# Memorandum

**To:** William Millar, CALIBRE Systems, Inc.
Melissa Shirley and Chase Carter, USACE-Mobile

**From:** Clayton Mokri
Tom Holmes

**Date:** July 8, 2025

**Re:** **Dunn Field West Round 2 Soil Sampling Memorandum**
**Defense Depot Memphis, Tennessee**

This *Dunn Field West Round 2 Soil Sampling Memorandum* (Rnd2 Memo) was prepared by HDR under Contract Number W91278-20-D-0024 W9127822F0208-0003, Confirmation Notice No. 4 for the United States Army Corps of Engineers (USACE), Mobile District. This Rnd2 Memo describes sampling activities, soil sample analytical results, and revised excavation limits for contaminated soil on Dunn Field West (DFW) at the former Defense Depot Memphis, Tennessee (DDMT). This Memo was prepared to address recommendations made in the *Dunn Field West Data Collection Memorandum* (DFW Memo; HDR, 2025) for the remedy cost estimate in the DFW Explanation of Significant Differences (ESD) currently in preparation.

## DFW DATA COLLECTION

The DFW Memo presented findings from an investigation conducted at DFW to further evaluate the extent of soil contamination for remedial action prior to property transfer. The investigation consisted of vegetation clearing, geophysical surveys (electromagnetic and electrical resistivity tomography), and soil sample collection from ten borings (SB-100 to SB-110) in October 2024. Soil samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), metals, pesticides, and polychlorinated biphenyls (PCBs). Geophysical surveys identified minor metallic anomalies, and soil borings targeted these areas to delineate contamination extent, with samples collected up to 35 feet below ground surface (bgs) and screened for VOCs using a photoionization detector (PID).

Analytical results identified VOCs, SVOCs and/or PAHs exceeding Dunn Field Record of Decision (CH2MHILL, 2004) Remedial Goals (RGs) in 17 samples collected from eight borings. Chlorinated VOCs (e.g., vinyl chloride, cis-1,2-dichloroethene) and other VOCs (e.g., trimethylbenzene) were detected above RGs with benzo(a)pyrene (BaP) detected above RGs only in surface samples. Lead and chromium were detected in one sample (SB-109-0) above 20 times the 40 Code of Federal Regulations (CFR) 261.24 toxicity characteristic (TC), which indicates the potential for this soil to be characterized as hazardous waste if disposed. No significant metallic debris was identified during geophysical investigation or soil sampling.

Recommendations in the DFW Memo include additional soil sampling at 0 and 5 bgs for VOCs and SVOCs to refine excavation boundaries presented in the DFW Memo and for toxicity characteristic leaching procedure (TCLP) analysis to evaluate disposal requirements.

## ADDITIONAL SAMPLING

### Drilling and Sampling Methods

Prior to sampling, HDR marked the boring locations and coordinated utility clearance through Tennessee One Call. Boring location coordinates were obtained using a GPS receiver capable of submeter accuracy; the locations and total depths are listed on Table 1 and depicted on Figure 1.

Samples were collected at twelve locations (SB-111 through SB-122) by HDR on April 1, 2025 using a 2.25-inch diameter hand auger. SB-111 through SB-113 were advanced to 5.5 feet below ground surface (bgs) and SB-114 through SB-122 were advanced to 0.5 feet bgs.

An HDR field geologist classified soil cores for SB-111 through SB-113 per the Unified Soil Classification System (USCS), documenting lithological changes, relative moisture, and water-bearing zones. Soil cores were screened for VOCs using a PID. Boring logs are provided in Appendix A.

Two soil samples were collected from SB-111 through SB-113, at the ground surface (0-0.5 feet bgs) and from the subsurface (5-5.5 feet bgs). Surface soil samples (0-0.5 feet bgs) were collected from borings SB-114 through SB-122. Soil samples were collected from each boring with laboratory-supplied TerraCore™ sampling kits for VOCs and one 16-ounce amber glass jar. Samples were stored in a cooler with ice and shipped for overnight delivery via FedEx to CT Laboratories LLC (CTL) in Baraboo Wisconsin. The soil samples were analyzed for the following:

- VOCs by Environmental Protection Agency (EPA) Method 8260C;
- SVOCs by EPA Method 8270D; and/or
- Chromium and lead via TCLP by EPA Method 6010C

Following sampling, each boring was abandoned by filling with soil cuttings generated from the boring and lightly compacting the soil in place.

Sample SB-109-0 (collected in October 2024) was reanalyzed by Sterling Labs for TCLP analysis of lead and chromium. TCLP analysis was performed by CTL on nearby samples SB-113, SB-114, SB-115, and SB-118.

### Equipment Decontamination and Management of Investigation Derived Waste

The hand auger was decontaminated prior to collecting each soil sample by scrubbing with a brush in an Alconox solution to remove soil and contaminants, followed by a tap water rinse. The hand auger was then allowed to air-dry before collecting the next sample. At the end of the day, a rinse blank sample was collected by pouring ASTM Type II water over the cleaned auger

and capturing the runoff in laboratory-supplied bottles for analysis to verify decontamination effectiveness.

The waste generated during investigation activities was classified as either non-investigative waste or investigation-derived waste (IDW). Non-investigative waste, such as packaging materials, personal protective equipment, disposable sampling supplies and other inert refuse, was collected, containerized, and placed in the solid waste container at the HDR field office for disposal at a municipal landfill. The IDW consisted of soil cuttings from the borings and wastewater from equipment decontamination.

Approximately 10 gallons of IDW water was transferred to the aboveground storage tank (AST) on Dunn Field for later testing and offsite disposal. Soil cuttings were returned to each boring after sampling.

## SOIL SAMPLE RESULTS

### Field Observations

Subsurface lithology consisted of fine-grained soils (silts and clays) from the surface to 5.5 feet bgs, the maximum depth explored. PID measurements and field observations did not identify contaminated material.

### Data Quality Evaluation

Analytical data from the sampling event were reviewed by the HDR Project Chemist based on guidelines in *DDMT Uniform Federal Policy – Quality Assurance Project Plan* (HDR, 2018) and *Dunn Field West Data Collection Work Plan* (HDR, 2024a). The complete analytical results for field and quality control (QC) samples, including data quality evaluation (DQE) flags, for VOCs and SVOCs are presented in Appendix B, Tables B-1 through B-2. The laboratory analytical reports are included in Appendix C (electronic copies only).

The data validation and usability report is provided in Appendix D. Analytical results were reported using limits of quantitation (LOQs) and limits of detection (LODs). Results reported below the LOQ but above the LOD were flagged “J” and considered an estimated result (unless overridden by other QC flags).

Analytical data from the event met project data quality objectives (DQOs) and were determined to be sufficient to delineate soil contamination. Data usability for each analyte group is summarized below.

- **Calibration Issues:** Tetrahydrofuran in SB-112-5-DFW was qualified UJ due to low second source recovery. Hexachlorocyclopentadiene, benzidine, benzo(g,h,i)perylene (14 samples), and benzoic acid, 2,4-dinitrophenol, pentachlorophenol, and 3,3’-dichlorobenzidine (3 samples) were qualified UJ or J- due to continuing calibration exceedances.
- **Blank Contamination:** Di-n-butylphthalate (1 sample), toluene (4 samples), and naphthalene (3 samples) were qualified J+ due to method or rinse blank detections. TCLP chromium and lead were qualified J+ in most samples due to method and rinse

blank detections. Tetrahydrofuran and naphthalene in the rinse blank were also qualified J+ due to calibration blank detections.

- **Laboratory Control Spike (LCS) and Surrogates:** Benzidine and hexachlorocyclopentadiene in all soils were qualified UJ due to low LCS recoveries. Base-neutral analytes in two samples were qualified UJ or J- due to low surrogate recoveries.
- **MS/MSD:** In SB-113-0-DFW, cis-1,2-dichloroethene was qualified J+, tetrachloroethene and trichloroethene as J-, and naphthalene as J due to MS/MSD recovery issues. Seventeen additional analytes were qualified J- or UJ for the same reason.
- **Field Duplicates:** m,p-xylenes, o-xylene, total xylenes, tetrachloroethene, 2-methylnaphthalene, fluoranthene, and pyrene were qualified J due to high RPDs between field duplicates.

### Analytical Results

Analytes detected above the LOQ in soil samples are summarized in Tables 2 and 3. Table 4 includes the complete TCLP chromium and lead results. Table 2 presents VOCs, including primary CVOCs (carbon tetrachloride, chloroform, cis-1,2-dichloroethene, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, tetrachloroethene (PCE), trichloroethene, trans-1,2-dichloroethene, and vinyl chloride) whether non-detect or detected above or below the LOQ and Other VOCs that are detected above the LOQ in at least one sample. RGs from the Dunn Field ROD, EPA Industrial RSLs, TC limits under 40 CFR 261.24 are included where applicable.

Volatile Organic Compounds (VOCs)

VOCs were analyzed in surface (0-0.5 feet bgs) and subsurface (5-5.5 feet bgs) samples from borings SB-111, SB-112, and SB-113. PCE was the only VOC detected above the loess-specific RG, present in both samples from SB-113. No VOCs exceeded EPA Industrial RSLs (Table 2)

Semi-Volatile Organic Compounds (SVOCs)

SVOCs, notably BaP, were detected above RGs and EPA Industrial RSLs in all surface soil samples (0-0.5 feet bgs). At 5 feet bgs, BaP exceeded both the RG and industrial RSL in SB-111 but was below RGs in SB-112 and SB-113 (Table 3).

TCLP Metals Analysis

TCLP analysis for lead and chromium was performed on samples SB-109, SB-113, SB-114, SB-115, and SB-118. Soluble lead or chromium were not detected above TC limits, indicating that the soil is unlikely to require hazardous waste transportation and disposal once excavated (Table 4).

## CONCLUSIONS

Results of the April 2025 Round 2 sample analyses require expansion of the DFW excavation boundaries shown in DFW Memo (HDR, 2025). The expanded excavation limits are shown on Figure 1.

TCLP analyses of lead and chromium indicate excavated soil is unlikely to require management as hazardous waste.

**Updated Proposed Excavation Areas**

- **Area A1:** Approximately 3,700 sq ft. Excavation to a depth of at least 5 ft bgs to address VOCs and SVOCs above RGs.
- **Area A2:** Approximately 4,630 sq ft. Excavation to 2 ft bgs is recommended to remove shallow soil with SVOCs above RGs.

Additional excavation, laterally and vertically, may be required confirmation sample analyses. The results of this excavation will be used to refine cost estimates for remedial action in the DFW ESD.

**REFERENCES**

CH2MHILL, 2004. *Memphis Depot Dunn Field Record of Decision, Defense Distribution Center (Memphis), Final.* Prepared for the U.S. Army Engineering and Support Center, Huntsville, Alabama. March 2004

HDR, 2018. *DDMT Uniform Federal Policy-Quality Assurance Project Plan, Environmental Restoration Support at Former Defense Depot Memphis, Tennessee, Revision 1*. Prepared for the U.S. Army Corps of Engineers, Mobile District. March.

HDR, 2025. *Dunn Field West Data Collection Memorandum,* Prepared for the U.S. Army Corps of Engineers, Mobile District. February 2025.

# Tables

TABLE 1
SOIL BORING DATA
DUNN FIELD WEST ROUND 2 SOIL SAMPLING MEMORANDUM
Defense Depot Memphis, Tennessee

| Boring ID | Date Completed | Northing (ft) | Easting (ft) | Total Boring Depth (ft, bgs) |
|---|---|---|---|---|
| SB-111 | 4/1/2025 | 280727.58 | 802065.06 | 5.5 |
| SB-112 | 4/1/2025 | 280700.81 | 802084.97 | 5.5 |
| SB-113 | 4/1/2025 | 280696.89 | 802050.71 | 5.5 |
| SB-114 | 4/1/2025 | 280674.28 | 802075.50 | 0.5 |
| SB-115 | 4/1/2025 | 280654.89 | 802068.82 | 0.5 |
| SB-116 | 4/1/2025 | 280640.20 | 802076.68 | 0.5 |
| SB-117 | 4/1/2025 | 280633.72 | 802062.76 | 0.5 |
| SB-118 | 4/1/2025 | 280655.84 | 802043.77 | 0.5 |
| SB-119 | 4/1/2025 | 280607.11 | 802067.40 | 0.5 |
| SB-120 | 4/1/2025 | 280578.97 | 802073.15 | 0.5 |
| SB-121 | 4/1/2025 | 280571.74 | 802063.82 | 0.5 |
| SB-122 | 4/1/2025 | 280560.01 | 802071.11 | 0.5 |

Notes:
ft feet
bgs below ground surface

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY, VOLATILE ORGANIC COMPOUNDS
DUNN FIELD WEST ADDITIONAL SAMPLING MEMORANDUM
Defense Depot Memphis, Tennessee

| | Location- Depth | USEPA Industrial Soil Regional Screening Level | Remediation Goal[1] | | SB-111-0 | SB-111-5 | SB-112-0 | SB-112-5 | SB-113-0 | SB-113-5 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | | | SB-111-0-DFW | SB-111-5-DFW | SB-112-0-DFW | SB-112-5-DFW | SB-113-0-DFW | SB-113-5-DFW |
| | Lab ID | | | | 1568822 | 1568823 | 1568820 | 1568821 | 1568828 | 1568830 |
| | Sample Date | | | | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 |
| **Primary CVOCs** | **Units** | | **LSV** | **TCLP X20k** | | | | | | |
| 1,1,2,2-Tetrachloroethane | µg/Kg | 2,700 | 11.2 | - | <1.2 U | <1 U | <1.1 U | <29 U | <1.4 U | <1.2 U |
| 1,1,2-Trichloroethane | µg/Kg | 630 | 62.7 | - | <1.2 U | <1 U | <1.1 U | <59 U | <1.4 U | <1.2 U |
| 1,1-Dichloroethene | µg/Kg | 2,000 | 150 | 14,000 | <1.2 U | <1 U | <1.1 U | <29 U | <1.4 U | <1.2 U |
| 1,2-Dichloroethane | µg/Kg | 2,000 | 32.9 | 10,000 | <1.2 U | <1 U | <1.1 U | <29 U | <1.4 U | <1.2 U |
| Carbon tetrachloride | µg/Kg | 2,900 | 215 | 10,000 | <1.2 U | <1 U | <1.1 U | <59 U | <1.4 U | <1.2 U |
| Chloroform | µg/Kg | 1,400 | 917 | 120,000 | <1.2 U | <1 U | <1.1 U | <59 U | <1.4 U | <1.2 U |
| cis-1,2-Dichloroethene | µg/Kg | 37,000 | 755 | - | <1.2 U | <1 U | <1.1 U | <59 U | 3.62 J+ | 18 |
| Methylene chloride | µg/Kg | 320,000 | 30.5 | - | <4.9 U | <4.1 U | <4.4 U | <59 U | <5.7 U | <4.9 U |
| Tetrachloroethene | µg/Kg | 39,000 | 180.6 | 14,000 | <1.2 U | <1 U | <1.1 U | <59 U | **273 J** | **400 J** |
| trans-1,2-Dichloroethene | µg/Kg | 30,000 | 1,520 | - | <1.2 U | <1 U | <1.1 U | <59 U | <1.4 U | 0.601 J |
| Trichloroethene | µg/Kg | 1,900 | 182 | 10,000 | <1.2 U | <1 U | <1.1 U | <59 U | 85 J | 114 J |
| Vinyl chloride | µg/Kg | 1,700 | 29.4 | 4,000 | <1.2 U | <1 U | <1.1 U | <59 U | <1.4 U | <1.2 U |
| **Other VOCs** | | | | | | | | | | |
| 2-Butanone | µg/Kg | 19,000,000 | 8,550 | - | 21 J | 15.3 J | 14.4 J | <590 U | 23.3 J | 19.6 J |
| Acetone | µg/Kg | 110,000,000 | 16,000 | - | 140 | 102 | 242 | <290 U | 187 | 131 |
| Benzene | µg/Kg | 5,100 | 18,420 | - | 0.613 J | 1.85 J | 0.78 J | <59 U | 0.58 J | 1.92 J |
| Carbon disulfide | µg/Kg | 350,000 | - | - | 8.33 | 1.34 J | 3.34 J | <120 U | 11.9 | 2.52 J |
| Cyclohexane | µg/Kg | 2,700,000 | - | - | <2.4 U | <2.1 U | <2.2 U | <59 U | 1.16 J | <2.4 U |
| Ethylbenzene | µg/Kg | 25,000 | 13,000 | - | <1.2 U | <1 U | <1.1 U | <29 U | <1.4 U | <1.2 U |
| m,p-Xylenes | µg/Kg | - | - | - | <2.4 U | 1.75 J | <2.2 U | <59 U | <2.8 U | 41.6 J |
| Naphthalene | µg/Kg | 8,600 | 188,000 | - | 254 | 151 | 465 | 12.4 J+ | 130 J- | 19 J+ |
| o-Xylene | µg/Kg | 280,000 | - | - | <1.2 U | 0.617 J | <1.1 U | <29 U | <1.4 U | 21.5 J |
| p-Isopropyltoluene | µg/Kg | 110,000 | - | - | <1.2 U | <1 U | 22.5 J | <29 U | <1.4 U | <1.2 U |
| Toluene | µg/Kg | 4,700,000 | 12,000 | - | 1.23 J+ | 1.75 J+ | 1.45 J+ | <59 U | 1.59 J+ | 3.97 |
| Total 1,2-Dichloroethene | µg/Kg | - | - | - | <1.2 U | <1 U | <1.1 U | <59 U | 3.62 | 18.6 |
| Total Xylenes | µg/Kg | 250,000 | 210,000 | - | <2.4 U | 2.37 J | <2.2 U | <59 U | <2.8 U | 63.1 J |

Notes:
1) Remediation Goals established in the Dunn Field Record of Decision (CH2MHILL, 2004)
2) Results above LSV or FDSV shown in **red bold**. Results above RSL in **black bold**.
3) Analytical results, whether non-detect or detected above or below the LOD,
RSL: USEPA industrial regional screening level with default parameters, 1x10-6
USEPA: United States Environmental Protection Agency
µg/kg: micrograms per kilogram
LOD: Level of Detection
LSV: Loess Specific Values
FDSV: Fluvial Deposit Specific Values.
- : Not Listed
ft bgs: feet below ground surface to top of the sa
TCLP: Toxicity Characteristic Leaching Procedure. Values which exceed 20 times (20x) the TCLP may be classified as hazardous waste per 40 CFR 261.24.
U: The analyte was not detected and was reported as less than the LOD; the LOD has been adjusted for any dilution or concentration of the sample.
J: The reported result was an estimated value with an unknown bias.
J+ The result was an estimated quantity and may be biased high.
J-: The result was an estimated quantity and may be biased low.
Method:
8260B: Volatile Organic Compounds

TABLE 3
SOIL ANALYTICAL RESULTS SUMMARY, SEMIVOLATILE ORGANIC COMPOUNDS
DUNN FIELD WEST ROUND 2 SOIL SAMPLING MEMORANDUM
Defense Depot Memphis, Tennessee

| | **Location-Depth** | **USEPA Industrial Soil Regional Screening Level** | **Remediation Goal** | SB-111-0 | SB-111-5 | SB-112-0 | SB-112-5 | SB-113-0 | SB-113-5 | SB-114-0 | SB-115-0 | SB-116-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Sample ID** | | | SB-111-0-DFW | SB-111-5-DFW | SB-112-0-DFW | SB-112-5-DFW | SB-113-0-DFW | SB-113-5-DFW | SB-114-0-DFW | SB-115-0-DFW | SB-116-0-DFW |
| | **Lab ID** | | | 1568822 | 1568823 | 1568820 | 1568821 | 1568828 | 1568830 | 1568834 | 1568836 | 1568838 |
| | **Sample Date** | | | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 |
| **Analyte** | **Units** | | | | | | | | | | | |
| 1-Methylnaphthalene | µg/Kg | 77 | - | **327 J-** | 68.7 J | **814 J** | <110 U | **110 J** | **178 J** | **676 J-** | **94.4 J** | **1140 J** |
| 2-Methylnaphthalene | µg/Kg | 300,000 | - | 485 J- | 94.5 J | 1080 J | <110 U | 144 J | 274 J | 846 J- | 92 J | 1760 J |
| Acenaphthene | µg/Kg | 4,500,000 | 29,219,000 | 3960 J- | 702 | 9350 | <230 U | 1320 J- | <240 U | 8540 J- | 1200 | 12600 |
| Acenaphthylene | µg/Kg | - | - | 94.8 J- | <110 U | <1100 U | <110 U | <120 U | <120 U | <1200 UJ | 203 J | <1100 U |
| Anthracene | µg/Kg | 23,000,000 | 100,000,000 | 5660 J- | 1070 | 15400 | <110 U | 2020 J- | 55.9 J | 14200 J- | 2060 | 20900 |
| Benzo(a)anthracene | µg/Kg | 21,000 | 21,100 | **22400 J-** | 3630 | **47300** | 106 J | 9110 J | 170 J | **48100 J-** | 10300 | **49200** |
| Benzo(a)pyrene | µg/Kg | 2,100 | 2,110 | **21700 J-** | **3670** | **45400** | 91.4 J | **9050 J** | 196 J | **46700 J-** | **10600** | **45500** |
| Benzo(b)fluoranthene | µg/Kg | 21,000 | 21,100 | **33300 J-** | 6260 | **90000** | 148 J | 13900 J | 330 | **92400 J-** | 16100 | **75400** |
| Benzo(g,h,i)perylene | µg/Kg | - | - | 10600 J- | 1370 J- | 12000 | 68.1 J- | 3180 J- | 120 J- | 12100 J- | 2630 J- | 11900 J- |
| Benzo(k)fluoranthene | µg/Kg | 210,000 | 211,000 | 11600 J- | 2010 | 26800 | <110 U | 3280 | 111 J | 28500 J- | 4590 | 28800 |
| Benzoic acid | µg/Kg | 330,000,000 | - | <1100 U | <1000 U | <10000 UJ | <1000 U | <1100 U | <1100 U | <10000 UJ | <1200 U | <10000 U |
| Bis(2-ethylhexyl)phthalate | µg/Kg | 160,000 | 1,231,000 | 158 J- | <110 U | <1100 U | <110 U | 108 J | <120 U | <1200 UJ | 104 J | <1100 U |
| Carbazole | µg/Kg | - | 862,000 | 9180 J- | 1310 | 17400 | <230 U | 2650 J- | <240 U | 16000 J- | 2530 | 21900 |
| Chrysene | µg/Kg | 2,100,000 | 2,110,000 | 23500 J- | 4010 | 48200 | 115 J | 9770 J- | 188 J | 49300 J- | 11100 | 47500 |
| Dibenzo(a,h)anthracene | µg/Kg | 2,100 | 2,110 | **2890 J-** | 377 | **3710** | <110 U | 828 J- | <120 U | **3950 J-** | 750 | **3680** |
| Dibenzofuran | µg/Kg | 120,000 | - | 1880 J- | 304 | 4480 | <110 U | 572 | <120 U | 3690 J- | 491 | 6660 |
| Fluoranthene | µg/Kg | 3,000,000 | 22,000,000 | 58100 J- | 10200 | 161000 | 306 | 23400 J | 477 J | 157000 J- | 26100 | 170000 |
| Fluorene | µg/Kg | 3,000,000 | 26,281,000 | 2900 J- | 483 | 6940 | <110 U | 902 | <120 U | 6080 J- | 909 | 9930 |
| Indeno(1,2,3-cd)pyrene | µg/Kg | 21,000 | 21,100 | 10600 J- | 1380 | 13100 | 56.6 J | 3140 J- | 87.3 J | 13000 J- | 2740 | 12900 |
| Naphthalene | µg/Kg | 8,600 | 188,000 | 921 J- | 202 J | 2180 J | <110 U | 244 | 115 J | 1530 J- | 186 J | 2840 |
| Pentachlorophenol | µg/Kg | 4,000 | 27,000 | <590 U | <560 U | <5700 UJ | <570 U | <600 U | 510 J | <5800 UJ | <650 U | <5700 U |
| Phenanthrene | µg/Kg | - | - | 42200 J- | 6720 | 112000 | 159 J | 15100 J | 369 | 101000 J- | 15700 | 112000 |
| Pyrene | µg/Kg | 2,300,000 | 29,126,000 | 42100 J- | 7350 | 113000 | 214 J | 17000 J | 361 J | 112000 J- | 19400 | 99600 |

Notes:

1) Remediation Goals established in the Dunn Field Record of Decision (CH2MHILL, 2004)

2) Results above Remediation Goal shown in **red bold**. Results above RSL in **black bold**.

3) Analytical results, whether non-detect or detected above or below the LOD, are shown for analytes that are detected above the LOD in at least one sample.

RSL: USEPA industrial regional screening level with default parameters, 1x10-6 target cancer risk, and 0.1 noncancer target hazard quotient. November 2024

USEPA: United States Environmental Protection Agency

µg/kg: micrograms per kilogram

LOD: Level of Detection

- : Not Listed

ft bgs: feet below ground surface to top of the sample

DQE Flags:

U: The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

J: The reported result was an estimated value with an unknown bias.

J+ The result was an estimated quantity, but the result may be biased high.

J-: The result was an estimated quantity, but the result may be biased low.

UJ: The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.

Method:

8270E: Semivolatile Organic Compounds

TABLE 3
SOIL ANALYTICAL RESULTS SUMMARY, SEMIVOLATILE ORGANIC COMPOUNDS
DUNN FIELD WEST ROUND 2 SOIL SAMPLING MEMORANDUM
Defense Depot Memphis, Tennessee

| | **Location-Depth** | **USEPA Industrial Soil Regional Screening Level** | **Remediation Goal** | SB-117-0 | SB-118-0 | SB-119-0 | SB-120-0 | SB-121-0 | SB-122-0 |
|---|---|---|---|---|---|---|---|---|---|
| | **Sample ID** | | | SB-117-0-DFW | SB-118-0-DFW | SB-119-0-DFW | SB-120-0-DFW | SB-121-0-DFW | SB-122-0-DFW |
| | **Lab ID** | | | 1568841 | 1568839 | 1568842 | 1568843 | 1568845 | 1568844 |
| | **Sample Date** | | | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 |
| **Analyte** | **Units** | | | | | | | | |
| 1-Methylnaphthalene | µg/Kg | 77 | - | **2220 J** | 68.8 J | **1520 J** | **91 J** | 43.5 J | **78.7 J** |
| 2-Methylnaphthalene | µg/Kg | 300,000 | - | 3570 | 83.1 J | 2350 J | 119 J | 50.7 J | 90 J |
| Acenaphthene | µg/Kg | 4,500,000 | 29,219,000 | 23500 | 710 | 13400 | 1070 | 577 | 1010 |
| Acenaphthylene | µg/Kg | - | - | <1100 U | <120 U | <1200 U | 66.1 J | <120 U | 149 J |
| Anthracene | µg/Kg | 23,000,000 | 100,000,000 | 34100 | 972 | 24300 | 1930 | 1090 | 1820 |
| Benzo(a)anthracene | µg/Kg | 21,000 | 21,100 | **104000** | 3290 | **79600** | 7070 | 3540 | 8210 |
| Benzo(a)pyrene | µg/Kg | 2,100 | 2,110 | **97100** | **3120** | **56400** | **6830** | **3420** | **7800** |
| Benzo(b)fluoranthene | µg/Kg | 21,000 | 21,100 | **149000** | 4960 | **108000** | 10600 | 6100 | 11500 |
| Benzo(g,h,i)perylene | µg/Kg | - | - | 19300 J- | 1520 J- | 15800 J- | 1690 J- | 908 J- | 1860 J- |
| Benzo(k)fluoranthene | µg/Kg | 210,000 | 211,000 | 41200 | 1740 | 32600 | 3500 | 2170 | 3810 |
| Benzoic acid | µg/Kg | 330,000,000 | - | <10000 U | 506 J | <11000 U | <1000 U | 558 J | <1000 U |
| Bis(2-ethylhexyl)phthalate | µg/Kg | 160,000 | 1,231,000 | <1100 U | <120 U | <1200 U | 90.7 J | 79.4 J | 103 J |
| Carbazole | µg/Kg | - | 862,000 | 38400 | 1250 | 25000 | 2140 | 1170 | 2000 |
| Chrysene | µg/Kg | 2,100,000 | 2,110,000 | 108000 | 3600 | 59700 | 7460 | 3600 | 8520 |
| Dibenzo(a,h)anthracene | µg/Kg | 2,100 | 2,110 | **6050** | 407 | **5010** | 504 | 278 | 588 |
| Dibenzofuran | µg/Kg | 120,000 | - | 12700 | 264 | 7360 | 502 | 230 J | 420 |
| Fluoranthene | µg/Kg | 3,000,000 | 22,000,000 | 327000 | 9300 | 202000 | 18500 | 9730 | 20500 |
| Fluorene | µg/Kg | 3,000,000 | 26,281,000 | 18300 | 402 | 11600 | 845 | 452 | 718 |
| Indeno(1,2,3-cd)pyrene | µg/Kg | 21,000 | 21,100 | **21100** | 1470 | 17000 | 1800 | 1000 | 2020 |
| Naphthalene | µg/Kg | 8,600 | 188,000 | 6900 | 86.6 J | 4410 | 188 J | 80.5 J | 179 J |
| Pentachlorophenol | µg/Kg | 4,000 | 27,000 | <5600 U | <610 U | <6200 U | <560 U | <620 U | <560 U |
| Phenanthrene | µg/Kg | - | - | 241000 | 5380 | 149000 | 12500 | 5280 | 12200 |
| Pyrene | µg/Kg | 2,300,000 | 29,126,000 | 206000 | 6000 | 144000 | 13400 | 6890 | 14800 |

Notes:

1) Remediation Goals established in the Dunn Field Record of Decision (CH2MHILL, 2004)

2) Results above Remediation Goal shown in **red bold**. Results above RSL in **black bold**.

3) Analytical results, whether non-detect or detected above or below the LOD, are shown for analytes that are detected above the LOD in at least one sample.

RSL: USEPA industrial regional screening level with default parameters, 1x10-6 target cancer risk, and 0.1 noncancer target hazard quotient. November 2024

USEPA: United States Environmental Protection Agency

µg/kg: micrograms per kilogram

LOD: Level of Detection

- : Not Listed

ft bgs: feet below ground surface to top of the sample

DQE Flags:

U: The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

J: The reported result was an estimated value with an unknown bias.

J+ The result was an estimated quantity, but the result may be biased high.

J-: The result was an estimated quantity, but the result may be biased low.

UJ: The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.

Method:

8270E: Semivolatile Organic Compounds

TABLE 4
SOIL ANALYTICAL RESULTS TCLP METALS
DUNN FIELD WEST ROUND 2 SOIL SAMPLING MEMORANDUM
Defense Depot Memphis, Tennessee

| | **Location-Depth** | Toxicity Characteristic (mg/L) | SB-109-0 | SB-113-0 | SB-114-0 | SB-115-0 | SB-118-0 |
|---|---|---|---|---|---|---|---|
| | **Sample ID** | | SB-109-0-DFW | SB-113-0-DFW | SB-114-0-DFW | SB-115-0-DFW | SB-118-0-DFW |
| | **Lab ID** | | O24J0276-12 | 1568829 | 1568835 | 1568837 | 1568840 |
| | **Sample Date** | | 10/1/2024 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 |
| **Analyte** | **Units** | | | | | | |
| Chromium | mg/L | 5 | 0.0825 | 0.0033 J+ | 0.0046 J+ | <0.0025 U | 0.0035 J+ |
| Lead | mg/L | 5 | 2.91 | 0.0021 J+ | 0.014 J+ | 0.036 J+ | 0.0092 J+ |

Notes:

mg/L: milligrams per liter

DQE Flags:

µg/kg: micrograms per kilogram

LOD: Level of Detection

DQE Flags:

U: The analyte was not detected and was reported as less than the LOD. The LOD has been adjusted for any dilution or concentration of the sample.

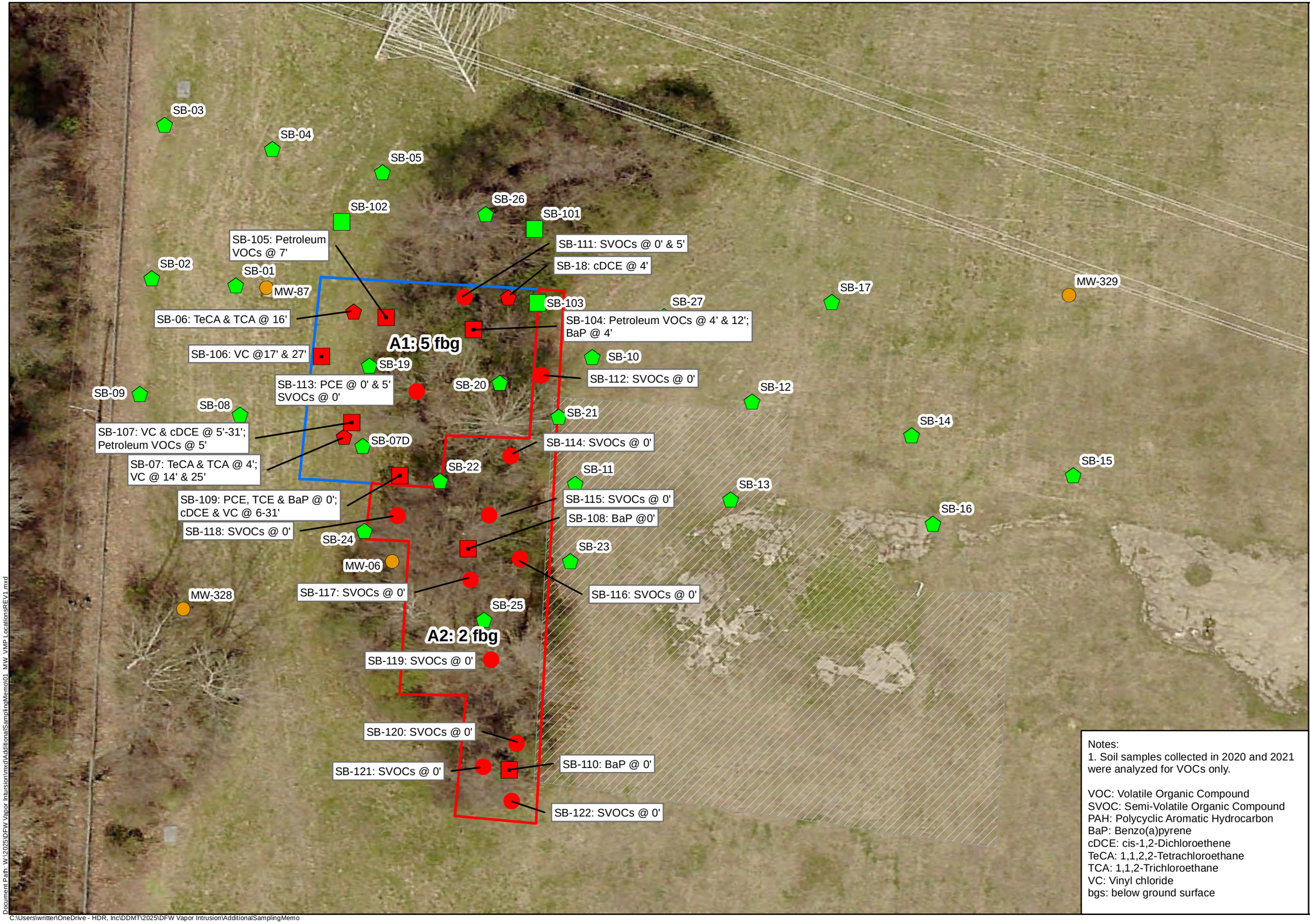
J+ The result was an estimated quantity and may be biased high.

Toxicity Characteristic used to determine whether the sampled material may be classified as hazardous waste per 40 CFR 261.24.

Method:

6010C\3010A

# Figures




Notes:
1. Soil samples collected in 2020 and 2021 were analyzed for VOCs only.

VOC: Volatile Organic Compound
SVOC: Semi-Volatile Organic Compound
PAH: Polycyclic Aromatic Hydrocarbon
BaP: Benzo(a)pyrene
cDCE: cis-1,2-Dichloroethene
TeCA: 1,1,2,2-Tetrachloroethane
TCA: 1,1,2-Trichloroethane
VC: Vinyl chloride
bgs: below ground surface

# Figure 1

## Dunn Field West Expanded Soil Excavation Areas

Dunn Field West Round 2
Soil Sampling Memorandum

Defense Depot
Memphis, Tennessee

### Legend

- April 2025 Exceedance
- 2024 No Exceedance
- 2024 Exceedance
- 2020/2021 No Exceedance
- 2020/2021 Exceedance
- Fluvial Well, Background
- Fluvial Well, DF West
- Excavation Area A1 to 5 ft bgs
- Excavation Area A2 to 2 ft bgs
- TA-3 Loess Excavation Area

N
W E
S

0 25 50
Feet

Projection: NAD 1927 StatePlane Tennessee
Units: Feet, Elevation Units: Feet, NAVD88

**Date:** 5/5/2025
**Edition:** Rev 0

Document Path: W:\2025\DFW Vapor Intrusion\mxd\AdditionalSamplingMemo\01_MW_VMP LocationsREV1.mxd

C:\Users\written\OneDrive - HDR, Inc\DDMT\2025\DFW Vapor Intrusion\AdditionalSamplingMemo

# Appendix A

## Soil Boring Logs

# BORING ID SB-111
# TOTAL DEPTH (FT. BGS) 5.5

**PROJECT:** DFW Investigation
**PROJECT NUMBER:** 10351615
**SITE LOCATION:** DFW
**TASK MANAGER:** C. Mokri
**LOGGED BY:** C. Hosmer
**DATE STARTED:** 4/1/25
**DATE COMPLETED:** 4/1/25

**DRILLING CONTRACTOR:** HDR
**DRILLER:** M. Papula
**DRILLING DRILLING METHOD/RIG:** Hand Auger
**HOLE DIAMETER (IN):** 2.25
**SURFACE ELEVATION (NAVD):** Not Measured
**DEPTH TO WATER (ft. btoc):** Not Encountered
**BOREHOLE USE:** Soil Sampling

**NOTES:** PID measurement indicated where greater than 0

| DEPTH (ft) | SAMPLE TYPE NUMBER | Environmental Data PID (ppm) | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION |
|---|---|---|---|---|---|
| 0 | GB SB-111-0-DFW | | ML | | SANDY SILT, (ML) 5YR 3/3 dark reddish brown, medium grained, moist, organics, some fill |
| 3.5 | | | SM | | SILTY SAND, (SM) 5YR 4/3 reddish brown, medium grained, moist, organics, some fill |
| 5.5 | GB SB-111-5-DFW | | | | Bottom of borehole at 5.5 feet. |

**CREATED BY:** C. Mokri
**CHECKED BY:** T. Holmes

# BORING ID SB-112
# TOTAL DEPTH (FT. BGS) 5.5

**PROJECT:** DFW Investigation
**PROJECT NUMBER:** 10351615
**SITE LOCATION:** DFW
**TASK MANAGER:** C. Mokri
**LOGGED BY:** C. Hosmer
**DATE STARTED:** 4/1/25
**DATE COMPLETED:** 4/1/25

**DRILLING CONTRACTOR:** HDR
**DRILLER:** M. Papula
**DRILLING DRILLING METHOD/RIG:** Hand Auger
**HOLE DIAMETER (IN):** 2.25
**SURFACE ELEVATION (NAVD):** Not Measured
**DEPTH TO WATER (ft. btoc):** Not Encountered
**BOREHOLE USE:** Soil Sampling

**NOTES:** PID measurement indicated where greater than 0

| DEPTH (ft) | SAMPLE TYPE NUMBER | Environmental Data PID (ppm) | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION |
|---|---|---|---|---|---|
| 0 | GB SB-112-0-DFW | | ML | | SANDY SILT, (ML) tannish brown, medium grained, moist, trace clay, trace organics, some fill |
| 5.0 | GB SB-112-5-DFW | | ML | | SILT, (ML) brown, medium grained, moist, trace clay, trace organics |
| 5.5 | | | | | Bottom of borehole at 5.5 feet. |

**CREATED BY:** C. Mokri

**CHECKED BY:** T. Holmes

# BORING ID SB-113
# TOTAL DEPTH (FT. BGS) 5.5

**PROJECT:** DFW Investigation
**PROJECT NUMBER:** 10351615
**SITE LOCATION:** DFW
**TASK MANAGER:** C. Mokri
**LOGGED BY:** C. Hosmer
**DATE STARTED:** 4/1/25
**DATE COMPLETED:** 4/1/25

**DRILLING CONTRACTOR:** HDR
**DRILLER:** M. Papula
**DRILLING DRILLING METHOD/RIG:** Hand Auger
**HOLE DIAMETER (IN):** 2.25
**SURFACE ELEVATION (NAVD):** Not Measured
**DEPTH TO WATER (ft. btoc):** Not Encountered
**BOREHOLE USE:** Soil Sampling

**NOTES:** PID measurement indicated where greater than 0

| DEPTH (ft) | SAMPLE TYPE NUMBER | Environmental Data PID (ppm) | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION |
|---|---|---|---|---|---|
| 0 | GB SB-113-0-DFW | | ML | | SANDY SILT, (ML) tannish brown, medium grained, moist, trace clay, some fill |
| 4.0 | | | ML | | SANDY SILT, (ML) dark tannish brown, medium grained, dry to moist, trace clay |
| 5.5 | GB SB-113-5-DFW | | | | Bottom of borehole at 5.5 feet. |

**CREATED BY:** C. Mokri
**CHECKED BY:** T. Holmes

# Appendix B

## Complete Results

TABLE B-1
SOIL ANALYTICAL RESULTS, VOLATILE ORGANIC COMPOUNDS
DUNN FIELD WEST ROUND 2 SOIL SAMPLING MEMORANDUM
Defense Depot Memphis, Tennessee

| | Location-Depth | | | SB-111-0 | SB-111-5 | SB-112-0 | SB-112-5 |
|---|---|---|---|---|---|---|---|
| | Sample ID | | | SB-111-0-DFW | SB-111-5-DFW | SB-112-0-DFW | SB-112-5-DFW |
| | Lab ID | USEPA Industrial Soil | | 1568822 | 1568823 | 1568820 | 1568821 |
| | Sample Date | Regional | Remediation | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 |
| Analyte | Units | Screening Level | Goal | | | | |
| 1,1,1,2-Tetrachloroethane | µg/Kg | 8,800 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,1,1-Trichloroethane | µg/Kg | 3,600,000 | 2,000 | 1.2 U | 1 U | 1.1 U | 59 U |
| 1,1,2,2-Tetrachloroethane | µg/Kg | 2,700 | 11 | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,1,2-Trichloroethane | µg/Kg | 630 | 63 | 1.2 U | 1 U | 1.1 U | 59 U |
| 1,1-Dichloroethane | µg/Kg | 16,000 | 23,000 | 1.2 U | 1 U | 1.1 U | 59 U |
| 1,1-Dichloroethene | µg/Kg | 2,000 | 150 | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,1-Dichloropropene | µg/Kg | NE | NE | 1.2 U | 1 U | 1.1 U | 59 U |
| 1,2,3-Trichlorobenzene | µg/Kg | 93,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,2,3-Trichloropropane | µg/Kg | 110 | NE | 2.4 U | 2.1 U | 2.2 U | 59 U |
| 1,2,4-Trichlorobenzene | µg/Kg | 26,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,2,4-Trimethylbenzene | µg/Kg | 180,000 | 1,260 | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,2-Dibromo-3-chloropropane | µg/Kg | 64 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,2-Dibromoethane | µg/Kg | 160 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,2-Dichlorobenzene | µg/Kg | 930,000 | 17,000 | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,2-Dichloroethane | µg/Kg | 2,000 | 33 | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,2-Dichloropropane | µg/Kg | 6,600 | NE | 1.2 U | 1 U | 1.1 U | 59 U |
| 1,3,5-Trimethylbenzene | µg/Kg | 150,000 | 1,240 | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,3-Dichlorobenzene | µg/Kg | NE | 360 | 1.2 U | 1 U | 1.1 U | 29 U |
| 1,3-Dichloropropane | µg/Kg | 2,300,000 | NE | 1.2 U | 1 U | 1.1 U | 59 U |
| 1,4-Dichlorobenzene | µg/Kg | 11,000 | 2,000 | 1.2 U | 1 U | 1.1 U | 29 U |
| 2,2-Dichloropropane | µg/Kg | NE | NE | 1.2 U | 1 U | 1.1 U | 59 U |
| 2-Butanone | µg/Kg | 19,000,000 | 8,550 | 21 J | 15.3 J | 14.4 J | 590 U |
| 2-Chlorotoluene | µg/Kg | 2,300,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| 2-Hexanone | µg/Kg | 130,000 | NE | 12 U | 10 U | 11 U | 290 U |
| 4-Chlorotoluene | µg/Kg | 2,300,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| 4-Methyl-2-pentanone | µg/Kg | 14,000,000 | NE | 12 U | 10 U | 11 U | 590 U |
| Acetone | µg/Kg | 110,000,000 | 16,000 | 140 | 102 | 242 | 290 U |
| Acrolein | µg/Kg | 60 | NE | 6.1 U | 5.1 U | 5.6 U | 290 U |
| Acrylonitrile | µg/Kg | 1,100 | NE | 6.1 U | 5.1 U | 5.6 U | 290 U |
| Benzene | µg/Kg | 5,100 | 18,420 | 0.613 J | 1.85 J | 0.78 J | 59 U |
| Bromobenzene | µg/Kg | 180,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| Bromochloromethane | µg/Kg | 63,000 | NE | 1.2 U | 1 U | 1.1 U | 59 U |
| Bromodichloromethane | µg/Kg | 1,300 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| Bromoform | µg/Kg | 86,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| Bromomethane | µg/Kg | 3,000 | 200 | 4.9 U | 4.1 U | 4.4 U | 120 U |
| Carbon disulfide | µg/Kg | 350,000 | NE | 8.33 | 1.34 J | 3.34 J | 120 U |
| Carbon tetrachloride | µg/Kg | 2,900 | 215 | 1.2 U | 1 U | 1.1 U | 59 U |
| Chlorobenzene | µg/Kg | 130,000 | 1,000 | 1.2 U | 1 U | 1.1 U | 29 U |
| Chloroethane | µg/Kg | 2,300,000 | NE | 2.4 U | 2.1 U | 2.2 U | 120 U |
| Chloroform | µg/Kg | 1,400 | 917 | 1.2 U | 1 U | 1.1 U | 59 U |
| Chloromethane | µg/Kg | 46,000 | 82 | 2.4 U | 2.1 U | 2.2 U | 59 U |
| cis-1,2-Dichloroethene | µg/Kg | 37,000 | 755 | 1.2 U | 1 U | 1.1 U | 59 U |
| cis-1,3-Dichloropropene | µg/Kg | NE | NE | 1.2 U | 1 U | 1.1 U | 59 U |
| Cyclohexane | µg/Kg | 2,700,000 | NE | 2.4 U | 2.1 U | 2.2 U | 59 U |
| Dibromochloromethane | µg/Kg | 39,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| Dibromomethane | µg/Kg | 9,900 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| Dichlorodifluoromethane | µg/Kg | 37,000 | NE | 1.2 U | 1 U | 1.1 U | 59 U |
| Ethylbenzene | µg/Kg | 25,000 | 13,000 | 1.2 U | 1 U | 1.1 U | 29 U |
| Isopropylbenzene | µg/Kg | 990,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| m,p-Xylenes | µg/Kg | NE | NE | 2.4 U | 1.75 J | 2.2 U | 59 U |
| Methyl tert-butyl ether | µg/Kg | 210,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| Methylene chloride | µg/Kg | 320,000 | 31 | 4.9 U | 4.1 U | 4.4 U | 59 U |
| Naphthalene | µg/Kg | 8,600 | 188,000 | 254 | 151 | 465 | 12.4 J+ |
| n-Butylbenzene | µg/Kg | 5,800,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| n-Propylbenzene | µg/Kg | 2,400,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| o-Xylene | µg/Kg | 280,000 | NE | 1.2 U | 0.617 J | 1.1 U | 29 U |
| p-Isopropyltoluene | µg/Kg | 110,000 | NE | 1.2 U | 1 U | 22.5 J | 29 U |
| sec-Butylbenzene | µg/Kg | 12,000,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| Styrene | µg/Kg | 3,500,000 | 4,000 | 1.2 U | 1 U | 1.1 U | 29 U |
| tert-Butylbenzene | µg/Kg | 12,000,000 | NE | 1.2 U | 1 U | 1.1 U | 29 U |
| Tetrachloroethene | µg/Kg | 39,000 | 181 | 1.2 U | 1 U | 1.1 U | 59 U |
| Tetrahydrofuran | µg/Kg | 9,500,000 | NE | 12 U | 10 U | 11 U | 1200 UJ |
| Toluene | µg/Kg | 4,700,000 | 12,000 | 1.23 J+ | 1.75 J+ | 1.45 J+ | 59 U |
| Total 1,2-Dichloroethene | µg/Kg | NE | NE | 1.2 U | 1 U | 1.1 U | 59 U |
| Total Xylenes | µg/Kg | 250,000 | 210,000 | 2.4 U | 2.37 J | 2.2 U | 59 U |
| trans-1,2-Dichloroethene | µg/Kg | 30,000 | 1,520 | 1.2 U | 1 U | 1.1 U | 59 U |
| trans-1,3-Dichloropropene | µg/Kg | NE | NE | 1.2 U | 1 U | 1.1 U | 59 U |
| Trichloroethene | µg/Kg | 1,900 | 182 | 1.2 U | 1 U | 1.1 U | 59 U |
| Trichlorofluoromethane | µg/Kg | 35,000,000 | NE | 2.4 U | 2.1 U | 2.2 U | 59 U |
| Vinyl acetate | µg/Kg | 380,000 | NE | 12 U | 10 U | 11 U | 290 U |
| Vinyl chloride | µg/Kg | 1,700 | 29 | 1.2 U | 1 U | 1.1 U | 59 U |

Notes:
µg/Kg: micrograms per kilogram
NE: Screening level not established
U: The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
UJ: The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
J: The reported result was an estimated value with an unknown bias.
J+ The result was an estimated quantity, but the result may be biased high.
J-: The result was an estimated quantity, but the result may be biased low.

TABLE B-1
SOIL ANALYTICAL RESULTS, VOLATILE ORGANIC COMPOUNDS
DUNN FIELD WEST ROUND 2 SOIL SAMPLING MEMORANDUM
Defense Depot Memphis, Tennessee

| | Location-Depth | | | SB-113-0 | SB-113-5 | SB-113-5 |
|---|---|---|---|---|---|---|
| | Sample ID | | | SB-113-0-DFW | SB-113-5-DFW | DUP-1 |
| | Lab ID | USEPA Industrial Soil | | 1568828 | 1568830 | 1568846 |
| | Sample Date | Regional | Remediation | 4/1/2025 | 4/1/2025 | 4/1/2025 |
| **Analyte** | **Units** | **Screening Level** | **Goal** | | | |
| 1,1,1,2-Tetrachloroethane | µg/Kg | 8,800 | NE | 1.4 U | 1.2 U | 1.2 U |
| 1,1,1-Trichloroethane | µg/Kg | 3,600,000 | 2,000 | 1.4 U | 1.2 U | 1.2 U |
| 1,1,2,2-Tetrachloroethane | µg/Kg | 2,700 | 11 | 1.4 U | 1.2 U | 1.2 U |
| 1,1,2-Trichloroethane | µg/Kg | 630 | 63 | 1.4 U | 1.2 U | 1.2 U |
| 1,1-Dichloroethane | µg/Kg | 16,000 | 23,000 | 1.4 U | 1.2 U | 1.2 U |
| 1,1-Dichloroethene | µg/Kg | 2,000 | 150 | 1.4 U | 1.2 U | 1.2 U |
| 1,1-Dichloropropene | µg/Kg | NE | NE | 1.4 U | 1.2 U | 1.2 U |
| 1,2,3-Trichlorobenzene | µg/Kg | 93,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| 1,2,3-Trichloropropane | µg/Kg | 110 | NE | 2.8 U | 2.4 U | 2.4 U |
| 1,2,4-Trichlorobenzene | µg/Kg | 26,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| 1,2,4-Trimethylbenzene | µg/Kg | 180,000 | 1,260 | 1.4 U | 1.2 U | 1.2 U |
| 1,2-Dibromo-3-chloropropane | µg/Kg | 64 | NE | 1.4 U | 1.2 U | 1.2 U |
| 1,2-Dibromoethane | µg/Kg | 160 | NE | 1.4 U | 1.2 U | 1.2 U |
| 1,2-Dichlorobenzene | µg/Kg | 930,000 | 17,000 | 1.4 U | 1.2 U | 1.2 U |
| 1,2-Dichloroethane | µg/Kg | 2,000 | 33 | 1.4 U | 1.2 U | 1.2 U |
| 1,2-Dichloropropane | µg/Kg | 6,600 | NE | 1.4 U | 1.2 U | 1.2 U |
| 1,3,5-Trimethylbenzene | µg/Kg | 150,000 | 1,240 | 1.4 U | 1.2 U | 1.2 U |
| 1,3-Dichlorobenzene | µg/Kg | NE | 360 | 1.4 U | 1.2 U | 1.2 U |
| 1,3-Dichloropropane | µg/Kg | 2,300,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| 1,4-Dichlorobenzene | µg/Kg | 11,000 | 2,000 | 1.4 U | 1.2 U | 1.2 U |
| 2,2-Dichloropropane | µg/Kg | NE | NE | 1.4 U | 1.2 U | 1.2 U |
| 2-Butanone | µg/Kg | 19,000,000 | 8,550 | 23.3 J | 19.6 J | 28.2 |
| 2-Chlorotoluene | µg/Kg | 2,300,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| 2-Hexanone | µg/Kg | 130,000 | NE | 14 U | 12 U | 12 U |
| 4-Chlorotoluene | µg/Kg | 2,300,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| 4-Methyl-2-pentanone | µg/Kg | 14,000,000 | NE | 14 U | 12 U | 12 U |
| Acetone | µg/Kg | 110,000,000 | 16,000 | 187 | 131 | 141 |
| Acrolein | µg/Kg | 60 | NE | 7.1 U | 6.1 U | 5.9 U |
| Acrylonitrile | µg/Kg | 1,100 | NE | 7.1 U | 6.1 U | 5.9 U |
| Benzene | µg/Kg | 5,100 | 18,420 | 0.58 J | 1.92 J | 1.88 J |
| Bromobenzene | µg/Kg | 180,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| Bromochloromethane | µg/Kg | 63,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| Bromodichloromethane | µg/Kg | 1,300 | NE | 1.4 U | 1.2 U | 1.2 U |
| Bromoform | µg/Kg | 86,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| Bromomethane | µg/Kg | 3,000 | 200 | 5.7 U | 4.9 U | 4.8 U |
| Carbon disulfide | µg/Kg | 350,000 | NE | 11.9 | 2.52 J | 1.29 J |
| Carbon tetrachloride | µg/Kg | 2,900 | 215 | 1.4 U | 1.2 U | 1.2 U |
| Chlorobenzene | µg/Kg | 130,000 | 1,000 | 1.4 U | 1.2 U | 1.2 U |
| Chloroethane | µg/Kg | 2,300,000 | NE | 2.8 U | 2.4 U | 2.4 U |
| Chloroform | µg/Kg | 1,400 | 917 | 1.4 U | 1.2 U | 1.2 U |
| Chloromethane | µg/Kg | 46,000 | 82 | 2.8 U | 2.4 U | 2.4 U |
| cis-1,2-Dichloroethene | µg/Kg | 37,000 | 755 | 3.62 J+ | 18 | 16.1 |
| cis-1,3-Dichloropropene | µg/Kg | NE | NE | 1.4 U | 1.2 U | 1.2 U |
| Cyclohexane | µg/Kg | 2,700,000 | NE | 1.16 J | 2.4 U | 2.4 U |
| Dibromochloromethane | µg/Kg | 39,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| Dibromomethane | µg/Kg | 9,900 | NE | 1.4 U | 1.2 U | 1.2 U |
| Dichlorodifluoromethane | µg/Kg | 37,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| Ethylbenzene | µg/Kg | 25,000 | 13,000 | 1.4 U | 1.2 U | 0.47 J |
| Isopropylbenzene | µg/Kg | 990,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| m,p-Xylenes | µg/Kg | NE | NE | 2.8 U | 41.6 J | 2.59 J |
| Methyl tert-butyl ether | µg/Kg | 210,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| Methylene chloride | µg/Kg | 320,000 | 31 | 5.7 U | 4.9 U | 4.8 U |
| Naphthalene | µg/Kg | 8,600 | 188,000 | 130 J- | 19 J+ | 1.2 U |
| n-Butylbenzene | µg/Kg | 5,800,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| n-Propylbenzene | µg/Kg | 2,400,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| o-Xylene | µg/Kg | 280,000 | NE | 1.4 U | 21.5 J | 1.65 J |
| p-Isopropyltoluene | µg/Kg | 110,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| sec-Butylbenzene | µg/Kg | 12,000,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| Styrene | µg/Kg | 3,500,000 | 4,000 | 1.4 U | 1.2 U | 1.2 U |
| tert-Butylbenzene | µg/Kg | 12,000,000 | NE | 1.4 U | 1.2 U | 1.2 U |
| Tetrachloroethene | µg/Kg | 39,000 | 181 | 273 J | 400 J | 198 J |
| Tetrahydrofuran | µg/Kg | 9,500,000 | NE | 14 U | 12 U | 12 U |
| Toluene | µg/Kg | 4,700,000 | 12,000 | 1.59 J+ | 3.97 | 3.29 |
| Total 1,2-Dichloroethene | µg/Kg | NE | NE | 3.62 | 18.6 | 16.8 |
| Total Xylenes | µg/Kg | 250,000 | 210,000 | 2.8 U | 63.1 J | 4.24 J |
| trans-1,2-Dichloroethene | µg/Kg | 30,000 | 1,520 | 1.4 U | 0.601 J | 0.705 J |
| trans-1,3-Dichloropropene | µg/Kg | NE | NE | 1.4 U | 1.2 U | 1.2 U |
| Trichloroethene | µg/Kg | 1,900 | 182 | 85 J | 114 J | 80.7 J |
| Trichlorofluoromethane | µg/Kg | 35,000,000 | NE | 2.8 U | 2.4 U | 2.4 U |
| Vinyl acetate | µg/Kg | 380,000 | NE | 14 U | 12 U | 12 U |
| Vinyl chloride | µg/Kg | 1,700 | 29 | 1.4 U | 1.2 U | 1.2 U |

Notes:
µg/Kg: micrograms per kilogram
NE: Screening level not established
U: The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
UJ: The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
J: The reported result was an estimated value with an unknown bias.
J+ The result was an estimated quantity, but the result may be biased high.
J-: The result was an estimated quantity, but the result may be biased low.

TABLE B-2
SOIL ANALYTICAL RESULTS, SEMIVOLATILE ORGANIC COMPOUNDS
DUNN FIELD WEST ROUND 2 SOIL SAMPLING MEMORANDUM
Defense Depot Memphis, Tennessee

| | Location-Depth | USEPA Industrial Soil Regional Screening Level | Remediation Goal | SB-111-0 | SB-111-5 | SB-112-0 | SB-112-5 | SB-113-0 | SB-113-5 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | | SB-111-0-DFW | SB-111-5-DFW | SB-112-0-DFW | SB-112-5-DFW | SB-113-0-DFW | SB-113-5-DFW |
| | Lab ID | | | 1568822 | 1568823 | 1568820 | 1568821 | 1568828 | 1568830 |
| | Sample Date | | | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 |
| Analyte | Units | | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/Kg | 26,000 | NE | 240 UJ | 220 U | 2300 U | 230 U | 240 U | 240 U |
| 1,2-Dichlorobenzene | µg/Kg | 930,000 | 17,000 | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| 1,2-Diphenylhydrazine | µg/Kg | 2,900 | NE | 240 UJ | 220 U | 2300 U | 230 U | 240 U | 240 U |
| 1,3-Dichlorobenzene | µg/Kg | NE | 360 | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| 1,4-Dichlorobenzene | µg/Kg | 11,000 | 2,000 | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| 1-Methylnaphthalene | µg/Kg | 77 | NE | 327 J- | 68.7 J | 814 J | 110 U | 110 J | 178 J |
| 2,4,5-Trichlorophenol | µg/Kg | 8,200,000 | 270,000 | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| 2,4,6-Trichlorophenol | µg/Kg | 82,000 | 200 | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| 2,4-Dichlorophenol | µg/Kg | 250,000 | 1,000 | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| 2,4-Dimethylphenol | µg/Kg | 1,600,000 | NE | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| 2,4-Dinitrophenol | µg/Kg | 160,000 | NE | 590 U | 560 U | 5700 UJ | 570 U | 600 U | 590 U |
| 2,4-Dinitrotoluene | µg/Kg | 7,400 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| 2,6-Dichlorophenol | µg/Kg | NE | NE | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| 2,6-Dinitrotoluene | µg/Kg | 1,500 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| 2-Chloronaphthalene | µg/Kg | 6,000,000 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| 2-Chlorophenol | µg/Kg | 580,000 | NE | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| 2-Methyl-4,6-dinitrophenol | µg/Kg | 6,600 | NE | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| 2-Methylnaphthalene | µg/Kg | 300,000 | NE | 485 J- | 94.5 J | 1080 J | 110 U | 144 J | 274 J |
| 2-Methylphenol | µg/Kg | 4,100,000 | NE | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| 2-Nitroaniline | µg/Kg | 800,000 | NE | 240 UJ | 220 U | 2300 U | 230 U | 240 U | 240 U |
| 2-Nitrophenol | µg/Kg | NE | NE | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| 3,3'-Dichlorobenzidine | µg/Kg | 5,100 | NE | 240 UJ | 220 U | 2300 UJ | 230 U | 240 UJ | 240 U |
| 3-Nitroaniline | µg/Kg | NE | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| 4-Bromophenyl phenyl ether | µg/Kg | NE | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| 4-Chloro-3-methylphenol | µg/Kg | 8,200,000 | NE | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| 4-Chloroaniline | µg/Kg | 11,000 | NE | 240 UJ | 220 U | 2300 U | 230 U | 240 U | 240 U |
| 4-Chlorophenyl phenyl ether | µg/Kg | NE | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| 4-Methylphenol | µg/Kg | 8,200,000 | NE | 1200 U | 1100 U | 11000 U | 1100 U | 1200 U | 1200 U |
| 4-Nitroaniline | µg/Kg | 110,000 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| 4-Nitrophenol | µg/Kg | NE | NE | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| Acenaphthene | µg/Kg | 4,500,000 | 29,219,000 | 3960 J- | 702 | 9350 | 230 U | 1320 J- | 240 U |
| Acenaphthylene | µg/Kg | NE | NE | 94.8 J- | 110 U | 1100 U | 110 U | 120 U | 120 U |
| Aniline | µg/Kg | 400,000 | NE | 240 UJ | 220 U | 2300 U | 230 U | 240 UJ | 240 U |
| Anthracene | µg/Kg | 23,000,000 | 100,000,000 | 5660 J- | 1070 | 15400 | 110 U | 2020 J- | 55.9 J |
| Benzidine | µg/Kg | 10 | NE | 2400 UJ | 2200 UJ | 23000 UJ | 2300 UJ | 2400 UJ | 2400 UJ |
| Benzo(a)anthracene | µg/Kg | 21,000 | 21,100 | 22400 J- | 3630 | 47300 | 106 J | 9110 J | 170 J |
| Benzo(a)pyrene | µg/Kg | 2,100 | 2,110 | 21700 J- | 3670 | 45400 | 91.4 J | 9050 J | 196 J |
| Benzo(b)fluoranthene | µg/Kg | 21,000 | 21,100 | 33300 J- | 6260 | 90000 | 148 J | 13900 J | 330 |
| Benzo(g,h,i)perylene | µg/Kg | NE | NE | 10600 J- | 1370 J- | 12000 | 68.1 J- | 3180 J- | 120 J- |
| Benzo(k)fluoranthene | µg/Kg | 210,000 | 211,000 | 11600 J- | 2010 | 26800 | 110 U | 3280 | 111 J |
| Benzoic acid | µg/Kg | 330,000,000 | NE | 1100 U | 1000 U | 10000 UJ | 1000 U | 1100 U | 1100 U |
| Benzyl alcohol | µg/Kg | 8,200,000 | NE | 240 UJ | 220 U | 2300 U | 230 U | 240 U | 240 U |
| Bis(2-chloroethoxy)methane | µg/Kg | 250,000 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| Bis(2-chloroethyl) ether | µg/Kg | 1,000 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| Bis(2-ethylhexyl)phthalate | µg/Kg | 160,000 | 1,231,000 | 158 J- | 110 U | 1100 U | 110 U | 108 J | 120 U |
| Butylbenzyl phthalate | µg/Kg | 1,200,000 | 100,000,000 | 240 UJ | 220 U | 2300 U | 230 U | 240 U | 240 U |
| Carbazole | µg/Kg | NE | 862,000 | 9180 J- | 1310 | 17400 | 230 U | 2650 J- | 240 U |
| Chrysene | µg/Kg | 2,100,000 | 2,110,000 | 23500 J- | 4010 | 48200 | 115 J | 9770 J- | 188 J |
| Dibenzo(a,h)anthracene | µg/Kg | 2,100 | 2,110 | 2890 J- | 377 | 3710 | 110 U | 828 J- | 120 U |
| Dibenzofuran | µg/Kg | 120,000 | NE | 1880 J- | 304 | 4480 | 110 U | 572 | 120 U |
| Diethyl phthalate | µg/Kg | 66,000,000 | 1,285,000 | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| Dimethyl phthalate | µg/Kg | NE | 3,309,000 | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| Di-n-butyl phthalate | µg/Kg | 8,200,000 | 61,561,000 | 240 UJ | 220 U | 2300 U | 230 U | 240 U | 240 U |
| Di-n-octyl phthalate | µg/Kg | 820,000 | 24,624,000 | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| Fluoranthene | µg/Kg | 3,000,000 | 22,000,000 | 58100 J- | 10200 | 161000 | 306 | 23400 J | 477 J |
| Fluorene | µg/Kg | 3,000,000 | 26,281,000 | 2900 J- | 483 | 6940 | 110 U | 902 | 120 U |
| Hexachlorobenzene | µg/Kg | 960 | 10,700 | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| Hexachlorobutadiene | µg/Kg | 5,300 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| Hexachlorocyclopentadiene | µg/Kg | 750 | NE | 120 UJ | 110 UJ | 1100 UJ | 110 UJ | 120 UJ | 120 UJ |
| Hexachloroethane | µg/Kg | 8,000 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| Indeno(1,2,3-cd)pyrene | µg/Kg | 21,000 | 21,100 | 10600 J- | 1380 | 13100 | 56.6 J | 3140 J- | 87.3 J |
| Isophorone | µg/Kg | 2,400,000 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| Naphthalene | µg/Kg | 8,600 | 188,000 | 921 J- | 202 J | 2180 J | 110 U | 244 | 115 J |
| Nitrobenzene | µg/Kg | 22,000 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| N-Nitrosodimethylamine | µg/Kg | 34 | NE | 240 UJ | 220 U | 2300 U | 230 U | 240 U | 240 U |
| N-Nitroso-di-n-propylamine | µg/Kg | 330 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| N-Nitrosodiphenylamine | µg/Kg | 470,000 | NE | 240 UJ | 220 U | 2300 U | 230 U | 240 U | 240 U |
| N-Nitrosopyrrolidine | µg/Kg | 1,100 | NE | 120 UJ | 110 U | 1100 U | 110 U | 120 U | 120 U |
| Pentachlorophenol | µg/Kg | 4,000 | 27,000 | 590 U | 560 U | 5700 UJ | 570 U | 600 U | 510 J |
| Phenanthrene | µg/Kg | NE | NE | 42200 J- | 6720 | 112000 | 159 J | 15100 J | 369 |
| Phenol | µg/Kg | 25,000,000 | 100,000 | 590 U | 560 U | 5700 U | 570 U | 600 U | 590 U |
| Pyrene | µg/Kg | 2,300,000 | 29,126,000 | 42100 J- | 7350 | 113000 | 214 J | 17000 J | 361 J |
| Pyridine | µg/Kg | 120,000 | NE | 240 UJ | 220 U | 2300 U | 230 U | 240 U | 240 U |

Notes:

µg/Kg: micrograms per kilogram

NE: Screening level not established
U: The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

UJ: The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.

J: The reported result was an estimated value with an unknown bias.

J+ The result was an estimated quantity, but the result may be biased high.

J-: The result was an estimated quantity, but the result may be biased low.

TABLE B-2
SOIL ANALYTICAL RESULTS, SEMIVOLATILE ORGANIC COMPOUNDS
DUNN FIELD WEST ROUND 2 SOIL SAMPLING MEMORANDUM
Defense Depot Memphis, Tennessee

| | Location-Depth | USEPA Industrial Soil Regional Screening Level | Remediation Goal | SB-113-5 | SB-114-0 | SB-114-0 | SB-115-0 | SB-116-0 | SB-118-0 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | | DUP-1 | SB-114-0-DFW | DUP-2 | SB-115-0-DFW | SB-116-0-DFW | SB-118-0-DFW |
| | Lab ID | | | 1568846 | 1568834 | 1568832 | 1568836 | 1568838 | 1568839 |
| | Sample Date | | | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 |
| Analyte | Units | | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/Kg | 26,000 | NE | 220 U | 2300 UJ | 2200 U | 260 U | 2300 U | 240 U |
| 1,2-Dichlorobenzene | µg/Kg | 930,000 | 17,000 | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| 1,2-Diphenylhydrazine | µg/Kg | 2,900 | NE | 220 U | 2300 UJ | 2200 U | 260 U | 2300 U | 240 U |
| 1,3-Dichlorobenzene | µg/Kg | NE | 360 | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| 1,4-Dichlorobenzene | µg/Kg | 11,000 | 2,000 | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| 1-Methylnaphthalene | µg/Kg | 77 | NE | 40.8 J | 676 J- | 791 J | 94.4 J | 1140 J | 68.8 J |
| 2,4,5-Trichlorophenol | µg/Kg | 8,200,000 | 270,000 | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| 2,4,6-Trichlorophenol | µg/Kg | 82,000 | 200 | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| 2,4-Dichlorophenol | µg/Kg | 250,000 | 1,000 | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| 2,4-Dimethylphenol | µg/Kg | 1,600,000 | NE | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| 2,4-Dinitrophenol | µg/Kg | 160,000 | NE | 560 U | 5800 UJ | 5400 UJ | 650 U | 5700 U | 610 U |
| 2,4-Dinitrotoluene | µg/Kg | 7,400 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| 2,6-Dichlorophenol | µg/Kg | NE | NE | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| 2,6-Dinitrotoluene | µg/Kg | 1,500 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| 2-Chloronaphthalene | µg/Kg | 6,000,000 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| 2-Chlorophenol | µg/Kg | 580,000 | NE | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| 2-Methyl-4,6-dinitrophenol | µg/Kg | 6,600 | NE | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| 2-Methylnaphthalene | µg/Kg | 300,000 | NE | 63.9 J | 846 J- | 956 J | 92 J | 1760 J | 83.1 J |
| 2-Methylphenol | µg/Kg | 4,100,000 | NE | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| 2-Nitroaniline | µg/Kg | 800,000 | NE | 220 U | 2300 UJ | 2200 U | 260 U | 2300 U | 240 U |
| 2-Nitrophenol | µg/Kg | NE | NE | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| 3,3'-Dichlorobenzidine | µg/Kg | 5,100 | NE | 220 U | 2300 UJ | 2200 UJ | 260 U | 2300 U | 240 U |
| 3-Nitroaniline | µg/Kg | NE | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| 4-Bromophenyl phenyl ether | µg/Kg | NE | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| 4-Chloro-3-methylphenol | µg/Kg | 8,200,000 | NE | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| 4-Chloroaniline | µg/Kg | 11,000 | NE | 220 U | 2300 UJ | 2200 U | 260 U | 2300 U | 240 U |
| 4-Chlorophenyl phenyl ether | µg/Kg | NE | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| 4-Methylphenol | µg/Kg | 8,200,000 | NE | 1100 U | 12000 U | 11000 U | 1300 U | 11000 U | 1200 U |
| 4-Nitroaniline | µg/Kg | 110,000 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| 4-Nitrophenol | µg/Kg | NE | NE | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| Acenaphthene | µg/Kg | 4,500,000 | 29,219,000 | 220 U | 8540 J- | 9410 | 1200 | 12600 | 710 |
| Acenaphthylene | µg/Kg | NE | NE | 110 U | 1200 UJ | 1100 U | 203 J | 1100 U | 120 U |
| Aniline | µg/Kg | 400,000 | NE | 220 U | 2300 UJ | 2200 U | 260 U | 2300 U | 240 U |
| Anthracene | µg/Kg | 23,000,000 | 100,000,000 | 82.6 J | 14200 J- | 15600 | 2060 | 20900 | 972 |
| Benzidine | µg/Kg | 10 | NE | 2200 UJ | 23000 UJ | 22000 UJ | 2600 UJ | 23000 UJ | 2400 UJ |
| Benzo(a)anthracene | µg/Kg | 21,000 | 21,100 | 249 | 48100 J- | 51100 | 10300 | 49200 | 3290 |
| Benzo(a)pyrene | µg/Kg | 2,100 | 2,110 | 342 J | 46700 J- | 51800 | 10600 | 45500 | 3120 |
| Benzo(b)fluoranthene | µg/Kg | 21,000 | 21,100 | 564 J | 92400 J- | 99300 | 16100 | 75400 | 4960 |
| Benzo(g,h,i)perylene | µg/Kg | NE | NE | 560 U | 12100 J- | 13900 | 2630 J- | 11900 J- | 1520 J- |
| Benzo(k)fluoranthene | µg/Kg | 210,000 | 211,000 | 560 U | 28500 J- | 31300 | 4590 | 28800 | 1740 |
| Benzoic acid | µg/Kg | 330,000,000 | NE | 1000 U | 10000 UJ | 9700 UJ | 1200 U | 10000 U | 506 J |
| Benzyl alcohol | µg/Kg | 8,200,000 | NE | 220 U | 2300 UJ | 2200 U | 260 U | 2300 U | 240 U |
| Bis(2-chloroethoxy)methane | µg/Kg | 250,000 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| Bis(2-chloroethyl) ether | µg/Kg | 1,000 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| Bis(2-ethylhexyl)phthalate | µg/Kg | 160,000 | 1,231,000 | 110 U | 1200 UJ | 1100 U | 104 J | 1100 U | 120 U |
| Butylbenzyl phthalate | µg/Kg | 1,200,000 | 100,000,000 | 220 U | 2300 UJ | 2200 U | 260 U | 2300 U | 240 U |
| Carbazole | µg/Kg | NE | 862,000 | 67.4 J | 16000 J- | 17700 | 2530 | 21900 | 1250 |
| Chrysene | µg/Kg | 2,100,000 | 2,110,000 | 266 | 49300 J- | 52100 | 11100 | 47500 | 3600 |
| Dibenzo(a,h)anthracene | µg/Kg | 2,100 | 2,110 | 560 U | 3950 J- | 4360 | 750 | 3680 | 407 |
| Dibenzofuran | µg/Kg | 120,000 | NE | 110 U | 3690 J- | 4260 | 491 | 6660 | 264 |
| Diethyl phthalate | µg/Kg | 66,000,000 | 1,285,000 | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| Dimethyl phthalate | µg/Kg | NE | 3,309,000 | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| Di-n-butyl phthalate | µg/Kg | 8,200,000 | 61,561,000 | 220 U | 2300 UJ | 2200 U | 260 U | 2300 U | 240 U |
| Di-n-octyl phthalate | µg/Kg | 820,000 | 24,624,000 | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| Fluoranthene | µg/Kg | 3,000,000 | 22,000,000 | 655 J | 157000 J- | 172000 | 26100 | 170000 | 9300 |
| Fluorene | µg/Kg | 3,000,000 | 26,281,000 | 110 U | 6080 J- | 6860 | 909 | 9930 | 402 |
| Hexachlorobenzene | µg/Kg | 960 | 10,700 | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| Hexachlorobutadiene | µg/Kg | 5,300 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| Hexachlorocyclopentadiene | µg/Kg | 750 | NE | 110 UJ | 1200 UJ | 1100 UJ | 130 UJ | 1100 UJ | 120 UJ |
| Hexachloroethane | µg/Kg | 8,000 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| Indeno(1,2,3-cd)pyrene | µg/Kg | 21,000 | 21,100 | 560 U | 13000 J- | 14800 | 2740 | 12900 | 1470 |
| Isophorone | µg/Kg | 2,400,000 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| Naphthalene | µg/Kg | 8,600 | 188,000 | 62 J | 1530 J- | 1640 J | 186 J | 2840 | 86.6 J |
| Nitrobenzene | µg/Kg | 22,000 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| N-Nitrosodimethylamine | µg/Kg | 34 | NE | 220 U | 2300 UJ | 2200 U | 260 U | 2300 U | 240 U |
| N-Nitroso-di-n-propylamine | µg/Kg | 330 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| N-Nitrosodiphenylamine | µg/Kg | 470,000 | NE | 220 U | 2300 UJ | 2200 U | 260 U | 2300 U | 240 U |
| N-Nitrosopyrrolidine | µg/Kg | 1,100 | NE | 110 U | 1200 UJ | 1100 U | 130 U | 1100 U | 120 U |
| Pentachlorophenol | µg/Kg | 4,000 | 27,000 | 560 U | 5800 UJ | 5400 UJ | 650 U | 5700 U | 610 U |
| Phenanthrene | µg/Kg | NE | NE | 398 | 101000 J- | 113000 | 15700 | 112000 | 5380 |
| Phenol | µg/Kg | 25,000,000 | 100,000 | 560 U | 5800 U | 5400 U | 650 U | 5700 U | 610 U |
| Pyrene | µg/Kg | 2,300,000 | 29,126,000 | 535 J | 112000 J- | 122000 | 19400 | 99600 | 6000 |
| Pyridine | µg/Kg | 120,000 | NE | 220 U | 2300 UJ | 2200 U | 260 U | 2300 U | 240 U |

Notes:

µg/Kg: micrograms per kilogram

NE: Screening level not established
U: The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

UJ: The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.

J: The reported result was an estimated value with an unknown bias.

J+ The result was an estimated quantity, but the result may be biased high.

J-: The result was an estimated quantity, but the result may be biased low.

TABLE B-2
SOIL ANALYTICAL RESULTS, SEMIVOLATILE ORGANIC COMPOUNDS
DUNN FIELD WEST ROUND 2 SOIL SAMPLING MEMORANDUM
Defense Depot Memphis, Tennessee

| Location-Depth | | USEPA Industrial Soil Regional Screening Level | Remediation Goal | SB-117-0 | SB-119-0 | SB-120-0 | SB-121-0 | SB-122-0 |
|---|---|---|---|---|---|---|---|---|
| Sample ID | | | | SB-117-0-DFW | SB-119-0-DFW | SB-120-0-DFW | SB-121-0-DFW | SB-122-0-DFW |
| Lab ID | | | | 1568841 | 1568842 | 1568843 | 1568845 | 1568844 |
| Sample Date | | | | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 | 4/1/2025 |
| Analyte | Units | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/Kg | 26,000 | NE | 2300 U | 2500 U | 230 U | 250 U | 220 U |
| 1,2-Dichlorobenzene | µg/Kg | 930,000 | 17,000 | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| 1,2-Diphenylhydrazine | µg/Kg | 2,900 | NE | 2300 U | 2500 U | 230 U | 250 U | 220 U |
| 1,3-Dichlorobenzene | µg/Kg | NE | 360 | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| 1,4-Dichlorobenzene | µg/Kg | 11,000 | 2,000 | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| 1-Methylnaphthalene | µg/Kg | 77 | NE | 2220 J | 1520 J | 91 J | 43.5 J | 78.7 J |
| 2,4,5-Trichlorophenol | µg/Kg | 8,200,000 | 270,000 | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| 2,4,6-Trichlorophenol | µg/Kg | 82,000 | 200 | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| 2,4-Dichlorophenol | µg/Kg | 250,000 | 1,000 | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| 2,4-Dimethylphenol | µg/Kg | 1,600,000 | NE | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| 2,4-Dinitrophenol | µg/Kg | 160,000 | NE | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| 2,4-Dinitrotoluene | µg/Kg | 7,400 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| 2,6-Dichlorophenol | µg/Kg | NE | NE | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| 2,6-Dinitrotoluene | µg/Kg | 1,500 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| 2-Chloronaphthalene | µg/Kg | 6,000,000 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| 2-Chlorophenol | µg/Kg | 580,000 | NE | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| 2-Methyl-4,6-dinitrophenol | µg/Kg | 6,600 | NE | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| 2-Methylnaphthalene | µg/Kg | 300,000 | NE | 3570 | 2350 J | 119 J | 50.7 J | 90 J |
| 2-Methylphenol | µg/Kg | 4,100,000 | NE | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| 2-Nitroaniline | µg/Kg | 800,000 | NE | 2300 U | 2500 U | 230 U | 250 U | 220 U |
| 2-Nitrophenol | µg/Kg | NE | NE | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| 3,3'-Dichlorobenzidine | µg/Kg | 5,100 | NE | 2300 U | 2500 U | 230 U | 250 U | 220 U |
| 3-Nitroaniline | µg/Kg | NE | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| 4-Bromophenyl phenyl ether | µg/Kg | NE | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| 4-Chloro-3-methylphenol | µg/Kg | 8,200,000 | NE | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| 4-Chloroaniline | µg/Kg | 11,000 | NE | 2300 U | 2500 U | 230 U | 250 U | 220 U |
| 4-Chlorophenyl phenyl ether | µg/Kg | NE | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| 4-Methylphenol | µg/Kg | 8,200,000 | NE | 11000 U | 12000 U | 1100 U | 1200 U | 1100 U |
| 4-Nitroaniline | µg/Kg | 110,000 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| 4-Nitrophenol | µg/Kg | NE | NE | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| Acenaphthene | µg/Kg | 4,500,000 | 29,219,000 | 23500 | 13400 | 1070 | 577 | 1010 |
| Acenaphthylene | µg/Kg | NE | NE | 1100 U | 1200 U | 66.1 J | 120 U | 149 J |
| Aniline | µg/Kg | 400,000 | NE | 2300 U | 2500 U | 230 U | 250 U | 220 U |
| Anthracene | µg/Kg | 23,000,000 | 100,000,000 | 34100 | 24300 | 1930 | 1090 | 1820 |
| Benzidine | µg/Kg | 10 | NE | 23000 UJ | 25000 UJ | 2300 UJ | 2500 UJ | 2200 UJ |
| Benzo(a)anthracene | µg/Kg | 21,000 | 21,100 | 104000 | 79600 | 7070 | 3540 | 8210 |
| Benzo(a)pyrene | µg/Kg | 2,100 | 2,110 | 97100 | 56400 | 6830 | 3420 | 7800 |
| Benzo(b)fluoranthene | µg/Kg | 21,000 | 21,100 | 149000 | 108000 | 10600 | 6100 | 11500 |
| Benzo(g,h,i)perylene | µg/Kg | NE | NE | 19300 J- | 15800 J- | 1690 J- | 908 J- | 1860 J- |
| Benzo(k)fluoranthene | µg/Kg | 210,000 | 211,000 | 41200 | 32600 | 3500 | 2170 | 3810 |
| Benzoic acid | µg/Kg | 330,000,000 | NE | 10000 U | 11000 U | 1000 U | 558 J | 1000 U |
| Benzyl alcohol | µg/Kg | 8,200,000 | NE | 2300 U | 2500 U | 230 U | 250 U | 220 U |
| Bis(2-chloroethoxy)methane | µg/Kg | 250,000 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| Bis(2-chloroethyl) ether | µg/Kg | 1,000 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| Bis(2-ethylhexyl)phthalate | µg/Kg | 160,000 | 1,231,000 | 1100 U | 1200 U | 90.7 J | 79.4 J | 103 J |
| Butylbenzyl phthalate | µg/Kg | 1,200,000 | 100,000,000 | 2300 U | 2500 U | 230 U | 250 U | 220 U |
| Carbazole | µg/Kg | NE | 862,000 | 38400 | 25000 | 2140 | 1170 | 2000 |
| Chrysene | µg/Kg | 2,100,000 | 2,110,000 | 108000 | 59700 | 7460 | 3600 | 8520 |
| Dibenzo(a,h)anthracene | µg/Kg | 2,100 | 2,110 | 6050 | 5010 | 504 | 278 | 588 |
| Dibenzofuran | µg/Kg | 120,000 | NE | 12700 | 7360 | 502 | 230 J | 420 |
| Diethyl phthalate | µg/Kg | 66,000,000 | 1,285,000 | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| Dimethyl phthalate | µg/Kg | NE | 3,309,000 | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| Di-n-butyl phthalate | µg/Kg | 8,200,000 | 61,561,000 | 2300 U | 2500 U | 230 U | 250 U | 220 U |
| Di-n-octyl phthalate | µg/Kg | 820,000 | 24,624,000 | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| Fluoranthene | µg/Kg | 3,000,000 | 22,000,000 | 327000 | 202000 | 18500 | 9730 | 20500 |
| Fluorene | µg/Kg | 3,000,000 | 26,281,000 | 18300 | 11600 | 845 | 452 | 718 |
| Hexachlorobenzene | µg/Kg | 960 | 10,700 | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| Hexachlorobutadiene | µg/Kg | 5,300 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| Hexachlorocyclopentadiene | µg/Kg | 750 | NE | 1100 UJ | 1200 UJ | 110 UJ | 120 UJ | 110 UJ |
| Hexachloroethane | µg/Kg | 8,000 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| Indeno(1,2,3-cd)pyrene | µg/Kg | 21,000 | 21,100 | 21100 | 17000 | 1800 | 1000 | 2020 |
| Isophorone | µg/Kg | 2,400,000 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| Naphthalene | µg/Kg | 8,600 | 188,000 | 6900 | 4410 | 188 J | 80.5 J | 179 J |
| Nitrobenzene | µg/Kg | 22,000 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| N-Nitrosodimethylamine | µg/Kg | 34 | NE | 2300 U | 2500 U | 230 U | 250 U | 220 U |
| N-Nitroso-di-n-propylamine | µg/Kg | 330 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| N-Nitrosodiphenylamine | µg/Kg | 470,000 | NE | 2300 U | 2500 U | 230 U | 250 U | 220 U |
| N-Nitrosopyrrolidine | µg/Kg | 1,100 | NE | 1100 U | 1200 U | 110 U | 120 U | 110 U |
| Pentachlorophenol | µg/Kg | 4,000 | 27,000 | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| Phenanthrene | µg/Kg | NE | NE | 241000 | 149000 | 12500 | 5280 | 12200 |
| Phenol | µg/Kg | 25,000,000 | 100,000 | 5600 U | 6200 U | 560 U | 620 U | 560 U |
| Pyrene | µg/Kg | 2,300,000 | 29,126,000 | 206000 | 144000 | 13400 | 6890 | 14800 |
| Pyridine | µg/Kg | 120,000 | NE | 2300 U | 2500 U | 230 U | 250 U | 220 U |

Notes:

µg/Kg: micrograms per kilogram

NE: Screening level not established
U: The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

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J+ The result was an estimated quantity, but the result may be biased high.

J-: The result was an estimated quantity, but the result may be biased low.

# Appendix C

## Laboratory Analytical Reports

sterling labs - O'Hare Location

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# Analytical Report

Lynn Lutz
HDR
369 Inverness Drive Suite 325
Englewood, CO 80112

March 21, 2025

SDG: O24J0276

RE: Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048

Dear Lynn Lutz:

Enclosed are the analytical reports for the Sterling Labs Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Olga Karplyuk
Project Manager
okarplyuk@TheSterlingLab.com
Approved: 3/21/2025 5:41:04PM

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable..

Department of Defense, Accredited by PJLA, Cert No. 75537

PJLA Testing DoD ELAP Accreditation No. 75537

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## Sample Summary

| Sample ID | Laboratory | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|---|
| SB-110-0-DFW | Sterling Labs | O24J0276-01 | Soil | 10/01/24 08:02 | 10/03/24 10:35 |
| SB-110-8-DFW | Sterling Labs | O24J0276-02 | Soil | 10/01/24 08:59 | 10/03/24 10:35 |
| SB-110-17-DFW | Sterling Labs | O24J0276-03 | Soil | 10/01/24 09:20 | 10/03/24 10:35 |
| SB-110-23-DFW | Sterling Labs | O24J0276-04 | Soil | 10/01/24 09:43 | 10/03/24 10:35 |
| DUP-2-DFW | Sterling Labs | O24J0276-05 | Soil | 10/01/24 14:58 | 10/03/24 10:35 |
| SB-110-32-DFW | Sterling Labs | O24J0276-06 | Soil | 10/01/24 09:58 | 10/03/24 10:35 |
| SB-108-0-DFW | Sterling Labs | O24J0276-07 | Soil | 10/01/24 11:07 | 10/03/24 10:35 |
| SB-108-7-DFW | Sterling Labs | O24J0276-08 | Soil | 10/01/24 11:34 | 10/03/24 10:35 |
| SB-108-15-DFW | Sterling Labs | O24J0276-09 | Soil | 10/01/24 11:53 | 10/03/24 10:35 |
| SB-108-25-DFW | Sterling Labs | O24J0276-10 | Soil | 10/01/24 12:18 | 10/03/24 10:35 |
| SB-108-32-DFW | Sterling Labs | O24J0276-11 | Soil | 10/01/24 13:19 | 10/03/24 10:35 |
| SB-109-0-DFW | Sterling Labs | O24J0276-12 | Soil | 10/01/24 14:19 | 10/03/24 10:35 |
| DUP-1-DFW | Sterling Labs | O24J0276-13 | Soil | 10/01/24 11:08 | 10/03/24 10:35 |
| SB-109-6-DFW | Sterling Labs | O24J0276-14 | Soil | 10/01/24 14:57 | 10/03/24 10:35 |
| SB-109-17-DFW | Sterling Labs | O24J0276-15 | Soil | 10/01/24 15:27 | 10/03/24 10:35 |
| SB-109-25-DFW | Sterling Labs | O24J0276-16 | Soil | 10/01/24 15:45 | 10/03/24 10:35 |
| SB-109-31-DFW | Sterling Labs | O24J0276-17 | Soil | 10/01/24 16:10 | 10/03/24 10:35 |
| RB-1-DFW | Sterling Labs | O24J0276-18 | Water | 10/01/24 17:07 | 10/03/24 10:35 |
| TB-1-DFW | Sterling Labs | O24J0276-19 | Water | 10/01/24 07:00 | 10/03/24 10:35 |

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## Case Narrative

Work Order: O24J0276
The samples were received on 10/3/2024 10:35:00 AM. The temperature of the cooler(s) at receipt was:

| Cooler: | Temp C |
|---|---|
| Cooler 1 | 2.9 |
| Cooler 2 | 3.2 |
| Cooler 3 | 2.3 |
| Cooler 4 | 1.7 |

Sample 10 D (SB-108-25-DFW) & 11 H (SB-108-32-DFW) arrived with broken lids.

R1: This is a revised report. TCLP Lead and Chromium Analysis was added for sample O24J0276-12 per client's request.

**GC Semivolatiles**

8082_DoD
S24J0308-CCV1/CCV2: The surrogate recovery of Decachlorobiphenyl is above control criteria in the sequence CCVs. Although there is a possible high bias, there were not any detections in the samples.

S24J0364-CCV1/CCV2: The surrogate recovery of Decachlorobiphenyl is above control criteria in the sequence CCVs. Although there is a possible high bias, there were not any detections in the samples.

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**Inorganics, metals**

6010

The metals Blank Spike (BS) prepared for batch (B24J0437) had recovery outside of control limits for Se, samples are non-detect.
The Method Blank prepared for batch (B24J0437) had Calcium, Iron, Potassium and detection in the blank. Reported batch samples are 10 times the blank level, so no significant contribution was made on any of the samples.
The metals Matrix Spike/Matrix Spike Duplicate (MS/MSD) prepared from sample SB-108-32-DFW(024J0276-11) had the following outside control limits:
AL: 3090%/8570% (MS/MSD) recovery
Sb: 0%/0% (MS/MSD) recovery
Ba: 117%/41% (MS/MSD) recovery
Ca: 60%/63% (MS/MSD) recovery
Cr: 114% (MSD) recovery
Fe: -562%/-229% (MS/MSD) recovery
Pb: 125%/62% (MS/MSD) recovery
Mn: 516%/-479% (MS/MSD) recovery
Se: 76%/72% (MS/MSD) recovery

S24K0300-CRL2 low level cal check was outside of control for potassium at 41% (80-120) associated samples were re-analyzed.

S24K0300-CCB3 had Magnesium detection in the continuing calibration blank( CCB). all reported samples are on column results reported greater than 10x

O24J0276-01RX1
O24J0276-02RX1
O24J0276-03RX1
O24J0276-04RX1
O24J0276-05RX1
O24J0276-06RX1
O24J0276-07RX1
O24J0276-08RX1
O24J0276-09RX1

O24J0276-10RX1
O24J0276-11RX1
O24J0276-12RX1
O24J0276-13RX1
O24J0276-14RX1
O24J0276-15RX1
O24J0276-16RX1
O24J0276-17RX1
O24J0276-11RS2

B24K0386-BLK1 had potassium above the MRL, associated samples were re-digested.

S24K0483-CRL2 low level cal check was outside of control for potassium at 129% (80-120) all reported samples are on column results reported greater than 10x the low level check. all at or above

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the CCV level.

O24J0276-07RX2
O24J0276-08RX2
O24J0276-09RX2
O24J0276-10RX2
O24J0276-11RX2
O24J0276-13RX2
O24J0276-14RX2
O24J0276-15RX2
O24J0276-16RX2
O24J0276-17RX2
O24J0276-12RS2

B24K0661-BLK1 is flagging potassium results with a B flag.<7.75 there is a hit of 7.55 mg/Kg which is greater than 1/2 the reporting limit. All samples are 10x greater than the blank detection.

O24J0276-07RX2
O24J0276-08RX2
O24J0276-09RX2
O24J0276-10RX2
O24J0276-11RX2
O24J0276-13RX2
O24J0276-14RX2
O24J0276-15RX2
O24J0276-16RX2
O24J0276-17RX2
O24J0276-12RS2

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**GC Semivolatiles**

8081 DoD
(Soil)
S24J0638-CCV1/CCV4/CCV7: The surrogate recovery of Decachlorobiphenyl is above control criteria on the [2C] column in the sequence CCVs, causing high recovery on this column in all batch QC and samples. The recovery of this compound was within control on the primary column.

(Water)
S24K0128-CCV1/CCV7: The surrogate recovery of Decachlorobiphenyl is above control criteria on the [2C] column in the sequence CCVs, causing high recovery on this column in batch QC and samples. The recovery of this compound was within control on the primary column.

B24J0392-BS3/BSD3: The recovery of Chlordane is above control criteria. The sample did not have a detection for this compound

S24K0128-CCV3/CCV9: The Toxaphene CCVs were acctidentally made 10x lower than standard and were not within the instrument calibration. The sample was re-extracted and Toxaphene was analyzed outside of the recommended hold time.

S24K0020-CCV1/CCV4/CCV7: The surrogate recovery of Decachlorobiphenyl is above control criteria on the [2C] column in the sequence CCVs, causing high recovery on this column in all batch QC and samples. The recovery of this compound was within control on the primary column.

**GCMS Semivolatiles**

8270 SIM DoD
B24J0426-BLK1: There are low detections in the method blank for Benzo(b)fluoranthene, Fluoranthene, Naphthalene, and Pyrene. The detections in the sample are more than 10x the detections in the blank.

8270 SVOC DoD
B24J0296-MSD1: The RPD between MS and MSD was outside control limits for multiple compounds.

B24J0789-BLK1: There is a low detection in the method blank for Bis(2-ethylhexyl)phthalate. There were not any detections in the associtaed sample for this compound.

B24J0295-BSD1: The RPD between BS and BSD was above the control limit (20%) for Benzoic acid.

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**GC-MS Volatiles**

8260B_VOC

O24J0232-03 was utilized for MS/MSD purposes. There were outliers in the B24J0265 MS/MSD and the affected target compounds in the source sample are qualified with a “J1”. As all other batch QC is acceptable, this is most likely due to a sample matrix effect.

O24J0276-15: The result for Vinyl chloride was over calibration when alayzed by 8260 DoD Na2HSO4. The sample was re-analyzed at a 50x dilution by 8260 DoD MeOH, however, Vinyl chloride was not detected. The sample was expired and could not be re-analyzed at a lower dilution. The primary result is reported over calibration and qualified with an "E".

The work order had one or more surrogate recoveries outside the laboratory control limits as listed with the outliers following. The sample Hold time passed before a re-analysis could be performed.

O24J0276-05: Toluene-d8 at 126%

O24J0276-13: 4-Bromofluorobenzene at 120%

O24J0276-14: Toluene-d8 at 136%

O24J0276-14: 1,2-Dichlorobenzene-d4 at 150%

S24J0371-CCV1 had elevated recoveries for 1,4-Dioxane at 124%, Bromomethane at 126%, and Vinyl acetate at 121%. The compounds were non-detected so no significant effect on the reported data and affected samples are “Q” qualified.

B24J0623-BS1 had elevated recoveries for 1,2,3-Trichlorobenzene at 135%, n-Butylbenzene at 135%, Naphthalene at 132%, and sec-Butylbenzene at 127%. The compounds were non-detected or below the reporting limit, so no significant effect on the reported data and affected samples are “Q” qualified.

O24J0276-05 n-Butylbenzene and sec-Butylbenzene have detects and samples hold time passed before a re-analysis could be performed.

O24J0276-11 was used for the batch MS/MSD that had outliers in the recoveries. The affected target compounds are “J1” qualified.

S24J0540-CCV1 had outlying recoveries for 1,2,3-Trichlorobenzene at 125%, 1,2,4-Trichlorobenzene at 121%, 2-Chloroethyl vinyl ether at 74%, Acrolein at 60%, Naphthalene at 123%, and Vinyl acetate at 124%. The sample hold time had passed before a re-analysis could be performed and affected compounds are “Q” qualified.

B24J0919-BS1 and BSD1 had elevated recoveries for 1,2,3-Trichlorobenzene at 132 and 131%. The compounds were non-detected or below the reporting limit, so no significant effect on the reported data and affected samples are “Q” qualified.

S24J0372-CCV1 had elevated recoveries for 1,2,3-Trichlorobenzene at 126% and Naphthalene at 123%. The affected samples are “Q” qualified and the hold time had passed before a re-analysis could be performed.

S24J0372-HCV1 had a low recovery for Carbon disulfide at 39%. The samples hold time had passed before a re-analysis could be performed.

B24J0623-BS1 had an elevated recovery for 1,2,3-Trichlorobenzene at 135% with an elevated RPD for 1-Propanol in the BSD1 at 23%. The compounds were non-detected, so no significant effect on the reported data and affected samples are “Q” qualified.

O24J0343-07 was used for the batch MS/MSD that had outliers in the spike recoveries and RPD’s. The affected target compounds are “J1” qualified.

8260 Library Search Data:

O24J0276: Library search data was supervisor reviewed for correctness of identifications. In some instances, peaks were reported that were baseline noise as well as peaks that are typically due to column bleed. In all cases, in the report these were set to non-reportable, though would appear in the raw data.

sterling labs - O'Hare Location

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Table of Contents

# Client Sample Results

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:02
**Matrix:** Soil
**Lab ID:** O24J0276-01

## Sterling Labs

### *Volatile Organic Compounds by GC/MS*

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 1.09 | 2.18 | U | ug/Kg dry | 0.440 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 1.09 | 2.18 | U | ug/Kg dry | 0.445 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 1.09 | 2.18 | U | ug/Kg dry | 0.388 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 1.09 | 2.18 | U | ug/Kg dry | 0.477 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethane | < 2.18 | 4.35 | U | ug/Kg dry | 0.590 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethene | < 1.09 | 2.18 | U | ug/Kg dry | 0.472 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,1-Dichloropropene | < 10.9 | 21.8 | U | ug/Kg dry | 3.09 | 10.9 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 21.8 | 43.5 | U, Q | ug/Kg dry | 7.05 | 21.8 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 10.9 | 21.8 | U | ug/Kg dry | 4.17 | 10.9 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 21.8 | 43.5 | U | ug/Kg dry | 6.92 | 21.8 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 4.35 | 8.70 | U | ug/Kg dry | 1.17 | 4.35 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 4.35 | 8.70 | U | ug/Kg dry | 1.80 | 4.35 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,2-Dibromoethane | < 1.09 | 2.18 | U | ug/Kg dry | 0.296 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 5.44 | 10.9 | U | ug/Kg dry | 1.90 | 5.44 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethane | < 1.09 | 2.18 | U | ug/Kg dry | 0.447 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,2-Dichloropropane | < 1.09 | 2.18 | U | ug/Kg dry | 0.526 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 2.18 | 4.35 | U | ug/Kg dry | 1.09 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 2.18 | 4.35 | U | ug/Kg dry | 0.780 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,3-Dichloropropane | < 1.09 | 2.18 | U | ug/Kg dry | 0.487 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,4-Dioxane | < 43.5 | 87.0 | U, Q | ug/Kg dry | 16.7 | 43.5 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 5.44 | 10.9 | U | ug/Kg dry | 1.99 | 5.44 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 1-Propanol | < 109 | 218 | U | ug/Kg dry | 34.6 | 109 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 2,2-Dichloropropane | < 1.09 | 2.18 | U | ug/Kg dry | 0.360 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **2-Butanone** | **13.9** | 30.5 | J | ug/Kg dry | 7.41 | 15.2 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 54.4 | 109 | U | ug/Kg dry | 21.8 | 54.4 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 2-Chlorotoluene | < 2.18 | 4.35 | U | ug/Kg dry | 0.954 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 2-Hexanone | < 15.2 | 30.5 | U | ug/Kg dry | 5.77 | 15.2 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 4-Chlorotoluene | < 2.18 | 4.35 | U | ug/Kg dry | 0.953 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **4-Isopropyltoluene** | **12.5** | 8.70 | | ug/Kg dry | 1.27 | 4.35 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 15.2 | 30.5 | U | ug/Kg dry | 4.44 | 15.2 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Acetone** | **169** | 76.2 | | ug/Kg dry | 13.2 | 38.1 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Acetonitrile | < 109 | 218 | U | ug/Kg dry | 33.9 | 109 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Acrolein | < 21.8 | 43.5 | U | ug/Kg dry | 9.13 | 21.8 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Acrylonitrile | < 2.18 | 4.35 | U | ug/Kg dry | 1.07 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Benzene** | **1.13** | 2.18 | J | ug/Kg dry | 0.313 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Bromobenzene | < 2.18 | 4.35 | U | ug/Kg dry | 0.612 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Bromochloromethane | < 2.18 | 4.35 | U | ug/Kg dry | 0.763 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:02
**Matrix:** Soil
**Lab ID:** O24J0276-01 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 1.09 | 2.18 | U | ug/Kg dry | 0.524 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Bromoform | < 2.18 | 4.35 | U | ug/Kg dry | 0.685 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Bromomethane | < 10.9 | 21.8 | U, Q | ug/Kg dry | 2.61 | 10.9 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Carbon disulfide | < 2.18 | 4.35 | U | ug/Kg dry | 0.655 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Carbon tetrachloride | < 10.9 | 21.8 | U | ug/Kg dry | 3.04 | 10.9 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Chlorobenzene | < 2.18 | 4.35 | U | ug/Kg dry | 0.566 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Chloroethane | < 4.35 | 8.70 | U | ug/Kg dry | 1.54 | 4.35 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Chloroform** | **5.20** | 4.35 | | ug/Kg dry | 0.796 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Chloromethane | < 4.35 | 8.70 | U | ug/Kg dry | 1.59 | 4.35 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **cis-1,2-Dichloroethene** | **5.71** | 4.35 | | ug/Kg dry | 0.621 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 2.18 | 4.35 | U | ug/Kg dry | 0.753 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Cyclohexane | < 5.44 | 10.9 | U | ug/Kg dry | 1.68 | 5.44 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Dibromochloromethane | < 1.09 | 2.18 | U | ug/Kg dry | 0.517 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Dibromomethane | < 1.09 | 2.18 | U | ug/Kg dry | 0.398 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Dichlorodifluoromethane | < 5.44 | 10.9 | U | ug/Kg dry | 1.32 | 5.44 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Ethylbenzene | < 4.35 | 8.70 | U | ug/Kg dry | 1.13 | 4.35 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Isobutanol | < 43.5 | 87.0 | U | ug/Kg dry | 11.6 | 43.5 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Isopropanol | < 43.5 | 87.0 | U | ug/Kg dry | 18.8 | 43.5 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Isopropylbenzene | < 2.18 | 4.35 | U | ug/Kg dry | 1.08 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| m,p-Xylene | < 4.35 | 8.70 | U | ug/Kg dry | 1.76 | 4.35 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Methyl tert-butyl ether | < 1.09 | 2.18 | U | ug/Kg dry | 0.364 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Methylene chloride | < 10.9 | 21.8 | U | ug/Kg dry | 4.28 | 10.9 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| n-Butylbenzene | < 10.9 | 21.8 | U, Q | ug/Kg dry | 3.11 | 10.9 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| n-Propylbenzene | < 2.18 | 4.35 | U | ug/Kg dry | 1.04 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Naphthalene | < 21.8 | 43.5 | U, Q | ug/Kg dry | 10.8 | 21.8 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| o-Xylene | < 4.35 | 8.70 | U | ug/Kg dry | 1.11 | 4.35 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| sec-Butylbenzene | < 2.18 | 4.35 | U, Q | ug/Kg dry | 1.07 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Styrene | < 4.35 | 8.70 | U | ug/Kg dry | 1.19 | 4.35 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| tert-Butylbenzene | < 2.18 | 4.35 | U | ug/Kg dry | 0.413 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Tetrachloroethene** | **2.38** | 4.35 | J | ug/Kg dry | 0.636 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Tetrahydrofuran | < 5.44 | 10.9 | U | ug/Kg dry | 1.57 | 5.44 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Toluene** | **1.41** | 2.18 | J | ug/Kg dry | 0.393 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **trans-1,2-Dichloroethene** | **2.47** | 4.35 | J | ug/Kg dry | 1.01 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 2.18 | 4.35 | U | ug/Kg dry | 0.890 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Trichloroethene** | **16.6** | 2.18 | | ug/Kg dry | 0.528 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Trichlorofluoromethane | < 1.09 | 2.18 | U | ug/Kg dry | 0.451 | 1.09 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Vinyl acetate | < 2.18 | 4.35 | U, Q | ug/Kg dry | 0.555 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:02
**Matrix:** Soil
**Lab ID:** O24J0276-01 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 2.18 | 4.35 | U | ug/Kg dry | 0.777 | 2.18 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| Xylenes, Total | < 6.53 | 13.1 | U | ug/Kg dry | 2.79 | 6.53 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **1,2-Dichloroethene, Total** | **8.18** | 8.70 | J | ug/Kg dry | 1.42 | 4.35 | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 111%* | *Limits: 78-119* | | *10/08/24 11:54* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 113%* | *Limits: 71-136* | | *10/08/24 11:54* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 102%* | *Limits: 81-114* | | *10/08/24 11:54* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 94%* | *Limits: 85-116* | | *10/08/24 11:54* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 108%* | *Limits: 79-119* | | *10/08/24 11:54* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 106%* | *Limits: 78-121* | | *10/08/24 11:54* | *B24J0623* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **(1R)-2,6,6-Trimethylbicyclo...** | **36.1** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **1-Hexene** | **6.49** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **1-Propene, 2-methyl-** | **4.93** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **2-Pentene, (E)-** | **3.71** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Allene** | **3.52** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Butanal** | **4.59** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Butane** | **66.4** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Butane, 2-methyl-** | **13.1** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Cyclopropane, 1,1-dimethyl-** | **2.91** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Cyclopropane, ethyl-** | **10.2** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Hexanal** | **32.3** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Hexane, 3,3,4-trimethyl-** | **2.63** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Isobutane** | **13.2** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Pentanal** | **11.6** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Pentane** | **29.6** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **Propene** | **125** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **unknown** | **5.37** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| **unknown (01)** | **4.20** | | | ug/Kg | | | 10/08/24 11:54 | B24J0623 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| **1-Methylnaphthalene** | **67.2** | 18.4 | | ug/Kg dry | 2.93 | 9.18 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **2-Methylnaphthalene** | **81.6** | 18.4 | | ug/Kg dry | 3.11 | 9.18 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Acenaphthene** | **682** | 18.4 | | ug/Kg dry | 3.35 | 9.18 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Acenaphthylene** | **28.8** | 18.4 | | ug/Kg dry | 4.98 | 11.5 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:02
**Matrix:** Soil
**Lab ID:** O24J0276-01 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270D SIM / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anthracene** | **846** | 18.4 | | ug/Kg dry | 4.68 | 11.5 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Benzo(a)anthracene** | **3,560** | 18.4 | | ug/Kg dry | 3.66 | 9.18 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Benzo(a)pyrene** | **3,370** | 18.4 | | ug/Kg dry | 2.80 | 9.18 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Benzo(b)fluoranthene** | **4,840** | 18.4 | | ug/Kg dry | 5.91 | 11.5 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Benzo(g,h,i)perylene** | **2,410** | 18.4 | | ug/Kg dry | 5.73 | 11.5 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Benzo(k)fluoranthene** | **1,730** | 18.4 | | ug/Kg dry | 4.79 | 11.5 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Chrysene** | **3,690** | 18.4 | | ug/Kg dry | 3.86 | 9.18 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Dibenzo(a,h)anthracene** | **530** | 18.4 | | ug/Kg dry | 4.64 | 11.5 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Fluoranthene** | **9,870** | 91.8 | D | ug/Kg dry | 28.6 | 57.4 | 10/15/24 18:02 | B24J0527 | MS5 | 5 |
| **Fluorene** | **467** | 18.4 | | ug/Kg dry | 4.38 | 9.18 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Indeno(1,2,3-cd)pyrene** | **2,800** | 18.4 | | ug/Kg dry | 4.67 | 11.5 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Naphthalene** | **175** | 18.4 | | ug/Kg dry | 5.50 | 11.5 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Phenanthrene** | **6,230** | 18.4 | | ug/Kg dry | 4.51 | 9.18 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| **Pyrene** | **6,470** | 18.4 | | ug/Kg dry | 2.51 | 11.5 | 10/11/24 14:55 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 87%* | *Limits: 57-119* | | *10/11/24 14:55* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 86%* | *Limits: 54-133* | | *10/11/24 14:55* | *B24J0527* | *MS5* | 1 |

**Method: SW8270E / SW3550**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 89.5 | 134 | U | ug/Kg dry | 25.3 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 1,2-Dichlorobenzene | < 89.5 | 134 | U | ug/Kg dry | 23.3 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 1,3-Dichlorobenzene | < 67.1 | 134 | U | ug/Kg dry | 22.2 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 1,4-Dichlorobenzene | < 89.5 | 134 | U | ug/Kg dry | 21.3 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **1-Methylnaphthalene** | **89.5** | 134 | J | ug/Kg dry | 25.2 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2,4,5-Trichlorophenol | < 44.7 | 89.5 | U | ug/Kg dry | 15.9 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2,4,6-Trichlorophenol | < 44.7 | 89.5 | U | ug/Kg dry | 29.6 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2,4-Dichlorophenol | < 44.7 | 89.5 | U | ug/Kg dry | 14.3 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2,4-Dimethylphenol | < 134 | 268 | U | ug/Kg dry | 18.5 | 134 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2,4-Dinitrophenol | < 1,340 | 2,240 | U | ug/Kg dry | 304 | 1,340 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2,4-Dinitrotoluene | < 89.5 | 134 | U | ug/Kg dry | 29.5 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2,6-Dichlorophenol | < 44.7 | 89.5 | U | ug/Kg dry | 14.1 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2,6-Dinitrotoluene | < 44.7 | 89.5 | U | ug/Kg dry | 15.9 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2-Chloronaphthalene | < 44.7 | 89.5 | U | ug/Kg dry | 19.0 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2-Chlorophenol | < 44.7 | 89.5 | U | ug/Kg dry | 20.0 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **2-Methylnaphthalene** | **145** | 134 | | ug/Kg dry | 21.8 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2-Methylphenol | < 22.4 | 44.7 | U | ug/Kg dry | 10.3 | 22.4 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2-Nitroaniline | < 89.5 | 134 | U | ug/Kg dry | 27.2 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 2-Nitrophenol | < 89.5 | 134 | U | ug/Kg dry | 37.5 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:02
**Matrix:** Soil
**Lab ID:** O24J0276-01 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 3,3´-Dichlorobenzidine | < 268 | 537 | U | ug/Kg dry | 85.3 | 268 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 3 & 4-Methylphenol | < 89.5 | 179 | U | ug/Kg dry | 34.9 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 3-Nitroaniline | < 89.5 | 134 | U | ug/Kg dry | 47.6 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 4,6-Dinitro-2-methylphenol | < 1,790 | 3,580 | U | ug/Kg dry | 528 | 1,790 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 4-Bromophenyl-phenylether | < 67.1 | 134 | U | ug/Kg dry | 23.7 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 4-Chloro-3-methylphenol | < 44.7 | 89.5 | U | ug/Kg dry | 12.3 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 4-Chloroaniline | < 67.1 | 134 | U | ug/Kg dry | 21.5 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 4-Chlorophenyl-phenylether | < 67.1 | 134 | U | ug/Kg dry | 22.7 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 4-Nitroaniline | < 89.5 | 179 | U | ug/Kg dry | 17.8 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| 4-Nitrophenol | < 1,790 | 3,580 | U | ug/Kg dry | 594 | 1,790 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Acenaphthene** | **1,400** | 89.5 | | ug/Kg dry | 18.0 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Acenaphthylene** | **35.8** | 89.5 | J | ug/Kg dry | 20.2 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Aniline | < 537 | 895 | U | ug/Kg dry | 31.6 | 537 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Anthracene** | **2,130** | 134 | | ug/Kg dry | 25.8 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Azobenzene as 1,2-Diphenylhydrazine | < 44.7 | 89.5 | U | ug/Kg dry | 12.8 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Benzidine | < 3,580 | 14,900 | U | ug/Kg dry | 759 | 3,580 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Benzo(a)anthracene** | **5,910** | 134 | | ug/Kg dry | 22.4 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Benzo(a)pyrene** | **5,230** | 358 | | ug/Kg dry | 27.4 | 179 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Benzo(b)fluoranthene** | **7,900** | 134 | | ug/Kg dry | 35.9 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Benzo(g,h,i)perylene** | **3,530** | 179 | | ug/Kg dry | 19.9 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Benzo(k)fluoranthene** | **2,600** | 179 | | ug/Kg dry | 21.9 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Benzoic acid | < 1,790 | 7,160 | U | ug/Kg dry | 445 | 1,790 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Benzyl alcohol | < 67.1 | 134 | U | ug/Kg dry | 23.0 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Bis(2-chloroethoxy)methane | < 44.7 | 89.5 | U | ug/Kg dry | 19.6 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Bis(2-chloroethyl)ether | < 1,790 | 2,240 | U | ug/Kg dry | 237 | 1,790 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Bis(2-ethylhexyl)phthalate | < 537 | 895 | U | ug/Kg dry | 151 | 537 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Butyl benzyl phthalate | < 134 | 268 | U | ug/Kg dry | 37.1 | 134 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Carbazole** | **2,070** | 89.5 | | ug/Kg dry | 15.1 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Chrysene** | **6,360** | 89.5 | | ug/Kg dry | 14.2 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Dibenzo(a,h)anthracene** | **853** | 134 | | ug/Kg dry | 54.4 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Dibenzofuran** | **561** | 134 | | ug/Kg dry | 19.9 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Diethyl phthalate | < 537 | 895 | U | ug/Kg dry | 154 | 537 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Dimethyl phthalate | < 44.7 | 89.5 | U | ug/Kg dry | 18.0 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Di-n-butyl phthalate | < 134 | 268 | U | ug/Kg dry | 49.8 | 134 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Di-n-octyl phthalate | < 89.5 | 134 | U | ug/Kg dry | 32.8 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Fluoranthene** | **15,300** | 134 | | ug/Kg dry | 29.0 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Fluorene** | **960** | 89.5 | | ug/Kg dry | 17.6 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:02
**Matrix:** Soil
**Lab ID:** O24J0276-01 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| Hexachlorobenzene | < 44.7 | 89.5 | U | ug/Kg dry | 17.2 | 44.7 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Hexachlorobutadiene | < 89.5 | 179 | U | ug/Kg dry | 27.5 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Hexachlorocyclopentadiene | < 1,790 | 3,580 | U | ug/Kg dry | 337 | 1,790 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Hexachloroethane | < 89.5 | 179 | U | ug/Kg dry | 24.5 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Indeno(1,2,3-cd)pyrene** | **3,760** | 134 | | ug/Kg dry | 35.5 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Isophorone | < 67.1 | 134 | U | ug/Kg dry | 17.1 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Naphthalene** | **268** | 134 | | ug/Kg dry | 25.7 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Nitrobenzene | < 89.5 | 179 | U | ug/Kg dry | 23.2 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| N-Nitrosodimethylamine | < 89.5 | 179 | U | ug/Kg dry | 33.9 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| N-Nitrosodi-n-propylamine | < 134 | 268 | U | ug/Kg dry | 42.0 | 134 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| N-Nitrosodiphenylamine | < 89.5 | 134 | U | ug/Kg dry | 31.0 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| N-Nitrosopyrrolidine | < 89.5 | 134 | U | ug/Kg dry | 30.1 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Pentachlorophenol | < 1,340 | 2,240 | U | ug/Kg dry | 241 | 1,340 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Phenanthrene** | **11,800** | 134 | | ug/Kg dry | 23.2 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Phenol | < 89.5 | 179 | U | ug/Kg dry | 24.7 | 89.5 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| **Pyrene** | **11,000** | 134 | | ug/Kg dry | 24.7 | 67.1 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| Pyridine | < 1,790 | 3,580 | U | ug/Kg dry | 224 | 1,790 | 10/14/24 23:57 | B24J0296 | LP | 5 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 72%* | *Limits: 35-115* | | *10/14/24 23:57* | *B24J0296* | *LP* | 5 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 80%* | *Limits: 33-122* | | *10/14/24 23:57* | *B24J0296* | *LP* | 5 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 77%* | *Limits: 37-122* | | *10/14/24 23:57* | *B24J0296* | *LP* | 5 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 79%* | *Limits: 44-115* | | *10/14/24 23:57* | *B24J0296* | *LP* | 5 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 82%* | *Limits: 39-132* | | *10/14/24 23:57* | *B24J0296* | *LP* | 5 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 85%* | *Limits: 54-127* | | *10/14/24 23:57* | *B24J0296* | *LP* | 5 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.117 | 0.234 | U | mg/Kg dry | 0.0445 | 0.117 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.586 | 0.703 | U | mg/Kg dry | 0.255 | 0.586 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.703 | 0.937 | U | mg/Kg dry | 0.334 | 0.703 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.234 | 0.351 | U | mg/Kg dry | 0.0773 | 0.234 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.234 | 0.351 | U | mg/Kg dry | 0.0715 | 0.234 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.117 | 0.234 | U | mg/Kg dry | 0.0387 | 0.117 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.293 | 0.351 | U | mg/Kg dry | 0.137 | 0.293 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.117 | 0.351 | U | mg/Kg dry | 0.0316 | 0.117 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.234 | 0.351 | U | mg/Kg dry | 0.0644 | 0.234 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.703 | 0.937 | U | mg/Kg dry | 0.334 | 0.703 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 82%* | *Limits: 10-127* | | *10/08/24 23:30* | *B24J0270* | *AY1* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:02
**Matrix:** Soil
**Lab ID:** O24J0276-01 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8082A / SW3546 (Continued)** | | | | | | | | | | |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 74%* | *Limits: 44-130* | | *10/08/24 23:30* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.69 | 9.37 | U | ug/Kg dry | 1.78 | 4.69 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.34 | 4.69 | U | ug/Kg dry | 1.16 | 2.34 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.69 | 9.37 | U | ug/Kg dry | 2.30 | 4.69 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.34 | 4.69 | U | ug/Kg dry | 0.695 | 2.34 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.34 | 4.69 | U | ug/Kg dry | 1.03 | 2.34 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.34 | 4.69 | U | ug/Kg dry | 0.828 | 2.34 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.69 | 9.37 | U | ug/Kg dry | 1.31 | 4.69 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Chlordane | < 23.4 | 46.9 | U | ug/Kg dry | 11.3 | 23.4 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.34 | 4.69 | U | ug/Kg dry | 1.10 | 2.34 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.34 | 4.69 | U | ug/Kg dry | 0.729 | 2.34 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.34 | 4.69 | U | ug/Kg dry | 1.12 | 2.34 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.34 | 4.69 | U | ug/Kg dry | 1.06 | 2.34 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.69 | 9.37 | U | ug/Kg dry | 1.23 | 4.69 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| Endrin | < 2.34 | 4.69 | U | ug/Kg dry | 0.844 | 2.34 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 4.69 | 9.37 | U | ug/Kg dry | 1.37 | 4.69 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.69 | 9.37 | U | ug/Kg dry | 1.45 | 4.69 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.34 | 4.69 | U | ug/Kg dry | 0.996 | 2.34 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.69 | 9.37 | U | ug/Kg dry | 2.01 | 4.69 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.34 | 4.69 | U | ug/Kg dry | 1.15 | 2.34 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.34 | 4.69 | U | ug/Kg dry | 1.29 | 2.34 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.69 | 9.37 | U | ug/Kg dry | 2.25 | 4.69 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| Toxaphene | < 293 | 586 | U | ug/Kg dry | 197 | 293 | 10/17/24 19:56 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 88%* | *Limits: 23-110* | | *10/17/24 19:56* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 91%* | *Limits: 42-129* | | *10/17/24 19:56* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **18,000** | 61.0 | D | mg/Kg dry | 8.44 | 48.8 | 10/09/24 15:22 | B24J0437 | CS2 | 10 |
| Antimony | < 0.975 | 1.22 | U | mg/Kg dry | 0.488 | 0.975 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Arsenic** | **4.87** | 1.22 | | mg/Kg dry | 0.351 | 0.975 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Barium** | **217** | 1.22 | | mg/Kg dry | 0.190 | 0.488 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.261** | 0.122 | | mg/Kg dry | 0.0293 | 0.0975 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Cadmium** | **1.47** | 0.122 | | mg/Kg dry | 0.0244 | 0.0488 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:02
**Matrix:** Soil
**Lab ID:** O24J0276-01 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Metals by ICP-AES (Continued)*** | | | | | | | | | | |
| **Method: SW6010D / SW3050 (Continued)** | | | | | | | | | | |
| **Calcium** | **5,210** | 122 | D, B | mg/Kg dry | 48.8 | 97.5 | 10/09/24 15:22 | B24J0437 | CS2 | 10 |
| **Chromium** | **28.0** | 1.22 | | mg/Kg dry | 0.336 | 0.975 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Cobalt** | **7.09** | 1.22 | | mg/Kg dry | 0.190 | 0.488 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Copper** | **97.6** | 1.22 | | mg/Kg dry | 0.288 | 0.975 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Iron** | **22,600** | 61.0 | D, B | mg/Kg dry | 29.3 | 58.5 | 10/09/24 15:22 | B24J0437 | CS2 | 10 |
| **Lead** | **177** | 1.22 | | mg/Kg dry | 0.293 | 0.975 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Magnesium** | **1,790** | 6.06 | | mg/Kg dry | 1.94 | 5.82 | 11/11/24 12:15 | B24K0386 | CS2 | 1 |
| **Manganese** | **338** | 1.22 | | mg/Kg dry | 0.205 | 0.488 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Nickel** | **15.4** | 1.22 | | mg/Kg dry | 0.215 | 0.488 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Potassium** | **1,030** | 12.2 | B | mg/Kg dry | 7.56 | 11.7 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| Selenium | < 0.975 | 1.22 | U, Q | mg/Kg dry | 0.351 | 0.975 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| Silver | < 0.975 | 1.22 | U | mg/Kg dry | 0.244 | 0.975 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Sodium** | **39.6** | 12.1 | | mg/Kg dry | 5.82 | 11.6 | 11/11/24 12:15 | B24K0386 | CS2 | 1 |
| Thallium | < 0.975 | 1.22 | U | mg/Kg dry | 0.468 | 0.975 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Vanadium** | **30.9** | 1.22 | | mg/Kg dry | 0.166 | 0.488 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| **Zinc** | **214** | 4.88 | | mg/Kg dry | 1.05 | 2.44 | 10/09/24 13:35 | B24J0437 | CS2 | 1 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| **Mercury** | **0.102** | 0.0523 | | mg/Kg dry | 0.0157 | 0.0314 | 10/15/24 11:29 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **83.5** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/10/24 00:00 | B24J0405 | AS8 | 1 |

sterling labs - O'Hare Location

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-8-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:59
**Matrix:** Soil
**Lab ID:** O24J0276-02

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.977 | 1.95 | U | ug/Kg dry | 0.395 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.977 | 1.95 | U | ug/Kg dry | 0.400 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.977 | 1.95 | U | ug/Kg dry | 0.348 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.977 | 1.95 | U | ug/Kg dry | 0.428 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.95 | 3.91 | U | ug/Kg dry | 0.530 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethene | < 0.977 | 1.95 | U | ug/Kg dry | 0.423 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,1-Dichloropropene | < 9.77 | 19.5 | U | ug/Kg dry | 2.77 | 9.77 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 19.5 | 39.1 | U, Q | ug/Kg dry | 6.33 | 19.5 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 9.77 | 19.5 | U | ug/Kg dry | 3.74 | 9.77 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 19.5 | 39.1 | U | ug/Kg dry | 6.21 | 19.5 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 3.91 | 7.81 | U | ug/Kg dry | 1.05 | 3.91 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.91 | 7.81 | U | ug/Kg dry | 1.62 | 3.91 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.977 | 1.95 | U | ug/Kg dry | 0.265 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 4.88 | 9.77 | U | ug/Kg dry | 1.71 | 4.88 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.977 | 1.95 | U | ug/Kg dry | 0.401 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.977 | 1.95 | U | ug/Kg dry | 0.472 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.95 | 3.91 | U | ug/Kg dry | 0.976 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.95 | 3.91 | U | ug/Kg dry | 0.700 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.977 | 1.95 | U | ug/Kg dry | 0.437 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,4-Dioxane | < 39.1 | 78.1 | U, Q | ug/Kg dry | 15.0 | 39.1 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 4.88 | 9.77 | U | ug/Kg dry | 1.79 | 4.88 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1-Propanol | < 97.7 | 195 | U | ug/Kg dry | 31.0 | 97.7 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.977 | 1.95 | U | ug/Kg dry | 0.323 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 2-Butanone | < 13.7 | 27.3 | U | ug/Kg dry | 6.65 | 13.7 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 48.8 | 97.7 | U | ug/Kg dry | 19.5 | 48.8 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 2-Chlorotoluene | < 1.95 | 3.91 | U | ug/Kg dry | 0.856 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 2-Hexanone | < 13.7 | 27.3 | U | ug/Kg dry | 5.18 | 13.7 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 4-Chlorotoluene | < 1.95 | 3.91 | U | ug/Kg dry | 0.856 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 4-Isopropyltoluene | < 3.91 | 7.81 | U | ug/Kg dry | 1.14 | 3.91 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 13.7 | 27.3 | U | ug/Kg dry | 3.98 | 13.7 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Acetone | < 34.2 | 68.4 | U | ug/Kg dry | 11.8 | 34.2 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Acetonitrile | < 97.7 | 195 | U | ug/Kg dry | 30.5 | 97.7 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Acrolein | < 19.5 | 39.1 | U | ug/Kg dry | 8.20 | 19.5 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Acrylonitrile | < 1.95 | 3.91 | U | ug/Kg dry | 0.957 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Benzene | < 0.977 | 1.95 | U | ug/Kg dry | 0.281 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Bromobenzene | < 1.95 | 3.91 | U | ug/Kg dry | 0.549 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Bromochloromethane | < 1.95 | 3.91 | U | ug/Kg dry | 0.685 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-8-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:59
**Matrix:** Soil
**Lab ID:** O24J0276-02 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.977 | 1.95 | U | ug/Kg dry | 0.470 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Bromoform | < 1.95 | 3.91 | U | ug/Kg dry | 0.615 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Bromomethane | < 9.77 | 19.5 | U, Q | ug/Kg dry | 2.35 | 9.77 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| **Carbon disulfide** | **2.21** | 3.91 | J | ug/Kg dry | 0.588 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Carbon tetrachloride | < 9.77 | 19.5 | U | ug/Kg dry | 2.73 | 9.77 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Chlorobenzene | < 1.95 | 3.91 | U | ug/Kg dry | 0.508 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Chloroethane | < 3.91 | 7.81 | U | ug/Kg dry | 1.38 | 3.91 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Chloroform | < 1.95 | 3.91 | U | ug/Kg dry | 0.714 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Chloromethane | < 3.91 | 7.81 | U | ug/Kg dry | 1.43 | 3.91 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| cis-1,2-Dichloroethene | < 1.95 | 3.91 | U | ug/Kg dry | 0.557 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 1.95 | 3.91 | U | ug/Kg dry | 0.676 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Cyclohexane | < 4.88 | 9.77 | U | ug/Kg dry | 1.50 | 4.88 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Dibromochloromethane | < 0.977 | 1.95 | U | ug/Kg dry | 0.465 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Dibromomethane | < 0.977 | 1.95 | U | ug/Kg dry | 0.357 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Dichlorodifluoromethane | < 4.88 | 9.77 | U | ug/Kg dry | 1.18 | 4.88 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Ethylbenzene | < 3.91 | 7.81 | U | ug/Kg dry | 1.01 | 3.91 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Isobutanol | < 39.1 | 78.1 | U | ug/Kg dry | 10.4 | 39.1 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Isopropanol | < 39.1 | 78.1 | U | ug/Kg dry | 16.9 | 39.1 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Isopropylbenzene | < 1.95 | 3.91 | U | ug/Kg dry | 0.970 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| m,p-Xylene | < 3.91 | 7.81 | U | ug/Kg dry | 1.58 | 3.91 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.977 | 1.95 | U | ug/Kg dry | 0.327 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Methylene chloride | < 9.77 | 19.5 | U | ug/Kg dry | 3.84 | 9.77 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| n-Butylbenzene | < 9.77 | 19.5 | U, Q | ug/Kg dry | 2.79 | 9.77 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| n-Propylbenzene | < 1.95 | 3.91 | U | ug/Kg dry | 0.935 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Naphthalene | < 19.5 | 39.1 | U, Q | ug/Kg dry | 9.70 | 19.5 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| o-Xylene | < 3.91 | 7.81 | U | ug/Kg dry | 0.998 | 3.91 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| sec-Butylbenzene | < 1.95 | 3.91 | U, Q | ug/Kg dry | 0.959 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Styrene | < 3.91 | 7.81 | U | ug/Kg dry | 1.07 | 3.91 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| tert-Butylbenzene | < 1.95 | 3.91 | U | ug/Kg dry | 0.371 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Tetrachloroethene | < 1.95 | 3.91 | U | ug/Kg dry | 0.571 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Tetrahydrofuran | < 4.88 | 9.77 | U | ug/Kg dry | 1.41 | 4.88 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Toluene | < 0.977 | 1.95 | U | ug/Kg dry | 0.353 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 1.95 | 3.91 | U | ug/Kg dry | 0.904 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.95 | 3.91 | U | ug/Kg dry | 0.799 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Trichloroethene | < 0.977 | 1.95 | U | ug/Kg dry | 0.474 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Trichlorofluoromethane | < 0.977 | 1.95 | U | ug/Kg dry | 0.405 | 0.977 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Vinyl acetate | < 1.95 | 3.91 | U, Q | ug/Kg dry | 0.498 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-8-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:59
**Matrix:** Soil
**Lab ID:** O24J0276-02 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 1.95 | 3.91 | U | ug/Kg dry | 0.698 | 1.95 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| Xylenes, Total | < 5.86 | 11.7 | U | ug/Kg dry | 2.50 | 5.86 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethene, Total | < 3.91 | 7.81 | U | ug/Kg dry | 1.28 | 3.91 | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 111%* | *Limits: 78-119* | | *10/08/24 12:23* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 116%* | *Limits: 71-136* | | *10/08/24 12:23* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 101%* | *Limits: 81-114* | | *10/08/24 12:23* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 100%* | *Limits: 85-116* | | *10/08/24 12:23* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 101%* | *Limits: 79-119* | | *10/08/24 12:23* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 103%* | *Limits: 78-121* | | *10/08/24 12:23* | *B24J0623* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| No TICs found | | | | ug/Kg | | | 10/08/24 12:23 | B24J0623 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| 1-Methylnaphthalene | < 9.90 | 19.8 | U | ug/Kg dry | 3.16 | 9.90 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 9.90 | 19.8 | U | ug/Kg dry | 3.36 | 9.90 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Acenaphthene | < 9.90 | 19.8 | U | ug/Kg dry | 3.61 | 9.90 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 12.4 | 19.8 | U | ug/Kg dry | 5.37 | 12.4 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Anthracene | < 12.4 | 19.8 | U | ug/Kg dry | 5.05 | 12.4 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| **Benzo(a)anthracene** | **4.12** | 19.8 | J | ug/Kg dry | 3.95 | 9.90 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Benzo(a)pyrene | < 9.90 | 19.8 | U | ug/Kg dry | 3.02 | 9.90 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 12.4 | 19.8 | U | ug/Kg dry | 6.37 | 12.4 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 12.4 | 19.8 | U | ug/Kg dry | 6.17 | 12.4 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 12.4 | 19.8 | U | ug/Kg dry | 5.16 | 12.4 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Chrysene | < 9.90 | 19.8 | U | ug/Kg dry | 4.16 | 9.90 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 12.4 | 19.8 | U | ug/Kg dry | 5.00 | 12.4 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Fluoranthene | < 12.4 | 19.8 | U | ug/Kg dry | 6.16 | 12.4 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Fluorene | < 9.90 | 19.8 | U | ug/Kg dry | 4.72 | 9.90 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Indeno(1,2,3-cd)pyrene | < 12.4 | 19.8 | U | ug/Kg dry | 5.03 | 12.4 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Naphthalene | < 12.4 | 19.8 | U | ug/Kg dry | 5.93 | 12.4 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Phenanthrene | < 9.90 | 19.8 | U | ug/Kg dry | 4.86 | 9.90 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| Pyrene | < 12.4 | 19.8 | U | ug/Kg dry | 2.71 | 12.4 | 10/11/24 15:16 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 90%* | *Limits: 57-119* | | *10/11/24 15:16* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 81%* | *Limits: 54-133* | | *10/11/24 15:16* | *B24J0527* | *MS5* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-8-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:59
**Matrix:** Soil
**Lab ID:** O24J0276-02 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 18.8 | 28.2 | U | ug/Kg dry | 5.32 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 18.8 | 28.2 | U | ug/Kg dry | 4.90 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 14.1 | 28.2 | U | ug/Kg dry | 4.66 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 18.8 | 28.2 | U | ug/Kg dry | 4.47 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 14.1 | 28.2 | U | ug/Kg dry | 5.30 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 9.42 | 18.8 | U | ug/Kg dry | 3.34 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 9.42 | 18.8 | U | ug/Kg dry | 6.23 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 9.42 | 18.8 | U | ug/Kg dry | 3.01 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 28.2 | 56.5 | U | ug/Kg dry | 3.88 | 28.2 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 282 | 471 | U | ug/Kg dry | 64.0 | 282 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 18.8 | 28.2 | U | ug/Kg dry | 6.21 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 9.42 | 18.8 | U | ug/Kg dry | 2.97 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 9.42 | 18.8 | U | ug/Kg dry | 3.35 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 9.42 | 18.8 | U | ug/Kg dry | 4.00 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 9.42 | 18.8 | U | ug/Kg dry | 4.20 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 14.1 | 28.2 | U | ug/Kg dry | 4.59 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.71 | 9.42 | U | ug/Kg dry | 2.16 | 4.71 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2-Nitroaniline | < 18.8 | 28.2 | U | ug/Kg dry | 5.73 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 18.8 | 28.2 | U | ug/Kg dry | 7.90 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 56.5 | 113 | U | ug/Kg dry | 17.9 | 56.5 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 18.8 | 37.7 | U | ug/Kg dry | 7.35 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 18.8 | 28.2 | U | ug/Kg dry | 10.0 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 377 | 753 | U | ug/Kg dry | 111 | 377 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 14.1 | 28.2 | U | ug/Kg dry | 4.99 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 9.42 | 18.8 | U | ug/Kg dry | 2.58 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 14.1 | 28.2 | U | ug/Kg dry | 4.52 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 14.1 | 28.2 | U | ug/Kg dry | 4.77 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 18.8 | 37.7 | U | ug/Kg dry | 3.74 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 377 | 753 | U | ug/Kg dry | 125 | 377 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Acenaphthene | < 9.42 | 18.8 | U | ug/Kg dry | 3.78 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Acenaphthylene | < 9.42 | 18.8 | U | ug/Kg dry | 4.25 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Aniline | < 113 | 188 | U | ug/Kg dry | 6.66 | 113 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Anthracene | < 14.1 | 28.2 | U | ug/Kg dry | 5.43 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 9.42 | 18.8 | U | ug/Kg dry | 2.69 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Benzidine | < 753 | 3,140 | U | ug/Kg dry | 160 | 753 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 14.1 | 28.2 | U | ug/Kg dry | 4.72 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 37.7 | 75.3 | U | ug/Kg dry | 5.77 | 37.7 | 10/14/24 21:11 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-8-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:59
**Matrix:** Soil
**Lab ID:** O24J0276-02 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzo(b)fluoranthene | < 18.8 | 28.2 | U | ug/Kg dry | 7.56 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 18.8 | 37.7 | U | ug/Kg dry | 4.18 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 18.8 | 37.7 | U | ug/Kg dry | 4.60 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Benzoic acid | < 377 | 1,510 | U | ug/Kg dry | 93.6 | 377 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 14.1 | 28.2 | U | ug/Kg dry | 4.84 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 9.42 | 18.8 | U | ug/Kg dry | 4.12 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 377 | 471 | U | ug/Kg dry | 49.9 | 377 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 113 | 188 | U | ug/Kg dry | 31.9 | 113 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 28.2 | 56.5 | U | ug/Kg dry | 7.80 | 28.2 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Carbazole | < 9.42 | 18.8 | U | ug/Kg dry | 3.17 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Chrysene | < 9.42 | 18.8 | U | ug/Kg dry | 3.00 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 14.1 | 28.2 | U | ug/Kg dry | 11.4 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Dibenzofuran | < 14.1 | 28.2 | U | ug/Kg dry | 4.19 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 113 | 188 | U | ug/Kg dry | 32.5 | 113 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 9.42 | 18.8 | U | ug/Kg dry | 3.78 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 28.2 | 56.5 | U | ug/Kg dry | 10.5 | 28.2 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 18.8 | 28.2 | U | ug/Kg dry | 6.90 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Fluoranthene | < 18.8 | 28.2 | U | ug/Kg dry | 6.10 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Fluorene | < 9.42 | 18.8 | U | ug/Kg dry | 3.71 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 9.42 | 18.8 | U | ug/Kg dry | 3.62 | 9.42 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 18.8 | 37.7 | U | ug/Kg dry | 5.79 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 377 | 753 | U | ug/Kg dry | 70.8 | 377 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Hexachloroethane | < 18.8 | 37.7 | U | ug/Kg dry | 5.16 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 18.8 | 28.2 | U | ug/Kg dry | 7.46 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Isophorone | < 14.1 | 28.2 | U | ug/Kg dry | 3.60 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Naphthalene | < 18.8 | 28.2 | U | ug/Kg dry | 5.41 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Nitrobenzene | < 18.8 | 37.7 | U | ug/Kg dry | 4.88 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 18.8 | 37.7 | U | ug/Kg dry | 7.13 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 28.2 | 56.5 | U | ug/Kg dry | 8.83 | 28.2 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| N-Nitrosodiphenylamine | < 18.8 | 28.2 | U | ug/Kg dry | 6.53 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 18.8 | 28.2 | U | ug/Kg dry | 6.32 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 282 | 471 | U | ug/Kg dry | 50.7 | 282 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Phenanthrene | < 14.1 | 28.2 | U | ug/Kg dry | 4.88 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Phenol | < 18.8 | 37.7 | U | ug/Kg dry | 5.20 | 18.8 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| **Pyrene** | **5.65** | 28.2 | J | ug/Kg dry | 5.19 | 14.1 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| Pyridine | < 377 | 753 | U | ug/Kg dry | 47.1 | 377 | 10/14/24 21:11 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 67%* | *Limits: 35-115* | | *10/14/24 21:11* | *B24J0296* | *LP* | 1 |

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# Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-8-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:59
**Matrix:** Soil
**Lab ID:** O24J0276-02 (Continued)

## Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| *Surrogate: Phenol-d5* | | | | *Recovery: 72%* | *Limits: 33-122* | | *10/14/24 21:11* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 68%* | *Limits: 37-122* | | *10/14/24 21:11* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 71%* | *Limits: 44-115* | | *10/14/24 21:11* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 79%* | *Limits: 39-132* | | *10/14/24 21:11* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 77%* | *Limits: 54-127* | | *10/14/24 21:11* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.126 | 0.251 | U | mg/Kg dry | 0.0478 | 0.126 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.629 | 0.754 | U | mg/Kg dry | 0.274 | 0.629 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.754 | 1.01 | U | mg/Kg dry | 0.358 | 0.754 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.251 | 0.377 | U | mg/Kg dry | 0.0830 | 0.251 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.251 | 0.377 | U | mg/Kg dry | 0.0767 | 0.251 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.126 | 0.251 | U | mg/Kg dry | 0.0415 | 0.126 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.314 | 0.377 | U | mg/Kg dry | 0.147 | 0.314 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.126 | 0.377 | U | mg/Kg dry | 0.0339 | 0.126 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.251 | 0.377 | U | mg/Kg dry | 0.0692 | 0.251 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.754 | 1.01 | U | mg/Kg dry | 0.358 | 0.754 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 84%* | *Limits: 10-127* | | *10/08/24 23:47* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 77%* | *Limits: 44-130* | | *10/08/24 23:47* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 5.03 | 10.1 | U | ug/Kg dry | 1.91 | 5.03 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.51 | 5.03 | U | ug/Kg dry | 1.24 | 2.51 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 5.03 | 10.1 | U | ug/Kg dry | 2.47 | 5.03 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.51 | 5.03 | U | ug/Kg dry | 0.746 | 2.51 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.51 | 5.03 | U | ug/Kg dry | 1.11 | 2.51 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.51 | 5.03 | U | ug/Kg dry | 0.888 | 2.51 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| beta-BHC | < 5.03 | 10.1 | U | ug/Kg dry | 1.40 | 5.03 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Chlordane | < 25.1 | 50.3 | U | ug/Kg dry | 12.2 | 25.1 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.51 | 5.03 | U | ug/Kg dry | 1.18 | 2.51 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.51 | 5.03 | U | ug/Kg dry | 0.782 | 2.51 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.51 | 5.03 | U | ug/Kg dry | 1.20 | 2.51 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.51 | 5.03 | U | ug/Kg dry | 1.14 | 2.51 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 5.03 | 10.1 | U | ug/Kg dry | 1.32 | 5.03 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Endrin | < 2.51 | 5.03 | U | ug/Kg dry | 0.906 | 2.51 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-8-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:59
**Matrix:** Soil
**Lab ID:** O24J0276-02 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| **Endrin aldehyde** | **2.89** | 10.1 | J | ug/Kg dry | 1.47 | 5.03 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 5.03 | 10.1 | U | ug/Kg dry | 1.55 | 5.03 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.51 | 5.03 | U | ug/Kg dry | 1.07 | 2.51 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 5.03 | 10.1 | U | ug/Kg dry | 2.15 | 5.03 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.51 | 5.03 | U | ug/Kg dry | 1.23 | 2.51 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.51 | 5.03 | U | ug/Kg dry | 1.38 | 2.51 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 5.03 | 10.1 | U | ug/Kg dry | 2.42 | 5.03 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| Toxaphene | < 314 | 629 | U | ug/Kg dry | 212 | 314 | 10/17/24 20:13 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 89%* | *Limits: 23-110* | | *10/17/24 20:13* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 90%* | *Limits: 42-129* | | *10/17/24 20:13* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **16,400** | 73.3 | D | mg/Kg dry | 10.1 | 58.7 | 10/09/24 15:27 | B24J0437 | CS2 | 10 |
| Antimony | < 1.17 | 1.47 | U | mg/Kg dry | 0.587 | 1.17 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Arsenic** | **4.68** | 1.47 | | mg/Kg dry | 0.422 | 1.17 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Barium** | **77.6** | 1.47 | | mg/Kg dry | 0.229 | 0.587 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.176** | 0.147 | | mg/Kg dry | 0.0352 | 0.117 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.525** | 0.147 | | mg/Kg dry | 0.0293 | 0.0587 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Calcium** | **1,930** | 14.7 | B | mg/Kg dry | 5.87 | 11.7 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Chromium** | **20.2** | 1.47 | | mg/Kg dry | 0.405 | 1.17 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Cobalt** | **5.31** | 1.47 | | mg/Kg dry | 0.229 | 0.587 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Copper** | **16.4** | 1.47 | | mg/Kg dry | 0.346 | 1.17 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Iron** | **24,900** | 73.3 | D, B | mg/Kg dry | 35.2 | 70.4 | 10/09/24 15:27 | B24J0437 | CS2 | 10 |
| **Lead** | **46.5** | 1.47 | | mg/Kg dry | 0.352 | 1.17 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Magnesium** | **2,090** | 6.68 | | mg/Kg dry | 2.14 | 6.41 | 11/11/24 12:20 | B24K0386 | CS2 | 1 |
| **Manganese** | **190** | 1.47 | | mg/Kg dry | 0.246 | 0.587 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Nickel** | **17.1** | 1.47 | | mg/Kg dry | 0.258 | 0.587 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Potassium** | **923** | 14.7 | B | mg/Kg dry | 9.09 | 14.1 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| Selenium | < 1.17 | 1.47 | U, Q | mg/Kg dry | 0.422 | 1.17 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| Silver | < 1.17 | 1.47 | U | mg/Kg dry | 0.293 | 1.17 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Sodium** | **30.4** | 13.4 | | mg/Kg dry | 6.41 | 12.8 | 11/11/24 12:20 | B24K0386 | CS2 | 1 |
| Thallium | < 1.17 | 1.47 | U | mg/Kg dry | 0.563 | 1.17 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Vanadium** | **30.5** | 1.47 | | mg/Kg dry | 0.199 | 0.587 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |
| **Zinc** | **56.9** | 5.87 | | mg/Kg dry | 1.26 | 2.93 | 10/09/24 13:39 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-8-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 08:59
**Matrix:** Soil
**Lab ID:** O24J0276-02 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| **Mercury** | **0.0256** | 0.0608 | J | mg/Kg dry | 0.0182 | 0.0365 | 10/15/24 11:31 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **79.0** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/10/24 00:00 | B24J0405 | AS8 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:20
**Matrix:** Soil
**Lab ID:** O24J0276-03

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.879 | 1.76 | U | ug/Kg dry | 0.356 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.879 | 1.76 | U | ug/Kg dry | 0.360 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.879 | 1.76 | U | ug/Kg dry | 0.313 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.879 | 1.76 | U | ug/Kg dry | 0.385 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.76 | 3.51 | U | ug/Kg dry | 0.477 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethene | < 0.879 | 1.76 | U | ug/Kg dry | 0.381 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,1-Dichloropropene | < 8.79 | 17.6 | U | ug/Kg dry | 2.50 | 8.79 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 17.6 | 35.1 | U, Q | ug/Kg dry | 5.69 | 17.6 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 8.79 | 17.6 | U | ug/Kg dry | 3.37 | 8.79 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 17.6 | 35.1 | U | ug/Kg dry | 5.59 | 17.6 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 3.51 | 7.03 | U | ug/Kg dry | 0.946 | 3.51 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.51 | 7.03 | U | ug/Kg dry | 1.46 | 3.51 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.879 | 1.76 | U | ug/Kg dry | 0.239 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 4.39 | 8.79 | U | ug/Kg dry | 1.54 | 4.39 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.879 | 1.76 | U | ug/Kg dry | 0.361 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.879 | 1.76 | U | ug/Kg dry | 0.424 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.878 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.630 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.879 | 1.76 | U | ug/Kg dry | 0.393 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,4-Dioxane | < 35.1 | 70.3 | U, Q | ug/Kg dry | 13.5 | 35.1 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 4.39 | 8.79 | U | ug/Kg dry | 1.61 | 4.39 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1-Propanol | < 87.9 | 176 | U | ug/Kg dry | 27.9 | 87.9 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.879 | 1.76 | U | ug/Kg dry | 0.291 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 2-Butanone | < 12.3 | 24.6 | U | ug/Kg dry | 5.98 | 12.3 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 43.9 | 87.9 | U | ug/Kg dry | 17.6 | 43.9 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 2-Chlorotoluene | < 1.76 | 3.51 | U | ug/Kg dry | 0.770 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 2-Hexanone | < 12.3 | 24.6 | U | ug/Kg dry | 4.66 | 12.3 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 4-Chlorotoluene | < 1.76 | 3.51 | U | ug/Kg dry | 0.770 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 4-Isopropyltoluene | < 3.51 | 7.03 | U | ug/Kg dry | 1.03 | 3.51 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 12.3 | 24.6 | U | ug/Kg dry | 3.58 | 12.3 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Acetone | < 30.8 | 61.5 | U | ug/Kg dry | 10.6 | 30.8 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Acetonitrile | < 87.9 | 176 | U | ug/Kg dry | 27.4 | 87.9 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Acrolein | < 17.6 | 35.1 | U | ug/Kg dry | 7.37 | 17.6 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Acrylonitrile | < 1.76 | 3.51 | U | ug/Kg dry | 0.861 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Benzene | < 0.879 | 1.76 | U | ug/Kg dry | 0.253 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Bromobenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.494 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Bromochloromethane | < 1.76 | 3.51 | U | ug/Kg dry | 0.616 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:20
**Matrix:** Soil
**Lab ID:** O24J0276-03 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.879 | 1.76 | U | ug/Kg dry | 0.423 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Bromoform | < 1.76 | 3.51 | U | ug/Kg dry | 0.553 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Bromomethane | < 8.79 | 17.6 | U, Q | ug/Kg dry | 2.11 | 8.79 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Carbon disulfide | < 1.76 | 3.51 | U | ug/Kg dry | 0.529 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Carbon tetrachloride | < 8.79 | 17.6 | U | ug/Kg dry | 2.45 | 8.79 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Chlorobenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.457 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Chloroethane | < 3.51 | 7.03 | U | ug/Kg dry | 1.24 | 3.51 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Chloroform | < 1.76 | 3.51 | U | ug/Kg dry | 0.643 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Chloromethane | < 3.51 | 7.03 | U | ug/Kg dry | 1.28 | 3.51 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| cis-1,2-Dichloroethene | < 1.76 | 3.51 | U | ug/Kg dry | 0.501 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 1.76 | 3.51 | U | ug/Kg dry | 0.608 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Cyclohexane | < 4.39 | 8.79 | U | ug/Kg dry | 1.35 | 4.39 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Dibromochloromethane | < 0.879 | 1.76 | U | ug/Kg dry | 0.418 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Dibromomethane | < 0.879 | 1.76 | U | ug/Kg dry | 0.321 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Dichlorodifluoromethane | < 4.39 | 8.79 | U | ug/Kg dry | 1.06 | 4.39 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Ethylbenzene | < 3.51 | 7.03 | U | ug/Kg dry | 0.909 | 3.51 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Isobutanol | < 35.1 | 70.3 | U | ug/Kg dry | 9.35 | 35.1 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Isopropanol | < 35.1 | 70.3 | U | ug/Kg dry | 15.2 | 35.1 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Isopropylbenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.873 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| m,p-Xylene | < 3.51 | 7.03 | U | ug/Kg dry | 1.42 | 3.51 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.879 | 1.76 | U | ug/Kg dry | 0.294 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Methylene chloride | < 8.79 | 17.6 | U | ug/Kg dry | 3.45 | 8.79 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| n-Butylbenzene | < 8.79 | 17.6 | U, Q | ug/Kg dry | 2.51 | 8.79 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| n-Propylbenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.841 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Naphthalene | < 17.6 | 35.1 | U, Q | ug/Kg dry | 8.72 | 17.6 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| o-Xylene | < 3.51 | 7.03 | U | ug/Kg dry | 0.897 | 3.51 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| sec-Butylbenzene | < 1.76 | 3.51 | U, Q | ug/Kg dry | 0.862 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Styrene | < 3.51 | 7.03 | U | ug/Kg dry | 0.964 | 3.51 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| tert-Butylbenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.334 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Tetrachloroethene | < 1.76 | 3.51 | U | ug/Kg dry | 0.513 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Tetrahydrofuran | < 4.39 | 8.79 | U | ug/Kg dry | 1.27 | 4.39 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Toluene | < 0.879 | 1.76 | U | ug/Kg dry | 0.318 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 1.76 | 3.51 | U | ug/Kg dry | 0.813 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.76 | 3.51 | U | ug/Kg dry | 0.719 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Trichloroethene | < 0.879 | 1.76 | U | ug/Kg dry | 0.426 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Trichlorofluoromethane | < 0.879 | 1.76 | U | ug/Kg dry | 0.364 | 0.879 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Vinyl acetate | < 1.76 | 3.51 | U, Q | ug/Kg dry | 0.448 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:20
**Matrix:** Soil
**Lab ID:** O24J0276-03 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 1.76 | 3.51 | U | ug/Kg dry | 0.628 | 1.76 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| Xylenes, Total | < 5.27 | 10.5 | U | ug/Kg dry | 2.25 | 5.27 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethene, Total | < 3.51 | 7.03 | U | ug/Kg dry | 1.15 | 3.51 | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 111%* | *Limits: 78-119* | | *10/08/24 12:52* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 114%* | *Limits: 71-136* | | *10/08/24 12:52* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 101%* | *Limits: 81-114* | | *10/08/24 12:52* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 97%* | *Limits: 85-116* | | *10/08/24 12:52* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 104%* | *Limits: 79-119* | | *10/08/24 12:52* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 104%* | *Limits: 78-121* | | *10/08/24 12:52* | *B24J0623* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| No TICs found | | | | ug/Kg | | | 10/08/24 12:52 | B24J0623 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| 1-Methylnaphthalene | < 9.62 | 19.2 | U | ug/Kg dry | 3.07 | 9.62 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 9.62 | 19.2 | U | ug/Kg dry | 3.26 | 9.62 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Acenaphthene | < 9.62 | 19.2 | U | ug/Kg dry | 3.51 | 9.62 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 12.0 | 19.2 | U | ug/Kg dry | 5.22 | 12.0 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Anthracene | < 12.0 | 19.2 | U | ug/Kg dry | 4.91 | 12.0 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Benzo(a)anthracene | < 9.62 | 19.2 | U | ug/Kg dry | 3.84 | 9.62 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Benzo(a)pyrene | < 9.62 | 19.2 | U | ug/Kg dry | 2.93 | 9.62 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 12.0 | 19.2 | U | ug/Kg dry | 6.19 | 12.0 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 12.0 | 19.2 | U | ug/Kg dry | 6.00 | 12.0 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 12.0 | 19.2 | U | ug/Kg dry | 5.02 | 12.0 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Chrysene | < 9.62 | 19.2 | U | ug/Kg dry | 4.04 | 9.62 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 12.0 | 19.2 | U | ug/Kg dry | 4.86 | 12.0 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Fluoranthene | < 12.0 | 19.2 | U | ug/Kg dry | 5.99 | 12.0 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Fluorene | < 9.62 | 19.2 | U | ug/Kg dry | 4.59 | 9.62 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Indeno(1,2,3-cd)pyrene | < 12.0 | 19.2 | U | ug/Kg dry | 4.89 | 12.0 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Naphthalene | < 12.0 | 19.2 | U | ug/Kg dry | 5.77 | 12.0 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Phenanthrene | < 9.62 | 19.2 | U | ug/Kg dry | 4.72 | 9.62 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| Pyrene | < 12.0 | 19.2 | U | ug/Kg dry | 2.63 | 12.0 | 10/11/24 15:37 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 88%* | *Limits: 57-119* | | *10/11/24 15:37* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 82%* | *Limits: 54-133* | | *10/11/24 15:37* | *B24J0527* | *MS5* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:20
**Matrix:** Soil
**Lab ID:** O24J0276-03 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 18.3 | 27.4 | U | ug/Kg dry | 5.16 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 18.3 | 27.4 | U | ug/Kg dry | 4.75 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 13.7 | 27.4 | U | ug/Kg dry | 4.52 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 18.3 | 27.4 | U | ug/Kg dry | 4.34 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 13.7 | 27.4 | U | ug/Kg dry | 5.13 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 9.13 | 18.3 | U | ug/Kg dry | 3.24 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 9.13 | 18.3 | U | ug/Kg dry | 6.04 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 9.13 | 18.3 | U | ug/Kg dry | 2.92 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 27.4 | 54.8 | U | ug/Kg dry | 3.76 | 27.4 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 274 | 456 | U | ug/Kg dry | 62.1 | 274 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 18.3 | 27.4 | U | ug/Kg dry | 6.02 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 9.13 | 18.3 | U | ug/Kg dry | 2.88 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 9.13 | 18.3 | U | ug/Kg dry | 3.25 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 9.13 | 18.3 | U | ug/Kg dry | 3.88 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 9.13 | 18.3 | U | ug/Kg dry | 4.07 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 13.7 | 27.4 | U | ug/Kg dry | 4.45 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.56 | 9.13 | U | ug/Kg dry | 2.10 | 4.56 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2-Nitroaniline | < 18.3 | 27.4 | U | ug/Kg dry | 5.55 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 18.3 | 27.4 | U | ug/Kg dry | 7.66 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 54.8 | 110 | U | ug/Kg dry | 17.4 | 54.8 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 18.3 | 36.5 | U | ug/Kg dry | 7.12 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 18.3 | 27.4 | U | ug/Kg dry | 9.71 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 365 | 730 | U | ug/Kg dry | 108 | 365 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 13.7 | 27.4 | U | ug/Kg dry | 4.83 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 9.13 | 18.3 | U | ug/Kg dry | 2.50 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 13.7 | 27.4 | U | ug/Kg dry | 4.39 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 13.7 | 27.4 | U | ug/Kg dry | 4.63 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 18.3 | 36.5 | U | ug/Kg dry | 3.62 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 365 | 730 | U | ug/Kg dry | 121 | 365 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Acenaphthene | < 9.13 | 18.3 | U | ug/Kg dry | 3.66 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Acenaphthylene | < 9.13 | 18.3 | U | ug/Kg dry | 4.12 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Aniline | < 110 | 183 | U | ug/Kg dry | 6.45 | 110 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Anthracene | < 13.7 | 27.4 | U | ug/Kg dry | 5.27 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 9.13 | 18.3 | U | ug/Kg dry | 2.61 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Benzidine | < 730 | 3,040 | U | ug/Kg dry | 155 | 730 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 13.7 | 27.4 | U | ug/Kg dry | 4.58 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 36.5 | 73.0 | U | ug/Kg dry | 5.59 | 36.5 | 10/14/24 21:32 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:20
**Matrix:** Soil
**Lab ID:** O24J0276-03 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzo(b)fluoranthene | < 18.3 | 27.4 | U | ug/Kg dry | 7.32 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 18.3 | 36.5 | U | ug/Kg dry | 4.06 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 18.3 | 36.5 | U | ug/Kg dry | 4.46 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Benzoic acid | < 365 | 1,460 | U | ug/Kg dry | 90.7 | 365 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 13.7 | 27.4 | U | ug/Kg dry | 4.69 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 9.13 | 18.3 | U | ug/Kg dry | 4.00 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 365 | 456 | U | ug/Kg dry | 48.4 | 365 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 110 | 183 | U | ug/Kg dry | 30.9 | 110 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 27.4 | 54.8 | U | ug/Kg dry | 7.56 | 27.4 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Carbazole | < 9.13 | 18.3 | U | ug/Kg dry | 3.08 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Chrysene | < 9.13 | 18.3 | U | ug/Kg dry | 2.91 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 13.7 | 27.4 | U | ug/Kg dry | 11.1 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Dibenzofuran | < 13.7 | 27.4 | U | ug/Kg dry | 4.06 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 110 | 183 | U | ug/Kg dry | 31.5 | 110 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 9.13 | 18.3 | U | ug/Kg dry | 3.66 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 27.4 | 54.8 | U | ug/Kg dry | 10.2 | 27.4 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 18.3 | 27.4 | U | ug/Kg dry | 6.69 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Fluoranthene | < 18.3 | 27.4 | U | ug/Kg dry | 5.92 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Fluorene | < 9.13 | 18.3 | U | ug/Kg dry | 3.59 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 9.13 | 18.3 | U | ug/Kg dry | 3.51 | 9.13 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 18.3 | 36.5 | U | ug/Kg dry | 5.62 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 365 | 730 | U | ug/Kg dry | 68.6 | 365 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Hexachloroethane | < 18.3 | 36.5 | U | ug/Kg dry | 5.01 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 18.3 | 27.4 | U | ug/Kg dry | 7.23 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Isophorone | < 13.7 | 27.4 | U | ug/Kg dry | 3.49 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Naphthalene | < 18.3 | 27.4 | U | ug/Kg dry | 5.25 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Nitrobenzene | < 18.3 | 36.5 | U | ug/Kg dry | 4.73 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 18.3 | 36.5 | U | ug/Kg dry | 6.91 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 27.4 | 54.8 | U | ug/Kg dry | 8.56 | 27.4 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| N-Nitrosodiphenylamine | < 18.3 | 27.4 | U | ug/Kg dry | 6.33 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 18.3 | 27.4 | U | ug/Kg dry | 6.13 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 274 | 456 | U | ug/Kg dry | 49.1 | 274 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Phenanthrene | < 13.7 | 27.4 | U | ug/Kg dry | 4.73 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Phenol | < 18.3 | 36.5 | U | ug/Kg dry | 5.04 | 18.3 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Pyrene | < 13.7 | 27.4 | U | ug/Kg dry | 5.03 | 13.7 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| Pyridine | < 365 | 730 | U | ug/Kg dry | 45.7 | 365 | 10/14/24 21:32 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 77%* | *Limits: 35-115* | | *10/14/24 21:32* | *B24J0296* | *LP* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:20
**Matrix:** Soil
**Lab ID:** O24J0276-03 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| *Surrogate: Phenol-d5* | | | | *Recovery: 81%* | *Limits: 33-122* | | *10/14/24 21:32* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 76%* | *Limits: 37-122* | | *10/14/24 21:32* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 76%* | *Limits: 44-115* | | *10/14/24 21:32* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 82%* | *Limits: 39-132* | | *10/14/24 21:32* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 84%* | *Limits: 54-127* | | *10/14/24 21:32* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.120 | 0.241 | U | mg/Kg dry | 0.0457 | 0.120 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.602 | 0.722 | U | mg/Kg dry | 0.262 | 0.602 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.722 | 0.963 | U | mg/Kg dry | 0.343 | 0.722 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.241 | 0.361 | U | mg/Kg dry | 0.0794 | 0.241 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.241 | 0.361 | U | mg/Kg dry | 0.0734 | 0.241 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.120 | 0.241 | U | mg/Kg dry | 0.0397 | 0.120 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.301 | 0.361 | U | mg/Kg dry | 0.141 | 0.301 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.120 | 0.361 | U | mg/Kg dry | 0.0325 | 0.120 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.241 | 0.361 | U | mg/Kg dry | 0.0662 | 0.241 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.722 | 0.963 | U | mg/Kg dry | 0.343 | 0.722 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 98%* | *Limits: 10-127* | | *10/09/24 00:04* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 86%* | *Limits: 44-130* | | *10/09/24 00:04* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.81 | 9.63 | U | ug/Kg dry | 1.83 | 4.81 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.41 | 4.81 | U | ug/Kg dry | 1.19 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.81 | 9.63 | U | ug/Kg dry | 2.36 | 4.81 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.41 | 4.81 | U | ug/Kg dry | 0.714 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.41 | 4.81 | U | ug/Kg dry | 1.06 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.41 | 4.81 | U | ug/Kg dry | 0.850 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.81 | 9.63 | U | ug/Kg dry | 1.34 | 4.81 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Chlordane | < 24.1 | 48.1 | U | ug/Kg dry | 11.6 | 24.1 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.41 | 4.81 | U | ug/Kg dry | 1.13 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.41 | 4.81 | U | ug/Kg dry | 0.748 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.41 | 4.81 | U | ug/Kg dry | 1.15 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.41 | 4.81 | U | ug/Kg dry | 1.09 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.81 | 9.63 | U | ug/Kg dry | 1.27 | 4.81 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Endrin | < 2.41 | 4.81 | U | ug/Kg dry | 0.867 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:20
**Matrix:** Soil
**Lab ID:** O24J0276-03 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| Endrin aldehyde | < 4.81 | 9.63 | U | ug/Kg dry | 1.40 | 4.81 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.81 | 9.63 | U | ug/Kg dry | 1.49 | 4.81 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.41 | 4.81 | U | ug/Kg dry | 1.02 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.81 | 9.63 | U | ug/Kg dry | 2.06 | 4.81 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.41 | 4.81 | U | ug/Kg dry | 1.18 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.41 | 4.81 | U | ug/Kg dry | 1.32 | 2.41 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.81 | 9.63 | U | ug/Kg dry | 2.32 | 4.81 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| Toxaphene | < 301 | 602 | U | ug/Kg dry | 203 | 301 | 10/17/24 20:30 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 100%* | *Limits: 23-110* | | *10/17/24 20:30* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 101%* | *Limits: 42-129* | | *10/17/24 20:30* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **13,500** | 67.1 | D | mg/Kg dry | 9.29 | 53.7 | 10/09/24 15:31 | B24J0437 | CS2 | 10 |
| Antimony | < 1.07 | 1.34 | U | mg/Kg dry | 0.537 | 1.07 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| Arsenic | < 1.07 | 1.34 | U | mg/Kg dry | 0.387 | 1.07 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Barium** | **106** | 1.34 | | mg/Kg dry | 0.209 | 0.537 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.373** | 0.134 | | mg/Kg dry | 0.0322 | 0.107 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.389** | 0.134 | | mg/Kg dry | 0.0268 | 0.0537 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Calcium** | **2,290** | 13.4 | B | mg/Kg dry | 5.37 | 10.7 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Chromium** | **20.0** | 1.34 | | mg/Kg dry | 0.371 | 1.07 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Cobalt** | **5.58** | 1.34 | | mg/Kg dry | 0.209 | 0.537 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Copper** | **7.52** | 1.34 | | mg/Kg dry | 0.317 | 1.07 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Iron** | **15,300** | 67.1 | D, B | mg/Kg dry | 32.2 | 64.4 | 10/09/24 15:31 | B24J0437 | CS2 | 10 |
| **Lead** | **33.2** | 1.34 | | mg/Kg dry | 0.322 | 1.07 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Magnesium** | **1,500** | 6.43 | | mg/Kg dry | 2.06 | 6.17 | 11/11/24 12:24 | B24K0386 | CS2 | 1 |
| **Manganese** | **370** | 1.34 | | mg/Kg dry | 0.226 | 0.537 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Nickel** | **11.6** | 1.34 | | mg/Kg dry | 0.236 | 0.537 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Potassium** | **615** | 13.4 | B | mg/Kg dry | 8.32 | 12.9 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| Selenium | < 1.07 | 1.34 | U, Q | mg/Kg dry | 0.387 | 1.07 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| Silver | < 1.07 | 1.34 | U | mg/Kg dry | 0.268 | 1.07 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Sodium** | **30.5** | 12.9 | | mg/Kg dry | 6.17 | 12.3 | 11/11/24 12:24 | B24K0386 | CS2 | 1 |
| Thallium | < 1.07 | 1.34 | U | mg/Kg dry | 0.515 | 1.07 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Vanadium** | **27.3** | 1.34 | | mg/Kg dry | 0.183 | 0.537 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |
| **Zinc** | **31.4** | 5.37 | | mg/Kg dry | 1.15 | 2.68 | 10/09/24 13:44 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:20
**Matrix:** Soil
**Lab ID:** O24J0276-03 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| Mercury | < 0.0323 | 0.0538 | U | mg/Kg dry | 0.0161 | 0.0323 | 10/15/24 11:34 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **81.5** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/10/24 00:00 | B24J0405 | AS8 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-23-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:43
**Matrix:** Soil
**Lab ID:** O24J0276-04

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.833 | 1.67 | U | ug/Kg dry | 0.337 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.833 | 1.67 | U | ug/Kg dry | 0.341 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.833 | 1.67 | U | ug/Kg dry | 0.297 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.833 | 1.67 | U | ug/Kg dry | 0.366 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.67 | 3.33 | U | ug/Kg dry | 0.452 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethene | < 0.833 | 1.67 | U | ug/Kg dry | 0.361 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,1-Dichloropropene | < 8.33 | 16.7 | U | ug/Kg dry | 2.37 | 8.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 16.7 | 33.3 | U, Q | ug/Kg dry | 5.40 | 16.7 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 8.33 | 16.7 | U | ug/Kg dry | 3.19 | 8.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 16.7 | 33.3 | U | ug/Kg dry | 5.30 | 16.7 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 3.33 | 6.67 | U | ug/Kg dry | 0.898 | 3.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.33 | 6.67 | U | ug/Kg dry | 1.38 | 3.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.833 | 1.67 | U | ug/Kg dry | 0.227 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 4.17 | 8.33 | U | ug/Kg dry | 1.46 | 4.17 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.833 | 1.67 | U | ug/Kg dry | 0.342 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.833 | 1.67 | U | ug/Kg dry | 0.403 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.67 | 3.33 | U | ug/Kg dry | 0.833 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.67 | 3.33 | U | ug/Kg dry | 0.597 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.833 | 1.67 | U | ug/Kg dry | 0.373 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,4-Dioxane | < 33.3 | 66.7 | U, Q | ug/Kg dry | 12.8 | 33.3 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 4.17 | 8.33 | U | ug/Kg dry | 1.53 | 4.17 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1-Propanol | < 83.3 | 167 | U | ug/Kg dry | 26.5 | 83.3 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.833 | 1.67 | U | ug/Kg dry | 0.276 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 2-Butanone | < 11.7 | 23.3 | U | ug/Kg dry | 5.68 | 11.7 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 41.7 | 83.3 | U | ug/Kg dry | 16.7 | 41.7 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 2-Chlorotoluene | < 1.67 | 3.33 | U | ug/Kg dry | 0.731 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 2-Hexanone | < 11.7 | 23.3 | U | ug/Kg dry | 4.42 | 11.7 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 4-Chlorotoluene | < 1.67 | 3.33 | U | ug/Kg dry | 0.730 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 4-Isopropyltoluene | < 3.33 | 6.67 | U | ug/Kg dry | 0.976 | 3.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 11.7 | 23.3 | U | ug/Kg dry | 3.40 | 11.7 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| **Acetone** | **65.3** | 58.3 | | ug/Kg dry | 10.1 | 29.2 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Acetonitrile | < 83.3 | 167 | U | ug/Kg dry | 26.0 | 83.3 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Acrolein | < 16.7 | 33.3 | U | ug/Kg dry | 6.99 | 16.7 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Acrylonitrile | < 1.67 | 3.33 | U | ug/Kg dry | 0.817 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Benzene | < 0.833 | 1.67 | U | ug/Kg dry | 0.240 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Bromobenzene | < 1.67 | 3.33 | U | ug/Kg dry | 0.469 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Bromochloromethane | < 1.67 | 3.33 | U | ug/Kg dry | 0.584 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-23-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:43
**Matrix:** Soil
**Lab ID:** O24J0276-04 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.833 | 1.67 | U | ug/Kg dry | 0.401 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Bromoform | < 1.67 | 3.33 | U | ug/Kg dry | 0.525 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Bromomethane | < 8.33 | 16.7 | U, Q | ug/Kg dry | 2.00 | 8.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Carbon disulfide | < 1.67 | 3.33 | U | ug/Kg dry | 0.502 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Carbon tetrachloride | < 8.33 | 16.7 | U | ug/Kg dry | 2.33 | 8.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Chlorobenzene | < 1.67 | 3.33 | U | ug/Kg dry | 0.433 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Chloroethane | < 3.33 | 6.67 | U | ug/Kg dry | 1.18 | 3.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Chloroform | < 1.67 | 3.33 | U | ug/Kg dry | 0.609 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Chloromethane | < 3.33 | 6.67 | U | ug/Kg dry | 1.22 | 3.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| cis-1,2-Dichloroethene | < 1.67 | 3.33 | U | ug/Kg dry | 0.475 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 1.67 | 3.33 | U | ug/Kg dry | 0.577 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Cyclohexane | < 4.17 | 8.33 | U | ug/Kg dry | 1.28 | 4.17 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Dibromochloromethane | < 0.833 | 1.67 | U | ug/Kg dry | 0.396 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Dibromomethane | < 0.833 | 1.67 | U | ug/Kg dry | 0.305 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Dichlorodifluoromethane | < 4.17 | 8.33 | U | ug/Kg dry | 1.01 | 4.17 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Ethylbenzene | < 3.33 | 6.67 | U | ug/Kg dry | 0.862 | 3.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Isobutanol | < 33.3 | 66.7 | U | ug/Kg dry | 8.87 | 33.3 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Isopropanol | < 33.3 | 66.7 | U | ug/Kg dry | 14.4 | 33.3 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Isopropylbenzene | < 1.67 | 3.33 | U | ug/Kg dry | 0.828 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| m,p-Xylene | < 3.33 | 6.67 | U | ug/Kg dry | 1.35 | 3.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.833 | 1.67 | U | ug/Kg dry | 0.279 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Methylene chloride | < 8.33 | 16.7 | U | ug/Kg dry | 3.28 | 8.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| n-Butylbenzene | < 8.33 | 16.7 | U, Q | ug/Kg dry | 2.38 | 8.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| n-Propylbenzene | < 1.67 | 3.33 | U | ug/Kg dry | 0.797 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Naphthalene | < 16.7 | 33.3 | U, Q | ug/Kg dry | 8.28 | 16.7 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| o-Xylene | < 3.33 | 6.67 | U | ug/Kg dry | 0.851 | 3.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| sec-Butylbenzene | < 1.67 | 3.33 | U, Q | ug/Kg dry | 0.818 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Styrene | < 3.33 | 6.67 | U | ug/Kg dry | 0.914 | 3.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| tert-Butylbenzene | < 1.67 | 3.33 | U | ug/Kg dry | 0.317 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Tetrachloroethene | < 1.67 | 3.33 | U | ug/Kg dry | 0.487 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Tetrahydrofuran | < 4.17 | 8.33 | U | ug/Kg dry | 1.20 | 4.17 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Toluene | < 0.833 | 1.67 | U | ug/Kg dry | 0.301 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 1.67 | 3.33 | U | ug/Kg dry | 0.771 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.67 | 3.33 | U | ug/Kg dry | 0.682 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Trichloroethene | < 0.833 | 1.67 | U | ug/Kg dry | 0.404 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Trichlorofluoromethane | < 0.833 | 1.67 | U | ug/Kg dry | 0.345 | 0.833 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Vinyl acetate | < 1.67 | 3.33 | U, Q | ug/Kg dry | 0.425 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-23-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:43
**Matrix:** Soil
**Lab ID:** O24J0276-04 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 1.67 | 3.33 | U | ug/Kg dry | 0.595 | 1.67 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| Xylenes, Total | < 5.00 | 10.0 | U | ug/Kg dry | 2.13 | 5.00 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethene, Total | < 3.33 | 6.67 | U | ug/Kg dry | 1.09 | 3.33 | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 104%* | *Limits: 78-119* | | *10/08/24 13:20* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 109%* | *Limits: 71-136* | | *10/08/24 13:20* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 105%* | *Limits: 81-114* | | *10/08/24 13:20* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 100%* | *Limits: 85-116* | | *10/08/24 13:20* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 104%* | *Limits: 79-119* | | *10/08/24 13:20* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 104%* | *Limits: 78-121* | | *10/08/24 13:20* | *B24J0623* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **1-Hexanol, 2-ethyl-** | **1.50** | | | ug/Kg | | | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| **Acetaldehyde** | **3.46** | | | ug/Kg | | | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| **unknown** | **1.48** | | | ug/Kg | | | 10/08/24 13:20 | B24J0623 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| 1-Methylnaphthalene | < 9.33 | 18.7 | U | ug/Kg dry | 2.97 | 9.33 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 9.33 | 18.7 | U | ug/Kg dry | 3.16 | 9.33 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Acenaphthene | < 9.33 | 18.7 | U | ug/Kg dry | 3.40 | 9.33 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 11.7 | 18.7 | U | ug/Kg dry | 5.06 | 11.7 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Anthracene | < 11.7 | 18.7 | U | ug/Kg dry | 4.76 | 11.7 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Benzo(a)anthracene | < 9.33 | 18.7 | U | ug/Kg dry | 3.72 | 9.33 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Benzo(a)pyrene | < 9.33 | 18.7 | U | ug/Kg dry | 2.84 | 9.33 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 11.7 | 18.7 | U | ug/Kg dry | 6.01 | 11.7 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 11.7 | 18.7 | U | ug/Kg dry | 5.82 | 11.7 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 11.7 | 18.7 | U | ug/Kg dry | 4.87 | 11.7 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Chrysene | < 9.33 | 18.7 | U | ug/Kg dry | 3.92 | 9.33 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 11.7 | 18.7 | U | ug/Kg dry | 4.71 | 11.7 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Fluoranthene | < 11.7 | 18.7 | U | ug/Kg dry | 5.81 | 11.7 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Fluorene | < 9.33 | 18.7 | U | ug/Kg dry | 4.45 | 9.33 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Indeno(1,2,3-cd)pyrene | < 11.7 | 18.7 | U | ug/Kg dry | 4.74 | 11.7 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Naphthalene | < 11.7 | 18.7 | U | ug/Kg dry | 5.59 | 11.7 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Phenanthrene | < 9.33 | 18.7 | U | ug/Kg dry | 4.58 | 9.33 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| Pyrene | < 11.7 | 18.7 | U | ug/Kg dry | 2.55 | 11.7 | 10/11/24 15:58 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 88%* | *Limits: 57-119* | | *10/11/24 15:58* | *B24J0527* | *MS5* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-23-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:43
**Matrix:** Soil
**Lab ID:** O24J0276-04 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270D SIM / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 79%* | *Limits: 54-133* | | *10/11/24 15:58* | *B24J0527* | *MS5* | 1 |
| **Method: SW8270E / SW3550** | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | < 18.1 | 27.2 | U | ug/Kg dry | 5.12 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 18.1 | 27.2 | U | ug/Kg dry | 4.72 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 13.6 | 27.2 | U | ug/Kg dry | 4.49 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 18.1 | 27.2 | U | ug/Kg dry | 4.31 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 13.6 | 27.2 | U | ug/Kg dry | 5.10 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 9.06 | 18.1 | U | ug/Kg dry | 3.22 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 9.06 | 18.1 | U | ug/Kg dry | 6.00 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 9.06 | 18.1 | U | ug/Kg dry | 2.90 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 27.2 | 54.4 | U | ug/Kg dry | 3.74 | 27.2 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 272 | 453 | U | ug/Kg dry | 61.6 | 272 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 18.1 | 27.2 | U | ug/Kg dry | 5.98 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 9.06 | 18.1 | U | ug/Kg dry | 2.86 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 9.06 | 18.1 | U | ug/Kg dry | 3.23 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 9.06 | 18.1 | U | ug/Kg dry | 3.85 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 9.06 | 18.1 | U | ug/Kg dry | 4.05 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 13.6 | 27.2 | U | ug/Kg dry | 4.42 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.53 | 9.06 | U | ug/Kg dry | 2.08 | 4.53 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2-Nitroaniline | < 18.1 | 27.2 | U | ug/Kg dry | 5.52 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 18.1 | 27.2 | U | ug/Kg dry | 7.60 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 54.4 | 109 | U | ug/Kg dry | 17.3 | 54.4 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 18.1 | 36.2 | U | ug/Kg dry | 7.07 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 18.1 | 27.2 | U | ug/Kg dry | 9.65 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 362 | 725 | U | ug/Kg dry | 107 | 362 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 13.6 | 27.2 | U | ug/Kg dry | 4.80 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 9.06 | 18.1 | U | ug/Kg dry | 2.49 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 13.6 | 27.2 | U | ug/Kg dry | 4.35 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 13.6 | 27.2 | U | ug/Kg dry | 4.59 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 18.1 | 36.2 | U | ug/Kg dry | 3.60 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 362 | 725 | U | ug/Kg dry | 120 | 362 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Acenaphthene | < 9.06 | 18.1 | U | ug/Kg dry | 3.64 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Acenaphthylene | < 9.06 | 18.1 | U | ug/Kg dry | 4.09 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Aniline | < 109 | 181 | U | ug/Kg dry | 6.41 | 109 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Anthracene | < 13.6 | 27.2 | U | ug/Kg dry | 5.23 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 9.06 | 18.1 | U | ug/Kg dry | 2.59 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-23-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:43
**Matrix:** Soil
**Lab ID:** O24J0276-04 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzidine | < 725 | 3,020 | U | ug/Kg dry | 154 | 725 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 13.6 | 27.2 | U | ug/Kg dry | 4.55 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 36.2 | 72.5 | U | ug/Kg dry | 5.55 | 36.2 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Benzo(b)fluoranthene | < 18.1 | 27.2 | U | ug/Kg dry | 7.27 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 18.1 | 36.2 | U | ug/Kg dry | 4.03 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 18.1 | 36.2 | U | ug/Kg dry | 4.43 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Benzoic acid | < 362 | 1,450 | U | ug/Kg dry | 90.1 | 362 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 13.6 | 27.2 | U | ug/Kg dry | 4.65 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 9.06 | 18.1 | U | ug/Kg dry | 3.97 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 362 | 453 | U | ug/Kg dry | 48.0 | 362 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 109 | 181 | U | ug/Kg dry | 30.7 | 109 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 27.2 | 54.4 | U | ug/Kg dry | 7.51 | 27.2 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Carbazole | < 9.06 | 18.1 | U | ug/Kg dry | 3.05 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Chrysene | < 9.06 | 18.1 | U | ug/Kg dry | 2.89 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 13.6 | 27.2 | U | ug/Kg dry | 11.0 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Dibenzofuran | < 13.6 | 27.2 | U | ug/Kg dry | 4.03 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 109 | 181 | U | ug/Kg dry | 31.3 | 109 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 9.06 | 18.1 | U | ug/Kg dry | 3.64 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 27.2 | 54.4 | U | ug/Kg dry | 10.1 | 27.2 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 18.1 | 27.2 | U | ug/Kg dry | 6.64 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Fluoranthene | < 18.1 | 27.2 | U | ug/Kg dry | 5.88 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Fluorene | < 9.06 | 18.1 | U | ug/Kg dry | 3.57 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 9.06 | 18.1 | U | ug/Kg dry | 3.49 | 9.06 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 18.1 | 36.2 | U | ug/Kg dry | 5.58 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 362 | 725 | U | ug/Kg dry | 68.2 | 362 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Hexachloroethane | < 18.1 | 36.2 | U | ug/Kg dry | 4.97 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 18.1 | 27.2 | U | ug/Kg dry | 7.18 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Isophorone | < 13.6 | 27.2 | U | ug/Kg dry | 3.47 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Naphthalene | < 18.1 | 27.2 | U | ug/Kg dry | 5.21 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Nitrobenzene | < 18.1 | 36.2 | U | ug/Kg dry | 4.70 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 18.1 | 36.2 | U | ug/Kg dry | 6.86 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 27.2 | 54.4 | U | ug/Kg dry | 8.50 | 27.2 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| N-Nitrosodiphenylamine | < 18.1 | 27.2 | U | ug/Kg dry | 6.28 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 18.1 | 27.2 | U | ug/Kg dry | 6.09 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 272 | 453 | U | ug/Kg dry | 48.8 | 272 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Phenanthrene | < 13.6 | 27.2 | U | ug/Kg dry | 4.70 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Phenol | < 18.1 | 36.2 | U | ug/Kg dry | 5.00 | 18.1 | 10/14/24 21:53 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-23-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:43
**Matrix:** Soil
**Lab ID:** O24J0276-04 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| Pyrene | < 13.6 | 27.2 | U | ug/Kg dry | 5.00 | 13.6 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| Pyridine | < 362 | 725 | U | ug/Kg dry | 45.3 | 362 | 10/14/24 21:53 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 73%* | *Limits: 35-115* | | *10/14/24 21:53* | *B24J0296* | *LP* | 1 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 78%* | *Limits: 33-122* | | *10/14/24 21:53* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 71%* | *Limits: 37-122* | | *10/14/24 21:53* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 70%* | *Limits: 44-115* | | *10/14/24 21:53* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 78%* | *Limits: 39-132* | | *10/14/24 21:53* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 78%* | *Limits: 54-127* | | *10/14/24 21:53* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.120 | 0.240 | U | mg/Kg dry | 0.0455 | 0.120 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.599 | 0.719 | U | mg/Kg dry | 0.261 | 0.599 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.719 | 0.958 | U | mg/Kg dry | 0.341 | 0.719 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.240 | 0.359 | U | mg/Kg dry | 0.0791 | 0.240 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.240 | 0.359 | U | mg/Kg dry | 0.0731 | 0.240 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.120 | 0.240 | U | mg/Kg dry | 0.0395 | 0.120 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.299 | 0.359 | U | mg/Kg dry | 0.140 | 0.299 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.120 | 0.359 | U | mg/Kg dry | 0.0323 | 0.120 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.240 | 0.359 | U | mg/Kg dry | 0.0659 | 0.240 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.719 | 0.958 | U | mg/Kg dry | 0.341 | 0.719 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 95%* | *Limits: 10-127* | | *10/09/24 00:21* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 83%* | *Limits: 44-130* | | *10/09/24 00:21* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.79 | 9.58 | U | ug/Kg dry | 1.82 | 4.79 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.40 | 4.79 | U | ug/Kg dry | 1.18 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.79 | 9.58 | U | ug/Kg dry | 2.35 | 4.79 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.40 | 4.79 | U | ug/Kg dry | 0.711 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.40 | 4.79 | U | ug/Kg dry | 1.05 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.40 | 4.79 | U | ug/Kg dry | 0.846 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.79 | 9.58 | U | ug/Kg dry | 1.34 | 4.79 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Chlordane | < 24.0 | 47.9 | U | ug/Kg dry | 11.6 | 24.0 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.40 | 4.79 | U | ug/Kg dry | 1.13 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.40 | 4.79 | U | ug/Kg dry | 0.745 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.40 | 4.79 | U | ug/Kg dry | 1.14 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-23-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:43
**Matrix:** Soil
**Lab ID:** O24J0276-04 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| Endosulfan II | < 2.40 | 4.79 | U | ug/Kg dry | 1.09 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.79 | 9.58 | U | ug/Kg dry | 1.26 | 4.79 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Endrin | < 2.40 | 4.79 | U | ug/Kg dry | 0.863 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 4.79 | 9.58 | U | ug/Kg dry | 1.40 | 4.79 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.79 | 9.58 | U | ug/Kg dry | 1.48 | 4.79 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.40 | 4.79 | U | ug/Kg dry | 1.02 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.79 | 9.58 | U | ug/Kg dry | 2.05 | 4.79 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.40 | 4.79 | U | ug/Kg dry | 1.17 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.40 | 4.79 | U | ug/Kg dry | 1.32 | 2.40 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.79 | 9.58 | U | ug/Kg dry | 2.31 | 4.79 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| Toxaphene | < 299 | 599 | U | ug/Kg dry | 202 | 299 | 10/17/24 20:46 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 99%* | *Limits: 23-110* | | *10/17/24 20:46* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 99%* | *Limits: 42-129* | | *10/17/24 21:03* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **13,500** | 72.6 | D | mg/Kg dry | 10.0 | 58.1 | 10/09/24 15:35 | B24J0437 | CS2 | 10 |
| Antimony | < 1.16 | 1.45 | U | mg/Kg dry | 0.581 | 1.16 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Arsenic** | **0.810** | 1.45 | J | mg/Kg dry | 0.418 | 1.16 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Barium** | **35.1** | 1.45 | | mg/Kg dry | 0.227 | 0.581 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.171** | 0.145 | | mg/Kg dry | 0.0349 | 0.116 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.343** | 0.145 | | mg/Kg dry | 0.0290 | 0.0581 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Calcium** | **1,580** | 14.5 | B | mg/Kg dry | 5.81 | 11.6 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Chromium** | **26.3** | 1.45 | | mg/Kg dry | 0.401 | 1.16 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Cobalt** | **8.72** | 1.45 | | mg/Kg dry | 0.227 | 0.581 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Copper** | **4.73** | 1.45 | | mg/Kg dry | 0.343 | 1.16 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Iron** | **17,100** | 72.6 | D, B | mg/Kg dry | 34.9 | 69.7 | 10/09/24 15:35 | B24J0437 | CS2 | 10 |
| **Lead** | **36.8** | 1.45 | | mg/Kg dry | 0.349 | 1.16 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Magnesium** | **286** | 6.37 | | mg/Kg dry | 2.04 | 6.12 | 11/11/24 12:28 | B24K0386 | CS2 | 1 |
| **Manganese** | **398** | 1.45 | | mg/Kg dry | 0.244 | 0.581 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Nickel** | **8.02** | 1.45 | | mg/Kg dry | 0.256 | 0.581 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Potassium** | **319** | 14.5 | B | mg/Kg dry | 9.00 | 13.9 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| Selenium | < 1.16 | 1.45 | U, Q | mg/Kg dry | 0.418 | 1.16 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| Silver | < 1.16 | 1.45 | U | mg/Kg dry | 0.290 | 1.16 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Sodium** | **21.2** | 12.7 | | mg/Kg dry | 6.12 | 12.2 | 11/11/24 12:28 | B24K0386 | CS2 | 1 |
| Thallium | < 1.16 | 1.45 | U | mg/Kg dry | 0.558 | 1.16 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| **Vanadium** | **30.9** | 1.45 | | mg/Kg dry | 0.197 | 0.581 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-23-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:43
**Matrix:** Soil
**Lab ID:** O24J0276-04 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Metals by ICP-AES (Continued)*** | | | | | | | | | | |
| **Method: SW6010D / SW3050 (Continued)** | | | | | | | | | | |
| **Zinc** | **10.1** | 5.81 | | mg/Kg dry | 1.25 | 2.90 | 10/09/24 13:48 | B24J0437 | CS2 | 1 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| **Mercury** | **0.0166** | 0.0549 | J | mg/Kg dry | 0.0165 | 0.0329 | 10/15/24 11:36 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **82.6** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/10/24 00:00 | B24J0405 | AS8 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-2-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:58
**Matrix:** Soil
**Lab ID:** O24J0276-05

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 1.12 | 2.24 | U | ug/Kg dry | 0.453 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 1.12 | 2.24 | U | ug/Kg dry | 0.458 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 1.12 | 2.24 | U | ug/Kg dry | 0.398 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 1.12 | 2.24 | U | ug/Kg dry | 0.490 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethane | < 2.24 | 4.47 | U | ug/Kg dry | 0.607 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethene | < 1.12 | 2.24 | U | ug/Kg dry | 0.485 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,1-Dichloropropene | < 11.2 | 22.4 | U | ug/Kg dry | 3.18 | 11.2 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 22.4 | 44.7 | U, Q | ug/Kg dry | 7.24 | 22.4 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 11.2 | 22.4 | U | ug/Kg dry | 4.28 | 11.2 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 22.4 | 44.7 | U | ug/Kg dry | 7.11 | 22.4 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **1,2,4-Trimethylbenzene** | **31.4** | 8.94 | | ug/Kg dry | 1.20 | 4.47 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 4.47 | 8.94 | U | ug/Kg dry | 1.85 | 4.47 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,2-Dibromoethane | < 1.12 | 2.24 | U | ug/Kg dry | 0.304 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 5.59 | 11.2 | U | ug/Kg dry | 1.96 | 5.59 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethane | < 1.12 | 2.24 | U | ug/Kg dry | 0.459 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,2-Dichloropropane | < 1.12 | 2.24 | U | ug/Kg dry | 0.540 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 2.24 | 4.47 | U | ug/Kg dry | 1.12 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 2.24 | 4.47 | U | ug/Kg dry | 0.801 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,3-Dichloropropane | < 1.12 | 2.24 | U | ug/Kg dry | 0.500 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,4-Dioxane | < 44.7 | 89.4 | U, Q | ug/Kg dry | 17.1 | 44.7 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 5.59 | 11.2 | U | ug/Kg dry | 2.05 | 5.59 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 1-Propanol | < 112 | 224 | U | ug/Kg dry | 35.5 | 112 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 2,2-Dichloropropane | < 1.12 | 2.24 | U | ug/Kg dry | 0.370 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 2-Butanone | < 15.7 | 31.3 | U | ug/Kg dry | 7.61 | 15.7 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 55.9 | 112 | U | ug/Kg dry | 22.4 | 55.9 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 2-Chlorotoluene | < 2.24 | 4.47 | U | ug/Kg dry | 0.980 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 2-Hexanone | < 15.7 | 31.3 | U | ug/Kg dry | 5.93 | 15.7 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 4-Chlorotoluene | < 2.24 | 4.47 | U | ug/Kg dry | 0.980 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **4-Isopropyltoluene** | **58.9** | 8.94 | | ug/Kg dry | 1.31 | 4.47 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 15.7 | 31.3 | U | ug/Kg dry | 4.56 | 15.7 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Acetone | < 39.1 | 78.3 | U | ug/Kg dry | 13.5 | 39.1 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Acetonitrile | < 112 | 224 | U | ug/Kg dry | 34.9 | 112 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Acrolein | < 22.4 | 44.7 | U | ug/Kg dry | 9.38 | 22.4 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Acrylonitrile | < 2.24 | 4.47 | U | ug/Kg dry | 1.10 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Benzene** | **40.6** | 2.24 | | ug/Kg dry | 0.322 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Bromobenzene | < 2.24 | 4.47 | U | ug/Kg dry | 0.629 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Bromochloromethane | < 2.24 | 4.47 | U | ug/Kg dry | 0.784 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-2-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:58
**Matrix:** Soil
**Lab ID:** O24J0276-05 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 1.12 | 2.24 | U | ug/Kg dry | 0.538 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Bromoform | < 2.24 | 4.47 | U | ug/Kg dry | 0.704 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Bromomethane | < 11.2 | 22.4 | U, Q | ug/Kg dry | 2.69 | 11.2 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Carbon disulfide** | **1.89** | 4.47 | J | ug/Kg dry | 0.673 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Carbon tetrachloride | < 11.2 | 22.4 | U | ug/Kg dry | 3.12 | 11.2 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Chlorobenzene | < 2.24 | 4.47 | U | ug/Kg dry | 0.581 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Chloroethane | < 4.47 | 8.94 | U | ug/Kg dry | 1.58 | 4.47 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Chloroform | < 2.24 | 4.47 | U | ug/Kg dry | 0.818 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Chloromethane | < 4.47 | 8.94 | U | ug/Kg dry | 1.63 | 4.47 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **cis-1,2-Dichloroethene** | **5.11** | 4.47 | | ug/Kg dry | 0.638 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 2.24 | 4.47 | U | ug/Kg dry | 0.774 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Cyclohexane** | **284** | 11.2 | | ug/Kg dry | 1.72 | 5.59 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Dibromochloromethane | < 1.12 | 2.24 | U | ug/Kg dry | 0.532 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Dibromomethane | < 1.12 | 2.24 | U | ug/Kg dry | 0.409 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Dichlorodifluoromethane | < 5.59 | 11.2 | U | ug/Kg dry | 1.35 | 5.59 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Ethylbenzene** | **4,530** | 1,020 | | ug/Kg dry | 241 | 512 | 10/15/24 10:58 | B24J0919 | TC1 | 500 |
| Isobutanol | < 44.7 | 89.4 | U | ug/Kg dry | 11.9 | 44.7 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Isopropanol | < 44.7 | 89.4 | U | ug/Kg dry | 19.4 | 44.7 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Isopropylbenzene** | **140** | 4.47 | | ug/Kg dry | 1.11 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **m,p-Xylene** | **144** | 8.94 | | ug/Kg dry | 1.81 | 4.47 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Methyl tert-butyl ether | < 1.12 | 2.24 | U | ug/Kg dry | 0.374 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Methylene chloride | < 11.2 | 22.4 | U | ug/Kg dry | 4.39 | 11.2 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **n-Butylbenzene** | **202** | 22.4 | Q | ug/Kg dry | 3.20 | 11.2 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **n-Propylbenzene** | **253** | 4.47 | | ug/Kg dry | 1.07 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Naphthalene** | **38.6** | 44.7 | Q, J | ug/Kg dry | 11.1 | 22.4 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **o-Xylene** | **28.5** | 8.94 | | ug/Kg dry | 1.14 | 4.47 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **sec-Butylbenzene** | **93.9** | 4.47 | Q | ug/Kg dry | 1.10 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Styrene | < 4.47 | 8.94 | U | ug/Kg dry | 1.23 | 4.47 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **tert-Butylbenzene** | **22.2** | 4.47 | | ug/Kg dry | 0.425 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Tetrachloroethene** | **2.95** | 4.47 | J | ug/Kg dry | 0.653 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Tetrahydrofuran | < 5.59 | 11.2 | U | ug/Kg dry | 1.61 | 5.59 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Toluene** | **49.2** | 2.24 | | ug/Kg dry | 0.404 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 2.24 | 4.47 | U | ug/Kg dry | 1.03 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 2.24 | 4.47 | U | ug/Kg dry | 0.915 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Trichloroethene** | **19.7** | 2.24 | | ug/Kg dry | 0.542 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Trichlorofluoromethane | < 1.12 | 2.24 | U | ug/Kg dry | 0.463 | 1.12 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| Vinyl acetate | < 2.24 | 4.47 | U, Q | ug/Kg dry | 0.570 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-2-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:58
**Matrix:** Soil
**Lab ID:** O24J0276-05 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| **Vinyl chloride** | **126** | 4.47 | | ug/Kg dry | 0.799 | 2.24 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Xylenes, Total** | **172** | 13.4 | | ug/Kg dry | 2.86 | 6.71 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **1,2-Dichloroethene, Total** | **5.11** | 8.94 | J | ug/Kg dry | 1.46 | 4.47 | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 105%* | *Limits: 78-119* | | *10/08/24 13:49* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 107%* | *Limits: 71-136* | | *10/08/24 13:49* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 104%* | *Limits: 81-114* | | *10/08/24 13:49* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | *S* | *Recovery: 126%* | *Limits: 85-116* | | *10/08/24 13:49* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 83%* | *Limits: 79-119* | | *10/08/24 13:49* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 120%* | *Limits: 78-121* | | *10/08/24 13:49* | *B24J0623* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **Cyclohexane, 1,1,2-trimethyl-** | **31.6** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Cyclohexane, 1,1,3-trimethyl-** | **48.1** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Cyclohexane, 1,2-dimethyl-,...** | **37.1** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Cyclohexane, ethyl-** | **48.6** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Cyclohexane, methyl-** | **152** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Cyclohexane, propyl-** | **101** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Cyclopentadecane** | **29.6** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Decane** | **54.3** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Heptane, 2,6-dimethyl-** | **31.8** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Heptane, 2-methyl-** | **63.2** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Heptane, 3-ethyl-2-methyl-** | **55.3** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Heptane, 3-methyl-** | **68.1** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Hexane, 3-methyl-** | **37.7** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Octane** | **58.3** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Octane, 2,6-dimethyl-** | **115** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Octane, 3-methyl-** | **73.7** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Octane, 4-methyl-** | **66.2** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **Undecane** | **72.8** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **unknown** | **66.6** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| **unknown (01)** | **73.0** | | | ug/Kg | | | 10/08/24 13:49 | B24J0623 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| **1-Methylnaphthalene** | **12.4** | 19.4 | J | ug/Kg dry | 3.09 | 9.70 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 9.70 | 19.4 | U | ug/Kg dry | 3.29 | 9.70 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-2-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:58
**Matrix:** Soil
**Lab ID:** O24J0276-05 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550 (Continued)** | | | | | | | | | | |
| Acenaphthene | < 9.70 | 19.4 | U | ug/Kg dry | 3.54 | 9.70 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 12.1 | 19.4 | U | ug/Kg dry | 5.26 | 12.1 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| Anthracene | < 12.1 | 19.4 | U | ug/Kg dry | 4.94 | 12.1 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| **Benzo(a)anthracene** | **4.08** | 19.4 | J | ug/Kg dry | 3.87 | 9.70 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| **Benzo(a)pyrene** | **2.99** | 19.4 | J | ug/Kg dry | 2.95 | 9.70 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 12.1 | 19.4 | U | ug/Kg dry | 6.24 | 12.1 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 12.1 | 19.4 | U | ug/Kg dry | 6.05 | 12.1 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 12.1 | 19.4 | U | ug/Kg dry | 5.06 | 12.1 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| Chrysene | < 9.70 | 19.4 | U | ug/Kg dry | 4.08 | 9.70 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 12.1 | 19.4 | U | ug/Kg dry | 4.90 | 12.1 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| Fluoranthene | < 12.1 | 19.4 | U | ug/Kg dry | 6.03 | 12.1 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| Fluorene | < 9.70 | 19.4 | U | ug/Kg dry | 4.62 | 9.70 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| Indeno(1,2,3-cd)pyrene | < 12.1 | 19.4 | U | ug/Kg dry | 4.93 | 12.1 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| Naphthalene | < 12.1 | 19.4 | U | ug/Kg dry | 5.81 | 12.1 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| **Phenanthrene** | **8.56** | 19.4 | J | ug/Kg dry | 4.76 | 9.70 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| **Pyrene** | **4.44** | 19.4 | J | ug/Kg dry | 2.65 | 12.1 | 10/11/24 16:18 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 85%* | *Limits: 57-119* | | *10/11/24 16:18* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 76%* | *Limits: 54-133* | | *10/11/24 16:18* | *B24J0527* | *MS5* | 1 |
| **Method: SW8270E / SW3550** | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | < 18.5 | 27.7 | U | ug/Kg dry | 5.22 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 18.5 | 27.7 | U | ug/Kg dry | 4.81 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 13.9 | 27.7 | U | ug/Kg dry | 4.58 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 18.5 | 27.7 | U | ug/Kg dry | 4.39 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 13.9 | 27.7 | U | ug/Kg dry | 5.20 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 9.24 | 18.5 | U | ug/Kg dry | 3.28 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 9.24 | 18.5 | U | ug/Kg dry | 6.12 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 9.24 | 18.5 | U | ug/Kg dry | 2.96 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 27.7 | 55.4 | U | ug/Kg dry | 3.81 | 27.7 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 277 | 462 | U | ug/Kg dry | 62.8 | 277 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 18.5 | 27.7 | U | ug/Kg dry | 6.10 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 9.24 | 18.5 | U | ug/Kg dry | 2.92 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 9.24 | 18.5 | U | ug/Kg dry | 3.29 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 9.24 | 18.5 | U | ug/Kg dry | 3.93 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 9.24 | 18.5 | U | ug/Kg dry | 4.13 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 13.9 | 27.7 | U | ug/Kg dry | 4.50 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.62 | 9.24 | U | ug/Kg dry | 2.12 | 4.62 | 10/14/24 22:14 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-2-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:58
**Matrix:** Soil
**Lab ID:** O24J0276-05 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-Nitroaniline | < 18.5 | 27.7 | U | ug/Kg dry | 5.62 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 18.5 | 27.7 | U | ug/Kg dry | 7.75 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 55.4 | 111 | U | ug/Kg dry | 17.6 | 55.4 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 18.5 | 37.0 | U | ug/Kg dry | 7.21 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 18.5 | 27.7 | U | ug/Kg dry | 9.84 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 370 | 739 | U | ug/Kg dry | 109 | 370 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 13.9 | 27.7 | U | ug/Kg dry | 4.90 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 9.24 | 18.5 | U | ug/Kg dry | 2.54 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 13.9 | 27.7 | U | ug/Kg dry | 4.44 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 13.9 | 27.7 | U | ug/Kg dry | 4.69 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 18.5 | 37.0 | U | ug/Kg dry | 3.67 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 370 | 739 | U | ug/Kg dry | 123 | 370 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Acenaphthene | < 9.24 | 18.5 | U | ug/Kg dry | 3.71 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Acenaphthylene | < 9.24 | 18.5 | U | ug/Kg dry | 4.17 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Aniline | < 111 | 185 | U | ug/Kg dry | 6.53 | 111 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Anthracene | < 13.9 | 27.7 | U | ug/Kg dry | 5.33 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 9.24 | 18.5 | U | ug/Kg dry | 2.64 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Benzidine | < 739 | 3,080 | U | ug/Kg dry | 157 | 739 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 13.9 | 27.7 | U | ug/Kg dry | 4.64 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 37.0 | 73.9 | U | ug/Kg dry | 5.66 | 37.0 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Benzo(b)fluoranthene | < 18.5 | 27.7 | U | ug/Kg dry | 7.42 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 18.5 | 37.0 | U | ug/Kg dry | 4.11 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 18.5 | 37.0 | U | ug/Kg dry | 4.51 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Benzoic acid | < 370 | 1,480 | U | ug/Kg dry | 91.9 | 370 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 13.9 | 27.7 | U | ug/Kg dry | 4.75 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 9.24 | 18.5 | U | ug/Kg dry | 4.05 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 370 | 462 | U | ug/Kg dry | 49.0 | 370 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 111 | 185 | U | ug/Kg dry | 31.3 | 111 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 27.7 | 55.4 | U | ug/Kg dry | 7.66 | 27.7 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Carbazole | < 9.24 | 18.5 | U | ug/Kg dry | 3.11 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Chrysene | < 9.24 | 18.5 | U | ug/Kg dry | 2.94 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 13.9 | 27.7 | U | ug/Kg dry | 11.2 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Dibenzofuran | < 13.9 | 27.7 | U | ug/Kg dry | 4.11 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 111 | 185 | U | ug/Kg dry | 31.9 | 111 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 9.24 | 18.5 | U | ug/Kg dry | 3.71 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 27.7 | 55.4 | U | ug/Kg dry | 10.3 | 27.7 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 18.5 | 27.7 | U | ug/Kg dry | 6.77 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-2-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:58
**Matrix:** Soil
**Lab ID:** O24J0276-05 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| Fluoranthene | < 18.5 | 27.7 | U | ug/Kg dry | 5.99 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Fluorene | < 9.24 | 18.5 | U | ug/Kg dry | 3.64 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 9.24 | 18.5 | U | ug/Kg dry | 3.56 | 9.24 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 18.5 | 37.0 | U | ug/Kg dry | 5.69 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 370 | 739 | U | ug/Kg dry | 69.5 | 370 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Hexachloroethane | < 18.5 | 37.0 | U | ug/Kg dry | 5.07 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 18.5 | 27.7 | U | ug/Kg dry | 7.32 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Isophorone | < 13.9 | 27.7 | U | ug/Kg dry | 3.53 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Naphthalene | < 18.5 | 27.7 | U | ug/Kg dry | 5.31 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Nitrobenzene | < 18.5 | 37.0 | U | ug/Kg dry | 4.79 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 18.5 | 37.0 | U | ug/Kg dry | 6.99 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 27.7 | 55.4 | U | ug/Kg dry | 8.67 | 27.7 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| N-Nitrosodiphenylamine | < 18.5 | 27.7 | U | ug/Kg dry | 6.41 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 18.5 | 27.7 | U | ug/Kg dry | 6.21 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 277 | 462 | U | ug/Kg dry | 49.7 | 277 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Phenanthrene | < 13.9 | 27.7 | U | ug/Kg dry | 4.79 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Phenol | < 18.5 | 37.0 | U | ug/Kg dry | 5.10 | 18.5 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Pyrene | < 13.9 | 27.7 | U | ug/Kg dry | 5.10 | 13.9 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| Pyridine | < 370 | 739 | U | ug/Kg dry | 46.2 | 370 | 10/14/24 22:14 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 69%* | *Limits: 35-115* | | *10/14/24 22:14* | *B24J0296* | *LP* | 1 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 74%* | *Limits: 33-122* | | *10/14/24 22:14* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 68%* | *Limits: 37-122* | | *10/14/24 22:14* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 67%* | *Limits: 44-115* | | *10/14/24 22:14* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 73%* | *Limits: 39-132* | | *10/14/24 22:14* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 72%* | *Limits: 54-127* | | *10/14/24 22:14* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.123 | 0.245 | U | mg/Kg dry | 0.0466 | 0.123 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.613 | 0.736 | U | mg/Kg dry | 0.267 | 0.613 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.736 | 0.981 | U | mg/Kg dry | 0.349 | 0.736 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.245 | 0.368 | U | mg/Kg dry | 0.0809 | 0.245 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.245 | 0.368 | U | mg/Kg dry | 0.0748 | 0.245 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.123 | 0.245 | U | mg/Kg dry | 0.0405 | 0.123 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.306 | 0.368 | U | mg/Kg dry | 0.143 | 0.306 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.123 | 0.368 | U | mg/Kg dry | 0.0331 | 0.123 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.245 | 0.368 | U | mg/Kg dry | 0.0674 | 0.245 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-2-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:58
**Matrix:** Soil
**Lab ID:** O24J0276-05 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8082A / SW3546 (Continued)** | | | | | | | | | | |
| Total PCB | < 0.736 | 0.981 | U | mg/Kg dry | 0.349 | 0.736 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 95%* | *Limits: 10-127* | | *10/09/24 00:38* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 83%* | *Limits: 44-130* | | *10/09/24 00:38* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.90 | 9.81 | U | ug/Kg dry | 1.86 | 4.90 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.45 | 4.90 | U | ug/Kg dry | 1.21 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.90 | 9.81 | U | ug/Kg dry | 2.41 | 4.90 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.45 | 4.90 | U | ug/Kg dry | 0.728 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.45 | 4.90 | U | ug/Kg dry | 1.08 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.45 | 4.90 | U | ug/Kg dry | 0.866 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.90 | 9.81 | U | ug/Kg dry | 1.37 | 4.90 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Chlordane | < 24.5 | 49.0 | U | ug/Kg dry | 11.9 | 24.5 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.45 | 4.90 | U | ug/Kg dry | 1.15 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.45 | 4.90 | U | ug/Kg dry | 0.762 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.45 | 4.90 | U | ug/Kg dry | 1.17 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.45 | 4.90 | U | ug/Kg dry | 1.11 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.90 | 9.81 | U | ug/Kg dry | 1.29 | 4.90 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Endrin | < 2.45 | 4.90 | U | ug/Kg dry | 0.883 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 4.90 | 9.81 | U | ug/Kg dry | 1.43 | 4.90 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.90 | 9.81 | U | ug/Kg dry | 1.51 | 4.90 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.45 | 4.90 | U | ug/Kg dry | 1.04 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.90 | 9.81 | U | ug/Kg dry | 2.10 | 4.90 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.45 | 4.90 | U | ug/Kg dry | 1.20 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.45 | 4.90 | U | ug/Kg dry | 1.35 | 2.45 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.90 | 9.81 | U | ug/Kg dry | 2.36 | 4.90 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| Toxaphene | < 306 | 613 | U | ug/Kg dry | 206 | 306 | 10/17/24 21:03 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 99%* | *Limits: 23-110* | | *10/17/24 21:03* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 100%* | *Limits: 42-129* | | *10/17/24 21:20* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **10,400** | 64.1 | D | mg/Kg dry | 8.88 | 51.3 | 10/09/24 15:39 | B24J0437 | CS2 | 10 |
| Antimony | < 1.03 | 1.28 | U | mg/Kg dry | 0.513 | 1.03 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Arsenic** | **3.63** | 1.28 | | mg/Kg dry | 0.369 | 1.03 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Barium** | **104** | 1.28 | | mg/Kg dry | 0.200 | 0.513 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-2-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:58
**Matrix:** Soil
**Lab ID:** O24J0276-05 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Metals by ICP-AES (Continued)*** | | | | | | | | | | |
| **Method: SW6010D / SW3050 (Continued)** | | | | | | | | | | |
| **Beryllium** | **0.221** | 0.128 | | mg/Kg dry | 0.0308 | 0.103 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.582** | 0.128 | | mg/Kg dry | 0.0257 | 0.0513 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Calcium** | **1,640** | 12.8 | B | mg/Kg dry | 5.13 | 10.3 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Chromium** | **18.2** | 1.28 | | mg/Kg dry | 0.354 | 1.03 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Cobalt** | **8.12** | 1.28 | | mg/Kg dry | 0.200 | 0.513 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Copper** | **13.3** | 1.28 | | mg/Kg dry | 0.303 | 1.03 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Iron** | **19,600** | 64.1 | D, B | mg/Kg dry | 30.8 | 61.6 | 10/09/24 15:39 | B24J0437 | CS2 | 10 |
| **Lead** | **34.0** | 1.28 | | mg/Kg dry | 0.308 | 1.03 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Magnesium** | **2,190** | 6.30 | | mg/Kg dry | 2.02 | 6.05 | 11/11/24 12:32 | B24K0386 | CS2 | 1 |
| **Manganese** | **568** | 1.28 | | mg/Kg dry | 0.216 | 0.513 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Nickel** | **18.6** | 1.28 | | mg/Kg dry | 0.226 | 0.513 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Potassium** | **663** | 12.8 | B | mg/Kg dry | 7.95 | 12.3 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| Selenium | < 1.03 | 1.28 | U, Q | mg/Kg dry | 0.369 | 1.03 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| Silver | < 1.03 | 1.28 | U | mg/Kg dry | 0.257 | 1.03 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Sodium** | **60.6** | 12.6 | | mg/Kg dry | 6.05 | 12.1 | 11/11/24 12:32 | B24K0386 | CS2 | 1 |
| Thallium | < 1.03 | 1.28 | U | mg/Kg dry | 0.493 | 1.03 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Vanadium** | **25.7** | 1.28 | | mg/Kg dry | 0.174 | 0.513 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| **Zinc** | **54.3** | 5.13 | | mg/Kg dry | 1.10 | 2.57 | 10/09/24 13:52 | B24J0437 | CS2 | 1 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| **Mercury** | **0.0185** | 0.0559 | J | mg/Kg dry | 0.0168 | 0.0335 | 10/15/24 11:49 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **80.6** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/10/24 00:00 | B24J0405 | AS8 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:58
**Matrix:** Soil
**Lab ID:** O24J0276-06

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.843 | 1.69 | U | ug/Kg dry | 0.341 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.843 | 1.69 | U | ug/Kg dry | 0.345 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.843 | 1.69 | U | ug/Kg dry | 0.301 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.843 | 1.69 | U | ug/Kg dry | 0.370 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.69 | 3.37 | U | ug/Kg dry | 0.458 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethene | < 0.843 | 1.69 | U | ug/Kg dry | 0.366 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,1-Dichloropropene | < 8.43 | 16.9 | U | ug/Kg dry | 2.40 | 8.43 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 16.9 | 33.7 | U, Q | ug/Kg dry | 5.46 | 16.9 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 8.43 | 16.9 | U | ug/Kg dry | 3.23 | 8.43 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 16.9 | 33.7 | U | ug/Kg dry | 5.36 | 16.9 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 3.37 | 6.75 | U | ug/Kg dry | 0.908 | 3.37 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.37 | 6.75 | U | ug/Kg dry | 1.40 | 3.37 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.843 | 1.69 | U | ug/Kg dry | 0.229 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 4.22 | 8.43 | U | ug/Kg dry | 1.48 | 4.22 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.843 | 1.69 | U | ug/Kg dry | 0.347 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.843 | 1.69 | U | ug/Kg dry | 0.407 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.69 | 3.37 | U | ug/Kg dry | 0.843 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.69 | 3.37 | U | ug/Kg dry | 0.604 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.843 | 1.69 | U | ug/Kg dry | 0.377 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,4-Dioxane | < 33.7 | 67.5 | U, Q | ug/Kg dry | 12.9 | 33.7 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 4.22 | 8.43 | U | ug/Kg dry | 1.54 | 4.22 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1-Propanol | < 84.3 | 169 | U | ug/Kg dry | 26.8 | 84.3 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.843 | 1.69 | U | ug/Kg dry | 0.279 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 2-Butanone | < 11.8 | 23.6 | U | ug/Kg dry | 5.74 | 11.8 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 42.2 | 84.3 | U | ug/Kg dry | 16.9 | 42.2 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 2-Chlorotoluene | < 1.69 | 3.37 | U | ug/Kg dry | 0.739 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 2-Hexanone | < 11.8 | 23.6 | U | ug/Kg dry | 4.48 | 11.8 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 4-Chlorotoluene | < 1.69 | 3.37 | U | ug/Kg dry | 0.739 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 4-Isopropyltoluene | < 3.37 | 6.75 | U | ug/Kg dry | 0.988 | 3.37 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 11.8 | 23.6 | U | ug/Kg dry | 3.44 | 11.8 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Acetone | < 29.5 | 59.0 | U | ug/Kg dry | 10.2 | 29.5 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Acetonitrile | < 84.3 | 169 | U | ug/Kg dry | 26.3 | 84.3 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Acrolein | < 16.9 | 33.7 | U | ug/Kg dry | 7.08 | 16.9 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Acrylonitrile | < 1.69 | 3.37 | U | ug/Kg dry | 0.826 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Benzene | < 0.843 | 1.69 | U | ug/Kg dry | 0.243 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Bromobenzene | < 1.69 | 3.37 | U | ug/Kg dry | 0.474 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Bromochloromethane | < 1.69 | 3.37 | U | ug/Kg dry | 0.591 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:58
**Matrix:** Soil
**Lab ID:** O24J0276-06 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.843 | 1.69 | U | ug/Kg dry | 0.406 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Bromoform | < 1.69 | 3.37 | U | ug/Kg dry | 0.531 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Bromomethane | < 8.43 | 16.9 | U, Q | ug/Kg dry | 2.03 | 8.43 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Carbon disulfide | < 1.69 | 3.37 | U | ug/Kg dry | 0.508 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Carbon tetrachloride | < 8.43 | 16.9 | U | ug/Kg dry | 2.35 | 8.43 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Chlorobenzene | < 1.69 | 3.37 | U | ug/Kg dry | 0.439 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Chloroethane | < 3.37 | 6.75 | U | ug/Kg dry | 1.19 | 3.37 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Chloroform | < 1.69 | 3.37 | U | ug/Kg dry | 0.617 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Chloromethane | < 3.37 | 6.75 | U | ug/Kg dry | 1.23 | 3.37 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| cis-1,2-Dichloroethene | < 1.69 | 3.37 | U | ug/Kg dry | 0.481 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 1.69 | 3.37 | U | ug/Kg dry | 0.584 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Cyclohexane | < 4.22 | 8.43 | U | ug/Kg dry | 1.30 | 4.22 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Dibromochloromethane | < 0.843 | 1.69 | U | ug/Kg dry | 0.401 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Dibromomethane | < 0.843 | 1.69 | U | ug/Kg dry | 0.308 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Dichlorodifluoromethane | < 4.22 | 8.43 | U | ug/Kg dry | 1.02 | 4.22 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Ethylbenzene | < 3.37 | 6.75 | U | ug/Kg dry | 0.873 | 3.37 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Isobutanol | < 33.7 | 67.5 | U | ug/Kg dry | 8.97 | 33.7 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Isopropanol | < 33.7 | 67.5 | U | ug/Kg dry | 14.6 | 33.7 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Isopropylbenzene | < 1.69 | 3.37 | U | ug/Kg dry | 0.838 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| m,p-Xylene | < 3.37 | 6.75 | U | ug/Kg dry | 1.36 | 3.37 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.843 | 1.69 | U | ug/Kg dry | 0.282 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Methylene chloride | < 8.43 | 16.9 | U | ug/Kg dry | 3.31 | 8.43 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| n-Butylbenzene | < 8.43 | 16.9 | U, Q | ug/Kg dry | 2.41 | 8.43 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| n-Propylbenzene | < 1.69 | 3.37 | U | ug/Kg dry | 0.807 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Naphthalene | < 16.9 | 33.7 | U, Q | ug/Kg dry | 8.37 | 16.9 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| o-Xylene | < 3.37 | 6.75 | U | ug/Kg dry | 0.861 | 3.37 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| sec-Butylbenzene | < 1.69 | 3.37 | U, Q | ug/Kg dry | 0.828 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Styrene | < 3.37 | 6.75 | U | ug/Kg dry | 0.925 | 3.37 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| tert-Butylbenzene | < 1.69 | 3.37 | U | ug/Kg dry | 0.320 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Tetrachloroethene | < 1.69 | 3.37 | U | ug/Kg dry | 0.493 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Tetrahydrofuran | < 4.22 | 8.43 | U | ug/Kg dry | 1.21 | 4.22 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Toluene | < 0.843 | 1.69 | U | ug/Kg dry | 0.305 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 1.69 | 3.37 | U | ug/Kg dry | 0.781 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.69 | 3.37 | U | ug/Kg dry | 0.690 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Trichloroethene | < 0.843 | 1.69 | U | ug/Kg dry | 0.409 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Trichlorofluoromethane | < 0.843 | 1.69 | U | ug/Kg dry | 0.349 | 0.843 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Vinyl acetate | < 1.69 | 3.37 | U, Q | ug/Kg dry | 0.430 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:58
**Matrix:** Soil
**Lab ID:** O24J0276-06 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 1.69 | 3.37 | U | ug/Kg dry | 0.602 | 1.69 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| Xylenes, Total | < 5.06 | 10.1 | U | ug/Kg dry | 2.16 | 5.06 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethene, Total | < 3.37 | 6.75 | U | ug/Kg dry | 1.10 | 3.37 | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 100%* | *Limits: 78-119* | | *10/08/24 14:18* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 101%* | *Limits: 71-136* | | *10/08/24 14:18* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 100%* | *Limits: 81-114* | | *10/08/24 14:18* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 97%* | *Limits: 85-116* | | *10/08/24 14:18* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 102%* | *Limits: 79-119* | | *10/08/24 14:18* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 107%* | *Limits: 78-121* | | *10/08/24 14:18* | *B24J0623* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **1-Hexanol, 2-ethyl-** | **11.9** | | | ug/Kg | | | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| **3-Methylheptyl acetate** | **1.54** | | | ug/Kg | | | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| **Propene** | **4.33** | | | ug/Kg | | | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| **unknown** | **1.63** | | | ug/Kg | | | 10/08/24 14:18 | B24J0623 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| 1-Methylnaphthalene | < 8.95 | 17.9 | U | ug/Kg dry | 2.85 | 8.95 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 8.95 | 17.9 | U | ug/Kg dry | 3.04 | 8.95 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Acenaphthene | < 8.95 | 17.9 | U | ug/Kg dry | 3.27 | 8.95 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 11.2 | 17.9 | U | ug/Kg dry | 4.86 | 11.2 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Anthracene | < 11.2 | 17.9 | U | ug/Kg dry | 4.57 | 11.2 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Benzo(a)anthracene | < 8.95 | 17.9 | U | ug/Kg dry | 3.57 | 8.95 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Benzo(a)pyrene | < 8.95 | 17.9 | U | ug/Kg dry | 2.73 | 8.95 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 11.2 | 17.9 | U | ug/Kg dry | 5.76 | 11.2 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 11.2 | 17.9 | U | ug/Kg dry | 5.59 | 11.2 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 11.2 | 17.9 | U | ug/Kg dry | 4.67 | 11.2 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Chrysene | < 8.95 | 17.9 | U | ug/Kg dry | 3.76 | 8.95 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 11.2 | 17.9 | U | ug/Kg dry | 4.52 | 11.2 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Fluoranthene | < 11.2 | 17.9 | U | ug/Kg dry | 5.57 | 11.2 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Fluorene | < 8.95 | 17.9 | U | ug/Kg dry | 4.27 | 8.95 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Indeno(1,2,3-cd)pyrene | < 11.2 | 17.9 | U | ug/Kg dry | 4.55 | 11.2 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Naphthalene | < 11.2 | 17.9 | U | ug/Kg dry | 5.37 | 11.2 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Phenanthrene | < 8.95 | 17.9 | U | ug/Kg dry | 4.40 | 8.95 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |
| Pyrene | < 11.2 | 17.9 | U | ug/Kg dry | 2.45 | 11.2 | 10/11/24 16:39 | B24J0527 | MS5 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:58
**Matrix:** Soil
**Lab ID:** O24J0276-06 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550 (Continued)** | | | | | | | | | | |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 91%* | *Limits: 57-119* | | *10/11/24 16:39* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 81%* | *Limits: 54-133* | | *10/11/24 16:39* | *B24J0527* | *MS5* | 1 |
| **Method: SW8270E / SW3550** | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | < 17.0 | 25.5 | U | ug/Kg dry | 4.80 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 17.0 | 25.5 | U | ug/Kg dry | 4.42 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 12.7 | 25.5 | U | ug/Kg dry | 4.21 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 17.0 | 25.5 | U | ug/Kg dry | 4.03 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 12.7 | 25.5 | U | ug/Kg dry | 4.78 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 8.49 | 17.0 | U | ug/Kg dry | 3.02 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 8.49 | 17.0 | U | ug/Kg dry | 5.62 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 8.49 | 17.0 | U | ug/Kg dry | 2.72 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 25.5 | 50.9 | U | ug/Kg dry | 3.50 | 25.5 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 255 | 424 | U | ug/Kg dry | 57.7 | 255 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 17.0 | 25.5 | U | ug/Kg dry | 5.60 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 8.49 | 17.0 | U | ug/Kg dry | 2.68 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 8.49 | 17.0 | U | ug/Kg dry | 3.02 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 8.49 | 17.0 | U | ug/Kg dry | 3.61 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 8.49 | 17.0 | U | ug/Kg dry | 3.79 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 12.7 | 25.5 | U | ug/Kg dry | 4.14 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.24 | 8.49 | U | ug/Kg dry | 1.95 | 4.24 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2-Nitroaniline | < 17.0 | 25.5 | U | ug/Kg dry | 5.17 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 17.0 | 25.5 | U | ug/Kg dry | 7.12 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 50.9 | 102 | U | ug/Kg dry | 16.2 | 50.9 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 17.0 | 34.0 | U | ug/Kg dry | 6.62 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 17.0 | 25.5 | U | ug/Kg dry | 9.04 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 340 | 679 | U | ug/Kg dry | 100 | 340 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 12.7 | 25.5 | U | ug/Kg dry | 4.50 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 8.49 | 17.0 | U | ug/Kg dry | 2.33 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 12.7 | 25.5 | U | ug/Kg dry | 4.08 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 12.7 | 25.5 | U | ug/Kg dry | 4.30 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 17.0 | 34.0 | U | ug/Kg dry | 3.37 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 340 | 679 | U | ug/Kg dry | 113 | 340 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Acenaphthene | < 8.49 | 17.0 | U | ug/Kg dry | 3.41 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Acenaphthylene | < 8.49 | 17.0 | U | ug/Kg dry | 3.83 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Aniline | < 102 | 170 | U | ug/Kg dry | 6.00 | 102 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Anthracene | < 12.7 | 25.5 | U | ug/Kg dry | 4.90 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:58
**Matrix:** Soil
**Lab ID:** O24J0276-06 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Azobenzene as 1,2-Diphenylhydrazine | < 8.49 | 17.0 | U | ug/Kg dry | 2.43 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Benzidine | < 679 | 2,830 | U | ug/Kg dry | 144 | 679 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 12.7 | 25.5 | U | ug/Kg dry | 4.26 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 34.0 | 67.9 | U | ug/Kg dry | 5.20 | 34.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Benzo(b)fluoranthene | < 17.0 | 25.5 | U | ug/Kg dry | 6.81 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 17.0 | 34.0 | U | ug/Kg dry | 3.77 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 17.0 | 34.0 | U | ug/Kg dry | 4.15 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Benzoic acid | < 340 | 1,360 | U | ug/Kg dry | 84.4 | 340 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 12.7 | 25.5 | U | ug/Kg dry | 4.36 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 8.49 | 17.0 | U | ug/Kg dry | 3.72 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 340 | 424 | U | ug/Kg dry | 45.0 | 340 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 102 | 170 | U | ug/Kg dry | 28.7 | 102 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 25.5 | 50.9 | U | ug/Kg dry | 7.03 | 25.5 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Carbazole | < 8.49 | 17.0 | U | ug/Kg dry | 2.86 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Chrysene | < 8.49 | 17.0 | U | ug/Kg dry | 2.70 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 12.7 | 25.5 | U | ug/Kg dry | 10.3 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Dibenzofuran | < 12.7 | 25.5 | U | ug/Kg dry | 3.78 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 102 | 170 | U | ug/Kg dry | 29.3 | 102 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 8.49 | 17.0 | U | ug/Kg dry | 3.41 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 25.5 | 50.9 | U | ug/Kg dry | 9.44 | 25.5 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 17.0 | 25.5 | U | ug/Kg dry | 6.22 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Fluoranthene | < 17.0 | 25.5 | U | ug/Kg dry | 5.50 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Fluorene | < 8.49 | 17.0 | U | ug/Kg dry | 3.34 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 8.49 | 17.0 | U | ug/Kg dry | 3.27 | 8.49 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 17.0 | 34.0 | U | ug/Kg dry | 5.22 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 340 | 679 | U | ug/Kg dry | 63.8 | 340 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Hexachloroethane | < 17.0 | 34.0 | U | ug/Kg dry | 4.66 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 17.0 | 25.5 | U | ug/Kg dry | 6.73 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Isophorone | < 12.7 | 25.5 | U | ug/Kg dry | 3.25 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Naphthalene | < 17.0 | 25.5 | U | ug/Kg dry | 4.88 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Nitrobenzene | < 17.0 | 34.0 | U | ug/Kg dry | 4.40 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 17.0 | 34.0 | U | ug/Kg dry | 6.42 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 25.5 | 50.9 | U | ug/Kg dry | 7.96 | 25.5 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| N-Nitrosodiphenylamine | < 17.0 | 25.5 | U | ug/Kg dry | 5.89 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 17.0 | 25.5 | U | ug/Kg dry | 5.70 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 255 | 424 | U | ug/Kg dry | 45.7 | 255 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Phenanthrene | < 12.7 | 25.5 | U | ug/Kg dry | 4.40 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |

sterling labs - O'Hare Location
509 N. 3rd Avenue Des Plaines, IL 60016-1162 P 847.967.6666 800.246.0663 F 847.967.6735 www.thesterlinglab.com

## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:58
**Matrix:** Soil
**Lab ID:** O24J0276-06 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| Phenol | < 17.0 | 34.0 | U | ug/Kg dry | 4.69 | 17.0 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Pyrene | < 12.7 | 25.5 | U | ug/Kg dry | 4.68 | 12.7 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| Pyridine | < 340 | 679 | U | ug/Kg dry | 42.5 | 340 | 10/14/24 22:34 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 73%* | *Limits: 35-115* | | *10/14/24 22:34* | *B24J0296* | *LP* | 1 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 77%* | *Limits: 33-122* | | *10/14/24 22:34* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 75%* | *Limits: 37-122* | | *10/14/24 22:34* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 75%* | *Limits: 44-115* | | *10/14/24 22:34* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 81%* | *Limits: 39-132* | | *10/14/24 22:34* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 79%* | *Limits: 54-127* | | *10/14/24 22:34* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.109 | 0.218 | U | mg/Kg dry | 0.0414 | 0.109 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.545 | 0.653 | U | mg/Kg dry | 0.237 | 0.545 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.653 | 0.871 | U | mg/Kg dry | 0.310 | 0.653 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.218 | 0.327 | U | mg/Kg dry | 0.0719 | 0.218 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.218 | 0.327 | U | mg/Kg dry | 0.0664 | 0.218 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.109 | 0.218 | U | mg/Kg dry | 0.0359 | 0.109 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.272 | 0.327 | U | mg/Kg dry | 0.127 | 0.272 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.109 | 0.327 | U | mg/Kg dry | 0.0294 | 0.109 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.218 | 0.327 | U | mg/Kg dry | 0.0599 | 0.218 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.653 | 0.871 | U | mg/Kg dry | 0.310 | 0.653 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 94%* | *Limits: 10-127* | | *10/09/24 00:54* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 82%* | *Limits: 44-130* | | *10/09/24 00:54* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.36 | 8.71 | U | ug/Kg dry | 1.66 | 4.36 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.18 | 4.36 | U | ug/Kg dry | 1.07 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.36 | 8.71 | U | ug/Kg dry | 2.14 | 4.36 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.18 | 4.36 | U | ug/Kg dry | 0.646 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.18 | 4.36 | U | ug/Kg dry | 0.958 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.18 | 4.36 | U | ug/Kg dry | 0.770 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.36 | 8.71 | U | ug/Kg dry | 1.22 | 4.36 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Chlordane | < 21.8 | 43.6 | U | ug/Kg dry | 10.5 | 21.8 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.18 | 4.36 | U | ug/Kg dry | 1.02 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.18 | 4.36 | U | ug/Kg dry | 0.677 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:58
**Matrix:** Soil
**Lab ID:** O24J0276-06 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| Endosulfan I | < 2.18 | 4.36 | U | ug/Kg dry | 1.04 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.18 | 4.36 | U | ug/Kg dry | 0.989 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.36 | 8.71 | U | ug/Kg dry | 1.15 | 4.36 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Endrin | < 2.18 | 4.36 | U | ug/Kg dry | 0.785 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 4.36 | 8.71 | U | ug/Kg dry | 1.27 | 4.36 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.36 | 8.71 | U | ug/Kg dry | 1.35 | 4.36 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.18 | 4.36 | U | ug/Kg dry | 0.926 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.36 | 8.71 | U | ug/Kg dry | 1.87 | 4.36 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.18 | 4.36 | U | ug/Kg dry | 1.07 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.18 | 4.36 | U | ug/Kg dry | 1.20 | 2.18 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.36 | 8.71 | U | ug/Kg dry | 2.10 | 4.36 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| Toxaphene | < 272 | 545 | U | ug/Kg dry | 183 | 272 | 10/17/24 21:20 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 96%* | *Limits: 23-110* | | *10/17/24 21:20* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 97%* | *Limits: 42-129* | | *10/17/24 21:36* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **3,870** | 58.4 | D | mg/Kg dry | 8.09 | 46.7 | 10/09/24 15:43 | B24J0437 | CS2 | 10 |
| Antimony | < 0.935 | 1.17 | U | mg/Kg dry | 0.467 | 0.935 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Arsenic** | **1.02** | 1.17 | J | mg/Kg dry | 0.337 | 0.935 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Barium** | **7.66** | 1.17 | | mg/Kg dry | 0.182 | 0.467 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.108** | 0.117 | J | mg/Kg dry | 0.0280 | 0.0935 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.365** | 0.117 | | mg/Kg dry | 0.0234 | 0.0467 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Calcium** | **560** | 11.7 | B | mg/Kg dry | 4.67 | 9.35 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Chromium** | **19.0** | 1.17 | | mg/Kg dry | 0.323 | 0.935 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Cobalt** | **2.25** | 1.17 | | mg/Kg dry | 0.182 | 0.467 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Copper** | **1.87** | 1.17 | | mg/Kg dry | 0.276 | 0.935 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Iron** | **13,400** | 58.4 | D, B | mg/Kg dry | 28.0 | 56.1 | 10/09/24 15:43 | B24J0437 | CS2 | 10 |
| **Lead** | **12.2** | 1.17 | | mg/Kg dry | 0.280 | 0.935 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Magnesium** | **130** | 5.94 | | mg/Kg dry | 1.90 | 5.70 | 11/11/24 12:37 | B24K0386 | CS2 | 1 |
| **Manganese** | **86.2** | 1.17 | | mg/Kg dry | 0.196 | 0.467 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Nickel** | **5.27** | 1.17 | | mg/Kg dry | 0.206 | 0.467 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Potassium** | **116** | 11.7 | B | mg/Kg dry | 7.24 | 11.2 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| Selenium | < 0.935 | 1.17 | U, Q | mg/Kg dry | 0.337 | 0.935 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| Silver | < 0.935 | 1.17 | U | mg/Kg dry | 0.234 | 0.935 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Sodium** | **17.8** | 11.9 | | mg/Kg dry | 5.70 | 11.4 | 11/11/24 12:37 | B24K0386 | CS2 | 1 |
| Thallium | < 0.935 | 1.17 | U | mg/Kg dry | 0.449 | 0.935 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-110-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 09:58
**Matrix:** Soil
**Lab ID:** O24J0276-06 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Metals by ICP-AES (Continued)*** | | | | | | | | | | |
| **Method: SW6010D / SW3050 (Continued)** | | | | | | | | | | |
| **Vanadium** | **15.9** | 1.17 | | mg/Kg dry | 0.159 | 0.467 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| **Zinc** | **11.2** | 4.67 | | mg/Kg dry | 1.00 | 2.34 | 10/09/24 13:57 | B24J0437 | CS2 | 1 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| Mercury | < 0.0290 | 0.0483 | U | mg/Kg dry | 0.0145 | 0.0290 | 10/15/24 11:51 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **88.1** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:07
**Matrix:** Soil
**Lab ID:** O24J0276-07

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 1.23 | 2.46 | U | ug/Kg dry | 0.498 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 1.23 | 2.46 | U | ug/Kg dry | 0.504 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 1.23 | 2.46 | U | ug/Kg dry | 0.438 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 1.23 | 2.46 | U | ug/Kg dry | 0.540 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethane | < 2.46 | 4.92 | U | ug/Kg dry | 0.668 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethene | < 1.23 | 2.46 | U | ug/Kg dry | 0.533 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,1-Dichloropropene | < 12.3 | 24.6 | U | ug/Kg dry | 3.49 | 12.3 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 24.6 | 49.2 | U, Q | ug/Kg dry | 7.97 | 24.6 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 12.3 | 24.6 | U | ug/Kg dry | 4.71 | 12.3 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 24.6 | 49.2 | U | ug/Kg dry | 7.82 | 24.6 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 4.92 | 9.84 | U | ug/Kg dry | 1.32 | 4.92 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 4.92 | 9.84 | U | ug/Kg dry | 2.04 | 4.92 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,2-Dibromoethane | < 1.23 | 2.46 | U | ug/Kg dry | 0.334 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 6.15 | 12.3 | U | ug/Kg dry | 2.15 | 6.15 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethane | < 1.23 | 2.46 | U | ug/Kg dry | 0.505 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,2-Dichloropropane | < 1.23 | 2.46 | U | ug/Kg dry | 0.594 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 2.46 | 4.92 | U | ug/Kg dry | 1.23 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 2.46 | 4.92 | U | ug/Kg dry | 0.881 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,3-Dichloropropane | < 1.23 | 2.46 | U | ug/Kg dry | 0.550 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,4-Dioxane | < 49.2 | 98.4 | U, Q | ug/Kg dry | 18.8 | 49.2 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 6.15 | 12.3 | U | ug/Kg dry | 2.25 | 6.15 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1-Propanol | < 123 | 246 | U | ug/Kg dry | 39.1 | 123 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 2,2-Dichloropropane | < 1.23 | 2.46 | U | ug/Kg dry | 0.407 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 2-Butanone | < 17.2 | 34.4 | U | ug/Kg dry | 8.38 | 17.2 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 61.5 | 123 | U | ug/Kg dry | 24.6 | 61.5 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 2-Chlorotoluene | < 2.46 | 4.92 | U | ug/Kg dry | 1.08 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 2-Hexanone | < 17.2 | 34.4 | U | ug/Kg dry | 6.53 | 17.2 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 4-Chlorotoluene | < 2.46 | 4.92 | U | ug/Kg dry | 1.08 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 4-Isopropyltoluene | < 4.92 | 9.84 | U | ug/Kg dry | 1.44 | 4.92 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 17.2 | 34.4 | U | ug/Kg dry | 5.02 | 17.2 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **Acetone** | **152** | 86.1 | | ug/Kg dry | 14.9 | 43.0 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Acetonitrile | < 123 | 246 | U | ug/Kg dry | 38.4 | 123 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Acrolein | < 24.6 | 49.2 | U | ug/Kg dry | 10.3 | 24.6 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Acrylonitrile | < 2.46 | 4.92 | U | ug/Kg dry | 1.21 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **Benzene** | **0.578** | 2.46 | J | ug/Kg dry | 0.354 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Bromobenzene | < 2.46 | 4.92 | U | ug/Kg dry | 0.691 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Bromochloromethane | < 2.46 | 4.92 | U | ug/Kg dry | 0.863 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:07
**Matrix:** Soil
**Lab ID:** O24J0276-07 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 1.23 | 2.46 | U | ug/Kg dry | 0.592 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Bromoform | < 2.46 | 4.92 | U | ug/Kg dry | 0.775 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Bromomethane | < 12.3 | 24.6 | U, Q | ug/Kg dry | 2.96 | 12.3 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **Carbon disulfide** | **3.05** | 4.92 | J | ug/Kg dry | 0.740 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Carbon tetrachloride | < 12.3 | 24.6 | U | ug/Kg dry | 3.43 | 12.3 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Chlorobenzene | < 2.46 | 4.92 | U | ug/Kg dry | 0.640 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Chloroethane | < 4.92 | 9.84 | U | ug/Kg dry | 1.74 | 4.92 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Chloroform | < 2.46 | 4.92 | U | ug/Kg dry | 0.899 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Chloromethane | < 4.92 | 9.84 | U | ug/Kg dry | 1.80 | 4.92 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| cis-1,2-Dichloroethene | < 2.46 | 4.92 | U | ug/Kg dry | 0.702 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 2.46 | 4.92 | U | ug/Kg dry | 0.851 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Cyclohexane | < 6.15 | 12.3 | U | ug/Kg dry | 1.89 | 6.15 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Dibromochloromethane | < 1.23 | 2.46 | U | ug/Kg dry | 0.585 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Dibromomethane | < 1.23 | 2.46 | U | ug/Kg dry | 0.450 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Dichlorodifluoromethane | < 6.15 | 12.3 | U | ug/Kg dry | 1.49 | 6.15 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Ethylbenzene | < 4.92 | 9.84 | U | ug/Kg dry | 1.27 | 4.92 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Isobutanol | < 49.2 | 98.4 | U | ug/Kg dry | 13.1 | 49.2 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Isopropanol | < 49.2 | 98.4 | U | ug/Kg dry | 21.3 | 49.2 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Isopropylbenzene | < 2.46 | 4.92 | U | ug/Kg dry | 1.22 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| m,p-Xylene | < 4.92 | 9.84 | U | ug/Kg dry | 1.99 | 4.92 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Methyl tert-butyl ether | < 1.23 | 2.46 | U | ug/Kg dry | 0.411 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Methylene chloride | < 12.3 | 24.6 | U | ug/Kg dry | 4.83 | 12.3 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| n-Butylbenzene | < 12.3 | 24.6 | U, Q | ug/Kg dry | 3.52 | 12.3 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| n-Propylbenzene | < 2.46 | 4.92 | U | ug/Kg dry | 1.18 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Naphthalene | < 24.6 | 49.2 | U, Q | ug/Kg dry | 12.2 | 24.6 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| o-Xylene | < 4.92 | 9.84 | U | ug/Kg dry | 1.26 | 4.92 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| sec-Butylbenzene | < 2.46 | 4.92 | U, Q | ug/Kg dry | 1.21 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Styrene | < 4.92 | 9.84 | U | ug/Kg dry | 1.35 | 4.92 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| tert-Butylbenzene | < 2.46 | 4.92 | U | ug/Kg dry | 0.467 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Tetrachloroethene | < 2.46 | 4.92 | U | ug/Kg dry | 0.719 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Tetrahydrofuran | < 6.15 | 12.3 | U | ug/Kg dry | 1.77 | 6.15 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **Toluene** | **0.849** | 2.46 | J | ug/Kg dry | 0.445 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 2.46 | 4.92 | U | ug/Kg dry | 1.14 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 2.46 | 4.92 | U | ug/Kg dry | 1.01 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Trichloroethene | < 1.23 | 2.46 | U | ug/Kg dry | 0.597 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Trichlorofluoromethane | < 1.23 | 2.46 | U | ug/Kg dry | 0.510 | 1.23 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Vinyl acetate | < 2.46 | 4.92 | U, Q | ug/Kg dry | 0.627 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:07
**Matrix:** Soil
**Lab ID:** O24J0276-07 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 2.46 | 4.92 | U | ug/Kg dry | 0.879 | 2.46 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| Xylenes, Total | < 7.38 | 14.8 | U | ug/Kg dry | 3.15 | 7.38 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethene, Total | < 4.92 | 9.84 | U | ug/Kg dry | 1.61 | 4.92 | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 108%* | *Limits: 78-119* | | *10/08/24 14:47* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 104%* | *Limits: 71-136* | | *10/08/24 14:47* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 100%* | *Limits: 81-114* | | *10/08/24 14:47* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 95%* | *Limits: 85-116* | | *10/08/24 14:47* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 110%* | *Limits: 79-119* | | *10/08/24 14:47* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 111%* | *Limits: 78-121* | | *10/08/24 14:47* | *B24J0623* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **Acetaldehyde** | **11.7** | | | ug/Kg | | | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **Butanal** | **3.70** | | | ug/Kg | | | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **Hexanal** | **10.1** | | | ug/Kg | | | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **Pentanal** | **4.43** | | | ug/Kg | | | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **unknown** | **30.7** | | | ug/Kg | | | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **unknown (01)** | **8.51** | | | ug/Kg | | | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **unknown (02)** | **4.83** | | | ug/Kg | | | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **unknown (03)** | **2.18** | | | ug/Kg | | | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| **unknown (04)** | **2.84** | | | ug/Kg | | | 10/08/24 14:47 | B24J0623 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| **1-Methylnaphthalene** | **19.0** | 19.7 | J | ug/Kg dry | 3.15 | 9.87 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **2-Methylnaphthalene** | **19.4** | 19.7 | J | ug/Kg dry | 3.35 | 9.87 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Acenaphthene** | **260** | 19.7 | | ug/Kg dry | 3.60 | 9.87 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Acenaphthylene** | **23.4** | 19.7 | | ug/Kg dry | 5.36 | 12.3 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Anthracene** | **348** | 19.7 | | ug/Kg dry | 5.03 | 12.3 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Benzo(a)anthracene** | **1,330** | 19.7 | | ug/Kg dry | 3.94 | 9.87 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Benzo(a)pyrene** | **1,440** | 19.7 | | ug/Kg dry | 3.01 | 9.87 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Benzo(b)fluoranthene** | **2,140** | 19.7 | | ug/Kg dry | 6.35 | 12.3 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Benzo(g,h,i)perylene** | **1,040** | 19.7 | | ug/Kg dry | 6.15 | 12.3 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Benzo(k)fluoranthene** | **833** | 19.7 | | ug/Kg dry | 5.15 | 12.3 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Chrysene** | **1,640** | 19.7 | | ug/Kg dry | 4.15 | 9.87 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Dibenzo(a,h)anthracene** | **245** | 19.7 | | ug/Kg dry | 4.98 | 12.3 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Fluoranthene** | **3,940** | 19.7 | | ug/Kg dry | 6.14 | 12.3 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:07
**Matrix:** Soil
**Lab ID:** O24J0276-07 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550 (Continued)** | | | | | | | | | | |
| **Fluorene** | **179** | 19.7 | | ug/Kg dry | 4.70 | 9.87 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Indeno(1,2,3-cd)pyrene** | **1,140** | 19.7 | | ug/Kg dry | 5.01 | 12.3 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Naphthalene** | **34.5** | 19.7 | | ug/Kg dry | 5.91 | 12.3 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Phenanthrene** | **2,610** | 19.7 | | ug/Kg dry | 4.84 | 9.87 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| **Pyrene** | **2,980** | 19.7 | | ug/Kg dry | 2.70 | 12.3 | 10/11/24 17:00 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 79%* | *Limits: 57-119* | | *10/11/24 17:00* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 61%* | *Limits: 54-133* | | *10/11/24 17:00* | *B24J0527* | *MS5* | 1 |
| **Method: SW8270E / SW3550** | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | < 96.5 | 145 | U | ug/Kg dry | 27.3 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 1,2-Dichlorobenzene | < 96.5 | 145 | U | ug/Kg dry | 25.1 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 1,3-Dichlorobenzene | < 72.4 | 145 | U | ug/Kg dry | 23.9 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 1,4-Dichlorobenzene | < 96.5 | 145 | U | ug/Kg dry | 22.9 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **1-Methylnaphthalene** | **219** | 145 | | ug/Kg dry | 27.1 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2,4,5-Trichlorophenol | < 48.2 | 96.5 | U | ug/Kg dry | 17.1 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2,4,6-Trichlorophenol | < 48.2 | 96.5 | U | ug/Kg dry | 31.9 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2,4-Dichlorophenol | < 48.2 | 96.5 | U | ug/Kg dry | 15.4 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2,4-Dimethylphenol | < 145 | 289 | U | ug/Kg dry | 19.9 | 145 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2,4-Dinitrophenol | < 1,450 | 2,410 | U | ug/Kg dry | 328 | 1,450 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2,4-Dinitrotoluene | < 96.5 | 145 | U | ug/Kg dry | 31.8 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2,6-Dichlorophenol | < 48.2 | 96.5 | U | ug/Kg dry | 15.2 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2,6-Dinitrotoluene | < 48.2 | 96.5 | U | ug/Kg dry | 17.2 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2-Chloronaphthalene | < 48.2 | 96.5 | U | ug/Kg dry | 20.5 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2-Chlorophenol | < 48.2 | 96.5 | U | ug/Kg dry | 21.5 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **2-Methylnaphthalene** | **334** | 145 | | ug/Kg dry | 23.5 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2-Methylphenol | < 24.1 | 48.2 | U | ug/Kg dry | 11.1 | 24.1 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2-Nitroaniline | < 96.5 | 145 | U | ug/Kg dry | 29.4 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 2-Nitrophenol | < 96.5 | 145 | U | ug/Kg dry | 40.5 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 3,3´-Dichlorobenzidine | < 289 | 579 | U | ug/Kg dry | 91.9 | 289 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 3 & 4-Methylphenol | < 96.5 | 193 | U | ug/Kg dry | 37.6 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 3-Nitroaniline | < 96.5 | 145 | U | ug/Kg dry | 51.4 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 4,6-Dinitro-2-methylphenol | < 1,930 | 3,860 | U | ug/Kg dry | 569 | 1,930 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 4-Bromophenyl-phenylether | < 72.4 | 145 | U | ug/Kg dry | 25.6 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 4-Chloro-3-methylphenol | < 48.2 | 96.5 | U | ug/Kg dry | 13.2 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 4-Chloroaniline | < 72.4 | 145 | U | ug/Kg dry | 23.2 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 4-Chlorophenyl-phenylether | < 72.4 | 145 | U | ug/Kg dry | 24.5 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| 4-Nitroaniline | < 96.5 | 193 | U | ug/Kg dry | 19.1 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:07
**Matrix:** Soil
**Lab ID:** O24J0276-07 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Nitrophenol | < 1,930 | 3,860 | U | ug/Kg dry | 640 | 1,930 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Acenaphthene** | **2,970** | 96.5 | | ug/Kg dry | 19.4 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Acenaphthylene** | **106** | 96.5 | | ug/Kg dry | 21.8 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Aniline | < 579 | 965 | U | ug/Kg dry | 34.1 | 579 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Anthracene** | **4,580** | 145 | | ug/Kg dry | 27.8 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Azobenzene as 1,2-Diphenylhydrazine | < 48.2 | 96.5 | U | ug/Kg dry | 13.8 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Benzidine | < 3,860 | 16,100 | U | ug/Kg dry | 818 | 3,860 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Benzo(a)anthracene** | **12,000** | 145 | | ug/Kg dry | 24.2 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Benzo(a)pyrene** | **11,000** | 386 | | ug/Kg dry | 29.6 | 193 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Benzo(b)fluoranthene** | **16,600** | 145 | | ug/Kg dry | 38.7 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Benzo(g,h,i)perylene** | **7,620** | 193 | | ug/Kg dry | 21.4 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Benzo(k)fluoranthene** | **5,540** | 193 | | ug/Kg dry | 23.6 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Benzoic acid | < 1,930 | 7,720 | U | ug/Kg dry | 480 | 1,930 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Benzyl alcohol | < 72.4 | 145 | U | ug/Kg dry | 24.8 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Bis(2-chloroethoxy)methane | < 48.2 | 96.5 | U | ug/Kg dry | 21.1 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Bis(2-chloroethyl)ether | < 1,930 | 2,410 | U | ug/Kg dry | 256 | 1,930 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Bis(2-ethylhexyl)phthalate | < 579 | 965 | U | ug/Kg dry | 163 | 579 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Butyl benzyl phthalate | < 145 | 289 | U | ug/Kg dry | 40.0 | 145 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Carbazole** | **4,710** | 96.5 | | ug/Kg dry | 16.3 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Chrysene** | **12,900** | 96.5 | | ug/Kg dry | 15.4 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Dibenzo(a,h)anthracene** | **1,810** | 145 | | ug/Kg dry | 58.6 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Dibenzofuran** | **1,350** | 145 | | ug/Kg dry | 21.5 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Diethyl phthalate | < 579 | 965 | U | ug/Kg dry | 167 | 579 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Dimethyl phthalate | < 48.2 | 96.5 | U | ug/Kg dry | 19.4 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Di-n-butyl phthalate | < 145 | 289 | U | ug/Kg dry | 53.7 | 145 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Di-n-octyl phthalate | < 96.5 | 145 | U | ug/Kg dry | 35.4 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Fluoranthene** | **33,200** | 579 | | ug/Kg dry | 125 | 386 | 10/16/24 18:51 | B24J0296 | LP | 20 |
| **Fluorene** | **2,110** | 96.5 | | ug/Kg dry | 19.0 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Hexachlorobenzene | < 48.2 | 96.5 | U | ug/Kg dry | 18.6 | 48.2 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Hexachlorobutadiene | < 96.5 | 193 | U | ug/Kg dry | 29.7 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Hexachlorocyclopentadiene | < 1,930 | 3,860 | U | ug/Kg dry | 363 | 1,930 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Hexachloroethane | < 96.5 | 193 | U | ug/Kg dry | 26.5 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Indeno(1,2,3-cd)pyrene** | **8,110** | 145 | | ug/Kg dry | 38.2 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Isophorone | < 72.4 | 145 | U | ug/Kg dry | 18.4 | 72.4 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Naphthalene** | **748** | 145 | | ug/Kg dry | 27.7 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Nitrobenzene | < 96.5 | 193 | U | ug/Kg dry | 25.0 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| N-Nitrosodimethylamine | < 96.5 | 193 | U | ug/Kg dry | 36.5 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:07
**Matrix:** Soil
**Lab ID:** O24J0276-07 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| N-Nitrosodi-n-propylamine | < 145 | 289 | U | ug/Kg dry | 45.3 | 145 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| N-Nitrosodiphenylamine | < 96.5 | 145 | U | ug/Kg dry | 33.4 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| N-Nitrosopyrrolidine | < 96.5 | 145 | U | ug/Kg dry | 32.4 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| Pentachlorophenol | < 1,450 | 2,410 | U | ug/Kg dry | 260 | 1,450 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Phenanthrene** | **26,200** | 579 | | ug/Kg dry | 100 | 289 | 10/16/24 18:51 | B24J0296 | LP | 20 |
| Phenol | < 96.5 | 193 | U | ug/Kg dry | 26.6 | 96.5 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| **Pyrene** | **23,000** | 579 | | ug/Kg dry | 106 | 289 | 10/16/24 18:51 | B24J0296 | LP | 20 |
| Pyridine | < 1,930 | 3,860 | U | ug/Kg dry | 241 | 1,930 | 10/15/24 00:18 | B24J0296 | LP | 5 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 75%* | *Limits: 35-115* | | *10/15/24 00:18* | *B24J0296* | *LP* | 5 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 81%* | *Limits: 33-122* | | *10/15/24 00:18* | *B24J0296* | *LP* | 5 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 78%* | *Limits: 37-122* | | *10/15/24 00:18* | *B24J0296* | *LP* | 5 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 82%* | *Limits: 44-115* | | *10/15/24 00:18* | *B24J0296* | *LP* | 5 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 86%* | *Limits: 39-132* | | *10/15/24 00:18* | *B24J0296* | *LP* | 5 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 85%* | *Limits: 54-127* | | *10/15/24 00:18* | *B24J0296* | *LP* | 5 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.126 | 0.253 | U | mg/Kg dry | 0.0480 | 0.126 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.632 | 0.758 | U | mg/Kg dry | 0.276 | 0.632 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.758 | 1.01 | U | mg/Kg dry | 0.360 | 0.758 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.253 | 0.379 | U | mg/Kg dry | 0.0834 | 0.253 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.253 | 0.379 | U | mg/Kg dry | 0.0771 | 0.253 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.126 | 0.253 | U | mg/Kg dry | 0.0417 | 0.126 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.316 | 0.379 | U | mg/Kg dry | 0.148 | 0.316 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.126 | 0.379 | U | mg/Kg dry | 0.0341 | 0.126 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.253 | 0.379 | U | mg/Kg dry | 0.0695 | 0.253 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.758 | 1.01 | U | mg/Kg dry | 0.360 | 0.758 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 91%* | *Limits: 10-127* | | *10/09/24 01:11* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 67%* | *Limits: 44-130* | | *10/09/24 01:11* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 5.06 | 10.1 | U | ug/Kg dry | 1.92 | 5.06 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| **4,4'-DDE** | **13.0** | 5.06 | | ug/Kg dry | 1.25 | 2.53 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| **4,4'-DDT** | **12.7** | 10.1 | | ug/Kg dry | 2.48 | 5.06 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.53 | 5.06 | U | ug/Kg dry | 0.750 | 2.53 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.53 | 5.06 | U | ug/Kg dry | 1.11 | 2.53 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:07
**Matrix:** Soil
**Lab ID:** O24J0276-07 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| **alpha-Chlordane** | **3.16** | 5.06 | J | ug/Kg dry | 0.893 | 2.53 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| beta-BHC | < 5.06 | 10.1 | U | ug/Kg dry | 1.41 | 5.06 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| **Chlordane** | **26.4** | 50.6 | J | ug/Kg dry | 12.2 | 25.3 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.53 | 5.06 | U | ug/Kg dry | 1.19 | 2.53 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| **Dieldrin** | **183** | 5.06 | | ug/Kg dry | 0.786 | 2.53 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.53 | 5.06 | U | ug/Kg dry | 1.21 | 2.53 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.53 | 5.06 | U | ug/Kg dry | 1.15 | 2.53 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 5.06 | 10.1 | U | ug/Kg dry | 1.33 | 5.06 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| Endrin | < 2.53 | 5.06 | U | ug/Kg dry | 0.911 | 2.53 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 5.06 | 10.1 | U | ug/Kg dry | 1.47 | 5.06 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 5.06 | 10.1 | U | ug/Kg dry | 1.56 | 5.06 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.53 | 5.06 | U | ug/Kg dry | 1.07 | 2.53 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 5.06 | 10.1 | U | ug/Kg dry | 2.17 | 5.06 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.53 | 5.06 | U | ug/Kg dry | 1.24 | 2.53 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.53 | 5.06 | U | ug/Kg dry | 1.39 | 2.53 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 5.06 | 10.1 | U | ug/Kg dry | 2.43 | 5.06 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Toxaphene | < 316 | 632 | U | ug/Kg dry | 213 | 316 | 10/17/24 21:36 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 90%* | *Limits: 23-110* | | *10/17/24 21:36* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 86%* | *Limits: 42-129* | | *10/17/24 21:36* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **14,400** | 65.0 | D | mg/Kg dry | 8.99 | 52.0 | 10/09/24 15:47 | B24J0437 | CS2 | 10 |
| Antimony | < 1.04 | 1.30 | U | mg/Kg dry | 0.520 | 1.04 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Arsenic** | **6.97** | 1.30 | | mg/Kg dry | 0.374 | 1.04 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Barium** | **130** | 1.30 | | mg/Kg dry | 0.203 | 0.520 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.307** | 0.130 | | mg/Kg dry | 0.0312 | 0.104 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.564** | 0.130 | | mg/Kg dry | 0.0260 | 0.0520 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Calcium** | **33,900** | 130 | D, B | mg/Kg dry | 52.0 | 104 | 10/09/24 15:47 | B24J0437 | CS2 | 10 |
| **Chromium** | **21.0** | 1.30 | | mg/Kg dry | 0.359 | 1.04 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Cobalt** | **6.88** | 1.30 | | mg/Kg dry | 0.203 | 0.520 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Copper** | **20.1** | 1.30 | | mg/Kg dry | 0.307 | 1.04 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Iron** | **18,200** | 65.0 | D, B | mg/Kg dry | 31.2 | 62.4 | 10/09/24 15:47 | B24J0437 | CS2 | 10 |
| **Lead** | **54.6** | 1.30 | | mg/Kg dry | 0.312 | 1.04 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Magnesium** | **4,750** | 6.73 | | mg/Kg dry | 2.15 | 6.46 | 11/11/24 12:41 | B24K0386 | CS2 | 1 |
| **Manganese** | **559** | 1.30 | | mg/Kg dry | 0.218 | 0.520 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Nickel** | **16.3** | 1.30 | | mg/Kg dry | 0.229 | 0.520 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:07
**Matrix:** Soil
**Lab ID:** O24J0276-07 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Metals by ICP-AES (Continued)*** | | | | | | | | | | |
| **Method: SW6010D / SW3050 (Continued)** | | | | | | | | | | |
| **Potassium** | **1,220** | 14.6 | | mg/Kg dry | 9.03 | 14.0 | 11/15/24 16:02 | B24K0661 | CS2 | 1 |
| Selenium | < 1.04 | 1.30 | U, Q | mg/Kg dry | 0.374 | 1.04 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| Silver | < 1.04 | 1.30 | U | mg/Kg dry | 0.260 | 1.04 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Sodium** | **61.5** | 13.5 | | mg/Kg dry | 6.46 | 12.9 | 11/11/24 12:41 | B24K0386 | CS2 | 1 |
| Thallium | < 1.04 | 1.30 | U | mg/Kg dry | 0.499 | 1.04 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Vanadium** | **26.6** | 1.30 | | mg/Kg dry | 0.177 | 0.520 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| **Zinc** | **90.8** | 5.20 | | mg/Kg dry | 1.12 | 2.60 | 10/09/24 14:01 | B24J0437 | CS2 | 1 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| **Mercury** | **0.0302** | 0.0623 | J | mg/Kg dry | 0.0187 | 0.0374 | 10/15/24 11:54 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **77.5** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-7-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:34
**Matrix:** Soil
**Lab ID:** O24J0276-08

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.878 | 1.76 | U | ug/Kg dry | 0.356 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.878 | 1.76 | U | ug/Kg dry | 0.359 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.878 | 1.76 | U | ug/Kg dry | 0.313 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.878 | 1.76 | U | ug/Kg dry | 0.385 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.76 | 3.51 | U | ug/Kg dry | 0.477 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethene | < 0.878 | 1.76 | U | ug/Kg dry | 0.381 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,1-Dichloropropene | < 8.78 | 17.6 | U | ug/Kg dry | 2.49 | 8.78 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 17.6 | 35.1 | U, Q | ug/Kg dry | 5.69 | 17.6 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 8.78 | 17.6 | U | ug/Kg dry | 3.36 | 8.78 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 17.6 | 35.1 | U | ug/Kg dry | 5.58 | 17.6 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 3.51 | 7.02 | U | ug/Kg dry | 0.946 | 3.51 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.51 | 7.02 | U | ug/Kg dry | 1.46 | 3.51 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.878 | 1.76 | U | ug/Kg dry | 0.239 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 4.39 | 8.78 | U | ug/Kg dry | 1.54 | 4.39 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.878 | 1.76 | U | ug/Kg dry | 0.361 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.878 | 1.76 | U | ug/Kg dry | 0.424 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.877 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.629 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.878 | 1.76 | U | ug/Kg dry | 0.393 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,4-Dioxane | < 35.1 | 70.2 | U, Q | ug/Kg dry | 13.5 | 35.1 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 4.39 | 8.78 | U | ug/Kg dry | 1.61 | 4.39 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1-Propanol | < 87.8 | 176 | U | ug/Kg dry | 27.9 | 87.8 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.878 | 1.76 | U | ug/Kg dry | 0.291 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 2-Butanone | < 12.3 | 24.6 | U | ug/Kg dry | 5.98 | 12.3 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 43.9 | 87.8 | U | ug/Kg dry | 17.6 | 43.9 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 2-Chlorotoluene | < 1.76 | 3.51 | U | ug/Kg dry | 0.770 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 2-Hexanone | < 12.3 | 24.6 | U | ug/Kg dry | 4.66 | 12.3 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 4-Chlorotoluene | < 1.76 | 3.51 | U | ug/Kg dry | 0.769 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 4-Isopropyltoluene | < 3.51 | 7.02 | U | ug/Kg dry | 1.03 | 3.51 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 12.3 | 24.6 | U | ug/Kg dry | 3.58 | 12.3 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Acetone | < 30.7 | 61.5 | U | ug/Kg dry | 10.6 | 30.7 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Acetonitrile | < 87.8 | 176 | U | ug/Kg dry | 27.4 | 87.8 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Acrolein | < 17.6 | 35.1 | U | ug/Kg dry | 7.37 | 17.6 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Acrylonitrile | < 1.76 | 3.51 | U | ug/Kg dry | 0.860 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Benzene | < 0.878 | 1.76 | U | ug/Kg dry | 0.253 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Bromobenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.494 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Bromochloromethane | < 1.76 | 3.51 | U | ug/Kg dry | 0.616 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-7-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:34
**Matrix:** Soil
**Lab ID:** O24J0276-08 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.878 | 1.76 | U | ug/Kg dry | 0.423 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Bromoform | < 1.76 | 3.51 | U | ug/Kg dry | 0.553 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Bromomethane | < 8.78 | 17.6 | U, Q | ug/Kg dry | 2.11 | 8.78 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| **Carbon disulfide** | **1.26** | 3.51 | J | ug/Kg dry | 0.529 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Carbon tetrachloride | < 8.78 | 17.6 | U | ug/Kg dry | 2.45 | 8.78 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Chlorobenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.457 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Chloroethane | < 3.51 | 7.02 | U | ug/Kg dry | 1.24 | 3.51 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Chloroform | < 1.76 | 3.51 | U | ug/Kg dry | 0.642 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Chloromethane | < 3.51 | 7.02 | U | ug/Kg dry | 1.28 | 3.51 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| cis-1,2-Dichloroethene | < 1.76 | 3.51 | U | ug/Kg dry | 0.501 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 1.76 | 3.51 | U | ug/Kg dry | 0.608 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Cyclohexane | < 4.39 | 8.78 | U | ug/Kg dry | 1.35 | 4.39 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Dibromochloromethane | < 0.878 | 1.76 | U | ug/Kg dry | 0.418 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Dibromomethane | < 0.878 | 1.76 | U | ug/Kg dry | 0.321 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Dichlorodifluoromethane | < 4.39 | 8.78 | U | ug/Kg dry | 1.06 | 4.39 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Ethylbenzene | < 3.51 | 7.02 | U | ug/Kg dry | 0.909 | 3.51 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Isobutanol | < 35.1 | 70.2 | U | ug/Kg dry | 9.34 | 35.1 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Isopropanol | < 35.1 | 70.2 | U | ug/Kg dry | 15.2 | 35.1 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Isopropylbenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.872 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| m,p-Xylene | < 3.51 | 7.02 | U | ug/Kg dry | 1.42 | 3.51 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.878 | 1.76 | U | ug/Kg dry | 0.294 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Methylene chloride | < 8.78 | 17.6 | U | ug/Kg dry | 3.45 | 8.78 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| n-Butylbenzene | < 8.78 | 17.6 | U, Q | ug/Kg dry | 2.51 | 8.78 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| n-Propylbenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.840 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Naphthalene | < 17.6 | 35.1 | U, Q | ug/Kg dry | 8.72 | 17.6 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| o-Xylene | < 3.51 | 7.02 | U | ug/Kg dry | 0.897 | 3.51 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| sec-Butylbenzene | < 1.76 | 3.51 | U, Q | ug/Kg dry | 0.862 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Styrene | < 3.51 | 7.02 | U | ug/Kg dry | 0.963 | 3.51 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| tert-Butylbenzene | < 1.76 | 3.51 | U | ug/Kg dry | 0.334 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Tetrachloroethene | < 1.76 | 3.51 | U | ug/Kg dry | 0.513 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Tetrahydrofuran | < 4.39 | 8.78 | U | ug/Kg dry | 1.26 | 4.39 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Toluene | < 0.878 | 1.76 | U | ug/Kg dry | 0.317 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 1.76 | 3.51 | U | ug/Kg dry | 0.813 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.76 | 3.51 | U | ug/Kg dry | 0.719 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Trichloroethene | < 0.878 | 1.76 | U | ug/Kg dry | 0.426 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Trichlorofluoromethane | < 0.878 | 1.76 | U | ug/Kg dry | 0.364 | 0.878 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Vinyl acetate | < 1.76 | 3.51 | U, Q | ug/Kg dry | 0.448 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-7-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:34
**Matrix:** Soil
**Lab ID:** O24J0276-08 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 1.76 | 3.51 | U | ug/Kg dry | 0.627 | 1.76 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| Xylenes, Total | < 5.27 | 10.5 | U | ug/Kg dry | 2.25 | 5.27 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethene, Total | < 3.51 | 7.02 | U | ug/Kg dry | 1.15 | 3.51 | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 108%* | *Limits: 78-119* | | *10/08/24 15:16* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 109%* | *Limits: 71-136* | | *10/08/24 15:16* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 99%* | *Limits: 81-114* | | *10/08/24 15:16* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 94%* | *Limits: 85-116* | | *10/08/24 15:16* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 108%* | *Limits: 79-119* | | *10/08/24 15:16* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 105%* | *Limits: 78-121* | | *10/08/24 15:16* | *B24J0623* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **Propene** | **10.4** | | | ug/Kg | | | 10/08/24 15:16 | B24J0623 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| 1-Methylnaphthalene | < 8.62 | 17.2 | U | ug/Kg dry | 2.75 | 8.62 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 8.62 | 17.2 | U | ug/Kg dry | 2.92 | 8.62 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| Acenaphthene | < 8.62 | 17.2 | U | ug/Kg dry | 3.14 | 8.62 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 10.8 | 17.2 | U | ug/Kg dry | 4.68 | 10.8 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| Anthracene | < 10.8 | 17.2 | U | ug/Kg dry | 4.39 | 10.8 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| **Benzo(a)anthracene** | **5.96** | 17.2 | J | ug/Kg dry | 3.44 | 8.62 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| **Benzo(a)pyrene** | **6.28** | 17.2 | J | ug/Kg dry | 2.63 | 8.62 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| **Benzo(b)fluoranthene** | **8.44** | 17.2 | J | ug/Kg dry | 5.55 | 10.8 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 10.8 | 17.2 | U | ug/Kg dry | 5.38 | 10.8 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| **Benzo(k)fluoranthene** | **5.03** | 17.2 | J | ug/Kg dry | 4.50 | 10.8 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| **Chrysene** | **4.88** | 17.2 | J | ug/Kg dry | 3.62 | 8.62 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 10.8 | 17.2 | U | ug/Kg dry | 4.35 | 10.8 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| **Fluoranthene** | **12.6** | 17.2 | J | ug/Kg dry | 5.36 | 10.8 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| Fluorene | < 8.62 | 17.2 | U | ug/Kg dry | 4.11 | 8.62 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| **Indeno(1,2,3-cd)pyrene** | **4.99** | 17.2 | J | ug/Kg dry | 4.38 | 10.8 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| Naphthalene | < 10.8 | 17.2 | U | ug/Kg dry | 5.17 | 10.8 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| Phenanthrene | < 8.62 | 17.2 | U | ug/Kg dry | 4.23 | 8.62 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| **Pyrene** | **8.37** | 17.2 | J | ug/Kg dry | 2.36 | 10.8 | 10/11/24 17:21 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 81%* | *Limits: 57-119* | | *10/11/24 17:21* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 69%* | *Limits: 54-133* | | *10/11/24 17:21* | *B24J0527* | *MS5* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-7-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:34
**Matrix:** Soil
**Lab ID:** O24J0276-08 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 18.3 | 27.5 | U | ug/Kg dry | 5.18 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 18.3 | 27.5 | U | ug/Kg dry | 4.77 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 13.8 | 27.5 | U | ug/Kg dry | 4.54 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 18.3 | 27.5 | U | ug/Kg dry | 4.36 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 13.8 | 27.5 | U | ug/Kg dry | 5.16 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 9.17 | 18.3 | U | ug/Kg dry | 3.26 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 9.17 | 18.3 | U | ug/Kg dry | 6.07 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 9.17 | 18.3 | U | ug/Kg dry | 2.93 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 27.5 | 55.0 | U | ug/Kg dry | 3.78 | 27.5 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 275 | 459 | U | ug/Kg dry | 62.3 | 275 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 18.3 | 27.5 | U | ug/Kg dry | 6.05 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 9.17 | 18.3 | U | ug/Kg dry | 2.89 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 9.17 | 18.3 | U | ug/Kg dry | 3.26 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 9.17 | 18.3 | U | ug/Kg dry | 3.90 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 9.17 | 18.3 | U | ug/Kg dry | 4.09 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 13.8 | 27.5 | U | ug/Kg dry | 4.47 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.59 | 9.17 | U | ug/Kg dry | 2.11 | 4.59 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2-Nitroaniline | < 18.3 | 27.5 | U | ug/Kg dry | 5.58 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 18.3 | 27.5 | U | ug/Kg dry | 7.69 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 55.0 | 110 | U | ug/Kg dry | 17.5 | 55.0 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 18.3 | 36.7 | U | ug/Kg dry | 7.15 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 18.3 | 27.5 | U | ug/Kg dry | 9.76 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 367 | 734 | U | ug/Kg dry | 108 | 367 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 13.8 | 27.5 | U | ug/Kg dry | 4.86 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 9.17 | 18.3 | U | ug/Kg dry | 2.52 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 13.8 | 27.5 | U | ug/Kg dry | 4.41 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 13.8 | 27.5 | U | ug/Kg dry | 4.65 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 18.3 | 36.7 | U | ug/Kg dry | 3.64 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 367 | 734 | U | ug/Kg dry | 122 | 367 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Acenaphthene | < 9.17 | 18.3 | U | ug/Kg dry | 3.68 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Acenaphthylene | < 9.17 | 18.3 | U | ug/Kg dry | 4.14 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Aniline | < 110 | 183 | U | ug/Kg dry | 6.48 | 110 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Anthracene | < 13.8 | 27.5 | U | ug/Kg dry | 5.29 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 9.17 | 18.3 | U | ug/Kg dry | 2.62 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Benzidine | < 734 | 3,060 | U | ug/Kg dry | 156 | 734 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 13.8 | 27.5 | U | ug/Kg dry | 4.60 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 36.7 | 73.4 | U | ug/Kg dry | 5.62 | 36.7 | 10/14/24 22:55 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-7-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:34
**Matrix:** Soil
**Lab ID:** O24J0276-08 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Benzo(b)fluoranthene** | **7.95** | 27.5 | J | ug/Kg dry | 7.36 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 18.3 | 36.7 | U | ug/Kg dry | 4.08 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 18.3 | 36.7 | U | ug/Kg dry | 4.48 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Benzoic acid | < 367 | 1,470 | U | ug/Kg dry | 91.2 | 367 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 13.8 | 27.5 | U | ug/Kg dry | 4.71 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 9.17 | 18.3 | U | ug/Kg dry | 4.01 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 367 | 459 | U | ug/Kg dry | 48.6 | 367 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 110 | 183 | U | ug/Kg dry | 31.0 | 110 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 27.5 | 55.0 | U | ug/Kg dry | 7.60 | 27.5 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Carbazole | < 9.17 | 18.3 | U | ug/Kg dry | 3.09 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Chrysene | < 9.17 | 18.3 | U | ug/Kg dry | 2.92 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 13.8 | 27.5 | U | ug/Kg dry | 11.1 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Dibenzofuran | < 13.8 | 27.5 | U | ug/Kg dry | 4.08 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 110 | 183 | U | ug/Kg dry | 31.7 | 110 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 9.17 | 18.3 | U | ug/Kg dry | 3.68 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 27.5 | 55.0 | U | ug/Kg dry | 10.2 | 27.5 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 18.3 | 27.5 | U | ug/Kg dry | 6.72 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| **Fluoranthene** | **11.9** | 27.5 | J | ug/Kg dry | 5.95 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Fluorene | < 9.17 | 18.3 | U | ug/Kg dry | 3.61 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 9.17 | 18.3 | U | ug/Kg dry | 3.53 | 9.17 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 18.3 | 36.7 | U | ug/Kg dry | 5.64 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 367 | 734 | U | ug/Kg dry | 69.0 | 367 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Hexachloroethane | < 18.3 | 36.7 | U | ug/Kg dry | 5.03 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 18.3 | 27.5 | U | ug/Kg dry | 7.27 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Isophorone | < 13.8 | 27.5 | U | ug/Kg dry | 3.51 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Naphthalene | < 18.3 | 27.5 | U | ug/Kg dry | 5.27 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Nitrobenzene | < 18.3 | 36.7 | U | ug/Kg dry | 4.76 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 18.3 | 36.7 | U | ug/Kg dry | 6.94 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 27.5 | 55.0 | U | ug/Kg dry | 8.60 | 27.5 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| N-Nitrosodiphenylamine | < 18.3 | 27.5 | U | ug/Kg dry | 6.36 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 18.3 | 27.5 | U | ug/Kg dry | 6.16 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 275 | 459 | U | ug/Kg dry | 49.4 | 275 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Phenanthrene | < 13.8 | 27.5 | U | ug/Kg dry | 4.76 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Phenol | < 18.3 | 36.7 | U | ug/Kg dry | 5.06 | 18.3 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| **Pyrene** | **11.0** | 27.5 | J | ug/Kg dry | 5.06 | 13.8 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| Pyridine | < 367 | 734 | U | ug/Kg dry | 45.9 | 367 | 10/14/24 22:55 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 71%* | *Limits: 35-115* | | *10/14/24 22:55* | *B24J0296* | *LP* | 1 |

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# Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-7-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:34
**Matrix:** Soil
**Lab ID:** O24J0276-08 (Continued)

## Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| *Surrogate: Phenol-d5* | | | | *Recovery: 79%* | *Limits: 33-122* | | *10/14/24 22:55* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 71%* | *Limits: 37-122* | | *10/14/24 22:55* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 69%* | *Limits: 44-115* | | *10/14/24 22:55* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 81%* | *Limits: 39-132* | | *10/14/24 22:55* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 78%* | *Limits: 54-127* | | *10/14/24 22:55* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.119 | 0.238 | U | mg/Kg dry | 0.0451 | 0.119 | 10/08/24 22:56 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.594 | 0.713 | U | mg/Kg dry | 0.259 | 0.594 | 10/08/24 22:56 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.713 | 0.950 | U | mg/Kg dry | 0.338 | 0.713 | 10/08/24 22:56 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.238 | 0.356 | U | mg/Kg dry | 0.0784 | 0.238 | 10/08/24 22:56 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.238 | 0.356 | U | mg/Kg dry | 0.0724 | 0.238 | 10/08/24 22:56 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.119 | 0.238 | U | mg/Kg dry | 0.0392 | 0.119 | 10/08/24 22:56 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.297 | 0.356 | U | mg/Kg dry | 0.139 | 0.297 | 10/08/24 22:56 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.119 | 0.356 | U | mg/Kg dry | 0.0321 | 0.119 | 10/08/24 22:56 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.238 | 0.356 | U | mg/Kg dry | 0.0653 | 0.238 | 10/08/24 22:56 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.713 | 0.950 | U | mg/Kg dry | 0.338 | 0.713 | 10/08/24 22:56 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 97%* | *Limits: 10-127* | | *10/08/24 22:56* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 70%* | *Limits: 44-130* | | *10/08/24 22:56* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.75 | 9.50 | U | ug/Kg dry | 1.80 | 4.75 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.38 | 4.75 | U | ug/Kg dry | 1.17 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.75 | 9.50 | U | ug/Kg dry | 2.33 | 4.75 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.38 | 4.75 | U | ug/Kg dry | 0.705 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.38 | 4.75 | U | ug/Kg dry | 1.05 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.38 | 4.75 | U | ug/Kg dry | 0.839 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.75 | 9.50 | U | ug/Kg dry | 1.33 | 4.75 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Chlordane | < 23.8 | 47.5 | U | ug/Kg dry | 11.5 | 23.8 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.38 | 4.75 | U | ug/Kg dry | 1.12 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.38 | 4.75 | U | ug/Kg dry | 0.739 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.38 | 4.75 | U | ug/Kg dry | 1.13 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.38 | 4.75 | U | ug/Kg dry | 1.08 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.75 | 9.50 | U | ug/Kg dry | 1.25 | 4.75 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Endrin | < 2.38 | 4.75 | U | ug/Kg dry | 0.856 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-7-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:34
**Matrix:** Soil
**Lab ID:** O24J0276-08 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| Endrin aldehyde | < 4.75 | 9.50 | U | ug/Kg dry | 1.38 | 4.75 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.75 | 9.50 | U | ug/Kg dry | 1.47 | 4.75 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.38 | 4.75 | U | ug/Kg dry | 1.01 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.75 | 9.50 | U | ug/Kg dry | 2.04 | 4.75 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.38 | 4.75 | U | ug/Kg dry | 1.16 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.38 | 4.75 | U | ug/Kg dry | 1.31 | 2.38 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.75 | 9.50 | U | ug/Kg dry | 2.29 | 4.75 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| Toxaphene | < 297 | 594 | U | ug/Kg dry | 200 | 297 | 10/17/24 21:53 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 89%* | *Limits: 23-110* | | *10/17/24 21:53* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 94%* | *Limits: 42-129* | | *10/17/24 21:53* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **11,200** | 73.1 | D | mg/Kg dry | 10.1 | 58.5 | 10/09/24 15:51 | B24J0437 | CS2 | 10 |
| Antimony | < 1.17 | 1.46 | U | mg/Kg dry | 0.585 | 1.17 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Arsenic** | **4.74** | 1.46 | | mg/Kg dry | 0.421 | 1.17 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Barium** | **87.5** | 1.46 | | mg/Kg dry | 0.228 | 0.585 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.368** | 0.146 | | mg/Kg dry | 0.0351 | 0.117 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.363** | 0.146 | | mg/Kg dry | 0.0292 | 0.0585 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Calcium** | **1,870** | 14.6 | B | mg/Kg dry | 5.85 | 11.7 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Chromium** | **15.1** | 1.46 | | mg/Kg dry | 0.403 | 1.17 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Cobalt** | **6.18** | 1.46 | | mg/Kg dry | 0.228 | 0.585 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Copper** | **12.0** | 1.46 | | mg/Kg dry | 0.345 | 1.17 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Iron** | **15,800** | 73.1 | D, B | mg/Kg dry | 35.1 | 70.2 | 10/09/24 15:51 | B24J0437 | CS2 | 10 |
| **Lead** | **38.3** | 1.46 | | mg/Kg dry | 0.351 | 1.17 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Magnesium** | **1,380** | 6.48 | | mg/Kg dry | 2.07 | 6.22 | 11/11/24 12:45 | B24K0386 | CS2 | 1 |
| **Manganese** | **126** | 1.46 | | mg/Kg dry | 0.246 | 0.585 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Nickel** | **13.3** | 1.46 | | mg/Kg dry | 0.257 | 0.585 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Potassium** | **1,020** | 14.9 | | mg/Kg dry | 9.23 | 14.3 | 11/15/24 16:06 | B24K0661 | CS2 | 1 |
| Selenium | < 1.17 | 1.46 | U, Q | mg/Kg dry | 0.421 | 1.17 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| Silver | < 1.17 | 1.46 | U | mg/Kg dry | 0.292 | 1.17 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Sodium** | **41.4** | 13.0 | | mg/Kg dry | 6.22 | 12.4 | 11/11/24 12:45 | B24K0386 | CS2 | 1 |
| Thallium | < 1.17 | 1.46 | U | mg/Kg dry | 0.561 | 1.17 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Vanadium** | **24.3** | 1.46 | | mg/Kg dry | 0.199 | 0.585 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |
| **Zinc** | **46.4** | 5.85 | | mg/Kg dry | 1.26 | 2.92 | 10/09/24 14:06 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-7-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:34
**Matrix:** Soil
**Lab ID:** O24J0276-08 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| **Mercury** | **0.0219** | 0.0567 | J | mg/Kg dry | 0.0170 | 0.0340 | 10/15/24 11:56 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **81.8** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-15-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:53
**Matrix:** Soil
**Lab ID:** O24J0276-09

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.838 | 1.68 | U | ug/Kg dry | 0.339 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.838 | 1.68 | U | ug/Kg dry | 0.343 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.838 | 1.68 | U | ug/Kg dry | 0.299 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.838 | 1.68 | U | ug/Kg dry | 0.368 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.68 | 3.35 | U | ug/Kg dry | 0.455 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethene | < 0.838 | 1.68 | U | ug/Kg dry | 0.363 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,1-Dichloropropene | < 8.38 | 16.8 | U | ug/Kg dry | 2.38 | 8.38 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 16.8 | 33.5 | U, Q | ug/Kg dry | 5.43 | 16.8 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 8.38 | 16.8 | U | ug/Kg dry | 3.21 | 8.38 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 16.8 | 33.5 | U | ug/Kg dry | 5.33 | 16.8 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 3.35 | 6.70 | U | ug/Kg dry | 0.903 | 3.35 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.35 | 6.70 | U | ug/Kg dry | 1.39 | 3.35 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.838 | 1.68 | U | ug/Kg dry | 0.228 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 4.19 | 8.38 | U | ug/Kg dry | 1.47 | 4.19 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.838 | 1.68 | U | ug/Kg dry | 0.344 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.838 | 1.68 | U | ug/Kg dry | 0.405 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.68 | 3.35 | U | ug/Kg dry | 0.837 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.68 | 3.35 | U | ug/Kg dry | 0.600 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.838 | 1.68 | U | ug/Kg dry | 0.375 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,4-Dioxane | < 33.5 | 67.0 | U, Q | ug/Kg dry | 12.8 | 33.5 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1-Propanol | < 83.8 | 168 | U | ug/Kg dry | 26.6 | 83.8 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.838 | 1.68 | U | ug/Kg dry | 0.277 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 2-Butanone | < 11.7 | 23.5 | U | ug/Kg dry | 5.71 | 11.7 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 41.9 | 83.8 | U | ug/Kg dry | 16.8 | 41.9 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 2-Chlorotoluene | < 1.68 | 3.35 | U | ug/Kg dry | 0.735 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 2-Hexanone | < 11.7 | 23.5 | U | ug/Kg dry | 4.45 | 11.7 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 4-Chlorotoluene | < 1.68 | 3.35 | U | ug/Kg dry | 0.734 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 4-Isopropyltoluene | < 3.35 | 6.70 | U | ug/Kg dry | 0.982 | 3.35 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 11.7 | 23.5 | U | ug/Kg dry | 3.42 | 11.7 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Acetone | < 29.3 | 58.6 | U | ug/Kg dry | 10.1 | 29.3 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Acetonitrile | < 83.8 | 168 | U | ug/Kg dry | 26.1 | 83.8 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Acrolein | < 16.8 | 33.5 | U | ug/Kg dry | 7.03 | 16.8 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Acrylonitrile | < 1.68 | 3.35 | U | ug/Kg dry | 0.821 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Benzene | < 0.838 | 1.68 | U | ug/Kg dry | 0.241 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Bromobenzene | < 1.68 | 3.35 | U | ug/Kg dry | 0.471 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Bromochloromethane | < 1.68 | 3.35 | U | ug/Kg dry | 0.588 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Bromodichloromethane | < 0.838 | 1.68 | U | ug/Kg dry | 0.403 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-15-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:53
**Matrix:** Soil
**Lab ID:** O24J0276-09 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | < 1.68 | 3.35 | U | ug/Kg dry | 0.528 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Bromomethane | < 8.38 | 16.8 | U, Q | ug/Kg dry | 2.01 | 8.38 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Carbon disulfide | < 1.68 | 3.35 | U | ug/Kg dry | 0.504 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Carbon tetrachloride | < 8.38 | 16.8 | U | ug/Kg dry | 2.34 | 8.38 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Chlorobenzene | < 1.68 | 3.35 | U | ug/Kg dry | 0.436 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Chloroethane | < 3.35 | 6.70 | U | ug/Kg dry | 1.18 | 3.35 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Chloroform | < 1.68 | 3.35 | U | ug/Kg dry | 0.613 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Chloromethane | < 3.35 | 6.70 | U | ug/Kg dry | 1.22 | 3.35 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| cis-1,2-Dichloroethene | < 1.68 | 3.35 | U | ug/Kg dry | 0.478 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 1.68 | 3.35 | U | ug/Kg dry | 0.580 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Cyclohexane | < 4.19 | 8.38 | U | ug/Kg dry | 1.29 | 4.19 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Dibromochloromethane | < 0.838 | 1.68 | U | ug/Kg dry | 0.398 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Dibromomethane | < 0.838 | 1.68 | U | ug/Kg dry | 0.306 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Dichlorodifluoromethane | < 4.19 | 8.38 | U | ug/Kg dry | 1.01 | 4.19 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Ethylbenzene | < 3.35 | 6.70 | U | ug/Kg dry | 0.867 | 3.35 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Isobutanol | < 33.5 | 67.0 | U | ug/Kg dry | 8.91 | 33.5 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Isopropanol | < 33.5 | 67.0 | U | ug/Kg dry | 14.5 | 33.5 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Isopropylbenzene | < 1.68 | 3.35 | U | ug/Kg dry | 0.832 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| m,p-Xylene | < 3.35 | 6.70 | U | ug/Kg dry | 1.36 | 3.35 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.838 | 1.68 | U | ug/Kg dry | 0.280 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Methylene chloride | < 8.38 | 16.8 | U | ug/Kg dry | 3.29 | 8.38 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| n-Butylbenzene | < 8.38 | 16.8 | U, Q | ug/Kg dry | 2.40 | 8.38 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| n-Propylbenzene | < 1.68 | 3.35 | U | ug/Kg dry | 0.802 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Naphthalene | < 16.8 | 33.5 | U, Q | ug/Kg dry | 8.32 | 16.8 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| o-Xylene | < 3.35 | 6.70 | U | ug/Kg dry | 0.856 | 3.35 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| sec-Butylbenzene | < 1.68 | 3.35 | U, Q | ug/Kg dry | 0.822 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Styrene | < 3.35 | 6.70 | U | ug/Kg dry | 0.919 | 3.35 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| tert-Butylbenzene | < 1.68 | 3.35 | U | ug/Kg dry | 0.318 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Tetrachloroethene | < 1.68 | 3.35 | U | ug/Kg dry | 0.489 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Tetrahydrofuran | < 4.19 | 8.38 | U | ug/Kg dry | 1.21 | 4.19 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Toluene | < 0.838 | 1.68 | U | ug/Kg dry | 0.303 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 1.68 | 3.35 | U | ug/Kg dry | 0.775 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.68 | 3.35 | U | ug/Kg dry | 0.686 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Trichloroethene | < 0.838 | 1.68 | U | ug/Kg dry | 0.407 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Trichlorofluoromethane | < 0.838 | 1.68 | U | ug/Kg dry | 0.347 | 0.838 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Vinyl acetate | < 1.68 | 3.35 | U, Q | ug/Kg dry | 0.427 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| Vinyl chloride | < 1.68 | 3.35 | U | ug/Kg dry | 0.599 | 1.68 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-15-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:53
**Matrix:** Soil
**Lab ID:** O24J0276-09 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Xylenes, Total | < 5.03 | 10.1 | U | ug/Kg dry | 2.15 | 5.03 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethene, Total | < 3.35 | 6.70 | U | ug/Kg dry | 1.09 | 3.35 | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 107%* | *Limits: 78-119* | | *10/08/24 15:45* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 105%* | *Limits: 71-136* | | *10/08/24 15:45* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 99%* | *Limits: 81-114* | | *10/08/24 15:45* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 97%* | *Limits: 85-116* | | *10/08/24 15:45* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 103%* | *Limits: 79-119* | | *10/08/24 15:45* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 103%* | *Limits: 78-121* | | *10/08/24 15:45* | *B24J0623* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| No TICs found | | | | ug/Kg | | | 10/08/24 15:45 | B24J0623 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| 1-Methylnaphthalene | < 9.34 | 18.7 | U | ug/Kg dry | 2.98 | 9.34 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 9.34 | 18.7 | U | ug/Kg dry | 3.17 | 9.34 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Acenaphthene | < 9.34 | 18.7 | U | ug/Kg dry | 3.41 | 9.34 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 11.7 | 18.7 | U | ug/Kg dry | 5.07 | 11.7 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Anthracene | < 11.7 | 18.7 | U | ug/Kg dry | 4.76 | 11.7 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Benzo(a)anthracene | < 9.34 | 18.7 | U | ug/Kg dry | 3.73 | 9.34 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Benzo(a)pyrene | < 9.34 | 18.7 | U | ug/Kg dry | 2.84 | 9.34 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 11.7 | 18.7 | U | ug/Kg dry | 6.01 | 11.7 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 11.7 | 18.7 | U | ug/Kg dry | 5.82 | 11.7 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 11.7 | 18.7 | U | ug/Kg dry | 4.87 | 11.7 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Chrysene | < 9.34 | 18.7 | U | ug/Kg dry | 3.92 | 9.34 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 11.7 | 18.7 | U | ug/Kg dry | 4.71 | 11.7 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Fluoranthene | < 11.7 | 18.7 | U | ug/Kg dry | 5.81 | 11.7 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Fluorene | < 9.34 | 18.7 | U | ug/Kg dry | 4.45 | 9.34 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Indeno(1,2,3-cd)pyrene | < 11.7 | 18.7 | U | ug/Kg dry | 4.74 | 11.7 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Naphthalene | < 11.7 | 18.7 | U | ug/Kg dry | 5.60 | 11.7 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Phenanthrene | < 9.34 | 18.7 | U | ug/Kg dry | 4.58 | 9.34 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| Pyrene | < 11.7 | 18.7 | U | ug/Kg dry | 2.56 | 11.7 | 10/11/24 17:42 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 90%* | *Limits: 57-119* | | *10/11/24 17:42* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 81%* | *Limits: 54-133* | | *10/11/24 17:42* | *B24J0527* | *MS5* | 1 |
| **Method: SW8270E / SW3550** | | | | | | | | | | |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-15-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:53
**Matrix:** Soil
**Lab ID:** O24J0276-09 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 17.9 | 26.9 | U | ug/Kg dry | 5.07 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 17.9 | 26.9 | U | ug/Kg dry | 4.67 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 13.5 | 26.9 | U | ug/Kg dry | 4.45 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 17.9 | 26.9 | U | ug/Kg dry | 4.26 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 13.5 | 26.9 | U | ug/Kg dry | 5.05 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 8.97 | 17.9 | U | ug/Kg dry | 3.19 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 8.97 | 17.9 | U | ug/Kg dry | 5.94 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 8.97 | 17.9 | U | ug/Kg dry | 2.87 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 26.9 | 53.8 | U | ug/Kg dry | 3.70 | 26.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 269 | 449 | U | ug/Kg dry | 61.0 | 269 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 17.9 | 26.9 | U | ug/Kg dry | 5.92 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 8.97 | 17.9 | U | ug/Kg dry | 2.83 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 8.97 | 17.9 | U | ug/Kg dry | 3.19 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 8.97 | 17.9 | U | ug/Kg dry | 3.81 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 8.97 | 17.9 | U | ug/Kg dry | 4.01 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 13.5 | 26.9 | U | ug/Kg dry | 4.37 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.49 | 8.97 | U | ug/Kg dry | 2.06 | 4.49 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2-Nitroaniline | < 17.9 | 26.9 | U | ug/Kg dry | 5.46 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 17.9 | 26.9 | U | ug/Kg dry | 7.53 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 53.8 | 108 | U | ug/Kg dry | 17.1 | 53.8 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 17.9 | 35.9 | U | ug/Kg dry | 7.00 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 17.9 | 26.9 | U | ug/Kg dry | 9.55 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 359 | 718 | U | ug/Kg dry | 106 | 359 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 13.5 | 26.9 | U | ug/Kg dry | 4.75 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 8.97 | 17.9 | U | ug/Kg dry | 2.46 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 13.5 | 26.9 | U | ug/Kg dry | 4.31 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 13.5 | 26.9 | U | ug/Kg dry | 4.55 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 17.9 | 35.9 | U | ug/Kg dry | 3.56 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 359 | 718 | U | ug/Kg dry | 119 | 359 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Acenaphthene | < 8.97 | 17.9 | U | ug/Kg dry | 3.60 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Acenaphthylene | < 8.97 | 17.9 | U | ug/Kg dry | 4.05 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Aniline | < 108 | 179 | U | ug/Kg dry | 6.34 | 108 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Anthracene | < 13.5 | 26.9 | U | ug/Kg dry | 5.18 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 8.97 | 17.9 | U | ug/Kg dry | 2.57 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Benzidine | < 718 | 2,990 | U | ug/Kg dry | 152 | 718 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 13.5 | 26.9 | U | ug/Kg dry | 4.50 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 35.9 | 71.8 | U | ug/Kg dry | 5.50 | 35.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-15-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:53
**Matrix:** Soil
**Lab ID:** O24J0276-09 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzo(b)fluoranthene | < 17.9 | 26.9 | U | ug/Kg dry | 7.20 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 17.9 | 35.9 | U | ug/Kg dry | 3.99 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 17.9 | 35.9 | U | ug/Kg dry | 4.38 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Benzoic acid | < 359 | 1,440 | U | ug/Kg dry | 89.2 | 359 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 13.5 | 26.9 | U | ug/Kg dry | 4.61 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 8.97 | 17.9 | U | ug/Kg dry | 3.93 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 359 | 449 | U | ug/Kg dry | 47.6 | 359 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 108 | 179 | U | ug/Kg dry | 30.4 | 108 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 26.9 | 53.8 | U | ug/Kg dry | 7.43 | 26.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Carbazole | < 8.97 | 17.9 | U | ug/Kg dry | 3.02 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Chrysene | < 8.97 | 17.9 | U | ug/Kg dry | 2.86 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 13.5 | 26.9 | U | ug/Kg dry | 10.9 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Dibenzofuran | < 13.5 | 26.9 | U | ug/Kg dry | 3.99 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 108 | 179 | U | ug/Kg dry | 31.0 | 108 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 8.97 | 17.9 | U | ug/Kg dry | 3.60 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 26.9 | 53.8 | U | ug/Kg dry | 9.98 | 26.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 17.9 | 26.9 | U | ug/Kg dry | 6.58 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Fluoranthene | < 17.9 | 26.9 | U | ug/Kg dry | 5.82 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Fluorene | < 8.97 | 17.9 | U | ug/Kg dry | 3.53 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 8.97 | 17.9 | U | ug/Kg dry | 3.45 | 8.97 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 17.9 | 35.9 | U | ug/Kg dry | 5.52 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 359 | 718 | U | ug/Kg dry | 67.5 | 359 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Hexachloroethane | < 17.9 | 35.9 | U | ug/Kg dry | 4.92 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 17.9 | 26.9 | U | ug/Kg dry | 7.11 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Isophorone | < 13.5 | 26.9 | U | ug/Kg dry | 3.43 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Naphthalene | < 17.9 | 26.9 | U | ug/Kg dry | 5.16 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Nitrobenzene | < 17.9 | 35.9 | U | ug/Kg dry | 4.65 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 17.9 | 35.9 | U | ug/Kg dry | 6.79 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 26.9 | 53.8 | U | ug/Kg dry | 8.42 | 26.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| N-Nitrosodiphenylamine | < 17.9 | 26.9 | U | ug/Kg dry | 6.22 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 17.9 | 26.9 | U | ug/Kg dry | 6.03 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 269 | 449 | U | ug/Kg dry | 48.3 | 269 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Phenanthrene | < 13.5 | 26.9 | U | ug/Kg dry | 4.65 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Phenol | < 17.9 | 35.9 | U | ug/Kg dry | 4.95 | 17.9 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Pyrene | < 13.5 | 26.9 | U | ug/Kg dry | 4.95 | 13.5 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| Pyridine | < 359 | 718 | U | ug/Kg dry | 44.9 | 359 | 10/14/24 23:16 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 64%* | *Limits: 35-115* | | *10/14/24 23:16* | *B24J0296* | *LP* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-15-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:53
**Matrix:** Soil
**Lab ID:** O24J0276-09 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| *Surrogate: Phenol-d5* | | | | *Recovery: 70%* | *Limits: 33-122* | | *10/14/24 23:16* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 63%* | *Limits: 37-122* | | *10/14/24 23:16* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 64%* | *Limits: 44-115* | | *10/14/24 23:16* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 71%* | *Limits: 39-132* | | *10/14/24 23:16* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 71%* | *Limits: 54-127* | | *10/14/24 23:16* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.117 | 0.233 | U | mg/Kg dry | 0.0444 | 0.117 | 10/08/24 23:13 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.584 | 0.700 | U | mg/Kg dry | 0.254 | 0.584 | 10/08/24 23:13 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.700 | 0.934 | U | mg/Kg dry | 0.333 | 0.700 | 10/08/24 23:13 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.233 | 0.350 | U | mg/Kg dry | 0.0770 | 0.233 | 10/08/24 23:13 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.233 | 0.350 | U | mg/Kg dry | 0.0712 | 0.233 | 10/08/24 23:13 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.117 | 0.233 | U | mg/Kg dry | 0.0385 | 0.117 | 10/08/24 23:13 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.292 | 0.350 | U | mg/Kg dry | 0.137 | 0.292 | 10/08/24 23:13 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.117 | 0.350 | U | mg/Kg dry | 0.0315 | 0.117 | 10/08/24 23:13 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.233 | 0.350 | U | mg/Kg dry | 0.0642 | 0.233 | 10/08/24 23:13 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.700 | 0.934 | U | mg/Kg dry | 0.333 | 0.700 | 10/08/24 23:13 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 90%* | *Limits: 10-127* | | *10/08/24 23:13* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 73%* | *Limits: 44-130* | | *10/08/24 23:13* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.67 | 9.34 | U | ug/Kg dry | 1.77 | 4.67 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.33 | 4.67 | U | ug/Kg dry | 1.15 | 2.33 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.67 | 9.34 | U | ug/Kg dry | 2.29 | 4.67 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.33 | 4.67 | U | ug/Kg dry | 0.693 | 2.33 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.33 | 4.67 | U | ug/Kg dry | 1.03 | 2.33 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.33 | 4.67 | U | ug/Kg dry | 0.825 | 2.33 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.67 | 9.34 | U | ug/Kg dry | 1.30 | 4.67 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| Chlordane | < 23.3 | 46.7 | U | ug/Kg dry | 11.3 | 23.3 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.33 | 4.67 | U | ug/Kg dry | 1.10 | 2.33 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.33 | 4.67 | U | ug/Kg dry | 0.726 | 2.33 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.33 | 4.67 | U | ug/Kg dry | 1.12 | 2.33 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.33 | 4.67 | U | ug/Kg dry | 1.06 | 2.33 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.67 | 9.34 | U | ug/Kg dry | 1.23 | 4.67 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| Endrin | < 2.33 | 4.67 | U | ug/Kg dry | 0.841 | 2.33 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-15-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:53
**Matrix:** Soil
**Lab ID:** O24J0276-09 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| Endrin aldehyde | < 4.67 | 9.34 | U | ug/Kg dry | 1.36 | 4.67 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.67 | 9.34 | U | ug/Kg dry | 1.44 | 4.67 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.33 | 4.67 | U | ug/Kg dry | 0.992 | 2.33 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.67 | 9.34 | U | ug/Kg dry | 2.00 | 4.67 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.33 | 4.67 | U | ug/Kg dry | 1.14 | 2.33 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.33 | 4.67 | U | ug/Kg dry | 1.28 | 2.33 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.67 | 9.34 | U | ug/Kg dry | 2.25 | 4.67 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| Toxaphene | < 292 | 584 | U | ug/Kg dry | 197 | 292 | 10/17/24 22:10 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 91%* | *Limits: 23-110* | | *10/17/24 22:10* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 93%* | *Limits: 42-129* | | *10/17/24 22:26* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **12,600** | 68.4 | D | mg/Kg dry | 9.46 | 54.7 | 10/09/24 16:03 | B24J0437 | CS2 | 10 |
| Antimony | < 1.09 | 1.37 | U | mg/Kg dry | 0.547 | 1.09 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Arsenic** | **0.626** | 1.37 | J | mg/Kg dry | 0.394 | 1.09 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Barium** | **107** | 1.37 | | mg/Kg dry | 0.213 | 0.547 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.533** | 0.137 | | mg/Kg dry | 0.0328 | 0.109 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.487** | 0.137 | | mg/Kg dry | 0.0273 | 0.0547 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Calcium** | **1,900** | 13.7 | B | mg/Kg dry | 5.47 | 10.9 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Chromium** | **37.7** | 1.37 | | mg/Kg dry | 0.377 | 1.09 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Cobalt** | **3.17** | 1.37 | | mg/Kg dry | 0.213 | 0.547 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Copper** | **7.09** | 1.37 | | mg/Kg dry | 0.323 | 1.09 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Iron** | **19,400** | 68.4 | D, B | mg/Kg dry | 32.8 | 65.6 | 10/09/24 16:03 | B24J0437 | CS2 | 10 |
| **Lead** | **32.2** | 1.37 | | mg/Kg dry | 0.328 | 1.09 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Magnesium** | **1,380** | 6.44 | | mg/Kg dry | 2.06 | 6.18 | 11/11/24 12:50 | B24K0386 | CS2 | 1 |
| **Manganese** | **319** | 1.37 | | mg/Kg dry | 0.230 | 0.547 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Nickel** | **13.0** | 1.37 | | mg/Kg dry | 0.241 | 0.547 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Potassium** | **554** | 13.5 | | mg/Kg dry | 8.34 | 12.9 | 11/15/24 16:10 | B24K0661 | CS2 | 1 |
| Selenium | < 1.09 | 1.37 | U, Q | mg/Kg dry | 0.394 | 1.09 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| Silver | < 1.09 | 1.37 | U | mg/Kg dry | 0.273 | 1.09 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Sodium** | **55.6** | 12.9 | | mg/Kg dry | 6.18 | 12.4 | 11/11/24 12:50 | B24K0386 | CS2 | 1 |
| Thallium | < 1.09 | 1.37 | U | mg/Kg dry | 0.525 | 1.09 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Vanadium** | **32.0** | 1.37 | | mg/Kg dry | 0.186 | 0.547 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |
| **Zinc** | **30.0** | 5.47 | | mg/Kg dry | 1.18 | 2.73 | 10/09/24 14:10 | B24J0437 | CS2 | 1 |

sterling labs - O'Hare Location
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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-15-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:53
**Matrix:** Soil
**Lab ID:** O24J0276-09 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| **Mercury** | **0.0211** | 0.0516 | J | mg/Kg dry | 0.0155 | 0.0310 | 10/15/24 11:59 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **82.6** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 12:18
**Matrix:** Soil
**Lab ID:** O24J0276-10

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.764 | 1.53 | U | ug/Kg dry | 0.309 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.764 | 1.53 | U | ug/Kg dry | 0.313 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.764 | 1.53 | U | ug/Kg dry | 0.272 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.764 | 1.53 | U | ug/Kg dry | 0.335 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.53 | 3.06 | U | ug/Kg dry | 0.415 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethene | < 0.764 | 1.53 | U | ug/Kg dry | 0.331 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,1-Dichloropropene | < 7.64 | 15.3 | U | ug/Kg dry | 2.17 | 7.64 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 15.3 | 30.6 | U, Q | ug/Kg dry | 4.95 | 15.3 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 7.64 | 15.3 | U | ug/Kg dry | 2.93 | 7.64 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 15.3 | 30.6 | U | ug/Kg dry | 4.86 | 15.3 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 3.06 | 6.11 | U | ug/Kg dry | 0.823 | 3.06 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.06 | 6.11 | U | ug/Kg dry | 1.27 | 3.06 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.764 | 1.53 | U | ug/Kg dry | 0.208 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 3.82 | 7.64 | U | ug/Kg dry | 1.34 | 3.82 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.764 | 1.53 | U | ug/Kg dry | 0.314 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.764 | 1.53 | U | ug/Kg dry | 0.369 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.53 | 3.06 | U | ug/Kg dry | 0.764 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.53 | 3.06 | U | ug/Kg dry | 0.548 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.764 | 1.53 | U | ug/Kg dry | 0.342 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,4-Dioxane | < 30.6 | 61.1 | U, Q | ug/Kg dry | 11.7 | 30.6 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 3.82 | 7.64 | U | ug/Kg dry | 1.40 | 3.82 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1-Propanol | < 76.4 | 153 | U | ug/Kg dry | 24.3 | 76.4 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.764 | 1.53 | U | ug/Kg dry | 0.253 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 2-Butanone | < 10.7 | 21.4 | U | ug/Kg dry | 5.20 | 10.7 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 38.2 | 76.4 | U | ug/Kg dry | 15.3 | 38.2 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 2-Chlorotoluene | < 1.53 | 3.06 | U | ug/Kg dry | 0.670 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 2-Hexanone | < 10.7 | 21.4 | U | ug/Kg dry | 4.06 | 10.7 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 4-Chlorotoluene | < 1.53 | 3.06 | U | ug/Kg dry | 0.670 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 4-Isopropyltoluene | < 3.06 | 6.11 | U | ug/Kg dry | 0.895 | 3.06 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 10.7 | 21.4 | U | ug/Kg dry | 3.12 | 10.7 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Acetone | < 26.7 | 53.5 | U | ug/Kg dry | 9.25 | 26.7 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Acetonitrile | < 76.4 | 153 | U | ug/Kg dry | 23.8 | 76.4 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Acrolein | < 15.3 | 30.6 | U | ug/Kg dry | 6.41 | 15.3 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Acrylonitrile | < 1.53 | 3.06 | U | ug/Kg dry | 0.749 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Benzene | < 0.764 | 1.53 | U | ug/Kg dry | 0.220 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Bromobenzene | < 1.53 | 3.06 | U | ug/Kg dry | 0.430 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Bromochloromethane | < 1.53 | 3.06 | U | ug/Kg dry | 0.536 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 12:18
**Matrix:** Soil
**Lab ID:** O24J0276-10 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.764 | 1.53 | U | ug/Kg dry | 0.368 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Bromoform | < 1.53 | 3.06 | U | ug/Kg dry | 0.481 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Bromomethane | < 7.64 | 15.3 | U, Q | ug/Kg dry | 1.84 | 7.64 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| **Carbon disulfide** | **1.57** | 3.06 | J | ug/Kg dry | 0.460 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Carbon tetrachloride | < 7.64 | 15.3 | U | ug/Kg dry | 2.13 | 7.64 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Chlorobenzene | < 1.53 | 3.06 | U | ug/Kg dry | 0.397 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Chloroethane | < 3.06 | 6.11 | U | ug/Kg dry | 1.08 | 3.06 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Chloroform | < 1.53 | 3.06 | U | ug/Kg dry | 0.559 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Chloromethane | < 3.06 | 6.11 | U | ug/Kg dry | 1.12 | 3.06 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| cis-1,2-Dichloroethene | < 1.53 | 3.06 | U | ug/Kg dry | 0.436 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 1.53 | 3.06 | U | ug/Kg dry | 0.529 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Cyclohexane | < 3.82 | 7.64 | U | ug/Kg dry | 1.18 | 3.82 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Dibromochloromethane | < 0.764 | 1.53 | U | ug/Kg dry | 0.363 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Dibromomethane | < 0.764 | 1.53 | U | ug/Kg dry | 0.280 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Dichlorodifluoromethane | < 3.82 | 7.64 | U | ug/Kg dry | 0.925 | 3.82 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Ethylbenzene | < 3.06 | 6.11 | U | ug/Kg dry | 0.791 | 3.06 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Isobutanol | < 30.6 | 61.1 | U | ug/Kg dry | 8.13 | 30.6 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Isopropanol | < 30.6 | 61.1 | U | ug/Kg dry | 13.2 | 30.6 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Isopropylbenzene | < 1.53 | 3.06 | U | ug/Kg dry | 0.759 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| m,p-Xylene | < 3.06 | 6.11 | U | ug/Kg dry | 1.24 | 3.06 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.764 | 1.53 | U | ug/Kg dry | 0.256 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Methylene chloride | < 7.64 | 15.3 | U | ug/Kg dry | 3.00 | 7.64 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| n-Butylbenzene | < 7.64 | 15.3 | U, Q | ug/Kg dry | 2.19 | 7.64 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| n-Propylbenzene | < 1.53 | 3.06 | U | ug/Kg dry | 0.731 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Naphthalene | < 15.3 | 30.6 | U, Q | ug/Kg dry | 7.59 | 15.3 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| o-Xylene | < 3.06 | 6.11 | U | ug/Kg dry | 0.781 | 3.06 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| sec-Butylbenzene | < 1.53 | 3.06 | U, Q | ug/Kg dry | 0.750 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Styrene | < 3.06 | 6.11 | U | ug/Kg dry | 0.838 | 3.06 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| tert-Butylbenzene | < 1.53 | 3.06 | U | ug/Kg dry | 0.290 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Tetrachloroethene | < 1.53 | 3.06 | U | ug/Kg dry | 0.446 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Tetrahydrofuran | < 3.82 | 7.64 | U | ug/Kg dry | 1.10 | 3.82 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Toluene | < 0.764 | 1.53 | U | ug/Kg dry | 0.276 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 1.53 | 3.06 | U | ug/Kg dry | 0.707 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.53 | 3.06 | U | ug/Kg dry | 0.625 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Trichloroethene | < 0.764 | 1.53 | U | ug/Kg dry | 0.371 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Trichlorofluoromethane | < 0.764 | 1.53 | U | ug/Kg dry | 0.317 | 0.764 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Vinyl acetate | < 1.53 | 3.06 | U, Q | ug/Kg dry | 0.390 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 12:18
**Matrix:** Soil
**Lab ID:** O24J0276-10 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 1.53 | 3.06 | U | ug/Kg dry | 0.546 | 1.53 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| Xylenes, Total | < 4.59 | 9.17 | U | ug/Kg dry | 1.96 | 4.59 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethene, Total | < 3.06 | 6.11 | U | ug/Kg dry | 0.999 | 3.06 | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 102%* | *Limits: 78-119* | | *10/08/24 16:14* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 100%* | *Limits: 71-136* | | *10/08/24 16:14* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 103%* | *Limits: 81-114* | | *10/08/24 16:14* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 99%* | *Limits: 85-116* | | *10/08/24 16:14* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 101%* | *Limits: 79-119* | | *10/08/24 16:14* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 100%* | *Limits: 78-121* | | *10/08/24 16:14* | *B24J0623* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| No TICs found | | | | ug/Kg | | | 10/08/24 16:14 | B24J0623 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| 1-Methylnaphthalene | < 8.49 | 17.0 | U | ug/Kg dry | 2.71 | 8.49 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 8.49 | 17.0 | U | ug/Kg dry | 2.88 | 8.49 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Acenaphthene | < 8.49 | 17.0 | U | ug/Kg dry | 3.10 | 8.49 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 10.6 | 17.0 | U | ug/Kg dry | 4.61 | 10.6 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Anthracene | < 10.6 | 17.0 | U | ug/Kg dry | 4.33 | 10.6 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Benzo(a)anthracene | < 8.49 | 17.0 | U | ug/Kg dry | 3.39 | 8.49 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Benzo(a)pyrene | < 8.49 | 17.0 | U | ug/Kg dry | 2.59 | 8.49 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 10.6 | 17.0 | U | ug/Kg dry | 5.47 | 10.6 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 10.6 | 17.0 | U | ug/Kg dry | 5.30 | 10.6 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 10.6 | 17.0 | U | ug/Kg dry | 4.43 | 10.6 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Chrysene | < 8.49 | 17.0 | U | ug/Kg dry | 3.57 | 8.49 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 10.6 | 17.0 | U | ug/Kg dry | 4.29 | 10.6 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Fluoranthene | < 10.6 | 17.0 | U | ug/Kg dry | 5.28 | 10.6 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Fluorene | < 8.49 | 17.0 | U | ug/Kg dry | 4.05 | 8.49 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Indeno(1,2,3-cd)pyrene | < 10.6 | 17.0 | U | ug/Kg dry | 4.32 | 10.6 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Naphthalene | < 10.6 | 17.0 | U | ug/Kg dry | 5.09 | 10.6 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Phenanthrene | < 8.49 | 17.0 | U | ug/Kg dry | 4.17 | 8.49 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| Pyrene | < 10.6 | 17.0 | U | ug/Kg dry | 2.32 | 10.6 | 10/11/24 18:03 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 89%* | *Limits: 57-119* | | *10/11/24 18:03* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 77%* | *Limits: 54-133* | | *10/11/24 18:03* | *B24J0527* | *MS5* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 12:18
**Matrix:** Soil
**Lab ID:** O24J0276-10 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 17.0 | 25.5 | U | ug/Kg dry | 4.80 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 17.0 | 25.5 | U | ug/Kg dry | 4.42 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 12.7 | 25.5 | U | ug/Kg dry | 4.21 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 17.0 | 25.5 | U | ug/Kg dry | 4.04 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 12.7 | 25.5 | U | ug/Kg dry | 4.78 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 8.49 | 17.0 | U | ug/Kg dry | 3.02 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 8.49 | 17.0 | U | ug/Kg dry | 5.62 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 8.49 | 17.0 | U | ug/Kg dry | 2.72 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 25.5 | 51.0 | U | ug/Kg dry | 3.50 | 25.5 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 255 | 425 | U | ug/Kg dry | 57.7 | 255 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 17.0 | 25.5 | U | ug/Kg dry | 5.60 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 8.49 | 17.0 | U | ug/Kg dry | 2.68 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 8.49 | 17.0 | U | ug/Kg dry | 3.02 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 8.49 | 17.0 | U | ug/Kg dry | 3.61 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 8.49 | 17.0 | U | ug/Kg dry | 3.79 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 12.7 | 25.5 | U | ug/Kg dry | 4.14 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.25 | 8.49 | U | ug/Kg dry | 1.95 | 4.25 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2-Nitroaniline | < 17.0 | 25.5 | U | ug/Kg dry | 5.17 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 17.0 | 25.5 | U | ug/Kg dry | 7.12 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 51.0 | 102 | U | ug/Kg dry | 16.2 | 51.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 17.0 | 34.0 | U | ug/Kg dry | 6.63 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 17.0 | 25.5 | U | ug/Kg dry | 9.04 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 340 | 679 | U | ug/Kg dry | 100 | 340 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 12.7 | 25.5 | U | ug/Kg dry | 4.50 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 8.49 | 17.0 | U | ug/Kg dry | 2.33 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 12.7 | 25.5 | U | ug/Kg dry | 4.08 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 12.7 | 25.5 | U | ug/Kg dry | 4.31 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 17.0 | 34.0 | U | ug/Kg dry | 3.37 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 340 | 679 | U | ug/Kg dry | 113 | 340 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Acenaphthene | < 8.49 | 17.0 | U | ug/Kg dry | 3.41 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Acenaphthylene | < 8.49 | 17.0 | U | ug/Kg dry | 3.83 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Aniline | < 102 | 170 | U | ug/Kg dry | 6.01 | 102 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Anthracene | < 12.7 | 25.5 | U | ug/Kg dry | 4.90 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 8.49 | 17.0 | U | ug/Kg dry | 2.43 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Benzidine | < 679 | 2,830 | U | ug/Kg dry | 144 | 679 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 12.7 | 25.5 | U | ug/Kg dry | 4.26 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 34.0 | 67.9 | U | ug/Kg dry | 5.21 | 34.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 12:18
**Matrix:** Soil
**Lab ID:** O24J0276-10 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzo(b)fluoranthene | < 17.0 | 25.5 | U | ug/Kg dry | 6.82 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 17.0 | 34.0 | U | ug/Kg dry | 3.77 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 17.0 | 34.0 | U | ug/Kg dry | 4.15 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Benzoic acid | < 340 | 1,360 | U | ug/Kg dry | 84.4 | 340 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 12.7 | 25.5 | U | ug/Kg dry | 4.36 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 8.49 | 17.0 | U | ug/Kg dry | 3.72 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 340 | 425 | U | ug/Kg dry | 45.0 | 340 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 102 | 170 | U | ug/Kg dry | 28.8 | 102 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 25.5 | 51.0 | U | ug/Kg dry | 7.04 | 25.5 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Carbazole | < 8.49 | 17.0 | U | ug/Kg dry | 2.86 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Chrysene | < 8.49 | 17.0 | U | ug/Kg dry | 2.70 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 12.7 | 25.5 | U | ug/Kg dry | 10.3 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Dibenzofuran | < 12.7 | 25.5 | U | ug/Kg dry | 3.78 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 102 | 170 | U | ug/Kg dry | 29.3 | 102 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 8.49 | 17.0 | U | ug/Kg dry | 3.41 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 25.5 | 51.0 | U | ug/Kg dry | 9.45 | 25.5 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 17.0 | 25.5 | U | ug/Kg dry | 6.22 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Fluoranthene | < 17.0 | 25.5 | U | ug/Kg dry | 5.51 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Fluorene | < 8.49 | 17.0 | U | ug/Kg dry | 3.34 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 8.49 | 17.0 | U | ug/Kg dry | 3.27 | 8.49 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 17.0 | 34.0 | U | ug/Kg dry | 5.23 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 340 | 679 | U | ug/Kg dry | 63.9 | 340 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Hexachloroethane | < 17.0 | 34.0 | U | ug/Kg dry | 4.66 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 17.0 | 25.5 | U | ug/Kg dry | 6.73 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Isophorone | < 12.7 | 25.5 | U | ug/Kg dry | 3.25 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Naphthalene | < 17.0 | 25.5 | U | ug/Kg dry | 4.88 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Nitrobenzene | < 17.0 | 34.0 | U | ug/Kg dry | 4.41 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 17.0 | 34.0 | U | ug/Kg dry | 6.43 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 25.5 | 51.0 | U | ug/Kg dry | 7.97 | 25.5 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| N-Nitrosodiphenylamine | < 17.0 | 25.5 | U | ug/Kg dry | 5.89 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 17.0 | 25.5 | U | ug/Kg dry | 5.71 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 255 | 425 | U | ug/Kg dry | 45.7 | 255 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Phenanthrene | < 12.7 | 25.5 | U | ug/Kg dry | 4.41 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Phenol | < 17.0 | 34.0 | U | ug/Kg dry | 4.69 | 17.0 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Pyrene | < 12.7 | 25.5 | U | ug/Kg dry | 4.68 | 12.7 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| Pyridine | < 340 | 679 | U | ug/Kg dry | 42.5 | 340 | 10/15/24 01:20 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 72%* | *Limits: 35-115* | | *10/15/24 01:20* | *B24J0296* | *LP* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 12:18
**Matrix:** Soil
**Lab ID:** O24J0276-10 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| *Surrogate: Phenol-d5* | | | | *Recovery: 76%* | *Limits: 33-122* | | *10/15/24 01:20* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 73%* | *Limits: 37-122* | | *10/15/24 01:20* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 73%* | *Limits: 44-115* | | *10/15/24 01:20* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 79%* | *Limits: 39-132* | | *10/15/24 01:20* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 78%* | *Limits: 54-127* | | *10/15/24 01:20* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.110 | 0.221 | U | mg/Kg dry | 0.0419 | 0.110 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.551 | 0.662 | U | mg/Kg dry | 0.240 | 0.551 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.662 | 0.882 | U | mg/Kg dry | 0.314 | 0.662 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.221 | 0.331 | U | mg/Kg dry | 0.0728 | 0.221 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.221 | 0.331 | U | mg/Kg dry | 0.0673 | 0.221 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.110 | 0.221 | U | mg/Kg dry | 0.0364 | 0.110 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.276 | 0.331 | U | mg/Kg dry | 0.129 | 0.276 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.110 | 0.331 | U | mg/Kg dry | 0.0298 | 0.110 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.221 | 0.331 | U | mg/Kg dry | 0.0607 | 0.221 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.662 | 0.882 | U | mg/Kg dry | 0.314 | 0.662 | 10/08/24 23:30 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 100%* | *Limits: 10-127* | | *10/08/24 23:30* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 78%* | *Limits: 44-130* | | *10/08/24 23:30* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.41 | 8.82 | U | ug/Kg dry | 1.68 | 4.41 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.21 | 4.41 | U | ug/Kg dry | 1.09 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.41 | 8.82 | U | ug/Kg dry | 2.17 | 4.41 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.21 | 4.41 | U | ug/Kg dry | 0.655 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.21 | 4.41 | U | ug/Kg dry | 0.970 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.21 | 4.41 | U | ug/Kg dry | 0.779 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.41 | 8.82 | U | ug/Kg dry | 1.23 | 4.41 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Chlordane | < 22.1 | 44.1 | U | ug/Kg dry | 10.7 | 22.1 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.21 | 4.41 | U | ug/Kg dry | 1.04 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.21 | 4.41 | U | ug/Kg dry | 0.686 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.21 | 4.41 | U | ug/Kg dry | 1.05 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.21 | 4.41 | U | ug/Kg dry | 1.00 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.41 | 8.82 | U | ug/Kg dry | 1.16 | 4.41 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Endrin | < 2.21 | 4.41 | U | ug/Kg dry | 0.795 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 12:18
**Matrix:** Soil
**Lab ID:** O24J0276-10 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| Endrin aldehyde | < 4.41 | 8.82 | U | ug/Kg dry | 1.29 | 4.41 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.41 | 8.82 | U | ug/Kg dry | 1.36 | 4.41 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.21 | 4.41 | U | ug/Kg dry | 0.937 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.41 | 8.82 | U | ug/Kg dry | 1.89 | 4.41 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.21 | 4.41 | U | ug/Kg dry | 1.08 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.21 | 4.41 | U | ug/Kg dry | 1.21 | 2.21 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.41 | 8.82 | U | ug/Kg dry | 2.12 | 4.41 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| Toxaphene | < 276 | 551 | U | ug/Kg dry | 186 | 276 | 10/17/24 22:26 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 97%* | *Limits: 23-110* | | *10/17/24 22:26* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 99%* | *Limits: 42-129* | | *10/17/24 22:26* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **9,020** | 67.0 | D | mg/Kg dry | 9.27 | 53.6 | 10/09/24 16:07 | B24J0437 | CS2 | 10 |
| Antimony | < 1.07 | 1.34 | U | mg/Kg dry | 0.536 | 1.07 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| Arsenic | < 1.07 | 1.34 | U | mg/Kg dry | 0.386 | 1.07 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Barium** | **44.6** | 1.34 | | mg/Kg dry | 0.209 | 0.536 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.171** | 0.134 | | mg/Kg dry | 0.0321 | 0.107 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.252** | 0.134 | | mg/Kg dry | 0.0268 | 0.0536 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Calcium** | **783** | 13.4 | B | mg/Kg dry | 5.36 | 10.7 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Chromium** | **14.1** | 1.34 | | mg/Kg dry | 0.370 | 1.07 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Cobalt** | **4.47** | 1.34 | | mg/Kg dry | 0.209 | 0.536 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Copper** | **3.85** | 1.34 | | mg/Kg dry | 0.316 | 1.07 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Iron** | **11,800** | 67.0 | D, B | mg/Kg dry | 32.1 | 64.3 | 10/09/24 16:07 | B24J0437 | CS2 | 10 |
| **Lead** | **26.5** | 1.34 | | mg/Kg dry | 0.321 | 1.07 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Magnesium** | **432** | 6.13 | | mg/Kg dry | 1.96 | 5.88 | 11/11/24 13:02 | B24K0386 | CS2 | 1 |
| **Manganese** | **286** | 1.34 | | mg/Kg dry | 0.225 | 0.536 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Nickel** | **4.87** | 1.34 | | mg/Kg dry | 0.236 | 0.536 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Potassium** | **412** | 12.8 | | mg/Kg dry | 7.93 | 12.3 | 11/15/24 16:15 | B24K0661 | CS2 | 1 |
| Selenium | < 1.07 | 1.34 | U, Q | mg/Kg dry | 0.386 | 1.07 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| Silver | < 1.07 | 1.34 | U | mg/Kg dry | 0.268 | 1.07 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Sodium** | **38.7** | 12.3 | | mg/Kg dry | 5.88 | 11.8 | 11/11/24 13:02 | B24K0386 | CS2 | 1 |
| Thallium | < 1.07 | 1.34 | U | mg/Kg dry | 0.514 | 1.07 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Vanadium** | **21.8** | 1.34 | | mg/Kg dry | 0.182 | 0.536 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |
| **Zinc** | **9.02** | 5.36 | | mg/Kg dry | 1.15 | 2.68 | 10/09/24 14:23 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 12:18
**Matrix:** Soil
**Lab ID:** O24J0276-10 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| Mercury | < 0.0308 | 0.0514 | U | mg/Kg dry | 0.0154 | 0.0308 | 10/15/24 12:01 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **88.1** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 13:19
**Matrix:** Soil
**Lab ID:** O24J0276-11

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.732 | 1.46 | U | ug/Kg dry | 0.296 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.732 | 1.46 | U | ug/Kg dry | 0.300 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.732 | 1.46 | U | ug/Kg dry | 0.261 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.732 | 1.46 | U | ug/Kg dry | 0.321 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.46 | 2.93 | U | ug/Kg dry | 0.397 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,1-Dichloroethene | < 0.732 | 1.46 | U | ug/Kg dry | 0.317 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,1-Dichloropropene | < 7.32 | 14.6 | U | ug/Kg dry | 2.08 | 7.32 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 14.6 | 29.3 | U, Q | ug/Kg dry | 4.74 | 14.6 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 7.32 | 14.6 | U | ug/Kg dry | 2.80 | 7.32 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 14.6 | 29.3 | U | ug/Kg dry | 4.66 | 14.6 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 2.93 | 5.86 | U | ug/Kg dry | 0.789 | 2.93 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 2.93 | 5.86 | U | ug/Kg dry | 1.21 | 2.93 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.732 | 1.46 | U | ug/Kg dry | 0.199 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 3.66 | 7.32 | U | ug/Kg dry | 1.28 | 3.66 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.732 | 1.46 | U | ug/Kg dry | 0.301 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.732 | 1.46 | U | ug/Kg dry | 0.354 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.46 | 2.93 | U | ug/Kg dry | 0.731 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.46 | 2.93 | U | ug/Kg dry | 0.525 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.732 | 1.46 | U | ug/Kg dry | 0.327 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,4-Dioxane | < 29.3 | 58.6 | U, Q | ug/Kg dry | 11.2 | 29.3 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 3.66 | 7.32 | U | ug/Kg dry | 1.34 | 3.66 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1-Propanol | < 73.2 | 146 | U, J1 | ug/Kg dry | 23.3 | 73.2 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.732 | 1.46 | U | ug/Kg dry | 0.242 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 2-Butanone | < 10.2 | 20.5 | U | ug/Kg dry | 4.99 | 10.2 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 36.6 | 73.2 | U, J1 | ug/Kg dry | 14.6 | 36.6 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 2-Chlorotoluene | < 1.46 | 2.93 | U | ug/Kg dry | 0.642 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 2-Hexanone | < 10.2 | 20.5 | U | ug/Kg dry | 3.89 | 10.2 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 4-Chlorotoluene | < 1.46 | 2.93 | U | ug/Kg dry | 0.641 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 4-Isopropyltoluene | < 2.93 | 5.86 | U | ug/Kg dry | 0.858 | 2.93 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 10.2 | 20.5 | U | ug/Kg dry | 2.99 | 10.2 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Acetone | < 25.6 | 51.2 | U | ug/Kg dry | 8.86 | 25.6 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Acetonitrile | < 73.2 | 146 | U | ug/Kg dry | 22.8 | 73.2 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Acrolein | < 14.6 | 29.3 | U, J1 | ug/Kg dry | 6.14 | 14.6 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Acrylonitrile | < 1.46 | 2.93 | U | ug/Kg dry | 0.717 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Benzene | < 0.732 | 1.46 | U | ug/Kg dry | 0.211 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Bromobenzene | < 1.46 | 2.93 | U | ug/Kg dry | 0.412 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Bromochloromethane | < 1.46 | 2.93 | U | ug/Kg dry | 0.513 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 13:19
**Matrix:** Soil
**Lab ID:** O24J0276-11 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.732 | 1.46 | U | ug/Kg dry | 0.353 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Bromoform | < 1.46 | 2.93 | U | ug/Kg dry | 0.461 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Bromomethane | < 7.32 | 14.6 | U, Q | ug/Kg dry | 1.76 | 7.32 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Carbon disulfide | < 1.46 | 2.93 | U | ug/Kg dry | 0.441 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Carbon tetrachloride | < 7.32 | 14.6 | U | ug/Kg dry | 2.04 | 7.32 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Chlorobenzene | < 1.46 | 2.93 | U | ug/Kg dry | 0.381 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Chloroethane | < 2.93 | 5.86 | U | ug/Kg dry | 1.04 | 2.93 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Chloroform | < 1.46 | 2.93 | U | ug/Kg dry | 0.535 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Chloromethane | < 2.93 | 5.86 | U | ug/Kg dry | 1.07 | 2.93 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| cis-1,2-Dichloroethene | < 1.46 | 2.93 | U | ug/Kg dry | 0.418 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 1.46 | 2.93 | U | ug/Kg dry | 0.507 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Cyclohexane | < 3.66 | 7.32 | U | ug/Kg dry | 1.13 | 3.66 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Dibromochloromethane | < 0.732 | 1.46 | U | ug/Kg dry | 0.348 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Dibromomethane | < 0.732 | 1.46 | U | ug/Kg dry | 0.268 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Dichlorodifluoromethane | < 3.66 | 7.32 | U | ug/Kg dry | 0.886 | 3.66 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Ethylbenzene | < 2.93 | 5.86 | U | ug/Kg dry | 0.758 | 2.93 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Isobutanol | < 29.3 | 58.6 | U | ug/Kg dry | 7.79 | 29.3 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Isopropanol | < 29.3 | 58.6 | U | ug/Kg dry | 12.7 | 29.3 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Isopropylbenzene | < 1.46 | 2.93 | U | ug/Kg dry | 0.727 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| m,p-Xylene | < 2.93 | 5.86 | U | ug/Kg dry | 1.18 | 2.93 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.732 | 1.46 | U | ug/Kg dry | 0.245 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Methylene chloride | < 7.32 | 14.6 | U | ug/Kg dry | 2.88 | 7.32 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| n-Butylbenzene | < 7.32 | 14.6 | U, Q | ug/Kg dry | 2.09 | 7.32 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| n-Propylbenzene | < 1.46 | 2.93 | U | ug/Kg dry | 0.701 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Naphthalene | < 14.6 | 29.3 | U, Q | ug/Kg dry | 7.27 | 14.6 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| o-Xylene | < 2.93 | 5.86 | U | ug/Kg dry | 0.748 | 2.93 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| sec-Butylbenzene | < 1.46 | 2.93 | U, Q | ug/Kg dry | 0.718 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Styrene | < 2.93 | 5.86 | U, J1 | ug/Kg dry | 0.803 | 2.93 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| tert-Butylbenzene | < 1.46 | 2.93 | U | ug/Kg dry | 0.278 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Tetrachloroethene | < 1.46 | 2.93 | U | ug/Kg dry | 0.428 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Tetrahydrofuran | < 3.66 | 7.32 | U | ug/Kg dry | 1.05 | 3.66 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Toluene | < 0.732 | 1.46 | U | ug/Kg dry | 0.265 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 1.46 | 2.93 | U | ug/Kg dry | 0.678 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.46 | 2.93 | U | ug/Kg dry | 0.599 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Trichloroethene | < 0.732 | 1.46 | U | ug/Kg dry | 0.355 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Trichlorofluoromethane | < 0.732 | 1.46 | U | ug/Kg dry | 0.303 | 0.732 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Vinyl acetate | < 1.46 | 2.93 | U, J1, Q | ug/Kg dry | 0.373 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 13:19
**Matrix:** Soil
**Lab ID:** O24J0276-11 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 1.46 | 2.93 | U | ug/Kg dry | 0.523 | 1.46 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| Xylenes, Total | < 4.39 | 8.79 | U | ug/Kg dry | 1.87 | 4.39 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| 1,2-Dichloroethene, Total | < 2.93 | 5.86 | U | ug/Kg dry | 0.957 | 2.93 | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 107%* | *Limits: 78-119* | | *10/08/24 16:43* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 100%* | *Limits: 71-136* | | *10/08/24 16:43* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 100%* | *Limits: 81-114* | | *10/08/24 16:43* | *B24J0623* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 94%* | *Limits: 85-116* | | *10/08/24 16:43* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 108%* | *Limits: 79-119* | | *10/08/24 16:43* | *B24J0623* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 108%* | *Limits: 78-121* | | *10/08/24 16:43* | *B24J0623* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **1-Hexanol, 2-ethyl-** | **4.38** | | | ug/Kg | | | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| **Propene** | **2.17** | | | ug/Kg | | | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| **unknown** | **1.53** | | | ug/Kg | | | 10/08/24 16:43 | B24J0623 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| 1-Methylnaphthalene | < 8.97 | 17.9 | U | ug/Kg dry | 2.86 | 8.97 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 8.97 | 17.9 | U | ug/Kg dry | 3.04 | 8.97 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Acenaphthene | < 8.97 | 17.9 | U | ug/Kg dry | 3.27 | 8.97 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 11.2 | 17.9 | U | ug/Kg dry | 4.87 | 11.2 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Anthracene | < 11.2 | 17.9 | U | ug/Kg dry | 4.57 | 11.2 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Benzo(a)anthracene | < 8.97 | 17.9 | U | ug/Kg dry | 3.58 | 8.97 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Benzo(a)pyrene | < 8.97 | 17.9 | U | ug/Kg dry | 2.73 | 8.97 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 11.2 | 17.9 | U | ug/Kg dry | 5.77 | 11.2 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 11.2 | 17.9 | U | ug/Kg dry | 5.59 | 11.2 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 11.2 | 17.9 | U | ug/Kg dry | 4.68 | 11.2 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Chrysene | < 8.97 | 17.9 | U | ug/Kg dry | 3.77 | 8.97 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 11.2 | 17.9 | U | ug/Kg dry | 4.53 | 11.2 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Fluoranthene | < 11.2 | 17.9 | U | ug/Kg dry | 5.58 | 11.2 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Fluorene | < 8.97 | 17.9 | U | ug/Kg dry | 4.28 | 8.97 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Indeno(1,2,3-cd)pyrene | < 11.2 | 17.9 | U | ug/Kg dry | 4.56 | 11.2 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Naphthalene | < 11.2 | 17.9 | U | ug/Kg dry | 5.38 | 11.2 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Phenanthrene | < 8.97 | 17.9 | U | ug/Kg dry | 4.40 | 8.97 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| Pyrene | < 11.2 | 17.9 | U | ug/Kg dry | 2.46 | 11.2 | 10/11/24 14:34 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 84%* | *Limits: 57-119* | | *10/11/24 14:34* | *B24J0527* | *MS5* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 13:19
**Matrix:** Soil
**Lab ID:** O24J0276-11 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270D SIM / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 72%* | *Limits: 54-133* | | *10/11/24 14:34* | *B24J0527* | *MS5* | 1 |
| **Method: SW8270E / SW3550** | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | < 16.9 | 25.4 | U, J1 | ug/Kg dry | 4.79 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 16.9 | 25.4 | U, J1 | ug/Kg dry | 4.41 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 12.7 | 25.4 | U, J1 | ug/Kg dry | 4.20 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 16.9 | 25.4 | U, J1 | ug/Kg dry | 4.02 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 12.7 | 25.4 | U | ug/Kg dry | 4.76 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 8.47 | 16.9 | U, J1 | ug/Kg dry | 3.01 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 8.47 | 16.9 | U, J1 | ug/Kg dry | 5.61 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 8.47 | 16.9 | U, J1 | ug/Kg dry | 2.71 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 25.4 | 50.8 | U, J1 | ug/Kg dry | 3.49 | 25.4 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 254 | 424 | U | ug/Kg dry | 57.6 | 254 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 16.9 | 25.4 | U | ug/Kg dry | 5.59 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 8.47 | 16.9 | U | ug/Kg dry | 2.67 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 8.47 | 16.9 | U | ug/Kg dry | 3.01 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 8.47 | 16.9 | U | ug/Kg dry | 3.60 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 8.47 | 16.9 | U, J1 | ug/Kg dry | 3.78 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 12.7 | 25.4 | U | ug/Kg dry | 4.13 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.24 | 8.47 | U, J1 | ug/Kg dry | 1.95 | 4.24 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2-Nitroaniline | < 16.9 | 25.4 | U, J1 | ug/Kg dry | 5.16 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 16.9 | 25.4 | U, J1 | ug/Kg dry | 7.11 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 50.8 | 102 | U | ug/Kg dry | 16.1 | 50.8 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 16.9 | 33.9 | U, J1 | ug/Kg dry | 6.61 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 16.9 | 25.4 | U, J1 | ug/Kg dry | 9.02 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 339 | 678 | U, J1 | ug/Kg dry | 99.9 | 339 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 12.7 | 25.4 | U | ug/Kg dry | 4.49 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 8.47 | 16.9 | U | ug/Kg dry | 2.32 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 12.7 | 25.4 | U, J1 | ug/Kg dry | 4.07 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 12.7 | 25.4 | U | ug/Kg dry | 4.29 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 16.9 | 33.9 | U | ug/Kg dry | 3.36 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 339 | 678 | U | ug/Kg dry | 112 | 339 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Acenaphthene | < 8.47 | 16.9 | U | ug/Kg dry | 3.40 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Acenaphthylene | < 8.47 | 16.9 | U | ug/Kg dry | 3.82 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Aniline | < 102 | 169 | U, J1 | ug/Kg dry | 5.99 | 102 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Anthracene | < 12.7 | 25.4 | U | ug/Kg dry | 4.89 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 8.47 | 16.9 | U | ug/Kg dry | 2.42 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 13:19
**Matrix:** Soil
**Lab ID:** O24J0276-11 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzidine | < 678 | 2,820 | U, J1 | ug/Kg dry | 144 | 678 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 12.7 | 25.4 | U | ug/Kg dry | 4.25 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 33.9 | 67.8 | U | ug/Kg dry | 5.19 | 33.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Benzo(b)fluoranthene | < 16.9 | 25.4 | U | ug/Kg dry | 6.80 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 16.9 | 33.9 | U | ug/Kg dry | 3.76 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 16.9 | 33.9 | U | ug/Kg dry | 4.14 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Benzoic acid | < 339 | 1,360 | U | ug/Kg dry | 84.2 | 339 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 12.7 | 25.4 | U, J1 | ug/Kg dry | 4.35 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 8.47 | 16.9 | U, J1 | ug/Kg dry | 3.71 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 339 | 424 | U, J1 | ug/Kg dry | 44.9 | 339 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 102 | 169 | U | ug/Kg dry | 28.7 | 102 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 25.4 | 50.8 | U | ug/Kg dry | 7.02 | 25.4 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Carbazole | < 8.47 | 16.9 | U, J1 | ug/Kg dry | 2.85 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Chrysene | < 8.47 | 16.9 | U | ug/Kg dry | 2.70 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 12.7 | 25.4 | U | ug/Kg dry | 10.3 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Dibenzofuran | < 12.7 | 25.4 | U | ug/Kg dry | 3.77 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 102 | 169 | U, J1 | ug/Kg dry | 29.2 | 102 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 8.47 | 16.9 | U, J1 | ug/Kg dry | 3.40 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 25.4 | 50.8 | U | ug/Kg dry | 9.42 | 25.4 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 16.9 | 25.4 | U | ug/Kg dry | 6.21 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Fluoranthene | < 16.9 | 25.4 | U | ug/Kg dry | 5.49 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Fluorene | < 8.47 | 16.9 | U | ug/Kg dry | 3.33 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 8.47 | 16.9 | U | ug/Kg dry | 3.26 | 8.47 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 16.9 | 33.9 | U | ug/Kg dry | 5.21 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 339 | 678 | U | ug/Kg dry | 63.7 | 339 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Hexachloroethane | < 16.9 | 33.9 | U, J1 | ug/Kg dry | 4.65 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 16.9 | 25.4 | U | ug/Kg dry | 6.71 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Isophorone | < 12.7 | 25.4 | U, J1 | ug/Kg dry | 3.24 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Naphthalene | < 16.9 | 25.4 | U, J1 | ug/Kg dry | 4.87 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Nitrobenzene | < 16.9 | 33.9 | U, J1 | ug/Kg dry | 4.39 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 16.9 | 33.9 | U, J1 | ug/Kg dry | 6.41 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 25.4 | 50.8 | U, J1 | ug/Kg dry | 7.95 | 25.4 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| N-Nitrosodiphenylamine | < 16.9 | 25.4 | U | ug/Kg dry | 5.87 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 16.9 | 25.4 | U | ug/Kg dry | 5.69 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 254 | 424 | U, J1 | ug/Kg dry | 45.6 | 254 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Phenanthrene | < 12.7 | 25.4 | U | ug/Kg dry | 4.39 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Phenol | < 16.9 | 33.9 | U, J1 | ug/Kg dry | 4.68 | 16.9 | 10/14/24 20:30 | B24J0296 | LP | 1 |

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# Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 13:19
**Matrix:** Soil
**Lab ID:** O24J0276-11 (Continued)

## Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| Pyrene | < 12.7 | 25.4 | U | ug/Kg dry | 4.67 | 12.7 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| Pyridine | < 339 | 678 | U, J1 | ug/Kg dry | 42.4 | 339 | 10/14/24 20:30 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 75%* | *Limits: 35-115* | | *10/14/24 20:30* | *B24J0296* | *LP* | 1 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 79%* | *Limits: 33-122* | | *10/14/24 20:30* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 75%* | *Limits: 37-122* | | *10/14/24 20:30* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 66%* | *Limits: 44-115* | | *10/14/24 20:30* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 74%* | *Limits: 39-132* | | *10/14/24 20:30* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 78%* | *Limits: 54-127* | | *10/14/24 20:30* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.112 | 0.225 | U | mg/Kg dry | 0.0427 | 0.112 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.562 | 0.674 | U | mg/Kg dry | 0.245 | 0.562 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.674 | 0.899 | U | mg/Kg dry | 0.320 | 0.674 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.225 | 0.337 | U | mg/Kg dry | 0.0742 | 0.225 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.225 | 0.337 | U | mg/Kg dry | 0.0686 | 0.225 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.112 | 0.225 | U | mg/Kg dry | 0.0371 | 0.112 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.281 | 0.337 | U | mg/Kg dry | 0.132 | 0.281 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.112 | 0.337 | U | mg/Kg dry | 0.0304 | 0.112 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.225 | 0.337 | U | mg/Kg dry | 0.0618 | 0.225 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.674 | 0.899 | U | mg/Kg dry | 0.320 | 0.674 | 10/08/24 23:47 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 93%* | *Limits: 10-127* | | *10/08/24 23:47* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 70%* | *Limits: 44-130* | | *10/08/24 23:47* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.50 | 8.99 | U | ug/Kg dry | 1.71 | 4.50 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.25 | 4.50 | U | ug/Kg dry | 1.11 | 2.25 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.50 | 8.99 | U | ug/Kg dry | 2.21 | 4.50 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.25 | 4.50 | U | ug/Kg dry | 0.667 | 2.25 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.25 | 4.50 | U | ug/Kg dry | 0.989 | 2.25 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.25 | 4.50 | U | ug/Kg dry | 0.794 | 2.25 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.50 | 8.99 | U | ug/Kg dry | 1.25 | 4.50 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| Chlordane | < 22.5 | 45.0 | U | ug/Kg dry | 10.9 | 22.5 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.25 | 4.50 | U | ug/Kg dry | 1.06 | 2.25 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.25 | 4.50 | U | ug/Kg dry | 0.699 | 2.25 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.25 | 4.50 | U | ug/Kg dry | 1.07 | 2.25 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 13:19
**Matrix:** Soil
**Lab ID:** O24J0276-11 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| Endosulfan II | < 2.25 | 4.50 | U | ug/Kg dry | 1.02 | 2.25 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.50 | 8.99 | U | ug/Kg dry | 1.18 | 4.50 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| Endrin | < 2.25 | 4.50 | U | ug/Kg dry | 0.810 | 2.25 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 4.50 | 8.99 | U | ug/Kg dry | 1.31 | 4.50 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.50 | 8.99 | U | ug/Kg dry | 1.39 | 4.50 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.25 | 4.50 | U | ug/Kg dry | 0.955 | 2.25 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.50 | 8.99 | U | ug/Kg dry | 1.93 | 4.50 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.25 | 4.50 | U | ug/Kg dry | 1.10 | 2.25 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.25 | 4.50 | U | ug/Kg dry | 1.24 | 2.25 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.50 | 8.99 | U | ug/Kg dry | 2.16 | 4.50 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| Toxaphene | < 281 | 562 | U | ug/Kg dry | 189 | 281 | 10/17/24 23:50 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 91%* | *Limits: 23-110* | | *10/17/24 23:50* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 89%* | *Limits: 42-129* | | *10/18/24 00:07* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **7,610** | 67.2 | D | mg/Kg dry | 9.30 | 53.8 | 10/09/24 16:11 | B24J0437 | CS2 | 10 |
| Antimony | < 1.08 | 1.34 | U | mg/Kg dry | 0.538 | 1.08 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Arsenic** | **0.519** | 1.34 | J | mg/Kg dry | 0.387 | 1.08 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Barium** | **35.8** | 1.34 | | mg/Kg dry | 0.210 | 0.538 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.105** | 0.134 | J | mg/Kg dry | 0.0323 | 0.108 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.245** | 0.134 | | mg/Kg dry | 0.0269 | 0.0538 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Calcium** | **782** | 13.4 | B | mg/Kg dry | 5.38 | 10.8 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Chromium** | **11.6** | 1.34 | | mg/Kg dry | 0.371 | 1.08 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Cobalt** | **2.78** | 1.34 | | mg/Kg dry | 0.210 | 0.538 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Copper** | **4.02** | 1.34 | | mg/Kg dry | 0.317 | 1.08 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Iron** | **10,900** | 67.2 | D, B | mg/Kg dry | 32.3 | 64.5 | 10/09/24 16:11 | B24J0437 | CS2 | 10 |
| **Lead** | **32.0** | 1.34 | | mg/Kg dry | 0.323 | 1.08 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Magnesium** | **332** | 5.81 | | mg/Kg dry | 1.86 | 5.58 | 11/11/24 13:07 | B24K0386 | CS2 | 1 |
| **Manganese** | **220** | 1.34 | | mg/Kg dry | 0.226 | 0.538 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Nickel** | **3.35** | 1.34 | | mg/Kg dry | 0.237 | 0.538 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Potassium** | **341** | 13.9 | | mg/Kg dry | 8.59 | 13.3 | 11/15/24 16:19 | B24K0661 | CS2 | 1 |
| Selenium | < 1.08 | 1.34 | U, Q | mg/Kg dry | 0.387 | 1.08 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| Silver | < 1.08 | 1.34 | U | mg/Kg dry | 0.269 | 1.08 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Sodium** | **35.5** | 11.6 | | mg/Kg dry | 5.58 | 11.2 | 11/11/24 13:07 | B24K0386 | CS2 | 1 |
| Thallium | < 1.08 | 1.34 | U | mg/Kg dry | 0.516 | 1.08 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| **Vanadium** | **20.2** | 1.34 | | mg/Kg dry | 0.183 | 0.538 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-108-32-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 13:19
**Matrix:** Soil
**Lab ID:** O24J0276-11 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Metals by ICP-AES (Continued)*** | | | | | | | | | | |
| **Method: SW6010D / SW3050 (Continued)** | | | | | | | | | | |
| **Zinc** | **8.63** | 5.38 | | mg/Kg dry | 1.16 | 2.69 | 10/09/24 14:27 | B24J0437 | CS2 | 1 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| Mercury | < 0.0300 | 0.0500 | U | mg/Kg dry | 0.0150 | 0.0300 | 10/15/24 12:03 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **87.9** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:19
**Matrix:** Soil
**Lab ID:** O24J0276-12

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.884 | 1.77 | U | ug/Kg dry | 0.358 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.884 | 1.77 | U | ug/Kg dry | 0.362 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.884 | 1.77 | U | ug/Kg dry | 0.315 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.884 | 1.77 | U | ug/Kg dry | 0.388 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.77 | 3.54 | U | ug/Kg dry | 0.480 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,1-Dichloroethene | < 0.884 | 1.77 | U | ug/Kg dry | 0.383 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,1-Dichloropropene | < 8.84 | 17.7 | U | ug/Kg dry | 2.51 | 8.84 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 17.7 | 35.4 | Q, U | ug/Kg dry | 5.73 | 17.7 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 8.84 | 17.7 | U | ug/Kg dry | 3.38 | 8.84 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 17.7 | 35.4 | U | ug/Kg dry | 5.62 | 17.7 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 3.54 | 7.07 | U | ug/Kg dry | 0.952 | 3.54 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.54 | 7.07 | U | ug/Kg dry | 1.47 | 3.54 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.884 | 1.77 | U | ug/Kg dry | 0.240 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 4.42 | 8.84 | U | ug/Kg dry | 1.55 | 4.42 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.884 | 1.77 | U | ug/Kg dry | 0.363 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.884 | 1.77 | U | ug/Kg dry | 0.427 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.77 | 3.54 | U | ug/Kg dry | 0.883 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.77 | 3.54 | U | ug/Kg dry | 0.633 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.884 | 1.77 | U | ug/Kg dry | 0.395 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,4-Dioxane | < 35.4 | 70.7 | U | ug/Kg dry | 13.5 | 35.4 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 4.42 | 8.84 | U | ug/Kg dry | 1.62 | 4.42 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 1-Propanol | < 88.4 | 177 | Q, U | ug/Kg dry | 28.1 | 88.4 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.884 | 1.77 | U | ug/Kg dry | 0.293 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **2-Butanone** | **22.3** | 24.7 | J | ug/Kg dry | 6.02 | 12.4 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 44.2 | 88.4 | U | ug/Kg dry | 17.7 | 44.2 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 2-Chlorotoluene | < 1.77 | 3.54 | U | ug/Kg dry | 0.775 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 2-Hexanone | < 12.4 | 24.7 | U | ug/Kg dry | 4.69 | 12.4 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 4-Chlorotoluene | < 1.77 | 3.54 | U | ug/Kg dry | 0.774 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 4-Isopropyltoluene | < 3.54 | 7.07 | U | ug/Kg dry | 1.04 | 3.54 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 12.4 | 24.7 | U | ug/Kg dry | 3.60 | 12.4 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **Acetone** | **190** | 61.9 | | ug/Kg dry | 10.7 | 30.9 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Acetonitrile | < 88.4 | 177 | U | ug/Kg dry | 27.6 | 88.4 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Acrolein | < 17.7 | 35.4 | U | ug/Kg dry | 7.42 | 17.7 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Acrylonitrile | < 1.77 | 3.54 | U | ug/Kg dry | 0.866 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **Benzene** | **1.72** | 1.77 | J | ug/Kg dry | 0.255 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Bromobenzene | < 1.77 | 3.54 | U | ug/Kg dry | 0.497 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Bromochloromethane | < 1.77 | 3.54 | U | ug/Kg dry | 0.620 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:19
**Matrix:** Soil
**Lab ID:** O24J0276-12 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.884 | 1.77 | U | ug/Kg dry | 0.426 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Bromoform | < 1.77 | 3.54 | U | ug/Kg dry | 0.557 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Bromomethane | < 8.84 | 17.7 | U | ug/Kg dry | 2.12 | 8.84 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Carbon disulfide | < 1.77 | 3.54 | Q, U | ug/Kg dry | 0.532 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Carbon tetrachloride | < 8.84 | 17.7 | U | ug/Kg dry | 2.47 | 8.84 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Chlorobenzene | < 1.77 | 3.54 | U | ug/Kg dry | 0.460 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Chloroethane | < 3.54 | 7.07 | U | ug/Kg dry | 1.25 | 3.54 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **Chloroform** | **0.725** | 3.54 | J | ug/Kg dry | 0.646 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Chloromethane | < 3.54 | 7.07 | U | ug/Kg dry | 1.29 | 3.54 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **cis-1,2-Dichloroethene** | **36.7** | 3.54 | | ug/Kg dry | 0.504 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 1.77 | 3.54 | U | ug/Kg dry | 0.611 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Cyclohexane | < 4.42 | 8.84 | U | ug/Kg dry | 1.36 | 4.42 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Dibromochloromethane | < 0.884 | 1.77 | U | ug/Kg dry | 0.420 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Dibromomethane | < 0.884 | 1.77 | U | ug/Kg dry | 0.323 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Dichlorodifluoromethane | < 4.42 | 8.84 | U | ug/Kg dry | 1.07 | 4.42 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Ethylbenzene | < 3.54 | 7.07 | U | ug/Kg dry | 0.915 | 3.54 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Isobutanol | < 35.4 | 70.7 | U | ug/Kg dry | 9.40 | 35.4 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Isopropanol | < 35.4 | 70.7 | U | ug/Kg dry | 15.3 | 35.4 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Isopropylbenzene | < 1.77 | 3.54 | U | ug/Kg dry | 0.878 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| m,p-Xylene | < 3.54 | 7.07 | U | ug/Kg dry | 1.43 | 3.54 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.884 | 1.77 | U | ug/Kg dry | 0.296 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Methylene chloride | < 8.84 | 17.7 | U | ug/Kg dry | 3.47 | 8.84 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| n-Butylbenzene | < 8.84 | 17.7 | U | ug/Kg dry | 2.53 | 8.84 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| n-Propylbenzene | < 1.77 | 3.54 | U | ug/Kg dry | 0.846 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Naphthalene | < 17.7 | 35.4 | Q, U | ug/Kg dry | 8.78 | 17.7 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| o-Xylene | < 3.54 | 7.07 | U | ug/Kg dry | 0.903 | 3.54 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| sec-Butylbenzene | < 1.77 | 3.54 | U | ug/Kg dry | 0.867 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Styrene | < 3.54 | 7.07 | U | ug/Kg dry | 0.970 | 3.54 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| tert-Butylbenzene | < 1.77 | 3.54 | U | ug/Kg dry | 0.336 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **Tetrachloroethene** | **3,060** | 2,090 | | ug/Kg dry | 513 | 1,050 | 10/15/24 11:27 | B24J0919 | TC1 | 500 |
| Tetrahydrofuran | < 4.42 | 8.84 | U | ug/Kg dry | 1.27 | 4.42 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **Toluene** | **1.86** | 1.77 | | ug/Kg dry | 0.319 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **trans-1,2-Dichloroethene** | **2.29** | 3.54 | J | ug/Kg dry | 0.818 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.77 | 3.54 | U | ug/Kg dry | 0.723 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **Trichloroethene** | **8,800** | 209 | | ug/Kg dry | 24.6 | 105 | 10/15/24 11:27 | B24J0919 | TC1 | 500 |
| Trichlorofluoromethane | < 0.884 | 1.77 | U | ug/Kg dry | 0.366 | 0.884 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Vinyl acetate | < 1.77 | 3.54 | U | ug/Kg dry | 0.451 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:19
**Matrix:** Soil
**Lab ID:** O24J0276-12 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 1.77 | 3.54 | U | ug/Kg dry | 0.631 | 1.77 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| Xylenes, Total | < 5.30 | 10.6 | U | ug/Kg dry | 2.26 | 5.30 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **1,2-Dichloroethene, Total** | **39.0** | 7.07 | | ug/Kg dry | 1.15 | 3.54 | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 107%* | *Limits: 78-119* | | *10/09/24 11:50* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 107%* | *Limits: 71-136* | | *10/09/24 11:50* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 101%* | *Limits: 81-114* | | *10/09/24 11:50* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 100%* | *Limits: 85-116* | | *10/09/24 11:50* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 115%* | *Limits: 79-119* | | *10/09/24 11:50* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 101%* | *Limits: 78-121* | | *10/09/24 11:50* | *B24J0625* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **Butanal** | **5.29** | | | ug/Kg | | | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **Hexanal** | **13.3** | | | ug/Kg | | | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **Pentanal** | **5.69** | | | ug/Kg | | | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **Propene** | **12.7** | | | ug/Kg | | | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **unknown** | **2.42** | | | ug/Kg | | | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **unknown (01)** | **9.37** | | | ug/Kg | | | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| **unknown (02)** | **2.54** | | | ug/Kg | | | 10/09/24 11:50 | B24J0625 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| **1-Methylnaphthalene** | **24.5** | 18.9 | | ug/Kg dry | 3.01 | 9.46 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **2-Methylnaphthalene** | **18.9** | 18.9 | | ug/Kg dry | 3.21 | 9.46 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Acenaphthene** | **419** | 18.9 | | ug/Kg dry | 3.45 | 9.46 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Acenaphthylene** | **46.8** | 18.9 | | ug/Kg dry | 5.13 | 11.8 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Anthracene** | **549** | 18.9 | | ug/Kg dry | 4.82 | 11.8 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Benzo(a)anthracene** | **3,780** | 18.9 | | ug/Kg dry | 3.77 | 9.46 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Benzo(a)pyrene** | **4,280** | 18.9 | | ug/Kg dry | 2.88 | 9.46 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Benzo(b)fluoranthene** | **6,240** | 18.9 | | ug/Kg dry | 6.09 | 11.8 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Benzo(g,h,i)perylene** | **3,100** | 18.9 | | ug/Kg dry | 5.90 | 11.8 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Benzo(k)fluoranthene** | **2,320** | 18.9 | | ug/Kg dry | 4.93 | 11.8 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Chrysene** | **4,200** | 18.9 | | ug/Kg dry | 3.98 | 9.46 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Dibenzo(a,h)anthracene** | **691** | 18.9 | | ug/Kg dry | 4.78 | 11.8 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Fluoranthene** | **15,600** | 94.6 | D | ug/Kg dry | 29.4 | 59.1 | 10/15/24 18:23 | B24J0527 | MS5 | 5 |
| **Fluorene** | **244** | 18.9 | | ug/Kg dry | 4.51 | 9.46 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Indeno(1,2,3-cd)pyrene** | **3,460** | 18.9 | | ug/Kg dry | 4.81 | 11.8 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:19
**Matrix:** Soil
**Lab ID:** O24J0276-12 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550 (Continued)** | | | | | | | | | | |
| **Naphthalene** | **41.2** | 18.9 | | ug/Kg dry | 5.67 | 11.8 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Phenanthrene** | **4,340** | 18.9 | | ug/Kg dry | 4.64 | 9.46 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| **Pyrene** | **7,030** | 18.9 | | ug/Kg dry | 2.59 | 11.8 | 10/11/24 18:23 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 87%* | *Limits: 57-119* | | *10/11/24 18:23* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 75%* | *Limits: 54-133* | | *10/11/24 18:23* | *B24J0527* | *MS5* | 1 |
| **Method: SW8270E / SW3550** | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | < 92.6 | 139 | U | ug/Kg dry | 26.2 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 1,2-Dichlorobenzene | < 92.6 | 139 | U | ug/Kg dry | 24.1 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 1,3-Dichlorobenzene | < 69.5 | 139 | U | ug/Kg dry | 22.9 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 1,4-Dichlorobenzene | < 92.6 | 139 | U | ug/Kg dry | 22.0 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 1-Methylnaphthalene | < 69.5 | 139 | U | ug/Kg dry | 26.1 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2,4,5-Trichlorophenol | < 46.3 | 92.6 | U | ug/Kg dry | 16.5 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2,4,6-Trichlorophenol | < 46.3 | 92.6 | U | ug/Kg dry | 30.7 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2,4-Dichlorophenol | < 46.3 | 92.6 | U | ug/Kg dry | 14.8 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2,4-Dimethylphenol | < 139 | 278 | U | ug/Kg dry | 19.1 | 139 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2,4-Dinitrophenol | < 1,390 | 2,320 | U | ug/Kg dry | 315 | 1,390 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2,4-Dinitrotoluene | < 92.6 | 139 | U | ug/Kg dry | 30.6 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2,6-Dichlorophenol | < 46.3 | 92.6 | U | ug/Kg dry | 14.6 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2,6-Dinitrotoluene | < 46.3 | 92.6 | U | ug/Kg dry | 16.5 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2-Chloronaphthalene | < 46.3 | 92.6 | U | ug/Kg dry | 19.7 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2-Chlorophenol | < 46.3 | 92.6 | U | ug/Kg dry | 20.7 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2-Methylnaphthalene | < 69.5 | 139 | U | ug/Kg dry | 22.6 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2-Methylphenol | < 23.2 | 46.3 | U | ug/Kg dry | 10.6 | 23.2 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2-Nitroaniline | < 92.6 | 139 | U | ug/Kg dry | 28.2 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 2-Nitrophenol | < 92.6 | 139 | U | ug/Kg dry | 38.9 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 3,3´-Dichlorobenzidine | < 278 | 556 | U | ug/Kg dry | 88.3 | 278 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 3 & 4-Methylphenol | < 92.6 | 185 | U | ug/Kg dry | 36.1 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 3-Nitroaniline | < 92.6 | 139 | U | ug/Kg dry | 49.3 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 4,6-Dinitro-2-methylphenol | < 1,850 | 3,710 | U | ug/Kg dry | 546 | 1,850 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 4-Bromophenyl-phenylether | < 69.5 | 139 | U | ug/Kg dry | 24.5 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 4-Chloro-3-methylphenol | < 46.3 | 92.6 | U | ug/Kg dry | 12.7 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 4-Chloroaniline | < 69.5 | 139 | U | ug/Kg dry | 22.3 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 4-Chlorophenyl-phenylether | < 69.5 | 139 | U | ug/Kg dry | 23.5 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 4-Nitroaniline | < 92.6 | 185 | U | ug/Kg dry | 18.4 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| 4-Nitrophenol | < 1,850 | 3,710 | U | ug/Kg dry | 615 | 1,850 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Acenaphthene** | **40.1** | 92.6 | J | ug/Kg dry | 18.6 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:19
**Matrix:** Soil
**Lab ID:** O24J0276-12 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | < 46.3 | 92.6 | U | ug/Kg dry | 20.9 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Aniline | < 556 | 926 | U | ug/Kg dry | 32.8 | 556 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Anthracene** | **81.8** | 139 | J | ug/Kg dry | 26.7 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Azobenzene as 1,2-Diphenylhydrazine | < 46.3 | 92.6 | U | ug/Kg dry | 13.2 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Benzidine | < 3,710 | 15,400 | U | ug/Kg dry | 786 | 3,710 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Benzo(a)anthracene** | **411** | 139 | | ug/Kg dry | 23.2 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Benzo(a)pyrene** | **474** | 371 | | ug/Kg dry | 28.4 | 185 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Benzo(b)fluoranthene** | **757** | 139 | | ug/Kg dry | 37.2 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Benzo(g,h,i)perylene** | **395** | 185 | | ug/Kg dry | 20.6 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Benzo(k)fluoranthene** | **205** | 185 | | ug/Kg dry | 22.6 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Benzoic acid | < 1,850 | 7,410 | U | ug/Kg dry | 461 | 1,850 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Benzyl alcohol | < 69.5 | 139 | U | ug/Kg dry | 23.8 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Bis(2-chloroethoxy)methane | < 46.3 | 92.6 | U | ug/Kg dry | 20.3 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Bis(2-chloroethyl)ether | < 1,850 | 2,320 | U | ug/Kg dry | 246 | 1,850 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Bis(2-ethylhexyl)phthalate | < 556 | 926 | U | ug/Kg dry | 157 | 556 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Butyl benzyl phthalate | < 139 | 278 | U | ug/Kg dry | 38.4 | 139 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Carbazole** | **97.3** | 92.6 | | ug/Kg dry | 15.6 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Chrysene** | **519** | 92.6 | | ug/Kg dry | 14.8 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Dibenzo(a,h)anthracene** | **103** | 139 | J | ug/Kg dry | 56.3 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Dibenzofuran | < 69.5 | 139 | U | ug/Kg dry | 20.6 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Diethyl phthalate | < 556 | 926 | U | ug/Kg dry | 160 | 556 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Dimethyl phthalate | < 46.3 | 92.6 | U | ug/Kg dry | 18.6 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Di-n-butyl phthalate | < 139 | 278 | U | ug/Kg dry | 51.5 | 139 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Di-n-octyl phthalate | < 92.6 | 139 | U | ug/Kg dry | 33.9 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Fluoranthene** | **1,080** | 139 | | ug/Kg dry | 30.0 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Fluorene** | **23.2** | 92.6 | J | ug/Kg dry | 18.2 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Hexachlorobenzene | < 46.3 | 92.6 | U | ug/Kg dry | 17.8 | 46.3 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Hexachlorobutadiene | < 92.6 | 185 | U | ug/Kg dry | 28.5 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Hexachlorocyclopentadiene | < 1,850 | 3,710 | U | ug/Kg dry | 348 | 1,850 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Hexachloroethane | < 92.6 | 185 | U | ug/Kg dry | 25.4 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Indeno(1,2,3-cd)pyrene** | **381** | 139 | | ug/Kg dry | 36.7 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Isophorone | < 69.5 | 139 | U | ug/Kg dry | 17.7 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Naphthalene | < 92.6 | 139 | U | ug/Kg dry | 26.6 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Nitrobenzene | < 92.6 | 185 | U | ug/Kg dry | 24.0 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| N-Nitrosodimethylamine | < 92.6 | 185 | U | ug/Kg dry | 35.1 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| N-Nitrosodi-n-propylamine | < 139 | 278 | U | ug/Kg dry | 43.5 | 139 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| N-Nitrosodiphenylamine | < 92.6 | 139 | U | ug/Kg dry | 32.1 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:19
**Matrix:** Soil
**Lab ID:** O24J0276-12 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| N-Nitrosopyrrolidine | < 92.6 | 139 | U | ug/Kg dry | 31.1 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Pentachlorophenol | < 1,390 | 2,320 | U | ug/Kg dry | 249 | 1,390 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Phenanthrene** | **564** | 139 | | ug/Kg dry | 24.0 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Phenol | < 92.6 | 185 | U | ug/Kg dry | 25.6 | 92.6 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| **Pyrene** | **828** | 139 | | ug/Kg dry | 25.5 | 69.5 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| Pyridine | < 1,850 | 3,710 | U | ug/Kg dry | 232 | 1,850 | 10/15/24 00:39 | B24J0296 | LP | 5 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 68%* | *Limits: 35-115* | | *10/15/24 00:39* | *B24J0296* | *LP* | 5 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 75%* | *Limits: 33-122* | | *10/15/24 00:39* | *B24J0296* | *LP* | 5 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 68%* | *Limits: 37-122* | | *10/15/24 00:39* | *B24J0296* | *LP* | 5 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 60%* | *Limits: 44-115* | | *10/15/24 00:39* | *B24J0296* | *LP* | 5 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 73%* | *Limits: 39-132* | | *10/15/24 00:39* | *B24J0296* | *LP* | 5 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 72%* | *Limits: 54-127* | | *10/15/24 00:39* | *B24J0296* | *LP* | 5 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.120 | 0.241 | U | mg/Kg dry | 0.0457 | 0.120 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.602 | 0.722 | U | mg/Kg dry | 0.262 | 0.602 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.722 | 0.963 | U | mg/Kg dry | 0.343 | 0.722 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.241 | 0.361 | U | mg/Kg dry | 0.0794 | 0.241 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.241 | 0.361 | U | mg/Kg dry | 0.0734 | 0.241 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.120 | 0.241 | U | mg/Kg dry | 0.0397 | 0.120 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.301 | 0.361 | U | mg/Kg dry | 0.141 | 0.301 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.120 | 0.361 | U | mg/Kg dry | 0.0325 | 0.120 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.241 | 0.361 | U | mg/Kg dry | 0.0662 | 0.241 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.722 | 0.963 | U | mg/Kg dry | 0.343 | 0.722 | 10/09/24 00:04 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 93%* | *Limits: 10-127* | | *10/09/24 00:04* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 62%* | *Limits: 44-130* | | *10/09/24 00:04* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| **4,4'-DDD** | **4.26** | 9.63 | J | ug/Kg dry | 1.83 | 4.81 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| **4,4'-DDE** | **14.0** | 4.81 | | ug/Kg dry | 1.19 | 2.41 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| **4,4'-DDT** | **3.39** | 9.63 | J | ug/Kg dry | 2.36 | 4.81 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.41 | 4.81 | U | ug/Kg dry | 0.714 | 2.41 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.41 | 4.81 | U | ug/Kg dry | 1.06 | 2.41 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.41 | 4.81 | U | ug/Kg dry | 0.850 | 2.41 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.81 | 9.63 | U | ug/Kg dry | 1.34 | 4.81 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:19
**Matrix:** Soil
**Lab ID:** O24J0276-12 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| Chlordane | < 24.1 | 48.1 | U | ug/Kg dry | 11.6 | 24.1 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.41 | 4.81 | U | ug/Kg dry | 1.13 | 2.41 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| **Dieldrin** | **4.28** | 4.81 | J | ug/Kg dry | 0.748 | 2.41 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.41 | 4.81 | U | ug/Kg dry | 1.15 | 2.41 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.41 | 4.81 | U | ug/Kg dry | 1.09 | 2.41 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.81 | 9.63 | U | ug/Kg dry | 1.27 | 4.81 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| Endrin | < 2.41 | 4.81 | U | ug/Kg dry | 0.867 | 2.41 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 4.81 | 9.63 | U | ug/Kg dry | 1.40 | 4.81 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.81 | 9.63 | U | ug/Kg dry | 1.49 | 4.81 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.41 | 4.81 | U | ug/Kg dry | 1.02 | 2.41 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.81 | 9.63 | U | ug/Kg dry | 2.06 | 4.81 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.41 | 4.81 | U | ug/Kg dry | 1.18 | 2.41 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.41 | 4.81 | U | ug/Kg dry | 1.32 | 2.41 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.81 | 9.63 | U | ug/Kg dry | 2.32 | 4.81 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| Toxaphene | < 301 | 602 | U | ug/Kg dry | 203 | 301 | 10/18/24 00:07 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 74%* | *Limits: 23-110* | | *10/18/24 00:07* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 80%* | *Limits: 42-129* | | *10/18/24 00:07* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **12,600** | 76.1 | D | mg/Kg dry | 10.5 | 60.8 | 10/09/24 16:16 | B24J0437 | CS2 | 10 |
| Antimony | < 1.22 | 1.52 | U | mg/Kg dry | 0.608 | 1.22 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Arsenic** | **4.15** | 1.52 | | mg/Kg dry | 0.438 | 1.22 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Barium** | **154** | 1.52 | | mg/Kg dry | 0.237 | 0.608 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.183** | 0.152 | | mg/Kg dry | 0.0365 | 0.122 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Cadmium** | **1.62** | 0.152 | | mg/Kg dry | 0.0304 | 0.0608 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Calcium** | **1,810** | 15.2 | B | mg/Kg dry | 6.08 | 12.2 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Chromium** | **165** | 1.52 | | mg/Kg dry | 0.420 | 1.22 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Cobalt** | **7.14** | 1.52 | | mg/Kg dry | 0.237 | 0.608 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Copper** | **24.7** | 1.52 | | mg/Kg dry | 0.359 | 1.22 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Iron** | **22,300** | 76.1 | D, B | mg/Kg dry | 36.5 | 73.0 | 10/09/24 16:16 | B24J0437 | CS2 | 10 |
| **Lead** | **694** | 1.52 | | mg/Kg dry | 0.365 | 1.22 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Magnesium** | **2,000** | 6.66 | | mg/Kg dry | 2.13 | 6.39 | 11/11/24 13:11 | B24K0386 | CS2 | 1 |
| **Manganese** | **181** | 1.52 | | mg/Kg dry | 0.256 | 0.608 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Nickel** | **13.0** | 1.52 | | mg/Kg dry | 0.268 | 0.608 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Potassium** | **763** | 154 | D | mg/Kg dry | 95.7 | 148 | 11/15/24 16:23 | B24K0661 | CS2 | 10 |
| Selenium | < 1.22 | 1.52 | U, Q | mg/Kg dry | 0.438 | 1.22 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-0-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:19
**Matrix:** Soil
**Lab ID:** O24J0276-12 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Metals by ICP-AES (Continued)*** | | | | | | | | | | |
| **Method: SW6010D / SW3050 (Continued)** | | | | | | | | | | |
| Silver | < 1.22 | 1.52 | U | mg/Kg dry | 0.304 | 1.22 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Sodium** | **68.6** | 13.3 | | mg/Kg dry | 6.39 | 12.8 | 11/11/24 13:11 | B24K0386 | CS2 | 1 |
| Thallium | < 1.22 | 1.52 | U | mg/Kg dry | 0.584 | 1.22 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Vanadium** | **18.7** | 1.52 | | mg/Kg dry | 0.207 | 0.608 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| **Zinc** | **636** | 6.08 | | mg/Kg dry | 1.31 | 3.04 | 10/09/24 14:31 | B24J0437 | CS2 | 1 |
| ***Metals by ICP-MS*** | | | | | | | | | | |
| **Method: SW6020B / SW1311 / SW3015** | | | | | | | | | | |
| **Chromium TCLP** | **0.0825** | 0.0250 | | mg/L | 0.00250 | 0.0100 | 03/14/25 19:49 | B25C0797 | MS6 | 5 |
| **Lead TCLP** | **2.91** | 0.00500 | | mg/L | 0.00150 | 0.00500 | 03/14/25 19:49 | B25C0797 | MS6 | 5 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| **Mercury** | **0.244** | 0.0570 | | mg/Kg dry | 0.0171 | 0.0342 | 10/15/24 12:06 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **80.1** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:08
**Matrix:** Soil
**Lab ID:** O24J0276-13

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 1.04 | 2.09 | U | ug/Kg dry | 0.422 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 1.04 | 2.09 | U | ug/Kg dry | 0.427 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 1.04 | 2.09 | U | ug/Kg dry | 0.372 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 1.04 | 2.09 | U | ug/Kg dry | 0.458 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,1-Dichloroethane | < 2.09 | 4.17 | U | ug/Kg dry | 0.566 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,1-Dichloroethene | < 1.04 | 2.09 | U | ug/Kg dry | 0.452 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,1-Dichloropropene | < 10.4 | 20.9 | U | ug/Kg dry | 2.96 | 10.4 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 20.9 | 41.7 | Q, U | ug/Kg dry | 6.76 | 20.9 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 10.4 | 20.9 | U | ug/Kg dry | 4.00 | 10.4 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 20.9 | 41.7 | U | ug/Kg dry | 6.64 | 20.9 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **1,2,4-Trimethylbenzene** | **1.95** | 8.35 | J | ug/Kg dry | 1.12 | 4.17 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 4.17 | 8.35 | U | ug/Kg dry | 1.73 | 4.17 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,2-Dibromoethane | < 1.04 | 2.09 | U | ug/Kg dry | 0.284 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 5.22 | 10.4 | U | ug/Kg dry | 1.83 | 5.22 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,2-Dichloroethane | < 1.04 | 2.09 | U | ug/Kg dry | 0.429 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,2-Dichloropropane | < 1.04 | 2.09 | U | ug/Kg dry | 0.504 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 2.09 | 4.17 | U | ug/Kg dry | 1.04 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 2.09 | 4.17 | U | ug/Kg dry | 0.748 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,3-Dichloropropane | < 1.04 | 2.09 | U | ug/Kg dry | 0.467 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,4-Dioxane | < 41.7 | 83.5 | U | ug/Kg dry | 16.0 | 41.7 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 5.22 | 10.4 | U | ug/Kg dry | 1.91 | 5.22 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1-Propanol | < 104 | 209 | Q, U | ug/Kg dry | 33.2 | 104 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 2,2-Dichloropropane | < 1.04 | 2.09 | U | ug/Kg dry | 0.345 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **2-Butanone** | **21.7** | 29.2 | J | ug/Kg dry | 7.11 | 14.6 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 52.2 | 104 | U | ug/Kg dry | 20.9 | 52.2 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 2-Chlorotoluene | < 2.09 | 4.17 | U | ug/Kg dry | 0.915 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 2-Hexanone | < 14.6 | 29.2 | U | ug/Kg dry | 5.54 | 14.6 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 4-Chlorotoluene | < 2.09 | 4.17 | U | ug/Kg dry | 0.914 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 4-Isopropyltoluene | < 4.17 | 8.35 | U | ug/Kg dry | 1.22 | 4.17 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 14.6 | 29.2 | U | ug/Kg dry | 4.26 | 14.6 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Acetone** | **297** | 73.0 | | ug/Kg dry | 12.6 | 36.5 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Acetonitrile | < 104 | 209 | U | ug/Kg dry | 32.6 | 104 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Acrolein | < 20.9 | 41.7 | U | ug/Kg dry | 8.76 | 20.9 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Acrylonitrile | < 2.09 | 4.17 | U | ug/Kg dry | 1.02 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Benzene** | **1.01** | 2.09 | J | ug/Kg dry | 0.301 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Bromobenzene | < 2.09 | 4.17 | U | ug/Kg dry | 0.587 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Bromochloromethane | < 2.09 | 4.17 | U | ug/Kg dry | 0.732 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:08
**Matrix:** Soil
**Lab ID:** O24J0276-13 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 1.04 | 2.09 | U | ug/Kg dry | 0.503 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Bromoform | < 2.09 | 4.17 | U | ug/Kg dry | 0.657 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Bromomethane | < 10.4 | 20.9 | U | ug/Kg dry | 2.51 | 10.4 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Carbon disulfide** | **4.88** | 4.17 | Q | ug/Kg dry | 0.628 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Carbon tetrachloride | < 10.4 | 20.9 | U | ug/Kg dry | 2.91 | 10.4 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Chlorobenzene | < 2.09 | 4.17 | U | ug/Kg dry | 0.543 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Chloroethane | < 4.17 | 8.35 | U | ug/Kg dry | 1.48 | 4.17 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Chloroform | < 2.09 | 4.17 | U | ug/Kg dry | 0.763 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Chloromethane | < 4.17 | 8.35 | U | ug/Kg dry | 1.52 | 4.17 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| cis-1,2-Dichloroethene | < 2.09 | 4.17 | U | ug/Kg dry | 0.595 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 2.09 | 4.17 | U | ug/Kg dry | 0.722 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Cyclohexane | < 5.22 | 10.4 | U | ug/Kg dry | 1.61 | 5.22 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Dibromochloromethane | < 1.04 | 2.09 | U | ug/Kg dry | 0.496 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Dibromomethane | < 1.04 | 2.09 | U | ug/Kg dry | 0.382 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Dichlorodifluoromethane | < 5.22 | 10.4 | U | ug/Kg dry | 1.26 | 5.22 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Ethylbenzene | < 4.17 | 8.35 | U | ug/Kg dry | 1.08 | 4.17 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Isobutanol | < 41.7 | 83.5 | U | ug/Kg dry | 11.1 | 41.7 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Isopropanol | < 41.7 | 83.5 | U | ug/Kg dry | 18.1 | 41.7 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Isopropylbenzene | < 2.09 | 4.17 | U | ug/Kg dry | 1.04 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| m,p-Xylene | < 4.17 | 8.35 | U | ug/Kg dry | 1.69 | 4.17 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Methyl tert-butyl ether | < 1.04 | 2.09 | U | ug/Kg dry | 0.349 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Methylene chloride | < 10.4 | 20.9 | U | ug/Kg dry | 4.10 | 10.4 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| n-Butylbenzene | < 10.4 | 20.9 | U | ug/Kg dry | 2.98 | 10.4 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| n-Propylbenzene | < 2.09 | 4.17 | U | ug/Kg dry | 0.998 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Naphthalene | < 20.9 | 41.7 | Q, U | ug/Kg dry | 10.4 | 20.9 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| o-Xylene | < 4.17 | 8.35 | U | ug/Kg dry | 1.07 | 4.17 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| sec-Butylbenzene | < 2.09 | 4.17 | U | ug/Kg dry | 1.02 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Styrene | < 4.17 | 8.35 | U | ug/Kg dry | 1.14 | 4.17 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| tert-Butylbenzene | < 2.09 | 4.17 | U | ug/Kg dry | 0.397 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Tetrachloroethene | < 2.09 | 4.17 | U | ug/Kg dry | 0.610 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Tetrahydrofuran | < 5.22 | 10.4 | U | ug/Kg dry | 1.50 | 5.22 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Toluene** | **1.79** | 2.09 | J | ug/Kg dry | 0.377 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 2.09 | 4.17 | U | ug/Kg dry | 0.966 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 2.09 | 4.17 | U | ug/Kg dry | 0.854 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Trichloroethene** | **1.36** | 2.09 | J | ug/Kg dry | 0.506 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Trichlorofluoromethane | < 1.04 | 2.09 | U | ug/Kg dry | 0.432 | 1.04 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Vinyl acetate | < 2.09 | 4.17 | U | ug/Kg dry | 0.532 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:08
**Matrix:** Soil
**Lab ID:** O24J0276-13 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 2.09 | 4.17 | U | ug/Kg dry | 0.745 | 2.09 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| Xylenes, Total | < 6.26 | 12.5 | U | ug/Kg dry | 2.67 | 6.26 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| 1,2-Dichloroethene, Total | < 4.17 | 8.35 | U | ug/Kg dry | 1.36 | 4.17 | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 102%* | *Limits: 78-119* | | *10/09/24 12:48* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 104%* | *Limits: 71-136* | | *10/09/24 12:48* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 97%* | *Limits: 81-114* | | *10/09/24 12:48* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 98%* | *Limits: 85-116* | | *10/09/24 12:48* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | *S* | *Recovery: 120%* | *Limits: 79-119* | | *10/09/24 12:48* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 105%* | *Limits: 78-121* | | *10/09/24 12:48* | *B24J0625* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **Butanal** | **6.93** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Butanal, 3-methyl-** | **2.52** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Butane** | **8.65** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Butane, 2-methyl-** | **5.18** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Heptanal** | **4.10** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Hexanal** | **45.3** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Nonanal** | **1.90** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Octanal** | **2.80** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Pentanal** | **12.4** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **Pentane** | **6.37** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **unknown** | **35.0** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **unknown (01)** | **9.77** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **unknown (02)** | **17.9** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **unknown (03)** | **3.05** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| **unknown (04)** | **2.09** | | | ug/Kg | | | 10/09/24 12:48 | B24J0625 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| **1-Methylnaphthalene** | **181** | 18.1 | | ug/Kg dry | 2.88 | 9.03 | 10/11/24 18:44 | B24J0527 | MS5 | 1 |
| **2-Methylnaphthalene** | **241** | 18.1 | | ug/Kg dry | 3.06 | 9.03 | 10/11/24 18:44 | B24J0527 | MS5 | 1 |
| **Acenaphthene** | **2,320** | 18.1 | | ug/Kg dry | 3.30 | 9.03 | 10/11/24 18:44 | B24J0527 | MS5 | 1 |
| **Acenaphthylene** | **78.3** | 18.1 | | ug/Kg dry | 4.90 | 11.3 | 10/11/24 18:44 | B24J0527 | MS5 | 1 |
| **Anthracene** | **3,470** | 18.1 | | ug/Kg dry | 4.60 | 11.3 | 10/11/24 18:44 | B24J0527 | MS5 | 1 |
| **Benzo(a)anthracene** | **9,400** | 181 | D | ug/Kg dry | 36.0 | 90.3 | 10/15/24 17:42 | B24J0527 | MS5 | 10 |
| **Benzo(a)pyrene** | **9,500** | 181 | D | ug/Kg dry | 27.5 | 90.3 | 10/15/24 17:42 | B24J0527 | MS5 | 10 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:08
**Matrix:** Soil
**Lab ID:** O24J0276-13 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270D SIM / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Benzo(b)fluoranthene** | **14,000** | 181 | D | ug/Kg dry | 58.1 | 113 | 10/15/24 17:42 | B24J0527 | MS5 | 10 |
| **Benzo(g,h,i)perylene** | **4,990** | 18.1 | | ug/Kg dry | 5.63 | 11.3 | 10/11/24 18:44 | B24J0527 | MS5 | 1 |
| **Benzo(k)fluoranthene** | **3,940** | 18.1 | | ug/Kg dry | 4.71 | 11.3 | 10/11/24 18:44 | B24J0527 | MS5 | 1 |
| **Chrysene** | **11,000** | 181 | D | ug/Kg dry | 38.0 | 90.3 | 10/15/24 17:42 | B24J0527 | MS5 | 10 |
| **Dibenzo(a,h)anthracene** | **1,270** | 18.1 | | ug/Kg dry | 4.56 | 11.3 | 10/11/24 18:44 | B24J0527 | MS5 | 1 |
| **Fluoranthene** | **27,000** | 181 | D | ug/Kg dry | 56.2 | 113 | 10/15/24 17:42 | B24J0527 | MS5 | 10 |
| **Fluorene** | **1,720** | 18.1 | | ug/Kg dry | 4.31 | 9.03 | 10/11/24 18:44 | B24J0527 | MS5 | 1 |
| **Indeno(1,2,3-cd)pyrene** | **5,880** | 18.1 | | ug/Kg dry | 4.59 | 11.3 | 10/11/24 18:44 | B24J0527 | MS5 | 1 |
| **Naphthalene** | **482** | 18.1 | | ug/Kg dry | 5.41 | 11.3 | 10/11/24 18:44 | B24J0527 | MS5 | 1 |
| **Phenanthrene** | **21,000** | 181 | D | ug/Kg dry | 44.3 | 90.3 | 10/15/24 17:42 | B24J0527 | MS5 | 10 |
| **Pyrene** | **20,600** | 181 | D | ug/Kg dry | 24.7 | 113 | 10/15/24 17:42 | B24J0527 | MS5 | 10 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 86%* | *Limits: 57-119* | | *10/11/24 18:44* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 79%* | *Limits: 54-133* | | *10/11/24 18:44* | *B24J0527* | *MS5* | 1 |

**Method: SW8270E / SW3550**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 98.1 | 147 | U | ug/Kg dry | 27.7 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 1,2-Dichlorobenzene | < 98.1 | 147 | U | ug/Kg dry | 25.5 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 1,3-Dichlorobenzene | < 73.6 | 147 | U | ug/Kg dry | 24.3 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 1,4-Dichlorobenzene | < 98.1 | 147 | U | ug/Kg dry | 23.3 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **1-Methylnaphthalene** | **170** | 147 | | ug/Kg dry | 27.6 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2,4,5-Trichlorophenol | < 49.0 | 98.1 | U | ug/Kg dry | 17.4 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2,4,6-Trichlorophenol | < 49.0 | 98.1 | U | ug/Kg dry | 32.5 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2,4-Dichlorophenol | < 49.0 | 98.1 | U | ug/Kg dry | 15.7 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2,4-Dimethylphenol | < 147 | 294 | U | ug/Kg dry | 20.2 | 147 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2,4-Dinitrophenol | < 1,470 | 2,450 | U | ug/Kg dry | 333 | 1,470 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2,4-Dinitrotoluene | < 98.1 | 147 | U | ug/Kg dry | 32.3 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2,6-Dichlorophenol | < 49.0 | 98.1 | U | ug/Kg dry | 15.5 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2,6-Dinitrotoluene | < 49.0 | 98.1 | U | ug/Kg dry | 17.5 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2-Chloronaphthalene | < 49.0 | 98.1 | U | ug/Kg dry | 20.8 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2-Chlorophenol | < 49.0 | 98.1 | U | ug/Kg dry | 21.9 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **2-Methylnaphthalene** | **271** | 147 | | ug/Kg dry | 23.9 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2-Methylphenol | < 24.5 | 49.0 | U | ug/Kg dry | 11.3 | 24.5 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2-Nitroaniline | < 98.1 | 147 | U | ug/Kg dry | 29.8 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 2-Nitrophenol | < 98.1 | 147 | U | ug/Kg dry | 41.1 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 3,3´-Dichlorobenzidine | < 294 | 588 | U | ug/Kg dry | 93.4 | 294 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 3 & 4-Methylphenol | < 98.1 | 196 | U | ug/Kg dry | 38.3 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 3-Nitroaniline | < 98.1 | 147 | U | ug/Kg dry | 52.2 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:08
**Matrix:** Soil
**Lab ID:** O24J0276-13 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | < 1,960 | 3,920 | U | ug/Kg dry | 579 | 1,960 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 4-Bromophenyl-phenylether | < 73.6 | 147 | U | ug/Kg dry | 26.0 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 4-Chloro-3-methylphenol | < 49.0 | 98.1 | U | ug/Kg dry | 13.5 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 4-Chloroaniline | < 73.6 | 147 | U | ug/Kg dry | 23.6 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 4-Chlorophenyl-phenylether | < 73.6 | 147 | U | ug/Kg dry | 24.9 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 4-Nitroaniline | < 98.1 | 196 | U | ug/Kg dry | 19.5 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| 4-Nitrophenol | < 1,960 | 3,920 | U | ug/Kg dry | 651 | 1,960 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Acenaphthene** | **2,320** | 98.1 | | ug/Kg dry | 19.7 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Acenaphthylene** | **70.3** | 98.1 | J | ug/Kg dry | 22.1 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Aniline | < 588 | 981 | U | ug/Kg dry | 34.7 | 588 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Anthracene** | **3,730** | 147 | | ug/Kg dry | 28.3 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Azobenzene as 1,2-Diphenylhydrazine | < 49.0 | 98.1 | U | ug/Kg dry | 14.0 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Benzidine | < 3,920 | 16,300 | U | ug/Kg dry | 832 | 3,920 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Benzo(a)anthracene** | **8,270** | 147 | | ug/Kg dry | 24.6 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Benzo(a)pyrene** | **7,540** | 392 | | ug/Kg dry | 30.1 | 196 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Benzo(b)fluoranthene** | **11,200** | 147 | | ug/Kg dry | 39.3 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Benzo(g,h,i)perylene** | **5,090** | 196 | | ug/Kg dry | 21.8 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Benzo(k)fluoranthene** | **3,580** | 196 | | ug/Kg dry | 23.9 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Benzoic acid | < 1,960 | 7,850 | U | ug/Kg dry | 488 | 1,960 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Benzyl alcohol | < 73.6 | 147 | U | ug/Kg dry | 25.2 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Bis(2-chloroethoxy)methane | < 49.0 | 98.1 | U | ug/Kg dry | 21.5 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Bis(2-chloroethyl)ether | < 1,960 | 2,450 | U | ug/Kg dry | 260 | 1,960 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Bis(2-ethylhexyl)phthalate | < 588 | 981 | U | ug/Kg dry | 166 | 588 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Butyl benzyl phthalate | < 147 | 294 | U | ug/Kg dry | 40.6 | 147 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Carbazole** | **3,380** | 98.1 | | ug/Kg dry | 16.5 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Chrysene** | **8,670** | 98.1 | | ug/Kg dry | 15.6 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Dibenzo(a,h)anthracene** | **1,240** | 147 | | ug/Kg dry | 59.6 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Dibenzofuran** | **1,080** | 147 | | ug/Kg dry | 21.8 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Diethyl phthalate | < 588 | 981 | U | ug/Kg dry | 169 | 588 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Dimethyl phthalate | < 49.0 | 98.1 | U | ug/Kg dry | 19.7 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Di-n-butyl phthalate | < 147 | 294 | U | ug/Kg dry | 54.5 | 147 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Di-n-octyl phthalate | < 98.1 | 147 | U | ug/Kg dry | 35.9 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Fluoranthene** | **22,300** | 294 | | ug/Kg dry | 63.6 | 196 | 10/16/24 19:12 | B24J0296 | LP | 10 |
| **Fluorene** | **1,780** | 98.1 | | ug/Kg dry | 19.3 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Hexachlorobenzene | < 49.0 | 98.1 | U | ug/Kg dry | 18.9 | 49.0 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Hexachlorobutadiene | < 98.1 | 196 | U | ug/Kg dry | 30.2 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Hexachlorocyclopentadiene | < 1,960 | 3,920 | U | ug/Kg dry | 369 | 1,960 | 10/15/24 00:59 | B24J0296 | LP | 5 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:08
**Matrix:** Soil
**Lab ID:** O24J0276-13 (Continued)

**Sterling Labs**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| Hexachloroethane | < 98.1 | 196 | U | ug/Kg dry | 26.9 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Indeno(1,2,3-cd)pyrene** | **5,490** | 147 | | ug/Kg dry | 38.9 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Isophorone | < 73.6 | 147 | U | ug/Kg dry | 18.8 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Naphthalene** | **551** | 147 | | ug/Kg dry | 28.2 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Nitrobenzene | < 98.1 | 196 | U | ug/Kg dry | 25.4 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| N-Nitrosodimethylamine | < 98.1 | 196 | U | ug/Kg dry | 37.1 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| N-Nitrosodi-n-propylamine | < 147 | 294 | U | ug/Kg dry | 46.0 | 147 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| N-Nitrosodiphenylamine | < 98.1 | 147 | U | ug/Kg dry | 34.0 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| N-Nitrosopyrrolidine | < 98.1 | 147 | U | ug/Kg dry | 32.9 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Pentachlorophenol | < 1,470 | 2,450 | U | ug/Kg dry | 264 | 1,470 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Phenanthrene** | **19,100** | 147 | | ug/Kg dry | 25.4 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Phenol | < 98.1 | 196 | U | ug/Kg dry | 27.1 | 98.1 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| **Pyrene** | **16,400** | 147 | | ug/Kg dry | 27.0 | 73.6 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| Pyridine | < 1,960 | 3,920 | U | ug/Kg dry | 245 | 1,960 | 10/15/24 00:59 | B24J0296 | LP | 5 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 72%* | *Limits: 35-115* | | *10/15/24 00:59* | *B24J0296* | *LP* | 5 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 80%* | *Limits: 33-122* | | *10/15/24 00:59* | *B24J0296* | *LP* | 5 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 78%* | *Limits: 37-122* | | *10/15/24 00:59* | *B24J0296* | *LP* | 5 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 80%* | *Limits: 44-115* | | *10/15/24 00:59* | *B24J0296* | *LP* | 5 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 83%* | *Limits: 39-132* | | *10/15/24 00:59* | *B24J0296* | *LP* | 5 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 86%* | *Limits: 54-127* | | *10/15/24 00:59* | *B24J0296* | *LP* | 5 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.129 | 0.258 | U | mg/Kg dry | 0.0490 | 0.129 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.645 | 0.774 | U | mg/Kg dry | 0.281 | 0.645 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.774 | 1.03 | U | mg/Kg dry | 0.368 | 0.774 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.258 | 0.387 | U | mg/Kg dry | 0.0851 | 0.258 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.258 | 0.387 | U | mg/Kg dry | 0.0787 | 0.258 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.129 | 0.258 | U | mg/Kg dry | 0.0426 | 0.129 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.323 | 0.387 | U | mg/Kg dry | 0.151 | 0.323 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.129 | 0.387 | U | mg/Kg dry | 0.0348 | 0.129 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.258 | 0.387 | U | mg/Kg dry | 0.0710 | 0.258 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.774 | 1.03 | U | mg/Kg dry | 0.368 | 0.774 | 10/09/24 00:21 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 91%* | *Limits: 10-127* | | *10/09/24 00:21* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 60%* | *Limits: 44-130* | | *10/09/24 00:21* | *B24J0270* | *AY1* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:08
**Matrix:** Soil
**Lab ID:** O24J0276-13 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 5.16 | 10.3 | U | ug/Kg dry | 1.96 | 5.16 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| **4,4'-DDE** | **13.9** | 5.16 | | ug/Kg dry | 1.27 | 2.58 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| **4,4'-DDT** | **13.1** | 10.3 | | ug/Kg dry | 2.54 | 5.16 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.58 | 5.16 | U | ug/Kg dry | 0.766 | 2.58 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.58 | 5.16 | U | ug/Kg dry | 1.14 | 2.58 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| **alpha-Chlordane** | **1.77** | 5.16 | J | ug/Kg dry | 0.912 | 2.58 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| beta-BHC | < 5.16 | 10.3 | U | ug/Kg dry | 1.44 | 5.16 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| **Chlordane** | **13.4** | 51.6 | J | ug/Kg dry | 12.5 | 25.8 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.58 | 5.16 | U | ug/Kg dry | 1.21 | 2.58 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| **Dieldrin** | **84.9** | 5.16 | | ug/Kg dry | 0.802 | 2.58 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.58 | 5.16 | U | ug/Kg dry | 1.23 | 2.58 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.58 | 5.16 | U | ug/Kg dry | 1.17 | 2.58 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 5.16 | 10.3 | U | ug/Kg dry | 1.36 | 5.16 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| Endrin | < 2.58 | 5.16 | U | ug/Kg dry | 0.930 | 2.58 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 5.16 | 10.3 | U | ug/Kg dry | 1.50 | 5.16 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 5.16 | 10.3 | U | ug/Kg dry | 1.59 | 5.16 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.58 | 5.16 | U | ug/Kg dry | 1.10 | 2.58 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 5.16 | 10.3 | U | ug/Kg dry | 2.21 | 5.16 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.58 | 5.16 | U | ug/Kg dry | 1.26 | 2.58 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.58 | 5.16 | U | ug/Kg dry | 1.42 | 2.58 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 5.16 | 10.3 | U | ug/Kg dry | 2.48 | 5.16 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Toxaphene | < 323 | 645 | U | ug/Kg dry | 217 | 323 | 10/18/24 00:23 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 77%* | *Limits: 23-110* | | *10/18/24 00:23* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 80%* | *Limits: 42-129* | | *10/18/24 00:23* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **17,400** | 72.0 | D | mg/Kg dry | 9.96 | 57.6 | 10/09/24 16:20 | B24J0437 | CS2 | 10 |
| Antimony | < 1.15 | 1.44 | U | mg/Kg dry | 0.576 | 1.15 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Arsenic** | **7.64** | 1.44 | | mg/Kg dry | 0.415 | 1.15 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Barium** | **143** | 1.44 | | mg/Kg dry | 0.225 | 0.576 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.360** | 0.144 | | mg/Kg dry | 0.0345 | 0.115 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.570** | 0.144 | | mg/Kg dry | 0.0288 | 0.0576 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Calcium** | **48,900** | 144 | D, B | mg/Kg dry | 57.6 | 115 | 10/09/24 16:20 | B24J0437 | CS2 | 10 |
| **Chromium** | **20.8** | 1.44 | | mg/Kg dry | 0.397 | 1.15 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Cobalt** | **7.09** | 1.44 | | mg/Kg dry | 0.225 | 0.576 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Copper** | **19.5** | 1.44 | | mg/Kg dry | 0.340 | 1.15 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** DUP-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 11:08
**Matrix:** Soil
**Lab ID:** O24J0276-13 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Metals by ICP-AES (Continued)*** | | | | | | | | | | |
| **Method: SW6010D / SW3050 (Continued)** | | | | | | | | | | |
| **Iron** | **23,500** | 72.0 | D, B | mg/Kg dry | 34.5 | 69.1 | 10/09/24 16:20 | B24J0437 | CS2 | 10 |
| **Lead** | **52.6** | 1.44 | | mg/Kg dry | 0.345 | 1.15 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Magnesium** | **3,880** | 6.93 | | mg/Kg dry | 2.22 | 6.65 | 11/11/24 13:15 | B24K0386 | CS2 | 1 |
| **Manganese** | **527** | 1.44 | | mg/Kg dry | 0.242 | 0.576 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Nickel** | **16.8** | 1.44 | | mg/Kg dry | 0.253 | 0.576 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Potassium** | **1,500** | 15.2 | | mg/Kg dry | 9.45 | 14.6 | 11/15/24 16:27 | B24K0661 | CS2 | 1 |
| Selenium | < 1.15 | 1.44 | Q, U | mg/Kg dry | 0.415 | 1.15 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| Silver | < 1.15 | 1.44 | U | mg/Kg dry | 0.288 | 1.15 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Sodium** | **76.3** | 13.9 | | mg/Kg dry | 6.65 | 13.3 | 11/11/24 13:15 | B24K0386 | CS2 | 1 |
| Thallium | < 1.15 | 1.44 | U | mg/Kg dry | 0.553 | 1.15 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Vanadium** | **28.0** | 1.44 | | mg/Kg dry | 0.196 | 0.576 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| **Zinc** | **91.4** | 5.76 | | mg/Kg dry | 1.24 | 2.88 | 10/09/24 14:36 | B24J0437 | CS2 | 1 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| **Mercury** | **0.0276** | 0.0615 | J | mg/Kg dry | 0.0184 | 0.0369 | 10/15/24 12:08 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **76.2** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-6-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:57
**Matrix:** Soil
**Lab ID:** O24J0276-14

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.928 | 1.86 | U | ug/Kg dry | 0.376 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.928 | 1.86 | U | ug/Kg dry | 0.380 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.928 | 1.86 | U | ug/Kg dry | 0.331 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.928 | 1.86 | U | ug/Kg dry | 0.407 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.86 | 3.71 | U | ug/Kg dry | 0.504 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,1-Dichloroethene | < 0.928 | 1.86 | U | ug/Kg dry | 0.402 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,1-Dichloropropene | < 9.28 | 18.6 | U | ug/Kg dry | 2.63 | 9.28 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 18.6 | 37.1 | Q, U | ug/Kg dry | 6.01 | 18.6 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 9.28 | 18.6 | U | ug/Kg dry | 3.55 | 9.28 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 18.6 | 37.1 | U | ug/Kg dry | 5.90 | 18.6 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **1,2,4-Trimethylbenzene** | **41.5** | 7.42 | | ug/Kg dry | 0.999 | 3.71 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.71 | 7.42 | U | ug/Kg dry | 1.54 | 3.71 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.928 | 1.86 | U | ug/Kg dry | 0.252 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 4.64 | 9.28 | U | ug/Kg dry | 1.62 | 4.64 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.928 | 1.86 | U | ug/Kg dry | 0.381 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.928 | 1.86 | U | ug/Kg dry | 0.448 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.86 | 3.71 | U | ug/Kg dry | 0.927 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.86 | 3.71 | U | ug/Kg dry | 0.665 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.928 | 1.86 | U | ug/Kg dry | 0.415 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,4-Dioxane | < 37.1 | 74.2 | U | ug/Kg dry | 14.2 | 37.1 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 4.64 | 9.28 | U | ug/Kg dry | 1.70 | 4.64 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 1-Propanol | < 92.8 | 186 | Q, U | ug/Kg dry | 29.5 | 92.8 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.928 | 1.86 | U | ug/Kg dry | 0.307 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 2-Butanone | < 13.0 | 26.0 | U | ug/Kg dry | 6.32 | 13.0 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 46.4 | 92.8 | U | ug/Kg dry | 18.6 | 46.4 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 2-Chlorotoluene | < 1.86 | 3.71 | U | ug/Kg dry | 0.813 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 2-Hexanone | < 13.0 | 26.0 | U | ug/Kg dry | 4.92 | 13.0 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 4-Chlorotoluene | < 1.86 | 3.71 | U | ug/Kg dry | 0.813 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **4-Isopropyltoluene** | **73.2** | 7.42 | | ug/Kg dry | 1.09 | 3.71 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 13.0 | 26.0 | U | ug/Kg dry | 3.78 | 13.0 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Acetone** | **20.5** | 64.9 | J | ug/Kg dry | 11.2 | 32.5 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Acetonitrile | < 92.8 | 186 | U | ug/Kg dry | 28.9 | 92.8 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Acrolein | < 18.6 | 37.1 | U | ug/Kg dry | 7.79 | 18.6 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Acrylonitrile | < 1.86 | 3.71 | U | ug/Kg dry | 0.909 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Benzene** | **35.6** | 1.86 | | ug/Kg dry | 0.267 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Bromobenzene | < 1.86 | 3.71 | U | ug/Kg dry | 0.522 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Bromochloromethane | < 1.86 | 3.71 | U | ug/Kg dry | 0.651 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-6-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:57
**Matrix:** Soil
**Lab ID:** O24J0276-14 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.928 | 1.86 | U | ug/Kg dry | 0.447 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Bromoform | < 1.86 | 3.71 | U | ug/Kg dry | 0.584 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Bromomethane | < 9.28 | 18.6 | U | ug/Kg dry | 2.23 | 9.28 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Carbon disulfide** | **2.61** | 3.71 | Q, J | ug/Kg dry | 0.558 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Carbon tetrachloride | < 9.28 | 18.6 | U | ug/Kg dry | 2.59 | 9.28 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Chlorobenzene | < 1.86 | 3.71 | U | ug/Kg dry | 0.482 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Chloroethane | < 3.71 | 7.42 | U | ug/Kg dry | 1.31 | 3.71 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Chloroform | < 1.86 | 3.71 | U | ug/Kg dry | 0.678 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Chloromethane | < 3.71 | 7.42 | U | ug/Kg dry | 1.35 | 3.71 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **cis-1,2-Dichloroethene** | **5.52** | 3.71 | | ug/Kg dry | 0.529 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| cis-1,3-Dichloropropene | < 1.86 | 3.71 | U | ug/Kg dry | 0.642 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Cyclohexane** | **423** | 48.5 | | ug/Kg dry | 6.40 | 24.3 | 10/15/24 11:57 | B24J0919 | TC1 | 50 |
| Dibromochloromethane | < 0.928 | 1.86 | U | ug/Kg dry | 0.441 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Dibromomethane | < 0.928 | 1.86 | U | ug/Kg dry | 0.339 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Dichlorodifluoromethane | < 4.64 | 9.28 | U | ug/Kg dry | 1.12 | 4.64 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Ethylbenzene** | **1,820** | 121 | | ug/Kg dry | 28.5 | 60.6 | 10/15/24 11:57 | B24J0919 | TC1 | 50 |
| Isobutanol | < 37.1 | 74.2 | U | ug/Kg dry | 9.87 | 37.1 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Isopropanol | < 37.1 | 74.2 | U | ug/Kg dry | 16.1 | 37.1 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Isopropylbenzene** | **173** | 3.71 | | ug/Kg dry | 0.922 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **m,p-Xylene** | **154** | 7.42 | | ug/Kg dry | 1.50 | 3.71 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.928 | 1.86 | U | ug/Kg dry | 0.310 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Methylene chloride | < 9.28 | 18.6 | U | ug/Kg dry | 3.65 | 9.28 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **n-Butylbenzene** | **1,140** | 60.6 | | ug/Kg dry | 7.19 | 30.3 | 10/15/24 11:57 | B24J0919 | TC1 | 50 |
| **n-Propylbenzene** | **962** | 24.3 | | ug/Kg dry | 3.23 | 12.1 | 10/15/24 11:57 | B24J0919 | TC1 | 50 |
| **Naphthalene** | **41.8** | 37.1 | Q | ug/Kg dry | 9.21 | 18.6 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **o-Xylene** | **34.0** | 7.42 | | ug/Kg dry | 0.947 | 3.71 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **sec-Butylbenzene** | **126** | 3.71 | | ug/Kg dry | 0.910 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Styrene | < 3.71 | 7.42 | U | ug/Kg dry | 1.02 | 3.71 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **tert-Butylbenzene** | **26.2** | 3.71 | | ug/Kg dry | 0.352 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Tetrachloroethene** | **4.79** | 3.71 | | ug/Kg dry | 0.542 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Tetrahydrofuran | < 4.64 | 9.28 | U | ug/Kg dry | 1.34 | 4.64 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Toluene** | **46.2** | 1.86 | | ug/Kg dry | 0.335 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 1.86 | 3.71 | U | ug/Kg dry | 0.859 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.86 | 3.71 | U | ug/Kg dry | 0.759 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Trichloroethene** | **19.9** | 1.86 | | ug/Kg dry | 0.450 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Trichlorofluoromethane | < 0.928 | 1.86 | U | ug/Kg dry | 0.384 | 0.928 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| Vinyl acetate | < 1.86 | 3.71 | U | ug/Kg dry | 0.473 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-6-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:57
**Matrix:** Soil
**Lab ID:** O24J0276-14 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| **Vinyl chloride** | **138** | 3.71 | | ug/Kg dry | 0.663 | 1.86 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Xylenes, Total** | **188** | 11.1 | | ug/Kg dry | 2.38 | 5.57 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **1,2-Dichloroethene, Total** | **5.52** | 7.42 | J | ug/Kg dry | 1.21 | 3.71 | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 107%* | *Limits: 78-119* | | *10/09/24 13:17* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 109%* | *Limits: 71-136* | | *10/09/24 13:17* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 99%* | *Limits: 81-114* | | *10/09/24 13:17* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | *S* | *Recovery: 136%* | *Limits: 85-116* | | *10/09/24 13:17* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 92%* | *Limits: 79-119* | | *10/09/24 13:17* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | *S* | *Recovery: 150%* | *Limits: 78-121* | | *10/09/24 13:17* | *B24J0625* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **Acetic acid, trifluoro-, no...** | **26.6** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Cyclohexane, (1-methylethyl)-** | **110** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Cyclohexane, 1,1,3-trimethyl-** | **42.5** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Cyclohexane, 1,1-dimethyl-** | **24.0** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Cyclohexane, 1,2,4-trimethy...** | **26.8** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Cyclohexane, 1,2-dimethyl- ...** | **35.0** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Cyclohexane, ethyl-** | **45.5** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Cyclohexane, methyl-** | **134** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Decane** | **45.5** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Heptane, 2,6-dimethyl-** | **26.4** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Heptane, 2-methyl-** | **50.1** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Heptane, 3-methyl-** | **54.3** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Hexane, 3-methyl-** | **30.8** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Nonane, 3-methyl-** | **90.6** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Octane** | **53.6** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Octane, 3-methyl-** | **60.0** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Octane, 4-methyl-** | **53.1** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **Undecane** | **52.5** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **unknown** | **53.4** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| **unknown (01)** | **54.4** | | | ug/Kg | | | 10/09/24 13:17 | B24J0625 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| **1-Methylnaphthalene** | **5.81** | 19.1 | J | ug/Kg dry | 3.04 | 9.55 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 9.55 | 19.1 | U | ug/Kg dry | 3.24 | 9.55 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-6-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:57
**Matrix:** Soil
**Lab ID:** O24J0276-14 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550 (Continued)** | | | | | | | | | | |
| Acenaphthene | < 9.55 | 19.1 | U | ug/Kg dry | 3.48 | 9.55 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 11.9 | 19.1 | U | ug/Kg dry | 5.18 | 11.9 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| Anthracene | < 11.9 | 19.1 | U | ug/Kg dry | 4.87 | 11.9 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| **Benzo(a)anthracene** | **8.08** | 19.1 | J | ug/Kg dry | 3.81 | 9.55 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| **Benzo(a)pyrene** | **4.89** | 19.1 | J | ug/Kg dry | 2.91 | 9.55 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 11.9 | 19.1 | U | ug/Kg dry | 6.15 | 11.9 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 11.9 | 19.1 | U | ug/Kg dry | 5.96 | 11.9 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 11.9 | 19.1 | U | ug/Kg dry | 4.98 | 11.9 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| **Chrysene** | **11.5** | 19.1 | J | ug/Kg dry | 4.01 | 9.55 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 11.9 | 19.1 | U | ug/Kg dry | 4.82 | 11.9 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| **Fluoranthene** | **9.11** | 19.1 | J | ug/Kg dry | 5.94 | 11.9 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| Fluorene | < 9.55 | 19.1 | U | ug/Kg dry | 4.55 | 9.55 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| Indeno(1,2,3-cd)pyrene | < 11.9 | 19.1 | U | ug/Kg dry | 4.85 | 11.9 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| Naphthalene | < 11.9 | 19.1 | U | ug/Kg dry | 5.72 | 11.9 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| **Phenanthrene** | **5.61** | 19.1 | J | ug/Kg dry | 4.69 | 9.55 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| **Pyrene** | **4.57** | 19.1 | J | ug/Kg dry | 2.61 | 11.9 | 10/11/24 19:05 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 86%* | *Limits: 57-119* | | *10/11/24 19:05* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 80%* | *Limits: 54-133* | | *10/11/24 19:05* | *B24J0527* | *MS5* | 1 |
| **Method: SW8270E / SW3550** | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | < 18.7 | 28.0 | U | ug/Kg dry | 5.27 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 18.7 | 28.0 | U | ug/Kg dry | 4.86 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 14.0 | 28.0 | U | ug/Kg dry | 4.62 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 18.7 | 28.0 | U | ug/Kg dry | 4.43 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 14.0 | 28.0 | U | ug/Kg dry | 5.25 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 9.33 | 18.7 | U | ug/Kg dry | 3.31 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 9.33 | 18.7 | U | ug/Kg dry | 6.17 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 9.33 | 18.7 | U | ug/Kg dry | 2.98 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 28.0 | 56.0 | U | ug/Kg dry | 3.85 | 28.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 280 | 466 | U | ug/Kg dry | 63.4 | 280 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 18.7 | 28.0 | U | ug/Kg dry | 6.15 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 9.33 | 18.7 | U | ug/Kg dry | 2.94 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 9.33 | 18.7 | U | ug/Kg dry | 3.32 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 9.33 | 18.7 | U | ug/Kg dry | 3.96 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 9.33 | 18.7 | U | ug/Kg dry | 4.16 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 14.0 | 28.0 | U | ug/Kg dry | 4.55 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.66 | 9.33 | U | ug/Kg dry | 2.14 | 4.66 | 10/15/24 01:41 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-6-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:57
**Matrix:** Soil
**Lab ID:** O24J0276-14 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-Nitroaniline | < 18.7 | 28.0 | U | ug/Kg dry | 5.68 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 18.7 | 28.0 | U | ug/Kg dry | 7.82 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 56.0 | 112 | U | ug/Kg dry | 17.8 | 56.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 18.7 | 37.3 | U | ug/Kg dry | 7.28 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 18.7 | 28.0 | U | ug/Kg dry | 9.93 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 373 | 746 | U | ug/Kg dry | 110 | 373 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 14.0 | 28.0 | U | ug/Kg dry | 4.94 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 9.33 | 18.7 | U | ug/Kg dry | 2.56 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 14.0 | 28.0 | U | ug/Kg dry | 4.48 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 14.0 | 28.0 | U | ug/Kg dry | 4.73 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 18.7 | 37.3 | U | ug/Kg dry | 3.70 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 373 | 746 | U | ug/Kg dry | 124 | 373 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Acenaphthene | < 9.33 | 18.7 | U | ug/Kg dry | 3.74 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Acenaphthylene | < 9.33 | 18.7 | U | ug/Kg dry | 4.21 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Aniline | < 112 | 187 | U | ug/Kg dry | 6.59 | 112 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Anthracene | < 14.0 | 28.0 | U | ug/Kg dry | 5.38 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 9.33 | 18.7 | U | ug/Kg dry | 2.67 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Benzidine | < 746 | 3,110 | U | ug/Kg dry | 158 | 746 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 14.0 | 28.0 | U | ug/Kg dry | 4.68 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 37.3 | 74.6 | U | ug/Kg dry | 5.72 | 37.3 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Benzo(b)fluoranthene | < 18.7 | 28.0 | U | ug/Kg dry | 7.48 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 18.7 | 37.3 | U | ug/Kg dry | 4.15 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 18.7 | 37.3 | U | ug/Kg dry | 4.55 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Benzoic acid | < 373 | 1,490 | U | ug/Kg dry | 92.7 | 373 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 14.0 | 28.0 | U | ug/Kg dry | 4.79 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 9.33 | 18.7 | U | ug/Kg dry | 4.08 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 373 | 466 | U | ug/Kg dry | 49.4 | 373 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 112 | 187 | U | ug/Kg dry | 31.6 | 112 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 28.0 | 56.0 | U | ug/Kg dry | 7.73 | 28.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Carbazole | < 9.33 | 18.7 | U | ug/Kg dry | 3.14 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Chrysene | < 9.33 | 18.7 | U | ug/Kg dry | 2.97 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 14.0 | 28.0 | U | ug/Kg dry | 11.3 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Dibenzofuran | < 14.0 | 28.0 | U | ug/Kg dry | 4.15 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 112 | 187 | U | ug/Kg dry | 32.2 | 112 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 9.33 | 18.7 | U | ug/Kg dry | 3.74 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 28.0 | 56.0 | U | ug/Kg dry | 10.4 | 28.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 18.7 | 28.0 | U | ug/Kg dry | 6.83 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-6-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:57
**Matrix:** Soil
**Lab ID:** O24J0276-14 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| Fluoranthene | < 18.7 | 28.0 | U | ug/Kg dry | 6.05 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Fluorene | < 9.33 | 18.7 | U | ug/Kg dry | 3.67 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 9.33 | 18.7 | U | ug/Kg dry | 3.59 | 9.33 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 18.7 | 37.3 | U | ug/Kg dry | 5.74 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 373 | 746 | U | ug/Kg dry | 70.1 | 373 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Hexachloroethane | < 18.7 | 37.3 | U | ug/Kg dry | 5.12 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 18.7 | 28.0 | U | ug/Kg dry | 7.39 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Isophorone | < 14.0 | 28.0 | U | ug/Kg dry | 3.57 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Naphthalene | < 18.7 | 28.0 | U | ug/Kg dry | 5.36 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Nitrobenzene | < 18.7 | 37.3 | U | ug/Kg dry | 4.84 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 18.7 | 37.3 | U | ug/Kg dry | 7.06 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 28.0 | 56.0 | U | ug/Kg dry | 8.75 | 28.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| N-Nitrosodiphenylamine | < 18.7 | 28.0 | U | ug/Kg dry | 6.47 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 18.7 | 28.0 | U | ug/Kg dry | 6.26 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 280 | 466 | U | ug/Kg dry | 50.2 | 280 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Phenanthrene | < 14.0 | 28.0 | U | ug/Kg dry | 4.84 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Phenol | < 18.7 | 37.3 | U | ug/Kg dry | 5.15 | 18.7 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Pyrene | < 14.0 | 28.0 | U | ug/Kg dry | 5.14 | 14.0 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| Pyridine | < 373 | 746 | U | ug/Kg dry | 46.7 | 373 | 10/15/24 01:41 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 66%* | *Limits: 35-115* | | *10/15/24 01:41* | *B24J0296* | *LP* | 1 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 72%* | *Limits: 33-122* | | *10/15/24 01:41* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 63%* | *Limits: 37-122* | | *10/15/24 01:41* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 54%* | *Limits: 44-115* | | *10/15/24 01:41* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 66%* | *Limits: 39-132* | | *10/15/24 01:41* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 68%* | *Limits: 54-127* | | *10/15/24 01:41* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.120 | 0.240 | U | mg/Kg dry | 0.0457 | 0.120 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.601 | 0.721 | U | mg/Kg dry | 0.262 | 0.601 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.721 | 0.962 | U | mg/Kg dry | 0.343 | 0.721 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.240 | 0.361 | U | mg/Kg dry | 0.0793 | 0.240 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.240 | 0.361 | U | mg/Kg dry | 0.0733 | 0.240 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.120 | 0.240 | U | mg/Kg dry | 0.0397 | 0.120 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.301 | 0.361 | U | mg/Kg dry | 0.141 | 0.301 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.120 | 0.361 | U | mg/Kg dry | 0.0325 | 0.120 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.240 | 0.361 | U | mg/Kg dry | 0.0661 | 0.240 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-6-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:57
**Matrix:** Soil
**Lab ID:** O24J0276-14 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8082A / SW3546 (Continued)** | | | | | | | | | | |
| Total PCB | < 0.721 | 0.962 | U | mg/Kg dry | 0.343 | 0.721 | 10/09/24 00:38 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 91%* | *Limits: 10-127* | | *10/09/24 00:38* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 72%* | *Limits: 44-130* | | *10/09/24 00:38* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.81 | 9.62 | U | ug/Kg dry | 1.83 | 4.81 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.40 | 4.81 | U | ug/Kg dry | 1.19 | 2.40 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.81 | 9.62 | U | ug/Kg dry | 2.36 | 4.81 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.40 | 4.81 | U | ug/Kg dry | 0.714 | 2.40 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.40 | 4.81 | U | ug/Kg dry | 1.06 | 2.40 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.40 | 4.81 | U | ug/Kg dry | 0.849 | 2.40 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.81 | 9.62 | U | ug/Kg dry | 1.34 | 4.81 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Chlordane | < 24.0 | 48.1 | U | ug/Kg dry | 11.6 | 24.0 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.40 | 4.81 | U | ug/Kg dry | 1.13 | 2.40 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.40 | 4.81 | U | ug/Kg dry | 0.748 | 2.40 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.40 | 4.81 | U | ug/Kg dry | 1.15 | 2.40 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.40 | 4.81 | U | ug/Kg dry | 1.09 | 2.40 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.81 | 9.62 | U | ug/Kg dry | 1.27 | 4.81 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Endrin | < 2.40 | 4.81 | U | ug/Kg dry | 0.866 | 2.40 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 4.81 | 9.62 | U | ug/Kg dry | 1.40 | 4.81 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.81 | 9.62 | U | ug/Kg dry | 1.49 | 4.81 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.40 | 4.81 | U | ug/Kg dry | 1.02 | 2.40 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.81 | 9.62 | U | ug/Kg dry | 2.06 | 4.81 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.40 | 4.81 | U | ug/Kg dry | 1.18 | 2.40 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.40 | 4.81 | U | ug/Kg dry | 1.32 | 2.40 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.81 | 9.62 | U | ug/Kg dry | 2.31 | 4.81 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| Toxaphene | < 301 | 601 | U | ug/Kg dry | 202 | 301 | 10/18/24 00:40 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 85%* | *Limits: 23-110* | | *10/18/24 00:40* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 94%* | *Limits: 42-129* | | *10/18/24 00:57* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **9,740** | 73.4 | D | mg/Kg dry | 10.2 | 58.7 | 10/09/24 16:24 | B24J0437 | CS2 | 10 |
| Antimony | < 1.17 | 1.47 | U | mg/Kg dry | 0.587 | 1.17 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Arsenic** | **3.55** | 1.47 | | mg/Kg dry | 0.423 | 1.17 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Barium** | **106** | 1.47 | | mg/Kg dry | 0.229 | 0.587 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-6-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 14:57
**Matrix:** Soil
**Lab ID:** O24J0276-14 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Metals by ICP-AES (Continued)*** | | | | | | | | | | |
| **Method: SW6010D / SW3050 (Continued)** | | | | | | | | | | |
| **Beryllium** | **0.244** | 0.147 | | mg/Kg dry | 0.0352 | 0.117 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.596** | 0.147 | | mg/Kg dry | 0.0294 | 0.0587 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Calcium** | **1,240** | 14.7 | B | mg/Kg dry | 5.87 | 11.7 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Chromium** | **17.4** | 1.47 | | mg/Kg dry | 0.405 | 1.17 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Cobalt** | **8.70** | 1.47 | | mg/Kg dry | 0.229 | 0.587 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Copper** | **14.8** | 1.47 | | mg/Kg dry | 0.346 | 1.17 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Iron** | **19,400** | 73.4 | D, B | mg/Kg dry | 35.2 | 70.5 | 10/09/24 16:24 | B24J0437 | CS2 | 10 |
| **Lead** | **29.4** | 1.47 | | mg/Kg dry | 0.352 | 1.17 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Magnesium** | **2,190** | 6.28 | | mg/Kg dry | 2.01 | 6.03 | 11/11/24 13:20 | B24K0386 | CS2 | 1 |
| **Manganese** | **525** | 1.47 | | mg/Kg dry | 0.247 | 0.587 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Nickel** | **19.3** | 1.47 | | mg/Kg dry | 0.258 | 0.587 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Potassium** | **745** | 15.3 | | mg/Kg dry | 9.48 | 14.7 | 11/15/24 16:32 | B24K0661 | CS2 | 1 |
| Selenium | < 1.17 | 1.47 | Q, U | mg/Kg dry | 0.423 | 1.17 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| Silver | < 1.17 | 1.47 | U | mg/Kg dry | 0.294 | 1.17 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Sodium** | **72.1** | 12.6 | | mg/Kg dry | 6.03 | 12.1 | 11/11/24 13:20 | B24K0386 | CS2 | 1 |
| Thallium | < 1.17 | 1.47 | U | mg/Kg dry | 0.564 | 1.17 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Vanadium** | **24.5** | 1.47 | | mg/Kg dry | 0.200 | 0.587 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| **Zinc** | **52.5** | 5.87 | | mg/Kg dry | 1.26 | 2.94 | 10/09/24 14:40 | B24J0437 | CS2 | 1 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| **Mercury** | **0.0186** | 0.0565 | J | mg/Kg dry | 0.0169 | 0.0339 | 10/15/24 12:11 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **80.2** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:27
**Matrix:** Soil
**Lab ID:** O24J0276-15

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.895 | 1.79 | U | ug/Kg dry | 0.362 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.895 | 1.79 | U | ug/Kg dry | 0.366 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.895 | 1.79 | U | ug/Kg dry | 0.319 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.895 | 1.79 | U | ug/Kg dry | 0.393 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.79 | 3.58 | U | ug/Kg dry | 0.486 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **1,1-Dichloroethene** | **1.66** | 1.79 | J | ug/Kg dry | 0.388 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,1-Dichloropropene | < 8.95 | 17.9 | U | ug/Kg dry | 2.54 | 8.95 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 17.9 | 35.8 | Q, U | ug/Kg dry | 5.80 | 17.9 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 8.95 | 17.9 | U | ug/Kg dry | 3.43 | 8.95 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 17.9 | 35.8 | U | ug/Kg dry | 5.69 | 17.9 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 3.58 | 7.16 | U | ug/Kg dry | 0.964 | 3.58 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.58 | 7.16 | U | ug/Kg dry | 1.48 | 3.58 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.895 | 1.79 | U | ug/Kg dry | 0.243 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 4.48 | 8.95 | U | ug/Kg dry | 1.57 | 4.48 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.895 | 1.79 | U | ug/Kg dry | 0.368 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.895 | 1.79 | U | ug/Kg dry | 0.432 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.79 | 3.58 | U | ug/Kg dry | 0.894 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.79 | 3.58 | U | ug/Kg dry | 0.641 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.895 | 1.79 | U | ug/Kg dry | 0.400 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,4-Dioxane | < 35.8 | 71.6 | U | ug/Kg dry | 13.7 | 35.8 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 4.48 | 8.95 | U | ug/Kg dry | 1.64 | 4.48 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 1-Propanol | < 89.5 | 179 | Q, U | ug/Kg dry | 28.5 | 89.5 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.895 | 1.79 | U | ug/Kg dry | 0.296 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 2-Butanone | < 12.5 | 25.1 | U | ug/Kg dry | 6.10 | 12.5 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 44.8 | 89.5 | U | ug/Kg dry | 17.9 | 44.8 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 2-Chlorotoluene | < 1.79 | 3.58 | U | ug/Kg dry | 0.785 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 2-Hexanone | < 12.5 | 25.1 | U | ug/Kg dry | 4.75 | 12.5 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 4-Chlorotoluene | < 1.79 | 3.58 | U | ug/Kg dry | 0.784 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 4-Isopropyltoluene | < 3.58 | 7.16 | U | ug/Kg dry | 1.05 | 3.58 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 12.5 | 25.1 | U | ug/Kg dry | 3.65 | 12.5 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Acetone | < 31.3 | 62.7 | U | ug/Kg dry | 10.8 | 31.3 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Acetonitrile | < 89.5 | 179 | U | ug/Kg dry | 27.9 | 89.5 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Acrolein | < 17.9 | 35.8 | U | ug/Kg dry | 7.51 | 17.9 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Acrylonitrile | < 1.79 | 3.58 | U | ug/Kg dry | 0.877 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **Benzene** | **7.89** | 1.79 | | ug/Kg dry | 0.258 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Bromobenzene | < 1.79 | 3.58 | U | ug/Kg dry | 0.503 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Bromochloromethane | < 1.79 | 3.58 | U | ug/Kg dry | 0.628 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:27
**Matrix:** Soil
**Lab ID:** O24J0276-15 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.895 | 1.79 | U | ug/Kg dry | 0.431 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Bromoform | < 1.79 | 3.58 | U | ug/Kg dry | 0.564 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Bromomethane | < 8.95 | 17.9 | U | ug/Kg dry | 2.15 | 8.95 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **Carbon disulfide** | **1.36** | 3.58 | Q, J | ug/Kg dry | 0.539 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Carbon tetrachloride | < 8.95 | 17.9 | U | ug/Kg dry | 2.50 | 8.95 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Chlorobenzene | < 1.79 | 3.58 | U | ug/Kg dry | 0.465 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Chloroethane | < 3.58 | 7.16 | U | ug/Kg dry | 1.27 | 3.58 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Chloroform | < 1.79 | 3.58 | U | ug/Kg dry | 0.655 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Chloromethane | < 3.58 | 7.16 | U | ug/Kg dry | 1.31 | 3.58 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **cis-1,2-Dichloroethene** | **502** | 19.8 | | ug/Kg dry | 3.90 | 9.89 | 10/15/24 12:26 | B24J0919 | TC1 | 50 |
| cis-1,3-Dichloropropene | < 1.79 | 3.58 | U | ug/Kg dry | 0.619 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **Cyclohexane** | **3.47** | 8.95 | J | ug/Kg dry | 1.38 | 4.48 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Dibromochloromethane | < 0.895 | 1.79 | U | ug/Kg dry | 0.426 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Dibromomethane | < 0.895 | 1.79 | U | ug/Kg dry | 0.327 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Dichlorodifluoromethane | < 4.48 | 8.95 | U | ug/Kg dry | 1.08 | 4.48 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Ethylbenzene | < 3.58 | 7.16 | U | ug/Kg dry | 0.926 | 3.58 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Isobutanol | < 35.8 | 71.6 | U | ug/Kg dry | 9.52 | 35.8 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Isopropanol | < 35.8 | 71.6 | U | ug/Kg dry | 15.5 | 35.8 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Isopropylbenzene | < 1.79 | 3.58 | U | ug/Kg dry | 0.889 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| m,p-Xylene | < 3.58 | 7.16 | U | ug/Kg dry | 1.45 | 3.58 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.895 | 1.79 | U | ug/Kg dry | 0.299 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Methylene chloride | < 8.95 | 17.9 | U | ug/Kg dry | 3.52 | 8.95 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| n-Butylbenzene | < 8.95 | 17.9 | U | ug/Kg dry | 2.56 | 8.95 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| n-Propylbenzene | < 1.79 | 3.58 | U | ug/Kg dry | 0.857 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Naphthalene | < 17.9 | 35.8 | Q, U | ug/Kg dry | 8.89 | 17.9 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| o-Xylene | < 3.58 | 7.16 | U | ug/Kg dry | 0.914 | 3.58 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| sec-Butylbenzene | < 1.79 | 3.58 | U | ug/Kg dry | 0.878 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Styrene | < 3.58 | 7.16 | U | ug/Kg dry | 0.982 | 3.58 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **tert-Butylbenzene** | **0.340** | 3.58 | J | ug/Kg dry | 0.340 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Tetrachloroethene | < 1.79 | 3.58 | U | ug/Kg dry | 0.523 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Tetrahydrofuran | < 4.48 | 8.95 | U | ug/Kg dry | 1.29 | 4.48 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **Toluene** | **1.06** | 1.79 | J | ug/Kg dry | 0.324 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **trans-1,2-Dichloroethene** | **1.05** | 3.58 | J | ug/Kg dry | 0.829 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.79 | 3.58 | U | ug/Kg dry | 0.733 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **Trichloroethene** | **0.815** | 1.79 | J | ug/Kg dry | 0.434 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Trichlorofluoromethane | < 0.895 | 1.79 | U | ug/Kg dry | 0.371 | 0.895 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Vinyl acetate | < 1.79 | 3.58 | U | ug/Kg dry | 0.457 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:27
**Matrix:** Soil
**Lab ID:** O24J0276-15 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| **Vinyl chloride** | **207** | 3.58 | E | ug/Kg dry | 0.639 | 1.79 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| Xylenes, Total | < 5.37 | 10.7 | U | ug/Kg dry | 2.29 | 5.37 | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **1,2-Dichloroethene, Total** | **502** | 49.4 | | ug/Kg dry | 5.91 | 24.7 | 10/15/24 12:26 | B24J0919 | TC1 | 50 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 95%* | *Limits: 78-119* | | *10/09/24 13:46* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 95%* | *Limits: 71-136* | | *10/09/24 13:46* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 100%* | *Limits: 81-114* | | *10/09/24 13:46* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 95%* | *Limits: 85-116* | | *10/09/24 13:46* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 105%* | *Limits: 79-119* | | *10/09/24 13:46* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 104%* | *Limits: 78-121* | | *10/09/24 13:46* | *B24J0625* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **Cyclohexane, methyl-** | **3.92** | | | ug/Kg | | | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **Cyclohexane, propyl-** | **3.51** | | | ug/Kg | | | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **Decane** | **3.92** | | | ug/Kg | | | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **Decane (01)** | **1.59** | | | ug/Kg | | | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **Propene** | **2.86** | | | ug/Kg | | | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **unknown** | **1.64** | | | ug/Kg | | | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **unknown (01)** | **1.97** | | | ug/Kg | | | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| **unknown (02)** | **1.53** | | | ug/Kg | | | 10/09/24 13:46 | B24J0625 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| 1-Methylnaphthalene | < 9.45 | 18.9 | U | ug/Kg dry | 3.01 | 9.45 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 9.45 | 18.9 | U | ug/Kg dry | 3.21 | 9.45 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Acenaphthene | < 9.45 | 18.9 | U | ug/Kg dry | 3.45 | 9.45 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 11.8 | 18.9 | U | ug/Kg dry | 5.13 | 11.8 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Anthracene | < 11.8 | 18.9 | U | ug/Kg dry | 4.82 | 11.8 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Benzo(a)anthracene | < 9.45 | 18.9 | U | ug/Kg dry | 3.77 | 9.45 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Benzo(a)pyrene | < 9.45 | 18.9 | U | ug/Kg dry | 2.88 | 9.45 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 11.8 | 18.9 | U | ug/Kg dry | 6.08 | 11.8 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 11.8 | 18.9 | U | ug/Kg dry | 5.89 | 11.8 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 11.8 | 18.9 | U | ug/Kg dry | 4.93 | 11.8 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Chrysene | < 9.45 | 18.9 | U | ug/Kg dry | 3.97 | 9.45 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 11.8 | 18.9 | U | ug/Kg dry | 4.77 | 11.8 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Fluoranthene | < 11.8 | 18.9 | U | ug/Kg dry | 5.88 | 11.8 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Fluorene | < 9.45 | 18.9 | U | ug/Kg dry | 4.51 | 9.45 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:27
**Matrix:** Soil
**Lab ID:** O24J0276-15 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550 (Continued)** | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | < 11.8 | 18.9 | U | ug/Kg dry | 4.80 | 11.8 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Naphthalene | < 11.8 | 18.9 | U | ug/Kg dry | 5.66 | 11.8 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Phenanthrene | < 9.45 | 18.9 | U | ug/Kg dry | 4.64 | 9.45 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| Pyrene | < 11.8 | 18.9 | U | ug/Kg dry | 2.59 | 11.8 | 10/11/24 19:26 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 87%* | *Limits: 57-119* | | *10/11/24 19:26* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 81%* | *Limits: 54-133* | | *10/11/24 19:26* | *B24J0527* | *MS5* | 1 |
| **Method: SW8270E / SW3550** | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | < 18.3 | 27.4 | U | ug/Kg dry | 5.17 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 18.3 | 27.4 | U | ug/Kg dry | 4.76 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 13.7 | 27.4 | U | ug/Kg dry | 4.53 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 18.3 | 27.4 | U | ug/Kg dry | 4.34 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 13.7 | 27.4 | U | ug/Kg dry | 5.14 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 9.14 | 18.3 | U | ug/Kg dry | 3.25 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 9.14 | 18.3 | U | ug/Kg dry | 6.05 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 9.14 | 18.3 | U | ug/Kg dry | 2.92 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 27.4 | 54.8 | U | ug/Kg dry | 3.77 | 27.4 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 274 | 457 | U | ug/Kg dry | 62.2 | 274 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 18.3 | 27.4 | U | ug/Kg dry | 6.03 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 9.14 | 18.3 | U | ug/Kg dry | 2.89 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 9.14 | 18.3 | U | ug/Kg dry | 3.25 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 9.14 | 18.3 | U | ug/Kg dry | 3.88 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 9.14 | 18.3 | U | ug/Kg dry | 4.08 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 13.7 | 27.4 | U | ug/Kg dry | 4.46 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.57 | 9.14 | U | ug/Kg dry | 2.10 | 4.57 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2-Nitroaniline | < 18.3 | 27.4 | U | ug/Kg dry | 5.56 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 18.3 | 27.4 | U | ug/Kg dry | 7.67 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 54.8 | 110 | U | ug/Kg dry | 17.4 | 54.8 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 18.3 | 36.6 | U | ug/Kg dry | 7.13 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 18.3 | 27.4 | U | ug/Kg dry | 9.73 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 366 | 731 | U | ug/Kg dry | 108 | 366 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 13.7 | 27.4 | U | ug/Kg dry | 4.84 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 9.14 | 18.3 | U | ug/Kg dry | 2.51 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 13.7 | 27.4 | U | ug/Kg dry | 4.39 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 13.7 | 27.4 | U | ug/Kg dry | 4.63 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 18.3 | 36.6 | U | ug/Kg dry | 3.63 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 366 | 731 | U | ug/Kg dry | 121 | 366 | 10/15/24 02:02 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:27
**Matrix:** Soil
**Lab ID:** O24J0276-15 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | < 9.14 | 18.3 | U | ug/Kg dry | 3.67 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Acenaphthylene | < 9.14 | 18.3 | U | ug/Kg dry | 4.12 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Aniline | < 110 | 183 | U | ug/Kg dry | 6.46 | 110 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Anthracene | < 13.7 | 27.4 | U | ug/Kg dry | 5.28 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 9.14 | 18.3 | U | ug/Kg dry | 2.61 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Benzidine | < 731 | 3,050 | U | ug/Kg dry | 155 | 731 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 13.7 | 27.4 | U | ug/Kg dry | 4.59 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 36.6 | 73.1 | U | ug/Kg dry | 5.60 | 36.6 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Benzo(b)fluoranthene | < 18.3 | 27.4 | U | ug/Kg dry | 7.34 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 18.3 | 36.6 | U | ug/Kg dry | 4.06 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 18.3 | 36.6 | U | ug/Kg dry | 4.46 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Benzoic acid | < 366 | 1,460 | U | ug/Kg dry | 90.9 | 366 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 13.7 | 27.4 | U | ug/Kg dry | 4.69 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 9.14 | 18.3 | U | ug/Kg dry | 4.00 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 366 | 457 | U | ug/Kg dry | 48.5 | 366 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 110 | 183 | U | ug/Kg dry | 30.9 | 110 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 27.4 | 54.8 | U | ug/Kg dry | 7.57 | 27.4 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Carbazole | < 9.14 | 18.3 | U | ug/Kg dry | 3.08 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Chrysene | < 9.14 | 18.3 | U | ug/Kg dry | 2.91 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 13.7 | 27.4 | U | ug/Kg dry | 11.1 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Dibenzofuran | < 13.7 | 27.4 | U | ug/Kg dry | 4.07 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 110 | 183 | U | ug/Kg dry | 31.6 | 110 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 9.14 | 18.3 | U | ug/Kg dry | 3.67 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 27.4 | 54.8 | U | ug/Kg dry | 10.2 | 27.4 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 18.3 | 27.4 | U | ug/Kg dry | 6.70 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Fluoranthene | < 18.3 | 27.4 | U | ug/Kg dry | 5.93 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Fluorene | < 9.14 | 18.3 | U | ug/Kg dry | 3.60 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 9.14 | 18.3 | U | ug/Kg dry | 3.52 | 9.14 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 18.3 | 36.6 | U | ug/Kg dry | 5.63 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 366 | 731 | U | ug/Kg dry | 68.8 | 366 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Hexachloroethane | < 18.3 | 36.6 | U | ug/Kg dry | 5.01 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 18.3 | 27.4 | U | ug/Kg dry | 7.24 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Isophorone | < 13.7 | 27.4 | U | ug/Kg dry | 3.50 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Naphthalene | < 18.3 | 27.4 | U | ug/Kg dry | 5.25 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Nitrobenzene | < 18.3 | 36.6 | U | ug/Kg dry | 4.74 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 18.3 | 36.6 | U | ug/Kg dry | 6.92 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 27.4 | 54.8 | U | ug/Kg dry | 8.58 | 27.4 | 10/15/24 02:02 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:27
**Matrix:** Soil
**Lab ID:** O24J0276-15 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| N-Nitrosodiphenylamine | < 18.3 | 27.4 | U | ug/Kg dry | 6.34 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 18.3 | 27.4 | U | ug/Kg dry | 6.14 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 274 | 457 | U | ug/Kg dry | 49.2 | 274 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Phenanthrene | < 13.7 | 27.4 | U | ug/Kg dry | 4.74 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Phenol | < 18.3 | 36.6 | U | ug/Kg dry | 5.05 | 18.3 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Pyrene | < 13.7 | 27.4 | U | ug/Kg dry | 5.04 | 13.7 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| Pyridine | < 366 | 731 | U | ug/Kg dry | 45.7 | 366 | 10/15/24 02:02 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 67%* | *Limits: 35-115* | | *10/15/24 02:02* | *B24J0296* | *LP* | 1 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 72%* | *Limits: 33-122* | | *10/15/24 02:02* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 64%* | *Limits: 37-122* | | *10/15/24 02:02* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 60%* | *Limits: 44-115* | | *10/15/24 02:02* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 70%* | *Limits: 39-132* | | *10/15/24 02:02* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 72%* | *Limits: 54-127* | | *10/15/24 02:02* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.117 | 0.235 | U | mg/Kg dry | 0.0446 | 0.117 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.587 | 0.704 | U | mg/Kg dry | 0.256 | 0.587 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.704 | 0.939 | U | mg/Kg dry | 0.335 | 0.704 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.235 | 0.352 | U | mg/Kg dry | 0.0775 | 0.235 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.235 | 0.352 | U | mg/Kg dry | 0.0716 | 0.235 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.117 | 0.235 | U | mg/Kg dry | 0.0387 | 0.117 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.293 | 0.352 | U | mg/Kg dry | 0.137 | 0.293 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.117 | 0.352 | U | mg/Kg dry | 0.0317 | 0.117 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.235 | 0.352 | U | mg/Kg dry | 0.0646 | 0.235 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.704 | 0.939 | U | mg/Kg dry | 0.335 | 0.704 | 10/09/24 00:54 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 98%* | *Limits: 10-127* | | *10/09/24 00:54* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 76%* | *Limits: 44-130* | | *10/09/24 00:54* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.70 | 9.39 | U | ug/Kg dry | 1.78 | 4.70 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.35 | 4.70 | U | ug/Kg dry | 1.16 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.70 | 9.39 | U | ug/Kg dry | 2.31 | 4.70 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.35 | 4.70 | U | ug/Kg dry | 0.697 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.35 | 4.70 | U | ug/Kg dry | 1.03 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.35 | 4.70 | U | ug/Kg dry | 0.829 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:27
**Matrix:** Soil
**Lab ID:** O24J0276-15 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| beta-BHC | < 4.70 | 9.39 | U | ug/Kg dry | 1.31 | 4.70 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Chlordane | < 23.5 | 47.0 | U | ug/Kg dry | 11.4 | 23.5 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.35 | 4.70 | U | ug/Kg dry | 1.10 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.35 | 4.70 | U | ug/Kg dry | 0.730 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.35 | 4.70 | U | ug/Kg dry | 1.12 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.35 | 4.70 | U | ug/Kg dry | 1.07 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.70 | 9.39 | U | ug/Kg dry | 1.24 | 4.70 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Endrin | < 2.35 | 4.70 | U | ug/Kg dry | 0.846 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 4.70 | 9.39 | U | ug/Kg dry | 1.37 | 4.70 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.70 | 9.39 | U | ug/Kg dry | 1.45 | 4.70 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.35 | 4.70 | U | ug/Kg dry | 0.998 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.70 | 9.39 | U | ug/Kg dry | 2.01 | 4.70 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.35 | 4.70 | U | ug/Kg dry | 1.15 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.35 | 4.70 | U | ug/Kg dry | 1.29 | 2.35 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.70 | 9.39 | U | ug/Kg dry | 2.26 | 4.70 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| Toxaphene | < 293 | 587 | U | ug/Kg dry | 198 | 293 | 10/18/24 00:57 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 91%* | *Limits: 23-110* | | *10/18/24 00:57* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 97%* | *Limits: 42-129* | | *10/18/24 01:13* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **14,500** | 62.9 | D | mg/Kg dry | 8.71 | 50.3 | 10/09/24 16:28 | B24J0437 | CS2 | 10 |
| Antimony | < 1.01 | 1.26 | U | mg/Kg dry | 0.503 | 1.01 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| Arsenic | < 1.01 | 1.26 | U | mg/Kg dry | 0.362 | 1.01 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Barium** | **64.1** | 1.26 | | mg/Kg dry | 0.196 | 0.503 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.300** | 0.126 | | mg/Kg dry | 0.0302 | 0.101 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.362** | 0.126 | | mg/Kg dry | 0.0252 | 0.0503 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Calcium** | **1,320** | 12.6 | B | mg/Kg dry | 5.03 | 10.1 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Chromium** | **18.0** | 1.26 | | mg/Kg dry | 0.347 | 1.01 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Cobalt** | **6.45** | 1.26 | | mg/Kg dry | 0.196 | 0.503 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Copper** | **6.04** | 1.26 | | mg/Kg dry | 0.297 | 1.01 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Iron** | **18,300** | 62.9 | D, B | mg/Kg dry | 30.2 | 60.4 | 10/09/24 16:28 | B24J0437 | CS2 | 10 |
| **Lead** | **34.2** | 1.26 | | mg/Kg dry | 0.302 | 1.01 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Magnesium** | **970** | 6.55 | | mg/Kg dry | 2.10 | 6.29 | 11/11/24 13:24 | B24K0386 | CS2 | 1 |
| **Manganese** | **1,300** | 12.6 | D | mg/Kg dry | 2.11 | 5.03 | 10/09/24 16:28 | B24J0437 | CS2 | 10 |
| **Nickel** | **9.35** | 1.26 | | mg/Kg dry | 0.221 | 0.503 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Potassium** | **443** | 14.7 | | mg/Kg dry | 9.13 | 14.1 | 11/15/24 16:36 | B24K0661 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-17-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:27
**Matrix:** Soil
**Lab ID:** O24J0276-15 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Metals by ICP-AES (Continued)*** | | | | | | | | | | |
| **Method: SW6010D / SW3050 (Continued)** | | | | | | | | | | |
| Selenium | < 1.01 | 1.26 | Q, U | mg/Kg dry | 0.362 | 1.01 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| Silver | < 1.01 | 1.26 | U | mg/Kg dry | 0.252 | 1.01 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Sodium** | **69.0** | 13.1 | | mg/Kg dry | 6.29 | 12.6 | 11/11/24 13:24 | B24K0386 | CS2 | 1 |
| Thallium | < 1.01 | 1.26 | U | mg/Kg dry | 0.483 | 1.01 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Vanadium** | **27.2** | 1.26 | | mg/Kg dry | 0.171 | 0.503 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| **Zinc** | **17.9** | 5.03 | | mg/Kg dry | 1.08 | 2.52 | 10/09/24 14:45 | B24J0437 | CS2 | 1 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| **Mercury** | **0.0175** | 0.0583 | J | mg/Kg dry | 0.0175 | 0.0350 | 10/15/24 12:18 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **81.6** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:45
**Matrix:** Soil
**Lab ID:** O24J0276-16

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.881 | 1.76 | U | ug/Kg dry | 0.357 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.881 | 1.76 | U | ug/Kg dry | 0.361 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.881 | 1.76 | U | ug/Kg dry | 0.314 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.881 | 1.76 | U | ug/Kg dry | 0.386 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.76 | 3.52 | U | ug/Kg dry | 0.478 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **1,1-Dichloroethene** | **3.28** | 1.76 | | ug/Kg dry | 0.382 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,1-Dichloropropene | < 8.81 | 17.6 | U | ug/Kg dry | 2.50 | 8.81 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 17.6 | 35.2 | Q, U | ug/Kg dry | 5.71 | 17.6 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 8.81 | 17.6 | U | ug/Kg dry | 3.37 | 8.81 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 17.6 | 35.2 | U | ug/Kg dry | 5.60 | 17.6 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 3.52 | 7.05 | U | ug/Kg dry | 0.949 | 3.52 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.52 | 7.05 | U | ug/Kg dry | 1.46 | 3.52 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.881 | 1.76 | U | ug/Kg dry | 0.239 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 4.40 | 8.81 | U | ug/Kg dry | 1.54 | 4.40 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.881 | 1.76 | U | ug/Kg dry | 0.362 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.881 | 1.76 | U | ug/Kg dry | 0.425 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.76 | 3.52 | U | ug/Kg dry | 0.880 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.76 | 3.52 | U | ug/Kg dry | 0.631 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.881 | 1.76 | U | ug/Kg dry | 0.394 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,4-Dioxane | < 35.2 | 70.5 | U | ug/Kg dry | 13.5 | 35.2 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 4.40 | 8.81 | U | ug/Kg dry | 1.61 | 4.40 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 1-Propanol | < 88.1 | 176 | Q, U | ug/Kg dry | 28.0 | 88.1 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.881 | 1.76 | U | ug/Kg dry | 0.292 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 2-Butanone | < 12.3 | 24.7 | U | ug/Kg dry | 6.00 | 12.3 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 44.0 | 88.1 | U | ug/Kg dry | 17.6 | 44.0 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 2-Chlorotoluene | < 1.76 | 3.52 | U | ug/Kg dry | 0.772 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 2-Hexanone | < 12.3 | 24.7 | U | ug/Kg dry | 4.67 | 12.3 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 4-Chlorotoluene | < 1.76 | 3.52 | U | ug/Kg dry | 0.772 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 4-Isopropyltoluene | < 3.52 | 7.05 | U | ug/Kg dry | 1.03 | 3.52 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 12.3 | 24.7 | U | ug/Kg dry | 3.59 | 12.3 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Acetone | < 30.8 | 61.6 | U | ug/Kg dry | 10.7 | 30.8 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Acetonitrile | < 88.1 | 176 | U | ug/Kg dry | 27.5 | 88.1 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Acrolein | < 17.6 | 35.2 | U | ug/Kg dry | 7.39 | 17.6 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Acrylonitrile | < 1.76 | 3.52 | U | ug/Kg dry | 0.863 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Benzene** | **3.71** | 1.76 | | ug/Kg dry | 0.254 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Bromobenzene | < 1.76 | 3.52 | U | ug/Kg dry | 0.495 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Bromochloromethane | < 1.76 | 3.52 | U | ug/Kg dry | 0.618 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:45
**Matrix:** Soil
**Lab ID:** O24J0276-16 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.881 | 1.76 | U | ug/Kg dry | 0.424 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Bromoform | < 1.76 | 3.52 | U | ug/Kg dry | 0.555 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Bromomethane | < 8.81 | 17.6 | U | ug/Kg dry | 2.12 | 8.81 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Carbon disulfide | < 1.76 | 3.52 | Q, U | ug/Kg dry | 0.530 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Carbon tetrachloride | < 8.81 | 17.6 | U | ug/Kg dry | 2.46 | 8.81 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Chlorobenzene | < 1.76 | 3.52 | U | ug/Kg dry | 0.458 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Chloroethane | < 3.52 | 7.05 | U | ug/Kg dry | 1.25 | 3.52 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Chloroform | < 1.76 | 3.52 | U | ug/Kg dry | 0.644 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Chloromethane | < 3.52 | 7.05 | U | ug/Kg dry | 1.29 | 3.52 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **cis-1,2-Dichloroethene** | **1,130** | 243 | | ug/Kg dry | 47.8 | 121 | 10/15/24 12:55 | B24J0919 | TC1 | 500 |
| cis-1,3-Dichloropropene | < 1.76 | 3.52 | U | ug/Kg dry | 0.609 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Cyclohexane** | **5.35** | 8.81 | J | ug/Kg dry | 1.36 | 4.40 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Dibromochloromethane | < 0.881 | 1.76 | U | ug/Kg dry | 0.419 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Dibromomethane | < 0.881 | 1.76 | U | ug/Kg dry | 0.322 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Dichlorodifluoromethane | < 4.40 | 8.81 | U | ug/Kg dry | 1.07 | 4.40 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Ethylbenzene | < 3.52 | 7.05 | U | ug/Kg dry | 0.911 | 3.52 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Isobutanol | < 35.2 | 70.5 | U | ug/Kg dry | 9.37 | 35.2 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Isopropanol | < 35.2 | 70.5 | U | ug/Kg dry | 15.2 | 35.2 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Isopropylbenzene | < 1.76 | 3.52 | U | ug/Kg dry | 0.875 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| m,p-Xylene | < 3.52 | 7.05 | U | ug/Kg dry | 1.42 | 3.52 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.881 | 1.76 | U | ug/Kg dry | 0.295 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Methylene chloride | < 8.81 | 17.6 | U | ug/Kg dry | 3.46 | 8.81 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| n-Butylbenzene | < 8.81 | 17.6 | U | ug/Kg dry | 2.52 | 8.81 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| n-Propylbenzene | < 1.76 | 3.52 | U | ug/Kg dry | 0.843 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Naphthalene | < 17.6 | 35.2 | Q, U | ug/Kg dry | 8.74 | 17.6 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| o-Xylene | < 3.52 | 7.05 | U | ug/Kg dry | 0.899 | 3.52 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| sec-Butylbenzene | < 1.76 | 3.52 | U | ug/Kg dry | 0.864 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Styrene | < 3.52 | 7.05 | U | ug/Kg dry | 0.966 | 3.52 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| tert-Butylbenzene | < 1.76 | 3.52 | U | ug/Kg dry | 0.335 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Tetrachloroethene | < 1.76 | 3.52 | U | ug/Kg dry | 0.514 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Tetrahydrofuran | < 4.40 | 8.81 | U | ug/Kg dry | 1.27 | 4.40 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Toluene** | **1.00** | 1.76 | J | ug/Kg dry | 0.318 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **trans-1,2-Dichloroethene** | **1.37** | 3.52 | J | ug/Kg dry | 0.815 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.76 | 3.52 | U | ug/Kg dry | 0.721 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Trichloroethene** | **17.6** | 1.76 | | ug/Kg dry | 0.427 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Trichlorofluoromethane | < 0.881 | 1.76 | U | ug/Kg dry | 0.365 | 0.881 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Vinyl acetate | < 1.76 | 3.52 | U | ug/Kg dry | 0.449 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:45
**Matrix:** Soil
**Lab ID:** O24J0276-16 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| **Vinyl chloride** | **100** | 3.52 | | ug/Kg dry | 0.629 | 1.76 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| Xylenes, Total | < 5.28 | 10.6 | U | ug/Kg dry | 2.26 | 5.28 | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **1,2-Dichloroethene, Total** | **1,130** | 607 | | ug/Kg dry | 72.6 | 303 | 10/15/24 12:55 | B24J0919 | TC1 | 500 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 96%* | *Limits: 78-119* | | *10/09/24 14:15* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 94%* | *Limits: 71-136* | | *10/09/24 14:15* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 99%* | *Limits: 81-114* | | *10/09/24 14:15* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 97%* | *Limits: 85-116* | | *10/09/24 14:15* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 105%* | *Limits: 79-119* | | *10/09/24 14:15* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 104%* | *Limits: 78-121* | | *10/09/24 14:15* | *B24J0625* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **1-Hexanol, 2-ethyl-** | **5.12** | | | ug/Kg | | | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Butane, 2-methyl-** | **5.33** | | | ug/Kg | | | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Cyclohexane, methyl-** | **7.23** | | | ug/Kg | | | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Cyclopentane, methyl-** | **4.63** | | | ug/Kg | | | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Cyclopropane** | **6.55** | | | ug/Kg | | | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Dimethyl trisulfide** | **4.52** | | | ug/Kg | | | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Disulfide, dimethyl** | **7.75** | | | ug/Kg | | | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Ethylene, 1,2-dichloro-, (Z)-** | **3.28** | | | ug/Kg | | | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Hexane, 3-methyl-** | **3.14** | | | ug/Kg | | | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Pentane** | **7.34** | | | ug/Kg | | | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| **Pentane, 2-methyl-** | **7.43** | | | ug/Kg | | | 10/09/24 14:15 | B24J0625 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| 1-Methylnaphthalene | < 8.73 | 17.5 | U | ug/Kg dry | 2.78 | 8.73 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 8.73 | 17.5 | U | ug/Kg dry | 2.96 | 8.73 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Acenaphthene | < 8.73 | 17.5 | U | ug/Kg dry | 3.19 | 8.73 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 10.9 | 17.5 | U | ug/Kg dry | 4.74 | 10.9 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Anthracene | < 10.9 | 17.5 | U | ug/Kg dry | 4.45 | 10.9 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Benzo(a)anthracene | < 8.73 | 17.5 | U | ug/Kg dry | 3.48 | 8.73 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Benzo(a)pyrene | < 8.73 | 17.5 | U | ug/Kg dry | 2.66 | 8.73 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 10.9 | 17.5 | U | ug/Kg dry | 5.62 | 10.9 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 10.9 | 17.5 | U | ug/Kg dry | 5.45 | 10.9 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 10.9 | 17.5 | U | ug/Kg dry | 4.55 | 10.9 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Chrysene | < 8.73 | 17.5 | U | ug/Kg dry | 3.67 | 8.73 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:45
**Matrix:** Soil
**Lab ID:** O24J0276-16 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270D SIM / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Dibenzo(a,h)anthracene | < 10.9 | 17.5 | U | ug/Kg dry | 4.41 | 10.9 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Fluoranthene | < 10.9 | 17.5 | U | ug/Kg dry | 5.43 | 10.9 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Fluorene | < 8.73 | 17.5 | U | ug/Kg dry | 4.16 | 8.73 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Indeno(1,2,3-cd)pyrene | < 10.9 | 17.5 | U | ug/Kg dry | 4.44 | 10.9 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Naphthalene | < 10.9 | 17.5 | U | ug/Kg dry | 5.23 | 10.9 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Phenanthrene | < 8.73 | 17.5 | U | ug/Kg dry | 4.29 | 8.73 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| Pyrene | < 10.9 | 17.5 | U | ug/Kg dry | 2.39 | 10.9 | 10/11/24 19:47 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 84%* | *Limits: 57-119* | | *10/11/24 19:47* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 77%* | *Limits: 54-133* | | *10/11/24 19:47* | *B24J0527* | *MS5* | 1 |

**Method: SW8270E / SW3550**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 17.0 | 25.6 | U | ug/Kg dry | 4.82 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 1,2-Dichlorobenzene | < 17.0 | 25.6 | U | ug/Kg dry | 4.44 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 1,3-Dichlorobenzene | < 12.8 | 25.6 | U | ug/Kg dry | 4.22 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 1,4-Dichlorobenzene | < 17.0 | 25.6 | U | ug/Kg dry | 4.05 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 1-Methylnaphthalene | < 12.8 | 25.6 | U | ug/Kg dry | 4.79 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2,4,5-Trichlorophenol | < 8.52 | 17.0 | U | ug/Kg dry | 3.03 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2,4,6-Trichlorophenol | < 8.52 | 17.0 | U | ug/Kg dry | 5.64 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2,4-Dichlorophenol | < 8.52 | 17.0 | U | ug/Kg dry | 2.73 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2,4-Dimethylphenol | < 25.6 | 51.1 | U | ug/Kg dry | 3.52 | 25.6 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2,4-Dinitrophenol | < 256 | 426 | U | ug/Kg dry | 58.0 | 256 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2,4-Dinitrotoluene | < 17.0 | 25.6 | U | ug/Kg dry | 5.62 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2,6-Dichlorophenol | < 8.52 | 17.0 | U | ug/Kg dry | 2.69 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2,6-Dinitrotoluene | < 8.52 | 17.0 | U | ug/Kg dry | 3.03 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2-Chloronaphthalene | < 8.52 | 17.0 | U | ug/Kg dry | 3.62 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2-Chlorophenol | < 8.52 | 17.0 | U | ug/Kg dry | 3.81 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2-Methylnaphthalene | < 12.8 | 25.6 | U | ug/Kg dry | 4.15 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2-Methylphenol | < 4.26 | 8.52 | U | ug/Kg dry | 1.96 | 4.26 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2-Nitroaniline | < 17.0 | 25.6 | U | ug/Kg dry | 5.19 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 2-Nitrophenol | < 17.0 | 25.6 | U | ug/Kg dry | 7.15 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 51.1 | 102 | U | ug/Kg dry | 16.2 | 51.1 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 3 & 4-Methylphenol | < 17.0 | 34.1 | U | ug/Kg dry | 6.65 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 3-Nitroaniline | < 17.0 | 25.6 | U | ug/Kg dry | 9.07 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 341 | 682 | U | ug/Kg dry | 101 | 341 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 4-Bromophenyl-phenylether | < 12.8 | 25.6 | U | ug/Kg dry | 4.52 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 4-Chloro-3-methylphenol | < 8.52 | 17.0 | U | ug/Kg dry | 2.34 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 4-Chloroaniline | < 12.8 | 25.6 | U | ug/Kg dry | 4.10 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:45
**Matrix:** Soil
**Lab ID:** O24J0276-16 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorophenyl-phenylether | < 12.8 | 25.6 | U | ug/Kg dry | 4.32 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 4-Nitroaniline | < 17.0 | 34.1 | U | ug/Kg dry | 3.38 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| 4-Nitrophenol | < 341 | 682 | U | ug/Kg dry | 113 | 341 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Acenaphthene | < 8.52 | 17.0 | U | ug/Kg dry | 3.42 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Acenaphthylene | < 8.52 | 17.0 | U | ug/Kg dry | 3.84 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Aniline | < 102 | 170 | U | ug/Kg dry | 6.03 | 102 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Anthracene | < 12.8 | 25.6 | U | ug/Kg dry | 4.92 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 8.52 | 17.0 | U | ug/Kg dry | 2.44 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Benzidine | < 682 | 2,840 | U | ug/Kg dry | 145 | 682 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Benzo(a)anthracene | < 12.8 | 25.6 | U | ug/Kg dry | 4.28 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Benzo(a)pyrene | < 34.1 | 68.2 | U | ug/Kg dry | 5.22 | 34.1 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Benzo(b)fluoranthene | < 17.0 | 25.6 | U | ug/Kg dry | 6.84 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Benzo(g,h,i)perylene | < 17.0 | 34.1 | U | ug/Kg dry | 3.79 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Benzo(k)fluoranthene | < 17.0 | 34.1 | U | ug/Kg dry | 4.16 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Benzoic acid | < 341 | 1,360 | U | ug/Kg dry | 84.7 | 341 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Benzyl alcohol | < 12.8 | 25.6 | U | ug/Kg dry | 4.38 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 8.52 | 17.0 | U | ug/Kg dry | 3.73 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Bis(2-chloroethyl)ether | < 341 | 426 | U | ug/Kg dry | 45.2 | 341 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 102 | 170 | U | ug/Kg dry | 28.9 | 102 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Butyl benzyl phthalate | < 25.6 | 51.1 | U | ug/Kg dry | 7.06 | 25.6 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Carbazole | < 8.52 | 17.0 | U | ug/Kg dry | 2.87 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Chrysene | < 8.52 | 17.0 | U | ug/Kg dry | 2.71 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Dibenzo(a,h)anthracene | < 12.8 | 25.6 | U | ug/Kg dry | 10.4 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Dibenzofuran | < 12.8 | 25.6 | U | ug/Kg dry | 3.79 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Diethyl phthalate | < 102 | 170 | U | ug/Kg dry | 29.4 | 102 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Dimethyl phthalate | < 8.52 | 17.0 | U | ug/Kg dry | 3.42 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Di-n-butyl phthalate | < 25.6 | 51.1 | U | ug/Kg dry | 9.48 | 25.6 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Di-n-octyl phthalate | < 17.0 | 25.6 | U | ug/Kg dry | 6.25 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Fluoranthene | < 17.0 | 25.6 | U | ug/Kg dry | 5.53 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Fluorene | < 8.52 | 17.0 | U | ug/Kg dry | 3.36 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Hexachlorobenzene | < 8.52 | 17.0 | U | ug/Kg dry | 3.28 | 8.52 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Hexachlorobutadiene | < 17.0 | 34.1 | U | ug/Kg dry | 5.25 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Hexachlorocyclopentadiene | < 341 | 682 | U | ug/Kg dry | 64.1 | 341 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Hexachloroethane | < 17.0 | 34.1 | U | ug/Kg dry | 4.67 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 17.0 | 25.6 | U | ug/Kg dry | 6.75 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Isophorone | < 12.8 | 25.6 | U | ug/Kg dry | 3.26 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Naphthalene | < 17.0 | 25.6 | U | ug/Kg dry | 4.90 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:45
**Matrix:** Soil
**Lab ID:** O24J0276-16 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| Nitrobenzene | < 17.0 | 34.1 | U | ug/Kg dry | 4.42 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| N-Nitrosodimethylamine | < 17.0 | 34.1 | U | ug/Kg dry | 6.45 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 25.6 | 51.1 | U | ug/Kg dry | 8.00 | 25.6 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| N-Nitrosodiphenylamine | < 17.0 | 25.6 | U | ug/Kg dry | 5.91 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| N-Nitrosopyrrolidine | < 17.0 | 25.6 | U | ug/Kg dry | 5.73 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Pentachlorophenol | < 256 | 426 | U | ug/Kg dry | 45.9 | 256 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Phenanthrene | < 12.8 | 25.6 | U | ug/Kg dry | 4.42 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Phenol | < 17.0 | 34.1 | U | ug/Kg dry | 4.71 | 17.0 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Pyrene | < 12.8 | 25.6 | U | ug/Kg dry | 4.70 | 12.8 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| Pyridine | < 341 | 682 | U | ug/Kg dry | 42.6 | 341 | 10/15/24 02:22 | B24J0296 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 70%* | *Limits: 35-115* | | *10/15/24 02:22* | *B24J0296* | *LP* | 1 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 76%* | *Limits: 33-122* | | *10/15/24 02:22* | *B24J0296* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 72%* | *Limits: 37-122* | | *10/15/24 02:22* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 77%* | *Limits: 44-115* | | *10/15/24 02:22* | *B24J0296* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 82%* | *Limits: 39-132* | | *10/15/24 02:22* | *B24J0296* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 75%* | *Limits: 54-127* | | *10/15/24 02:22* | *B24J0296* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.110 | 0.220 | U | mg/Kg dry | 0.0419 | 0.110 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.551 | 0.661 | U | mg/Kg dry | 0.240 | 0.551 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.661 | 0.881 | U | mg/Kg dry | 0.314 | 0.661 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.220 | 0.330 | U | mg/Kg dry | 0.0727 | 0.220 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.220 | 0.330 | U | mg/Kg dry | 0.0672 | 0.220 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.110 | 0.220 | U | mg/Kg dry | 0.0363 | 0.110 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.275 | 0.330 | U | mg/Kg dry | 0.129 | 0.275 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.110 | 0.330 | U | mg/Kg dry | 0.0297 | 0.110 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.220 | 0.330 | U | mg/Kg dry | 0.0606 | 0.220 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.661 | 0.881 | U | mg/Kg dry | 0.314 | 0.661 | 10/09/24 01:11 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 87%* | *Limits: 10-127* | | *10/09/24 01:11* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 67%* | *Limits: 44-130* | | *10/09/24 01:11* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.41 | 8.81 | U | ug/Kg dry | 1.67 | 4.41 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.20 | 4.41 | U | ug/Kg dry | 1.09 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.41 | 8.81 | U | ug/Kg dry | 2.16 | 4.41 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:45
**Matrix:** Soil
**Lab ID:** O24J0276-16 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| Aldrin | < 2.20 | 4.41 | U | ug/Kg dry | 0.654 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.20 | 4.41 | U | ug/Kg dry | 0.969 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.20 | 4.41 | U | ug/Kg dry | 0.778 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.41 | 8.81 | U | ug/Kg dry | 1.23 | 4.41 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Chlordane | < 22.0 | 44.1 | U | ug/Kg dry | 10.7 | 22.0 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.20 | 4.41 | U | ug/Kg dry | 1.04 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.20 | 4.41 | U | ug/Kg dry | 0.685 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.20 | 4.41 | U | ug/Kg dry | 1.05 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.20 | 4.41 | U | ug/Kg dry | 1.00 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.41 | 8.81 | U | ug/Kg dry | 1.16 | 4.41 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Endrin | < 2.20 | 4.41 | U | ug/Kg dry | 0.794 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 4.41 | 8.81 | U | ug/Kg dry | 1.28 | 4.41 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.41 | 8.81 | U | ug/Kg dry | 1.36 | 4.41 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.20 | 4.41 | U | ug/Kg dry | 0.936 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.41 | 8.81 | U | ug/Kg dry | 1.89 | 4.41 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.20 | 4.41 | U | ug/Kg dry | 1.08 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.20 | 4.41 | U | ug/Kg dry | 1.21 | 2.20 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.41 | 8.81 | U | ug/Kg dry | 2.12 | 4.41 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| Toxaphene | < 275 | 551 | U | ug/Kg dry | 185 | 275 | 10/18/24 01:13 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 83%* | *Limits: 23-110* | | *10/18/24 01:13* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 85%* | *Limits: 42-129* | | *10/18/24 01:30* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **6,040** | 65.9 | D | mg/Kg dry | 9.13 | 52.8 | 10/09/24 16:32 | B24J0437 | CS2 | 10 |
| Antimony | < 1.06 | 1.32 | U | mg/Kg dry | 0.528 | 1.06 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Arsenic** | **0.675** | 1.32 | J | mg/Kg dry | 0.380 | 1.06 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Barium** | **14.0** | 1.32 | | mg/Kg dry | 0.206 | 0.528 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.132** | 0.132 | | mg/Kg dry | 0.0317 | 0.106 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.303** | 0.132 | | mg/Kg dry | 0.0264 | 0.0528 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Calcium** | **612** | 13.2 | B | mg/Kg dry | 5.28 | 10.6 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Chromium** | **15.8** | 1.32 | | mg/Kg dry | 0.364 | 1.06 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Cobalt** | **1.00** | 1.32 | J | mg/Kg dry | 0.206 | 0.528 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Copper** | **3.18** | 1.32 | | mg/Kg dry | 0.311 | 1.06 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Iron** | **11,800** | 65.9 | D, B | mg/Kg dry | 31.7 | 63.3 | 10/09/24 16:32 | B24J0437 | CS2 | 10 |
| **Lead** | **17.4** | 1.32 | | mg/Kg dry | 0.317 | 1.06 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Magnesium** | **365** | 6.20 | | mg/Kg dry | 1.98 | 5.95 | 11/11/24 13:28 | B24K0386 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-25-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 15:45
**Matrix:** Soil
**Lab ID:** O24J0276-16 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Metals by ICP-AES (Continued)*** | | | | | | | | | | |
| **Method: SW6010D / SW3050 (Continued)** | | | | | | | | | | |
| **Manganese** | **77.8** | 1.32 | | mg/Kg dry | 0.222 | 0.528 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Nickel** | **3.35** | 1.32 | | mg/Kg dry | 0.232 | 0.528 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Potassium** | **207** | 13.7 | | mg/Kg dry | 8.49 | 13.2 | 11/15/24 16:49 | B24K0661 | CS2 | 1 |
| Selenium | < 1.06 | 1.32 | Q, U | mg/Kg dry | 0.380 | 1.06 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| Silver | < 1.06 | 1.32 | U | mg/Kg dry | 0.264 | 1.06 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Sodium** | **42.2** | 12.4 | | mg/Kg dry | 5.95 | 11.9 | 11/11/24 13:28 | B24K0386 | CS2 | 1 |
| Thallium | < 1.06 | 1.32 | U | mg/Kg dry | 0.506 | 1.06 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Vanadium** | **20.0** | 1.32 | | mg/Kg dry | 0.179 | 0.528 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| **Zinc** | **7.85** | 5.28 | | mg/Kg dry | 1.13 | 2.64 | 10/09/24 14:49 | B24J0437 | CS2 | 1 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| Mercury | < 0.0312 | 0.0519 | U | mg/Kg dry | 0.0156 | 0.0312 | 10/15/24 12:21 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **86.9** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-31-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 16:10
**Matrix:** Soil
**Lab ID:** O24J0276-17

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5035**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.991 | 1.98 | U | ug/Kg dry | 0.401 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,1,1-Trichloroethane | < 0.991 | 1.98 | U | ug/Kg dry | 0.406 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.991 | 1.98 | U | ug/Kg dry | 0.353 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,1,2-Trichloroethane | < 0.991 | 1.98 | U | ug/Kg dry | 0.435 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,1-Dichloroethane | < 1.98 | 3.96 | U | ug/Kg dry | 0.538 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,1-Dichloroethene | < 0.991 | 1.98 | U | ug/Kg dry | 0.430 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,1-Dichloropropene | < 9.91 | 19.8 | U | ug/Kg dry | 2.81 | 9.91 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichlorobenzene | < 19.8 | 39.6 | Q, U | ug/Kg dry | 6.42 | 19.8 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,2,3-Trichloropropane | < 9.91 | 19.8 | U | ug/Kg dry | 3.79 | 9.91 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,2,4-Trichlorobenzene | < 19.8 | 39.6 | U | ug/Kg dry | 6.30 | 19.8 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,2,4-Trimethylbenzene | < 3.96 | 7.93 | U | ug/Kg dry | 1.07 | 3.96 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 3.96 | 7.93 | U | ug/Kg dry | 1.64 | 3.96 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,2-Dibromoethane | < 0.991 | 1.98 | U | ug/Kg dry | 0.269 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,2-Dichlorobenzene | < 4.95 | 9.91 | U | ug/Kg dry | 1.73 | 4.95 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,2-Dichloroethane | < 0.991 | 1.98 | U | ug/Kg dry | 0.407 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,2-Dichloropropane | < 0.991 | 1.98 | U | ug/Kg dry | 0.479 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,3,5-Trimethylbenzene | < 1.98 | 3.96 | U | ug/Kg dry | 0.990 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,3-Dichlorobenzene | < 1.98 | 3.96 | U | ug/Kg dry | 0.710 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,3-Dichloropropane | < 0.991 | 1.98 | U | ug/Kg dry | 0.443 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,4-Dioxane | < 39.6 | 79.3 | U | ug/Kg dry | 15.2 | 39.6 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1,4-Dichlorobenzene | < 4.95 | 9.91 | U | ug/Kg dry | 1.81 | 4.95 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 1-Propanol | < 99.1 | 198 | Q, U | ug/Kg dry | 31.5 | 99.1 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 2,2-Dichloropropane | < 0.991 | 1.98 | U | ug/Kg dry | 0.328 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 2-Butanone | < 13.9 | 27.7 | U | ug/Kg dry | 6.75 | 13.9 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 2-Chloroethyl vinyl ether | < 49.5 | 99.1 | U | ug/Kg dry | 19.8 | 49.5 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 2-Chlorotoluene | < 1.98 | 3.96 | U | ug/Kg dry | 0.869 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 2-Hexanone | < 13.9 | 27.7 | U | ug/Kg dry | 5.26 | 13.9 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 4-Chlorotoluene | < 1.98 | 3.96 | U | ug/Kg dry | 0.868 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 4-Isopropyltoluene | < 3.96 | 7.93 | U | ug/Kg dry | 1.16 | 3.96 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| 4-Methyl-2-pentanone | < 13.9 | 27.7 | U | ug/Kg dry | 4.04 | 13.9 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Acetone | < 34.7 | 69.4 | U | ug/Kg dry | 12.0 | 34.7 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Acetonitrile | < 99.1 | 198 | U | ug/Kg dry | 30.9 | 99.1 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Acrolein | < 19.8 | 39.6 | U | ug/Kg dry | 8.32 | 19.8 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Acrylonitrile | < 1.98 | 3.96 | U | ug/Kg dry | 0.971 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Benzene | < 0.991 | 1.98 | U | ug/Kg dry | 0.285 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Bromobenzene | < 1.98 | 3.96 | U | ug/Kg dry | 0.557 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Bromochloromethane | < 1.98 | 3.96 | U | ug/Kg dry | 0.695 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-31-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 16:10
**Matrix:** Soil
**Lab ID:** O24J0276-17 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5035 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.991 | 1.98 | U | ug/Kg dry | 0.477 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Bromoform | < 1.98 | 3.96 | U | ug/Kg dry | 0.624 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Bromomethane | < 9.91 | 19.8 | U | ug/Kg dry | 2.38 | 9.91 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Carbon disulfide | < 1.98 | 3.96 | Q, U | ug/Kg dry | 0.596 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Carbon tetrachloride | < 9.91 | 19.8 | U | ug/Kg dry | 2.76 | 9.91 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Chlorobenzene | < 1.98 | 3.96 | U | ug/Kg dry | 0.515 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Chloroethane | < 3.96 | 7.93 | U | ug/Kg dry | 1.40 | 3.96 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Chloroform | < 1.98 | 3.96 | U | ug/Kg dry | 0.725 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Chloromethane | < 3.96 | 7.93 | U | ug/Kg dry | 1.45 | 3.96 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| **cis-1,2-Dichloroethene** | **418** | 17.6 | | ug/Kg dry | 3.47 | 8.81 | 10/15/24 13:25 | B24J0919 | TC1 | 50 |
| cis-1,3-Dichloropropene | < 1.98 | 3.96 | U | ug/Kg dry | 0.686 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Cyclohexane | < 4.95 | 9.91 | U | ug/Kg dry | 1.53 | 4.95 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Dibromochloromethane | < 0.991 | 1.98 | U | ug/Kg dry | 0.471 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Dibromomethane | < 0.991 | 1.98 | U | ug/Kg dry | 0.362 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Dichlorodifluoromethane | < 4.95 | 9.91 | U | ug/Kg dry | 1.20 | 4.95 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Ethylbenzene | < 3.96 | 7.93 | U | ug/Kg dry | 1.03 | 3.96 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Isobutanol | < 39.6 | 79.3 | U | ug/Kg dry | 10.5 | 39.6 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Isopropanol | < 39.6 | 79.3 | U | ug/Kg dry | 17.2 | 39.6 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Isopropylbenzene | < 1.98 | 3.96 | U | ug/Kg dry | 0.984 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| m,p-Xylene | < 3.96 | 7.93 | U | ug/Kg dry | 1.60 | 3.96 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Methyl tert-butyl ether | < 0.991 | 1.98 | U | ug/Kg dry | 0.331 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Methylene chloride | < 9.91 | 19.8 | U | ug/Kg dry | 3.89 | 9.91 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| n-Butylbenzene | < 9.91 | 19.8 | U | ug/Kg dry | 2.83 | 9.91 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| n-Propylbenzene | < 1.98 | 3.96 | U | ug/Kg dry | 0.948 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Naphthalene | < 19.8 | 39.6 | Q, U | ug/Kg dry | 9.84 | 19.8 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| o-Xylene | < 3.96 | 7.93 | U | ug/Kg dry | 1.01 | 3.96 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| sec-Butylbenzene | < 1.98 | 3.96 | U | ug/Kg dry | 0.972 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Styrene | < 3.96 | 7.93 | U | ug/Kg dry | 1.09 | 3.96 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| tert-Butylbenzene | < 1.98 | 3.96 | U | ug/Kg dry | 0.377 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Tetrachloroethene | < 1.98 | 3.96 | U | ug/Kg dry | 0.579 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Tetrahydrofuran | < 4.95 | 9.91 | U | ug/Kg dry | 1.43 | 4.95 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Toluene | < 0.991 | 1.98 | U | ug/Kg dry | 0.358 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| trans-1,2-Dichloroethene | < 1.98 | 3.96 | U | ug/Kg dry | 0.917 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| trans-1,3-Dichloropropene | < 1.98 | 3.96 | U | ug/Kg dry | 0.811 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| **Trichloroethene** | **8.73** | 1.98 | | ug/Kg dry | 0.481 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Trichlorofluoromethane | < 0.991 | 1.98 | U | ug/Kg dry | 0.411 | 0.991 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Vinyl acetate | < 1.98 | 3.96 | U | ug/Kg dry | 0.505 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-31-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 16:10
**Matrix:** Soil
**Lab ID:** O24J0276-17 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5035 (Continued)** | | | | | | | | | | |
| Vinyl chloride | < 1.98 | 3.96 | U | ug/Kg dry | 0.708 | 1.98 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| Xylenes, Total | < 5.94 | 11.9 | U | ug/Kg dry | 2.54 | 5.94 | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| **1,2-Dichloroethene, Total** | **418** | 44.1 | | ug/Kg dry | 5.27 | 22.0 | 10/15/24 13:25 | B24J0919 | TC1 | 50 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 96%* | *Limits: 78-119* | | *10/09/24 14:44* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 92%* | *Limits: 71-136* | | *10/09/24 14:44* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 99%* | *Limits: 81-114* | | *10/09/24 14:44* | *B24J0625* | *TC1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 97%* | *Limits: 85-116* | | *10/09/24 14:44* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 105%* | *Limits: 79-119* | | *10/09/24 14:44* | *B24J0625* | *TC1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 104%* | *Limits: 78-121* | | *10/09/24 14:44* | *B24J0625* | *TC1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030B** | | | | | | | | | | |
| **2-Butene** | **2.02** | | | ug/Kg | | | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| **unknown** | **3.88** | | | ug/Kg | | | 10/09/24 14:44 | B24J0625 | TC1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3550** | | | | | | | | | | |
| 1-Methylnaphthalene | < 8.62 | 17.2 | U | ug/Kg dry | 2.75 | 8.62 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| 2-Methylnaphthalene | < 8.62 | 17.2 | U | ug/Kg dry | 2.92 | 8.62 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Acenaphthene | < 8.62 | 17.2 | U | ug/Kg dry | 3.15 | 8.62 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Acenaphthylene | < 10.8 | 17.2 | U | ug/Kg dry | 4.68 | 10.8 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Anthracene | < 10.8 | 17.2 | U | ug/Kg dry | 4.40 | 10.8 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Benzo(a)anthracene | < 8.62 | 17.2 | U | ug/Kg dry | 3.44 | 8.62 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Benzo(a)pyrene | < 8.62 | 17.2 | U | ug/Kg dry | 2.63 | 8.62 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Benzo(b)fluoranthene | < 10.8 | 17.2 | U | ug/Kg dry | 5.55 | 10.8 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Benzo(g,h,i)perylene | < 10.8 | 17.2 | U | ug/Kg dry | 5.38 | 10.8 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Benzo(k)fluoranthene | < 10.8 | 17.2 | U | ug/Kg dry | 4.50 | 10.8 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Chrysene | < 8.62 | 17.2 | U | ug/Kg dry | 3.62 | 8.62 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Dibenzo(a,h)anthracene | < 10.8 | 17.2 | U | ug/Kg dry | 4.35 | 10.8 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Fluoranthene | < 10.8 | 17.2 | U | ug/Kg dry | 5.37 | 10.8 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Fluorene | < 8.62 | 17.2 | U | ug/Kg dry | 4.11 | 8.62 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Indeno(1,2,3-cd)pyrene | < 10.8 | 17.2 | U | ug/Kg dry | 4.38 | 10.8 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Naphthalene | < 10.8 | 17.2 | U | ug/Kg dry | 5.17 | 10.8 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Phenanthrene | < 8.62 | 17.2 | U | ug/Kg dry | 4.23 | 8.62 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| Pyrene | < 10.8 | 17.2 | U | ug/Kg dry | 2.36 | 10.8 | 10/11/24 20:08 | B24J0527 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 88%* | *Limits: 57-119* | | *10/11/24 20:08* | *B24J0527* | *MS5* | 1 |
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 85%* | *Limits: 54-133* | | *10/11/24 20:08* | *B24J0527* | *MS5* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-31-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 16:10
**Matrix:** Soil
**Lab ID:** O24J0276-17 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 16.6 | 24.8 | U | ug/Kg dry | 4.68 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 1,2-Dichlorobenzene | < 16.6 | 24.8 | U | ug/Kg dry | 4.31 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 1,3-Dichlorobenzene | < 12.4 | 24.8 | U | ug/Kg dry | 4.10 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 1,4-Dichlorobenzene | < 16.6 | 24.8 | U | ug/Kg dry | 3.93 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 1-Methylnaphthalene | < 12.4 | 24.8 | U | ug/Kg dry | 4.66 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2,4,5-Trichlorophenol | < 8.28 | 16.6 | U | ug/Kg dry | 2.94 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2,4,6-Trichlorophenol | < 8.28 | 16.6 | U | ug/Kg dry | 5.48 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2,4-Dichlorophenol | < 8.28 | 16.6 | U | ug/Kg dry | 2.65 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2,4-Dimethylphenol | < 24.8 | 49.7 | U | ug/Kg dry | 3.41 | 24.8 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2,4-Dinitrophenol | < 248 | 414 | U | ug/Kg dry | 56.3 | 248 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2,4-Dinitrotoluene | < 16.6 | 24.8 | U | ug/Kg dry | 5.46 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2,6-Dichlorophenol | < 8.28 | 16.6 | U | ug/Kg dry | 2.61 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2,6-Dinitrotoluene | < 8.28 | 16.6 | U | ug/Kg dry | 2.95 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2-Chloronaphthalene | < 8.28 | 16.6 | U | ug/Kg dry | 3.52 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2-Chlorophenol | < 8.28 | 16.6 | U | ug/Kg dry | 3.70 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2-Methylnaphthalene | < 12.4 | 24.8 | U | ug/Kg dry | 4.04 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2-Methylphenol | < 4.14 | 8.28 | U | ug/Kg dry | 1.90 | 4.14 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2-Nitroaniline | < 16.6 | 24.8 | U | ug/Kg dry | 5.04 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 2-Nitrophenol | < 16.6 | 24.8 | U | ug/Kg dry | 6.94 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 49.7 | 99.3 | U | ug/Kg dry | 15.8 | 49.7 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 3 & 4-Methylphenol | < 16.6 | 33.1 | U | ug/Kg dry | 6.46 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 3-Nitroaniline | < 16.6 | 24.8 | U | ug/Kg dry | 8.81 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 331 | 662 | U | ug/Kg dry | 97.7 | 331 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 4-Bromophenyl-phenylether | < 12.4 | 24.8 | U | ug/Kg dry | 4.39 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 4-Chloro-3-methylphenol | < 8.28 | 16.6 | U | ug/Kg dry | 2.27 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 4-Chloroaniline | < 12.4 | 24.8 | U | ug/Kg dry | 3.98 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 12.4 | 24.8 | U | ug/Kg dry | 4.20 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 4-Nitroaniline | < 16.6 | 33.1 | U | ug/Kg dry | 3.29 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| 4-Nitrophenol | < 331 | 662 | U | ug/Kg dry | 110 | 331 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Acenaphthene | < 8.28 | 16.6 | U | ug/Kg dry | 3.32 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Acenaphthylene | < 8.28 | 16.6 | U | ug/Kg dry | 3.73 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Aniline | < 99.3 | 166 | U | ug/Kg dry | 5.85 | 99.3 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Anthracene | < 12.4 | 24.8 | U | ug/Kg dry | 4.78 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 8.28 | 16.6 | U | ug/Kg dry | 2.37 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Benzidine | < 662 | 2,760 | U | ug/Kg dry | 140 | 662 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Benzo(a)anthracene | < 12.4 | 24.8 | U | ug/Kg dry | 4.15 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-31-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 16:10
**Matrix:** Soil
**Lab ID:** O24J0276-17 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3550 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzo(a)pyrene | < 33.1 | 66.2 | U | ug/Kg dry | 5.07 | 33.1 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Benzo(b)fluoranthene | < 16.6 | 24.8 | U | ug/Kg dry | 6.64 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Benzo(g,h,i)perylene | < 16.6 | 33.1 | U | ug/Kg dry | 3.68 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Benzo(k)fluoranthene | < 16.6 | 33.1 | U | ug/Kg dry | 4.04 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Benzoic acid | < 331 | 1,320 | U | ug/Kg dry | 82.3 | 331 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Benzyl alcohol | < 12.4 | 24.8 | U | ug/Kg dry | 4.25 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 8.28 | 16.6 | U | ug/Kg dry | 3.62 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Bis(2-chloroethyl)ether | < 331 | 414 | U | ug/Kg dry | 43.9 | 331 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 99.3 | 166 | U | ug/Kg dry | 28.0 | 99.3 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Butyl benzyl phthalate | < 24.8 | 49.7 | U | ug/Kg dry | 6.86 | 24.8 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Carbazole | < 8.28 | 16.6 | U | ug/Kg dry | 2.79 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Chrysene | < 8.28 | 16.6 | U | ug/Kg dry | 2.64 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Dibenzo(a,h)anthracene | < 12.4 | 24.8 | U | ug/Kg dry | 10.1 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Dibenzofuran | < 12.4 | 24.8 | U | ug/Kg dry | 3.68 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Diethyl phthalate | < 99.3 | 166 | U | ug/Kg dry | 28.6 | 99.3 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Dimethyl phthalate | < 8.28 | 16.6 | U | ug/Kg dry | 3.32 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Di-n-butyl phthalate | < 24.8 | 49.7 | U | ug/Kg dry | 9.21 | 24.8 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| **Di-n-octyl phthalate** | **9.38** | 24.8 | J | ug/Kg dry | 6.07 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Fluoranthene | < 16.6 | 24.8 | U | ug/Kg dry | 5.37 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Fluorene | < 8.28 | 16.6 | U | ug/Kg dry | 3.26 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Hexachlorobenzene | < 8.28 | 16.6 | U | ug/Kg dry | 3.19 | 8.28 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Hexachlorobutadiene | < 16.6 | 33.1 | U | ug/Kg dry | 5.10 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Hexachlorocyclopentadiene | < 331 | 662 | U | ug/Kg dry | 62.3 | 331 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Hexachloroethane | < 16.6 | 33.1 | U | ug/Kg dry | 4.54 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 16.6 | 24.8 | U | ug/Kg dry | 6.56 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Isophorone | < 12.4 | 24.8 | U | ug/Kg dry | 3.17 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Naphthalene | < 16.6 | 24.8 | U | ug/Kg dry | 4.76 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Nitrobenzene | < 16.6 | 33.1 | U | ug/Kg dry | 4.29 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| N-Nitrosodimethylamine | < 16.6 | 33.1 | U | ug/Kg dry | 6.27 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 24.8 | 49.7 | U | ug/Kg dry | 7.77 | 24.8 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| N-Nitrosodiphenylamine | < 16.6 | 24.8 | U | ug/Kg dry | 5.74 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| N-Nitrosopyrrolidine | < 16.6 | 24.8 | U | ug/Kg dry | 5.56 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Pentachlorophenol | < 248 | 414 | U | ug/Kg dry | 44.6 | 248 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Phenanthrene | < 12.4 | 24.8 | U | ug/Kg dry | 4.29 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Phenol | < 16.6 | 33.1 | U | ug/Kg dry | 4.57 | 16.6 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Pyrene | < 12.4 | 24.8 | U | ug/Kg dry | 4.56 | 12.4 | 10/16/24 18:31 | B24J0789 | LP | 1 |
| Pyridine | < 331 | 662 | U | ug/Kg dry | 41.4 | 331 | 10/16/24 18:31 | B24J0789 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-31-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 16:10
**Matrix:** Soil
**Lab ID:** O24J0276-17 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3550 (Continued)** | | | | | | | | | | |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 76%* | *Limits: 35-115* | | *10/16/24 18:31* | *B24J0789* | *LP* | 1 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 83%* | *Limits: 33-122* | | *10/16/24 18:31* | *B24J0789* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 80%* | *Limits: 37-122* | | *10/16/24 18:31* | *B24J0789* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 72%* | *Limits: 44-115* | | *10/16/24 18:31* | *B24J0789* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 83%* | *Limits: 39-132* | | *10/16/24 18:31* | *B24J0789* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 81%* | *Limits: 54-127* | | *10/16/24 18:31* | *B24J0789* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3546** | | | | | | | | | | |
| Aroclor 1016 | < 0.109 | 0.218 | U | mg/Kg dry | 0.0414 | 0.109 | 10/09/24 01:28 | B24J0270 | AY1 | 1 |
| Aroclor 1221 | < 0.544 | 0.653 | U | mg/Kg dry | 0.237 | 0.544 | 10/09/24 01:28 | B24J0270 | AY1 | 1 |
| Aroclor 1232 | < 0.653 | 0.871 | U | mg/Kg dry | 0.310 | 0.653 | 10/09/24 01:28 | B24J0270 | AY1 | 1 |
| Aroclor 1242 | < 0.218 | 0.327 | U | mg/Kg dry | 0.0719 | 0.218 | 10/09/24 01:28 | B24J0270 | AY1 | 1 |
| Aroclor 1248 | < 0.218 | 0.327 | U | mg/Kg dry | 0.0664 | 0.218 | 10/09/24 01:28 | B24J0270 | AY1 | 1 |
| Aroclor 1254 | < 0.109 | 0.218 | U | mg/Kg dry | 0.0359 | 0.109 | 10/09/24 01:28 | B24J0270 | AY1 | 1 |
| Aroclor 1260 | < 0.272 | 0.327 | U | mg/Kg dry | 0.127 | 0.272 | 10/09/24 01:28 | B24J0270 | AY1 | 1 |
| Aroclor 1262 | < 0.109 | 0.327 | U | mg/Kg dry | 0.0294 | 0.109 | 10/09/24 01:28 | B24J0270 | AY1 | 1 |
| Aroclor 1268 | < 0.218 | 0.327 | U | mg/Kg dry | 0.0599 | 0.218 | 10/09/24 01:28 | B24J0270 | AY1 | 1 |
| Total PCB | < 0.653 | 0.871 | U | mg/Kg dry | 0.310 | 0.653 | 10/09/24 01:28 | B24J0270 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 103%* | *Limits: 10-127* | | *10/09/24 01:28* | *B24J0270* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 78%* | *Limits: 44-130* | | *10/09/24 01:28* | *B24J0270* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3546** | | | | | | | | | | |
| 4,4'-DDD | < 4.36 | 8.71 | U | ug/Kg dry | 1.66 | 4.36 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| 4,4'-DDE | < 2.18 | 4.36 | U | ug/Kg dry | 1.07 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| 4,4'-DDT | < 4.36 | 8.71 | U | ug/Kg dry | 2.14 | 4.36 | 10/18/24 01:47 | B24J0269 | NL1 | 1 |
| Aldrin | < 2.18 | 4.36 | U | ug/Kg dry | 0.646 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| alpha-BHC | < 2.18 | 4.36 | U | ug/Kg dry | 0.958 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| alpha-Chlordane | < 2.18 | 4.36 | U | ug/Kg dry | 0.769 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| beta-BHC | < 4.36 | 8.71 | U | ug/Kg dry | 1.22 | 4.36 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| Chlordane | < 21.8 | 43.6 | U | ug/Kg dry | 10.5 | 21.8 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| delta-BHC | < 2.18 | 4.36 | U | ug/Kg dry | 1.02 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| Dieldrin | < 2.18 | 4.36 | U | ug/Kg dry | 0.677 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| Endosulfan I | < 2.18 | 4.36 | U | ug/Kg dry | 1.04 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| Endosulfan II | < 2.18 | 4.36 | U | ug/Kg dry | 0.989 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| Endosulfan sulfate | < 4.36 | 8.71 | U | ug/Kg dry | 1.15 | 4.36 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-31-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 16:10
**Matrix:** Soil
**Lab ID:** O24J0276-17 (Continued)

**Sterling Labs**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3546 (Continued)** | | | | | | | | | | |
| Endrin | < 2.18 | 4.36 | U | ug/Kg dry | 0.785 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| Endrin aldehyde | < 4.36 | 8.71 | U | ug/Kg dry | 1.27 | 4.36 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| Endrin ketone | < 4.36 | 8.71 | U | ug/Kg dry | 1.35 | 4.36 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| gamma-BHC | < 2.18 | 4.36 | U | ug/Kg dry | 0.926 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| gamma-Chlordane | < 4.36 | 8.71 | U | ug/Kg dry | 1.87 | 4.36 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| Heptachlor | < 2.18 | 4.36 | U | ug/Kg dry | 1.07 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| Heptachlor epoxide | < 2.18 | 4.36 | U | ug/Kg dry | 1.20 | 2.18 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| Methoxychlor | < 4.36 | 8.71 | U | ug/Kg dry | 2.10 | 4.36 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| Toxaphene | < 272 | 544 | U | ug/Kg dry | 183 | 272 | 10/18/24 01:30 | B24J0269 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 96%* | *Limits: 23-110* | | *10/18/24 01:30* | *B24J0269* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 100%* | *Limits: 42-129* | | *10/18/24 01:30* | *B24J0269* | *NL1* | 1 |
| ***Metals by ICP-AES*** | | | | | | | | | | |
| **Method: SW6010D / SW3050** | | | | | | | | | | |
| **Aluminum** | **4,410** | 59.3 | D | mg/Kg dry | 8.21 | 47.4 | 10/09/24 16:36 | B24J0437 | CS2 | 10 |
| Antimony | < 0.949 | 1.19 | U | mg/Kg dry | 0.474 | 0.949 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Arsenic** | **1.99** | 1.19 | | mg/Kg dry | 0.342 | 0.949 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Barium** | **6.67** | 1.19 | | mg/Kg dry | 0.185 | 0.474 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Beryllium** | **0.138** | 0.119 | | mg/Kg dry | 0.0285 | 0.0949 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Cadmium** | **0.420** | 0.119 | | mg/Kg dry | 0.0237 | 0.0474 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Calcium** | **354** | 11.9 | B | mg/Kg dry | 4.74 | 9.49 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Chromium** | **24.4** | 1.19 | | mg/Kg dry | 0.327 | 0.949 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Cobalt** | **1.93** | 1.19 | | mg/Kg dry | 0.185 | 0.474 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Copper** | **1.73** | 1.19 | | mg/Kg dry | 0.280 | 0.949 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Iron** | **17,600** | 59.3 | D, B | mg/Kg dry | 28.5 | 56.9 | 10/09/24 16:36 | B24J0437 | CS2 | 10 |
| **Lead** | **11.8** | 1.19 | | mg/Kg dry | 0.285 | 0.949 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Magnesium** | **230** | 5.93 | B | mg/Kg dry | 1.90 | 5.69 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Magnesium** | **211** | 5.87 | | mg/Kg dry | 1.88 | 5.64 | 11/11/24 13:32 | B24K0386 | CS2 | 1 |
| **Manganese** | **42.0** | 1.19 | | mg/Kg dry | 0.199 | 0.474 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Nickel** | **4.24** | 1.19 | | mg/Kg dry | 0.209 | 0.474 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Potassium** | **127** | 12.3 | | mg/Kg dry | 7.60 | 11.8 | 11/15/24 16:53 | B24K0661 | CS2 | 1 |
| Selenium | < 0.949 | 1.19 | Q, U | mg/Kg dry | 0.342 | 0.949 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| Silver | < 0.949 | 1.19 | U | mg/Kg dry | 0.237 | 0.949 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Sodium** | **36.7** | 11.7 | | mg/Kg dry | 5.64 | 11.3 | 11/11/24 13:32 | B24K0386 | CS2 | 1 |
| Thallium | < 0.949 | 1.19 | U | mg/Kg dry | 0.455 | 0.949 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Vanadium** | **16.9** | 1.19 | | mg/Kg dry | 0.161 | 0.474 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |
| **Zinc** | **10.5** | 4.74 | | mg/Kg dry | 1.02 | 2.37 | 10/09/24 14:53 | B24J0437 | CS2 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** SB-109-31-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 16:10
**Matrix:** Soil
**Lab ID:** O24J0276-17 (Continued)

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sterling Labs** | | | | | | | | | | |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7471B** | | | | | | | | | | |
| Mercury | < 0.0284 | 0.0473 | U | mg/Kg dry | 0.0142 | 0.0284 | 10/15/24 12:23 | B24J0796 | GS1 | 1 |
| ***Wet Chemistry*** | | | | | | | | | | |
| **Method: SM2540G** | | | | | | | | | | |
| **Total Solids** | **90.5** | 0.100 | | % (Percent) | 0.0240 | 0.0500 | 10/09/24 06:00 | B24J0422 | AA1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** RB-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 17:07
**Matrix:** Water
**Lab ID:** O24J0276-18

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5030**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.200 | 0.500 | U | ug/L | 0.0650 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,1,1-Trichloroethane | < 0.200 | 0.500 | U | ug/L | 0.0880 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.200 | 0.500 | U | ug/L | 0.0620 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,1,2-Trichloroethane | < 0.200 | 0.500 | U | ug/L | 0.0832 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,1-Dichloroethane | < 0.200 | 0.500 | U | ug/L | 0.0700 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,1-Dichloroethene | < 0.200 | 0.500 | U | ug/L | 0.0954 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,1-Dichloropropene | < 0.200 | 0.500 | U | ug/L | 0.0699 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,2,3-Trichlorobenzene | < 2.00 | 5.00 | U | ug/L | 0.739 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,2,3-Trichloropropane | < 0.200 | 0.500 | U | ug/L | 0.0913 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,2,4-Trichlorobenzene | < 5.00 | 10.0 | U | ug/L | 2.20 | 5.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,2,4-Trimethylbenzene | < 2.00 | 5.00 | U | ug/L | 0.558 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 0.200 | 0.500 | U | ug/L | 0.0220 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,2-Dibromoethane | < 0.200 | 0.500 | U | ug/L | 0.0531 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,2-Dichlorobenzene | < 1.00 | 2.00 | U | ug/L | 0.295 | 1.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,2-Dichloroethane | < 0.200 | 0.500 | U | ug/L | 0.0400 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,2-Dichloropropane | < 0.200 | 0.500 | U | ug/L | 0.0430 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,3,5-Trimethylbenzene | < 2.00 | 5.00 | U | ug/L | 0.539 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,3-Dichlorobenzene | < 0.200 | 0.500 | U | ug/L | 0.0724 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,3-Dichloropropane | < 0.200 | 0.500 | U | ug/L | 0.0280 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,4-Dioxane | < 6.00 | 12.0 | U | ug/L | 2.99 | 6.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1,4-Dichlorobenzene | < 2.00 | 5.00 | U | ug/L | 0.709 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 1-Propanol | < 100 | 200 | U | ug/L | 29.8 | 100 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 2,2-Dichloropropane | < 0.200 | 0.500 | U | ug/L | 0.0920 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 2-Butanone | < 2.00 | 5.00 | U | ug/L | 0.913 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 2-Chloroethyl vinyl ether | < 1.00 | 2.00 | U | ug/L | 0.419 | 1.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 2-Chlorotoluene | < 1.00 | 2.00 | U | ug/L | 0.475 | 1.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 2-Hexanone | < 0.200 | 2.00 | U | ug/L | 0.0720 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 4-Chlorotoluene | < 0.200 | 0.500 | U | ug/L | 0.0921 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 4-Isopropyltoluene | < 2.00 | 5.00 | U | ug/L | 0.612 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| 4-Methyl-2-pentanone | < 0.500 | 1.00 | U | ug/L | 0.135 | 0.500 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Acetone | < 2.00 | 5.00 | U | ug/L | 0.518 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Acetonitrile | < 4.00 | 5.00 | U | ug/L | 1.01 | 4.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Acrolein | < 2.00 | 5.00 | U | ug/L | 0.577 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Acrylonitrile | < 0.500 | 1.00 | U | ug/L | 0.216 | 0.500 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Benzene | < 1.00 | 2.00 | U | ug/L | 0.250 | 1.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Bromobenzene | < 0.500 | 1.00 | U | ug/L | 0.207 | 0.500 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Bromochloromethane | < 0.200 | 0.500 | U | ug/L | 0.0670 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** RB-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 17:07
**Matrix:** Water
**Lab ID:** O24J0276-18 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5030 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.200 | 0.500 | U | ug/L | 0.0531 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Bromoform | < 0.400 | 1.00 | U | ug/L | 0.103 | 0.400 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Bromomethane | < 5.00 | 10.0 | U | ug/L | 1.44 | 5.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Carbon disulfide | < 2.00 | 5.00 | U | ug/L | 0.791 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Carbon tetrachloride | < 0.200 | 0.500 | U | ug/L | 0.0844 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Chlorobenzene | < 0.200 | 0.500 | U | ug/L | 0.0650 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Chloroethane | < 0.500 | 1.00 | U | ug/L | 0.155 | 0.500 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Chloroform | < 0.500 | 1.00 | U | ug/L | 0.192 | 0.500 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Chloromethane | < 0.500 | 1.00 | U | ug/L | 0.192 | 0.500 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| **cis-1,2-Dichloroethene** | **0.760** | 0.500 | | ug/L | 0.103 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| cis-1,3-Dichloropropene | < 0.200 | 0.500 | U | ug/L | 0.0587 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Cyclohexane | < 0.200 | 0.500 | U | ug/L | 0.0862 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Dibromochloromethane | < 0.200 | 0.500 | U | ug/L | 0.0360 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Dibromomethane | < 0.200 | 0.500 | U | ug/L | 0.0817 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Dichlorodifluoromethane | < 0.500 | 1.00 | U | ug/L | 0.130 | 0.500 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Ethylbenzene | < 2.00 | 5.00 | U | ug/L | 0.634 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Ethyl ether | < 0.200 | 0.500 | U | ug/L | 0.0770 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Hexachlorobutadiene | < 4.00 | 10.0 | U | ug/L | 1.17 | 4.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Isobutanol | < 5.00 | 20.0 | U | ug/L | 2.48 | 5.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Isopropanol | < 5.00 | 10.0 | U | ug/L | 2.42 | 5.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Isopropylbenzene | < 2.00 | 5.00 | U | ug/L | 0.0549 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| m,p-Xylene | < 5.00 | 10.0 | U | ug/L | 1.29 | 5.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Methyl tert-butyl ether | < 10.0 | 20.0 | U | ug/L | 0.226 | 10.0 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Methylene chloride | < 10.0 | 20.0 | U | ug/L | 2.60 | 10.0 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| n-Butylbenzene | < 0.500 | 1.00 | U | ug/L | 0.130 | 0.500 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| n-Propylbenzene | < 0.200 | 0.500 | U | ug/L | 0.0630 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Naphthalene | < 2.00 | 5.00 | U | ug/L | 0.720 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| o-Xylene | < 1.00 | 2.00 | U | ug/L | 0.429 | 1.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| sec-Butylbenzene | < 2.00 | 5.00 | U | ug/L | 0.613 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Styrene | < 2.00 | 5.00 | U | ug/L | 0.618 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| tert-Butylbenzene | < 2.00 | 5.00 | U | ug/L | 0.710 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Tetrachloroethene | < 4.00 | 5.00 | U | ug/L | 1.11 | 4.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Tetrahydrofuran | < 4.00 | 5.00 | U | ug/L | 1.27 | 4.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Toluene | < 2.00 | 5.00 | U | ug/L | 0.701 | 2.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| trans-1,2-Dichloroethene | < 0.200 | 0.500 | U | ug/L | 0.0855 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| trans-1,3-Dichloropropene | < 0.200 | 0.500 | U | ug/L | 0.0587 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Trichloroethene | < 1.00 | 2.00 | U | ug/L | 0.294 | 1.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** RB-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 17:07
**Matrix:** Water
**Lab ID:** O24J0276-18 (Continued)

**Sterling Labs**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5030 (Continued)** | | | | | | | | | | |
| Trichlorofluoromethane | < 0.200 | 0.500 | U | ug/L | 0.0505 | 0.200 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Vinyl acetate | < 0.500 | 1.00 | U | ug/L | 0.147 | 0.500 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Vinyl chloride | < 0.500 | 1.00 | U | ug/L | 0.129 | 0.500 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| Xylenes, Total | < 5.00 | 10.0 | U | ug/L | 1.71 | 5.00 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| **1,2-Dichloroethene, Total** | **0.760** | 1.00 | J | ug/L | 0.188 | 0.400 | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 96%* | *Limits: 80-119* | | *10/03/24 19:10* | *B24J0265* | *WH1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 99%* | *Limits: 81-118* | | *10/03/24 19:10* | *B24J0265* | *WH1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 100%* | *Limits: 80-116* | | *10/03/24 19:10* | *B24J0265* | *WH1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 99%* | *Limits: 89-112* | | *10/03/24 19:10* | *B24J0265* | *WH1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 99%* | *Limits: 85-114* | | *10/03/24 19:10* | *B24J0265* | *WH1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 101%* | *Limits: 87-138* | | *10/03/24 19:10* | *B24J0265* | *WH1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030** | | | | | | | | | | |
| No TICs found | | | | ug/L | | | 10/03/24 19:10 | B24J0265 | WH1 | 1 |
| ***Semivolatile Organic Compounds by GC/MS*** | | | | | | | | | | |
| **Method: SW8270D SIM / SW3510** | | | | | | | | | | |
| 1-Methylnaphthalene | < 0.121 | 0.161 | U | ug/L | 0.0182 | 0.121 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **2-Methylnaphthalene** | **0.0254** | 0.161 | J | ug/L | 0.0173 | 0.121 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Acenaphthene** | **0.0231** | 0.121 | J | ug/L | 0.0143 | 0.0807 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| Acenaphthylene | < 0.0807 | 0.121 | U | ug/L | 0.0131 | 0.0807 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Anthracene** | **0.0539** | 0.0807 | J | ug/L | 0.0201 | 0.0606 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Benzo(a)anthracene** | **0.147** | 0.121 | | ug/L | 0.0325 | 0.0807 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Benzo(a)pyrene** | **0.164** | 0.0807 | | ug/L | 0.0260 | 0.0606 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Benzo(b)fluoranthene** | **0.159** | 0.0807 | B | ug/L | 0.0292 | 0.0606 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Benzo(g,h,i)perylene** | **0.159** | 0.121 | | ug/L | 0.0309 | 0.0807 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Benzo(k)fluoranthene** | **0.138** | 0.121 | | ug/L | 0.0388 | 0.0807 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Chrysene** | **0.155** | 0.161 | J | ug/L | 0.0450 | 0.121 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Dibenzo(a,h)anthracene** | **0.171** | 0.161 | | ug/L | 0.0420 | 0.121 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Fluoranthene** | **0.135** | 0.121 | B | ug/L | 0.0337 | 0.0807 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Fluorene** | **0.0313** | 0.121 | J | ug/L | 0.0171 | 0.0807 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Indeno(1,2,3-cd)pyrene** | **0.182** | 0.121 | | ug/L | 0.0352 | 0.0807 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Naphthalene** | **0.0889** | 0.121 | J, B | ug/L | 0.0141 | 0.0807 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Phenanthrene** | **0.0834** | 0.161 | J | ug/L | 0.0576 | 0.121 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| **Pyrene** | **0.136** | 0.0807 | B | ug/L | 0.0257 | 0.0606 | 10/09/24 14:34 | B24J0426 | MS5 | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | | | | *Recovery: 84%* | *Limits: 32-114* | | *10/09/24 14:34* | *B24J0426* | *MS5* | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** RB-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 17:07
**Matrix:** Water
**Lab ID:** O24J0276-18 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270D SIM / SW3510 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| *Surrogate: Fluoranthene-d10* | | | | *Recovery: 88%* | *Limits: 49-130* | | *10/09/24 14:34* | *B24J0426* | *MS5* | 1 |
| **Method: SW8270E / SW3510** | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | < 0.969 | 1.94 | U | ug/L | 0.271 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 1,2-Dichlorobenzene | < 0.969 | 1.94 | U | ug/L | 0.291 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 1,2-Dinitrobenzene | < 9.69 | 29.1 | U | ug/L | 3.57 | 9.69 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 1,3-Dichlorobenzene | < 0.969 | 1.94 | U | ug/L | 0.300 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 1,4-Dichlorobenzene | < 0.969 | 1.94 | U | ug/L | 0.271 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 1,4-Dinitrobenzene | < 9.69 | 29.1 | U | ug/L | 2.67 | 9.69 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 1-Methylnaphthalene | < 1.94 | 3.88 | U | ug/L | 0.523 | 1.94 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2,3,4,6-Tetrachlorophenol | < 4.85 | 14.5 | U | ug/L | 2.25 | 4.85 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2,4,5-Trichlorophenol | < 0.485 | 0.969 | U | ug/L | 0.125 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2,4,6-Trichlorophenol | < 0.485 | 0.969 | U | ug/L | 0.236 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2,4-Dichlorophenol | < 0.485 | 0.969 | U | ug/L | 0.0764 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2,4-Dimethylphenol | < 0.969 | 1.94 | U | ug/L | 0.114 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2,4-Dinitrophenol | < 9.69 | 29.1 | U | ug/L | 3.21 | 9.69 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2,4-Dinitrotoluene | < 0.969 | 1.94 | U | ug/L | 0.244 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2,6-Dichlorophenol | < 0.485 | 0.969 | U | ug/L | 0.141 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2,6-Dinitrotoluene | < 0.485 | 0.969 | U | ug/L | 0.223 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2-Chloronaphthalene | < 0.291 | 0.581 | U | ug/L | 0.103 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2-Chlorophenol | < 0.485 | 0.969 | U | ug/L | 0.149 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2-Methylnaphthalene | < 1.94 | 3.88 | U | ug/L | 0.620 | 1.94 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2-Methylphenol | < 0.485 | 0.969 | U | ug/L | 0.177 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2-Nitroaniline | < 9.69 | 29.1 | U | ug/L | 2.48 | 9.69 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 2-Nitrophenol | < 0.485 | 0.969 | U | ug/L | 0.203 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 3,3´-Dichlorobenzidine | < 9.69 | 19.4 | U | ug/L | 3.07 | 9.69 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 3 & 4-Methylphenol | < 0.485 | 0.969 | U | ug/L | 0.174 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 3-Nitroaniline | < 0.969 | 1.94 | U | ug/L | 0.349 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 4,6-Dinitro-2-methylphenol | < 4.85 | 14.5 | U | ug/L | 2.38 | 4.85 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 4-Bromophenyl-phenylether | < 0.485 | 0.969 | U | ug/L | 0.155 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 4-Chloro-3-methylphenol | < 0.194 | 0.485 | U | ug/L | 0.0691 | 0.194 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 4-Chloroaniline | < 0.291 | 0.581 | U | ug/L | 0.103 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 4-Chlorophenyl-phenylether | < 0.485 | 0.969 | U | ug/L | 0.141 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 4-Nitroaniline | < 9.69 | 29.1 | U | ug/L | 3.66 | 9.69 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| 4-Nitrophenol | < 4.85 | 14.5 | U | ug/L | 1.39 | 4.85 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Acenaphthene | < 0.291 | 0.581 | U | ug/L | 0.101 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Acenaphthylene | < 0.291 | 0.581 | U | ug/L | 0.126 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** RB-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 17:07
**Matrix:** Water
**Lab ID:** O24J0276-18 (Continued)

### Sterling Labs

***Semivolatile Organic Compounds by GC/MS (Continued)***

**Method: SW8270E / SW3510 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Aniline | < 0.291 | 0.969 | U | ug/L | 0.0857 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Anthracene | < 0.291 | 0.581 | U | ug/L | 0.108 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | < 0.291 | 0.969 | U | ug/L | 0.0743 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Benzidine | < 38.8 | 77.5 | U | ug/L | 16.1 | 38.8 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Benzo(a)anthracene | < 0.291 | 0.581 | U | ug/L | 0.119 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Benzo(a)pyrene | < 0.969 | 1.94 | U | ug/L | 0.364 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Benzo(b)fluoranthene | < 0.969 | 1.94 | U | ug/L | 0.361 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Benzo(g,h,i)perylene | < 0.969 | 1.94 | U | ug/L | 0.387 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Benzo(k)fluoranthene | < 0.485 | 1.94 | U | ug/L | 0.241 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Benzoic acid | < 23.3 | 38.8 | Q, U | ug/L | 11.4 | 23.3 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Benzyl alcohol | < 1.94 | 3.88 | U | ug/L | 0.533 | 1.94 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Bis(2-chloroethoxy)methane | < 0.485 | 0.969 | U | ug/L | 0.131 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Bis(2-chloroethyl)ether | < 0.485 | 0.969 | U | ug/L | 0.170 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Bis(2-ethylhexyl)phthalate | < 9.69 | 19.4 | U | ug/L | 3.52 | 9.69 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Butyl benzyl phthalate | < 0.485 | 0.969 | U | ug/L | 0.227 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Carbazole | < 0.485 | 0.969 | U | ug/L | 0.167 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Chrysene | < 0.291 | 0.581 | U | ug/L | 0.123 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Dibenzo(a,h)anthracene | < 0.969 | 1.94 | U | ug/L | 0.428 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Dibenzofuran | < 0.291 | 0.581 | U | ug/L | 0.119 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| **Diethyl phthalate** | **1.13** | 5.81 | J | ug/L | 1.13 | 2.91 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| **Dimethyl phthalate** | **0.630** | 0.581 | | ug/L | 0.0856 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Di-n-butyl phthalate | < 5.81 | 9.69 | U | ug/L | 2.79 | 5.81 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Di-n-octyl phthalate | < 4.85 | 9.69 | U | ug/L | 1.83 | 4.85 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Fluoranthene | < 0.485 | 0.969 | U | ug/L | 0.190 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Fluorene | < 0.291 | 0.581 | U | ug/L | 0.120 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Hexachlorobenzene | < 0.485 | 0.969 | U | ug/L | 0.160 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Hexachlorobutadiene | < 0.485 | 0.969 | U | ug/L | 0.242 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Hexachlorocyclopentadiene | < 4.85 | 14.5 | U | ug/L | 2.12 | 4.85 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Hexachloroethane | < 0.485 | 0.969 | U | ug/L | 0.213 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Indeno(1,2,3-cd)pyrene | < 0.969 | 1.94 | U | ug/L | 0.487 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Isophorone | < 0.291 | 0.581 | U | ug/L | 0.107 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Naphthalene | < 1.94 | 3.88 | U | ug/L | 0.791 | 1.94 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Nitrobenzene | < 0.291 | 0.581 | U | ug/L | 0.135 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| N-Nitrosodimethylamine | < 0.485 | 0.969 | U | ug/L | 0.151 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| N-Nitrosodi-n-propylamine | < 0.969 | 1.94 | U | ug/L | 0.309 | 0.969 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| N-Nitrosodiphenylamine | < 0.291 | 0.581 | U | ug/L | 0.101 | 0.291 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| N-Nitrosopyrrolidine | < 0.485 | 0.969 | U | ug/L | 0.156 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** RB-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 17:07
**Matrix:** Water
**Lab ID:** O24J0276-18 (Continued)

**Sterling Labs**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Semivolatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8270E / SW3510 (Continued)** | | | | | | | | | | |
| Pentachlorophenol | < 9.69 | 29.1 | U | ug/L | 2.44 | 9.69 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Phenanthrene | < 0.485 | 0.969 | U | ug/L | 0.200 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Phenol | < 0.485 | 0.969 | U | ug/L | 0.165 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Pyrene | < 0.485 | 0.969 | U | ug/L | 0.202 | 0.485 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| Pyridine | < 4.85 | 9.69 | U | ug/L | 1.76 | 4.85 | 10/19/24 15:01 | B24J0295 | LP | 1 |
| *Surrogate: 2-Fluorophenol* | | | | *Recovery: 47%* | *Limits: 19-119* | | *10/19/24 15:01* | *B24J0295* | *LP* | 1 |
| *Surrogate: Phenol-d5* | | | | *Recovery: 34%* | *Limits: 10-65* | | *10/19/24 15:01* | *B24J0295* | *LP* | 1 |
| *Surrogate: Nitrobenzene-d5* | | | | *Recovery: 84%* | *Limits: 44-120* | | *10/19/24 15:01* | *B24J0295* | *LP* | 1 |
| *Surrogate: 2-Fluorobiphenyl* | | | | *Recovery: 77%* | *Limits: 44-119* | | *10/19/24 15:01* | *B24J0295* | *LP* | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | | | | *Recovery: 88%* | *Limits: 43-140* | | *10/19/24 15:01* | *B24J0295* | *LP* | 1 |
| *Surrogate: 4-Terphenyl-d14* | | | | *Recovery: 86%* | *Limits: 50-134* | | *10/19/24 15:01* | *B24J0295* | *LP* | 1 |
| ***Polychlorinated Biphenyls (PCBs) by GC/ECD*** | | | | | | | | | | |
| **Method: SW8082A / SW3510** | | | | | | | | | | |
| Aroclor 1016 | < 0.480 | 0.575 | U | ug/L | 0.204 | 0.480 | 10/09/24 01:45 | B24J0391 | AY1 | 1 |
| Aroclor 1221 | < 0.480 | 0.575 | U | ug/L | 0.184 | 0.480 | 10/09/24 01:45 | B24J0391 | AY1 | 1 |
| Aroclor 1232 | < 0.480 | 0.575 | U | ug/L | 0.155 | 0.480 | 10/09/24 01:45 | B24J0391 | AY1 | 1 |
| Aroclor 1242 | < 0.480 | 0.575 | U | ug/L | 0.156 | 0.480 | 10/09/24 01:45 | B24J0391 | AY1 | 1 |
| Aroclor 1248 | < 0.480 | 0.575 | U | ug/L | 0.153 | 0.480 | 10/09/24 01:45 | B24J0391 | AY1 | 1 |
| Aroclor 1254 | < 0.480 | 0.575 | U | ug/L | 0.169 | 0.480 | 10/09/24 01:45 | B24J0391 | AY1 | 1 |
| Aroclor 1260 | < 0.480 | 0.575 | U | ug/L | 0.139 | 0.480 | 10/09/24 01:45 | B24J0391 | AY1 | 1 |
| Aroclor 1262 | < 0.480 | 0.575 | U | ug/L | 0.146 | 0.480 | 10/09/24 01:45 | B24J0391 | AY1 | 1 |
| Aroclor 1268 | < 0.480 | 0.575 | U | ug/L | 0.263 | 0.480 | 10/09/24 01:45 | B24J0391 | AY1 | 1 |
| Total PCB | < 0.575 | 0.671 | U | ug/L | 0.263 | 0.575 | 10/09/24 01:45 | B24J0391 | AY1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *Q* | *Recovery: 125%* | *Limits: 10-139* | | *10/09/24 01:45* | *B24J0391* | *AY1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 57%* | *Limits: 13-133* | | *10/09/24 01:45* | *B24J0391* | *AY1* | 1 |
| ***Organochlorine Pesticides by GC/ECD*** | | | | | | | | | | |
| **Method: SW8081B / SW3510** | | | | | | | | | | |
| 4,4'-DDD | < 0.0240 | 0.0384 | U | ug/L | 0.00854 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| **4,4'-DDE** | **0.0200** | 0.0384 | J | ug/L | 0.00777 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| 4,4'-DDT | < 0.0240 | 0.0384 | U | ug/L | 0.00767 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| Aldrin | < 0.0240 | 0.0384 | U | ug/L | 0.00959 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| alpha-BHC | < 0.0240 | 0.0384 | U | ug/L | 0.00940 | 0.0240 | 10/22/24 21:16 | B24J0392 | NL1 | 1 |
| alpha-Chlordane | < 0.0240 | 0.0384 | U | ug/L | 0.0102 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| beta-BHC | < 0.0480 | 0.192 | U | ug/L | 0.0240 | 0.0480 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| Chlordane | < 0.480 | 0.959 | U | ug/L | 0.213 | 0.480 | 10/22/24 21:16 | B24J0392 | NL1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** RB-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 17:07
**Matrix:** Water
**Lab ID:** O24J0276-18 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Organochlorine Pesticides by GC/ECD (Continued)*** | | | | | | | | | | |
| **Method: SW8081B / SW3510 (Continued)** | | | | | | | | | | |
| **delta-BHC** | **0.0299** | 0.0384 | J | ug/L | 0.00892 | 0.0240 | 10/22/24 21:16 | B24J0392 | NL1 | 1 |
| **Dieldrin** | **0.0316** | 0.0384 | J | ug/L | 0.00834 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| Endosulfan I | < 0.0240 | 0.0384 | U | ug/L | 0.00777 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| **Endosulfan II** | **0.0305** | 0.0384 | J | ug/L | 0.00911 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| Endosulfan sulfate | < 0.0240 | 0.0384 | U | ug/L | 0.0109 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| Endrin | < 0.0240 | 0.0384 | U | ug/L | 0.00844 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| Endrin aldehyde | < 0.0240 | 0.0384 | U | ug/L | 0.0112 | 0.0240 | 10/22/24 21:16 | B24J0392 | NL1 | 1 |
| Endrin ketone | < 0.0240 | 0.0384 | U | ug/L | 0.00825 | 0.0240 | 10/22/24 21:16 | B24J0392 | NL1 | 1 |
| gamma-BHC | < 0.0240 | 0.0384 | U | ug/L | 0.00930 | 0.0240 | 10/22/24 21:16 | B24J0392 | NL1 | 1 |
| gamma-Chlordane | < 0.0240 | 0.0384 | U | ug/L | 0.0106 | 0.0240 | 10/22/24 21:16 | B24J0392 | NL1 | 1 |
| Heptachlor | < 0.0240 | 0.0384 | U | ug/L | 0.00959 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| Heptachlor epoxide | < 0.0240 | 0.0384 | U | ug/L | 0.00930 | 0.0240 | 10/22/24 20:59 | B24J0392 | NL1 | 1 |
| Methoxychlor | < 0.0480 | 0.0767 | U | ug/L | 0.0163 | 0.0480 | 10/22/24 21:16 | B24J0392 | NL1 | 1 |
| Toxaphene | < 1.91 | 1.91 | H, U | ug/L | 0.884 | 1.91 | 11/04/24 21:05 | B24K0020 | NL1 | 1 |
| *Surrogate: Decachlorobiphenyl* | | | | *Recovery: 103%* | *Limits: 12-124* | | *10/22/24 20:59* | *B24J0392* | *NL1* | 1 |
| *Surrogate: Decachlorobiphenyl* | | | *H* | *Recovery: 97%* | *Limits: 12-124* | | *11/04/24 21:05* | *B24K0020* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | | *Recovery: 77%* | *Limits: 44-124* | | *10/22/24 21:16* | *B24J0392* | *NL1* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | | | *H* | *Recovery: 78%* | *Limits: 44-124* | | *11/04/24 21:21* | *B24K0020* | *NL1* | 1 |
| ***Metals by ICP-MS*** | | | | | | | | | | |
| **Method: SW6020 B / SW3015** | | | | | | | | | | |
| **Aluminum** | **0.0101** | 0.0500 | J, B | mg/L | 0.0100 | 0.0200 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Antimony | < 0.00400 | 0.0100 | U | mg/L | 0.00120 | 0.00400 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Arsenic | < 0.00200 | 0.0100 | U | mg/L | 0.000800 | 0.00200 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Barium | < 0.00200 | 0.0100 | U | mg/L | 0.000800 | 0.00200 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Beryllium | < 0.000800 | 0.00100 | U | mg/L | 0.000200 | 0.000800 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Cadmium | < 0.000800 | 0.00100 | U | mg/L | 0.000200 | 0.000800 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| **Calcium** | **0.0273** | 0.0250 | | mg/L | 0.0100 | 0.0200 | 11/11/24 11:59 | B24K0400 | KJ1 | 1 |
| Chromium | < 0.00400 | 0.0100 | U | mg/L | 0.00100 | 0.00400 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Cobalt | < 0.00400 | 0.0100 | U | mg/L | 0.00120 | 0.00400 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Copper | < 0.00400 | 0.0100 | U | mg/L | 0.00100 | 0.00400 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| **Iron** | **0.0484** | 0.0500 | J | mg/L | 0.0200 | 0.0400 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Lead | < 0.00200 | 0.0100 | U | mg/L | 0.000600 | 0.00200 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Magnesium | < 0.0200 | 0.0500 | U | mg/L | 0.00800 | 0.0200 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Manganese | < 0.00400 | 0.0100 | U | mg/L | 0.00100 | 0.00400 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Nickel | < 0.00400 | 0.0100 | U | mg/L | 0.00100 | 0.00400 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Potassium | < 0.0400 | 0.0500 | U | mg/L | 0.0200 | 0.0400 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** RB-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 17:07
**Matrix:** Water
**Lab ID:** O24J0276-18 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Metals by ICP-MS (Continued)*** | | | | | | | | | | |
| **Method: SW6020 B / SW3015 (Continued)** | | | | | | | | | | |
| Selenium | < 0.00400 | 0.0100 | U | mg/L | 0.00120 | 0.00400 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Silver | < 0.000400 | 0.00100 | U | mg/L | 0.000160 | 0.000400 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Sodium | < 0.0200 | 0.0250 | U | mg/L | 0.0100 | 0.0200 | 11/11/24 11:59 | B24K0400 | KJ1 | 1 |
| Thallium | < 0.000400 | 0.0100 | U | mg/L | 0.000160 | 0.000400 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Vanadium | < 0.00200 | 0.0100 | U | mg/L | 0.000600 | 0.00200 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| Zinc | < 0.00800 | 0.0100 | U | mg/L | 0.00400 | 0.00800 | 10/14/24 13:22 | B24J0364 | KJ1 | 2 |
| ***Mercury by CVAA*** | | | | | | | | | | |
| **Method: SW7470A** | | | | | | | | | | |
| Mercury | < 0.00025 | 0.00040 | U | mg/L | 0.00013 | 0.00025 | 10/16/24 19:36 | B24J0965 | UJ1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** TB-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 07:00
**Matrix:** Water
**Lab ID:** O24J0276-19

### Sterling Labs

***Volatile Organic Compounds by GC/MS***

**Method: SW8260D / SW5030**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | < 0.200 | 0.500 | U | ug/L | 0.0650 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,1,1-Trichloroethane | < 0.200 | 0.500 | U | ug/L | 0.0880 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,1,2,2-Tetrachloroethane | < 0.200 | 0.500 | U | ug/L | 0.0620 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,1,2-Trichloroethane | < 0.200 | 0.500 | U | ug/L | 0.0832 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,1-Dichloroethane | < 0.200 | 0.500 | U | ug/L | 0.0700 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,1-Dichloroethene | < 0.200 | 0.500 | U | ug/L | 0.0954 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,1-Dichloropropene | < 0.200 | 0.500 | U | ug/L | 0.0699 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,2,3-Trichlorobenzene | < 2.00 | 5.00 | U | ug/L | 0.739 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,2,3-Trichloropropane | < 0.200 | 0.500 | U | ug/L | 0.0913 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,2,4-Trichlorobenzene | < 5.00 | 10.0 | U | ug/L | 2.20 | 5.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,2,4-Trimethylbenzene | < 2.00 | 5.00 | U | ug/L | 0.558 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,2-Dibromo-3-chloropropane | < 0.200 | 0.500 | U | ug/L | 0.0220 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,2-Dibromoethane | < 0.200 | 0.500 | U | ug/L | 0.0531 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,2-Dichlorobenzene | < 1.00 | 2.00 | U | ug/L | 0.295 | 1.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,2-Dichloroethane | < 0.200 | 0.500 | U | ug/L | 0.0400 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,2-Dichloropropane | < 0.200 | 0.500 | U | ug/L | 0.0430 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,3,5-Trimethylbenzene | < 2.00 | 5.00 | U | ug/L | 0.539 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,3-Dichlorobenzene | < 0.200 | 0.500 | U | ug/L | 0.0724 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,3-Dichloropropane | < 0.200 | 0.500 | U | ug/L | 0.0280 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,4-Dioxane | < 6.00 | 12.0 | U | ug/L | 2.99 | 6.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1,4-Dichlorobenzene | < 2.00 | 5.00 | U | ug/L | 0.709 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 1-Propanol | < 100 | 200 | U | ug/L | 29.8 | 100 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 2,2-Dichloropropane | < 0.200 | 0.500 | U | ug/L | 0.0920 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 2-Butanone | < 2.00 | 5.00 | U | ug/L | 0.913 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 2-Chloroethyl vinyl ether | < 1.00 | 2.00 | U | ug/L | 0.419 | 1.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 2-Chlorotoluene | < 1.00 | 2.00 | U | ug/L | 0.475 | 1.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 2-Hexanone | < 0.200 | 2.00 | U | ug/L | 0.0720 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 4-Chlorotoluene | < 0.200 | 0.500 | U | ug/L | 0.0921 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 4-Isopropyltoluene | < 2.00 | 5.00 | U | ug/L | 0.612 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| 4-Methyl-2-pentanone | < 0.500 | 1.00 | U | ug/L | 0.135 | 0.500 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Acetone | < 2.00 | 5.00 | U | ug/L | 0.518 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Acetonitrile | < 4.00 | 5.00 | U | ug/L | 1.01 | 4.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Acrolein | < 2.00 | 5.00 | U | ug/L | 0.577 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Acrylonitrile | < 0.500 | 1.00 | U | ug/L | 0.216 | 0.500 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Benzene | < 1.00 | 2.00 | U | ug/L | 0.250 | 1.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Bromobenzene | < 0.500 | 1.00 | U | ug/L | 0.207 | 0.500 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Bromochloromethane | < 0.200 | 0.500 | U | ug/L | 0.0670 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** TB-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 07:00
**Matrix:** Water
**Lab ID:** O24J0276-19 (Continued)

### Sterling Labs

***Volatile Organic Compounds by GC/MS (Continued)***

**Method: SW8260D / SW5030 (Continued)**

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | < 0.200 | 0.500 | U | ug/L | 0.0531 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Bromoform | < 0.400 | 1.00 | U | ug/L | 0.103 | 0.400 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Bromomethane | < 5.00 | 10.0 | U | ug/L | 1.44 | 5.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Carbon disulfide | < 2.00 | 5.00 | U | ug/L | 0.791 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Carbon tetrachloride | < 0.200 | 0.500 | U | ug/L | 0.0844 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Chlorobenzene | < 0.200 | 0.500 | U | ug/L | 0.0650 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Chloroethane | < 0.500 | 1.00 | U | ug/L | 0.155 | 0.500 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Chloroform | < 0.500 | 1.00 | U | ug/L | 0.192 | 0.500 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Chloromethane | < 0.500 | 1.00 | U | ug/L | 0.192 | 0.500 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| **cis-1,2-Dichloroethene** | **0.510** | 0.500 | | ug/L | 0.103 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| cis-1,3-Dichloropropene | < 0.200 | 0.500 | U | ug/L | 0.0587 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Cyclohexane | < 0.200 | 0.500 | U | ug/L | 0.0862 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Dibromochloromethane | < 0.200 | 0.500 | U | ug/L | 0.0360 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Dibromomethane | < 0.200 | 0.500 | U | ug/L | 0.0817 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Dichlorodifluoromethane | < 0.500 | 1.00 | U | ug/L | 0.130 | 0.500 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Ethylbenzene | < 2.00 | 5.00 | U | ug/L | 0.634 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Ethyl ether | < 0.200 | 0.500 | U | ug/L | 0.0770 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Hexachlorobutadiene | < 4.00 | 10.0 | U | ug/L | 1.17 | 4.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Isobutanol | < 5.00 | 20.0 | U | ug/L | 2.48 | 5.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Isopropanol | < 5.00 | 10.0 | U | ug/L | 2.42 | 5.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Isopropylbenzene | < 2.00 | 5.00 | U | ug/L | 0.0549 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| m,p-Xylene | < 5.00 | 10.0 | U | ug/L | 1.29 | 5.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Methyl tert-butyl ether | < 10.0 | 20.0 | U | ug/L | 0.226 | 10.0 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Methylene chloride | < 10.0 | 20.0 | U | ug/L | 2.60 | 10.0 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| n-Butylbenzene | < 0.500 | 1.00 | U | ug/L | 0.130 | 0.500 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| n-Propylbenzene | < 0.200 | 0.500 | U | ug/L | 0.0630 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Naphthalene | < 2.00 | 5.00 | U | ug/L | 0.720 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| o-Xylene | < 1.00 | 2.00 | U | ug/L | 0.429 | 1.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| sec-Butylbenzene | < 2.00 | 5.00 | U | ug/L | 0.613 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Styrene | < 2.00 | 5.00 | U | ug/L | 0.618 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| tert-Butylbenzene | < 2.00 | 5.00 | U | ug/L | 0.710 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Tetrachloroethene | < 4.00 | 5.00 | U | ug/L | 1.11 | 4.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Tetrahydrofuran | < 4.00 | 5.00 | U | ug/L | 1.27 | 4.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Toluene | < 2.00 | 5.00 | U | ug/L | 0.701 | 2.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| trans-1,2-Dichloroethene | < 0.200 | 0.500 | U | ug/L | 0.0855 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| trans-1,3-Dichloropropene | < 0.200 | 0.500 | U | ug/L | 0.0587 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Trichloroethene | < 1.00 | 2.00 | U | ug/L | 0.294 | 1.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |

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## Client Sample Results

(Continued)

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Client Sample ID:** TB-1-DFW
**Report Date:** 03/21/2025
**Collection Date:** 10/01/2024 07:00
**Matrix:** Water
**Lab ID:** O24J0276-19 (Continued)

### Sterling Labs

| Analyses | Result | Reporting Limit | Qual | Units | MDL | LOD | Date/Time Analyzed | Batch | Analyst | DF |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Volatile Organic Compounds by GC/MS (Continued)*** | | | | | | | | | | |
| **Method: SW8260D / SW5030 (Continued)** | | | | | | | | | | |
| Trichlorofluoromethane | < 0.200 | 0.500 | U | ug/L | 0.0505 | 0.200 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Vinyl acetate | < 0.500 | 1.00 | U | ug/L | 0.147 | 0.500 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Vinyl chloride | < 0.500 | 1.00 | U | ug/L | 0.129 | 0.500 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| Xylenes, Total | < 5.00 | 10.0 | U | ug/L | 1.71 | 5.00 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| **1,2-Dichloroethene, Total** | **0.510** | 1.00 | J | ug/L | 0.188 | 0.400 | 10/03/24 19:37 | B24J0265 | WH1 | 1 |
| *Surrogate: Dibromofluoromethane* | | | | *Recovery: 102%* | *Limits: 80-119* | | *10/03/24 19:37* | *B24J0265* | *WH1* | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | | | | *Recovery: 101%* | *Limits: 81-118* | | *10/03/24 19:37* | *B24J0265* | *WH1* | 1 |
| *Surrogate: Fluorobenzene* | | | | *Recovery: 98%* | *Limits: 80-116* | | *10/03/24 19:37* | *B24J0265* | *WH1* | 1 |
| *Surrogate: Toluene-d8* | | | | *Recovery: 98%* | *Limits: 89-112* | | *10/03/24 19:37* | *B24J0265* | *WH1* | 1 |
| *Surrogate: 4-Bromofluorobenzene* | | | | *Recovery: 94%* | *Limits: 85-114* | | *10/03/24 19:37* | *B24J0265* | *WH1* | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | | | *Recovery: 100%* | *Limits: 87-138* | | *10/03/24 19:37* | *B24J0265* | *WH1* | 1 |
| ***Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds*** | | | | | | | | | | |
| **Method: SW8260B / SW5030** | | | | | | | | | | |
| No TICs found | | | | ug/L | | | 10/03/24 19:37 | B24J0265 | WH1 | 1 |

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# Dates Report

**Client:** HDR

**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048

**SDG:** O24J0276

**Report Date:** 03/21/2025

| Sample ID | Client Sample ID | Collection | Matrix | Test Name | Leached Prep Date | Prep Date | Analysis Date | Batch ID | Sequence |
|---|---|---|---|---|---|---|---|---|---|
| O24J0276-01 | SB-110-0-DFW | 10/01/24 | Soil | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 19:56 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 20:13 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/08/24 23:30 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/14/24 23:57 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 10:18 | 10/10/24 00:00 | B24J0405 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 13:35 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 14:55 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/08/24 08:05 | 10/08/24 11:54 | B24J0623 | S24J0371 |
| | | | | Volatile Organic Library Search | | 10/08/24 08:05 | 10/08/24 11:54 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 11:29 | B24J0796 | S24J0516 |
| O24J0276-01 DL1 | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/13/24 16:01 | 10/15/24 18:02 | B24J0527 | S24J0512 |
| O24J0276-01 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 12:18 | 10/09/24 15:22 | B24J0437 | S24J0340 |
| O24J0276-01 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 12:15 | B24K0386 | S24K0300 |
| O24J0276-02 | SB-110-8-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 20:13 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 20:30 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/08/24 23:47 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/14/24 21:11 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 10:18 | 10/10/24 00:00 | B24J0405 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 13:39 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 15:16 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/08/24 08:05 | 10/08/24 12:23 | B24J0623 | S24J0371 |
| | | | | Volatile Organic Library Search | | 10/08/24 08:05 | 10/08/24 12:23 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 11:31 | B24J0796 | S24J0516 |
| O24J0276-02 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 15:27 | B24J0437 | S24J0340 |
| O24J0276-02 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 12:20 | B24K0386 | S24K0300 |
| O24J0276-03 | SB-110-17-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 20:30 | B24J0269 | S24J0638 |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/09/24 00:04 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/14/24 21:32 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 10:18 | 10/10/24 00:00 | B24J0405 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 13:44 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 15:37 | B24J0527 | S24J0410 |

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# Dates Report

(Continued)

**Client:** HDR

**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048

**SDG:** O24J0276

**Report Date:** 03/21/2025

| Sample ID | Client Sample ID | Collection | Matrix | Test Name | Leached Prep Date | Prep Date | Analysis Date | Batch ID | Sequence |
|---|---|---|---|---|---|---|---|---|---|
| O24J0276-03 | SB-110-17-DFW | 10/01/24 | Soil | Volatile Organic Compounds by GC/MS | | 10/08/24 08:05 | 10/08/24 12:52 | B24J0623 | S24J0371 |
| | | | | Volatile Organic Library Search | | 10/08/24 08:05 | 10/08/24 12:52 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 11:34 | B24J0796 | S24J0516 |
| O24J0276-03 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 15:31 | B24J0437 | S24J0340 |
| O24J0276-03 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 12:24 | B24K0386 | S24K0300 |
| O24J0276-04 | SB-110-23-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 20:46 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 21:03 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/09/24 00:21 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/14/24 21:53 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 10:18 | 10/10/24 00:00 | B24J0405 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 13:48 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 15:58 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Library Search | | 10/08/24 08:05 | 10/08/24 13:20 | B24J0623 | S24J0371 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/08/24 08:05 | 10/08/24 13:20 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 11:36 | B24J0796 | S24J0516 |
| O24J0276-04 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 12:18 | 10/09/24 15:35 | B24J0437 | S24J0340 |
| O24J0276-04 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 12:28 | B24K0386 | S24K0300 |
| O24J0276-05 | DUP-2-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 21:03 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 21:20 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/09/24 00:38 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/14/24 22:14 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 10:18 | 10/10/24 00:00 | B24J0405 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 13:52 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 16:18 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/08/24 08:05 | 10/08/24 13:49 | B24J0623 | S24J0371 |
| | | | | Volatile Organic Library Search | | 10/08/24 08:05 | 10/08/24 13:49 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 11:49 | B24J0796 | S24J0516 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/15/24 07:39 | 10/15/24 10:58 | B24J0919 | S24J0540 |
| O24J0276-05 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 12:18 | 10/09/24 15:39 | B24J0437 | S24J0340 |
| O24J0276-05 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 12:32 | B24K0386 | S24K0300 |
| O24J0276-06 | SB-110-32-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 21:20 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 21:36 | | |

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# Dates Report

(Continued)

**Client:** HDR

**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048

**SDG:** O24J0276

**Report Date:** 03/21/2025

| Sample ID | Client Sample ID | Collection | Matrix | Test Name | Leached Prep Date | Prep Date | Analysis Date | Batch ID | Sequence |
|---|---|---|---|---|---|---|---|---|---|
| O24J0276-06 | SB-110-32-DFW | 10/01/24 | Soil | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/09/24 00:54 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/14/24 22:34 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 13:57 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 16:39 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/08/24 08:05 | 10/08/24 14:18 | B24J0623 | S24J0371 |
| | | | | Volatile Organic Library Search | | 10/08/24 08:05 | 10/08/24 14:18 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 11:51 | B24J0796 | S24J0516 |
| O24J0276-06 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 12:18 | 10/09/24 15:43 | B24J0437 | S24J0340 |
| O24J0276-06 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 12:37 | B24K0386 | S24K0300 |
| O24J0276-07 | SB-108-0-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 21:53 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 21:36 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/09/24 01:11 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/15/24 00:18 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 14:01 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 17:00 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/08/24 08:05 | 10/08/24 14:47 | B24J0623 | S24J0371 |
| | | | | Volatile Organic Library Search | | 10/08/24 08:05 | 10/08/24 14:47 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 11:54 | B24J0796 | S24J0516 |
| O24J0276-07 DL1 | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/16/24 18:51 | B24J0296 | S24J0592 |
| O24J0276-07 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 15:47 | B24J0437 | S24J0340 |
| O24J0276-07 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 12:41 | B24K0386 | S24K0300 |
| O24J0276-07 RX2 | | | | ICP-AES Metals, Total recoverable | | 11/14/24 10:25 | 11/15/24 16:02 | B24K0661 | S24K0483 |
| O24J0276-08 | SB-108-7-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 21:53 | B24J0269 | S24J0638 |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/08/24 22:56 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/14/24 22:55 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 14:06 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 17:21 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/08/24 08:05 | 10/08/24 15:16 | B24J0623 | S24J0371 |

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# Dates Report

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**Client:** HDR

**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048

**SDG:** O24J0276

**Report Date:** 03/21/2025

| Sample ID | Client Sample ID | Collection | Matrix | Test Name | Leached Prep Date | Prep Date | Analysis Date | Batch ID | Sequence |
|---|---|---|---|---|---|---|---|---|---|
| O24J0276-08 | SB-108-7-DFW | 10/01/24 | Soil | Volatile Organic Library Search | | 10/08/24 08:05 | 10/08/24 15:16 | B24J0623 | S24J0371 |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 11:56 | B24J0796 | S24J0516 |
| O24J0276-08 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 15:51 | B24J0437 | S24J0340 |
| O24J0276-08 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 12:45 | B24K0386 | S24K0300 |
| O24J0276-08 RX2 | | | | ICP-AES Metals, Total recoverable | | 11/14/24 10:25 | 11/15/24 16:06 | B24K0661 | S24K0483 |
| O24J0276-09 | SB-108-15-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 22:10 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 22:26 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/08/24 23:13 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/14/24 23:16 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 14:10 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 17:42 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/08/24 08:05 | 10/08/24 15:45 | B24J0623 | S24J0371 |
| | | | | Volatile Organic Library Search | | 10/08/24 08:05 | 10/08/24 15:45 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 11:59 | B24J0796 | S24J0516 |
| O24J0276-09 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/09/24 10:18 | 10/09/24 16:03 | B24J0437 | S24J0340 |
| O24J0276-09 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 12:50 | B24K0386 | S24K0300 |
| O24J0276-09 RX2 | | | | ICP-AES Metals, Total recoverable | | 11/14/24 10:25 | 11/15/24 16:10 | B24K0661 | S24K0483 |
| O24J0276-10 | SB-108-25-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 22:26 | B24J0269 | S24J0638 |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/08/24 23:30 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/15/24 01:20 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 14:23 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 18:03 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Library Search | | 10/08/24 08:05 | 10/08/24 16:14 | B24J0623 | S24J0371 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/08/24 08:05 | 10/08/24 16:14 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 12:01 | B24J0796 | S24J0516 |
| O24J0276-10 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/09/24 10:18 | 10/09/24 16:07 | B24J0437 | S24J0340 |
| O24J0276-10 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 13:02 | B24K0386 | S24K0300 |
| O24J0276-10 RX2 | | | | ICP-AES Metals, Total recoverable | | 11/14/24 10:25 | 11/15/24 16:15 | B24K0661 | S24K0483 |
| O24J0276-11 | SB-108-32-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/17/24 23:50 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 00:07 | | |

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# Dates Report

(Continued)

**Client:** HDR

**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048

**SDG:** O24J0276

**Report Date:** 03/21/2025

| Sample ID | Client Sample ID | Collection | Matrix | Test Name | Leached Prep Date | Prep Date | Analysis Date | Batch ID | Sequence |
|---|---|---|---|---|---|---|---|---|---|
| O24J0276-11 | SB-108-32-DFW | 10/01/24 | Soil | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/08/24 23:47 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:13 | 10/14/24 20:30 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 14:27 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 14:34 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/08/24 08:05 | 10/08/24 16:43 | B24J0623 | S24J0371 |
| | | | | Volatile Organic Library Search | | 10/08/24 08:05 | 10/08/24 16:43 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 12:03 | B24J0796 | S24J0516 |
| O24J0276-11 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/09/24 10:18 | 10/09/24 16:11 | B24J0437 | S24J0340 |
| O24J0276-11 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 13:07 | B24K0386 | S24K0300 |
| O24J0276-11 RX2 | | | | ICP-AES Metals, Total recoverable | | 11/14/24 10:25 | 11/15/24 16:19 | B24K0661 | S24K0483 |
| O24J0276-12 | SB-109-0-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 00:07 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 00:23 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/09/24 00:04 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/08/24 03:55 | 10/15/24 00:39 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 14:31 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 18:23 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/09/24 08:14 | 10/09/24 11:50 | B24J0625 | S24J0372 |
| | | | | Volatile Organic Library Search | | 10/09/24 08:14 | 10/09/24 11:50 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 12:06 | B24J0796 | S24J0516 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/15/24 07:39 | 10/15/24 11:27 | B24J0919 | S24J0540 |
| | | | | ICP-MS Metals, TCLP Extracted | 03/13/25 12:18 | 03/14/25 13:25 | 03/14/25 19:49 | B25C0797 | S25C0490 |
| O24J0276-12 DL1 | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/13/24 16:01 | 10/15/24 18:23 | B24J0527 | S24J0512 |
| O24J0276-12 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 12:18 | 10/09/24 16:16 | B24J0437 | S24J0340 |
| O24J0276-12 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 13:11 | B24K0386 | S24K0300 |
| O24J0276-12 RX2 | | | | ICP-AES Metals, Total recoverable | | 11/14/24 10:25 | 11/15/24 16:23 | B24K0661 | S24K0483 |
| O24J0276-13 | DUP-1-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 00:23 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 00:40 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/09/24 00:21 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/08/24 03:55 | 10/15/24 00:59 | B24J0296 | S24J0582 |

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# Dates Report

(Continued)

**Client:** HDR

**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048

**SDG:** O24J0276

**Report Date:** 03/21/2025

| Sample ID | Client Sample ID | Collection | Matrix | Test Name | Leached Prep Date | Prep Date | Analysis Date | Batch ID | Sequence |
|---|---|---|---|---|---|---|---|---|---|
| O24J0276-13 | DUP-1-DFW | 10/01/24 | Soil | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 14:36 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 18:44 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/09/24 08:14 | 10/09/24 12:48 | B24J0625 | S24J0372 |
| | | | | Volatile Organic Library Search | | 10/09/24 08:14 | 10/09/24 12:48 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 12:08 | B24J0796 | S24J0516 |
| O24J0276-13 DL1 | | | | Semivolatile Organic Compounds by GC/MS | | 10/08/24 03:55 | 10/16/24 19:12 | B24J0296 | S24J0592 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/13/24 16:01 | 10/15/24 17:42 | B24J0527 | S24J0512 |
| O24J0276-13 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 12:18 | 10/09/24 16:20 | B24J0437 | S24J0340 |
| O24J0276-13 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 13:15 | B24K0386 | S24K0300 |
| O24J0276-13 RX2 | | | | ICP-AES Metals, Total recoverable | | 11/14/24 10:25 | 11/15/24 16:27 | B24K0661 | S24K0483 |
| O24J0276-14 | SB-109-6-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 00:40 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 00:57 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/09/24 00:38 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/08/24 03:55 | 10/15/24 01:41 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 14:40 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 19:05 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Library Search | | 10/09/24 08:14 | 10/09/24 13:17 | B24J0625 | S24J0372 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/09/24 08:14 | 10/09/24 13:17 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 12:11 | B24J0796 | S24J0516 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/15/24 07:39 | 10/15/24 11:57 | B24J0919 | S24J0540 |
| O24J0276-14 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 12:18 | 10/09/24 16:24 | B24J0437 | S24J0340 |
| O24J0276-14 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 13:20 | B24K0386 | S24K0300 |
| O24J0276-14 RX2 | | | | ICP-AES Metals, Total recoverable | | 11/14/24 10:25 | 11/15/24 16:32 | B24K0661 | S24K0483 |
| O24J0276-15 | SB-109-17-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 00:57 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 01:13 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/09/24 00:54 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/08/24 03:55 | 10/15/24 02:02 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 14:45 | B24J0437 | S24J0340 |

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# Dates Report

(Continued)

**Client:** HDR

**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048

**SDG:** O24J0276

**Report Date:** 03/21/2025

| Sample ID | Client Sample ID | Collection | Matrix | Test Name | Leached Prep Date | Prep Date | Analysis Date | Batch ID | Sequence |
|---|---|---|---|---|---|---|---|---|---|
| O24J0276-15 | SB-109-17-DFW | 10/01/24 | Soil | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 19:26 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/09/24 08:14 | 10/09/24 13:46 | B24J0625 | S24J0372 |
| | | | | Volatile Organic Library Search | | 10/09/24 08:14 | 10/09/24 13:46 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 12:18 | B24J0796 | S24J0516 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/15/24 07:39 | 10/15/24 12:26 | B24J0919 | S24J0540 |
| O24J0276-15 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 12:18 | 10/09/24 16:28 | B24J0437 | S24J0340 |
| O24J0276-15 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 13:24 | B24K0386 | S24K0300 |
| O24J0276-15 RX2 | | | | ICP-AES Metals, Total recoverable | | 11/14/24 10:25 | 11/15/24 16:36 | B24K0661 | S24K0483 |
| O24J0276-16 | SB-109-25-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 01:13 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 01:30 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/09/24 01:11 | B24J0270 | S24J0308 |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/08/24 03:55 | 10/15/24 02:22 | B24J0296 | S24J0582 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 14:49 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 19:47 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Library Search | | 10/09/24 08:14 | 10/09/24 14:15 | B24J0625 | S24J0372 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/09/24 08:14 | 10/09/24 14:15 | | |
| | | | | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 12:21 | B24J0796 | S24J0516 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/15/24 07:39 | 10/15/24 12:55 | B24J0919 | S24J0540 |
| O24J0276-16 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 12:18 | 10/09/24 16:32 | B24J0437 | S24J0340 |
| O24J0276-16 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 13:28 | B24K0386 | S24K0300 |
| O24J0276-16 RX2 | | | | ICP-AES Metals, Total recoverable | | 11/14/24 10:25 | 11/15/24 16:49 | B24K0661 | S24K0483 |
| O24J0276-17 | SB-109-31-DFW | 10/01/24 | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 01:47 | B24J0269 | S24J0638 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/07/24 10:15 | 10/18/24 01:30 | | |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/07/24 10:15 | 10/09/24 01:28 | B24J0270 | S24J0308 |
| | | | | Total Solids / Percent Moisture | | 10/08/24 12:13 | 10/09/24 06:00 | B24J0422 | |
| | | | | ICP-AES Metals, Total recoverable | | 10/08/24 13:32 | 10/09/24 14:53 | B24J0437 | S24J0340 |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/10/24 11:25 | 10/11/24 20:08 | B24J0527 | S24J0410 |
| | | | | Volatile Organic Library Search | | 10/09/24 08:14 | 10/09/24 14:44 | B24J0625 | S24J0372 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/09/24 08:14 | 10/09/24 14:44 | | |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/15/24 11:40 | 10/16/24 18:31 | B24J0789 | S24J0592 |

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# Dates Report

(Continued)

**Client:** HDR

**Report Date:** 03/21/2025

**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048

**SDG:** O24J0276

| Sample ID | Client Sample ID | Collection | Matrix | Test Name | Leached Prep Date | Prep Date | Analysis Date | Batch ID | Sequence |
|---|---|---|---|---|---|---|---|---|---|
| O24J0276-17 | SB-109-31-DFW | 10/01/24 | Soil | Mercury, Total CCVA | | 10/14/24 17:25 | 10/15/24 12:23 | B24J0796 | S24J0516 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/15/24 07:39 | 10/15/24 13:25 | B24J0919 | S24J0540 |
| O24J0276-17 RS1 | | | | ICP-AES Metals, Total recoverable | | 10/08/24 12:18 | 10/09/24 16:36 | B24J0437 | S24J0340 |
| O24J0276-17 RX1 | | | | ICP-AES Metals, Total recoverable | | 11/08/24 12:32 | 11/11/24 13:32 | B24K0386 | S24K0300 |
| O24J0276-17 RX2 | | | | ICP-AES Metals, Total recoverable | | 11/14/24 10:25 | 11/15/24 16:53 | B24K0661 | S24K0483 |
| O24J0276-18 | RB-1-DFW | 10/01/24 | Water | Volatile Organic Compounds by GC/MS | | 10/03/24 10:34 | 10/03/24 19:10 | B24J0265 | S24J0169 |
| | | | | Volatile Organic Library Search | | 10/03/24 10:34 | 10/03/24 19:10 | | |
| | | | | Semivolatile Organic Compounds by GC/MS | | 10/07/24 08:45 | 10/19/24 15:01 | B24J0295 | S24J0684 |
| | | | | ICP-MS Metals, Total | | 10/07/24 16:25 | 10/14/24 13:22 | B24J0364 | S24J0474 |
| | | | | Polychlorinated Biphenyls by GC/ECD | | 10/08/24 09:30 | 10/09/24 01:45 | B24J0391 | S24J0364 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/08/24 09:30 | 10/22/24 20:59 | B24J0392 | S24K0128 |
| | | | | Organochlorine Pesticides by GC/ECD | | 10/08/24 09:30 | 10/22/24 21:16 | | |
| | | | | Semivolatile Organic Compounds, SIM, PNAs by GC/MS | | 10/08/24 15:00 | 10/09/24 14:34 | B24J0426 | S24J0302 |
| | | | | Mercury, Total CCVA | | 10/16/24 15:18 | 10/16/24 19:36 | B24J0965 | S24J0741 |
| O24J0276-18 RX1 | | | | Organochlorine Pesticides by GC/ECD | | 11/01/24 11:00 | 11/04/24 21:05 | B24K0020 | S24K0110 |
| | | | | Organochlorine Pesticides by GC/ECD | | 11/01/24 11:00 | 11/04/24 21:21 | | |
| | | | | ICP-MS Metals, Total | | 11/08/24 15:41 | 11/11/24 11:59 | B24K0400 | S24K0273 |
| O24J0276-19 | TB-1-DFW | 10/01/24 | | Volatile Organic Library Search | | 10/03/24 10:34 | 10/03/24 19:37 | B24J0265 | S24J0169 |
| | | | | Volatile Organic Compounds by GC/MS | | 10/03/24 10:34 | 10/03/24 19:37 | | |

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## Quality Control

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0623 - SW5035*** | | | | | | | | | | | |
| **(B24J0623-BLK1), Blank** | | | | *Prepared: 10/08/2024 08:05* | | | *Analyzed: 10/08/2024 10:53* | | | | |
| 1,1,1,2-Tetrachloroethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1,1-Trichloroethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1,2,2-Tetrachloroethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1,2-Trichloroethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1-Dichloroethane | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1-Dichloroethene | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1-Dichloropropene | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,3-Trichlorobenzene | <20.0 | 40.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,3-Trichloropropane | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,4-Trichlorobenzene | <20.0 | 40.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,4-Trimethylbenzene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dibromo-3-chloropropane | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dibromoethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichlorobenzene | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichloroethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichloropropane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,3,5-Trimethylbenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,3-Dichlorobenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,3-Dichloropropane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,4-Dioxane | <40.0 | 80.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,4-Dichlorobenzene | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| 1-Propanol | <100 | 200 | ug/Kg wet | | | | | | | U | 1 |
| 2,2-Dichloropropane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 2-Butanone | <14.0 | 28.0 | ug/Kg wet | | | | | | | U | 1 |
| 2-Chloroethyl vinyl ether | <50.0 | 100 | ug/Kg wet | | | | | | | U | 1 |
| 2-Chlorotoluene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 2-Hexanone | <14.0 | 28.0 | ug/Kg wet | | | | | | | U | 1 |
| 4-Chlorotoluene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 4-Isopropyltoluene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| 4-Methyl-2-pentanone | <14.0 | 28.0 | ug/Kg wet | | | | | | | U | 1 |
| Acetone | <35.0 | 70.0 | ug/Kg wet | | | | | | | U | 1 |
| Acetonitrile | <100 | 200 | ug/Kg wet | | | | | | | U | 1 |
| Acrolein | <20.0 | 40.0 | ug/Kg wet | | | | | | | U | 1 |
| Acrylonitrile | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Benzene | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Bromobenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Bromochloromethane | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Bromodichloromethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Bromoform | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Bromomethane | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0623 - SW5035*** *(Continued)*

**(B24J0623-BLK1), Blank** (Continued) *Prepared: 10/08/2024 08:05 Analyzed: 10/08/2024 10:53*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon disulfide | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Carbon tetrachloride | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Chlorobenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Chloroethane | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| Chloroform | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Chloromethane | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| cis-1,2-Dichloroethene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| cis-1,3-Dichloropropene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Cyclohexane | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| Dibromochloromethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Dibromomethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Dichlorodifluoromethane | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| Ethylbenzene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| Isobutanol | <40.0 | 80.0 | ug/Kg wet | | | | | | | U | 1 |
| Isopropanol | <40.0 | 80.0 | ug/Kg wet | | | | | | | U | 1 |
| Isopropylbenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| m,p-Xylene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| Methyl tert-butyl ether | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Methylene chloride | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| n-Butylbenzene | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| n-Propylbenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Naphthalene | <20.0 | 40.0 | ug/Kg wet | | | | | | | U | 1 |
| o-Xylene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| sec-Butylbenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Styrene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| tert-Butylbenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Tetrachloroethene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Tetrahydrofuran | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| Toluene | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| trans-1,2-Dichloroethene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| trans-1,3-Dichloropropene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Trichloroethene | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Trichlorofluoromethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Vinyl acetate | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Vinyl chloride | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Xylenes, Total | <6.00 | 12.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichloroethene, Total | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| *Surrogate: Dibromofluoromethane* | *20.1* | | *ug/Kg* | *20.0* | | *100* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *19.2* | | *ug/Kg* | *20.0* | | *96* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *20.2* | | *ug/Kg* | *20.0* | | *101* | *81-114* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

### *Batch: B24J0623 - SW5035 (Continued)*

**(B24J0623-BLK1), Blank** (Continued) *Prepared: 10/08/2024 08:05 Analyzed: 10/08/2024 10:53*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *Surrogate: Toluene-d8* | *19.6* | | *ug/Kg* | *20.0* | | *98* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *9.94* | | *ug/Kg* | *10.0* | | *99* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *19.8* | | *ug/Kg* | *20.0* | | *99* | *78-121* | | | | 1 |

**(B24J0623-BS1), LCS** *Prepared: 10/08/2024 08:05 Analyzed: 10/08/2024 11:22*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 45.2 | 2.00 | ug/Kg wet | 40.0 | | 113 | 78-125 | | | | 1 |
| 1,1,1-Trichloroethane | 44.2 | 2.00 | ug/Kg wet | 40.0 | | 111 | 73-130 | | | | 1 |
| 1,1,2,2-Tetrachloroethane | 39.8 | 2.00 | ug/Kg wet | 40.0 | | 99 | 70-124 | | | | 1 |
| 1,1,2-Trichloroethane | 41.3 | 2.00 | ug/Kg wet | 40.0 | | 103 | 78-121 | | | | 1 |
| 1,1-Dichloroethane | 42.9 | 4.00 | ug/Kg wet | 40.0 | | 107 | 76-125 | | | | 1 |
| 1,1-Dichloroethene | 45.3 | 2.00 | ug/Kg wet | 40.0 | | 113 | 70-131 | | | | 1 |
| 1,1-Dichloropropene | 45.2 | 20.0 | ug/Kg wet | 40.0 | | 113 | 76-125 | | | | 1 |
| 1,2,3-Trichlorobenzene | 54.0 | 40.0 | ug/Kg wet | 40.0 | | 135 | 66-130 | | | S | 1 |
| 1,2,3-Trichloropropane | 44.9 | 20.0 | ug/Kg wet | 40.0 | | 112 | 73-125 | | | | 1 |
| 1,2,4-Trichlorobenzene | 49.8 | 40.0 | ug/Kg wet | 40.0 | | 125 | 67-129 | | | | 1 |
| 1,2,4-Trimethylbenzene | 46.6 | 8.00 | ug/Kg wet | 40.0 | | 116 | 75-123 | | | | 1 |
| 1,2-Dibromo-3-chloropropane | 45.6 | 8.00 | ug/Kg wet | 40.0 | | 114 | 61-132 | | | | 1 |
| 1,2-Dibromoethane | 42.6 | 2.00 | ug/Kg wet | 40.0 | | 106 | 78-122 | | | | 1 |
| 1,2-Dichlorobenzene | 45.7 | 10.0 | ug/Kg wet | 40.0 | | 114 | 78-121 | | | | 1 |
| 1,2-Dichloroethane | 40.9 | 2.00 | ug/Kg wet | 40.0 | | 102 | 73-128 | | | | 1 |
| 1,2-Dichloropropane | 44.5 | 2.00 | ug/Kg wet | 40.0 | | 111 | 76-123 | | | | 1 |
| 1,3,5-Trimethylbenzene | 45.0 | 4.00 | ug/Kg wet | 40.0 | | 113 | 73-124 | | | | 1 |
| 1,3-Dichlorobenzene | 45.6 | 4.00 | ug/Kg wet | 40.0 | | 114 | 77-121 | | | | 1 |
| 1,3-Dichloropropane | 45.5 | 2.00 | ug/Kg wet | 40.0 | | 114 | 77-121 | | | | 1 |
| 1,4-Dioxane | 483 | 80.0 | ug/Kg wet | 400 | | 121 | 55-138 | | | | 1 |
| 1,4-Dichlorobenzene | 46.6 | 10.0 | ug/Kg wet | 40.0 | | 116 | 75-120 | | | | 1 |
| 1-Propanol | 440 | 200 | ug/Kg wet | 400 | | 110 | 70-130 | | | | 1 |
| 2,2-Dichloropropane | 47.6 | 2.00 | ug/Kg wet | 40.0 | | 119 | 67-133 | | | | 1 |
| 2-Butanone | 160 | 28.0 | ug/Kg wet | 140 | | 114 | 51-148 | | | | 1 |
| 2-Chloroethyl vinyl ether | 38.9 | 100 | ug/Kg wet | 40.0 | | 97 | 43-149 | | | J | 1 |
| 2-Chlorotoluene | 46.1 | 4.00 | ug/Kg wet | 40.0 | | 115 | 75-122 | | | | 1 |
| 2-Hexanone | 154 | 28.0 | ug/Kg wet | 140 | | 110 | 53-145 | | | | 1 |
| 4-Chlorotoluene | 44.8 | 4.00 | ug/Kg wet | 40.0 | | 112 | 72-124 | | | | 1 |
| 4-Isopropyltoluene | 49.9 | 8.00 | ug/Kg wet | 40.0 | | 125 | 73-127 | | | | 1 |
| 4-Methyl-2-pentanone | 147 | 28.0 | ug/Kg wet | 140 | | 105 | 65-135 | | | | 1 |
| Acetone | 179 | 70.0 | ug/Kg wet | 140 | | 128 | 36-164 | | | | 1 |
| Acetonitrile | 114 | 200 | ug/Kg wet | 100 | | 114 | 54-143 | | | J | 1 |
| Acrolein | 117 | 40.0 | ug/Kg wet | 100 | | 117 | 47-155 | | | | 1 |
| Acrylonitrile | 46.7 | 4.00 | ug/Kg wet | 40.0 | | 117 | 65-134 | | | | 1 |
| Benzene | 43.9 | 2.00 | ug/Kg wet | 40.0 | | 110 | 77-121 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0623 - SW5035*** *(Continued)*

**(B24J0623-BS1), LCS** (Continued) *Prepared: 10/08/2024 08:05 Analyzed: 10/08/2024 11:22*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 43.4 | 4.00 | ug/Kg wet | 40.0 | | 108 | 78-121 | | | | 1 |
| Bromochloromethane | 43.4 | 4.00 | ug/Kg wet | 40.0 | | 108 | 78-125 | | | | 1 |
| Bromodichloromethane | 40.8 | 2.00 | ug/Kg wet | 40.0 | | 102 | 75-127 | | | | 1 |
| Bromoform | 38.6 | 4.00 | ug/Kg wet | 40.0 | | 97 | 67-132 | | | | 1 |
| Bromomethane | 50.2 | 20.0 | ug/Kg wet | 40.0 | | 126 | 53-143 | | | | 1 |
| Carbon disulfide | 39.8 | 4.00 | ug/Kg wet | 40.0 | | 99 | 63-132 | | | | 1 |
| Carbon tetrachloride | 42.7 | 20.0 | ug/Kg wet | 40.0 | | 107 | 70-135 | | | | 1 |
| Chlorobenzene | 43.9 | 4.00 | ug/Kg wet | 40.0 | | 110 | 79-120 | | | | 1 |
| Chloroethane | 35.0 | 8.00 | ug/Kg wet | 40.0 | | 88 | 59-139 | | | | 1 |
| Chloroform | 42.9 | 4.00 | ug/Kg wet | 40.0 | | 107 | 78-123 | | | | 1 |
| Chloromethane | 42.0 | 8.00 | ug/Kg wet | 40.0 | | 105 | 50-136 | | | | 1 |
| cis-1,2-Dichloroethene | 43.5 | 4.00 | ug/Kg wet | 40.0 | | 109 | 77-123 | | | | 1 |
| cis-1,3-Dichloropropene | 41.8 | 4.00 | ug/Kg wet | 40.0 | | 104 | 74-126 | | | | 1 |
| Cyclohexane | 43.1 | 10.0 | ug/Kg wet | 40.0 | | 108 | 67-131 | | | | 1 |
| Dibromochloromethane | 41.4 | 2.00 | ug/Kg wet | 40.0 | | 104 | 74-126 | | | | 1 |
| Dibromomethane | 42.3 | 2.00 | ug/Kg wet | 40.0 | | 106 | 78-125 | | | | 1 |
| Dichlorodifluoromethane | 41.5 | 10.0 | ug/Kg wet | 40.0 | | 104 | 29-149 | | | | 1 |
| Ethylbenzene | 44.5 | 8.00 | ug/Kg wet | 40.0 | | 111 | 76-122 | | | | 1 |
| Isobutanol | 452 | 80.0 | ug/Kg wet | 400 | | 113 | 60-135 | | | | 1 |
| Isopropanol | 425 | 80.0 | ug/Kg wet | 400 | | 106 | 60-140 | | | | 1 |
| Isopropylbenzene | 45.6 | 4.00 | ug/Kg wet | 40.0 | | 114 | 68-134 | | | | 1 |
| m,p-Xylene | 87.4 | 8.00 | ug/Kg wet | 80.0 | | 109 | 77-124 | | | | 1 |
| Methyl tert-butyl ether | 44.9 | 2.00 | ug/Kg wet | 40.0 | | 112 | 73-125 | | | | 1 |
| Methylene chloride | 38.5 | 20.0 | ug/Kg wet | 40.0 | | 96 | 70-128 | | | | 1 |
| n-Butylbenzene | 53.9 | 20.0 | ug/Kg wet | 40.0 | | 135 | 70-128 | | | S | 1 |
| n-Propylbenzene | 44.9 | 4.00 | ug/Kg wet | 40.0 | | 112 | 73-125 | | | | 1 |
| Naphthalene | 53.0 | 40.0 | ug/Kg wet | 40.0 | | 132 | 62-129 | | | S | 1 |
| o-Xylene | 44.8 | 8.00 | ug/Kg wet | 40.0 | | 112 | 77-123 | | | | 1 |
| sec-Butylbenzene | 50.9 | 4.00 | ug/Kg wet | 40.0 | | 127 | 73-126 | | | S | 1 |
| Styrene | 43.0 | 8.00 | ug/Kg wet | 40.0 | | 108 | 76-124 | | | | 1 |
| tert-Butylbenzene | 45.3 | 4.00 | ug/Kg wet | 40.0 | | 113 | 73-125 | | | | 1 |
| Tetrachloroethene | 43.6 | 4.00 | ug/Kg wet | 40.0 | | 109 | 73-128 | | | | 1 |
| Tetrahydrofuran | 45.1 | 10.0 | ug/Kg wet | 40.0 | | 113 | 61-135 | | | | 1 |
| Toluene | 44.3 | 2.00 | ug/Kg wet | 40.0 | | 111 | 77-121 | | | | 1 |
| trans-1,2-Dichloroethene | 45.0 | 4.00 | ug/Kg wet | 40.0 | | 113 | 74-125 | | | | 1 |
| trans-1,3-Dichloropropene | 40.2 | 4.00 | ug/Kg wet | 40.0 | | 101 | 71-130 | | | | 1 |
| Trichloroethene | 44.4 | 2.00 | ug/Kg wet | 40.0 | | 111 | 77-123 | | | | 1 |
| Trichlorofluoromethane | 42.5 | 2.00 | ug/Kg wet | 40.0 | | 106 | 62-140 | | | | 1 |
| Vinyl acetate | 49.5 | 4.00 | ug/Kg wet | 40.0 | | 124 | 50-151 | | | | 1 |
| Vinyl chloride | 38.1 | 4.00 | ug/Kg wet | 40.0 | | 95 | 56-135 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0623 - SW5035*** *(Continued)* | | | | | | | | | | | |
| **(B24J0623-BS1), LCS** (Continued) | | | | *Prepared: 10/08/2024 08:05* | | | *Analyzed: 10/08/2024 11:22* | | | | |
| Xylenes, Total | 132 | 12.0 | ug/Kg wet | 120 | | 110 | 78-124 | | | | 1 |
| 1,2-Dichloroethene, Total | 88.5 | 8.00 | ug/Kg wet | 80.0 | | 111 | 78-122 | | | | 1 |
| *Surrogate: Dibromofluoromethane* | *19.8* | | *ug/Kg* | *20.0* | | *99* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *19.5* | | *ug/Kg* | *20.0* | | *98* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *20.2* | | *ug/Kg* | *20.0* | | *101* | *81-114* | | | | 1 |
| *Surrogate: Toluene-d8* | *19.8* | | *ug/Kg* | *20.0* | | *99* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *10.0* | | *ug/Kg* | *10.0* | | *100* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *20.5* | | *ug/Kg* | *20.0* | | *103* | *78-121* | | | | 1 |
| **(B24J0623-MS1), Matrix Spike** | | **Source: O24J0276-11** | | *Prepared: 10/08/2024 08:05* | | | *Analyzed: 10/08/2024 20:34* | | | | |
| 1,1,1,2-Tetrachloroethane | 29.8 | 1.64 | ug/Kg dry | 32.8 | ND | 91 | 78-125 | | | | 1 |
| 1,1,1-Trichloroethane | 29.3 | 1.64 | ug/Kg dry | 32.8 | ND | 89 | 73-130 | | | | 1 |
| 1,1,2,2-Tetrachloroethane | 33.3 | 1.64 | ug/Kg dry | 32.8 | ND | 102 | 70-124 | | | | 1 |
| 1,1,2-Trichloroethane | 31.0 | 1.64 | ug/Kg dry | 32.8 | ND | 94 | 78-121 | | | | 1 |
| 1,1-Dichloroethane | 29.2 | 3.28 | ug/Kg dry | 32.8 | ND | 89 | 76-125 | | | | 1 |
| 1,1-Dichloroethene | 30.8 | 1.64 | ug/Kg dry | 32.8 | ND | 94 | 70-131 | | | | 1 |
| 1,1-Dichloropropene | 29.1 | 16.4 | ug/Kg dry | 32.8 | ND | 89 | 76-125 | | | | 1 |
| 1,2,3-Trichlorobenzene | 29.8 | 32.8 | ug/Kg dry | 32.8 | ND | 91 | 66-130 | | | J | 1 |
| 1,2,3-Trichloropropane | 35.2 | 16.4 | ug/Kg dry | 32.8 | ND | 107 | 73-125 | | | | 1 |
| 1,2,4-Trichlorobenzene | 23.7 | 32.8 | ug/Kg dry | 32.8 | ND | 72 | 67-129 | | | J | 1 |
| 1,2,4-Trimethylbenzene | 27.9 | 6.56 | ug/Kg dry | 32.8 | ND | 85 | 75-123 | | | | 1 |
| 1,2-Dibromo-3-chloropropane | 37.4 | 6.56 | ug/Kg dry | 32.8 | ND | 114 | 61-132 | | | | 1 |
| 1,2-Dibromoethane | 31.3 | 1.64 | ug/Kg dry | 32.8 | ND | 95 | 78-122 | | | | 1 |
| 1,2-Dichlorobenzene | 27.0 | 8.20 | ug/Kg dry | 32.8 | ND | 82 | 78-121 | | | | 1 |
| 1,2-Dichloroethane | 28.1 | 1.64 | ug/Kg dry | 32.8 | ND | 86 | 73-128 | | | | 1 |
| 1,2-Dichloropropane | 30.7 | 1.64 | ug/Kg dry | 32.8 | ND | 94 | 76-123 | | | | 1 |
| 1,3,5-Trimethylbenzene | 27.6 | 3.28 | ug/Kg dry | 32.8 | ND | 84 | 73-124 | | | | 1 |
| 1,3-Dichlorobenzene | 26.7 | 3.28 | ug/Kg dry | 32.8 | ND | 81 | 77-121 | | | | 1 |
| 1,3-Dichloropropane | 32.9 | 1.64 | ug/Kg dry | 32.8 | ND | 100 | 77-121 | | | | 1 |
| 1,4-Dioxane | 446 | 65.6 | ug/Kg dry | 328 | ND | 136 | 55-138 | | | | 1 |
| 1,4-Dichlorobenzene | 27.0 | 8.20 | ug/Kg dry | 32.8 | ND | 82 | 75-120 | | | | 1 |
| 1-Propanol | 377 | 164 | ug/Kg dry | 328 | ND | 115 | 70-130 | | | | 1 |
| 2,2-Dichloropropane | 27.8 | 1.64 | ug/Kg dry | 32.8 | ND | 85 | 67-133 | | | | 1 |
| 2-Butanone | 122 | 23.0 | ug/Kg dry | 115 | ND | 106 | 51-148 | | | | 1 |
| 2-Chloroethyl vinyl ether | <41.0 | 82.0 | ug/Kg dry | 32.8 | ND | 0 | 43-149 | | | X, U | 1 |
| 2-Chlorotoluene | 28.0 | 3.28 | ug/Kg dry | 32.8 | ND | 85 | 75-122 | | | | 1 |
| 2-Hexanone | 124 | 23.0 | ug/Kg dry | 115 | ND | 108 | 53-145 | | | | 1 |
| 4-Chlorotoluene | 26.6 | 3.28 | ug/Kg dry | 32.8 | ND | 81 | 72-124 | | | | 1 |
| 4-Isopropyltoluene | 29.2 | 6.56 | ug/Kg dry | 32.8 | ND | 89 | 73-127 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0623 - SW5035*** *(Continued)*

**(B24J0623-MS1), Matrix Spike** (Continued) **Source: O24J0276-11** *Prepared: 10/08/2024 08:05 Analyzed: 10/08/2024 20:34*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone | 126 | 23.0 | ug/Kg dry | 115 | ND | 110 | 65-135 | | | | 1 |
| Acetone | 116 | 57.4 | ug/Kg dry | 115 | ND | 101 | 36-164 | | | | 1 |
| Acetonitrile | 75.2 | 164 | ug/Kg dry | 82.0 | ND | 92 | 54-143 | | | J | 1 |
| Acrolein | 26.6 | 32.8 | ug/Kg dry | 82.0 | ND | 32 | 47-155 | | | S, J | 1 |
| Acrylonitrile | 37.2 | 3.28 | ug/Kg dry | 32.8 | ND | 113 | 65-134 | | | | 1 |
| Benzene | 29.4 | 1.64 | ug/Kg dry | 32.8 | ND | 90 | 77-121 | | | | 1 |
| Bromobenzene | 28.7 | 3.28 | ug/Kg dry | 32.8 | ND | 88 | 78-121 | | | | 1 |
| Bromochloromethane | 29.3 | 3.28 | ug/Kg dry | 32.8 | ND | 89 | 78-125 | | | | 1 |
| Bromodichloromethane | 27.6 | 1.64 | ug/Kg dry | 32.8 | ND | 84 | 75-127 | | | | 1 |
| Bromoform | 30.6 | 3.28 | ug/Kg dry | 32.8 | ND | 93 | 67-132 | | | | 1 |
| Bromomethane | 31.5 | 16.4 | ug/Kg dry | 32.8 | ND | 96 | 53-143 | | | | 1 |
| Carbon disulfide | 27.2 | 3.28 | ug/Kg dry | 32.8 | ND | 83 | 63-132 | | | | 1 |
| Carbon tetrachloride | 26.7 | 16.4 | ug/Kg dry | 32.8 | ND | 81 | 70-135 | | | | 1 |
| Chlorobenzene | 27.8 | 3.28 | ug/Kg dry | 32.8 | ND | 85 | 79-120 | | | | 1 |
| Chloroethane | 26.8 | 6.56 | ug/Kg dry | 32.8 | ND | 82 | 59-139 | | | | 1 |
| Chloroform | 29.1 | 3.28 | ug/Kg dry | 32.8 | ND | 89 | 78-123 | | | | 1 |
| Chloromethane | 30.9 | 6.56 | ug/Kg dry | 32.8 | ND | 94 | 50-136 | | | | 1 |
| cis-1,2-Dichloroethene | 30.8 | 3.28 | ug/Kg dry | 32.8 | ND | 94 | 77-123 | | | | 1 |
| cis-1,3-Dichloropropene | 26.7 | 3.28 | ug/Kg dry | 32.8 | ND | 81 | 74-126 | | | | 1 |
| Cyclohexane | 30.4 | 8.20 | ug/Kg dry | 32.8 | ND | 93 | 67-131 | | | | 1 |
| Dibromochloromethane | 29.1 | 1.64 | ug/Kg dry | 32.8 | ND | 89 | 74-126 | | | | 1 |
| Dibromomethane | 31.5 | 1.64 | ug/Kg dry | 32.8 | ND | 96 | 78-125 | | | | 1 |
| Dichlorodifluoromethane | 28.0 | 8.20 | ug/Kg dry | 32.8 | ND | 85 | 29-149 | | | | 1 |
| Ethylbenzene | 27.9 | 6.56 | ug/Kg dry | 32.8 | ND | 85 | 76-122 | | | | 1 |
| Isobutanol | 404 | 65.6 | ug/Kg dry | 328 | ND | 123 | 60-135 | | | | 1 |
| Isopropanol | 410 | 65.6 | ug/Kg dry | 328 | ND | 125 | 60-140 | | | | 1 |
| Isopropylbenzene | 28.9 | 3.28 | ug/Kg dry | 32.8 | ND | 88 | 68-134 | | | | 1 |
| m,p-Xylene | 55.3 | 6.56 | ug/Kg dry | 65.6 | ND | 84 | 77-124 | | | | 1 |
| Methyl tert-butyl ether | 33.4 | 1.64 | ug/Kg dry | 32.8 | ND | 102 | 73-125 | | | | 1 |
| Methylene chloride | 26.2 | 16.4 | ug/Kg dry | 32.8 | ND | 80 | 70-128 | | | | 1 |
| n-Butylbenzene | 29.6 | 16.4 | ug/Kg dry | 32.8 | ND | 90 | 70-128 | | | | 1 |
| n-Propylbenzene | 27.8 | 3.28 | ug/Kg dry | 32.8 | ND | 85 | 73-125 | | | | 1 |
| Naphthalene | 34.6 | 32.8 | ug/Kg dry | 32.8 | ND | 105 | 62-129 | | | | 1 |
| o-Xylene | 28.9 | 6.56 | ug/Kg dry | 32.8 | ND | 88 | 77-123 | | | | 1 |
| sec-Butylbenzene | 30.4 | 3.28 | ug/Kg dry | 32.8 | ND | 93 | 73-126 | | | | 1 |
| Styrene | 24.0 | 6.56 | ug/Kg dry | 32.8 | ND | 73 | 76-124 | | | S | 1 |
| tert-Butylbenzene | 28.7 | 3.28 | ug/Kg dry | 32.8 | ND | 87 | 73-125 | | | | 1 |
| Tetrachloroethene | 26.4 | 3.28 | ug/Kg dry | 32.8 | ND | 81 | 73-128 | | | | 1 |
| Tetrahydrofuran | 36.0 | 8.20 | ug/Kg dry | 32.8 | ND | 110 | 61-135 | | | | 1 |
| Toluene | 28.4 | 1.64 | ug/Kg dry | 32.8 | ND | 87 | 77-121 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0623 - SW5035*** *(Continued)* | | | | | | | | | | | |
| **(B24J0623-MS1), Matrix Spike** (Continued) | | | **Source: O24J0276-11** | *Prepared: 10/08/2024 08:05* | | | *Analyzed: 10/08/2024 20:34* | | | | |
| trans-1,2-Dichloroethene | 30.8 | 3.28 | ug/Kg dry | 32.8 | ND | 94 | 74-125 | | | | 1 |
| trans-1,3-Dichloropropene | 25.8 | 3.28 | ug/Kg dry | 32.8 | ND | 79 | 71-130 | | | | 1 |
| Trichloroethene | 28.2 | 1.64 | ug/Kg dry | 32.8 | ND | 86 | 77-123 | | | | 1 |
| Trichlorofluoromethane | 28.1 | 1.64 | ug/Kg dry | 32.8 | ND | 86 | 62-140 | | | | 1 |
| Vinyl acetate | 5.15 | 3.28 | ug/Kg dry | 32.8 | ND | 16 | 50-151 | | | S | 1 |
| Vinyl chloride | 28.4 | 3.28 | ug/Kg dry | 32.8 | ND | 87 | 56-135 | | | | 1 |
| Xylenes, Total | 84.2 | 9.84 | ug/Kg dry | 98.4 | ND | 86 | 78-124 | | | | 1 |
| 1,2-Dichloroethene, Total | 61.6 | 6.56 | ug/Kg dry | 65.6 | ND | 94 | 78-122 | | | | 1 |
| *Surrogate: Dibromofluoromethane* | *20.8* | | *ug/Kg* | *20.0* | | *104* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *20.6* | | *ug/Kg* | *20.0* | | *103* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *20.2* | | *ug/Kg* | *20.0* | | *101* | *81-114* | | | | 1 |
| *Surrogate: Toluene-d8* | *20.2* | | *ug/Kg* | *20.0* | | *101* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *9.86* | | *ug/Kg* | *10.0* | | *99* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *20.7* | | *ug/Kg* | *20.0* | | *104* | *78-121* | | | | 1 |
| **(B24J0623-MSD1), Matrix Spike Dup** | | | **Source: O24J0276-11** | *Prepared: 10/08/2024 08:05* | | | *Analyzed: 10/08/2024 21:03* | | | | |
| 1,1,1,2-Tetrachloroethane | 34.1 | 1.70 | ug/Kg dry | 34.1 | ND | 100 | 78-125 | 13 | 20 | | 1 |
| 1,1,1-Trichloroethane | 31.7 | 1.70 | ug/Kg dry | 34.1 | ND | 93 | 73-130 | 8 | 20 | | 1 |
| 1,1,2,2-Tetrachloroethane | 36.4 | 1.70 | ug/Kg dry | 34.1 | ND | 107 | 70-124 | 9 | 20 | | 1 |
| 1,1,2-Trichloroethane | 35.4 | 1.70 | ug/Kg dry | 34.1 | ND | 104 | 78-121 | 13 | 20 | | 1 |
| 1,1-Dichloroethane | 32.2 | 3.41 | ug/Kg dry | 34.1 | ND | 95 | 76-125 | 10 | 20 | | 1 |
| 1,1-Dichloroethene | 33.8 | 1.70 | ug/Kg dry | 34.1 | ND | 99 | 70-131 | 9 | 20 | | 1 |
| 1,1-Dichloropropene | 30.9 | 17.0 | ug/Kg dry | 34.1 | ND | 91 | 76-125 | 6 | 20 | | 1 |
| 1,2,3-Trichlorobenzene | 31.7 | 34.1 | ug/Kg dry | 34.1 | ND | 93 | 66-130 | 6 | 20 | J | 1 |
| 1,2,3-Trichloropropane | 38.9 | 17.0 | ug/Kg dry | 34.1 | ND | 114 | 73-125 | 10 | 20 | | 1 |
| 1,2,4-Trichlorobenzene | 24.2 | 34.1 | ug/Kg dry | 34.1 | ND | 71 | 67-129 | 2 | 20 | J | 1 |
| 1,2,4-Trimethylbenzene | 25.7 | 6.81 | ug/Kg dry | 34.1 | ND | 76 | 75-123 | 8 | 20 | | 1 |
| 1,2-Dibromo-3-chloropropane | 43.4 | 6.81 | ug/Kg dry | 34.1 | ND | 127 | 61-132 | 15 | 20 | | 1 |
| 1,2-Dibromoethane | 35.6 | 1.70 | ug/Kg dry | 34.1 | ND | 104 | 78-122 | 13 | 20 | | 1 |
| 1,2-Dichlorobenzene | 28.2 | 8.52 | ug/Kg dry | 34.1 | ND | 83 | 78-121 | 5 | 20 | | 1 |
| 1,2-Dichloroethane | 31.3 | 1.70 | ug/Kg dry | 34.1 | ND | 92 | 73-128 | 11 | 20 | | 1 |
| 1,2-Dichloropropane | 35.2 | 1.70 | ug/Kg dry | 34.1 | ND | 103 | 76-123 | 13 | 20 | | 1 |
| 1,3,5-Trimethylbenzene | 27.7 | 3.41 | ug/Kg dry | 34.1 | ND | 81 | 73-124 | 0.7 | 20 | | 1 |
| 1,3-Dichlorobenzene | 27.4 | 3.41 | ug/Kg dry | 34.1 | ND | 80 | 77-121 | 3 | 20 | | 1 |
| 1,3-Dichloropropane | 37.8 | 1.70 | ug/Kg dry | 34.1 | ND | 111 | 77-121 | 14 | 20 | | 1 |
| 1,4-Dioxane | 468 | 68.1 | ug/Kg dry | 341 | ND | 138 | 55-138 | 5 | 20 | | 1 |
| 1,4-Dichlorobenzene | 26.8 | 8.52 | ug/Kg dry | 34.1 | ND | 79 | 75-120 | 0.7 | 20 | | 1 |
| 1-Propanol | 492 | 170 | ug/Kg dry | 341 | ND | 144 | 70-130 | 26 | 20 | S | 1 |
| 2,2-Dichloropropane | 29.7 | 1.70 | ug/Kg dry | 34.1 | ND | 87 | 67-133 | 7 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0623 - SW5035*** *(Continued)*

**(B24J0623-MSD1), Matrix Spike Dup** (Continue **Source: O24J0276-11** *Prepared: 10/08/2024 08:05 Analyzed: 10/08/2024 21:03*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 146 | 23.8 | ug/Kg dry | 119 | ND | 122 | 51-148 | 18 | 20 | | 1 |
| 2-Chloroethyl vinyl ether | <42.6 | 85.2 | ug/Kg dry | 34.1 | ND | 0 | 43-149 | | 20 | X, U | 1 |
| 2-Chlorotoluene | 29.6 | 3.41 | ug/Kg dry | 34.1 | ND | 87 | 75-122 | 5 | 20 | | 1 |
| 2-Hexanone | 149 | 23.8 | ug/Kg dry | 119 | ND | 125 | 53-145 | 18 | 20 | | 1 |
| 4-Chlorotoluene | 27.3 | 3.41 | ug/Kg dry | 34.1 | ND | 80 | 72-124 | 3 | 20 | | 1 |
| 4-Isopropyltoluene | 27.8 | 6.81 | ug/Kg dry | 34.1 | ND | 82 | 73-127 | 5 | 20 | | 1 |
| 4-Methyl-2-pentanone | 143 | 23.8 | ug/Kg dry | 119 | ND | 120 | 65-135 | 12 | 20 | | 1 |
| Acetone | 140 | 59.6 | ug/Kg dry | 119 | ND | 118 | 36-164 | 19 | 20 | | 1 |
| Acetonitrile | 83.7 | 170 | ug/Kg dry | 85.2 | ND | 98 | 54-143 | 11 | 20 | J | 1 |
| Acrolein | 26.9 | 34.1 | ug/Kg dry | 85.2 | ND | 32 | 47-155 | 1 | 20 | S, J | 1 |
| Acrylonitrile | 40.6 | 3.41 | ug/Kg dry | 34.1 | ND | 119 | 65-134 | 9 | 20 | | 1 |
| Benzene | 32.9 | 1.70 | ug/Kg dry | 34.1 | ND | 96 | 77-121 | 11 | 20 | | 1 |
| Bromobenzene | 31.0 | 3.41 | ug/Kg dry | 34.1 | ND | 91 | 78-121 | 8 | 20 | | 1 |
| Bromochloromethane | 33.7 | 3.41 | ug/Kg dry | 34.1 | ND | 99 | 78-125 | 14 | 20 | | 1 |
| Bromodichloromethane | 30.3 | 1.70 | ug/Kg dry | 34.1 | ND | 89 | 75-127 | 9 | 20 | | 1 |
| Bromoform | 34.5 | 3.41 | ug/Kg dry | 34.1 | ND | 101 | 67-132 | 12 | 20 | | 1 |
| Bromomethane | 36.5 | 17.0 | ug/Kg dry | 34.1 | ND | 107 | 53-143 | 15 | 20 | | 1 |
| Carbon disulfide | 29.2 | 3.41 | ug/Kg dry | 34.1 | ND | 86 | 63-132 | 7 | 20 | | 1 |
| Carbon tetrachloride | 29.3 | 17.0 | ug/Kg dry | 34.1 | ND | 86 | 70-135 | 9 | 20 | | 1 |
| Chlorobenzene | 31.3 | 3.41 | ug/Kg dry | 34.1 | ND | 92 | 79-120 | 12 | 20 | | 1 |
| Chloroethane | 29.1 | 6.81 | ug/Kg dry | 34.1 | ND | 85 | 59-139 | 8 | 20 | | 1 |
| Chloroform | 32.6 | 3.41 | ug/Kg dry | 34.1 | ND | 96 | 78-123 | 11 | 20 | | 1 |
| Chloromethane | 32.8 | 6.81 | ug/Kg dry | 34.1 | ND | 96 | 50-136 | 6 | 20 | | 1 |
| cis-1,2-Dichloroethene | 33.2 | 3.41 | ug/Kg dry | 34.1 | ND | 97 | 77-123 | 7 | 20 | | 1 |
| cis-1,3-Dichloropropene | 30.4 | 3.41 | ug/Kg dry | 34.1 | ND | 89 | 74-126 | 13 | 20 | | 1 |
| Cyclohexane | 31.4 | 8.52 | ug/Kg dry | 34.1 | ND | 92 | 67-131 | 3 | 20 | | 1 |
| Dibromochloromethane | 33.1 | 1.70 | ug/Kg dry | 34.1 | ND | 97 | 74-126 | 13 | 20 | | 1 |
| Dibromomethane | 35.0 | 1.70 | ug/Kg dry | 34.1 | ND | 103 | 78-125 | 10 | 20 | | 1 |
| Dichlorodifluoromethane | 29.9 | 8.52 | ug/Kg dry | 34.1 | ND | 88 | 29-149 | 6 | 20 | | 1 |
| Ethylbenzene | 30.2 | 6.81 | ug/Kg dry | 34.1 | ND | 89 | 76-122 | 8 | 20 | | 1 |
| Isobutanol | 459 | 68.1 | ug/Kg dry | 341 | ND | 135 | 60-135 | 13 | 20 | | 1 |
| Isopropanol | 427 | 68.1 | ug/Kg dry | 341 | ND | 125 | 60-140 | 4 | 20 | | 1 |
| Isopropylbenzene | 29.6 | 3.41 | ug/Kg dry | 34.1 | ND | 87 | 68-134 | 2 | 20 | | 1 |
| m,p-Xylene | 58.6 | 6.81 | ug/Kg dry | 68.1 | ND | 86 | 77-124 | 6 | 20 | | 1 |
| Methyl tert-butyl ether | 39.0 | 1.70 | ug/Kg dry | 34.1 | ND | 114 | 73-125 | 15 | 20 | | 1 |
| Methylene chloride | 29.3 | 17.0 | ug/Kg dry | 34.1 | ND | 86 | 70-128 | 11 | 20 | | 1 |
| n-Butylbenzene | 26.9 | 17.0 | ug/Kg dry | 34.1 | ND | 79 | 70-128 | 10 | 20 | | 1 |
| n-Propylbenzene | 27.7 | 3.41 | ug/Kg dry | 34.1 | ND | 81 | 73-125 | 0.2 | 20 | | 1 |
| Naphthalene | 35.5 | 34.1 | ug/Kg dry | 34.1 | ND | 104 | 62-129 | 2 | 20 | | 1 |
| o-Xylene | 30.9 | 6.81 | ug/Kg dry | 34.1 | ND | 91 | 77-123 | 7 | 20 | | 1 |

## Quality Control
(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0623 - SW5035*** *(Continued)* | | | | | | | | | | | |
| **(B24J0623-MSD1), Matrix Spike Dup** (Continue | | | **Source: O24J0276-11** | *Prepared: 10/08/2024 08:05* | | *Analyzed: 10/08/2024 21:03* | | | | | |
| sec-Butylbenzene | 29.9 | 3.41 | ug/Kg dry | 34.1 | ND | 88 | 73-126 | 2 | 20 | | 1 |
| Styrene | 11.4 | 6.81 | ug/Kg dry | 34.1 | ND | 34 | 76-124 | 71 | 20 | S | 1 |
| tert-Butylbenzene | 29.2 | 3.41 | ug/Kg dry | 34.1 | ND | 86 | 73-125 | 2 | 20 | | 1 |
| Tetrachloroethene | 28.5 | 3.41 | ug/Kg dry | 34.1 | ND | 84 | 73-128 | 8 | 20 | | 1 |
| Tetrahydrofuran | 42.9 | 8.52 | ug/Kg dry | 34.1 | ND | 126 | 61-135 | 18 | 20 | | 1 |
| Toluene | 31.8 | 1.70 | ug/Kg dry | 34.1 | ND | 93 | 77-121 | 11 | 20 | | 1 |
| trans-1,2-Dichloroethene | 33.8 | 3.41 | ug/Kg dry | 34.1 | ND | 99 | 74-125 | 9 | 20 | | 1 |
| trans-1,3-Dichloropropene | 29.6 | 3.41 | ug/Kg dry | 34.1 | ND | 87 | 71-130 | 14 | 20 | | 1 |
| Trichloroethene | 31.0 | 1.70 | ug/Kg dry | 34.1 | ND | 91 | 77-123 | 9 | 20 | | 1 |
| Trichlorofluoromethane | 30.8 | 1.70 | ug/Kg dry | 34.1 | ND | 91 | 62-140 | 9 | 20 | | 1 |
| Vinyl acetate | 7.10 | 3.41 | ug/Kg dry | 34.1 | ND | 21 | 50-151 | 32 | 20 | S | 1 |
| Vinyl chloride | 31.1 | 3.41 | ug/Kg dry | 34.1 | ND | 91 | 56-135 | 9 | 20 | | 1 |
| Xylenes, Total | 89.5 | 10.2 | ug/Kg dry | 102 | ND | 88 | 78-124 | 6 | 20 | | 1 |
| 1,2-Dichloroethene, Total | 67.0 | 6.81 | ug/Kg dry | 68.1 | ND | 98 | 78-122 | 8 | 20 | | 1 |
| *Surrogate: Dibromofluoromethane* | *20.7* | | *ug/Kg* | *20.0* | | *104* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *20.4* | | *ug/Kg* | *20.0* | | *102* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *20.0* | | *ug/Kg* | *20.0* | | *100* | *81-114* | | | | 1 |
| *Surrogate: Toluene-d8* | *20.3* | | *ug/Kg* | *20.0* | | *101* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *10.0* | | *ug/Kg* | *10.0* | | *100* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *21.2* | | *ug/Kg* | *20.0* | | *106* | *78-121* | | | | 1 |
| ***Batch: B24J0625 - SW5035*** | | | | | | | | | | | |
| **(B24J0625-BLK1), Blank** | | | | *Prepared: 10/09/2024 08:14* | | *Analyzed: 10/09/2024 10:23* | | | | | |
| 1,1,1,2-Tetrachloroethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1,1-Trichloroethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1,2,2-Tetrachloroethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1,2-Trichloroethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1-Dichloroethane | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1-Dichloroethene | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,1-Dichloropropene | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,3-Trichlorobenzene | <20.0 | 40.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,3-Trichloropropane | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,4-Trichlorobenzene | <20.0 | 40.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,4-Trimethylbenzene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dibromo-3-chloropropane | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dibromoethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichlorobenzene | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichloroethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0625 - SW5035*** *(Continued)*

**(B24J0625-BLK1), Blank** (Continued) *Prepared: 10/09/2024 08:14 Analyzed: 10/09/2024 10:23*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,3,5-Trimethylbenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,3-Dichlorobenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,3-Dichloropropane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,4-Dioxane | <40.0 | 80.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,4-Dichlorobenzene | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| 1-Propanol | <100 | 200 | ug/Kg wet | | | | | | | U | 1 |
| 2,2-Dichloropropane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| 2-Butanone | <14.0 | 28.0 | ug/Kg wet | | | | | | | U | 1 |
| 2-Chloroethyl vinyl ether | <50.0 | 100 | ug/Kg wet | | | | | | | U | 1 |
| 2-Chlorotoluene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 2-Hexanone | <14.0 | 28.0 | ug/Kg wet | | | | | | | U | 1 |
| 4-Chlorotoluene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 4-Isopropyltoluene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| 4-Methyl-2-pentanone | <14.0 | 28.0 | ug/Kg wet | | | | | | | U | 1 |
| Acetone | <35.0 | 70.0 | ug/Kg wet | | | | | | | U | 1 |
| Acetonitrile | <100 | 200 | ug/Kg wet | | | | | | | U | 1 |
| Acrolein | <20.0 | 40.0 | ug/Kg wet | | | | | | | U | 1 |
| Acrylonitrile | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Benzene | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Bromobenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Bromochloromethane | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Bromodichloromethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Bromoform | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Bromomethane | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Carbon disulfide | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Carbon tetrachloride | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Chlorobenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Chloroethane | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| Chloroform | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Chloromethane | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| cis-1,2-Dichloroethene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| cis-1,3-Dichloropropene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Cyclohexane | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| Dibromochloromethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Dibromomethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Dichlorodifluoromethane | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| Ethylbenzene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| Isobutanol | <40.0 | 80.0 | ug/Kg wet | | | | | | | U | 1 |
| Isopropanol | <40.0 | 80.0 | ug/Kg wet | | | | | | | U | 1 |

## Quality Control
(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0625 - SW5035*** *(Continued)* | | | | | | | | | | | |
| **(B24J0625-BLK1), Blank** (Continued) | | | | *Prepared: 10/09/2024 08:14* | | | *Analyzed: 10/09/2024 10:23* | | | | |
| Isopropylbenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| m,p-Xylene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| Methyl tert-butyl ether | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Methylene chloride | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| n-Butylbenzene | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| n-Propylbenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Naphthalene | <20.0 | 40.0 | ug/Kg wet | | | | | | | U | 1 |
| o-Xylene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| sec-Butylbenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Styrene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| tert-Butylbenzene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Tetrachloroethene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Tetrahydrofuran | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| Toluene | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| trans-1,2-Dichloroethene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| trans-1,3-Dichloropropene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Trichloroethene | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Trichlorofluoromethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Vinyl acetate | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Vinyl chloride | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Xylenes, Total | <6.00 | 12.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichloroethene, Total | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,3-Dichloropropene, Total | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| *Surrogate: Dibromofluoromethane* | *19.5* | | *ug/Kg* | *20.0* | | *98* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *18.0* | | *ug/Kg* | *20.0* | | *90* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *19.4* | | *ug/Kg* | *20.0* | | *97* | *81-114* | | | | 1 |
| *Surrogate: Toluene-d8* | *19.8* | | *ug/Kg* | *20.0* | | *99* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *10.1* | | *ug/Kg* | *10.0* | | *101* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *19.7* | | *ug/Kg* | *20.0* | | *98* | *78-121* | | | | 1 |
| **(B24J0625-BS1), LCS** | | | | *Prepared: 10/09/2024 08:14* | | | *Analyzed: 10/09/2024 10:52* | | | | |
| 1,1,1,2-Tetrachloroethane | 41.2 | 2.00 | ug/Kg wet | 40.0 | | 103 | 78-125 | | | | 1 |
| 1,1,1-Trichloroethane | 38.7 | 2.00 | ug/Kg wet | 40.0 | | 97 | 73-130 | | | | 1 |
| 1,1,2,2-Tetrachloroethane | 39.6 | 2.00 | ug/Kg wet | 40.0 | | 99 | 70-124 | | | | 1 |
| 1,1,2-Trichloroethane | 38.0 | 2.00 | ug/Kg wet | 40.0 | | 95 | 78-121 | | | | 1 |
| 1,1-Dichloroethane | 37.8 | 4.00 | ug/Kg wet | 40.0 | | 94 | 76-125 | | | | 1 |
| 1,1-Dichloroethene | 38.6 | 2.00 | ug/Kg wet | 40.0 | | 96 | 70-131 | | | | 1 |
| 1,1-Dichloropropene | 40.0 | 20.0 | ug/Kg wet | 40.0 | | 100 | 76-125 | | | | 1 |
| 1,2,3-Trichlorobenzene | 54.1 | 40.0 | ug/Kg wet | 40.0 | | 135 | 66-130 | | | S | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0625 - SW5035*** *(Continued)*

**(B24J0625-BS1), LCS** (Continued) *Prepared: 10/09/2024 08:14 Analyzed: 10/09/2024 10:52*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 39.6 | 20.0 | ug/Kg wet | 40.0 | | 99 | 73-125 | | | | 1 |
| 1,2,4-Trichlorobenzene | 49.1 | 40.0 | ug/Kg wet | 40.0 | | 123 | 67-129 | | | | 1 |
| 1,2,4-Trimethylbenzene | 43.7 | 8.00 | ug/Kg wet | 40.0 | | 109 | 75-123 | | | | 1 |
| 1,2-Dibromo-3-chloropropane | 41.4 | 8.00 | ug/Kg wet | 40.0 | | 104 | 61-132 | | | | 1 |
| 1,2-Dibromoethane | 40.1 | 2.00 | ug/Kg wet | 40.0 | | 100 | 78-122 | | | | 1 |
| 1,2-Dichlorobenzene | 42.3 | 10.0 | ug/Kg wet | 40.0 | | 106 | 78-121 | | | | 1 |
| 1,2-Dichloroethane | 36.2 | 2.00 | ug/Kg wet | 40.0 | | 91 | 73-128 | | | | 1 |
| 1,2-Dichloropropane | 43.1 | 2.00 | ug/Kg wet | 40.0 | | 108 | 76-123 | | | | 1 |
| 1,3,5-Trimethylbenzene | 43.1 | 4.00 | ug/Kg wet | 40.0 | | 108 | 73-124 | | | | 1 |
| 1,3-Dichlorobenzene | 45.0 | 4.00 | ug/Kg wet | 40.0 | | 112 | 77-121 | | | | 1 |
| 1,3-Dichloropropane | 43.2 | 2.00 | ug/Kg wet | 40.0 | | 108 | 77-121 | | | | 1 |
| 1,4-Dioxane | 452 | 80.0 | ug/Kg wet | 400 | | 113 | 55-138 | | | | 1 |
| 1,4-Dichlorobenzene | 44.6 | 10.0 | ug/Kg wet | 40.0 | | 112 | 75-120 | | | | 1 |
| 1-Propanol | 355 | 200 | ug/Kg wet | 400 | | 89 | 70-130 | | | | 1 |
| 2,2-Dichloropropane | 41.7 | 2.00 | ug/Kg wet | 40.0 | | 104 | 67-133 | | | | 1 |
| 2-Butanone | 141 | 28.0 | ug/Kg wet | 140 | | 101 | 51-148 | | | | 1 |
| 2-Chloroethyl vinyl ether | 35.7 | 100 | ug/Kg wet | 40.0 | | 89 | 43-149 | | | J | 1 |
| 2-Chlorotoluene | 43.3 | 4.00 | ug/Kg wet | 40.0 | | 108 | 75-122 | | | | 1 |
| 2-Hexanone | 134 | 28.0 | ug/Kg wet | 140 | | 96 | 53-145 | | | | 1 |
| 4-Chlorotoluene | 43.5 | 4.00 | ug/Kg wet | 40.0 | | 109 | 72-124 | | | | 1 |
| 4-Isopropyltoluene | 47.9 | 8.00 | ug/Kg wet | 40.0 | | 120 | 73-127 | | | | 1 |
| 4-Methyl-2-pentanone | 129 | 28.0 | ug/Kg wet | 140 | | 92 | 65-135 | | | | 1 |
| Acetone | 161 | 70.0 | ug/Kg wet | 140 | | 115 | 36-164 | | | | 1 |
| Acetonitrile | 105 | 200 | ug/Kg wet | 100 | | 105 | 54-143 | | | J | 1 |
| Acrolein | 102 | 40.0 | ug/Kg wet | 100 | | 102 | 47-155 | | | | 1 |
| Acrylonitrile | 37.2 | 4.00 | ug/Kg wet | 40.0 | | 93 | 65-134 | | | | 1 |
| Benzene | 40.5 | 2.00 | ug/Kg wet | 40.0 | | 101 | 77-121 | | | | 1 |
| Bromobenzene | 41.8 | 4.00 | ug/Kg wet | 40.0 | | 104 | 78-121 | | | | 1 |
| Bromochloromethane | 39.5 | 4.00 | ug/Kg wet | 40.0 | | 99 | 78-125 | | | | 1 |
| Bromodichloromethane | 37.4 | 2.00 | ug/Kg wet | 40.0 | | 93 | 75-127 | | | | 1 |
| Bromoform | 37.0 | 4.00 | ug/Kg wet | 40.0 | | 92 | 67-132 | | | | 1 |
| Bromomethane | 46.7 | 20.0 | ug/Kg wet | 40.0 | | 117 | 53-143 | | | | 1 |
| Carbon disulfide | 36.0 | 4.00 | ug/Kg wet | 40.0 | | 90 | 63-132 | | | | 1 |
| Carbon tetrachloride | 36.8 | 20.0 | ug/Kg wet | 40.0 | | 92 | 70-135 | | | | 1 |
| Chlorobenzene | 43.0 | 4.00 | ug/Kg wet | 40.0 | | 108 | 79-120 | | | | 1 |
| Chloroethane | 34.4 | 8.00 | ug/Kg wet | 40.0 | | 86 | 59-139 | | | | 1 |
| Chloroform | 38.0 | 4.00 | ug/Kg wet | 40.0 | | 95 | 78-123 | | | | 1 |
| Chloromethane | 39.6 | 8.00 | ug/Kg wet | 40.0 | | 99 | 50-136 | | | | 1 |
| cis-1,2-Dichloroethene | 42.1 | 4.00 | ug/Kg wet | 40.0 | | 105 | 77-123 | | | | 1 |
| cis-1,3-Dichloropropene | 38.6 | 4.00 | ug/Kg wet | 40.0 | | 96 | 74-126 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0625 - SW5035*** *(Continued)* | | | | | | | | | | | |
| **(B24J0625-BS1), LCS** (Continued) | | | | *Prepared: 10/09/2024 08:14* | | | *Analyzed: 10/09/2024 10:52* | | | | |
| Cyclohexane | 39.8 | 10.0 | ug/Kg wet | 40.0 | | 99 | 67-131 | | | | 1 |
| Dibromochloromethane | 38.8 | 2.00 | ug/Kg wet | 40.0 | | 97 | 74-126 | | | | 1 |
| Dibromomethane | 39.8 | 2.00 | ug/Kg wet | 40.0 | | 100 | 78-125 | | | | 1 |
| Dichlorodifluoromethane | 36.2 | 10.0 | ug/Kg wet | 40.0 | | 91 | 29-149 | | | | 1 |
| Ethylbenzene | 42.0 | 8.00 | ug/Kg wet | 40.0 | | 105 | 76-122 | | | | 1 |
| Isobutanol | 392 | 80.0 | ug/Kg wet | 400 | | 98 | 60-135 | | | | 1 |
| Isopropanol | 350 | 80.0 | ug/Kg wet | 400 | | 88 | 60-140 | | | | 1 |
| Isopropylbenzene | 43.8 | 4.00 | ug/Kg wet | 40.0 | | 109 | 68-134 | | | | 1 |
| m,p-Xylene | 83.2 | 8.00 | ug/Kg wet | 80.0 | | 104 | 77-124 | | | | 1 |
| Methyl tert-butyl ether | 41.3 | 2.00 | ug/Kg wet | 40.0 | | 103 | 73-125 | | | | 1 |
| Methylene chloride | 35.8 | 20.0 | ug/Kg wet | 40.0 | | 90 | 70-128 | | | | 1 |
| n-Butylbenzene | 50.6 | 20.0 | ug/Kg wet | 40.0 | | 127 | 70-128 | | | | 1 |
| n-Propylbenzene | 42.9 | 4.00 | ug/Kg wet | 40.0 | | 107 | 73-125 | | | | 1 |
| Naphthalene | 50.0 | 40.0 | ug/Kg wet | 40.0 | | 125 | 62-129 | | | | 1 |
| o-Xylene | 42.8 | 8.00 | ug/Kg wet | 40.0 | | 107 | 77-123 | | | | 1 |
| sec-Butylbenzene | 47.6 | 4.00 | ug/Kg wet | 40.0 | | 119 | 73-126 | | | | 1 |
| Styrene | 42.1 | 8.00 | ug/Kg wet | 40.0 | | 105 | 76-124 | | | | 1 |
| tert-Butylbenzene | 42.8 | 4.00 | ug/Kg wet | 40.0 | | 107 | 73-125 | | | | 1 |
| Tetrachloroethene | 41.1 | 4.00 | ug/Kg wet | 40.0 | | 103 | 73-128 | | | | 1 |
| Tetrahydrofuran | 39.4 | 10.0 | ug/Kg wet | 40.0 | | 98 | 61-135 | | | | 1 |
| Toluene | 41.6 | 2.00 | ug/Kg wet | 40.0 | | 104 | 77-121 | | | | 1 |
| trans-1,2-Dichloroethene | 42.3 | 4.00 | ug/Kg wet | 40.0 | | 106 | 74-125 | | | | 1 |
| trans-1,3-Dichloropropene | 37.0 | 4.00 | ug/Kg wet | 40.0 | | 92 | 71-130 | | | | 1 |
| Trichloroethene | 40.7 | 2.00 | ug/Kg wet | 40.0 | | 102 | 77-123 | | | | 1 |
| Trichlorofluoromethane | 37.5 | 2.00 | ug/Kg wet | 40.0 | | 94 | 62-140 | | | | 1 |
| Vinyl acetate | 46.5 | 4.00 | ug/Kg wet | 40.0 | | 116 | 50-151 | | | | 1 |
| Vinyl chloride | 37.6 | 4.00 | ug/Kg wet | 40.0 | | 94 | 56-135 | | | | 1 |
| Xylenes, Total | 126 | 12.0 | ug/Kg wet | 120 | | 105 | 78-124 | | | | 1 |
| 1,2-Dichloroethene, Total | 84.4 | 8.00 | ug/Kg wet | 80.0 | | 105 | 78-122 | | | | 1 |
| 1,3-Dichloropropene, Total | 75.6 | 4.00 | ug/Kg wet | 80.0 | | 94 | 77-126 | | | | 1 |
| *Surrogate: Dibromofluoromethane* | *19.2* | | *ug/Kg* | *20.0* | | *96* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *17.9* | | *ug/Kg* | *20.0* | | *90* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *20.0* | | *ug/Kg* | *20.0* | | *100* | *81-114* | | | | 1 |
| *Surrogate: Toluene-d8* | *20.3* | | *ug/Kg* | *20.0* | | *101* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *10.3* | | *ug/Kg* | *10.0* | | *103* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *20.2* | | *ug/Kg* | *20.0* | | *101* | *78-121* | | | | 1 |
| **(B24J0625-BSD1), LCS Dup** | | | | *Prepared: 10/09/2024 08:14* | | | *Analyzed: 10/09/2024 11:21* | | | | |
| 1,1,1,2-Tetrachloroethane | 41.3 | 2.00 | ug/Kg wet | 40.0 | | 103 | 78-125 | 0.1 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0625 - SW5035*** *(Continued)*

**(B24J0625-BSD1), LCS Dup** (Continued) *Prepared: 10/09/2024 08:14 Analyzed: 10/09/2024 11:21*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 39.2 | 2.00 | ug/Kg wet | 40.0 | | 98 | 73-130 | 1 | 20 | | 1 |
| 1,1,2,2-Tetrachloroethane | 38.0 | 2.00 | ug/Kg wet | 40.0 | | 95 | 70-124 | 4 | 20 | | 1 |
| 1,1,2-Trichloroethane | 37.0 | 2.00 | ug/Kg wet | 40.0 | | 93 | 78-121 | 3 | 20 | | 1 |
| 1,1-Dichloroethane | 38.3 | 4.00 | ug/Kg wet | 40.0 | | 96 | 76-125 | 1 | 20 | | 1 |
| 1,1-Dichloroethene | 40.7 | 2.00 | ug/Kg wet | 40.0 | | 102 | 70-131 | 5 | 20 | | 1 |
| 1,1-Dichloropropene | 39.7 | 20.0 | ug/Kg wet | 40.0 | | 99 | 76-125 | 0.8 | 20 | | 1 |
| 1,2,3-Trichlorobenzene | 51.0 | 40.0 | ug/Kg wet | 40.0 | | 127 | 66-130 | 6 | 20 | | 1 |
| 1,2,3-Trichloropropane | 37.8 | 20.0 | ug/Kg wet | 40.0 | | 94 | 73-125 | 5 | 20 | | 1 |
| 1,2,4-Trichlorobenzene | 45.8 | 40.0 | ug/Kg wet | 40.0 | | 115 | 67-129 | 7 | 20 | | 1 |
| 1,2,4-Trimethylbenzene | 41.8 | 8.00 | ug/Kg wet | 40.0 | | 104 | 75-123 | 4 | 20 | | 1 |
| 1,2-Dibromo-3-chloropropane | 38.4 | 8.00 | ug/Kg wet | 40.0 | | 96 | 61-132 | 8 | 20 | | 1 |
| 1,2-Dibromoethane | 38.6 | 2.00 | ug/Kg wet | 40.0 | | 97 | 78-122 | 4 | 20 | | 1 |
| 1,2-Dichlorobenzene | 41.4 | 10.0 | ug/Kg wet | 40.0 | | 103 | 78-121 | 2 | 20 | | 1 |
| 1,2-Dichloroethane | 35.8 | 2.00 | ug/Kg wet | 40.0 | | 89 | 73-128 | 1 | 20 | | 1 |
| 1,2-Dichloropropane | 41.5 | 2.00 | ug/Kg wet | 40.0 | | 104 | 76-123 | 4 | 20 | | 1 |
| 1,3,5-Trimethylbenzene | 41.4 | 4.00 | ug/Kg wet | 40.0 | | 104 | 73-124 | 4 | 20 | | 1 |
| 1,3-Dichlorobenzene | 42.5 | 4.00 | ug/Kg wet | 40.0 | | 106 | 77-121 | 6 | 20 | | 1 |
| 1,3-Dichloropropane | 42.3 | 2.00 | ug/Kg wet | 40.0 | | 106 | 77-121 | 2 | 20 | | 1 |
| 1,4-Dioxane | 435 | 80.0 | ug/Kg wet | 400 | | 109 | 55-138 | 4 | 20 | | 1 |
| 1,4-Dichlorobenzene | 43.0 | 10.0 | ug/Kg wet | 40.0 | | 108 | 75-120 | 4 | 20 | | 1 |
| 1-Propanol | 446 | 200 | ug/Kg wet | 400 | | 111 | 70-130 | 23 | 20 | P, S | 1 |
| 2,2-Dichloropropane | 41.1 | 2.00 | ug/Kg wet | 40.0 | | 103 | 67-133 | 2 | 20 | | 1 |
| 2-Butanone | 136 | 28.0 | ug/Kg wet | 140 | | 97 | 51-148 | 4 | 20 | | 1 |
| 2-Chloroethyl vinyl ether | 35.3 | 100 | ug/Kg wet | 40.0 | | 88 | 43-149 | 1 | 20 | J | 1 |
| 2-Chlorotoluene | 42.6 | 4.00 | ug/Kg wet | 40.0 | | 106 | 75-122 | 2 | 20 | | 1 |
| 2-Hexanone | 134 | 28.0 | ug/Kg wet | 140 | | 96 | 53-145 | 0.3 | 20 | | 1 |
| 4-Chlorotoluene | 41.2 | 4.00 | ug/Kg wet | 40.0 | | 103 | 72-124 | 5 | 20 | | 1 |
| 4-Isopropyltoluene | 45.7 | 8.00 | ug/Kg wet | 40.0 | | 114 | 73-127 | 5 | 20 | | 1 |
| 4-Methyl-2-pentanone | 130 | 28.0 | ug/Kg wet | 140 | | 93 | 65-135 | 0.3 | 20 | | 1 |
| Acetone | 158 | 70.0 | ug/Kg wet | 140 | | 113 | 36-164 | 2 | 20 | | 1 |
| Acetonitrile | 102 | 200 | ug/Kg wet | 100 | | 102 | 54-143 | 3 | 20 | J | 1 |
| Acrolein | 101 | 40.0 | ug/Kg wet | 100 | | 101 | 47-155 | 1 | 20 | | 1 |
| Acrylonitrile | 41.4 | 4.00 | ug/Kg wet | 40.0 | | 103 | 65-134 | 11 | 20 | | 1 |
| Benzene | 40.6 | 2.00 | ug/Kg wet | 40.0 | | 102 | 77-121 | 0.3 | 20 | | 1 |
| Bromobenzene | 41.7 | 4.00 | ug/Kg wet | 40.0 | | 104 | 78-121 | 0.1 | 20 | | 1 |
| Bromochloromethane | 39.1 | 4.00 | ug/Kg wet | 40.0 | | 98 | 78-125 | 1 | 20 | | 1 |
| Bromodichloromethane | 36.1 | 2.00 | ug/Kg wet | 40.0 | | 90 | 75-127 | 3 | 20 | | 1 |
| Bromoform | 35.3 | 4.00 | ug/Kg wet | 40.0 | | 88 | 67-132 | 5 | 20 | | 1 |
| Bromomethane | 44.9 | 20.0 | ug/Kg wet | 40.0 | | 112 | 53-143 | 4 | 20 | | 1 |
| Carbon disulfide | 35.4 | 4.00 | ug/Kg wet | 40.0 | | 88 | 63-132 | 2 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0625 - SW5035*** *(Continued)*

**(B24J0625-BSD1), LCS Dup** (Continued) *Prepared: 10/09/2024 08:14 Analyzed: 10/09/2024 11:21*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 36.6 | 20.0 | ug/Kg wet | 40.0 | | 91 | 70-135 | 0.7 | 20 | | 1 |
| Chlorobenzene | 41.0 | 4.00 | ug/Kg wet | 40.0 | | 103 | 79-120 | 5 | 20 | | 1 |
| Chloroethane | 34.4 | 8.00 | ug/Kg wet | 40.0 | | 86 | 59-139 | 0.1 | 20 | | 1 |
| Chloroform | 38.6 | 4.00 | ug/Kg wet | 40.0 | | 96 | 78-123 | 1 | 20 | | 1 |
| Chloromethane | 38.3 | 8.00 | ug/Kg wet | 40.0 | | 96 | 50-136 | 3 | 20 | | 1 |
| cis-1,2-Dichloroethene | 42.4 | 4.00 | ug/Kg wet | 40.0 | | 106 | 77-123 | 0.7 | 20 | | 1 |
| cis-1,3-Dichloropropene | 38.5 | 4.00 | ug/Kg wet | 40.0 | | 96 | 74-126 | 0.2 | 20 | | 1 |
| Cyclohexane | 40.2 | 10.0 | ug/Kg wet | 40.0 | | 100 | 67-131 | 1 | 20 | | 1 |
| Dibromochloromethane | 38.4 | 2.00 | ug/Kg wet | 40.0 | | 96 | 74-126 | 1 | 20 | | 1 |
| Dibromomethane | 39.2 | 2.00 | ug/Kg wet | 40.0 | | 98 | 78-125 | 2 | 20 | | 1 |
| Dichlorodifluoromethane | 34.6 | 10.0 | ug/Kg wet | 40.0 | | 86 | 29-149 | 5 | 20 | | 1 |
| Ethylbenzene | 41.6 | 8.00 | ug/Kg wet | 40.0 | | 104 | 76-122 | 1 | 20 | | 1 |
| Isobutanol | 378 | 80.0 | ug/Kg wet | 400 | | 94 | 60-135 | 4 | 20 | | 1 |
| Isopropanol | 372 | 80.0 | ug/Kg wet | 400 | | 93 | 60-140 | 6 | 20 | | 1 |
| Isopropylbenzene | 43.0 | 4.00 | ug/Kg wet | 40.0 | | 108 | 68-134 | 2 | 20 | | 1 |
| m,p-Xylene | 82.6 | 8.00 | ug/Kg wet | 80.0 | | 103 | 77-124 | 0.7 | 20 | | 1 |
| Methyl tert-butyl ether | 41.3 | 2.00 | ug/Kg wet | 40.0 | | 103 | 73-125 | 0.05 | 20 | | 1 |
| Methylene chloride | 36.4 | 20.0 | ug/Kg wet | 40.0 | | 91 | 70-128 | 2 | 20 | | 1 |
| n-Butylbenzene | 48.5 | 20.0 | ug/Kg wet | 40.0 | | 121 | 70-128 | 4 | 20 | | 1 |
| n-Propylbenzene | 41.9 | 4.00 | ug/Kg wet | 40.0 | | 105 | 73-125 | 2 | 20 | | 1 |
| Naphthalene | 49.0 | 40.0 | ug/Kg wet | 40.0 | | 123 | 62-129 | 2 | 20 | | 1 |
| o-Xylene | 42.1 | 8.00 | ug/Kg wet | 40.0 | | 105 | 77-123 | 2 | 20 | | 1 |
| sec-Butylbenzene | 45.6 | 4.00 | ug/Kg wet | 40.0 | | 114 | 73-126 | 4 | 20 | | 1 |
| Styrene | 41.9 | 8.00 | ug/Kg wet | 40.0 | | 105 | 76-124 | 0.4 | 20 | | 1 |
| tert-Butylbenzene | 41.9 | 4.00 | ug/Kg wet | 40.0 | | 105 | 73-125 | 2 | 20 | | 1 |
| Tetrachloroethene | 39.5 | 4.00 | ug/Kg wet | 40.0 | | 99 | 73-128 | 4 | 20 | | 1 |
| Tetrahydrofuran | 39.8 | 10.0 | ug/Kg wet | 40.0 | | 100 | 61-135 | 1 | 20 | | 1 |
| Toluene | 41.4 | 2.00 | ug/Kg wet | 40.0 | | 103 | 77-121 | 0.4 | 20 | | 1 |
| trans-1,2-Dichloroethene | 42.8 | 4.00 | ug/Kg wet | 40.0 | | 107 | 74-125 | 1 | 20 | | 1 |
| trans-1,3-Dichloropropene | 36.6 | 4.00 | ug/Kg wet | 40.0 | | 91 | 71-130 | 1 | 20 | | 1 |
| Trichloroethene | 40.6 | 2.00 | ug/Kg wet | 40.0 | | 102 | 77-123 | 0.07 | 20 | | 1 |
| Trichlorofluoromethane | 36.8 | 2.00 | ug/Kg wet | 40.0 | | 92 | 62-140 | 2 | 20 | | 1 |
| Vinyl acetate | 45.6 | 4.00 | ug/Kg wet | 40.0 | | 114 | 50-151 | 2 | 20 | | 1 |
| Vinyl chloride | 36.9 | 4.00 | ug/Kg wet | 40.0 | | 92 | 56-135 | 2 | 20 | | 1 |
| Xylenes, Total | 125 | 12.0 | ug/Kg wet | 120 | | 104 | 78-124 | 1 | 20 | | 1 |
| 1,2-Dichloroethene, Total | 85.3 | 8.00 | ug/Kg wet | 80.0 | | 107 | 78-122 | 1 | 20 | | 1 |
| 1,3-Dichloropropene, Total | 75.1 | 4.00 | ug/Kg wet | 80.0 | | 94 | 77-126 | 0.6 | 20 | | 1 |
| *Surrogate: Dibromofluoromethane* | *18.6* | | *ug/Kg* | *20.0* | | *93* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *17.9* | | *ug/Kg* | *20.0* | | *90* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *20.3* | | *ug/Kg* | *20.0* | | *102* | *81-114* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0625 - SW5035*** *(Continued)* | | | | | | | | | | | |
| **(B24J0625-BSD1), LCS Dup** (Continued) | | | | *Prepared: 10/09/2024 08:14* | | | *Analyzed: 10/09/2024 11:21* | | | | |
| *Surrogate: Toluene-d8* | *20.4* | | *ug/Kg* | *20.0* | | *102* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *9.29* | | *ug/Kg* | *10.0* | | *93* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *19.9* | | *ug/Kg* | *20.0* | | *100* | *78-121* | | | | 1 |
| **(B24J0625-MS1), Matrix Spike** | | **Source: O24J0343-07** | | *Prepared: 10/09/2024 08:14* | | | *Analyzed: 10/09/2024 18:36* | | | | |
| 1,1,1,2-Tetrachloroethane | 32.5 | 1.88 | ug/Kg dry | 37.5 | ND | 87 | 78-125 | | | | 1 |
| 1,1,1-Trichloroethane | 28.4 | 1.88 | ug/Kg dry | 37.5 | ND | 76 | 73-130 | | | | 1 |
| 1,1,2,2-Tetrachloroethane | 38.3 | 1.88 | ug/Kg dry | 37.5 | ND | 102 | 70-124 | | | | 1 |
| 1,1,2-Trichloroethane | 34.4 | 1.88 | ug/Kg dry | 37.5 | ND | 92 | 78-121 | | | | 1 |
| 1,1-Dichloroethane | 28.7 | 3.75 | ug/Kg dry | 37.5 | ND | 77 | 76-125 | | | | 1 |
| 1,1-Dichloroethene | 31.7 | 1.88 | ug/Kg dry | 37.5 | ND | 84 | 70-131 | | | | 1 |
| 1,1-Dichloropropene | 30.2 | 18.8 | ug/Kg dry | 37.5 | ND | 81 | 76-125 | | | | 1 |
| 1,2,3-Trichlorobenzene | 34.4 | 37.5 | ug/Kg dry | 37.5 | ND | 92 | 66-130 | | | J | 1 |
| 1,2,3-Trichloropropane | 41.1 | 18.8 | ug/Kg dry | 37.5 | ND | 110 | 73-125 | | | | 1 |
| 1,2,4-Trichlorobenzene | 28.2 | 37.5 | ug/Kg dry | 37.5 | ND | 75 | 67-129 | | | J | 1 |
| 1,2,4-Trimethylbenzene | 29.4 | 7.50 | ug/Kg dry | 37.5 | ND | 78 | 75-123 | | | | 1 |
| 1,2-Dibromo-3-chloropropane | 45.9 | 7.50 | ug/Kg dry | 37.5 | ND | 122 | 61-132 | | | | 1 |
| 1,2-Dibromoethane | 35.2 | 1.88 | ug/Kg dry | 37.5 | ND | 94 | 78-122 | | | | 1 |
| 1,2-Dichlorobenzene | 30.4 | 9.38 | ug/Kg dry | 37.5 | ND | 81 | 78-121 | | | | 1 |
| 1,2-Dichloroethane | 27.6 | 1.88 | ug/Kg dry | 37.5 | ND | 74 | 73-128 | | | | 1 |
| 1,2-Dichloropropane | 33.7 | 1.88 | ug/Kg dry | 37.5 | ND | 90 | 76-123 | | | | 1 |
| 1,3,5-Trimethylbenzene | 29.2 | 3.75 | ug/Kg dry | 37.5 | ND | 78 | 73-124 | | | | 1 |
| 1,3-Dichlorobenzene | 29.7 | 3.75 | ug/Kg dry | 37.5 | ND | 79 | 77-121 | | | | 1 |
| 1,3-Dichloropropane | 37.4 | 1.88 | ug/Kg dry | 37.5 | ND | 100 | 77-121 | | | | 1 |
| 1,4-Dioxane | 517 | 75.0 | ug/Kg dry | 375 | ND | 138 | 55-138 | | | | 1 |
| 1,4-Dichlorobenzene | 29.7 | 9.38 | ug/Kg dry | 37.5 | ND | 79 | 75-120 | | | | 1 |
| 1-Propanol | 518 | 188 | ug/Kg dry | 375 | ND | 138 | 70-130 | | | S | 1 |
| 2,2-Dichloropropane | 29.8 | 1.88 | ug/Kg dry | 37.5 | ND | 79 | 67-133 | | | | 1 |
| 2-Butanone | 151 | 26.3 | ug/Kg dry | 131 | ND | 115 | 51-148 | | | | 1 |
| 2-Chloroethyl vinyl ether | <46.9 | 93.8 | ug/Kg dry | 37.5 | ND | 0 | 43-149 | | | S, U | 1 |
| 2-Chlorotoluene | 30.5 | 3.75 | ug/Kg dry | 37.5 | ND | 81 | 75-122 | | | | 1 |
| 2-Hexanone | 147 | 26.3 | ug/Kg dry | 131 | ND | 112 | 53-145 | | | | 1 |
| 4-Chlorotoluene | 28.4 | 3.75 | ug/Kg dry | 37.5 | ND | 76 | 72-124 | | | | 1 |
| 4-Isopropyltoluene | 31.2 | 7.50 | ug/Kg dry | 37.5 | ND | 83 | 73-127 | | | | 1 |
| 4-Methyl-2-pentanone | 146 | 26.3 | ug/Kg dry | 131 | ND | 111 | 65-135 | | | | 1 |
| Acetone | 128 | 65.6 | ug/Kg dry | 131 | ND | 97 | 36-164 | | | | 1 |
| Acetonitrile | 79.8 | 188 | ug/Kg dry | 93.8 | ND | 85 | 54-143 | | | J | 1 |
| Acrolein | 64.6 | 37.5 | ug/Kg dry | 93.8 | ND | 69 | 47-155 | | | | 1 |
| Acrylonitrile | 40.8 | 3.75 | ug/Kg dry | 37.5 | ND | 109 | 65-134 | | | | 1 |
| Benzene | 32.4 | 1.88 | ug/Kg dry | 37.5 | 0.375 | 85 | 77-121 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0625 - SW5035*** *(Continued)*

**(B24J0625-MS1), Matrix Spike** (Continued) **Source: O24J0343-07** *Prepared: 10/09/2024 08:14 Analyzed: 10/09/2024 18:36*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 30.9 | 3.75 | ug/Kg dry | 37.5 | ND | 82 | 78-121 | | | | 1 |
| Bromochloromethane | 32.8 | 3.75 | ug/Kg dry | 37.5 | ND | 87 | 78-125 | | | | 1 |
| Bromodichloromethane | 27.6 | 1.88 | ug/Kg dry | 37.5 | ND | 74 | 75-127 | | | S | 1 |
| Bromoform | 33.7 | 3.75 | ug/Kg dry | 37.5 | ND | 90 | 67-132 | | | | 1 |
| Bromomethane | 36.0 | 18.8 | ug/Kg dry | 37.5 | ND | 96 | 53-143 | | | | 1 |
| Carbon disulfide | 26.2 | 3.75 | ug/Kg dry | 37.5 | ND | 70 | 63-132 | | | | 1 |
| Carbon tetrachloride | 27.4 | 18.8 | ug/Kg dry | 37.5 | ND | 73 | 70-135 | | | | 1 |
| Chlorobenzene | 32.1 | 3.75 | ug/Kg dry | 37.5 | ND | 86 | 79-120 | | | | 1 |
| Chloroethane | 29.9 | 7.50 | ug/Kg dry | 37.5 | ND | 80 | 59-139 | | | | 1 |
| Chloroform | 30.2 | 3.75 | ug/Kg dry | 37.5 | ND | 80 | 78-123 | | | | 1 |
| Chloromethane | 32.0 | 7.50 | ug/Kg dry | 37.5 | ND | 85 | 50-136 | | | | 1 |
| cis-1,2-Dichloroethene | 36.5 | 3.75 | ug/Kg dry | 37.5 | 4.55 | 85 | 77-123 | | | | 1 |
| cis-1,3-Dichloropropene | 29.8 | 3.75 | ug/Kg dry | 37.5 | ND | 79 | 74-126 | | | | 1 |
| Cyclohexane | 31.0 | 9.38 | ug/Kg dry | 37.5 | ND | 83 | 67-131 | | | | 1 |
| Dibromochloromethane | 32.2 | 1.88 | ug/Kg dry | 37.5 | ND | 86 | 74-126 | | | | 1 |
| Dibromomethane | 33.6 | 1.88 | ug/Kg dry | 37.5 | ND | 89 | 78-125 | | | | 1 |
| Dichlorodifluoromethane | 27.1 | 9.38 | ug/Kg dry | 37.5 | ND | 72 | 29-149 | | | | 1 |
| Ethylbenzene | 31.5 | 7.50 | ug/Kg dry | 37.5 | ND | 84 | 76-122 | | | | 1 |
| Isobutanol | 468 | 75.0 | ug/Kg dry | 375 | ND | 125 | 60-135 | | | | 1 |
| Isopropanol | 445 | 75.0 | ug/Kg dry | 375 | ND | 119 | 60-140 | | | | 1 |
| Isopropylbenzene | 32.0 | 3.75 | ug/Kg dry | 37.5 | ND | 85 | 68-134 | | | | 1 |
| m,p-Xylene | 60.1 | 7.50 | ug/Kg dry | 75.0 | ND | 80 | 77-124 | | | | 1 |
| Methyl tert-butyl ether | 36.2 | 1.88 | ug/Kg dry | 37.5 | ND | 96 | 73-125 | | | | 1 |
| Methylene chloride | 26.9 | 18.8 | ug/Kg dry | 37.5 | ND | 72 | 70-128 | | | | 1 |
| n-Butylbenzene | 30.7 | 18.8 | ug/Kg dry | 37.5 | ND | 82 | 70-128 | | | | 1 |
| n-Propylbenzene | 30.1 | 3.75 | ug/Kg dry | 37.5 | ND | 80 | 73-125 | | | | 1 |
| Naphthalene | 44.4 | 37.5 | ug/Kg dry | 37.5 | ND | 118 | 62-129 | | | | 1 |
| o-Xylene | 32.1 | 7.50 | ug/Kg dry | 37.5 | ND | 86 | 77-123 | | | | 1 |
| sec-Butylbenzene | 32.0 | 3.75 | ug/Kg dry | 37.5 | ND | 85 | 73-126 | | | | 1 |
| Styrene | 30.7 | 7.50 | ug/Kg dry | 37.5 | ND | 82 | 76-124 | | | | 1 |
| tert-Butylbenzene | 30.8 | 3.75 | ug/Kg dry | 37.5 | 0.375 | 81 | 73-125 | | | | 1 |
| Tetrachloroethene | 30.7 | 3.75 | ug/Kg dry | 37.5 | ND | 82 | 73-128 | | | | 1 |
| Tetrahydrofuran | 42.7 | 9.38 | ug/Kg dry | 37.5 | ND | 114 | 61-135 | | | | 1 |
| Toluene | 34.0 | 1.88 | ug/Kg dry | 37.5 | ND | 91 | 77-121 | | | | 1 |
| trans-1,2-Dichloroethene | 32.5 | 3.75 | ug/Kg dry | 37.5 | ND | 87 | 74-125 | | | | 1 |
| trans-1,3-Dichloropropene | 28.4 | 3.75 | ug/Kg dry | 37.5 | ND | 76 | 71-130 | | | | 1 |
| Trichloroethene | 31.0 | 1.88 | ug/Kg dry | 37.5 | ND | 83 | 77-123 | | | | 1 |
| Trichlorofluoromethane | 27.6 | 1.88 | ug/Kg dry | 37.5 | ND | 74 | 62-140 | | | | 1 |
| Vinyl acetate | 32.6 | 3.75 | ug/Kg dry | 37.5 | ND | 87 | 50-151 | | | | 1 |
| Vinyl chloride | 34.7 | 3.75 | ug/Kg dry | 37.5 | 5.49 | 78 | 56-135 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0625 - SW5035*** *(Continued)*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **(B24J0625-MS1), Matrix Spike** (Continued) | | | | **Source: O24J0343-07** | | *Prepared: 10/09/2024 08:14* | *Analyzed: 10/09/2024 18:36* | | | | |
| Xylenes, Total | 92.2 | 11.3 | ug/Kg dry | 113 | ND | 82 | 78-124 | | | | 1 |
| 1,2-Dichloroethene, Total | 69.0 | 7.50 | ug/Kg dry | 75.0 | 4.55 | 86 | 78-122 | | | | 1 |
| 1,3-Dichloropropene, Total | 58.2 | 3.75 | ug/Kg dry | 75.0 | ND | 78 | 77-126 | | | | 1 |
| *Surrogate: Dibromofluoromethane* | *19.2* | | *ug/Kg* | *20.0* | | *96* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *17.7* | | *ug/Kg* | *20.0* | | *88* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *20.0* | | *ug/Kg* | *20.0* | | *100* | *81-114* | | | | 1 |
| *Surrogate: Toluene-d8* | *20.5* | | *ug/Kg* | *20.0* | | *102* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *9.69* | | *ug/Kg* | *10.0* | | *97* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *20.2* | | *ug/Kg* | *20.0* | | *101* | *78-121* | | | | 1 |
| **(B24J0625-MSD1), Matrix Spike Dup** | | | | **Source: O24J0343-07** | | *Prepared: 10/09/2024 08:14* | *Analyzed: 10/09/2024 19:05* | | | | |
| 1,1,1,2-Tetrachloroethane | 37.5 | 2.17 | ug/Kg dry | 43.5 | ND | 86 | 78-125 | 14 | 20 | | 1 |
| 1,1,1-Trichloroethane | 30.8 | 2.17 | ug/Kg dry | 43.5 | ND | 71 | 73-130 | 8 | 20 | S | 1 |
| 1,1,2,2-Tetrachloroethane | 42.5 | 2.17 | ug/Kg dry | 43.5 | ND | 98 | 70-124 | 11 | 20 | | 1 |
| 1,1,2-Trichloroethane | 39.9 | 2.17 | ug/Kg dry | 43.5 | ND | 92 | 78-121 | 15 | 20 | | 1 |
| 1,1-Dichloroethane | 32.1 | 4.35 | ug/Kg dry | 43.5 | ND | 74 | 76-125 | 11 | 20 | S | 1 |
| 1,1-Dichloroethene | 33.3 | 2.17 | ug/Kg dry | 43.5 | ND | 77 | 70-131 | 5 | 20 | | 1 |
| 1,1-Dichloropropene | 34.2 | 21.7 | ug/Kg dry | 43.5 | ND | 79 | 76-125 | 12 | 20 | | 1 |
| 1,2,3-Trichlorobenzene | 40.7 | 43.5 | ug/Kg dry | 43.5 | ND | 94 | 66-130 | 17 | 20 | J | 1 |
| 1,2,3-Trichloropropane | 44.2 | 21.7 | ug/Kg dry | 43.5 | ND | 102 | 73-125 | 7 | 20 | | 1 |
| 1,2,4-Trichlorobenzene | 34.5 | 43.5 | ug/Kg dry | 43.5 | ND | 79 | 67-129 | 20 | 20 | J | 1 |
| 1,2,4-Trimethylbenzene | 36.2 | 8.70 | ug/Kg dry | 43.5 | ND | 83 | 75-123 | 21 | 20 | P | 1 |
| 1,2-Dibromo-3-chloropropane | 48.5 | 8.70 | ug/Kg dry | 43.5 | ND | 112 | 61-132 | 5 | 20 | | 1 |
| 1,2-Dibromoethane | 38.5 | 2.17 | ug/Kg dry | 43.5 | ND | 89 | 78-122 | 9 | 20 | | 1 |
| 1,2-Dichlorobenzene | 36.4 | 10.9 | ug/Kg dry | 43.5 | ND | 84 | 78-121 | 18 | 20 | | 1 |
| 1,2-Dichloroethane | 29.6 | 2.17 | ug/Kg dry | 43.5 | ND | 68 | 73-128 | 7 | 20 | S | 1 |
| 1,2-Dichloropropane | 37.9 | 2.17 | ug/Kg dry | 43.5 | ND | 87 | 76-123 | 12 | 20 | | 1 |
| 1,3,5-Trimethylbenzene | 35.6 | 4.35 | ug/Kg dry | 43.5 | ND | 82 | 73-124 | 20 | 20 | | 1 |
| 1,3-Dichlorobenzene | 35.5 | 4.35 | ug/Kg dry | 43.5 | ND | 82 | 77-121 | 18 | 20 | | 1 |
| 1,3-Dichloropropane | 40.1 | 2.17 | ug/Kg dry | 43.5 | ND | 92 | 77-121 | 7 | 20 | | 1 |
| 1,4-Dioxane | 607 | 87.0 | ug/Kg dry | 435 | ND | 140 | 55-138 | 16 | 20 | S | 1 |
| 1,4-Dichlorobenzene | 36.5 | 10.9 | ug/Kg dry | 43.5 | ND | 84 | 75-120 | 20 | 20 | | 1 |
| 1-Propanol | 597 | 217 | ug/Kg dry | 435 | ND | 137 | 70-130 | 14 | 20 | S | 1 |
| 2,2-Dichloropropane | 33.0 | 2.17 | ug/Kg dry | 43.5 | ND | 76 | 67-133 | 10 | 20 | | 1 |
| 2-Butanone | 160 | 30.4 | ug/Kg dry | 152 | ND | 105 | 51-148 | 6 | 20 | | 1 |
| 2-Chloroethyl vinyl ether | <54.4 | 109 | ug/Kg dry | 43.5 | ND | 0 | 43-149 | | 20 | S, U | 1 |
| 2-Chlorotoluene | 36.4 | 4.35 | ug/Kg dry | 43.5 | ND | 84 | 75-122 | 17 | 20 | | 1 |
| 2-Hexanone | 149 | 30.4 | ug/Kg dry | 152 | ND | 98 | 53-145 | 2 | 20 | | 1 |
| 4-Chlorotoluene | 34.9 | 4.35 | ug/Kg dry | 43.5 | ND | 80 | 72-124 | 20 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0625 - SW5035*** *(Continued)*

**(B24J0625-MSD1), Matrix Spike Dup** (Continue **Source: O24J0343-07** *Prepared: 10/09/2024 08:14 Analyzed: 10/09/2024 19:05*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Isopropyltoluene | 39.1 | 8.70 | ug/Kg dry | 43.5 | ND | 90 | 73-127 | 22 | 20 | P | 1 |
| 4-Methyl-2-pentanone | 157 | 30.4 | ug/Kg dry | 152 | ND | 103 | 65-135 | 7 | 20 | | 1 |
| Acetone | 141 | 76.1 | ug/Kg dry | 152 | ND | 92 | 36-164 | 9 | 20 | | 1 |
| Acetonitrile | 89.3 | 217 | ug/Kg dry | 109 | ND | 82 | 54-143 | 11 | 20 | J | 1 |
| Acrolein | 68.0 | 43.5 | ug/Kg dry | 109 | ND | 63 | 47-155 | 5 | 20 | | 1 |
| Acrylonitrile | 43.5 | 4.35 | ug/Kg dry | 43.5 | ND | 100 | 65-134 | 6 | 20 | | 1 |
| Benzene | 35.6 | 2.17 | ug/Kg dry | 43.5 | 0.375 | 81 | 77-121 | 9 | 20 | | 1 |
| Bromobenzene | 36.6 | 4.35 | ug/Kg dry | 43.5 | ND | 84 | 78-121 | 17 | 20 | | 1 |
| Bromochloromethane | 36.6 | 4.35 | ug/Kg dry | 43.5 | ND | 84 | 78-125 | 11 | 20 | | 1 |
| Bromodichloromethane | 31.1 | 2.17 | ug/Kg dry | 43.5 | ND | 72 | 75-127 | 12 | 20 | S | 1 |
| Bromoform | 37.2 | 4.35 | ug/Kg dry | 43.5 | ND | 85 | 67-132 | 10 | 20 | | 1 |
| Bromomethane | 38.5 | 21.7 | ug/Kg dry | 43.5 | ND | 88 | 53-143 | 7 | 20 | | 1 |
| Carbon disulfide | 29.5 | 4.35 | ug/Kg dry | 43.5 | ND | 68 | 63-132 | 12 | 20 | | 1 |
| Carbon tetrachloride | 30.4 | 21.7 | ug/Kg dry | 43.5 | ND | 70 | 70-135 | 11 | 20 | | 1 |
| Chlorobenzene | 36.2 | 4.35 | ug/Kg dry | 43.5 | ND | 83 | 79-120 | 12 | 20 | | 1 |
| Chloroethane | 32.3 | 8.70 | ug/Kg dry | 43.5 | ND | 74 | 59-139 | 7 | 20 | | 1 |
| Chloroform | 33.3 | 4.35 | ug/Kg dry | 43.5 | ND | 76 | 78-123 | 10 | 20 | S | 1 |
| Chloromethane | 34.2 | 8.70 | ug/Kg dry | 43.5 | ND | 79 | 50-136 | 6 | 20 | | 1 |
| cis-1,2-Dichloroethene | 42.8 | 4.35 | ug/Kg dry | 43.5 | 4.55 | 88 | 77-123 | 16 | 20 | | 1 |
| cis-1,3-Dichloropropene | 33.9 | 4.35 | ug/Kg dry | 43.5 | ND | 78 | 74-126 | 13 | 20 | | 1 |
| Cyclohexane | 34.8 | 10.9 | ug/Kg dry | 43.5 | ND | 80 | 67-131 | 11 | 20 | | 1 |
| Dibromochloromethane | 35.0 | 2.17 | ug/Kg dry | 43.5 | ND | 81 | 74-126 | 8 | 20 | | 1 |
| Dibromomethane | 38.0 | 2.17 | ug/Kg dry | 43.5 | ND | 87 | 78-125 | 12 | 20 | | 1 |
| Dichlorodifluoromethane | 29.7 | 10.9 | ug/Kg dry | 43.5 | ND | 68 | 29-149 | 9 | 20 | | 1 |
| Ethylbenzene | 36.1 | 8.70 | ug/Kg dry | 43.5 | ND | 83 | 76-122 | 13 | 20 | | 1 |
| Isobutanol | 537 | 87.0 | ug/Kg dry | 435 | ND | 123 | 60-135 | 14 | 20 | | 1 |
| Isopropanol | 523 | 87.0 | ug/Kg dry | 435 | ND | 120 | 60-140 | 16 | 20 | | 1 |
| Isopropylbenzene | 36.7 | 4.35 | ug/Kg dry | 43.5 | ND | 84 | 68-134 | 14 | 20 | | 1 |
| m,p-Xylene | 69.6 | 8.70 | ug/Kg dry | 87.0 | ND | 80 | 77-124 | 15 | 20 | | 1 |
| Methyl tert-butyl ether | 39.8 | 2.17 | ug/Kg dry | 43.5 | ND | 91 | 73-125 | 9 | 20 | | 1 |
| Methylene chloride | 29.6 | 21.7 | ug/Kg dry | 43.5 | ND | 68 | 70-128 | 10 | 20 | S | 1 |
| n-Butylbenzene | 38.5 | 21.7 | ug/Kg dry | 43.5 | ND | 88 | 70-128 | 22 | 20 | P | 1 |
| n-Propylbenzene | 35.9 | 4.35 | ug/Kg dry | 43.5 | ND | 82 | 73-125 | 17 | 20 | | 1 |
| Naphthalene | 50.7 | 43.5 | ug/Kg dry | 43.5 | ND | 117 | 62-129 | 13 | 20 | | 1 |
| o-Xylene | 36.3 | 8.70 | ug/Kg dry | 43.5 | ND | 83 | 77-123 | 12 | 20 | | 1 |
| sec-Butylbenzene | 38.8 | 4.35 | ug/Kg dry | 43.5 | ND | 89 | 73-126 | 19 | 20 | | 1 |
| Styrene | 36.2 | 8.70 | ug/Kg dry | 43.5 | ND | 83 | 76-124 | 17 | 20 | | 1 |
| tert-Butylbenzene | 36.1 | 4.35 | ug/Kg dry | 43.5 | ND | 83 | 73-125 | 16 | 20 | | 1 |
| Tetrachloroethene | 35.0 | 4.35 | ug/Kg dry | 43.5 | ND | 80 | 73-128 | 13 | 20 | | 1 |
| Tetrahydrofuran | 46.6 | 10.9 | ug/Kg dry | 43.5 | ND | 107 | 61-135 | 9 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0625 - SW5035*** *(Continued)* | | | | | | | | | | | |
| **(B24J0625-MSD1), Matrix Spike Dup** (Continue | | | **Source: O24J0343-07** | *Prepared: 10/09/2024 08:14* | | *Analyzed: 10/09/2024 19:05* | | | | | |
| Toluene | 36.4 | 2.17 | ug/Kg dry | 43.5 | ND | 84 | 77-121 | 7 | 20 | | 1 |
| trans-1,2-Dichloroethene | 37.1 | 4.35 | ug/Kg dry | 43.5 | ND | 85 | 74-125 | 13 | 20 | | 1 |
| trans-1,3-Dichloropropene | 32.9 | 4.35 | ug/Kg dry | 43.5 | ND | 76 | 71-130 | 14 | 20 | | 1 |
| Trichloroethene | 35.2 | 2.17 | ug/Kg dry | 43.5 | ND | 81 | 77-123 | 13 | 20 | | 1 |
| Trichlorofluoromethane | 30.9 | 2.17 | ug/Kg dry | 43.5 | ND | 71 | 62-140 | 11 | 20 | | 1 |
| Vinyl acetate | 33.1 | 4.35 | ug/Kg dry | 43.5 | ND | 76 | 50-151 | 2 | 20 | | 1 |
| Vinyl chloride | 39.4 | 4.35 | ug/Kg dry | 43.5 | 5.49 | 78 | 56-135 | 13 | 20 | | 1 |
| Xylenes, Total | 106 | 13.0 | ug/Kg dry | 130 | ND | 81 | 78-124 | 14 | 20 | | 1 |
| 1,2-Dichloroethene, Total | 80.0 | 8.70 | ug/Kg dry | 87.0 | 4.55 | 87 | 78-122 | 15 | 20 | | 1 |
| 1,3-Dichloropropene, Total | 66.8 | 4.35 | ug/Kg dry | 87.0 | ND | 77 | 77-126 | 14 | 20 | | 1 |
| *Surrogate: Dibromofluoromethane* | *18.4* | | *ug/Kg* | *20.0* | | *92* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *18.3* | | *ug/Kg* | *20.0* | | *91* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *20.0* | | *ug/Kg* | *20.0* | | *100* | *81-114* | | | | 1 |
| *Surrogate: Toluene-d8* | *19.8* | | *ug/Kg* | *20.0* | | *99* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *10.1* | | *ug/Kg* | *10.0* | | *101* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *20.9* | | *ug/Kg* | *20.0* | | *105* | *78-121* | | | | 1 |
| ***Batch: B24J0919 - SW5035*** | | | | | | | | | | | |
| **(B24J0919-BLK1), Blank** | | | | *Prepared: 10/15/2024 07:39* | | *Analyzed: 10/15/2024 09:30* | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 1,1,1-Trichloroethane | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 1,1,2,2-Tetrachloroethane | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| 1,1,2-Trichloroethane | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| 1,1-Dichloroethane | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 1,1-Dichloroethene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 1,1-Dichloropropene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,3-Trichlorobenzene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,3-Trichloropropane | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,4-Trichlorobenzene | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| 1,2,4-Trimethylbenzene | <8.00 | 16.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dibromo-3-chloropropane | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dibromoethane | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichlorobenzene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichloroethane | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichloropropane | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 1,3,5-Trimethylbenzene | <8.00 | 16.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,3-Dichlorobenzene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 1,3-Dichloropropane | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0919 - SW5035*** *(Continued)*

**(B24J0919-BLK1), Blank** (Continued) *Prepared: 10/15/2024 07:39 Analyzed: 10/15/2024 09:30*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| 1,4-Dichlorobenzene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 1-Propanol | <10.0 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 2,2-Dichloropropane | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| 2-Butanone | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 2-Chloroethyl vinyl ether | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| 2-Chlorotoluene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 2-Hexanone | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| 4-Chlorotoluene | <0.500 | 1.00 | ug/Kg wet | | | | | | | U | 1 |
| 4-Isopropyltoluene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| 4-Methyl-2-pentanone | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Acetone | <15.0 | 30.0 | ug/Kg wet | | | | | | | U | 1 |
| Acetonitrile | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| Acrolein | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Acrylonitrile | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| Benzene | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Bromobenzene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| Bromochloromethane | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| Bromodichloromethane | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| Bromoform | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| Bromomethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Carbon disulfide | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| Carbon tetrachloride | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| Chlorobenzene | <0.100 | 0.200 | ug/Kg wet | | | | | | | U | 1 |
| Chloroethane | <0.500 | 1.00 | ug/Kg wet | | | | | | | U | 1 |
| Chloroform | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| Chloromethane | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| cis-1,2-Dichloroethene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| cis-1,3-Dichloropropene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| Cyclohexane | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| Dibromochloromethane | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| Dibromomethane | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| Dichlorodifluoromethane | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| Ethylbenzene | <1.00 | 2.00 | ug/Kg wet | | | | | | | U | 1 |
| Isobutanol | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| Isopropanol | <5.00 | 10.0 | ug/Kg wet | | | | | | | U | 1 |
| Isopropylbenzene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| m,p-Xylene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| Methyl tert-butyl ether | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| Methylene chloride | <25.0 | 50.0 | ug/Kg wet | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0919 - SW5035*** *(Continued)* | | | | | | | | | | | |
| **(B24J0919-BLK1), Blank** (Continued) | | | | *Prepared: 10/15/2024 07:39* | | | *Analyzed: 10/15/2024 09:30* | | | | |
| n-Butylbenzene | <0.500 | 1.00 | ug/Kg wet | | | | | | | U | 1 |
| n-Propylbenzene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| Naphthalene | <15.0 | 30.0 | ug/Kg wet | | | | | | | U | 1 |
| o-Xylene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| sec-Butylbenzene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| Styrene | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| tert-Butylbenzene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| Tetrachloroethene | <2.00 | 4.00 | ug/Kg wet | | | | | | | U | 1 |
| Tetrahydrofuran | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| Toluene | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| trans-1,2-Dichloroethene | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| trans-1,3-Dichloropropene | <0.400 | 0.800 | ug/Kg wet | | | | | | | U | 1 |
| Trichloroethene | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| Trichlorofluoromethane | <0.500 | 1.00 | ug/Kg wet | | | | | | | U | 1 |
| Vinyl acetate | <0.500 | 1.00 | ug/Kg wet | | | | | | | U | 1 |
| Vinyl chloride | <0.200 | 0.400 | ug/Kg wet | | | | | | | U | 1 |
| Xylenes, Total | <4.00 | 8.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichloroethene, Total | <0.500 | 1.00 | ug/Kg wet | | | | | | | U | 1 |
| 1,3-Dichloropropene, Total | <0.500 | 1.00 | ug/Kg wet | | | | | | | U | 1 |
| *Surrogate: Dibromofluoromethane* | *19.7* | | *ug/Kg* | *20.0* | | *98* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *17.4* | | *ug/Kg* | *20.0* | | *87* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *19.3* | | *ug/Kg* | *20.0* | | *97* | *81-114* | | | | 1 |
| *Surrogate: Toluene-d8* | *19.1* | | *ug/Kg* | *20.0* | | *96* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *10.1* | | *ug/Kg* | *10.0* | | *101* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *19.9* | | *ug/Kg* | *20.0* | | *100* | *80-120* | | | | 1 |
| **(B24J0919-BS1), LCS** | | | | *Prepared: 10/15/2024 07:39* | | | *Analyzed: 10/15/2024 10:00* | | | | |
| 1,1,1,2-Tetrachloroethane | 42.1 | 0.400 | ug/Kg wet | 40.0 | | 105 | 78-125 | | | | 1 |
| 1,1,1-Trichloroethane | 38.2 | 0.400 | ug/Kg wet | 40.0 | | 95 | 73-130 | | | | 1 |
| 1,1,2,2-Tetrachloroethane | 38.4 | 0.800 | ug/Kg wet | 40.0 | | 96 | 70-124 | | | | 1 |
| 1,1,2-Trichloroethane | 39.8 | 0.800 | ug/Kg wet | 40.0 | | 99 | 78-121 | | | | 1 |
| 1,1-Dichloroethane | 38.0 | 0.400 | ug/Kg wet | 40.0 | | 95 | 76-125 | | | | 1 |
| 1,1-Dichloroethene | 44.4 | 0.400 | ug/Kg wet | 40.0 | | 111 | 70-131 | | | | 1 |
| 1,1-Dichloropropene | 39.6 | 0.400 | ug/Kg wet | 40.0 | | 99 | 76-125 | | | | 1 |
| 1,2,3-Trichlorobenzene | 52.9 | 0.400 | ug/Kg wet | 40.0 | | 132 | 66-130 | | | S | 1 |
| 1,2,3-Trichloropropane | 40.3 | 0.800 | ug/Kg wet | 40.0 | | 101 | 73-125 | | | | 1 |
| 1,2,4-Trichlorobenzene | 47.0 | 0.800 | ug/Kg wet | 40.0 | | 117 | 67-129 | | | | 1 |
| 1,2,4-Trimethylbenzene | 42.8 | 16.0 | ug/Kg wet | 40.0 | | 107 | 75-123 | | | | 1 |
| 1,2-Dibromo-3-chloropropane | 42.0 | 0.800 | ug/Kg wet | 40.0 | | 105 | 61-132 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0919 - SW5035*** *(Continued)*

**(B24J0919-BS1), LCS** (Continued) *Prepared: 10/15/2024 07:39 Analyzed: 10/15/2024 10:00*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | 40.3 | 0.400 | ug/Kg wet | 40.0 | | 101 | 78-122 | | | | 1 |
| 1,2-Dichlorobenzene | 42.8 | 0.400 | ug/Kg wet | 40.0 | | 107 | 78-121 | | | | 1 |
| 1,2-Dichloroethane | 34.3 | 0.800 | ug/Kg wet | 40.0 | | 86 | 73-128 | | | | 1 |
| 1,2-Dichloropropane | 42.5 | 0.400 | ug/Kg wet | 40.0 | | 106 | 76-123 | | | | 1 |
| 1,3,5-Trimethylbenzene | 41.8 | 16.0 | ug/Kg wet | 40.0 | | 104 | 73-124 | | | | 1 |
| 1,3-Dichlorobenzene | 43.2 | 0.400 | ug/Kg wet | 40.0 | | 108 | 77-121 | | | | 1 |
| 1,3-Dichloropropane | 42.2 | 0.400 | ug/Kg wet | 40.0 | | 105 | 77-121 | | | | 1 |
| 1,4-Dioxane | 450 | 10.0 | ug/Kg wet | 400 | | 113 | 55-138 | | | | 1 |
| 1,4-Dichlorobenzene | 44.4 | 0.400 | ug/Kg wet | 40.0 | | 111 | 75-120 | | | | 1 |
| 1-Propanol | 437 | 20.0 | ug/Kg wet | 400 | | 109 | 70-130 | | | | 1 |
| 2,2-Dichloropropane | 39.0 | 0.800 | ug/Kg wet | 40.0 | | 98 | 67-133 | | | | 1 |
| 2-Butanone | 148 | 4.00 | ug/Kg wet | 140 | | 106 | 51-148 | | | | 1 |
| 2-Chloroethyl vinyl ether | 29.5 | 8.00 | ug/Kg wet | 40.0 | | 74 | 43-149 | | | | 1 |
| 2-Chlorotoluene | 41.7 | 0.400 | ug/Kg wet | 40.0 | | 104 | 75-122 | | | | 1 |
| 2-Hexanone | 130 | 4.00 | ug/Kg wet | 140 | | 93 | 53-145 | | | | 1 |
| 4-Chlorotoluene | 40.8 | 1.00 | ug/Kg wet | 40.0 | | 102 | 72-124 | | | | 1 |
| 4-Isopropyltoluene | 45.3 | 0.400 | ug/Kg wet | 40.0 | | 113 | 73-127 | | | | 1 |
| 4-Methyl-2-pentanone | 134 | 4.00 | ug/Kg wet | 140 | | 96 | 65-135 | | | | 1 |
| Acetone | 161 | 30.0 | ug/Kg wet | 140 | | 115 | 36-164 | | | | 1 |
| Acetonitrile | 100 | 8.00 | ug/Kg wet | 100 | | 100 | 54-143 | | | | 1 |
| Acrolein | 106 | 4.00 | ug/Kg wet | 100 | | 106 | 47-155 | | | | 1 |
| Acrylonitrile | 41.4 | 0.800 | ug/Kg wet | 40.0 | | 104 | 65-134 | | | | 1 |
| Benzene | 41.0 | 2.00 | ug/Kg wet | 40.0 | | 102 | 77-121 | | | | 1 |
| Bromobenzene | 41.5 | 0.400 | ug/Kg wet | 40.0 | | 104 | 78-121 | | | | 1 |
| Bromochloromethane | 42.0 | 0.800 | ug/Kg wet | 40.0 | | 105 | 78-125 | | | | 1 |
| Bromodichloromethane | 36.3 | 0.800 | ug/Kg wet | 40.0 | | 91 | 75-127 | | | | 1 |
| Bromoform | 38.4 | 0.800 | ug/Kg wet | 40.0 | | 96 | 67-132 | | | | 1 |
| Bromomethane | 41.9 | 2.00 | ug/Kg wet | 40.0 | | 105 | 53-143 | | | | 1 |
| Carbon disulfide | 41.9 | 8.00 | ug/Kg wet | 40.0 | | 105 | 63-132 | | | | 1 |
| Carbon tetrachloride | 36.4 | 0.400 | ug/Kg wet | 40.0 | | 91 | 70-135 | | | | 1 |
| Chlorobenzene | 42.0 | 0.200 | ug/Kg wet | 40.0 | | 105 | 79-120 | | | | 1 |
| Chloroethane | 32.8 | 1.00 | ug/Kg wet | 40.0 | | 82 | 59-139 | | | | 1 |
| Chloroform | 37.6 | 0.800 | ug/Kg wet | 40.0 | | 94 | 78-123 | | | | 1 |
| Chloromethane | 35.6 | 2.00 | ug/Kg wet | 40.0 | | 89 | 50-136 | | | | 1 |
| cis-1,2-Dichloroethene | 42.7 | 0.400 | ug/Kg wet | 40.0 | | 107 | 77-123 | | | | 1 |
| cis-1,3-Dichloropropene | 38.2 | 0.400 | ug/Kg wet | 40.0 | | 96 | 74-126 | | | | 1 |
| Cyclohexane | 42.4 | 0.800 | ug/Kg wet | 40.0 | | 106 | 67-131 | | | | 1 |
| Dibromochloromethane | 37.8 | 0.800 | ug/Kg wet | 40.0 | | 94 | 74-126 | | | | 1 |
| Dibromomethane | 43.5 | 0.400 | ug/Kg wet | 40.0 | | 109 | 78-125 | | | | 1 |
| Dichlorodifluoromethane | 33.0 | 0.400 | ug/Kg wet | 40.0 | | 82 | 29-149 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0919 - SW5035*** *(Continued)*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **(B24J0919-BS1), LCS** (Continued) | | | | *Prepared: 10/15/2024 07:39* | | | *Analyzed: 10/15/2024 10:00* | | | | |
| Ethylbenzene | 40.9 | 2.00 | ug/Kg wet | 40.0 | | 102 | 76-122 | | | | 1 |
| Isobutanol | 374 | 10.0 | ug/Kg wet | 400 | | 93 | 60-135 | | | | 1 |
| Isopropanol | 371 | 10.0 | ug/Kg wet | 400 | | 93 | 60-140 | | | | 1 |
| Isopropylbenzene | 42.1 | 0.400 | ug/Kg wet | 40.0 | | 105 | 68-134 | | | | 1 |
| m,p-Xylene | 81.3 | 8.00 | ug/Kg wet | 80.0 | | 102 | 77-124 | | | | 1 |
| Methyl tert-butyl ether | 41.6 | 0.800 | ug/Kg wet | 40.0 | | 104 | 73-125 | | | | 1 |
| Methylene chloride | 34.9 | 50.0 | ug/Kg wet | 40.0 | | 87 | 70-128 | | | J | 1 |
| n-Butylbenzene | 47.0 | 1.00 | ug/Kg wet | 40.0 | | 118 | 70-128 | | | | 1 |
| n-Propylbenzene | 40.4 | 0.400 | ug/Kg wet | 40.0 | | 101 | 73-125 | | | | 1 |
| Naphthalene | 50.6 | 30.0 | ug/Kg wet | 40.0 | | 127 | 62-129 | | | | 1 |
| o-Xylene | 41.7 | 8.00 | ug/Kg wet | 40.0 | | 104 | 77-123 | | | | 1 |
| sec-Butylbenzene | 45.0 | 0.400 | ug/Kg wet | 40.0 | | 112 | 73-126 | | | | 1 |
| Styrene | 42.1 | 0.800 | ug/Kg wet | 40.0 | | 105 | 76-124 | | | | 1 |
| tert-Butylbenzene | 42.2 | 0.400 | ug/Kg wet | 40.0 | | 106 | 73-125 | | | | 1 |
| Tetrachloroethene | 42.8 | 4.00 | ug/Kg wet | 40.0 | | 107 | 73-128 | | | | 1 |
| Tetrahydrofuran | 39.4 | 0.800 | ug/Kg wet | 40.0 | | 99 | 61-135 | | | | 1 |
| Toluene | 41.3 | 8.00 | ug/Kg wet | 40.0 | | 103 | 77-121 | | | | 1 |
| trans-1,2-Dichloroethene | 45.0 | 0.800 | ug/Kg wet | 40.0 | | 112 | 74-125 | | | | 1 |
| trans-1,3-Dichloropropene | 37.1 | 0.800 | ug/Kg wet | 40.0 | | 93 | 71-130 | | | | 1 |
| Trichloroethene | 41.7 | 0.400 | ug/Kg wet | 40.0 | | 104 | 77-123 | | | | 1 |
| Trichlorofluoromethane | 34.0 | 1.00 | ug/Kg wet | 40.0 | | 85 | 62-140 | | | | 1 |
| Vinyl acetate | 47.4 | 1.00 | ug/Kg wet | 40.0 | | 118 | 50-151 | | | | 1 |
| Vinyl chloride | 32.7 | 0.400 | ug/Kg wet | 40.0 | | 82 | 56-135 | | | | 1 |
| Xylenes, Total | 123 | 8.00 | ug/Kg wet | 120 | | 102 | 78-124 | | | | 1 |
| 1,2-Dichloroethene, Total | 87.7 | 1.00 | ug/Kg wet | 80.0 | | 110 | 78-122 | | | | 1 |
| 1,3-Dichloropropene, Total | 75.3 | 1.00 | ug/Kg wet | 80.0 | | 94 | 77-126 | | | | 1 |
| *Surrogate: Dibromofluoromethane* | *18.8* | | *ug/Kg* | *20.0* | | *94* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *16.0* | | *ug/Kg* | *20.0* | | *80* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *19.8* | | *ug/Kg* | *20.0* | | *99* | *81-114* | | | | 1 |
| *Surrogate: Toluene-d8* | *19.4* | | *ug/Kg* | *20.0* | | *97* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *10.0* | | *ug/Kg* | *10.0* | | *100* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *20.3* | | *ug/Kg* | *20.0* | | *102* | *80-120* | | | | 1 |
| **(B24J0919-BSD1), LCS Dup** | | | | *Prepared: 10/15/2024 07:39* | | | *Analyzed: 10/15/2024 10:29* | | | | |
| 1,1,1,2-Tetrachloroethane | 42.6 | 0.400 | ug/Kg wet | 40.0 | | 106 | 78-125 | 1 | 20 | | 1 |
| 1,1,1-Trichloroethane | 38.9 | 0.400 | ug/Kg wet | 40.0 | | 97 | 73-130 | 2 | 20 | | 1 |
| 1,1,2,2-Tetrachloroethane | 39.2 | 0.800 | ug/Kg wet | 40.0 | | 98 | 70-124 | 2 | 20 | | 1 |
| 1,1,2-Trichloroethane | 41.3 | 0.800 | ug/Kg wet | 40.0 | | 103 | 78-121 | 4 | 20 | | 1 |
| 1,1-Dichloroethane | 38.8 | 0.400 | ug/Kg wet | 40.0 | | 97 | 76-125 | 2 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0919 - SW5035*** *(Continued)*

**(B24J0919-BSD1), LCS Dup** (Continued) *Prepared: 10/15/2024 07:39 Analyzed: 10/15/2024 10:29*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 46.6 | 0.400 | ug/Kg wet | 40.0 | | 117 | 70-131 | 5 | 20 | | 1 |
| 1,1-Dichloropropene | 40.5 | 0.400 | ug/Kg wet | 40.0 | | 101 | 76-125 | 2 | 20 | | 1 |
| 1,2,3-Trichlorobenzene | 52.4 | 0.400 | ug/Kg wet | 40.0 | | 131 | 66-130 | 1 | 20 | S | 1 |
| 1,2,3-Trichloropropane | 38.6 | 0.800 | ug/Kg wet | 40.0 | | 96 | 73-125 | 4 | 20 | | 1 |
| 1,2,4-Trichlorobenzene | 47.3 | 0.800 | ug/Kg wet | 40.0 | | 118 | 67-129 | 0.7 | 20 | | 1 |
| 1,2,4-Trimethylbenzene | 42.7 | 16.0 | ug/Kg wet | 40.0 | | 107 | 75-123 | 0.2 | 20 | | 1 |
| 1,2-Dibromo-3-chloropropane | 42.1 | 0.800 | ug/Kg wet | 40.0 | | 105 | 61-132 | 0.2 | 20 | | 1 |
| 1,2-Dibromoethane | 39.5 | 0.400 | ug/Kg wet | 40.0 | | 99 | 78-122 | 2 | 20 | | 1 |
| 1,2-Dichlorobenzene | 42.3 | 0.400 | ug/Kg wet | 40.0 | | 106 | 78-121 | 1 | 20 | | 1 |
| 1,2-Dichloroethane | 34.0 | 0.800 | ug/Kg wet | 40.0 | | 85 | 73-128 | 0.8 | 20 | | 1 |
| 1,2-Dichloropropane | 42.8 | 0.400 | ug/Kg wet | 40.0 | | 107 | 76-123 | 0.7 | 20 | | 1 |
| 1,3,5-Trimethylbenzene | 42.1 | 16.0 | ug/Kg wet | 40.0 | | 105 | 73-124 | 0.8 | 20 | | 1 |
| 1,3-Dichlorobenzene | 43.8 | 0.400 | ug/Kg wet | 40.0 | | 110 | 77-121 | 2 | 20 | | 1 |
| 1,3-Dichloropropane | 42.1 | 0.400 | ug/Kg wet | 40.0 | | 105 | 77-121 | 0.2 | 20 | | 1 |
| 1,4-Dioxane | 473 | 10.0 | ug/Kg wet | 400 | | 118 | 55-138 | 5 | 20 | | 1 |
| 1,4-Dichlorobenzene | 43.2 | 0.400 | ug/Kg wet | 40.0 | | 108 | 75-120 | 3 | 20 | | 1 |
| 1-Propanol | 414 | 20.0 | ug/Kg wet | 400 | | 103 | 70-130 | 5 | 20 | | 1 |
| 2,2-Dichloropropane | 39.8 | 0.800 | ug/Kg wet | 40.0 | | 100 | 67-133 | 2 | 20 | | 1 |
| 2-Butanone | 148 | 4.00 | ug/Kg wet | 140 | | 105 | 51-148 | 0.6 | 20 | | 1 |
| 2-Chloroethyl vinyl ether | 30.2 | 8.00 | ug/Kg wet | 40.0 | | 75 | 43-149 | 2 | 20 | | 1 |
| 2-Chlorotoluene | 41.6 | 0.400 | ug/Kg wet | 40.0 | | 104 | 75-122 | 0.3 | 20 | | 1 |
| 2-Hexanone | 123 | 4.00 | ug/Kg wet | 140 | | 88 | 53-145 | 6 | 20 | | 1 |
| 4-Chlorotoluene | 41.2 | 1.00 | ug/Kg wet | 40.0 | | 103 | 72-124 | 1 | 20 | | 1 |
| 4-Isopropyltoluene | 46.4 | 0.400 | ug/Kg wet | 40.0 | | 116 | 73-127 | 2 | 20 | | 1 |
| 4-Methyl-2-pentanone | 136 | 4.00 | ug/Kg wet | 140 | | 97 | 65-135 | 2 | 20 | | 1 |
| Acetone | 149 | 30.0 | ug/Kg wet | 140 | | 107 | 36-164 | 8 | 20 | | 1 |
| Acetonitrile | 105 | 8.00 | ug/Kg wet | 100 | | 105 | 54-143 | 5 | 20 | | 1 |
| Acrolein | 106 | 4.00 | ug/Kg wet | 100 | | 106 | 47-155 | 0.8 | 20 | | 1 |
| Acrylonitrile | 39.4 | 0.800 | ug/Kg wet | 40.0 | | 98 | 65-134 | 5 | 20 | | 1 |
| Benzene | 42.7 | 2.00 | ug/Kg wet | 40.0 | | 107 | 77-121 | 4 | 20 | | 1 |
| Bromobenzene | 42.3 | 0.400 | ug/Kg wet | 40.0 | | 106 | 78-121 | 2 | 20 | | 1 |
| Bromochloromethane | 43.2 | 0.800 | ug/Kg wet | 40.0 | | 108 | 78-125 | 3 | 20 | | 1 |
| Bromodichloromethane | 36.5 | 0.800 | ug/Kg wet | 40.0 | | 91 | 75-127 | 0.4 | 20 | | 1 |
| Bromoform | 38.4 | 0.800 | ug/Kg wet | 40.0 | | 96 | 67-132 | 0.08 | 20 | | 1 |
| Bromomethane | 43.2 | 2.00 | ug/Kg wet | 40.0 | | 108 | 53-143 | 3 | 20 | | 1 |
| Carbon disulfide | 42.7 | 8.00 | ug/Kg wet | 40.0 | | 107 | 63-132 | 2 | 20 | | 1 |
| Carbon tetrachloride | 37.9 | 0.400 | ug/Kg wet | 40.0 | | 95 | 70-135 | 4 | 20 | | 1 |
| Chlorobenzene | 42.4 | 0.200 | ug/Kg wet | 40.0 | | 106 | 79-120 | 1 | 20 | | 1 |
| Chloroethane | 34.2 | 1.00 | ug/Kg wet | 40.0 | | 85 | 59-139 | 4 | 20 | | 1 |
| Chloroform | 38.4 | 0.800 | ug/Kg wet | 40.0 | | 96 | 78-123 | 2 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0919 - SW5035*** *(Continued)*

**(B24J0919-BSD1), LCS Dup** (Continued) *Prepared: 10/15/2024 07:39 Analyzed: 10/15/2024 10:29*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 37.6 | 2.00 | ug/Kg wet | 40.0 | | 94 | 50-136 | 5 | 20 | | 1 |
| cis-1,2-Dichloroethene | 43.4 | 0.400 | ug/Kg wet | 40.0 | | 108 | 77-123 | 2 | 20 | | 1 |
| cis-1,3-Dichloropropene | 39.0 | 0.400 | ug/Kg wet | 40.0 | | 98 | 74-126 | 2 | 20 | | 1 |
| Cyclohexane | 44.6 | 0.800 | ug/Kg wet | 40.0 | | 111 | 67-131 | 5 | 20 | | 1 |
| Dibromochloromethane | 38.0 | 0.800 | ug/Kg wet | 40.0 | | 95 | 74-126 | 0.6 | 20 | | 1 |
| Dibromomethane | 43.2 | 0.400 | ug/Kg wet | 40.0 | | 108 | 78-125 | 0.7 | 20 | | 1 |
| Dichlorodifluoromethane | 35.2 | 0.400 | ug/Kg wet | 40.0 | | 88 | 29-149 | 6 | 20 | | 1 |
| Ethylbenzene | 41.5 | 2.00 | ug/Kg wet | 40.0 | | 104 | 76-122 | 1 | 20 | | 1 |
| Isobutanol | 382 | 10.0 | ug/Kg wet | 400 | | 96 | 60-135 | 2 | 20 | | 1 |
| Isopropanol | 377 | 10.0 | ug/Kg wet | 400 | | 94 | 60-140 | 2 | 20 | | 1 |
| Isopropylbenzene | 43.0 | 0.400 | ug/Kg wet | 40.0 | | 108 | 68-134 | 2 | 20 | | 1 |
| m,p-Xylene | 81.7 | 8.00 | ug/Kg wet | 80.0 | | 102 | 77-124 | 0.5 | 20 | | 1 |
| Methyl tert-butyl ether | 42.8 | 0.800 | ug/Kg wet | 40.0 | | 107 | 73-125 | 3 | 20 | | 1 |
| Methylene chloride | 35.8 | 50.0 | ug/Kg wet | 40.0 | | 90 | 70-128 | 3 | 20 | J | 1 |
| n-Butylbenzene | 47.1 | 1.00 | ug/Kg wet | 40.0 | | 118 | 70-128 | 0.3 | 20 | | 1 |
| n-Propylbenzene | 41.3 | 0.400 | ug/Kg wet | 40.0 | | 103 | 73-125 | 2 | 20 | | 1 |
| Naphthalene | 50.3 | 30.0 | ug/Kg wet | 40.0 | | 126 | 62-129 | 0.6 | 20 | | 1 |
| o-Xylene | 41.6 | 8.00 | ug/Kg wet | 40.0 | | 104 | 77-123 | 0.3 | 20 | | 1 |
| sec-Butylbenzene | 46.0 | 0.400 | ug/Kg wet | 40.0 | | 115 | 73-126 | 2 | 20 | | 1 |
| Styrene | 42.0 | 0.800 | ug/Kg wet | 40.0 | | 105 | 76-124 | 0.1 | 20 | | 1 |
| tert-Butylbenzene | 41.8 | 0.400 | ug/Kg wet | 40.0 | | 105 | 73-125 | 0.9 | 20 | | 1 |
| Tetrachloroethene | 41.4 | 4.00 | ug/Kg wet | 40.0 | | 103 | 73-128 | 3 | 20 | | 1 |
| Tetrahydrofuran | 38.3 | 0.800 | ug/Kg wet | 40.0 | | 96 | 61-135 | 3 | 20 | | 1 |
| Toluene | 41.1 | 8.00 | ug/Kg wet | 40.0 | | 103 | 77-121 | 0.3 | 20 | | 1 |
| trans-1,2-Dichloroethene | 46.1 | 0.800 | ug/Kg wet | 40.0 | | 115 | 74-125 | 2 | 20 | | 1 |
| trans-1,3-Dichloropropene | 37.1 | 0.800 | ug/Kg wet | 40.0 | | 93 | 71-130 | 0.08 | 20 | | 1 |
| Trichloroethene | 42.9 | 0.400 | ug/Kg wet | 40.0 | | 107 | 77-123 | 3 | 20 | | 1 |
| Trichlorofluoromethane | 35.4 | 1.00 | ug/Kg wet | 40.0 | | 88 | 62-140 | 4 | 20 | | 1 |
| Vinyl acetate | 48.4 | 1.00 | ug/Kg wet | 40.0 | | 121 | 50-151 | 2 | 20 | | 1 |
| Vinyl chloride | 34.6 | 0.400 | ug/Kg wet | 40.0 | | 87 | 56-135 | 6 | 20 | | 1 |
| Xylenes, Total | 123 | 8.00 | ug/Kg wet | 120 | | 103 | 78-124 | 0.2 | 20 | | 1 |
| 1,2-Dichloroethene, Total | 89.5 | 1.00 | ug/Kg wet | 80.0 | | 112 | 78-122 | 2 | 20 | | 1 |
| 1,3-Dichloropropene, Total | 76.1 | 1.00 | ug/Kg wet | 80.0 | | 95 | 77-126 | 1 | 20 | | 1 |
| *Surrogate: Dibromofluoromethane* | *19.5* | | *ug/Kg* | *20.0* | | *98* | *78-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *17.2* | | *ug/Kg* | *20.0* | | *86* | *71-136* | | | | 1 |
| *Surrogate: Fluorobenzene* | *20.3* | | *ug/Kg* | *20.0* | | *102* | *81-114* | | | | 1 |
| *Surrogate: Toluene-d8* | *19.2* | | *ug/Kg* | *20.0* | | *96* | *85-116* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *10.0* | | *ug/Kg* | *10.0* | | *100* | *79-119* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *20.0* | | *ug/Kg* | *20.0* | | *100* | *80-120* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0623 - SW5035*** | | | | | | | | | | | |
| **(B24J0623-BLK1), Blank** | | | | *Prepared: 10/08/2024 08:05* | | | *Analyzed: 10/08/2024 10:53* | | | | |
| unknown | 2.76 | | ug/Kg | | | | | | | | 1 |
| No TICs found | | | ug/Kg | | | | | | | | 1 |
| ***Batch: B24J0625 - SW5035*** | | | | | | | | | | | |
| **(B24J0625-BLK1), Blank** | | | | *Prepared: 10/09/2024 08:14* | | | *Analyzed: 10/09/2024 10:23* | | | | |
| No TICs found | | | ug/Kg | | | | | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0296 - SW3550*** | | | | | | | | | | | |
| **(B24J0296-BLK1), Blank** | | | | *Prepared: 10/08/2024 03:55* | | | *Analyzed: 10/14/2024 19:08* | | | | |
| 1,2,4-Trichlorobenzene | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichlorobenzene | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 1,3-Dichlorobenzene | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 1,4-Dichlorobenzene | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 1-Methylnaphthalene | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 2,4,5-Trichlorophenol | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| 2,4,6-Trichlorophenol | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| 2,4-Dichlorophenol | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| 2,4-Dimethylphenol | <29.7 | 59.4 | ug/Kg wet | | | | | | | U | 1 |
| 2,4-Dinitrophenol | <297 | 495 | ug/Kg wet | | | | | | | U | 1 |
| 2,4-Dinitrotoluene | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 2,6-Dichlorophenol | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| 2,6-Dinitrotoluene | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| 2-Chloronaphthalene | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| 2-Chlorophenol | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| 2-Methylnaphthalene | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 2-Methylphenol | <4.95 | 9.89 | ug/Kg wet | | | | | | | U | 1 |
| 2-Nitroaniline | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 2-Nitrophenol | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 3,3´-Dichlorobenzidine | <59.4 | 119 | ug/Kg wet | | | | | | | U | 1 |
| 3 & 4-Methylphenol | <19.8 | 39.6 | ug/Kg wet | | | | | | | U | 1 |
| 3-Nitroaniline | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 4,6-Dinitro-2-methylphenol | <396 | 791 | ug/Kg wet | | | | | | | U | 1 |
| 4-Bromophenyl-phenylether | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 4-Chloro-3-methylphenol | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| 4-Chloroaniline | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 4-Chlorophenyl-phenylether | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| 4-Nitroaniline | <19.8 | 39.6 | ug/Kg wet | | | | | | | U | 1 |
| 4-Nitrophenol | <396 | 791 | ug/Kg wet | | | | | | | U | 1 |
| Acenaphthene | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| Acenaphthylene | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| Aniline | <119 | 198 | ug/Kg wet | | | | | | | U | 1 |
| Anthracene | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| Benzidine | <791 | 3,300 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(a)anthracene | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(a)pyrene | <39.6 | 79.1 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(b)fluoranthene | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(g,h,i)perylene | <19.8 | 39.6 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(k)fluoranthene | <19.8 | 39.6 | ug/Kg wet | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0296 - SW3550*** *(Continued)*

**(B24J0296-BLK1), Blank** (Continued) *Prepared: 10/08/2024 03:55 Analyzed: 10/14/2024 19:08*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzoic acid | <396 | 1,580 | ug/Kg wet | | | | | | | U | 1 |
| Benzyl alcohol | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Bis(2-chloroethoxy)methane | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| Bis(2-chloroethyl)ether | <396 | 495 | ug/Kg wet | | | | | | | U | 1 |
| Bis(2-ethylhexyl)phthalate | <119 | 198 | ug/Kg wet | | | | | | | U | 1 |
| Butyl benzyl phthalate | <29.7 | 59.4 | ug/Kg wet | | | | | | | U | 1 |
| Carbazole | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| Chrysene | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| Dibenzo(a,h)anthracene | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Dibenzofuran | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Diethyl phthalate | <119 | 198 | ug/Kg wet | | | | | | | U | 1 |
| Dimethyl phthalate | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| Di-n-butyl phthalate | <29.7 | 59.4 | ug/Kg wet | | | | | | | U | 1 |
| Di-n-octyl phthalate | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Fluoranthene | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Fluorene | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| Hexachlorobenzene | <9.89 | 19.8 | ug/Kg wet | | | | | | | U | 1 |
| Hexachlorobutadiene | <19.8 | 39.6 | ug/Kg wet | | | | | | | U | 1 |
| Hexachlorocyclopentadiene | <396 | 791 | ug/Kg wet | | | | | | | U | 1 |
| Hexachloroethane | <19.8 | 39.6 | ug/Kg wet | | | | | | | U | 1 |
| Indeno(1,2,3-cd)pyrene | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Isophorone | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Naphthalene | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Nitrobenzene | <19.8 | 39.6 | ug/Kg wet | | | | | | | U | 1 |
| N-Nitrosodimethylamine | <19.8 | 39.6 | ug/Kg wet | | | | | | | U | 1 |
| N-Nitrosodi-n-propylamine | <29.7 | 59.4 | ug/Kg wet | | | | | | | U | 1 |
| N-Nitrosodiphenylamine | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| N-Nitrosopyrrolidine | <19.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Pentachlorophenol | <297 | 495 | ug/Kg wet | | | | | | | U | 1 |
| Phenanthrene | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Phenol | <19.8 | 39.6 | ug/Kg wet | | | | | | | U | 1 |
| Pyrene | <14.8 | 29.7 | ug/Kg wet | | | | | | | U | 1 |
| Pyridine | <396 | 791 | ug/Kg wet | | | | | | | U | 1 |
| *Surrogate: 2-Fluorophenol* | *1,550* | | *ug/Kg wet* | *2,200* | | *71* | *35-115* | | | | 1 |
| *Surrogate: Phenol-d5* | *1,660* | | *ug/Kg wet* | *2,200* | | *75* | *33-122* | | | | 1 |
| *Surrogate: Nitrobenzene-d5* | *1,620* | | *ug/Kg wet* | *2,200* | | *74* | *37-122* | | | | 1 |
| *Surrogate: 2-Fluorobiphenyl* | *1,710* | | *ug/Kg wet* | *2,200* | | *78* | *44-115* | | | | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | *1,740* | | *ug/Kg wet* | *2,200* | | *79* | *39-132* | | | | 1 |
| *Surrogate: 4-Terphenyl-d14* | *1,820* | | *ug/Kg wet* | *2,200* | | *83* | *54-127* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0296 - SW3550*** *(Continued)*

**(B24J0296-BS1), LCS** *Prepared: 10/08/2024 03:55 Analyzed: 10/14/2024 19:28*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 1,180 | 29.6 | ug/Kg wet | 1,640 | | 72 | 34-118 | | | | 1 |
| 1,2-Dichlorobenzene | 1,140 | 29.6 | ug/Kg wet | 1,640 | | 69 | 33-117 | | | | 1 |
| 1,3-Dichlorobenzene | 1,120 | 29.6 | ug/Kg wet | 1,640 | | 68 | 30-115 | | | | 1 |
| 1,4-Dichlorobenzene | 1,120 | 29.6 | ug/Kg wet | 1,640 | | 68 | 31-115 | | | | 1 |
| 1-Methylnaphthalene | 1,240 | 29.6 | ug/Kg wet | 1,640 | | 75 | 40-119 | | | | 1 |
| 2,4,5-Trichlorophenol | 1,290 | 19.7 | ug/Kg wet | 1,640 | | 79 | 41-124 | | | | 1 |
| 2,4,6-Trichlorophenol | 1,250 | 19.7 | ug/Kg wet | 1,640 | | 76 | 39-126 | | | | 1 |
| 2,4-Dichlorophenol | 1,250 | 19.7 | ug/Kg wet | 1,640 | | 76 | 40-122 | | | | 1 |
| 2,4-Dimethylphenol | 1,130 | 59.2 | ug/Kg wet | 1,640 | | 69 | 30-127 | | | | 1 |
| 2,4-Dinitrophenol | 1,430 | 493 | ug/Kg wet | 1,640 | | 87 | 15-130 | | | | 1 |
| 2,4-Dinitrotoluene | 1,350 | 29.6 | ug/Kg wet | 1,640 | | 82 | 48-126 | | | | 1 |
| 2,6-Dichlorophenol | 1,240 | 19.7 | ug/Kg wet | 1,640 | | 75 | 41-117 | | | | 1 |
| 2,6-Dinitrotoluene | 1,310 | 19.7 | ug/Kg wet | 1,640 | | 80 | 46-124 | | | | 1 |
| 2-Chloronaphthalene | 1,280 | 19.7 | ug/Kg wet | 1,640 | | 78 | 41-114 | | | | 1 |
| 2-Chlorophenol | 1,200 | 19.7 | ug/Kg wet | 1,640 | | 73 | 34-121 | | | | 1 |
| 2-Methylnaphthalene | 1,250 | 29.6 | ug/Kg wet | 1,640 | | 76 | 38-122 | | | | 1 |
| 2-Methylphenol | 1,240 | 9.86 | ug/Kg wet | 1,640 | | 76 | 32-122 | | | | 1 |
| 2-Nitroaniline | 1,330 | 29.6 | ug/Kg wet | 1,640 | | 81 | 44-127 | | | | 1 |
| 2-Nitrophenol | 1,200 | 29.6 | ug/Kg wet | 1,640 | | 73 | 36-123 | | | | 1 |
| 3,3´-Dichlorobenzidine | 2,040 | 118 | ug/Kg wet | 2,630 | | 77 | 22-121 | | | | 1 |
| 3 & 4-Methylphenol | 1,270 | 39.5 | ug/Kg wet | 1,640 | | 77 | 34-119 | | | | 1 |
| 3-Nitroaniline | 1,370 | 29.6 | ug/Kg wet | 1,640 | | 83 | 33-119 | | | | 1 |
| 4,6-Dinitro-2-methylphenol | 1,410 | 789 | ug/Kg wet | 1,640 | | 86 | 29-132 | | | | 1 |
| 4-Bromophenyl-phenylether | 1,310 | 29.6 | ug/Kg wet | 1,640 | | 80 | 46-124 | | | | 1 |
| 4-Chloro-3-methylphenol | 1,290 | 19.7 | ug/Kg wet | 1,640 | | 79 | 45-122 | | | | 1 |
| 4-Chloroaniline | 1,230 | 29.6 | ug/Kg wet | 1,640 | | 75 | 17-106 | | | | 1 |
| 4-Chlorophenyl-phenylether | 1,320 | 29.6 | ug/Kg wet | 1,640 | | 80 | 45-121 | | | | 1 |
| 4-Nitroaniline | 1,370 | 39.5 | ug/Kg wet | 1,640 | | 84 | 35-115 | | | | 1 |
| 4-Nitrophenol | 1,370 | 789 | ug/Kg wet | 1,640 | | 83 | 30-132 | | | | 1 |
| Acenaphthene | 1,330 | 19.7 | ug/Kg wet | 1,640 | | 81 | 40-123 | | | | 1 |
| Acenaphthylene | 1,310 | 19.7 | ug/Kg wet | 1,640 | | 80 | 32-132 | | | | 1 |
| Aniline | 1,100 | 197 | ug/Kg wet | 1,640 | | 67 | 40-135 | | | | 1 |
| Anthracene | 1,370 | 29.6 | ug/Kg wet | 1,640 | | 84 | 47-123 | | | | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | 1,380 | 19.7 | ug/Kg wet | 1,640 | | 84 | 39-125 | | | | 1 |
| Benzidine | 1,310 | 3,290 | ug/Kg wet | 2,630 | | 50 | 29-140 | | | J | 1 |
| Benzo(a)anthracene | 1,340 | 29.6 | ug/Kg wet | 1,640 | | 81 | 49-126 | | | | 1 |
| Benzo(a)pyrene | 1,340 | 78.9 | ug/Kg wet | 1,640 | | 81 | 45-129 | | | | 1 |
| Benzo(b)fluoranthene | 1,340 | 29.6 | ug/Kg wet | 1,640 | | 81 | 45-132 | | | | 1 |
| Benzo(g,h,i)perylene | 1,360 | 39.5 | ug/Kg wet | 1,640 | | 83 | 43-134 | | | | 1 |
| Benzo(k)fluoranthene | 1,370 | 39.5 | ug/Kg wet | 1,640 | | 83 | 47-132 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0296 - SW3550*** *(Continued)*

**(B24J0296-BS1), LCS** (Continued) *Prepared: 10/08/2024 03:55 Analyzed: 10/14/2024 19:28*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzoic acid | 2,350 | 1,580 | ug/Kg wet | 5,260 | | 45 | 22-118 | | | | 1 |
| Benzyl alcohol | 1,240 | 29.6 | ug/Kg wet | 1,640 | | 76 | 29-122 | | | | 1 |
| Bis(2-chloroethoxy)methane | 1,270 | 19.7 | ug/Kg wet | 1,640 | | 77 | 36-121 | | | | 1 |
| Bis(2-chloroethyl)ether | 1,210 | 493 | ug/Kg wet | 1,640 | | 74 | 31-120 | | | | 1 |
| Bis(2-ethylhexyl)phthalate | 1,370 | 197 | ug/Kg wet | 1,640 | | 83 | 51-133 | | | | 1 |
| Butyl benzyl phthalate | 1,330 | 59.2 | ug/Kg wet | 1,640 | | 81 | 48-132 | | | | 1 |
| Carbazole | 1,370 | 19.7 | ug/Kg wet | 1,640 | | 84 | 50-123 | | | | 1 |
| Chrysene | 1,340 | 19.7 | ug/Kg wet | 1,640 | | 81 | 50-124 | | | | 1 |
| Dibenzo(a,h)anthracene | 1,350 | 29.6 | ug/Kg wet | 1,640 | | 82 | 45-134 | | | | 1 |
| Dibenzofuran | 1,290 | 29.6 | ug/Kg wet | 1,640 | | 78 | 44-120 | | | | 1 |
| Diethyl phthalate | 1,340 | 197 | ug/Kg wet | 1,640 | | 82 | 50-124 | | | | 1 |
| Dimethyl phthalate | 1,350 | 19.7 | ug/Kg wet | 1,640 | | 82 | 48-124 | | | | 1 |
| Di-n-butyl phthalate | 1,420 | 59.2 | ug/Kg wet | 1,640 | | 86 | 51-128 | | | | 1 |
| Di-n-octyl phthalate | 1,360 | 29.6 | ug/Kg wet | 1,640 | | 83 | 45-140 | | | | 1 |
| Fluoranthene | 1,390 | 29.6 | ug/Kg wet | 1,640 | | 84 | 50-127 | | | | 1 |
| Fluorene | 1,330 | 19.7 | ug/Kg wet | 1,640 | | 81 | 43-125 | | | | 1 |
| Hexachlorobenzene | 1,340 | 19.7 | ug/Kg wet | 1,640 | | 81 | 45-122 | | | | 1 |
| Hexachlorobutadiene | 1,150 | 39.5 | ug/Kg wet | 1,640 | | 70 | 32-123 | | | | 1 |
| Hexachlorocyclopentadiene | 1,210 | 789 | ug/Kg wet | 1,640 | | 74 | 31-133 | | | | 1 |
| Hexachloroethane | 1,170 | 39.5 | ug/Kg wet | 1,640 | | 71 | 28-117 | | | | 1 |
| Indeno(1,2,3-cd)pyrene | 1,340 | 29.6 | ug/Kg wet | 1,640 | | 82 | 45-133 | | | | 1 |
| Isophorone | 1,290 | 29.6 | ug/Kg wet | 1,640 | | 79 | 30-122 | | | | 1 |
| Naphthalene | 1,230 | 29.6 | ug/Kg wet | 1,640 | | 75 | 35-123 | | | | 1 |
| Nitrobenzene | 1,270 | 39.5 | ug/Kg wet | 1,640 | | 77 | 34-122 | | | | 1 |
| N-Nitrosodimethylamine | 1,160 | 39.5 | ug/Kg wet | 1,640 | | 71 | 23-120 | | | | 1 |
| N-Nitrosodi-n-propylamine | 1,290 | 59.2 | ug/Kg wet | 1,640 | | 79 | 36-120 | | | | 1 |
| N-Nitrosodiphenylamine | 1,340 | 29.6 | ug/Kg wet | 1,640 | | 81 | 38-127 | | | | 1 |
| N-Nitrosopyrrolidine | 1,280 | 29.6 | ug/Kg wet | 1,640 | | 78 | 45-126 | | | | 1 |
| Pentachlorophenol | 1,240 | 493 | ug/Kg wet | 1,640 | | 75 | 25-133 | | | | 1 |
| Phenanthrene | 1,360 | 29.6 | ug/Kg wet | 1,640 | | 83 | 50-121 | | | | 1 |
| Phenol | 1,240 | 39.5 | ug/Kg wet | 1,640 | | 75 | 34-121 | | | | 1 |
| Pyrene | 1,330 | 29.6 | ug/Kg wet | 1,640 | | 81 | 47-127 | | | | 1 |
| Pyridine | 743 | 789 | ug/Kg wet | 1,640 | | 45 | 7-72 | | | J | 1 |
| *Surrogate: 2-Fluorophenol* | *1,590* | | *ug/Kg wet* | *2,190* | | *72* | *35-115* | | | | 1 |
| *Surrogate: Phenol-d5* | *1,680* | | *ug/Kg wet* | *2,190* | | *77* | *33-122* | | | | 1 |
| *Surrogate: Nitrobenzene-d5* | *1,740* | | *ug/Kg wet* | *2,190* | | *79* | *37-122* | | | | 1 |
| *Surrogate: 2-Fluorobiphenyl* | *1,800* | | *ug/Kg wet* | *2,190* | | *82* | *44-115* | | | | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | *1,860* | | *ug/Kg wet* | *2,190* | | *85* | *39-132* | | | | 1 |
| *Surrogate: 4-Terphenyl-d14* | *1,880* | | *ug/Kg wet* | *2,190* | | *86* | *54-127* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0296 - SW3550*** *(Continued)*

**(B24J0296-MS1), Matrix Spike** **Source: O24J0276-11** *Prepared: 10/08/2024 03:55 Analyzed: 10/14/2024 19:49*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 893 | 25.4 | ug/Kg dry | 1,410 | ND | 63 | 34-118 | | | | 1 |
| 1,2-Dichlorobenzene | 841 | 25.4 | ug/Kg dry | 1,410 | ND | 60 | 33-117 | | | | 1 |
| 1,3-Dichlorobenzene | 763 | 25.4 | ug/Kg dry | 1,410 | ND | 54 | 30-115 | | | | 1 |
| 1,4-Dichlorobenzene | 803 | 25.4 | ug/Kg dry | 1,410 | ND | 57 | 31-115 | | | | 1 |
| 1-Methylnaphthalene | 976 | 25.4 | ug/Kg dry | 1,410 | ND | 69 | 40-119 | | | | 1 |
| 2,4,5-Trichlorophenol | 1,020 | 16.9 | ug/Kg dry | 1,410 | ND | 72 | 41-124 | | | | 1 |
| 2,4,6-Trichlorophenol | 1,010 | 16.9 | ug/Kg dry | 1,410 | ND | 72 | 39-126 | | | | 1 |
| 2,4-Dichlorophenol | 1,000 | 16.9 | ug/Kg dry | 1,410 | ND | 71 | 40-122 | | | | 1 |
| 2,4-Dimethylphenol | 968 | 50.8 | ug/Kg dry | 1,410 | ND | 69 | 30-127 | | | | 1 |
| 2,4-Dinitrophenol | 1,210 | 423 | ug/Kg dry | 1,410 | ND | 86 | 15-130 | | | | 1 |
| 2,4-Dinitrotoluene | 1,080 | 25.4 | ug/Kg dry | 1,410 | ND | 77 | 48-126 | | | | 1 |
| 2,6-Dichlorophenol | 1,000 | 16.9 | ug/Kg dry | 1,410 | ND | 71 | 41-117 | | | | 1 |
| 2,6-Dinitrotoluene | 1,040 | 16.9 | ug/Kg dry | 1,410 | ND | 74 | 46-124 | | | | 1 |
| 2-Chloronaphthalene | 1,000 | 16.9 | ug/Kg dry | 1,410 | ND | 71 | 41-114 | | | | 1 |
| 2-Chlorophenol | 985 | 16.9 | ug/Kg dry | 1,410 | ND | 70 | 34-121 | | | | 1 |
| 2-Methylnaphthalene | 974 | 25.4 | ug/Kg dry | 1,410 | ND | 69 | 38-122 | | | | 1 |
| 2-Methylphenol | 1,050 | 8.46 | ug/Kg dry | 1,410 | ND | 74 | 32-122 | | | | 1 |
| 2-Nitroaniline | 1,090 | 25.4 | ug/Kg dry | 1,410 | ND | 77 | 44-127 | | | | 1 |
| 2-Nitrophenol | 996 | 25.4 | ug/Kg dry | 1,410 | ND | 71 | 36-123 | | | | 1 |
| 3,3´-Dichlorobenzidine | 1,580 | 102 | ug/Kg dry | 2,260 | ND | 70 | 22-121 | | | | 1 |
| 3 & 4-Methylphenol | 1,080 | 33.9 | ug/Kg dry | 1,410 | ND | 77 | 34-119 | | | | 1 |
| 3-Nitroaniline | 1,080 | 25.4 | ug/Kg dry | 1,410 | ND | 77 | 33-119 | | | | 1 |
| 4,6-Dinitro-2-methylphenol | 1,130 | 677 | ug/Kg dry | 1,410 | ND | 80 | 29-132 | | | | 1 |
| 4-Bromophenyl-phenylether | 1,060 | 25.4 | ug/Kg dry | 1,410 | ND | 75 | 46-124 | | | | 1 |
| 4-Chloro-3-methylphenol | 1,040 | 16.9 | ug/Kg dry | 1,410 | ND | 74 | 45-122 | | | | 1 |
| 4-Chloroaniline | 1,000 | 25.4 | ug/Kg dry | 1,410 | ND | 71 | 17-106 | | | | 1 |
| 4-Chlorophenyl-phenylether | 1,020 | 25.4 | ug/Kg dry | 1,410 | ND | 73 | 45-121 | | | | 1 |
| 4-Nitroaniline | 1,030 | 33.9 | ug/Kg dry | 1,410 | ND | 73 | 35-115 | | | | 1 |
| 4-Nitrophenol | 1,090 | 677 | ug/Kg dry | 1,410 | ND | 77 | 30-132 | | | | 1 |
| Acenaphthene | 1,020 | 16.9 | ug/Kg dry | 1,410 | ND | 72 | 40-123 | | | | 1 |
| Acenaphthylene | 1,000 | 16.9 | ug/Kg dry | 1,410 | ND | 71 | 32-132 | | | | 1 |
| Aniline | 931 | 169 | ug/Kg dry | 1,410 | ND | 66 | 40-135 | | | | 1 |
| Anthracene | 1,070 | 25.4 | ug/Kg dry | 1,410 | ND | 76 | 47-123 | | | | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | 1,080 | 16.9 | ug/Kg dry | 1,410 | ND | 77 | 39-125 | | | | 1 |
| Benzidine | 1,180 | 2,820 | ug/Kg dry | 2,260 | ND | 52 | 29-140 | | | J | 1 |
| Benzo(a)anthracene | 1,040 | 25.4 | ug/Kg dry | 1,410 | ND | 74 | 49-126 | | | | 1 |
| Benzo(a)pyrene | 1,060 | 67.7 | ug/Kg dry | 1,410 | ND | 75 | 45-129 | | | | 1 |
| Benzo(b)fluoranthene | 1,060 | 25.4 | ug/Kg dry | 1,410 | ND | 75 | 45-132 | | | | 1 |
| Benzo(g,h,i)perylene | 1,080 | 33.9 | ug/Kg dry | 1,410 | ND | 76 | 43-134 | | | | 1 |
| Benzo(k)fluoranthene | 1,080 | 33.9 | ug/Kg dry | 1,410 | ND | 76 | 47-132 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0296 - SW3550*** *(Continued)*

**(B24J0296-MS1), Matrix Spike** (Continued) **Source: O24J0276-11** *Prepared: 10/08/2024 03:55 Analyzed: 10/14/2024 19:49*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzoic acid | 2,560 | 1,350 | ug/Kg dry | 4,510 | ND | 57 | 22-118 | | | | 1 |
| Benzyl alcohol | 1,080 | 25.4 | ug/Kg dry | 1,410 | ND | 76 | 29-122 | | | | 1 |
| Bis(2-chloroethoxy)methane | 1,020 | 16.9 | ug/Kg dry | 1,410 | ND | 72 | 36-121 | | | | 1 |
| Bis(2-chloroethyl)ether | 1,040 | 423 | ug/Kg dry | 1,410 | ND | 74 | 31-120 | | | | 1 |
| Bis(2-ethylhexyl)phthalate | 1,050 | 169 | ug/Kg dry | 1,410 | ND | 75 | 51-133 | | | | 1 |
| Butyl benzyl phthalate | 1,040 | 50.8 | ug/Kg dry | 1,410 | ND | 74 | 48-132 | | | | 1 |
| Carbazole | 1,070 | 16.9 | ug/Kg dry | 1,410 | ND | 76 | 50-123 | | | | 1 |
| Chrysene | 1,040 | 16.9 | ug/Kg dry | 1,410 | ND | 74 | 50-124 | | | | 1 |
| Dibenzo(a,h)anthracene | 1,060 | 25.4 | ug/Kg dry | 1,410 | ND | 75 | 45-134 | | | | 1 |
| Dibenzofuran | 1,000 | 25.4 | ug/Kg dry | 1,410 | ND | 71 | 44-120 | | | | 1 |
| Diethyl phthalate | 1,040 | 169 | ug/Kg dry | 1,410 | ND | 74 | 50-124 | | | | 1 |
| Dimethyl phthalate | 1,040 | 16.9 | ug/Kg dry | 1,410 | ND | 74 | 48-124 | | | | 1 |
| Di-n-butyl phthalate | 1,090 | 50.8 | ug/Kg dry | 1,410 | ND | 77 | 51-128 | | | | 1 |
| Di-n-octyl phthalate | 1,080 | 25.4 | ug/Kg dry | 1,410 | ND | 77 | 45-140 | | | | 1 |
| Fluoranthene | 1,070 | 25.4 | ug/Kg dry | 1,410 | ND | 76 | 50-127 | | | | 1 |
| Fluorene | 1,050 | 16.9 | ug/Kg dry | 1,410 | ND | 74 | 43-125 | | | | 1 |
| Hexachlorobenzene | 1,050 | 16.9 | ug/Kg dry | 1,410 | ND | 74 | 45-122 | | | | 1 |
| Hexachlorobutadiene | 843 | 33.9 | ug/Kg dry | 1,410 | ND | 60 | 32-123 | | | | 1 |
| Hexachlorocyclopentadiene | 926 | 677 | ug/Kg dry | 1,410 | ND | 66 | 31-133 | | | | 1 |
| Hexachloroethane | 790 | 33.9 | ug/Kg dry | 1,410 | ND | 56 | 28-117 | | | | 1 |
| Indeno(1,2,3-cd)pyrene | 1,060 | 25.4 | ug/Kg dry | 1,410 | ND | 75 | 45-133 | | | | 1 |
| Isophorone | 1,040 | 25.4 | ug/Kg dry | 1,410 | ND | 74 | 30-122 | | | | 1 |
| Naphthalene | 952 | 25.4 | ug/Kg dry | 1,410 | ND | 68 | 35-123 | | | | 1 |
| Nitrobenzene | 1,000 | 33.9 | ug/Kg dry | 1,410 | ND | 71 | 34-122 | | | | 1 |
| N-Nitrosodimethylamine | 975 | 33.9 | ug/Kg dry | 1,410 | ND | 69 | 23-120 | | | | 1 |
| N-Nitrosodi-n-propylamine | 1,100 | 50.8 | ug/Kg dry | 1,410 | ND | 78 | 36-120 | | | | 1 |
| N-Nitrosodiphenylamine | 1,040 | 25.4 | ug/Kg dry | 1,410 | ND | 74 | 38-127 | | | | 1 |
| N-Nitrosopyrrolidine | 1,080 | 25.4 | ug/Kg dry | 1,410 | ND | 76 | 45-126 | | | | 1 |
| Pentachlorophenol | 966 | 423 | ug/Kg dry | 1,410 | ND | 68 | 25-133 | | | | 1 |
| Phenanthrene | 1,080 | 25.4 | ug/Kg dry | 1,410 | ND | 77 | 50-121 | | | | 1 |
| Phenol | 1,040 | 33.9 | ug/Kg dry | 1,410 | ND | 74 | 34-121 | | | | 1 |
| Pyrene | 1,040 | 25.4 | ug/Kg dry | 1,410 | ND | 74 | 47-127 | | | | 1 |
| Pyridine | 722 | 677 | ug/Kg dry | 1,410 | ND | 51 | 7-72 | | | | 1 |
| *Surrogate: 2-Fluorophenol* | *1,330* | | *ug/Kg dry* | *1,880* | | *71* | *35-115* | | | | 1 |
| *Surrogate: Phenol-d5* | *1,430* | | *ug/Kg dry* | *1,880* | | *76* | *33-122* | | | | 1 |
| *Surrogate: Nitrobenzene-d5* | *1,420* | | *ug/Kg dry* | *1,880* | | *76* | *37-122* | | | | 1 |
| *Surrogate: 2-Fluorobiphenyl* | *1,380* | | *ug/Kg dry* | *1,880* | | *73* | *44-115* | | | | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | *1,460* | | *ug/Kg dry* | *1,880* | | *78* | *39-132* | | | | 1 |
| *Surrogate: 4-Terphenyl-d14* | *1,460* | | *ug/Kg dry* | *1,880* | | *78* | *54-127* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0296 - SW3550*** *(Continued)*

**(B24J0296-MSD1), Matrix Spike Dup** **Source: O24J0276-11** *Prepared: 10/08/2024 03:55 Analyzed: 10/14/2024 20:09*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 724 | 25.3 | ug/Kg dry | 1,410 | ND | 51 | 34-118 | 21 | 20 | P | 1 |
| 1,2-Dichlorobenzene | 619 | 25.3 | ug/Kg dry | 1,410 | ND | 44 | 33-117 | 30 | 20 | P | 1 |
| 1,3-Dichlorobenzene | 550 | 25.3 | ug/Kg dry | 1,410 | ND | 39 | 30-115 | 32 | 20 | P | 1 |
| 1,4-Dichlorobenzene | 585 | 25.3 | ug/Kg dry | 1,410 | ND | 42 | 31-115 | 31 | 20 | P | 1 |
| 1-Methylnaphthalene | 816 | 25.3 | ug/Kg dry | 1,410 | ND | 58 | 40-119 | 18 | 20 | | 1 |
| 2,4,5-Trichlorophenol | 812 | 16.9 | ug/Kg dry | 1,410 | ND | 58 | 41-124 | 22 | 20 | P | 1 |
| 2,4,6-Trichlorophenol | 780 | 16.9 | ug/Kg dry | 1,410 | ND | 55 | 39-126 | 26 | 20 | P | 1 |
| 2,4-Dichlorophenol | 793 | 16.9 | ug/Kg dry | 1,410 | ND | 56 | 40-122 | 23 | 20 | P | 1 |
| 2,4-Dimethylphenol | 779 | 50.7 | ug/Kg dry | 1,410 | ND | 55 | 30-127 | 22 | 20 | P | 1 |
| 2,4-Dinitrophenol | 1,010 | 422 | ug/Kg dry | 1,410 | ND | 72 | 15-130 | 18 | 20 | | 1 |
| 2,4-Dinitrotoluene | 887 | 25.3 | ug/Kg dry | 1,410 | ND | 63 | 48-126 | 20 | 20 | | 1 |
| 2,6-Dichlorophenol | 954 | 16.9 | ug/Kg dry | 1,410 | ND | 68 | 41-117 | 5 | 20 | | 1 |
| 2,6-Dinitrotoluene | 852 | 16.9 | ug/Kg dry | 1,410 | ND | 61 | 46-124 | 20 | 20 | | 1 |
| 2-Chloronaphthalene | 839 | 16.9 | ug/Kg dry | 1,410 | ND | 60 | 41-114 | 18 | 20 | | 1 |
| 2-Chlorophenol | 760 | 16.9 | ug/Kg dry | 1,410 | ND | 54 | 34-121 | 26 | 20 | P | 1 |
| 2-Methylnaphthalene | 800 | 25.3 | ug/Kg dry | 1,410 | ND | 57 | 38-122 | 20 | 20 | | 1 |
| 2-Methylphenol | 819 | 8.44 | ug/Kg dry | 1,410 | ND | 58 | 32-122 | 24 | 20 | P | 1 |
| 2-Nitroaniline | 854 | 25.3 | ug/Kg dry | 1,410 | ND | 61 | 44-127 | 24 | 20 | P | 1 |
| 2-Nitrophenol | 800 | 25.3 | ug/Kg dry | 1,410 | ND | 57 | 36-123 | 22 | 20 | P | 1 |
| 3,3´-Dichlorobenzidine | 1,330 | 101 | ug/Kg dry | 2,250 | ND | 59 | 22-121 | 17 | 20 | | 1 |
| 3 & 4-Methylphenol | 840 | 33.8 | ug/Kg dry | 1,410 | ND | 60 | 34-119 | 25 | 20 | P | 1 |
| 3-Nitroaniline | 870 | 25.3 | ug/Kg dry | 1,410 | ND | 62 | 33-119 | 22 | 20 | P | 1 |
| 4,6-Dinitro-2-methylphenol | 904 | 675 | ug/Kg dry | 1,410 | ND | 64 | 29-132 | 22 | 20 | P | 1 |
| 4-Bromophenyl-phenylether | 914 | 25.3 | ug/Kg dry | 1,410 | ND | 65 | 46-124 | 15 | 20 | | 1 |
| 4-Chloro-3-methylphenol | 833 | 16.9 | ug/Kg dry | 1,410 | ND | 59 | 45-122 | 22 | 20 | P | 1 |
| 4-Chloroaniline | 812 | 25.3 | ug/Kg dry | 1,410 | ND | 58 | 17-106 | 21 | 20 | P | 1 |
| 4-Chlorophenyl-phenylether | 848 | 25.3 | ug/Kg dry | 1,410 | ND | 60 | 45-121 | 19 | 20 | | 1 |
| 4-Nitroaniline | 872 | 33.8 | ug/Kg dry | 1,410 | ND | 62 | 35-115 | 17 | 20 | | 1 |
| 4-Nitrophenol | 891 | 675 | ug/Kg dry | 1,410 | ND | 63 | 30-132 | 20 | 20 | | 1 |
| Acenaphthene | 852 | 16.9 | ug/Kg dry | 1,410 | ND | 61 | 40-123 | 18 | 20 | | 1 |
| Acenaphthylene | 839 | 16.9 | ug/Kg dry | 1,410 | ND | 60 | 32-132 | 18 | 20 | | 1 |
| Aniline | 750 | 169 | ug/Kg dry | 1,410 | ND | 53 | 40-135 | 22 | 20 | P | 1 |
| Anthracene | 905 | 25.3 | ug/Kg dry | 1,410 | ND | 64 | 47-123 | 17 | 20 | | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | 894 | 16.9 | ug/Kg dry | 1,410 | ND | 63 | 39-125 | 19 | 20 | | 1 |
| Benzidine | 884 | 2,810 | ug/Kg dry | 2,250 | ND | 39 | 29-140 | 29 | 20 | P, J | 1 |
| Benzo(a)anthracene | 905 | 25.3 | ug/Kg dry | 1,410 | ND | 64 | 49-126 | 14 | 20 | | 1 |
| Benzo(a)pyrene | 907 | 67.5 | ug/Kg dry | 1,410 | ND | 64 | 45-129 | 16 | 20 | | 1 |
| Benzo(b)fluoranthene | 916 | 25.3 | ug/Kg dry | 1,410 | ND | 65 | 45-132 | 15 | 20 | | 1 |
| Benzo(g,h,i)perylene | 923 | 33.8 | ug/Kg dry | 1,410 | ND | 66 | 43-134 | 15 | 20 | | 1 |
| Benzo(k)fluoranthene | 911 | 33.8 | ug/Kg dry | 1,410 | ND | 65 | 47-132 | 17 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0296 - SW3550*** *(Continued)*

**(B24J0296-MSD1), Matrix Spike Dup** (Continue **Source: O24J0276-11** *Prepared: 10/08/2024 03:55 Analyzed: 10/14/2024 20:09*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzoic acid | 2,910 | 1,350 | ug/Kg dry | 4,500 | ND | 65 | 22-118 | 13 | 20 | | 1 |
| Benzyl alcohol | 827 | 25.3 | ug/Kg dry | 1,410 | ND | 59 | 29-122 | 26 | 20 | P | 1 |
| Bis(2-chloroethoxy)methane | 821 | 16.9 | ug/Kg dry | 1,410 | ND | 58 | 36-121 | 21 | 20 | P | 1 |
| Bis(2-chloroethyl)ether | 760 | 422 | ug/Kg dry | 1,410 | ND | 54 | 31-120 | 31 | 20 | P | 1 |
| Bis(2-ethylhexyl)phthalate | 912 | 169 | ug/Kg dry | 1,410 | ND | 65 | 51-133 | 14 | 20 | | 1 |
| Butyl benzyl phthalate | 865 | 50.7 | ug/Kg dry | 1,410 | ND | 61 | 48-132 | 18 | 20 | | 1 |
| Carbazole | 859 | 16.9 | ug/Kg dry | 1,410 | ND | 61 | 50-123 | 22 | 20 | P | 1 |
| Chrysene | 915 | 16.9 | ug/Kg dry | 1,410 | ND | 65 | 50-124 | 13 | 20 | | 1 |
| Dibenzo(a,h)anthracene | 912 | 25.3 | ug/Kg dry | 1,410 | ND | 65 | 45-134 | 15 | 20 | | 1 |
| Dibenzofuran | 836 | 25.3 | ug/Kg dry | 1,410 | ND | 59 | 44-120 | 18 | 20 | | 1 |
| Diethyl phthalate | 834 | 169 | ug/Kg dry | 1,410 | ND | 59 | 50-124 | 22 | 20 | P | 1 |
| Dimethyl phthalate | 829 | 16.9 | ug/Kg dry | 1,410 | ND | 59 | 48-124 | 23 | 20 | P | 1 |
| Di-n-butyl phthalate | 901 | 50.7 | ug/Kg dry | 1,410 | ND | 64 | 51-128 | 19 | 20 | | 1 |
| Di-n-octyl phthalate | 911 | 25.3 | ug/Kg dry | 1,410 | ND | 65 | 45-140 | 17 | 20 | | 1 |
| Fluoranthene | 917 | 25.3 | ug/Kg dry | 1,410 | ND | 65 | 50-127 | 16 | 20 | | 1 |
| Fluorene | 874 | 16.9 | ug/Kg dry | 1,410 | ND | 62 | 43-125 | 18 | 20 | | 1 |
| Hexachlorobenzene | 923 | 16.9 | ug/Kg dry | 1,410 | ND | 66 | 45-122 | 13 | 20 | | 1 |
| Hexachlorobutadiene | 687 | 33.8 | ug/Kg dry | 1,410 | ND | 49 | 32-123 | 20 | 20 | | 1 |
| Hexachlorocyclopentadiene | 763 | 675 | ug/Kg dry | 1,410 | ND | 54 | 31-133 | 19 | 20 | | 1 |
| Hexachloroethane | 595 | 33.8 | ug/Kg dry | 1,410 | ND | 42 | 28-117 | 28 | 20 | P | 1 |
| Indeno(1,2,3-cd)pyrene | 908 | 25.3 | ug/Kg dry | 1,410 | ND | 65 | 45-133 | 15 | 20 | | 1 |
| Isophorone | 833 | 25.3 | ug/Kg dry | 1,410 | ND | 59 | 30-122 | 22 | 20 | P | 1 |
| Naphthalene | 762 | 25.3 | ug/Kg dry | 1,410 | ND | 54 | 35-123 | 22 | 20 | P | 1 |
| Nitrobenzene | 790 | 33.8 | ug/Kg dry | 1,410 | ND | 56 | 34-122 | 23 | 20 | P | 1 |
| N-Nitrosodimethylamine | 786 | 33.8 | ug/Kg dry | 1,410 | ND | 56 | 23-120 | 21 | 20 | P | 1 |
| N-Nitrosodi-n-propylamine | 836 | 50.7 | ug/Kg dry | 1,410 | ND | 59 | 36-120 | 27 | 20 | P | 1 |
| N-Nitrosodiphenylamine | 866 | 25.3 | ug/Kg dry | 1,410 | ND | 62 | 38-127 | 18 | 20 | | 1 |
| N-Nitrosopyrrolidine | 986 | 25.3 | ug/Kg dry | 1,410 | ND | 70 | 45-126 | 9 | 20 | | 1 |
| Pentachlorophenol | 775 | 422 | ug/Kg dry | 1,410 | ND | 55 | 25-133 | 22 | 20 | P | 1 |
| Phenanthrene | 910 | 25.3 | ug/Kg dry | 1,410 | ND | 65 | 50-121 | 17 | 20 | | 1 |
| Phenol | 811 | 33.8 | ug/Kg dry | 1,410 | ND | 58 | 34-121 | 25 | 20 | P | 1 |
| Pyrene | 895 | 25.3 | ug/Kg dry | 1,410 | ND | 64 | 47-127 | 15 | 20 | | 1 |
| Pyridine | 577 | 675 | ug/Kg dry | 1,410 | ND | 41 | 7-72 | 22 | 20 | P, J | 1 |
| *Surrogate: 2-Fluorophenol* | *1,220* | | *ug/Kg dry* | *1,880* | | *65* | *35-115* | | | | 1 |
| *Surrogate: Phenol-d5* | *1,310* | | *ug/Kg dry* | *1,880* | | *70* | *33-122* | | | | 1 |
| *Surrogate: Nitrobenzene-d5* | *1,330* | | *ug/Kg dry* | *1,880* | | *71* | *37-122* | | | | 1 |
| *Surrogate: 2-Fluorobiphenyl* | *1,310* | | *ug/Kg dry* | *1,880* | | *70* | *44-115* | | | | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | *1,360* | | *ug/Kg dry* | *1,880* | | *73* | *39-132* | | | | 1 |
| *Surrogate: 4-Terphenyl-d14* | *1,380* | | *ug/Kg dry* | *1,880* | | *74* | *54-127* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0527 - SW3550*** | | | | | | | | | | | |
| **(B24J0527-BLK1), Blank** | | | | *Prepared: 10/10/2024 11:25* | | | *Analyzed: 10/11/2024 13:09* | | | | |
| 1-Methylnaphthalene | <7.78 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| 2-Methylnaphthalene | <7.78 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Acenaphthene | <7.78 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Acenaphthylene | <9.73 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Anthracene | <9.73 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(a)anthracene | <7.78 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(a)pyrene | <7.78 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(b)fluoranthene | <9.73 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(g,h,i)perylene | <9.73 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(k)fluoranthene | <9.73 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Chrysene | <7.78 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Dibenzo(a,h)anthracene | <9.73 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Fluoranthene | <9.73 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Fluorene | <7.78 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Indeno(1,2,3-cd)pyrene | <9.73 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Naphthalene | <9.73 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Phenanthrene | <7.78 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| Pyrene | <9.73 | 15.6 | ug/Kg wet | | | | | | | U | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | *1,490* | | *ug/Kg wet* | *1,620* | | *92* | *57-119* | | | | 1 |
| *Surrogate: Fluoranthene-d10* | *1,380* | | *ug/Kg wet* | *1,620* | | *85* | *54-133* | | | | 1 |
| **(B24J0527-BS1), LCS** | | | | *Prepared: 10/10/2024 11:25* | | | *Analyzed: 10/11/2024 13:30* | | | | |
| 1-Methylnaphthalene | 1,650 | 16.0 | ug/Kg wet | 1,670 | | 99 | 43-111 | | | | 1 |
| 2-Methylnaphthalene | 1,540 | 16.0 | ug/Kg wet | 1,670 | | 92 | 39-114 | | | | 1 |
| Acenaphthene | 1,670 | 16.0 | ug/Kg wet | 1,670 | | 100 | 44-111 | | | | 1 |
| Acenaphthylene | 1,630 | 16.0 | ug/Kg wet | 1,670 | | 98 | 39-116 | | | | 1 |
| Anthracene | 1,520 | 16.0 | ug/Kg wet | 1,670 | | 91 | 50-114 | | | | 1 |
| Benzo(a)anthracene | 1,330 | 16.0 | ug/Kg wet | 1,670 | | 80 | 54-122 | | | | 1 |
| Benzo(a)pyrene | 1,620 | 16.0 | ug/Kg wet | 1,670 | | 97 | 50-125 | | | | 1 |
| Benzo(b)fluoranthene | 1,690 | 16.0 | ug/Kg wet | 1,670 | | 102 | 53-128 | | | | 1 |
| Benzo(g,h,i)perylene | 1,440 | 16.0 | ug/Kg wet | 1,670 | | 86 | 49-127 | | | | 1 |
| Benzo(k)fluoranthene | 1,730 | 16.0 | ug/Kg wet | 1,670 | | 104 | 56-123 | | | | 1 |
| Chrysene | 1,620 | 16.0 | ug/Kg wet | 1,670 | | 97 | 57-118 | | | | 1 |
| Dibenzo(a,h)anthracene | 1,440 | 16.0 | ug/Kg wet | 1,670 | | 87 | 50-129 | | | | 1 |
| Fluoranthene | 1,570 | 16.0 | ug/Kg wet | 1,670 | | 94 | 55-119 | | | | 1 |
| Fluorene | 1,690 | 16.0 | ug/Kg wet | 1,670 | | 101 | 47-114 | | | | 1 |
| Indeno(1,2,3-cd)pyrene | 1,360 | 16.0 | ug/Kg wet | 1,670 | | 82 | 49-130 | | | | 1 |
| Naphthalene | 1,660 | 16.0 | ug/Kg wet | 1,670 | | 100 | 38-111 | | | | 1 |
| Phenanthrene | 1,640 | 16.0 | ug/Kg wet | 1,670 | | 98 | 49-113 | | | | 1 |
| Pyrene | 1,640 | 16.0 | ug/Kg wet | 1,670 | | 98 | 55-117 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Utz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0527 - SW3550*** *(Continued)* | | | | | | | | | | | |
| **(B24J0527-BS1), LCS** (Continued) | | | | *Prepared: 10/10/2024 11:25* | | | *Analyzed: 10/11/2024 13:30* | | | | |
| *Surrogate: 2-Methylnaphthalene-d10* | *1,520* | | *ug/Kg wet* | *1,670* | | *91* | *57-119* | | | | 1 |
| *Surrogate: Fluoranthene-d10* | *1,420* | | *ug/Kg wet* | *1,670* | | *85* | *54-133* | | | | 1 |
| **(B24J0527-MS1), Matrix Spike** | | **Source: O24J0276-11** | | *Prepared: 10/10/2024 11:25* | | | *Analyzed: 10/11/2024 13:51* | | | | |
| 1-Methylnaphthalene | 1,790 | 17.5 | ug/Kg dry | 1,820 | ND | 98 | 43-111 | | | | 1 |
| 2-Methylnaphthalene | 1,670 | 17.5 | ug/Kg dry | 1,820 | ND | 92 | 39-114 | | | | 1 |
| Acenaphthene | 1,820 | 17.5 | ug/Kg dry | 1,820 | ND | 100 | 44-111 | | | | 1 |
| Acenaphthylene | 1,790 | 17.5 | ug/Kg dry | 1,820 | ND | 98 | 39-116 | | | | 1 |
| Anthracene | 1,640 | 17.5 | ug/Kg dry | 1,820 | ND | 90 | 50-114 | | | | 1 |
| Benzo(a)anthracene | 1,440 | 17.5 | ug/Kg dry | 1,820 | ND | 79 | 54-122 | | | | 1 |
| Benzo(a)pyrene | 1,780 | 17.5 | ug/Kg dry | 1,820 | ND | 97 | 50-125 | | | | 1 |
| Benzo(b)fluoranthene | 1,840 | 17.5 | ug/Kg dry | 1,820 | ND | 101 | 53-128 | | | | 1 |
| Benzo(g,h,i)perylene | 1,550 | 17.5 | ug/Kg dry | 1,820 | ND | 85 | 49-127 | | | | 1 |
| Benzo(k)fluoranthene | 1,920 | 17.5 | ug/Kg dry | 1,820 | ND | 105 | 56-123 | | | | 1 |
| Chrysene | 1,670 | 17.5 | ug/Kg dry | 1,820 | ND | 91 | 57-118 | | | | 1 |
| Dibenzo(a,h)anthracene | 1,560 | 17.5 | ug/Kg dry | 1,820 | ND | 86 | 50-129 | | | | 1 |
| Fluoranthene | 1,690 | 17.5 | ug/Kg dry | 1,820 | ND | 92 | 55-119 | | | | 1 |
| Fluorene | 1,820 | 17.5 | ug/Kg dry | 1,820 | ND | 100 | 47-114 | | | | 1 |
| Indeno(1,2,3-cd)pyrene | 1,470 | 17.5 | ug/Kg dry | 1,820 | ND | 80 | 49-130 | | | | 1 |
| Naphthalene | 1,810 | 17.5 | ug/Kg dry | 1,820 | ND | 99 | 38-111 | | | | 1 |
| Phenanthrene | 1,770 | 17.5 | ug/Kg dry | 1,820 | ND | 97 | 49-113 | | | | 1 |
| Pyrene | 1,760 | 17.5 | ug/Kg dry | 1,820 | ND | 97 | 55-117 | | | | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | *1,660* | | *ug/Kg dry* | *1,820* | | *91* | *57-119* | | | | 1 |
| *Surrogate: Fluoranthene-d10* | *1,520* | | *ug/Kg dry* | *1,820* | | *83* | *54-133* | | | | 1 |
| **(B24J0527-MSD1), Matrix Spike Dup** | | **Source: O24J0276-11** | | *Prepared: 10/10/2024 11:25* | | | *Analyzed: 10/11/2024 14:13* | | | | |
| 1-Methylnaphthalene | 1,750 | 16.9 | ug/Kg dry | 1,760 | ND | 99 | 43-111 | 2 | 40 | | 1 |
| 2-Methylnaphthalene | 1,640 | 16.9 | ug/Kg dry | 1,760 | ND | 93 | 39-114 | 2 | 40 | | 1 |
| Acenaphthene | 1,800 | 16.9 | ug/Kg dry | 1,760 | ND | 102 | 44-111 | 1 | 40 | | 1 |
| Acenaphthylene | 1,770 | 16.9 | ug/Kg dry | 1,760 | ND | 100 | 39-116 | 0.8 | 40 | | 1 |
| Anthracene | 1,610 | 16.9 | ug/Kg dry | 1,760 | ND | 91 | 50-114 | 2 | 40 | | 1 |
| Benzo(a)anthracene | 1,380 | 16.9 | ug/Kg dry | 1,760 | ND | 79 | 54-122 | 4 | 40 | | 1 |
| Benzo(a)pyrene | 1,670 | 16.9 | ug/Kg dry | 1,760 | ND | 95 | 50-125 | 6 | 40 | | 1 |
| Benzo(b)fluoranthene | 1,770 | 16.9 | ug/Kg dry | 1,760 | ND | 100 | 53-128 | 4 | 40 | | 1 |
| Benzo(g,h,i)perylene | 1,470 | 16.9 | ug/Kg dry | 1,760 | ND | 83 | 49-127 | 5 | 40 | | 1 |
| Benzo(k)fluoranthene | 1,760 | 16.9 | ug/Kg dry | 1,760 | ND | 100 | 56-123 | 9 | 40 | | 1 |
| Chrysene | 1,690 | 16.9 | ug/Kg dry | 1,760 | ND | 96 | 57-118 | 1 | 40 | | 1 |
| Dibenzo(a,h)anthracene | 1,490 | 16.9 | ug/Kg dry | 1,760 | ND | 84 | 50-129 | 5 | 40 | | 1 |
| Fluoranthene | 1,640 | 16.9 | ug/Kg dry | 1,760 | ND | 93 | 55-119 | 3 | 40 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0527 - SW3550*** *(Continued)* | | | | | | | | | | | |
| **(B24J0527-MSD1), Matrix Spike Dup** (Continue | | | **Source: O24J0276-11** | *Prepared: 10/10/2024 11:25* | | | *Analyzed: 10/11/2024 14:13* | | | | |
| Fluorene | 1,810 | 16.9 | ug/Kg dry | 1,760 | ND | 103 | 47-114 | 0.8 | 40 | | 1 |
| Indeno(1,2,3-cd)pyrene | 1,400 | 16.9 | ug/Kg dry | 1,760 | ND | 80 | 49-130 | 4 | 40 | | 1 |
| Naphthalene | 1,760 | 16.9 | ug/Kg dry | 1,760 | ND | 100 | 38-111 | 3 | 40 | | 1 |
| Phenanthrene | 1,730 | 16.9 | ug/Kg dry | 1,760 | ND | 98 | 49-113 | 3 | 40 | | 1 |
| Pyrene | 1,680 | 16.9 | ug/Kg dry | 1,760 | ND | 95 | 55-117 | 5 | 40 | | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | *1,550* | | *ug/Kg dry* | *1,760* | | *88* | *57-119* | | | | 1 |
| *Surrogate: Fluoranthene-d10* | *1,430* | | *ug/Kg dry* | *1,760* | | *81* | *54-133* | | | | 1 |
| ***Batch: B24J0789 - SW3550*** | | | | | | | | | | | |
| **(B24J0789-BLK1), Blank** | | | | *Prepared: 10/15/2024 11:40* | | | *Analyzed: 10/16/2024 16:47* | | | | |
| 1,2,4-Trichlorobenzene | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 1,2-Dichlorobenzene | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 1,3-Dichlorobenzene | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 1,4-Dichlorobenzene | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 1-Methylnaphthalene | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 2,4,5-Trichlorophenol | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 2,4,6-Trichlorophenol | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 2,4-Dichlorophenol | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 2,4-Dimethylphenol | <29.9 | 59.9 | ug/Kg wet | | | | | | | U | 1 |
| 2,4-Dinitrophenol | <299 | 499 | ug/Kg wet | | | | | | | U | 1 |
| 2,4-Dinitrotoluene | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 2,6-Dichlorophenol | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 2,6-Dinitrotoluene | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 2-Chloronaphthalene | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 2-Chlorophenol | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 2-Methylnaphthalene | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 2-Methylphenol | <4.99 | 9.98 | ug/Kg wet | | | | | | | U | 1 |
| 2-Nitroaniline | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 2-Nitrophenol | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 3,3´-Dichlorobenzidine | <59.9 | 120 | ug/Kg wet | | | | | | | U | 1 |
| 3 & 4-Methylphenol | <20.0 | 39.9 | ug/Kg wet | | | | | | | U | 1 |
| 3-Nitroaniline | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 4,6-Dinitro-2-methylphenol | <399 | 799 | ug/Kg wet | | | | | | | U | 1 |
| 4-Bromophenyl-phenylether | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 4-Chloro-3-methylphenol | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| 4-Chloroaniline | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 4-Chlorophenyl-phenylether | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| 4-Nitroaniline | <20.0 | 39.9 | ug/Kg wet | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0789 - SW3550*** *(Continued)*

**(B24J0789-BLK1), Blank** (Continued) *Prepared: 10/15/2024 11:40 Analyzed: 10/16/2024 16:47*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Nitrophenol | <399 | 799 | ug/Kg wet | | | | | | | U | 1 |
| Acenaphthene | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Acenaphthylene | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Aniline | <120 | 200 | ug/Kg wet | | | | | | | U | 1 |
| Anthracene | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Benzidine | <799 | 3,330 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(a)anthracene | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(a)pyrene | <39.9 | 79.9 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(b)fluoranthene | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(g,h,i)perylene | <20.0 | 39.9 | ug/Kg wet | | | | | | | U | 1 |
| Benzo(k)fluoranthene | <20.0 | 39.9 | ug/Kg wet | | | | | | | U | 1 |
| Benzoic acid | <399 | 1,600 | ug/Kg wet | | | | | | | U | 1 |
| Benzyl alcohol | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Bis(2-chloroethoxy)methane | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Bis(2-chloroethyl)ether | <399 | 499 | ug/Kg wet | | | | | | | U | 1 |
| Bis(2-ethylhexyl)phthalate | 134 | 200 | ug/Kg wet | | | | | | | J | 1 |
| Butyl benzyl phthalate | <29.9 | 59.9 | ug/Kg wet | | | | | | | U | 1 |
| Carbazole | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Chrysene | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Dibenzo(a,h)anthracene | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Dibenzofuran | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Diethyl phthalate | <120 | 200 | ug/Kg wet | | | | | | | U | 1 |
| Dimethyl phthalate | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Di-n-butyl phthalate | <29.9 | 59.9 | ug/Kg wet | | | | | | | U | 1 |
| Di-n-octyl phthalate | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Fluoranthene | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Fluorene | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Hexachlorobenzene | <9.98 | 20.0 | ug/Kg wet | | | | | | | U | 1 |
| Hexachlorobutadiene | <20.0 | 39.9 | ug/Kg wet | | | | | | | U | 1 |
| Hexachlorocyclopentadiene | <399 | 799 | ug/Kg wet | | | | | | | U | 1 |
| Hexachloroethane | <20.0 | 39.9 | ug/Kg wet | | | | | | | U | 1 |
| Indeno(1,2,3-cd)pyrene | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Isophorone | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Naphthalene | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Nitrobenzene | <20.0 | 39.9 | ug/Kg wet | | | | | | | U | 1 |
| N-Nitrosodimethylamine | <20.0 | 39.9 | ug/Kg wet | | | | | | | U | 1 |
| N-Nitrosodi-n-propylamine | <29.9 | 59.9 | ug/Kg wet | | | | | | | U | 1 |
| N-Nitrosodiphenylamine | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| N-Nitrosopyrrolidine | <20.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

### *Batch: B24J0789 - SW3550 (Continued)*

**(B24J0789-BLK1), Blank** (Continued) *Prepared: 10/15/2024 11:40 Analyzed: 10/16/2024 16:47*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | <299 | 499 | ug/Kg wet | | | | | | | U | 1 |
| Phenanthrene | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Phenol | <20.0 | 39.9 | ug/Kg wet | | | | | | | U | 1 |
| Pyrene | <15.0 | 29.9 | ug/Kg wet | | | | | | | U | 1 |
| Pyridine | <399 | 799 | ug/Kg wet | | | | | | | U | 1 |
| *Surrogate: 2-Fluorophenol* | *1,630* | | *ug/Kg wet* | *2,220* | | *73* | *35-115* | | | | 1 |
| *Surrogate: Phenol-d5* | *1,750* | | *ug/Kg wet* | *2,220* | | *79* | *33-122* | | | | 1 |
| *Surrogate: Nitrobenzene-d5* | *1,730* | | *ug/Kg wet* | *2,220* | | *78* | *37-122* | | | | 1 |
| *Surrogate: 2-Fluorobiphenyl* | *1,770* | | *ug/Kg wet* | *2,220* | | *80* | *44-115* | | | | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | *1,790* | | *ug/Kg wet* | *2,220* | | *81* | *39-132* | | | | 1 |
| *Surrogate: 4-Terphenyl-d14* | *1,860* | | *ug/Kg wet* | *2,220* | | *84* | *54-127* | | | | 1 |

**(B24J0789-BS1), LCS** *Prepared: 10/15/2024 11:40 Analyzed: 10/16/2024 17:08*

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 1,210 | 29.8 | ug/Kg wet | 1,660 | | 73 | 34-118 | | | | 1 |
| 1,2-Dichlorobenzene | 1,220 | 29.8 | ug/Kg wet | 1,660 | | 74 | 33-117 | | | | 1 |
| 1,3-Dichlorobenzene | 1,200 | 29.8 | ug/Kg wet | 1,660 | | 72 | 30-115 | | | | 1 |
| 1,4-Dichlorobenzene | 1,210 | 29.8 | ug/Kg wet | 1,660 | | 73 | 31-115 | | | | 1 |
| 1-Methylnaphthalene | 1,270 | 29.8 | ug/Kg wet | 1,660 | | 76 | 40-119 | | | | 1 |
| 2,4,5-Trichlorophenol | 1,390 | 19.9 | ug/Kg wet | 1,660 | | 84 | 41-124 | | | | 1 |
| 2,4,6-Trichlorophenol | 1,340 | 19.9 | ug/Kg wet | 1,660 | | 81 | 39-126 | | | | 1 |
| 2,4-Dichlorophenol | 1,280 | 19.9 | ug/Kg wet | 1,660 | | 77 | 40-122 | | | | 1 |
| 2,4-Dimethylphenol | 1,280 | 59.7 | ug/Kg wet | 1,660 | | 77 | 30-127 | | | | 1 |
| 2,4-Dinitrophenol | 1,540 | 497 | ug/Kg wet | 1,660 | | 93 | 15-130 | | | | 1 |
| 2,4-Dinitrotoluene | 1,460 | 29.8 | ug/Kg wet | 1,660 | | 88 | 48-126 | | | | 1 |
| 2,6-Dichlorophenol | 1,260 | 19.9 | ug/Kg wet | 1,660 | | 76 | 41-117 | | | | 1 |
| 2,6-Dinitrotoluene | 1,440 | 19.9 | ug/Kg wet | 1,660 | | 87 | 46-124 | | | | 1 |
| 2-Chloronaphthalene | 1,390 | 19.9 | ug/Kg wet | 1,660 | | 84 | 41-114 | | | | 1 |
| 2-Chlorophenol | 1,250 | 19.9 | ug/Kg wet | 1,660 | | 75 | 34-121 | | | | 1 |
| 2-Methylnaphthalene | 1,300 | 29.8 | ug/Kg wet | 1,660 | | 78 | 38-122 | | | | 1 |
| 2-Methylphenol | 1,320 | 9.94 | ug/Kg wet | 1,660 | | 80 | 32-122 | | | | 1 |
| 2-Nitroaniline | 1,490 | 29.8 | ug/Kg wet | 1,660 | | 90 | 44-127 | | | | 1 |
| 2-Nitrophenol | 1,290 | 29.8 | ug/Kg wet | 1,660 | | 78 | 36-123 | | | | 1 |
| 3,3´-Dichlorobenzidine | 2,180 | 119 | ug/Kg wet | 2,650 | | 82 | 22-121 | | | | 1 |
| 3 & 4-Methylphenol | 1,350 | 39.8 | ug/Kg wet | 1,660 | | 82 | 34-119 | | | | 1 |
| 3-Nitroaniline | 1,530 | 29.8 | ug/Kg wet | 1,660 | | 92 | 33-119 | | | | 1 |
| 4,6-Dinitro-2-methylphenol | 1,540 | 795 | ug/Kg wet | 1,660 | | 93 | 29-132 | | | | 1 |
| 4-Bromophenyl-phenylether | 1,440 | 29.8 | ug/Kg wet | 1,660 | | 87 | 46-124 | | | | 1 |
| 4-Chloro-3-methylphenol | 1,400 | 19.9 | ug/Kg wet | 1,660 | | 84 | 45-122 | | | | 1 |
| 4-Chloroaniline | 1,300 | 29.8 | ug/Kg wet | 1,660 | | 79 | 17-106 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0789 - SW3550*** *(Continued)*

**(B24J0789-BS1), LCS** (Continued) *Prepared: 10/15/2024 11:40 Analyzed: 10/16/2024 17:08*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorophenyl-phenylether | 1,430 | 29.8 | ug/Kg wet | 1,660 | | 86 | 45-121 | | | | 1 |
| 4-Nitroaniline | 1,510 | 39.8 | ug/Kg wet | 1,660 | | 91 | 35-115 | | | | 1 |
| 4-Nitrophenol | 1,550 | 795 | ug/Kg wet | 1,660 | | 94 | 30-132 | | | | 1 |
| Acenaphthene | 1,400 | 19.9 | ug/Kg wet | 1,660 | | 85 | 40-123 | | | | 1 |
| Acenaphthylene | 1,410 | 19.9 | ug/Kg wet | 1,660 | | 85 | 32-132 | | | | 1 |
| Aniline | 1,180 | 199 | ug/Kg wet | 1,660 | | 71 | 40-135 | | | | 1 |
| Anthracene | 1,490 | 29.8 | ug/Kg wet | 1,660 | | 90 | 47-123 | | | | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | 1,520 | 19.9 | ug/Kg wet | 1,660 | | 91 | 39-125 | | | | 1 |
| Benzidine | 1,540 | 3,310 | ug/Kg wet | 2,650 | | 58 | 29-140 | | | J | 1 |
| Benzo(a)anthracene | 1,470 | 29.8 | ug/Kg wet | 1,660 | | 88 | 49-126 | | | | 1 |
| Benzo(a)pyrene | 1,470 | 79.5 | ug/Kg wet | 1,660 | | 88 | 45-129 | | | | 1 |
| Benzo(b)fluoranthene | 1,470 | 29.8 | ug/Kg wet | 1,660 | | 89 | 45-132 | | | | 1 |
| Benzo(g,h,i)perylene | 1,460 | 39.8 | ug/Kg wet | 1,660 | | 88 | 43-134 | | | | 1 |
| Benzo(k)fluoranthene | 1,450 | 39.8 | ug/Kg wet | 1,660 | | 88 | 47-132 | | | | 1 |
| Benzoic acid | 2,440 | 1,590 | ug/Kg wet | 5,300 | | 46 | 22-118 | | | | 1 |
| Benzyl alcohol | 1,310 | 29.8 | ug/Kg wet | 1,660 | | 79 | 29-122 | | | | 1 |
| Bis(2-chloroethoxy)methane | 1,380 | 19.9 | ug/Kg wet | 1,660 | | 83 | 36-121 | | | | 1 |
| Bis(2-chloroethyl)ether | 1,290 | 497 | ug/Kg wet | 1,660 | | 78 | 31-120 | | | | 1 |
| Bis(2-ethylhexyl)phthalate | 1,510 | 199 | ug/Kg wet | 1,660 | | 91 | 51-133 | | | B | 1 |
| Butyl benzyl phthalate | 1,490 | 59.7 | ug/Kg wet | 1,660 | | 90 | 48-132 | | | | 1 |
| Carbazole | 1,460 | 19.9 | ug/Kg wet | 1,660 | | 88 | 50-123 | | | | 1 |
| Chrysene | 1,460 | 19.9 | ug/Kg wet | 1,660 | | 88 | 50-124 | | | | 1 |
| Dibenzo(a,h)anthracene | 1,500 | 29.8 | ug/Kg wet | 1,660 | | 91 | 45-134 | | | | 1 |
| Dibenzofuran | 1,370 | 29.8 | ug/Kg wet | 1,660 | | 83 | 44-120 | | | | 1 |
| Diethyl phthalate | 1,470 | 199 | ug/Kg wet | 1,660 | | 89 | 50-124 | | | | 1 |
| Dimethyl phthalate | 1,460 | 19.9 | ug/Kg wet | 1,660 | | 88 | 48-124 | | | | 1 |
| Di-n-butyl phthalate | 1,510 | 59.7 | ug/Kg wet | 1,660 | | 91 | 51-128 | | | | 1 |
| Di-n-octyl phthalate | 1,450 | 29.8 | ug/Kg wet | 1,660 | | 88 | 45-140 | | | | 1 |
| Fluoranthene | 1,480 | 29.8 | ug/Kg wet | 1,660 | | 90 | 50-127 | | | | 1 |
| Fluorene | 1,430 | 19.9 | ug/Kg wet | 1,660 | | 87 | 43-125 | | | | 1 |
| Hexachlorobenzene | 1,410 | 19.9 | ug/Kg wet | 1,660 | | 85 | 45-122 | | | | 1 |
| Hexachlorobutadiene | 1,210 | 39.8 | ug/Kg wet | 1,660 | | 73 | 32-123 | | | | 1 |
| Hexachlorocyclopentadiene | 1,310 | 795 | ug/Kg wet | 1,660 | | 79 | 31-133 | | | | 1 |
| Hexachloroethane | 1,250 | 39.8 | ug/Kg wet | 1,660 | | 75 | 28-117 | | | | 1 |
| Indeno(1,2,3-cd)pyrene | 1,450 | 29.8 | ug/Kg wet | 1,660 | | 87 | 45-133 | | | | 1 |
| Isophorone | 1,400 | 29.8 | ug/Kg wet | 1,660 | | 84 | 30-122 | | | | 1 |
| Naphthalene | 1,300 | 29.8 | ug/Kg wet | 1,660 | | 79 | 35-123 | | | | 1 |
| Nitrobenzene | 1,370 | 39.8 | ug/Kg wet | 1,660 | | 82 | 34-122 | | | | 1 |
| N-Nitrosodimethylamine | 1,270 | 39.8 | ug/Kg wet | 1,660 | | 77 | 23-120 | | | | 1 |
| N-Nitrosodi-n-propylamine | 1,390 | 59.7 | ug/Kg wet | 1,660 | | 84 | 36-120 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

### *Batch: B24J0789 - SW3550 (Continued)*

**(B24J0789-BS1), LCS** (Continued) *Prepared: 10/15/2024 11:40 Analyzed: 10/16/2024 17:08*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N-Nitrosodiphenylamine | 1,430 | 29.8 | ug/Kg wet | 1,660 | | 86 | 38-127 | | | | 1 |
| N-Nitrosopyrrolidine | 1,330 | 29.8 | ug/Kg wet | 1,660 | | 80 | 45-126 | | | | 1 |
| Pentachlorophenol | 1,300 | 497 | ug/Kg wet | 1,660 | | 78 | 25-133 | | | | 1 |
| Phenanthrene | 1,480 | 29.8 | ug/Kg wet | 1,660 | | 89 | 50-121 | | | | 1 |
| Phenol | 1,320 | 39.8 | ug/Kg wet | 1,660 | | 80 | 34-121 | | | | 1 |
| Pyrene | 1,470 | 29.8 | ug/Kg wet | 1,660 | | 89 | 47-127 | | | | 1 |
| Pyridine | 816 | 795 | ug/Kg wet | 1,660 | | 49 | 7-72 | | | | 1 |
| *Surrogate: 2-Fluorophenol* | *1,580* | | *ug/Kg wet* | *2,210* | | *71* | *35-115* | | | | 1 |
| *Surrogate: Phenol-d5* | *1,680* | | *ug/Kg wet* | *2,210* | | *76* | *33-122* | | | | 1 |
| *Surrogate: Nitrobenzene-d5* | *1,740* | | *ug/Kg wet* | *2,210* | | *79* | *37-122* | | | | 1 |
| *Surrogate: 2-Fluorobiphenyl* | *1,760* | | *ug/Kg wet* | *2,210* | | *80* | *44-115* | | | | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | *1,800* | | *ug/Kg wet* | *2,210* | | *82* | *39-132* | | | | 1 |
| *Surrogate: 4-Terphenyl-d14* | *1,880* | | *ug/Kg wet* | *2,210* | | *85* | *54-127* | | | | 1 |

**(B24J0789-MS1), Matrix Spike** **Source: O24J0343-07** *Prepared: 10/15/2024 11:40 Analyzed: 10/16/2024 17:29*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 973 | 27.2 | ug/Kg dry | 1,510 | ND | 64 | 34-118 | | | | 1 |
| 1,2-Dichlorobenzene | 976 | 27.2 | ug/Kg dry | 1,510 | ND | 65 | 33-117 | | | | 1 |
| 1,3-Dichlorobenzene | 953 | 27.2 | ug/Kg dry | 1,510 | ND | 63 | 30-115 | | | | 1 |
| 1,4-Dichlorobenzene | 960 | 27.2 | ug/Kg dry | 1,510 | ND | 64 | 31-115 | | | | 1 |
| 1-Methylnaphthalene | 1,050 | 27.2 | ug/Kg dry | 1,510 | ND | 69 | 40-119 | | | | 1 |
| 2,4,5-Trichlorophenol | 1,170 | 18.1 | ug/Kg dry | 1,510 | ND | 77 | 41-124 | | | | 1 |
| 2,4,6-Trichlorophenol | 1,170 | 18.1 | ug/Kg dry | 1,510 | ND | 78 | 39-126 | | | | 1 |
| 2,4-Dichlorophenol | 1,140 | 18.1 | ug/Kg dry | 1,510 | ND | 75 | 40-122 | | | | 1 |
| 2,4-Dimethylphenol | 1,130 | 54.4 | ug/Kg dry | 1,510 | ND | 75 | 30-127 | | | | 1 |
| 2,4-Dinitrophenol | 1,380 | 453 | ug/Kg dry | 1,510 | ND | 92 | 15-130 | | | | 1 |
| 2,4-Dinitrotoluene | 1,240 | 27.2 | ug/Kg dry | 1,510 | ND | 82 | 48-126 | | | | 1 |
| 2,6-Dichlorophenol | 1,100 | 18.1 | ug/Kg dry | 1,510 | ND | 73 | 41-117 | | | | 1 |
| 2,6-Dinitrotoluene | 1,200 | 18.1 | ug/Kg dry | 1,510 | ND | 79 | 46-124 | | | | 1 |
| 2-Chloronaphthalene | 1,100 | 18.1 | ug/Kg dry | 1,510 | ND | 73 | 41-114 | | | | 1 |
| 2-Chlorophenol | 1,090 | 18.1 | ug/Kg dry | 1,510 | ND | 72 | 34-121 | | | | 1 |
| 2-Methylnaphthalene | 1,040 | 27.2 | ug/Kg dry | 1,510 | ND | 69 | 38-122 | | | | 1 |
| 2-Methylphenol | 1,160 | 9.06 | ug/Kg dry | 1,510 | ND | 77 | 32-122 | | | | 1 |
| 2-Nitroaniline | 1,280 | 27.2 | ug/Kg dry | 1,510 | ND | 85 | 44-127 | | | | 1 |
| 2-Nitrophenol | 1,100 | 27.2 | ug/Kg dry | 1,510 | ND | 73 | 36-123 | | | | 1 |
| 3,3´-Dichlorobenzidine | 1,570 | 109 | ug/Kg dry | 2,420 | ND | 65 | 22-121 | | | | 1 |
| 3 & 4-Methylphenol | 1,230 | 36.3 | ug/Kg dry | 1,510 | ND | 81 | 34-119 | | | | 1 |
| 3-Nitroaniline | 1,300 | 27.2 | ug/Kg dry | 1,510 | ND | 86 | 33-119 | | | | 1 |
| 4,6-Dinitro-2-methylphenol | 1,330 | 725 | ug/Kg dry | 1,510 | ND | 88 | 29-132 | | | | 1 |
| 4-Bromophenyl-phenylether | 1,120 | 27.2 | ug/Kg dry | 1,510 | ND | 74 | 46-124 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0789 - SW3550*** *(Continued)*

**(B24J0789-MS1), Matrix Spike** (Continued) **Source: O24J0343-07** *Prepared: 10/15/2024 11:40 Analyzed: 10/16/2024 17:29*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | 1,190 | 18.1 | ug/Kg dry | 1,510 | ND | 79 | 45-122 | | | | 1 |
| 4-Chloroaniline | 1,150 | 27.2 | ug/Kg dry | 1,510 | ND | 76 | 17-106 | | | | 1 |
| 4-Chlorophenyl-phenylether | 1,120 | 27.2 | ug/Kg dry | 1,510 | ND | 74 | 45-121 | | | | 1 |
| 4-Nitroaniline | 1,270 | 36.3 | ug/Kg dry | 1,510 | ND | 84 | 35-115 | | | | 1 |
| 4-Nitrophenol | 1,310 | 725 | ug/Kg dry | 1,510 | ND | 87 | 30-132 | | | | 1 |
| Acenaphthene | 1,130 | 18.1 | ug/Kg dry | 1,510 | ND | 74 | 40-123 | | | | 1 |
| Acenaphthylene | 1,120 | 18.1 | ug/Kg dry | 1,510 | ND | 74 | 32-132 | | | | 1 |
| Aniline | 1,060 | 181 | ug/Kg dry | 1,510 | ND | 70 | 40-135 | | | | 1 |
| Anthracene | 1,160 | 27.2 | ug/Kg dry | 1,510 | ND | 77 | 47-123 | | | | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | 1,200 | 18.1 | ug/Kg dry | 1,510 | ND | 80 | 39-125 | | | | 1 |
| Benzidine | 959 | 3,020 | ug/Kg dry | 2,420 | ND | 40 | 29-140 | | | J | 1 |
| Benzo(a)anthracene | 1,170 | 27.2 | ug/Kg dry | 1,510 | 7.23 | 77 | 49-126 | | | | 1 |
| Benzo(a)pyrene | 1,190 | 72.5 | ug/Kg dry | 1,510 | 9.34 | 78 | 45-129 | | | | 1 |
| Benzo(b)fluoranthene | 1,190 | 27.2 | ug/Kg dry | 1,510 | 12.0 | 78 | 45-132 | | | | 1 |
| Benzo(g,h,i)perylene | 1,200 | 36.3 | ug/Kg dry | 1,510 | ND | 79 | 43-134 | | | | 1 |
| Benzo(k)fluoranthene | 1,160 | 36.3 | ug/Kg dry | 1,510 | ND | 77 | 47-132 | | | | 1 |
| Benzoic acid | 1,440 | 1,450 | ug/Kg dry | 4,830 | ND | 30 | 22-118 | | | J | 1 |
| Benzyl alcohol | 1,180 | 27.2 | ug/Kg dry | 1,510 | ND | 78 | 29-122 | | | | 1 |
| Bis(2-chloroethoxy)methane | 1,190 | 18.1 | ug/Kg dry | 1,510 | ND | 78 | 36-121 | | | | 1 |
| Bis(2-chloroethyl)ether | 1,150 | 453 | ug/Kg dry | 1,510 | ND | 76 | 31-120 | | | | 1 |
| Bis(2-ethylhexyl)phthalate | 1,200 | 181 | ug/Kg dry | 1,510 | ND | 79 | 51-133 | | | B | 1 |
| Butyl benzyl phthalate | 1,160 | 54.4 | ug/Kg dry | 1,510 | ND | 77 | 48-132 | | | | 1 |
| Carbazole | 1,190 | 18.1 | ug/Kg dry | 1,510 | ND | 79 | 50-123 | | | | 1 |
| Chrysene | 1,180 | 18.1 | ug/Kg dry | 1,510 | 7.53 | 77 | 50-124 | | | | 1 |
| Dibenzo(a,h)anthracene | 1,240 | 27.2 | ug/Kg dry | 1,510 | ND | 82 | 45-134 | | | | 1 |
| Dibenzofuran | 1,100 | 27.2 | ug/Kg dry | 1,510 | ND | 73 | 44-120 | | | | 1 |
| Diethyl phthalate | 1,160 | 181 | ug/Kg dry | 1,510 | ND | 76 | 50-124 | | | | 1 |
| Dimethyl phthalate | 1,210 | 18.1 | ug/Kg dry | 1,510 | ND | 80 | 48-124 | | | | 1 |
| Di-n-butyl phthalate | 1,160 | 54.4 | ug/Kg dry | 1,510 | ND | 77 | 51-128 | | | | 1 |
| Di-n-octyl phthalate | 1,210 | 27.2 | ug/Kg dry | 1,510 | ND | 80 | 45-140 | | | | 1 |
| Fluoranthene | 1,140 | 27.2 | ug/Kg dry | 1,510 | 17.2 | 74 | 50-127 | | | | 1 |
| Fluorene | 1,130 | 18.1 | ug/Kg dry | 1,510 | ND | 75 | 43-125 | | | | 1 |
| Hexachlorobenzene | 1,120 | 18.1 | ug/Kg dry | 1,510 | ND | 74 | 45-122 | | | | 1 |
| Hexachlorobutadiene | 934 | 36.3 | ug/Kg dry | 1,510 | ND | 62 | 32-123 | | | | 1 |
| Hexachlorocyclopentadiene | 1,030 | 725 | ug/Kg dry | 1,510 | ND | 68 | 31-133 | | | | 1 |
| Hexachloroethane | 935 | 36.3 | ug/Kg dry | 1,510 | ND | 62 | 28-117 | | | | 1 |
| Indeno(1,2,3-cd)pyrene | 1,200 | 27.2 | ug/Kg dry | 1,510 | ND | 79 | 45-133 | | | | 1 |
| Isophorone | 1,200 | 27.2 | ug/Kg dry | 1,510 | ND | 80 | 30-122 | | | | 1 |
| Naphthalene | 1,060 | 27.2 | ug/Kg dry | 1,510 | ND | 70 | 35-123 | | | | 1 |
| Nitrobenzene | 1,170 | 36.3 | ug/Kg dry | 1,510 | ND | 77 | 34-122 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

### *Batch: B24J0789 - SW3550 (Continued)*

**(B24J0789-MS1), Matrix Spike** (Continued) **Source: O24J0343-07** *Prepared: 10/15/2024 11:40 Analyzed: 10/16/2024 17:29*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N-Nitrosodimethylamine | 1,120 | 36.3 | ug/Kg dry | 1,510 | ND | 74 | 23-120 | | | | 1 |
| N-Nitrosodi-n-propylamine | 1,210 | 54.4 | ug/Kg dry | 1,510 | ND | 80 | 36-120 | | | | 1 |
| N-Nitrosodiphenylamine | 1,140 | 27.2 | ug/Kg dry | 1,510 | ND | 75 | 38-127 | | | | 1 |
| N-Nitrosopyrrolidine | 1,170 | 27.2 | ug/Kg dry | 1,510 | ND | 77 | 45-126 | | | | 1 |
| Pentachlorophenol | 1,080 | 453 | ug/Kg dry | 1,510 | ND | 72 | 25-133 | | | | 1 |
| Phenanthrene | 1,160 | 27.2 | ug/Kg dry | 1,510 | 10.2 | 76 | 50-121 | | | | 1 |
| Phenol | 1,140 | 36.3 | ug/Kg dry | 1,510 | ND | 76 | 34-121 | | | | 1 |
| Pyrene | 1,170 | 27.2 | ug/Kg dry | 1,510 | 15.1 | 76 | 47-127 | | | | 1 |
| Pyridine | 882 | 725 | ug/Kg dry | 1,510 | ND | 58 | 7-72 | | | | 1 |
| *Surrogate: 2-Fluorophenol* | *1,400* | | *ug/Kg dry* | *2,020* | | *69* | *35-115* | | | | 1 |
| *Surrogate: Phenol-d5* | *1,510* | | *ug/Kg dry* | *2,020* | | *75* | *33-122* | | | | 1 |
| *Surrogate: Nitrobenzene-d5* | *1,520* | | *ug/Kg dry* | *2,020* | | *75* | *37-122* | | | | 1 |
| *Surrogate: 2-Fluorobiphenyl* | *1,440* | | *ug/Kg dry* | *2,020* | | *71* | *44-115* | | | | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | *1,610* | | *ug/Kg dry* | *2,020* | | *80* | *39-132* | | | | 1 |
| *Surrogate: 4-Terphenyl-d14* | *1,510* | | *ug/Kg dry* | *2,020* | | *75* | *54-127* | | | | 1 |

**(B24J0789-MSD1), Matrix Spike Dup** **Source: O24J0343-07** *Prepared: 10/15/2024 11:40 Analyzed: 10/16/2024 17:49*

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 1,040 | 27.3 | ug/Kg dry | 1,510 | ND | 68 | 34-118 | 6 | 20 | | 1 |
| 1,2-Dichlorobenzene | 963 | 27.3 | ug/Kg dry | 1,510 | ND | 64 | 33-117 | 1 | 20 | | 1 |
| 1,3-Dichlorobenzene | 945 | 27.3 | ug/Kg dry | 1,510 | ND | 62 | 30-115 | 0.9 | 20 | | 1 |
| 1,4-Dichlorobenzene | 941 | 27.3 | ug/Kg dry | 1,510 | ND | 62 | 31-115 | 2 | 20 | | 1 |
| 1-Methylnaphthalene | 1,120 | 27.3 | ug/Kg dry | 1,510 | ND | 74 | 40-119 | 7 | 20 | | 1 |
| 2,4,5-Trichlorophenol | 1,280 | 18.2 | ug/Kg dry | 1,510 | ND | 84 | 41-124 | 9 | 20 | | 1 |
| 2,4,6-Trichlorophenol | 1,270 | 18.2 | ug/Kg dry | 1,510 | ND | 84 | 39-126 | 8 | 20 | | 1 |
| 2,4-Dichlorophenol | 1,240 | 18.2 | ug/Kg dry | 1,510 | ND | 82 | 40-122 | 9 | 20 | | 1 |
| 2,4-Dimethylphenol | 1,240 | 54.5 | ug/Kg dry | 1,510 | ND | 82 | 30-127 | 9 | 20 | | 1 |
| 2,4-Dinitrophenol | 1,460 | 454 | ug/Kg dry | 1,510 | ND | 96 | 15-130 | 5 | 20 | | 1 |
| 2,4-Dinitrotoluene | 1,360 | 27.3 | ug/Kg dry | 1,510 | ND | 90 | 48-126 | 9 | 20 | | 1 |
| 2,6-Dichlorophenol | 1,200 | 18.2 | ug/Kg dry | 1,510 | ND | 79 | 41-117 | 9 | 20 | | 1 |
| 2,6-Dinitrotoluene | 1,290 | 18.2 | ug/Kg dry | 1,510 | ND | 85 | 46-124 | 8 | 20 | | 1 |
| 2-Chloronaphthalene | 1,180 | 18.2 | ug/Kg dry | 1,510 | ND | 78 | 41-114 | 7 | 20 | | 1 |
| 2-Chlorophenol | 1,140 | 18.2 | ug/Kg dry | 1,510 | ND | 75 | 34-121 | 5 | 20 | | 1 |
| 2-Methylnaphthalene | 1,130 | 27.3 | ug/Kg dry | 1,510 | ND | 75 | 38-122 | 8 | 20 | | 1 |
| 2-Methylphenol | 1,240 | 9.09 | ug/Kg dry | 1,510 | ND | 82 | 32-122 | 6 | 20 | | 1 |
| 2-Nitroaniline | 1,380 | 27.3 | ug/Kg dry | 1,510 | ND | 91 | 44-127 | 7 | 20 | | 1 |
| 2-Nitrophenol | 1,230 | 27.3 | ug/Kg dry | 1,510 | ND | 81 | 36-123 | 11 | 20 | | 1 |
| 3,3´-Dichlorobenzidine | 1,700 | 109 | ug/Kg dry | 2,420 | ND | 70 | 22-121 | 8 | 20 | | 1 |
| 3 & 4-Methylphenol | 1,280 | 36.4 | ug/Kg dry | 1,510 | ND | 84 | 34-119 | 4 | 20 | | 1 |
| 3-Nitroaniline | 1,400 | 27.3 | ug/Kg dry | 1,510 | ND | 92 | 33-119 | 7 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0789 - SW3550*** *(Continued)*

**(B24J0789-MSD1), Matrix Spike Dup** (Continue **Source: O24J0343-07** *Prepared: 10/15/2024 11:40 Analyzed: 10/16/2024 17:49*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | 1,480 | 727 | ug/Kg dry | 1,510 | ND | 97 | 29-132 | 11 | 20 | | 1 |
| 4-Bromophenyl-phenylether | 1,270 | 27.3 | ug/Kg dry | 1,510 | ND | 84 | 46-124 | 13 | 20 | | 1 |
| 4-Chloro-3-methylphenol | 1,320 | 18.2 | ug/Kg dry | 1,510 | ND | 87 | 45-122 | 11 | 20 | | 1 |
| 4-Chloroaniline | 1,220 | 27.3 | ug/Kg dry | 1,510 | ND | 80 | 17-106 | 5 | 20 | | 1 |
| 4-Chlorophenyl-phenylether | 1,200 | 27.3 | ug/Kg dry | 1,510 | ND | 79 | 45-121 | 7 | 20 | | 1 |
| 4-Nitroaniline | 1,350 | 36.4 | ug/Kg dry | 1,510 | ND | 89 | 35-115 | 6 | 20 | | 1 |
| 4-Nitrophenol | 1,400 | 727 | ug/Kg dry | 1,510 | ND | 93 | 30-132 | 7 | 20 | | 1 |
| Acenaphthene | 1,210 | 18.2 | ug/Kg dry | 1,510 | ND | 80 | 40-123 | 7 | 20 | | 1 |
| Acenaphthylene | 1,200 | 18.2 | ug/Kg dry | 1,510 | ND | 79 | 32-132 | 7 | 20 | | 1 |
| Aniline | 1,090 | 182 | ug/Kg dry | 1,510 | ND | 72 | 40-135 | 2 | 20 | | 1 |
| Anthracene | 1,290 | 27.3 | ug/Kg dry | 1,510 | ND | 85 | 47-123 | 11 | 20 | | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | 1,330 | 18.2 | ug/Kg dry | 1,510 | ND | 88 | 39-125 | 10 | 20 | | 1 |
| Benzidine | 1,330 | 3,030 | ug/Kg dry | 2,420 | ND | 55 | 29-140 | 33 | 20 | P, J | 1 |
| Benzo(a)anthracene | 1,260 | 27.3 | ug/Kg dry | 1,510 | 7.23 | 83 | 49-126 | 7 | 20 | | 1 |
| Benzo(a)pyrene | 1,280 | 72.7 | ug/Kg dry | 1,510 | 9.34 | 84 | 45-129 | 7 | 20 | | 1 |
| Benzo(b)fluoranthene | 1,270 | 27.3 | ug/Kg dry | 1,510 | 12.0 | 83 | 45-132 | 6 | 20 | | 1 |
| Benzo(g,h,i)perylene | 1,300 | 36.4 | ug/Kg dry | 1,510 | ND | 86 | 43-134 | 8 | 20 | | 1 |
| Benzo(k)fluoranthene | 1,290 | 36.4 | ug/Kg dry | 1,510 | ND | 85 | 47-132 | 11 | 20 | | 1 |
| Benzoic acid | 982 | 1,450 | ug/Kg dry | 4,850 | ND | 20 | 22-118 | 38 | 20 | P, S, J | 1 |
| Benzyl alcohol | 1,260 | 27.3 | ug/Kg dry | 1,510 | ND | 83 | 29-122 | 6 | 20 | | 1 |
| Bis(2-chloroethoxy)methane | 1,270 | 18.2 | ug/Kg dry | 1,510 | ND | 84 | 36-121 | 7 | 20 | | 1 |
| Bis(2-chloroethyl)ether | 1,160 | 454 | ug/Kg dry | 1,510 | ND | 77 | 31-120 | 1 | 20 | | 1 |
| Bis(2-ethylhexyl)phthalate | 1,340 | 182 | ug/Kg dry | 1,510 | ND | 88 | 51-133 | 11 | 20 | B | 1 |
| Butyl benzyl phthalate | 1,280 | 54.5 | ug/Kg dry | 1,510 | ND | 84 | 48-132 | 10 | 20 | | 1 |
| Carbazole | 1,280 | 18.2 | ug/Kg dry | 1,510 | ND | 85 | 50-123 | 7 | 20 | | 1 |
| Chrysene | 1,270 | 18.2 | ug/Kg dry | 1,510 | 7.53 | 84 | 50-124 | 8 | 20 | | 1 |
| Dibenzo(a,h)anthracene | 1,280 | 27.3 | ug/Kg dry | 1,510 | ND | 85 | 45-134 | 3 | 20 | | 1 |
| Dibenzofuran | 1,160 | 27.3 | ug/Kg dry | 1,510 | ND | 77 | 44-120 | 6 | 20 | | 1 |
| Diethyl phthalate | 1,240 | 182 | ug/Kg dry | 1,510 | ND | 82 | 50-124 | 7 | 20 | | 1 |
| Dimethyl phthalate | 1,290 | 18.2 | ug/Kg dry | 1,510 | ND | 85 | 48-124 | 7 | 20 | | 1 |
| Di-n-butyl phthalate | 1,300 | 54.5 | ug/Kg dry | 1,510 | ND | 86 | 51-128 | 11 | 20 | | 1 |
| Di-n-octyl phthalate | 1,330 | 27.3 | ug/Kg dry | 1,510 | ND | 88 | 45-140 | 9 | 20 | | 1 |
| Fluoranthene | 1,270 | 27.3 | ug/Kg dry | 1,510 | 17.2 | 83 | 50-127 | 11 | 20 | | 1 |
| Fluorene | 1,230 | 18.2 | ug/Kg dry | 1,510 | ND | 81 | 43-125 | 9 | 20 | | 1 |
| Hexachlorobenzene | 1,290 | 18.2 | ug/Kg dry | 1,510 | ND | 85 | 45-122 | 14 | 20 | | 1 |
| Hexachlorobutadiene | 1,010 | 36.4 | ug/Kg dry | 1,510 | ND | 67 | 32-123 | 8 | 20 | | 1 |
| Hexachlorocyclopentadiene | 1,080 | 727 | ug/Kg dry | 1,510 | ND | 72 | 31-133 | 5 | 20 | | 1 |
| Hexachloroethane | 944 | 36.4 | ug/Kg dry | 1,510 | ND | 62 | 28-117 | 0.9 | 20 | | 1 |
| Indeno(1,2,3-cd)pyrene | 1,280 | 27.3 | ug/Kg dry | 1,510 | ND | 84 | 45-133 | 6 | 20 | | 1 |
| Isophorone | 1,270 | 27.3 | ug/Kg dry | 1,510 | ND | 84 | 30-122 | 6 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Semivolatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0789 - SW3550*** *(Continued)* | | | | | | | | | | | |
| **(B24J0789-MSD1), Matrix Spike Dup** (Continue | | | | **Source: O24J0343-07** | | *Prepared: 10/15/2024 11:40* | | *Analyzed: 10/16/2024 17:49* | | | |
| Naphthalene | 1,120 | 27.3 | ug/Kg dry | 1,510 | ND | 74 | 35-123 | 5 | 20 | | 1 |
| Nitrobenzene | 1,220 | 36.4 | ug/Kg dry | 1,510 | ND | 81 | 34-122 | 5 | 20 | | 1 |
| N-Nitrosodimethylamine | 1,070 | 36.4 | ug/Kg dry | 1,510 | ND | 71 | 23-120 | 4 | 20 | | 1 |
| N-Nitrosodi-n-propylamine | 1,250 | 54.5 | ug/Kg dry | 1,510 | ND | 83 | 36-120 | 3 | 20 | | 1 |
| N-Nitrosodiphenylamine | 1,220 | 27.3 | ug/Kg dry | 1,510 | ND | 81 | 38-127 | 7 | 20 | | 1 |
| N-Nitrosopyrrolidine | 1,230 | 27.3 | ug/Kg dry | 1,510 | ND | 81 | 45-126 | 5 | 20 | | 1 |
| Pentachlorophenol | 1,200 | 454 | ug/Kg dry | 1,510 | ND | 79 | 25-133 | 10 | 20 | | 1 |
| Phenanthrene | 1,290 | 27.3 | ug/Kg dry | 1,510 | 10.2 | 85 | 50-121 | 10 | 20 | | 1 |
| Phenol | 1,200 | 36.4 | ug/Kg dry | 1,510 | ND | 79 | 34-121 | 5 | 20 | | 1 |
| Pyrene | 1,250 | 27.3 | ug/Kg dry | 1,510 | 15.1 | 82 | 47-127 | 7 | 20 | | 1 |
| Pyridine | 863 | 727 | ug/Kg dry | 1,510 | ND | 57 | 7-72 | 2 | 20 | | 1 |
| *Surrogate: 2-Fluorophenol* | *1,400* | | *ug/Kg dry* | *2,020* | | *69* | *35-115* | | | | 1 |
| *Surrogate: Phenol-d5* | *1,550* | | *ug/Kg dry* | *2,020* | | *77* | *33-122* | | | | 1 |
| *Surrogate: Nitrobenzene-d5* | *1,600* | | *ug/Kg dry* | *2,020* | | *79* | *37-122* | | | | 1 |
| *Surrogate: 2-Fluorobiphenyl* | *1,540* | | *ug/Kg dry* | *2,020* | | *76* | *44-115* | | | | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | *1,730* | | *ug/Kg dry* | *2,020* | | *86* | *39-132* | | | | 1 |
| *Surrogate: 4-Terphenyl-d14* | *1,660* | | *ug/Kg dry* | *2,020* | | *82* | *54-127* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Polychlorinated Biphenyls (PCBs) by GC/ECD

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0270 - SW3546*** | | | | | | | | | | | |
| **(B24J0270-BLK1), Blank** | | | | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/08/2024 22:22* | | | | |
| Aroclor 1016 | <0.0975 | 0.195 | mg/Kg wet | | | | | | | U | 1 |
| Aroclor 1221 | <0.487 | 0.585 | mg/Kg wet | | | | | | | U | 1 |
| Aroclor 1232 | <0.585 | 0.780 | mg/Kg wet | | | | | | | U | 1 |
| Aroclor 1242 | <0.195 | 0.292 | mg/Kg wet | | | | | | | U | 1 |
| Aroclor 1248 | <0.195 | 0.292 | mg/Kg wet | | | | | | | U | 1 |
| Aroclor 1254 | <0.0975 | 0.195 | mg/Kg wet | | | | | | | U | 1 |
| Aroclor 1260 | <0.244 | 0.292 | mg/Kg wet | | | | | | | U | 1 |
| Aroclor 1262 | <0.0975 | 0.292 | mg/Kg wet | | | | | | | U | 1 |
| Aroclor 1268 | <0.195 | 0.292 | mg/Kg wet | | | | | | | U | 1 |
| Total PCB | <0.585 | 0.780 | mg/Kg wet | | | | | | | U | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.0965* | | *mg/Kg wet* | *0.0975* | | *99* | *10-127* | | | Q | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0884* | | *mg/Kg wet* | *0.0975* | | *91* | *44-130* | | | | 1 |
| **(B24J0270-BS1), LCS** | | | | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/08/2024 22:39* | | | | |
| Aroclor 1016 | 0.387 | 0.200 | mg/Kg wet | 0.399 | | 97 | 47-134 | | | | 1 |
| Aroclor 1260 | 0.359 | 0.299 | mg/Kg wet | 0.399 | | 90 | 53-140 | | | | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.0937* | | *mg/Kg wet* | *0.0998* | | *94* | *10-127* | | | Q | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0814* | | *mg/Kg wet* | *0.0998* | | *82* | *44-130* | | | | 1 |
| **(B24J0270-MS1), Matrix Spike** | | | **Source: O24J0276-11** | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/08/2024 22:56* | | | | |
| Aroclor 1016 | 0.404 | 0.218 | mg/Kg dry | 0.436 | | 93 | 47-134 | | | | 1 |
| Aroclor 1260 | 0.368 | 0.327 | mg/Kg dry | 0.436 | | 84 | 53-140 | | | | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.0956* | | *mg/Kg dry* | *0.109* | | *88* | *10-127* | | | Q | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0816* | | *mg/Kg dry* | *0.109* | | *75* | *44-130* | | | | 1 |
| **(B24J0270-MSD1), Matrix Spike Dup** | | | **Source: O24J0276-11** | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/08/2024 23:13* | | | | |
| Aroclor 1016 | 0.334 | 0.221 | mg/Kg dry | 0.443 | | 75 | 47-134 | 19 | 30 | | 1 |
| Aroclor 1260 | 0.303 | 0.332 | mg/Kg dry | 0.443 | | 68 | 53-140 | 19 | 30 | J | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.0831* | | *mg/Kg dry* | *0.111* | | *75* | *10-127* | | | Q | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0710* | | *mg/Kg dry* | *0.111* | | *64* | *44-130* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Organochlorine Pesticides by GC/ECD

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0269 - SW3546*** | | | | | | | | | | | |
| **(B24J0269-BLK1), Blank** | | | | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/17/2024 17:10* | | | | |
| 4,4'-DDD | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| 4,4'-DDD [2C] | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| 4,4'-DDE | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| 4,4'-DDE [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| 4,4'-DDT | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| 4,4'-DDT [2C] | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| Aldrin | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Aldrin [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| alpha-BHC | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| alpha-BHC [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| alpha-Chlordane | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| alpha-Chlordane [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| beta-BHC | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| beta-BHC [2C] | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| Chlordane | <19.5 | 39.0 | ug/Kg wet | | | | | | | U | 1 |
| Chlordane [2C] | <19.5 | 39.0 | ug/Kg wet | | | | | | | U | 1 |
| delta-BHC | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| delta-BHC [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Dieldrin | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Dieldrin [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Endosulfan I | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Endosulfan I [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Endosulfan II | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Endosulfan II [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Endosulfan sulfate | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| Endosulfan sulfate [2C] | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| Endrin | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Endrin [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Endrin aldehyde | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| Endrin aldehyde [2C] | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| Endrin ketone | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| Endrin ketone [2C] | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| gamma-BHC | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| gamma-BHC [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| gamma-Chlordane | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| gamma-Chlordane [2C] | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| Heptachlor | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Heptachlor [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Heptachlor epoxide | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |
| Heptachlor epoxide [2C] | <1.95 | 3.90 | ug/Kg wet | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Organochlorine Pesticides by GC/ECD

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0269 - SW3546*** *(Continued)* | | | | | | | | | | | |
| **(B24J0269-BLK1), Blank** (Continued) | | | | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/17/2024 17:10* | | | | |
| Methoxychlor | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| Methoxychlor [2C] | <3.90 | 7.80 | ug/Kg wet | | | | | | | U | 1 |
| Toxaphene | <244 | 487 | ug/Kg wet | | | | | | | U | 1 |
| Toxaphene [2C] | <244 | 487 | ug/Kg wet | | | | | | | U | 1 |
| *Surrogate: Decachlorobiphenyl* | *88.1* | | *ug/Kg wet* | *97.5* | | *90* | *23-110* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *121* | | *ug/Kg wet* | *97.5* | | *124* | *23-110* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *88.2* | | *ug/Kg wet* | *97.5* | | *91* | *42-129* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *88.3* | | *ug/Kg wet* | *97.5* | | *91* | *42-129* | | | | 1 |
| **(B24J0269-BS1), LCS-Reg** | | | | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/17/2024 17:26* | | | | |
| 4,4'-DDD | 81.4 | 7.63 | ug/Kg wet | 95.4 | | 85 | 56-139 | | | | 1 |
| 4,4'-DDD [2C] | 83.8 | 7.63 | ug/Kg wet | 95.4 | | 88 | 56-139 | | | | 1 |
| 4,4'-DDE | 79.4 | 3.82 | ug/Kg wet | 95.4 | | 83 | 56-134 | | | | 1 |
| 4,4'-DDE [2C] | 83.3 | 3.82 | ug/Kg wet | 95.4 | | 87 | 56-134 | | | | 1 |
| 4,4'-DDT | 83.0 | 7.63 | ug/Kg wet | 95.4 | | 87 | 50-141 | | | | 1 |
| 4,4'-DDT [2C] | 89.9 | 7.63 | ug/Kg wet | 95.4 | | 94 | 50-141 | | | | 1 |
| Aldrin | 83.0 | 3.82 | ug/Kg wet | 95.4 | | 87 | 45-136 | | | | 1 |
| Aldrin [2C] | 86.5 | 3.82 | ug/Kg wet | 95.4 | | 91 | 45-136 | | | | 1 |
| alpha-BHC | 80.2 | 3.82 | ug/Kg wet | 95.4 | | 84 | 45-137 | | | | 1 |
| alpha-BHC [2C] | 81.1 | 3.82 | ug/Kg wet | 95.4 | | 85 | 45-137 | | | | 1 |
| alpha-Chlordane | 79.2 | 3.82 | ug/Kg wet | 95.4 | | 83 | 54-133 | | | | 1 |
| alpha-Chlordane [2C] | 82.0 | 3.82 | ug/Kg wet | 95.4 | | 86 | 54-133 | | | | 1 |
| beta-BHC | 79.7 | 7.63 | ug/Kg wet | 95.4 | | 84 | 50-136 | | | | 1 |
| beta-BHC [2C] | 82.0 | 7.63 | ug/Kg wet | 95.4 | | 86 | 50-136 | | | | 1 |
| delta-BHC | 83.7 | 3.82 | ug/Kg wet | 95.4 | | 88 | 47-139 | | | | 1 |
| delta-BHC [2C] | 86.4 | 3.82 | ug/Kg wet | 95.4 | | 91 | 47-139 | | | | 1 |
| Dieldrin | 81.2 | 3.82 | ug/Kg wet | 95.4 | | 85 | 56-136 | | | | 1 |
| Dieldrin [2C] | 83.9 | 3.82 | ug/Kg wet | 95.4 | | 88 | 56-136 | | | | 1 |
| Endosulfan I | 81.5 | 3.82 | ug/Kg wet | 95.4 | | 85 | 53-132 | | | | 1 |
| Endosulfan I [2C] | 84.5 | 3.82 | ug/Kg wet | 95.4 | | 89 | 53-132 | | | | 1 |
| Endosulfan II | 79.9 | 3.82 | ug/Kg wet | 95.4 | | 84 | 53-134 | | | | 1 |
| Endosulfan II [2C] | 82.3 | 3.82 | ug/Kg wet | 95.4 | | 86 | 53-134 | | | | 1 |
| Endosulfan sulfate | 79.7 | 7.63 | ug/Kg wet | 95.4 | | 83 | 55-136 | | | | 1 |
| Endosulfan sulfate [2C] | 82.6 | 7.63 | ug/Kg wet | 95.4 | | 87 | 55-136 | | | | 1 |
| Endrin | 80.8 | 3.82 | ug/Kg wet | 95.4 | | 85 | 57-140 | | | | 1 |
| Endrin [2C] | 84.1 | 3.82 | ug/Kg wet | 95.4 | | 88 | 57-140 | | | | 1 |
| Endrin aldehyde | 81.7 | 7.63 | ug/Kg wet | 95.4 | | 86 | 35-137 | | | | 1 |
| Endrin aldehyde [2C] | 83.0 | 7.63 | ug/Kg wet | 95.4 | | 87 | 35-137 | | | | 1 |
| Endrin ketone | 84.1 | 7.63 | ug/Kg wet | 95.4 | | 88 | 55-136 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Organochlorine Pesticides by GC/ECD

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0269 - SW3546*** *(Continued)* | | | | | | | | | | | |
| **(B24J0269-BS1), LCS-Reg** (Continued) | | | | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/17/2024 17:43* | | | | |
| Endrin ketone [2C] | 89.4 | 7.63 | ug/Kg wet | 95.4 | | 94 | 55-136 | | | | 1 |
| gamma-BHC | 83.1 | 3.82 | ug/Kg wet | 95.4 | | 87 | 49-135 | | | | 1 |
| gamma-BHC [2C] | 85.7 | 3.82 | ug/Kg wet | 95.4 | | 90 | 49-135 | | | | 1 |
| gamma-Chlordane | 81.7 | 7.63 | ug/Kg wet | 95.4 | | 86 | 53-135 | | | | 1 |
| gamma-Chlordane [2C] | 85.6 | 7.63 | ug/Kg wet | 95.4 | | 90 | 53-135 | | | | 1 |
| Heptachlor | 82.0 | 3.82 | ug/Kg wet | 95.4 | | 86 | 47-136 | | | | 1 |
| Heptachlor [2C] | 83.4 | 3.82 | ug/Kg wet | 95.4 | | 87 | 47-136 | | | | 1 |
| Heptachlor epoxide | 82.8 | 3.82 | ug/Kg wet | 95.4 | | 87 | 52-136 | | | | 1 |
| Heptachlor epoxide [2C] | 85.3 | 3.82 | ug/Kg wet | 95.4 | | 89 | 52-136 | | | | 1 |
| Methoxychlor | 86.3 | 7.63 | ug/Kg wet | 95.4 | | 90 | 52-143 | | | | 1 |
| Methoxychlor [2C] | 86.7 | 7.63 | ug/Kg wet | 95.4 | | 91 | 52-143 | | | | 1 |
| *Surrogate: Decachlorobiphenyl* | *96.6* | | *ug/Kg wet* | *95.4* | | *101* | *23-110* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *135* | | *ug/Kg wet* | *95.4* | | *141* | *23-110* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *96.8* | | *ug/Kg wet* | *95.4* | | *101* | *42-129* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *96.7* | | *ug/Kg wet* | *95.4* | | *101* | *42-129* | | | | 1 |
| **(B24J0269-BS2), LCS-Tox** | | | | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/17/2024 17:43* | | | | |
| Toxaphene | 2,520 | 499 | ug/Kg wet | 2,990 | | 84 | 33-141 | | | | 1 |
| Toxaphene [2C] | 2,530 | 499 | ug/Kg wet | 2,990 | | 84 | 33-141 | | | | 1 |
| *Surrogate: Decachlorobiphenyl* | *108* | | *ug/Kg wet* | *99.8* | | *109* | *23-110* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *138* | | *ug/Kg wet* | *99.8* | | *138* | *23-110* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *102* | | *ug/Kg wet* | *99.8* | | *102* | *42-129* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *100* | | *ug/Kg wet* | *99.8* | | *100* | *42-129* | | | | 1 |
| **(B24J0269-BS3), LCS-Chlor** | | | | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/17/2024 18:00* | | | | |
| Chlordane | 846 | 39.7 | ug/Kg wet | 992 | | 85 | 43-149 | | | | 1 |
| Chlordane [2C] | 869 | 39.7 | ug/Kg wet | 992 | | 88 | 67-121 | | | | 1 |
| *Surrogate: Decachlorobiphenyl* | *98.2* | | *ug/Kg wet* | *99.2* | | *99* | *23-110* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *139* | | *ug/Kg wet* | *99.2* | | *140* | *23-110* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *99.2* | | *ug/Kg wet* | *99.2* | | *100* | *42-129* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *99.5* | | *ug/Kg wet* | *99.2* | | *100* | *42-129* | | | | 1 |
| **(B24J0269-MS1), Matrix Spike-Reg** | | **Source: O24J0276-11** | | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/17/2024 18:16* | | | | |
| 4,4'-DDD | 96.5 | 8.94 | ug/Kg dry | 112 | ND | 86 | 56-139 | | | | 1 |
| 4,4'-DDD [2C] | 97.9 | 8.94 | ug/Kg dry | 112 | ND | 88 | 56-139 | | | | 1 |
| 4,4'-DDE | 94.8 | 4.47 | ug/Kg dry | 112 | ND | 85 | 56-134 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Organochlorine Pesticides by GC/ECD

(Continued)

***Batch: B24J0269 - SW3546*** *(Continued)*

**(B24J0269-MS1), Matrix Spike-Reg** (Continued) **Source: O24J0276-11** *Prepared: 10/07/2024 10:15 Analyzed: 10/17/2024 18:33*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE [2C] | 97.8 | 4.47 | ug/Kg dry | 112 | ND | 87 | 56-134 | | | | 1 |
| 4,4'-DDT | 98.9 | 8.94 | ug/Kg dry | 112 | ND | 88 | 50-141 | | | | 1 |
| 4,4'-DDT [2C] | 104 | 8.94 | ug/Kg dry | 112 | ND | 93 | 50-141 | | | | 1 |
| Aldrin | 99.1 | 4.47 | ug/Kg dry | 112 | ND | 89 | 45-136 | | | | 1 |
| Aldrin [2C] | 102 | 4.47 | ug/Kg dry | 112 | ND | 91 | 45-136 | | | | 1 |
| alpha-BHC | 95.6 | 4.47 | ug/Kg dry | 112 | ND | 86 | 45-137 | | | | 1 |
| alpha-BHC [2C] | 95.6 | 4.47 | ug/Kg dry | 112 | ND | 86 | 45-137 | | | | 1 |
| alpha-Chlordane | 94.3 | 4.47 | ug/Kg dry | 112 | ND | 84 | 54-133 | | | | 1 |
| alpha-Chlordane [2C] | 96.6 | 4.47 | ug/Kg dry | 112 | ND | 86 | 54-133 | | | | 1 |
| beta-BHC | 95.0 | 8.94 | ug/Kg dry | 112 | ND | 85 | 50-136 | | | | 1 |
| beta-BHC [2C] | 95.5 | 8.94 | ug/Kg dry | 112 | ND | 85 | 50-136 | | | | 1 |
| delta-BHC | 100 | 4.47 | ug/Kg dry | 112 | ND | 90 | 47-139 | | | | 1 |
| delta-BHC [2C] | 102 | 4.47 | ug/Kg dry | 112 | ND | 91 | 47-139 | | | | 1 |
| Dieldrin | 97.0 | 4.47 | ug/Kg dry | 112 | ND | 87 | 56-136 | | | | 1 |
| Dieldrin [2C] | 99.0 | 4.47 | ug/Kg dry | 112 | ND | 89 | 56-136 | | | | 1 |
| Endosulfan I | 96.9 | 4.47 | ug/Kg dry | 112 | ND | 87 | 53-132 | | | | 1 |
| Endosulfan I [2C] | 99.2 | 4.47 | ug/Kg dry | 112 | ND | 89 | 53-132 | | | | 1 |
| Endosulfan II | 95.2 | 4.47 | ug/Kg dry | 112 | ND | 85 | 53-134 | | | | 1 |
| Endosulfan II [2C] | 95.6 | 4.47 | ug/Kg dry | 112 | ND | 86 | 53-134 | | | | 1 |
| Endosulfan sulfate | 93.8 | 8.94 | ug/Kg dry | 112 | ND | 84 | 55-136 | | | | 1 |
| Endosulfan sulfate [2C] | 95.4 | 8.94 | ug/Kg dry | 112 | ND | 85 | 55-136 | | | | 1 |
| Endrin | 96.5 | 4.47 | ug/Kg dry | 112 | ND | 86 | 57-140 | | | | 1 |
| Endrin [2C] | 98.5 | 4.47 | ug/Kg dry | 112 | ND | 88 | 57-140 | | | | 1 |
| Endrin aldehyde | 96.4 | 8.94 | ug/Kg dry | 112 | ND | 86 | 35-137 | | | | 1 |
| Endrin aldehyde [2C] | 96.5 | 8.94 | ug/Kg dry | 112 | ND | 86 | 35-137 | | | | 1 |
| Endrin ketone | 99.4 | 8.94 | ug/Kg dry | 112 | ND | 89 | 55-136 | | | | 1 |
| Endrin ketone [2C] | 103 | 8.94 | ug/Kg dry | 112 | ND | 92 | 55-136 | | | | 1 |
| gamma-BHC | 99.0 | 4.47 | ug/Kg dry | 112 | ND | 89 | 49-135 | | | | 1 |
| gamma-BHC [2C] | 101 | 4.47 | ug/Kg dry | 112 | ND | 90 | 49-135 | | | | 1 |
| gamma-Chlordane | 97.4 | 8.94 | ug/Kg dry | 112 | ND | 87 | 53-135 | | | | 1 |
| gamma-Chlordane [2C] | 101 | 8.94 | ug/Kg dry | 112 | ND | 91 | 53-135 | | | | 1 |
| Heptachlor | 97.8 | 4.47 | ug/Kg dry | 112 | ND | 88 | 47-136 | | | | 1 |
| Heptachlor [2C] | 101 | 4.47 | ug/Kg dry | 112 | ND | 91 | 47-136 | | | | 1 |
| Heptachlor epoxide | 98.2 | 4.47 | ug/Kg dry | 112 | ND | 88 | 52-136 | | | | 1 |
| Heptachlor epoxide [2C] | 100 | 4.47 | ug/Kg dry | 112 | ND | 90 | 52-136 | | | | 1 |
| Methoxychlor | 104 | 8.94 | ug/Kg dry | 112 | ND | 93 | 52-143 | | | | 1 |
| Methoxychlor [2C] | 100 | 8.94 | ug/Kg dry | 112 | ND | 90 | 52-143 | | | | 1 |
| *Surrogate: Decachlorobiphenyl* | *113* | | *ug/Kg dry* | *112* | | *101* | *23-110* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *155* | | *ug/Kg dry* | *112* | | *139* | *23-110* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *114* | | *ug/Kg dry* | *112* | | *102* | *42-129* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Organochlorine Pesticides by GC/ECD

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0269 - SW3546*** *(Continued)* | | | | | | | | | | | |
| **(B24J0269-MS1), Matrix Spike-Reg** (Continued) | | | | **Source: O24J0276-11** | | *Prepared: 10/07/2024 10:15* | *Analyzed: 10/17/2024 18:33* | | | | |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *112* | | *ug/Kg dry* | *112* | | *100* | *42-129* | | | | 1 |
| **(B24J0269-MS2), Matrix Spike-Tox** | | | | **Source: O24J0276-11** | | *Prepared: 10/07/2024 10:15* | *Analyzed: 10/17/2024 18:33* | | | | |
| Toxaphene | 2,870 | 554 | ug/Kg dry | 3,330 | ND | 86 | 33-141 | | | | 1 |
| Toxaphene [2C] | 2,900 | 554 | ug/Kg dry | 3,330 | ND | 87 | 33-141 | | | | 1 |
| *Surrogate: Decachlorobiphenyl* | *118* | | *ug/Kg dry* | *111* | | *106* | *23-110* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *156* | | *ug/Kg dry* | *111* | | *141* | *23-110* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *110* | | *ug/Kg dry* | *111* | | *99* | *42-129* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *111* | | *ug/Kg dry* | *111* | | *100* | *42-129* | | | | 1 |
| **(B24J0269-MS3), Matrix Spike-Chlor** | | | | **Source: O24J0276-11** | | *Prepared: 10/07/2024 10:15* | *Analyzed: 10/17/2024 18:50* | | | | |
| Chlordane | 919 | 44.3 | ug/Kg dry | 1,110 | ND | 83 | 43-149 | | | | 1 |
| Chlordane [2C] | 951 | 44.3 | ug/Kg dry | 1,110 | ND | 86 | 43-149 | | | | 1 |
| *Surrogate: Decachlorobiphenyl* | *108* | | *ug/Kg dry* | *111* | | *98* | *23-110* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *150* | | *ug/Kg dry* | *111* | | *135* | *23-110* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *109* | | *ug/Kg dry* | *111* | | *98* | *42-129* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *109* | | *ug/Kg dry* | *111* | | *98* | *42-129* | | | | 1 |
| **(B24J0269-MSD1), Matrix Spike Dup-Reg** | | | | **Source: O24J0276-11** | | *Prepared: 10/07/2024 10:15* | *Analyzed: 10/17/2024 19:06* | | | | |
| 4,4'-DDD | 92.2 | 8.87 | ug/Kg dry | 111 | ND | 83 | 56-139 | 5 | 30 | | 1 |
| 4,4'-DDD [2C] | 93.8 | 8.87 | ug/Kg dry | 111 | ND | 85 | 56-139 | 4 | 30 | | 1 |
| 4,4'-DDE | 90.7 | 4.44 | ug/Kg dry | 111 | ND | 82 | 56-134 | 4 | 30 | | 1 |
| 4,4'-DDE [2C] | 93.8 | 4.44 | ug/Kg dry | 111 | ND | 85 | 56-134 | 4 | 30 | | 1 |
| 4,4'-DDT | 94.6 | 8.87 | ug/Kg dry | 111 | ND | 85 | 50-141 | 4 | 30 | | 1 |
| 4,4'-DDT [2C] | 99.4 | 8.87 | ug/Kg dry | 111 | ND | 90 | 50-141 | 4 | 30 | | 1 |
| Aldrin | 94.6 | 4.44 | ug/Kg dry | 111 | ND | 85 | 45-136 | 5 | 30 | | 1 |
| Aldrin [2C] | 98.3 | 4.44 | ug/Kg dry | 111 | ND | 89 | 45-136 | 4 | 30 | | 1 |
| alpha-BHC | 90.9 | 4.44 | ug/Kg dry | 111 | ND | 82 | 45-137 | 5 | 30 | | 1 |
| alpha-BHC [2C] | 92.0 | 4.44 | ug/Kg dry | 111 | ND | 83 | 45-137 | 4 | 30 | | 1 |
| alpha-Chlordane | 90.1 | 4.44 | ug/Kg dry | 111 | ND | 81 | 54-133 | 5 | 30 | | 1 |
| alpha-Chlordane [2C] | 93.2 | 4.44 | ug/Kg dry | 111 | ND | 84 | 54-133 | 4 | 30 | | 1 |
| beta-BHC | 90.0 | 8.87 | ug/Kg dry | 111 | ND | 81 | 50-136 | 5 | 30 | | 1 |
| beta-BHC [2C] | 91.2 | 8.87 | ug/Kg dry | 111 | ND | 82 | 50-136 | 5 | 30 | | 1 |
| delta-BHC | 94.4 | 4.44 | ug/Kg dry | 111 | ND | 85 | 47-139 | 6 | 30 | | 1 |
| delta-BHC [2C] | 96.9 | 4.44 | ug/Kg dry | 111 | ND | 87 | 47-139 | 5 | 30 | | 1 |
| Dieldrin | 92.6 | 4.44 | ug/Kg dry | 111 | ND | 84 | 56-136 | 5 | 30 | | 1 |
| Dieldrin [2C] | 94.9 | 4.44 | ug/Kg dry | 111 | ND | 86 | 56-136 | 4 | 30 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Organochlorine Pesticides by GC/ECD

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0269 - SW3546*** *(Continued)* | | | | | | | | | | | |
| **(B24J0269-MSD1), Matrix Spike Dup-Reg** (Co | | | **Source: O24J0276-11** | *Prepared: 10/07/2024 10:15* | | *Analyzed: 10/17/2024 19:06* | | | | | |
| Endosulfan I | 92.3 | 4.44 | ug/Kg dry | 111 | ND | 83 | 53-132 | 5 | 30 | | 1 |
| Endosulfan I [2C] | 95.6 | 4.44 | ug/Kg dry | 111 | ND | 86 | 53-132 | 4 | 30 | | 1 |
| Endosulfan II | 90.1 | 4.44 | ug/Kg dry | 111 | ND | 81 | 53-134 | 6 | 30 | | 1 |
| Endosulfan II [2C] | 91.1 | 4.44 | ug/Kg dry | 111 | ND | 82 | 53-134 | 5 | 30 | | 1 |
| Endosulfan sulfate | 87.6 | 8.87 | ug/Kg dry | 111 | ND | 79 | 55-136 | 7 | 30 | | 1 |
| Endosulfan sulfate [2C] | 89.7 | 8.87 | ug/Kg dry | 111 | ND | 81 | 55-136 | 6 | 30 | | 1 |
| Endrin | 92.2 | 4.44 | ug/Kg dry | 111 | ND | 83 | 57-140 | 5 | 30 | | 1 |
| Endrin [2C] | 94.3 | 4.44 | ug/Kg dry | 111 | ND | 85 | 57-140 | 4 | 30 | | 1 |
| Endrin aldehyde | 90.4 | 8.87 | ug/Kg dry | 111 | ND | 82 | 35-137 | 6 | 30 | | 1 |
| Endrin aldehyde [2C] | 89.9 | 8.87 | ug/Kg dry | 111 | ND | 81 | 35-137 | 7 | 30 | | 1 |
| Endrin ketone | 94.1 | 8.87 | ug/Kg dry | 111 | ND | 85 | 55-136 | 5 | 30 | | 1 |
| Endrin ketone [2C] | 98.0 | 8.87 | ug/Kg dry | 111 | ND | 88 | 55-136 | 5 | 30 | | 1 |
| gamma-BHC | 94.0 | 4.44 | ug/Kg dry | 111 | ND | 85 | 49-135 | 5 | 30 | | 1 |
| gamma-BHC [2C] | 97.2 | 4.44 | ug/Kg dry | 111 | ND | 88 | 49-135 | 4 | 30 | | 1 |
| gamma-Chlordane | 93.1 | 8.87 | ug/Kg dry | 111 | ND | 84 | 53-135 | 4 | 30 | | 1 |
| gamma-Chlordane [2C] | 97.0 | 8.87 | ug/Kg dry | 111 | ND | 87 | 53-135 | 4 | 30 | | 1 |
| Heptachlor | 93.4 | 4.44 | ug/Kg dry | 111 | ND | 84 | 47-136 | 5 | 30 | | 1 |
| Heptachlor [2C] | 97.5 | 4.44 | ug/Kg dry | 111 | ND | 88 | 47-136 | 4 | 30 | | 1 |
| Heptachlor epoxide | 93.3 | 4.44 | ug/Kg dry | 111 | ND | 84 | 52-136 | 5 | 30 | | 1 |
| Heptachlor epoxide [2C] | 96.8 | 4.44 | ug/Kg dry | 111 | ND | 87 | 52-136 | 3 | 30 | | 1 |
| Methoxychlor | 98.5 | 8.87 | ug/Kg dry | 111 | ND | 89 | 52-143 | 5 | 30 | | 1 |
| Methoxychlor [2C] | 94.8 | 8.87 | ug/Kg dry | 111 | ND | 86 | 52-143 | 6 | 30 | | 1 |
| *Surrogate: Decachlorobiphenyl* | *106* | | *ug/Kg dry* | *111* | | *96* | *23-110* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *146* | | *ug/Kg dry* | *111* | | *131* | *23-110* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *106* | | *ug/Kg dry* | *111* | | *96* | *42-129* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *106* | | *ug/Kg dry* | *111* | | *96* | *42-129* | | | | 1 |
| **(B24J0269-MSD2), Matrix Spike Dup-Tox** | | | **Source: O24J0276-11** | *Prepared: 10/07/2024 10:15* | | *Analyzed: 10/17/2024 19:23* | | | | | |
| Toxaphene | 2,830 | 562 | ug/Kg dry | 3,370 | ND | 84 | 33-141 | 1 | 30 | | 1 |
| Toxaphene [2C] | 2,930 | 562 | ug/Kg dry | 3,370 | ND | 87 | 33-141 | 1 | 30 | | 1 |
| *Surrogate: Decachlorobiphenyl* | *119* | | *ug/Kg dry* | *112* | | *106* | *23-110* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *157* | | *ug/Kg dry* | *112* | | *139* | *23-110* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *111* | | *ug/Kg dry* | *112* | | *98* | *42-129* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *111* | | *ug/Kg dry* | *112* | | *99* | *42-129* | | | | 1 |
| **(B24J0269-MSD3), Matrix Spike Dup-Chlor** | | | **Source: O24J0276-11** | *Prepared: 10/07/2024 10:15* | | *Analyzed: 10/17/2024 19:40* | | | | | |
| Chlordane | 739 | 43.8 | ug/Kg dry | 1,100 | ND | 67 | 43-149 | 22 | 30 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Organochlorine Pesticides by GC/ECD

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0269 - SW3546*** *(Continued)* | | | | | | | | | | | |
| **(B24J0269-MSD3), Matrix Spike Dup-Chlor** (C | | | **Source: O24J0276-11** | *Prepared: 10/07/2024 10:15* | | | *Analyzed: 10/17/2024 19:56* | | | | |
| Chlordane [2C] | 764 | 43.8 | ug/Kg dry | 1,100 | ND | 70 | 43-149 | 22 | 30 | | 1 |
| *Surrogate: Decachlorobiphenyl* | *88.3* | | *ug/Kg dry* | *110* | | *81* | *23-110* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *124* | | *ug/Kg dry* | *110* | | *114* | *23-110* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *89.2* | | *ug/Kg dry* | *110* | | *81* | *42-129* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *90.1* | | *ug/Kg dry* | *110* | | *82* | *42-129* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Metals by ICP-AES

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0437 - SW3050*** | | | | | | | | | | | |
| **(B24J0437-BLK1), BLK** | | | | *Prepared: 10/08/2024 13:32* | | | *Analyzed: 10/09/2024 13:14* | | | | |
| Aluminum | <5.00 | 6.25 | mg/Kg wet | | | | | | | U | 1 |
| Antimony | <1.00 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Arsenic | <1.00 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Barium | <0.500 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Beryllium | <0.100 | 0.125 | mg/Kg wet | | | | | | | U | 1 |
| Cadmium | <0.0500 | 0.125 | mg/Kg wet | | | | | | | U | 1 |
| Calcium | 15.4 | 12.5 | mg/Kg wet | | | | | | | | 1 |
| Chromium | <1.00 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Cobalt | <0.500 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Copper | <1.00 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Iron | 4.94 | 6.25 | mg/Kg wet | | | | | | | J | 1 |
| Lead | <1.00 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Magnesium | 7.93 | 6.25 | mg/Kg wet | | | | | | | | 1 |
| Manganese | <0.500 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Nickel | <0.500 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Potassium | 9.23 | 12.5 | mg/Kg wet | | | | | | | J | 1 |
| Selenium | <1.00 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Silver | <1.00 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Sodium | 22.2 | 12.5 | mg/Kg wet | | | | | | | | 1 |
| Thallium | <1.00 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Vanadium | <0.500 | 1.25 | mg/Kg wet | | | | | | | U | 1 |
| Zinc | <2.50 | 5.00 | mg/Kg wet | | | | | | | U | 1 |
| **(B24J0437-BS1), BS** | | | | *Prepared: 10/08/2024 13:32* | | | *Analyzed: 10/09/2024 13:19* | | | | |
| Aluminum | 26.9 | 12.5 | mg/Kg wet | 25.0 | | 108 | 84.5-111 | | | | 1 |
| Antimony | 13.0 | 2.50 | mg/Kg wet | 12.5 | | 104 | 80-105 | | | | 1 |
| Arsenic | 26.0 | 2.50 | mg/Kg wet | 25.0 | | 104 | 80-107 | | | | 1 |
| Barium | 25.9 | 2.50 | mg/Kg wet | 25.0 | | 103 | 80-109 | | | | 1 |
| Beryllium | 26.7 | 0.250 | mg/Kg wet | 25.0 | | 107 | 81.9-112 | | | | 1 |
| Cadmium | 26.6 | 0.250 | mg/Kg wet | 25.0 | | 106 | 80-110 | | | | 1 |
| Calcium | 354 | 25.0 | mg/Kg wet | 300 | | 118 | 80-120 | | | B | 1 |
| Chromium | 27.0 | 2.50 | mg/Kg wet | 25.0 | | 108 | 80-111 | | | | 1 |
| Cobalt | 26.4 | 2.50 | mg/Kg wet | 25.0 | | 106 | 85-110 | | | | 1 |
| Copper | 26.5 | 2.50 | mg/Kg wet | 25.0 | | 106 | 84.8-108 | | | | 1 |
| Iron | 320 | 12.5 | mg/Kg wet | 300 | | 107 | 95.4-120 | | | B | 1 |
| Lead | 27.2 | 2.50 | mg/Kg wet | 25.0 | | 109 | 80-111 | | | | 1 |
| Magnesium | 346 | 12.5 | mg/Kg wet | 300 | | 115 | 80-111 | | | B | 1 |
| Manganese | 27.4 | 2.50 | mg/Kg wet | 25.0 | | 109 | 82.3-108 | | | S | 1 |
| Nickel | 27.1 | 2.50 | mg/Kg wet | 25.0 | | 108 | 83.5-107 | | | S | 1 |
| Potassium | 339 | 25.0 | mg/Kg wet | 300 | | 113 | 89.6-117 | | | B | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Metals by ICP-AES

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0437 - SW3050*** *(Continued)* | | | | | | | | | | | |
| **(B24J0437-BS1), BS** (Continued) | | | | *Prepared: 10/08/2024 13:32* | | | *Analyzed: 10/09/2024 13:19* | | | | |
| Selenium | 27.0 | 2.50 | mg/Kg wet | 25.0 | | 108 | 80-106 | | | S | 1 |
| Silver | 10.4 | 2.50 | mg/Kg wet | 10.0 | | 104 | 80-116 | | | | 1 |
| Sodium | 380 | 25.0 | mg/Kg wet | 300 | | 126 | 80-109 | | | B | 1 |
| Thallium | 26.6 | 2.50 | mg/Kg wet | 25.0 | | 106 | 80-112 | | | | 1 |
| Vanadium | 26.0 | 2.50 | mg/Kg wet | 25.0 | | 104 | 84.7-109 | | | | 1 |
| Zinc | 27.5 | 10.0 | mg/Kg wet | 25.0 | | 110 | 80-110 | | | | 1 |
| **(B24J0437-DUP1), Serial Dilution** | | | | **Source: O24J0276-11** | *Prepared: 10/08/2024 13:32* | | *Analyzed: 10/09/2024 15:18* | | | | |
| Aluminum | 7,660 | 33.6 | mg/Kg dry | | 7,550 | | | 1 | 10 | D, E | 5 |
| Antimony | <5.38 | 6.72 | mg/Kg dry | | ND | | | | 10 | U | 5 |
| Arsenic | <5.38 | 6.72 | mg/Kg dry | | ND | | | | 10 | U | 5 |
| Barium | 36.3 | 6.72 | mg/Kg dry | | 35.8 | | | 1 | 10 | D | 5 |
| Beryllium | <0.538 | 0.672 | mg/Kg dry | | ND | | | | 10 | U | 5 |
| Cadmium | 0.296 | 0.672 | mg/Kg dry | | 0.245 | | | 19 | 10 | P, J, D | 5 |
| Calcium | 814 | 67.2 | mg/Kg dry | | 782 | | | 4 | 10 | D, B | 5 |
| Chromium | 11.8 | 6.72 | mg/Kg dry | | 11.6 | | | 2 | 10 | D | 5 |
| Cobalt | 2.82 | 6.72 | mg/Kg dry | | 2.78 | | | 2 | 10 | J, D | 5 |
| Copper | 3.98 | 6.72 | mg/Kg dry | | 4.02 | | | 0.9 | 10 | J, D | 5 |
| Iron | 10,900 | 33.6 | mg/Kg dry | | 9,920 | | | 9 | 10 | D, B | 5 |
| Lead | 32.5 | 6.72 | mg/Kg dry | | 32.0 | | | 1 | 10 | D | 5 |
| Magnesium | 440 | 33.6 | mg/Kg dry | | 424 | | | 4 | 10 | D, B | 5 |
| Manganese | 233 | 6.72 | mg/Kg dry | | 220 | | | 6 | 10 | D, E | 5 |
| Nickel | 4.03 | 6.72 | mg/Kg dry | | 3.35 | | | 18 | 10 | P, J, D | 5 |
| Potassium | 259 | 67.2 | mg/Kg dry | | 262 | | | 1 | 10 | D, B | 5 |
| Selenium | <5.38 | 6.72 | mg/Kg dry | | ND | | | | 10 | U | 5 |
| Silver | <5.38 | 6.72 | mg/Kg dry | | ND | | | | 10 | U | 5 |
| Sodium | 58.3 | 67.2 | mg/Kg dry | | 58.6 | | | 0.5 | 10 | J, D, B | 5 |
| Thallium | <5.38 | 6.72 | mg/Kg dry | | ND | | | | 10 | U | 5 |
| Vanadium | 20.6 | 6.72 | mg/Kg dry | | 20.2 | | | 2 | 10 | D | 5 |
| Zinc | 8.83 | 26.9 | mg/Kg dry | | 8.63 | | | 2 | 10 | J, D | 5 |
| **(B24J0437-DUP2), Serial Dilution** | | | | **ɔurce: O24J0276-11RS1** | *Prepared: 10/08/2024 13:32* | | *Analyzed: 10/09/2024 17:00* | | | | |
| Aluminum | 7,380 | 336 | mg/Kg dry | | 7,610 | | | 3 | 10 | D, E | 50 |
| Antimony | <53.8 | 67.2 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Arsenic | <53.8 | 67.2 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Barium | 35.2 | 67.2 | mg/Kg dry | | 36.2 | | | 3 | 10 | J, D | 50 |
| Beryllium | <5.38 | 6.72 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Cadmium | <2.69 | 6.72 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Calcium | 786 | 672 | mg/Kg dry | | 807 | | | 3 | 10 | D, B | 50 |

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# Quality Control

(Continued)

**Client:** Lynn Utz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

## Metals by ICP-AES

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0437 - SW3050*** *(Continued)* | | | | | | | | | | | |
| **(B24J0437-DUP2), Serial Dilution** (Continued) | | | | **ource: O24J0276-11RS1** | *Prepared: 10/08/2024 13:32 Analyzed: 10/09/2024 17:00* | | | | | | |
| Chromium | <53.8 | 67.2 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Cobalt | <26.9 | 67.2 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Copper | <53.8 | 67.2 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Iron | 10,800 | 336 | mg/Kg dry | | 10,900 | | | 1 | 10 | D, B | 50 |
| Lead | 23.4 | 67.2 | mg/Kg dry | | 30.9 | | | 28 | 10 | J, D | 50 |
| Magnesium | 416 | 336 | mg/Kg dry | | 437 | | | 5 | 10 | D, B | 50 |
| Manganese | 225 | 67.2 | mg/Kg dry | | 233 | | | 3 | 10 | D | 50 |
| Nickel | <26.9 | 67.2 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Potassium | <645 | 672 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Selenium | <53.8 | 67.2 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Silver | <53.8 | 67.2 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Sodium | <645 | 672 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Thallium | <53.8 | 67.2 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Vanadium | 21.2 | 67.2 | mg/Kg dry | | 20.4 | | | 4 | 10 | J, D | 50 |
| Zinc | <134 | 269 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| **(B24J0437-MS1), MS** | | | | **Source: O24J0276-11** | *Prepared: 10/08/2024 13:32 Analyzed: 10/09/2024 14:57* | | | | | | |
| Aluminum | 7,970 | 6.72 | mg/Kg dry | 13.4 | 7,550 | 3,090 | 74-119 | | | E | 1 |
| Antimony | <1.08 | 1.34 | mg/Kg dry | 6.72 | ND | 0 | 79-114 | | | S, U | 1 |
| Arsenic | 12.8 | 1.34 | mg/Kg dry | 13.4 | 0.519 | 91 | 82-111 | | | | 1 |
| Barium | 51.5 | 1.34 | mg/Kg dry | 13.4 | 35.8 | 117 | 83-113 | | | E | 1 |
| Beryllium | 14.4 | 0.134 | mg/Kg dry | 13.4 | 0.105 | 107 | 83-113 | | | | 1 |
| Cadmium | 13.7 | 0.134 | mg/Kg dry | 13.4 | 0.245 | 100 | 82-113 | | | | 1 |
| Calcium | 879 | 13.4 | mg/Kg dry | 161 | 782 | 60 | 81-116 | | | B | 1 |
| Chromium | 25.3 | 1.34 | mg/Kg dry | 13.4 | 11.6 | 102 | 85-113 | | | E | 1 |
| Cobalt | 16.7 | 1.34 | mg/Kg dry | 13.4 | 2.78 | 103 | 85-112 | | | | 1 |
| Copper | 17.7 | 1.34 | mg/Kg dry | 13.4 | 4.02 | 102 | 81-117 | | | | 1 |
| Iron | 9,010 | 6.72 | mg/Kg dry | 161 | 9,920 | NR | 81-118 | | | B, E | 1 |
| Lead | 48.9 | 1.34 | mg/Kg dry | 13.4 | 32.0 | 125 | 81-112 | | | E | 1 |
| Magnesium | 594 | 6.72 | mg/Kg dry | 161 | 424 | 106 | 78-115 | | | B | 1 |
| Manganese | 289 | 1.34 | mg/Kg dry | 13.4 | 220 | 516 | 84-114 | | | E | 1 |
| Nickel | 17.0 | 1.34 | mg/Kg dry | 13.4 | 3.35 | 102 | 83-113 | | | | 1 |
| Potassium | 427 | 13.4 | mg/Kg dry | 161 | 262 | 102 | 81-116 | | | B | 1 |
| Selenium | 10.2 | 1.34 | mg/Kg dry | 13.4 | ND | 76 | 78-111 | | | S | 1 |
| Silver | 5.21 | 1.34 | mg/Kg dry | 5.38 | ND | 97 | 82-112 | | | | 1 |
| Sodium | 240 | 13.4 | mg/Kg dry | 161 | 58.6 | 113 | 83-118 | | | B | 1 |
| Thallium | 12.3 | 1.34 | mg/Kg dry | 13.4 | ND | 92 | 83-111 | | | | 1 |
| Vanadium | 32.1 | 1.34 | mg/Kg dry | 13.4 | 20.2 | 89 | 82-114 | | | E | 1 |
| Zinc | 22.7 | 5.38 | mg/Kg dry | 13.4 | 8.63 | 105 | 82-113 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Metals by ICP-AES

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0437 - SW3050*** *(Continued)* | | | | | | | | | | | |
| **(B24J0437-MS2), MS** | | | | **ɔurce: O24J0276-11RS1** | | *Prepared: 10/08/2024 13:32* | | *Analyzed: 10/09/2024 16:40* | | | |
| Aluminum | 8,300 | 67.2 | mg/Kg dry | 13.4 | 7,610 | 5,150 | 74-119 | | | D, E | 10 |
| Antimony | <10.8 | 13.4 | mg/Kg dry | 6.72 | ND | 0 | 79-114 | | | U | 10 |
| Arsenic | 15.4 | 13.4 | mg/Kg dry | 13.4 | ND | 115 | 82-111 | | | D | 10 |
| Barium | 53.9 | 13.4 | mg/Kg dry | 13.4 | 36.2 | 131 | 83-113 | | | D | 10 |
| Beryllium | 14.7 | 1.34 | mg/Kg dry | 13.4 | ND | 110 | 83-113 | | | D | 10 |
| Cadmium | 14.7 | 1.34 | mg/Kg dry | 13.4 | 0.349 | 107 | 82-113 | | | D | 10 |
| Calcium | 934 | 134 | mg/Kg dry | 161 | 807 | 79 | 81-116 | | | D, B | 10 |
| Chromium | 26.2 | 13.4 | mg/Kg dry | 13.4 | 11.3 | 111 | 85-113 | | | D | 10 |
| Cobalt | 17.9 | 13.4 | mg/Kg dry | 13.4 | 2.50 | 114 | 85-112 | | | D | 10 |
| Copper | 18.7 | 13.4 | mg/Kg dry | 13.4 | 3.95 | 110 | 81-117 | | | D | 10 |
| Iron | 10,200 | 67.2 | mg/Kg dry | 161 | 10,900 | NR | 81-118 | | | D, B | 10 |
| Lead | 53.2 | 13.4 | mg/Kg dry | 13.4 | 30.9 | 166 | 81-112 | | | D | 10 |
| Magnesium | 634 | 67.2 | mg/Kg dry | 161 | 437 | 122 | 78-115 | | | D, B | 10 |
| Manganese | 315 | 13.4 | mg/Kg dry | 13.4 | 233 | 610 | 84-114 | | | D, E | 10 |
| Nickel | 19.0 | 13.4 | mg/Kg dry | 13.4 | 3.84 | 113 | 83-113 | | | D | 10 |
| Potassium | 451 | 134 | mg/Kg dry | 161 | 268 | 113 | 81-116 | | | D, B | 10 |
| Selenium | 13.0 | 13.4 | mg/Kg dry | 13.4 | ND | 97 | 78-111 | | | J, D | 10 |
| Silver | 4.81 | 13.4 | mg/Kg dry | 5.38 | ND | 90 | 82-112 | | | J, D | 10 |
| Sodium | 256 | 134 | mg/Kg dry | 161 | ND | 158 | 83-118 | | | D, B | 10 |
| Thallium | 11.2 | 13.4 | mg/Kg dry | 13.4 | ND | 84 | 83-111 | | | J, D | 10 |
| Vanadium | 33.8 | 13.4 | mg/Kg dry | 13.4 | 20.4 | 99 | 82-114 | | | D | 10 |
| Zinc | 24.0 | 53.8 | mg/Kg dry | 13.4 | ND | 179 | 82-113 | | | J, D | 10 |
| **(B24J0437-MSD1), MSD** | | | | **Source: O24J0276-11** | | *Prepared: 10/08/2024 13:32* | | *Analyzed: 10/09/2024 15:02* | | | |
| Aluminum | 8,700 | 6.71 | mg/Kg dry | 13.4 | 7,550 | 8,570 | 74-119 | 9 | 20 | E | 1 |
| Antimony | <1.07 | 1.34 | mg/Kg dry | 6.71 | ND | 0 | 79-114 | | 20 | S, U | 1 |
| Arsenic | 12.5 | 1.34 | mg/Kg dry | 13.4 | 0.519 | 89 | 82-111 | 3 | 20 | | 1 |
| Barium | 41.2 | 1.34 | mg/Kg dry | 13.4 | 35.8 | 41 | 83-113 | 22 | 20 | E | 1 |
| Beryllium | 13.4 | 0.134 | mg/Kg dry | 13.4 | 0.105 | 99 | 83-113 | 7 | 20 | | 1 |
| Cadmium | 13.0 | 0.134 | mg/Kg dry | 13.4 | 0.245 | 95 | 82-113 | 5 | 20 | | 1 |
| Calcium | 882 | 13.4 | mg/Kg dry | 161 | 782 | 63 | 81-116 | 0.4 | 20 | B | 1 |
| Chromium | 26.9 | 1.34 | mg/Kg dry | 13.4 | 11.6 | 114 | 85-113 | 6 | 20 | E | 1 |
| Cobalt | 14.6 | 1.34 | mg/Kg dry | 13.4 | 2.78 | 88 | 85-112 | 13 | 20 | | 1 |
| Copper | 16.6 | 1.34 | mg/Kg dry | 13.4 | 4.02 | 94 | 81-117 | 6 | 20 | | 1 |
| Iron | 9,550 | 6.71 | mg/Kg dry | 161 | 9,920 | NR | 81-118 | 6 | 20 | B, E | 1 |
| Lead | 40.3 | 1.34 | mg/Kg dry | 13.4 | 32.0 | 62 | 81-112 | 19 | 20 | E | 1 |
| Magnesium | 606 | 6.71 | mg/Kg dry | 161 | 424 | 113 | 78-115 | 2 | 20 | B | 1 |
| Manganese | 155 | 1.34 | mg/Kg dry | 13.4 | 220 | NR | 84-114 | 60 | 20 | E | 1 |
| Nickel | 16.6 | 1.34 | mg/Kg dry | 13.4 | 3.35 | 99 | 83-113 | 2 | 20 | | 1 |
| Potassium | 431 | 13.4 | mg/Kg dry | 161 | 262 | 105 | 81-116 | 0.9 | 20 | B | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Metals by ICP-AES

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0437 - SW3050*** *(Continued)* | | | | | | | | | | | |
| **(B24J0437-MSD1), MSD** (Continued) | | | | **Source: O24J0276-11** | | *Prepared: 10/08/2024 13:32* | | *Analyzed: 10/09/2024 15:02* | | | |
| Selenium | 9.66 | 1.34 | mg/Kg dry | 13.4 | ND | 72 | 78-111 | 6 | 20 | S | 1 |
| Silver | 4.90 | 1.34 | mg/Kg dry | 5.37 | ND | 91 | 82-112 | 6 | 20 | | 1 |
| Sodium | 224 | 13.4 | mg/Kg dry | 161 | 58.6 | 102 | 83-118 | 7 | 20 | B | 1 |
| Thallium | 11.5 | 1.34 | mg/Kg dry | 13.4 | ND | 86 | 83-111 | 7 | 20 | | 1 |
| Vanadium | 31.7 | 1.34 | mg/Kg dry | 13.4 | 20.2 | 85 | 82-114 | 1 | 20 | E | 1 |
| Zinc | 22.2 | 5.37 | mg/Kg dry | 13.4 | 8.63 | 101 | 82-113 | 2 | 20 | | 1 |
| **(B24J0437-MSD2), MSD** | | | | **ɔurce: O24J0276-11RS1** | | *Prepared: 10/08/2024 13:32* | | *Analyzed: 10/09/2024 16:52* | | | |
| Aluminum | 9,060 | 67.1 | mg/Kg dry | 13.4 | 7,610 | 10,800 | 74-119 | 9 | 20 | D, E | 10 |
| Antimony | <10.7 | 13.4 | mg/Kg dry | 6.71 | ND | 0 | 79-114 | | 20 | U | 10 |
| Arsenic | 13.9 | 13.4 | mg/Kg dry | 13.4 | ND | 103 | 82-111 | 11 | 20 | D | 10 |
| Barium | 43.7 | 13.4 | mg/Kg dry | 13.4 | 36.2 | 55 | 83-113 | 21 | 20 | D | 10 |
| Beryllium | 13.9 | 1.34 | mg/Kg dry | 13.4 | ND | 103 | 83-113 | 6 | 20 | D | 10 |
| Cadmium | 14.1 | 1.34 | mg/Kg dry | 13.4 | 0.349 | 103 | 82-113 | 4 | 20 | D | 10 |
| Calcium | 941 | 134 | mg/Kg dry | 161 | 807 | 83 | 81-116 | 0.7 | 20 | D, B | 10 |
| Chromium | 28.5 | 13.4 | mg/Kg dry | 13.4 | 11.3 | 128 | 85-113 | 8 | 20 | D | 10 |
| Cobalt | 15.7 | 13.4 | mg/Kg dry | 13.4 | 2.50 | 98 | 85-112 | 13 | 20 | D | 10 |
| Copper | 17.9 | 13.4 | mg/Kg dry | 13.4 | 3.95 | 104 | 81-117 | 5 | 20 | D | 10 |
| Iron | 10,800 | 67.1 | mg/Kg dry | 161 | 10,900 | NR | 81-118 | 6 | 20 | D, B | 10 |
| Lead | 43.1 | 13.4 | mg/Kg dry | 13.4 | 30.9 | 91 | 81-112 | 21 | 20 | D | 10 |
| Magnesium | 646 | 67.1 | mg/Kg dry | 161 | 437 | 130 | 78-115 | 2 | 20 | D, B | 10 |
| Manganese | 168 | 13.4 | mg/Kg dry | 13.4 | 233 | NR | 84-114 | 61 | 20 | D | 10 |
| Nickel | 18.5 | 13.4 | mg/Kg dry | 13.4 | 3.84 | 109 | 83-113 | 3 | 20 | D | 10 |
| Potassium | 446 | 134 | mg/Kg dry | 161 | 268 | 110 | 81-116 | 1 | 20 | D, B | 10 |
| Selenium | 12.2 | 13.4 | mg/Kg dry | 13.4 | ND | 91 | 78-111 | 7 | 20 | J, D | 10 |
| Silver | 5.13 | 13.4 | mg/Kg dry | 5.37 | ND | 96 | 82-112 | 6 | 20 | J, D | 10 |
| Sodium | 237 | 134 | mg/Kg dry | 161 | ND | 147 | 83-118 | 7 | 20 | D, B | 10 |
| Thallium | 13.2 | 13.4 | mg/Kg dry | 13.4 | ND | 98 | 83-111 | 16 | 20 | J, D | 10 |
| Vanadium | 34.1 | 13.4 | mg/Kg dry | 13.4 | 20.4 | 102 | 82-114 | 1 | 20 | D | 10 |
| Zinc | 23.4 | 53.7 | mg/Kg dry | 13.4 | ND | 174 | 82-113 | 3 | 20 | J, D | 10 |
| **(B24J0437-PS1), PS** | | | | **Source: O24J0276-11** | | *Prepared: 10/08/2024 13:32* | | *Analyzed: 10/09/2024 15:14* | | | |
| Aluminum | 7,420 | 7.47 | mg/Kg dry | 14.9 | 7,550 | NR | 80-120 | | | E | 1 |
| Antimony | 12.8 | 1.49 | mg/Kg dry | 14.9 | ND | 86 | 80-120 | | | | 1 |
| Arsenic | 14.6 | 1.49 | mg/Kg dry | 14.9 | 0.519 | 94 | 80-120 | | | | 1 |
| Barium | 48.9 | 1.49 | mg/Kg dry | 14.9 | 35.8 | 88 | 80-120 | | | E | 1 |
| Beryllium | 14.4 | 0.149 | mg/Kg dry | 14.9 | 0.105 | 96 | 80-120 | | | | 1 |
| Cadmium | 14.1 | 0.149 | mg/Kg dry | 14.9 | 0.245 | 93 | 80-120 | | | | 1 |
| Calcium | 779 | 14.9 | mg/Kg dry | 14.9 | 782 | NR | 80-120 | | | B | 1 |

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# Quality Control

(Continued)

**Client:** Lynn Utz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

## Metals by ICP-AES

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0437 - SW3050*** *(Continued)* | | | | | | | | | | | |
| **(B24J0437-PS1), PS** (Continued) | | | | **Source: O24J0276-11** | *Prepared: 10/08/2024 13:32* | | *Analyzed: 10/09/2024 15:14* | | | | |
| Chromium | 25.8 | 1.49 | mg/Kg dry | 14.9 | 11.6 | 95 | 80-120 | | | | 1 |
| Cobalt | 16.7 | 1.49 | mg/Kg dry | 14.9 | 2.78 | 93 | 80-120 | | | | 1 |
| Copper | 18.1 | 1.49 | mg/Kg dry | 14.9 | 4.02 | 94 | 80-120 | | | | 1 |
| Iron | 9,710 | 7.47 | mg/Kg dry | 14.9 | 9,920 | NR | 80-120 | | | B, E | 1 |
| Lead | 47.1 | 1.49 | mg/Kg dry | 14.9 | 32.0 | 101 | 80-120 | | | E | 1 |
| Magnesium | 431 | 7.47 | mg/Kg dry | 14.9 | 424 | 49 | 80-120 | | | B | 1 |
| Manganese | 231 | 1.49 | mg/Kg dry | 14.9 | 220 | 74 | 80-120 | | | E | 1 |
| Nickel | 17.6 | 1.49 | mg/Kg dry | 14.9 | 3.35 | 95 | 80-120 | | | | 1 |
| Potassium | 270 | 14.9 | mg/Kg dry | 14.9 | 262 | 53 | 80-120 | | | B | 1 |
| Selenium | 13.1 | 1.49 | mg/Kg dry | 14.9 | ND | 88 | 80-120 | | | | 1 |
| Silver | 13.8 | 1.49 | mg/Kg dry | 14.9 | ND | 92 | 80-120 | | | | 1 |
| Sodium | 71.6 | 14.9 | mg/Kg dry | 14.9 | 58.6 | 87 | 80-120 | | | B | 1 |
| Thallium | 12.9 | 1.49 | mg/Kg dry | 14.9 | ND | 86 | 80-120 | | | | 1 |
| Vanadium | 34.3 | 1.49 | mg/Kg dry | 14.9 | 20.2 | 94 | 80-120 | | | E | 1 |
| Zinc | 23.5 | 5.97 | mg/Kg dry | 14.9 | 8.63 | 100 | 80-120 | | | | 1 |
| **(B24J0437-PS2), PS** | | | | **ɔurce: O24J0276-11RS1** | *Prepared: 10/08/2024 13:32* | | *Analyzed: 10/09/2024 16:56* | | | | |
| Aluminum | 7,610 | 67.2 | mg/Kg dry | 134 | 7,610 | 2 | 80-120 | | | E | 1 |
| Antimony | 126 | 13.4 | mg/Kg dry | 134 | ND | 94 | 80-120 | | | | 1 |
| Arsenic | 129 | 13.4 | mg/Kg dry | 134 | ND | 96 | 80-120 | | | | 1 |
| Barium | 160 | 13.4 | mg/Kg dry | 134 | 36.2 | 92 | 80-120 | | | | 1 |
| Beryllium | 129 | 1.34 | mg/Kg dry | 134 | ND | 96 | 80-120 | | | | 1 |
| Cadmium | 129 | 1.34 | mg/Kg dry | 134 | 0.349 | 95 | 80-120 | | | | 1 |
| Calcium | 927 | 134 | mg/Kg dry | 134 | 807 | 89 | 80-120 | | | B | 1 |
| Chromium | 143 | 13.4 | mg/Kg dry | 134 | 11.3 | 98 | 80-120 | | | | 1 |
| Cobalt | 130 | 13.4 | mg/Kg dry | 134 | 2.50 | 95 | 80-120 | | | | 1 |
| Copper | 132 | 13.4 | mg/Kg dry | 134 | 3.95 | 95 | 80-120 | | | | 1 |
| Iron | 10,900 | 67.2 | mg/Kg dry | 134 | 10,900 | NR | 80-120 | | | B | 1 |
| Lead | 167 | 13.4 | mg/Kg dry | 134 | 30.9 | 102 | 80-120 | | | | 1 |
| Magnesium | 564 | 67.2 | mg/Kg dry | 134 | 437 | 95 | 80-120 | | | B | 1 |
| Manganese | 365 | 13.4 | mg/Kg dry | 134 | 233 | 98 | 80-120 | | | E | 1 |
| Nickel | 133 | 13.4 | mg/Kg dry | 134 | 3.84 | 96 | 80-120 | | | | 1 |
| Potassium | 387 | 134 | mg/Kg dry | 134 | 268 | 88 | 80-120 | | | B | 1 |
| Selenium | 127 | 13.4 | mg/Kg dry | 134 | ND | 95 | 80-120 | | | | 1 |
| Silver | 106 | 13.4 | mg/Kg dry | 134 | ND | 79 | 80-120 | | | S | 1 |
| Sodium | 188 | 134 | mg/Kg dry | 134 | ND | 140 | 80-120 | | | S, B | 1 |
| Thallium | 128 | 13.4 | mg/Kg dry | 134 | ND | 95 | 80-120 | | | | 1 |
| Vanadium | 152 | 13.4 | mg/Kg dry | 134 | 20.4 | 98 | 80-120 | | | | 1 |
| Zinc | 140 | 53.8 | mg/Kg dry | 134 | ND | 104 | 80-120 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Metals by ICP-AES

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0437 - SW3050*** *(Continued)* | | | | | | | | | | | |
| **(B24J0437-SRM1), SRM** | | | | *Prepared: 10/08/2024 13:32* | | *Analyzed: 10/09/2024 13:31* | | | | | |
| Aluminum | 5,890 | 62.5 | mg/Kg wet | 5,650 | | 104 | 50-150 | | | D, E | 5 |
| Antimony | 28.6 | 12.5 | mg/Kg wet | 76.2 | | 38 | 50-150 | | | S, D | 5 |
| Arsenic | 32.6 | 12.5 | mg/Kg wet | 35.4 | | 92 | 50-150 | | | D | 5 |
| Barium | 279 | 12.5 | mg/Kg wet | 290 | | 96 | 50-150 | | | D, E | 5 |
| Beryllium | 157 | 1.25 | mg/Kg wet | 161 | | 97 | 50-150 | | | D | 5 |
| Cadmium | 68.3 | 1.25 | mg/Kg wet | 73.1 | | 93 | 50-150 | | | D | 5 |
| Calcium | 5,530 | 125 | mg/Kg wet | 5,350 | | 103 | 50-150 | | | D, B | 5 |
| Chromium | 163 | 12.5 | mg/Kg wet | 168 | | 97 | 50-150 | | | D | 5 |
| Cobalt | 84.0 | 12.5 | mg/Kg wet | 90.3 | | 93 | 50-150 | | | D | 5 |
| Copper | 117 | 12.5 | mg/Kg wet | 123 | | 95 | 50-150 | | | D | 5 |
| Iron | 6,680 | 62.5 | mg/Kg wet | 8,470 | | 79 | 50-150 | | | D, B | 5 |
| Lead | 190 | 12.5 | mg/Kg wet | 189 | | 100 | 50-150 | | | D | 5 |
| Magnesium | 8,990 | 62.5 | mg/Kg wet | 9,230 | | 97 | 50-150 | | | D, B | 5 |
| Manganese | 371 | 12.5 | mg/Kg wet | 380 | | 98 | 50-150 | | | D, E | 5 |
| Nickel | 90.6 | 12.5 | mg/Kg wet | 97.3 | | 93 | 50-150 | | | D | 5 |
| Potassium | 7,280 | 125 | mg/Kg wet | 7,470 | | 98 | 50-150 | | | D, B | 5 |
| Selenium | 113 | 12.5 | mg/Kg wet | 122 | | 92 | 50-150 | | | D | 5 |
| Silver | 25.8 | 12.5 | mg/Kg wet | 27.8 | | 92 | 50-150 | | | D | 5 |
| Sodium | 3,860 | 125 | mg/Kg wet | 3,820 | | 101 | 50-150 | | | D, B | 5 |
| Thallium | 19.6 | 12.5 | mg/Kg wet | 24.2 | | 81 | 50-150 | | | D | 5 |
| Vanadium | 39.8 | 12.5 | mg/Kg wet | 45.2 | | 88 | 50-150 | | | D | 5 |
| Zinc | 364 | 50.0 | mg/Kg wet | 376 | | 97 | 50-150 | | | D, E | 5 |
| ***Batch: B24K0386 - SW3050*** | | | | | | | | | | | |
| **(B24K0386-BLK1), BLK** | | | | *Prepared: 11/08/2024 12:32* | | *Analyzed: 11/11/2024 11:55* | | | | | |
| Magnesium | <6.00 | 6.25 | mg/Kg wet | | | | | | | U | 1 |
| Potassium | 34.1 | 12.5 | mg/Kg wet | | | | | | | | 1 |
| Sodium | <12.0 | 12.5 | mg/Kg wet | | | | | | | U | 1 |
| **(B24K0386-BS1), BS** | | | | *Prepared: 11/08/2024 12:32* | | *Analyzed: 11/11/2024 11:59* | | | | | |
| Magnesium | 301 | 12.5 | mg/Kg wet | 300 | | 100 | 80-111 | | | | 1 |
| Potassium | 366 | 25.0 | mg/Kg wet | 300 | | 122 | 89.6-117 | | | S, B | 1 |
| Sodium | 301 | 25.0 | mg/Kg wet | 300 | | 100 | 80-109 | | | | 1 |
| **(B24K0386-DUP1), Serial Dilution** | | **ource: O24J0276-11RS2** | | *Prepared: 11/08/2024 12:32* | | *Analyzed: 11/11/2024 14:01* | | | | | |
| Magnesium | 366 | 290 | mg/Kg dry | | 371 | | | 1 | 10 | D | 50 |
| Potassium | <558 | 581 | mg/Kg dry | | ND | | | | 10 | U | 50 |
| Sodium | <558 | 581 | mg/Kg dry | | ND | | | | 10 | U | 50 |

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## Quality Control
(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Metals by ICP-AES
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24K0386 - SW3050*** *(Continued)* | | | | | | | | | | | |
| **(B24K0386-MS1), MS** | | | | **Source: O24J0276-11RS2** | | *Prepared: 11/08/2024 12:32* | | *Analyzed: 11/11/2024 13:41* | | | |
| Magnesium | 492 | 58.1 | mg/Kg dry | 139 | 371 | 87 | 78-115 | | | D | 10 |
| Potassium | 382 | 116 | mg/Kg dry | 139 | 257 | 90 | 81-116 | | | D, B | 10 |
| Sodium | 177 | 116 | mg/Kg dry | 139 | ND | 127 | 83-118 | | | S, D | 10 |
| **(B24K0386-MSD1), MSD** | | | | **Source: O24J0276-11RS2** | | *Prepared: 11/08/2024 12:32* | | *Analyzed: 11/11/2024 13:53* | | | |
| Magnesium | 454 | 58.1 | mg/Kg dry | 139 | 371 | 60 | 78-115 | 8 | 20 | S, D | 10 |
| Potassium | 332 | 116 | mg/Kg dry | 139 | 257 | 54 | 81-116 | 14 | 20 | S, D, B | 10 |
| Sodium | 167 | 116 | mg/Kg dry | 139 | ND | 120 | 83-118 | 6 | 20 | S, D | 10 |
| **(B24K0386-PS1), PS** | | | | **Source: O24J0276-11RS2** | | *Prepared: 11/08/2024 12:32* | | *Analyzed: 11/11/2024 13:57* | | | |
| Magnesium | 469 | 58.1 | mg/Kg dry | 116 | 371 | 84 | 80-120 | | | | 1 |
| Potassium | 359 | 116 | mg/Kg dry | 116 | 257 | 87 | 80-120 | | | B | 1 |
| Sodium | 161 | 116 | mg/Kg dry | 116 | ND | 139 | 80-120 | | | S | 1 |
| **(B24K0386-SRM1), SRM** | | | | | | *Prepared: 11/08/2024 12:32* | | *Analyzed: 11/11/2024 12:11* | | | |
| Magnesium | 8,020 | 62.5 | mg/Kg wet | 9,200 | | 87 | 65-110 | | | D | 5 |
| Potassium | 6,740 | 125 | mg/Kg wet | 7,440 | | 91 | 61.2-110 | | | D, B | 5 |
| Sodium | 3,290 | 125 | mg/Kg wet | 3,810 | | 86 | 58.4-113 | | | D | 5 |
| ***Batch: B24K0661 - SW3050*** | | | | | | | | | | | |
| **(B24K0661-BLK1), BLK** | | | | | | *Prepared: 11/14/2024 10:25* | | *Analyzed: 11/15/2024 15:41* | | | |
| Potassium | <12.0 | 12.5 | mg/Kg wet | | | | | | | U | 1 |
| **(B24K0661-BS1), BS** | | | | | | *Prepared: 11/14/2024 10:25* | | *Analyzed: 11/15/2024 15:45* | | | |
| Potassium | 321 | 25.0 | mg/Kg wet | 300 | | 107 | 89.6-117 | | | | 1 |
| **(B24K0661-DUP1), Serial Dilution** | | | | **Source: O24J0276-11RX2** | | *Prepared: 11/14/2024 10:25* | | *Analyzed: 11/15/2024 17:26* | | | |
| Potassium | 352 | 69.3 | mg/Kg dry | | 341 | | | 3 | 10 | D | 5 |
| **(B24K0661-MS1), MS** | | | | **Source: O24J0276-11RX2** | | *Prepared: 11/14/2024 10:25* | | *Analyzed: 11/15/2024 17:14* | | | |
| Potassium | 494 | 13.9 | mg/Kg dry | 167 | 341 | 91 | 81-116 | | | | 1 |
| **(B24K0661-MSD1), MSD** | | | | **Source: O24J0276-11RX2** | | *Prepared: 11/14/2024 10:25* | | *Analyzed: 11/15/2024 17:18* | | | |
| Potassium | 481 | 13.2 | mg/Kg dry | 158 | 341 | 89 | 81-116 | 3 | 20 | | 1 |
| **(B24K0661-PS1), PS** | | | | **Source: O24J0276-11RX2** | | *Prepared: 11/14/2024 10:25* | | *Analyzed: 11/15/2024 17:22* | | | |
| Potassium | 361 | 15.4 | mg/Kg dry | 15.4 | 341 | 128 | 80-120 | | | S | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Metals by ICP-AES

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24K0661 - SW3050*** *(Continued)* | | | | | | | | | | | |
| **(B24K0661-SRM1), SRM std 7092-04** | | | | *Prepared: 11/14/2024 10:25* | | | *Analyzed: 11/15/2024 15:58* | | | | |
| Potassium | 6,880 | 125 | mg/Kg wet | 7,610 | | 90 | 61.2-110 | | | D | 5 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Mercury by CVAA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0796*** | | | | | | | | | | | |
| **(B24J0796-BLK1), Blank** | | | | *Prepared: 10/14/2024 17:25* | | | *Analyzed: 10/15/2024 11:14* | | | | |
| Mercury | <0.0600 | 0.100 | mg/Kg wet | | | | | | | U | 1 |
| **(B24J0796-BS1), LCS** | | | | *Prepared: 10/14/2024 17:25* | | | *Analyzed: 10/15/2024 11:17* | | | | |
| Mercury | 0.474 | 0.100 | mg/Kg wet | 0.500 | | 95 | 85-115 | | | | 1 |
| **(B24J0796-MRL1), MRL Check** | | | | *Prepared: 10/14/2024 17:25* | | | *Analyzed: 10/15/2024 11:19* | | | | |
| Mercury | 0.0153 | 0.100 | mg/Kg wet | 0.0200 | | 76 | 0-200 | | | J | 1 |
| **(B24J0796-MS1), Matrix Spike** | | **Source: O24J0276-11** | | *Prepared: 10/14/2024 17:25* | | | *Analyzed: 10/15/2024 11:22* | | | | |
| Mercury | 0.227 | 0.0478 | mg/Kg dry | 0.239 | ND | 95 | 75-125 | | | | 1 |
| **(B24J0796-MSD1), Matrix Spike Dup** | | **Source: O24J0276-11** | | *Prepared: 10/14/2024 17:25* | | | *Analyzed: 10/15/2024 11:24* | | | | |
| Mercury | 0.250 | 0.0499 | mg/Kg dry | 0.249 | ND | 100 | 75-125 | 10 | 20 | | 1 |
| **(B24J0796-SRM1), Reference** | | | | *Prepared: 10/14/2024 17:25* | | | *Analyzed: 10/15/2024 11:27* | | | | |
| Mercury | 12.3 | 2.39 | mg/Kg wet | 14.4 | | 86 | 50-150 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Solid

### Wet Chemistry

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0405*** | | | | | | | | | | | |
| **(B24J0405-BLK1), Blank** | | | | *Prepared: 10/08/2024 10:18* | | | *Analyzed: 10/10/2024 00:00* | | | | |
| Total Solids | <0.0500 | 0.100 | % | | | | | | | | 1 |
| **(B24J0405-BS1), LCS** | | | | *Prepared: 10/08/2024 10:18* | | | *Analyzed: 10/10/2024 00:00* | | | | |
| Total Solids | 0.208 | 0.100 | % | 0.202 | | 103 | 85-115 | | | | 1 |
| **(B24J0405-DUP1), Duplicate** | | **Source: O24J0253-02** | | *Prepared: 10/08/2024 10:18* | | | *Analyzed: 10/10/2024 00:00* | | | | |
| Total Solids | 73.5 | 0.100 | % | | 75.4 | | | 3 | 5 | | 1 |
| **(B24J0405-DUP2), Duplicate** | | **Source: O24J0276-01** | | *Prepared: 10/08/2024 10:18* | | | *Analyzed: 10/10/2024 00:00* | | | | |
| Total Solids | 85.1 | 0.100 | % | | 83.5 | | | 2 | 5 | | 1 |
| ***Batch: B24J0422*** | | | | | | | | | | | |
| **(B24J0422-BLK1), Blank** | | | | *Prepared: 10/08/2024 12:13* | | | *Analyzed: 10/09/2024 06:00* | | | | |
| Total Solids | <0.0500 | 0.100 | % | | | | | | | | 1 |
| **(B24J0422-BS1), LCS** | | | | *Prepared: 10/08/2024 12:13* | | | *Analyzed: 10/09/2024 06:00* | | | | |
| Total Solids | 0.200 | 0.100 | % | 0.202 | | 99 | 85-115 | | | | 1 |
| **(B24J0422-DUP1), Duplicate** | | **Source: O24J0276-11** | | *Prepared: 10/08/2024 12:13* | | | *Analyzed: 10/09/2024 06:00* | | | | |
| Total Solids | 88.4 | 0.100 | % | | 87.9 | | | 0.5 | 5 | | 1 |
| **(B24J0422-DUP2), Duplicate** | | **Source: O24J0343-07** | | *Prepared: 10/08/2024 12:13* | | | *Analyzed: 10/09/2024 06:00* | | | | |
| Total Solids | 80.9 | 0.100 | % | | 82.5 | | | 2 | 5 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Volatile Organic Compounds by GC/MS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0265 - SW5030*** | | | | | | | | | | | |
| **(B24J0265-BLK1), Blank** | | | | *Prepared: 10/03/2024 10:34* | | | *Analyzed: 10/03/2024 13:41* | | | | |
| 1,1,1,2-Tetrachloroethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,1,1-Trichloroethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,1,2,2-Tetrachloroethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,1,2-Trichloroethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,1-Dichloroethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,1-Dichloroethene | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,1-Dichloropropene | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,2,3-Trichlorobenzene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| 1,2,3-Trichloropropane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,2,4-Trichlorobenzene | <5.00 | 10.0 | ug/L | | | | | | | U | 1 |
| 1,2,4-Trimethylbenzene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| 1,2-Dibromo-3-chloropropane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,2-Dibromoethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,2-Dichlorobenzene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| 1,2-Dichloroethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,2-Dichloropropane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,3,5-Trimethylbenzene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| 1,3-Dichlorobenzene | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,3-Dichloropropane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 1,4-Dioxane | <6.00 | 12.0 | ug/L | | | | | | | U | 1 |
| 1,4-Dichlorobenzene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| 1-Propanol | <100 | 200 | ug/L | | | | | | | U | 1 |
| 2,2-Dichloropropane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 2-Butanone | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| 2-Chloroethyl vinyl ether | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| 2-Chlorotoluene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| 2-Hexanone | <0.200 | 2.00 | ug/L | | | | | | | U | 1 |
| 4-Chlorotoluene | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 4-Isopropyltoluene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| 4-Methyl-2-pentanone | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Acetone | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| Acetonitrile | <4.00 | 5.00 | ug/L | | | | | | | U | 1 |
| Acrolein | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| Acrylonitrile | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Benzene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| Bromobenzene | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Bromochloromethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Bromodichloromethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Bromoform | <0.400 | 1.00 | ug/L | | | | | | | U | 1 |
| Bromomethane | <5.00 | 10.0 | ug/L | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0265 - SW5030*** *(Continued)*

**(B24J0265-BLK1), Blank** (Continued) *Prepared: 10/03/2024 10:34 Analyzed: 10/03/2024 13:41*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Carbon disulfide | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| Carbon tetrachloride | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Chlorobenzene | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Chloroethane | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Chloroform | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Chloromethane | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| cis-1,2-Dichloroethene | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| cis-1,3-Dichloropropene | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Cyclohexane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Dibromochloromethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Dibromomethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Dichlorodifluoromethane | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Ethylbenzene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| Ethyl ether | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Hexachlorobutadiene | <4.00 | 10.0 | ug/L | | | | | | | U | 1 |
| Isobutanol | <5.00 | 20.0 | ug/L | | | | | | | U | 1 |
| Isopropanol | <5.00 | 10.0 | ug/L | | | | | | | U | 1 |
| Isopropylbenzene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| m,p-Xylene | <5.00 | 10.0 | ug/L | | | | | | | U | 1 |
| Methyl tert-butyl ether | <10.0 | 20.0 | ug/L | | | | | | | U | 1 |
| Methylene chloride | <10.0 | 20.0 | ug/L | | | | | | | U | 1 |
| n-Butylbenzene | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| n-Propylbenzene | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Naphthalene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| o-Xylene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| sec-Butylbenzene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| Styrene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| tert-Butylbenzene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| Tetrachloroethene | <4.00 | 5.00 | ug/L | | | | | | | U | 1 |
| Tetrahydrofuran | <4.00 | 5.00 | ug/L | | | | | | | U | 1 |
| Toluene | <2.00 | 5.00 | ug/L | | | | | | | U | 1 |
| trans-1,2-Dichloroethene | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| trans-1,3-Dichloropropene | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Trichloroethene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| Trichlorofluoromethane | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| Vinyl acetate | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Vinyl chloride | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Xylenes, Total | <5.00 | 10.0 | ug/L | | | | | | | U | 1 |
| 1,2-Dichloroethene, Total | <0.400 | 1.00 | ug/L | | | | | | | U | 1 |
| *Surrogate: Dibromofluoromethane* | *20.6* | | *ug/L* | *20.0* | | *103* | *80-119* | | | | 1 |

## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Volatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0265 - SW5030*** *(Continued)* | | | | | | | | | | | |
| **(B24J0265-BLK1), Blank** (Continued) | | | | *Prepared: 10/03/2024 10:34* | | | *Analyzed: 10/03/2024 13:41* | | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *20.0* | | *ug/L* | *20.0* | | *100* | *81-118* | | | | 1 |
| *Surrogate: Fluorobenzene* | *19.9* | | *ug/L* | *20.0* | | *99* | *80-116* | | | | 1 |
| *Surrogate: Toluene-d8* | *19.7* | | *ug/L* | *20.0* | | *98* | *89-112* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *9.27* | | *ug/L* | *10.0* | | *93* | *85-114* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *20.1* | | *ug/L* | *20.0* | | *100* | *87-138* | | | | 1 |
| **(B24J0265-BS1), LCS** | | | | *Prepared: 10/03/2024 10:34* | | | *Analyzed: 10/03/2024 12:19* | | | | |
| 1,1,1,2-Tetrachloroethane | 16.0 | 0.500 | ug/L | 15.0 | | 107 | 78-124 | | | | 1 |
| 1,1,1-Trichloroethane | 15.2 | 0.500 | ug/L | 15.0 | | 101 | 74-131 | | | | 1 |
| 1,1,2,2-Tetrachloroethane | 14.6 | 0.500 | ug/L | 15.0 | | 97 | 71-121 | | | | 1 |
| 1,1,2-Trichloroethane | 14.3 | 0.500 | ug/L | 15.0 | | 95 | 80-119 | | | | 1 |
| 1,1-Dichloroethane | 15.2 | 0.500 | ug/L | 15.0 | | 102 | 77-125 | | | | 1 |
| 1,1-Dichloroethene | 16.3 | 0.500 | ug/L | 15.0 | | 109 | 71-131 | | | | 1 |
| 1,1-Dichloropropene | 15.6 | 0.500 | ug/L | 15.0 | | 104 | 79-125 | | | | 1 |
| 1,2,3-Trichlorobenzene | 16.8 | 5.00 | ug/L | 15.0 | | 112 | 69-129 | | | | 1 |
| 1,2,3-Trichloropropane | 15.9 | 0.500 | ug/L | 15.0 | | 106 | 73-122 | | | | 1 |
| 1,2,4-Trichlorobenzene | 15.9 | 10.0 | ug/L | 15.0 | | 106 | 69-130 | | | | 1 |
| 1,2,4-Trimethylbenzene | 16.2 | 5.00 | ug/L | 15.0 | | 108 | 76-124 | | | | 1 |
| 1,2-Dibromo-3-chloropropane | 16.9 | 0.500 | ug/L | 15.0 | | 113 | 62-128 | | | | 1 |
| 1,2-Dibromoethane | 15.5 | 0.500 | ug/L | 15.0 | | 103 | 77-121 | | | | 1 |
| 1,2-Dichlorobenzene | 14.8 | 2.00 | ug/L | 15.0 | | 99 | 80-119 | | | | 1 |
| 1,2-Dichloroethane | 15.1 | 0.500 | ug/L | 15.0 | | 101 | 73-128 | | | | 1 |
| 1,2-Dichloropropane | 15.2 | 0.500 | ug/L | 15.0 | | 102 | 78-122 | | | | 1 |
| 1,3,5-Trimethylbenzene | 16.1 | 5.00 | ug/L | 15.0 | | 107 | 75-124 | | | | 1 |
| 1,3-Dichlorobenzene | 14.9 | 0.500 | ug/L | 15.0 | | 100 | 80-119 | | | | 1 |
| 1,3-Dichloropropane | 15.7 | 0.500 | ug/L | 15.0 | | 105 | 80-119 | | | | 1 |
| 1,4-Dioxane | 150 | 12.0 | ug/L | 150 | | 100 | 59-139 | | | | 1 |
| 1,4-Dichlorobenzene | 15.7 | 5.00 | ug/L | 15.0 | | 105 | 79-118 | | | | 1 |
| 1-Propanol | 149 | 200 | ug/L | 150 | | 99 | 70-130 | | | J | 1 |
| 2,2-Dichloropropane | 15.5 | 0.500 | ug/L | 15.0 | | 103 | 60-139 | | | | 1 |
| 2-Butanone | 54.7 | 5.00 | ug/L | 52.5 | | 104 | 56-143 | | | | 1 |
| 2-Chloroethyl vinyl ether | 13.4 | 2.00 | ug/L | 15.0 | | 89 | 51-139 | | | | 1 |
| 2-Chlorotoluene | 15.8 | 2.00 | ug/L | 15.0 | | 105 | 79-122 | | | | 1 |
| 2-Hexanone | 53.4 | 2.00 | ug/L | 52.5 | | 102 | 57-139 | | | | 1 |
| 4-Chlorotoluene | 15.6 | 0.500 | ug/L | 15.0 | | 104 | 78-122 | | | | 1 |
| 4-Isopropyltoluene | 16.4 | 5.00 | ug/L | 15.0 | | 109 | 77-127 | | | | 1 |
| 4-Methyl-2-pentanone | 51.7 | 1.00 | ug/L | 52.5 | | 99 | 67-130 | | | | 1 |
| Acetone | 54.5 | 5.00 | ug/L | 52.5 | | 104 | 39-160 | | | | 1 |
| Acetonitrile | 36.6 | 5.00 | ug/L | 37.5 | | 98 | 50-142 | | | | 1 |
| Acrolein | 32.8 | 5.00 | ug/L | 37.5 | | 87 | 39-155 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0265 - SW5030*** *(Continued)*

**(B24J0265-BS1), LCS** (Continued) *Prepared: 10/03/2024 10:34 Analyzed: 10/03/2024 12:19*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acrylonitrile | 16.0 | 1.00 | ug/L | 15.0 | | 107 | 63-135 | | | | 1 |
| Benzene | 15.3 | 2.00 | ug/L | 15.0 | | 102 | 79-120 | | | | 1 |
| Bromobenzene | 15.5 | 1.00 | ug/L | 15.0 | | 104 | 80-120 | | | | 1 |
| Bromochloromethane | 15.3 | 0.500 | ug/L | 15.0 | | 102 | 78-123 | | | | 1 |
| Bromodichloromethane | 15.1 | 0.500 | ug/L | 15.0 | | 101 | 79-125 | | | | 1 |
| Bromoform | 15.2 | 1.00 | ug/L | 15.0 | | 101 | 66-130 | | | | 1 |
| Bromomethane | 16.0 | 10.0 | ug/L | 15.0 | | 106 | 53-141 | | | | 1 |
| Carbon disulfide | 15.6 | 5.00 | ug/L | 15.0 | | 104 | 64-133 | | | | 1 |
| Carbon tetrachloride | 15.6 | 0.500 | ug/L | 15.0 | | 104 | 72-136 | | | | 1 |
| Chlorobenzene | 15.4 | 0.500 | ug/L | 15.0 | | 103 | 82-118 | | | | 1 |
| Chloroethane | 14.0 | 1.00 | ug/L | 15.0 | | 94 | 60-138 | | | | 1 |
| Chloroform | 15.1 | 1.00 | ug/L | 15.0 | | 101 | 79-124 | | | | 1 |
| Chloromethane | 13.7 | 1.00 | ug/L | 15.0 | | 91 | 50-139 | | | | 1 |
| cis-1,2-Dichloroethene | 15.5 | 0.500 | ug/L | 15.0 | | 103 | 78-123 | | | | 1 |
| cis-1,3-Dichloropropene | 15.0 | 0.500 | ug/L | 15.0 | | 100 | 75-124 | | | | 1 |
| Cyclohexane | 15.4 | 0.500 | ug/L | 15.0 | | 103 | 71-130 | | | | 1 |
| Dibromochloromethane | 15.3 | 0.500 | ug/L | 15.0 | | 102 | 74-126 | | | | 1 |
| Dibromomethane | 15.1 | 0.500 | ug/L | 15.0 | | 100 | 79-123 | | | | 1 |
| Dichlorodifluoromethane | 12.8 | 1.00 | ug/L | 15.0 | | 85 | 32-152 | | | | 1 |
| Ethylbenzene | 16.3 | 5.00 | ug/L | 15.0 | | 108 | 79-121 | | | | 1 |
| Ethyl ether | 15.7 | 0.500 | ug/L | 15.0 | | 105 | 68-129 | | | | 1 |
| Hexachlorobutadiene | 16.0 | 10.0 | ug/L | 15.0 | | 107 | 66-134 | | | | 1 |
| Isobutanol | 134 | 20.0 | ug/L | 150 | | 90 | 63-133 | | | | 1 |
| Isopropanol | 142 | 10.0 | ug/L | 150 | | 95 | 56-142 | | | | 1 |
| Isopropylbenzene | 16.1 | 5.00 | ug/L | 15.0 | | 107 | 72-131 | | | | 1 |
| m,p-Xylene | 33.3 | 10.0 | ug/L | 30.0 | | 111 | 80-121 | | | | 1 |
| Methyl tert-butyl ether | 15.4 | 20.0 | ug/L | 15.0 | | 103 | 71-124 | | | J | 1 |
| Methylene chloride | 14.8 | 20.0 | ug/L | 15.0 | | 99 | 74-124 | | | J | 1 |
| n-Butylbenzene | 16.0 | 1.00 | ug/L | 15.0 | | 107 | 75-128 | | | | 1 |
| n-Propylbenzene | 16.0 | 0.500 | ug/L | 15.0 | | 107 | 76-126 | | | | 1 |
| Naphthalene | 16.5 | 5.00 | ug/L | 15.0 | | 110 | 61-128 | | | | 1 |
| o-Xylene | 16.0 | 2.00 | ug/L | 15.0 | | 106 | 78-122 | | | | 1 |
| sec-Butylbenzene | 16.5 | 5.00 | ug/L | 15.0 | | 110 | 77-126 | | | | 1 |
| Styrene | 16.0 | 5.00 | ug/L | 15.0 | | 107 | 78-123 | | | | 1 |
| tert-Butylbenzene | 16.5 | 5.00 | ug/L | 15.0 | | 110 | 78-124 | | | | 1 |
| Tetrachloroethene | 15.7 | 5.00 | ug/L | 15.0 | | 104 | 74-129 | | | | 1 |
| Tetrahydrofuran | 15.1 | 5.00 | ug/L | 15.0 | | 100 | 57-133 | | | | 1 |
| Toluene | 15.5 | 5.00 | ug/L | 15.0 | | 104 | 80-121 | | | | 1 |
| trans-1,2-Dichloroethene | 15.0 | 0.500 | ug/L | 15.0 | | 100 | 75-124 | | | | 1 |
| trans-1,3-Dichloropropene | 15.2 | 0.500 | ug/L | 15.0 | | 101 | 73-127 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Volatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0265 - SW5030*** *(Continued)* | | | | | | | | | | | |
| **(B24J0265-BS1), LCS** (Continued) | | | | *Prepared: 10/03/2024 10:34* | | | *Analyzed: 10/03/2024 12:19* | | | | |
| Trichloroethene | 15.2 | 2.00 | ug/L | 15.0 | | 101 | 79-123 | | | | 1 |
| Trichlorofluoromethane | 14.1 | 0.500 | ug/L | 15.0 | | 94 | 65-141 | | | | 1 |
| Vinyl acetate | 14.8 | 1.00 | ug/L | 15.0 | | 98 | 54-146 | | | | 1 |
| Vinyl chloride | 13.2 | 1.00 | ug/L | 15.0 | | 88 | 58-137 | | | | 1 |
| Xylenes, Total | 49.2 | 10.0 | ug/L | 45.0 | | 109 | 79-121 | | | | 1 |
| 1,2-Dichloroethene, Total | 30.5 | 1.00 | ug/L | 30.0 | | 102 | 79-121 | | | | 1 |
| *Surrogate: Dibromofluoromethane* | *19.6* | | *ug/L* | *20.0* | | *98* | *80-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *19.6* | | *ug/L* | *20.0* | | *98* | *81-118* | | | | 1 |
| *Surrogate: Fluorobenzene* | *19.6* | | *ug/L* | *20.0* | | *98* | *80-116* | | | | 1 |
| *Surrogate: Toluene-d8* | *20.1* | | *ug/L* | *20.0* | | *100* | *89-112* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *10.2* | | *ug/L* | *10.0* | | *102* | *85-114* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *19.1* | | *ug/L* | *20.0* | | *95* | *87-138* | | | | 1 |
| **(B24J0265-MS1), Matrix Spike** | | | | **Source: O24J0232-03** | *Prepared: 10/03/2024 10:34* | | *Analyzed: 10/03/2024 15:04* | | | | |
| 1,1,1,2-Tetrachloroethane | 14.8 | 0.500 | ug/L | 15.0 | ND | 99 | 78-124 | | | | 1 |
| 1,1,1-Trichloroethane | 14.6 | 0.500 | ug/L | 15.0 | ND | 97 | 74-131 | | | | 1 |
| 1,1,2,2-Tetrachloroethane | 13.7 | 0.500 | ug/L | 15.0 | ND | 92 | 71-121 | | | | 1 |
| 1,1,2-Trichloroethane | 14.4 | 0.500 | ug/L | 15.0 | ND | 96 | 80-119 | | | | 1 |
| 1,1-Dichloroethane | 14.7 | 0.500 | ug/L | 15.0 | ND | 98 | 77-125 | | | | 1 |
| 1,1-Dichloroethene | 15.4 | 0.500 | ug/L | 15.0 | ND | 103 | 71-131 | | | | 1 |
| 1,1-Dichloropropene | 15.1 | 0.500 | ug/L | 15.0 | ND | 101 | 79-125 | | | | 1 |
| 1,2,3-Trichlorobenzene | 15.9 | 5.00 | ug/L | 15.0 | ND | 106 | 69-129 | | | | 1 |
| 1,2,3-Trichloropropane | 15.4 | 0.500 | ug/L | 15.0 | ND | 103 | 73-122 | | | | 1 |
| 1,2,4-Trichlorobenzene | 15.3 | 10.0 | ug/L | 15.0 | ND | 102 | 69-130 | | | | 1 |
| 1,2,4-Trimethylbenzene | 15.0 | 5.00 | ug/L | 15.0 | ND | 100 | 76-124 | | | | 1 |
| 1,2-Dibromo-3-chloropropane | 16.4 | 0.500 | ug/L | 15.0 | ND | 109 | 62-128 | | | | 1 |
| 1,2-Dibromoethane | 14.7 | 0.500 | ug/L | 15.0 | ND | 98 | 77-121 | | | | 1 |
| 1,2-Dichlorobenzene | 14.6 | 2.00 | ug/L | 15.0 | ND | 97 | 80-119 | | | | 1 |
| 1,2-Dichloroethane | 14.2 | 0.500 | ug/L | 15.0 | ND | 95 | 73-128 | | | | 1 |
| 1,2-Dichloropropane | 15.1 | 0.500 | ug/L | 15.0 | ND | 101 | 78-122 | | | | 1 |
| 1,3,5-Trimethylbenzene | 14.9 | 5.00 | ug/L | 15.0 | ND | 99 | 75-124 | | | | 1 |
| 1,3-Dichlorobenzene | 14.8 | 0.500 | ug/L | 15.0 | ND | 99 | 80-119 | | | | 1 |
| 1,3-Dichloropropane | 15.0 | 0.500 | ug/L | 15.0 | ND | 100 | 80-119 | | | | 1 |
| 1,4-Dioxane | 156 | 12.0 | ug/L | 150 | ND | 104 | 59-139 | | | | 1 |
| 1,4-Dichlorobenzene | 14.4 | 5.00 | ug/L | 15.0 | ND | 96 | 79-118 | | | | 1 |
| 1-Propanol | 103 | 200 | ug/L | 150 | ND | 69 | 70-130 | | | S, J | 1 |
| 2,2-Dichloropropane | 14.9 | 0.500 | ug/L | 15.0 | ND | 100 | 60-139 | | | | 1 |
| 2-Butanone | 50.9 | 5.00 | ug/L | 52.5 | ND | 97 | 56-143 | | | | 1 |
| 2-Chloroethyl vinyl ether | <1.00 | 2.00 | ug/L | 15.0 | ND | 0 | 51-139 | | | 2-CVE, S, U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0265 - SW5030*** *(Continued)*

**(B24J0265-MS1), Matrix Spike** (Continued) **Source: O24J0232-03** *Prepared: 10/03/2024 10:34 Analyzed: 10/03/2024 15:04*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Chlorotoluene | 14.4 | 2.00 | ug/L | 15.0 | ND | 96 | 79-122 | | | | 1 |
| 2-Hexanone | 50.9 | 2.00 | ug/L | 52.5 | ND | 97 | 57-139 | | | | 1 |
| 4-Chlorotoluene | 14.3 | 0.500 | ug/L | 15.0 | ND | 96 | 78-122 | | | | 1 |
| 4-Isopropyltoluene | 15.4 | 5.00 | ug/L | 15.0 | ND | 103 | 77-127 | | | | 1 |
| 4-Methyl-2-pentanone | 49.9 | 1.00 | ug/L | 52.5 | ND | 95 | 67-130 | | | | 1 |
| Acetone | 52.1 | 5.00 | ug/L | 52.5 | ND | 99 | 39-160 | | | | 1 |
| Acetonitrile | 35.2 | 5.00 | ug/L | 37.5 | ND | 94 | 50-142 | | | | 1 |
| Acrolein | 31.6 | 5.00 | ug/L | 37.5 | ND | 84 | 39-155 | | | | 1 |
| Acrylonitrile | 14.5 | 1.00 | ug/L | 15.0 | ND | 97 | 63-135 | | | | 1 |
| Benzene | 14.8 | 2.00 | ug/L | 15.0 | ND | 99 | 79-120 | | | | 1 |
| Bromobenzene | 14.1 | 1.00 | ug/L | 15.0 | ND | 94 | 80-120 | | | | 1 |
| Bromochloromethane | 14.6 | 0.500 | ug/L | 15.0 | ND | 97 | 78-123 | | | | 1 |
| Bromodichloromethane | 14.7 | 0.500 | ug/L | 15.0 | ND | 98 | 79-125 | | | | 1 |
| Bromoform | 12.9 | 1.00 | ug/L | 15.0 | ND | 86 | 66-130 | | | | 1 |
| Bromomethane | 14.5 | 10.0 | ug/L | 15.0 | ND | 97 | 53-141 | | | | 1 |
| Carbon disulfide | 14.4 | 5.00 | ug/L | 15.0 | ND | 96 | 64-133 | | | | 1 |
| Carbon tetrachloride | 15.0 | 0.500 | ug/L | 15.0 | ND | 100 | 72-136 | | | | 1 |
| Chlorobenzene | 14.5 | 0.500 | ug/L | 15.0 | ND | 97 | 82-118 | | | | 1 |
| Chloroethane | 13.0 | 1.00 | ug/L | 15.0 | ND | 87 | 60-138 | | | | 1 |
| Chloroform | 14.2 | 1.00 | ug/L | 15.0 | ND | 94 | 79-124 | | | | 1 |
| Chloromethane | 13.1 | 1.00 | ug/L | 15.0 | ND | 87 | 50-139 | | | | 1 |
| cis-1,2-Dichloroethene | 25.4 | 0.500 | ug/L | 15.0 | 13.2 | 81 | 78-123 | | | | 1 |
| cis-1,3-Dichloropropene | 14.6 | 0.500 | ug/L | 15.0 | ND | 97 | 75-124 | | | | 1 |
| Cyclohexane | 14.9 | 0.500 | ug/L | 15.0 | ND | 99 | 71-130 | | | | 1 |
| Dibromochloromethane | 14.0 | 0.500 | ug/L | 15.0 | ND | 93 | 74-126 | | | | 1 |
| Dibromomethane | 14.8 | 0.500 | ug/L | 15.0 | ND | 99 | 79-123 | | | | 1 |
| Dichlorodifluoromethane | 11.5 | 1.00 | ug/L | 15.0 | ND | 76 | 32-152 | | | | 1 |
| Ethylbenzene | 14.9 | 5.00 | ug/L | 15.0 | ND | 99 | 79-121 | | | | 1 |
| Ethyl ether | 14.9 | 0.500 | ug/L | 15.0 | ND | 100 | 68-129 | | | | 1 |
| Hexachlorobutadiene | 16.0 | 10.0 | ug/L | 15.0 | ND | 107 | 66-134 | | | | 1 |
| Isobutanol | 136 | 20.0 | ug/L | 150 | ND | 90 | 63-133 | | | | 1 |
| Isopropanol | 140 | 10.0 | ug/L | 150 | ND | 93 | 56-142 | | | | 1 |
| Isopropylbenzene | 14.6 | 5.00 | ug/L | 15.0 | ND | 97 | 72-131 | | | | 1 |
| m,p-Xylene | 29.7 | 10.0 | ug/L | 30.0 | ND | 99 | 80-121 | | | | 1 |
| Methyl tert-butyl ether | 14.7 | 20.0 | ug/L | 15.0 | ND | 98 | 71-124 | | | J | 1 |
| Methylene chloride | 15.4 | 20.0 | ug/L | 15.0 | ND | 103 | 74-124 | | | J | 1 |
| n-Butylbenzene | 15.3 | 1.00 | ug/L | 15.0 | ND | 102 | 75-128 | | | | 1 |
| n-Propylbenzene | 14.5 | 0.500 | ug/L | 15.0 | ND | 97 | 76-126 | | | | 1 |
| Naphthalene | 15.8 | 5.00 | ug/L | 15.0 | ND | 105 | 61-128 | | | | 1 |
| o-Xylene | 14.1 | 2.00 | ug/L | 15.0 | ND | 94 | 78-122 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Volatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0265 - SW5030*** *(Continued)* | | | | | | | | | | | |
| **(B24J0265-MS1), Matrix Spike** (Continued) | | | **Source: O24J0232-03** | *Prepared: 10/03/2024 10:34* | | | *Analyzed: 10/03/2024 15:04* | | | | |
| sec-Butylbenzene | 15.2 | 5.00 | ug/L | 15.0 | ND | 101 | 77-126 | | | | 1 |
| Styrene | 13.3 | 5.00 | ug/L | 15.0 | ND | 89 | 78-123 | | | | 1 |
| tert-Butylbenzene | 14.8 | 5.00 | ug/L | 15.0 | ND | 99 | 78-124 | | | | 1 |
| Tetrachloroethene | 14.6 | 5.00 | ug/L | 15.0 | ND | 97 | 74-129 | | | | 1 |
| Tetrahydrofuran | 15.3 | 5.00 | ug/L | 15.0 | ND | 102 | 57-133 | | | | 1 |
| Toluene | 14.4 | 5.00 | ug/L | 15.0 | ND | 96 | 80-121 | | | | 1 |
| trans-1,2-Dichloroethene | 14.6 | 0.500 | ug/L | 15.0 | ND | 97 | 75-124 | | | | 1 |
| trans-1,3-Dichloropropene | 14.5 | 0.500 | ug/L | 15.0 | ND | 97 | 73-127 | | | | 1 |
| Trichloroethene | 404 | 2.00 | ug/L | 15.0 | 474 | NR | 79-123 | | | S | 1 |
| Trichlorofluoromethane | 13.7 | 0.500 | ug/L | 15.0 | ND | 91 | 65-141 | | | | 1 |
| Vinyl acetate | 12.7 | 1.00 | ug/L | 15.0 | ND | 84 | 54-146 | | | | 1 |
| Vinyl chloride | 12.9 | 1.00 | ug/L | 15.0 | ND | 86 | 58-137 | | | | 1 |
| Xylenes, Total | 43.8 | 10.0 | ug/L | 45.0 | ND | 97 | 79-121 | | | | 1 |
| 1,2-Dichloroethene, Total | 40.0 | 1.00 | ug/L | 30.0 | 13.2 | 89 | 79-121 | | | | 1 |
| *Surrogate: Dibromofluoromethane* | *19.9* | | *ug/L* | *20.0* | | *99* | *80-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *19.6* | | *ug/L* | *20.0* | | *98* | *81-118* | | | | 1 |
| *Surrogate: Fluorobenzene* | *20.3* | | *ug/L* | *20.0* | | *101* | *80-116* | | | | 1 |
| *Surrogate: Toluene-d8* | *19.7* | | *ug/L* | *20.0* | | *99* | *89-112* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *10.1* | | *ug/L* | *10.0* | | *101* | *85-114* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *20.0* | | *ug/L* | *20.0* | | *100* | *87-138* | | | | 1 |
| **(B24J0265-MSD1), Matrix Spike Dup** | | | **Source: O24J0232-03** | *Prepared: 10/03/2024 10:34* | | | *Analyzed: 10/03/2024 15:31* | | | | |
| 1,1,1,2-Tetrachloroethane | 15.6 | 0.500 | ug/L | 15.0 | ND | 104 | 78-124 | 6 | 20 | | 1 |
| 1,1,1-Trichloroethane | 15.2 | 0.500 | ug/L | 15.0 | ND | 102 | 74-131 | 4 | 20 | | 1 |
| 1,1,2,2-Tetrachloroethane | 13.4 | 0.500 | ug/L | 15.0 | ND | 90 | 71-121 | 2 | 20 | | 1 |
| 1,1,2-Trichloroethane | 14.5 | 0.500 | ug/L | 15.0 | ND | 97 | 80-119 | 0.3 | 20 | | 1 |
| 1,1-Dichloroethane | 15.6 | 0.500 | ug/L | 15.0 | ND | 104 | 77-125 | 6 | 20 | | 1 |
| 1,1-Dichloroethene | 16.5 | 0.500 | ug/L | 15.0 | ND | 110 | 71-131 | 7 | 20 | | 1 |
| 1,1-Dichloropropene | 15.5 | 0.500 | ug/L | 15.0 | ND | 104 | 79-125 | 3 | 20 | | 1 |
| 1,2,3-Trichlorobenzene | 17.0 | 5.00 | ug/L | 15.0 | ND | 113 | 69-129 | 7 | 20 | | 1 |
| 1,2,3-Trichloropropane | 15.9 | 0.500 | ug/L | 15.0 | ND | 106 | 73-122 | 3 | 20 | | 1 |
| 1,2,4-Trichlorobenzene | 15.9 | 10.0 | ug/L | 15.0 | ND | 106 | 69-130 | 4 | 20 | | 1 |
| 1,2,4-Trimethylbenzene | 16.0 | 5.00 | ug/L | 15.0 | ND | 107 | 76-124 | 6 | 20 | | 1 |
| 1,2-Dibromo-3-chloropropane | 16.2 | 0.500 | ug/L | 15.0 | ND | 108 | 62-128 | 1 | 20 | | 1 |
| 1,2-Dibromoethane | 14.9 | 0.500 | ug/L | 15.0 | ND | 99 | 77-121 | 1 | 20 | | 1 |
| 1,2-Dichlorobenzene | 15.0 | 2.00 | ug/L | 15.0 | ND | 100 | 80-119 | 2 | 20 | | 1 |
| 1,2-Dichloroethane | 14.9 | 0.500 | ug/L | 15.0 | ND | 99 | 73-128 | 5 | 20 | | 1 |
| 1,2-Dichloropropane | 14.9 | 0.500 | ug/L | 15.0 | ND | 99 | 78-122 | 1 | 20 | | 1 |
| 1,3,5-Trimethylbenzene | 15.9 | 5.00 | ug/L | 15.0 | ND | 106 | 75-124 | 6 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Volatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0265 - SW5030*** *(Continued)*

**(B24J0265-MSD1), Matrix Spike Dup** (Continue **Source: O24J0232-03** *Prepared: 10/03/2024 10:34 Analyzed: 10/03/2024 15:31*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 14.9 | 0.500 | ug/L | 15.0 | ND | 100 | 80-119 | 1 | 20 | | 1 |
| 1,3-Dichloropropane | 15.2 | 0.500 | ug/L | 15.0 | ND | 101 | 80-119 | 1 | 20 | | 1 |
| 1,4-Dioxane | 155 | 12.0 | ug/L | 150 | ND | 103 | 59-139 | 0.7 | 20 | | 1 |
| 1,4-Dichlorobenzene | 15.2 | 5.00 | ug/L | 15.0 | ND | 101 | 79-118 | 6 | 20 | | 1 |
| 1-Propanol | 152 | 200 | ug/L | 150 | ND | 101 | 70-130 | 38 | 20 | P, J | 1 |
| 2,2-Dichloropropane | 15.7 | 0.500 | ug/L | 15.0 | ND | 105 | 60-139 | 5 | 20 | | 1 |
| 2-Butanone | 52.3 | 5.00 | ug/L | 52.5 | ND | 100 | 56-143 | 3 | 20 | | 1 |
| 2-Chloroethyl vinyl ether | <1.00 | 2.00 | ug/L | 15.0 | ND | 0 | 51-139 | | 20 | 2-CVE, S, U | 1 |
| 2-Chlorotoluene | 15.5 | 2.00 | ug/L | 15.0 | ND | 104 | 79-122 | 8 | 20 | | 1 |
| 2-Hexanone | 50.2 | 2.00 | ug/L | 52.5 | ND | 96 | 57-139 | 1 | 20 | | 1 |
| 4-Chlorotoluene | 15.3 | 0.500 | ug/L | 15.0 | ND | 102 | 78-122 | 7 | 20 | | 1 |
| 4-Isopropyltoluene | 16.2 | 5.00 | ug/L | 15.0 | ND | 108 | 77-127 | 5 | 20 | | 1 |
| 4-Methyl-2-pentanone | 51.4 | 1.00 | ug/L | 52.5 | ND | 98 | 67-130 | 3 | 20 | | 1 |
| Acetone | 53.2 | 5.00 | ug/L | 52.5 | ND | 101 | 39-160 | 2 | 20 | | 1 |
| Acetonitrile | 36.8 | 5.00 | ug/L | 37.5 | ND | 98 | 50-142 | 4 | 20 | | 1 |
| Acrolein | 31.2 | 5.00 | ug/L | 37.5 | ND | 83 | 39-155 | 1 | 20 | | 1 |
| Acrylonitrile | 14.4 | 1.00 | ug/L | 15.0 | ND | 96 | 63-135 | 0.8 | 20 | | 1 |
| Benzene | 15.5 | 2.00 | ug/L | 15.0 | ND | 103 | 79-120 | 4 | 20 | | 1 |
| Bromobenzene | 15.6 | 1.00 | ug/L | 15.0 | ND | 104 | 80-120 | 10 | 20 | | 1 |
| Bromochloromethane | 15.3 | 0.500 | ug/L | 15.0 | ND | 102 | 78-123 | 5 | 20 | | 1 |
| Bromodichloromethane | 14.5 | 0.500 | ug/L | 15.0 | ND | 97 | 79-125 | 1 | 20 | | 1 |
| Bromoform | 13.6 | 1.00 | ug/L | 15.0 | ND | 91 | 66-130 | 6 | 20 | | 1 |
| Bromomethane | 16.4 | 10.0 | ug/L | 15.0 | ND | 110 | 53-141 | 12 | 20 | | 1 |
| Carbon disulfide | 15.7 | 5.00 | ug/L | 15.0 | ND | 105 | 64-133 | 8 | 20 | | 1 |
| Carbon tetrachloride | 15.7 | 0.500 | ug/L | 15.0 | ND | 105 | 72-136 | 5 | 20 | | 1 |
| Chlorobenzene | 14.9 | 0.500 | ug/L | 15.0 | ND | 99 | 82-118 | 3 | 20 | | 1 |
| Chloroethane | 13.9 | 1.00 | ug/L | 15.0 | ND | 93 | 60-138 | 6 | 20 | | 1 |
| Chloroform | 15.4 | 1.00 | ug/L | 15.0 | ND | 102 | 79-124 | 8 | 20 | | 1 |
| Chloromethane | 13.8 | 1.00 | ug/L | 15.0 | ND | 92 | 50-139 | 5 | 20 | | 1 |
| cis-1,2-Dichloroethene | 27.7 | 0.500 | ug/L | 15.0 | 13.2 | 97 | 78-123 | 9 | 20 | | 1 |
| cis-1,3-Dichloropropene | 14.7 | 0.500 | ug/L | 15.0 | ND | 98 | 75-124 | 0.9 | 20 | | 1 |
| Cyclohexane | 15.4 | 0.500 | ug/L | 15.0 | ND | 103 | 71-130 | 3 | 20 | | 1 |
| Dibromochloromethane | 14.4 | 0.500 | ug/L | 15.0 | ND | 96 | 74-126 | 3 | 20 | | 1 |
| Dibromomethane | 15.5 | 0.500 | ug/L | 15.0 | ND | 104 | 79-123 | 5 | 20 | | 1 |
| Dichlorodifluoromethane | 12.2 | 1.00 | ug/L | 15.0 | ND | 82 | 32-152 | 7 | 20 | | 1 |
| Ethylbenzene | 15.7 | 5.00 | ug/L | 15.0 | ND | 105 | 79-121 | 5 | 20 | | 1 |
| Ethyl ether | 15.6 | 0.500 | ug/L | 15.0 | ND | 104 | 68-129 | 5 | 20 | | 1 |
| Hexachlorobutadiene | 17.1 | 10.0 | ug/L | 15.0 | ND | 114 | 66-134 | 7 | 20 | | 1 |
| Isobutanol | 147 | 20.0 | ug/L | 150 | ND | 98 | 63-133 | 8 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Volatile Organic Compounds by GC/MS

(Continued)

**Batch: B24J0265 - SW5030** *(Continued)*

**(B24J0265-MSD1), Matrix Spike Dup** (Continue — **Source: O24J0232-03** — *Prepared: 10/03/2024 10:34 Analyzed: 10/03/2024 15:31*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Isopropanol | 144 | 10.0 | ug/L | 150 | ND | 96 | 56-142 | 3 | 20 | | 1 |
| Isopropylbenzene | 15.9 | 5.00 | ug/L | 15.0 | ND | 106 | 72-131 | 8 | 20 | | 1 |
| m,p-Xylene | 30.3 | 10.0 | ug/L | 30.0 | ND | 101 | 80-121 | 2 | 20 | | 1 |
| Methyl tert-butyl ether | 15.3 | 20.0 | ug/L | 15.0 | ND | 102 | 71-124 | 4 | 20 | J | 1 |
| Methylene chloride | 15.6 | 20.0 | ug/L | 15.0 | ND | 104 | 74-124 | 0.8 | 20 | J | 1 |
| n-Butylbenzene | 15.5 | 1.00 | ug/L | 15.0 | ND | 103 | 75-128 | 1 | 20 | | 1 |
| n-Propylbenzene | 15.8 | 0.500 | ug/L | 15.0 | ND | 106 | 76-126 | 9 | 20 | | 1 |
| Naphthalene | 16.7 | 5.00 | ug/L | 15.0 | ND | 112 | 61-128 | 6 | 20 | | 1 |
| o-Xylene | 15.4 | 2.00 | ug/L | 15.0 | ND | 103 | 78-122 | 9 | 20 | | 1 |
| sec-Butylbenzene | 16.4 | 5.00 | ug/L | 15.0 | ND | 109 | 77-126 | 8 | 20 | | 1 |
| Styrene | 13.5 | 5.00 | ug/L | 15.0 | ND | 90 | 78-123 | 2 | 20 | | 1 |
| tert-Butylbenzene | 16.2 | 5.00 | ug/L | 15.0 | ND | 108 | 78-124 | 9 | 20 | | 1 |
| Tetrachloroethene | 15.1 | 5.00 | ug/L | 15.0 | ND | 101 | 74-129 | 4 | 20 | | 1 |
| Tetrahydrofuran | 15.4 | 5.00 | ug/L | 15.0 | ND | 103 | 57-133 | 0.7 | 20 | | 1 |
| Toluene | 15.4 | 5.00 | ug/L | 15.0 | ND | 102 | 80-121 | 7 | 20 | | 1 |
| trans-1,2-Dichloroethene | 15.6 | 0.500 | ug/L | 15.0 | ND | 104 | 75-124 | 6 | 20 | | 1 |
| trans-1,3-Dichloropropene | 14.7 | 0.500 | ug/L | 15.0 | ND | 98 | 73-127 | 1 | 20 | | 1 |
| Trichloroethene | 420 | 2.00 | ug/L | 15.0 | 474 | NR | 79-123 | 4 | 20 | S | 1 |
| Trichlorofluoromethane | 14.0 | 0.500 | ug/L | 15.0 | ND | 94 | 65-141 | 3 | 20 | | 1 |
| Vinyl acetate | 12.9 | 1.00 | ug/L | 15.0 | ND | 86 | 54-146 | 2 | 20 | | 1 |
| Vinyl chloride | 13.4 | 1.00 | ug/L | 15.0 | ND | 89 | 58-137 | 4 | 20 | | 1 |
| Xylenes, Total | 45.6 | 10.0 | ug/L | 45.0 | ND | 101 | 79-121 | 4 | 20 | | 1 |
| 1,2-Dichloroethene, Total | 43.3 | 1.00 | ug/L | 30.0 | 13.2 | 100 | 79-121 | 8 | 20 | | 1 |
| *Surrogate: Dibromofluoromethane* | *20.1* | | *ug/L* | *20.0* | | *100* | *80-119* | | | | 1 |
| *Surrogate: 1,2-Dichloroethane-d4* | *19.7* | | *ug/L* | *20.0* | | *99* | *81-118* | | | | 1 |
| *Surrogate: Fluorobenzene* | *19.9* | | *ug/L* | *20.0* | | *99* | *80-116* | | | | 1 |
| *Surrogate: Toluene-d8* | *20.0* | | *ug/L* | *20.0* | | *100* | *89-112* | | | | 1 |
| *Surrogate: 4-Bromofluorobenzene* | *10.5* | | *ug/L* | *10.0* | | *105* | *85-114* | | | | 1 |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *19.3* | | *ug/L* | *20.0* | | *97* | *87-138* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Volatile Organic Compounds by GC/MS, Tentatively Identified Compounds

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0265 - SW5030*** | | | | | | | | | | | |
| **(B24J0265-BLK1), Blank** | | | | *Prepared: 10/03/2024 10:34* | | | *Analyzed: 10/03/2024 13:41* | | | | |
| No TICs found | | | ug/L | | | | | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Semivolatile Organic Compounds by GC/MS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0295 - SW3510*** | | | | | | | | | | | |
| **(B24J0295-BLK1), Blank** | | | | *Prepared: 10/07/2024 08:45 Analyzed: 10/19/2024 13:17* | | | | | | | |
| 1,2,4-Trichlorobenzene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| 1,2-Dichlorobenzene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| 1,2-Dinitrobenzene | <10.0 | 30.0 | ug/L | | | | | | | U | 1 |
| 1,3-Dichlorobenzene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| 1,4-Dichlorobenzene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| 1,4-Dinitrobenzene | <10.0 | 30.0 | ug/L | | | | | | | U | 1 |
| 1-Methylnaphthalene | <2.00 | 4.00 | ug/L | | | | | | | U | 1 |
| 2,3,4,6-Tetrachlorophenol | <5.00 | 15.0 | ug/L | | | | | | | U | 1 |
| 2,4,5-Trichlorophenol | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| 2,4,6-Trichlorophenol | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| 2,4-Dichlorophenol | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| 2,4-Dimethylphenol | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| 2,4-Dinitrophenol | <10.0 | 30.0 | ug/L | | | | | | | U | 1 |
| 2,4-Dinitrotoluene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| 2,6-Dichlorophenol | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| 2,6-Dinitrotoluene | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| 2-Chloronaphthalene | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| 2-Chlorophenol | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| 2-Methylnaphthalene | <2.00 | 4.00 | ug/L | | | | | | | U | 1 |
| 2-Methylphenol | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| 2-Nitroaniline | <10.0 | 30.0 | ug/L | | | | | | | U | 1 |
| 2-Nitrophenol | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| 3,3´-Dichlorobenzidine | <10.0 | 20.0 | ug/L | | | | | | | U | 1 |
| 3 & 4-Methylphenol | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| 3-Nitroaniline | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| 4,6-Dinitro-2-methylphenol | <5.00 | 15.0 | ug/L | | | | | | | U | 1 |
| 4-Bromophenyl-phenylether | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| 4-Chloro-3-methylphenol | <0.200 | 0.500 | ug/L | | | | | | | U | 1 |
| 4-Chloroaniline | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| 4-Chlorophenyl-phenylether | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| 4-Nitroaniline | <10.0 | 30.0 | ug/L | | | | | | | U | 1 |
| 4-Nitrophenol | <5.00 | 15.0 | ug/L | | | | | | | U | 1 |
| Acenaphthene | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| Acenaphthylene | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| Aniline | <0.300 | 1.00 | ug/L | | | | | | | U | 1 |
| Anthracene | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | <0.300 | 1.00 | ug/L | | | | | | | U | 1 |
| Benzidine | <40.0 | 80.0 | ug/L | | | | | | | U | 1 |
| Benzo(a)anthracene | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| Benzo(a)pyrene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0295 - SW3510*** *(Continued)*

**(B24J0295-BLK1), Blank** (Continued) *Prepared: 10/07/2024 08:45 Analyzed: 10/19/2024 13:17*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzo(b)fluoranthene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| Benzo(g,h,i)perylene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| Benzo(k)fluoranthene | <0.500 | 2.00 | ug/L | | | | | | | U | 1 |
| Benzoic acid | <24.0 | 40.0 | ug/L | | | | | | | U | 1 |
| Benzyl alcohol | <2.00 | 4.00 | ug/L | | | | | | | U | 1 |
| Bis(2-chloroethoxy)methane | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Bis(2-chloroethyl)ether | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Bis(2-ethylhexyl)phthalate | <10.0 | 20.0 | ug/L | | | | | | | U | 1 |
| Butyl benzyl phthalate | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Carbazole | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Chrysene | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| Dibenzo(a,h)anthracene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| Dibenzofuran | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| Diethyl phthalate | <3.00 | 6.00 | ug/L | | | | | | | U | 1 |
| Dimethyl phthalate | 0.240 | 0.600 | ug/L | | | | | | | J | 1 |
| Di-n-butyl phthalate | <6.00 | 10.0 | ug/L | | | | | | | U | 1 |
| Di-n-octyl phthalate | <5.00 | 10.0 | ug/L | | | | | | | U | 1 |
| Fluoranthene | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Fluorene | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| Hexachlorobenzene | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Hexachlorobutadiene | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Hexachlorocyclopentadiene | <5.00 | 15.0 | ug/L | | | | | | | U | 1 |
| Hexachloroethane | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Indeno(1,2,3-cd)pyrene | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| Isophorone | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| Naphthalene | <2.00 | 4.00 | ug/L | | | | | | | U | 1 |
| Nitrobenzene | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| N-Nitrosodimethylamine | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| N-Nitrosodi-n-propylamine | <1.00 | 2.00 | ug/L | | | | | | | U | 1 |
| N-Nitrosodiphenylamine | <0.300 | 0.600 | ug/L | | | | | | | U | 1 |
| N-Nitrosopyrrolidine | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Pentachlorophenol | <10.0 | 30.0 | ug/L | | | | | | | U | 1 |
| Phenanthrene | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Phenol | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Pyrene | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Pyridine | <5.00 | 10.0 | ug/L | | | | | | | U | 1 |
| *Surrogate: 2-Fluorophenol* | *33.1* | | *ug/L* | *66.7* | | *50* | *19-119* | | | | 1 |
| *Surrogate: Phenol-d5* | *24.7* | | *ug/L* | *66.7* | | *37* | *10-65* | | | | 1 |
| *Surrogate: Nitrobenzene-d5* | *51.6* | | *ug/L* | *66.7* | | *77* | *44-120* | | | | 1 |
| *Surrogate: 2-Fluorobiphenyl* | *46.4* | | *ug/L* | *66.7* | | *70* | *44-119* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Semivolatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0295 - SW3510*** *(Continued)* | | | | | | | | | | | |
| **(B24J0295-BLK1), Blank** (Continued) | | | | *Prepared: 10/07/2024 08:45* | | | *Analyzed: 10/19/2024 13:17* | | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *50.2* | | *ug/L* | *66.7* | | *75* | *43-140* | | | | 1 |
| *Surrogate: 4-Terphenyl-d14* | *56.1* | | *ug/L* | *66.7* | | *84* | *50-134* | | | | 1 |
| **(B24J0295-BS1), LCS** | | | | *Prepared: 10/07/2024 08:45* | | | *Analyzed: 10/19/2024 13:38* | | | | |
| 1,2,4-Trichlorobenzene | 41.3 | 2.00 | ug/L | 50.0 | | 83 | 29-116 | | | | 1 |
| 1,2-Dichlorobenzene | 39.1 | 2.00 | ug/L | 50.0 | | 78 | 32-111 | | | | 1 |
| 1,2-Dinitrobenzene | 47.8 | 30.0 | ug/L | 50.0 | | 96 | 59-109 | | | | 1 |
| 1,3-Dichlorobenzene | 38.7 | 2.00 | ug/L | 50.0 | | 77 | 28-110 | | | | 1 |
| 1,4-Dichlorobenzene | 39.4 | 2.00 | ug/L | 50.0 | | 79 | 29-112 | | | | 1 |
| 1,4-Dinitrobenzene | 47.8 | 30.0 | ug/L | 50.0 | | 96 | 50-150 | | | | 1 |
| 1-Methylnaphthalene | 42.9 | 4.00 | ug/L | 50.0 | | 86 | 41-119 | | | | 1 |
| 2,3,4,6-Tetrachlorophenol | 45.1 | 15.0 | ug/L | 50.0 | | 90 | 50-128 | | | | 1 |
| 2,4,5-Trichlorophenol | 45.0 | 1.00 | ug/L | 50.0 | | 90 | 53-123 | | | | 1 |
| 2,4,6-Trichlorophenol | 44.0 | 1.00 | ug/L | 50.0 | | 88 | 50-125 | | | | 1 |
| 2,4-Dichlorophenol | 42.6 | 1.00 | ug/L | 50.0 | | 85 | 47-121 | | | | 1 |
| 2,4-Dimethylphenol | 36.0 | 2.00 | ug/L | 50.0 | | 72 | 31-124 | | | | 1 |
| 2,4-Dinitrophenol | 51.7 | 30.0 | ug/L | 50.0 | | 103 | 23-143 | | | | 1 |
| 2,4-Dinitrotoluene | 48.7 | 2.00 | ug/L | 50.0 | | 97 | 57-128 | | | | 1 |
| 2,6-Dichlorophenol | 42.7 | 1.00 | ug/L | 50.0 | | 85 | 50-118 | | | | 1 |
| 2,6-Dinitrotoluene | 48.2 | 1.00 | ug/L | 50.0 | | 96 | 57-124 | | | | 1 |
| 2-Chloronaphthalene | 45.3 | 0.600 | ug/L | 50.0 | | 91 | 40-116 | | | | 1 |
| 2-Chlorophenol | 41.2 | 1.00 | ug/L | 50.0 | | 82 | 38-117 | | | | 1 |
| 2-Methylnaphthalene | 42.5 | 4.00 | ug/L | 50.0 | | 85 | 40-121 | | | | 1 |
| 2-Methylphenol | 40.1 | 1.00 | ug/L | 50.0 | | 80 | 30-117 | | | | 1 |
| 2-Nitroaniline | 47.2 | 30.0 | ug/L | 50.0 | | 94 | 55-127 | | | | 1 |
| 2-Nitrophenol | 43.7 | 1.00 | ug/L | 50.0 | | 87 | 47-123 | | | | 1 |
| 3,3´-Dichlorobenzidine | 69.4 | 20.0 | ug/L | 80.0 | | 87 | 27-129 | | | | 1 |
| 3 & 4-Methylphenol | 38.3 | 1.00 | ug/L | 50.0 | | 77 | 29-110 | | | | 1 |
| 3-Nitroaniline | 46.2 | 2.00 | ug/L | 50.0 | | 92 | 41-128 | | | | 1 |
| 4,6-Dinitro-2-methylphenol | 53.1 | 15.0 | ug/L | 50.0 | | 106 | 44-137 | | | | 1 |
| 4-Bromophenyl-phenylether | 47.6 | 1.00 | ug/L | 50.0 | | 95 | 55-124 | | | | 1 |
| 4-Chloro-3-methylphenol | 44.0 | 0.500 | ug/L | 50.0 | | 88 | 52-119 | | | | 1 |
| 4-Chloroaniline | 42.0 | 0.600 | ug/L | 50.0 | | 84 | 33-117 | | | | 1 |
| 4-Chlorophenyl-phenylether | 46.4 | 1.00 | ug/L | 50.0 | | 93 | 53-121 | | | | 1 |
| 4-Nitroaniline | 46.0 | 30.0 | ug/L | 50.0 | | 92 | 35-120 | | | | 1 |
| 4-Nitrophenol | 22.5 | 15.0 | ug/L | 50.0 | | 45 | 4-144 | | | | 1 |
| Acenaphthene | 45.8 | 0.600 | ug/L | 50.0 | | 92 | 47-122 | | | | 1 |
| Acenaphthylene | 45.4 | 0.600 | ug/L | 50.0 | | 91 | 41-130 | | | | 1 |
| Aniline | 37.5 | 1.00 | ug/L | 50.0 | | 75 | 24-102 | | | | 1 |
| Anthracene | 47.8 | 0.600 | ug/L | 50.0 | | 96 | 57-123 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0295 - SW3510*** *(Continued)*

**(B24J0295-BS1), LCS** (Continued) *Prepared: 10/07/2024 08:45 Analyzed: 10/19/2024 13:38*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Azobenzene as 1,2-Diphenylhydrazine | 48.5 | 1.00 | ug/L | 50.0 | | 97 | 61-116 | | | | 1 |
| Benzidine | 53.2 | 80.0 | ug/L | 80.0 | | 66 | 17-134 | | | J | 1 |
| Benzo(a)anthracene | 46.4 | 0.600 | ug/L | 50.0 | | 93 | 58-125 | | | | 1 |
| Benzo(a)pyrene | 46.6 | 2.00 | ug/L | 50.0 | | 93 | 54-128 | | | | 1 |
| Benzo(b)fluoranthene | 47.2 | 2.00 | ug/L | 50.0 | | 94 | 53-131 | | | | 1 |
| Benzo(g,h,i)perylene | 46.8 | 2.00 | ug/L | 50.0 | | 94 | 50-134 | | | | 1 |
| Benzo(k)fluoranthene | 47.3 | 2.00 | ug/L | 50.0 | | 95 | 57-129 | | | | 1 |
| Benzoic acid | 27.5 | 40.0 | ug/L | 160 | | 17 | 7-112 | | | J | 1 |
| Benzyl alcohol | 38.5 | 4.00 | ug/L | 50.0 | | 77 | 31-112 | | | | 1 |
| Bis(2-chloroethoxy)methane | 43.7 | 1.00 | ug/L | 50.0 | | 87 | 48-120 | | | | 1 |
| Bis(2-chloroethyl)ether | 43.6 | 1.00 | ug/L | 50.0 | | 87 | 43-118 | | | | 1 |
| Bis(2-ethylhexyl)phthalate | 48.2 | 20.0 | ug/L | 50.0 | | 96 | 55-135 | | | | 1 |
| Butyl benzyl phthalate | 48.1 | 1.00 | ug/L | 50.0 | | 96 | 53-134 | | | | 1 |
| Carbazole | 47.2 | 1.00 | ug/L | 50.0 | | 94 | 60-122 | | | | 1 |
| Chrysene | 45.9 | 0.600 | ug/L | 50.0 | | 92 | 59-123 | | | | 1 |
| Dibenzo(a,h)anthracene | 47.4 | 2.00 | ug/L | 50.0 | | 95 | 51-134 | | | | 1 |
| Dibenzofuran | 45.2 | 0.600 | ug/L | 50.0 | | 90 | 53-118 | | | | 1 |
| Diethyl phthalate | 46.7 | 6.00 | ug/L | 50.0 | | 93 | 56-125 | | | | 1 |
| Dimethyl phthalate | 46.8 | 0.600 | ug/L | 50.0 | | 94 | 45-127 | | | | 1 |
| Di-n-butyl phthalate | 49.0 | 10.0 | ug/L | 50.0 | | 98 | 59-127 | | | | 1 |
| Di-n-octyl phthalate | 48.0 | 10.0 | ug/L | 50.0 | | 96 | 51-140 | | | | 1 |
| Fluoranthene | 46.7 | 1.00 | ug/L | 50.0 | | 93 | 57-128 | | | | 1 |
| Fluorene | 46.4 | 0.600 | ug/L | 50.0 | | 93 | 52-124 | | | | 1 |
| Hexachlorobenzene | 46.5 | 1.00 | ug/L | 50.0 | | 93 | 53-125 | | | | 1 |
| Hexachlorobutadiene | 39.3 | 1.00 | ug/L | 50.0 | | 79 | 22-124 | | | | 1 |
| Hexachlorocyclopentadiene | 34.3 | 15.0 | ug/L | 50.0 | | 69 | 23-119 | | | | 1 |
| Hexachloroethane | 37.8 | 1.00 | ug/L | 50.0 | | 76 | 21-115 | | | | 1 |
| Indeno(1,2,3-cd)pyrene | 47.1 | 2.00 | ug/L | 50.0 | | 94 | 52-134 | | | | 1 |
| Isophorone | 44.4 | 0.600 | ug/L | 50.0 | | 89 | 42-124 | | | | 1 |
| Naphthalene | 42.8 | 4.00 | ug/L | 50.0 | | 86 | 40-121 | | | | 1 |
| Nitrobenzene | 45.2 | 0.600 | ug/L | 50.0 | | 90 | 45-121 | | | | 1 |
| N-Nitrosodimethylamine | 29.4 | 1.00 | ug/L | 50.0 | | 59 | 25-110 | | | | 1 |
| N-Nitrosodi-n-propylamine | 43.7 | 2.00 | ug/L | 50.0 | | 87 | 49-119 | | | | 1 |
| N-Nitrosodiphenylamine | 47.0 | 0.600 | ug/L | 50.0 | | 94 | 51-123 | | | | 1 |
| N-Nitrosopyrrolidine | 40.6 | 1.00 | ug/L | 50.0 | | 81 | 48-113 | | | | 1 |
| Pentachlorophenol | 47.6 | 30.0 | ug/L | 50.0 | | 95 | 35-138 | | | | 1 |
| Phenanthrene | 47.9 | 1.00 | ug/L | 50.0 | | 96 | 59-120 | | | | 1 |
| Phenol | 22.1 | 1.00 | ug/L | 50.0 | | 44 | 13-131 | | | | 1 |
| Pyrene | 47.5 | 1.00 | ug/L | 50.0 | | 95 | 57-126 | | | | 1 |
| Pyridine | 23.1 | 10.0 | ug/L | 50.0 | | 46 | 4-65 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Semivolatile Organic Compounds by GC/MS

(Continued)

### *Batch: B24J0295 - SW3510 (Continued)*

**(B24J0295-BS1), LCS** (Continued) *Prepared: 10/07/2024 08:45 Analyzed: 10/19/2024 13:38*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *Surrogate: 2-Fluorophenol* | *41.6* | | *ug/L* | *66.7* | | *62* | *19-119* | | | | 1 |
| *Surrogate: Phenol-d5* | *28.3* | | *ug/L* | *66.7* | | *42* | *10-65* | | | | 1 |
| *Surrogate: Nitrobenzene-d5* | *60.3* | | *ug/L* | *66.7* | | *90* | *44-120* | | | | 1 |
| *Surrogate: 2-Fluorobiphenyl* | *57.0* | | *ug/L* | *66.7* | | *85* | *44-119* | | | | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | *63.3* | | *ug/L* | *66.7* | | *95* | *43-140* | | | | 1 |
| *Surrogate: 4-Terphenyl-d14* | *63.8* | | *ug/L* | *66.7* | | *96* | *50-134* | | | | 1 |

**(B24J0295-BSD1), LCS Dup** *Prepared: 10/07/2024 08:45 Analyzed: 10/19/2024 13:59*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 38.4 | 2.00 | ug/L | 50.0 | | 77 | 29-116 | 7 | 20 | 1 |
| 1,2-Dichlorobenzene | 37.5 | 2.00 | ug/L | 50.0 | | 75 | 32-111 | 4 | 20 | 1 |
| 1,2-Dinitrobenzene | 44.6 | 30.0 | ug/L | 50.0 | | 89 | 59-109 | 7 | 20 | 1 |
| 1,3-Dichlorobenzene | 36.7 | 2.00 | ug/L | 50.0 | | 73 | 28-110 | 5 | 20 | 1 |
| 1,4-Dichlorobenzene | 37.3 | 2.00 | ug/L | 50.0 | | 75 | 29-112 | 6 | 20 | 1 |
| 1,4-Dinitrobenzene | 46.4 | 30.0 | ug/L | 50.0 | | 93 | 50-150 | 3 | 20 | 1 |
| 1-Methylnaphthalene | 39.9 | 4.00 | ug/L | 50.0 | | 80 | 41-119 | 7 | 20 | 1 |
| 2,3,4,6-Tetrachlorophenol | 43.7 | 15.0 | ug/L | 50.0 | | 87 | 50-128 | 3 | 20 | 1 |
| 2,4,5-Trichlorophenol | 44.1 | 1.00 | ug/L | 50.0 | | 88 | 53-123 | 2 | 20 | 1 |
| 2,4,6-Trichlorophenol | 42.6 | 1.00 | ug/L | 50.0 | | 85 | 50-125 | 3 | 20 | 1 |
| 2,4-Dichlorophenol | 39.3 | 1.00 | ug/L | 50.0 | | 79 | 47-121 | 8 | 20 | 1 |
| 2,4-Dimethylphenol | 34.6 | 2.00 | ug/L | 50.0 | | 69 | 31-124 | 4 | 20 | 1 |
| 2,4-Dinitrophenol | 46.1 | 30.0 | ug/L | 50.0 | | 92 | 23-143 | 11 | 20 | 1 |
| 2,4-Dinitrotoluene | 45.5 | 2.00 | ug/L | 50.0 | | 91 | 57-128 | 7 | 20 | 1 |
| 2,6-Dichlorophenol | 39.5 | 1.00 | ug/L | 50.0 | | 79 | 50-118 | 8 | 20 | 1 |
| 2,6-Dinitrotoluene | 45.7 | 1.00 | ug/L | 50.0 | | 91 | 57-124 | 6 | 20 | 1 |
| 2-Chloronaphthalene | 43.4 | 0.600 | ug/L | 50.0 | | 87 | 40-116 | 4 | 20 | 1 |
| 2-Chlorophenol | 39.7 | 1.00 | ug/L | 50.0 | | 79 | 38-117 | 4 | 20 | 1 |
| 2-Methylnaphthalene | 40.1 | 4.00 | ug/L | 50.0 | | 80 | 40-121 | 6 | 20 | 1 |
| 2-Methylphenol | 37.9 | 1.00 | ug/L | 50.0 | | 76 | 30-117 | 6 | 20 | 1 |
| 2-Nitroaniline | 45.8 | 30.0 | ug/L | 50.0 | | 92 | 55-127 | 3 | 20 | 1 |
| 2-Nitrophenol | 41.6 | 1.00 | ug/L | 50.0 | | 83 | 47-123 | 5 | 20 | 1 |
| 3,3´-Dichlorobenzidine | 66.2 | 20.0 | ug/L | 80.0 | | 83 | 27-129 | 5 | 20 | 1 |
| 3 & 4-Methylphenol | 36.0 | 1.00 | ug/L | 50.0 | | 72 | 29-110 | 6 | 20 | 1 |
| 3-Nitroaniline | 45.6 | 2.00 | ug/L | 50.0 | | 91 | 41-128 | 1 | 20 | 1 |
| 4,6-Dinitro-2-methylphenol | 48.7 | 15.0 | ug/L | 50.0 | | 97 | 44-137 | 9 | 20 | 1 |
| 4-Bromophenyl-phenylether | 44.0 | 1.00 | ug/L | 50.0 | | 88 | 55-124 | 8 | 20 | 1 |
| 4-Chloro-3-methylphenol | 42.1 | 0.500 | ug/L | 50.0 | | 84 | 52-119 | 5 | 20 | 1 |
| 4-Chloroaniline | 40.2 | 0.600 | ug/L | 50.0 | | 80 | 33-117 | 4 | 20 | 1 |
| 4-Chlorophenyl-phenylether | 43.4 | 1.00 | ug/L | 50.0 | | 87 | 53-121 | 7 | 20 | 1 |
| 4-Nitroaniline | 45.3 | 30.0 | ug/L | 50.0 | | 91 | 35-120 | 2 | 20 | 1 |
| 4-Nitrophenol | 21.8 | 15.0 | ug/L | 50.0 | | 44 | 4-144 | 3 | 20 | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0295 - SW3510*** *(Continued)*

**(B24J0295-BSD1), LCS Dup** (Continued) *Prepared: 10/07/2024 08:45 Analyzed: 10/19/2024 13:59*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 43.2 | 0.600 | ug/L | 50.0 | | 86 | 47-122 | 6 | 20 | | 1 |
| Acenaphthylene | 43.6 | 0.600 | ug/L | 50.0 | | 87 | 41-130 | 4 | 20 | | 1 |
| Aniline | 36.8 | 1.00 | ug/L | 50.0 | | 74 | 24-102 | 2 | 20 | | 1 |
| Anthracene | 44.8 | 0.600 | ug/L | 50.0 | | 90 | 57-123 | 7 | 20 | | 1 |
| Azobenzene as 1,2-Diphenylhydrazine | 46.7 | 1.00 | ug/L | 50.0 | | 93 | 61-116 | 4 | 20 | | 1 |
| Benzidine | 54.4 | 80.0 | ug/L | 80.0 | | 68 | 17-134 | 2 | 20 | J | 1 |
| Benzo(a)anthracene | 44.0 | 0.600 | ug/L | 50.0 | | 88 | 58-125 | 5 | 20 | | 1 |
| Benzo(a)pyrene | 44.1 | 2.00 | ug/L | 50.0 | | 88 | 54-128 | 6 | 20 | | 1 |
| Benzo(b)fluoranthene | 43.9 | 2.00 | ug/L | 50.0 | | 88 | 53-131 | 7 | 20 | | 1 |
| Benzo(g,h,i)perylene | 43.5 | 2.00 | ug/L | 50.0 | | 87 | 50-134 | 7 | 20 | | 1 |
| Benzo(k)fluoranthene | 44.1 | 2.00 | ug/L | 50.0 | | 88 | 57-129 | 7 | 20 | | 1 |
| Benzoic acid | 22.3 | 40.0 | ug/L | 160 | | 14 | 7-112 | 21 | 20 | P, J | 1 |
| Benzyl alcohol | 36.4 | 4.00 | ug/L | 50.0 | | 73 | 31-112 | 6 | 20 | | 1 |
| Bis(2-chloroethoxy)methane | 41.9 | 1.00 | ug/L | 50.0 | | 84 | 48-120 | 4 | 20 | | 1 |
| Bis(2-chloroethyl)ether | 41.9 | 1.00 | ug/L | 50.0 | | 84 | 43-118 | 4 | 20 | | 1 |
| Bis(2-ethylhexyl)phthalate | 45.3 | 20.0 | ug/L | 50.0 | | 91 | 55-135 | 6 | 20 | | 1 |
| Butyl benzyl phthalate | 44.9 | 1.00 | ug/L | 50.0 | | 90 | 53-134 | 7 | 20 | | 1 |
| Carbazole | 44.7 | 1.00 | ug/L | 50.0 | | 89 | 60-122 | 5 | 20 | | 1 |
| Chrysene | 44.1 | 0.600 | ug/L | 50.0 | | 88 | 59-123 | 4 | 20 | | 1 |
| Dibenzo(a,h)anthracene | 45.2 | 2.00 | ug/L | 50.0 | | 90 | 51-134 | 5 | 20 | | 1 |
| Dibenzofuran | 43.0 | 0.600 | ug/L | 50.0 | | 86 | 53-118 | 5 | 20 | | 1 |
| Diethyl phthalate | 44.0 | 6.00 | ug/L | 50.0 | | 88 | 56-125 | 6 | 20 | | 1 |
| Dimethyl phthalate | 44.4 | 0.600 | ug/L | 50.0 | | 89 | 45-127 | 5 | 20 | | 1 |
| Di-n-butyl phthalate | 46.0 | 10.0 | ug/L | 50.0 | | 92 | 59-127 | 6 | 20 | | 1 |
| Di-n-octyl phthalate | 44.5 | 10.0 | ug/L | 50.0 | | 89 | 51-140 | 8 | 20 | | 1 |
| Fluoranthene | 44.1 | 1.00 | ug/L | 50.0 | | 88 | 57-128 | 6 | 20 | | 1 |
| Fluorene | 43.2 | 0.600 | ug/L | 50.0 | | 86 | 52-124 | 7 | 20 | | 1 |
| Hexachlorobenzene | 43.6 | 1.00 | ug/L | 50.0 | | 87 | 53-125 | 7 | 20 | | 1 |
| Hexachlorobutadiene | 38.7 | 1.00 | ug/L | 50.0 | | 77 | 22-124 | 2 | 20 | | 1 |
| Hexachlorocyclopentadiene | 32.7 | 15.0 | ug/L | 50.0 | | 65 | 23-119 | 5 | 20 | | 1 |
| Hexachloroethane | 38.1 | 1.00 | ug/L | 50.0 | | 76 | 21-115 | 0.9 | 20 | | 1 |
| Indeno(1,2,3-cd)pyrene | 43.5 | 2.00 | ug/L | 50.0 | | 87 | 52-134 | 8 | 20 | | 1 |
| Isophorone | 41.5 | 0.600 | ug/L | 50.0 | | 83 | 42-124 | 7 | 20 | | 1 |
| Naphthalene | 40.5 | 4.00 | ug/L | 50.0 | | 81 | 40-121 | 6 | 20 | | 1 |
| Nitrobenzene | 43.0 | 0.600 | ug/L | 50.0 | | 86 | 45-121 | 5 | 20 | | 1 |
| N-Nitrosodimethylamine | 26.6 | 1.00 | ug/L | 50.0 | | 53 | 25-110 | 10 | 20 | | 1 |
| N-Nitrosodi-n-propylamine | 40.9 | 2.00 | ug/L | 50.0 | | 82 | 49-119 | 7 | 20 | | 1 |
| N-Nitrosodiphenylamine | 43.9 | 0.600 | ug/L | 50.0 | | 88 | 51-123 | 7 | 20 | | 1 |
| N-Nitrosopyrrolidine | 39.2 | 1.00 | ug/L | 50.0 | | 78 | 48-113 | 3 | 20 | | 1 |
| Pentachlorophenol | 44.3 | 30.0 | ug/L | 50.0 | | 89 | 35-138 | 7 | 20 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Semivolatile Organic Compounds by GC/MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0295 - SW3510*** *(Continued)* | | | | | | | | | | | |
| **(B24J0295-BSD1), LCS Dup** (Continued) | | | | *Prepared: 10/07/2024 08:45* | | | *Analyzed: 10/19/2024 13:59* | | | | |
| Phenanthrene | 45.1 | 1.00 | ug/L | 50.0 | | 90 | 59-120 | 6 | 20 | | 1 |
| Phenol | 21.0 | 1.00 | ug/L | 50.0 | | 42 | 13-131 | 5 | 20 | | 1 |
| Pyrene | 44.0 | 1.00 | ug/L | 50.0 | | 88 | 57-126 | 8 | 20 | | 1 |
| Pyridine | 22.9 | 10.0 | ug/L | 50.0 | | 46 | 4-65 | 0.7 | 20 | | 1 |
| *Surrogate: 2-Fluorophenol* | *39.8* | | *ug/L* | *66.7* | | *60* | *19-119* | | | | 1 |
| *Surrogate: Phenol-d5* | *27.1* | | *ug/L* | *66.7* | | *41* | *10-65* | | | | 1 |
| *Surrogate: Nitrobenzene-d5* | *58.1* | | *ug/L* | *66.7* | | *87* | *44-120* | | | | 1 |
| *Surrogate: 2-Fluorobiphenyl* | *53.9* | | *ug/L* | *66.7* | | *81* | *44-119* | | | | 1 |
| *Surrogate: 2,4,6-Tribromophenol* | *60.0* | | *ug/L* | *66.7* | | *90* | *43-140* | | | | 1 |
| *Surrogate: 4-Terphenyl-d14* | *59.8* | | *ug/L* | *66.7* | | *90* | *50-134* | | | | 1 |
| ***Batch: B24J0426 - SW3510*** | | | | | | | | | | | |
| **(B24J0426-BLK1), Blank** | | | | *Prepared: 10/08/2024 15:00* | | | *Analyzed: 10/09/2024 12:28* | | | | |
| 1-Methylnaphthalene | <0.0150 | 0.0200 | ug/L | | | | | | | U | 1 |
| 2-Methylnaphthalene | 0.00284 | 0.0200 | ug/L | | | | | | | J | 1 |
| Acenaphthene | <0.0100 | 0.0150 | ug/L | | | | | | | U | 1 |
| Acenaphthylene | <0.0100 | 0.0150 | ug/L | | | | | | | U | 1 |
| Anthracene | <0.00750 | 0.0100 | ug/L | | | | | | | U | 1 |
| Benzo(a)anthracene | 0.00552 | 0.0150 | ug/L | | | | | | | J | 1 |
| Benzo(a)pyrene | 0.00459 | 0.0100 | ug/L | | | | | | | J | 1 |
| Benzo(b)fluoranthene | 0.00717 | 0.0100 | ug/L | | | | | | | J | 1 |
| Benzo(g,h,i)perylene | <0.0100 | 0.0150 | ug/L | | | | | | | U | 1 |
| Benzo(k)fluoranthene | <0.0100 | 0.0150 | ug/L | | | | | | | U | 1 |
| Chrysene | 0.00698 | 0.0200 | ug/L | | | | | | | J | 1 |
| Dibenzo(a,h)anthracene | <0.0150 | 0.0200 | ug/L | | | | | | | U | 1 |
| Fluoranthene | 0.0111 | 0.0150 | ug/L | | | | | | | J | 1 |
| Fluorene | <0.0100 | 0.0150 | ug/L | | | | | | | U | 1 |
| Indeno(1,2,3-cd)pyrene | 0.00442 | 0.0150 | ug/L | | | | | | | J | 1 |
| Naphthalene | 0.00798 | 0.0150 | ug/L | | | | | | | J | 1 |
| Phenanthrene | 0.00828 | 0.0200 | ug/L | | | | | | | J | 1 |
| Pyrene | 0.00745 | 0.0100 | ug/L | | | | | | | J | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | *0.367* | | *ug/L* | *0.500* | | *73* | *32-114* | | | | 1 |
| *Surrogate: Fluoranthene-d10* | *0.361* | | *ug/L* | *0.500* | | *72* | *49-130* | | | | 1 |
| **(B24J0426-BS1), LCS** | | | | *Prepared: 10/08/2024 15:00* | | | *Analyzed: 10/09/2024 13:09* | | | | |
| 1-Methylnaphthalene | 4.67 | 0.200 | ug/L | 5.00 | | 93 | 41-115 | | | | 1 |
| 2-Methylnaphthalene | 4.34 | 0.200 | ug/L | 5.00 | | 87 | 39-114 | | | | 1 |
| Acenaphthene | 4.87 | 0.150 | ug/L | 5.00 | | 97 | 48-114 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Semivolatile Organic Compounds by GC/MS

(Continued)

***Batch: B24J0426 - SW3510*** *(Continued)*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **(B24J0426-BS1), LCS** (Continued) | | | | *Prepared: 10/08/2024 15:00* | | | *Analyzed: 10/09/2024 13:09* | | | | |
| Acenaphthylene | 4.99 | 0.150 | ug/L | 5.00 | | 100 | 35-121 | | | | 1 |
| Anthracene | 4.65 | 0.100 | ug/L | 5.00 | | 93 | 53-119 | | | | 1 |
| Benzo(a)anthracene | 4.08 | 0.150 | ug/L | 5.00 | | 82 | 59-120 | | | | 1 |
| Benzo(a)pyrene | 4.98 | 0.100 | ug/L | 5.00 | | 100 | 53-120 | | | | 1 |
| Benzo(b)fluoranthene | 4.95 | 0.100 | ug/L | 5.00 | | 99 | 53-126 | | | B | 1 |
| Benzo(g,h,i)perylene | 4.81 | 0.150 | ug/L | 5.00 | | 96 | 44-128 | | | | 1 |
| Benzo(k)fluoranthene | 4.74 | 0.150 | ug/L | 5.00 | | 95 | 54-125 | | | | 1 |
| Chrysene | 4.96 | 0.200 | ug/L | 5.00 | | 99 | 57-120 | | | | 1 |
| Dibenzo(a,h)anthracene | 4.97 | 0.200 | ug/L | 5.00 | | 99 | 44-131 | | | | 1 |
| Fluoranthene | 4.72 | 0.150 | ug/L | 5.00 | | 94 | 58-120 | | | B | 1 |
| Fluorene | 5.03 | 0.150 | ug/L | 5.00 | | 101 | 50-118 | | | | 1 |
| Indeno(1,2,3-cd)pyrene | 4.78 | 0.150 | ug/L | 5.00 | | 96 | 48-130 | | | | 1 |
| Naphthalene | 4.68 | 0.150 | ug/L | 5.00 | | 94 | 43-114 | | | B | 1 |
| Phenanthrene | 4.93 | 0.200 | ug/L | 5.00 | | 99 | 53-115 | | | | 1 |
| Pyrene | 5.15 | 0.100 | ug/L | 5.00 | | 103 | 53-121 | | | B | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | *3.92* | | *ug/L* | *5.00* | | *78* | *32-114* | | | | 1 |
| *Surrogate: Fluoranthene-d10* | *4.13* | | *ug/L* | *5.00* | | *83* | *49-130* | | | | 1 |
| **(B24J0426-BSD1), LCS Dup** | | | | *Prepared: 10/08/2024 15:00* | | | *Analyzed: 10/09/2024 13:53* | | | | |
| 1-Methylnaphthalene | 4.56 | 0.200 | ug/L | 5.00 | | 91 | 41-115 | 2 | 40 | | 1 |
| 2-Methylnaphthalene | 4.27 | 0.200 | ug/L | 5.00 | | 85 | 39-114 | 2 | 40 | | 1 |
| Acenaphthene | 4.85 | 0.150 | ug/L | 5.00 | | 97 | 48-114 | 0.5 | 40 | | 1 |
| Acenaphthylene | 4.96 | 0.150 | ug/L | 5.00 | | 99 | 35-121 | 0.5 | 40 | | 1 |
| Anthracene | 4.60 | 0.100 | ug/L | 5.00 | | 92 | 53-119 | 1 | 40 | | 1 |
| Benzo(a)anthracene | 4.09 | 0.150 | ug/L | 5.00 | | 82 | 59-120 | 0.2 | 40 | | 1 |
| Benzo(a)pyrene | 4.92 | 0.100 | ug/L | 5.00 | | 98 | 53-120 | 1 | 40 | | 1 |
| Benzo(b)fluoranthene | 4.76 | 0.100 | ug/L | 5.00 | | 95 | 53-126 | 4 | 40 | B | 1 |
| Benzo(g,h,i)perylene | 4.82 | 0.150 | ug/L | 5.00 | | 96 | 44-128 | 0.2 | 40 | | 1 |
| Benzo(k)fluoranthene | 4.81 | 0.150 | ug/L | 5.00 | | 96 | 54-125 | 1 | 40 | | 1 |
| Chrysene | 4.95 | 0.200 | ug/L | 5.00 | | 99 | 57-120 | 0.03 | 40 | | 1 |
| Dibenzo(a,h)anthracene | 4.94 | 0.200 | ug/L | 5.00 | | 99 | 44-131 | 0.5 | 40 | | 1 |
| Fluoranthene | 4.76 | 0.150 | ug/L | 5.00 | | 95 | 58-120 | 0.9 | 40 | B | 1 |
| Fluorene | 5.04 | 0.150 | ug/L | 5.00 | | 101 | 50-118 | 0.2 | 40 | | 1 |
| Indeno(1,2,3-cd)pyrene | 4.83 | 0.150 | ug/L | 5.00 | | 97 | 48-130 | 1 | 40 | | 1 |
| Naphthalene | 4.64 | 0.150 | ug/L | 5.00 | | 93 | 43-114 | 0.9 | 40 | B | 1 |
| Phenanthrene | 4.82 | 0.200 | ug/L | 5.00 | | 96 | 53-115 | 2 | 40 | | 1 |
| Pyrene | 5.10 | 0.100 | ug/L | 5.00 | | 102 | 53-121 | 0.8 | 40 | B | 1 |
| *Surrogate: 2-Methylnaphthalene-d10* | *3.87* | | *ug/L* | *5.00* | | *77* | *32-114* | | | | 1 |
| *Surrogate: Fluoranthene-d10* | *4.04* | | *ug/L* | *5.00* | | *81* | *49-130* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Polychlorinated Biphenyls (PCBs) by GC/ECD

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0391 - SW3510*** | | | | | | | | | | | |
| **(B24J0391-BLK1), Blank** | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/08/2024 20:57* | | | | |
| Aroclor 1016 | <0.500 | 0.600 | ug/L | | | | | | | U | 1 |
| Aroclor 1221 | <0.500 | 0.600 | ug/L | | | | | | | U | 1 |
| Aroclor 1232 | <0.500 | 0.600 | ug/L | | | | | | | U | 1 |
| Aroclor 1242 | <0.500 | 0.600 | ug/L | | | | | | | U | 1 |
| Aroclor 1248 | <0.500 | 0.600 | ug/L | | | | | | | U | 1 |
| Aroclor 1254 | <0.500 | 0.600 | ug/L | | | | | | | U | 1 |
| Aroclor 1260 | <0.500 | 0.600 | ug/L | | | | | | | U | 1 |
| Aroclor 1262 | <0.500 | 0.600 | ug/L | | | | | | | U | 1 |
| Aroclor 1268 | <0.500 | 0.600 | ug/L | | | | | | | U | 1 |
| Total PCB | <0.600 | 0.700 | ug/L | | | | | | | U | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.0976* | | *ug/L* | *0.100* | | *98* | *10-139* | | | Q | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0521* | | *ug/L* | *0.100* | | *52* | *13-133* | | | | 1 |
| **(B24J0391-BS1), LCS** | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/08/2024 21:14* | | | | |
| Aroclor 1016 | 0.385 | 0.600 | ug/L | 0.400 | | 96 | 46-129 | | | J | 1 |
| Aroclor 1260 | 0.348 | 0.600 | ug/L | 0.400 | | 87 | 45-134 | | | J | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.102* | | *ug/L* | *0.100* | | *102* | *10-139* | | | Q | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0673* | | *ug/L* | *0.100* | | *67* | *13-133* | | | | 1 |
| **(B24J0391-BSD1), LCS Dup** | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/08/2024 21:32* | | | | |
| Aroclor 1016 | 0.376 | 0.600 | ug/L | 0.400 | | 94 | 46-129 | 2 | 20 | J | 1 |
| Aroclor 1260 | 0.359 | 0.600 | ug/L | 0.400 | | 90 | 45-134 | 3 | 20 | J | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.106* | | *ug/L* | *0.100* | | *106* | *10-139* | | | Q | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0680* | | *ug/L* | *0.100* | | *68* | *13-133* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Organochlorine Pesticides by GC/ECD

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0392 - SW3510*** | | | | | | | | | | | |
| **(B24J0392-BLK1), Blank** | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/22/2024 19:03* | | | | |
| 4,4'-DDD | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| 4,4'-DDD [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| 4,4'-DDE | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| 4,4'-DDE [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| 4,4'-DDT | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| 4,4'-DDT [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Aldrin | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Aldrin [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| alpha-BHC | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| alpha-BHC [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| alpha-Chlordane | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| alpha-Chlordane [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| beta-BHC | <0.0500 | 0.200 | ug/L | | | | | | | U | 1 |
| beta-BHC [2C] | <0.0500 | 0.200 | ug/L | | | | | | | U | 1 |
| Chlordane | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Chlordane [2C] | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| delta-BHC | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| delta-BHC [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Dieldrin | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Dieldrin [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan I | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan I [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan II | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan II [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan sulfate | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan sulfate [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin aldehyde | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin aldehyde [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin ketone | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin ketone [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| gamma-BHC | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| gamma-BHC [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| gamma-Chlordane | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| gamma-Chlordane [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Heptachlor | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Heptachlor [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Heptachlor epoxide | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Heptachlor epoxide [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |

## Quality Control
(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Organochlorine Pesticides by GC/ECD
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0392 - SW3510*** *(Continued)* | | | | | | | | | | | |
| **(B24J0392-BLK1), Blank** (Continued) | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/22/2024 19:03* | | | | |
| Methoxychlor | <0.0500 | 0.0800 | ug/L | | | | | | | U | 1 |
| Methoxychlor [2C] | <0.0500 | 0.0800 | ug/L | | | | | | | U | 1 |
| Toxaphene | <2.00 | 2.00 | ug/L | | | | | | | U | 1 |
| Toxaphene [2C] | <2.00 | 2.00 | ug/L | | | | | | | U | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.107* | | *ug/L* | *0.100* | | *107* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.149* | | *ug/L* | *0.100* | | *149* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0606* | | *ug/L* | *0.100* | | *61* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0662* | | *ug/L* | *0.100* | | *66* | *44-124* | | | | 1 |
| **(B24J0392-BS1), LCS-Reg** | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/22/2024 19:20* | | | | |
| 4,4'-DDD | 0.0863 | 0.0400 | ug/L | 0.100 | | 86 | 56-143 | | | | 1 |
| 4,4'-DDD [2C] | 0.0880 | 0.0400 | ug/L | 0.100 | | 88 | 56-143 | | | | 1 |
| 4,4'-DDE | 0.0814 | 0.0400 | ug/L | 0.100 | | 81 | 57-135 | | | | 1 |
| 4,4'-DDE [2C] | 0.0866 | 0.0400 | ug/L | 0.100 | | 87 | 57-135 | | | | 1 |
| 4,4'-DDT | 0.0888 | 0.0400 | ug/L | 0.100 | | 89 | 51-143 | | | | 1 |
| 4,4'-DDT [2C] | 0.0955 | 0.0400 | ug/L | 0.100 | | 96 | 51-143 | | | | 1 |
| Aldrin | 0.0753 | 0.0400 | ug/L | 0.100 | | 75 | 45-134 | | | | 1 |
| Aldrin [2C] | 0.0822 | 0.0400 | ug/L | 0.100 | | 82 | 45-134 | | | | 1 |
| alpha-BHC | 0.0832 | 0.0400 | ug/L | 0.100 | | 83 | 54-138 | | | | 1 |
| alpha-BHC [2C] | 0.0875 | 0.0400 | ug/L | 0.100 | | 87 | 54-138 | | | | 1 |
| alpha-Chlordane | 0.0813 | 0.0400 | ug/L | 0.100 | | 81 | 60-129 | | | | 1 |
| alpha-Chlordane [2C] | 0.0804 | 0.0400 | ug/L | 0.100 | | 80 | 60-129 | | | | 1 |
| beta-BHC | 0.0819 | 0.200 | ug/L | 0.100 | | 82 | 56-136 | | | J | 1 |
| beta-BHC [2C] | 0.0923 | 0.200 | ug/L | 0.100 | | 92 | 56-136 | | | J | 1 |
| delta-BHC | 0.0851 | 0.0400 | ug/L | 0.100 | | 85 | 52-142 | | | | 1 |
| delta-BHC [2C] | 0.0879 | 0.0400 | ug/L | 0.100 | | 88 | 52-142 | | | | 1 |
| Dieldrin | 0.0848 | 0.0400 | ug/L | 0.100 | | 85 | 60-136 | | | | 1 |
| Dieldrin [2C] | 0.0921 | 0.0400 | ug/L | 0.100 | | 92 | 60-136 | | | | 1 |
| Endosulfan I | 0.0891 | 0.0400 | ug/L | 0.100 | | 89 | 62-126 | | | | 1 |
| Endosulfan I [2C] | 0.0905 | 0.0400 | ug/L | 0.100 | | 91 | 62-126 | | | | 1 |
| Endosulfan II | 0.0851 | 0.0400 | ug/L | 0.100 | | 85 | 52-135 | | | | 1 |
| Endosulfan II [2C] | 0.0916 | 0.0400 | ug/L | 0.100 | | 92 | 52-135 | | | | 1 |
| Endosulfan sulfate | 0.0916 | 0.0400 | ug/L | 0.100 | | 92 | 62-133 | | | | 1 |
| Endosulfan sulfate [2C] | 0.0919 | 0.0400 | ug/L | 0.100 | | 92 | 62-133 | | | | 1 |
| Endrin | 0.0893 | 0.0400 | ug/L | 0.100 | | 89 | 60-138 | | | | 1 |
| Endrin [2C] | 0.0913 | 0.0400 | ug/L | 0.100 | | 91 | 60-138 | | | | 1 |
| Endrin aldehyde | 0.0906 | 0.0400 | ug/L | 0.100 | | 91 | 51-132 | | | | 1 |
| Endrin aldehyde [2C] | 0.0897 | 0.0400 | ug/L | 0.100 | | 90 | 51-132 | | | | 1 |
| Endrin ketone | 0.0922 | 0.0400 | ug/L | 0.100 | | 92 | 58-134 | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Organochlorine Pesticides by GC/ECD

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0392 - SW3510*** *(Continued)* | | | | | | | | | | | |
| **(B24J0392-BS1), LCS-Reg** (Continued) | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/22/2024 19:36* | | | | |
| Endrin ketone [2C] | 0.100 | 0.0400 | ug/L | 0.100 | | 100 | 58-134 | | | | 1 |
| gamma-BHC | 0.0838 | 0.0400 | ug/L | 0.100 | | 84 | 59-134 | | | | 1 |
| gamma-BHC [2C] | 0.0876 | 0.0400 | ug/L | 0.100 | | 88 | 59-134 | | | | 1 |
| gamma-Chlordane | 0.0767 | 0.0400 | ug/L | 0.100 | | 77 | 56-136 | | | | 1 |
| gamma-Chlordane [2C] | 0.0914 | 0.0400 | ug/L | 0.100 | | 91 | 56-136 | | | | 1 |
| Heptachlor | 0.0850 | 0.0400 | ug/L | 0.100 | | 85 | 54-130 | | | | 1 |
| Heptachlor [2C] | 0.0854 | 0.0400 | ug/L | 0.100 | | 85 | 54-130 | | | | 1 |
| Heptachlor epoxide | 0.0865 | 0.0400 | ug/L | 0.100 | | 87 | 61-133 | | | | 1 |
| Heptachlor epoxide [2C] | 0.0875 | 0.0400 | ug/L | 0.100 | | 87 | 61-133 | | | | 1 |
| Methoxychlor | 0.0971 | 0.0800 | ug/L | 0.100 | | 97 | 54-145 | | | | 1 |
| Methoxychlor [2C] | 0.0938 | 0.0800 | ug/L | 0.100 | | 94 | 54-145 | | | | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.118* | | *ug/L* | *0.100* | | *118* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.167* | | *ug/L* | *0.100* | | *167* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0709* | | *ug/L* | *0.100* | | *71* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0730* | | *ug/L* | *0.100* | | *73* | *44-124* | | | | 1 |
| **(B24J0392-BS2), LCS-Tox** | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/22/2024 19:36* | | | | |
| Toxaphene | 2.41 | 2.00 | ug/L | 3.00 | | 80 | 33-134 | | | | 1 |
| Toxaphene [2C] | 2.47 | 2.00 | ug/L | 3.00 | | 82 | 33-134 | | | | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.109* | | *ug/L* | *0.100* | | *109* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.158* | | *ug/L* | *0.100* | | *158* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0679* | | *ug/L* | *0.100* | | *68* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0713* | | *ug/L* | *0.100* | | *71* | *44-124* | | | | 1 |
| **(B24J0392-BS3), LCS-Chlor** | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/22/2024 19:53* | | | | |
| Chlordane | 1.59 | 1.00 | ug/L | 1.00 | | 159 | 62-140 | | | S | 1 |
| Chlordane [2C] | 1.79 | 1.00 | ug/L | 1.00 | | 179 | 62-140 | | | S | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.110* | | *ug/L* | *0.100* | | *110* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.158* | | *ug/L* | *0.100* | | *158* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0632* | | *ug/L* | *0.100* | | *63* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0640* | | *ug/L* | *0.100* | | *64* | *44-124* | | | | 1 |
| **(B24J0392-BSD1), LCS Dup-Reg** | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/22/2024 20:09* | | | | |
| 4,4'-DDD | 0.0845 | 0.0400 | ug/L | 0.100 | | 84 | 56-143 | 2 | 30 | | 1 |
| 4,4'-DDD [2C] | 0.0832 | 0.0400 | ug/L | 0.100 | | 83 | 56-143 | 6 | 30 | | 1 |
| 4,4'-DDE | 0.0852 | 0.0400 | ug/L | 0.100 | | 85 | 57-135 | 4 | 30 | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Organochlorine Pesticides by GC/ECD

(Continued)

***Batch: B24J0392 - SW3510*** *(Continued)*

**(B24J0392-BSD1), LCS Dup-Reg** (Continued) *Prepared: 10/08/2024 09:30 Analyzed: 10/22/2024 20:26*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDE [2C] | 0.0836 | 0.0400 | ug/L | 0.100 | | 84 | 57-135 | 4 | 30 | | 1 |
| 4,4'-DDT | 0.0880 | 0.0400 | ug/L | 0.100 | | 88 | 51-143 | 0.9 | 30 | | 1 |
| 4,4'-DDT [2C] | 0.0894 | 0.0400 | ug/L | 0.100 | | 89 | 51-143 | 7 | 30 | | 1 |
| Aldrin | 0.0735 | 0.0400 | ug/L | 0.100 | | 73 | 45-134 | 2 | 30 | | 1 |
| Aldrin [2C] | 0.0779 | 0.0400 | ug/L | 0.100 | | 78 | 45-134 | 5 | 30 | | 1 |
| alpha-BHC | 0.0812 | 0.0400 | ug/L | 0.100 | | 81 | 54-138 | 2 | 30 | | 1 |
| alpha-BHC [2C] | 0.0864 | 0.0400 | ug/L | 0.100 | | 86 | 54-138 | 1 | 30 | | 1 |
| alpha-Chlordane | 0.0794 | 0.0400 | ug/L | 0.100 | | 79 | 60-129 | 2 | 30 | | 1 |
| alpha-Chlordane [2C] | 0.0826 | 0.0400 | ug/L | 0.100 | | 83 | 60-129 | 3 | 30 | | 1 |
| beta-BHC | 0.0803 | 0.200 | ug/L | 0.100 | | 80 | 56-136 | 2 | 30 | J | 1 |
| beta-BHC [2C] | 0.0878 | 0.200 | ug/L | 0.100 | | 88 | 56-136 | 5 | 30 | J | 1 |
| delta-BHC | 0.0838 | 0.0400 | ug/L | 0.100 | | 84 | 52-142 | 2 | 30 | | 1 |
| delta-BHC [2C] | 0.0838 | 0.0400 | ug/L | 0.100 | | 84 | 52-142 | 5 | 30 | | 1 |
| Dieldrin | 0.0823 | 0.0400 | ug/L | 0.100 | | 82 | 60-136 | 3 | 30 | | 1 |
| Dieldrin [2C] | 0.0866 | 0.0400 | ug/L | 0.100 | | 87 | 60-136 | 6 | 30 | | 1 |
| Endosulfan I | 0.0839 | 0.0400 | ug/L | 0.100 | | 84 | 62-126 | 6 | 30 | | 1 |
| Endosulfan I [2C] | 0.0836 | 0.0400 | ug/L | 0.100 | | 84 | 62-126 | 8 | 30 | | 1 |
| Endosulfan II | 0.0831 | 0.0400 | ug/L | 0.100 | | 83 | 52-135 | 2 | 30 | | 1 |
| Endosulfan II [2C] | 0.0859 | 0.0400 | ug/L | 0.100 | | 86 | 52-135 | 6 | 30 | | 1 |
| Endosulfan sulfate | 0.0881 | 0.0400 | ug/L | 0.100 | | 88 | 62-133 | 4 | 30 | | 1 |
| Endosulfan sulfate [2C] | 0.0859 | 0.0400 | ug/L | 0.100 | | 86 | 62-133 | 7 | 30 | | 1 |
| Endrin | 0.0863 | 0.0400 | ug/L | 0.100 | | 86 | 60-138 | 3 | 30 | | 1 |
| Endrin [2C] | 0.0868 | 0.0400 | ug/L | 0.100 | | 87 | 60-138 | 5 | 30 | | 1 |
| Endrin aldehyde | 0.0899 | 0.0400 | ug/L | 0.100 | | 90 | 51-132 | 0.8 | 30 | | 1 |
| Endrin aldehyde [2C] | 0.0851 | 0.0400 | ug/L | 0.100 | | 85 | 51-132 | 5 | 30 | | 1 |
| Endrin ketone | 0.0879 | 0.0400 | ug/L | 0.100 | | 88 | 58-134 | 5 | 30 | | 1 |
| Endrin ketone [2C] | 0.0908 | 0.0400 | ug/L | 0.100 | | 91 | 58-134 | 10 | 30 | | 1 |
| gamma-BHC | 0.0819 | 0.0400 | ug/L | 0.100 | | 82 | 59-134 | 2 | 30 | | 1 |
| gamma-BHC [2C] | 0.0830 | 0.0400 | ug/L | 0.100 | | 83 | 59-134 | 5 | 30 | | 1 |
| gamma-Chlordane | 0.0747 | 0.0400 | ug/L | 0.100 | | 75 | 56-136 | 3 | 30 | | 1 |
| gamma-Chlordane [2C] | 0.0866 | 0.0400 | ug/L | 0.100 | | 87 | 56-136 | 5 | 30 | | 1 |
| Heptachlor | 0.0816 | 0.0400 | ug/L | 0.100 | | 82 | 54-130 | 4 | 30 | | 1 |
| Heptachlor [2C] | 0.0811 | 0.0400 | ug/L | 0.100 | | 81 | 54-130 | 5 | 30 | | 1 |
| Heptachlor epoxide | 0.0840 | 0.0400 | ug/L | 0.100 | | 84 | 61-133 | 3 | 30 | | 1 |
| Heptachlor epoxide [2C] | 0.0834 | 0.0400 | ug/L | 0.100 | | 83 | 61-133 | 5 | 30 | | 1 |
| Methoxychlor | 0.0921 | 0.0800 | ug/L | 0.100 | | 92 | 54-145 | 5 | 30 | | 1 |
| Methoxychlor [2C] | 0.0866 | 0.0800 | ug/L | 0.100 | | 87 | 54-145 | 8 | 30 | | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.111* | | *ug/L* | *0.100* | | *111* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.154* | | *ug/L* | *0.100* | | *154* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0676* | | *ug/L* | *0.100* | | *68* | *44-124* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Organochlorine Pesticides by GC/ECD

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0392 - SW3510*** *(Continued)* | | | | | | | | | | | |
| **(B24J0392-BSD1), LCS Dup-Reg** (Continued) | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/22/2024 20:26* | | | | |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0678* | | *ug/L* | *0.100* | | *68* | *44-124* | | | | 1 |
| **(B24J0392-BSD2), LCS Dup-Tox** | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/22/2024 20:26* | | | | |
| Toxaphene | 2.58 | 2.00 | ug/L | 3.00 | | 86 | 33-134 | 7 | 30 | | 1 |
| Toxaphene [2C] | 2.64 | 2.00 | ug/L | 3.00 | | 88 | 33-134 | 7 | 30 | | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.115* | | *ug/L* | *0.100* | | *115* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.164* | | *ug/L* | *0.100* | | *164* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0724* | | *ug/L* | *0.100* | | *72* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0757* | | *ug/L* | *0.100* | | *76* | *44-124* | | | | 1 |
| **(B24J0392-BSD3), LCS Dup-Chlor** | | | | *Prepared: 10/08/2024 09:30* | | | *Analyzed: 10/22/2024 20:43* | | | | |
| Chlordane | 1.67 | 1.00 | ug/L | 1.00 | | 167 | 62-140 | 5 | 20 | S | 1 |
| Chlordane [2C] | 1.92 | 1.00 | ug/L | 1.00 | | 192 | 62-140 | 7 | 20 | S | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.116* | | *ug/L* | *0.100* | | *116* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.164* | | *ug/L* | *0.100* | | *164* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0784* | | *ug/L* | *0.100* | | *78* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0801* | | *ug/L* | *0.100* | | *80* | *44-124* | | | | 1 |
| ***Batch: B24K0020 - SW3510*** | | | | | | | | | | | |
| **(B24K0020-BLK1), Blank** | | | | *Prepared: 11/01/2024 11:00* | | | *Analyzed: 11/04/2024 19:08* | | | | |
| 4,4'-DDD | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| 4,4'-DDD [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| 4,4'-DDE | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| 4,4'-DDE [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| 4,4'-DDT | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| 4,4'-DDT [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Aldrin | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Aldrin [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| alpha-BHC | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| alpha-BHC [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| alpha-Chlordane | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| alpha-Chlordane [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| beta-BHC | <0.0500 | 0.200 | ug/L | | | | | | | U | 1 |
| beta-BHC [2C] | <0.0500 | 0.200 | ug/L | | | | | | | U | 1 |
| Chlordane | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |
| Chlordane [2C] | <0.500 | 1.00 | ug/L | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Organochlorine Pesticides by GC/ECD

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24K0020 - SW3510*** *(Continued)* | | | | | | | | | | | |
| **(B24K0020-BLK1), Blank** (Continued) | | | | *Prepared: 11/01/2024 11:00* | | | *Analyzed: 11/04/2024 19:08* | | | | |
| delta-BHC | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| delta-BHC [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Dieldrin | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Dieldrin [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan I | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan I [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan II | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan II [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan sulfate | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endosulfan sulfate [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin aldehyde | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin aldehyde [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin ketone | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Endrin ketone [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| gamma-BHC | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| gamma-BHC [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| gamma-Chlordane | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| gamma-Chlordane [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Heptachlor | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Heptachlor [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Heptachlor epoxide | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Heptachlor epoxide [2C] | <0.0250 | 0.0400 | ug/L | | | | | | | U | 1 |
| Methoxychlor | <0.0500 | 0.0800 | ug/L | | | | | | | U | 1 |
| Methoxychlor [2C] | <0.0500 | 0.0800 | ug/L | | | | | | | U | 1 |
| Toxaphene | <2.00 | 2.00 | ug/L | | | | | | | U | 1 |
| Toxaphene [2C] | <2.00 | 2.00 | ug/L | | | | | | | U | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.0903* | | *ug/L* | *0.100* | | *90* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.136* | | *ug/L* | *0.100* | | *136* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0481* | | *ug/L* | *0.100* | | *48* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0541* | | *ug/L* | *0.100* | | *54* | *44-124* | | | | 1 |
| **(B24K0020-BS1), LCS-Reg** | | | | *Prepared: 11/01/2024 11:00* | | | *Analyzed: 11/04/2024 19:25* | | | | |
| 4,4'-DDD | 0.0694 | 0.0400 | ug/L | 0.100 | | 69 | 56-143 | | | | 1 |
| 4,4'-DDD [2C] | 0.0772 | 0.0400 | ug/L | 0.100 | | 77 | 56-143 | | | | 1 |
| 4,4'-DDE | 0.0645 | 0.0400 | ug/L | 0.100 | | 65 | 57-135 | | | | 1 |
| 4,4'-DDE [2C] | 0.0770 | 0.0400 | ug/L | 0.100 | | 77 | 57-135 | | | | 1 |
| 4,4'-DDT | 0.0725 | 0.0400 | ug/L | 0.100 | | 73 | 51-143 | | | | 1 |

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## Quality Control
(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Organochlorine Pesticides by GC/ECD
(Continued)

***Batch: B24K0020 - SW3510*** *(Continued)*

**(B24K0020-BS1), LCS-Reg** (Continued) *Prepared: 11/01/2024 11:00 Analyzed: 11/04/2024 19:41*

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDT [2C] | 0.0810 | 0.0400 | ug/L | 0.100 | | 81 | 51-143 | | | | 1 |
| Aldrin | 0.0590 | 0.0400 | ug/L | 0.100 | | 59 | 45-134 | | | | 1 |
| Aldrin [2C] | 0.0694 | 0.0400 | ug/L | 0.100 | | 69 | 45-134 | | | | 1 |
| alpha-BHC | 0.0664 | 0.0400 | ug/L | 0.100 | | 66 | 54-138 | | | | 1 |
| alpha-BHC [2C] | 0.0753 | 0.0400 | ug/L | 0.100 | | 75 | 54-138 | | | | 1 |
| alpha-Chlordane | 0.0631 | 0.0400 | ug/L | 0.100 | | 63 | 60-129 | | | | 1 |
| alpha-Chlordane [2C] | 0.0762 | 0.0400 | ug/L | 0.100 | | 76 | 60-129 | | | | 1 |
| beta-BHC | 0.0681 | 0.200 | ug/L | 0.100 | | 68 | 56-136 | | | J | 1 |
| beta-BHC [2C] | 0.0782 | 0.200 | ug/L | 0.100 | | 78 | 56-136 | | | J | 1 |
| delta-BHC | 0.0698 | 0.0400 | ug/L | 0.100 | | 70 | 52-142 | | | | 1 |
| delta-BHC [2C] | 0.0828 | 0.0400 | ug/L | 0.100 | | 83 | 52-142 | | | | 1 |
| Dieldrin | 0.0696 | 0.0400 | ug/L | 0.100 | | 70 | 60-136 | | | | 1 |
| Dieldrin [2C] | 0.0793 | 0.0400 | ug/L | 0.100 | | 79 | 60-136 | | | | 1 |
| Endosulfan I | 0.0686 | 0.0400 | ug/L | 0.100 | | 69 | 62-126 | | | | 1 |
| Endosulfan I [2C] | 0.0788 | 0.0400 | ug/L | 0.100 | | 79 | 62-126 | | | | 1 |
| Endosulfan II | 0.0655 | 0.0400 | ug/L | 0.100 | | 65 | 52-135 | | | | 1 |
| Endosulfan II [2C] | 0.0778 | 0.0400 | ug/L | 0.100 | | 78 | 52-135 | | | | 1 |
| Endosulfan sulfate | 0.0689 | 0.0400 | ug/L | 0.100 | | 69 | 62-133 | | | | 1 |
| Endosulfan sulfate [2C] | 0.0763 | 0.0400 | ug/L | 0.100 | | 76 | 62-133 | | | | 1 |
| Endrin | 0.0702 | 0.0400 | ug/L | 0.100 | | 70 | 60-138 | | | | 1 |
| Endrin [2C] | 0.0798 | 0.0400 | ug/L | 0.100 | | 80 | 60-138 | | | | 1 |
| Endrin aldehyde | 0.0710 | 0.0400 | ug/L | 0.100 | | 71 | 51-132 | | | | 1 |
| Endrin aldehyde [2C] | 0.0802 | 0.0400 | ug/L | 0.100 | | 80 | 51-132 | | | | 1 |
| Endrin ketone | 0.0735 | 0.0400 | ug/L | 0.100 | | 73 | 58-134 | | | | 1 |
| Endrin ketone [2C] | 0.0823 | 0.0400 | ug/L | 0.100 | | 82 | 58-134 | | | | 1 |
| gamma-BHC | 0.0697 | 0.0400 | ug/L | 0.100 | | 70 | 59-134 | | | | 1 |
| gamma-BHC [2C] | 0.0806 | 0.0400 | ug/L | 0.100 | | 81 | 59-134 | | | | 1 |
| gamma-Chlordane | 0.0656 | 0.0400 | ug/L | 0.100 | | 66 | 56-136 | | | | 1 |
| gamma-Chlordane [2C] | 0.0771 | 0.0400 | ug/L | 0.100 | | 77 | 56-136 | | | | 1 |
| Heptachlor | 0.0637 | 0.0400 | ug/L | 0.100 | | 64 | 54-130 | | | | 1 |
| Heptachlor [2C] | 0.0712 | 0.0400 | ug/L | 0.100 | | 71 | 54-130 | | | | 1 |
| Heptachlor epoxide | 0.0705 | 0.0400 | ug/L | 0.100 | | 70 | 61-133 | | | | 1 |
| Heptachlor epoxide [2C] | 0.0792 | 0.0400 | ug/L | 0.100 | | 79 | 61-133 | | | | 1 |
| Methoxychlor | 0.0751 | 0.0800 | ug/L | 0.100 | | 75 | 54-145 | | | J | 1 |
| Methoxychlor [2C] | 0.0774 | 0.0800 | ug/L | 0.100 | | 77 | 54-145 | | | J | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.0948* | | *ug/L* | *0.100* | | *95* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.151* | | *ug/L* | *0.100* | | *151* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0649* | | *ug/L* | *0.100* | | *65* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0697* | | *ug/L* | *0.100* | | *70* | *44-124* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Organochlorine Pesticides by GC/ECD

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24K0020 - SW3510*** *(Continued)* | | | | | | | | | | | |
| **(B24K0020-BS2), LCS-Tox** | | | | *Prepared: 11/01/2024 11:00* | | | *Analyzed: 11/04/2024 19:41* | | | | |
| Toxaphene | 2.75 | 2.00 | ug/L | 3.00 | | 92 | 33-134 | | | | 1 |
| Toxaphene [2C] | 2.95 | 2.00 | ug/L | 3.00 | | 98 | 33-134 | | | | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.106* | | *ug/L* | *0.100* | | *106* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.153* | | *ug/L* | *0.100* | | *153* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0844* | | *ug/L* | *0.100* | | *84* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0922* | | *ug/L* | *0.100* | | *92* | *44-124* | | | | 1 |
| **(B24K0020-BS3), LCS-Chlor** | | | | *Prepared: 11/01/2024 11:00* | | | *Analyzed: 11/04/2024 19:58* | | | | |
| Chlordane | 1.55 | 1.00 | ug/L | 1.00 | | 155 | 62-140 | | | S | 1 |
| Chlordane [2C] | 1.87 | 1.00 | ug/L | 1.00 | | 187 | 62-140 | | | S | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.107* | | *ug/L* | *0.100* | | *107* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.165* | | *ug/L* | *0.100* | | *165* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0825* | | *ug/L* | *0.100* | | *83* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0846* | | *ug/L* | *0.100* | | *85* | *44-124* | | | | 1 |
| **(B24K0020-BSD1), LCS Dup-Reg** | | | | *Prepared: 11/01/2024 11:00* | | | *Analyzed: 11/04/2024 20:15* | | | | |
| 4,4'-DDD | 0.0792 | 0.0400 | ug/L | 0.100 | | 79 | 56-143 | 13 | 30 | | 1 |
| 4,4'-DDD [2C] | 0.0901 | 0.0400 | ug/L | 0.100 | | 90 | 56-143 | 16 | 30 | | 1 |
| 4,4'-DDE | 0.0740 | 0.0400 | ug/L | 0.100 | | 74 | 57-135 | 14 | 30 | | 1 |
| 4,4'-DDE [2C] | 0.0934 | 0.0400 | ug/L | 0.100 | | 93 | 57-135 | 19 | 30 | | 1 |
| 4,4'-DDT | 0.0836 | 0.0400 | ug/L | 0.100 | | 84 | 51-143 | 14 | 30 | | 1 |
| 4,4'-DDT [2C] | 0.0898 | 0.0400 | ug/L | 0.100 | | 90 | 51-143 | 10 | 30 | | 1 |
| Aldrin | 0.0683 | 0.0400 | ug/L | 0.100 | | 68 | 45-134 | 15 | 30 | | 1 |
| Aldrin [2C] | 0.0799 | 0.0400 | ug/L | 0.100 | | 80 | 45-134 | 14 | 30 | | 1 |
| alpha-BHC | 0.0750 | 0.0400 | ug/L | 0.100 | | 75 | 54-138 | 12 | 30 | | 1 |
| alpha-BHC [2C] | 0.0831 | 0.0400 | ug/L | 0.100 | | 83 | 54-138 | 10 | 30 | | 1 |
| alpha-Chlordane | 0.0702 | 0.0400 | ug/L | 0.100 | | 70 | 60-129 | 11 | 30 | | 1 |
| alpha-Chlordane [2C] | 0.0907 | 0.0400 | ug/L | 0.100 | | 91 | 60-129 | 17 | 30 | | 1 |
| beta-BHC | 0.0943 | 0.200 | ug/L | 0.100 | | 94 | 56-136 | 32 | 30 | P, J | 1 |
| beta-BHC [2C] | 0.0859 | 0.200 | ug/L | 0.100 | | 86 | 56-136 | 9 | 30 | J | 1 |
| delta-BHC | 0.0843 | 0.0400 | ug/L | 0.100 | | 84 | 52-142 | 19 | 30 | | 1 |
| delta-BHC [2C] | 0.0909 | 0.0400 | ug/L | 0.100 | | 91 | 52-142 | 9 | 30 | | 1 |
| Dieldrin | 0.0790 | 0.0400 | ug/L | 0.100 | | 79 | 60-136 | 13 | 30 | | 1 |
| Dieldrin [2C] | 0.0973 | 0.0400 | ug/L | 0.100 | | 97 | 60-136 | 20 | 30 | | 1 |
| Endosulfan I | 0.0769 | 0.0400 | ug/L | 0.100 | | 77 | 62-126 | 12 | 30 | | 1 |
| Endosulfan I [2C] | 0.0959 | 0.0400 | ug/L | 0.100 | | 96 | 62-126 | 20 | 30 | | 1 |
| Endosulfan II | 0.0713 | 0.0400 | ug/L | 0.100 | | 71 | 52-135 | 9 | 30 | | 1 |

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## Quality Control
(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Organochlorine Pesticides by GC/ECD
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24K0020 - SW3510*** *(Continued)* | | | | | | | | | | | |
| **(B24K0020-BSD1), LCS Dup-Reg** (Continued) | | | | *Prepared: 11/01/2024 11:00* | | | *Analyzed: 11/04/2024 20:31* | | | | |
| Endosulfan II [2C] | 0.0837 | 0.0400 | ug/L | 0.100 | | 84 | 52-135 | 7 | 30 | | 1 |
| Endosulfan sulfate | 0.0644 | 0.0400 | ug/L | 0.100 | | 64 | 62-133 | 7 | 30 | | 1 |
| Endosulfan sulfate [2C] | 0.0694 | 0.0400 | ug/L | 0.100 | | 69 | 62-133 | 10 | 30 | | 1 |
| Endrin | 0.0795 | 0.0400 | ug/L | 0.100 | | 80 | 60-138 | 12 | 30 | | 1 |
| Endrin [2C] | 0.0921 | 0.0400 | ug/L | 0.100 | | 92 | 60-138 | 14 | 30 | | 1 |
| Endrin aldehyde | 0.0646 | 0.0400 | ug/L | 0.100 | | 65 | 51-132 | 9 | 30 | | 1 |
| Endrin aldehyde [2C] | 0.0684 | 0.0400 | ug/L | 0.100 | | 68 | 51-132 | 16 | 30 | | 1 |
| Endrin ketone | 0.0744 | 0.0400 | ug/L | 0.100 | | 74 | 58-134 | 1 | 30 | | 1 |
| Endrin ketone [2C] | 0.0818 | 0.0400 | ug/L | 0.100 | | 82 | 58-134 | 0.6 | 30 | | 1 |
| gamma-BHC | 0.0811 | 0.0400 | ug/L | 0.100 | | 81 | 59-134 | 15 | 30 | | 1 |
| gamma-BHC [2C] | 0.0888 | 0.0400 | ug/L | 0.100 | | 89 | 59-134 | 10 | 30 | | 1 |
| gamma-Chlordane | 0.0711 | 0.0400 | ug/L | 0.100 | | 71 | 56-136 | 8 | 30 | | 1 |
| gamma-Chlordane [2C] | 0.0945 | 0.0400 | ug/L | 0.100 | | 95 | 56-136 | 20 | 30 | | 1 |
| Heptachlor | 0.0758 | 0.0400 | ug/L | 0.100 | | 76 | 54-130 | 17 | 30 | | 1 |
| Heptachlor [2C] | 0.0794 | 0.0400 | ug/L | 0.100 | | 79 | 54-130 | 11 | 30 | | 1 |
| Heptachlor epoxide | 0.0773 | 0.0400 | ug/L | 0.100 | | 77 | 61-133 | 9 | 30 | | 1 |
| Heptachlor epoxide [2C] | 0.0952 | 0.0400 | ug/L | 0.100 | | 95 | 61-133 | 18 | 30 | | 1 |
| Methoxychlor | 0.0829 | 0.0800 | ug/L | 0.100 | | 83 | 54-145 | 10 | 30 | | 1 |
| Methoxychlor [2C] | 0.0831 | 0.0800 | ug/L | 0.100 | | 83 | 54-145 | 7 | 30 | | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.106* | | *ug/L* | *0.100* | | *106* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.161* | | *ug/L* | *0.100* | | *161* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0736* | | *ug/L* | *0.100* | | *74* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0789* | | *ug/L* | *0.100* | | *79* | *44-124* | | | | 1 |
| **(B24K0020-BSD2), LCS Dup-Tox** | | | | *Prepared: 11/01/2024 11:00* | | | *Analyzed: 11/04/2024 20:31* | | | | |
| Toxaphene | 3.04 | 2.00 | ug/L | 3.00 | | 101 | 33-134 | 10 | 30 | | 1 |
| Toxaphene [2C] | 3.08 | 2.00 | ug/L | 3.00 | | 103 | 33-134 | 4 | 30 | | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.125* | | *ug/L* | *0.100* | | *125* | *12-124* | | | *S* | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.163* | | *ug/L* | *0.100* | | *163* | *12-124* | | | *S* | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0872* | | *ug/L* | *0.100* | | *87* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0930* | | *ug/L* | *0.100* | | *93* | *44-124* | | | | 1 |
| **(B24K0020-BSD3), LCS Dup-Chlor** | | | | *Prepared: 11/01/2024 11:00* | | | *Analyzed: 11/04/2024 20:48* | | | | |
| Chlordane | 1.52 | 1.00 | ug/L | 1.00 | | 152 | 62-140 | 1 | 20 | S | 1 |
| Chlordane [2C] | 1.73 | 1.00 | ug/L | 1.00 | | 173 | 62-140 | 8 | 20 | S | 1 |
| *Surrogate: Decachlorobiphenyl* | *0.110* | | *ug/L* | *0.100* | | *110* | *12-124* | | | | 1 |
| *Surrogate: Decachlorobiphenyl [2C]* | *0.150* | | *ug/L* | *0.100* | | *150* | *12-124* | | | *S* | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Organochlorine Pesticides by GC/ECD

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24K0020 - SW3510*** *(Continued)* | | | | | | | | | | | |
| **(B24K0020-BSD3), LCS Dup-Chlor** (Continued) | | | | *Prepared: 11/01/2024 11:00* | | | *Analyzed: 11/04/2024 20:48* | | | | |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene* | *0.0736* | | *ug/L* | *0.100* | | *74* | *44-124* | | | | 1 |
| *Surrogate: 2,4,5,6-Tetrachloro-m-xylene [2C]* | *0.0734* | | *ug/L* | *0.100* | | *73* | *44-124* | | | | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Metals by ICP-MS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0364 - SW3015*** | | | | | | | | | | | |
| **(B24J0364-BLK1), BLK** | | | | *Prepared: 10/07/2024 16:25 Analyzed: 10/14/2024 13:06* | | | | | | | |
| Aluminum | 0.0145 | 0.0500 | mg/L | | | | | | | J | 2 |
| Antimony | <0.00400 | 0.0100 | mg/L | | | | | | | U | 2 |
| Arsenic | <0.00200 | 0.0100 | mg/L | | | | | | | U | 2 |
| Barium | <0.00200 | 0.0100 | mg/L | | | | | | | U | 2 |
| Beryllium | <0.000800 | 0.00100 | mg/L | | | | | | | U | 2 |
| Cadmium | <0.000800 | 0.00100 | mg/L | | | | | | | U | 2 |
| Calcium | 0.0360 | 0.0500 | mg/L | | | | | | | J | 2 |
| Chromium | <0.00400 | 0.0100 | mg/L | | | | | | | U | 2 |
| Cobalt | <0.00400 | 0.0100 | mg/L | | | | | | | U | 2 |
| Copper | <0.00400 | 0.0100 | mg/L | | | | | | | U | 2 |
| Iron | <0.0400 | 0.0500 | mg/L | | | | | | | U | 2 |
| Lead | <0.00200 | 0.0100 | mg/L | | | | | | | U | 2 |
| Magnesium | 0.0102 | 0.0500 | mg/L | | | | | | | J | 2 |
| Manganese | <0.00400 | 0.0100 | mg/L | | | | | | | U | 2 |
| Nickel | <0.00400 | 0.0100 | mg/L | | | | | | | U | 2 |
| Potassium | <0.0400 | 0.0500 | mg/L | | | | | | | U | 2 |
| Selenium | <0.00400 | 0.0100 | mg/L | | | | | | | U | 2 |
| Silver | <0.000400 | 0.00100 | mg/L | | | | | | | U | 2 |
| Sodium | 1.10 | 0.0500 | mg/L | | | | | | | | 2 |
| Thallium | <0.000400 | 0.0100 | mg/L | | | | | | | U | 2 |
| Vanadium | <0.00200 | 0.0100 | mg/L | | | | | | | U | 2 |
| Zinc | <0.00800 | 0.0100 | mg/L | | | | | | | U | 2 |
| **(B24J0364-BLK1RS1), BLK** | | | | *Prepared: 10/07/2024 16:25 Analyzed: 10/15/2024 13:49* | | | | | | | |
| Aluminum | 0.0151 | 0.0250 | mg/L | | | | | | | J | 1 |
| Antimony | <0.00200 | 0.00500 | mg/L | | | | | | | U | 1 |
| Arsenic | <0.00100 | 0.00500 | mg/L | | | | | | | U | 1 |
| Barium | <0.00100 | 0.00500 | mg/L | | | | | | | U | 1 |
| Beryllium | <0.000400 | 0.000500 | mg/L | | | | | | | U | 1 |
| Cadmium | <0.000400 | 0.000500 | mg/L | | | | | | | U | 1 |
| Calcium | 0.0349 | 0.0250 | mg/L | | | | | | | | 1 |
| Chromium | <0.00200 | 0.00500 | mg/L | | | | | | | U | 1 |
| Cobalt | <0.00200 | 0.00500 | mg/L | | | | | | | U | 1 |
| Copper | <0.00200 | 0.00500 | mg/L | | | | | | | U | 1 |
| Iron | <0.0200 | 0.0250 | mg/L | | | | | | | U | 1 |
| Lead | <0.00100 | 0.00500 | mg/L | | | | | | | U | 1 |
| Magnesium | 0.00774 | 0.0250 | mg/L | | | | | | | J | 1 |
| Manganese | <0.00200 | 0.00500 | mg/L | | | | | | | U | 1 |
| Nickel | <0.00200 | 0.00500 | mg/L | | | | | | | U | 1 |
| Potassium | <0.0200 | 0.0250 | mg/L | | | | | | | U | 1 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Metals by ICP-MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0364 - SW3015*** *(Continued)* | | | | | | | | | | | |
| **(B24J0364-BLK1RS1), BLK** (Continued) | | | | *Prepared: 10/07/2024 16:25* | | | *Analyzed: 10/15/2024 13:49* | | | | |
| Selenium | <0.00200 | 0.00500 | mg/L | | | | | | | U | 1 |
| Silver | <0.000200 | 0.000500 | mg/L | | | | | | | U | 1 |
| Sodium | 1.14 | 0.0250 | mg/L | | | | | | | | 1 |
| Thallium | <0.000200 | 0.00500 | mg/L | | | | | | | U | 1 |
| Vanadium | <0.00100 | 0.00500 | mg/L | | | | | | | U | 1 |
| Zinc | <0.00400 | 0.00500 | mg/L | | | | | | | U | 1 |
| **(B24J0364-BS1), BS** | | | | *Prepared: 10/07/2024 16:25* | | | *Analyzed: 10/14/2024 13:08* | | | | |
| Aluminum | 0.623 | 0.125 | mg/L | 0.625 | | 100 | 84-117 | | | B | 5 |
| Antimony | 0.303 | 0.0250 | mg/L | 0.312 | | 97 | 85-117 | | | | 5 |
| Arsenic | 0.592 | 0.0250 | mg/L | 0.625 | | 95 | 84-116 | | | | 5 |
| Barium | 0.619 | 0.0250 | mg/L | 0.625 | | 99 | 86-114 | | | | 5 |
| Beryllium | 0.571 | 0.00250 | mg/L | 0.625 | | 91 | 83-121 | | | | 5 |
| Cadmium | 0.586 | 0.00250 | mg/L | 0.625 | | 94 | 87-115 | | | | 5 |
| Calcium | 7.53 | 0.125 | mg/L | 7.50 | | 100 | 87-118 | | | B | 5 |
| Chromium | 0.603 | 0.0250 | mg/L | 0.625 | | 96 | 85-116 | | | | 5 |
| Cobalt | 0.616 | 0.0250 | mg/L | 0.625 | | 99 | 86-115 | | | | 5 |
| Copper | 0.611 | 0.0250 | mg/L | 0.625 | | 98 | 85-118 | | | | 5 |
| Iron | 7.47 | 0.125 | mg/L | 7.50 | | 100 | 87-118 | | | | 5 |
| Lead | 0.593 | 0.0250 | mg/L | 0.625 | | 95 | 88-115 | | | | 5 |
| Magnesium | 7.24 | 0.125 | mg/L | 7.50 | | 97 | 83-118 | | | | 5 |
| Manganese | 0.607 | 0.0250 | mg/L | 0.625 | | 97 | 87-111 | | | | 5 |
| Nickel | 0.624 | 0.0250 | mg/L | 0.625 | | 100 | 85-117 | | | | 5 |
| Potassium | 7.53 | 0.125 | mg/L | 7.50 | | 100 | 87-115 | | | | 5 |
| Selenium | 0.545 | 0.0250 | mg/L | 0.625 | | 87 | 80-120 | | | | 5 |
| Silver | 0.246 | 0.00250 | mg/L | 0.250 | | 98 | 85-116 | | | | 5 |
| Sodium | 8.34 | 0.125 | mg/L | 7.50 | | 111 | 85-117 | | | B | 5 |
| Thallium | 0.595 | 0.0250 | mg/L | 0.625 | | 95 | 82-116 | | | | 5 |
| Vanadium | 0.618 | 0.0250 | mg/L | 0.625 | | 99 | 86-115 | | | | 5 |
| Zinc | 0.569 | 0.0250 | mg/L | 0.625 | | 91 | 83-119 | | | | 5 |
| **(B24J0364-DUP1), Serial Dilution** | | | **Source: O24J0273-03** | *Prepared: 10/07/2024 16:25* | | | *Analyzed: 10/14/2024 13:36* | | | | |
| Aluminum | <0.250 | 0.625 | mg/L | | ND | | | | 20 | U | 25 |
| Antimony | <0.0500 | 0.125 | mg/L | | ND | | | | 20 | U | 25 |
| Arsenic | <0.0250 | 0.125 | mg/L | | ND | | | | 20 | U | 25 |
| Barium | 0.321 | 0.125 | mg/L | | 0.331 | | | 3 | 20 | | 25 |
| Beryllium | <0.0100 | 0.0125 | mg/L | | ND | | | | 20 | U | 25 |
| Cadmium | <0.0100 | 0.0125 | mg/L | | ND | | | | 20 | U | 25 |
| Calcium | 139 | 0.625 | mg/L | | 135 | | | 3 | 20 | B | 25 |

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# Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

## Metals by ICP-MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0364 - SW3015*** *(Continued)* | | | | | | | | | | | |
| **(B24J0364-DUP1), Serial Dilution** (Continued) | | | | | **Source: O24J0273-03** | | *Prepared: 10/07/2024 16:25* | | *Analyzed: 10/14/2024 13:36* | | |
| Chromium | <0.0500 | 0.125 | mg/L | | ND | | | | 20 | U | 25 |
| Cobalt | <0.0500 | 0.125 | mg/L | | ND | | | | 20 | U | 25 |
| Copper | <0.0500 | 0.125 | mg/L | | ND | | | | 20 | U | 25 |
| Iron | 0.577 | 0.625 | mg/L | | 0.614 | | | 6 | 20 | J | 25 |
| Lead | <0.0250 | 0.125 | mg/L | | ND | | | | 20 | U | 25 |
| Magnesium | 12.1 | 0.625 | mg/L | | 11.8 | | | 2 | 20 | | 25 |
| Manganese | 0.134 | 0.125 | mg/L | | 0.136 | | | 2 | 20 | | 25 |
| Nickel | 0.0138 | 0.125 | mg/L | | 0.0178 | | | 26 | 20 | P, J | 25 |
| Potassium | 1.44 | 0.625 | mg/L | | 1.45 | | | 0.5 | 20 | | 25 |
| Selenium | <0.0500 | 0.125 | mg/L | | ND | | | | 20 | U | 25 |
| Silver | <0.00500 | 0.0125 | mg/L | | ND | | | | 20 | U | 25 |
| Sodium | 17.3 | 0.625 | mg/L | | 18.3 | | | 6 | 20 | B | 25 |
| Thallium | <0.00500 | 0.125 | mg/L | | ND | | | | 20 | U | 25 |
| Vanadium | <0.0250 | 0.125 | mg/L | | ND | | | | 20 | U | 25 |
| Zinc | <0.100 | 0.125 | mg/L | | ND | | | | 20 | U | 25 |
| **(B24J0364-MS1), MS** | | | | | **Source: O24J0273-03** | | *Prepared: 10/07/2024 16:25* | | *Analyzed: 10/14/2024 13:30* | | |
| Aluminum | 0.731 | 0.125 | mg/L | 0.625 | 0.0854 | 103 | 84-117 | | | B | 5 |
| Antimony | 0.308 | 0.0250 | mg/L | 0.312 | ND | 98 | 85-117 | | | | 5 |
| Arsenic | 0.607 | 0.0250 | mg/L | 0.625 | ND | 97 | 84-116 | | | | 5 |
| Barium | 0.918 | 0.0250 | mg/L | 0.625 | 0.331 | 94 | 86-114 | | | | 5 |
| Beryllium | 0.578 | 0.00250 | mg/L | 0.625 | ND | 93 | 83-121 | | | | 5 |
| Cadmium | 0.589 | 0.00250 | mg/L | 0.625 | ND | 94 | 87-115 | | | | 5 |
| Calcium | 139 | 0.125 | mg/L | 7.50 | 135 | 59 | 87-118 | | | S, B | 5 |
| Chromium | 0.606 | 0.0250 | mg/L | 0.625 | ND | 97 | 85-116 | | | | 5 |
| Cobalt | 0.608 | 0.0250 | mg/L | 0.625 | ND | 97 | 86-115 | | | | 5 |
| Copper | 0.586 | 0.0250 | mg/L | 0.625 | ND | 94 | 85-118 | | | | 5 |
| Iron | 7.97 | 0.125 | mg/L | 7.50 | 0.614 | 98 | 87-118 | | | | 5 |
| Lead | 0.577 | 0.0250 | mg/L | 0.625 | ND | 92 | 88-115 | | | | 5 |
| Magnesium | 18.5 | 0.125 | mg/L | 7.50 | 11.8 | 89 | 83-118 | | | | 5 |
| Manganese | 0.744 | 0.0250 | mg/L | 0.625 | 0.136 | 97 | 87-115 | | | | 5 |
| Nickel | 0.627 | 0.0250 | mg/L | 0.625 | 0.0178 | 97 | 85-117 | | | | 5 |
| Potassium | 8.69 | 0.125 | mg/L | 7.50 | 1.45 | 97 | 87-115 | | | | 5 |
| Selenium | 0.559 | 0.0250 | mg/L | 0.625 | ND | 89 | 80-120 | | | | 5 |
| Silver | 0.0823 | 0.00250 | mg/L | 0.250 | ND | 33 | 85-116 | | | S | 5 |
| Sodium | 25.3 | 0.125 | mg/L | 7.50 | 18.3 | 93 | 85-117 | | | B | 5 |
| Thallium | 0.581 | 0.0250 | mg/L | 0.625 | ND | 93 | 82-116 | | | | 5 |
| Vanadium | 0.632 | 0.0250 | mg/L | 0.625 | ND | 101 | 86-115 | | | | 5 |
| Zinc | 0.565 | 0.0250 | mg/L | 0.625 | ND | 90 | 83-119 | | | | 5 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Metals by ICP-MS

(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0364 - SW3015*** *(Continued)* | | | | | | | | | | | |
| **(B24J0364-MSD1), MSD** | | | | **Source: O24J0273-03** | *Prepared: 10/07/2024 16:25* | | *Analyzed: 10/14/2024 13:32* | | | | |
| Aluminum | 0.746 | 0.125 | mg/L | 0.625 | 0.0854 | 106 | 84-117 | 2 | 20 | B | 5 |
| Antimony | 0.310 | 0.0250 | mg/L | 0.312 | ND | 99 | 85-117 | 0.7 | 20 | | 5 |
| Arsenic | 0.600 | 0.0250 | mg/L | 0.625 | ND | 96 | 84-116 | 1 | 20 | | 5 |
| Barium | 0.940 | 0.0250 | mg/L | 0.625 | 0.331 | 97 | 86-114 | 2 | 20 | | 5 |
| Beryllium | 0.583 | 0.00250 | mg/L | 0.625 | ND | 93 | 83-121 | 0.7 | 20 | | 5 |
| Cadmium | 0.596 | 0.00250 | mg/L | 0.625 | ND | 95 | 87-115 | 1 | 20 | | 5 |
| Calcium | 146 | 0.125 | mg/L | 7.50 | 135 | 149 | 87-118 | 5 | 20 | S, B | 5 |
| Chromium | 0.601 | 0.0250 | mg/L | 0.625 | ND | 96 | 85-116 | 0.8 | 20 | | 5 |
| Cobalt | 0.605 | 0.0250 | mg/L | 0.625 | ND | 97 | 86-115 | 0.5 | 20 | | 5 |
| Copper | 0.585 | 0.0250 | mg/L | 0.625 | ND | 94 | 85-118 | 0.2 | 20 | | 5 |
| Iron | 8.11 | 0.125 | mg/L | 7.50 | 0.614 | 100 | 87-118 | 2 | 20 | | 5 |
| Lead | 0.580 | 0.0250 | mg/L | 0.625 | ND | 93 | 88-115 | 0.5 | 20 | | 5 |
| Magnesium | 19.5 | 0.125 | mg/L | 7.50 | 11.8 | 102 | 83-118 | 5 | 20 | | 5 |
| Manganese | 0.746 | 0.0250 | mg/L | 0.625 | 0.136 | 98 | 87-115 | 0.4 | 20 | | 5 |
| Nickel | 0.632 | 0.0250 | mg/L | 0.625 | 0.0178 | 98 | 85-117 | 0.8 | 20 | | 5 |
| Potassium | 8.90 | 0.125 | mg/L | 7.50 | 1.45 | 99 | 87-115 | 2 | 20 | | 5 |
| Selenium | 0.548 | 0.0250 | mg/L | 0.625 | ND | 88 | 80-120 | 2 | 20 | | 5 |
| Silver | 0.0774 | 0.00250 | mg/L | 0.250 | ND | 31 | 85-116 | 6 | 20 | S | 5 |
| Sodium | 26.0 | 0.125 | mg/L | 7.50 | 18.3 | 103 | 85-117 | 3 | 20 | B | 5 |
| Thallium | 0.582 | 0.0250 | mg/L | 0.625 | ND | 93 | 82-116 | 0.1 | 20 | | 5 |
| Vanadium | 0.630 | 0.0250 | mg/L | 0.625 | ND | 101 | 86-115 | 0.4 | 20 | | 5 |
| Zinc | 0.559 | 0.0250 | mg/L | 0.625 | ND | 89 | 83-119 | 1 | 20 | | 5 |
| **(B24J0364-PS1), PS** | | | | **Source: O24J0273-03** | *Prepared: 10/07/2024 16:25* | | *Analyzed: 10/14/2024 13:34* | | | | |
| Aluminum | 0.434 | 0.125 | mg/L | 0.312 | 0.0854 | 112 | 80-120 | | | B | 1 |
| Antimony | 0.309 | 0.0250 | mg/L | 0.312 | ND | 99 | 80-120 | | | | 1 |
| Arsenic | 0.310 | 0.0250 | mg/L | 0.312 | ND | 99 | 80-120 | | | | 1 |
| Barium | 0.644 | 0.0250 | mg/L | 0.312 | 0.331 | 100 | 80-120 | | | | 1 |
| Beryllium | 0.148 | 0.00250 | mg/L | 0.156 | ND | 95 | 80-120 | | | | 1 |
| Cadmium | 0.301 | 0.00250 | mg/L | 0.312 | ND | 96 | 80-120 | | | | 1 |
| Calcium | 135 | 0.125 | mg/L | 1.56 | 135 | 3 | 80-120 | | | S, B | 1 |
| Chromium | 0.322 | 0.0250 | mg/L | 0.312 | ND | 103 | 80-120 | | | | 1 |
| Cobalt | 0.314 | 0.0250 | mg/L | 0.312 | ND | 101 | 80-120 | | | | 1 |
| Copper | 0.307 | 0.0250 | mg/L | 0.312 | ND | 98 | 80-120 | | | | 1 |
| Iron | 2.23 | 0.125 | mg/L | 1.56 | 0.614 | 104 | 80-120 | | | | 1 |
| Lead | 0.296 | 0.0250 | mg/L | 0.312 | ND | 95 | 80-120 | | | | 1 |
| Magnesium | 13.4 | 0.125 | mg/L | 1.56 | 11.8 | 100 | 80-120 | | | | 1 |
| Manganese | 0.457 | 0.0250 | mg/L | 0.312 | 0.136 | 102 | 80-120 | | | | 1 |
| Nickel | 0.338 | 0.0250 | mg/L | 0.312 | 0.0178 | 102 | 80-120 | | | | 1 |
| Potassium | 3.15 | 0.125 | mg/L | 1.56 | 1.45 | 109 | 80-120 | | | | 1 |

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## Quality Control
(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Metals by ICP-MS
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0364 - SW3015*** *(Continued)* | | | | | | | | | | | |
| **(B24J0364-PS1), PS** (Continued) | | | | **Source: O24J0273-03** | | | *Prepared: 10/07/2024 16:25* | | *Analyzed: 10/14/2024 13:34* | | |
| Selenium | 0.283 | 0.0250 | mg/L | 0.312 | ND | 90 | 80-120 | | | | 1 |
| Silver | 0.303 | 0.00250 | mg/L | 0.312 | ND | 97 | 80-120 | | | | 1 |
| Sodium | 19.4 | 0.125 | mg/L | 1.56 | 18.3 | 72 | 80-120 | | | S, B | 1 |
| Thallium | 0.300 | 0.0250 | mg/L | 0.312 | ND | 96 | 80-120 | | | | 1 |
| Vanadium | 0.319 | 0.0250 | mg/L | 0.312 | ND | 102 | 80-120 | | | | 1 |
| Zinc | 0.320 | 0.0250 | mg/L | 0.312 | ND | 102 | 80-120 | | | | 1 |
| ***Batch: B24K0400 - SW3015*** | | | | | | | | | | | |
| **(B24K0400-BLK1), BLK** | | | | | | | *Prepared: 11/08/2024 15:41* | | *Analyzed: 11/11/2024 11:55* | | |
| Calcium | <0.0200 | 0.0250 | mg/L | | | | | | | U | 1 |
| Sodium | <0.0200 | 0.0250 | mg/L | | | | | | | U | 1 |
| **(B24K0400-BS1), BS** | | | | | | | *Prepared: 11/08/2024 15:41* | | *Analyzed: 11/11/2024 11:57* | | |
| Aluminum | 0.643 | 0.125 | mg/L | 0.625 | | 103 | 84-117 | | | | 5 |
| Antimony | 0.324 | 0.0250 | mg/L | 0.312 | | 104 | 85-117 | | | | 5 |
| Arsenic | 0.613 | 0.0250 | mg/L | 0.625 | | 98 | 84-116 | | | | 5 |
| Barium | 0.643 | 0.0250 | mg/L | 0.625 | | 103 | 86-114 | | | | 5 |
| Beryllium | 0.631 | 0.00250 | mg/L | 0.625 | | 101 | 83-121 | | | | 5 |
| Cadmium | 0.637 | 0.00250 | mg/L | 0.625 | | 102 | 87-115 | | | | 5 |
| Calcium | 7.67 | 0.125 | mg/L | 7.50 | | 102 | 87-118 | | | | 5 |
| Chromium | 0.631 | 0.0250 | mg/L | 0.625 | | 101 | 85-116 | | | | 5 |
| Cobalt | 0.626 | 0.0250 | mg/L | 0.625 | | 100 | 86-115 | | | | 5 |
| Copper | 0.630 | 0.0250 | mg/L | 0.625 | | 101 | 85-118 | | | | 5 |
| Iron | 7.65 | 0.125 | mg/L | 7.50 | | 102 | 87-118 | | | | 5 |
| Lead | 0.655 | 0.0250 | mg/L | 0.625 | | 105 | 88-115 | | | | 5 |
| Magnesium | 7.77 | 0.125 | mg/L | 7.50 | | 104 | 83-118 | | | | 5 |
| Manganese | 0.635 | 0.0250 | mg/L | 0.625 | | 102 | 87-111 | | | | 5 |
| Nickel | 0.640 | 0.0250 | mg/L | 0.625 | | 102 | 85-117 | | | | 5 |
| Potassium | 7.72 | 0.125 | mg/L | 7.50 | | 103 | 87-115 | | | | 5 |
| Selenium | 0.586 | 0.0250 | mg/L | 0.625 | | 94 | 80-120 | | | | 5 |
| Silver | 0.259 | 0.00250 | mg/L | 0.250 | | 104 | 85-116 | | | | 5 |
| Sodium | 8.31 | 0.125 | mg/L | 7.50 | | 111 | 85-117 | | | | 5 |
| Thallium | 0.653 | 0.0250 | mg/L | 0.625 | | 104 | 82-116 | | | | 5 |
| Vanadium | 0.633 | 0.0250 | mg/L | 0.625 | | 101 | 86-115 | | | | 5 |
| Zinc | 0.608 | 0.0250 | mg/L | 0.625 | | 97 | 83-119 | | | | 5 |
| **(B24K0400-DUP1), Serial Dilution** | | | | **ɔurce: O24J0276-18RX1** | | | *Prepared: 11/08/2024 15:41* | | *Analyzed: 11/11/2024 12:07* | | |
| Aluminum | <0.0500 | 0.125 | mg/L | | ND | | | | 20 | U | 5 |

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## Quality Control
(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

## Metals by ICP-MS
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24K0400 - SW3015*** *(Continued)* | | | | | | | | | | | |
| **(B24K0400-DUP1), Serial Dilution** (Continued) | | | | | **ource: O24J0276-18RX1** | | *Prepared: 11/08/2024 15:41* | | *Analyzed: 11/11/2024 12:07* | | |
| Antimony | <0.0100 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Arsenic | <0.00500 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Barium | <0.00500 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Beryllium | <0.00200 | 0.00250 | mg/L | | ND | | | | 20 | U | 5 |
| Cadmium | <0.00200 | 0.00250 | mg/L | | ND | | | | 20 | U | 5 |
| Calcium | <0.100 | 0.125 | mg/L | | ND | | | | 20 | U | 5 |
| Chromium | <0.0100 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Cobalt | <0.0100 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Copper | <0.0100 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Iron | 0.0637 | 0.125 | mg/L | | 0.0721 | | | 12 | 20 | J | 5 |
| Lead | <0.00500 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Magnesium | <0.0500 | 0.125 | mg/L | | ND | | | | 20 | U | 5 |
| Manganese | <0.0100 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Nickel | <0.0100 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Potassium | <0.100 | 0.125 | mg/L | | ND | | | | 20 | U | 5 |
| Selenium | <0.0100 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Silver | <0.00100 | 0.00250 | mg/L | | ND | | | | 20 | U | 5 |
| Sodium | <0.100 | 0.125 | mg/L | | ND | | | | 20 | U | 5 |
| Thallium | <0.00100 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Vanadium | <0.00500 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| Zinc | <0.0200 | 0.0250 | mg/L | | ND | | | | 20 | U | 5 |
| **(B24K0400-MS1), MS** | | | | | **ource: O24J0276-18RX1** | | *Prepared: 11/08/2024 15:41* | | *Analyzed: 11/11/2024 12:01* | | |
| Aluminum | 0.658 | 0.0250 | mg/L | 0.625 | 0.0217 | 102 | 84-117 | | | | 1 |
| Antimony | 0.303 | 0.00500 | mg/L | 0.312 | 0.000628 | 97 | 85-117 | | | | 1 |
| Arsenic | 0.560 | 0.00500 | mg/L | 0.625 | ND | 90 | 84-116 | | | | 1 |
| Barium | 0.626 | 0.00500 | mg/L | 0.625 | ND | 100 | 86-114 | | | | 1 |
| Beryllium | 0.586 | 0.000500 | mg/L | 0.625 | ND | 94 | 83-121 | | | | 1 |
| Cadmium | 0.574 | 0.000500 | mg/L | 0.625 | ND | 92 | 87-115 | | | | 1 |
| Calcium | 7.62 | 0.0250 | mg/L | 7.50 | 0.0273 | 101 | 87-118 | | | | 1 |
| Chromium | 0.632 | 0.00500 | mg/L | 0.625 | ND | 101 | 85-116 | | | | 1 |
| Cobalt | 0.628 | 0.00500 | mg/L | 0.625 | ND | 100 | 86-115 | | | | 1 |
| Copper | 0.609 | 0.00500 | mg/L | 0.625 | ND | 97 | 85-118 | | | | 1 |
| Iron | 7.81 | 0.0250 | mg/L | 7.50 | 0.0721 | 103 | 87-118 | | | | 1 |
| Lead | 0.657 | 0.00500 | mg/L | 0.625 | ND | 105 | 88-115 | | | | 1 |
| Magnesium | 7.79 | 0.0250 | mg/L | 7.50 | ND | 104 | 83-118 | | | | 1 |
| Manganese | 0.632 | 0.00500 | mg/L | 0.625 | 0.00105 | 101 | 87-115 | | | | 1 |
| Nickel | 0.623 | 0.00500 | mg/L | 0.625 | ND | 100 | 85-117 | | | | 1 |
| Potassium | 7.49 | 0.0250 | mg/L | 7.50 | ND | 100 | 87-115 | | | | 1 |
| Selenium | 0.507 | 0.00500 | mg/L | 0.625 | ND | 81 | 80-120 | | | | 1 |

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## Quality Control
(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Metals by ICP-MS
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24K0400 - SW3015*** *(Continued)* | | | | | | | | | | | |
| **(B24K0400-MS1), MS** (Continued) | | | | **ource: O24J0276-18RX1** | | *Prepared: 11/08/2024 15:41* | | *Analyzed: 11/11/2024 12:01* | | | |
| Silver | 0.243 | 0.000500 | mg/L | 0.250 | ND | 97 | 85-116 | | | | 1 |
| Sodium | 8.31 | 0.0250 | mg/L | 7.50 | ND | 111 | 85-117 | | | | 1 |
| Thallium | 0.652 | 0.00500 | mg/L | 0.625 | ND | 104 | 82-116 | | | | 1 |
| Vanadium | 0.644 | 0.00500 | mg/L | 0.625 | ND | 103 | 86-115 | | | | 1 |
| Zinc | 0.547 | 0.00500 | mg/L | 0.625 | ND | 88 | 83-119 | | | | 1 |
| **(B24K0400-MSD1), MSD** | | | | **ource: O24J0276-18RX1** | | *Prepared: 11/08/2024 15:41* | | *Analyzed: 11/11/2024 12:03* | | | |
| Aluminum | 0.661 | 0.0250 | mg/L | 0.625 | 0.0217 | 102 | 84-117 | 0.4 | 20 | | 1 |
| Antimony | 0.310 | 0.00500 | mg/L | 0.312 | 0.000628 | 99 | 85-117 | 2 | 20 | | 1 |
| Arsenic | 0.562 | 0.00500 | mg/L | 0.625 | ND | 90 | 84-116 | 0.3 | 20 | | 1 |
| Barium | 0.648 | 0.00500 | mg/L | 0.625 | ND | 104 | 86-114 | 3 | 20 | | 1 |
| Beryllium | 0.589 | 0.000500 | mg/L | 0.625 | ND | 94 | 83-121 | 0.5 | 20 | | 1 |
| Cadmium | 0.587 | 0.000500 | mg/L | 0.625 | ND | 94 | 87-115 | 2 | 20 | | 1 |
| Calcium | 7.62 | 0.0250 | mg/L | 7.50 | 0.0273 | 101 | 87-118 | 0.09 | 20 | | 1 |
| Chromium | 0.640 | 0.00500 | mg/L | 0.625 | ND | 102 | 85-116 | 1 | 20 | | 1 |
| Cobalt | 0.626 | 0.00500 | mg/L | 0.625 | ND | 100 | 86-115 | 0.3 | 20 | | 1 |
| Copper | 0.609 | 0.00500 | mg/L | 0.625 | ND | 97 | 85-118 | 0.02 | 20 | | 1 |
| Iron | 7.93 | 0.0250 | mg/L | 7.50 | 0.0721 | 105 | 87-118 | 2 | 20 | | 1 |
| Lead | 0.654 | 0.00500 | mg/L | 0.625 | ND | 105 | 88-115 | 0.4 | 20 | | 1 |
| Magnesium | 7.79 | 0.0250 | mg/L | 7.50 | ND | 104 | 83-118 | 0.01 | 20 | | 1 |
| Manganese | 0.637 | 0.00500 | mg/L | 0.625 | 0.00105 | 102 | 87-115 | 0.8 | 20 | | 1 |
| Nickel | 0.625 | 0.00500 | mg/L | 0.625 | ND | 100 | 85-117 | 0.3 | 20 | | 1 |
| Potassium | 7.42 | 0.0250 | mg/L | 7.50 | ND | 99 | 87-115 | 1 | 20 | | 1 |
| Selenium | 0.508 | 0.00500 | mg/L | 0.625 | ND | 81 | 80-120 | 0.3 | 20 | | 1 |
| Silver | 0.247 | 0.000500 | mg/L | 0.250 | ND | 99 | 85-116 | 2 | 20 | | 1 |
| Sodium | 8.52 | 0.0250 | mg/L | 7.50 | ND | 114 | 85-117 | 3 | 20 | | 1 |
| Thallium | 0.657 | 0.00500 | mg/L | 0.625 | ND | 105 | 82-116 | 0.8 | 20 | | 1 |
| Vanadium | 0.644 | 0.00500 | mg/L | 0.625 | ND | 103 | 86-115 | 0.01 | 20 | | 1 |
| Zinc | 0.550 | 0.00500 | mg/L | 0.625 | ND | 88 | 83-119 | 0.5 | 20 | | 1 |
| **(B24K0400-PS1), PS** | | | | **ource: O24J0276-18RX1** | | *Prepared: 11/08/2024 15:41* | | *Analyzed: 11/11/2024 12:05* | | | |
| Aluminum | 0.146 | 0.0500 | mg/L | 0.125 | 0.0217 | 99 | 80-120 | | | | 1 |
| Antimony | 0.118 | 0.0100 | mg/L | 0.125 | ND | 94 | 80-120 | | | | 1 |
| Arsenic | 0.113 | 0.0100 | mg/L | 0.125 | ND | 90 | 80-120 | | | | 1 |
| Barium | 0.125 | 0.0100 | mg/L | 0.125 | ND | 100 | 80-120 | | | | 1 |
| Beryllium | 0.0575 | 0.00100 | mg/L | 0.0625 | ND | 92 | 80-120 | | | | 1 |
| Cadmium | 0.116 | 0.00100 | mg/L | 0.125 | ND | 93 | 80-120 | | | | 1 |
| Calcium | 0.628 | 0.0500 | mg/L | 0.625 | 0.0273 | 96 | 80-120 | | | | 1 |
| Chromium | 0.125 | 0.0100 | mg/L | 0.125 | ND | 100 | 80-120 | | | | 1 |

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## Quality Control
(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Metals by ICP-MS
(Continued)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24K0400 - SW3015*** *(Continued)* | | | | | | | | | | | |
| **(B24K0400-PS1), PS** (Continued) | | | **ource: O24J0276-18RX1** | | *Prepared: 11/08/2024 15:41* | | *Analyzed: 11/11/2024 12:05* | | | | |
| Cobalt | 0.122 | 0.0100 | mg/L | 0.125 | ND | 98 | 80-120 | | | | 1 |
| Copper | 0.122 | 0.0100 | mg/L | 0.125 | ND | 98 | 80-120 | | | | 1 |
| Iron | 0.686 | 0.0500 | mg/L | 0.625 | 0.0721 | 98 | 80-120 | | | | 1 |
| Lead | 0.122 | 0.0100 | mg/L | 0.125 | ND | 98 | 80-120 | | | | 1 |
| Magnesium | 0.626 | 0.0500 | mg/L | 0.625 | ND | 100 | 80-120 | | | | 1 |
| Manganese | 0.126 | 0.0100 | mg/L | 0.125 | 0.00105 | 100 | 80-120 | | | | 1 |
| Nickel | 0.122 | 0.0100 | mg/L | 0.125 | ND | 98 | 80-120 | | | | 1 |
| Potassium | 0.625 | 0.0500 | mg/L | 0.625 | ND | 100 | 80-120 | | | | 1 |
| Selenium | 0.105 | 0.0100 | mg/L | 0.125 | ND | 84 | 80-120 | | | | 1 |
| Silver | 0.122 | 0.00100 | mg/L | 0.125 | ND | 97 | 80-120 | | | | 1 |
| Sodium | 0.636 | 0.0500 | mg/L | 0.625 | ND | 102 | 80-120 | | | | 1 |
| Thallium | 0.124 | 0.0100 | mg/L | 0.125 | ND | 99 | 80-120 | | | | 1 |
| Vanadium | 0.121 | 0.0100 | mg/L | 0.125 | ND | 97 | 80-120 | | | | 1 |
| Zinc | 0.113 | 0.0100 | mg/L | 0.125 | ND | 91 | 80-120 | | | | 1 |
| ***Batch: B25C0797 - SW3015*** | | | | | | | | | | | |
| **(B25C0797-BLK1), BLK** | | | | | *Prepared: 03/14/2025 13:25* | | *Analyzed: 03/14/2025 19:20* | | | | |
| Chromium | <0.0100 | 0.0250 | mg/L | | | | | | | U | 5 |
| Lead | <0.00500 | 0.00500 | mg/L | | | | | | | U | 5 |
| **(B25C0797-BS1RS1), BS** | | | | | *Prepared: 03/14/2025 13:25* | | *Analyzed: 03/16/2025 01:47* | | | | |
| Chromium | 0.698 | 0.0250 | mg/L | 0.625 | | 112 | 80-120 | | | | 5 |
| Lead | 0.707 | 0.00500 | mg/L | 0.625 | | 113 | 80-120 | | | | 5 |
| **(B25C0797-LBK1), LBK** | | | | | *Prepared: 03/14/2025 13:30* | | *Analyzed: 03/14/2025 19:45* | | | | |
| Chromium | <0.0100 | 0.0250 | mg/L | | | | | | | U | 5 |
| Lead | <0.00500 | 0.00500 | mg/L | | | | | | | U | 5 |
| **(B25C0797-MS1), MS** | | | **Source: O25B0629-03** | | *Prepared: 03/14/2025 13:25* | | *Analyzed: 03/14/2025 19:58* | | | | |
| Chromium | 0.648 | 0.0250 | mg/L | 0.625 | ND | 104 | 75-125 | | | | 5 |
| Lead | 0.649 | 0.00500 | mg/L | 0.625 | 0.0460 | 96 | 75-125 | | | | 5 |
| **(B25C0797-MSD1), MSD** | | | **Source: O25B0629-03** | | *Prepared: 03/14/2025 13:25* | | *Analyzed: 03/14/2025 20:02* | | | | |
| Chromium | 0.639 | 0.0250 | mg/L | 0.625 | ND | 102 | 75-125 | 1 | 20 | | 5 |
| Lead | 0.646 | 0.00500 | mg/L | 0.625 | 0.0460 | 96 | 75-125 | 0.4 | 20 | | 5 |

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## Quality Control

(Continued)

**Client:** Lynn Lutz
**Project:** Memphis, TN DFW Soil Sampling
DDMT Env. Restoration, W9127823D0048
**SDG:** O24J0276

**Report Date:** 03/21/2025
**Matrix:** Water

### Mercury by CVAA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual | DF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Batch: B24J0965*** | | | | | | | | | | | |
| **(B24J0965-BLK1), Blank** | | | | *Prepared: 10/16/2024 15:18* | | | *Analyzed: 10/16/2024 18:59* | | | | |
| Mercury | <0.00025 | 0.00040 | mg/L | | | | | | | U | 1 |
| **(B24J0965-BS1), LCS** | | | | *Prepared: 10/16/2024 15:18* | | | *Analyzed: 10/16/2024 19:02* | | | | |
| Mercury | 0.00481 | 0.00040 | mg/L | 0.00500 | | 96 | 88-112 | | | | 1 |
| **(B24J0965-MRL1), MRL Check** | | | | *Prepared: 10/16/2024 15:19* | | | *Analyzed: 10/16/2024 19:04* | | | | |
| Mercury | 0.00019 | 0.00040 | mg/L | 0.000200 | | 95 | 70-130 | | | J | 1 |
| **(B24J0965-MS1), Matrix Spike** | | **Source: O24J0551-01** | | *Prepared: 10/16/2024 15:18* | | | *Analyzed: 10/16/2024 19:07* | | | | |
| Mercury | 0.00210 | 0.00040 | mg/L | 0.00200 | ND | 105 | 75-125 | | | | 1 |
| **(B24J0965-MS2), Matrix Spike** | | **Source: O24J0274-04** | | *Prepared: 10/16/2024 15:18* | | | *Analyzed: 10/16/2024 19:09* | | | | |
| Mercury | 0.00215 | 0.00040 | mg/L | 0.00200 | ND | 108 | 75-125 | | | | 1 |
| **(B24J0965-MSD1), Matrix Spike Dup** | | **Source: O24J0551-01** | | *Prepared: 10/16/2024 15:18* | | | *Analyzed: 10/16/2024 19:12* | | | | |
| Mercury | 0.00207 | 0.00040 | mg/L | 0.00200 | ND | 104 | 75-125 | 1 | 20 | | 1 |
| **(B24J0965-MSD2), Matrix Spike Dup** | | **Source: O24J0274-04** | | *Prepared: 10/16/2024 15:18* | | | *Analyzed: 10/16/2024 19:14* | | | | |
| Mercury | 0.00203 | 0.00040 | mg/L | 0.00200 | ND | 102 | 75-125 | 6 | 20 | | 1 |

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## Uncertified Analyses

Sterling Labs O'Hare location does not hold certification for the following analytes under the program listed on the cover page of this report.

| Analyte | CAS # |
|---|---|
| **SM2540G** | |
| Total Solids | Moist |
| **SW8260B** | |
| No TICs found | |
| No TICs found | |
| **SW8260D** | |
| Ethyl ether | 60-29-7 |
| 1,2-Dichloroethene, Total | 540-59-0 |
| 4-Methyl-2-pentanone | 108-10-1 |

sterling labs - O'Hare Location
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## Qualifiers and Definitions

| Item | Description |
|---|---|
| 2-CVE | The sample was preserved with HCl according to Method requirements. Acidification is inappropriate for 2-Chloroethyl vinyl ether as the analyte decomposes in acidic conditions. |
| B | Analyte was present in the method blank. |
| D | Data reported from a dilution |
| E | Reported concentrations are estimated values as the result exceeded the calibration range. |
| H | Sample prepared and/ or analyzed past recommended holdtime. |
| J | The reported result is an estimated value. |
| J1 | The sample was utilized for MS/MSD or Duplicate purposes. For this compound, the recovery and/or RPD fell outside control criteria. |
| N | Tentatively Identified Compound |
| P | The quality control sample %RPD is above the laboratory control limit. |
| Q | One or more quality control results were outside of the acceptance limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery). |
| S | The quality control sample recovery is outside of the laboratory control limits. |
| S1 | The percent recovery is above the limits (e.g. LCS recovery or surrogate spike recovery), but the analyte was not detected in the sample. Data is acceptable. |
| U | Analyte included in the analysis, but not detected |
| X | Sample was acidified as a preservative that breaks down 2-CVE. |
| %Rec | Percent Recovery |

# Chain of Custody Record

O24J0276
PM: Olga Karplyuk
HDR

**Regulatory Program:** CERCLA

| Client Contact | Project Manager: Clayton Mokri | Site Contact: Clayton Mokri | Date: 10/2/24 | COC No: |
|---|---|---|---|---|
| HDR EOC | Tel/Fax: 530-902-7106 | Lab Contact: Olga Karplyuk | Carrier: FedEx | 1 of 2 COCs |
| 369 Inverness Parkway, Suite 325 | Analysis Turnaround Time | | | Sampler: CM |
| Englewood CO 80112 | ☑ CALENDAR DAYS ☐ WORKING DAYS | | | For Lab Use Only: |
| (303) 754-4266 Phone | TAT if different from Below _____ | | | Walk-in Client: -- |
| (720) 633-2380 FAX | ☑ 2 weeks | | | Lab Sampling: -- |
| Project Name: DDMT Env. Restoration | ☐ 1 week | | | |
| Site: DDMT | ☐ 2 days | | | Job / SDG No.: -- |
| P O # 1000300002550 | ☐ 1 day | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Perform MS / MSD (Y / N) | VOCs (SW8260B) + 20 TICs | SVOCs (SW8270D) | PAHs (SW8270D-SIM) | Pesticides (SW8081A) | PCBs (SW8082A) | Metals TAL (SW6010C/6020A/7471A) | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SB-110-0-DFW | 10/1/2024 | 8:02 | G | S | 5 | N | X | X | X | X | X | X | 01 |
| SB-110-8-DFW | 10/1/2024 | 8:59 | G | S | 5 | N | X | X | X | X | X | X | 02 |
| SB-110-17-DFW | 10/1/2024 | 9:20 | G | S | 5 | N | X | X | X | X | X | X | 03 |
| SB-110-23-DFW | 10/1/2024 | 9:43 | G | S | 5 | N | X | X | X | X | X | X | 04 |
| DUP-2-DFW | 10/1/2024 | 14:58 | G | S | 4 | N | X | X | X | X | X | X | 05 |
| SB-110-32-DFW | 10/1/2024 | 9:58 | G | S | 5 | N | X | X | X | X | X | X | 06 |
| SB-108-0-DFW | 10/1/2024 | 11:07 | G | S | 5 | N | X | X | X | X | X | X | 07 |
| SB-108-7-DFW | 10/1/2024 | 11:34 | G | S | 5 | N | X | X | X | X | X | X | 08 |
| SB-108-15-DFW | 10/1/2024 | 11:53 | G | S | 5 | N | X | X | X | X | X | X | 09 |
| SB-108-25-DFW | 10/1/2024 | 12:18 | G | S | 5 | N | X | X | X | X | X | X | 10 |
| SB-108-32-DFW | 10/1/2024 | 13:19 | G | S | 12 | Y | X | X | X | X | X | X | 11 |
| SB-109-0-DFW | 10/1/2024 | 14:19 | G | S | 4 | N | X | X | X | X | X | X | 12 |
| DUP-1-DFW | 10/1/2024 | 11:08 | G | S | 4 | N | X | X | X | X | X | X | 13 |
| SB-109-6-DFW | 10/1/2024 | 14:57 | G | S | 4 | N | X | X | X | X | X | X | 14 |
| SB-109-17-DFW | 10/1/2024 | 15:27 | G | S | 4 | N | X | X | X | X | X | X | 15 |
| SB-109-25-DFW | 10/1/2024 | 15:45 | G | S | 4 | N | X | X | X | X | X | X | 16 |
| SB-109-31-DFW | 10/1/2024 | 16:10 | G | S | 4 | N | X | X | X | X | X | X | 17 |

**Possible Hazard Identification:**
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable

**Sample Disposal**

☐ Return to Client ☑ Disposal by Lab

**Special Instructions/QC Requirements & Comments:** **Provide metals results in data package separate from dioxins/furans**

2,3,1,7

| Custody Seals Intact: | Custody Seal No.: | | Cooler Temp. (°C): Obs'd: 2.1, 3.2 Corr'd: _____ | | Therm ID No.: Fluke Pool Pro 4 |
|---|---|---|---|---|---|
| Relinquished by: | Company: HDR | Date/Time: 10/2/1720 | Received by: | Company: Sterling Labs | Date/Time: 10/03/2024 1035 |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

Table of Contents

# Chain of Custody Record

**Regulatory Program:** CERCLA

| Client Contact | Project Manager: Clayton Mokri | Site Contact: Clayton Mokri | Date: 10/2/24 | COC No: |
|---|---|---|---|---|
| HDR EOC | Tel/Fax: 530-902-7106 | Lab Contact: Olga Karplyuk | Carrier: FedEx | 2 of 2 COCs |
| 369 Inverness Parkway, Suite 325 | **Analysis Turnaround Time** | | | Sampler: CM |
| Englewood CO 80112 | ☑ CALENDAR DAYS ☐ WORKING DAYS | | | **For Lab Use Only:** |
| (303) 754-4266 Phone | TAT if different from Below _____ | | | Walk-in Client: -- |
| (720) 633-2380 FAX | ☑ 2 weeks | | | Lab Sampling: -- |
| Project Name: DDMT Env. Restoration | ☐ 1 week | | | |
| Site: DDMT | ☐ 2 days | | | Job / SDG No.: -- |
| P O # 1000300002550 | ☐ 1 day | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Perform MS / MSD (Y / N) | VOCs (SW8260B) + 20 TICs | SVOCs (SW8270D) | PAHs (SW8270D-SIM) | Pesticides (SW8081A) | PCBs (SW8082A) | Metals TAL (SW6010C/6020A/7471A) | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RB-1-DFW | 10/1/2024 | 17:07 | G | W | 10 | N | X | X | X | X | X | X | 18 |
| TB-1-DFW | 10/1/2024 | 7:00 | G | W | 3 | N | X | | | | | | 19 |

**Possible Hazard Identification:**
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non- ☐ Flammable

**Sample Disposal**

☐ Return to Client ☑ Disposal by Lab

**Special Instructions/QC Requirements & Comments:** **Provide metals results in data package separate from dioxins/furans**

| Custody Seals Intact: | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 2.9, 5.2 (23, 1.7) Corr'd: _____ | Therm ID No.: Fluke Pool Probe |
|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: | Company: MTR | Date/Time: 10/2 17 20 | Received by: | Company: Sterling Labs | Date/Time: 10/03/2024 1035 |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |



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# Sample Receipt Checklist

**Work Order: O24J0276**

**Printed: 10/3/2024 1:15:06PM**

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling

**SDG:** O24J027€
**Date Due:** Thursday, October 24, 2024

**Received By:** Agnieszka B. Zabawa
**Logged In By:** Agnieszka B. Zabawa

**Date Received:** 10/3/2024 10:35:00AM
**Date Logged In:** 10/3/2024 11:30:39AM

Cooler Name: Cooler 1

How were samples received: FedEx

Cooler temperature at of below 6 degrees Celsius: Yes

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: Yes

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: Yes Intact? Yes

Volatile water vials received: No

**Sample Receipt Comments**

Work Order: O24J0276

The samples were received on 10/3/2024 10:35:00 AM. The temperature of the cooler(s) at receipt was:

| Cooler: | Temp C |
|---|---|
| Cooler 1 | 2.9 |
| Cooler 2 | 3.2 |
| Cooler 3 | 2.3 |
| Cooler 4 | 1.7 |

Sample 10 D (SB-108-25-DFW) & 11 H (SB-108-32-DFW) arrived with broken lids.

Samples going out of hold time within 24 hours:

Reviewed By: AKP Date: 10-3-24

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# Sample Receipt Checklist

**Work Order: O24J0276**

**Printed: 10/3/2024 1:15:06PM**

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling

**SDG:** O24J027(
**Date Due:** Thursday, October 24, 2024

**Received By:** Agnieszka B. Zabawa
**Logged In By:** Agnieszka B. Zabawa

**Date Received:** 10/3/2024 10:35:00AM
**Date Logged In:** 10/3/2024 11:30:39AM

Cooler Name: Cooler 2

How were samples received: FedEx

Cooler temperature at of below 6 degrees Celsius: Yes

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: Yes

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: Yes Intact? Yes

Volatile water vials received: No

Samples going out of hold time within 24 hours:

_____

_____

_____

_____

**Sample Receipt Comments**

Work Order: O24J0276

The samples were received on 10/3/2024 10:35:00 AM. The temperature of the cooler(s) at receipt was:

| Cooler: | Temp C |
|---|---|
| Cooler 1 | 2.9 |
| Cooler 2 | 3.2 |
| Cooler 3 | 2.3 |
| Cooler 4 | 1.7 |

Sample 10 D (SB-108-25-DFW) & 11 H (SB-108-32-DFW) arrived with broken lids.

AKP 10-3-24

Reviewed By: Date:

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# Sample Receipt Checklist

**Work Order: O24J0276**

**Printed: 10/3/2024 1:16:48PM**

**Client:** HDR
**Project:** Memphis, TN DFW Soil Sampling

**SDG:** O24J027€
**Date Due:** Thursday, October 24, 2024

**Received By:** Agnieszka B. Zabawa
**Logged In By:** Agnieszka B. Zabawa

**Date Received:** 10/3/2024 10:35:00AM
**Date Logged In:** 10/3/2024 11:30:39AM

Cooler Name: Cooler 3

How were samples received: FedEx

Cooler temperature at of below 6 degrees Celsius: Yes

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: Yes

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: Yes

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: Yes Intact? Yes

Volatile water vials received: Yes

Vials contain larger than pea sized aire bubbles: No

Samples going out of hold time within 24 hours:

_____

_____

_____

_____

**Sample Receipt Comments**

Work Order: O24J0276

The samples were received on 10/3/2024 10:35:00 AM. The temperature of the cooler(s) at receipt was:

| Cooler: | Temp C |
|---|---|
| Cooler 1 | 2.9 |
| Cooler 2 | 3.2 |
| Cooler 3 | 2.3 |
| Cooler 4 | 1.7 |

Sample 10 D (SB-108-25-DFW) & 11 H (SB-108-32-DFW) arrived with broken lids.

Reviewed By: _____ Date: 10-3-24

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# Sample Receipt Checklist

**Work Order: O24J0276**

**Printed: 10/3/2024 1:15:06PM**

| | |
|---|---|
| **Client:** HDR | **SDG:** O24J027€ |
| **Project:** Memphis, TN DFW Soil Sampling | **Date Due:** Thursday, October 24, 2024 |

**Received By:** Agnieszka B. Zabawa
**Logged In By:** Agnieszka B. Zabawa

**Date Received:** 10/3/2024 10:35:00AM
**Date Logged In:** 10/3/2024 11:30:39AM

Cooler Name: Cooler 4

How were samples received: FedEx

Cooler temperature at of below 6 degrees Celsius: Yes

Chain of Custody present and properly completed : Yes

Turnaround Time is indicated and specified: Yes

Chain of Custody agrees with sample labels: Yes

Samples received within hold time: Yes

Proper sample containers received intact: No

Sufficient sample volume: Yes

Containers properly preserved: Yes

Custody seals present: Yes Intact? Yes

Volatile water vials received: No

Samples going out of hold time within 24 hours:

_____

_____

_____

_____

**Sample Receipt Comments**

Work Order: O24J0276

The samples were received on 10/3/2024 10:35:00 AM. The temperature of the cooler(s) at receipt was:

| Cooler: | Temp C |
|---|---|
| Cooler 1 | 2.9 |
| Cooler 2 | 3.2 |
| Cooler 3 | 2.3 |
| Cooler 4 | 1.7 |

Sample 10 D (SB-108-25-DFW) & 11 H (SB-108-32-DFW) arrived with broken lids.

Reviewed By: _____ Date: 10-3-24

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Cooler 1
t = 2.9







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Cooler 2

t=2.3







Table of Contents

Cooler 3

t=3.2

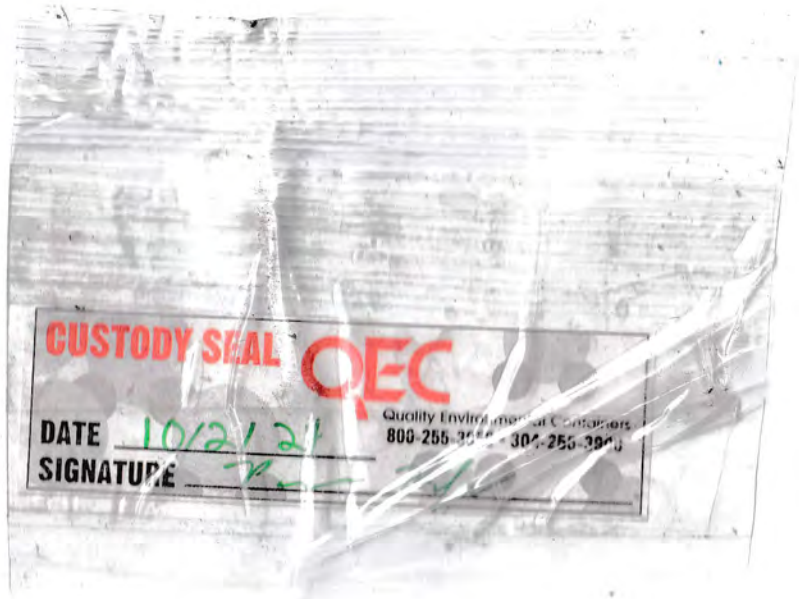






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Cooler 4

t=1.7



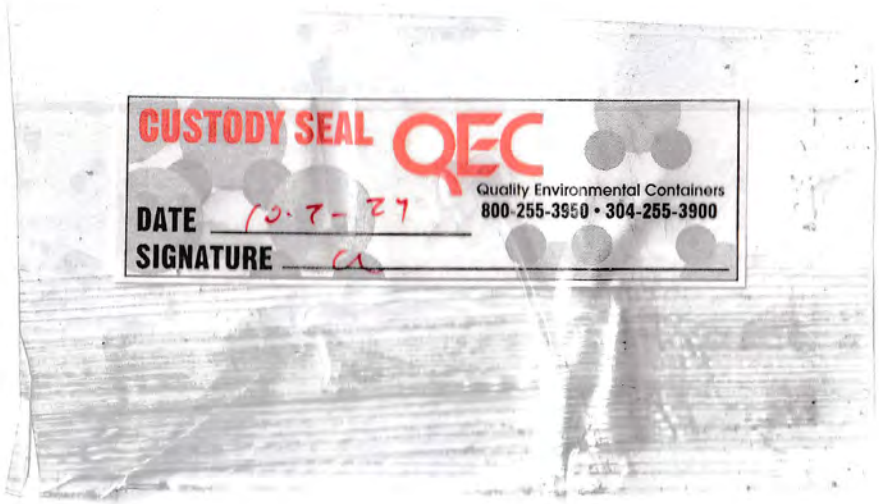




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***ANALYTICAL RESULTS FOR:***

**Clayton Mokri**
**HDR, Inc**
**9781 S Meridian Blvd**
**Suite 400**
**Englewood, CO 80112**

| | |
|---|---|
| PROJECT SITE: | DDMT-DFW, Memphis, TN |
| PROJECT #: | 1000300002740 |
| DOD Contract #: | W9127820D0024 |
| SDG: | 194024 |
| PREPARED: | April 23, 2025 |
| DOCUMENT PAGES: | 1922 |

*The data contained in the following report have been reviewed by the appropriate CT Laboratories LLC's staff members. In addition, CT Laboratories LLC certifies that to the best of our knowledge that the analyses reported herein are true, complete and correct within the limits of the methods employed and that they follow the applicable requirements as specified by the project plan, state-specific, NELAC or DOD QSM requirements. The estimated uncertainty of measurement is only available upon request. The reported results relate only to the tested samples. This report shall not be reproduced, except in full, without written approval of CT Laboratories LLC.*

Reviewed by: _____

CT Laboratories LLC, Project Manager

Certifications: IL (NELAP 200073), KS (NELAP E-10368), WI (157066030), DOD ELAP QSM5.4 (PJLA Testing Accreditation # 78929), VA (NELAP 460203), LA (primary NELAP 115843), ISO/IEC 17025:2017 Accredited (PJLA Testing Accreditation # 78929)

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# *Case Narrative*

**Client:** HDR Inc., Englewood, CO
**Project:** DDMT-DFW, Memphis, TN
**Sample Receipt Date(s):** 04/04/2025
**SDG #: 194024**

Seventeen solid and one aqueous (rinse blank) samples were analyzed for a variety on analyses, including TCLP metals (Cr, Pb), SVOC's and VOCs + TICs. A trip blank was also included for VOC analysis. The assigned sample ID numbers, date sampled, and date received are indicated in the attached Project Summary. The samples were received intact and at a temperature within method specified acceptance limits. Any exceptions are noted below. The analyses were performed following QSM 5.4 requirements.

Manual integrations may have been performed on the data provided with this package. If manual integrations were performed, a Reason # (s) was included on the raw data that corresponds to the "Index Key for Manual Integration Rationale." The raw data includes a "Before" and "After" manual integration illustration. The manual integrations were initialed and dated by the analyst, as well as, by the person reviewing the data.

**Sample Analysis and Quality Control**

***Volatile Analysis:***

The samples were analyzed using US EPA Method 8260C (VOCs). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

Detailed reports were provided for the 8260 data for all detected compounds, as well as, for those compounds manually integrated (if applicable). Compounds not reported on the form 1's were either not detected or did not meet identification criteria so they were reported as non-detects.

Continuing Calibration Verification (CCV) compounds are calibrated using either response factor (with acceptance criteria <20%deviation, or <50% deviation for CCVF) or quadratic regression (with acceptance criteria <20% drift, or <50% drift for CCVF). Non-conformances were qualified with a "Z" flag unless otherwise noted. Response factors are provided as guidance only and are not intended to be a requirement. Data is not qualified based on RRF values.

Some samples may have been analyzed and/or reanalyzed diluted to obtain results for all target compounds within the calibration range of the instrument. Over-range compounds for low-level soil analysis were re-analyzed from methanol extracts because dilution is not possible by low-level soil purge procedure. In the case of this project, to avoid potential instrument contamination, methanol extracts were analyzed on all samples.

**VOC (8260C) Solid Methanol-Extract Analyses**

Analytical Run # 290598

CCV1 and CCV2 had low recoveries outside of specified criteria for tetrahydrofuran. CCVF2 had a low recovery outside of specified criteria for vinyl acetate and high recoveries bromomethane and chloroethane. The associated data were qualified with a "Z" flag for these analytes.

Sample #'s 1568822,1568823, 1588828 (+ the matrix spikes), 1568830 & 1568846 had low Internal Standard (ISTD) responses. These sample were reanalyzed.

The Matrix Spike (MS), performed on sample # 1568828, had a high recovery for trichlorotrifluoromethane and low recoveries 1,1-dichloroethene, 1,2,3-trichloropropane, bromobenzene, methylene chloride and naphthalene. The parent sample results for these compounds were qualified with "M" flags. The MS/MSD had RPD exceedance for 16 analytes. The parent sample results for these analytes were qualified with "Y" flags.

The Matrix Spike had a low surrogate recovery for bromofluorobenzene and the surrogate result was qualified with an "S" flag.

Sample # 1568821 had more than a 1:1 ratio of soil to methanol. The low-level bisulfite-preserved vial also had greater than a 1:1 ratio of soil to water. This sample could not be analyzed by the low-level purge technique due to too much soil in the vials.

**VOC (8260C) Solid Low-level Analyses**

Analytical Run # 290584 / 190583 / 290582

The Matrix Spike (MS) and Matrix Spike Duplicate (MSD), performed on sample # 1568828, had high recoveries for 19 and 21 analytes, respectively, and low recoveries for trichloroethene and tetrachloroethene. The parent sample results for these compounds were qualified with "M" flags. The MS/MSD had RPD exceedance for five analytes. The parent sample results for these analytes were qualified with "Y" flags.

The Matrix Spike had a low surrogate recovery for bromofluorobenzene and the surrogate result was qualified with an "S" flag.

Sample # 1568821 could not be analyzed by the low-level purge technique due to too much soil in the vials.

The Tentatively Identified Compounds (TICs) were generated from low-level analyses except for sample #1568821.

**VOC (8260C) Aqueous Low-level Analyses**

Chloromethane was detected in the Initial Calibration Blank (ICB) for calibration curve LW041325.

Analytical Run # 290576 / 290575 / 290574

All analytical results for this run met the method/project specified quality control criteria.

***Semi-Volatile Analysis:***

The samples were analyzed using US EPA Method 8270D (SVOCs). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Surrogate Recovery Data
Matrix Spike/Matrix Spike Duplicate Recovery Data
Laboratory Control Spike Data
Method Blank Data
Initial Calibration Summary
Calibration Check Summary
Analysis Run Log
Prep Log
Chromatograms

All analysis results met the method specified quality control criteria with the following exceptions:

Detailed reports were provided for the 8270 data for all detected compounds, as well as, for those compounds manually integrated (if applicable). Compounds not reported on the form 1's were either not detected or did not meet identification criteria so they were reported as non-detects.

**SVOC (8270D) Solid Analyses**

Analytical Run # 290730

Ending CCV, 2CCV406, had low responses for hexachlorocyclopentadiene, benzidine, and benzo(g,h,i)perylene. These analytes were qualified with a "Z" flag in the associated samples. Initial CCV, 2CCV407, had high responses for benzoic acid, 2,4-dinitrophenol, pentachlorophenol, and 3,3'-dichlorobenzidine. These four analytes were not reported from the dilutions associated with this CCV. Initial CCV, 2CCV409, had two analytes with high responses (benzoic acid, pentachlorophenol) and four analytes with low responses (benzidine, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene). These analytes were not reported from the dilutions associated with this CCV. Ending CCV, 2CCV410, had a low response benzo(g,h,i)perylene. This analyte was not reported from the dilutions associated with this CCV.

The Laboratory Control Spike (LCS) had a low recovery for hexachlorocyclopentadiene. This analyte was qualified with a "Q" flag in the associated samples. The analyte is a known problematic compound subject to photo and thermal degradation.

The Matrix Spike (MS) and Matrix Spike Duplicate (MSD), performed on sample # 1568828, had low recoveries for 17 and 14 analytes, respectively. The parent results for these analytes were qualified with "M" flags. The MS/MSD had RPD exceedances for 20 analytes. The parent results for these analytes were qualified with "Y" flags.

Undiluted sample #'s 1568822 and 1568846 had low areas of the sixth internal standard, perylene-d12. These samples were reanalyzed at 1:10 and 1:5 dilutions, respectively. The internal standard areas for both

dilutions were acceptable and the analytes associated with the sixth internal standard were reported from these dilutions. Sample # 1568846 was diluted due to a low internal standard area and did not have any analyte recoveries greater than the RL. These results were qualified with a "V" flag.

Sample # 1568822 had low recoveries for four surrogates. Sample # 1568834 had low recoveries for three surrogates. Surrogate results with low recoveries were qualified with an "S" flag.

**SVOC (8270D) Aqueous Analyses**

Analytical Run # 290647

Di-n-butylphthalate was detected in the Method Blank (MB) at a concentration greater than the detection limit but less than one-half the reporting limit. Sample results for this analyte that were less than ten times the MB results were qualified with a "B" flag

The LCS/LCSD had RPD exceedances for benzidine, benzoic acid, and pyridine. These analytes were qualified with a "Y" flag in the associated sample results.

***Metals Analysis:***

The samples were analyzed using US EPA Method 6010C (ICP metals). All samples were analyzed within the holding time. The following summaries of quality control procedures are included:

Initial and Continuing Calibration Verification
Blanks Summary
ICP Interference Check Data
Spike Sample Recovery
Duplicates Data
Laboratory Control Sample Data
Analysis Run Log

All analysis results met the method specified quality control criteria with the following exceptions:

Continuing Calibration Verification (CCV) standards were analyzed at two levels (CCV1 & CCV2) with potentially differing wavelengths. Data associated with CCV's were evaluated based on the concentration of the element in the samples and compared to the appropriate CCV level/wavelength.

**ICP (6010C) Metals Aqueous (TCLP) Analyses**

Analytical Run # 290687

The samples were only analyzed for chromium and lead.

Chromium and lead were detected in the Method Blank (MB) at concentrations greater than the detection limit but less than one-half the reporting limit. Sample results for these analytes that were less than ten times the MB results were qualified with a "B" flag

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## Data Qualifiers

| Code | Description |
|---|---|
| A | Analyte averaged calibration criteria within acceptable limits. |
| B | Analyte detected in associated Method Blank. |
| C | Toxicity present in BOD sample. |
| D | Diluted Out. |
| E | Safe, No Total Coliform detected. |
| F | Unsafe, Total Coliform detected, no E. Coli detected. |
| G | Unsafe, Total Coliform detected and E. Coli detected. |
| H | Holding time exceeded. |
| J | Estimated value. |
| L | Significant peaks were detected outside the chromatographic window. |
| M | Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits. |
| N | Insufficient BOD oxygen depletion. |
| O | Complete BOD oxygen depletion. |
| P | Concentration of analyte differs more than 40% between primary and confirmation analysis. |
| Q | Laboratory Control Sample outside acceptance limits. |
| R | See Narrative at end of report. |
| S | Surrogate standard recovery outside acceptance limits due to apparent matrix effects. |
| T | Sample received with improper preservation or temperature. |
| U | Analyte concentration was not above the detection level. |
| V | Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference. |
| W | Sample amount received was below program minimum. |
| X | Analyte exceeded calibration range. |
| Y | Replicate/Duplicate precision outside acceptance limits. |
| Z | Calibration criteria exceeded. |

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## MANUAL INTEGRATION REASON CODES

CTLaboratories has identified four general cases with valid reasons supporting the use of manual integration techniques. These codes are used on chromatograms in this data package to document the reasons for manual integrations per CTLaboratories' SOP SS-10 current revision.

**#1**: **Data system failed to select the correct peak or missed the peak entirely.**
In some cases the chromatography system selects and integrates the "wrong peak". In this case the analyst must correct the selection and force the system to integrate the proper peak. In other instances the system may miss the peak completely. In this case the analyst manually integrated the peak

**#2**: **Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak.**
This phenomenon is common at low concentrations where the signal to noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low or high area counts for the target compound.

**#3: Improperly Integrated Isomers and/or coeluting compounds.**
For when the system fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations may be inaccurate, and they must be corrected by manual integration. Prime examples are compounds that are unresolved and integrated improperly when present at low concentrations in standards or samples.

**#4: System Established Incorrect Baseline.**
There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and may be corrected via manual procedures.

**#5: Miscellaneous.**
Some situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the group supervisor. If the form of manual integration is not clearly covered by these four cases, then review and approval by the group supervisor or the *QA/QC* Supervisor will be required.

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# Sample Delivery Group

## 194024

HDR, INC
CLAYTON MOKRI
9781 S. MERIDIAN BLVD.
SUITE 400
ENGLEWOOD, CO 80112

Project Name: DDMT-DFW
Project #:

| | CT Sample # | Folder # | Client Sample # | Sample Description | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|---|---|---|
| 1 | 1568820 | 194024 | | SB-112-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 2 | 1568821 | 194024 | | SB-112-5-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 3 | 1568822 | 194024 | | SB-111-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 4 | 1568823 | 194024 | | SB-111-5-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 5 | 1568824 | 194024 | | RB-01-DFW | GROUND WATER | 04/01/2025 | 04/04/2025 |
| 6 | 1568825 | 194024 | | RB-01-DFW | TCLP | 04/01/2025 | 04/04/2025 |
| 7 | 1568827 | 194024 | | TB-01-DFW | TRIP BLANK | 04/01/2025 | 04/04/2025 |
| 8 | 1568828 | 194024 | | SB-113-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 9 | 1568829 | 194024 | | SB-113-0-DFW | TCLP | 04/01/2025 | 04/04/2025 |
| 10 | 1568830 | 194024 | | SB-113-5-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 11 | 1568832 | 194024 | | DUP-2-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 12 | 1568833 | 194024 | | DUP-2-DFW | TCLP | 04/01/2025 | 04/04/2025 |
| 13 | 1568834 | 194024 | | SB-114-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 14 | 1568835 | 194024 | | SB-114-0-DFW | TCLP | 04/01/2025 | 04/04/2025 |
| 15 | 1568836 | 194024 | | SB-115-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 16 | 1568837 | 194024 | | SB-115-0-DFW | TCLP | 04/01/2025 | 04/04/2025 |
| 17 | 1568838 | 194024 | | SB-116-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 18 | 1568839 | 194024 | | SB-118-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 19 | 1568840 | 194024 | | SB-118-0-DFW | TCLP | 04/01/2025 | 04/04/2025 |
| 20 | 1568841 | 194024 | | SB-117-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 21 | 1568842 | 194024 | | SB-119-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 22 | 1568843 | 194024 | | SB-120-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 23 | 1568844 | 194024 | | SB-122-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 24 | 1568845 | 194024 | | SB-121-0-DFW | SOIL | 04/01/2025 | 04/04/2025 |
| 25 | 1568846 | 194024 | | DUP-1-DFW | SOIL | 04/01/2025 | 04/04/2025 |

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# QC Batch Cross Reference Summary



HDR, INC
CLAYTON MOKRI
9781 S. MERIDIAN BLVD.
SUITE 400
ENGLEWOOD, CO 80112

Project Name: DDMT-DFW
Project #:
Report Date: 04/23/2025
Date Received: 4/4/2025
SDG #: 194024

## *Inorganic Parameters*

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568820 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568821 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568822 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568823 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568828 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568830 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568832 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568834 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568836 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568838 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568839 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568841 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568842 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568843 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568844 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568845 | Solids, Percent | EPA 8000C | SOIL | | 290562 |
| 1568846 | Solids, Percent | EPA 8000C | SOIL | | 290562 |

## *Metal Parameters*

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568825 | ICP Metals QSM TCLP 5.0 | EPA 6010C | TCLP | 138324 | 290687 |
| 1568829 | ICP Metals QSM TCLP 5.0 | EPA 6010C | TCLP | 138324 | 290687 |
| 1568833 | ICP Metals QSM TCLP 5.0 | EPA 6010C | TCLP | 138324 | 290687 |
| 1568835 | ICP Metals QSM TCLP 5.0 | EPA 6010C | TCLP | 138324 | 290687 |
| 1568837 | ICP Metals QSM TCLP 5.0 | EPA 6010C | TCLP | 138324 | 290687 |
| 1568840 | ICP Metals QSM TCLP 5.0 | EPA 6010C | TCLP | 138324 | 290687 |

Project Name: DDMT-DFW
Project #:
SDG #: 194024

## *Organic Parameters*

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568821 | Volatile Organic Compounds Total Xylen | EPA 8260C | SOIL | 138406 | 290873 |

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568820 | VOC TICS | EPA 8260C | SOIL | | 290578 |
| 1568821 | VOC TICS | EPA 8260C | SOIL | | 290578 |
| 1568822 | VOC TICS | EPA 8260C | SOIL | | 290578 |
| 1568823 | VOC TICS | EPA 8260C | SOIL | | 290578 |
| 1568824 | VOC TICS | EPA 8260C | GROUND WATER | | 290572 |
| 1568827 | VOC TICS | EPA 8260C | TRIP BLANK | | 290572 |
| 1568828 | VOC TICS | EPA 8260C | SOIL | | 290578 |
| 1568830 | VOC TICS | EPA 8260C | SOIL | | 290578 |
| 1568846 | VOC TICS | EPA 8260C | SOIL | | 290578 |

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568820 | Volatile Organic Compounds Total Xylen | EPA 8260C | SOIL | 138270 | 290583 |
| 1568822 | Volatile Organic Compounds Total Xylen | EPA 8260C | SOIL | 138270 | 290583 |
| 1568823 | Volatile Organic Compounds Total Xylen | EPA 8260C | SOIL | 138270 | 290583 |
| 1568824 | Volatile Organic Compounds Total Xylen | EPA 8260C | GROUND WATER | | 290575 |
| 1568827 | Volatile Organic Compounds Total Xylen | EPA 8260C | TRIP BLANK | | 290575 |
| 1568828 | Volatile Organic Compounds Total Xylen | EPA 8260C | SOIL | 138270 | 290583 |
| 1568830 | Volatile Organic Compounds Total Xylen | EPA 8260C | SOIL | 138270 | 290583 |
| 1568846 | Volatile Organic Compounds Total Xylen | EPA 8260C | SOIL | 138270 | 290583 |

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568821 | Volatile Organic Compounds Total 1,2-D | EPA 8260C | SOIL | 138405 | 290872 |

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568820 | Volatile Organic Compounds Total 1,2-D | EPA 8260C | SOIL | 138269 | 290582 |
| 1568822 | Volatile Organic Compounds Total 1,2-D | EPA 8260C | SOIL | 138269 | 290582 |
| 1568823 | Volatile Organic Compounds Total 1,2-D | EPA 8260C | SOIL | 138269 | 290582 |
| 1568824 | Volatile Organic Compounds Total 1,2-D | EPA 8260C | GROUND WATER | | 290574 |
| 1568827 | Volatile Organic Compounds Total 1,2-D | EPA 8260C | TRIP BLANK | | 290574 |
| 1568828 | Volatile Organic Compounds Total 1,2-D | EPA 8260C | SOIL | 138269 | 290582 |
| 1568830 | Volatile Organic Compounds Total 1,2-D | EPA 8260C | SOIL | 138269 | 290582 |
| 1568846 | Volatile Organic Compounds Total 1,2-D | EPA 8260C | SOIL | 138269 | 290582 |

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568820 | VOC 8260 QSM Low Level 5.0 | EPA 8260C | SOIL | 138271 | 290584 |
| 1568822 | VOC 8260 QSM Low Level 5.0 | EPA 8260C | SOIL | 138271 | 290584 |
| 1568823 | VOC 8260 QSM Low Level 5.0 | EPA 8260C | SOIL | 138271 | 290584 |
| 1568824 | VOC 8260 QSM Low Level 5.0 | EPA 8260C | GROUND WATER | | 290576 |

Project Name: DDMT-DFW
Project #:
SDG #: 194024

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568827 | VOC 8260 QSM Low Level 5.0 | EPA 8260C | TRIP BLANK | | 290576 |
| 1568828 | VOC 8260 QSM Low Level 5.0 | EPA 8260C | SOIL | 138271 | 290584 |
| 1568830 | VOC 8260 QSM Low Level 5.0 | EPA 8260C | SOIL | 138271 | 290584 |
| 1568846 | VOC 8260 QSM Low Level 5.0 | EPA 8260C | SOIL | 138271 | 290584 |

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568820 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568821 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568822 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568823 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568824 | SVOC 8270 QSM | EPA 8270D | GROUND WATER | 138277 | 290647 |
| 1568828 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568830 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568832 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568834 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568836 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568838 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568839 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568841 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568842 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568843 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568844 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568845 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568846 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568820 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568822 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568823 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568828 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568832 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568834 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568836 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568838 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568839 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568841 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568842 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568843 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568844 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568845 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568846 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568838 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |
| 1568841 | SVOC 8270 QSM | EPA 8270D | SOIL | 138278 | 290730 |

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568820 | VOC's by 8260 QSM 5x | EPA 8260C | SOIL | 138291 | 290598 |
| 1568821 | VOC's by 8260 QSM 5x | EPA 8260C | SOIL | 138291 | 290598 |

Project Name: DDMT-DFW
Project #:
SDG #: 194024

| CTI LAB#: | Parameter | Method | Matrix | Prep Batch # | Analytical Run # |
|---|---|---|---|---|---|
| 1568822 | VOC's by 8260 QSM 5x | EPA 8260C | SOIL | 138291 | 290598 |
| 1568823 | VOC's by 8260 QSM 5x | EPA 8260C | SOIL | 138291 | 290598 |
| 1568828 | VOC's by 8260 QSM 5x | EPA 8260C | SOIL | 138291 | 290598 |
| 1568830 | VOC's by 8260 QSM 5x | EPA 8260C | SOIL | 138291 | 290598 |
| 1568846 | VOC's by 8260 QSM 5x | EPA 8260C | SOIL | 138291 | 290598 |

## Summary of Methods associated with SDG

**SDG:** **194024**
**Company:** **HDR, INC**
**Project:** **DDMT-DFW**

| Matrix | Analytical Method | Prep Method | Cleanup Method(s) - if applicable |
|---|---|---|---|
| SOIL | EPA 8000C | NONE | |
| SOIL | EPA 8260C | EPA 5035 | |
| GROUND WATER | EPA 8260C | EPA 5030B | |
| SOIL | EPA 8260C | NONE | |
| TRIP BLANK | EPA 8260C | EPA 5030B | |
| SOIL | EPA 8260C | EPA 5035 | |
| GROUND WATER | EPA 8260C | EPA 5030B | |
| TRIP BLANK | EPA 8260C | EPA 5030B | |
| SOIL | EPA 8260C | EPA 5035 | |
| SOIL | EPA 8260C | EPA 5035 | |
| GROUND WATER | EPA 8260C | EPA 5030B | |
| TRIP BLANK | EPA 8260C | EPA 5030B | |
| TCLP | EPA 6010C | EPA 3010A | |
| SOIL | EPA 8260C | EPA 5035 | |
| GROUND WATER | EPA 8260C | EPA 5030B | |
| TRIP BLANK | EPA 8260C | EPA 5030B | |
| GROUND WATER | EPA 8270D | EPA 3510C/8270 | |
| SOIL | EPA 8270D | EPA 3546/8270 | |
| SOIL | EPA 8260C | EPA 5035 | |

# VOLATILE ORGANIC ANALYSIS
# QUALITY CONTROL SUMMARY
# DOCUMENTS

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5 (g/mL) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5 (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290578 | Dilution Factor: | 1.0 |
| Date & Time Analyzed: | 04/11/2025 / 13:08 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: mg/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| TIC 75-07-0 | Acetaldehyde | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 66-25-1 | Hexanal | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 000000-00-0 | 3,3-Diethoxy-1,1,1,5,5,5-hexamet... | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 79-20-9 | Acetic acid, methyl ester | 0.010 | J | N/A | N/A | N/A | N/A |
| 1330-20-7 | Total Xylene | 4.24 | J | 0.71 | 2.4 | 4.8 | 4.8 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.94 (g/mL) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138269 |
| Analytical Run #: | 290582 | Dilution Factor: | 1.00 |
| Date & Time Analyzed: | 04/11/2025 / 13:08 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 540-59-0 | Total 1,2-Dichloroethene | 16.8 | | 0.36 | 1.2 | 2.4 | 2.4 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.94 (g/mL) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 13:08 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.2 | U | 0.59 | 1.2 | 2.4 | 2.4 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 75-34-3 | 1,1-Dichloroethane | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 75-35-4 | 1,1-Dichloroethene | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 563-58-6 | 1,1-Dichloropropene | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 96-18-4 | 1,2,3-Trichloropropane | 2.4 | U | 0.71 | 2.4 | 2.5 | 2.5 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 106-93-4 | 1,2-Dibromoethane | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 107-06-2 | 1,2-Dichloroethane | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 78-87-5 | 1,2-Dichloropropane | 1.2 | U | 0.59 | 1.2 | 2.4 | 2.4 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 142-28-9 | 1,3-Dichloropropane | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 594-20-7 | 2,2-Dichloropropane | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 78-93-3 | 2-Butanone | 28.2 | | 3.6 | 12 | 24 | 24 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.94 (g/mL) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 13:08 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 591-78-6 | 2-Hexanone | 12 | U | 4.0 | 12 | 24 | 24 |
| 106-43-4 | 4-Chlorotoluene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 108-10-1 | 4-Methyl-2-pentanone | 12 | U | 3.9 | 12 | 24 | 24 |
| 67-64-1 | Acetone | 141 | | 18 | 48 | 54 | 54 |
| 107-02-8 | Acrolein | 5.9 | U | 1.5 | 5.9 | 12 | 12 |
| 107-13-1 | Acrylonitrile | 5.9 | U | 1.8 | 5.9 | 12 | 12 |
| 71-43-2 | Benzene | 1.88 | J | 0.36 | 1.2 | 2.4 | 2.4 |
| 108-86-1 | Bromobenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 74-97-5 | Bromochloromethane | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 75-27-4 | Bromodichloromethane | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 75-25-2 | Bromoform | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 74-83-9 | Bromomethane | 4.8 | U | 1.4 | 4.8 | 4.9 | 4.9 |
| 75-15-0 | Carbon disulfide | 1.29 | J | 0.95 | 2.4 | 4.8 | 4.8 |
| 56-23-5 | Carbon tetrachloride | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 108-90-7 | Chlorobenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 75-00-3 | Chloroethane | 2.4 | U | 0.71 | 2.4 | 2.5 | 2.5 |
| 67-66-3 | Chloroform | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 74-87-3 | Chloromethane | 2.4 | U | 0.83 | 2.4 | 2.5 | 2.5 |
| 156-59-2 | cis-1,2-Dichloroethene | 16.1 | | 0.36 | 1.2 | 2.4 | 2.4 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 110-82-7 | Cyclohexane | 2.4 | U | 0.71 | 2.4 | 2.5 | 2.5 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.94 (g/mL) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 13:08 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 74-95-3 | Dibromomethane | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 75-71-8 | Dichlorodifluoromethane | 1.2 | U | 0.59 | 1.2 | 2.4 | 2.4 |
| 100-41-4 | Ethylbenzene | 0.470 | J | 0.36 | 1.2 | 2.4 | 2.4 |
| 98-82-8 | Isopropylbenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 179601-23-1 | m & p-Xylene | 2.59 | J | 0.71 | 2.4 | 4.8 | 4.8 |
| 1634-04-4 | Methyl tert-butyl ether | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 75-09-2 | Methylene chloride | 4.8 | U | 1.8 | 4.8 | 9.5 | 9.5 |
| 91-20-3 | Naphthalene | 1.2 | U | 0.59 | 1.2 | 2.4 | 2.4 |
| 104-51-8 | n-Butylbenzene | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 103-65-1 | n-Propylbenzene | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 95-47-6 | o-Xylene | 1.65 | J | 0.36 | 1.2 | 2.4 | 2.4 |
| 99-87-6 | p-Isopropyltoluene | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 135-98-8 | sec-Butylbenzene | 1.2 | U | 0.59 | 1.2 | 2.4 | 2.4 |
| 100-42-5 | Styrene | 1.2 | U | 0.59 | 1.2 | 2.4 | 2.4 |
| 98-06-6 | tert-Butylbenzene | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |
| 127-18-4 | Tetrachloroethene | 107 | X | 0.59 | 1.2 | 2.4 | 2.4 |
| 109-99-9 | Tetrahydrofuran | 12 | U | 5.9 | 12 | 24 | 24 |
| 108-88-3 | Toluene | 3.29 | | 0.36 | 1.2 | 2.4 | 2.4 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.705 | J | 0.36 | 1.2 | 2.4 | 2.4 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 79-01-6 | Trichloroethene | 47.7 | | 0.36 | 1.2 | 2.4 | 2.4 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.94 (g/mL) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 13:08 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 2.4 | U | 0.71 | 2.4 | 2.5 | 2.5 |
| 108-05-4 | Vinyl acetate | 12 | U | 3.6 | 12 | 24 | 24 |
| 75-01-4 | Vinyl chloride | 1.2 | U | 0.48 | 1.2 | 2.4 | 2.4 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.79 (g/mL) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:42 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 61 | U | 21 | 61 | 120 | 120 |
| 71-55-6 | 1,1,1-Trichloroethane | 120 | U | 37 | 120 | 250 | 250 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 61 | U | 31 | 61 | 120 | 120 |
| 79-00-5 | 1,1,2-Trichloroethane | 120 | U | 33 | 120 | 250 | 250 |
| 75-34-3 | 1,1-Dichloroethane | 120 | U | 33 | 120 | 250 | 250 |
| 75-35-4 | 1,1-Dichloroethene | 61 | U | 29 | 61 | 120 | 120 |
| 563-58-6 | 1,1-Dichloropropene | 120 | U | 52 | 120 | 250 | 250 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 61 | U | 25 | 61 | 120 | 120 |
| 96-18-4 | 1,2,3-Trichloropropane | 120 | U | 39 | 120 | 250 | 250 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 61 | U | 16 | 61 | 120 | 120 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 61 | U | 25 | 61 | 120 | 120 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 61 | U | 18 | 61 | 120 | 120 |
| 106-93-4 | 1,2-Dibromoethane | 61 | U | 22 | 61 | 120 | 120 |
| 95-50-1 | 1,2-Dichlorobenzene | 61 | U | 18 | 61 | 120 | 120 |
| 107-06-2 | 1,2-Dichloroethane | 61 | U | 27 | 61 | 120 | 120 |
| 78-87-5 | 1,2-Dichloropropane | 120 | U | 32 | 120 | 250 | 250 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 61 | U | 18 | 61 | 120 | 120 |
| 541-73-1 | 1,3-Dichlorobenzene | 61 | U | 17 | 61 | 120 | 120 |
| 142-28-9 | 1,3-Dichloropropane | 120 | U | 33 | 120 | 250 | 250 |
| 106-46-7 | 1,4-Dichlorobenzene | 61 | U | 18 | 61 | 120 | 120 |
| 594-20-7 | 2,2-Dichloropropane | 120 | U | 37 | 120 | 250 | 250 |
| 78-93-3 | 2-Butanone | 1200 | U | 340 | 1200 | 2500 | 2500 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.79 (g/mL) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:42 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 61 | U | 20 | 61 | 120 | 120 |
| 591-78-6 | 2-Hexanone | 610 | U | 180 | 610 | 1200 | 1200 |
| 106-43-4 | 4-Chlorotoluene | 61 | U | 16 | 61 | 120 | 120 |
| 108-10-1 | 4-Methyl-2-pentanone | 1200 | U | 370 | 1200 | 2500 | 2500 |
| 67-64-1 | Acetone | 610 | U | 310 | 610 | 1200 | 1200 |
| 107-02-8 | Acrolein | 610 | U | 200 | 610 | 1200 | 1200 |
| 107-13-1 | Acrylonitrile | 610 | U | 170 | 610 | 1200 | 1200 |
| 71-43-2 | Benzene | 120 | U | 34 | 120 | 250 | 250 |
| 108-86-1 | Bromobenzene | 61 | U | 20 | 61 | 120 | 120 |
| 74-97-5 | Bromochloromethane | 120 | U | 38 | 120 | 250 | 250 |
| 75-27-4 | Bromodichloromethane | 61 | U | 28 | 61 | 120 | 120 |
| 75-25-2 | Bromoform | 61 | U | 18 | 61 | 120 | 120 |
| 74-83-9 | Bromomethane | 250 | U | 110 | 250 | 490 | 490 |
| 75-15-0 | Carbon disulfide | 250 | U | 72 | 250 | 490 | 490 |
| 56-23-5 | Carbon tetrachloride | 120 | U | 34 | 120 | 250 | 250 |
| 108-90-7 | Chlorobenzene | 61 | U | 16 | 61 | 120 | 120 |
| 75-00-3 | Chloroethane | 250 | U | 100 | 250 | 490 | 490 |
| 67-66-3 | Chloroform | 120 | U | 39 | 120 | 250 | 250 |
| 74-87-3 | Chloromethane | 120 | U | 40 | 120 | 250 | 250 |
| 156-59-2 | cis-1,2-Dichloroethene | 120 | U | 37 | 120 | 250 | 250 |
| 10061-01-5 | cis-1,3-Dichloropropene | 120 | U | 36 | 120 | 250 | 250 |
| 110-82-7 | Cyclohexane | 120 | U | 38 | 120 | 250 | 250 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.79 (g/mL) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:42 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 61 | U | 18 | 61 | 120 | 120 |
| 74-95-3 | Dibromomethane | 61 | U | 27 | 61 | 120 | 120 |
| 75-71-8 | Dichlorodifluoromethane | 120 | U | 38 | 120 | 250 | 250 |
| 100-41-4 | Ethylbenzene | 61 | U | 16 | 61 | 120 | 120 |
| 98-82-8 | Isopropylbenzene | 61 | U | 16 | 61 | 120 | 120 |
| 179601-23-1 | m & p-Xylene | 120 | U | 31 | 120 | 250 | 250 |
| 1634-04-4 | Methyl tert-butyl ether | 61 | U | 29 | 61 | 120 | 120 |
| 75-09-2 | Methylene chloride | 120 | U | 52 | 120 | 250 | 250 |
| 91-20-3 | Naphthalene | 61 | U | 17 | 61 | 120 | 120 |
| 104-51-8 | n-Butylbenzene | 61 | U | 20 | 61 | 120 | 120 |
| 103-65-1 | n-Propylbenzene | 61 | U | 20 | 61 | 120 | 120 |
| 95-47-6 | o-Xylene | 61 | U | 16 | 61 | 120 | 120 |
| 99-87-6 | p-Isopropyltoluene | 61 | U | 20 | 61 | 120 | 120 |
| 135-98-8 | sec-Butylbenzene | 61 | U | 17 | 61 | 120 | 120 |
| 100-42-5 | Styrene | 61 | U | 25 | 61 | 120 | 120 |
| 98-06-6 | tert-Butylbenzene | 61 | U | 21 | 61 | 120 | 120 |
| 127-18-4 | Tetrachloroethene | 198 | J | 42 | 120 | 250 | 250 |
| 109-99-9 | Tetrahydrofuran | 2500 | U Z | 980 | 2500 | 2900 | 2900 |
| 108-88-3 | Toluene | 120 | U | 34 | 120 | 250 | 250 |
| 156-60-5 | trans-1,2-Dichloroethene | 120 | U | 36 | 120 | 250 | 250 |
| 10061-02-6 | trans-1,3-Dichloropropene | 120 | U | 32 | 120 | 250 | 250 |
| 79-01-6 | Trichloroethene | 80.7 | J | 37 | 120 | 250 | 250 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.79 (g/mL) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:42 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 120 | U | 37 | 120 | 250 | 250 |
| 108-05-4 | Vinyl acetate | 610 | U | 260 | 610 | 1200 | 1200 |
| 75-01-4 | Vinyl chloride | 120 | U | 37 | 120 | 250 | 250 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**RB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | GROUND WATER | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568824 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290572 | Dilution Factor: | 1.0 |
| Date & Time Analyzed: | 04/14/2025 / 00:00 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| TIC 19396-06-6 | beta.-D-Allofuranuronic | 3.25 | J | N/A | N/A | N/A | N/A |
| TIC 55429-29-3 | Arsenous acid, tris(trimethylsil | 2.12 | J | N/A | N/A | N/A | N/A |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **RB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | GROUND WATER | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568824 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290576 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/14/2025 / 18:58 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LW041325 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.050 | U | 0.013 | 0.050 | 0.20 | 0.20 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.050 | U | 0.015 | 0.050 | 0.10 | 0.10 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.10 | U | 0.036 | 0.10 | 0.20 | 0.20 |
| 75-34-3 | 1,1-Dichloroethane | 0.050 | U | 0.017 | 0.050 | 0.10 | 0.10 |
| 75-35-4 | 1,1-Dichloroethene | 0.050 | U | 0.024 | 0.050 | 0.10 | 0.10 |
| 563-58-6 | 1,1-Dichloropropene | 0.20 | U | 0.074 | 0.20 | 0.40 | 0.40 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.050 | U | 0.019 | 0.050 | 0.10 | 0.10 |
| 96-18-4 | 1,2,3-Trichloropropane | 0.10 | U | 0.031 | 0.10 | 0.20 | 0.20 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.050 | U | 0.022 | 0.050 | 0.10 | 0.10 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.050 | U | 0.011 | 0.050 | 0.10 | 0.10 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.20 | U | 0.12 | 0.20 | 0.40 | 0.40 |
| 106-93-4 | 1,2-Dibromoethane | 0.10 | U | 0.029 | 0.10 | 0.20 | 0.20 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.050 | U | 0.016 | 0.050 | 0.10 | 0.10 |
| 107-06-2 | 1,2-Dichloroethane | 0.050 | U | 0.017 | 0.050 | 0.10 | 0.10 |
| 78-87-5 | 1,2-Dichloropropane | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 142-28-9 | 1,3-Dichloropropane | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | U | 0.017 | 0.050 | 0.10 | 0.10 |
| 594-20-7 | 2,2-Dichloropropane | 0.20 | U | 0.075 | 0.20 | 0.40 | 0.40 |
| 78-93-3 | 2-Butanone | 1.0 | U | 0.31 | 1.0 | 2.0 | 2.0 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**RB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | GROUND WATER | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568824 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290576 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/14/2025 / 18:58 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LW041325 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 591-78-6 | 2-Hexanone | 0.50 | U | 0.15 | 0.50 | 1.0 | 1.0 |
| 106-43-4 | 4-Chlorotoluene | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 108-10-1 | 4-Methyl-2-pentanone | 0.50 | U | 0.19 | 0.50 | 1.0 | 1.0 |
| 67-64-1 | Acetone | 4.0 | U | 1.8 | 4.0 | 4.1 | 4.1 |
| 107-13-1 | Acrylonitrile | 0.25 | U | 0.096 | 0.25 | 1.0 | 1.0 |
| 71-43-2 | Benzene | 0.050 | U | 0.022 | 0.050 | 0.10 | 0.10 |
| 108-86-1 | Bromobenzene | 0.050 | U | 0.018 | 0.050 | 0.10 | 0.10 |
| 74-97-5 | Bromochloromethane | 0.10 | U | 0.034 | 0.10 | 0.20 | 0.20 |
| 75-27-4 | Bromodichloromethane | 0.050 | U | 0.019 | 0.050 | 0.10 | 0.10 |
| 75-25-2 | Bromoform | 0.10 | U | 0.041 | 0.10 | 0.20 | 0.20 |
| 74-83-9 | Bromomethane | 0.10 | U | 0.052 | 0.10 | 0.20 | 0.20 |
| 75-15-0 | Carbon disulfide | 0.40 | U | 0.11 | 0.40 | 1.0 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 0.050 | U | 0.018 | 0.050 | 0.10 | 0.10 |
| 108-90-7 | Chlorobenzene | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.40 | 1.0 | 1.2 | 1.2 |
| 67-66-3 | Chloroform | 0.050 | U | 0.016 | 0.050 | 0.10 | 0.10 |
| 74-87-3 | Chloromethane | 0.10 | U | 0.045 | 0.10 | 0.20 | 0.20 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.050 | U | 0.023 | 0.050 | 0.10 | 0.10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.050 | U | 0.014 | 0.050 | 0.10 | 0.10 |
| 110-82-7 | Cyclohexane | 0.050 | U | 0.025 | 0.050 | 0.10 | 0.10 |
| 124-48-1 | Dibromochloromethane | 0.050 | U | 0.016 | 0.050 | 0.10 | 0.10 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **RB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | GROUND WATER | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568824 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290576 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/14/2025 / 18:58 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LW041325 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 74-95-3 | Dibromomethane | 0.05 | U | 0.018 | 0.05 | 0.10 | 0.10 |
| 75-71-8 | Dichlorodifluoromethane | 0.20 | U | 0.091 | 0.20 | 0.40 | 0.40 |
| 100-41-4 | Ethylbenzene | 0.050 | U | 0.014 | 0.050 | 0.10 | 0.10 |
| 98-82-8 | Isopropylbenzene | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 179601-23-1 | m & p-Xylene | 0.10 | U | 0.030 | 0.10 | 0.20 | 0.20 |
| 1634-04-4 | Methyl tert-butyl ether | 0.050 | U | 0.014 | 0.050 | 0.10 | 0.10 |
| 75-09-2 | Methylene chloride | 0.40 | U | 0.20 | 0.40 | 0.41 | 0.41 |
| 91-20-3 | Naphthalene | 0.062 | J | 0.025 | 0.050 | 0.10 | 0.10 |
| 104-51-8 | n-Butylbenzene | 0.050 | U | 0.021 | 0.050 | 0.10 | 0.10 |
| 103-65-1 | n-Propylbenzene | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 95-47-6 | o-Xylene | 0.050 | U | 0.016 | 0.050 | 0.10 | 0.10 |
| 99-87-6 | p-Isopropyltoluene | 0.050 | U | 0.016 | 0.050 | 0.10 | 0.10 |
| 135-98-8 | sec-Butylbenzene | 0.050 | U | 0.021 | 0.050 | 0.10 | 0.10 |
| 100-42-5 | Styrene | 0.050 | U | 0.014 | 0.050 | 0.10 | 0.10 |
| 98-06-6 | tert-Butylbenzene | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 127-18-4 | Tetrachloroethene | 0.10 | U | 0.028 | 0.10 | 0.20 | 0.20 |
| 109-99-9 | Tetrahydrofuran | 0.60 | J | 0.50 | 1.0 | 2.0 | 2.0 |
| 108-88-3 | Toluene | 0.043 | J | 0.020 | 0.050 | 0.10 | 0.10 |
| 540-59-0 | Total 1,2-Dichloroethene | 0.050 | U | 0.023 | 0.050 | 0.10 | 0.10 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.050 | U | 0.020 | 0.050 | 0.20 | 0.20 |
| 79-01-6 | Trichloroethene | 0.050 | U | 0.022 | 0.050 | 0.10 | 0.10 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**RB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | GROUND WATER | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568824 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290576 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/14/2025 / 18:58 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LW041325 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 0.10 | U | 0.033 | 0.10 | 0.20 | 0.20 |
| 108-05-4 | Vinyl acetate | 0.50 | U | 0.14 | 0.50 | 1.0 | 1.0 |
| 75-01-4 | Vinyl chloride | 0.050 | U | 0.019 | 0.050 | 0.10 | 0.10 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**RB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | GROUND WATER | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568824 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290575 | Dilution Factor: | 1.0 |
| Date & Time Analyzed: | 04/14/2025 / 18:58 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LW041325 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 1330-20-7 | Total Xylene | 0.10 | U | 0.030 | 0.10 | 0.20 | 0.20 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5 (g/mL) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5 (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290578 | Dilution Factor: | 1.0 |
| Date & Time Analyzed: | 04/11/2025 / 11:40 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: mg/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| TIC 66-25-1 | Hexanal | 0.030 | J | N/A | N/A | N/A | N/A |
| TIC 75-07-0 | Acetaldehyde | 0.020 | J | N/A | N/A | N/A | N/A |
| TIC 115-11-7 | 1-Propene, 2-methyl- | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 115-07-1 | Propene | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 000000-00-0 | 3,3-Diethoxy-1,1,1,5,5,5-hexamet... | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 78-78-4 | Butane, 2-methyl- | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 110-62-3 | Pentanal | 0.010 | J | N/A | N/A | N/A | N/A |
| 1330-20-7 | Total Xylene | 2.4 | U | 0.73 | 2.4 | 4.9 | 4.9 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.02 (g/mL) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 11:40 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 75-34-3 | 1,1-Dichloroethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 75-35-4 | 1,1-Dichloroethene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 563-58-6 | 1,1-Dichloropropene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 96-18-4 | 1,2,3-Trichloropropane | 2.4 | U | 0.73 | 2.4 | 2.6 | 2.6 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 106-93-4 | 1,2-Dibromoethane | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 107-06-2 | 1,2-Dichloroethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 78-87-5 | 1,2-Dichloropropane | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 142-28-9 | 1,3-Dichloropropane | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 594-20-7 | 2,2-Dichloropropane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 78-93-3 | 2-Butanone | 21.0 | J | 3.7 | 12 | 24 | 24 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.02 (g/mL) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 11:40 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 591-78-6 | 2-Hexanone | 12 | U | 4.2 | 12 | 24 | 24 |
| 106-43-4 | 4-Chlorotoluene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 108-10-1 | 4-Methyl-2-pentanone | 12 | U | 4.0 | 12 | 24 | 24 |
| 67-64-1 | Acetone | 140 | | 18 | 49 | 55 | 55 |
| 107-02-8 | Acrolein | 6.1 | U | 1.6 | 6.1 | 12 | 12 |
| 107-13-1 | Acrylonitrile | 6.1 | U | 1.8 | 6.1 | 12 | 12 |
| 71-43-2 | Benzene | 0.613 | J | 0.37 | 1.2 | 2.4 | 2.4 |
| 108-86-1 | Bromobenzene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 74-97-5 | Bromochloromethane | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 75-27-4 | Bromodichloromethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 75-25-2 | Bromoform | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 74-83-9 | Bromomethane | 4.9 | U | 1.5 | 4.9 | 5.0 | 5.0 |
| 75-15-0 | Carbon disulfide | 8.33 | | 0.98 | 2.4 | 4.9 | 4.9 |
| 56-23-5 | Carbon tetrachloride | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 108-90-7 | Chlorobenzene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 75-00-3 | Chloroethane | 2.4 | U | 0.73 | 2.4 | 2.6 | 2.6 |
| 67-66-3 | Chloroform | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 74-87-3 | Chloromethane | 2.4 | U | 0.85 | 2.4 | 2.6 | 2.6 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 110-82-7 | Cyclohexane | 2.4 | U | 0.73 | 2.4 | 2.6 | 2.6 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.02 (g/mL) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 11:40 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 74-95-3 | Dibromomethane | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 75-71-8 | Dichlorodifluoromethane | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 100-41-4 | Ethylbenzene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 98-82-8 | Isopropylbenzene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 179601-23-1 | m & p-Xylene | 2.4 | U | 0.73 | 2.4 | 4.9 | 4.9 |
| 1634-04-4 | Methyl tert-butyl ether | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 75-09-2 | Methylene chloride | 4.9 | U | 1.8 | 4.9 | 9.8 | 9.8 |
| 91-20-3 | Naphthalene | 5.39 | | 0.61 | 1.2 | 2.4 | 2.4 |
| 104-51-8 | n-Butylbenzene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 103-65-1 | n-Propylbenzene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 95-47-6 | o-Xylene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 99-87-6 | p-Isopropyltoluene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 135-98-8 | sec-Butylbenzene | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 100-42-5 | Styrene | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 98-06-6 | tert-Butylbenzene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 127-18-4 | Tetrachloroethene | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 109-99-9 | Tetrahydrofuran | 12 | U | 6.1 | 12 | 24 | 24 |
| 108-88-3 | Toluene | 1.23 | J | 0.37 | 1.2 | 2.4 | 2.4 |
| 540-59-0 | Total 1,2-Dichloroethene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.02 (g/mL) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 11:40 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 1.2 | U | 0.37 | 1.2 | 2.4 | 2.4 |
| 75-69-4 | Trichlorofluoromethane | 2.4 | U | 0.73 | 2.4 | 2.6 | 2.6 |
| 108-05-4 | Vinyl acetate | 12 | U | 3.7 | 12 | 24 | 24 |
| 75-01-4 | Vinyl chloride | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.01 (g/mL) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 12:51 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 61 | U | 21 | 61 | 120 | 120 |
| 71-55-6 | 1,1,1-Trichloroethane | 120 | U | 37 | 120 | 240 | 240 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 61 | U | 31 | 61 | 120 | 120 |
| 79-00-5 | 1,1,2-Trichloroethane | 120 | U | 33 | 120 | 240 | 240 |
| 75-34-3 | 1,1-Dichloroethane | 120 | U | 33 | 120 | 240 | 240 |
| 75-35-4 | 1,1-Dichloroethene | 61 | U | 29 | 61 | 120 | 120 |
| 563-58-6 | 1,1-Dichloropropene | 120 | U | 51 | 120 | 240 | 240 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 61 | U | 24 | 61 | 120 | 120 |
| 96-18-4 | 1,2,3-Trichloropropane | 120 | U | 39 | 120 | 240 | 240 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 61 | U | 16 | 61 | 120 | 120 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 61 | U | 24 | 61 | 120 | 120 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 61 | U | 18 | 61 | 120 | 120 |
| 106-93-4 | 1,2-Dibromoethane | 61 | U | 22 | 61 | 120 | 120 |
| 95-50-1 | 1,2-Dichlorobenzene | 61 | U | 18 | 61 | 120 | 120 |
| 107-06-2 | 1,2-Dichloroethane | 61 | U | 27 | 61 | 120 | 120 |
| 78-87-5 | 1,2-Dichloropropane | 120 | U | 32 | 120 | 240 | 240 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 61 | U | 18 | 61 | 120 | 120 |
| 541-73-1 | 1,3-Dichlorobenzene | 61 | U | 17 | 61 | 120 | 120 |
| 142-28-9 | 1,3-Dichloropropane | 120 | U | 33 | 120 | 240 | 240 |
| 106-46-7 | 1,4-Dichlorobenzene | 61 | U | 18 | 61 | 120 | 120 |
| 594-20-7 | 2,2-Dichloropropane | 120 | U | 37 | 120 | 240 | 240 |
| 78-93-3 | 2-Butanone | 1200 | U | 340 | 1200 | 2400 | 2400 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.01 (g/mL) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 12:51 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 61 | U | 20 | 61 | 120 | 120 |
| 591-78-6 | 2-Hexanone | 610 | U | 180 | 610 | 1200 | 1200 |
| 106-43-4 | 4-Chlorotoluene | 61 | U | 16 | 61 | 120 | 120 |
| 108-10-1 | 4-Methyl-2-pentanone | 1200 | U | 370 | 1200 | 2400 | 2400 |
| 67-64-1 | Acetone | 610 | U | 310 | 610 | 1200 | 1200 |
| 107-02-8 | Acrolein | 610 | U | 200 | 610 | 1200 | 1200 |
| 107-13-1 | Acrylonitrile | 610 | U | 170 | 610 | 1200 | 1200 |
| 71-43-2 | Benzene | 120 | U | 34 | 120 | 240 | 240 |
| 108-86-1 | Bromobenzene | 61 | U | 20 | 61 | 120 | 120 |
| 74-97-5 | Bromochloromethane | 120 | U | 38 | 120 | 240 | 240 |
| 75-27-4 | Bromodichloromethane | 61 | U | 28 | 61 | 120 | 120 |
| 75-25-2 | Bromoform | 61 | U | 18 | 61 | 120 | 120 |
| 74-83-9 | Bromomethane | 240 | U | 110 | 240 | 490 | 490 |
| 75-15-0 | Carbon disulfide | 240 | U | 72 | 240 | 490 | 490 |
| 56-23-5 | Carbon tetrachloride | 120 | U | 34 | 120 | 240 | 240 |
| 108-90-7 | Chlorobenzene | 61 | U | 16 | 61 | 120 | 120 |
| 75-00-3 | Chloroethane | 240 | U | 100 | 240 | 490 | 490 |
| 67-66-3 | Chloroform | 120 | U | 39 | 120 | 240 | 240 |
| 74-87-3 | Chloromethane | 120 | U | 40 | 120 | 240 | 240 |
| 156-59-2 | cis-1,2-Dichloroethene | 120 | U | 37 | 120 | 240 | 240 |
| 10061-01-5 | cis-1,3-Dichloropropene | 120 | U | 35 | 120 | 240 | 240 |
| 110-82-7 | Cyclohexane | 120 | U | 38 | 120 | 240 | 240 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.01 (g/mL) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 12:51 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 61 | U | 18 | 61 | 120 | 120 |
| 74-95-3 | Dibromomethane | 61 | U | 27 | 61 | 120 | 120 |
| 75-71-8 | Dichlorodifluoromethane | 120 | U | 38 | 120 | 240 | 240 |
| 100-41-4 | Ethylbenzene | 61 | U | 16 | 61 | 120 | 120 |
| 98-82-8 | Isopropylbenzene | 61 | U | 16 | 61 | 120 | 120 |
| 179601-23-1 | m & p-Xylene | 120 | U | 31 | 120 | 240 | 240 |
| 1634-04-4 | Methyl tert-butyl ether | 61 | U | 29 | 61 | 120 | 120 |
| 75-09-2 | Methylene chloride | 120 | U | 51 | 120 | 240 | 240 |
| 91-20-3 | Naphthalene | 254 | | 17 | 61 | 120 | 120 |
| 104-51-8 | n-Butylbenzene | 61 | U | 20 | 61 | 120 | 120 |
| 103-65-1 | n-Propylbenzene | 61 | U | 20 | 61 | 120 | 120 |
| 95-47-6 | o-Xylene | 61 | U | 16 | 61 | 120 | 120 |
| 99-87-6 | p-Isopropyltoluene | 61 | U | 20 | 61 | 120 | 120 |
| 135-98-8 | sec-Butylbenzene | 61 | U | 17 | 61 | 120 | 120 |
| 100-42-5 | Styrene | 61 | U | 24 | 61 | 120 | 120 |
| 98-06-6 | tert-Butylbenzene | 61 | U | 21 | 61 | 120 | 120 |
| 127-18-4 | Tetrachloroethene | 120 | U | 42 | 120 | 240 | 240 |
| 109-99-9 | Tetrahydrofuran | 2400 | U Z | 980 | 2400 | 2900 | 2900 |
| 108-88-3 | Toluene | 120 | U | 34 | 120 | 240 | 240 |
| 156-60-5 | trans-1,2-Dichloroethene | 120 | U | 35 | 120 | 240 | 240 |
| 10061-02-6 | trans-1,3-Dichloropropene | 120 | U | 32 | 120 | 240 | 240 |
| 79-01-6 | Trichloroethene | 120 | U | 37 | 120 | 240 | 240 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.01 (g/mL) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 12:51 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 120 | U | 37 | 120 | 240 | 240 |
| 108-05-4 | Vinyl acetate | 610 | U | 260 | 610 | 1200 | 1200 |
| 75-01-4 | Vinyl chloride | 120 | U | 37 | 120 | 240 | 240 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5 (g/mL) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5 (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290578 | Dilution Factor: | 1.0 |
| Date & Time Analyzed: | 04/11/2025 / 11:11 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: mg/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| TIC 66-25-1 | Hexanal | 0.030 | J | N/A | N/A | N/A | N/A |
| TIC 75-07-0 | Acetaldehyde | 0.030 | J | N/A | N/A | N/A | N/A |
| TIC 110-62-3 | Pentanal | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 5963-74-6 | Hydroxylamine, O-pentyl- | 0.010 | J | N/A | N/A | N/A | N/A |
| 1330-20-7 | Total Xylene | 2.37 | J | 0.62 | 2.1 | 4.1 | 4.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.74 (g/mL) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 11:11 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.51 | 1.0 | 2.1 | 2.1 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 563-58-6 | 1,1-Dichloropropene | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 96-18-4 | 1,2,3-Trichloropropane | 2.1 | U | 0.62 | 2.1 | 2.2 | 2.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.51 | 1.0 | 2.1 | 2.1 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 142-28-9 | 1,3-Dichloropropane | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 594-20-7 | 2,2-Dichloropropane | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 78-93-3 | 2-Butanone | 15.3 | J | 3.1 | 10 | 21 | 21 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.74 (g/mL) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 11:11 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 591-78-6 | 2-Hexanone | 10 | U | 3.5 | 10 | 21 | 21 |
| 106-43-4 | 4-Chlorotoluene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | U | 3.4 | 10 | 21 | 21 |
| 67-64-1 | Acetone | 102 | | 15 | 41 | 46 | 46 |
| 107-02-8 | Acrolein | 5.1 | U | 1.3 | 5.1 | 10 | 10 |
| 107-13-1 | Acrylonitrile | 5.1 | U | 1.5 | 5.1 | 10 | 10 |
| 71-43-2 | Benzene | 1.85 | J | 0.31 | 1.0 | 2.1 | 2.1 |
| 108-86-1 | Bromobenzene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 74-97-5 | Bromochloromethane | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 75-25-2 | Bromoform | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 74-83-9 | Bromomethane | 4.1 | U | 1.2 | 4.1 | 4.2 | 4.2 |
| 75-15-0 | Carbon disulfide | 1.34 | J | 0.82 | 2.1 | 4.1 | 4.1 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 75-00-3 | Chloroethane | 2.1 | U | 0.62 | 2.1 | 2.2 | 2.2 |
| 67-66-3 | Chloroform | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 74-87-3 | Chloromethane | 2.1 | U | 0.72 | 2.1 | 2.2 | 2.2 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 110-82-7 | Cyclohexane | 2.1 | U | 0.62 | 2.1 | 2.2 | 2.2 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.74 (g/mL) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 11:11 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 74-95-3 | Dibromomethane | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 0.51 | 1.0 | 2.1 | 2.1 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 179601-23-1 | m & p-Xylene | 1.75 | J | 0.62 | 2.1 | 4.1 | 4.1 |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 75-09-2 | Methylene chloride | 4.1 | U | 1.5 | 4.1 | 8.2 | 8.2 |
| 91-20-3 | Naphthalene | 1.34 | J | 0.51 | 1.0 | 2.1 | 2.1 |
| 104-51-8 | n-Butylbenzene | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 103-65-1 | n-Propylbenzene | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 95-47-6 | o-Xylene | 0.617 | J | 0.31 | 1.0 | 2.1 | 2.1 |
| 99-87-6 | p-Isopropyltoluene | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 135-98-8 | sec-Butylbenzene | 1.0 | U | 0.51 | 1.0 | 2.1 | 2.1 |
| 100-42-5 | Styrene | 1.0 | U | 0.51 | 1.0 | 2.1 | 2.1 |
| 98-06-6 | tert-Butylbenzene | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.51 | 1.0 | 2.1 | 2.1 |
| 109-99-9 | Tetrahydrofuran | 10 | U | 5.1 | 10 | 21 | 21 |
| 108-88-3 | Toluene | 1.75 | J | 0.31 | 1.0 | 2.1 | 2.1 |
| 540-59-0 | Total 1,2-Dichloroethene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.74 (g/mL) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 11:11 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 1.0 | U | 0.31 | 1.0 | 2.1 | 2.1 |
| 75-69-4 | Trichlorofluoromethane | 2.1 | U | 0.62 | 2.1 | 2.2 | 2.2 |
| 108-05-4 | Vinyl acetate | 10 | U | 3.1 | 10 | 21 | 21 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.41 | 1.0 | 2.1 | 2.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.77 (g/mL) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 13:19 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 51 | U | 17 | 51 | 100 | 100 |
| 71-55-6 | 1,1,1-Trichloroethane | 100 | U | 31 | 100 | 200 | 200 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 51 | U | 26 | 51 | 100 | 100 |
| 79-00-5 | 1,1,2-Trichloroethane | 100 | U | 28 | 100 | 200 | 200 |
| 75-34-3 | 1,1-Dichloroethane | 100 | U | 28 | 100 | 200 | 200 |
| 75-35-4 | 1,1-Dichloroethene | 51 | U | 25 | 51 | 100 | 100 |
| 563-58-6 | 1,1-Dichloropropene | 100 | U | 43 | 100 | 200 | 200 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 51 | U | 20 | 51 | 100 | 100 |
| 96-18-4 | 1,2,3-Trichloropropane | 100 | U | 33 | 100 | 200 | 200 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 51 | U | 13 | 51 | 100 | 100 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 51 | U | 20 | 51 | 100 | 100 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 51 | U | 15 | 51 | 100 | 100 |
| 106-93-4 | 1,2-Dibromoethane | 51 | U | 18 | 51 | 100 | 100 |
| 95-50-1 | 1,2-Dichlorobenzene | 51 | U | 15 | 51 | 100 | 100 |
| 107-06-2 | 1,2-Dichloroethane | 51 | U | 23 | 51 | 100 | 100 |
| 78-87-5 | 1,2-Dichloropropane | 100 | U | 27 | 100 | 200 | 200 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 51 | U | 15 | 51 | 100 | 100 |
| 541-73-1 | 1,3-Dichlorobenzene | 51 | U | 14 | 51 | 100 | 100 |
| 142-28-9 | 1,3-Dichloropropane | 100 | U | 28 | 100 | 200 | 200 |
| 106-46-7 | 1,4-Dichlorobenzene | 51 | U | 15 | 51 | 100 | 100 |
| 594-20-7 | 2,2-Dichloropropane | 100 | U | 31 | 100 | 200 | 200 |
| 78-93-3 | 2-Butanone | 1000 | U | 290 | 1000 | 2000 | 2000 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.77 (g/mL) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 13:19 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 51 | U | 16 | 51 | 100 | 100 |
| 591-78-6 | 2-Hexanone | 510 | U | 150 | 510 | 1000 | 1000 |
| 106-43-4 | 4-Chlorotoluene | 51 | U | 13 | 51 | 100 | 100 |
| 108-10-1 | 4-Methyl-2-pentanone | 1000 | U | 310 | 1000 | 2000 | 2000 |
| 67-64-1 | Acetone | 510 | U | 260 | 510 | 1000 | 1000 |
| 107-02-8 | Acrolein | 510 | U | 160 | 510 | 1000 | 1000 |
| 107-13-1 | Acrylonitrile | 510 | U | 140 | 510 | 1000 | 1000 |
| 71-43-2 | Benzene | 100 | U | 29 | 100 | 200 | 200 |
| 108-86-1 | Bromobenzene | 51 | U | 16 | 51 | 100 | 100 |
| 74-97-5 | Bromochloromethane | 100 | U | 32 | 100 | 200 | 200 |
| 75-27-4 | Bromodichloromethane | 51 | U | 24 | 51 | 100 | 100 |
| 75-25-2 | Bromoform | 51 | U | 15 | 51 | 100 | 100 |
| 74-83-9 | Bromomethane | 200 | U | 92 | 200 | 410 | 410 |
| 75-15-0 | Carbon disulfide | 200 | U | 60 | 200 | 410 | 410 |
| 56-23-5 | Carbon tetrachloride | 100 | U | 29 | 100 | 200 | 200 |
| 108-90-7 | Chlorobenzene | 51 | U | 13 | 51 | 100 | 100 |
| 75-00-3 | Chloroethane | 200 | U | 87 | 200 | 410 | 410 |
| 67-66-3 | Chloroform | 100 | U | 33 | 100 | 200 | 200 |
| 74-87-3 | Chloromethane | 100 | U | 34 | 100 | 200 | 200 |
| 156-59-2 | cis-1,2-Dichloroethene | 100 | U | 31 | 100 | 200 | 200 |
| 10061-01-5 | cis-1,3-Dichloropropene | 100 | U | 30 | 100 | 200 | 200 |
| 110-82-7 | Cyclohexane | 100 | U | 32 | 100 | 200 | 200 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.77 (g/mL) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 13:19 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 51 | U | 15 | 51 | 100 | 100 |
| 74-95-3 | Dibromomethane | 51 | U | 23 | 51 | 100 | 100 |
| 75-71-8 | Dichlorodifluoromethane | 100 | U | 32 | 100 | 200 | 200 |
| 100-41-4 | Ethylbenzene | 51 | U | 13 | 51 | 100 | 100 |
| 98-82-8 | Isopropylbenzene | 51 | U | 13 | 51 | 100 | 100 |
| 179601-23-1 | m & p-Xylene | 100 | U | 26 | 100 | 200 | 200 |
| 1634-04-4 | Methyl tert-butyl ether | 51 | U | 25 | 51 | 100 | 100 |
| 75-09-2 | Methylene chloride | 100 | U | 43 | 100 | 200 | 200 |
| 91-20-3 | Naphthalene | 151 | | 14 | 51 | 100 | 100 |
| 104-51-8 | n-Butylbenzene | 51 | U | 16 | 51 | 100 | 100 |
| 103-65-1 | n-Propylbenzene | 51 | U | 16 | 51 | 100 | 100 |
| 95-47-6 | o-Xylene | 51 | U | 13 | 51 | 100 | 100 |
| 99-87-6 | p-Isopropyltoluene | 51 | U | 16 | 51 | 100 | 100 |
| 135-98-8 | sec-Butylbenzene | 51 | U | 14 | 51 | 100 | 100 |
| 100-42-5 | Styrene | 51 | U | 20 | 51 | 100 | 100 |
| 98-06-6 | tert-Butylbenzene | 51 | U | 17 | 51 | 100 | 100 |
| 127-18-4 | Tetrachloroethene | 100 | U | 35 | 100 | 200 | 200 |
| 109-99-9 | Tetrahydrofuran | 2000 | U Z | 820 | 2000 | 2500 | 2500 |
| 108-88-3 | Toluene | 100 | U | 29 | 100 | 200 | 200 |
| 156-60-5 | trans-1,2-Dichloroethene | 100 | U | 30 | 100 | 200 | 200 |
| 10061-02-6 | trans-1,3-Dichloropropene | 100 | U | 27 | 100 | 200 | 200 |
| 79-01-6 | Trichloroethene | 100 | U | 31 | 100 | 200 | 200 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.77 (g/mL) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 13:19 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 100 | U | 31 | 100 | 200 | 200 |
| 108-05-4 | Vinyl acetate | 510 | U | 220 | 510 | 1000 | 1000 |
| 75-01-4 | Vinyl chloride | 100 | U | 31 | 100 | 200 | 200 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5 (g/mL) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5 (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290578 | Dilution Factor: | 1.0 |
| Date & Time Analyzed: | 04/11/2025 / 12:09 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: mg/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| TIC 66-25-1 | Hexanal | 0.040 | J | N/A | N/A | N/A | N/A |
| TIC 109-67-1 | 1-Pentene | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 75-07-0 | Acetaldehyde | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 592-41-6 | 1-Hexene | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 79-20-9 | Acetic acid, methyl ester | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 115-11-7 | 1-Propene, 2-methyl- | 0.030 | J | N/A | N/A | N/A | N/A |
| TIC 115-07-1 | Propene | 0.020 | J | N/A | N/A | N/A | N/A |
| TIC 109-66-0 | Pentane | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 90-12-0 | Naphthalene, 1-methyl- | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 110-62-3 | Pentanal | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 106-98-9 | 1-Butene | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 78-78-4 | Butane, 2-methyl- | 0.010 | J | N/A | N/A | N/A | N/A |
| 1330-20-7 | Total Xylene | 2.2 | U | 0.67 | 2.2 | 4.4 | 4.4 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.27 (g/mL) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 12:09 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.1 | U | 0.56 | 1.1 | 2.2 | 2.2 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 75-34-3 | 1,1-Dichloroethane | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 75-35-4 | 1,1-Dichloroethene | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 563-58-6 | 1,1-Dichloropropene | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 96-18-4 | 1,2,3-Trichloropropane | 2.2 | U | 0.67 | 2.2 | 2.3 | 2.3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 106-93-4 | 1,2-Dibromoethane | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 107-06-2 | 1,2-Dichloroethane | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 78-87-5 | 1,2-Dichloropropane | 1.1 | U | 0.56 | 1.1 | 2.2 | 2.2 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 142-28-9 | 1,3-Dichloropropane | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 594-20-7 | 2,2-Dichloropropane | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 78-93-3 | 2-Butanone | 14.4 | J | 3.3 | 11 | 22 | 22 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.27 (g/mL) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 12:09 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 591-78-6 | 2-Hexanone | 11 | U | 3.8 | 11 | 22 | 22 |
| 106-43-4 | 4-Chlorotoluene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 108-10-1 | 4-Methyl-2-pentanone | 11 | U | 3.7 | 11 | 22 | 22 |
| 67-64-1 | Acetone | 242 | | 17 | 44 | 50 | 50 |
| 107-02-8 | Acrolein | 5.6 | U | 1.4 | 5.6 | 11 | 11 |
| 107-13-1 | Acrylonitrile | 5.6 | U | 1.7 | 5.6 | 11 | 11 |
| 71-43-2 | Benzene | 0.780 | J | 0.33 | 1.1 | 2.2 | 2.2 |
| 108-86-1 | Bromobenzene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 74-97-5 | Bromochloromethane | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 75-27-4 | Bromodichloromethane | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 75-25-2 | Bromoform | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 74-83-9 | Bromomethane | 4.4 | U | 1.3 | 4.4 | 4.6 | 4.6 |
| 75-15-0 | Carbon disulfide | 3.34 | J | 0.89 | 2.2 | 4.4 | 4.4 |
| 56-23-5 | Carbon tetrachloride | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 108-90-7 | Chlorobenzene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 75-00-3 | Chloroethane | 2.2 | U | 0.67 | 2.2 | 2.3 | 2.3 |
| 67-66-3 | Chloroform | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 74-87-3 | Chloromethane | 2.2 | U | 0.78 | 2.2 | 2.3 | 2.3 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 110-82-7 | Cyclohexane | 2.2 | U | 0.67 | 2.2 | 2.3 | 2.3 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.27 (g/mL) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 12:09 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 74-95-3 | Dibromomethane | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 75-71-8 | Dichlorodifluoromethane | 1.1 | U | 0.56 | 1.1 | 2.2 | 2.2 |
| 100-41-4 | Ethylbenzene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 98-82-8 | Isopropylbenzene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 179601-23-1 | m & p-Xylene | 2.2 | U | 0.67 | 2.2 | 4.4 | 4.4 |
| 1634-04-4 | Methyl tert-butyl ether | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 75-09-2 | Methylene chloride | 4.4 | U | 1.7 | 4.4 | 8.9 | 8.9 |
| 91-20-3 | Naphthalene | 12.7 | | 0.56 | 1.1 | 2.2 | 2.2 |
| 104-51-8 | n-Butylbenzene | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 103-65-1 | n-Propylbenzene | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 95-47-6 | o-Xylene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 99-87-6 | p-Isopropyltoluene | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 135-98-8 | sec-Butylbenzene | 1.1 | U | 0.56 | 1.1 | 2.2 | 2.2 |
| 100-42-5 | Styrene | 1.1 | U | 0.56 | 1.1 | 2.2 | 2.2 |
| 98-06-6 | tert-Butylbenzene | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |
| 127-18-4 | Tetrachloroethene | 1.1 | U | 0.56 | 1.1 | 2.2 | 2.2 |
| 109-99-9 | Tetrahydrofuran | 11 | U | 5.6 | 11 | 22 | 22 |
| 108-88-3 | Toluene | 1.45 | J | 0.33 | 1.1 | 2.2 | 2.2 |
| 540-59-0 | Total 1,2-Dichloroethene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5.27 (g/mL) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 12:09 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 1.1 | U | 0.33 | 1.1 | 2.2 | 2.2 |
| 75-69-4 | Trichlorofluoromethane | 2.2 | U | 0.67 | 2.2 | 2.3 | 2.3 |
| 108-05-4 | Vinyl acetate | 11 | U | 3.3 | 11 | 22 | 22 |
| 75-01-4 | Vinyl chloride | 1.1 | U | 0.44 | 1.1 | 2.2 | 2.2 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.29 (g/mL) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/07/2025 / 16:11 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 68 | U | 23 | 68 | 140 | 140 |
| 71-55-6 | 1,1,1-Trichloroethane | 140 | U | 41 | 140 | 270 | 270 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 68 | U | 34 | 68 | 140 | 140 |
| 79-00-5 | 1,1,2-Trichloroethane | 140 | U | 37 | 140 | 270 | 270 |
| 75-34-3 | 1,1-Dichloroethane | 140 | U | 37 | 140 | 270 | 270 |
| 75-35-4 | 1,1-Dichloroethene | 68 | U | 33 | 68 | 140 | 140 |
| 563-58-6 | 1,1-Dichloropropene | 140 | U | 57 | 140 | 270 | 270 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 68 | U | 27 | 68 | 140 | 140 |
| 96-18-4 | 1,2,3-Trichloropropane | 140 | U | 44 | 140 | 270 | 270 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 68 | U | 18 | 68 | 140 | 140 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 68 | U | 27 | 68 | 140 | 140 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 68 | U | 20 | 68 | 140 | 140 |
| 106-93-4 | 1,2-Dibromoethane | 68 | U | 25 | 68 | 140 | 140 |
| 95-50-1 | 1,2-Dichlorobenzene | 68 | U | 20 | 68 | 140 | 140 |
| 107-06-2 | 1,2-Dichloroethane | 68 | U | 30 | 68 | 140 | 140 |
| 78-87-5 | 1,2-Dichloropropane | 140 | U | 36 | 140 | 270 | 270 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 68 | U | 20 | 68 | 140 | 140 |
| 541-73-1 | 1,3-Dichlorobenzene | 68 | U | 19 | 68 | 140 | 140 |
| 142-28-9 | 1,3-Dichloropropane | 140 | U | 37 | 140 | 270 | 270 |
| 106-46-7 | 1,4-Dichlorobenzene | 68 | U | 20 | 68 | 140 | 140 |
| 594-20-7 | 2,2-Dichloropropane | 140 | U | 41 | 140 | 270 | 270 |
| 78-93-3 | 2-Butanone | 1400 | U | 380 | 1400 | 2700 | 2700 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.29 (g/mL) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/07/2025 / 16:11 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 68 | U | 22 | 68 | 140 | 140 |
| 591-78-6 | 2-Hexanone | 680 | U | 200 | 680 | 1400 | 1400 |
| 106-43-4 | 4-Chlorotoluene | 68 | U | 18 | 68 | 140 | 140 |
| 108-10-1 | 4-Methyl-2-pentanone | 1400 | U | 410 | 1400 | 2700 | 2700 |
| 67-64-1 | Acetone | 680 | U | 340 | 680 | 1400 | 1400 |
| 107-02-8 | Acrolein | 680 | U | 220 | 680 | 1400 | 1400 |
| 107-13-1 | Acrylonitrile | 680 | U | 190 | 680 | 1400 | 1400 |
| 71-43-2 | Benzene | 140 | U | 38 | 140 | 270 | 270 |
| 108-86-1 | Bromobenzene | 68 | U | 22 | 68 | 140 | 140 |
| 74-97-5 | Bromochloromethane | 140 | U | 42 | 140 | 270 | 270 |
| 75-27-4 | Bromodichloromethane | 68 | U | 31 | 68 | 140 | 140 |
| 75-25-2 | Bromoform | 68 | U | 20 | 68 | 140 | 140 |
| 74-83-9 | Bromomethane | 270 | U Z | 120 | 270 | 550 | 550 |
| 75-15-0 | Carbon disulfide | 270 | U | 81 | 270 | 550 | 550 |
| 56-23-5 | Carbon tetrachloride | 140 | U | 38 | 140 | 270 | 270 |
| 108-90-7 | Chlorobenzene | 68 | U | 18 | 68 | 140 | 140 |
| 75-00-3 | Chloroethane | 270 | U Z | 120 | 270 | 550 | 550 |
| 67-66-3 | Chloroform | 140 | U | 44 | 140 | 270 | 270 |
| 74-87-3 | Chloromethane | 140 | U | 45 | 140 | 270 | 270 |
| 156-59-2 | cis-1,2-Dichloroethene | 140 | U | 41 | 140 | 270 | 270 |
| 10061-01-5 | cis-1,3-Dichloropropene | 140 | U | 40 | 140 | 270 | 270 |
| 110-82-7 | Cyclohexane | 140 | U | 42 | 140 | 270 | 270 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.29 (g/mL) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/07/2025 / 16:11 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 68 | U | 20 | 68 | 140 | 140 |
| 74-95-3 | Dibromomethane | 68 | U | 30 | 68 | 140 | 140 |
| 75-71-8 | Dichlorodifluoromethane | 140 | U | 42 | 140 | 270 | 270 |
| 100-41-4 | Ethylbenzene | 68 | U | 18 | 68 | 140 | 140 |
| 98-82-8 | Isopropylbenzene | 68 | U | 18 | 68 | 140 | 140 |
| 179601-23-1 | m & p-Xylene | 140 | U | 34 | 140 | 270 | 270 |
| 1634-04-4 | Methyl tert-butyl ether | 68 | U | 33 | 68 | 140 | 140 |
| 75-09-2 | Methylene chloride | 140 | U | 57 | 140 | 270 | 270 |
| 91-20-3 | Naphthalene | 465 | | 19 | 68 | 140 | 140 |
| 104-51-8 | n-Butylbenzene | 68 | U | 22 | 68 | 140 | 140 |
| 103-65-1 | n-Propylbenzene | 68 | U | 22 | 68 | 140 | 140 |
| 95-47-6 | o-Xylene | 68 | U | 18 | 68 | 140 | 140 |
| 99-87-6 | p-Isopropyltoluene | 22.5 | J | 22 | 68 | 140 | 140 |
| 135-98-8 | sec-Butylbenzene | 68 | U | 19 | 68 | 140 | 140 |
| 100-42-5 | Styrene | 68 | U | 27 | 68 | 140 | 140 |
| 98-06-6 | tert-Butylbenzene | 68 | U | 23 | 68 | 140 | 140 |
| 127-18-4 | Tetrachloroethene | 140 | U | 46 | 140 | 270 | 270 |
| 109-99-9 | Tetrahydrofuran | 2700 | U | 1100 | 2700 | 3300 | 3300 |
| 108-88-3 | Toluene | 140 | U | 38 | 140 | 270 | 270 |
| 156-60-5 | trans-1,2-Dichloroethene | 140 | U | 40 | 140 | 270 | 270 |
| 10061-02-6 | trans-1,3-Dichloropropene | 140 | U | 36 | 140 | 270 | 270 |
| 79-01-6 | Trichloroethene | 140 | U | 41 | 140 | 270 | 270 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.29 (g/mL) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/07/2025 / 16:11 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 140 | U | 41 | 140 | 270 | 270 |
| 108-05-4 | Vinyl acetate | 680 | U Z | 290 | 680 | 1400 | 1400 |
| 75-01-4 | Vinyl chloride | 140 | U | 41 | 140 | 270 | 270 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-112-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5 (g/mL) | CTL Sample ID: | 1568821 |
| % Solids: | 83.5 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5 (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290578 | Dilution Factor: | 1.0 |
| Date & Time Analyzed: | 04/07/2025 / 16:38 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: mg/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| TIC 75-44-5 | Phosgene | 2.09 | J | N/A | N/A | N/A | N/A |
| TIC 2471-83-24 22 | 1H-Indene, 1-ethylidene- | 0.330 | J | N/A | N/A | N/A | N/A |
| TIC 70609-32-4 22 | Ethanimidamide, N-[1-[(butylchlo | 0.120 | J | N/A | N/A | N/A | N/A |
| TIC 1453-82-3 | 4-Pyridinecarboxamide | 0.060 | J | N/A | N/A | N/A | N/A |
| TIC 000-00-0 | 1,3-Butanedione, 1-phenyl-2- | 0.060 | J | N/A | N/A | N/A | N/A |
| TIC 4757-69-1 | 1H-Indole, 2-methyl-3-phenyl- | 0.050 | J | N/A | N/A | N/A | N/A |
| 1330-20-7 | Total Xylene | 59 | U | 15 | 59 | 120 | 120 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.23 (g/mL) | CTL Sample ID: | 1568821 |
| % Solids: | 83.5 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138405 |
| Analytical Run #: | 290872 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/07/2025 / 16:38 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 29 | U | 10.0 | 29 | 59 | 59 |
| 71-55-6 | 1,1,1-Trichloroethane | 59 | U | 18 | 59 | 120 | 120 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 29 | U | 15 | 29 | 59 | 59 |
| 79-00-5 | 1,1,2-Trichloroethane | 59 | U | 16 | 59 | 120 | 120 |
| 75-34-3 | 1,1-Dichloroethane | 59 | U | 16 | 59 | 120 | 120 |
| 75-35-4 | 1,1-Dichloroethene | 29 | U | 14 | 29 | 59 | 59 |
| 563-58-6 | 1,1-Dichloropropene | 59 | U | 25 | 59 | 120 | 120 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 29 | U | 12 | 29 | 59 | 59 |
| 96-18-4 | 1,2,3-Trichloropropane | 59 | U | 19 | 59 | 120 | 120 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 29 | U | 7.6 | 29 | 59 | 59 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 29 | U | 12 | 29 | 59 | 59 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 29 | U | 8.8 | 29 | 59 | 59 |
| 106-93-4 | 1,2-Dibromoethane | 29 | U | 11 | 29 | 59 | 59 |
| 95-50-1 | 1,2-Dichlorobenzene | 29 | U | 8.8 | 29 | 59 | 59 |
| 107-06-2 | 1,2-Dichloroethane | 29 | U | 13 | 29 | 59 | 59 |
| 78-87-5 | 1,2-Dichloropropane | 59 | U | 15 | 59 | 120 | 120 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 29 | U | 8.8 | 29 | 59 | 59 |
| 541-73-1 | 1,3-Dichlorobenzene | 29 | U | 8.2 | 29 | 59 | 59 |
| 142-28-9 | 1,3-Dichloropropane | 59 | U | 16 | 59 | 120 | 120 |
| 106-46-7 | 1,4-Dichlorobenzene | 29 | U | 8.8 | 29 | 59 | 59 |
| 594-20-7 | 2,2-Dichloropropane | 59 | U | 18 | 59 | 120 | 120 |
| 78-93-3 | 2-Butanone | 590 | U | 160 | 590 | 1200 | 1200 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.23 (g/mL) | CTL Sample ID: | 1568821 |
| % Solids: | 83.5 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138405 |
| Analytical Run #: | 290872 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/07/2025 / 16:38 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 29 | U | 9.4 | 29 | 59 | 59 |
| 591-78-6 | 2-Hexanone | 290 | U | 88 | 290 | 590 | 590 |
| 106-43-4 | 4-Chlorotoluene | 29 | U | 7.6 | 29 | 59 | 59 |
| 108-10-1 | 4-Methyl-2-pentanone | 590 | U | 180 | 590 | 1200 | 1200 |
| 67-64-1 | Acetone | 290 | U | 150 | 290 | 590 | 590 |
| 107-02-8 | Acrolein | 290 | U | 94 | 290 | 590 | 590 |
| 107-13-1 | Acrylonitrile | 290 | U | 82 | 290 | 590 | 590 |
| 71-43-2 | Benzene | 59 | U | 16 | 59 | 120 | 120 |
| 108-86-1 | Bromobenzene | 29 | U | 9.4 | 29 | 59 | 59 |
| 74-97-5 | Bromochloromethane | 59 | U | 18 | 59 | 120 | 120 |
| 75-27-4 | Bromodichloromethane | 29 | U | 13 | 29 | 59 | 59 |
| 75-25-2 | Bromoform | 29 | U | 8.8 | 29 | 59 | 59 |
| 74-83-9 | Bromomethane | 120 | U Z | 53 | 120 | 230 | 230 |
| 75-15-0 | Carbon disulfide | 120 | U | 35 | 120 | 230 | 230 |
| 56-23-5 | Carbon tetrachloride | 59 | U | 16 | 59 | 120 | 120 |
| 108-90-7 | Chlorobenzene | 29 | U | 7.6 | 29 | 59 | 59 |
| 75-00-3 | Chloroethane | 120 | U Z | 50 | 120 | 230 | 230 |
| 67-66-3 | Chloroform | 59 | U | 19 | 59 | 120 | 120 |
| 74-87-3 | Chloromethane | 59 | U | 19 | 59 | 120 | 120 |
| 156-59-2 | cis-1,2-Dichloroethene | 59 | U | 18 | 59 | 120 | 120 |
| 10061-01-5 | cis-1,3-Dichloropropene | 59 | U | 17 | 59 | 120 | 120 |
| 110-82-7 | Cyclohexane | 59 | U | 18 | 59 | 120 | 120 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.23 (g/mL) | CTL Sample ID: | 1568821 |
| % Solids: | 83.5 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138405 |
| Analytical Run #: | 290872 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/07/2025 / 16:38 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 29 | U | 8.8 | 29 | 59 | 59 |
| 74-95-3 | Dibromomethane | 29 | U | 13 | 29 | 59 | 59 |
| 75-71-8 | Dichlorodifluoromethane | 59 | U | 18 | 59 | 120 | 120 |
| 100-41-4 | Ethylbenzene | 29 | U | 7.6 | 29 | 59 | 59 |
| 98-82-8 | Isopropylbenzene | 29 | U | 7.6 | 29 | 59 | 59 |
| 179601-23-1 | m & p-Xylene | 59 | U | 15 | 59 | 120 | 120 |
| 1634-04-4 | Methyl tert-butyl ether | 29 | U | 14 | 29 | 59 | 59 |
| 75-09-2 | Methylene chloride | 59 | U | 25 | 59 | 120 | 120 |
| 91-20-3 | Naphthalene | 12.4 | J | 8.2 | 29 | 59 | 59 |
| 104-51-8 | n-Butylbenzene | 29 | U | 9.4 | 29 | 59 | 59 |
| 103-65-1 | n-Propylbenzene | 29 | U | 9.4 | 29 | 59 | 59 |
| 95-47-6 | o-Xylene | 29 | U | 7.6 | 29 | 59 | 59 |
| 99-87-6 | p-Isopropyltoluene | 29 | U | 9.4 | 29 | 59 | 59 |
| 135-98-8 | sec-Butylbenzene | 29 | U | 8.2 | 29 | 59 | 59 |
| 100-42-5 | Styrene | 29 | U | 12 | 29 | 59 | 59 |
| 98-06-6 | tert-Butylbenzene | 29 | U | 10.0 | 29 | 59 | 59 |
| 127-18-4 | Tetrachloroethene | 59 | U | 20 | 59 | 120 | 120 |
| 109-99-9 | Tetrahydrofuran | 1200 | U | 470 | 1200 | 1400 | 1400 |
| 108-88-3 | Toluene | 59 | U | 16 | 59 | 120 | 120 |
| 540-59-0 | Total 1,2-Dichloroethene | 59 | U | 18 | 59 | 120 | 120 |
| 156-60-5 | trans-1,2-Dichloroethene | 59 | U | 17 | 59 | 120 | 120 |
| 10061-02-6 | trans-1,3-Dichloropropene | 59 | U | 15 | 59 | 120 | 120 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-112-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.23 (g/mL) | CTL Sample ID: | 1568821 |
| % Solids: | 83.5 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138405 |
| Analytical Run #: | 290872 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/07/2025 / 16:38 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 59 | U | 18 | 59 | 120 | 120 |
| 75-69-4 | Trichlorofluoromethane | 59 | U | 18 | 59 | 120 | 120 |
| 108-05-4 | Vinyl acetate | 290 | U Z | 120 | 290 | 590 | 590 |
| 75-01-4 | Vinyl chloride | 59 | U | 18 | 59 | 120 | 120 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5 (g/mL) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5 (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290578 | Dilution Factor: | 1.0 |
| Date & Time Analyzed: | 04/11/2025 / 13:37 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: mg/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| TIC 66-25-1 | Hexanal | 0.040 | J | N/A | N/A | N/A | N/A |
| TIC 75-07-0 | Acetaldehyde | 0.020 | J | N/A | N/A | N/A | N/A |
| TIC 55012-80-1 | Silane, trimethyl[5-methyl-2-(1- | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 110-62-3 | Pentanal | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 124-13-0 | Octanal | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 11-71-7 | Heptanal | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 78-78-4 | Butane, 2-methyl- | 0.010 | J | N/A | N/A | N/A | N/A |
| 1330-20-7 | Total Xylene | 2.8 | U | 0.85 | 2.8 | 5.7 | 5.7 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.25 (g/mL) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138269 |
| Analytical Run #: | 290582 | Dilution Factor: | 1.00 |
| Date & Time Analyzed: | 04/11/2025 / 13:37 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 540-59-0 | Total 1,2-Dichloroethene | 3.62 | | 0.43 | 1.4 | 2.8 | 2.8 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.25 (g/mL) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 13:37 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.4 | U M | 0.71 | 1.4 | 2.8 | 2.8 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.4 | U | 0.43 | 1.4 | 2.8 | 2.8 |
| 75-34-3 | 1,1-Dichloroethane | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 75-35-4 | 1,1-Dichloroethene | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 563-58-6 | 1,1-Dichloropropene | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 96-18-4 | 1,2,3-Trichloropropane | 2.8 | U M | 0.85 | 2.8 | 3.0 | 3.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.4 | U M | 0.43 | 1.4 | 2.8 | 2.8 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1.4 | U M | 0.57 | 1.4 | 2.8 | 2.8 |
| 106-93-4 | 1,2-Dibromoethane | 1.4 | U M | 0.43 | 1.4 | 2.8 | 2.8 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.4 | U | 0.43 | 1.4 | 2.8 | 2.8 |
| 107-06-2 | 1,2-Dichloroethane | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 78-87-5 | 1,2-Dichloropropane | 1.4 | U | 0.71 | 1.4 | 2.8 | 2.8 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.4 | U M | 0.43 | 1.4 | 2.8 | 2.8 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.4 | U M | 0.43 | 1.4 | 2.8 | 2.8 |
| 142-28-9 | 1,3-Dichloropropane | 1.4 | U | 0.43 | 1.4 | 2.8 | 2.8 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.4 | U M | 0.43 | 1.4 | 2.8 | 2.8 |
| 594-20-7 | 2,2-Dichloropropane | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 78-93-3 | 2-Butanone | 23.3 | J | 4.3 | 14 | 28 | 28 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.25 (g/mL) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 13:37 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 1.4 | U M | 0.43 | 1.4 | 2.8 | 2.8 |
| 591-78-6 | 2-Hexanone | 14 | U M | 4.8 | 14 | 28 | 28 |
| 106-43-4 | 4-Chlorotoluene | 1.4 | U M | 0.43 | 1.4 | 2.8 | 2.8 |
| 108-10-1 | 4-Methyl-2-pentanone | 14 | U M | 4.7 | 14 | 28 | 28 |
| 67-64-1 | Acetone | 187 | Y | 21 | 57 | 64 | 64 |
| 107-02-8 | Acrolein | 7.1 | U Y | 1.8 | 7.1 | 14 | 14 |
| 107-13-1 | Acrylonitrile | 7.1 | U M | 2.1 | 7.1 | 14 | 14 |
| 71-43-2 | Benzene | 0.580 | J | 0.43 | 1.4 | 2.8 | 2.8 |
| 108-86-1 | Bromobenzene | 1.4 | U M | 0.43 | 1.4 | 2.8 | 2.8 |
| 74-97-5 | Bromochloromethane | 1.4 | U | 0.43 | 1.4 | 2.8 | 2.8 |
| 75-27-4 | Bromodichloromethane | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 75-25-2 | Bromoform | 1.4 | U | 0.43 | 1.4 | 2.8 | 2.8 |
| 74-83-9 | Bromomethane | 5.7 | U | 1.7 | 5.7 | 5.8 | 5.8 |
| 75-15-0 | Carbon disulfide | 11.9 | | 1.1 | 2.8 | 5.7 | 5.7 |
| 56-23-5 | Carbon tetrachloride | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 108-90-7 | Chlorobenzene | 1.4 | U | 0.43 | 1.4 | 2.8 | 2.8 |
| 75-00-3 | Chloroethane | 2.8 | U | 0.85 | 2.8 | 3.0 | 3.0 |
| 67-66-3 | Chloroform | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |
| 74-87-3 | Chloromethane | 2.8 | U | 0.99 | 2.8 | 3.0 | 3.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 3.62 | M,Y | 0.43 | 1.4 | 2.8 | 2.8 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.4 | U | 0.43 | 1.4 | 2.8 | 2.8 |
| 110-82-7 | Cyclohexane | 1.16 | J | 0.85 | 2.8 | 3.0 | 3.0 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.25 (g/mL) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 13:37 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.4 | U | | 0.57 | 1.4 | 2.8 | 2.8 |
| 74-95-3 | Dibromomethane | 1.4 | U | | 0.43 | 1.4 | 2.8 | 2.8 |
| 75-71-8 | Dichlorodifluoromethane | 1.4 | U | | 0.71 | 1.4 | 2.8 | 2.8 |
| 100-41-4 | Ethylbenzene | 1.4 | U | | 0.43 | 1.4 | 2.8 | 2.8 |
| 98-82-8 | Isopropylbenzene | 1.4 | U | | 0.43 | 1.4 | 2.8 | 2.8 |
| 179601-23-1 | m & p-Xylene | 2.8 | U | | 0.85 | 2.8 | 5.7 | 5.7 |
| 1634-04-4 | Methyl tert-butyl ether | 1.4 | U | | 0.43 | 1.4 | 2.8 | 2.8 |
| 75-09-2 | Methylene chloride | 5.7 | U | | 2.1 | 5.7 | 11 | 11 |
| 91-20-3 | Naphthalene | 1.4 | U | | 0.71 | 1.4 | 2.8 | 2.8 |
| 104-51-8 | n-Butylbenzene | 1.4 | U | M | 0.57 | 1.4 | 2.8 | 2.8 |
| 103-65-1 | n-Propylbenzene | 1.4 | U | M | 0.57 | 1.4 | 2.8 | 2.8 |
| 95-47-6 | o-Xylene | 1.4 | U | | 0.43 | 1.4 | 2.8 | 2.8 |
| 99-87-6 | p-Isopropyltoluene | 1.4 | U | M | 0.57 | 1.4 | 2.8 | 2.8 |
| 135-98-8 | sec-Butylbenzene | 1.4 | U | M | 0.71 | 1.4 | 2.8 | 2.8 |
| 100-42-5 | Styrene | 1.4 | U | | 0.71 | 1.4 | 2.8 | 2.8 |
| 98-06-6 | tert-Butylbenzene | 1.4 | U | M | 0.57 | 1.4 | 2.8 | 2.8 |
| 127-18-4 | Tetrachloroethene | 60.9 | | M,Y | 0.71 | 1.4 | 2.8 | 2.8 |
| 109-99-9 | Tetrahydrofuran | 14 | U | M | 7.1 | 14 | 28 | 28 |
| 108-88-3 | Toluene | 1.59 | J | | 0.43 | 1.4 | 2.8 | 2.8 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.4 | U | | 0.43 | 1.4 | 2.8 | 2.8 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.4 | U | | 0.43 | 1.4 | 2.8 | 2.8 |
| 79-01-6 | Trichloroethene | 26.4 | | M,Y | 0.43 | 1.4 | 2.8 | 2.8 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.25 (g/mL) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 13:37 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 2.8 | U | 0.85 | 2.8 | 3.0 | 3.0 |
| 108-05-4 | Vinyl acetate | 14 | U | 4.3 | 14 | 28 | 28 |
| 75-01-4 | Vinyl chloride | 1.4 | U | 0.57 | 1.4 | 2.8 | 2.8 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 3.35 (g/mL) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 13:46 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 90 | U | 31 | 90 | 180 | 180 |
| 71-55-6 | 1,1,1-Trichloroethane | 180 | U | 54 | 180 | 360 | 360 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 90 | U Y | 45 | 90 | 180 | 180 |
| 79-00-5 | 1,1,2-Trichloroethane | 180 | U | 49 | 180 | 360 | 360 |
| 75-34-3 | 1,1-Dichloroethane | 180 | U | 49 | 180 | 360 | 360 |
| 75-35-4 | 1,1-Dichloroethene | 90 | U M,Y | 43 | 90 | 180 | 180 |
| 563-58-6 | 1,1-Dichloropropene | 180 | U | 76 | 180 | 360 | 360 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 90 | U Y | 36 | 90 | 180 | 180 |
| 96-18-4 | 1,2,3-Trichloropropane | 180 | U M,Y | 58 | 180 | 360 | 360 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 90 | U Y | 23 | 90 | 180 | 180 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 90 | U | 36 | 90 | 180 | 180 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 90 | U | 27 | 90 | 180 | 180 |
| 106-93-4 | 1,2-Dibromoethane | 90 | U | 32 | 90 | 180 | 180 |
| 95-50-1 | 1,2-Dichlorobenzene | 90 | U | 27 | 90 | 180 | 180 |
| 107-06-2 | 1,2-Dichloroethane | 90 | U | 40 | 90 | 180 | 180 |
| 78-87-5 | 1,2-Dichloropropane | 180 | U | 47 | 180 | 360 | 360 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 90 | U | 27 | 90 | 180 | 180 |
| 541-73-1 | 1,3-Dichlorobenzene | 90 | U | 25 | 90 | 180 | 180 |
| 142-28-9 | 1,3-Dichloropropane | 180 | U Y | 49 | 180 | 360 | 360 |
| 106-46-7 | 1,4-Dichlorobenzene | 90 | U | 27 | 90 | 180 | 180 |
| 594-20-7 | 2,2-Dichloropropane | 180 | U | 54 | 180 | 360 | 360 |
| 78-93-3 | 2-Butanone | 1800 | U Y | 500 | 1800 | 3600 | 3600 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 3.35 (g/mL) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 13:46 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 90 | U Y | 29 | 90 | 180 | 180 |
| 591-78-6 | 2-Hexanone | 900 | U | 270 | 900 | 1800 | 1800 |
| 106-43-4 | 4-Chlorotoluene | 90 | U | 23 | 90 | 180 | 180 |
| 108-10-1 | 4-Methyl-2-pentanone | 1800 | U | 540 | 1800 | 3600 | 3600 |
| 67-64-1 | Acetone | 900 | U Y | 450 | 900 | 1800 | 1800 |
| 107-02-8 | Acrolein | 900 | U Y | 290 | 900 | 1800 | 1800 |
| 107-13-1 | Acrylonitrile | 900 | U | 250 | 900 | 1800 | 1800 |
| 71-43-2 | Benzene | 180 | U | 50 | 180 | 360 | 360 |
| 108-86-1 | Bromobenzene | 90 | U M,Y | 29 | 90 | 180 | 180 |
| 74-97-5 | Bromochloromethane | 180 | U Y | 56 | 180 | 360 | 360 |
| 75-27-4 | Bromodichloromethane | 90 | U | 41 | 90 | 180 | 180 |
| 75-25-2 | Bromoform | 90 | U | 27 | 90 | 180 | 180 |
| 74-83-9 | Bromomethane | 360 | U Y | 160 | 360 | 720 | 720 |
| 75-15-0 | Carbon disulfide | 360 | U Y | 110 | 360 | 720 | 720 |
| 56-23-5 | Carbon tetrachloride | 180 | U | 50 | 180 | 360 | 360 |
| 108-90-7 | Chlorobenzene | 90 | U | 23 | 90 | 180 | 180 |
| 75-00-3 | Chloroethane | 360 | U | 150 | 360 | 720 | 720 |
| 67-66-3 | Chloroform | 180 | U | 58 | 180 | 360 | 360 |
| 74-87-3 | Chloromethane | 180 | U | 59 | 180 | 360 | 360 |
| 156-59-2 | cis-1,2-Dichloroethene | 180 | U | 54 | 180 | 360 | 360 |
| 10061-01-5 | cis-1,3-Dichloropropene | 180 | U | 52 | 180 | 360 | 360 |
| 110-82-7 | Cyclohexane | 180 | U | 56 | 180 | 360 | 360 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 3.35 (g/mL) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 13:46 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 90 | U | 27 | 90 | 180 | 180 |
| 74-95-3 | Dibromomethane | 90 | U | 40 | 90 | 180 | 180 |
| 75-71-8 | Dichlorodifluoromethane | 180 | U | 56 | 180 | 360 | 360 |
| 100-41-4 | Ethylbenzene | 90 | U | 23 | 90 | 180 | 180 |
| 98-82-8 | Isopropylbenzene | 90 | U | 23 | 90 | 180 | 180 |
| 179601-23-1 | m & p-Xylene | 180 | U | 45 | 180 | 360 | 360 |
| 1634-04-4 | Methyl tert-butyl ether | 90 | U | 43 | 90 | 180 | 180 |
| 75-09-2 | Methylene chloride | 180 | U M,Y | 76 | 180 | 360 | 360 |
| 91-20-3 | Naphthalene | 130 | J M,Y | 25 | 90 | 180 | 180 |
| 104-51-8 | n-Butylbenzene | 90 | U | 29 | 90 | 180 | 180 |
| 103-65-1 | n-Propylbenzene | 90 | U Y | 29 | 90 | 180 | 180 |
| 95-47-6 | o-Xylene | 90 | U | 23 | 90 | 180 | 180 |
| 99-87-6 | p-Isopropyltoluene | 90 | U | 29 | 90 | 180 | 180 |
| 135-98-8 | sec-Butylbenzene | 90 | U | 25 | 90 | 180 | 180 |
| 100-42-5 | Styrene | 90 | U | 36 | 90 | 180 | 180 |
| 98-06-6 | tert-Butylbenzene | 90 | U | 31 | 90 | 180 | 180 |
| 127-18-4 | Tetrachloroethene | 273 | J | 61 | 180 | 360 | 360 |
| 109-99-9 | Tetrahydrofuran | 3600 | U Z | 1400 | 3600 | 4300 | 4300 |
| 108-88-3 | Toluene | 180 | U | 50 | 180 | 360 | 360 |
| 156-60-5 | trans-1,2-Dichloroethene | 180 | U | 52 | 180 | 360 | 360 |
| 10061-02-6 | trans-1,3-Dichloropropene | 180 | U | 47 | 180 | 360 | 360 |
| 79-01-6 | Trichloroethene | 85.0 | J | 54 | 180 | 360 | 360 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 3.35 (g/mL) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 13:46 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 180 | U M | 54 | 180 | 360 | 360 |
| 108-05-4 | Vinyl acetate | 900 | U Y | 380 | 900 | 1800 | 1800 |
| 75-01-4 | Vinyl chloride | 180 | U | 54 | 180 | 360 | 360 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 5 (g/mL) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5 (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290578 | Dilution Factor: | 1.0 |
| Date & Time Analyzed: | 04/11/2025 / 14:06 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: mg/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| TIC 66-25-1 | Hexanal | 0.030 | J | N/A | N/A | N/A | N/A |
| TIC 75-07-0 | Acetaldehyde | 0.020 | J | N/A | N/A | N/A | N/A |
| TIC 000000-00-0 | 7-Hydroxy-7,8,9,10-tetramethyl-7... | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 10-62-3 | Pentanal | 0.010 | J | N/A | N/A | N/A | N/A |
| TIC 106-97-8 | Butane | 0.010 | J | N/A | N/A | N/A | N/A |
| 1330-20-7 | Total Xylene | 4.08 | J | 0.73 | 2.4 | 4.9 | 4.9 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.95 (g/mL) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 14:06 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 71-55-6 | 1,1,1-Trichloroethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 75-34-3 | 1,1-Dichloroethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 75-35-4 | 1,1-Dichloroethene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 563-58-6 | 1,1-Dichloropropene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 96-18-4 | 1,2,3-Trichloropropane | 2.4 | U | 0.73 | 2.4 | 2.5 | 2.5 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 106-93-4 | 1,2-Dibromoethane | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 107-06-2 | 1,2-Dichloroethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 78-87-5 | 1,2-Dichloropropane | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 142-28-9 | 1,3-Dichloropropane | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 594-20-7 | 2,2-Dichloropropane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 78-93-3 | 2-Butanone | 19.6 | J | 3.6 | 12 | 24 | 24 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.95 (g/mL) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 14:06 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 591-78-6 | 2-Hexanone | 12 | U | 4.1 | 12 | 24 | 24 |
| 106-43-4 | 4-Chlorotoluene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 108-10-1 | 4-Methyl-2-pentanone | 12 | U | 4.0 | 12 | 24 | 24 |
| 67-64-1 | Acetone | 131 | | 18 | 49 | 55 | 55 |
| 107-02-8 | Acrolein | 6.1 | U | 1.6 | 6.1 | 12 | 12 |
| 107-13-1 | Acrylonitrile | 6.1 | U | 1.8 | 6.1 | 12 | 12 |
| 71-43-2 | Benzene | 1.92 | J | 0.36 | 1.2 | 2.4 | 2.4 |
| 108-86-1 | Bromobenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 74-97-5 | Bromochloromethane | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 75-27-4 | Bromodichloromethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 75-25-2 | Bromoform | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 74-83-9 | Bromomethane | 4.9 | U | 1.5 | 4.9 | 5.0 | 5.0 |
| 75-15-0 | Carbon disulfide | 2.52 | J | 0.97 | 2.4 | 4.9 | 4.9 |
| 56-23-5 | Carbon tetrachloride | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 108-90-7 | Chlorobenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 75-00-3 | Chloroethane | 2.4 | U | 0.73 | 2.4 | 2.5 | 2.5 |
| 67-66-3 | Chloroform | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 74-87-3 | Chloromethane | 2.4 | U | 0.85 | 2.4 | 2.5 | 2.5 |
| 156-59-2 | cis-1,2-Dichloroethene | 18.0 | | 0.36 | 1.2 | 2.4 | 2.4 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 110-82-7 | Cyclohexane | 2.4 | U | 0.73 | 2.4 | 2.5 | 2.5 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.95 (g/mL) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 14:06 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 74-95-3 | Dibromomethane | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 75-71-8 | Dichlorodifluoromethane | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 100-41-4 | Ethylbenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 98-82-8 | Isopropylbenzene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 179601-23-1 | m & p-Xylene | 2.52 | J | 0.73 | 2.4 | 4.9 | 4.9 |
| 1634-04-4 | Methyl tert-butyl ether | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |
| 75-09-2 | Methylene chloride | 4.9 | U | 1.8 | 4.9 | 9.7 | 9.7 |
| 91-20-3 | Naphthalene | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 104-51-8 | n-Butylbenzene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 103-65-1 | n-Propylbenzene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 95-47-6 | o-Xylene | 1.56 | J | 0.36 | 1.2 | 2.4 | 2.4 |
| 99-87-6 | p-Isopropyltoluene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 135-98-8 | sec-Butylbenzene | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 100-42-5 | Styrene | 1.2 | U | 0.61 | 1.2 | 2.4 | 2.4 |
| 98-06-6 | tert-Butylbenzene | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |
| 127-18-4 | Tetrachloroethene | 66.0 | | 0.61 | 1.2 | 2.4 | 2.4 |
| 109-99-9 | Tetrahydrofuran | 12 | U | 6.1 | 12 | 24 | 24 |
| 108-88-3 | Toluene | 3.97 | | 0.36 | 1.2 | 2.4 | 2.4 |
| 540-59-0 | Total 1,2-Dichloroethene | 18.6 | | 0.36 | 1.2 | 2.4 | 2.4 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.601 | J | 0.36 | 1.2 | 2.4 | 2.4 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.2 | U | 0.36 | 1.2 | 2.4 | 2.4 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.95 (g/mL) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/11/2025 / 14:06 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LS041025 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 79-01-6 | Trichloroethene | 35.1 | | 0.36 | 1.2 | 2.4 | 2.4 |
| 75-69-4 | Trichlorofluoromethane | 2.4 | U | 0.73 | 2.4 | 2.5 | 2.5 |
| 108-05-4 | Vinyl acetate | 12 | U | 3.6 | 12 | 24 | 24 |
| 75-01-4 | Vinyl chloride | 1.2 | U | 0.49 | 1.2 | 2.4 | 2.4 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.86 (g/mL) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:14 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 62 | U | 21 | 62 | 120 | 120 |
| 71-55-6 | 1,1,1-Trichloroethane | 120 | U | 37 | 120 | 250 | 250 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 62 | U | 31 | 62 | 120 | 120 |
| 79-00-5 | 1,1,2-Trichloroethane | 120 | U | 33 | 120 | 250 | 250 |
| 75-34-3 | 1,1-Dichloroethane | 120 | U | 33 | 120 | 250 | 250 |
| 75-35-4 | 1,1-Dichloroethene | 62 | U | 30 | 62 | 120 | 120 |
| 563-58-6 | 1,1-Dichloropropene | 120 | U | 52 | 120 | 250 | 250 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 62 | U | 25 | 62 | 120 | 120 |
| 96-18-4 | 1,2,3-Trichloropropane | 120 | U | 40 | 120 | 250 | 250 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 62 | U | 16 | 62 | 120 | 120 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 62 | U | 25 | 62 | 120 | 120 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 62 | U | 19 | 62 | 120 | 120 |
| 106-93-4 | 1,2-Dibromoethane | 62 | U | 22 | 62 | 120 | 120 |
| 95-50-1 | 1,2-Dichlorobenzene | 62 | U | 19 | 62 | 120 | 120 |
| 107-06-2 | 1,2-Dichloroethane | 62 | U | 27 | 62 | 120 | 120 |
| 78-87-5 | 1,2-Dichloropropane | 120 | U | 32 | 120 | 250 | 250 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 62 | U | 19 | 62 | 120 | 120 |
| 541-73-1 | 1,3-Dichlorobenzene | 62 | U | 17 | 62 | 120 | 120 |
| 142-28-9 | 1,3-Dichloropropane | 120 | U | 33 | 120 | 250 | 250 |
| 106-46-7 | 1,4-Dichlorobenzene | 62 | U | 19 | 62 | 120 | 120 |
| 594-20-7 | 2,2-Dichloropropane | 120 | U | 37 | 120 | 250 | 250 |
| 78-93-3 | 2-Butanone | 1200 | U | 350 | 1200 | 2500 | 2500 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.86 (g/mL) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:14 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 62 | U | 20 | 62 | 120 | 120 |
| 591-78-6 | 2-Hexanone | 620 | U | 190 | 620 | 1200 | 1200 |
| 106-43-4 | 4-Chlorotoluene | 62 | U | 16 | 62 | 120 | 120 |
| 108-10-1 | 4-Methyl-2-pentanone | 1200 | U | 370 | 1200 | 2500 | 2500 |
| 67-64-1 | Acetone | 620 | U | 310 | 620 | 1200 | 1200 |
| 107-02-8 | Acrolein | 620 | U | 200 | 620 | 1200 | 1200 |
| 107-13-1 | Acrylonitrile | 620 | U | 170 | 620 | 1200 | 1200 |
| 71-43-2 | Benzene | 120 | U | 35 | 120 | 250 | 250 |
| 108-86-1 | Bromobenzene | 62 | U | 20 | 62 | 120 | 120 |
| 74-97-5 | Bromochloromethane | 120 | U | 38 | 120 | 250 | 250 |
| 75-27-4 | Bromodichloromethane | 62 | U | 28 | 62 | 120 | 120 |
| 75-25-2 | Bromoform | 62 | U | 19 | 62 | 120 | 120 |
| 74-83-9 | Bromomethane | 250 | U | 110 | 250 | 490 | 490 |
| 75-15-0 | Carbon disulfide | 250 | U | 73 | 250 | 490 | 490 |
| 56-23-5 | Carbon tetrachloride | 120 | U | 35 | 120 | 250 | 250 |
| 108-90-7 | Chlorobenzene | 62 | U | 16 | 62 | 120 | 120 |
| 75-00-3 | Chloroethane | 250 | U | 110 | 250 | 490 | 490 |
| 67-66-3 | Chloroform | 120 | U | 40 | 120 | 250 | 250 |
| 74-87-3 | Chloromethane | 120 | U | 41 | 120 | 250 | 250 |
| 156-59-2 | cis-1,2-Dichloroethene | 120 | U | 37 | 120 | 250 | 250 |
| 10061-01-5 | cis-1,3-Dichloropropene | 120 | U | 36 | 120 | 250 | 250 |
| 110-82-7 | Cyclohexane | 120 | U | 38 | 120 | 250 | 250 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.86 (g/mL) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:14 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 62 | U | 19 | 62 | 120 | 120 |
| 74-95-3 | Dibromomethane | 62 | U | 27 | 62 | 120 | 120 |
| 75-71-8 | Dichlorodifluoromethane | 120 | U | 38 | 120 | 250 | 250 |
| 100-41-4 | Ethylbenzene | 62 | U | 16 | 62 | 120 | 120 |
| 98-82-8 | Isopropylbenzene | 62 | U | 16 | 62 | 120 | 120 |
| 179601-23-1 | m & p-Xylene | 41.6 | J | 31 | 120 | 250 | 250 |
| 1634-04-4 | Methyl tert-butyl ether | 62 | U | 30 | 62 | 120 | 120 |
| 75-09-2 | Methylene chloride | 120 | U | 52 | 120 | 250 | 250 |
| 91-20-3 | Naphthalene | 19.0 | J | 17 | 62 | 120 | 120 |
| 104-51-8 | n-Butylbenzene | 62 | U | 20 | 62 | 120 | 120 |
| 103-65-1 | n-Propylbenzene | 62 | U | 20 | 62 | 120 | 120 |
| 95-47-6 | o-Xylene | 21.5 | J | 16 | 62 | 120 | 120 |
| 99-87-6 | p-Isopropyltoluene | 62 | U | 20 | 62 | 120 | 120 |
| 135-98-8 | sec-Butylbenzene | 62 | U | 17 | 62 | 120 | 120 |
| 100-42-5 | Styrene | 62 | U | 25 | 62 | 120 | 120 |
| 98-06-6 | tert-Butylbenzene | 62 | U | 21 | 62 | 120 | 120 |
| 127-18-4 | Tetrachloroethene | 400 | | 42 | 120 | 250 | 250 |
| 109-99-9 | Tetrahydrofuran | 2500 | U Z | 990 | 2500 | 3000 | 3000 |
| 108-88-3 | Toluene | 120 | U | 35 | 120 | 250 | 250 |
| 156-60-5 | trans-1,2-Dichloroethene | 120 | U | 36 | 120 | 250 | 250 |
| 10061-02-6 | trans-1,3-Dichloropropene | 120 | U | 32 | 120 | 250 | 250 |
| 79-01-6 | Trichloroethene | 114 | J | 37 | 120 | 250 | 250 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 4.86 (g/mL) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:14 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: PS032525 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 120 | U | 37 | 120 | 250 | 250 |
| 108-05-4 | Vinyl acetate | 620 | U | 260 | 620 | 1200 | 1200 |
| 75-01-4 | Vinyl chloride | 120 | U | 37 | 120 | 250 | 250 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **TB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | TRIP BLANK | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568827 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290572 | Dilution Factor: | 1.0 |
| Date & Time Analyzed: | 04/14/2025 / 00:00 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| TIC 75-00-3 | Ethyl chloride | 3.75 | J | N/A | N/A | N/A | N/A |
| TIC 4757-69-1 | 1H-Indole, 2-methyl-3-phenyl- | 1.74 | J | N/A | N/A | N/A | N/A |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **TB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | TRIP BLANK | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568827 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290576 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/14/2025 / 12:18 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LW041325 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.050 | U | 0.013 | 0.050 | 0.20 | 0.20 |
| 71-55-6 | 1,1,1-Trichloroethane | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.050 | U | 0.015 | 0.050 | 0.10 | 0.10 |
| 79-00-5 | 1,1,2-Trichloroethane | 0.10 | U | 0.036 | 0.10 | 0.20 | 0.20 |
| 75-34-3 | 1,1-Dichloroethane | 0.050 | U | 0.017 | 0.050 | 0.10 | 0.10 |
| 75-35-4 | 1,1-Dichloroethene | 0.050 | U | 0.024 | 0.050 | 0.10 | 0.10 |
| 563-58-6 | 1,1-Dichloropropene | 0.20 | U | 0.074 | 0.20 | 0.40 | 0.40 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.050 | U | 0.019 | 0.050 | 0.10 | 0.10 |
| 96-18-4 | 1,2,3-Trichloropropane | 0.10 | U | 0.031 | 0.10 | 0.20 | 0.20 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.050 | U | 0.022 | 0.050 | 0.10 | 0.10 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.050 | U | 0.011 | 0.050 | 0.10 | 0.10 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.20 | U | 0.12 | 0.20 | 0.40 | 0.40 |
| 106-93-4 | 1,2-Dibromoethane | 0.10 | U | 0.029 | 0.10 | 0.20 | 0.20 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.050 | U | 0.016 | 0.050 | 0.10 | 0.10 |
| 107-06-2 | 1,2-Dichloroethane | 0.050 | U | 0.017 | 0.050 | 0.10 | 0.10 |
| 78-87-5 | 1,2-Dichloropropane | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 142-28-9 | 1,3-Dichloropropane | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.050 | U | 0.017 | 0.050 | 0.10 | 0.10 |
| 594-20-7 | 2,2-Dichloropropane | 0.20 | U | 0.075 | 0.20 | 0.40 | 0.40 |
| 78-93-3 | 2-Butanone | 1.0 | U | 0.31 | 1.0 | 2.0 | 2.0 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **TB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | TRIP BLANK | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568827 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290576 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/14/2025 / 12:18 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LW041325 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 95-49-8 | 2-Chlorotoluene | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 591-78-6 | 2-Hexanone | 0.50 | U | 0.15 | 0.50 | 1.0 | 1.0 |
| 106-43-4 | 4-Chlorotoluene | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 108-10-1 | 4-Methyl-2-pentanone | 0.50 | U | 0.19 | 0.50 | 1.0 | 1.0 |
| 67-64-1 | Acetone | 4.0 | U | 1.8 | 4.0 | 4.1 | 4.1 |
| 107-13-1 | Acrylonitrile | 0.25 | U | 0.096 | 0.25 | 1.0 | 1.0 |
| 71-43-2 | Benzene | 0.050 | U | 0.022 | 0.050 | 0.10 | 0.10 |
| 108-86-1 | Bromobenzene | 0.050 | U | 0.018 | 0.050 | 0.10 | 0.10 |
| 74-97-5 | Bromochloromethane | 0.10 | U | 0.034 | 0.10 | 0.20 | 0.20 |
| 75-27-4 | Bromodichloromethane | 0.050 | U | 0.019 | 0.050 | 0.10 | 0.10 |
| 75-25-2 | Bromoform | 0.10 | U | 0.041 | 0.10 | 0.20 | 0.20 |
| 74-83-9 | Bromomethane | 0.10 | U | 0.052 | 0.10 | 0.20 | 0.20 |
| 75-15-0 | Carbon disulfide | 0.40 | U | 0.11 | 0.40 | 1.0 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 0.050 | U | 0.018 | 0.050 | 0.10 | 0.10 |
| 108-90-7 | Chlorobenzene | 0.050 | U | 0.013 | 0.050 | 0.10 | 0.10 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.40 | 1.0 | 1.2 | 1.2 |
| 67-66-3 | Chloroform | 0.050 | U | 0.016 | 0.050 | 0.10 | 0.10 |
| 74-87-3 | Chloromethane | 0.10 | U | 0.045 | 0.10 | 0.20 | 0.20 |
| 156-59-2 | cis-1,2-Dichloroethene | 0.050 | U | 0.023 | 0.050 | 0.10 | 0.10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.050 | U | 0.014 | 0.050 | 0.10 | 0.10 |
| 110-82-7 | Cyclohexane | 0.050 | U | 0.025 | 0.050 | 0.10 | 0.10 |
| 124-48-1 | Dibromochloromethane | 0.050 | U | 0.016 | 0.050 | 0.10 | 0.10 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A**

***VOLATILE ORGANICS ANALYSIS***

Sample Description: **TB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | TRIP BLANK | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568827 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290576 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/14/2025 / 12:18 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LW041325 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 74-95-3 | Dibromomethane | 0.05 | U | 0.018 | 0.05 | 0.10 | 0.10 |
| 75-71-8 | Dichlorodifluoromethane | 0.20 | U | 0.091 | 0.20 | 0.40 | 0.40 |
| 100-41-4 | Ethylbenzene | 0.050 | U | 0.014 | 0.050 | 0.10 | 0.10 |
| 98-82-8 | Isopropylbenzene | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 179601-23-1 | m & p-Xylene | 0.10 | U | 0.030 | 0.10 | 0.20 | 0.20 |
| 1634-04-4 | Methyl tert-butyl ether | 0.050 | U | 0.014 | 0.050 | 0.10 | 0.10 |
| 75-09-2 | Methylene chloride | 0.40 | U | 0.20 | 0.40 | 0.41 | 0.41 |
| 91-20-3 | Naphthalene | 0.050 | U | 0.025 | 0.050 | 0.10 | 0.10 |
| 104-51-8 | n-Butylbenzene | 0.050 | U | 0.021 | 0.050 | 0.10 | 0.10 |
| 103-65-1 | n-Propylbenzene | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 95-47-6 | o-Xylene | 0.050 | U | 0.016 | 0.050 | 0.10 | 0.10 |
| 99-87-6 | p-Isopropyltoluene | 0.050 | U | 0.016 | 0.050 | 0.10 | 0.10 |
| 135-98-8 | sec-Butylbenzene | 0.050 | U | 0.021 | 0.050 | 0.10 | 0.10 |
| 100-42-5 | Styrene | 0.050 | U | 0.014 | 0.050 | 0.10 | 0.10 |
| 98-06-6 | tert-Butylbenzene | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 127-18-4 | Tetrachloroethene | 0.10 | U | 0.028 | 0.10 | 0.20 | 0.20 |
| 109-99-9 | Tetrahydrofuran | 1.0 | U | 0.50 | 1.0 | 2.0 | 2.0 |
| 108-88-3 | Toluene | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 540-59-0 | Total 1,2-Dichloroethene | 0.050 | U | 0.023 | 0.050 | 0.10 | 0.10 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.050 | U | 0.020 | 0.050 | 0.10 | 0.10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.050 | U | 0.020 | 0.050 | 0.20 | 0.20 |
| 79-01-6 | Trichloroethene | 0.050 | U | 0.022 | 0.050 | 0.10 | 0.10 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**TB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | TRIP BLANK | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568827 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290576 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/14/2025 / 12:18 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LW041325 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 0.10 | U | 0.033 | 0.10 | 0.20 | 0.20 |
| 108-05-4 | Vinyl acetate | 0.50 | U | 0.14 | 0.50 | 1.0 | 1.0 |
| 75-01-4 | Vinyl chloride | 0.050 | U | 0.019 | 0.050 | 0.10 | 0.10 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1A

***VOLATILE ORGANICS ANALYSIS***

Sample Description

**TB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | TRIP BLANK | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1568827 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | |
| Analytical Run #: | 290575 | Dilution Factor: | 1.0 |
| Date & Time Analyzed: | 04/14/2025 / 12:18 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: LW041325 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 1330-20-7 | Total Xylene | 0.10 | U | 0.030 | 0.10 | 0.20 | 0.20 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1572498 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 0 |
| Analytical Run #: | 290576 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | / | |
| ICAL Calibration #: | LW041325 | Concentration Units: | ug/L |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 04/14/2025 | 10:53 | 0.013 | U | 0.013 | 0.20 | ***0.10*** |
| 71-55-6 | 1,1,1-Trichloroethane | 04/14/2025 | 10:53 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 04/14/2025 | 10:53 | 0.015 | U | 0.015 | 0.10 | ***0.050*** |
| 79-00-5 | 1,1,2-Trichloroethane | 04/14/2025 | 10:53 | 0.036 | U | 0.036 | 0.20 | ***0.10*** |
| 75-34-3 | 1,1-Dichloroethane | 04/14/2025 | 10:53 | 0.017 | U | 0.017 | 0.10 | ***0.050*** |
| 75-35-4 | 1,1-Dichloroethene | 04/14/2025 | 10:53 | 0.024 | U | 0.024 | 0.10 | ***0.050*** |
| 563-58-6 | 1,1-Dichloropropene | 04/14/2025 | 10:53 | 0.074 | U | 0.074 | 0.23 | ***0.115*** |
| 87-61-6 | 1,2,3-Trichlorobenzene | 04/14/2025 | 10:53 | 0.019 | U | 0.019 | 0.10 | ***0.050*** |
| 96-18-4 | 1,2,3-Trichloropropane | 04/14/2025 | 10:53 | 0.031 | U | 0.031 | 0.20 | ***0.10*** |
| 120-82-1 | 1,2,4-Trichlorobenzene | 04/14/2025 | 10:53 | 0.022 | U | 0.022 | 0.10 | ***0.050*** |
| 95-63-6 | 1,2,4-Trimethylbenzene | 04/14/2025 | 10:53 | 0.011 | U | 0.011 | 0.10 | ***0.050*** |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 04/14/2025 | 10:53 | 0.12 | U | 0.12 | 0.40 | ***0.20*** |
| 106-93-4 | 1,2-Dibromoethane | 04/14/2025 | 10:53 | 0.029 | U | 0.029 | 0.20 | ***0.10*** |
| 95-50-1 | 1,2-Dichlorobenzene | 04/14/2025 | 10:53 | 0.016 | U | 0.016 | 0.10 | ***0.050*** |
| 107-06-2 | 1,2-Dichloroethane | 04/14/2025 | 10:53 | 0.017 | U | 0.017 | 0.10 | ***0.050*** |
| 78-87-5 | 1,2-Dichloropropane | 04/14/2025 | 10:53 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 108-67-8 | 1,3,5-Trimethylbenzene | 04/14/2025 | 10:53 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 541-73-1 | 1,3-Dichlorobenzene | 04/14/2025 | 10:53 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 142-28-9 | 1,3-Dichloropropane | 04/14/2025 | 10:53 | 0.020 | U | 0.020 | 0.10 | ***0.050*** |
| 106-46-7 | 1,4-Dichlorobenzene | 04/14/2025 | 10:53 | 0.017 | U | 0.017 | 0.10 | ***0.050*** |
| 594-20-7 | 2,2-Dichloropropane | 04/14/2025 | 10:53 | 0.075 | U | 0.075 | 0.23 | ***0.115*** |
| 78-93-3 | 2-Butanone | 04/14/2025 | 10:53 | 0.31 | U | 0.31 | 2.0 | ***1.0*** |
| 95-49-8 | 2-Chlorotoluene | 04/14/2025 | 10:53 | 0.020 | U | 0.020 | 0.10 | ***0.050*** |

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**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1572498 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 0 |
| Analytical Run #: | 290576 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | LW041325 | Concentration Units: | ug/L |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 591-78-6 | 2-Hexanone | 04/14/2025 | 10:53 | 0.15 | U | 0.15 | 1.0 | ***0.50*** |
| 106-43-4 | 4-Chlorotoluene | 04/14/2025 | 10:53 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 108-10-1 | 4-Methyl-2-pentanone | 04/14/2025 | 10:53 | 0.19 | U | 0.19 | 1.0 | ***0.50*** |
| 67-64-1 | Acetone | 04/14/2025 | 10:53 | 1.8 | U | 1.8 | 4.1 | ***2.0*** |
| 107-13-1 | Acrylonitrile | 04/14/2025 | 10:53 | 0.096 | U | 0.096 | 1.0 | ***0.50*** |
| 71-43-2 | Benzene | 04/14/2025 | 10:53 | 0.022 | U | 0.022 | 0.10 | ***0.050*** |
| 108-86-1 | Bromobenzene | 04/14/2025 | 10:53 | 0.018 | U | 0.018 | 0.10 | ***0.050*** |
| 74-97-5 | Bromochloromethane | 04/14/2025 | 10:53 | 0.034 | U | 0.034 | 0.20 | ***0.10*** |
| 75-27-4 | Bromodichloromethane | 04/14/2025 | 10:53 | 0.019 | U | 0.019 | 0.10 | ***0.050*** |
| 75-25-2 | Bromoform | 04/14/2025 | 10:53 | 0.041 | U | 0.041 | 0.20 | ***0.10*** |
| 74-83-9 | Bromomethane | 04/14/2025 | 10:53 | 0.052 | U | 0.052 | 0.20 | ***0.10*** |
| 75-15-0 | Carbon disulfide | 04/14/2025 | 10:53 | 0.11 | U | 0.11 | 1.0 | ***0.50*** |
| 56-23-5 | Carbon tetrachloride | 04/14/2025 | 10:53 | 0.018 | U | 0.018 | 0.10 | ***0.050*** |
| 108-90-7 | Chlorobenzene | 04/14/2025 | 10:53 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 75-00-3 | Chloroethane | 04/14/2025 | 10:53 | 0.40 | U | 0.40 | 1.2 | ***0.60*** |
| 67-66-3 | Chloroform | 04/14/2025 | 10:53 | 0.016 | U | 0.016 | 0.10 | ***0.050*** |
| 74-87-3 | Chloromethane | 04/14/2025 | 10:53 | 0.045 | U | 0.045 | 0.20 | ***0.10*** |
| 156-59-2 | cis-1,2-Dichloroethene | 04/14/2025 | 10:53 | 0.023 | U | 0.023 | 0.10 | ***0.050*** |
| 10061-01-5 | cis-1,3-Dichloropropene | 04/14/2025 | 10:53 | 0.014 | U | 0.014 | 0.10 | ***0.050*** |
| 110-82-7 | Cyclohexane | 04/14/2025 | 10:53 | 0.025 | U | 0.025 | 0.10 | ***0.05*** |
| 124-48-1 | Dibromochloromethane | 04/14/2025 | 10:53 | 0.016 | U | 0.016 | 0.10 | ***0.050*** |
| 74-95-3 | Dibromomethane | 04/14/2025 | 10:53 | 0.018 | U | 0.018 | 0.10 | ***0.05*** |
| 75-71-8 | Dichlorodifluoromethane | 04/14/2025 | 10:53 | 0.091 | U | 0.091 | 0.40 | ***0.20*** |

CT LABORATORIES
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**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1572498 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 0 |
| Analytical Run #: | 290576 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | / | |
| ICAL Calibration #: | LW041325 | Concentration Units: | ug/L |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 100-41-4 | Ethylbenzene | 04/14/2025 | 10:53 | 0.014 | U | 0.014 | 0.10 | ***0.050*** |
| 98-82-8 | Isopropylbenzene | 04/14/2025 | 10:53 | 0.020 | U | 0.020 | 0.10 | ***0.050*** |
| 179601-23-1 | m & p-Xylene | 04/14/2025 | 10:53 | 0.030 | U | 0.030 | 0.20 | ***0.10*** |
| 1634-04-4 | Methyl tert-butyl ether | 04/14/2025 | 10:53 | 0.014 | U | 0.014 | 0.10 | ***0.050*** |
| 75-09-2 | Methylene chloride | 04/14/2025 | 10:53 | 0.20 | U | 0.20 | 0.41 | ***0.20*** |
| 91-20-3 | Naphthalene | 04/14/2025 | 10:53 | 0.025 | U | 0.025 | 0.10 | ***0.050*** |
| 104-51-8 | n-Butylbenzene | 04/14/2025 | 10:53 | 0.021 | U | 0.021 | 0.10 | ***0.050*** |
| 103-65-1 | n-Propylbenzene | 04/14/2025 | 10:53 | 0.020 | U | 0.020 | 0.10 | ***0.050*** |
| 95-47-6 | o-Xylene | 04/14/2025 | 10:53 | 0.016 | U | 0.016 | 0.10 | ***0.050*** |
| 99-87-6 | p-Isopropyltoluene | 04/14/2025 | 10:53 | 0.016 | U | 0.016 | 0.10 | ***0.050*** |
| 135-98-8 | sec-Butylbenzene | 04/14/2025 | 10:53 | 0.021 | U | 0.021 | 0.10 | ***0.050*** |
| 100-42-5 | Styrene | 04/14/2025 | 10:53 | 0.014 | U | 0.014 | 0.10 | ***0.050*** |
| 98-06-6 | tert-Butylbenzene | 04/14/2025 | 10:53 | 0.020 | U | 0.020 | 0.10 | ***0.050*** |
| 127-18-4 | Tetrachloroethene | 04/14/2025 | 10:53 | 0.028 | U | 0.028 | 0.20 | ***0.10*** |
| 109-99-9 | Tetrahydrofuran | 04/14/2025 | 10:53 | 0.50 | U | 0.50 | 2.0 | ***1.0*** |
| 108-88-3 | Toluene | 04/14/2025 | 10:53 | 0.020 | U | 0.020 | 0.10 | ***0.050*** |
| 156-60-5 | trans-1,2-Dichloroethene | 04/14/2025 | 10:53 | 0.020 | U | 0.020 | 0.10 | ***0.050*** |
| 10061-02-6 | trans-1,3-Dichloropropene | 04/14/2025 | 10:53 | 0.020 | U | 0.020 | 0.20 | ***0.10*** |
| 79-01-6 | Trichloroethene | 04/14/2025 | 10:53 | 0.022 | U | 0.022 | 0.10 | ***0.050*** |
| 75-69-4 | Trichlorofluoromethane | 04/14/2025 | 10:53 | 0.033 | U | 0.033 | 0.20 | ***0.10*** |
| 108-05-4 | Vinyl acetate | 04/14/2025 | 10:53 | 0.14 | U | 0.14 | 1.0 | ***0.50*** |
| 75-01-4 | Vinyl chloride | 04/14/2025 | 10:53 | 0.019 | U | 0.019 | 0.10 | ***0.050*** |

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**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **CCB**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1570300 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 0 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | PS032525 | Concentration Units: | mg/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 04/08/2025 | 10:59 | 0.017 | U | 0.017 | 0.10 | ***0.050*** |
| 71-55-6 | 1,1,1-Trichloroethane | 04/08/2025 | 10:59 | 0.030 | U | 0.030 | 0.20 | ***0.10*** |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 04/08/2025 | 10:59 | 0.025 | U | 0.025 | 0.10 | ***0.050*** |
| 79-00-5 | 1,1,2-Trichloroethane | 04/08/2025 | 10:59 | 0.027 | U | 0.027 | 0.20 | ***0.10*** |
| 75-34-3 | 1,1-Dichloroethane | 04/08/2025 | 10:59 | 0.027 | U | 0.027 | 0.20 | ***0.10*** |
| 75-35-4 | 1,1-Dichloroethene | 04/08/2025 | 10:59 | 0.024 | U | 0.024 | 0.10 | ***0.050*** |
| 563-58-6 | 1,1-Dichloropropene | 04/08/2025 | 10:59 | 0.042 | U | 0.042 | 0.20 | ***0.10*** |
| 87-61-6 | 1,2,3-Trichlorobenzene | 04/08/2025 | 10:59 | 0.020 | U | 0.020 | 0.10 | ***0.050*** |
| 96-18-4 | 1,2,3-Trichloropropane | 04/08/2025 | 10:59 | 0.032 | U | 0.032 | 0.20 | ***0.10*** |
| 120-82-1 | 1,2,4-Trichlorobenzene | 04/08/2025 | 10:59 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 95-63-6 | 1,2,4-Trimethylbenzene | 04/08/2025 | 10:59 | 0.020 | U | 0.020 | 0.10 | ***0.050*** |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 04/08/2025 | 10:59 | 0.015 | U | 0.015 | 0.10 | ***0.050*** |
| 106-93-4 | 1,2-Dibromoethane | 04/08/2025 | 10:59 | 0.018 | U | 0.018 | 0.10 | ***0.050*** |
| 95-50-1 | 1,2-Dichlorobenzene | 04/08/2025 | 10:59 | 0.015 | U | 0.015 | 0.10 | ***0.050*** |
| 107-06-2 | 1,2-Dichloroethane | 04/08/2025 | 10:59 | 0.022 | U | 0.022 | 0.10 | ***0.050*** |
| 78-87-5 | 1,2-Dichloropropane | 04/08/2025 | 10:59 | 0.026 | U | 0.026 | 0.20 | ***0.10*** |
| 108-67-8 | 1,3,5-Trimethylbenzene | 04/08/2025 | 10:59 | 0.015 | U | 0.015 | 0.10 | ***0.050*** |
| 541-73-1 | 1,3-Dichlorobenzene | 04/08/2025 | 10:59 | 0.014 | U | 0.014 | 0.10 | ***0.050*** |
| 142-28-9 | 1,3-Dichloropropane | 04/08/2025 | 10:59 | 0.027 | U | 0.027 | 0.20 | ***0.10*** |
| 106-46-7 | 1,4-Dichlorobenzene | 04/08/2025 | 10:59 | 0.015 | U | 0.015 | 0.10 | ***0.050*** |
| 594-20-7 | 2,2-Dichloropropane | 04/08/2025 | 10:59 | 0.030 | U | 0.030 | 0.20 | ***0.10*** |
| 78-93-3 | 2-Butanone | 04/08/2025 | 10:59 | 0.28 | U | 0.28 | 2.0 | ***1.0*** |
| 95-49-8 | 2-Chlorotoluene | 04/08/2025 | 10:59 | 0.016 | U | 0.016 | 0.10 | ***0.050*** |

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**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **CCB**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1570300 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 0 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | / | |
| ICAL Calibration #: | PS032525 | Concentration Units: | mg/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 591-78-6 | 2-Hexanone | 04/08/2025 | 10:59 | 0.15 | U | 0.15 | 1.0 | ***0.50*** |
| 106-43-4 | 4-Chlorotoluene | 04/08/2025 | 10:59 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 108-10-1 | 4-Methyl-2-pentanone | 04/08/2025 | 10:59 | 0.30 | U | 0.30 | 2.0 | ***1.0*** |
| 67-64-1 | Acetone | 04/08/2025 | 10:59 | 0.25 | U | 0.25 | 1.0 | ***0.50*** |
| 107-02-8 | Acrolein | 04/08/2025 | 10:59 | 0.16 | U | 0.16 | 1.0 | ***0.50*** |
| 107-13-1 | Acrylonitrile | 04/08/2025 | 10:59 | 0.14 | U | 0.14 | 1.0 | ***0.50*** |
| 71-43-2 | Benzene | 04/08/2025 | 10:59 | 0.028 | U | 0.028 | 0.20 | ***0.10*** |
| 108-86-1 | Bromobenzene | 04/08/2025 | 10:59 | 0.016 | U | 0.016 | 0.10 | ***0.050*** |
| 74-97-5 | Bromochloromethane | 04/08/2025 | 10:59 | 0.031 | U | 0.031 | 0.20 | ***0.10*** |
| 75-27-4 | Bromodichloromethane | 04/08/2025 | 10:59 | 0.023 | U | 0.023 | 0.10 | ***0.050*** |
| 75-25-2 | Bromoform | 04/08/2025 | 10:59 | 0.015 | U | 0.015 | 0.10 | ***0.050*** |
| 74-83-9 | Bromomethane | 04/08/2025 | 10:59 | 0.090 | U | 0.090 | 0.40 | ***0.20*** |
| 75-15-0 | Carbon disulfide | 04/08/2025 | 10:59 | 0.059 | U | 0.059 | 0.40 | ***0.20*** |
| 56-23-5 | Carbon tetrachloride | 04/08/2025 | 10:59 | 0.028 | U | 0.028 | 0.20 | ***0.10*** |
| 108-90-7 | Chlorobenzene | 04/08/2025 | 10:59 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 75-00-3 | Chloroethane | 04/08/2025 | 10:59 | 0.085 | U | 0.085 | 0.40 | ***0.20*** |
| 67-66-3 | Chloroform | 04/08/2025 | 10:59 | 0.032 | U | 0.032 | 0.20 | ***0.10*** |
| 74-87-3 | Chloromethane | 04/08/2025 | 10:59 | 0.033 | U | 0.033 | 0.20 | ***0.10*** |
| 156-59-2 | cis-1,2-Dichloroethene | 04/08/2025 | 10:59 | 0.030 | U | 0.030 | 0.20 | ***0.10*** |
| 10061-01-5 | cis-1,3-Dichloropropene | 04/08/2025 | 10:59 | 0.029 | U | 0.029 | 0.20 | ***0.10*** |
| 110-82-7 | Cyclohexane | 04/08/2025 | 10:59 | 0.031 | U | 0.031 | 0.20 | ***0.10*** |
| 124-48-1 | Dibromochloromethane | 04/08/2025 | 10:59 | 0.015 | U | 0.015 | 0.10 | ***0.050*** |
| 74-95-3 | Dibromomethane | 04/08/2025 | 10:59 | 0.022 | U | 0.022 | 0.10 | ***0.050*** |

CT LABORATORIES
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**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **CCB**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | (g/mL) | CTL Sample ID: | 1570300 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | (mL) | Date/Time Prepared: | / |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 0 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | / | |
| ICAL Calibration #: | PS032525 | Concentration Units: | mg/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 04/08/2025 | 10:59 | 0.031 | U | 0.031 | 0.20 | ***0.10*** |
| 100-41-4 | Ethylbenzene | 04/08/2025 | 10:59 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 98-82-8 | Isopropylbenzene | 04/08/2025 | 10:59 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 179601-23-1 | m & p-Xylene | 04/08/2025 | 10:59 | 0.025 | U | 0.025 | 0.20 | ***0.10*** |
| 1634-04-4 | Methyl tert-butyl ether | 04/08/2025 | 10:59 | 0.024 | U | 0.024 | 0.10 | ***0.050*** |
| 75-09-2 | Methylene chloride | 04/08/2025 | 10:59 | 0.042 | U | 0.042 | 0.20 | ***0.10*** |
| 91-20-3 | Naphthalene | 04/08/2025 | 10:59 | 0.014 | U | 0.014 | 0.10 | ***0.050*** |
| 104-51-8 | n-Butylbenzene | 04/08/2025 | 10:59 | 0.016 | U | 0.016 | 0.10 | ***0.050*** |
| 103-65-1 | n-Propylbenzene | 04/08/2025 | 10:59 | 0.016 | U | 0.016 | 0.10 | ***0.050*** |
| 95-47-6 | o-Xylene | 04/08/2025 | 10:59 | 0.013 | U | 0.013 | 0.10 | ***0.050*** |
| 99-87-6 | p-Isopropyltoluene | 04/08/2025 | 10:59 | 0.016 | U | 0.016 | 0.10 | ***0.050*** |
| 135-98-8 | sec-Butylbenzene | 04/08/2025 | 10:59 | 0.014 | U | 0.014 | 0.10 | ***0.050*** |
| 100-42-5 | Styrene | 04/08/2025 | 10:59 | 0.020 | U | 0.020 | 0.10 | ***0.050*** |
| 98-06-6 | tert-Butylbenzene | 04/08/2025 | 10:59 | 0.017 | U | 0.017 | 0.10 | ***0.050*** |
| 127-18-4 | Tetrachloroethene | 04/08/2025 | 10:59 | 0.034 | U | 0.034 | 0.20 | ***0.10*** |
| 109-99-9 | Tetrahydrofuran | 04/08/2025 | 10:59 | 0.80 | U | 0.80 | 2.4 | ***1.2*** |
| 108-88-3 | Toluene | 04/08/2025 | 10:59 | 0.028 | U | 0.028 | 0.20 | ***0.10*** |
| 156-60-5 | trans-1,2-Dichloroethene | 04/08/2025 | 10:59 | 0.029 | U | 0.029 | 0.20 | ***0.10*** |
| 10061-02-6 | trans-1,3-Dichloropropene | 04/08/2025 | 10:59 | 0.026 | U | 0.026 | 0.20 | ***0.10*** |
| 79-01-6 | Trichloroethene | 04/08/2025 | 10:59 | 0.030 | U | 0.030 | 0.20 | ***0.10*** |
| 75-69-4 | Trichlorofluoromethane | 04/08/2025 | 10:59 | 0.030 | U | 0.030 | 0.20 | ***0.10*** |
| 108-05-4 | Vinyl acetate | 04/08/2025 | 10:59 | 0.21 | U | 0.21 | 1.0 | ***0.50*** |
| 75-01-4 | Vinyl chloride | 04/08/2025 | 10:59 | 0.030 | U | 0.030 | 0.20 | ***0.10*** |

CT LABORATORIES
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**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | 5.00 (g/mL) | CTL Sample ID: | 1569822 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | PS032525 | Concentration Units: | ug/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 04/07/2025 | 11:32 | 17 | U | 17 | 100 | ***50*** |
| 71-55-6 | 1,1,1-Trichloroethane | 04/07/2025 | 11:32 | 30 | U | 30 | 200 | ***100*** |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 04/07/2025 | 11:32 | 25 | U | 25 | 100 | ***50*** |
| 79-00-5 | 1,1,2-Trichloroethane | 04/07/2025 | 11:32 | 27 | U | 27 | 200 | ***100*** |
| 75-34-3 | 1,1-Dichloroethane | 04/07/2025 | 11:32 | 27 | U | 27 | 200 | ***100*** |
| 75-35-4 | 1,1-Dichloroethene | 04/07/2025 | 11:32 | 24 | U | 24 | 100 | ***50*** |
| 563-58-6 | 1,1-Dichloropropene | 04/07/2025 | 11:32 | 42 | U | 42 | 200 | ***100*** |
| 87-61-6 | 1,2,3-Trichlorobenzene | 04/07/2025 | 11:32 | 20 | U | 20 | 100 | ***50*** |
| 96-18-4 | 1,2,3-Trichloropropane | 04/07/2025 | 11:32 | 32 | U | 32 | 200 | ***100*** |
| 120-82-1 | 1,2,4-Trichlorobenzene | 04/07/2025 | 11:32 | 13 | U | 13 | 100 | ***50*** |
| 95-63-6 | 1,2,4-Trimethylbenzene | 04/07/2025 | 11:32 | 20 | U | 20 | 100 | ***50*** |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 04/07/2025 | 11:32 | 15 | U | 15 | 100 | ***50*** |
| 106-93-4 | 1,2-Dibromoethane | 04/07/2025 | 11:32 | 18 | U | 18 | 100 | ***50*** |
| 95-50-1 | 1,2-Dichlorobenzene | 04/07/2025 | 11:32 | 15 | U | 15 | 100 | ***50*** |
| 107-06-2 | 1,2-Dichloroethane | 04/07/2025 | 11:32 | 22 | U | 22 | 100 | ***50*** |
| 78-87-5 | 1,2-Dichloropropane | 04/07/2025 | 11:32 | 26 | U | 26 | 200 | ***100*** |
| 108-67-8 | 1,3,5-Trimethylbenzene | 04/07/2025 | 11:32 | 13 | U | 13 | 100 | ***50*** |
| 541-73-1 | 1,3-Dichlorobenzene | 04/07/2025 | 11:32 | 14 | U | 14 | 100 | ***50*** |
| 142-28-9 | 1,3-Dichloropropane | 04/07/2025 | 11:32 | 27 | U | 27 | 200 | ***100*** |
| 106-46-7 | 1,4-Dichlorobenzene | 04/07/2025 | 11:32 | 15 | U | 15 | 100 | ***50*** |
| 594-20-7 | 2,2-Dichloropropane | 04/07/2025 | 11:32 | 30 | U | 30 | 200 | ***100*** |
| 78-93-3 | 2-Butanone | 04/07/2025 | 11:32 | 280 | U | 280 | 2000 | ***1000*** |
| 95-49-8 | 2-Chlorotoluene | 04/07/2025 | 11:32 | 16 | U | 16 | 100 | ***50*** |

CT LABORATORIES
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**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | 5.00 (g/mL) | CTL Sample ID: | 1569822 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | / | |
| ICAL Calibration #: | PS032525 | Concentration Units: | ug/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 591-78-6 | 2-Hexanone | 04/07/2025 | 11:32 | 150 | U | 150 | 1000 | ***500*** |
| 106-43-4 | 4-Chlorotoluene | 04/07/2025 | 11:32 | 13 | U | 13 | 100 | ***50*** |
| 108-10-1 | 4-Methyl-2-pentanone | 04/07/2025 | 11:32 | 300 | U | 300 | 2000 | ***1000*** |
| 67-64-1 | Acetone | 04/07/2025 | 11:32 | 250 | U | 250 | 1000 | ***500*** |
| 107-02-8 | Acrolein | 04/07/2025 | 11:32 | 160 | U | 160 | 1000 | ***500*** |
| 107-13-1 | Acrylonitrile | 04/07/2025 | 11:32 | 140 | U | 140 | 1000 | ***500*** |
| 71-43-2 | Benzene | 04/07/2025 | 11:32 | 28 | U | 28 | 200 | ***100*** |
| 108-86-1 | Bromobenzene | 04/07/2025 | 11:32 | 15 | U | 15 | 100 | ***50*** |
| 74-97-5 | Bromochloromethane | 04/07/2025 | 11:32 | 31 | U | 31 | 200 | ***100*** |
| 75-27-4 | Bromodichloromethane | 04/07/2025 | 11:32 | 23 | U | 23 | 100 | ***50*** |
| 75-25-2 | Bromoform | 04/07/2025 | 11:32 | 15 | U | 15 | 100 | ***50*** |
| 74-83-9 | Bromomethane | 04/07/2025 | 11:32 | 90 | U | 90 | 400 | ***200*** |
| 75-15-0 | Carbon disulfide | 04/07/2025 | 11:32 | 59 | U | 59 | 400 | ***200*** |
| 56-23-5 | Carbon tetrachloride | 04/07/2025 | 11:32 | 28 | U | 28 | 200 | ***100*** |
| 108-90-7 | Chlorobenzene | 04/07/2025 | 11:32 | 13 | U | 13 | 100 | ***50*** |
| 75-00-3 | Chloroethane | 04/07/2025 | 11:32 | 85 | U | 85 | 400 | ***200*** |
| 67-66-3 | Chloroform | 04/07/2025 | 11:32 | 32 | U | 32 | 200 | ***100*** |
| 74-87-3 | Chloromethane | 04/07/2025 | 11:32 | 33 | U | 33 | 200 | ***100*** |
| 156-59-2 | cis-1,2-Dichloroethene | 04/07/2025 | 11:32 | 30 | U | 30 | 200 | ***100*** |
| 10061-01-5 | cis-1,3-Dichloropropene | 04/07/2025 | 11:32 | 29 | U | 29 | 200 | ***100*** |
| 110-82-7 | Cyclohexane | 04/07/2025 | 11:32 | 31 | U | 31 | 200 | ***100*** |
| 124-48-1 | Dibromochloromethane | 04/07/2025 | 11:32 | 15 | U | 15 | 100 | ***50*** |
| 74-95-3 | Dibromomethane | 04/07/2025 | 11:32 | 22 | U | 22 | 100 | ***50*** |

CT LABORATORIES
delivering more than data from your environmental analyses

**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | 5.00 (g/mL) | CTL Sample ID: | 1569822 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/07/2025 / 08:50 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138291 |
| Analytical Run #: | 290598 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | PS032525 | Concentration Units: | ug/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 04/07/2025 | 11:32 | 31 | U | 31 | 200 | ***100*** |
| 100-41-4 | Ethylbenzene | 04/07/2025 | 11:32 | 13 | U | 13 | 100 | ***50*** |
| 98-82-8 | Isopropylbenzene | 04/07/2025 | 11:32 | 13 | U | 13 | 100 | ***50*** |
| 179601-23-1 | m & p-Xylene | 04/07/2025 | 11:32 | 25 | U | 25 | 200 | ***100*** |
| 1634-04-4 | Methyl tert-butyl ether | 04/07/2025 | 11:32 | 24 | U | 24 | 100 | ***50*** |
| 75-09-2 | Methylene chloride | 04/07/2025 | 11:32 | 42 | U | 42 | 200 | ***100*** |
| 91-20-3 | Naphthalene | 04/07/2025 | 11:32 | 14 | U | 14 | 100 | ***50*** |
| 104-51-8 | n-Butylbenzene | 04/07/2025 | 11:32 | 16 | U | 16 | 100 | ***50*** |
| 103-65-1 | n-Propylbenzene | 04/07/2025 | 11:32 | 16 | U | 16 | 100 | ***50*** |
| 95-47-6 | o-Xylene | 04/07/2025 | 11:32 | 13 | U | 13 | 100 | ***50*** |
| 99-87-6 | p-Isopropyltoluene | 04/07/2025 | 11:32 | 16 | U | 16 | 100 | ***50*** |
| 135-98-8 | sec-Butylbenzene | 04/07/2025 | 11:32 | 14 | U | 14 | 100 | ***50*** |
| 100-42-5 | Styrene | 04/07/2025 | 11:32 | 20 | U | 20 | 100 | ***50*** |
| 98-06-6 | tert-Butylbenzene | 04/07/2025 | 11:32 | 17 | U | 17 | 100 | ***50*** |
| 127-18-4 | Tetrachloroethene | 04/07/2025 | 11:32 | 34 | U | 34 | 200 | ***100*** |
| 109-99-9 | Tetrahydrofuran | 04/07/2025 | 11:32 | 800 | U | 800 | 2400 | ***1200*** |
| 108-88-3 | Toluene | 04/07/2025 | 11:32 | 28 | U | 28 | 200 | ***100*** |
| 156-60-5 | trans-1,2-Dichloroethene | 04/07/2025 | 11:32 | 29 | U | 29 | 200 | ***100*** |
| 10061-02-6 | trans-1,3-Dichloropropene | 04/07/2025 | 11:32 | 26 | U | 26 | 200 | ***100*** |
| 79-01-6 | Trichloroethene | 04/07/2025 | 11:32 | 30 | U | 30 | 200 | ***100*** |
| 75-69-4 | Trichlorofluoromethane | 04/07/2025 | 11:32 | 30 | U | 30 | 200 | ***100*** |
| 108-05-4 | Vinyl acetate | 04/07/2025 | 11:32 | 210 | U | 210 | 1000 | ***500*** |
| 75-01-4 | Vinyl chloride | 04/07/2025 | 11:32 | 30 | U | 30 | 200 | ***100*** |

CT LABORATORIES
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**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | 5.00 (g/mL) | CTL Sample ID: | 1569340 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | LS041025 | Concentration Units: | ug/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 71-55-6 | 1,1,1-Trichloroethane | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 04/11/2025 | 09:46 | 0.5 | U | 0.5 | 2.0 | ***1.0*** |
| 79-00-5 | 1,1,2-Trichloroethane | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 75-34-3 | 1,1-Dichloroethane | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 75-35-4 | 1,1-Dichloroethene | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 563-58-6 | 1,1-Dichloropropene | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 87-61-6 | 1,2,3-Trichlorobenzene | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 96-18-4 | 1,2,3-Trichloropropane | 04/11/2025 | 09:46 | 0.6 | U | 0.6 | 2.1 | ***1.0*** |
| 120-82-1 | 1,2,4-Trichlorobenzene | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 95-63-6 | 1,2,4-Trimethylbenzene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 106-93-4 | 1,2-Dibromoethane | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 95-50-1 | 1,2-Dichlorobenzene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 107-06-2 | 1,2-Dichloroethane | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 78-87-5 | 1,2-Dichloropropane | 04/11/2025 | 09:46 | 0.5 | U | 0.5 | 2.0 | ***1.0*** |
| 108-67-8 | 1,3,5-Trimethylbenzene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 541-73-1 | 1,3-Dichlorobenzene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 142-28-9 | 1,3-Dichloropropane | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 106-46-7 | 1,4-Dichlorobenzene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 594-20-7 | 2,2-Dichloropropane | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 78-93-3 | 2-Butanone | 04/11/2025 | 09:46 | 3.0 | U | 3.0 | 20 | ***10*** |
| 95-49-8 | 2-Chlorotoluene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |

CT LABORATORIES
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**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | 5.00 (g/mL) | CTL Sample ID: | 1569340 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | LS041025 | Concentration Units: | ug/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 591-78-6 | 2-Hexanone | 04/11/2025 | 09:46 | 3.4 | U | 3.4 | 20 | ***10*** |
| 106-43-4 | 4-Chlorotoluene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 108-10-1 | 4-Methyl-2-pentanone | 04/11/2025 | 09:46 | 3.3 | U | 3.3 | 20 | ***10*** |
| 67-64-1 | Acetone | 04/11/2025 | 09:46 | 15 | U | 15 | 45 | ***22*** |
| 107-02-8 | Acrolein | 04/11/2025 | 09:46 | 1.3 | U | 1.3 | 10 | ***5.0*** |
| 107-13-1 | Acrylonitrile | 04/11/2025 | 09:46 | 1.5 | U | 1.5 | 10 | ***5.0*** |
| 71-43-2 | Benzene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 108-86-1 | Bromobenzene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 74-97-5 | Bromochloromethane | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 75-27-4 | Bromodichloromethane | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 75-25-2 | Bromoform | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 74-83-9 | Bromomethane | 04/11/2025 | 09:46 | 1.2 | U | 1.2 | 4.1 | ***2.0*** |
| 75-15-0 | Carbon disulfide | 04/11/2025 | 09:46 | 0.8 | U | 0.8 | 4.0 | ***2.0*** |
| 56-23-5 | Carbon tetrachloride | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 108-90-7 | Chlorobenzene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 75-00-3 | Chloroethane | 04/11/2025 | 09:46 | 0.6 | U | 0.6 | 2.1 | ***1.0*** |
| 67-66-3 | Chloroform | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 74-87-3 | Chloromethane | 04/11/2025 | 09:46 | 0.7 | U | 0.7 | 2.1 | ***1.0*** |
| 156-59-2 | cis-1,2-Dichloroethene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 10061-01-5 | cis-1,3-Dichloropropene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 110-82-7 | Cyclohexane | 04/11/2025 | 09:46 | 0.6 | U | 0.6 | 2.1 | ***1.0*** |
| 124-48-1 | Dibromochloromethane | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 74-95-3 | Dibromomethane | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |

CT LABORATORIES
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**1A-2**

***VOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | 5.00 (g/mL) | CTL Sample ID: | 1569340 |
| % Solids: | | Date Received: | 04/04/2025 |
| Soil Extract Vol: | 5.0 (mL) | Date/Time Prepared: | 04/10/2025 / 11:55 |
| Analytical Method: | EPA 8260C | Analytical Prep Batch #: | 138271 |
| Analytical Run #: | 290584 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | / | |
| ICAL Calibration #: | LS041025 | Concentration Units: | ug/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 04/11/2025 | 09:46 | 0.5 | U | 0.5 | 2.0 | ***1.0*** |
| 100-41-4 | Ethylbenzene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 98-82-8 | Isopropylbenzene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 179601-23-1 | m & p-Xylene | 04/11/2025 | 09:46 | 0.6 | U | 0.6 | 4.0 | ***2.0*** |
| 1634-04-4 | Methyl tert-butyl ether | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 75-09-2 | Methylene chloride | 04/11/2025 | 09:46 | 1.5 | U | 1.5 | 8.0 | ***4.0*** |
| 91-20-3 | Naphthalene | 04/11/2025 | 09:46 | 0.5 | U | 0.5 | 2.0 | ***1.0*** |
| 104-51-8 | n-Butylbenzene | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 103-65-1 | n-Propylbenzene | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 95-47-6 | o-Xylene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 99-87-6 | p-Isopropyltoluene | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 135-98-8 | sec-Butylbenzene | 04/11/2025 | 09:46 | 0.5 | U | 0.5 | 2.0 | ***1.0*** |
| 100-42-5 | Styrene | 04/11/2025 | 09:46 | 0.5 | U | 0.5 | 2.0 | ***1.0*** |
| 98-06-6 | tert-Butylbenzene | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |
| 127-18-4 | Tetrachloroethene | 04/11/2025 | 09:46 | 0.5 | U | 0.5 | 2.0 | ***1.0*** |
| 109-99-9 | Tetrahydrofuran | 04/11/2025 | 09:46 | 5.0 | U | 5.0 | 20 | ***10*** |
| 108-88-3 | Toluene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 156-60-5 | trans-1,2-Dichloroethene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 10061-02-6 | trans-1,3-Dichloropropene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 79-01-6 | Trichloroethene | 04/11/2025 | 09:46 | 0.3 | U | 0.3 | 2.0 | ***1.0*** |
| 75-69-4 | Trichlorofluoromethane | 04/11/2025 | 09:46 | 0.6 | U | 0.6 | 2.1 | ***1.0*** |
| 108-05-4 | Vinyl acetate | 04/11/2025 | 09:46 | 3.0 | U | 3.0 | 20 | ***10*** |
| 75-01-4 | Vinyl chloride | 04/11/2025 | 09:46 | 0.4 | U | 0.4 | 2.0 | ***1.0*** |

CT LABORATORIES
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**2A**

***WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Analytical Method: EPA 8260C | SDG: 194024

Analytical Run #: 290576 | ICAL Calibration #: LW041325

| CTLab # | 1568824 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 100 | 81 | 118 | |
| Bromofluorobenzene | 100 | 101 | 85 | 114 | |
| d8-Toluene | 100 | 100 | 89 | 112 | |
| Dibromofluoromethane | 100 | 97.0 | 80 | 119 | |

| CTLab # | 1568827 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 98.0 | 81 | 118 | |
| Bromofluorobenzene | 100 | 100 | 85 | 114 | |
| d8-Toluene | 100 | 101 | 89 | 112 | |
| Dibromofluoromethane | 100 | 99.0 | 80 | 119 | |

| CTLab # | 1572493 | Sample Type: | Lab Control Spike | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 96.0 | 81 | 118 | |
| Bromofluorobenzene | 100 | 100 | 85 | 114 | |
| d8-Toluene | 100 | 99.0 | 89 | 112 | |
| Dibromofluoromethane | 100 | 99.0 | 80 | 119 | |

| CTLab # | 1572497 | Sample Type: | Continuing Calibration Verification | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 96.0 | 80 | 120 | |
| Bromofluorobenzene | 100 | 100 | 80 | 120 | |
| d8-Toluene | 100 | 99.0 | 80 | 120 | |
| Dibromofluoromethane | 100 | 99.0 | 80 | 120 | |

| CTLab # | 1572498 | Sample Type: | Method Blank | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 102 | 70 | 120 | |
| Bromofluorobenzene | 100 | 101 | 75 | 120 | |
| d8-Toluene | 100 | 102 | 85 | 120 | |
| Dibromofluoromethane | 100 | 100 | 85 | 115 | |

| CTLab # | 1572515 | Sample Type: | Lab Control Spike Duplicate | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 101 | 81 | 118 | |
| Bromofluorobenzene | 100 | 99.0 | 85 | 114 | |
| d8-Toluene | 100 | 102 | 89 | 112 | |
| Dibromofluoromethane | 100 | 100 | 80 | 119 | |

CT LABORATORIES
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**2A**

***WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Analytical Method: | EPA 8260C | SDG: | 194024 |
| Analytical Run #: | 290576 | ICAL Calibration #: | LW041325 |

| CTLab # | 1572950 | Sample Type: | Continuing Calibration Verification | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 100 | 50 | 150 | |
| Bromofluorobenzene | 100 | 99.0 | 50 | 150 | |
| d8-Toluene | 100 | 101 | 50 | 150 | |
| Dibromofluoromethane | 100 | 98.0 | 50 | 150 | |

CT LABORATORIES
delivering more than data from your environmental analyses

**2B**

***SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Analytical Method: EPA 8260C | SDG: 194024

Analytical Run #: 290584 | ICAL Calibration #: LS041025

| CTLab # | 1568820 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 115 | 70 | 130 | |
| Bromofluorobenzene | 100 | 110 | 85 | 120 | |
| d8-Toluene | 100 | 95.0 | 85 | 115 | |
| Dibromofluoromethane | 100 | 100 | 70 | 130 | |
| **CTLab #** | **1568822** | | | | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 105 | 70 | 130 | |
| Bromofluorobenzene | 100 | 115 | 85 | 120 | |
| d8-Toluene | 100 | 95.0 | 85 | 115 | |
| Dibromofluoromethane | 100 | 100 | 70 | 130 | |
| **CTLab #** | **1568823** | | | | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 115 | 70 | 130 | |
| Bromofluorobenzene | 100 | 105 | 85 | 120 | |
| d8-Toluene | 100 | 95.0 | 85 | 115 | |
| Dibromofluoromethane | 100 | 100 | 70 | 130 | |
| **CTLab #** | **1568828** | | | | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 105 | 70 | 130 | |
| Bromofluorobenzene | 100 | 115 | 85 | 120 | |
| d8-Toluene | 100 | 95.0 | 85 | 115 | |
| Dibromofluoromethane | 100 | 95.0 | 70 | 130 | |
| **CTLab #** | **1568830** | | | | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 110 | 70 | 130 | |
| Bromofluorobenzene | 100 | 110 | 85 | 120 | |
| d8-Toluene | 100 | 95.0 | 85 | 115 | |
| Dibromofluoromethane | 100 | 95.0 | 70 | 130 | |
| **CTLab #** | **1568846** | | | | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 105 | 70 | 130 | |
| Bromofluorobenzene | 100 | 115 | 85 | 120 | |
| d8-Toluene | 100 | 95.0 | 85 | 115 | |
| Dibromofluoromethane | 100 | 100 | 70 | 130 | |

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**2B**

***SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Analytical Method: EPA 8260C | SDG: 194024

Analytical Run #: 290584 | ICAL Calibration #: LS041025

| CTLab # | 1569338 | Sample Type: | | Matrix Spike | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 115 | 71 | 136 | |
| Bromofluorobenzene | 100 | 120 | 79 | 119 | FAIL (S) |
| d8-Toluene | 100 | 95.0 | 85 | 116 | |
| Dibromofluoromethane | 100 | 105 | 78 | 119 | |
| **CTLab #** | **1569339** | Sample Type: | | Matrix Spike Duplicate | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 105 | 71 | 136 | |
| Bromofluorobenzene | 100 | 115 | 79 | 119 | |
| d8-Toluene | 100 | 95.0 | 85 | 116 | |
| Dibromofluoromethane | 100 | 100 | 78 | 119 | |
| **CTLab #** | **1569340** | Sample Type: | | Method Blank | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 100 | 71 | 136 | |
| Bromofluorobenzene | 100 | 100 | 79 | 119 | |
| d8-Toluene | 100 | 95.0 | 85 | 116 | |
| Dibromofluoromethane | 100 | 95.0 | 78 | 119 | |
| **CTLab #** | **1569341** | Sample Type: | | Lab Control Spike | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 95.0 | 71 | 136 | |
| Bromofluorobenzene | 100 | 100 | 79 | 119 | |
| d8-Toluene | 100 | 100 | 85 | 116 | |
| Dibromofluoromethane | 100 | 95.0 | 78 | 119 | |
| **CTLab #** | **1571905** | Sample Type: | | Continuing Calibration Verification | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 100 | 80 | 120 | |
| Bromofluorobenzene | 100 | 100 | 80 | 120 | |
| d8-Toluene | 100 | 95.0 | 80 | 120 | |
| Dibromofluoromethane | 100 | 95.0 | 80 | 120 | |
| **CTLab #** | **1572388** | Sample Type: | | Continuing Calibration Verification | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 105 | 50 | 150 | |
| Bromofluorobenzene | 100 | 95.0 | 50 | 150 | |
| d8-Toluene | 100 | 95.0 | 50 | 150 | |
| Dibromofluoromethane | 100 | 100 | 50 | 150 | |

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**2B**

***SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Analytical Method: EPA 8260C | SDG: 194024

Analytical Run #: 290598 | ICAL Calibration #: PS032525

| CTLab # | 1568820 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 97.0 | 71 | 136 | |
| Bromofluorobenzene | 100 | 97.0 | 79 | 119 | |
| d8-Toluene | 100 | 101 | 85 | 116 | |
| Dibromofluoromethane | 100 | 107 | 78 | 119 | |

| CTLab # | 1568821 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 98.0 | 71 | 136 | |
| Bromofluorobenzene | 100 | 98.0 | 79 | 119 | |
| d8-Toluene | 100 | 100 | 85 | 116 | |
| Dibromofluoromethane | 100 | 104 | 78 | 119 | |

| CTLab # | 1568822 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 97.0 | 71 | 136 | |
| Bromofluorobenzene | 100 | 99.0 | 79 | 119 | |
| d8-Toluene | 100 | 101 | 85 | 116 | |
| Dibromofluoromethane | 100 | 104 | 78 | 119 | |

| CTLab # | 1568823 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 100 | 71 | 136 | |
| Bromofluorobenzene | 100 | 98.0 | 79 | 119 | |
| d8-Toluene | 100 | 101 | 85 | 116 | |
| Dibromofluoromethane | 100 | 103 | 78 | 119 | |

| CTLab # | 1568828 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 98.0 | 71 | 136 | |
| Bromofluorobenzene | 100 | 100 | 79 | 119 | |
| d8-Toluene | 100 | 100 | 85 | 116 | |
| Dibromofluoromethane | 100 | 107 | 78 | 119 | |

| CTLab # | 1568830 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 96.0 | 71 | 136 | |
| Bromofluorobenzene | 100 | 99.0 | 79 | 119 | |
| d8-Toluene | 100 | 101 | 85 | 116 | |
| Dibromofluoromethane | 100 | 107 | 78 | 119 | |

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**2B**

***SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Analytical Method: | EPA 8260C | SDG: | 194024 |
| Analytical Run #: | 290598 | ICAL Calibration #: | PS032525 |

| CTLab # | 1568846 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 96.0 | 71 | 136 | |
| Bromofluorobenzene | 100 | 99.0 | 79 | 119 | |
| d8-Toluene | 100 | 100 | 85 | 116 | |
| Dibromofluoromethane | 100 | 105 | 78 | 119 | |
| **CTLab #** | **1569820** | Sample Type: | | Matrix Spike | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 97.0 | 71 | 136 | |
| Bromofluorobenzene | 100 | 74.0 | 79 | 119 | FAIL (S) |
| d8-Toluene | 100 | 103 | 85 | 116 | |
| Dibromofluoromethane | 100 | 107 | 78 | 119 | |
| **CTLab #** | **1569821** | Sample Type: | | Matrix Spike Duplicate | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 95.0 | 71 | 136 | |
| Bromofluorobenzene | 100 | 104 | 79 | 119 | |
| d8-Toluene | 100 | 89.0 | 85 | 116 | |
| Dibromofluoromethane | 100 | 94.0 | 78 | 119 | |
| **CTLab #** | **1569822** | Sample Type: | | Method Blank | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 98.0 | 71 | 136 | |
| Bromofluorobenzene | 100 | 100 | 79 | 119 | |
| d8-Toluene | 100 | 99.0 | 85 | 116 | |
| Dibromofluoromethane | 100 | 106 | 78 | 119 | |
| **CTLab #** | **1569823** | Sample Type: | | Lab Control Spike | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 100 | 71 | 136 | |
| Bromofluorobenzene | 100 | 100 | 79 | 119 | |
| d8-Toluene | 100 | 101 | 85 | 116 | |
| Dibromofluoromethane | 100 | 102 | 78 | 119 | |
| **CTLab #** | **1569895** | Sample Type: | | Continuing Calibration Verification | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 108 | 80 | 120 | |
| Bromofluorobenzene | 100 | 108 | 80 | 120 | |
| d8-Toluene | 100 | 108 | 80 | 120 | |
| Dibromofluoromethane | 100 | 115 | 80 | 120 | |

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**2B**

***SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Analytical Method: | EPA 8260C | SDG: | 194024 |
| Analytical Run #: | 290598 | ICAL Calibration #: | PS032525 |

| CTLab # | 1570299 | Sample Type: | | Continuing Calibration Verification | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 103 | 80 | 120 | |
| Bromofluorobenzene | 100 | 102 | 80 | 120 | |
| d8-Toluene | 100 | 103 | 80 | 120 | |
| Dibromofluoromethane | 100 | 105 | 80 | 120 | |
| **CTLab #** | **1570300** | Sample Type: | | Normal Field Sample | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 97.0 | 71 | 136 | |
| Bromofluorobenzene | 100 | 101 | 79 | 119 | |
| d8-Toluene | 100 | 103 | 85 | 116 | |
| Dibromofluoromethane | 100 | 106 | 78 | 119 | |
| **CTLab #** | **1570637** | Sample Type: | | Continuing Calibration Verification | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 97.0 | 50 | 150 | |
| Bromofluorobenzene | 100 | 103 | 50 | 150 | |
| d8-Toluene | 100 | 96.0 | 50 | 150 | |
| Dibromofluoromethane | 100 | 107 | 50 | 150 | |
| **CTLab #** | **1571425** | Sample Type: | | Continuing Calibration Verification | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| 1,2 Dichloroethane-d4 | 100 | 98.0 | 50 | 150 | |
| Bromofluorobenzene | 100 | 98.0 | 50 | 150 | |
| d8-Toluene | 100 | 105 | 50 | 150 | |
| Dibromofluoromethane | 100 | 104 | 50 | 150 | |

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**3A**

***WATER VOLATILE LAB CONTROL SAMPLE***

Sample Description: **LCS**

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1572493
SDG No.: 194024
Analytical Method: EPA 8260C
Concentration Units: ug/L

Sample No.: 1572493
Parent Sample No.: 0
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
Analytical Run #: 290576
ICAL Calibration #: LW041325

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 04/14/2025 | 08:32 | 78-124 | 3.93 | | 4.0 | 98 |
| 1,1,1-Trichloroethane | 04/14/2025 | 08:32 | 74-131 | 4.09 | | 4.0 | 102 |
| 1,1,2,2-Tetrachloroethane | 04/14/2025 | 08:32 | 71-121 | 3.83 | | 4.0 | 96 |
| 1,1,2-Trichloroethane | 04/14/2025 | 08:32 | 80-119 | 3.82 | | 4.0 | 96 |
| 1,1-Dichloroethane | 04/14/2025 | 08:32 | 77-125 | 3.99 | | 4.0 | 100 |
| 1,1-Dichloroethene | 04/14/2025 | 08:32 | 71-131 | 4.05 | | 4.0 | 101 |
| 1,1-Dichloropropene | 04/14/2025 | 08:32 | 79-125 | 4.18 | | 4.0 | 104 |
| 1,2,3-Trichlorobenzene | 04/14/2025 | 08:32 | 69-129 | 3.80 | | 4.0 | 95 |
| 1,2,3-Trichloropropane | 04/14/2025 | 08:32 | 73-122 | 3.71 | | 4.0 | 93 |
| 1,2,4-Trichlorobenzene | 04/14/2025 | 08:32 | 69-130 | 3.90 | | 4.0 | 98 |
| 1,2,4-Trimethylbenzene | 04/14/2025 | 08:32 | 76-124 | 4.07 | | 4.0 | 102 |
| 1,2-Dibromo-3-chloropropane | 04/14/2025 | 08:32 | 62-128 | 3.62 | | 4.0 | 90 |
| 1,2-Dibromoethane | 04/14/2025 | 08:32 | 77-121 | 3.73 | | 4.0 | 93 |
| 1,2-Dichlorobenzene | 04/14/2025 | 08:32 | 80-119 | 3.87 | | 4.0 | 97 |
| 1,2-Dichloroethane | 04/14/2025 | 08:32 | 73-128 | 3.62 | | 4.0 | 90 |
| 1,2-Dichloropropane | 04/14/2025 | 08:32 | 78-122 | 3.82 | | 4.0 | 96 |
| 1,3,5-Trimethylbenzene | 04/14/2025 | 08:32 | 75-124 | 4.08 | | 4.0 | 102 |
| 1,3-Dichlorobenzene | 04/14/2025 | 08:32 | 80-119 | 3.97 | | 4.0 | 99 |
| 1,3-Dichloropropane | 04/14/2025 | 08:32 | 80-119 | 3.69 | | 4.0 | 92 |
| 1,4-Dichlorobenzene | 04/14/2025 | 08:32 | 79-118 | 3.92 | | 4.0 | 98 |
| 2,2-Dichloropropane | 04/14/2025 | 08:32 | 60-139 | 4.17 | | 4.0 | 104 |
| 2-Butanone | 04/14/2025 | 08:32 | 56-143 | 36.6 | | 40.0 | 92 |
| 2-Chlorotoluene | 04/14/2025 | 08:32 | 79-122 | 4.00 | | 4.0 | 100 |
| 2-Hexanone | 04/14/2025 | 08:32 | 57-139 | 34.9 | | 40.0 | 87 |
| 4-Chlorotoluene | 04/14/2025 | 08:32 | 78-122 | 3.96 | | 4.0 | 99 |
| 4-Methyl-2-pentanone | 04/14/2025 | 08:32 | 67-130 | 35.7 | | 40.0 | 89 |
| Acetone | 04/14/2025 | 08:32 | 39-160 | 33.7 | | 40.0 | 84 |
| Acrylonitrile | 04/14/2025 | 08:32 | 63-135 | 19.0 | | 20.0 | 95 |

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**3A**

***WATER VOLATILE LAB CONTROL SAMPLE***

Sample Description: **LCS**

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1572493
SDG No.: 194024
Analytical Method: EPA 8260C
Concentration Units: ug/L

Sample No.: 1572493
Parent Sample No.: 0
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
Analytical Run #: 290576
ICAL Calibration #: LW041325

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| Benzene | 04/14/2025 | 08:32 | 79-120 | 3.91 | | 4.0 | 98 |
| Bromobenzene | 04/14/2025 | 08:32 | 80-120 | 3.94 | | 4.0 | 98 |
| Bromochloromethane | 04/14/2025 | 08:32 | 78-123 | 3.80 | | 4.0 | 95 |
| Bromodichloromethane | 04/14/2025 | 08:32 | 79-125 | 3.77 | | 4.0 | 94 |
| Bromoform | 04/14/2025 | 08:32 | 66-130 | 3.98 | | 4.0 | 100 |
| Bromomethane | 04/14/2025 | 08:32 | 53-141 | 3.99 | | 4.0 | 100 |
| Carbon disulfide | 04/14/2025 | 08:32 | 64-133 | 8.15 | | 8.0 | 102 |
| Carbon tetrachloride | 04/14/2025 | 08:32 | 72-136 | 4.14 | | 4.0 | 104 |
| Chlorobenzene | 04/14/2025 | 08:32 | 82-118 | 4.02 | | 4.0 | 100 |
| Chloroethane | 04/14/2025 | 08:32 | 60-138 | 3.71 | | 4.0 | 93 |
| Chloroform | 04/14/2025 | 08:32 | 79-124 | 3.79 | | 4.0 | 95 |
| Chloromethane | 04/14/2025 | 08:32 | 50-139 | 3.87 | | 4.0 | 97 |
| cis-1,2-Dichloroethene | 04/14/2025 | 08:32 | 78-123 | 3.87 | | 4.0 | 97 |
| cis-1,3-Dichloropropene | 04/14/2025 | 08:32 | 75-124 | 3.89 | | 4.0 | 97 |
| Cyclohexane | 04/14/2025 | 08:32 | 71-130 | 4.24 | | 4.0 | 106 |
| Dibromochloromethane | 04/14/2025 | 08:32 | 74-126 | 3.89 | | 4.0 | 97 |
| Dibromomethane | 04/14/2025 | 08:32 | 79-123 | 3.71 | | 4.0 | 93 |
| Dichlorodifluoromethane | 04/14/2025 | 08:32 | 32-152 | 4.34 | | 4.0 | 108 |
| Ethylbenzene | 04/14/2025 | 08:32 | 79-121 | 3.98 | | 4.0 | 100 |
| Isopropylbenzene | 04/14/2025 | 08:32 | 72-131 | 4.11 | | 4.0 | 103 |
| m & p-Xylene | 04/14/2025 | 08:32 | 80-121 | 8.15 | | 8.0 | 102 |
| Methyl tert-butyl ether | 04/14/2025 | 08:32 | 71-124 | 3.51 | | 4.0 | 88 |
| Methylene chloride | 04/14/2025 | 08:32 | 74-124 | 3.85 | | 4.0 | 96 |
| Naphthalene | 04/14/2025 | 08:32 | 61-128 | 3.60 | | 4.0 | 90 |
| n-Butylbenzene | 04/14/2025 | 08:32 | 75-128 | 4.08 | | 4.0 | 102 |
| n-Propylbenzene | 04/14/2025 | 08:32 | 76-126 | 4.15 | | 4.0 | 104 |
| o-Xylene | 04/14/2025 | 08:32 | 78-122 | 3.97 | | 4.0 | 99 |
| p-Isopropyltoluene | 04/14/2025 | 08:32 | 77-127 | 4.17 | | 4.0 | 104 |

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3A

Sample Description

LCS

***WATER VOLATILE LAB CONTROL SAMPLE***

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1572493
SDG No.: 194024
Analytical Method: EPA 8260C
Concentration Units: ug/L

Sample No.: 1572493
Parent Sample No.: 0
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
Analytical Run #: 290576
ICAL Calibration #: LW041325

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| sec-Butylbenzene | 04/14/2025 | 08:32 | 77-126 | 4.22 | | 4.0 | 106 |
| Styrene | 04/14/2025 | 08:32 | 78-123 | 4.02 | | 4.0 | 100 |
| tert-Butylbenzene | 04/14/2025 | 08:32 | 78-124 | 4.13 | | 4.0 | 103 |
| Tetrachloroethene | 04/14/2025 | 08:32 | 74-129 | 4.09 | | 4.0 | 102 |
| Tetrahydrofuran | 04/14/2025 | 08:32 | 57-133 | 33.5 | | 40.0 | 84 |
| Toluene | 04/14/2025 | 08:32 | 80-121 | 3.96 | | 4.0 | 99 |
| trans-1,2-Dichloroethene | 04/14/2025 | 08:32 | 75-124 | 3.92 | | 4.0 | 98 |
| trans-1,3-Dichloropropene | 04/14/2025 | 08:32 | 73-127 | 3.84 | | 4.0 | 96 |
| Trichloroethene | 04/14/2025 | 08:32 | 79-123 | 3.86 | | 4.0 | 96 |
| Trichlorofluoromethane | 04/14/2025 | 08:32 | 65-141 | 4.30 | | 4.0 | 108 |
| Vinyl acetate | 04/14/2025 | 08:32 | 54-146 | 37.4 | | 40.0 | 94 |
| Vinyl chloride | 04/14/2025 | 08:32 | 58-137 | 4.01 | | 4.0 | 100 |

Spike Recovery: 0 out of 68 outside limits

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**3B**

***SOIL VOLATILE MATRIX SPIKE RECOVERY***

Sample Description

**SB-113-0-DFW**

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 290584 | Sample No.: 1569338 | Parent Sample No.: 1568828

Analytical Prep Batch #: 138271 | Analytical Preparation Date/Time: 04/10/2025 11:55

ICAL Calibration #: LS041025

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 04/11/2025 | 14:35 | 78-125 | 13.9 | BDL | 13.5 | 103 | |
| 1,1,1-Trichloroethane | 04/11/2025 | 14:35 | 73-130 | 13.5 | BDL | 13.5 | 100 | |
| 1,1,2,2-Tetrachloroethane | 04/11/2025 | 14:35 | 70-124 | 22.6 | BDL | 13.5 | 167 | *FAIL* |
| 1,1,2-Trichloroethane | 04/11/2025 | 14:35 | 78-121 | 14.3 | BDL | 13.5 | 106 | |
| 1,1-Dichloroethane | 04/11/2025 | 14:35 | 76-125 | 13.7 | BDL | 13.5 | 101 | |
| 1,1-Dichloroethene | 04/11/2025 | 14:35 | 70-131 | 15.0 | BDL | 13.5 | 111 | |
| 1,1-Dichloropropene | 04/11/2025 | 14:35 | 76-125 | 13.4 | BDL | 13.5 | 99 | |
| 1,2,3-Trichlorobenzene | 04/11/2025 | 14:35 | 66-130 | 10.4 | BDL | 13.5 | 77 | |
| 1,2,3-Trichloropropane | 04/11/2025 | 14:35 | 73-125 | 23.4 | BDL | 13.5 | 173 | *FAIL* |
| 1,2,4-Trichlorobenzene | 04/11/2025 | 14:35 | 67-129 | 11.5 | BDL | 13.5 | 85 | |
| 1,2,4-Trimethylbenzene | 04/11/2025 | 14:35 | 75-123 | 19.3 | BDL | 13.5 | 143 | *FAIL* |
| 1,2-Dibromo-3-chloropropane | 04/11/2025 | 14:35 | 61-132 | 21.9 | BDL | 13.5 | 162 | *FAIL* |
| 1,2-Dibromoethane | 04/11/2025 | 14:35 | 78-122 | 17.0 | BDL | 13.5 | 126 | *FAIL* |
| 1,2-Dichlorobenzene | 04/11/2025 | 14:35 | 78-121 | 15.8 | BDL | 13.5 | 117 | |
| 1,2-Dichloroethane | 04/11/2025 | 14:35 | 73-128 | 13.8 | BDL | 13.5 | 102 | |
| 1,2-Dichloropropane | 04/11/2025 | 14:35 | 76-123 | 14.2 | BDL | 13.5 | 105 | |
| 1,3,5-Trimethylbenzene | 04/11/2025 | 14:35 | 73-124 | 18.4 | BDL | 13.5 | 136 | *FAIL* |
| 1,3-Dichlorobenzene | 04/11/2025 | 14:35 | 77-121 | 16.2 | BDL | 13.5 | 120 | |
| 1,3-Dichloropropane | 04/11/2025 | 14:35 | 77-121 | 14.5 | BDL | 13.5 | 107 | |
| 1,4-Dichlorobenzene | 04/11/2025 | 14:35 | 75-120 | 16.2 | BDL | 13.5 | 120 | |
| 2,2-Dichloropropane | 04/11/2025 | 14:35 | 67-133 | 14.1 | BDL | 13.5 | 104 | |
| 2-Butanone | 04/11/2025 | 14:35 | 51-148 | 212 | 23.3 | 135 | 140 | |
| 2-Chlorotoluene | 04/11/2025 | 14:35 | 75-122 | 18.0 | BDL | 13.5 | 133 | *FAIL* |
| 2-Hexanone | 04/11/2025 | 14:35 | 53-145 | 225 | BDL | 135 | 167 | *FAIL* |
| 4-Chlorotoluene | 04/11/2025 | 14:35 | 72-124 | 17.6 | BDL | 13.5 | 130 | *FAIL* |
| 4-Methyl-2-pentanone | 04/11/2025 | 14:35 | 65-135 | 205 | BDL | 135 | 152 | *FAIL* |
| Acetone | 04/11/2025 | 14:35 | 36-164 | 389 | 187 | 135 | 150 | |
| Acrolein | 04/11/2025 | 14:35 | 47-155 | 87.9 | BDL | 67.6 | 130 | |
| Acrylonitrile | 04/11/2025 | 14:35 | 65-134 | 99.4 | BDL | 67.6 | 147 | *FAIL* |
| Benzene | 04/11/2025 | 14:35 | 77-121 | 14.1 | 0.580 | 13.5 | 100 | |
| Bromobenzene | 04/11/2025 | 14:35 | 78-121 | 17.2 | BDL | 13.5 | 127 | *FAIL* |

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**3B**

***SOIL VOLATILE MATRIX SPIKE RECOVERY***

Sample Description: **SB-113-0-DFW**

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 290584 | Sample No.: 1569338 | Parent Sample No.: 1568828

Analytical Prep Batch #: 138271 | Analytical Preparation Date/Time: 04/10/2025 11:55

ICAL Calibration #: LS041025

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 04/11/2025 | 14:35 | 78-125 | 14.3 | BDL | 13.5 | 106 | |
| Bromodichloromethane | 04/11/2025 | 14:35 | 75-127 | 12.6 | BDL | 13.5 | 93 | |
| Bromoform | 04/11/2025 | 14:35 | 67-132 | 15.8 | BDL | 13.5 | 117 | |
| Bromomethane | 04/11/2025 | 14:35 | 53-143 | 14.5 | BDL | 13.5 | 107 | |
| Carbon disulfide | 04/11/2025 | 14:35 | 63-132 | 36.5 | 11.9 | 27.1 | 91 | |
| Carbon tetrachloride | 04/11/2025 | 14:35 | 70-135 | 13.5 | BDL | 13.5 | 100 | |
| Chlorobenzene | 04/11/2025 | 14:35 | 79-120 | 14.7 | BDL | 13.5 | 109 | |
| Chloroethane | 04/11/2025 | 14:35 | 59-139 | 17.0 | BDL | 13.5 | 126 | |
| Chloroform | 04/11/2025 | 14:35 | 78-123 | 13.0 | BDL | 13.5 | 96 | |
| Chloromethane | 04/11/2025 | 14:35 | 50-136 | 14.3 | BDL | 13.5 | 106 | |
| cis-1,2-Dichloroethene | 04/11/2025 | 14:35 | 77-123 | 15.4 | 3.62 | 13.5 | 87 | |
| cis-1,3-Dichloropropene | 04/11/2025 | 14:35 | 74-126 | 13.1 | BDL | 13.5 | 97 | |
| Cyclohexane | 04/11/2025 | 14:35 | 67-131 | 15.4 | 1.16 | 13.5 | 105 | |
| Dibromochloromethane | 04/11/2025 | 14:35 | 74-126 | 15.1 | BDL | 13.5 | 112 | |
| Dibromomethane | 04/11/2025 | 14:35 | 78-125 | 14.5 | BDL | 13.5 | 107 | |
| Dichlorodifluoromethane | 04/11/2025 | 14:35 | 29-149 | 15.0 | BDL | 13.5 | 111 | |
| Ethylbenzene | 04/11/2025 | 14:35 | 76-122 | 15.3 | BDL | 13.5 | 113 | |
| Isopropylbenzene | 04/11/2025 | 14:35 | 68-134 | 15.1 | BDL | 13.5 | 112 | |
| m & p-Xylene | 04/11/2025 | 14:35 | 77-124 | 31.4 | BDL | 27.1 | 116 | |
| Methyl tert-butyl ether | 04/11/2025 | 14:35 | 73-125 | 14.3 | BDL | 13.5 | 106 | |
| Methylene chloride | 04/11/2025 | 14:35 | 70-128 | 14.3 | BDL | 13.5 | 106 | |
| Naphthalene | 04/11/2025 | 14:35 | 62-129 | 11.9 | BDL | 13.5 | 88 | |
| n-Butylbenzene | 04/11/2025 | 14:35 | 70-128 | 18.1 | BDL | 13.5 | 134 | *FAIL* |
| n-Propylbenzene | 04/11/2025 | 14:35 | 73-125 | 19.3 | BDL | 13.5 | 143 | *FAIL* |
| o-Xylene | 04/11/2025 | 14:35 | 77-123 | 14.7 | BDL | 13.5 | 109 | |
| p-Isopropyltoluene | 04/11/2025 | 14:35 | 73-127 | 18.8 | BDL | 13.5 | 139 | *FAIL* |
| sec-Butylbenzene | 04/11/2025 | 14:35 | 73-126 | 18.9 | BDL | 13.5 | 140 | *FAIL* |
| Styrene | 04/11/2025 | 14:35 | 76-124 | 13.4 | BDL | 13.5 | 99 | |
| tert-Butylbenzene | 04/11/2025 | 14:35 | 73-125 | 18.0 | BDL | 13.5 | 133 | *FAIL* |
| Tetrachloroethene | 04/11/2025 | 14:35 | 73-128 | 41.8 | 60.9 | 13.5 | 0 | *FAIL* |
| Tetrahydrofuran | 04/11/2025 | 14:35 | 61-135 | 206 | BDL | 135 | 153 | *FAIL* |

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**3B**

***SOIL VOLATILE MATRIX SPIKE RECOVERY***

Sample Description

**SB-113-0-DFW**

Lab Name: CT Laboratories  Contract: HDR, INC-DDMT-DFW

Matrix: SOIL  SDG No.: 194024

Analytical Method: EPA 8260C  Concentration Units: ug/kg

Analytical Run #: 290584  Sample No.: 1569338  Parent Sample No.: 1568828

Analytical Prep Batch #: 138271  Analytical Preparation Date/Time: 04/10/2025 11:55

ICAL Calibration #: LS041025

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|---|
| Toluene | 04/11/2025 | 14:35 | 77-121 | 14.2 | 1.59 | 13.5 | 93 | |
| trans-1,2-Dichloroethene | 04/11/2025 | 14:35 | 74-125 | 13.9 | BDL | 13.5 | 103 | |
| trans-1,3-Dichloropropene | 04/11/2025 | 14:35 | 71-130 | 13.1 | BDL | 13.5 | 97 | |
| Trichloroethene | 04/11/2025 | 14:35 | 77-123 | 23.7 | 26.4 | 13.5 | 0 | *FAIL* |
| Trichlorofluoromethane | 04/11/2025 | 14:35 | 62-140 | 14.7 | BDL | 13.5 | 109 | |
| Vinyl acetate | 04/11/2025 | 14:35 | 50-151 | 174 | BDL | 135 | 129 | |
| Vinyl chloride | 04/11/2025 | 14:35 | 56-135 | 16.0 | BDL | 13.5 | 119 | |

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**3B**

***SOIL VOLATILE MATRIX SPIKE RECOVERY***

Sample Description

**SB-113-0-DFW**

Lab Name: CT Laboratories  Contract: HDR, INC-DDMT-DFW

Matrix: SOIL  SDG No.: 194024

Analytical Method: EPA 8260C  Concentration Units: ug/kg

Analytical Run #: 290598  Sample No.: 1569820  Parent Sample No.: 1568828

Analytical Prep Batch #: 138291  Analytical Preparation Date/Time: 04/07/2025 08:50

ICAL Calibration #: PS032525

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 04/08/2025 | 17:01 | 78-125 | 671 | BDL | 640 | 105 | |
| 1,1,1-Trichloroethane | 04/08/2025 | 17:01 | 73-130 | 707 | BDL | 640 | 110 | |
| 1,1,2,2-Tetrachloroethane | 04/08/2025 | 17:01 | 70-124 | 452 | BDL | 640 | 71 | |
| 1,1,2-Trichloroethane | 04/08/2025 | 17:01 | 78-121 | 678 | BDL | 640 | 106 | |
| 1,1-Dichloroethane | 04/08/2025 | 17:01 | 76-125 | 620 | BDL | 640 | 97 | |
| 1,1-Dichloroethene | 04/08/2025 | 17:01 | 70-131 | 905 | BDL | 640 | 141 | *FAIL* |
| 1,1-Dichloropropene | 04/08/2025 | 17:01 | 76-125 | 675 | BDL | 640 | 105 | |
| 1,2,3-Trichlorobenzene | 04/08/2025 | 17:01 | 66-130 | 473 | BDL | 640 | 74 | |
| 1,2,3-Trichloropropane | 04/08/2025 | 17:01 | 73-125 | 459 | BDL | 640 | 72 | *FAIL* |
| 1,2,4-Trichlorobenzene | 04/08/2025 | 17:01 | 67-129 | 461 | BDL | 640 | 72 | |
| 1,2,4-Trimethylbenzene | 04/08/2025 | 17:01 | 75-123 | 652 | BDL | 640 | 102 | |
| 1,2-Dibromo-3-chloropropane | 04/08/2025 | 17:01 | 61-132 | 589 | BDL | 640 | 92 | |
| 1,2-Dibromoethane | 04/08/2025 | 17:01 | 78-122 | 652 | BDL | 640 | 102 | |
| 1,2-Dichlorobenzene | 04/08/2025 | 17:01 | 78-121 | 605 | BDL | 640 | 95 | |
| 1,2-Dichloroethane | 04/08/2025 | 17:01 | 73-128 | 726 | BDL | 640 | 113 | |
| 1,2-Dichloropropane | 04/08/2025 | 17:01 | 76-123 | 600 | BDL | 640 | 94 | |
| 1,3,5-Trimethylbenzene | 04/08/2025 | 17:01 | 73-124 | 618 | BDL | 640 | 97 | |
| 1,3-Dichlorobenzene | 04/08/2025 | 17:01 | 77-121 | 647 | BDL | 640 | 101 | |
| 1,3-Dichloropropane | 04/08/2025 | 17:01 | 77-121 | 704 | BDL | 640 | 110 | |
| 1,4-Dichlorobenzene | 04/08/2025 | 17:01 | 75-120 | 634 | BDL | 640 | 99 | |
| 2,2-Dichloropropane | 04/08/2025 | 17:01 | 67-133 | 569 | BDL | 640 | 89 | |
| 2-Butanone | 04/08/2025 | 17:01 | 51-148 | 8750 | BDL | 6400 | 137 | |
| 2-Chlorotoluene | 04/08/2025 | 17:01 | 75-122 | 502 | BDL | 640 | 78 | |
| 2-Hexanone | 04/08/2025 | 17:01 | 53-145 | 6140 | BDL | 6400 | 96 | |
| 4-Chlorotoluene | 04/08/2025 | 17:01 | 72-124 | 624 | BDL | 640 | 98 | |
| 4-Methyl-2-pentanone | 04/08/2025 | 17:01 | 65-135 | 5620 | BDL | 6400 | 88 | |
| Acetone | 04/08/2025 | 17:01 | 36-164 | 10500 | BDL | 6400 | 164 | |
| Acrolein | 04/08/2025 | 17:01 | 47-155 | 3870 | BDL | 3200 | 121 | |
| Acrylonitrile | 04/08/2025 | 17:01 | 65-134 | 2530 | BDL | 3200 | 79 | |
| Benzene | 04/08/2025 | 17:01 | 77-121 | 676 | BDL | 640 | 106 | |
| Bromobenzene | 04/08/2025 | 17:01 | 78-121 | 480 | BDL | 640 | 75 | *FAIL* |

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**3B**

***SOIL VOLATILE MATRIX SPIKE RECOVERY***

Sample Description: **SB-113-0-DFW**

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 290598 | Sample No.: 1569820 | Parent Sample No.: 1568828

Analytical Prep Batch #: 138291 | Analytical Preparation Date/Time: 04/07/2025 08:50

ICAL Calibration #: PS032525

| Analyte | Analysis Date/Time | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|
| Bromochloromethane | 04/08/2025 17:01 | 78-125 | 752 | BDL | 640 | 118 | |
| Bromodichloromethane | 04/08/2025 17:01 | 75-127 | 732 | BDL | 640 | 114 | |
| Bromoform | 04/08/2025 17:01 | 67-132 | 631 | BDL | 640 | 99 | |
| Bromomethane | 04/08/2025 17:01 | 53-143 | 727 | BDL | 640 | 114 | |
| Carbon disulfide | 04/08/2025 17:01 | 63-132 | 1600 | BDL | 1280 | 125 | |
| Carbon tetrachloride | 04/08/2025 17:01 | 70-135 | 749 | BDL | 640 | 117 | |
| Chlorobenzene | 04/08/2025 17:01 | 79-120 | 646 | BDL | 640 | 101 | |
| Chloroethane | 04/08/2025 17:01 | 59-139 | 671 | BDL | 640 | 105 | |
| Chloroform | 04/08/2025 17:01 | 78-123 | 747 | BDL | 640 | 117 | |
| Chloromethane | 04/08/2025 17:01 | 50-136 | 475 | BDL | 640 | 74 | |
| cis-1,2-Dichloroethene | 04/08/2025 17:01 | 77-123 | 666 | BDL | 640 | 104 | |
| cis-1,3-Dichloropropene | 04/08/2025 17:01 | 74-126 | 673 | BDL | 640 | 105 | |
| Cyclohexane | 04/08/2025 17:01 | 67-131 | 518 | BDL | 640 | 81 | |
| Dibromochloromethane | 04/08/2025 17:01 | 74-126 | 684 | BDL | 640 | 107 | |
| Dibromomethane | 04/08/2025 17:01 | 78-125 | 729 | BDL | 640 | 114 | |
| Dichlorodifluoromethane | 04/08/2025 17:01 | 29-149 | 673 | BDL | 640 | 105 | |
| Ethylbenzene | 04/08/2025 17:01 | 76-122 | 652 | BDL | 640 | 102 | |
| Isopropylbenzene | 04/08/2025 17:01 | 68-134 | 637 | BDL | 640 | 100 | |
| m & p-Xylene | 04/08/2025 17:01 | 77-124 | 1260 | BDL | 1280 | 98 | |
| Methyl tert-butyl ether | 04/08/2025 17:01 | 73-125 | 600 | BDL | 640 | 94 | |
| Methylene chloride | 04/08/2025 17:01 | 70-128 | 863 | BDL | 640 | 135 | *FAIL* |
| Naphthalene | 04/08/2025 17:01 | 62-129 | 511 | 130 | 640 | 60 | *FAIL* |
| n-Butylbenzene | 04/08/2025 17:01 | 70-128 | 590 | BDL | 640 | 92 | |
| n-Propylbenzene | 04/08/2025 17:01 | 73-125 | 478 | BDL | 640 | 75 | |
| o-Xylene | 04/08/2025 17:01 | 77-123 | 644 | BDL | 640 | 101 | |
| p-Isopropyltoluene | 04/08/2025 17:01 | 73-127 | 649 | BDL | 640 | 101 | |
| sec-Butylbenzene | 04/08/2025 17:01 | 73-126 | 618 | BDL | 640 | 97 | |
| Styrene | 04/08/2025 17:01 | 76-124 | 656 | BDL | 640 | 102 | |
| tert-Butylbenzene | 04/08/2025 17:01 | 73-125 | 626 | BDL | 640 | 98 | |
| Tetrachloroethene | 04/08/2025 17:01 | 73-128 | 968 | 273 | 640 | 109 | |
| Tetrahydrofuran | 04/08/2025 17:01 | 61-135 | 4680 | BDL | 6400 | 73 | |

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**3B**

***SOIL VOLATILE MATRIX SPIKE RECOVERY***

Sample Description

**SB-113-0-DFW**

Lab Name: CT Laboratories  Contract: HDR, INC-DDMT-DFW

Matrix: SOIL  SDG No.: 194024

Analytical Method: EPA 8260C  Concentration Units: ug/kg

Analytical Run #: 290598  Sample No.: 1569820  Parent Sample No.: 1568828

Analytical Prep Batch #: 138291  Analytical Preparation Date/Time: 04/07/2025 08:50

ICAL Calibration #: PS032525

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|---|
| Toluene | 04/08/2025 | 17:01 | 77-121 | 695 | BDL | 640 | 109 | |
| trans-1,2-Dichloroethene | 04/08/2025 | 17:01 | 74-125 | 703 | BDL | 640 | 110 | |
| trans-1,3-Dichloropropene | 04/08/2025 | 17:01 | 71-130 | 656 | BDL | 640 | 102 | |
| Trichloroethene | 04/08/2025 | 17:01 | 77-123 | 804 | 85.0 | 640 | 112 | |
| Trichlorofluoromethane | 04/08/2025 | 17:01 | 62-140 | 929 | BDL | 640 | 145 | *FAIL* |
| Vinyl acetate | 04/08/2025 | 17:01 | 50-151 | 5600 | BDL | 6400 | 88 | |
| Vinyl chloride | 04/08/2025 | 17:01 | 56-135 | 636 | BDL | 640 | 99 | |

Spike Recovery: 6 out of 69 outside QC limits

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3B

Sample Description

**SB-113-0-DFW**

***SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 290584 | Sample No.: 1569339 | Parent Sample No.: 1569338

Analytical Prep Batch #: 138271 | Analytical Preparation Date/Time: 04/10/2025 11:55

ICAL Calibration #: LS041025

| Analyte | Analysis Date/Time | | Spike Result | Spike Amount | %R | %RPD | Control Limits (%R) | Control Limits (%RPD) | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 04/11/2025 | 15:04 | 13.0 | 11.9 | 109 | 6 | 78-125 | 20 | |
| 1,1,1-Trichloroethane | 04/11/2025 | 15:04 | 12.0 | 11.9 | 101 | 1 | 73-130 | 20 | |
| 1,1,2,2-Tetrachloroethane | 04/11/2025 | 15:04 | 18.8 | 11.9 | 158 | 6 | 70-124 | 20 | *FAIL* |
| 1,1,2-Trichloroethane | 04/11/2025 | 15:04 | 12.9 | 11.9 | 108 | 2 | 78-121 | 20 | |
| 1,1-Dichloroethane | 04/11/2025 | 15:04 | 12.1 | 11.9 | 102 | 1 | 76-125 | 20 | |
| 1,1-Dichloroethene | 04/11/2025 | 15:04 | 13.1 | 11.9 | 110 | 1 | 70-131 | 20 | |
| 1,1-Dichloropropene | 04/11/2025 | 15:04 | 12.9 | 11.9 | 108 | 9 | 76-125 | 20 | |
| 1,2,3-Trichlorobenzene | 04/11/2025 | 15:04 | 8.81 | 11.9 | 74 | 4 | 66-130 | 20 | |
| 1,2,3-Trichloropropane | 04/11/2025 | 15:04 | 19.6 | 11.9 | 165 | 5 | 73-125 | 20 | *FAIL* |
| 1,2,4-Trichlorobenzene | 04/11/2025 | 15:04 | 9.88 | 11.9 | 83 | 2 | 67-129 | 20 | |
| 1,2,4-Trimethylbenzene | 04/11/2025 | 15:04 | 17.5 | 11.9 | 147 | 3 | 75-123 | 20 | *FAIL* |
| 1,2-Dibromo-3-chloropropane | 04/11/2025 | 15:04 | 19.5 | 11.9 | 164 | 1 | 61-132 | 20 | *FAIL* |
| 1,2-Dibromoethane | 04/11/2025 | 15:04 | 14.8 | 11.9 | 124 | 2 | 78-122 | 20 | *FAIL* |
| 1,2-Dichlorobenzene | 04/11/2025 | 15:04 | 13.7 | 11.9 | 115 | 2 | 78-121 | 20 | |
| 1,2-Dichloroethane | 04/11/2025 | 15:04 | 12.3 | 11.9 | 103 | 1 | 73-128 | 20 | |
| 1,2-Dichloropropane | 04/11/2025 | 15:04 | 12.6 | 11.9 | 106 | 1 | 76-123 | 20 | |
| 1,3,5-Trimethylbenzene | 04/11/2025 | 15:04 | 17.0 | 11.9 | 143 | 5 | 73-124 | 20 | *FAIL* |
| 1,3-Dichlorobenzene | 04/11/2025 | 15:04 | 14.5 | 11.9 | 122 | 2 | 77-121 | 20 | *FAIL* |
| 1,3-Dichloropropane | 04/11/2025 | 15:04 | 12.9 | 11.9 | 108 | 1 | 77-121 | 20 | |
| 1,4-Dichlorobenzene | 04/11/2025 | 15:04 | 14.6 | 11.9 | 123 | 2 | 75-120 | 20 | *FAIL* |
| 2,2-Dichloropropane | 04/11/2025 | 15:04 | 13.2 | 11.9 | 111 | 7 | 67-133 | 20 | |
| 2-Butanone | 04/11/2025 | 15:04 | 173 | 119 | 126 | 7 | 51-148 | 20 | |
| 2-Chlorotoluene | 04/11/2025 | 15:04 | 16.7 | 11.9 | 140 | 5 | 75-122 | 20 | *FAIL* |
| 2-Hexanone | 04/11/2025 | 15:04 | 185 | 119 | 155 | 7 | 53-145 | 20 | *FAIL* |
| 4-Chlorotoluene | 04/11/2025 | 15:04 | 16.1 | 11.9 | 135 | 4 | 72-124 | 20 | *FAIL* |
| 4-Methyl-2-pentanone | 04/11/2025 | 15:04 | 171 | 119 | 144 | 5 | 65-135 | 20 | *FAIL* |
| Acetone | 04/11/2025 | 15:04 | 273 | 119 | 72 | 22 | 36-164 | 20 | *FAIL* |
| Acrolein | 04/11/2025 | 15:04 | 61.2 | 59.5 | 103 | 23 | 47-155 | 20 | *FAIL* |
| Acrylonitrile | 04/11/2025 | 15:04 | 76.5 | 59.5 | 129 | 14 | 65-134 | 20 | |
| Benzene | 04/11/2025 | 15:04 | 12.7 | 11.9 | 102 | 3 | 77-121 | 20 | |
| Bromobenzene | 04/11/2025 | 15:04 | 15.7 | 11.9 | 132 | 4 | 78-121 | 20 | *FAIL* |

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3B

Sample Description

**SB-113-0-DFW**

***SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 290584 | Sample No.: 1569339 | Parent Sample No.: 1569338

Analytical Prep Batch #: 138271 | Analytical Preparation Date/Time: 04/10/2025 11:55

ICAL Calibration #: LS041025

| Analyte | Analysis Date/Time | | Spike Result | Spike Amount | %R | %RPD | Control Limits (%R) | Control Limits (%RPD) | |
|---|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 04/11/2025 | 15:04 | 12.1 | 11.9 | 102 | 4 | 78-125 | 20 | |
| Bromodichloromethane | 04/11/2025 | 15:04 | 11.6 | 11.9 | 97 | 4 | 75-127 | 20 | |
| Bromoform | 04/11/2025 | 15:04 | 13.6 | 11.9 | 114 | 3 | 67-132 | 20 | |
| Bromomethane | 04/11/2025 | 15:04 | 12.0 | 11.9 | 101 | 6 | 53-143 | 20 | |
| Carbon disulfide | 04/11/2025 | 15:04 | 30.1 | 23.8 | 76 | 7 | 63-132 | 20 | |
| Carbon tetrachloride | 04/11/2025 | 15:04 | 12.3 | 11.9 | 103 | 3 | 70-135 | 20 | |
| Chlorobenzene | 04/11/2025 | 15:04 | 12.9 | 11.9 | 108 | 1 | 79-120 | 20 | |
| Chloroethane | 04/11/2025 | 15:04 | 14.1 | 11.9 | 118 | 7 | 59-139 | 20 | |
| Chloroform | 04/11/2025 | 15:04 | 12.1 | 11.9 | 102 | 6 | 78-123 | 20 | |
| Chloromethane | 04/11/2025 | 15:04 | 12.7 | 11.9 | 107 | 1 | 50-136 | 20 | |
| cis-1,2-Dichloroethene | 04/11/2025 | 15:04 | 19.1 | 11.9 | 130 | 34 | 77-123 | 20 | *FAIL* |
| cis-1,3-Dichloropropene | 04/11/2025 | 15:04 | 12.0 | 11.9 | 101 | 4 | 74-126 | 20 | |
| Cyclohexane | 04/11/2025 | 15:04 | 13.7 | 11.9 | 105 | 1 | 67-131 | 20 | |
| Dibromochloromethane | 04/11/2025 | 15:04 | 13.5 | 11.9 | 113 | 1 | 74-126 | 20 | |
| Dibromomethane | 04/11/2025 | 15:04 | 12.9 | 11.9 | 108 | 1 | 78-125 | 20 | |
| Dichlorodifluoromethane | 04/11/2025 | 15:04 | 13.3 | 11.9 | 112 | 1 | 29-149 | 20 | |
| Ethylbenzene | 04/11/2025 | 15:04 | 13.5 | 11.9 | 113 | 0 | 76-122 | 20 | |
| Isopropylbenzene | 04/11/2025 | 15:04 | 13.5 | 11.9 | 113 | 1 | 68-134 | 20 | |
| m & p-Xylene | 04/11/2025 | 15:04 | 27.6 | 23.8 | 116 | 0 | 77-124 | 20 | |
| Methyl tert-butyl ether | 04/11/2025 | 15:04 | 13.6 | 11.9 | 114 | 7 | 73-125 | 20 | |
| Methylene chloride | 04/11/2025 | 15:04 | 12.7 | 11.9 | 107 | 1 | 70-128 | 20 | |
| Naphthalene | 04/11/2025 | 15:04 | 10.2 | 11.9 | 86 | 2 | 62-129 | 20 | |
| n-Butylbenzene | 04/11/2025 | 15:04 | 16.7 | 11.9 | 140 | 4 | 70-128 | 20 | *FAIL* |
| n-Propylbenzene | 04/11/2025 | 15:04 | 18.0 | 11.9 | 151 | 5 | 73-125 | 20 | *FAIL* |
| o-Xylene | 04/11/2025 | 15:04 | 13.3 | 11.9 | 112 | 3 | 77-123 | 20 | |
| p-Isopropyltoluene | 04/11/2025 | 15:04 | 17.5 | 11.9 | 147 | 6 | 73-127 | 20 | *FAIL* |
| sec-Butylbenzene | 04/11/2025 | 15:04 | 17.6 | 11.9 | 148 | 6 | 73-126 | 20 | *FAIL* |
| Styrene | 04/11/2025 | 15:04 | 11.2 | 11.9 | 94 | 5 | 76-124 | 20 | |
| tert-Butylbenzene | 04/11/2025 | 15:04 | 16.9 | 11.9 | 142 | 7 | 73-125 | 20 | *FAIL* |
| Tetrachloroethene | 04/11/2025 | 15:04 | 54.9 | 11.9 | 0 | 39 | 73-128 | 20 | *FAIL* |
| Tetrahydrofuran | 04/11/2025 | 15:04 | 171 | 119 | 144 | 6 | 61-135 | 20 | *FAIL* |

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**3B**

***SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY***

Sample Description

**SB-113-0-DFW**

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 290584 | Sample No.: 1569339 | Parent Sample No.: 1569338

Analytical Prep Batch #: 138271 | Analytical Preparation Date/Time: 04/10/2025 11:55

ICAL Calibration #: LS041025

| Analyte | Analysis Date/Time | | Spike Result | Spike Amount | %R | %RPD | Control Limits (%R) | Control Limits (%RPD) | |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | 04/11/2025 | 15:04 | 13.3 | 11.9 | 98 | 6 | 77-121 | 20 | |
| trans-1,2-Dichloroethene | 04/11/2025 | 15:04 | 12.5 | 11.9 | 105 | 2 | 74-125 | 20 | |
| trans-1,3-Dichloropropene | 04/11/2025 | 15:04 | 12.0 | 11.9 | 101 | 4 | 71-130 | 20 | |
| Trichloroethene | 04/11/2025 | 15:04 | 28.6 | 11.9 | 18 | 31 | 77-123 | 20 | *FAIL* |
| Trichlorofluoromethane | 04/11/2025 | 15:04 | 12.9 | 11.9 | 108 | 1 | 62-140 | 20 | |
| Vinyl acetate | 04/11/2025 | 15:04 | 147 | 119 | 124 | 5 | 50-151 | 20 | |
| Vinyl chloride | 04/11/2025 | 15:04 | 14.2 | 11.9 | 119 | 1 | 56-135 | 20 | |

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3B

Sample Description

**SB-113-0-DFW**

***SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 290598 | Sample No.: 1569821 | Parent Sample No.: 1569820

Analytical Prep Batch #: 138291 | Analytical Preparation Date/Time: 04/07/2025 08:50

ICAL Calibration #: PS032525

| Analyte | Analysis Date/Time | | Spike Result | Spike Amount | %R | %RPD | Control Limits (%R) | Control Limits (%RPD) | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 04/08/2025 | 17:29 | 653 | 640 | 102 | 3 | 78-125 | 20 | |
| 1,1,1-Trichloroethane | 04/08/2025 | 17:29 | 664 | 640 | 104 | 6 | 73-130 | 20 | |
| 1,1,2,2-Tetrachloroethane | 04/08/2025 | 17:29 | 646 | 640 | 101 | 35 | 70-124 | 20 | *FAIL* |
| 1,1,2-Trichloroethane | 04/08/2025 | 17:29 | 611 | 640 | 95 | 10 | 78-121 | 20 | |
| 1,1-Dichloroethane | 04/08/2025 | 17:29 | 518 | 640 | 81 | 18 | 76-125 | 20 | |
| 1,1-Dichloroethene | 04/08/2025 | 17:29 | 566 | 640 | 88 | 46 | 70-131 | 20 | *FAIL* |
| 1,1-Dichloropropene | 04/08/2025 | 17:29 | 627 | 640 | 98 | 7 | 76-125 | 20 | |
| 1,2,3-Trichlorobenzene | 04/08/2025 | 17:29 | 655 | 640 | 102 | 32 | 66-130 | 20 | *FAIL* |
| 1,2,3-Trichloropropane | 04/08/2025 | 17:29 | 616 | 640 | 96 | 29 | 73-125 | 20 | *FAIL* |
| 1,2,4-Trichlorobenzene | 04/08/2025 | 17:29 | 634 | 640 | 99 | 32 | 67-129 | 20 | *FAIL* |
| 1,2,4-Trimethylbenzene | 04/08/2025 | 17:29 | 676 | 640 | 106 | 4 | 75-123 | 20 | |
| 1,2-Dibromo-3-chloropropane | 04/08/2025 | 17:29 | 520 | 640 | 81 | 12 | 61-132 | 20 | |
| 1,2-Dibromoethane | 04/08/2025 | 17:29 | 644 | 640 | 101 | 1 | 78-122 | 20 | |
| 1,2-Dichlorobenzene | 04/08/2025 | 17:29 | 653 | 640 | 102 | 8 | 78-121 | 20 | |
| 1,2-Dichloroethane | 04/08/2025 | 17:29 | 648 | 640 | 101 | 11 | 73-128 | 20 | |
| 1,2-Dichloropropane | 04/08/2025 | 17:29 | 595 | 640 | 93 | 1 | 76-123 | 20 | |
| 1,3,5-Trimethylbenzene | 04/08/2025 | 17:29 | 688 | 640 | 108 | 11 | 73-124 | 20 | |
| 1,3-Dichlorobenzene | 04/08/2025 | 17:29 | 643 | 640 | 100 | 1 | 77-121 | 20 | |
| 1,3-Dichloropropane | 04/08/2025 | 17:29 | 570 | 640 | 89 | 21 | 77-121 | 20 | *FAIL* |
| 1,4-Dichlorobenzene | 04/08/2025 | 17:29 | 644 | 640 | 101 | 2 | 75-120 | 20 | |
| 2,2-Dichloropropane | 04/08/2025 | 17:29 | 529 | 640 | 83 | 7 | 67-133 | 20 | |
| 2-Butanone | 04/08/2025 | 17:29 | 6820 | 6400 | 107 | 25 | 51-148 | 20 | *FAIL* |
| 2-Chlorotoluene | 04/08/2025 | 17:29 | 674 | 640 | 105 | 29 | 75-122 | 20 | *FAIL* |
| 2-Hexanone | 04/08/2025 | 17:29 | 5990 | 6400 | 94 | 3 | 53-145 | 20 | |
| 4-Chlorotoluene | 04/08/2025 | 17:29 | 682 | 640 | 107 | 9 | 72-124 | 20 | |
| 4-Methyl-2-pentanone | 04/08/2025 | 17:29 | 4800 | 6400 | 75 | 16 | 65-135 | 20 | |
| Acetone | 04/08/2025 | 17:29 | 7170 | 6400 | 112 | 38 | 36-164 | 20 | *FAIL* |
| Acrolein | 04/08/2025 | 17:29 | 2450 | 3200 | 77 | 45 | 47-155 | 20 | *FAIL* |
| Acrylonitrile | 04/08/2025 | 17:29 | 2070 | 3200 | 65 | 20 | 65-134 | 20 | |
| Benzene | 04/08/2025 | 17:29 | 709 | 640 | 111 | 5 | 77-121 | 20 | |
| Bromobenzene | 04/08/2025 | 17:29 | 660 | 640 | 103 | 32 | 78-121 | 20 | *FAIL* |

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**3B**

***SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY***

Sample Description: **SB-113-0-DFW**

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 290598 | Sample No.: 1569821 | Parent Sample No.: 1569820

Analytical Prep Batch #: 138291 | Analytical Preparation Date/Time: 04/07/2025 08:50

ICAL Calibration #: PS032525

| Analyte | Analysis Date/Time | | Spike Result | Spike Amount | %R | %RPD | Control Limits (%R) | Control Limits (%RPD) | |
|---|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 04/08/2025 | 17:29 | 608 | 640 | 95 | 21 | 78-125 | 20 | *FAIL* |
| Bromodichloromethane | 04/08/2025 | 17:29 | 604 | 640 | 94 | 19 | 75-127 | 20 | |
| Bromoform | 04/08/2025 | 17:29 | 635 | 640 | 99 | 1 | 67-132 | 20 | |
| Bromomethane | 04/08/2025 | 17:29 | 571 | 640 | 89 | 24 | 53-143 | 20 | *FAIL* |
| Carbon disulfide | 04/08/2025 | 17:29 | 1070 | 1280 | 84 | 40 | 63-132 | 20 | *FAIL* |
| Carbon tetrachloride | 04/08/2025 | 17:29 | 659 | 640 | 103 | 13 | 70-135 | 20 | |
| Chlorobenzene | 04/08/2025 | 17:29 | 646 | 640 | 101 | 0 | 79-120 | 20 | |
| Chloroethane | 04/08/2025 | 17:29 | 603 | 640 | 94 | 11 | 59-139 | 20 | |
| Chloroform | 04/08/2025 | 17:29 | 608 | 640 | 95 | 20 | 78-123 | 20 | |
| Chloromethane | 04/08/2025 | 17:29 | 400 | 640 | 62 | 17 | 50-136 | 20 | |
| cis-1,2-Dichloroethene | 04/08/2025 | 17:29 | 581 | 640 | 91 | 14 | 77-123 | 20 | |
| cis-1,3-Dichloropropene | 04/08/2025 | 17:29 | 738 | 640 | 115 | 9 | 74-126 | 20 | |
| Cyclohexane | 04/08/2025 | 17:29 | 484 | 640 | 76 | 7 | 67-131 | 20 | |
| Dibromochloromethane | 04/08/2025 | 17:29 | 647 | 640 | 101 | 6 | 74-126 | 20 | |
| Dibromomethane | 04/08/2025 | 17:29 | 711 | 640 | 111 | 3 | 78-125 | 20 | |
| Dichlorodifluoromethane | 04/08/2025 | 17:29 | 582 | 640 | 91 | 15 | 29-149 | 20 | |
| Ethylbenzene | 04/08/2025 | 17:29 | 671 | 640 | 105 | 3 | 76-122 | 20 | |
| Isopropylbenzene | 04/08/2025 | 17:29 | 655 | 640 | 102 | 3 | 68-134 | 20 | |
| m & p-Xylene | 04/08/2025 | 17:29 | 1270 | 1280 | 99 | 0 | 77-124 | 20 | |
| Methyl tert-butyl ether | 04/08/2025 | 17:29 | 510 | 640 | 80 | 16 | 73-125 | 20 | |
| Methylene chloride | 04/08/2025 | 17:29 | 558 | 640 | 87 | 43 | 70-128 | 20 | *FAIL* |
| Naphthalene | 04/08/2025 | 17:29 | 725 | 640 | 93 | 35 | 62-129 | 20 | *FAIL* |
| n-Butylbenzene | 04/08/2025 | 17:29 | 679 | 640 | 106 | 14 | 70-128 | 20 | |
| n-Propylbenzene | 04/08/2025 | 17:29 | 673 | 640 | 105 | 34 | 73-125 | 20 | *FAIL* |
| o-Xylene | 04/08/2025 | 17:29 | 650 | 640 | 102 | 1 | 77-123 | 20 | |
| p-Isopropyltoluene | 04/08/2025 | 17:29 | 670 | 640 | 105 | 3 | 73-127 | 20 | |
| sec-Butylbenzene | 04/08/2025 | 17:29 | 669 | 640 | 105 | 8 | 73-126 | 20 | |
| Styrene | 04/08/2025 | 17:29 | 647 | 640 | 101 | 1 | 76-124 | 20 | |
| tert-Butylbenzene | 04/08/2025 | 17:29 | 658 | 640 | 103 | 5 | 73-125 | 20 | |
| Tetrachloroethene | 04/08/2025 | 17:29 | 810 | 640 | 84 | 18 | 73-128 | 20 | |
| Tetrahydrofuran | 04/08/2025 | 17:29 | 3910 | 6400 | 61 | 18 | 61-135 | 20 | |

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**3B**

***SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY***

Sample Description: **SB-113-0-DFW**

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 290598 | Sample No.: 1569821 | Parent Sample No.: 1569820

Analytical Prep Batch #: 138291 | Analytical Preparation Date/Time: 04/07/2025 08:50

ICAL Calibration #: PS032525

| Analyte | Analysis Date/Time | | Spike Result | Spike Amount | %R | %RPD | Control Limits (%R) | Control Limits (%RPD) | |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | 04/08/2025 | 17:29 | 593 | 640 | 93 | 16 | 77-121 | 20 | |
| trans-1,2-Dichloroethene | 04/08/2025 | 17:29 | 576 | 640 | 90 | 20 | 74-125 | 20 | |
| trans-1,3-Dichloropropene | 04/08/2025 | 17:29 | 581 | 640 | 91 | 12 | 71-130 | 20 | |
| Trichloroethene | 04/08/2025 | 17:29 | 784 | 640 | 109 | 2 | 77-123 | 20 | |
| Trichlorofluoromethane | 04/08/2025 | 17:29 | 791 | 640 | 124 | 16 | 62-140 | 20 | |
| Vinyl acetate | 04/08/2025 | 17:29 | 4480 | 6400 | 70 | 22 | 50-151 | 20 | *FAIL* |
| Vinyl chloride | 04/08/2025 | 17:29 | 522 | 640 | 82 | 20 | 56-135 | 20 | |

RPD or Spike Recovery: 18 out of 69 outside QC limits

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**3B**

***SOIL VOLATILE LAB CONTROL SAMPLE***

Sample Description: **LCS**

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1569341
SDG No.: 194024
Analytical Method: EPA 8260C
Concentration Units: ug/kg

Sample No.: 1569341
Parent Sample No.: 0
Analytical Prep Batch #: 138271
Analytical Preparation Date/Time: 04/10/2025 11:55
Analytical Run #: 290584
ICAL Calibration #: LS041025

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 04/11/2025 | 08:48 | 78-125 | 8.80 | | 10.0 | 88 |
| 1,1,1-Trichloroethane | 04/11/2025 | 08:48 | 73-130 | 8.50 | | 10.0 | 85 |
| 1,1,2,2-Tetrachloroethane | 04/11/2025 | 08:48 | 70-124 | 9.80 | | 10.0 | 98 |
| 1,1,2-Trichloroethane | 04/11/2025 | 08:48 | 78-121 | 8.70 | | 10.0 | 87 |
| 1,1-Dichloroethane | 04/11/2025 | 08:48 | 76-125 | 8.60 | | 10.0 | 86 |
| 1,1-Dichloroethene | 04/11/2025 | 08:48 | 70-131 | 8.80 | | 10.0 | 88 |
| 1,1-Dichloropropene | 04/11/2025 | 08:48 | 76-125 | 8.30 | | 10.0 | 83 |
| 1,2,3-Trichlorobenzene | 04/11/2025 | 08:48 | 66-130 | 9.30 | | 10.0 | 93 |
| 1,2,3-Trichloropropane | 04/11/2025 | 08:48 | 73-125 | 9.90 | | 10.0 | 99 |
| 1,2,4-Trichlorobenzene | 04/11/2025 | 08:48 | 67-129 | 9.30 | | 10.0 | 93 |
| 1,2,4-Trimethylbenzene | 04/11/2025 | 08:48 | 75-123 | 9.50 | | 10.0 | 95 |
| 1,2-Dibromo-3-chloropropane | 04/11/2025 | 08:48 | 61-132 | 8.80 | | 10.0 | 88 |
| 1,2-Dibromoethane | 04/11/2025 | 08:48 | 78-122 | 9.20 | | 10.0 | 92 |
| 1,2-Dichlorobenzene | 04/11/2025 | 08:48 | 78-121 | 9.40 | | 10.0 | 94 |
| 1,2-Dichloroethane | 04/11/2025 | 08:48 | 73-128 | 8.50 | | 10.0 | 85 |
| 1,2-Dichloropropane | 04/11/2025 | 08:48 | 76-123 | 8.70 | | 10.0 | 87 |
| 1,3,5-Trimethylbenzene | 04/11/2025 | 08:48 | 73-124 | 9.40 | | 10.0 | 94 |
| 1,3-Dichlorobenzene | 04/11/2025 | 08:48 | 77-121 | 9.30 | | 10.0 | 93 |
| 1,3-Dichloropropane | 04/11/2025 | 08:48 | 77-121 | 8.70 | | 10.0 | 87 |
| 1,4-Dichlorobenzene | 04/11/2025 | 08:48 | 75-120 | 9.50 | | 10.0 | 95 |
| 2,2-Dichloropropane | 04/11/2025 | 08:48 | 67-133 | 8.30 | | 10.0 | 83 |
| 2-Butanone | 04/11/2025 | 08:48 | 51-148 | 94.2 | | 100 | 94 |
| 2-Chlorotoluene | 04/11/2025 | 08:48 | 75-122 | 9.30 | | 10.0 | 93 |
| 2-Hexanone | 04/11/2025 | 08:48 | 53-145 | 96.9 | | 100 | 97 |
| 4-Chlorotoluene | 04/11/2025 | 08:48 | 72-124 | 9.30 | | 10.0 | 93 |
| 4-Methyl-2-pentanone | 04/11/2025 | 08:48 | 65-135 | 91.3 | | 100 | 91 |
| Acetone | 04/11/2025 | 08:48 | 36-164 | 90.5 | | 100 | 90 |
| Acrolein | 04/11/2025 | 08:48 | 47-155 | 41.0 | | 50.0 | 82 |

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**3B**

Sample Description

**LCS**

***SOIL VOLATILE LAB CONTROL SAMPLE***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample No.: | 1569341 | SDG No.: | 194024 |
| Analytical Method: | EPA 8260C | Concentration Units: | ug/kg |

| | | | |
|---|---|---|---|
| Sample No.: | 1569341 | Parent Sample No.: | 0 |
| Analytical Prep Batch #: | 138271 | Analytical Preparation Date/Time: | 04/10/2025 11:55 |
| Analytical Run #: | 290584 | ICAL Calibration #: | LS041025 |

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| Acrylonitrile | 04/11/2025 | 08:48 | 65-134 | 44.9 | | 50.0 | 90 |
| Benzene | 04/11/2025 | 08:48 | 77-121 | 8.60 | | 10.0 | 86 |
| Bromobenzene | 04/11/2025 | 08:48 | 78-121 | 9.40 | | 10.0 | 94 |
| Bromochloromethane | 04/11/2025 | 08:48 | 78-125 | 8.50 | | 10.0 | 85 |
| Bromodichloromethane | 04/11/2025 | 08:48 | 75-127 | 8.50 | | 10.0 | 85 |
| Bromoform | 04/11/2025 | 08:48 | 67-132 | 8.90 | | 10.0 | 89 |
| Bromomethane | 04/11/2025 | 08:48 | 53-143 | 9.30 | | 10.0 | 93 |
| Carbon disulfide | 04/11/2025 | 08:48 | 63-132 | 17.3 | | 20.0 | 86 |
| Carbon tetrachloride | 04/11/2025 | 08:48 | 70-135 | 8.40 | | 10.0 | 84 |
| Chlorobenzene | 04/11/2025 | 08:48 | 79-120 | 9.00 | | 10.0 | 90 |
| Chloroethane | 04/11/2025 | 08:48 | 59-139 | 9.90 | | 10.0 | 99 |
| Chloroform | 04/11/2025 | 08:48 | 78-123 | 8.60 | | 10.0 | 86 |
| Chloromethane | 04/11/2025 | 08:48 | 50-136 | 8.70 | | 10.0 | 87 |
| cis-1,2-Dichloroethene | 04/11/2025 | 08:48 | 77-123 | 8.60 | | 10.0 | 86 |
| cis-1,3-Dichloropropene | 04/11/2025 | 08:48 | 74-126 | 8.40 | | 10.0 | 84 |
| Cyclohexane | 04/11/2025 | 08:48 | 67-131 | 9.00 | | 10.0 | 90 |
| Dibromochloromethane | 04/11/2025 | 08:48 | 74-126 | 8.80 | | 10.0 | 88 |
| Dibromomethane | 04/11/2025 | 08:48 | 78-125 | 8.50 | | 10.0 | 85 |
| Dichlorodifluoromethane | 04/11/2025 | 08:48 | 29-149 | 8.90 | | 10.0 | 89 |
| Ethylbenzene | 04/11/2025 | 08:48 | 76-122 | 8.90 | | 10.0 | 89 |
| Isopropylbenzene | 04/11/2025 | 08:48 | 68-134 | 9.10 | | 10.0 | 91 |
| m & p-Xylene | 04/11/2025 | 08:48 | 77-124 | 17.7 | | 20.0 | 88 |
| Methyl tert-butyl ether | 04/11/2025 | 08:48 | 73-125 | 8.90 | | 10.0 | 89 |
| Methylene chloride | 04/11/2025 | 08:48 | 70-128 | 8.10 | | 10.0 | 81 |
| Naphthalene | 04/11/2025 | 08:48 | 62-129 | 10.0 | | 10.0 | 100 |
| n-Butylbenzene | 04/11/2025 | 08:48 | 70-128 | 9.30 | | 10.0 | 93 |
| n-Propylbenzene | 04/11/2025 | 08:48 | 73-125 | 9.50 | | 10.0 | 95 |
| o-Xylene | 04/11/2025 | 08:48 | 77-123 | 9.00 | | 10.0 | 90 |

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**3B**

Sample Description

***SOIL VOLATILE LAB CONTROL SAMPLE***

**LCS**

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1569341
SDG No.: 194024
Analytical Method: EPA 8260C
Concentration Units: ug/kg

Sample No.: 1569341
Parent Sample No.: 0
Analytical Prep Batch #: 138271
Analytical Preparation Date/Time: 04/10/2025 11:55
Analytical Run #: 290584
ICAL Calibration #: LS041025

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | 04/11/2025 | 08:48 | 73-127 | 9.30 | | 10.0 | 93 |
| sec-Butylbenzene | 04/11/2025 | 08:48 | 73-126 | 9.50 | | 10.0 | 95 |
| Styrene | 04/11/2025 | 08:48 | 76-124 | 9.10 | | 10.0 | 91 |
| tert-Butylbenzene | 04/11/2025 | 08:48 | 73-125 | 9.10 | | 10.0 | 91 |
| Tetrachloroethene | 04/11/2025 | 08:48 | 73-128 | 8.10 | | 10.0 | 81 |
| Tetrahydrofuran | 04/11/2025 | 08:48 | 61-135 | 89.0 | | 100 | 89 |
| Toluene | 04/11/2025 | 08:48 | 77-121 | 8.40 | | 10.0 | 84 |
| trans-1,2-Dichloroethene | 04/11/2025 | 08:48 | 74-125 | 8.50 | | 10.0 | 85 |
| trans-1,3-Dichloropropene | 04/11/2025 | 08:48 | 71-130 | 8.70 | | 10.0 | 87 |
| Trichloroethene | 04/11/2025 | 08:48 | 77-123 | 8.50 | | 10.0 | 85 |
| Trichlorofluoromethane | 04/11/2025 | 08:48 | 62-140 | 8.90 | | 10.0 | 89 |
| Vinyl acetate | 04/11/2025 | 08:48 | 50-151 | 78.6 | | 100 | 79 |
| Vinyl chloride | 04/11/2025 | 08:48 | 78-124 | 9.30 | | 10.0 | 93 |

Spike Recovery: 0 out of 69 outside limits

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**3B**

***SOIL VOLATILE LAB CONTROL SAMPLE***

Sample Description: **LCS**

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1569823
SDG No.: 194024
Analytical Method: EPA 8260C
Concentration Units: ug/kg

Sample No.: 1569823
Parent Sample No.: 0
Analytical Prep Batch #: 138291
Analytical Preparation Date/Time: 04/07/2025 08:50
Analytical Run #: 290598
ICAL Calibration #: PS032525

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 04/07/2025 | 10:37 | 78-125 | 476 | | 500 | 95 |
| 1,1,1-Trichloroethane | 04/07/2025 | 10:37 | 73-130 | 494 | | 500 | 99 |
| 1,1,2,2-Tetrachloroethane | 04/07/2025 | 10:37 | 70-124 | 453 | | 500 | 91 |
| 1,1,2-Trichloroethane | 04/07/2025 | 10:37 | 78-121 | 481 | | 500 | 96 |
| 1,1-Dichloroethane | 04/07/2025 | 10:37 | 76-125 | 456 | | 500 | 91 |
| 1,1-Dichloroethene | 04/07/2025 | 10:37 | 70-131 | 502 | | 500 | 100 |
| 1,1-Dichloropropene | 04/07/2025 | 10:37 | 76-125 | 533 | | 500 | 107 |
| 1,2,3-Trichlorobenzene | 04/07/2025 | 10:37 | 66-130 | 427 | | 500 | 85 |
| 1,2,3-Trichloropropane | 04/07/2025 | 10:37 | 73-125 | 461 | | 500 | 92 |
| 1,2,4-Trichlorobenzene | 04/07/2025 | 10:37 | 67-129 | 406 | | 500 | 81 |
| 1,2,4-Trimethylbenzene | 04/07/2025 | 10:37 | 75-123 | 485 | | 500 | 97 |
| 1,2-Dibromo-3-chloropropane | 04/07/2025 | 10:37 | 61-132 | 400 | | 500 | 80 |
| 1,2-Dibromoethane | 04/07/2025 | 10:37 | 78-122 | 468 | | 500 | 94 |
| 1,2-Dichlorobenzene | 04/07/2025 | 10:37 | 78-121 | 467 | | 500 | 93 |
| 1,2-Dichloroethane | 04/07/2025 | 10:37 | 73-128 | 482 | | 500 | 96 |
| 1,2-Dichloropropane | 04/07/2025 | 10:37 | 76-123 | 440 | | 500 | 88 |
| 1,3,5-Trimethylbenzene | 04/07/2025 | 10:37 | 73-124 | 487 | | 500 | 97 |
| 1,3-Dichlorobenzene | 04/07/2025 | 10:37 | 77-121 | 463 | | 500 | 93 |
| 1,3-Dichloropropane | 04/07/2025 | 10:37 | 77-121 | 474 | | 500 | 95 |
| 1,4-Dichlorobenzene | 04/07/2025 | 10:37 | 75-120 | 474 | | 500 | 95 |
| 2,2-Dichloropropane | 04/07/2025 | 10:37 | 67-133 | 460 | | 500 | 92 |
| 2-Butanone | 04/07/2025 | 10:37 | 51-148 | 5200 | | 5000 | 104 |
| 2-Chlorotoluene | 04/07/2025 | 10:37 | 75-122 | 472 | | 500 | 94 |
| 2-Hexanone | 04/07/2025 | 10:37 | 53-145 | 3980 | | 5000 | 80 |
| 4-Chlorotoluene | 04/07/2025 | 10:37 | 72-124 | 481 | | 500 | 96 |
| 4-Methyl-2-pentanone | 04/07/2025 | 10:37 | 65-135 | 3940 | | 5000 | 79 |
| Acetone | 04/07/2025 | 10:37 | 36-164 | 4880 | | 5000 | 98 |
| Acrolein | 04/07/2025 | 10:37 | 47-155 | 2430 | | 2500 | 97 |

CT LABORATORIES
delivering more than data from your environmental analyses

**3B**

Sample Description

**LCS**

***SOIL VOLATILE LAB CONTROL SAMPLE***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample No.: | 1569823 | SDG No.: | 194024 |
| Analytical Method: | EPA 8260C | Concentration Units: | ug/kg |

| | | | |
|---|---|---|---|
| Sample No.: | 1569823 | Parent Sample No.: | 0 |
| Analytical Prep Batch #: | 138291 | Analytical Preparation Date/Time: | 04/07/2025 08:50 |
| Analytical Run #: | 290598 | ICAL Calibration #: | PS032525 |

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| Acrylonitrile | 04/07/2025 | 10:37 | 65-134 | 1910 | | 2500 | 76 |
| Benzene | 04/07/2025 | 10:37 | 77-121 | 493 | | 500 | 99 |
| Bromobenzene | 04/07/2025 | 10:37 | 78-121 | 483 | | 500 | 97 |
| Bromochloromethane | 04/07/2025 | 10:37 | 78-125 | 520 | | 500 | 104 |
| Bromodichloromethane | 04/07/2025 | 10:37 | 75-127 | 514 | | 500 | 103 |
| Bromoform | 04/07/2025 | 10:37 | 67-132 | 457 | | 500 | 91 |
| Bromomethane | 04/07/2025 | 10:37 | 53-143 | 529 | | 500 | 106 |
| Carbon disulfide | 04/07/2025 | 10:37 | 63-132 | 983 | | 1000 | 98 |
| Carbon tetrachloride | 04/07/2025 | 10:37 | 70-135 | 529 | | 500 | 106 |
| Chlorobenzene | 04/07/2025 | 10:37 | 79-120 | 480 | | 500 | 96 |
| Chloroethane | 04/07/2025 | 10:37 | 59-139 | 458 | | 500 | 92 |
| Chloroform | 04/07/2025 | 10:37 | 78-123 | 509 | | 500 | 102 |
| Chloromethane | 04/07/2025 | 10:37 | 50-136 | 366 | | 500 | 73 |
| cis-1,2-Dichloroethene | 04/07/2025 | 10:37 | 77-123 | 488 | | 500 | 98 |
| cis-1,3-Dichloropropene | 04/07/2025 | 10:37 | 74-126 | 473 | | 500 | 95 |
| Cyclohexane | 04/07/2025 | 10:37 | 67-131 | 441 | | 500 | 88 |
| Dibromochloromethane | 04/07/2025 | 10:37 | 74-126 | 479 | | 500 | 96 |
| Dibromomethane | 04/07/2025 | 10:37 | 78-125 | 515 | | 500 | 103 |
| Dichlorodifluoromethane | 04/07/2025 | 10:37 | 29-149 | 508 | | 500 | 102 |
| Ethylbenzene | 04/07/2025 | 10:37 | 76-122 | 478 | | 500 | 96 |
| Isopropylbenzene | 04/07/2025 | 10:37 | 68-134 | 464 | | 500 | 93 |
| m & p-Xylene | 04/07/2025 | 10:37 | 77-124 | 960 | | 1000 | 96 |
| Methyl tert-butyl ether | 04/07/2025 | 10:37 | 73-125 | 399 | | 500 | 80 |
| Methylene chloride | 04/07/2025 | 10:37 | 70-128 | 479 | | 500 | 96 |
| Naphthalene | 04/07/2025 | 10:37 | 62-129 | 396 | | 500 | 79 |
| n-Butylbenzene | 04/07/2025 | 10:37 | 70-128 | 471 | | 500 | 94 |
| n-Propylbenzene | 04/07/2025 | 10:37 | 73-125 | 483 | | 500 | 97 |
| o-Xylene | 04/07/2025 | 10:37 | 77-123 | 468 | | 500 | 94 |

CT LABORATORIES
delivering more than data from your environmental analyses

**3B**

Sample Description

***SOIL VOLATILE LAB CONTROL SAMPLE***

**LCS**

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1569823
SDG No.: 194024
Analytical Method: EPA 8260C
Concentration Units: ug/kg

Sample No.: 1569823
Parent Sample No.: 0
Analytical Prep Batch #: 138291
Analytical Preparation Date/Time: 04/07/2025 08:50
Analytical Run #: 290598
ICAL Calibration #: PS032525

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | 04/07/2025 | 10:37 | 73-127 | 482 | | 500 | 96 |
| sec-Butylbenzene | 04/07/2025 | 10:37 | 73-126 | 480 | | 500 | 96 |
| Styrene | 04/07/2025 | 10:37 | 76-124 | 465 | | 500 | 93 |
| tert-Butylbenzene | 04/07/2025 | 10:37 | 73-125 | 485 | | 500 | 97 |
| Tetrachloroethene | 04/07/2025 | 10:37 | 73-128 | 487 | | 500 | 97 |
| Tetrahydrofuran | 04/07/2025 | 10:37 | 61-135 | 3520 | | 5000 | 70 |
| Toluene | 04/07/2025 | 10:37 | 77-121 | 506 | | 500 | 101 |
| trans-1,2-Dichloroethene | 04/07/2025 | 10:37 | 74-125 | 513 | | 500 | 103 |
| trans-1,3-Dichloropropene | 04/07/2025 | 10:37 | 71-130 | 484 | | 500 | 97 |
| Trichloroethene | 04/07/2025 | 10:37 | 77-123 | 495 | | 500 | 99 |
| Trichlorofluoromethane | 04/07/2025 | 10:37 | 62-140 | 609 | | 500 | 122 |
| Vinyl acetate | 04/07/2025 | 10:37 | 50-151 | 5050 | | 5000 | 101 |
| Vinyl chloride | 04/07/2025 | 10:37 | 56-135 | 469 | | 500 | 94 |

Spike Recovery: 0 out of 69 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

**4A**

***VOLATILE METHOD BLANK SUMMARY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample ID: | 1569340 | SDG No.: | 194024 |
| Matrix: | SOLID | Date Extracted: | 04/10/2025 |
| Date Analyzed: | 04/11/2025 | Time Analyzed: | 09:46 |
| Analytical Method: | EPA 8260C | Extraction Method: | SW5035 |
| Analytical Run #: | 290584 | Extraction Batch #: | 138271 |
| | | ICAL Calibration #: | LS041025 |

***THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:***

| SEQUENCE | SAMPLE DESCRIPTION | SAMPLE ID | DATE/TIME ANALYZED | CALIBRATION # ID |
|---|---|---|---|---|
| 1 | BFB | 1571903 | 04/11/2025 07:34 | |
| 2 | CCV | 1571905 | 04/11/2025 08:19 | LS041025 |
| 3 | LCSS | 1569341 | 04/11/2025 08:48 | LS041025 |
| 4 | MBS | 1569340 | 04/11/2025 09:46 | LS041025 |
| 5 | SB-111-5-DFW | 1568823 | 04/11/2025 11:11 | LS041025 |
| 6 | SB-111-0-DFW | 1568822 | 04/11/2025 11:40 | LS041025 |
| 7 | SB-112-0-DFW | 1568820 | 04/11/2025 12:09 | LS041025 |
| 8 | DUP-1-DFW | 1568846 | 04/11/2025 13:08 | LS041025 |
| 9 | SB-113-0-DFW | 1568828 | 04/11/2025 13:37 | LS041025 |
| 10 | SB-113-5-DFW | 1568830 | 04/11/2025 14:06 | LS041025 |
| 11 | SB-113-0-DFWMSS | 1569338 | 04/11/2025 14:35 | LS041025 |
| 12 | SB-113-0-DFWMSDS | 1569339 | 04/11/2025 15:04 | LS041025 |
| 13 | CCVF | 1572388 | 04/11/2025 15:33 | LS041025 |

CT LABORATORIES
delivering more than data from your environmental analyses

**4A**

***VOLATILE METHOD BLANK SUMMARY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample ID: | 1569822 | SDG No.: | 194024 |
| Matrix: | SOLID | Date Extracted: | 04/07/2025 |
| Date Analyzed: | 04/07/2025 | Time Analyzed: | 11:32 |
| Analytical Method: | EPA 8260C | Extraction Method: | SW5035 |
| Analytical Run #: | 290598 | Extraction Batch #: | 138291 |
| | | ICAL Calibration #: | PS032525 |

***THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:***

| SEQUENCE | SAMPLE DESCRIPTION | SAMPLE ID | DATE/TIME ANALYZED | CALIBRATION # ID |
|---|---|---|---|---|
| 1 | BFB | 1569893 | 04/07/2025 09:28 | |
| 2 | CCV | 1569895 | 04/07/2025 10:10 | PS032525 |
| 3 | LCSS | 1569823 | 04/07/2025 10:37 | PS032525 |
| 4 | MBS | 1569822 | 04/07/2025 11:32 | PS032525 |
| 5 | SB-112-0-DFW | 1568820 | 04/07/2025 16:11 | PS032525 |
| 6 | SB-112-5-DFW | 1568821 | 04/07/2025 16:38 | PS032525 |
| 7 | CCVF | 1571425 | 04/07/2025 21:16 | PS032525 |
| 8 | BFB | 1570295 | 04/08/2025 08:52 | |
| 9 | CCV | 1570299 | 04/08/2025 09:35 | PS032525 |
| 10 | CCB | 1570300 | 04/08/2025 10:59 | PS032525 |
| 11 | SB-111-0-DFW | 1568822 | 04/08/2025 12:51 | PS032525 |
| 12 | SB-111-5-DFW | 1568823 | 04/08/2025 13:19 | PS032525 |
| 13 | SB-113-0-DFW | 1568828 | 04/08/2025 13:46 | PS032525 |
| 14 | SB-113-5-DFW | 1568830 | 04/08/2025 14:14 | PS032525 |
| 15 | DUP-1-DFW | 1568846 | 04/08/2025 14:42 | PS032525 |
| 16 | SB-113-0-DFWMSS | 1569820 | 04/08/2025 17:01 | PS032525 |
| 17 | SB-113-0-DFWMSDS | 1569821 | 04/08/2025 17:29 | PS032525 |
| 18 | CCVF | 1570637 | 04/08/2025 17:57 | PS032525 |

CT LABORATORIES
delivering more than data from your environmental analyses

**4A**

***VOLATILE METHOD BLANK SUMMARY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample ID: | 1572498 | SDG No.: | 194024 |
| Matrix: | LIQUID | Date Extracted: | |
| Date Analyzed: | 04/14/2025 | Time Analyzed: | 10:53 |
| Analytical Method: | EPA 8260C | Extraction Method: | NONE |
| Analytical Run #: | 290576 | Extraction Batch #: | 0 |
| | | ICAL Calibration #: | LW041325 |

***THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:***

| SEQUENCE | SAMPLE DESCRIPTION | SAMPLE ID | DATE/TIME ANALYZED | CALIBRATION # ID |
|---|---|---|---|---|
| 1 | BFB | 1572490 | 04/14/2025 07:49 | |
| 2 | LCSW | 1572493 | 04/14/2025 08:32 | LW041325 |
| 3 | CCV | 1572497 | 04/14/2025 08:32 | LW041325 |
| 4 | LCSDW | 1572515 | 04/14/2025 09:00 | LW041325 |
| 5 | MBW | 1572498 | 04/14/2025 10:53 | LW041325 |
| 6 | TB-01-DFW | 1568827 | 04/14/2025 12:18 | LW041325 |
| 7 | RB-01-DFW | 1568824 | 04/14/2025 18:58 | LW041325 |
| 8 | CCVF | 1572950 | 04/14/2025 19:27 | LW041325 |

Data File : C:\Instarch\Data\MAR2525\BFB1.D  Vial: 1
Acq On : 25 Mar 2025 13:41  Operator: RLD-DGS
Sample : BFB DIRECT INJ.  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.923 to 4.933 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.9 | 11692 | PASS |
| 75 | 95 | 30 | 60 | 46.2 | 28630 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 61942 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 4081 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 176 | PASS |
| 174 | 95 | 50 | 100 | 71.7 | 44442 | PASS |
| 175 | 174 | 5 | 9 | 7.8 | 3479 | PASS |
| 176 | 174 | 95 | 101 | 96.0 | 42656 | PASS |
| 177 | 176 | 5 | 9 | 8.0 | 3392 | PASS |

PS032525.M Fri Mar 28 12:58:40 2025

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR2525\BFB1.D
Injection Date : 25 Mar 2025 Log Time Period (hrs) : ALL
Injection Time : 13:41 Total files within period : 19
Sample Directory : C:\INSTARCH\DATA\MAR2525\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| CALS1 | 1.00 | 1.00 | 1.00 | CALIB. PT. 1 0.025/0.25 mg/kg, 5. | 25 Mar 2025 | 15:22 |
| CALS2 | 1.00 | 1.00 | 1.00 | CALIB. PT. 2 0.050/0.50 mg/kg, 5. | 25 Mar 2025 | 15:50 |
| CALS3 | 1.00 | 1.00 | 1.00 | CALIB. PT. 3 0.10/1.00 mg/kg, 5.0 | 25 Mar 2025 | 16:18 |
| CALS4 | 1.00 | 1.00 | 1.00 | CALIB. PT. 4 0.25/2.50 mg/kg, 5.0 | 25 Mar 2025 | 16:46 |
| CALS5 | 1.00 | 1.00 | 1.00 | CALIB. PT. 5 0.50/5.00 mg/kg, 5.0 | 25 Mar 2025 | 17:14 |
| CALS6 | 1.00 | 1.00 | 1.00 | CALIB. PT. 6 1.00/10.0 mg/kg, 5.0 | 25 Mar 2025 | 17:42 |
| CALS7 | 1.00 | 1.00 | 1.00 | CALIB. PT. 7 1.50/15.0 mg/kg, 5.0 | 25 Mar 2025 | 18:10 |
| CALS8 | 1.00 | 1.00 | 1.00 | CALIB. PT. 8 2.00/20.0 mg/kg, 5.0 | 25 Mar 2025 | 18:38 |
| CALS9 | 1.00 | 1.00 | 1.00 | CALIB. PT. 9 4.00/40.0 mg/kg, 5.0 | 25 Mar 2025 | 19:06 |
| ICV1 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF 0.50/5.00 mg/kg, 5.0 | 25 Mar 2025 | 20:01 |
| ICV2 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF 1.50/15.00 mg/kg, 5. | 25 Mar 2025 | 20:30 |
| ICV2 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF 1.50/15.00 mg/kg, 5. | 25 Mar 2025 | 20:30 |
| ICB1 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. BLANK 1.0 ml Ext/50ml, 5.0 | 25 Mar 2025 | 22:21 |

Data File : C:\Instarch\Data\APR0725\BFB1.D  Vial: 1
Acq On : 7 Apr 2025 9:28  Operator: RLD-DGS
Sample : 290592,BFB,  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.917 to 4.923 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.1 | 12864 | PASS |
| 75 | 95 | 30 | 60 | 50.5 | 32344 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 64082 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 4122 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 343 | PASS |
| 174 | 95 | 50 | 100 | 83.8 | 53690 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 4157 | PASS |
| 176 | 174 | 95 | 101 | 98.2 | 52709 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 3548 | PASS |

PS032525.M Wed Apr 09 11:55:31 2025

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR0725\BFB1.D
Injection Date : 7 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 09:28 Total files within period : 26
Sample Directory : C:\INSTARCH\DATA\APR0725\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| CCV1 | 1.00 | 1.00 | 1.00 | 290592,CCV, 0.50/5.00 mg/kg, 5.0 | 7 Apr 2025 | 10:10 |
| LCS1 | 1.00 | 1.00 | 1.00 | 290592,LCSS, 1.0ml Ext/50ml, 0.50 | 7 Apr 2025 | 10:37 |
| MB1 | 1.00 | 1.00 | 1.00 | 290592,MBS, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 11:32 |
| 1568820 | 1.00 | 1.00 | 1.00 | 290598,1568820, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 16:11 |
| 1568821 | 1.00 | 1.00 | 1.00 | 290598,1568821, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 16:38 |
| 1568822 | 1.00 | 1.00 | 1.00 | 290598,1568822, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 17:07 |
| 1568823 | 1.00 | 1.00 | 1.00 | 290598,1568823, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 17:34 |
| 1568828 | 1.00 | 1.00 | 1.00 | 290598,1568828, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 18:02 |
| 1568830 | 1.00 | 1.00 | 1.00 | 290598,1568830, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 18:30 |
| 1568846 | 1.00 | 1.00 | 1.00 | 290598,1568846, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 18:58 |
| 1568828M | 1.00 | 1.00 | 1.00 | 290598,MSS1568828, 1.0ml Ext/50ml, 0.50 | 7 Apr 2025 | 20:21 |
| 1568828S | 1.00 | 1.00 | 1.00 | 290598,MSDS1568828, 1.0ml Ext/50ml, 0.50 | 7 Apr 2025 | 20:49 |
| CCVF1 | 1.00 | 1.00 | 1.00 | 2905984,CCVF, 0.50/5.00 mg/kg, 5.0 | 7 Apr 2025 | 21:16 |

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC  Contract :
Project : Site : Location : Group :
Lab File ID (Standard): CALS5.D  Date Analyzed : 25 Mar 2025
Instrument ID : VMS4  Time Analyzed : 5:14 pm
GC Column : DB-624 UI ID : VMS3(mm) Heated Purge (Y:N) : N

| | IS1 | | IS2 | | IS3 | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| 12 HOUR STD | 1223517 | 7.90 | 935244 | 11.84 | 484041 | 15.15 |
| UPPER LIMIT | 2447034 | 8.40 | 1870488 | 12.34 | 968082 | 15.65 |
| LOWER LIMIT | 611759 | 7.40 | 467622 | 11.34 | 242021 | 14.65 |
| File ID Sample | | | | | | |
| 1568820 290598,15 | 967301 | 7.90 | 788463 | 11.84 | 379768 | 15.15 |
| 1568821 290598,15 | 935121 | 7.90 | 744686 | 11.84 | 357751 | 15.15 |
| 1568822 290598,15 | 608468 * | 7.90 | 484367 | 11.84 | 237257 * | 15.15 |
| 1568823 290598,15 | 607656 * | 7.90 | 486651 | 11.84 | 230186 * | 15.15 |
| 1568828 290598,15 | 592967 * | 7.90 | 483881 | 11.84 | 226973 * | 15.15 |
| 1568828M 290598,MS | 629545 | 7.90 | 513268 | 11.84 | 263975 | 15.15 |
| 1568828S 290598,MS | 636138 | 7.90 | 524978 | 11.84 | 263053 | 15.15 |
| 1568830 290598,15 | 590809 * | 7.90 | 478820 | 11.84 | 232543 * | 15.15 |
| 1568846 290598,15 | 592918 * | 7.90 | 483693 | 11.84 | 227445 * | 15.15 |
| 1569353 290592,15 | 1205874 | 7.90 | 965468 | 11.84 | 461339 | 15.15 |
| CCV1 290592,CC | 1203015 | 7.89 | 1011564 | 11.84 | 502859 | 15.15 |
| CCVF1 2905984,C | 636900 | 7.90 | 518971 | 11.83 | 254640 | 15.15 |
| LCS1 290592,LC | 1326752 | 7.90 | 1076002 | 11.84 | 549065 | 15.15 |
| MB1 290592,MB | 1194778 | 7.90 | 966531 | 11.84 | 467854 | 15.15 |

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

Data File : C:\Instarch\Data\APR0825\BFB1.D  Vial: 1
Acq On : 8 Apr 2025 8:52  Operator: RLD-DGS
Sample : 290622,BFB,  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.926 to 4.936 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.5 | 4946 | PASS |
| 75 | 95 | 30 | 60 | 54.3 | 11939 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 21970 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 1478 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 66.6 | 14625 | PASS |
| 175 | 174 | 5 | 9 | 8.5 | 1248 | PASS |
| 176 | 174 | 95 | 101 | 100.5 | 14693 | PASS |
| 177 | 176 | 5 | 9 | 7.1 | 1048 | PASS |

PS032525.M Wed Apr 09 12:17:54 2025

# Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR0825\BFB1.D
Injection Date : 8 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 08:52 Total files within period : 20
Sample Directory : C:\INSTARCH\DATA\APR0825\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| CCV1 | 1.00 | 1.00 | 1.00 | 290622,CCV, 0.50/5.00 mg/kg, 5.0 | 8 Apr 2025 | 09:35 |
| LCS1 | 1.00 | 1.00 | 1.00 | 290622,LCSS, 1.0ml Ext/50ml, 0.50 | 8 Apr 2025 | 10:03 |
| MB-CCB1 | 1.00 | 1.00 | 1.00 | 290622,MBS, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 10:59 |
| 1568822R | 1.00 | 1.00 | 1.00 | 290598,1568822, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 12:51 |
| 1568823R | 1.00 | 1.00 | 1.00 | 290598,1568823, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 13:19 |
| 1568828R | 1.00 | 1.00 | 1.00 | 290598,1568828, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 13:46 |
| 1568830R | 1.00 | 1.00 | 1.00 | 290598,1568830, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 14:14 |
| 1568846R | 1.00 | 1.00 | 1.00 | 290598,1568846, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 14:42 |
| 1568828M | 1.00 | 1.00 | 1.00 | 290598,MSS1568828, 1.0ml Ext/50ml, 0.50 | 8 Apr 2025 | 17:01 |
| 1568828S | 1.00 | 1.00 | 1.00 | 290598,MSDS1568828, | 8 Apr 2025 | 17:29 |
| ##6&ts | tsłdzdz | tsłdzdz | tsłdzdz | tƒqdzztƒƒł##6&ł dzłsdzYlsłdzdz | ¬ !ÐÒ tƒdztƒls | tsẅklsẅ |

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC  Contract :
Project : Site : Location : Group :
Lab File ID (Standard): CALS5.D  Date Analyzed : 25 Mar 2025
Instrument ID : VMS4  Time Analyzed : 5:14 pm
GC Column : DB-624 UI ID : VMS3(mm) Heated Purge (Y:N) : N

| | IS1 | | IS2 | | IS3 | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| 12 HOUR STD | 1223517 | 7.90 | 935244 | 11.84 | 484041 | 15.15 |
| UPPER LIMIT | 2447034 | 8.40 | 1870488 | 12.34 | 968082 | 15.65 |
| LOWER LIMIT | 611759 | 7.40 | 467622 | 11.34 | 242021 | 14.65 |
| File ID Sample | | | | | | |
| 1568822R 290598,15 | 1024213 | 7.90 | 847633 | 11.84 | 412166 | 15.15 |
| 1568823R 290598,15 | 1003127 | 7.90 | 829529 | 11.84 | 409624 | 15.15 |
| 1568828M 290598,MS | 1095078 | 7.90 | 911524 | 11.83 | 640831 | 15.15 |
| 1568828R 290598,15 | 1007781 | 7.90 | 839482 | 11.84 | 406915 | 15.15 |
| 1568828S 290598,MS | 1328080 | 7.89 | 945851 | 11.84 | 478246 | 15.15 |
| 1568830R 290598,15 | 989745 | 7.90 | 836523 | 11.83 | 407050 | 15.15 |
| 1568846R 290598,15 | 1013634 | 7.90 | 841463 | 11.84 | 399202 | 15.15 |
| CCV1 290622,CC | 1104861 | 7.90 | 909721 | 11.84 | 467494 | 15.15 |
| CCVF1 290622,CC | 1091572 | 7.90 | 950719 | 11.84 | 479456 | 15.15 |
| LCS1 290622,LC | 1122633 | 7.90 | 943457 | 11.84 | 490080 | 15.15 |
| MB-CCB1 290622,MB | 1069234 | 7.90 | 885780 | 11.84 | 435736 | 15.15 |

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

Data File : C:\Instarch\Data\APR1025\BFB1.D  Vial: 1
Acq On : 10 Apr 2025 9:19  Operator: RLD-DGS
Sample : BFB DIRECT INJ.  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS041025.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.936 to 4.943 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 17.2 | 7678 | PASS |
| 75 | 95 | 30 | 60 | 49.2 | 22021 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 44768 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 3138 | PASS |
| 173 | 174 | 0.00 | 2 | 0.3 | 107 | PASS |
| 174 | 95 | 50 | 100 | 80.0 | 35824 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 2689 | PASS |
| 176 | 174 | 95 | 101 | 97.8 | 35050 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 2340 | PASS |

LS041025.M Wed Apr 16 07:34:54 2025

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS041025.M
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR1025\BFB1.D
Injection Date : 10 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 09:19 Total files within period : 17
Sample Directory : C:\INSTARCH\DATA\APR1025\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| LLSCAL1 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. PT 1<br>0.001/0.010 mg/kg, 1 | 10 Apr 2025 | 10:31 |
| LLSCAL2 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. PT 2<br>0.002/0.020 mg/kg, 1 | 10 Apr 2025 | 11:00 |
| LLSCAL3 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. PT 3<br>0.005/0.050 mg/kg, 1 | 10 Apr 2025 | 11:30 |
| LLSCAL4 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. PT 4<br>0.010/0.100 mg/kg, 1 | 10 Apr 2025 | 11:59 |
| LLSCAL5 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. PT 5<br>0.020/0.200 mg/kg, 1 | 10 Apr 2025 | 12:28 |
| LLSCAL6 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. PT 6<br>0.030/0.300 mg/kg, 1 | 10 Apr 2025 | 12:57 |
| LLSCAL7 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. PT 7<br>0.040/0.400 mg/kg, 1 | 10 Apr 2025 | 13:26 |
| LLSCAL8 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. PT 8<br>0.080/0.800 mg/kg, 1 | 10 Apr 2025 | 13:55 |
| ICV1 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF<br>0.010/0.100 mg/kg, 1 | 10 Apr 2025 | 14:53 |
| ICV2 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF<br>0.030/0.300 mg/kg, 1 | 10 Apr 2025 | 15:23 |
| ICB1 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. BLANK<br>5.00g, 15.0 ml DI H2 | 10 Apr 2025 | 17:19 |

Data File : C:\Instarch\Data\APR1125\BFB1.D  Vial: 1
Acq On : 11 Apr 2025 7:34  Operator: RLD-DGS
Sample : 290584,BFB,  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS041025.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.943 to 4.949 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.4 | 12423 | PASS |
| 75 | 95 | 30 | 60 | 48.4 | 30970 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 64050 | PASS |
| 96 | 95 | 5 | 9 | 5.7 | 3662 | PASS |
| 173 | 174 | 0.00 | 2 | 0.8 | 382 | PASS |
| 174 | 95 | 50 | 100 | 77.9 | 49887 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 3824 | PASS |
| 176 | 174 | 95 | 101 | 98.9 | 49333 | PASS |
| 177 | 176 | 5 | 9 | 7.3 | 3598 | PASS |

LS041025.M Mon Apr 14 13:04:25 2025

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS041025.M
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR1125\BFB1.D
Injection Date : 11 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 07:34 Total files within period : 26
Sample Directory : C:\INSTARCH\DATA\APR1125\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| CCV1 | 1.00 | 1.00 | 1.00 | 290584,CCV, 0.010/0.100 mg/kg, 1 | 11 Apr 2025 | 08:19 |
| LCS1 | 1.00 | 1.00 | 1.00 | 290584,LCSS, 5.00g, 0.010/0.100 m | 11 Apr 2025 | 08:48 |
| MB1 | 1.00 | 1.00 | 1.00 | 290584,MBS, 5.00g, 15.0 ml DI H2 | 11 Apr 2025 | 09:46 |
| 1568823 | 1.00 | 1.00 | 1.00 | 290584,1568823, 5.74g, 15.0 ml DI H2 | 11 Apr 2025 | 11:11 |
| 1568822 | 1.00 | 1.00 | 1.00 | 290584,1568822, 5.02g, 15.0 ml DI H2 | 11 Apr 2025 | 11:40 |
| 1568820 | 1.00 | 1.00 | 1.00 | 290584,1568820, 5.27g, 15.0 ml DI H2 | 11 Apr 2025 | 12:09 |
| 1568846 | 1.00 | 1.00 | 1.00 | 290584,1568846, 4.94g, 15.0 ml DI H2 | 11 Apr 2025 | 13:08 |
| 1568828 | 1.00 | 1.00 | 1.00 | 290584,1568828, 4.25g, 15.0 ml DI H2 | 11 Apr 2025 | 13:37 |
| 1568830 | 1.00 | 1.00 | 1.00 | 290584,1568830, 4.95g, 15.0 ml DI H2 | 11 Apr 2025 | 14:06 |
| 1568828M | 1.00 | 1.00 | 1.00 | 290584,MSS1568828,, 4.46g, 0.010/0.100 m | 11 Apr 2025 | 14:35 |
| 1568828S | 1.00 | 1.00 | 1.00 | 290584,MSDS1568828,, 5.07g, 0.010/0.100 m | 11 Apr 2025 | 15:04 |
| CCVF1 | 1.00 | 1.00 | 1.00 | 290584,CCVF, 0.010/0.100 mg/kg, 1 | 11 Apr 2025 | 15:33 |

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC  Contract :
Project : Site : Location : Group :
Lab File ID (Standard): LLSCAL4.D  Date Analyzed : 10 Apr 2025
Instrument ID : VMS4  Time Analyzed : 11:59 am
GC Column : DB-624 UI  ID : VMS4(mm)  Heated Purge (Y:N) : Y

| | IS1 | | IS2 | | IS3 | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| 12 HOUR STD | 981822 | 7.90 | 829850 | 11.83 | 424392 | 15.15 |
| UPPER LIMIT | 1963644 | 8.40 | 1659700 | 12.33 | 848784 | 15.65 |
| LOWER LIMIT | 490911 | 7.40 | 414925 | 11.33 | 212196 | 14.65 |
| File ID Sample | | | | | | |
| 1568820 290584,15 | 980974 | 7.90 | 719438 | 11.84 | 314506 | 15.15 |
| 1568822 290584,15 | 1064343 | 7.90 | 785760 | 11.84 | 331150 | 15.15 |
| 1568823 290584,15 | 936602 | 7.90 | 707266 | 11.84 | 327619 | 15.15 |
| 1568828 290584,15 | 1085130 | 7.90 | 781984 | 11.83 | 312210 | 15.15 |
| 1568828M 290584,MS | 796178 | 7.90 | 567532 | 11.84 | 226858 | 15.15 |
| 1568828S 290584,MS | 1054912 | 7.90 | 765632 | 11.84 | 295732 | 15.15 |
| 1568830 290584,15 | 1038588 | 7.90 | 765797 | 11.84 | 322141 | 15.15 |
| 1568846 290584,15 | 1040295 | 7.90 | 753601 | 11.84 | 298895 | 15.15 |
| CCV1 290584,CC | 1032010 | 7.90 | 802472 | 11.84 | 409653 | 15.15 |
| CCVF1 290584,CC | 1071978 | 7.90 | 838890 | 11.84 | 422173 | 15.15 |
| LCS1 290584,LC | 1014292 | 7.90 | 790548 | 11.83 | 390728 | 15.15 |
| MB1 290584,MB | 1051162 | 7.90 | 791887 | 11.83 | 388194 | 15.15 |

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

Data File : C:\Instarch\Data\APR1325\BFB1.D  Vial: 1
Acq On : 13 Apr 2025 8:05  Operator: RLD-DGS
Sample : BFB DIRECT INJ.  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW041325.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.917 to 4.923 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.5 | 16548 | PASS |
| 75 | 95 | 30 | 60 | 56.1 | 56126 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 100000 | PASS |
| 96 | 95 | 5 | 9 | 5.9 | 5948 | PASS |
| 173 | 174 | 0.00 | 2 | 0.7 | 571 | PASS |
| 174 | 95 | 50 | 100 | 83.2 | 83200 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 6348 | PASS |
| 176 | 174 | 95 | 101 | 100.0 | 83237 | PASS |
| 177 | 176 | 5 | 9 | 8.7 | 7235 | PASS |

LW041325.M Wed Apr 16 08:11:24 2025

# Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW041325.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR1325\BFB1.D
Injection Date : 13 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 08:05 Total files within period : 20
Sample Directory : C:\INSTARCH\DATA\APR1325\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| LLCALW1 | 1.00 | 1.00 | 1.00 | CALIB. PT. 1<br>0.10/1.00 ug/L, 25.0 | 13 Apr 2025 | 09:45 |
| LLCALW2 | 1.00 | 1.00 | 1.00 | CALIB. PT. 2<br>0.20/2.00 ug/L, 25.0 | 13 Apr 2025 | 10:13 |
| LLCALW3 | 1.00 | 1.00 | 1.00 | CALIB. PT. 3<br>0.50/5.00 ug/L, 25.0 | 13 Apr 2025 | 10:41 |
| LLCALW4 | 1.00 | 1.00 | 1.00 | CALIB. PT. 4<br>1.00/10.00 ug/L, 25. | 13 Apr 2025 | 11:09 |
| LLCALW5 | 1.00 | 1.00 | 1.00 | CALIB. PT. 5<br>2.00/20.00 ug/L, 25. | 13 Apr 2025 | 11:38 |
| LLCALW6 | 1.00 | 1.00 | 1.00 | CALIB. PT. 6<br>4.00/40.00 ug/L, 25. | 13 Apr 2025 | 12:06 |
| LLCALW7 | 1.00 | 1.00 | 1.00 | CALIB. PT. 7<br>6.00/60.00 ug/L, 25. | 13 Apr 2025 | 12:34 |
| LLCALW8 | 1.00 | 1.00 | 1.00 | CALIB. PT. 8<br>8.00/80.00 ug/L, 25. | 13 Apr 2025 | 13:02 |
| LLCALW9 | 1.00 | 1.00 | 1.00 | CALIB. PT. 9<br>16.00/160 ug/L, 25.0 | 13 Apr 2025 | 13:30 |
| ICV1 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF<br>4.00/40.00 ug/L, 25. | 13 Apr 2025 | 14:27 |
| ICV2 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF<br>8.00/80.00 ug/L, 25. | 13 Apr 2025 | 14:55 |
| ICB1 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. BLANK<br>pH<2, 25.0 ml DI H2O | 13 Apr 2025 | 17:16 |

Data File : C:\Instarch\Data\APR1325\BFB1.D  Vial: 1
Acq On : 13 Apr 2025 8:05  Operator: RLD-DGS
Sample : BFB DIRECT INJ.  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW041325.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.917 to 4.923 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.5 | 16548 | PASS |
| 75 | 95 | 30 | 60 | 56.1 | 56126 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 100000 | PASS |
| 96 | 95 | 5 | 9 | 5.9 | 5948 | PASS |
| 173 | 174 | 0.00 | 2 | 0.7 | 571 | PASS |
| 174 | 95 | 50 | 100 | 83.2 | 83200 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 6348 | PASS |
| 176 | 174 | 95 | 101 | 100.0 | 83237 | PASS |
| 177 | 176 | 5 | 9 | 8.7 | 7235 | PASS |

LW041325.M Wed Apr 16 08:11:24 2025

# Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW041325.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR1425\BFB1.D
Injection Date : 14 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 07:49 Total files within period : 46
Sample Directory : C:\INSTARCH\DATA\APR1425\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| CCV-LCS1 | 1.00 | 1.00 | 1.00 | 290576,LCSW, 4.00/40.00 ug/L, 25. | 14 Apr 2025 | 08:32 |
| LCSD1 | 1.00 | 1.00 | 1.00 | 290576,LCSDW, 4.00/40.00 ug/L, 25. | 14 Apr 2025 | 09:00 |
| MB1 | 1.00 | 1.00 | 1.00 | 290576,MBW, pH<2, 25.0 ml DI H2O | 14 Apr 2025 | 10:53 |
| 1568827 | 1.00 | 1.00 | 1.00 | 290576,1568827, pH<2, 25.0 ml Purged | 14 Apr 2025 | 12:18 |
| 1568824 | 1.00 | 1.00 | 1.00 | 290576,1568824, pH<2, 25.0 ml Purged | 14 Apr 2025 | 18:58 |
| CCVF1 | 1.00 | 1.00 | 1.00 | 290576,CCVF, 4.00/40.00 ug/L, 25. | 14 Apr 2025 | 19:27 |

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC  Contract :
Project : Site : Location : Group :
Lab File ID (Standard): LLCALW6.D  Date Analyzed : 13 Apr 2025
Instrument ID : VMS4  Time Analyzed : 12:06 pm
GC Column : DB-624 UI  ID : VMS4(mm)  Heated Purge (Y:N) : N

| | IS1 | | IS2 | | IS3 | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| 12 HOUR STD | 1188523 | 7.90 | 882758 | 11.84 | 444219 | 15.15 |
| UPPER LIMIT | 2377046 | 8.40 | 1765516 | 12.34 | 888438 | 15.65 |
| LOWER LIMIT | 594262 | 7.40 | 441379 | 11.34 | 222110 | 14.65 |
| File ID Sample | | | | | | |
| 1568824 290576,15 | 1151510 | 7.90 | 839307 | 11.84 | 413482 | 15.15 |
| 1568827 290576,15 | 1161410 | 7.90 | 862869 | 11.84 | 421574 | 15.15 |
| CCVF1 290576,CC | 1171791 | 7.90 | 863103 | 11.83 | 441221 | 15.15 |
| CCV-LCS1 290576,LC | 1194240 | 7.90 | 877318 | 11.84 | 437028 | 15.15 |
| LCSD1 290576,LC | 1187118 | 7.90 | 883248 | 11.83 | 452054 | 15.15 |
| MB1 290576,MB | 1164069 | 7.90 | 869142 | 11.84 | 419697 | 15.15 |

IS1 = FLUOROBENZENE**ISTD**
IS2 = d5-CHLOROBENZENE**ISTD**
IS3 = d4-1,4-DICHLOROBENZENE**IS

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

# VOLATILE ORGANIC ANALYSIS
# SAMPLE DATA
# DOCUMENTS

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568820.D Vial: 16
Acq On : 7 Apr 2025 16:11 Operator: RLD-DGS
Sample : 290598,1568820, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 16:31:45 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 967301 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 788463 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 379768 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 277381 | 1.065 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 107 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 60500 | 0.971 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 97 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 968825 | 1.015 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 355483 | 0.974 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 97 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.17 | 50 | 1848 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.83 | 94 | 1661 | Below Cal # | | 1 |
| 6) Chloroethane | 3.01 | 64 | 1709 | N.D. | | |
| 7) dichloroflmethane | 3.31 | 67 | 2369 | Below Cal # | | 5 |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 4.10 | 58 | 1398 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.27 | 43 | 6844 | N.D. | | |
| 16) Iodomethane | 4.31 | 127 | 2376 | N.D. | | |
| 17) Carbon Dislf | 4.42 | 76 | 1772 | N.D. | | |
| 18) allylchloride | 4.57 | 41 | 1183 | N.D. | | |
| 19) methylacetate | 4.72 | 74 | 8336 | 0.0441 | mg/kg | 87 |
| 20) Methylchlorid | 4.80 | 84 | 1243 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 5.03 | 59 | 1482 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 5.83 | 45 | 1913 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.43 | 77 | 1655 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.91 | 42 | 1393 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568820.D Vial: 16
Acq On : 7 Apr 2025 16:11 Operator: RLD-DGS
Sample : 290598,1568820, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 16:31:45 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | | |
| 46) | Benzene | 7.55 | 78 | 1523 | N.D. | | |
| 47) | 12dichlorota | 7.54 | 62 | 1024 | N.D. | | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | | |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | | |
| 57) | 2Nitropropane | 0.00 | 43 | 0 | N.D. | | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | | |
| 59) | 4Meth2Pentan | 0.00 | 43 | 0 | N.D. | | |
| 61) | Toluene | 10.02 | 92 | 3091 | N.D. | | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | | |
| 68) | 2Hexanone | 0.00 | 43 | 0 | N.D. | | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | | |
| 72) | 1Clhexane | 11.83 | 91 | 1999 | N.D. | | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | | |
| 74) | Ethylbenzene | 12.03 | 91 | 3207 | N.D. | | |
| 75) | m p-Xylene | 12.19 | 106 | 3607 | N.D. | | |
| 76) | o-Xylene | 12.75 | 106 | 2828 | N.D. | | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | | |
| 81) | cyclohexanone | 13.47 | 55 | 2185 | N.D. | | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | | |
| 87) | n-Propylbenz | 13.88 | 91 | 1209 | N.D. | | |
| 88) | 2chlorotolue | 13.88 | 91 | 1209 | N.D. | | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | | |
| 90) | 135Trimebenz | 14.12 | 105 | 2620 | N.D. | | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | | |
| 92) | 124Trimetben | 14.66 | 105 | 4121 | N.D. | | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | | |
| 94) | 13Diclorbenz | 15.15 | 146 | 1145 | N.D. | | |
| 95) | pIsopropylto | 15.13 | 119 | 15129 | 0.0160 | mg/kg | 96 |
| 96) | 14dichlorobe | 15.15 | 146 | 1145 | N.D. | | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | | |
| 98) | nButylbenzen | 15.69 | 91 | 2733 | N.D. | | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0725\1568820.D Vial: 16
Acq On : 7 Apr 2025 16:11 Operator: RLD-DGS
Sample : 290598,1568820, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 16:31:45 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) | Naphthalene | 18.25 | 128 | 197623 | 0.3307 | mg/kg | 96 |
| 104) | 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

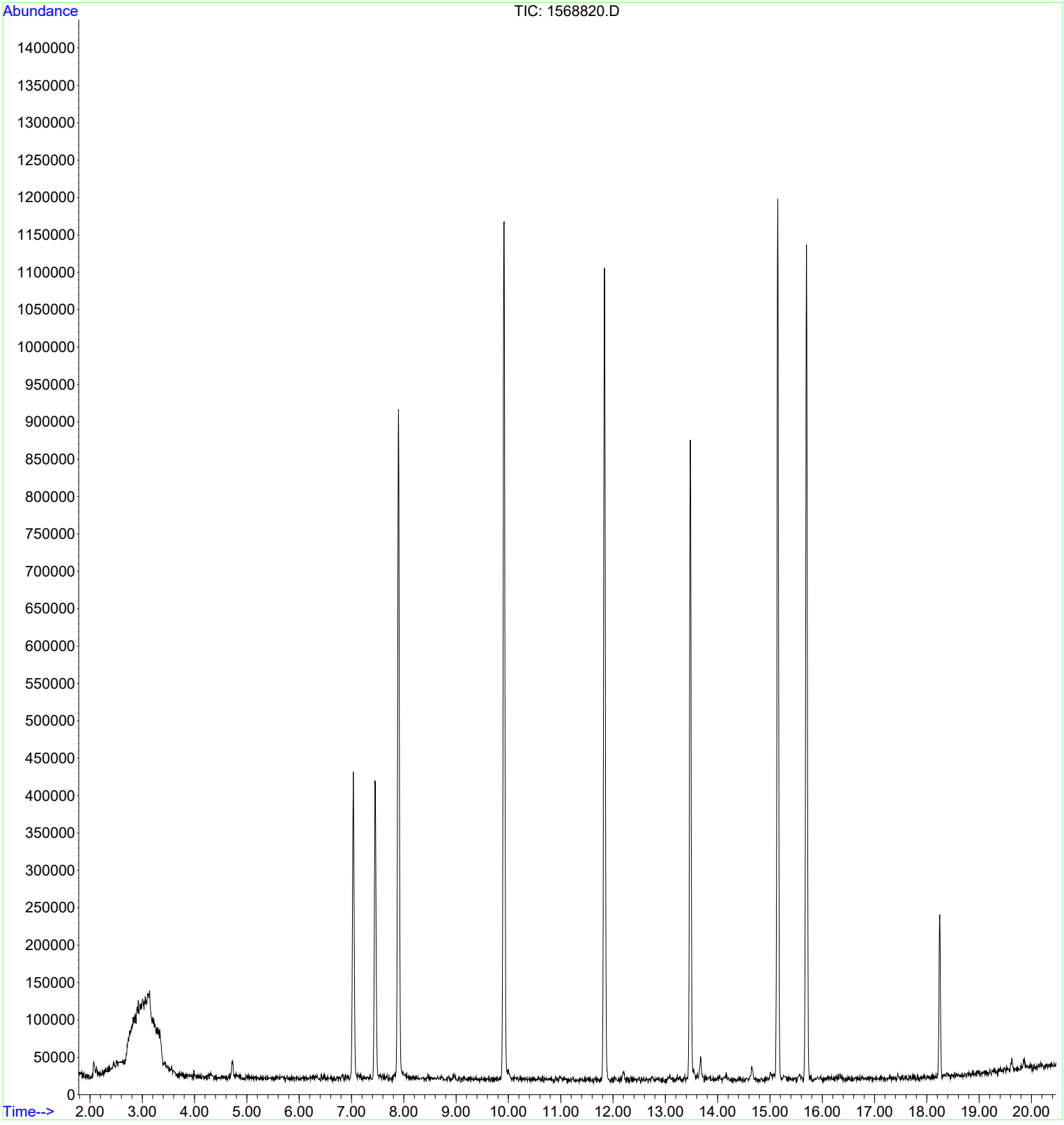
(#) = qualifier out of range (m) = manual integration

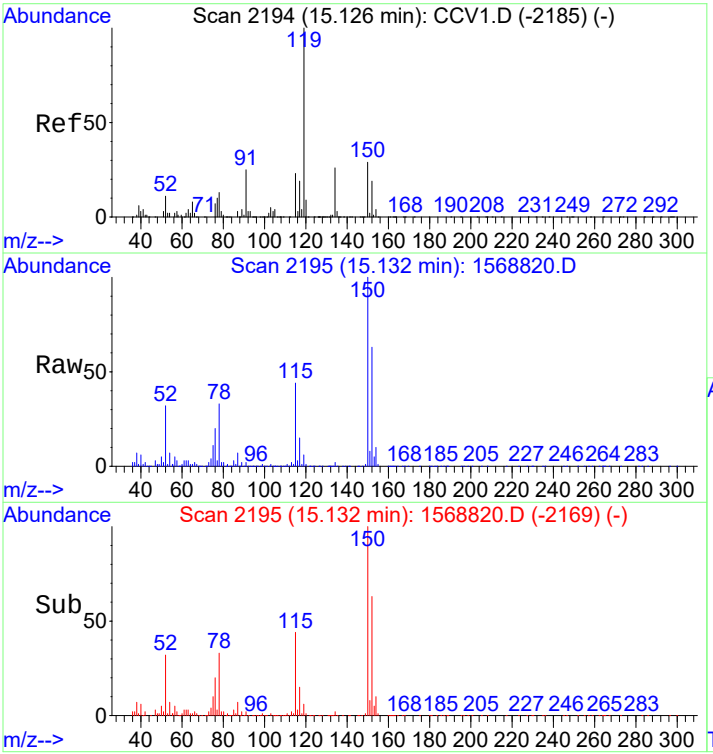
Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568820.D Vial: 16
Acq On : 7 Apr 2025 16:11 Operator: RLD-DGS
Sample : 290598,1568820, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 16:31:45 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

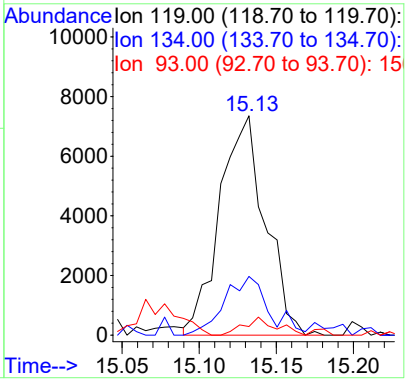


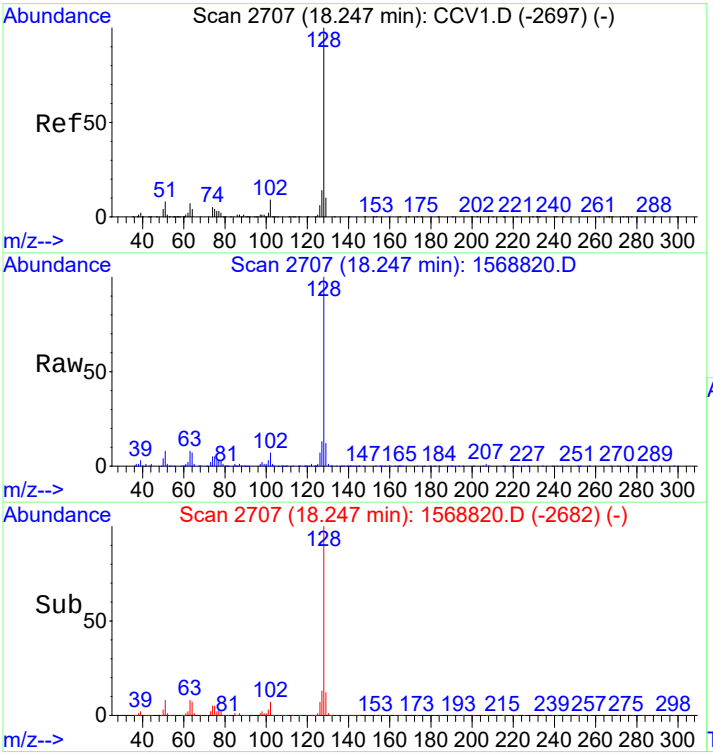



#95
pIsopropylto
Concen: 0.02 mg/kg
RT: 15.13 min Scan# 2195
Delta R.T. 0.01 min
Lab File: 1568820.D
Acq: 7 Apr 2025 16:11

Tgt Ion:119 Resp: 15129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 5.7 | 45.7 |
| 93 | 13.5 | 0.0 | 22.7 |

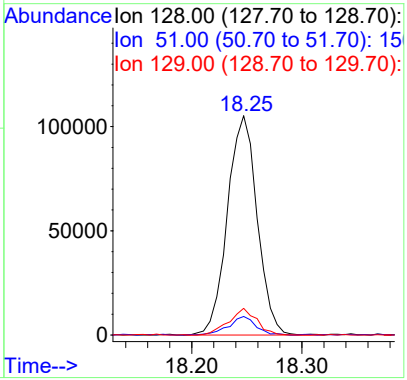



#103
Naphthalene
Concen: 0.33 mg/kg
RT: 18.25 min Scan# 2707
Delta R.T. -0.00 min
Lab File: 1568820.D
Acq: 7 Apr 2025 16:11

Tgt Ion:128 Resp: 197623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 51 | 7.8 | 0.0 | 29.7 |
| 129 | 11.3 | 0.0 | 30.4 |



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568821.D Vial: 17
Acq On : 7 Apr 2025 16:38 Operator: RLD-DGS
Sample : 290598,1568821, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 16:59:29 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 935121 | 1.00 mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 744686 | 1.00 mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 357751 | 1.00 mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 261094 | 1.036 mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 104 % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 59061 | 0.980 mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | |
| 60) SURRd8Tolule | 9.91 | 98 | 923426 | 1.001 mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 335971 | 0.977 mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | |
| 3) Chloromethan | 2.20 | 50 | 3410 | N.D. | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | |
| 5) Bromomethane | 2.83 | 94 | 2896 | Below Cal # | 54 |
| 6) Chloroethane | 2.90 | 64 | 2014 | 0.0338 mg/kg | 68 |
| 7) dichloroflmethane | 3.26 | 67 | 3965 | N.D. | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | |
| 10) dichlorotfluoroethan | 3.77 | 67 | 1196 | N.D. | |
| 11) propyleneoxide | 0.00 | 58 | 0 | N.D. | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | |
| 15) Acetone | 4.26 | 43 | 6751 | N.D. | |
| 16) Iodomethane | 4.32 | 127 | 1625 | N.D. | |
| 17) Carbon Dislf | 4.41 | 76 | 1134 | N.D. | |
| 18) allylchloride | 4.71 | 41 | 1133 | N.D. | |
| 19) methylacetate | 4.72 | 74 | 1402 | N.D. | |
| 20) Methylchlorid | 0.00 | 84 | 0 | N.D. | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | |
| 23) tbutylalcohol | 0.00 | 59 | 0 | N.D. | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | |
| 29) Diisopether | 5.97 | 45 | 1302 | N.D. | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | |
| 31) 22dichloropr | 6.44 | 77 | 1212 | N.D. | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | |
| 38) Tetrahydofur | 6.90 | 42 | 1071 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568821.D Vial: 17
Acq On : 7 Apr 2025 16:38 Operator: RLD-DGS
Sample : 290598,1568821, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 16:59:29 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 0.00 | 78 | 0 | N.D. | |
| 47) | 12dichlorota | 7.54 | 62 | 1068 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 9.13 | 43 | 1226 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 0.00 | 43 | 0 | N.D. | |
| 61) | Toluene | 0.00 | 92 | 0 | N.D. | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 10.97 | 43 | 1228 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 11.84 | 91 | 1977 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 0.00 | 91 | 0 | N.D. | |
| 75) | m p-Xylene | 0.00 | 106 | 0 | N.D. | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | |
| 81) | cyclohexanone | 13.46 | 55 | 1899 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 0.00 | 91 | 0 | N.D. | |
| 88) | 2chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 90) | 135Trimebenz | 0.00 | 105 | 0 | N.D. | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | |
| 92) | 124Trimetben | 14.65 | 105 | 1167 | N.D. | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) | pIsopropylto | 0.00 | 119 | 0 | N.D. | |
| 96) | 14dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 97) | 12dichlorobe | 15.72 | 146 | 1168 | N.D. | |
| 98) | nButylbenzen | 15.70 | 91 | 1502 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0725\1568821.D Vial: 17
Acq On : 7 Apr 2025 16:38 Operator: RLD-DGS
Sample : 290598,1568821, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 16:59:29 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) | Naphthalene | 18.25 | 128 | 11894 | 0.0211 | mg/kg# | 85 |
| 104) | 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

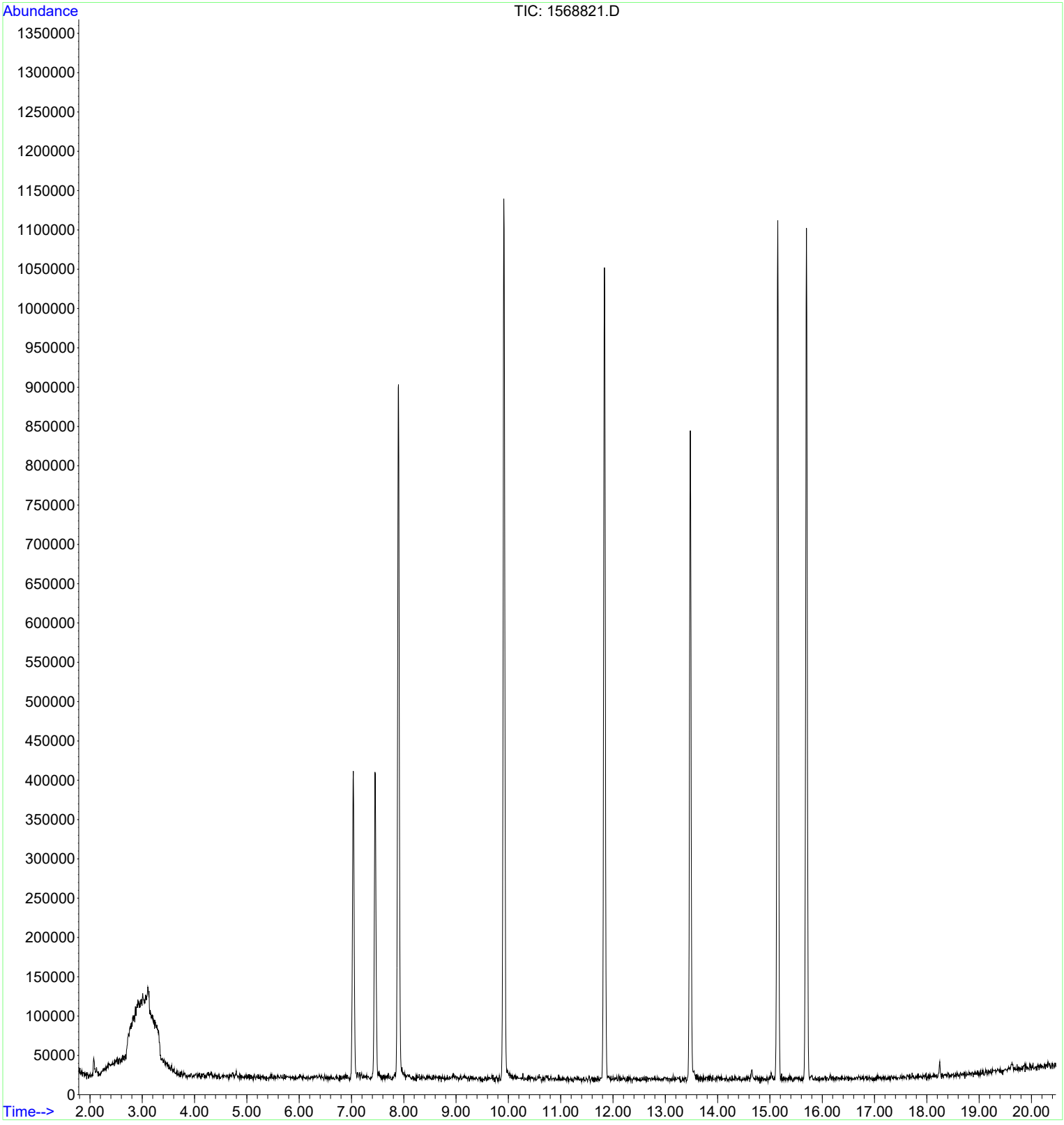
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568821.D Vial: 17
Acq On : 7 Apr 2025 16:38 Operator: RLD-DGS
Sample : 290598,1568821, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 16:59:29 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Library Search Compound Report

Data Path : C:\Instarch\Data\APR0725\
Data File : 1568821.D
Acq On : 7 Apr 2025 16:38
Operator : RLD-DGS
Sample : 290598,1568821,
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method

TIC Library : C:\DATABASE\NBS75K.L
TIC Integration Parameters: VOC.P

**********

Peak Number 1 Phosgene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.11 | 2.09 mg/kg | 4292670 | FLUOROBENZENE**IS | 2057040 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phosgene | 98 | CCl2O | 000075-44-5 | 47 |
| 2 | Benzene, 1-[(2-chloroethyl)sulfo... | 249 | C8H8ClNO4S | 006461-63-8 | 34 |
| 3 | Diethylpropion Hydrochloride | 205 | C13H19NO | 000134-80-5 | 28 |
| 4 | Thiohypophosphoric acid ((ho)2p(... | 290 | C8H20O5P2S | 005935-34-2 | 16 |
| 5 | Ethane, 1,1-dichloro- | 98 | C2H4Cl2 | 000075-34-3 | 14 |

**********

Peak Number 2 1,3-Butanedione, 1-phenyl-2... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 4.27 | 0.06 mg/kg | 119748 | FLUOROBENZENE**IS | 2057040 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Butanedione, 1-phenyl-2-[(ph... | 265 | C17H15NO2 | 000000-00-0 | 38 |
| 2 | Chlorbufam | 223 | C11H10ClNO2 | 001967-16-4 | 16 |
| 3 | 2-(2-Hydroxy-2-p-chlorophenyleth... | 276 | C15H17ClN2O | 000000-00-0 | 16 |
| 4 | Cyclodeca[b]furan-2(3H)-one, 3a,... | 232 | C15H20O2 | 000553-21-9 | 12 |
| 5 | Proclonol | 292 | C16H14Cl2O | 014088-71-2 | 11 |

**********

Peak Number 3 Ethanimidamide, N-[1-[(buty... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 5.72 | 0.12 mg/kg | 250952 | FLUOROBENZENE**IS | 2057040 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanimidamide, N-[1-[(butylchlo... | 270 | C8H14BCl3N2O | 070609-32-4 | 22 |
| 2 | Guanosine, 2'-O-methyl- | 297 | C11H15N5O5 | 002140-71-8 | 9 |
| 3 | Carbonochloridothioic acid, S-et... | 124 | C3H5ClOS | 002941-64-2 | 7 |
| 4 | 2-Hexenedioic acid, 2,4-dichloro... | 226 | C6H4Cl2O5 | 056771-78-9 | 7 |
| 5 | 9-Phenanthrenemethyl monochloroa... | 284 | C17H13ClO2 | 092174-37-3 | 5 |

**********

Peak Number 4 4-Pyridinecarboxamide Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 8.29 | 0.06 mg/kg | 120359 | FLUOROBENZENE**IS | 2057040 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Pyridinecarboxamide | 122 | C6H6N2O | 001453-82-3 | 10 |
| 2 | 1,2,3,4-Tetrahydrochrysene | 232 | C18H16 | 002091-90-9 | 9 |
| 3 | 8,9,10,11-Tetrahydrobenz[A]anthr... | 232 | C18H16 | 067064-62-4 | 9 |
| 4 | 1,2,3,4-Tetrahydrobenz[A]anthracene | 232 | C18H16 | 004483-98-1 | 9 |
| 5 | 2-(p-Chlorophenyl)-ethylamine | 155 | C8H10ClN | 000156-41-2 | 9 |

**********

Peak Number 5 1,4-Dichlorobenzene-d4 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 15.70 | 1.00 mg/kg | 2312840 | d4-1,4-DICHLOROBE | 2314700 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 150 | C6Cl2D4 | 003855-82-1 | 94 |
| 2 | Benzene-1,2,3,4-d4-, 5,6-dichloro- | 150 | C6Cl2D4 | 002199-69-1 | 94 |
| 3 | Benzo[b]thiophene-4-ol | 150 | C8H6OS | 003610-02-4 | 22 |
| 4 | 2H-1-Benzopyran-3-ol, 3,4-dihydro- | 150 | C9H10O2 | 021834-60-6 | 9 |
| 5 | 9-Borabicyclo[3.3.1]nonane, 9-et... | 150 | C10H19B | 052102-17-7 | 9 |

**********

Peak Number 6 1H-Indole, 2-methyl-3-phenyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 17.06 | 0.05 mg/kg | 117254 | d4-1,4-DICHLOROBE | 2314700 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indole, 2-methyl-3-phenyl- | 207 | C15H13N | 004757-69-1 | 16 |
| 2 | Guanosine, 2'-O-methyl- | 297 | C11H15N5O5 | 002140-71-8 | 9 |
| 3 | Acetamide, 2,2-dichloro- | 127 | C2H3Cl2NO | 000683-72-7 | 9 |
| 4 | Titanium tetrachloride | 188 | Cl4Ti | 007550-45-0 | 9 |
| 5 | 3-Methyl-2-phenylindole | 207 | C15H13N | 010257-92-8 | 7 |

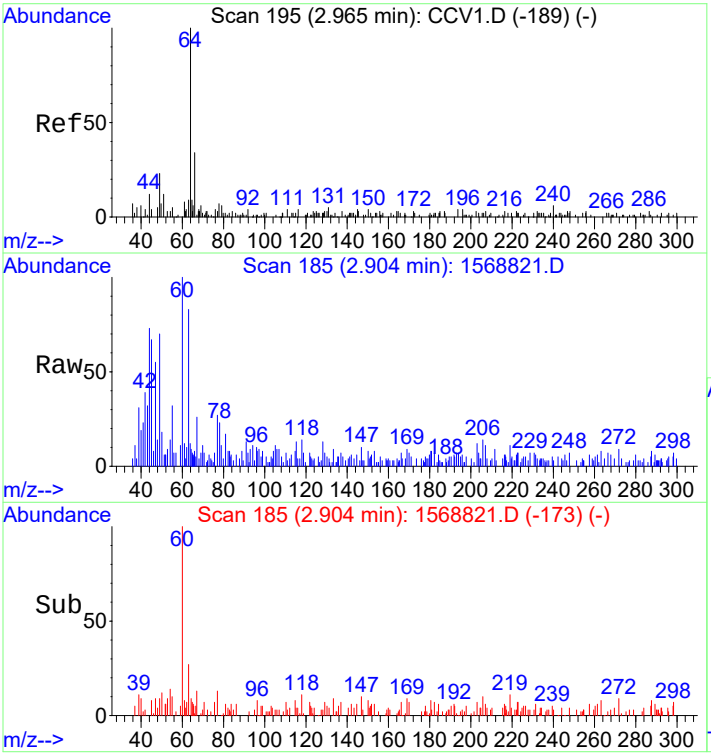
**********

Peak Number 7 1H-Indene, 1-ethylidene- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 19.63 | 0.33 mg/kg | 757270 | d4-1,4-DICHLOROBE | 2314700 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 27 |
| 2 | 2-Furanpropanoic acid, tetrahydr... | 284 | C18H20O3 | 025379-26-4 | 18 |
| 3 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 14 |
| 4 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 14 |
| 5 | trans-3-Ethoxy-.beta.-methyl-.be... | 207 | C11H13NO3 | 000000-00-0 | 11 |

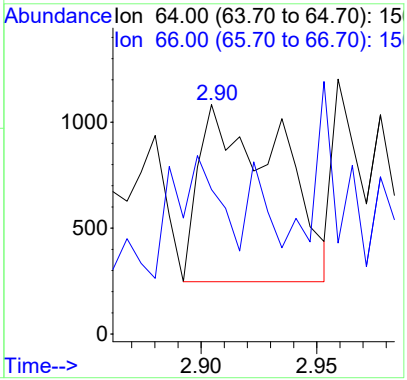
PS032525.M Mon Apr 14 14:44:35 2025



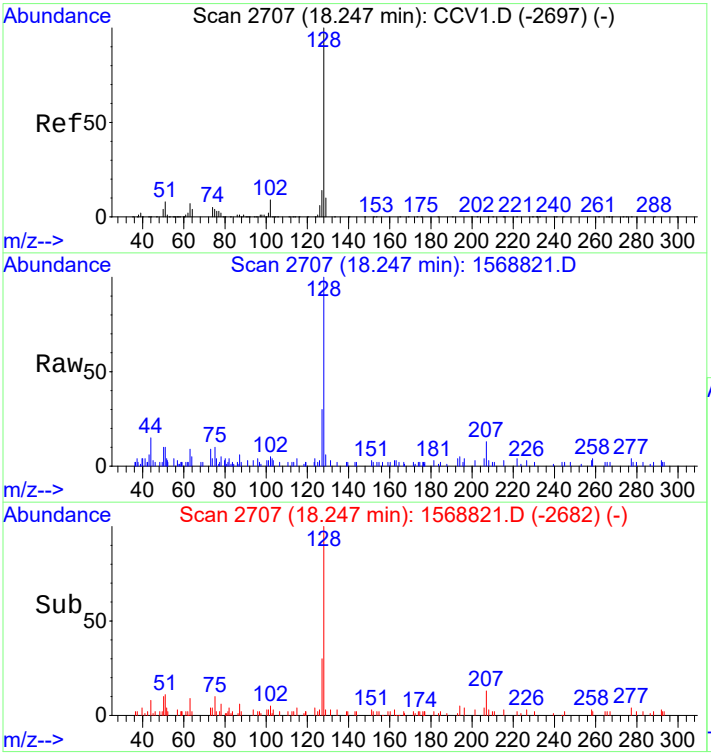

#6
Chloroethane
Concen: 0.03 mg/kg
RT: 2.90 min Scan# 185
Delta R.T. -0.08 min
Lab File: 1568821.D
Acq: 7 Apr 2025 16:38

Tgt Ion: 64 Resp: 2014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 55.0 | 16.2 | 56.2 |



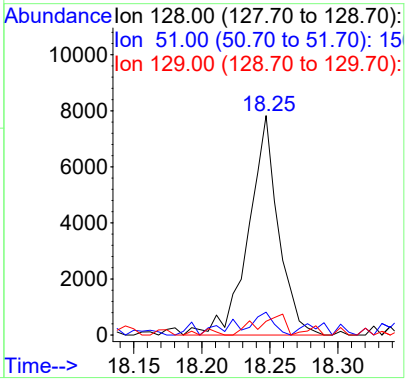

Negative Library Identification




#103
Naphthalene
Concen: 0.02 mg/kg
RT: 18.25 min Scan# 2707
Delta R.T. 0.00 min
Lab File: 1568821.D
Acq: 7 Apr 2025 16:38

Tgt Ion:128 Resp: 11894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 51 | 0.0 | 0.0 | 29.7 |
| 129 | 8.8 | 0.0 | 30.4 |



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568822.D Vial: 18
Acq On : 7 Apr 2025 17:07 Operator: RLD-DGS
Sample : 290598,1568822, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Low ISTD(s)

NOT USED

Quant Time: Apr 07 17:27:42 2025 Results File: PS032525.RES

Reanalyzed on seq. date 040825.

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 608468 | 1.00 mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 484367 | 1.00 mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 237257 | 1.00 mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 174788 | 1.066 mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 107 % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 38393 | 0.979 mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | |
| 60) SURRd8Tolule | 9.91 | 98 | 609351 | 1.015 mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 208637 | 0.915 mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 92 % | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | |
| 3) Chloromethan | 2.20 | 50 | 1510 | N.D. | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | |
| 5) Bromomethane | 2.83 | 94 | 5059 | Below Cal # | 59 |
| 6) Chloroethane | 2.91 | 64 | 1245 | 0.0321 mg/kg# | 16 |
| 7) dichloroflmethane | 3.25 | 67 | 2434 | N.D. | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | |
| 11) propyleneoxide | 0.00 | 58 | 0 | N.D. | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | |
| 15) Acetone | 4.28 | 43 | 3957 | N.D. | |
| 16) Iodomethane | 4.30 | 127 | 1630 | N.D. | |
| 17) Carbon Dislf | 4.39 | 76 | 2119 | N.D. | |
| 18) allylchloride | 0.00 | 41 | 0 | N.D. | |
| 19) methylacetate | 4.73 | 74 | 2124 | N.D. | |
| 20) Methylchlorid | 0.00 | 84 | 0 | N.D. | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | |
| 23) tbutylalcohol | 5.03 | 59 | 2748 | N.D. | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | |
| 31) 22dichloropr | 6.42 | 77 | 1040 | N.D. | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | |
| 38) Tetrahydofur | 6.89 | 42 | 1574 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568822.D Vial: 18
Acq On : 7 Apr 2025 17:07 Operator: RLD-DGS
Sample : 290598,1568822, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 17:27:42 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 0.00 | 78 | 0 | N.D. | |
| 47) | 12dichlorota | 0.00 | 62 | 0 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 0.00 | 43 | 0 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 9.83 | 43 | 1028 | N.D. | |
| 61) | Toluene | 10.01 | 92 | 1994 | N.D. | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 0.00 | 43 | 0 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 11.85 | 91 | 1347 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 0.00 | 91 | 0 | N.D. | |
| 75) | m p-Xylene | 0.00 | 106 | 0 | N.D. | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | |
| 81) | cyclohexanone | 13.48 | 55 | 1392 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 13.86 | 91 | 1071 | N.D. | |
| 88) | 2chlorotolue | 13.86 | 91 | 1071 | N.D. | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 90) | 135Trimebenz | 0.00 | 105 | 0 | N.D. | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | |
| 92) | 124Trimetben | 0.00 | 105 | 0 | N.D. | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) | pIsopropylto | 0.00 | 119 | 0 | N.D. | |
| 96) | 14dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 97) | 12dichlorobe | 15.71 | 146 | 1171 | N.D. | |
| 98) | nButylbenzen | 15.72 | 91 | 1359 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0725\1568822.D Vial: 18
Acq On : 7 Apr 2025 17:07 Operator: RLD-DGS
Sample : 290598,1568822, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 17:27:42 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) | Naphthalene | 18.24 | 128 | 60987 | 0.1634 | mg/kg | 97 |
| 104) | 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

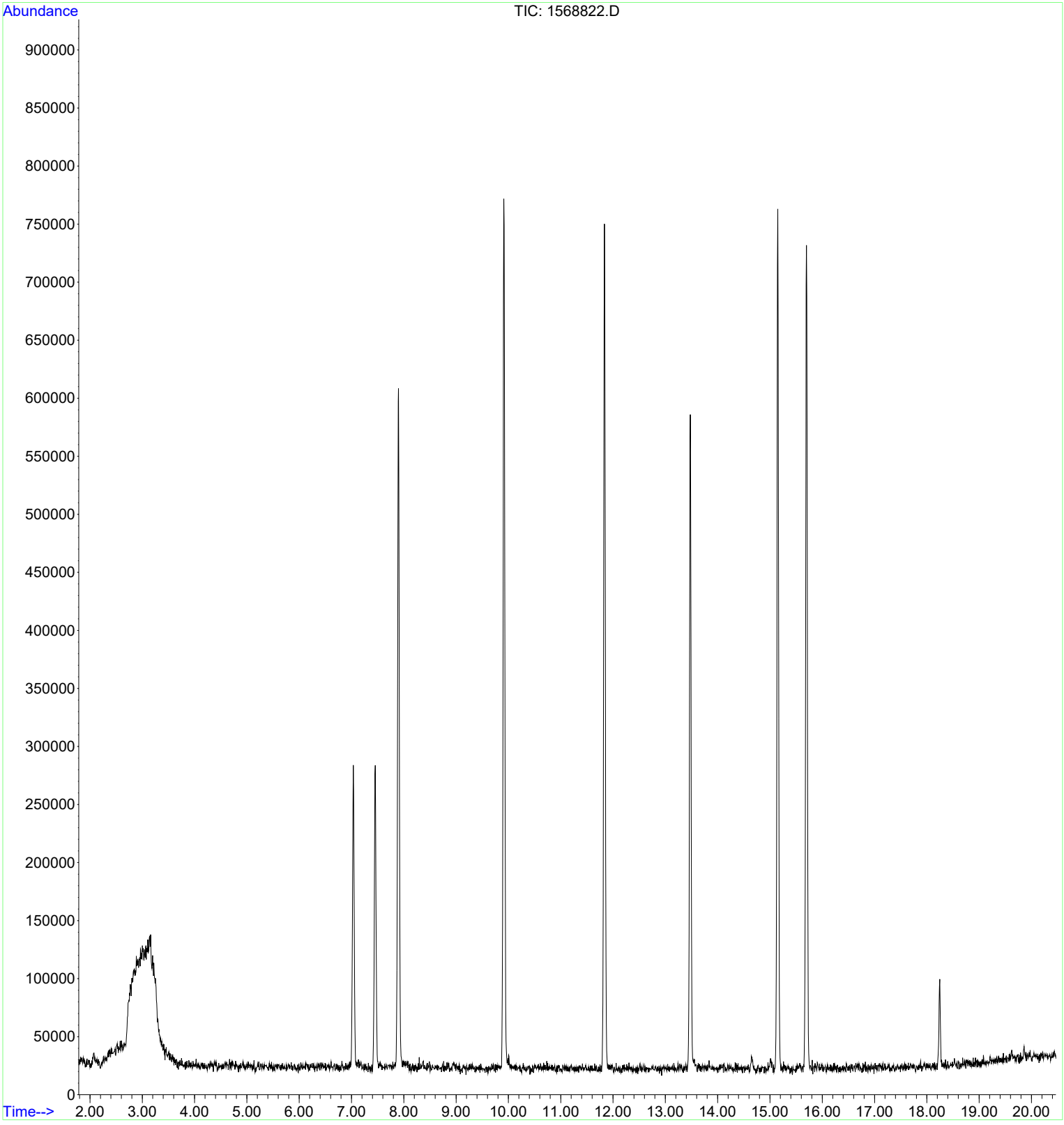
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568822.D Vial: 18
Acq On : 7 Apr 2025 17:07 Operator: RLD-DGS
Sample : 290598,1568822, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 17:27:42 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568823.D Vial: 19
Acq On : 7 Apr 2025 17:34 Operator: RLD-DGS
Sample : 290598,1568823, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Low ISTD(s)

NOT USED

Quant Time: Apr 07 17:55:30 2025 Results File: PS032525.RES

Reanalyzed on seq. date 040825.

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 607656 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 486651 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 230186 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 175326 | 1.071 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 107 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 40580 | 1.037 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 104 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 603817 | 1.007 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 212315 | 0.960 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 96 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.19 | 50 | 1944 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.83 | 94 | 6578 | N.D. | | |
| 6) Chloroethane | 2.97 | 64 | 1691 | 0.0436 | mg/kg# | 39 |
| 7) dichloroflmethane | 3.29 | 67 | 2228 | N.D. | | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 0.00 | 58 | 0 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.29 | 43 | 4149 | N.D. | | |
| 16) Iodomethane | 4.32 | 127 | 1179 | N.D. | | |
| 17) Carbon Dislf | 0.00 | 76 | 0 | N.D. | | |
| 18) allylchloride | 4.61 | 41 | 1240 | N.D. | | |
| 19) methylacetate | 4.73 | 74 | 1963 | N.D. | | |
| 20) Methylchlorid | 4.81 | 84 | 1539 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 0.00 | 59 | 0 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 5.56 | 57 | 1375 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.46 | 77 | 1488 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 0.00 | 42 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568823.D Vial: 19
Acq On : 7 Apr 2025 17:34 Operator: RLD-DGS
Sample : 290598,1568823, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 17:55:30 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | | |
| 46) | Benzene | 0.00 | 78 | 0 | N.D. | | |
| 47) | 12dichlorota | 0.00 | 62 | 0 | N.D. | | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | | |
| 50) | methylcyclohexane | 8.64 | 83 | 4289 | 0.0174 | mg/kg | 92 |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | | |
| 57) | 2Nitropropane | 9.30 | 43 | 1491 | N.D. | | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | | |
| 59) | 4Meth2Pentan | 0.00 | 43 | 0 | N.D. | | |
| 61) | Toluene | 10.02 | 92 | 4684 | N.D. | | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | | |
| 68) | 2Hexanone | 10.83 | 43 | 1855 | N.D. | | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | | |
| 72) | 1Clhexane | 11.83 | 91 | 1736 | N.D. | | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | | |
| 74) | Ethylbenzene | 12.03 | 91 | 3176 | N.D. | | |
| 75) | m p-Xylene | 12.21 | 106 | 4639 | N.D. | | |
| 76) | o-Xylene | 12.75 | 106 | 1748 | N.D. | | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | | |
| 81) | cyclohexanone | 13.48 | 55 | 1793 | N.D. | | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | | |
| 87) | n-Propylbenz | 13.85 | 91 | 2767 | N.D. | | |
| 88) | 2chlorotolue | 13.85 | 91 | 1882 | N.D. | | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | | |
| 90) | 135Trimebenz | 14.13 | 105 | 1004 | N.D. | | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | | |
| 92) | 124Trimetben | 14.65 | 105 | 3843 | N.D. | | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | | |
| 94) | 13Diclorbenz | 15.14 | 146 | 1255 | N.D. | | |
| 95) | pIsopropylto | 15.11 | 119 | 1448 | N.D. | | |
| 96) | 14dichlorobe | 15.14 | 146 | 1255 | N.D. | | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | | |
| 98) | nButylbenzen | 15.69 | 91 | 2282 | N.D. | | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0725\1568823.D Vial: 19
Acq On : 7 Apr 2025 17:34 Operator: RLD-DGS
Sample : 290598,1568823, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 17:55:30 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) | Naphthalene | 18.25 | 128 | 38914 | 0.1074 | mg/kg | 93 |
| 104) | 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

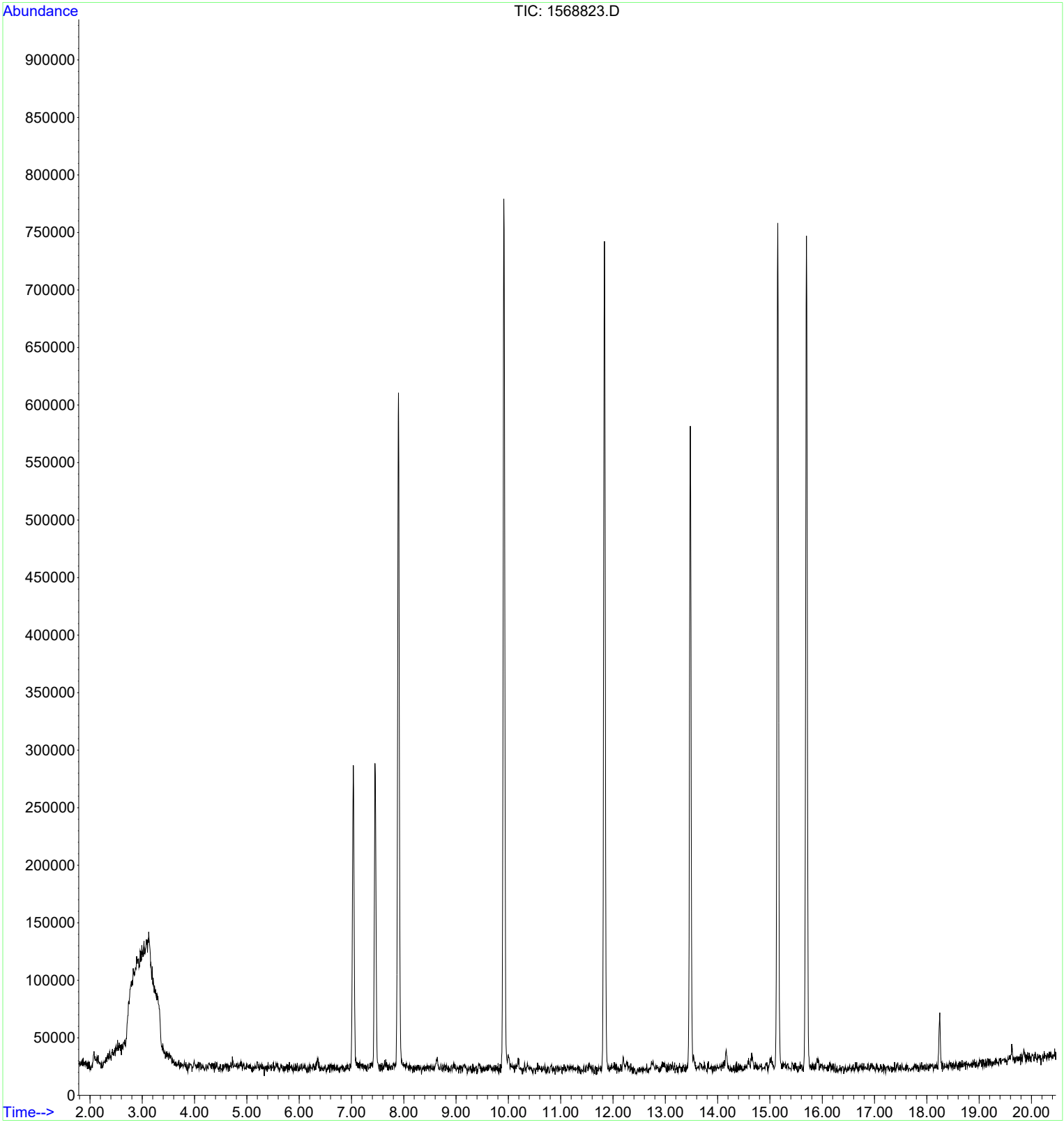
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568823.D Vial: 19
Acq On : 7 Apr 2025 17:34 Operator: RLD-DGS
Sample : 290598,1568823, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 17:55:30 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Low ISTD(s)

NOT USED

Reanalyzed on seq. date 040825.

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568828.D Vial: 20
Acq On : 7 Apr 2025 18:02 Operator: RLD-DGS
Sample : 290598,1568828, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 18:23:12 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 592967 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 483881 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 226973 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 167581 | 1.049 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 105 % | | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 36155 | 0.946 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 95 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 591737 | 1.012 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 203591 | 0.933 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 93 % | | | |

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 1270 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.83 | 94 | 5301 | Below Cal # | | 33 |
| 6) Chloroethane | 2.97 | 64 | 4329 | 0.1145 | mg/kg | 93 |
| 7) dichloroflmethane | 3.28 | 67 | 1353 | Below Cal # | | 11 |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 0.00 | 58 | 0 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.27 | 43 | 4145 | N.D. | | |
| 16) Iodomethane | 0.00 | 127 | 0 | N.D. | | |
| 17) Carbon Dislf | 4.39 | 76 | 1093 | N.D. | | |
| 18) allylchloride | 4.63 | 41 | 1596 | N.D. | | |
| 19) methylacetate | 4.71 | 74 | 13778 | 0.1189 | mg/kg | 92 |
| 20) Methylchlorid | 4.78 | 84 | 1303 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 5.03 | 59 | 1188 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.33 | 77 | 1077 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 0.00 | 42 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568828.D Vial: 20
Acq On : 7 Apr 2025 18:02 Operator: RLD-DGS
Sample : 290598,1568828, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 18:23:12 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | | |
| 46) | Benzene | 0.00 | 78 | 0 | N.D. | | |
| 47) | 12dichlorota | 0.00 | 62 | 0 | N.D. | | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | | |
| 49) | trichloroete | 8.37 | 95 | 6598 | 0.0417 | mg/kg# | 85 |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | | |
| 57) | 2Nitropropane | 0.00 | 43 | 0 | N.D. | | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | | |
| 59) | 4Meth2Pentan | 0.00 | 43 | 0 | N.D. | | |
| 61) | Toluene | 9.91 | 92 | 1088 | N.D. | | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | | |
| 65) | Tetrachlorte | 10.75 | 166 | 21183 | 0.1299 | mg/kg | 97 |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | | |
| 68) | 2Hexanone | 10.74 | 43 | 1248 | N.D. | | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | | |
| 72) | 1Clhexane | 0.00 | 91 | 0 | N.D. | | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | | |
| 74) | Ethylbenzene | 0.00 | 91 | 0 | N.D. | | |
| 75) | m p-Xylene | 0.00 | 106 | 0 | N.D. | | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | | |
| 81) | cyclohexanone | 13.50 | 55 | 1209 | N.D. | | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | | |
| 87) | n-Propylbenz | 0.00 | 91 | 0 | N.D. | | |
| 88) | 2chlorotolue | 0.00 | 91 | 0 | N.D. | | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | | |
| 90) | 135Trimebenz | 0.00 | 105 | 0 | N.D. | | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | | |
| 92) | 124Trimetben | 0.00 | 105 | 0 | N.D. | | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | | |
| 94) | 13Diclorbenz | 15.14 | 146 | 1525 | N.D. | | |
| 95) | pIsopropylto | 15.13 | 119 | 3135 | N.D. | | |
| 96) | 14dichlorobe | 15.14 | 146 | 1525 | N.D. | | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | | |
| 98) | nButylbenzen | 15.71 | 91 | 1198 | N.D. | | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568828.D Vial: 20
Acq On : 7 Apr 2025 18:02 Operator: RLD-DGS
Sample : 290598,1568828, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 18:23:12 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) Naphthalene | 18.25 | 128 | 18318 | 0.0513 | mg/kg | 93 |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

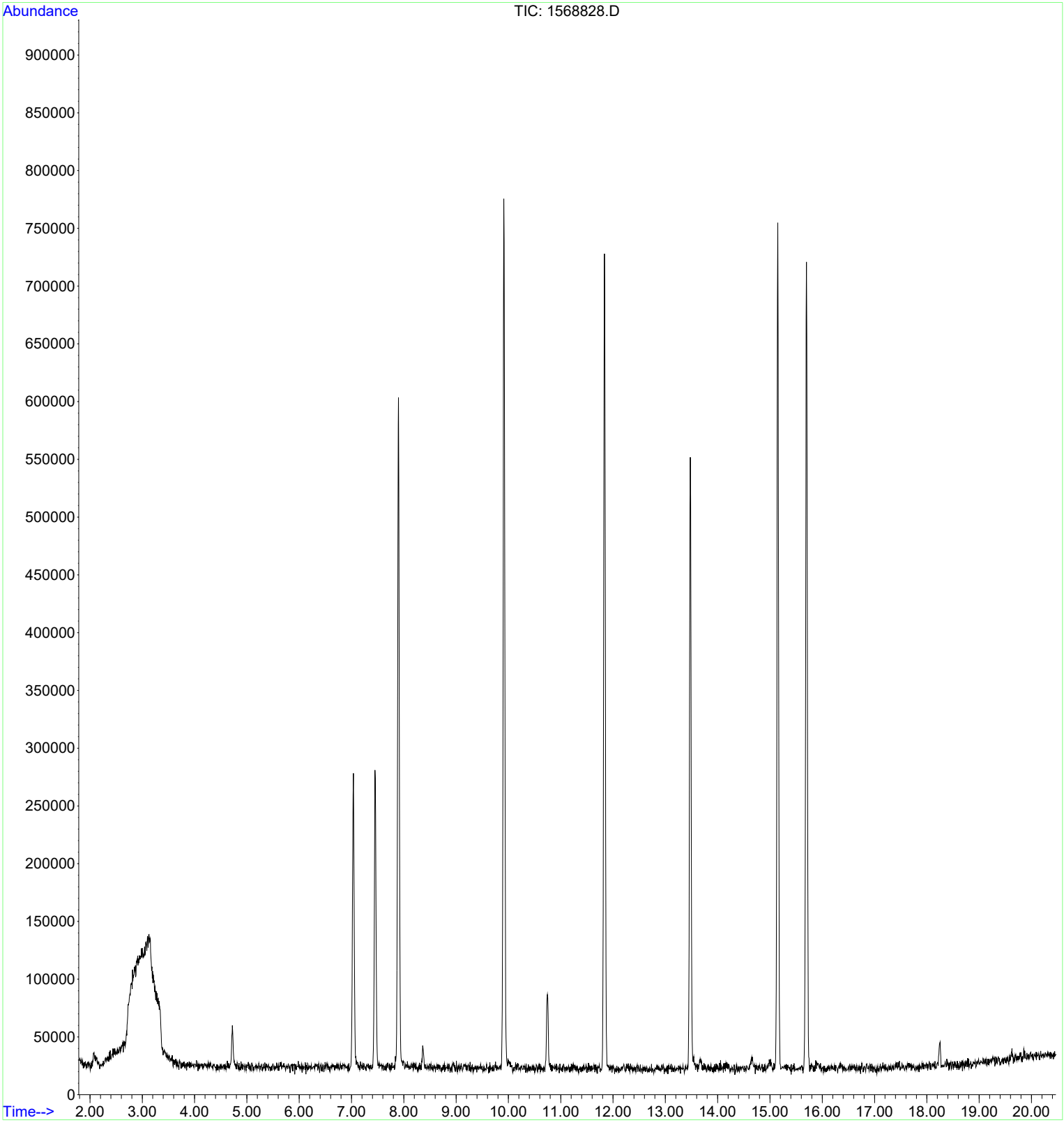
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568828.D Vial: 20
Acq On : 7 Apr 2025 18:02 Operator: RLD-DGS
Sample : 290598,1568828, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 18:23:12 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568830.D Vial: 21
Acq On : 7 Apr 2025 18:30 Operator: RLD-DGS
Sample : 290598,1568830, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Low ISTD(s)

NOT USED

Quant Time: Apr 07 18:51:05 2025 Results File: PS032525.RES

Reanalyzed on seq. date 040825.

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 590809 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 478820 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 232543 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 169766 | 1.067 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 107 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 36886 | 0.969 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 97 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 594590 | 1.020 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 102 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 209573 | 0.938 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 94 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 0.00 | 50 | 0 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.82 | 94 | 1543 | Below | Cal | 85 |
| 6) Chloroethane | 2.99 | 64 | 6590 | 0.1749 | mg/kg | 68 |
| 7) dichloroflmethane | 3.37 | 67 | 1064 | Below | Cal # | 49 |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 0.00 | 58 | 0 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.26 | 43 | 4181 | N.D. | | |
| 16) Iodomethane | 4.31 | 127 | 1077 | N.D. | | |
| 17) Carbon Dislf | 4.42 | 76 | 1503 | N.D. | | |
| 18) allylchloride | 4.57 | 41 | 1399 | N.D. | | |
| 19) methylacetate | 4.73 | 74 | 2072 | N.D. | | |
| 20) Methylchlorid | 0.00 | 84 | 0 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 0.00 | 59 | 0 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 5.82 | 43 | 1824 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.51 | 77 | 1391 | N.D. | | |
| 32) c12dichlorte | 6.48 | 96 | 3173 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 0.00 | 42 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568830.D Vial: 21
Acq On : 7 Apr 2025 18:30 Operator: RLD-DGS
Sample : 290598,1568830, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 18:51:05 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | | |
| 46) | Benzene | 0.00 | 78 | 0 | N.D. | | |
| 47) | 12dichlorota | 0.00 | 62 | 0 | N.D. | | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | | |
| 49) | trichloroete | 8.37 | 95 | 14016 | 0.0889 | mg/kg | 93 |
| 50) | methylcyclohexane | 8.63 | 83 | 1117 | N.D. | | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | | |
| 52) | 23dicl1propene | 8.60 | 75 | 1063 | N.D. | | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | | |
| 57) | 2Nitropropane | 0.00 | 43 | 0 | N.D. | | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | | |
| 59) | 4Meth2Pentan | 0.00 | 43 | 0 | N.D. | | |
| 61) | Toluene | 10.00 | 92 | 3740 | N.D. | | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | | |
| 65) | Tetrachlorte | 10.75 | 166 | 46658 | 0.2871 | mg/kg | 98 |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | | |
| 68) | 2Hexanone | 10.83 | 43 | 1070 | N.D. | | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | | |
| 72) | 1Clhexane | 11.84 | 91 | 1824 | N.D. | | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | | |
| 74) | Ethylbenzene | 12.04 | 91 | 6538 | N.D. | | |
| 75) | m p-Xylene | 12.19 | 106 | 7752 | 0.0279 | mg/kg | 96 |
| 76) | o-Xylene | 12.74 | 106 | 3291 | 0.0125 | mg/kg# | 85 |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 79) | Isopropylben | 13.28 | 105 | 1220 | N.D. | | |
| 81) | cyclohexanone | 13.33 | 55 | 1151 | N.D. | | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | | |
| 87) | n-Propylbenz | 13.85 | 91 | 1744 | N.D. | | |
| 88) | 2chlorotolue | 13.99 | 91 | 1493 | N.D. | | |
| 89) | 4chlorotolue | 14.03 | 91 | 1210 | N.D. | | |
| 90) | 135Trimebenz | 14.12 | 105 | 2489 | N.D. | | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | | |
| 92) | 124Trimetben | 14.66 | 105 | 7080 | 0.0133 | mg/kg | 76 |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | | |
| 94) | 13Diclorbenz | 15.15 | 146 | 1017 | N.D. | | |
| 95) | pIsopropylto | 15.04 | 119 | 1124 | N.D. | | |
| 96) | 14dichlorobe | 15.15 | 146 | 1017 | N.D. | | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | | |
| 98) | nButylbenzen | 15.71 | 91 | 1117 | N.D. | | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0725\1568830.D Vial: 21
Acq On : 7 Apr 2025 18:30 Operator: RLD-DGS
Sample : 290598,1568830, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 18:51:05 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | |
| 103) Naphthalene | 18.25 | 128 | 4252 | N.D. | |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | |

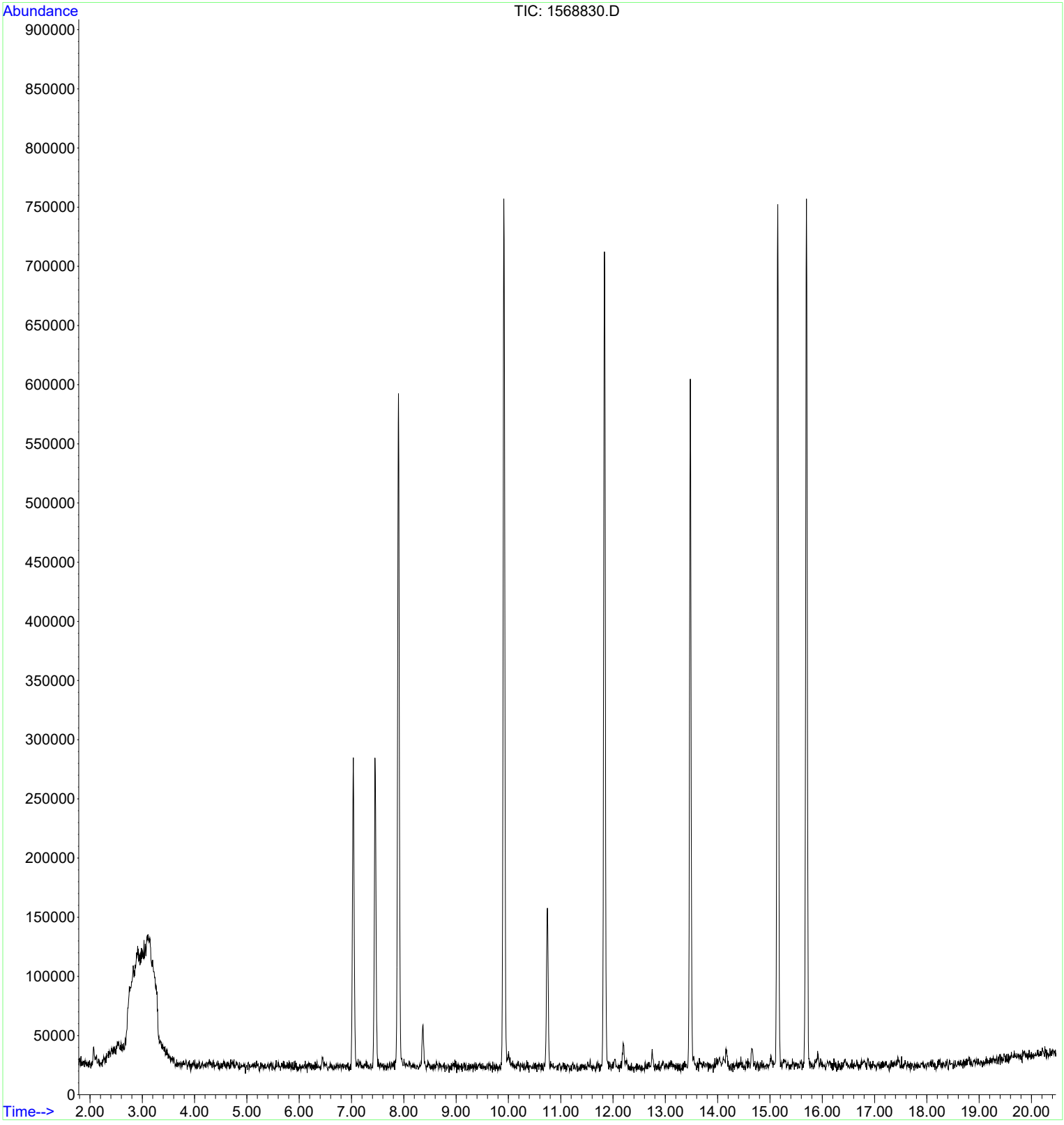
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568830.D Vial: 21
Acq On : 7 Apr 2025 18:30 Operator: RLD-DGS
Sample : 290598,1568830, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 18:51:05 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Low ISTD(s)

NOT USED

Reanalyzed on seq. date 040825.

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568846.D Vial: 22
Acq On : 7 Apr 2025 18:58 Operator: RLD-DGS
Sample : 290598,1568846, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 19:18:59 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 592918 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 483693 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 227445 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.03 | 113 | 167999 | 1.052 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 105 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 41806 | 1.094 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 109 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 596101 | 1.019 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 102 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 205035 | 0.938 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 94 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 1746 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.85 | 94 | 2967 | Below | Cal # | 66 |
| 6) Chloroethane | 2.86 | 64 | 1814 | 0.0480 | mg/kg# | 39 |
| 7) dichloroflmethane | 3.26 | 67 | 1049 | Below | Cal # | 1 |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 0.00 | 58 | 0 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.28 | 43 | 4645 | N.D. | | |
| 16) Iodomethane | 4.32 | 127 | 1565 | N.D. | | |
| 17) Carbon Dislf | 0.00 | 76 | 0 | N.D. | | |
| 18) allylchloride | 4.66 | 41 | 1759 | N.D. | | |
| 19) methylacetate | 4.73 | 74 | 3113 | N.D. | | |
| 20) Methylchlorid | 0.00 | 84 | 0 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 0.00 | 59 | 0 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.42 | 77 | 1771 | N.D. | | |
| 32) c12dichlorte | 6.44 | 96 | 2722 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.90 | 42 | 1533 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568846.D Vial: 22
Acq On : 7 Apr 2025 18:58 Operator: RLD-DGS
Sample : 290598,1568846, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 19:18:59 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 7.56 | 78 | 1161 | N.D. | |
| 47) | 12dichlorota | 7.56 | 62 | 1278 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 8.36 | 95 | 11757 | 0.0743 mg/kg | 92 |
| 50) | methylcyclohexane | 8.62 | 83 | 1172 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 0.00 | 43 | 0 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 9.80 | 43 | 1576 | N.D. | |
| 61) | Toluene | 10.00 | 92 | 4566 | N.D. | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 10.75 | 166 | 23939 | 0.1468 mg/kg | 99 |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 0.00 | 43 | 0 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 11.84 | 91 | 1599 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 12.05 | 91 | 4556 | N.D. | |
| 75) | m p-Xylene | 12.20 | 106 | 4732 | N.D. | |
| 76) | o-Xylene | 12.74 | 106 | 2975 | 0.0112 mg/kg# | 56 |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | |
| 81) | cyclohexanone | 0.00 | 55 | 0 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 13.86 | 91 | 1020 | N.D. | |
| 88) | 2chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 90) | 135Trimebenz | 13.99 | 105 | 1478 | N.D. | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | |
| 92) | 124Trimetben | 14.68 | 105 | 3261 | N.D. | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) | pIsopropylto | 15.13 | 119 | 1167 | N.D. | |
| 96) | 14dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 98) | nButylbenzen | 0.00 | 91 | 0 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568846.D Vial: 22
Acq On : 7 Apr 2025 18:58 Operator: RLD-DGS
Sample : 290598,1568846, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 19:18:59 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | |
| 103) Naphthalene | 18.24 | 128 | 2921 | N.D. | |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | |

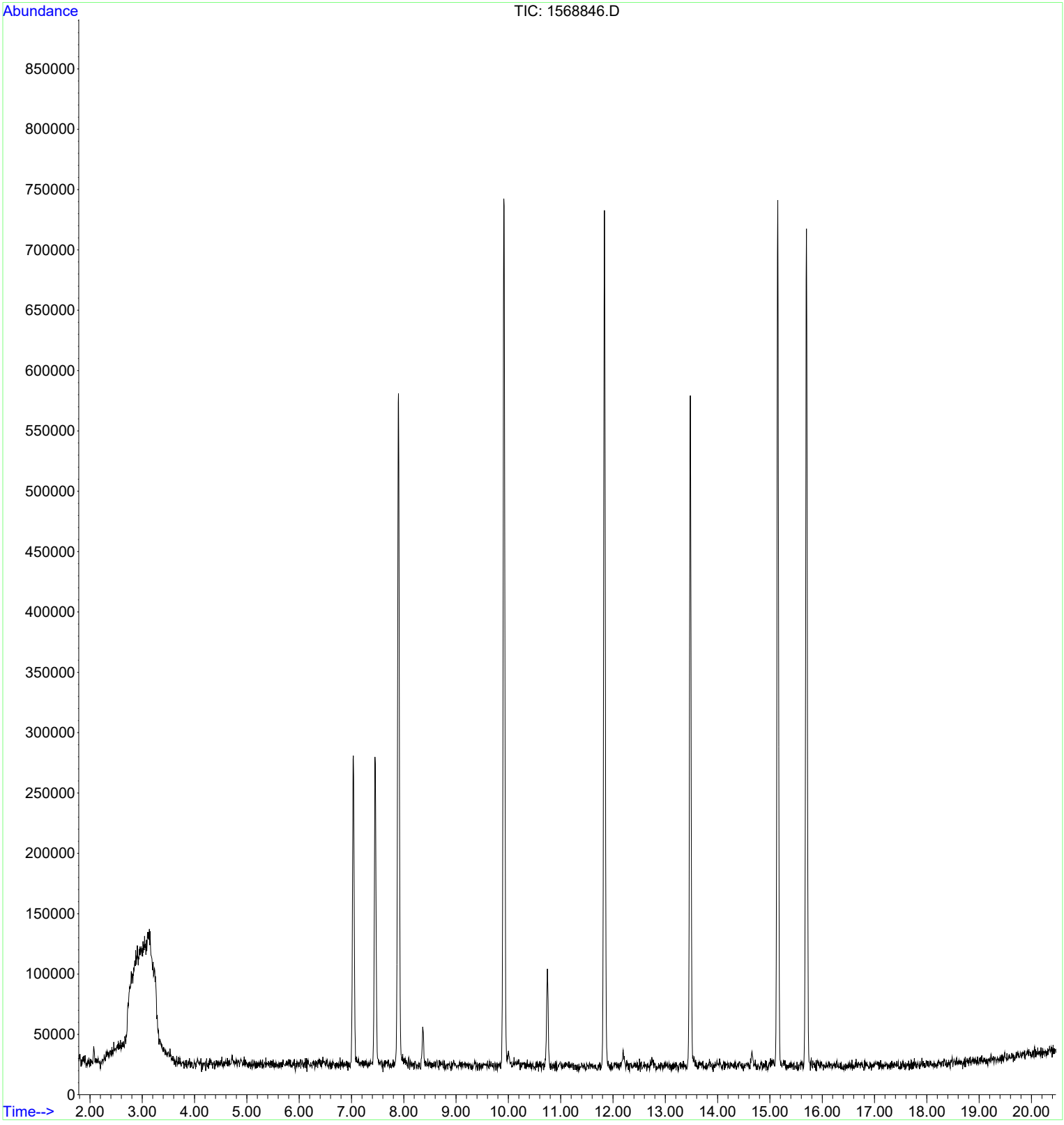
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568846.D Vial: 22
Acq On : 7 Apr 2025 18:58 Operator: RLD-DGS
Sample : 290598,1568846, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 19:18:59 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568822R.D Vial: 10
Acq On : 8 Apr 2025 12:51 Operator: RLD-DGS
Sample : 290598,1568822, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Report

Quant Time: Apr 08 13:11:46 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

See seq. date 040725 for original analysis.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1024213 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 847633 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 412166 | 1.00 | mg/kg | 0.00 NA% |

| System Monitoring Compounds | | | | | | |
|---|---|---|---|---|---|---|
| 41) SURRDibrflma | 7.04 | 113 | 287411 | 1.042 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 104 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 64135 | 0.972 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 97 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1017888 | 1.008 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 393448 | 0.993 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.19 | 50 | 4192 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.83 | 94 | 4316 | Below | Cal # | 39 |
| 6) Chloroethane | 2.93 | 64 | 2833 | 0.0434 | mg/kg | 69 |
| 7) dichloroflmethane | 3.35 | 67 | 1113 | Below | Cal # | 1 |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 4.10 | 58 | 1526 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.28 | 43 | 11139 | N.D. | | |
| 16) Iodomethane | 4.31 | 127 | 3628 | N.D. | | |
| 17) Carbon Dislf | 4.39 | 76 | 1813 | N.D. | | |
| 18) allylchloride | 4.58 | 41 | 1743 | N.D. | | |
| 19) methylacetate | 4.73 | 74 | 2620 | N.D. | | |
| 20) Methylchlorid | 0.00 | 84 | 0 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 5.03 | 59 | 3581 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 5.76 | 43 | 1019 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 5.86 | 45 | 1912 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 0.00 | 77 | 0 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.89 | 42 | 2145 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568822R.D Vial: 10
Acq On : 8 Apr 2025 12:51 Operator: RLD-DGS
Sample : 290598,1568822, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 13:11:46 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | | |
| 46) | Benzene | 7.57 | 78 | 1391 | N.D. | | |
| 47) | 12dichlorota | 7.53 | 62 | 1280 | N.D. | | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | | |
| 50) | methylcyclohexane | 8.63 | 83 | 1541 | N.D. | | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | | |
| 57) | 2Nitropropane | 0.00 | 43 | 0 | N.D. | | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | | |
| 59) | 4Meth2Pentan | 9.75 | 43 | 1806 | N.D. | | |
| 61) | Toluene | 10.00 | 92 | 4234 | N.D. | | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | | |
| 68) | 2Hexanone | 10.83 | 43 | 1381 | N.D. | | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | | |
| 72) | 1Clhexane | 11.84 | 91 | 2247 | N.D. | | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | | |
| 74) | Ethylbenzene | 12.02 | 91 | 1636 | N.D. | | |
| 75) | m p-Xylene | 0.00 | 106 | 0 | N.D. | | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | | |
| 81) | cyclohexanone | 13.36 | 55 | 1035 | N.D. | | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | | |
| 84) | 1122Tetrclta | 13.64 | 83 | 1409 | N.D. | | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | | |
| 87) | n-Propylbenz | 0.00 | 91 | 0 | N.D. | | |
| 88) | 2chlorotolue | 0.00 | 91 | 0 | N.D. | | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | | |
| 90) | 135Trimebenz | 14.12 | 105 | 1618 | N.D. | | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | | |
| 92) | 124Trimetben | 14.65 | 105 | 2283 | N.D. | | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | | |
| 95) | pIsopropylto | 0.00 | 119 | 0 | N.D. | | |
| 96) | 14dichlorobe | 0.00 | 146 | 0 | N.D. | | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | | |
| 98) | nButylbenzen | 15.70 | 91 | 2597 | N.D. | | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568822R.D Vial: 10
Acq On : 8 Apr 2025 12:51 Operator: RLD-DGS
Sample : 290598,1568822, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 13:11:46 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

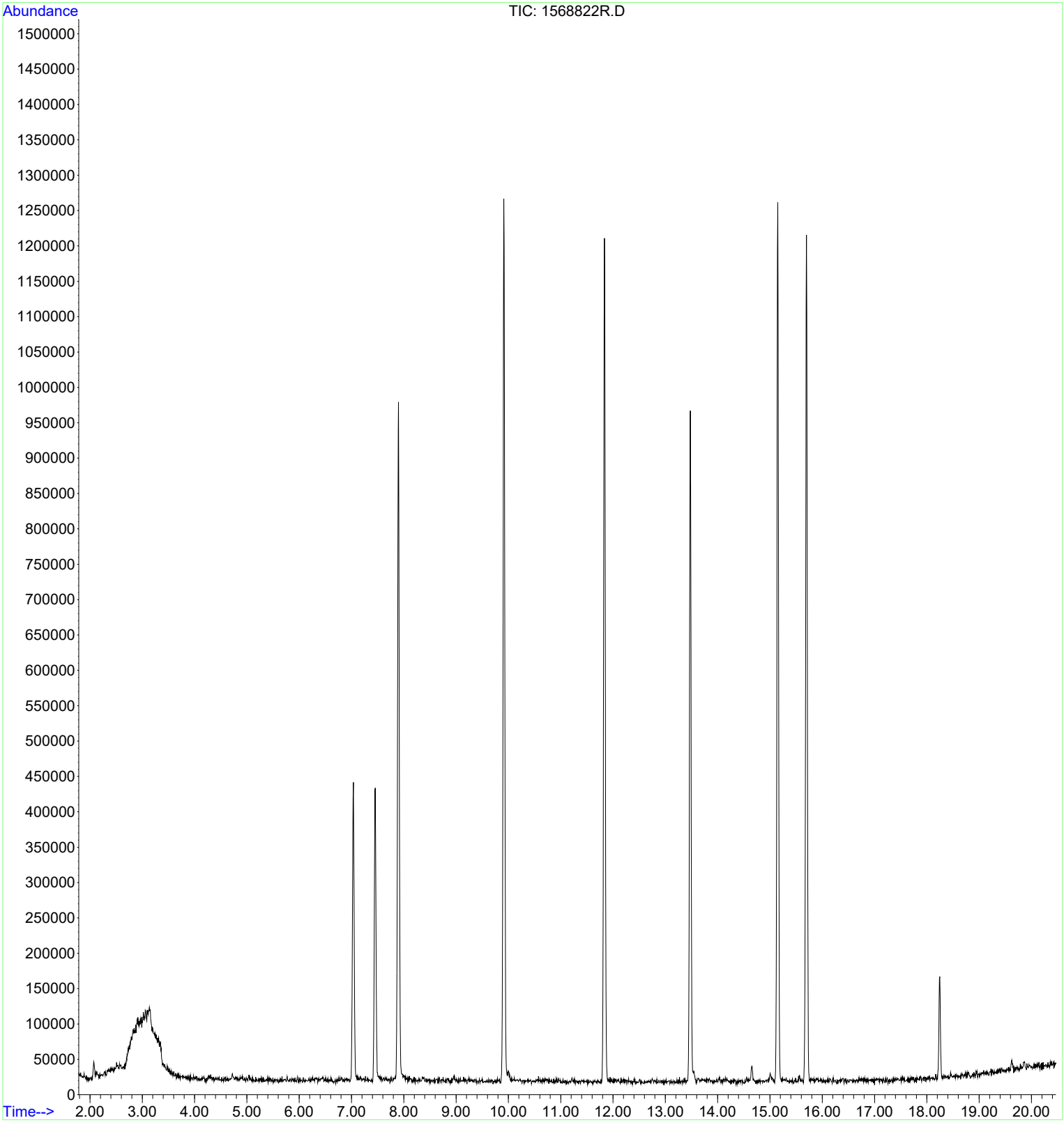
| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) | Naphthalene | 18.25 | 128 | 134332 | 0.2071 | mg/kg | 94 |
| 104) | 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

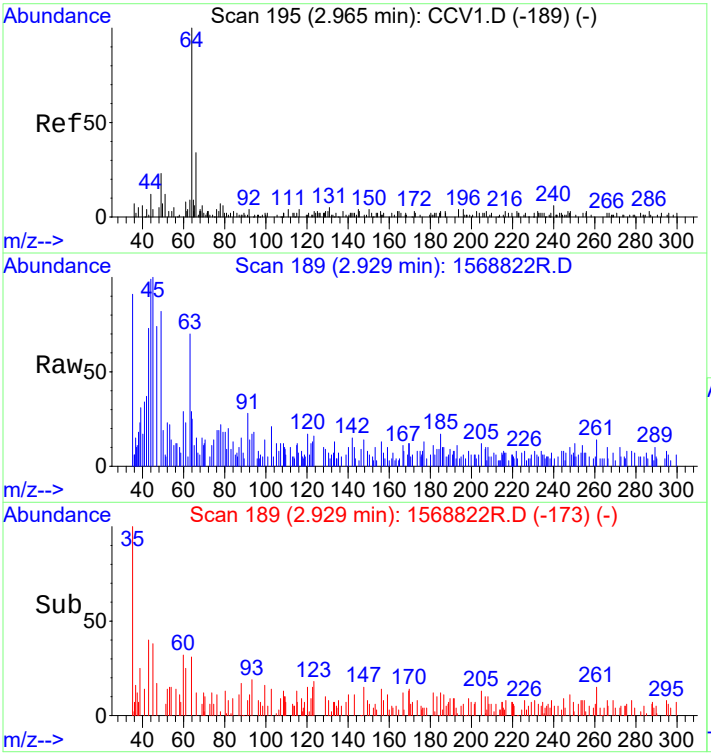
(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0825\1568822R.D Vial: 10
Acq On : 8 Apr 2025 12:51 Operator: RLD-DGS
Sample : 290598,1568822, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 13:11:46 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

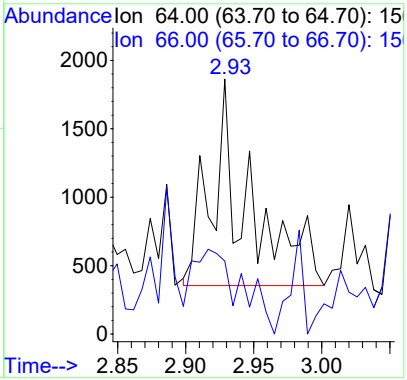




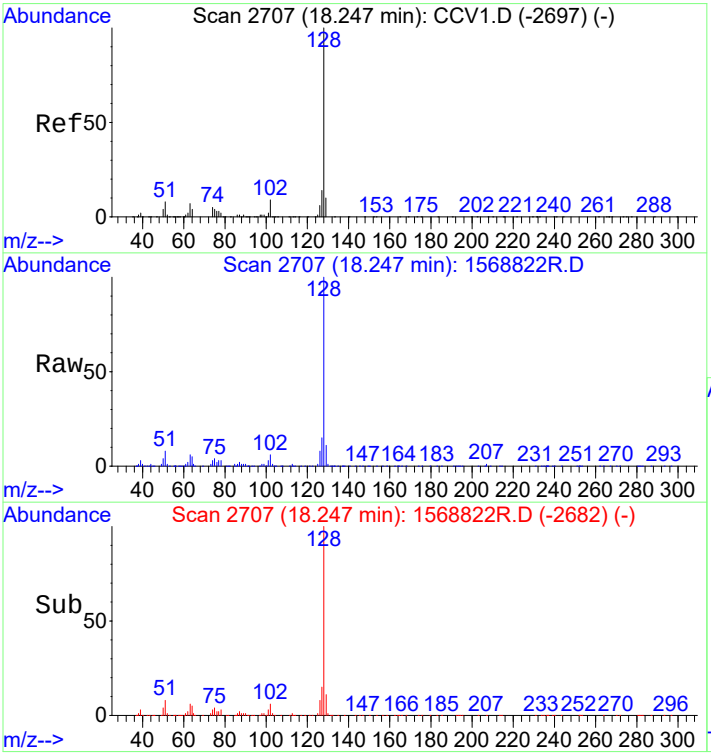

#6
Chloroethane
Concen: 0.04 mg/kg
RT: 2.93 min Scan# 189
Delta R.T. -0.05 min
Lab File: 1568822R.D
Acq: 8 Apr 2025 12:51

Tgt Ion: 64 Resp: 2833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 54.3 | 16.2 | 56.2 |



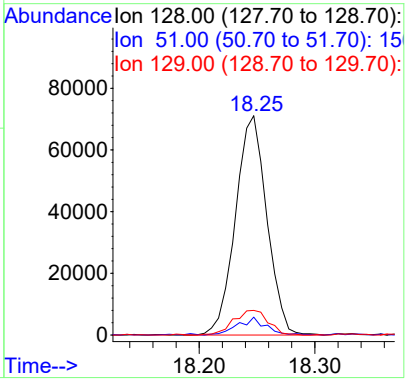

Negative Library Identification




#103
Naphthalene
Concen: 0.21 mg/kg
RT: 18.25 min Scan# 2707
Delta R.T. -0.00 min
Lab File: 1568822R.D
Acq: 8 Apr 2025 12:51

Tgt Ion:128 Resp: 134332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 51 | 7.3 | 0.0 | 29.7 |
| 129 | 12.4 | 0.0 | 30.4 |



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568823R.D Vial: 11
Acq On : 8 Apr 2025 13:19 Operator: RLD-DGS
Sample : 290598,1568823, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Report

Quant Time: Apr 08 13:39:35 2025 Results File: PS032525.RES

See seq. date 040725 for original analysis.

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1003127 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 829529 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 409624 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.03 | 113 | 279634 | 1.035 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 103 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 64847 | 1.003 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1000359 | 1.011 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 385174 | 0.978 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.19 | 50 | 2546 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.83 | 94 | 2214 | Below | Cal # | 1 |
| 6) Chloroethane | 3.01 | 64 | 1310 | N.D. | | |
| 7) dichloroflmethane | 3.28 | 67 | 1306 | Below | Cal # | 1 |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 3.78 | 67 | 1009 | N.D. | | |
| 11) propyleneoxide | 4.11 | 58 | 1842 | N.D. | | |
| 12) Acrolein | 4.01 | 56 | 1078 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.27 | 43 | 10387 | N.D. | | |
| 16) Iodomethane | 4.32 | 127 | 3293 | N.D. | | |
| 17) Carbon Dislf | 4.41 | 76 | 2238 | N.D. | | |
| 18) allylchloride | 4.64 | 41 | 1574 | N.D. | | |
| 19) methylacetate | 4.74 | 74 | 4191 | N.D. | | |
| 20) Methylchlorid | 4.78 | 84 | 2442 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 0.00 | 59 | 0 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 5.57 | 57 | 3834 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 5.93 | 45 | 1566 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.49 | 77 | 1034 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.90 | 42 | 1394 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568823R.D Vial: 11
Acq On : 8 Apr 2025 13:19 Operator: RLD-DGS
Sample : 290598,1568823, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 13:39:35 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) Cyclohexane | 7.18 | 56 | 4181 | N.D. | |
| 43) Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) Benzene | 7.55 | 78 | 2626 | N.D. | |
| 47) 12dichlorota | 7.55 | 62 | 1659 | N.D. | |
| 48) TAME | 0.00 | 73 | 0 | N.D. | |
| 49) trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) methylcyclohexane | 8.64 | 83 | 8610 | 0.0212 mg/kg# | 80 |
| 51) 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) methylmethacrylate | 8.87 | 69 | 1511 | N.D. | |
| 55) 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) 2Nitropropane | 9.22 | 43 | 1260 | N.D. | |
| 58) c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) 4Meth2Pentan | 0.00 | 43 | 0 | N.D. | |
| 61) Toluene | 10.00 | 92 | 10540 | N.D. | |
| 62) t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) 2Hexanone | 10.81 | 43 | 1961 | N.D. | |
| 69) Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) 1Clhexane | 11.84 | 91 | 1589 | N.D. | |
| 73) 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) Ethylbenzene | 12.04 | 91 | 5695 | N.D. | |
| 75) m p-Xylene | 12.19 | 106 | 9110 | N.D. | |
| 76) o-Xylene | 12.75 | 106 | 4800 | 0.0105 mg/kg | 88 |
| 77) Styrene | 12.75 | 104 | 1243 | N.D. | |
| 78) Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) Isopropylben | 13.28 | 105 | 2281 | N.D. | |
| 81) cyclohexanone | 13.51 | 55 | 1697 | N.D. | |
| 83) Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) 1122Tetrclta | 13.74 | 83 | 1005 | N.D. | |
| 85) 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) n-Propylbenz | 13.87 | 91 | 3729 | N.D. | |
| 88) 2chlorotolue | 13.87 | 91 | 3563 | N.D. | |
| 89) 4chlorotolue | 14.10 | 91 | 1528 | N.D. | |
| 90) 135Trimebenz | 14.12 | 105 | 3150 | N.D. | |
| 91) tbutylbenzen | 14.65 | 119 | 1553 | N.D. | |
| 92) 124Trimetben | 14.65 | 105 | 7996 | N.D. | |
| 93) sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) pIsopropylto | 15.13 | 119 | 2867 | N.D. | |
| 96) 14dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 97) 12dichlorobe | 15.71 | 146 | 1127 | N.D. | |
| 98) nButylbenzen | 15.72 | 91 | 4388 | N.D. | |
| 99) 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568823R.D Vial: 11
Acq On : 8 Apr 2025 13:19 Operator: RLD-DGS
Sample : 290598,1568823, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 13:39:35 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) Naphthalene | 18.24 | 128 | 94715 | 0.1470 | mg/kg | 97 |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

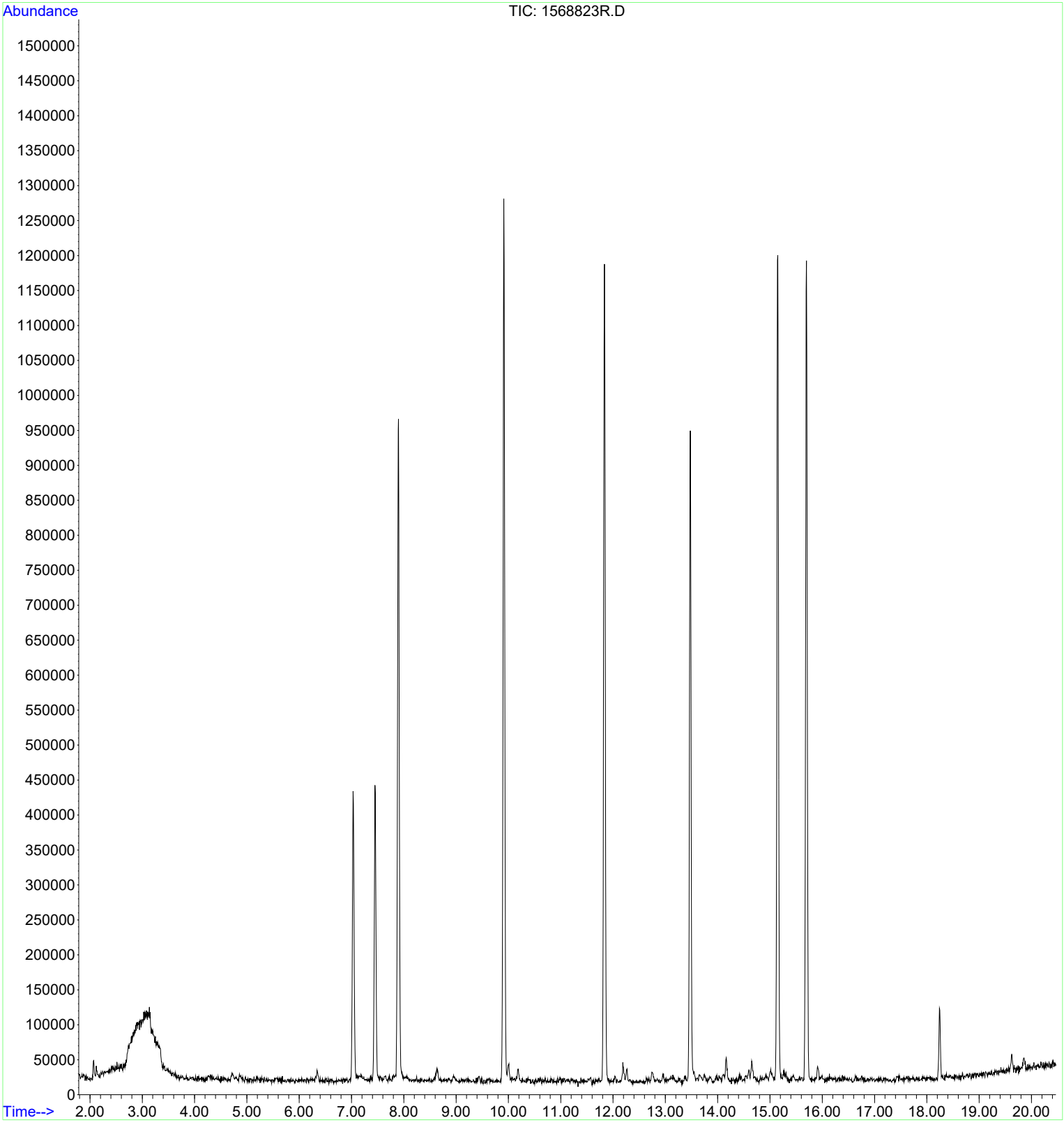
(#) = qualifier out of range (m) = manual integration

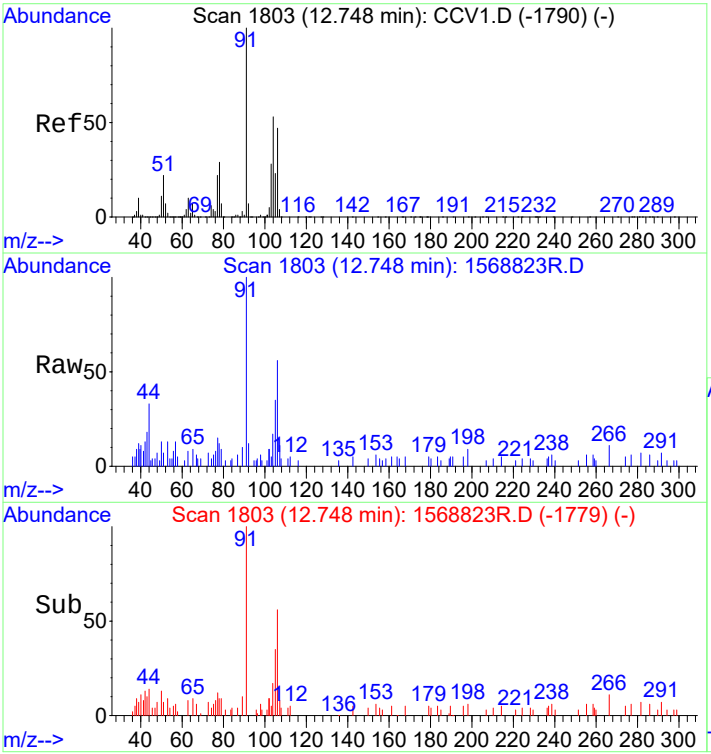
Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568823R.D Vial: 11
Acq On : 8 Apr 2025 13:19 Operator: RLD-DGS
Sample : 290598,1568823, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 13:39:35 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

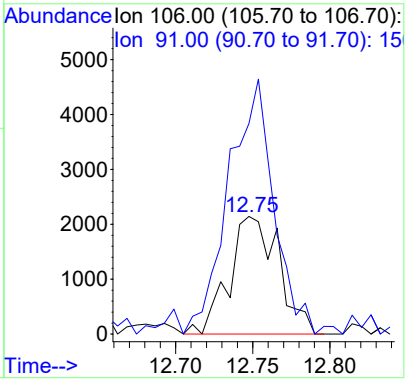


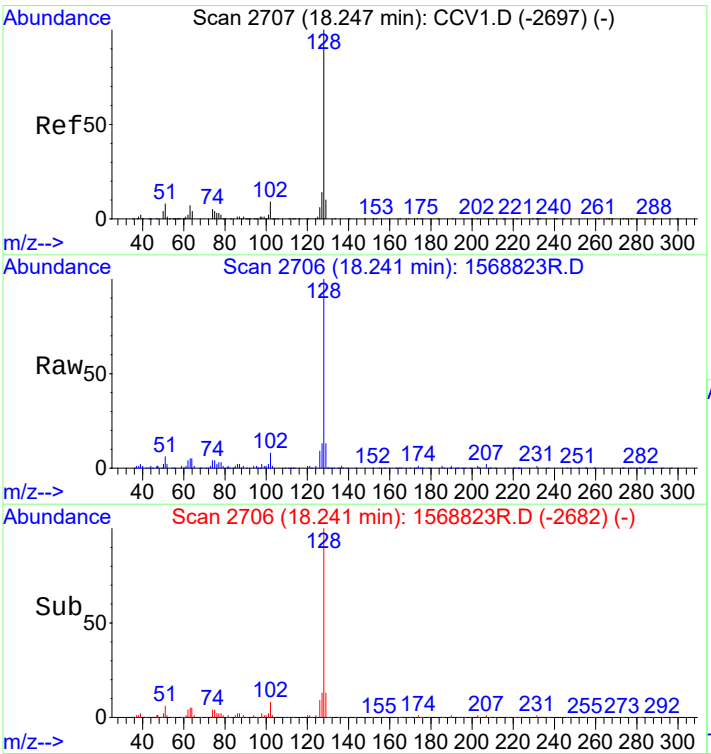



#76
o-Xylene
Concen: 0.01 mg/kg
RT: 12.75 min Scan# 1803
Delta R.T. -0.01 min
Lab File: 1568823R.D
Acq: 8 Apr 2025 13:19

Tgt Ion:106 Resp: 4800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 198.8 | 197.3 | 237.3 |

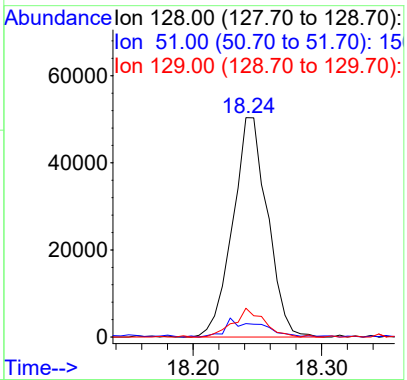



#103
Naphthalene
Concen: 0.15 mg/kg
RT: 18.24 min Scan# 2706
Delta R.T. -0.01 min
Lab File: 1568823R.D
Acq: 8 Apr 2025 13:19

Tgt Ion:128 Resp: 94715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 51 | 9.0 | 0.0 | 29.7 |
| 129 | 11.5 | 0.0 | 30.4 |



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568828R.D Vial: 12
Acq On : 8 Apr 2025 13:46 Operator: RLD-DGS
Sample : 290598,1568828, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Report

Quant Time: Apr 08 14:07:32 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

See seq. date 040725 for original analysis.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1007781 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 839482 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 406915 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.03 | 113 | 289223 | 1.065 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 107 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 63584 | 0.979 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 997417 | 1.003 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 389836 | 0.997 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 2952 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.84 | 94 | 3014 | Below Cal | | 94 |
| 6) Chloroethane | 2.87 | 64 | 6363 | 0.0990 | mg/kg | 76 |
| 7) dichloroflmethane | 3.33 | 67 | 2970 | N.D. | | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 4.11 | 58 | 1521 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.28 | 43 | 10182 | N.D. | | |
| 16) Iodomethane | 4.32 | 127 | 2427 | N.D. | | |
| 17) Carbon Dislf | 4.41 | 76 | 2265 | N.D. | | |
| 18) allylchloride | 4.66 | 41 | 1502 | N.D. | | |
| 19) methylacetate | 4.72 | 74 | 29448 | 0.1495 | mg/kg | 91 |
| 20) Methylchlorid | 4.78 | 84 | 1077 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 0.00 | 59 | 0 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 5.81 | 43 | 1046 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 5.87 | 45 | 1005 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.39 | 77 | 1593 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.88 | 42 | 1560 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568828R.D Vial: 12
Acq On : 8 Apr 2025 13:46 Operator: RLD-DGS
Sample : 290598,1568828, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 14:07:32 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | | |
| 46) | Benzene | 0.00 | 78 | 0 | N.D. | | |
| 47) | 12dichlorota | 0.00 | 62 | 0 | N.D. | | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | | |
| 49) | trichloroete | 8.37 | 95 | 12614 | 0.0469 | mg/kg | 86 |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | | |
| 57) | 2Nitropropane | 9.18 | 43 | 1246 | N.D. | | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | | |
| 59) | 4Meth2Pentan | 0.00 | 43 | 0 | N.D. | | |
| 61) | Toluene | 10.00 | 92 | 1915 | N.D. | | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | | |
| 65) | Tetrachlorte | 10.75 | 166 | 41825 | 0.1509 | mg/kg | 93 |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | | |
| 68) | 2Hexanone | 0.00 | 43 | 0 | N.D. | | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | | |
| 72) | 1Clhexane | 11.84 | 91 | 2885 | N.D. | | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | | |
| 74) | Ethylbenzene | 0.00 | 91 | 0 | N.D. | | |
| 75) | m p-Xylene | 0.00 | 106 | 0 | N.D. | | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | | |
| 81) | cyclohexanone | 13.48 | 55 | 1834 | N.D. | | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | | |
| 86) | 14dichloro2butene | 13.68 | 53 | 1372 | 0.0517 | mg/kg# | 19 |
| 87) | n-Propylbenz | 0.00 | 91 | 0 | N.D. | | |
| 88) | 2chlorotolue | 0.00 | 91 | 0 | N.D. | | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | | |
| 90) | 135Trimebenz | 0.00 | 105 | 0 | N.D. | | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | | |
| 92) | 124Trimetben | 0.00 | 105 | 0 | N.D. | | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | | |
| 94) | 13Diclorbenz | 15.15 | 146 | 1374 | N.D. | | |
| 95) | pIsopropylto | 15.12 | 119 | 6976 | N.D. | | |
| 96) | 14dichlorobe | 15.15 | 146 | 1374 | N.D. | | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | | |
| 98) | nButylbenzen | 15.70 | 91 | 2079 | N.D. | | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0825\1568828R.D Vial: 12
Acq On : 8 Apr 2025 13:46 Operator: RLD-DGS
Sample : 290598,1568828, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 14:07:32 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) Naphthalene | 18.25 | 128 | 45987 | 0.0718 | mg/kg | 95 |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

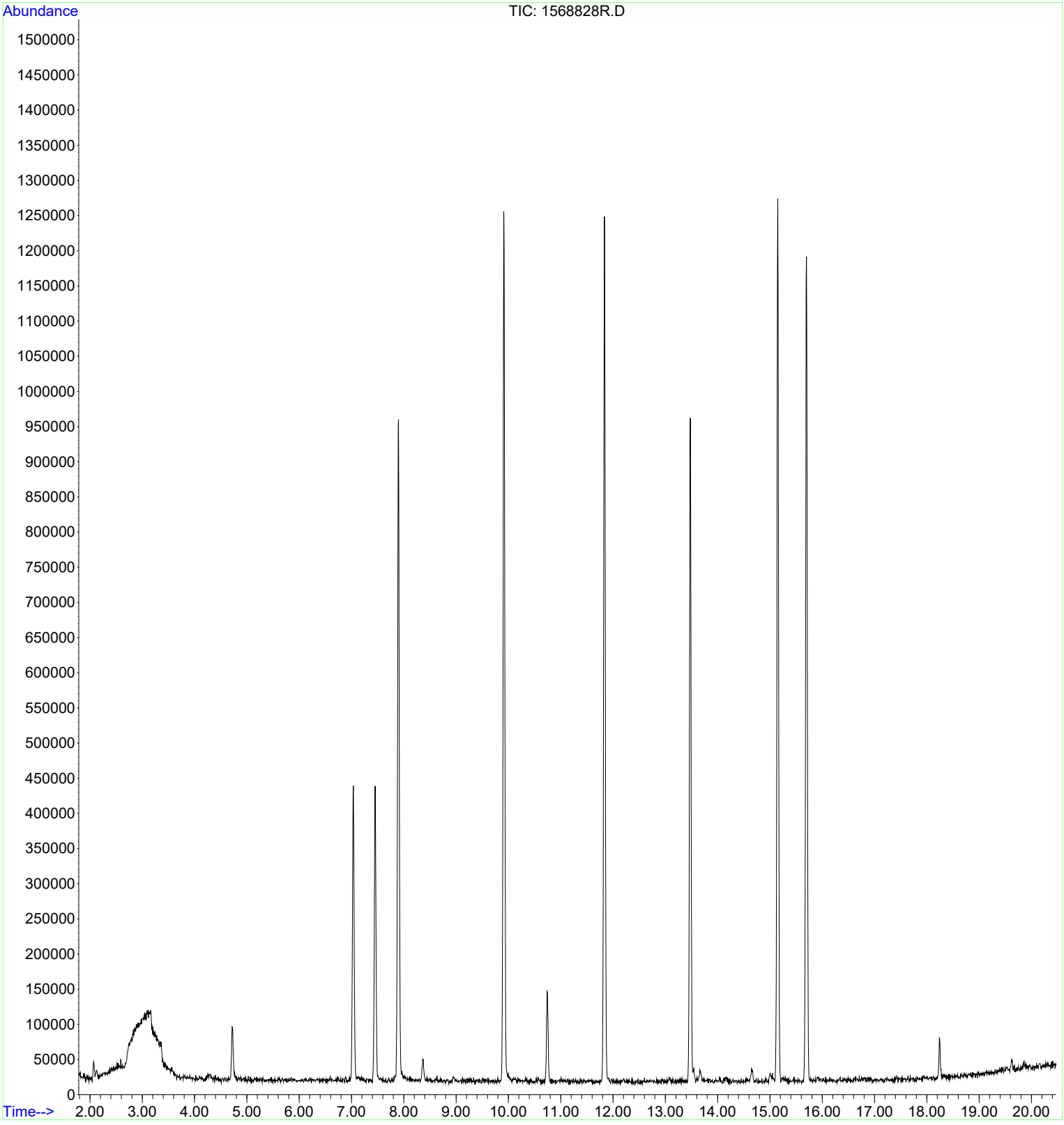
(#) = qualifier out of range (m) = manual integration

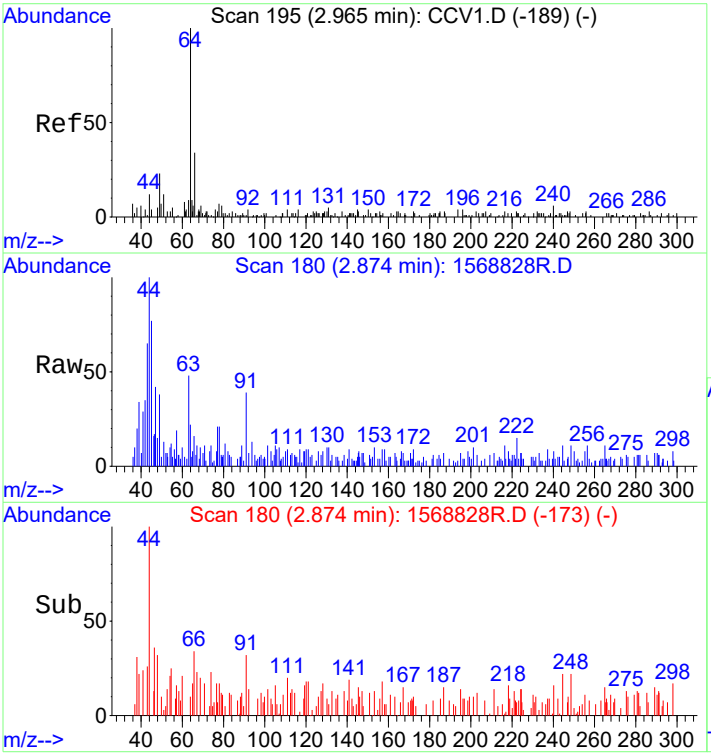
Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568828R.D Vial: 12
Acq On : 8 Apr 2025 13:46 Operator: RLD-DGS
Sample : 290598,1568828, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 14:07:32 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

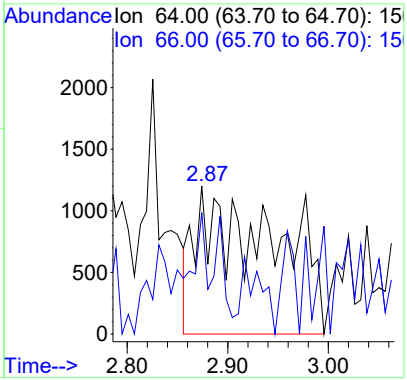




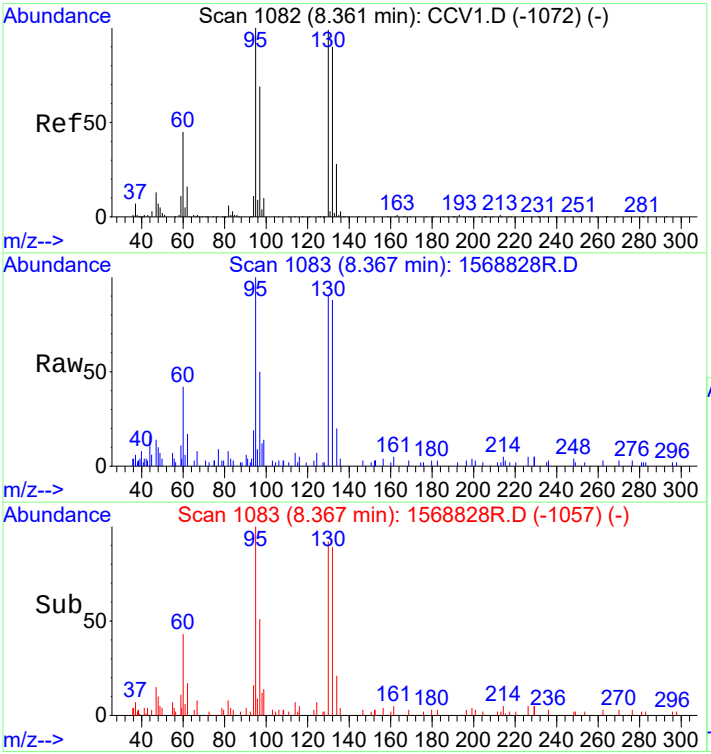

#6
Chloroethane
Concen: 0.10 mg/kg
RT: 2.87 min Scan# 180
Delta R.T. -0.11 min
Lab File: 1568828R.D
Acq: 8 Apr 2025 13:46

Tgt Ion: 64 Resp: 6363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 21.9 | 16.2 | 56.2 |



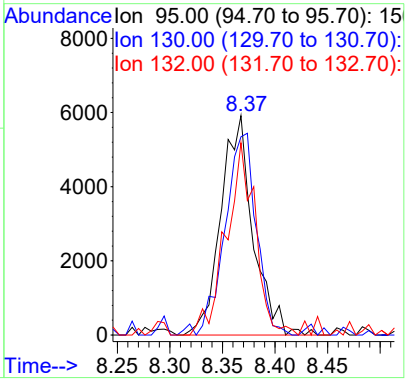

Negative Library Identification

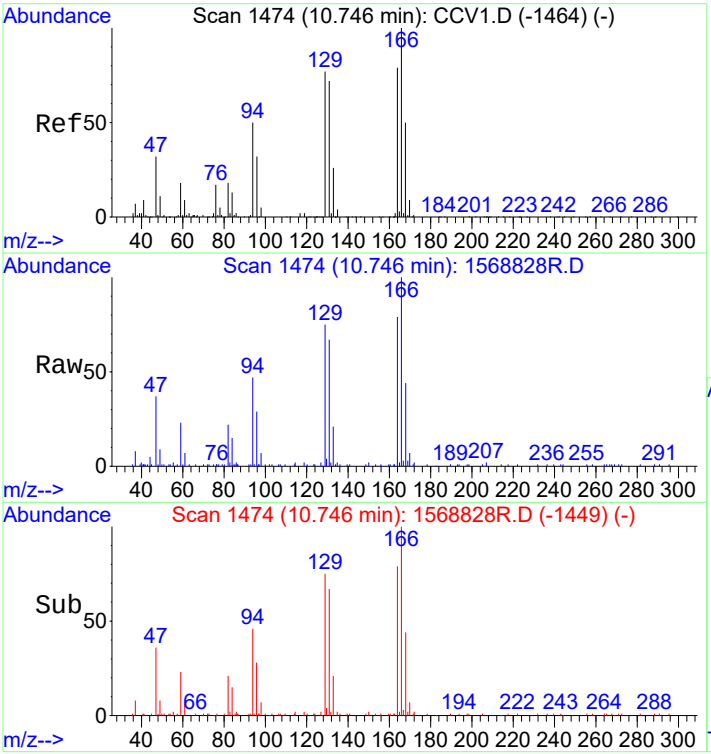



#49
trichloroete
Concen: 0.05 mg/kg
RT: 8.37 min Scan# 1083
Delta R.T. 0.01 min
Lab File: 1568828R.D
Acq: 8 Apr 2025 13:46

Tgt Ion: 95 Resp: 12614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 90.2 | 81.9 | 121.9 |
| 132 | 79.3 | 75.6 | 115.6 |

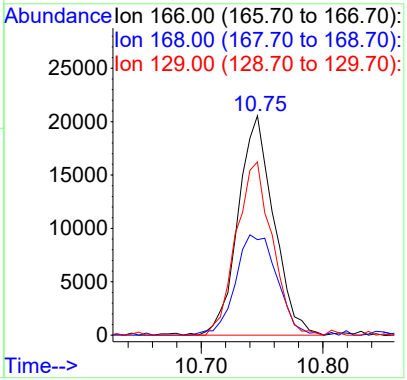


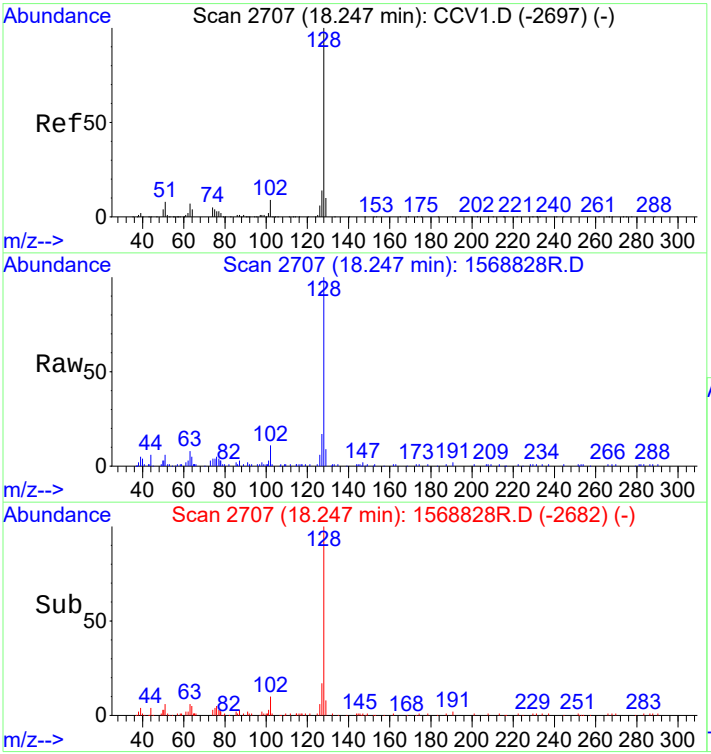



#65
Tetrachlorte
Concen: 0.15 mg/kg
RT: 10.75 min Scan# 1474
Delta R.T. -0.00 min
Lab File: 1568828R.D
Acq: 8 Apr 2025 13:46

Tgt Ion:166 Resp: 41825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 53.3 | 25.3 | 65.3 |
| 129 | 79.6 | 55.9 | 95.9 |

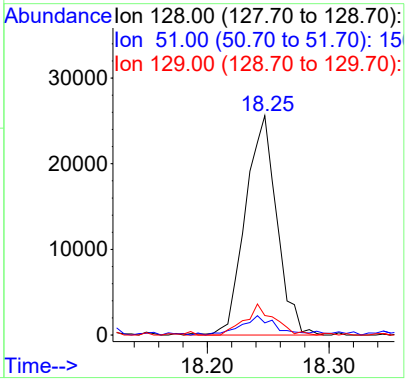



#103
Naphthalene
Concen: 0.07 mg/kg
RT: 18.25 min Scan# 2707
Delta R.T. -0.00 min
Lab File: 1568828R.D
Acq: 8 Apr 2025 13:46

Tgt Ion:128 Resp: 45987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 51 | 11.0 | 0.0 | 29.7 |
| 129 | 13.0 | 0.0 | 30.4 |



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568830R.D Vial: 13
Acq On : 8 Apr 2025 14:14 Operator: RLD-DGS
Sample : 290598,1568830, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Report

Quant Time: Apr 08 14:35:33 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

See seq. date 040725 for original analysis.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 989745 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 836523 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 407050 | 1.00 | mg/kg | 0.00 NA% |

| System Monitoring Compounds | | | | | | |
|---|---|---|---|---|---|---|
| 41) SURRDibrflma | 7.04 | 113 | 284180 | 1.066 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 107 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 61190 | 0.960 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 96 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 990685 | 1.015 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 386128 | 0.987 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |

| Target Compounds | | | | | Qvalue |
|---|---|---|---|---|---|
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | |
| 3) Chloromethan | 2.19 | 50 | 1660 | N.D. | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | |
| 5) Bromomethane | 2.83 | 94 | 2855 | Below Cal # | 76 |
| 6) Chloroethane | 2.98 | 64 | 1183 | N.D. | |
| 7) dichloroflmethane | 3.31 | 67 | 2087 | Below Cal # | 35 |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | |
| 11) propyleneoxide | 4.10 | 58 | 2394 | N.D. | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | |
| 15) Acetone | 4.25 | 43 | 7088 | N.D. | |
| 16) Iodomethane | 4.30 | 127 | 2577 | N.D. | |
| 17) Carbon Dislf | 4.41 | 76 | 1851 | N.D. | |
| 18) allylchloride | 4.58 | 41 | 1408 | N.D. | |
| 19) methylacetate | 4.74 | 74 | 2551 | N.D. | |
| 20) Methylchlorid | 4.79 | 84 | 2241 | N.D. | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | |
| 23) tbutylalcohol | 0.00 | 59 | 0 | N.D. | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | |
| 25) Hexane | 5.57 | 57 | 1866 | N.D. | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | |
| 27) Vinylacetate | 5.76 | 43 | 1194 | N.D. | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | |
| 29) Diisopether | 5.81 | 45 | 1347 | N.D. | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | |
| 31) 22dichloropr | 6.55 | 77 | 1238 | N.D. | |
| 32) c12dichlorte | 6.45 | 96 | 4791 | N.D. | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | |
| 38) Tetrahydofur | 6.90 | 42 | 1241 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568830R.D Vial: 13
Acq On : 8 Apr 2025 14:14 Operator: RLD-DGS
Sample : 290598,1568830, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 14:35:33 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) Benzene | 0.00 | 78 | 0 | N.D. | |
| 47) 12dichlorota | 0.00 | 62 | 0 | N.D. | |
| 48) TAME | 0.00 | 73 | 0 | N.D. | |
| 49) trichloroete | 8.37 | 95 | 25051 | 0.0949 mg/kg | 99 |
| 50) methylcyclohexane | 8.65 | 83 | 2841 | N.D. | |
| 51) 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) 2Nitropropane | 9.18 | 43 | 1143 | N.D. | |
| 58) c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) 4Meth2Pentan | 9.76 | 43 | 1114 | N.D. | |
| 61) Toluene | 10.01 | 92 | 7520 | N.D. | |
| 62) t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) ethylmethacrylate | 10.33 | 69 | 1861 | N.D. | |
| 64) 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) Tetrachlorte | 10.75 | 166 | 90525 | 0.3325 mg/kg | 99 |
| 66) 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) 2Hexanone | 10.83 | 43 | 1651 | N.D. | |
| 69) Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) 1Clhexane | 11.83 | 91 | 2897 | N.D. | |
| 73) 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) Ethylbenzene | 12.04 | 91 | 12966 | N.D. | |
| 75) m p-Xylene | 12.20 | 106 | 16806 | 0.0346 mg/kg | 95 |
| 76) o-Xylene | 12.75 | 106 | 8213 | 0.0179 mg/kg | 94 |
| 77) Styrene | 12.75 | 104 | 1129 | N.D. | |
| 78) Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) Isopropylben | 13.28 | 105 | 1238 | N.D. | |
| 81) cyclohexanone | 13.35 | 55 | 2582 | N.D. | |
| 83) Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) n-Propylbenz | 13.87 | 91 | 4446 | N.D. | |
| 88) 2chlorotolue | 13.99 | 91 | 3394 | N.D. | |
| 89) 4chlorotolue | 14.11 | 91 | 1348 | N.D. | |
| 90) 135Trimebenz | 14.12 | 105 | 5760 | N.D. | |
| 91) tbutylbenzen | 14.66 | 119 | 2226 | N.D. | |
| 92) 124Trimetben | 14.66 | 105 | 15108 | 0.0162 mg/kg | 88 |
| 93) sbutylbenzen | 14.91 | 105 | 1952 | N.D. | |
| 94) 13Diclorbenz | 15.14 | 146 | 1301 | N.D. | |
| 95) pIsopropylto | 15.13 | 119 | 1539 | N.D. | |
| 96) 14dichlorobe | 15.14 | 146 | 1301 | N.D. | |
| 97) 12dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 98) nButylbenzen | 15.72 | 91 | 6332 | N.D. | |
| 99) 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568830R.D Vial: 13
Acq On : 8 Apr 2025 14:14 Operator: RLD-DGS
Sample : 290598,1568830, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 14:35:33 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) Naphthalene | 18.25 | 128 | 10123 | 0.0158 | mg/kg# | 87 |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

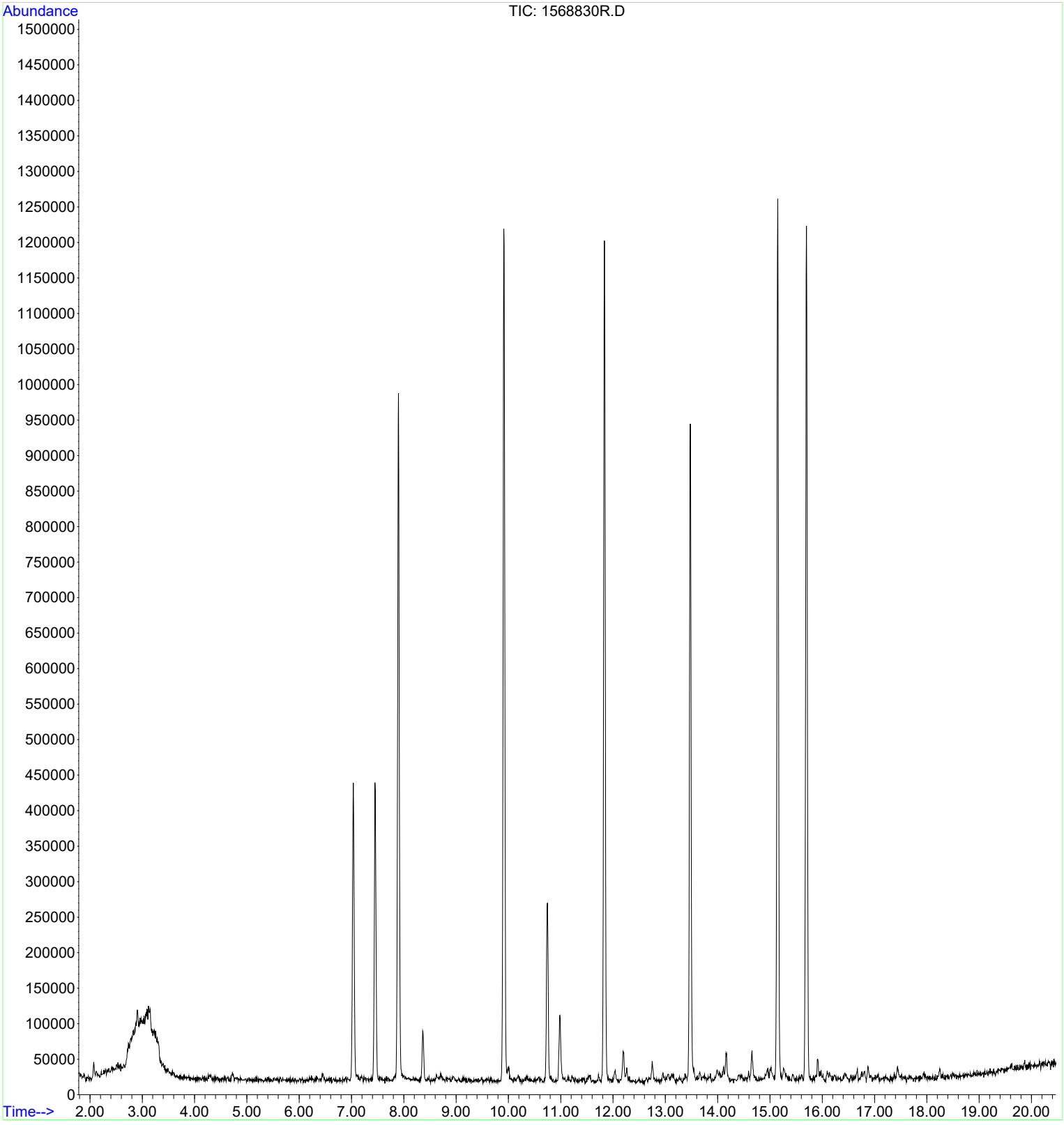
(#) = qualifier out of range (m) = manual integration

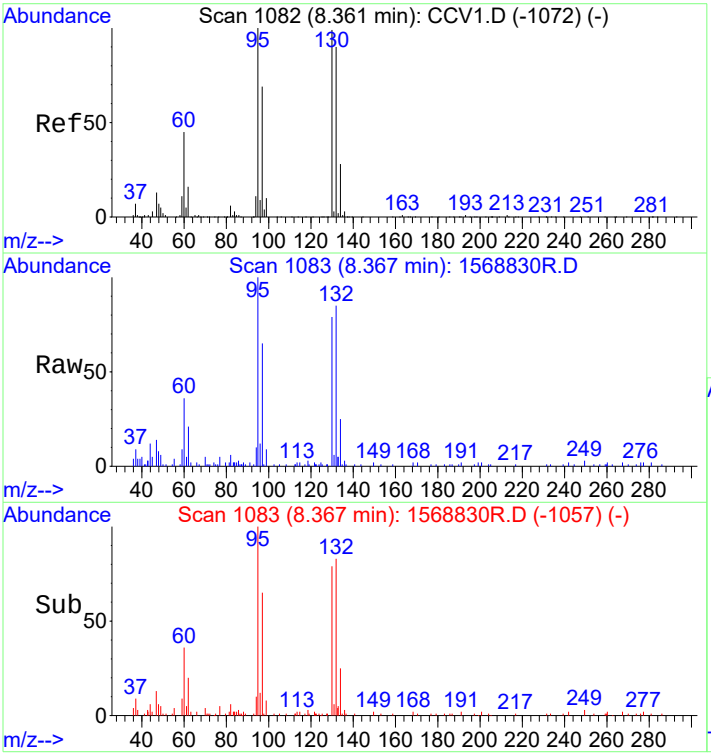
Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568830R.D Vial: 13
Acq On : 8 Apr 2025 14:14 Operator: RLD-DGS
Sample : 290598,1568830, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 14:35:33 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

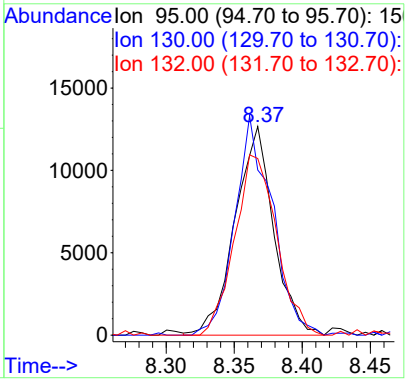


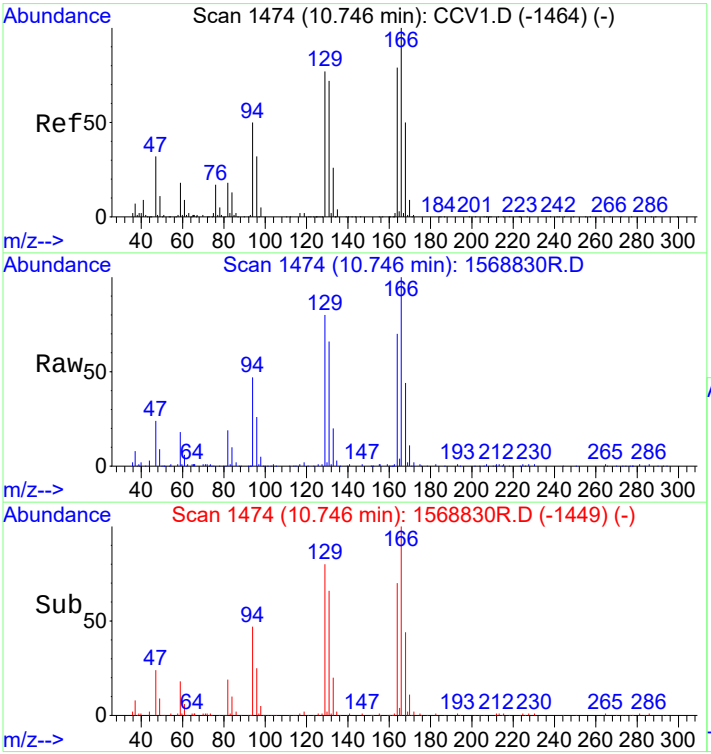



#49
trichloroete
Concen: 0.09 mg/kg
RT: 8.37 min Scan# 1083
Delta R.T. 0.01 min
Lab File: 1568830R.D
Acq: 8 Apr 2025 14:14

Tgt Ion: 95 Resp: 25051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 101.5 | 81.9 | 121.9 |
| 132 | 93.7 | 75.6 | 115.6 |

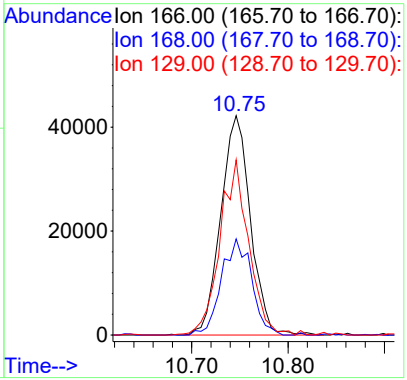


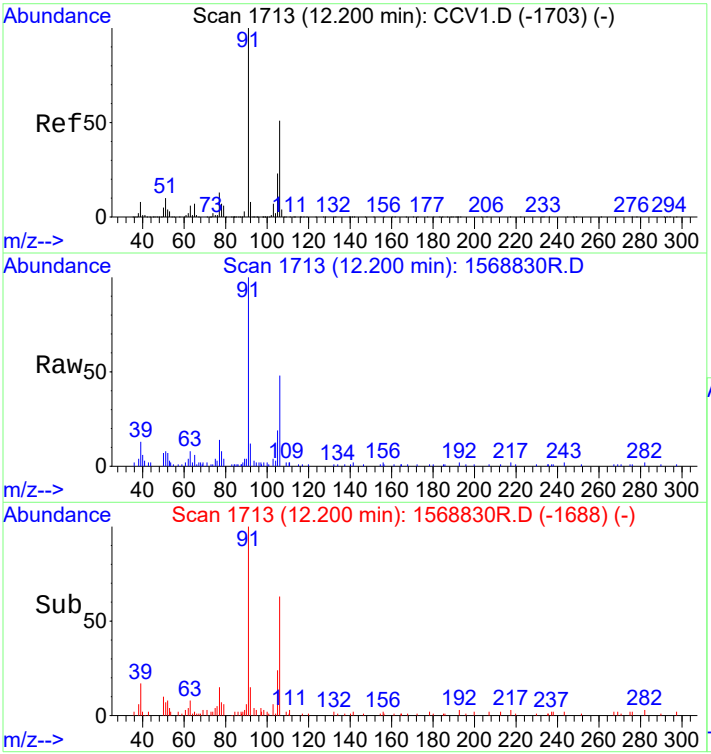




#65
Tetrachlorte
Concen: 0.33 mg/kg
RT: 10.75 min Scan# 1474
Delta R.T. -0.00 min
Lab File: 1568830R.D
Acq: 8 Apr 2025 14:14

Tgt Ion:166 Resp: 90525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 44.3 | 25.3 | 65.3 |
| 129 | 76.9 | 55.9 | 95.9 |

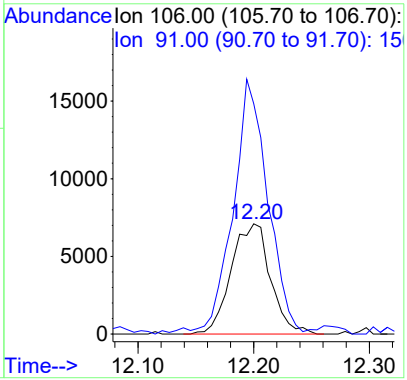


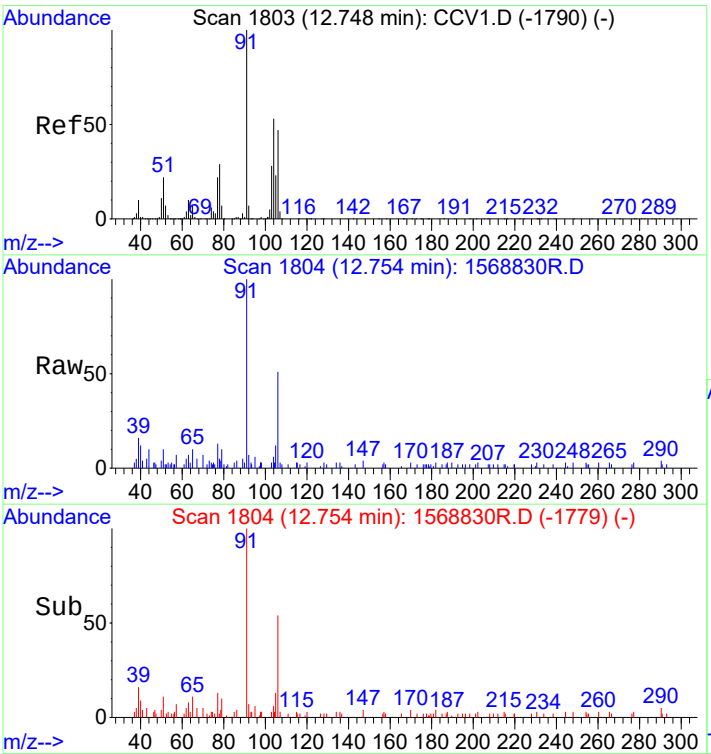



#75
m p-Xylene
Concen: 0.03 mg/kg
RT: 12.20 min Scan# 1713
Delta R.T. -0.00 min
Lab File: 1568830R.D
Acq: 8 Apr 2025 14:14

Tgt Ion:106 Resp: 16806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.0 | 180.1 | 220.1 |

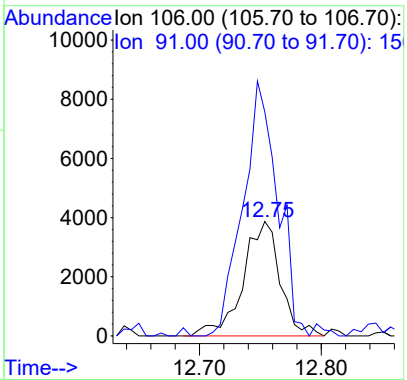


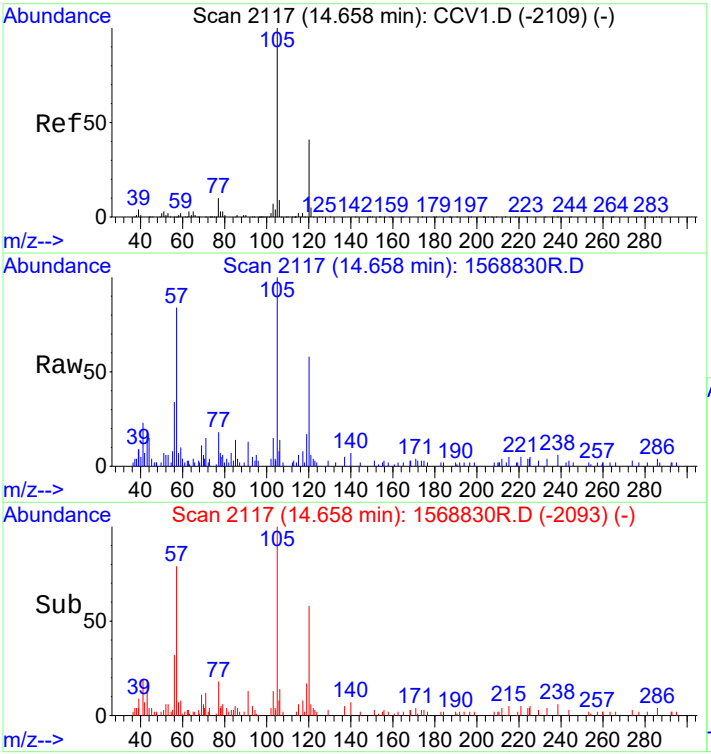




#76
o-Xylene
Concen: 0.02 mg/kg
RT: 12.75 min Scan# 1804
Delta R.T. -0.00 min
Lab File: 1568830R.D
Acq: 8 Apr 2025 14:14

Tgt Ion:106 Resp: 8213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.5 | 197.3 | 237.3 |

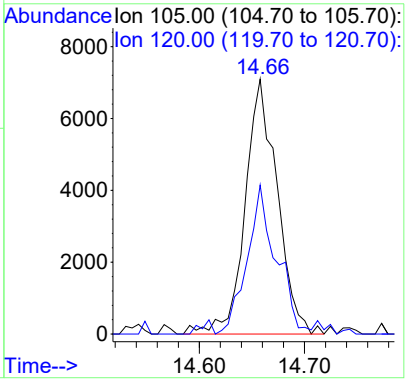


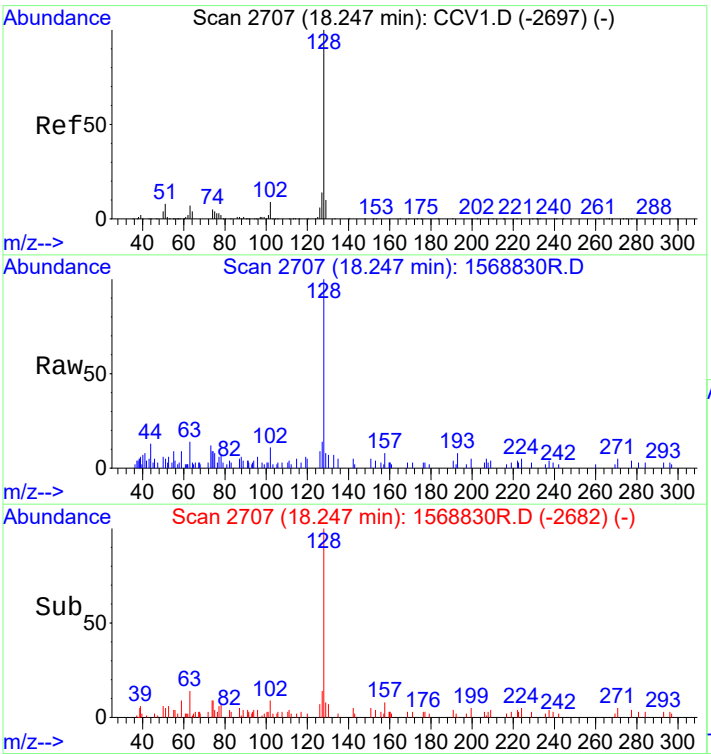



#92
124Trimetben
Concen: 0.02 mg/kg
RT: 14.66 min Scan# 2117
Delta R.T. -0.01 min
Lab File: 1568830R.D
Acq: 8 Apr 2025 14:14

Tgt Ion:105 Resp: 15108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 53.2 | 25.2 | 65.2 |

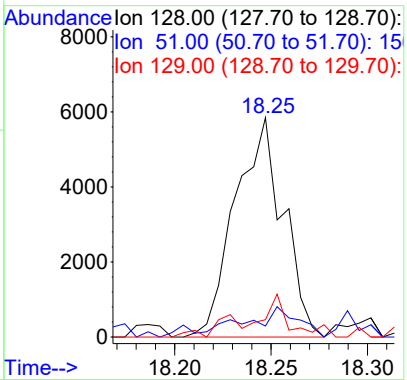



#103
Naphthalene
Concen: 0.02 mg/kg
RT: 18.25 min Scan# 2707
Delta R.T. -0.00 min
Lab File: 1568830R.D
Acq: 8 Apr 2025 14:14

Tgt Ion:128 Resp: 10123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 51 | 0.0 | 0.0 | 29.7 |
| 129 | 10.3 | 0.0 | 30.4 |



Quantitation Report

Report

Data File : C:\INSTARCH\DATA\APR0825\1568846R.D Vial: 14
Acq On : 8 Apr 2025 14:42 Operator: RLD-DGS
Sample : 290598,1568846, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 15:03:24 2025 Results File: PS032525.RES

See seq. date 040725 for original analysis.

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1013634 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 841463 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 399202 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 287698 | 1.054 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 105 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 62462 | 0.957 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 96 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 998218 | 0.998 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 381055 | 0.993 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 3734 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.83 | 94 | 2435 | Below | Cal # | 74 |
| 6) Chloroethane | 3.00 | 64 | 1369 | N.D. | | |
| 7) dichloroflmethane | 3.22 | 67 | 4638 | N.D. | | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 4.09 | 58 | 1378 | N.D. | | |
| 12) Acrolein | 4.01 | 56 | 1063 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.29 | 43 | 8638 | N.D. | | |
| 16) Iodomethane | 4.31 | 127 | 2035 | N.D. | | |
| 17) Carbon Dislf | 4.39 | 76 | 2415 | N.D. | | |
| 18) allylchloride | 4.58 | 41 | 2689 | N.D. | | |
| 19) methylacetate | 4.72 | 74 | 4810 | N.D. | | |
| 20) Methylchlorid | 4.78 | 84 | 1551 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 5.00 | 59 | 1070 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 5.58 | 57 | 1177 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 5.84 | 43 | 1134 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.46 | 77 | 1175 | N.D. | | |
| 32) c12dichlorte | 6.45 | 96 | 3460 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.93 | 42 | 1969 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568846R.D Vial: 14
Acq On : 8 Apr 2025 14:42 Operator: RLD-DGS
Sample : 290598,1568846, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 15:03:24 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 7.56 | 78 | 2025 | N.D. | |
| 47) | 12dichlorota | 7.53 | 62 | 1350 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 8.37 | 95 | 18564 | 0.0687 mg/kg | 93 |
| 50) | methylcyclohexane | 8.64 | 83 | 3012 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 9.10 | 43 | 1138 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 9.75 | 43 | 1531 | N.D. | |
| 61) | Toluene | 10.00 | 92 | 5786 | N.D. | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 10.74 | 166 | 47080 | 0.1689 mg/kg | 96 |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 10.86 | 43 | 1467 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 11.83 | 91 | 2601 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 12.04 | 91 | 7869 | N.D. | |
| 75) | m p-Xylene | 12.19 | 106 | 9760 | N.D. | |
| 76) | o-Xylene | 12.75 | 106 | 4419 | 0.0096 mg/kg# | 77 |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | |
| 81) | cyclohexanone | 13.48 | 55 | 1764 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 13.85 | 91 | 2900 | N.D. | |
| 88) | 2chlorotolue | 13.85 | 91 | 2317 | N.D. | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 90) | 135Trimebenz | 14.13 | 105 | 3715 | N.D. | |
| 91) | tbutylbenzen | 14.66 | 119 | 1267 | N.D. | |
| 92) | 124Trimetben | 14.66 | 105 | 8278 | N.D. | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) | pIsopropylto | 15.14 | 119 | 2131 | N.D. | |
| 96) | 14dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 97) | 12dichlorobe | 15.70 | 146 | 1345 | N.D. | |
| 98) | nButylbenzen | 15.73 | 91 | 1677 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568846R.D Vial: 14
Acq On : 8 Apr 2025 14:42 Operator: RLD-DGS
Sample : 290598,1568846, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 15:03:24 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

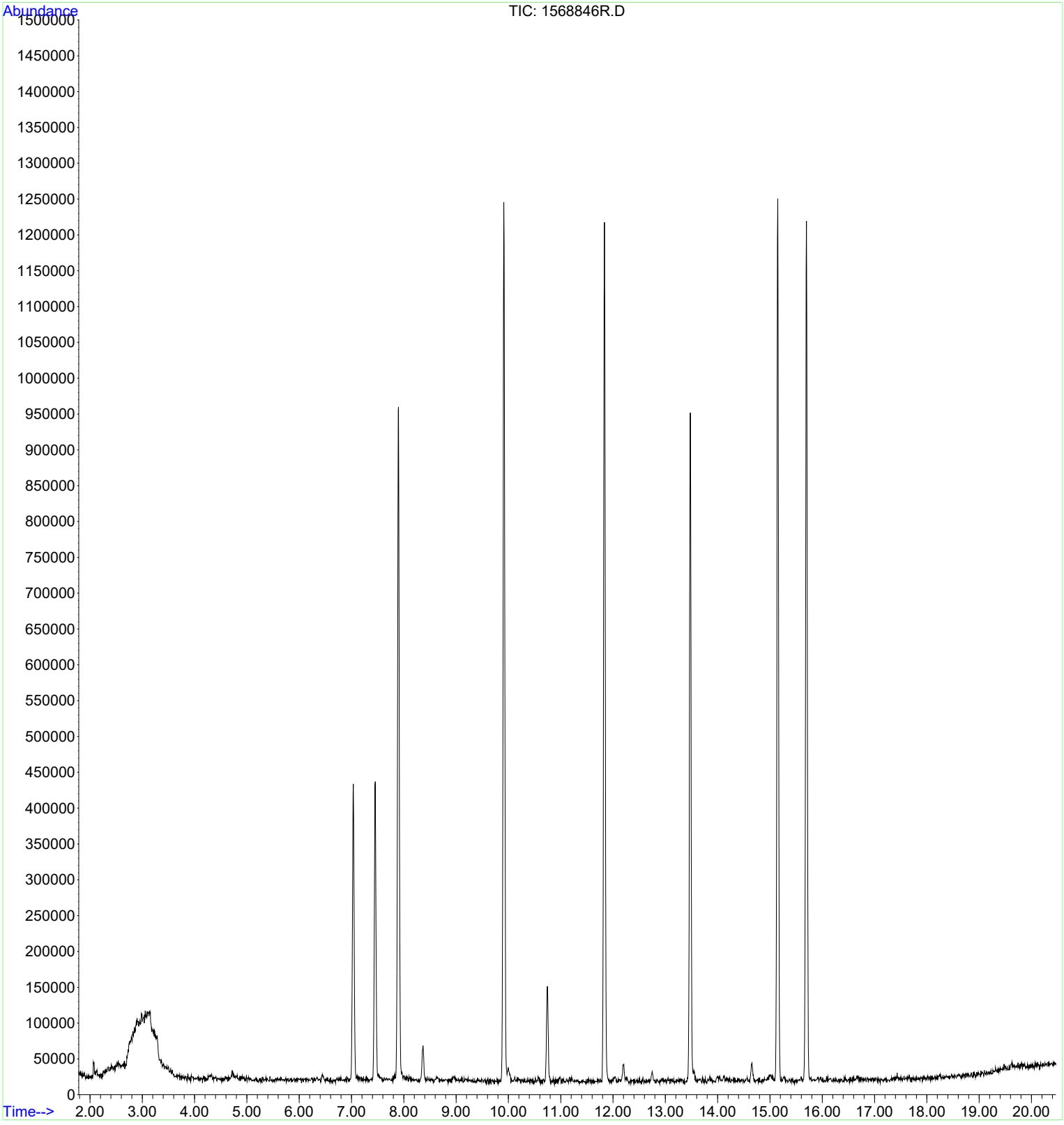
| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | |
| 103) Naphthalene | 18.24 | 128 | 4381 | N.D. | |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | |

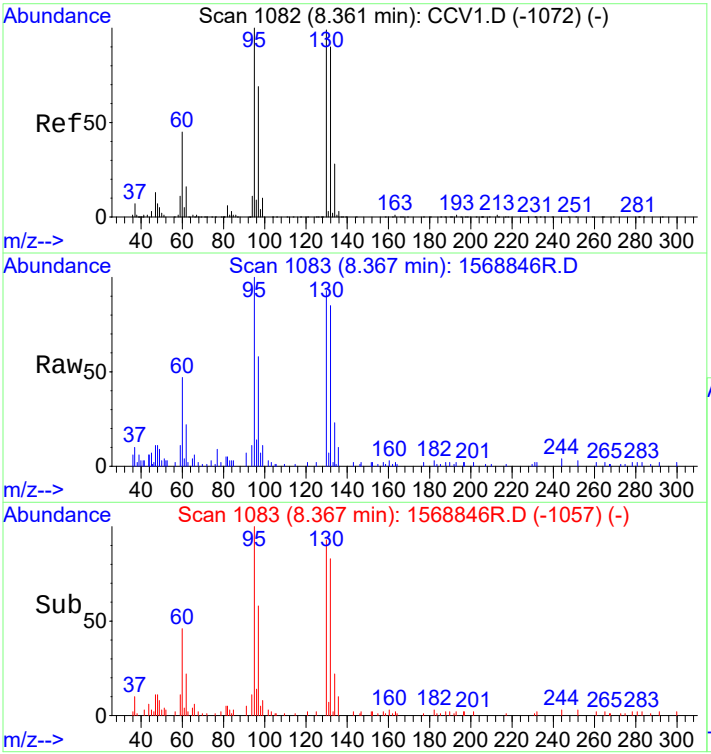
(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0825\1568846R.D Vial: 14
Acq On : 8 Apr 2025 14:42 Operator: RLD-DGS
Sample : 290598,1568846, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 15:03:24 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

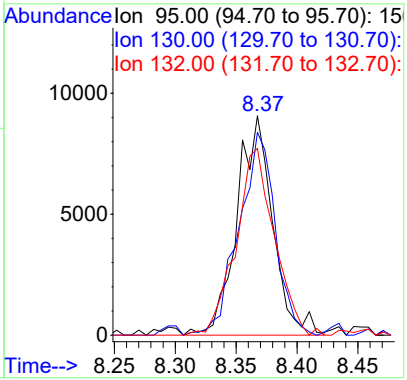


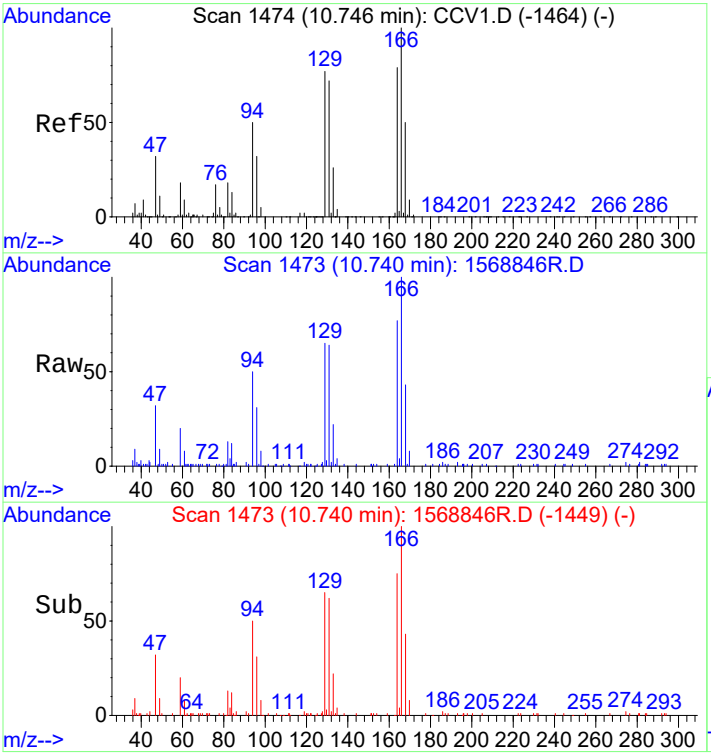



#49
trichloroete
Concen: 0.07 mg/kg
RT: 8.37 min Scan# 1083
Delta R.T. 0.01 min
Lab File: 1568846R.D
Acq: 8 Apr 2025 14:42

Tgt Ion: 95 Resp: 18564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 93.2 | 81.9 | 121.9 |
| 132 | 91.3 | 75.6 | 115.6 |

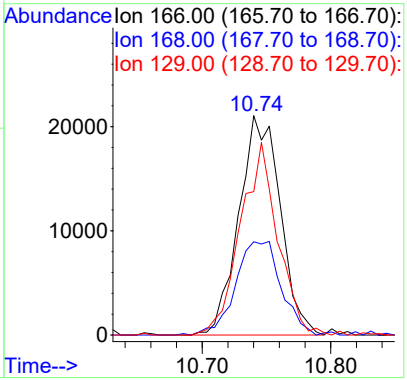


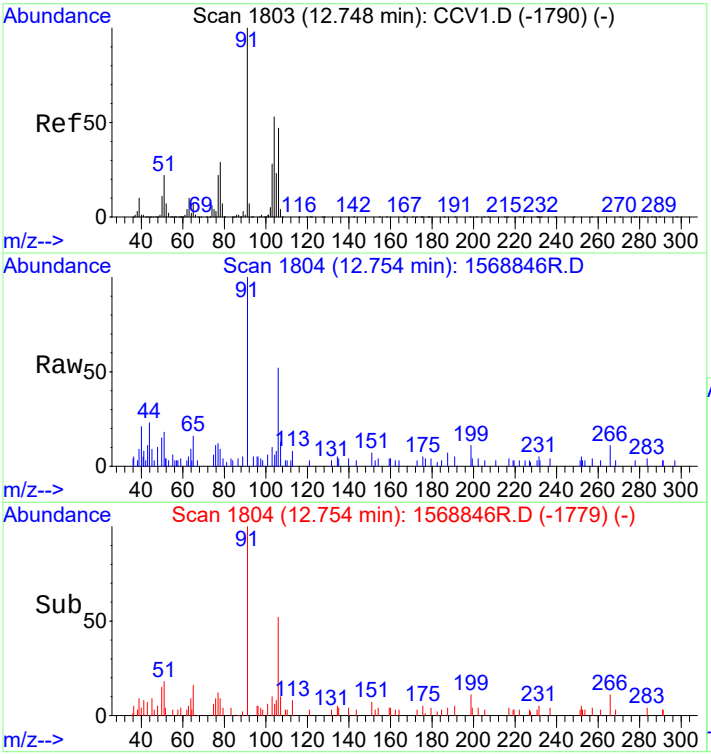




#65
Tetrachlorte
Concen: 0.17 mg/kg
RT: 10.74 min Scan# 1473
Delta R.T. -0.01 min
Lab File: 1568846R.D
Acq: 8 Apr 2025 14:42

Tgt Ion:166 Resp: 47080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 47.3 | 25.3 | 65.3 |
| 129 | 79.3 | 55.9 | 95.9 |

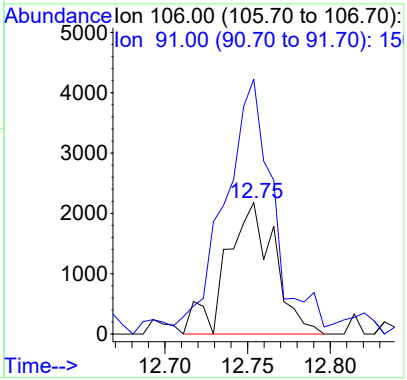





#76
o-Xylene
Concen: 0.01 mg/kg
RT: 12.75 min Scan# 1804
Delta R.T. -0.00 min
Lab File: 1568846R.D
Acq: 8 Apr 2025 14:42

Tgt Ion:106 Resp: 4419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 180.5 | 197.3 | 237.3# |



Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568823.D Vial: 8
Acq On : 11 Apr 2025 11:11 Operator: RLD-DGS
Sample : 290584,1568823, Inst : VMS4
Misc : 5.74g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 11:32:13 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 936602 | 0.02 mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 707266 | 0.02 mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 327619 | 0.02 mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 248456 | 0.020 mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 55059 | 0.023 mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 115 % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 901045 | 0.019 mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 332748 | 0.021 mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 105 % | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | |
| 3) Chloromethan | 2.19 | 50 | 3421 | N.D. | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | |
| 5) Bromomethane | 2.86 | 94 | 3432 | N.D. | |
| 6) Chloroethane | 2.89 | 64 | 14719 | 0.0016 mg/kg# | 42 |
| 7) dichloroflmethane | 3.32 | 67 | 1973 | N.D. | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | |
| 10) dichlorotfluoroethan | 3.87 | 67 | 1502 | N.D. | |
| 11) propyleneoxide | 4.10 | 58 | 286827 | 0.1777 mg/kg | 94 |
| 12) Acrolein | 4.01 | 56 | 4506 | 0.0025 mg/kg# | 60 |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | |
| 15) Acetone | 4.24 | 43 | 362656 | 0.0991 mg/kg | 97 |
| 16) Iodomethane | 4.33 | 142 | 5218 | 0.0004 mg/kg# | 84 |
| 17) Carbon Dislf | 4.43 | 76 | 36815 | 0.0013 mg/kg | 97 |
| 18) allylchloride | 4.72 | 41 | 1206 | N.D. | |
| 19) methylacetate | 0.00 | 74 | 0 | N.D. | |
| 20) Methylchlorid | 4.80 | 84 | 10870 | N.D. | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | |
| 23) tbutylalcohol | 5.05 | 59 | 20278 | 0.0329 mg/kg | 63 |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | |
| 25) Hexane | 5.59 | 57 | 11017 | N.D. | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | |
| 27) Vinylacetate | 5.77 | 43 | 1903 | N.D. | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | |
| 30) ETBE | 6.40 | 59 | 1120 | Below Cal # | 10 |
| 31) 22dichloropr | 6.40 | 77 | 4776 | N.D. | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | |
| 33) 2Butanone | 6.49 | 72 | 16686 | 0.0149 mg/kg | 82 |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | |
| 38) Tetrahydofur | 6.86 | 42 | 1849 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568823.D Vial: 8
Acq On : 11 Apr 2025 11:11 Operator: RLD-DGS
Sample : 290584,1568823, Inst : VMS4
Misc : 5.74g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 11:32:13 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 1375 | N.D. | | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | | |
| 42) | Cyclohexane | 7.17 | 56 | 3657 | N.D. | | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | | |
| 46) | Benzene | 7.56 | 78 | 85356 | 0.0018 | mg/kg | 98 |
| 47) | 12dichlorota | 7.56 | 62 | 1703 | N.D. | | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | | |
| 49) | trichloroete | 8.36 | 95 | 1484 | N.D. | | |
| 50) | methylcyclohexane | 8.65 | 83 | 4587 | N.D. | | |
| 51) | 12dicloropra | 8.74 | 63 | 1102 | N.D. | | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | | |
| 57) | 2Nitropropane | 9.26 | 43 | 2026 | N.D. | | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | | |
| 59) | 4Meth2Pentan | 9.76 | 43 | 4447 | N.D. | | |
| 61) | Toluene | 10.00 | 92 | 52917 | 0.0017 | mg/kg | 94 |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | | |
| 63) | ethylmethacrylate | 10.29 | 69 | 1256 | N.D. | | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | | |
| 68) | 2Hexanone | 10.86 | 43 | 9552 | N.D. | | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | | |
| 72) | 1Clhexane | 11.85 | 91 | 1895 | N.D. | | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | | |
| 74) | Ethylbenzene | 12.04 | 91 | 19273 | N.D. | | |
| 75) | m p-Xylene | 12.19 | 106 | 35580 | 0.0017 | mg/kg | 100 |
| 76) | o-Xylene | 12.75 | 106 | 11249 | 0.0006 | mg/kg | 99 |
| 77) | Styrene | 12.76 | 104 | 1620 | N.D. | | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 79) | Isopropylben | 13.28 | 105 | 2520 | N.D. | | |
| 81) | cyclohexanone | 13.39 | 55 | 3101 | N.D. | | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | | |
| 87) | n-Propylbenz | 13.86 | 91 | 5447 | N.D. | | |
| 88) | 2chlorotolue | 13.98 | 91 | 8171 | N.D. | | |
| 89) | 4chlorotolue | 14.11 | 91 | 2349 | N.D. | | |
| 90) | 135Trimebenz | 14.12 | 105 | 5840 | N.D. | | |
| 91) | tbutylbenzen | 14.66 | 119 | 2227 | N.D. | | |
| 92) | 124Trimetben | 14.63 | 105 | 39896 | 0.0010 | mg/kg# | 54 |
| 93) | sbutylbenzen | 14.91 | 105 | 1636 | N.D. | | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | | |
| 95) | pIsopropylto | 15.13 | 119 | 10273 | N.D. | | |
| 96) | 14dichlorobe | 15.19 | 146 | 1104 | N.D. | | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | | |
| 98) | nButylbenzen | 15.71 | 91 | 3172 | N.D. | | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568823.D Vial: 8
Acq On : 11 Apr 2025 11:11 Operator: RLD-DGS
Sample : 290584,1568823, Inst : VMS4
Misc : 5.74g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 11:32:13 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) | Naphthalene | 18.25 | 128 | 30885 | 0.0013 | mg/kg | 96 |
| 104) | 123Trichlben | 18.56 | 180 | 1021 | N.D. | | |

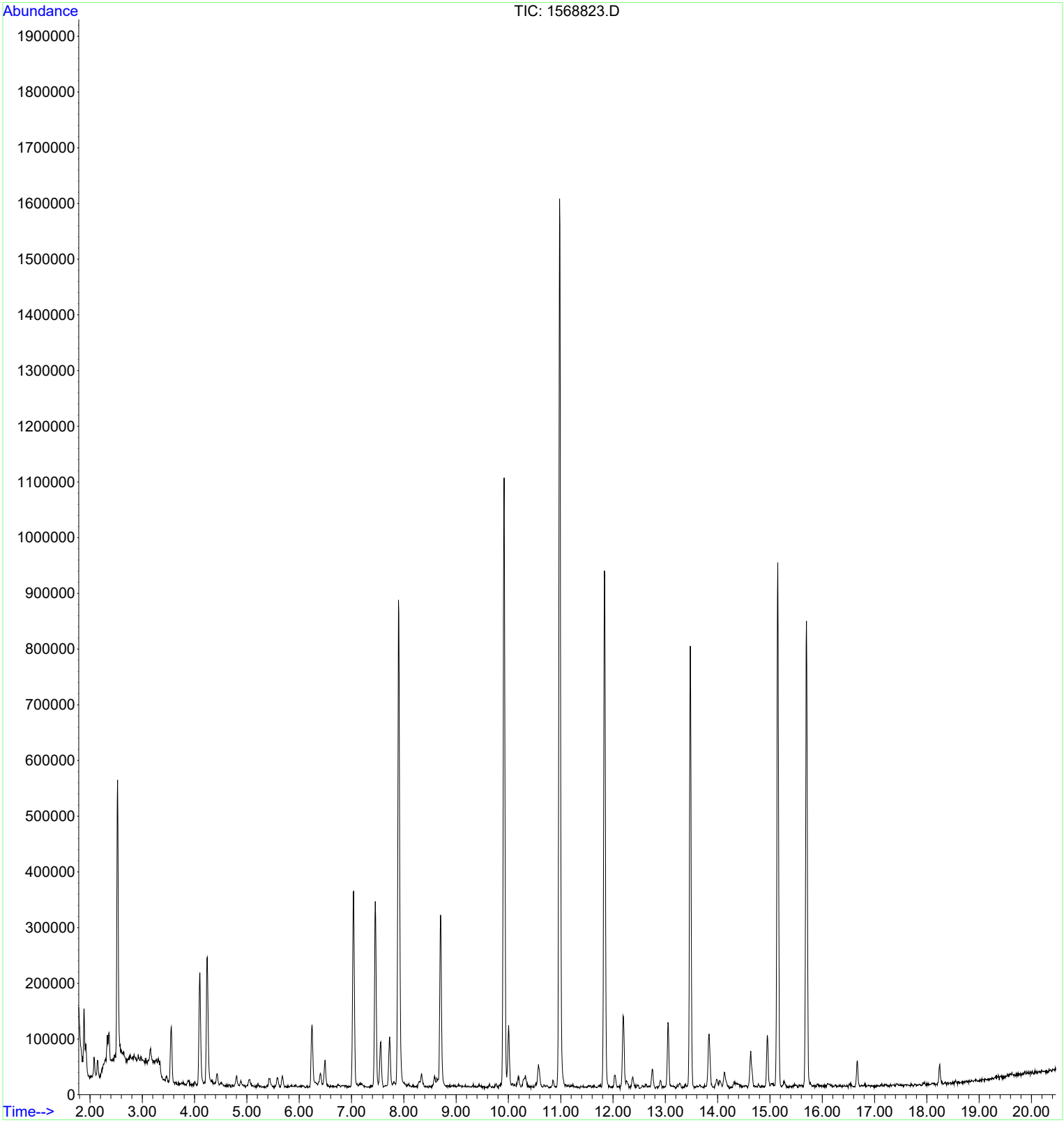
(#) = qualifier out of range (m) = manual integration

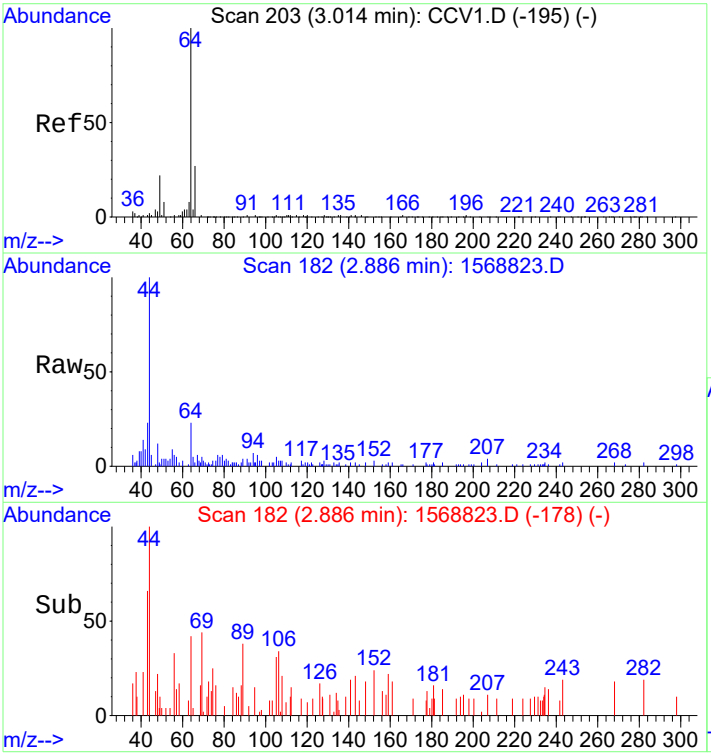
Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568823.D Vial: 8
Acq On : 11 Apr 2025 11:11 Operator: RLD-DGS
Sample : 290584,1568823, Inst : VMS4
Misc : 5.74g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 11:32:13 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

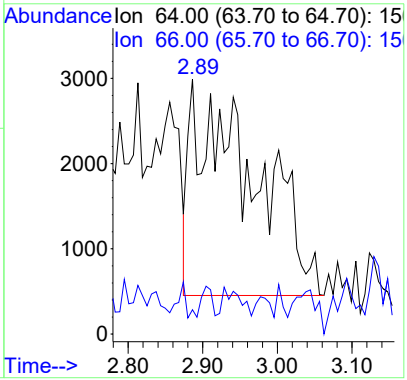




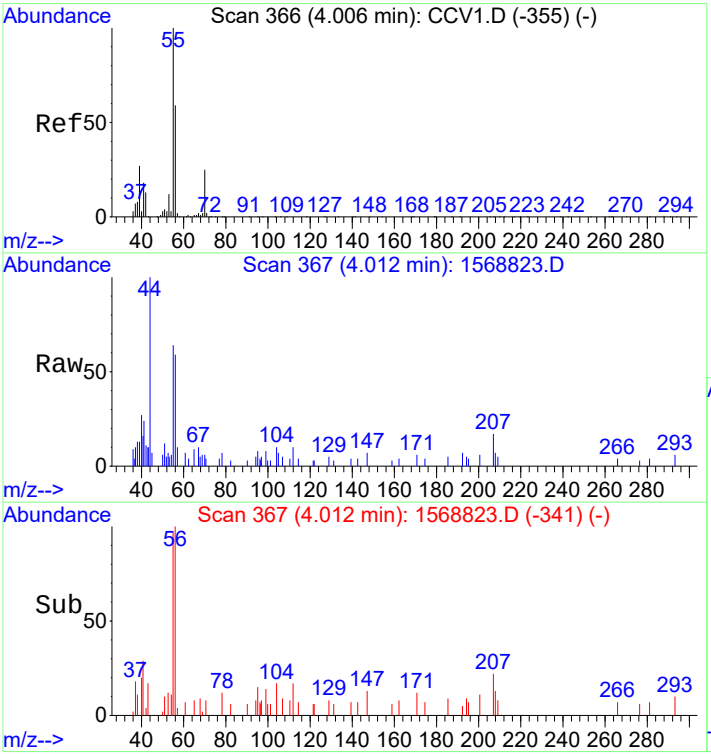

#6
Chloroethane
Concen: 0.00 mg/kg
RT: 2.89 min Scan# 182
Delta R.T. -0.13 min
Lab File: 1568823.D
Acq: 11 Apr 2025 11:11

Tgt Ion: 64 Resp: 14719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 13.1 | 53.1# |



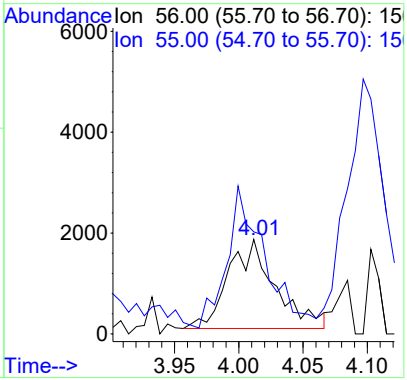

Negative Library Identification

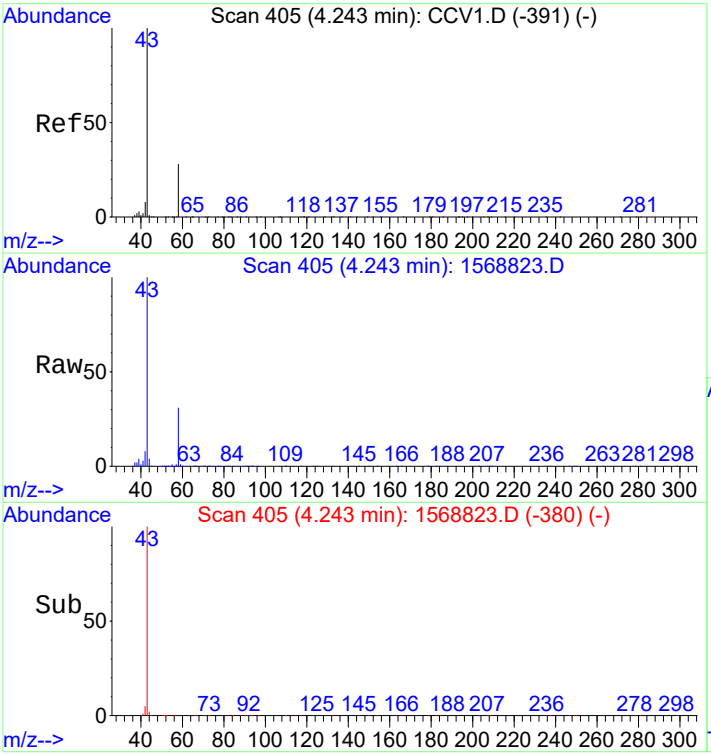



#12
Acrolein
Concen: 0.00 mg/kg
RT: 4.01 min Scan# 367
Delta R.T. 0.01 min
Lab File: 1568823.D
Acq: 11 Apr 2025 11:11

Tgt Ion: 56 Resp: 4506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 127.4 | 165.3 | 205.3# |

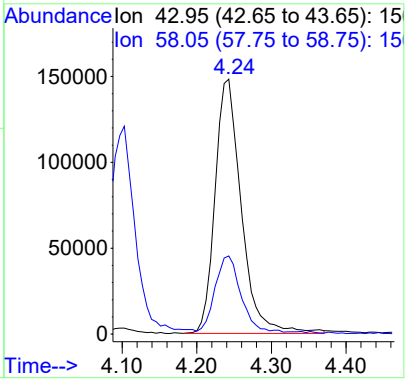


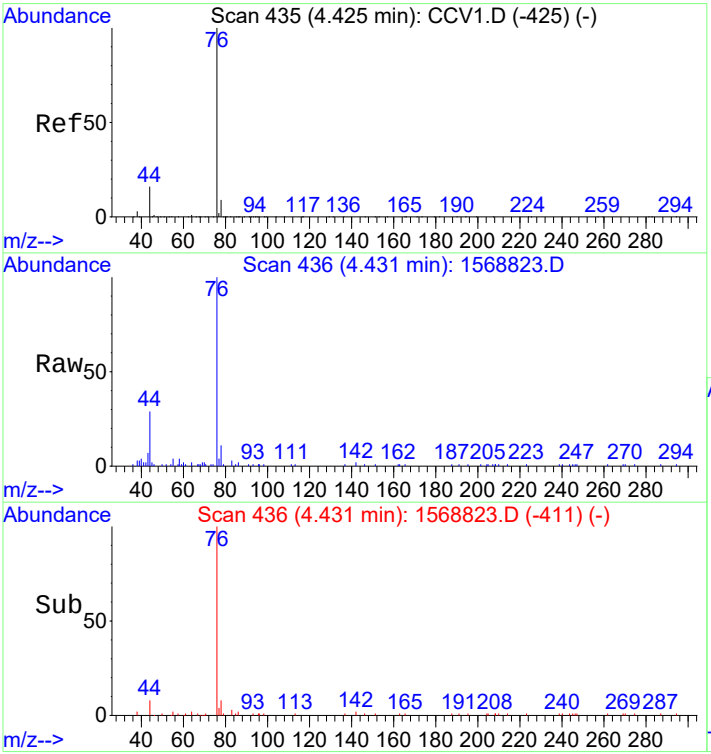



#15
Acetone
Concen: 0.10 mg/kg
RT: 4.24 min Scan# 405
Delta R.T. 0.00 min
Lab File: 1568823.D
Acq: 11 Apr 2025 11:11

Tgt Ion: 43 Resp: 362656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.4 | 8.8 | 48.8 |

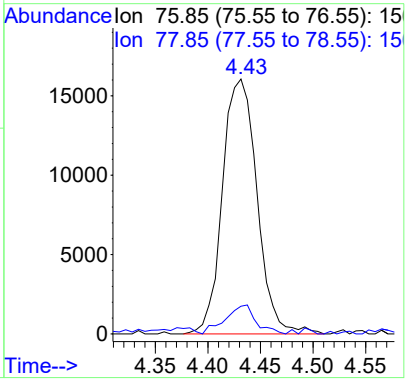


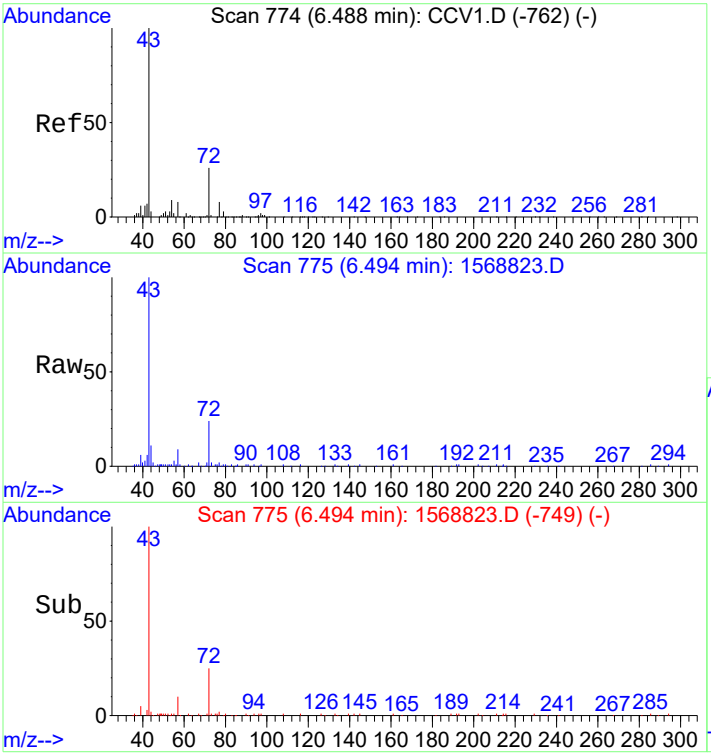




#17
Carbon Dislf
Concen: 0.00 mg/kg
RT: 4.43 min Scan# 436
Delta R.T. 0.00 min
Lab File: 1568823.D
Acq: 11 Apr 2025 11:11

Tgt Ion: 76 Resp: 36815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.0 | 0.0 | 29.0 |

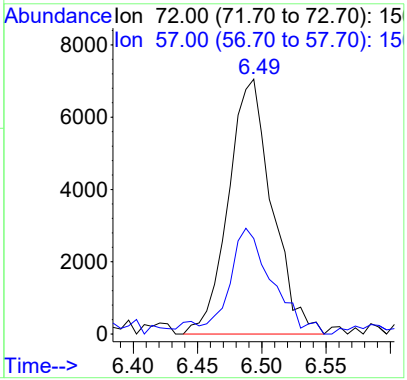


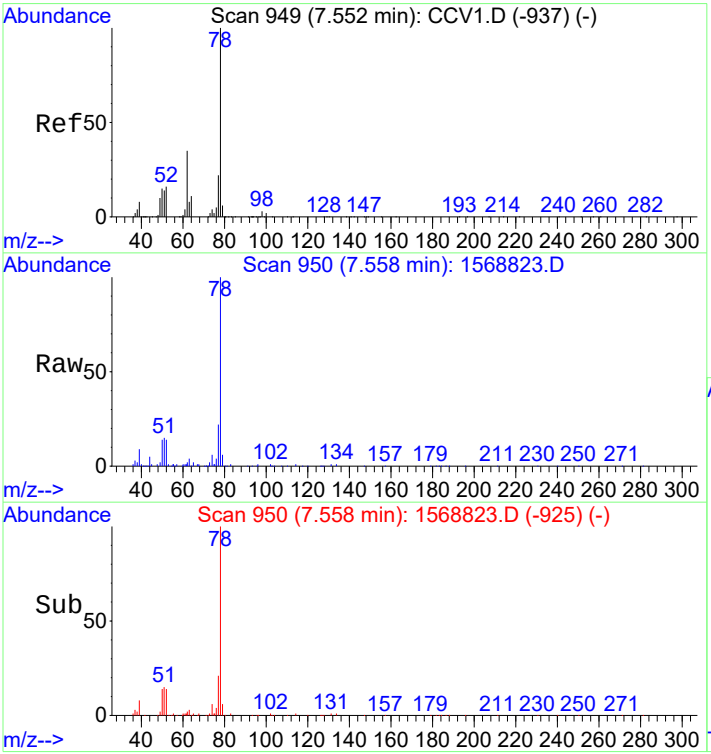



#33
2Butanone
Concen: 0.01 mg/kg
RT: 6.49 min Scan# 775
Delta R.T. 0.01 min
Lab File: 1568823.D
Acq: 11 Apr 2025 11:11

Tgt Ion: 72 Resp: 16686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 40.1 | 10.5 | 50.5 |

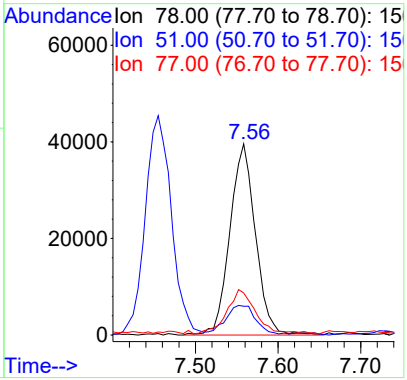


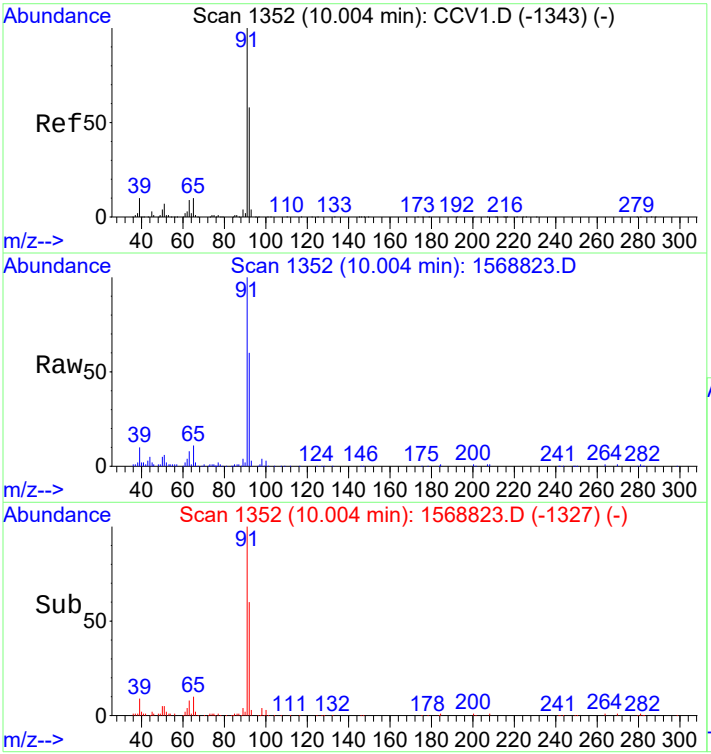




#46
Benzene
Concen: 0.00 mg/kg
RT: 7.56 min Scan# 950
Delta R.T. 0.00 min
Lab File: 1568823.D
Acq: 11 Apr 2025 11:11

Tgt Ion: 78 Resp: 85356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 51 | 19.6 | 0.3 | 40.3 |
| 77 | 26.0 | 4.9 | 44.9 |

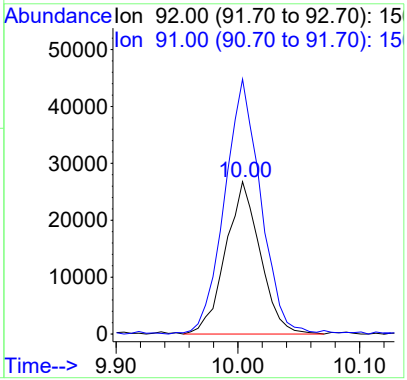


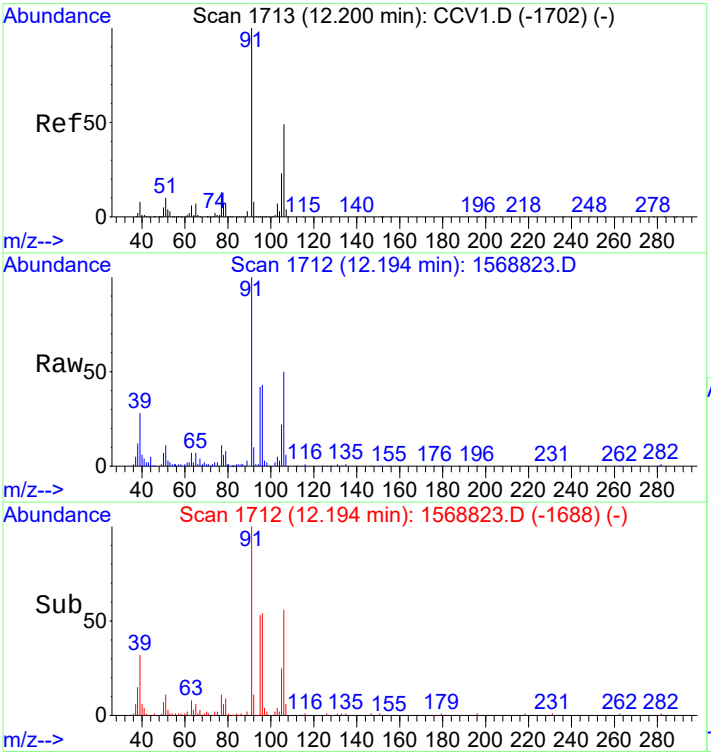



#61
Toluene
Concen: 0.00 mg/kg
RT: 10.00 min Scan# 1352
Delta R.T. 0.00 min
Lab File: 1568823.D
Acq: 11 Apr 2025 11:11

Tgt Ion: 92 Resp: 52917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 176.1 | 148.0 | 188.0 |

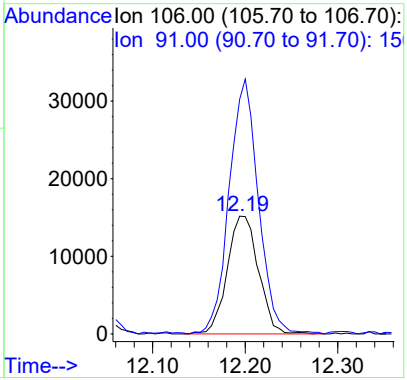


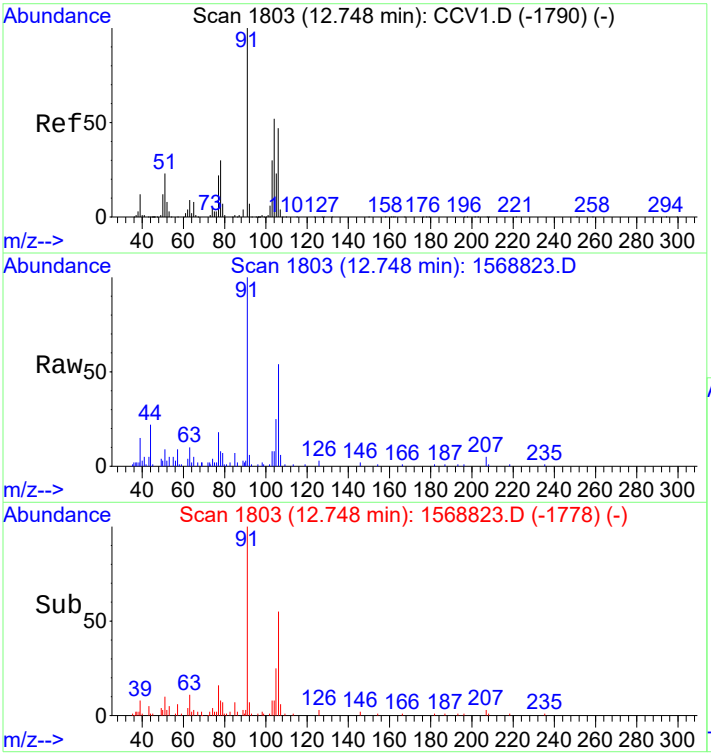




#75
m p-Xylene
Concen: 0.00 mg/kg
RT: 12.19 min Scan# 1712
Delta R.T. -0.01 min
Lab File: 1568823.D
Acq: 11 Apr 2025 11:11

Tgt Ion:106 Resp: 35580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.8 | 183.2 | 223.2 |

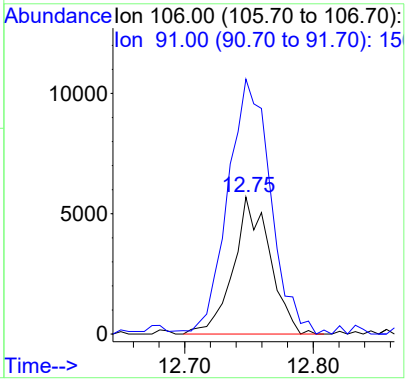


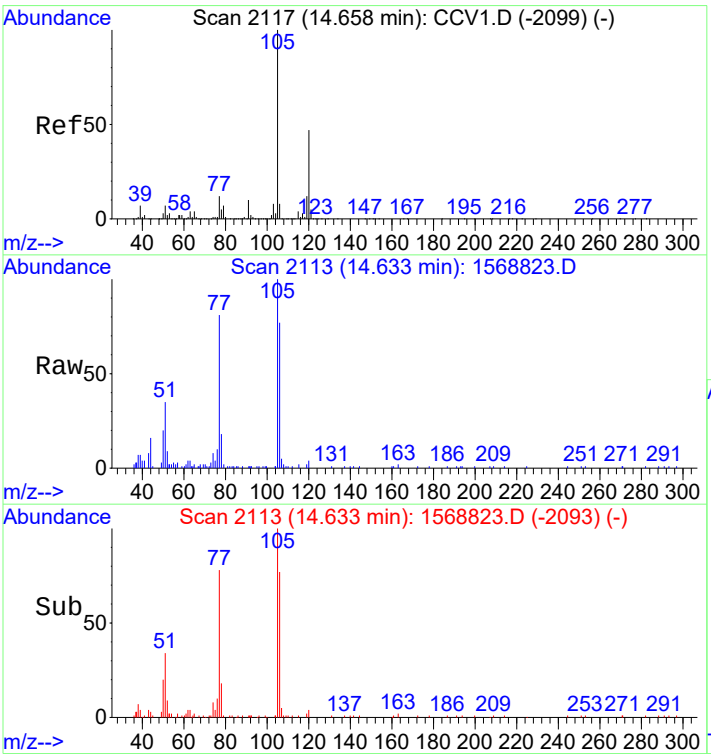



#76
o-Xylene
Concen: 0.00 mg/kg
RT: 12.75 min Scan# 1803
Delta R.T. 0.00 min
Lab File: 1568823.D
Acq: 11 Apr 2025 11:11

Tgt Ion:106 Resp: 11249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.0 | 196.2 | 236.2 |

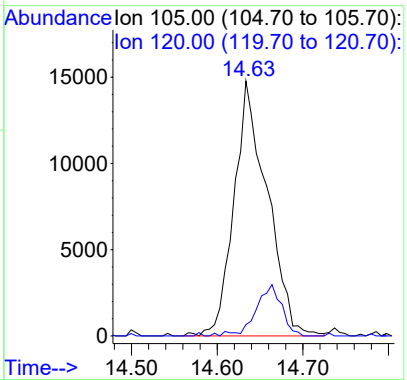


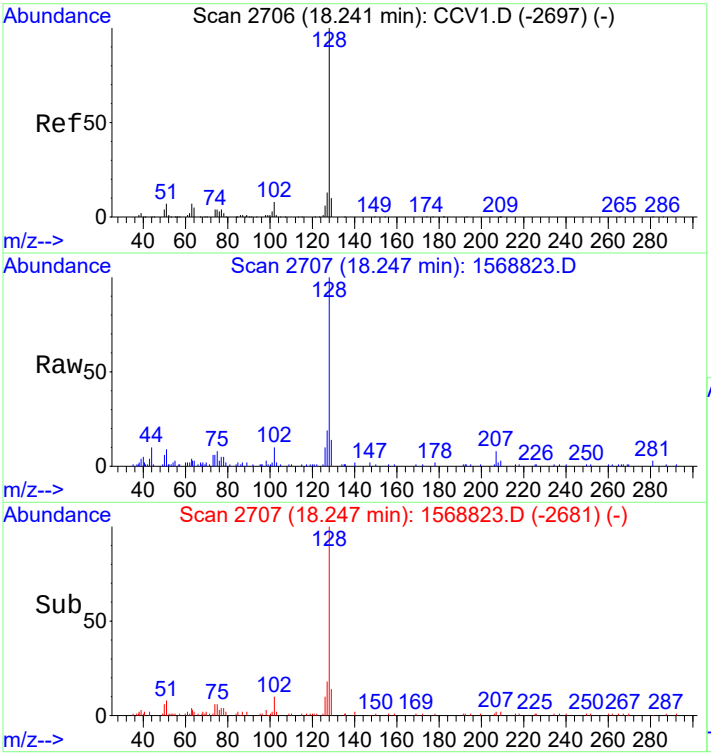

#92
124Trimetben
Concen: 0.00 mg/kg
RT: 14.63 min Scan# 2113
Delta R.T. -0.03 min
Lab File: 1568823.D
Acq: 11 Apr 2025 11:11

Tgt Ion:105 Resp: 39896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 15.5 | 25.8 | 65.8# |



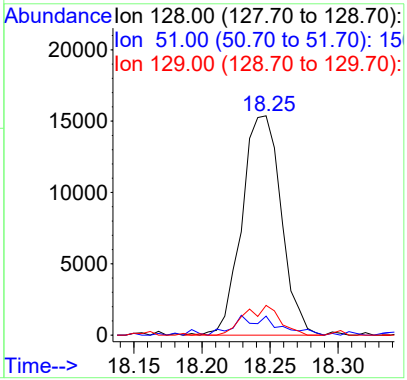

Negative Library Identification




#103
Naphthalene
Concen: 0.00 mg/kg
RT: 18.25 min Scan# 2707
Delta R.T. 0.01 min
Lab File: 1568823.D
Acq: 11 Apr 2025 11:11

Tgt Ion:128 Resp: 30885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 51 | 9.4 | 0.0 | 27.4 |
| 129 | 12.3 | 0.0 | 31.4 |



Library Search Compound Report

Data Path : C:\Instarch\Data\APR1125\
Data File : 1568823.D
Acq On : 11 Apr 2025 11:11
Operator : RLD-DGS
Sample : 290584,1568823,
Misc : 5.74g, 15.0 ml DI H2O Purged + IS/SS
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method

TIC Library : C:\DATABASE\NBS75K.L
TIC Integration Parameters: VOC.P

**********
Peak Number 1 1-Propene, 3,3,3-trifluoro-... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 1.89 | 0.00 mg/kg | 269021 | FLUOROBENZENE**IS | 2208160 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propene, 3,3,3-trifluoro-2-met... | 110 | C4H5F3 | 000374-00-5 | 64 |
| 2 | 2-Butenal | 70 | C4H6O | 004170-30-3 | 64 |
| 3 | 3,6-Pyridazinedione, 1,2-dihydro... | 126 | C5H6N2O2 | 005754-18-7 | 56 |
| 4 | 3-Butenenitrile | 67 | C4H5N | 000109-75-1 | 45 |
| 5 | Furan, 2,5-dihydro- | 70 | C4H6O | 001708-29-8 | 39 |

**********
Peak Number 2 Hydroxylamine, O-pentyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.36 | 0.01 mg/kg | 555437 | FLUOROBENZENE**IS | 2208160 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hydroxylamine, O-pentyl- | 103 | C5H13NO | 005963-74-6 | 33 |
| 2 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 25 |
| 3 | 2-Propanol, 1-amino- | 75 | C3H9NO | 000078-96-6 | 9 |
| 4 | Butane | 58 | C4H10 | 000106-97-8 | 9 |
| 5 | 1,4-Benzenediol, 2,3-dichloro-5,... | 312 | C12H6Cl2N2O4 | 000000-00-0 | 9 |

**********
Peak Number 3 Acetaldehyde Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.53 | 0.03 mg/kg | 3159310 | FLUOROBENZENE**IS | 2208160 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 86 |
| 2 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 64 |
| 3 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 56 |
| 4 | Diazenedicarboxamide | 116 | C2H4N4O2 | 000123-77-3 | 9 |
| 5 | Ethylene oxide | 44 | C2H4O | 000075-21-8 | 5 |

**********
Peak Number 4 Pentane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.56 | 0.00 mg/kg | 336922 | FLUOROBENZENE**IS | 2208160 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 80 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 80 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |
| 4 | Oxirane, ethyl- | 72 | C4H8O | 000106-88-7 | 50 |
| 5 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 33 |

**********

Peak Number 5 Propanal Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 4.10 | 0.00 mg/kg | 481082 | FLUOROBENZENE**IS | 2208160 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanal | 58 | C3H6O | 000123-38-6 | 78 |
| 2 | Propanal | 58 | C3H6O | 000123-38-6 | 50 |
| 3 | Propanal | 58 | C3H6O | 000123-38-6 | 40 |
| 4 | Propanal | 58 | C3H6O | 000123-38-6 | 40 |
| 5 | Trimethylene oxide | 58 | C3H6O | 000503-30-0 | 9 |

**********

Peak Number 6 Butanal Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 6.24 | 0.00 mg/kg | 314157 | FLUOROBENZENE**IS | 2208160 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal | 72 | C4H8O | 000123-72-8 | 91 |
| 2 | Butanal | 72 | C4H8O | 000123-72-8 | 74 |
| 3 | Butanal | 72 | C4H8O | 000123-72-8 | 64 |
| 4 | Butanal | 72 | C4H8O | 000123-72-8 | 58 |
| 5 | Butanal | 72 | C4H8O | 000123-72-8 | 58 |

**********

Peak Number 7 Butanal, 3-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 7.73 | 0.00 mg/kg | 216152 | FLUOROBENZENE**IS | 2208160 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 93 |
| 2 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 87 |
| 3 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 62 |
| 4 | 2-Propanamine, 1-(2,6-dimethylph... | 179 | C11H17NO | 031828-71-4 | 50 |
| 5 | Pentanal | 86 | C5H10O | 000110-62-3 | 40 |

**********

Peak Number 8 Pentanal Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 8.70 | 0.01 mg/kg | 726243 | FLUOROBENZENE**IS | 2208160 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanal | 86 | C5H10O | 000110-62-3 | 90 |
| 2 | Pentanal | 86 | C5H10O | 000110-62-3 | 78 |
| 3 | Pentanal | 86 | C5H10O | 000110-62-3 | 78 |

| | | | | | |
|---|---|---|---|---|---|
| 4 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 64 |
| 5 | Pentanal | 86 | C5H10O | 000110-62-3 | 56 |

**********

Peak Number 9 2H-Pyran-2-one, tetrahydro-... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.33 | 0.00 mg/kg | 109920 | d5-CHLOROBENZENE* | 2094840 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2H-Pyran-2-one, tetrahydro-6,6-d... | 128 | C7H12O2 | 002610-95-9 | 43 |
| 2 | 2,2-Dimethyl-3-hydroxypropionald... | 102 | C5H10O2 | 000597-31-9 | 33 |
| 3 | Pyrrolidin, 2-methylthio-5-heptyl- | 215 | C12H25NS | 000000-00-0 | 33 |
| 4 | 1H-1,2,4-Triazole-3-carboxaldehy... | 111 | C4H5N3O | 056804-98-9 | 28 |
| 5 | 1-Butanol, 2-methyl- | 88 | C5H12O | 000137-32-6 | 25 |

**********

Peak Number 10 Arsenous acid, tris(trimeth... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.58 | 0.00 mg/kg | 112663 | d5-CHLOROBENZENE* | 2094840 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Arsenous acid, tris(trimethylsil... | 342 | C9H27AsO3Si3 | 055429-29-3 | 72 |
| 2 | Cyclotrisiloxane, hexamethyl- | 222 | C6H18O3Si3 | 000541-05-9 | 45 |
| 3 | Tetrasiloxane, decamethyl- | 310 | C10H30O3Si4 | 000141-62-8 | 43 |
| 4 | Cyclotrisiloxane, hexamethyl- | 222 | C6H18O3Si3 | 000541-05-9 | 23 |
| 5 | 7-Hydroxy-7,8,9,10-tetramethyl-7... | 252 | C18H20O | 000000-00-0 | 23 |

**********

Peak Number 11 Hexanal Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.98 | 0.03 mg/kg | 3541850 | d5-CHLOROBENZENE* | 2094840 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 81 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 80 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 80 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 72 |
| 5 | Hexanal | 100 | C6H12O | 000066-25-1 | 70 |

**********

Peak Number 12 Heptanal Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 13.05 | 0.00 mg/kg | 280216 | d5-CHLOROBENZENE* | 2094840 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptanal | 114 | C7H14O | 000111-71-7 | 83 |
| 2 | Heptanal | 114 | C7H14O | 000111-71-7 | 72 |
| 3 | Heptanal | 114 | C7H14O | 000111-71-7 | 72 |
| 4 | Heptanal | 114 | C7H14O | 000111-71-7 | 64 |
| 5 | Heptanal | 114 | C7H14O | 000111-71-7 | 64 |

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Peak Number 13 Cyclotetrasiloxane, octamet... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 13.84 | 0.00 mg/kg | 269634 | d4-1,4-DICHLOROBE | 2011300 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 | 64 |
| 2 | Benzene, 1-phenyl-4-(2-cyano-2-p... | 281 | C21H15N | 027869-56-3 | 45 |
| 3 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 | 43 |
| 4 | 2-Oxo-4-phenyl-6-(4-chlorophenyl... | 282 | C16H11ClN2O | 000000-00-0 | 17 |
| 5 | 6,7-Benzo-phenothiazine-5,5-dioxide | 281 | C16H11NO2S | 000000-00-0 | 9 |

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Peak Number 14 2-Heptanone, 6-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.13 | 0.00 mg/kg | 101879 | d4-1,4-DICHLOROBE | 2011300 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 43 |
| 2 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 43 |
| 3 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 35 |
| 4 | 2-Hexanone, 5-methyl- | 114 | C7H14O | 000110-12-3 | 35 |
| 5 | 2-Hexanone, 4-methyl- | 114 | C7H14O | 000105-42-0 | 35 |

**********

Peak Number 15 Octanal Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.95 | 0.00 mg/kg | 202889 | d4-1,4-DICHLOROBE | 2011300 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octanal | 128 | C8H16O | 000124-13-0 | 91 |
| 2 | Octanal | 128 | C8H16O | 000124-13-0 | 90 |
| 3 | Octanal | 128 | C8H16O | 000124-13-0 | 59 |
| 4 | Cyclopentanol, 2-methyl-, trans- | 100 | C6H12O | 025144-04-1 | 49 |
| 5 | Cyclopentanol, 2-methyl-, cis- | 100 | C6H12O | 025144-05-2 | 45 |

**********

Peak Number 16 1,4-Dichlorobenzene-d4 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 15.70 | 0.02 mg/kg | 1888800 | d4-1,4-DICHLOROBE | 2011300 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 150 | C6Cl2D4 | 003855-82-1 | 95 |
| 2 | Benzene-1,2,3,4-d4-, 5,6-dichloro- | 150 | C6Cl2D4 | 002199-69-1 | 94 |
| 3 | Benzaldehyde, 2-hydroxy-3-methoxy- | 152 | C8H8O3 | 000148-53-8 | 35 |
| 4 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 10 |
| 5 | 9-Borabicyclo[3.3.1]nonane, 9-et... | 150 | C10H19B | 052102-17-7 | 9 |

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Peak Number 17 Nonanal Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 16.67 | 0.00 mg/kg | 150384 | d4-1,4-DICHLOROBE | 2011300 | 15.15 |



| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 1 | Nonanal | 142 | C9H18O | 000124-19-6 50 |
| 2 | Aziridine, 2-ethyl- | 71 | C4H9N | 002549-67-9 22 |
| 3 | Hydroxylamine, O-pentyl- | 103 | C5H13NO | 005963-74-6 22 |
| 4 | 1-Butanol, 2-methyl- | 88 | C5H12O | 000137-32-6 22 |
| 5 | Cyclohexanol, 4-methyl-, cis- | 114 | C7H14O | 007731-28-4 22 |

**********

Peak Number 18  2,4,5-Trimethoxyamphetamine  Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 17.96 | 0.00 mg/kg | 123356 | d4-1,4-DICHLOROBE | 2011300 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4,5-Trimethoxyamphetamine | 225 | C12H19NO3 | 000000-00-0 | 25 |
| 2 | 4,4'-Dimethylbiphenyl | 182 | C14H14 | 000613-33-2 | 14 |
| 3 | Benzo[b]selenophene | 182 | C8H6Se | 000272-30-0 | 9 |
| 4 | Acetoacetic acid, 1-thio-, S-all... | 158 | C7H10O2S | 015780-65-1 | 9 |
| 5 | 1H-Benzotriazole, 1-acetyl- | 161 | C8H7N3O | 018773-93-8 | 9 |

LS041025.M Mon Apr 14 13:52:30 2025

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568822.D Vial: 9
Acq On : 11 Apr 2025 11:40 Operator: RLD-DGS
Sample : 290584,1568822, Inst : VMS4
Misc : 5.02g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 12:01:21 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1064343 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 785760 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 331150 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 282898 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 56061 | 0.021 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 105 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1032522 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 362589 | 0.023 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 115 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.19 | 50 | 2458 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.85 | 94 | 4838 | N.D. | | |
| 6) Chloroethane | 2.92 | 64 | 13723 | 0.0014 | mg/kg# | 42 |
| 7) dichloroflmethane | 3.35 | 67 | 3994 | N.D. | | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 3.88 | 67 | 7508 | 0.0005 | mg/kg# | 25 |
| 11) propyleneoxide | 4.10 | 58 | 78176 | 0.0426 | mg/kg | 99 |
| 12) Acrolein | 4.01 | 56 | 5160 | 0.0026 | mg/kg# | 1 |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.24 | 43 | 476721 | 0.1146 | mg/kg | 97 |
| 16) Iodomethane | 4.33 | 142 | 5174 | 0.0004 | mg/kg# | 87 |
| 17) Carbon Dislf | 4.43 | 76 | 217413 | 0.0068 | mg/kg | 99 |
| 18) allylchloride | 4.57 | 41 | 2451 | N.D. | | |
| 19) methylacetate | 4.71 | 74 | 5114 | 0.0012 | mg/kg | 98 |
| 20) Methylchlorid | 4.80 | 84 | 8878 | Below | Cal | 95 |
| 21) Acrylonitrile | 5.17 | 53 | 1365 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 5.05 | 59 | 25147 | 0.0359 | mg/kg | 93 |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 5.59 | 57 | 48849 | 0.0030 | mg/kg | 98 |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 5.78 | 43 | 1335 | N.D. | | |
| 28) chloroprene | 5.84 | 53 | 1288 | N.D. | | |
| 29) Diisopether | 5.86 | 45 | 1174 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.48 | 77 | 1516 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 6.49 | 72 | 21786 | 0.0171 | mg/kg | 91 |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 6.82 | 67 | 2573 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.88 | 42 | 3098 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568822.D Vial: 9
Acq On : 11 Apr 2025 11:40 Operator: RLD-DGS
Sample : 290584,1568822, Inst : VMS4
Misc : 5.02g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 12:01:21 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 6.85 | 83 | 1712 | N.D. | |
| 40) 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) Cyclohexane | 7.20 | 56 | 9121 | 0.0005 mg/kg# | 68 |
| 43) Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) Benzene | 7.56 | 78 | 27737 | 0.0005 mg/kg | 91 |
| 47) 12dichlorota | 7.55 | 62 | 1437 | N.D. | |
| 48) TAME | 0.00 | 73 | 0 | N.D. | |
| 49) trichloroete | 8.37 | 95 | 2388 | N.D. | |
| 50) methylcyclohexane | 8.64 | 83 | 12033 | 0.0005 mg/kg | 95 |
| 51) 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) methylmethacrylate | 8.85 | 69 | 1105 | N.D. | |
| 55) 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) Bromodiclrma | 9.04 | 83 | 2837 | N.D. | |
| 57) 2Nitropropane | 9.25 | 43 | 1049 | N.D. | |
| 58) c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) 4Meth2Pentan | 9.76 | 43 | 7185 | N.D. | |
| 61) Toluene | 10.00 | 92 | 33579 | 0.0010 mg/kg | 96 |
| 62) t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) ethylmethacrylate | 10.48 | 69 | 1913 | N.D. | |
| 64) 112Triclotha | 10.37 | 83 | 1724 | N.D. | |
| 65) Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) 2Hexanone | 10.85 | 43 | 6313 | N.D. | |
| 69) Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) 1Clhexane | 11.84 | 91 | 2599 | N.D. | |
| 73) 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) Ethylbenzene | 12.04 | 91 | 10771 | N.D. | |
| 75) m p-Xylene | 12.20 | 106 | 11187 | N.D. | |
| 76) o-Xylene | 12.74 | 106 | 4435 | N.D. | |
| 77) Styrene | 12.75 | 104 | 1022 | N.D. | |
| 78) Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) Isopropylben | 13.28 | 105 | 2028 | N.D. | |
| 81) cyclohexanone | 13.39 | 55 | 2450 | N.D. | |
| 83) Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) 14dichloro2butene | 13.79 | 53 | 1127 | 0.0020 mg/kg# | 1 |
| 87) n-Propylbenz | 13.86 | 91 | 4866 | N.D. | |
| 88) 2chlorotolue | 13.98 | 91 | 4736 | N.D. | |
| 89) 4chlorotolue | 14.12 | 91 | 2554 | N.D. | |
| 90) 135Trimebenz | 14.12 | 105 | 5353 | N.D. | |
| 91) tbutylbenzen | 14.66 | 119 | 2252 | N.D. | |
| 92) 124Trimetben | 14.64 | 105 | 40774 | 0.0010 mg/kg# | 52 |
| 93) sbutylbenzen | 14.92 | 105 | 1982 | N.D. | |
| 94) 13Diclorbenz | 15.14 | 146 | 1071 | N.D. | |
| 95) pIsopropylto | 15.13 | 119 | 30986 | N.D. | |
| 96) 14dichlorobe | 15.14 | 146 | 1071 | N.D. | |
| 97) 12dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 98) nButylbenzen | 15.72 | 91 | 2462 | N.D. | |
| 99) 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568822.D Vial: 9
Acq On : 11 Apr 2025 11:40 Operator: RLD-DGS
Sample : 290584,1568822, Inst : VMS4
Misc : 5.02g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 12:01:21 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) | Naphthalene | 18.24 | 128 | 109209 | 0.0044 | mg/kg | 98 |
| 104) | 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

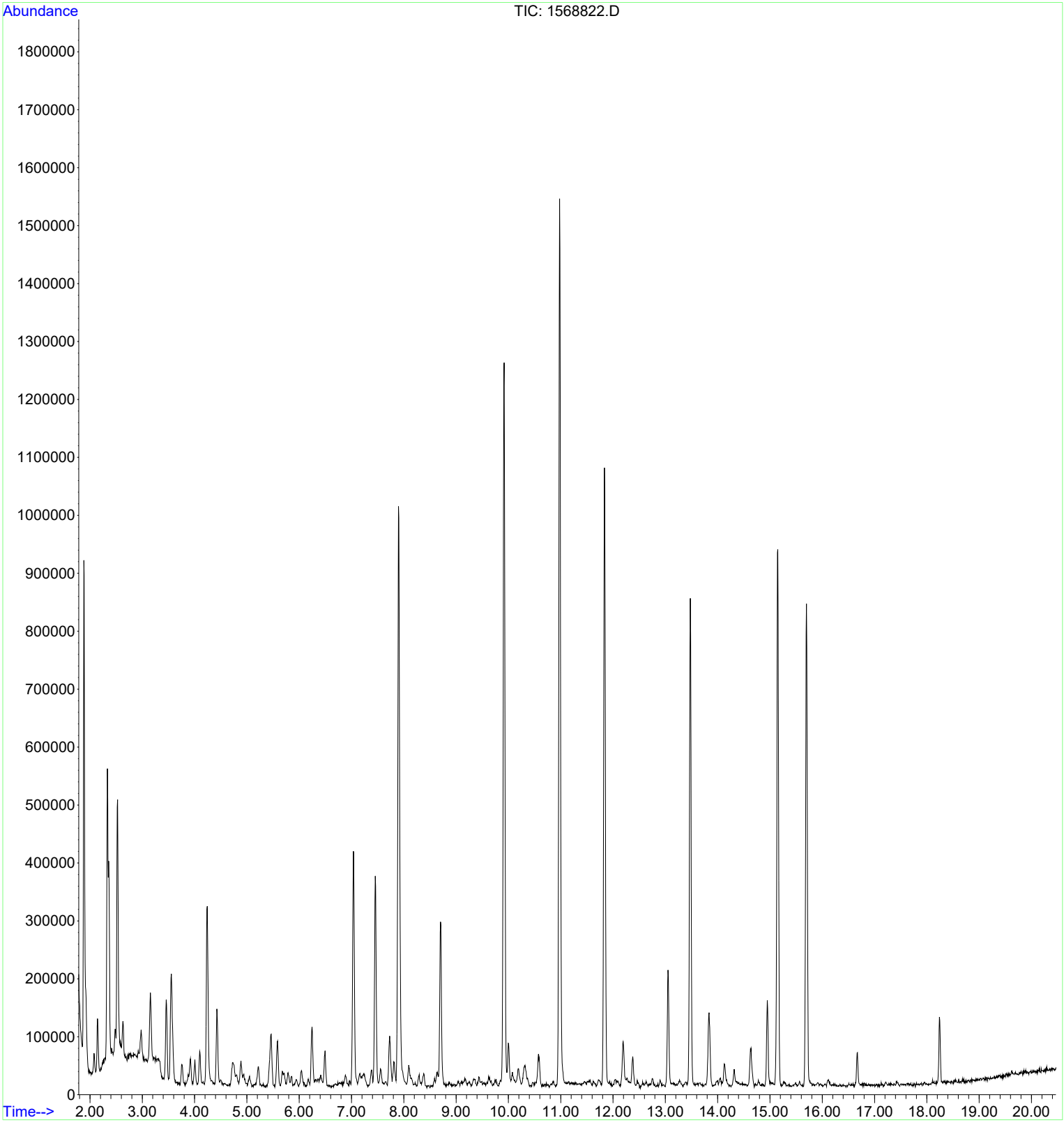
(#) = qualifier out of range (m) = manual integration

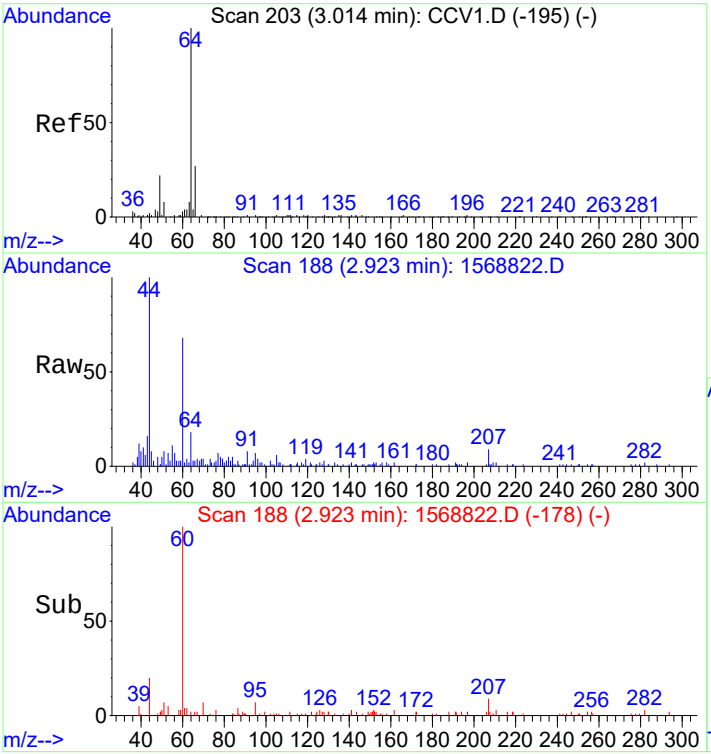
Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568822.D Vial: 9
Acq On : 11 Apr 2025 11:40 Operator: RLD-DGS
Sample : 290584,1568822, Inst : VMS4
Misc : 5.02g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 12:01:21 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

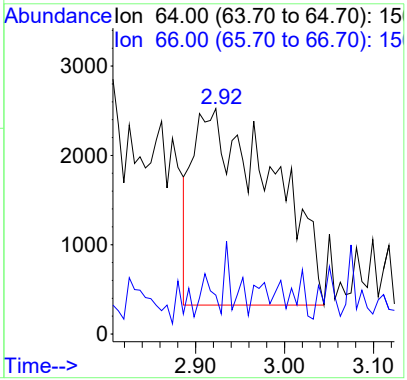




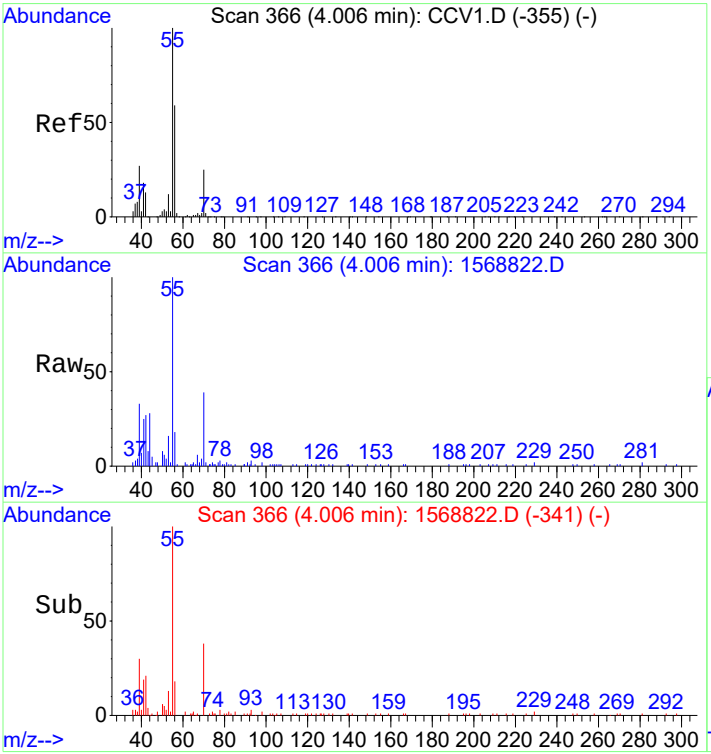

#6
Chloroethane
Concen: 0.00 mg/kg
RT: 2.92 min Scan# 188
Delta R.T. -0.09 min
Lab File: 1568822.D
Acq: 11 Apr 2025 11:40

Tgt Ion: 64 Resp: 13723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 13.1 | 53.1# |



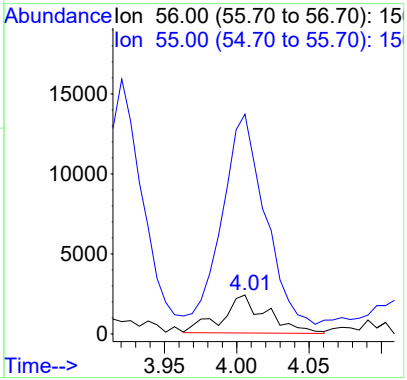

Negative Library Identification



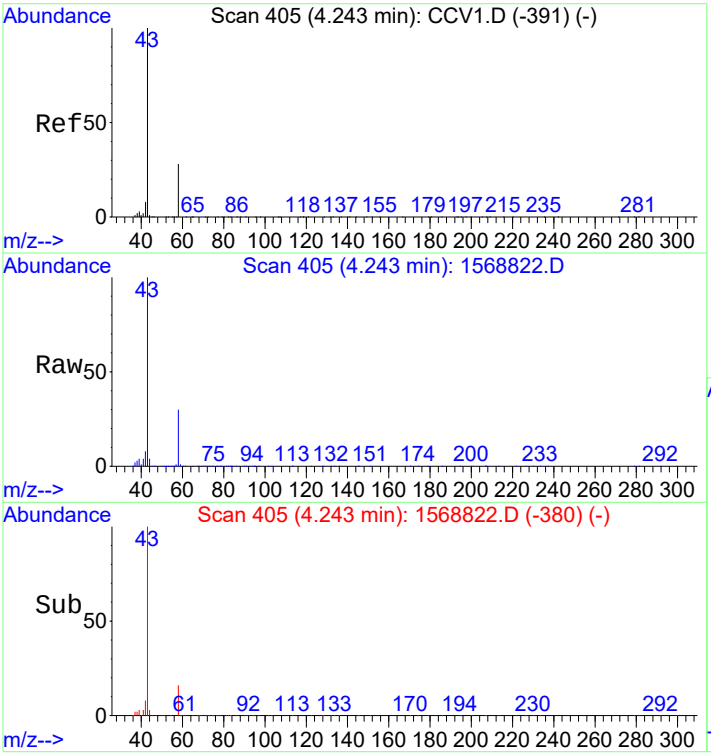

#12
Acrolein
Concen: 0.00 mg/kg
RT: 4.01 min Scan# 366
Delta R.T. 0.00 min
Lab File: 1568822.D
Acq: 11 Apr 2025 11:40

Tgt Ion: 56 Resp: 5160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 571.1 | 165.3 | 205.3# |



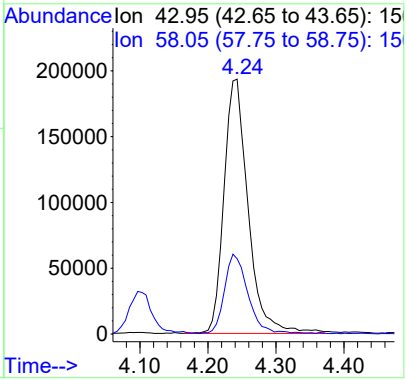

Negative Library Identification

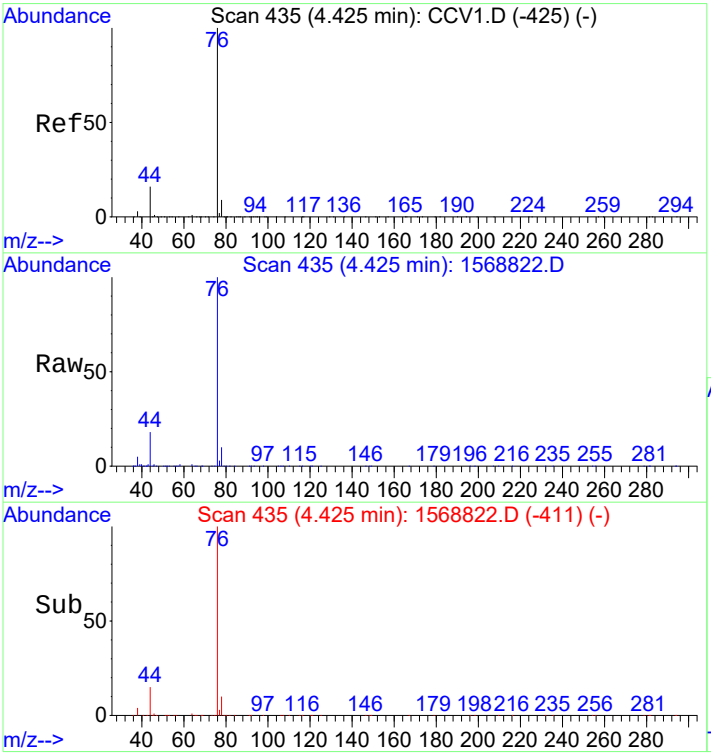



#15
Acetone
Concen: 0.11 mg/kg
RT: 4.24 min Scan# 405
Delta R.T. 0.00 min
Lab File: 1568822.D
Acq: 11 Apr 2025 11:40

Tgt Ion: 43 Resp: 476721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.3 | 8.8 | 48.8 |

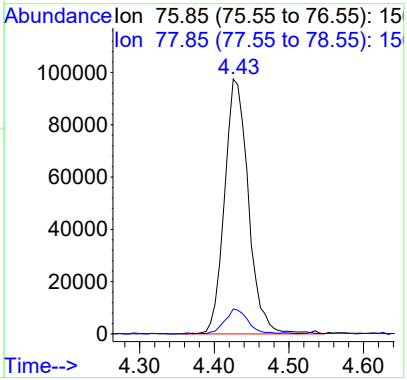


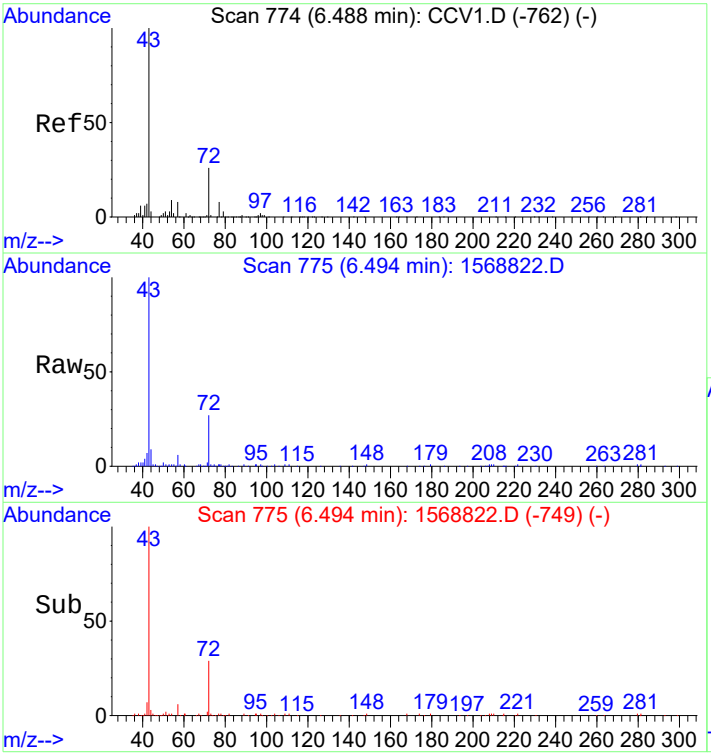




#17
Carbon Dislf
Concen: 0.01 mg/kg
RT: 4.43 min Scan# 435
Delta R.T. -0.01 min
Lab File: 1568822.D
Acq: 11 Apr 2025 11:40

Tgt Ion: 76 Resp: 217413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 0.0 | 29.0 |

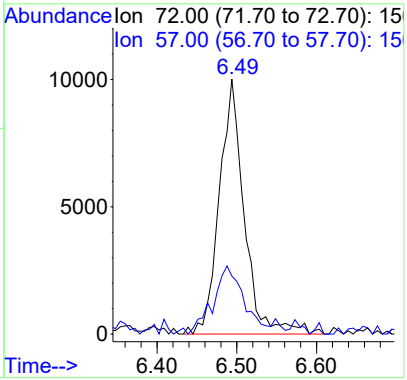


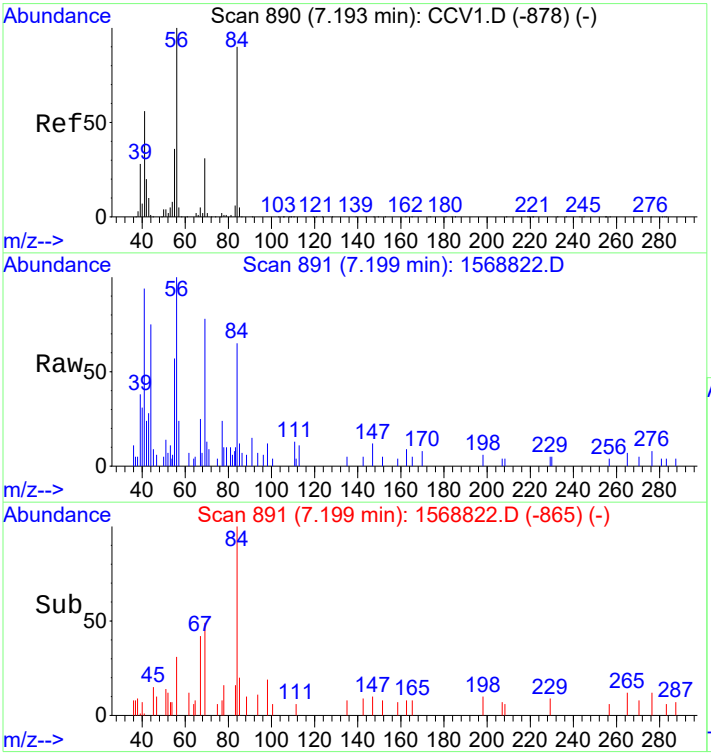



#33
2Butanone
Concen: 0.02 mg/kg
RT: 6.49 min Scan# 775
Delta R.T. 0.01 min
Lab File: 1568822.D
Acq: 11 Apr 2025 11:40

Tgt Ion: 72 Resp: 21786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 35.3 | 10.5 | 50.5 |

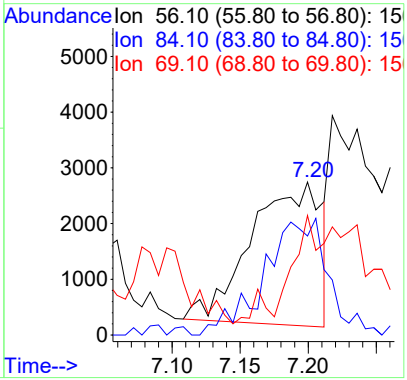


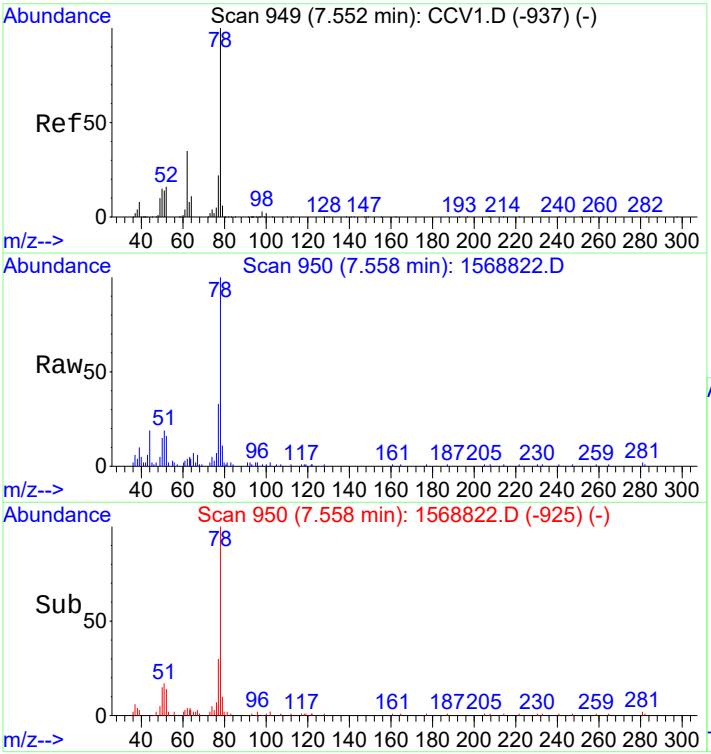

#42
Cyclohexane
Concen: 0.00 mg/kg
RT: 7.20 min Scan# 891
Delta R.T. 0.01 min
Lab File: 1568822.D
Acq: 11 Apr 2025 11:40

Tgt Ion: 56 Resp: 9121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 73.7 | 67.6 | 107.6 |
| 69 | 73.8 | 10.6 | 50.6# |



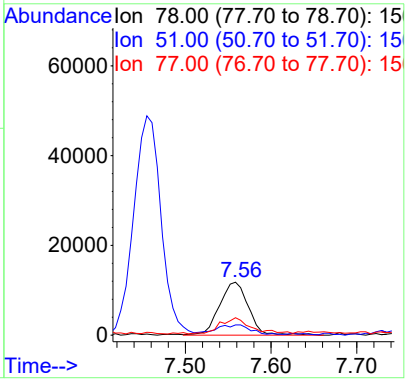

Negative Library Identification

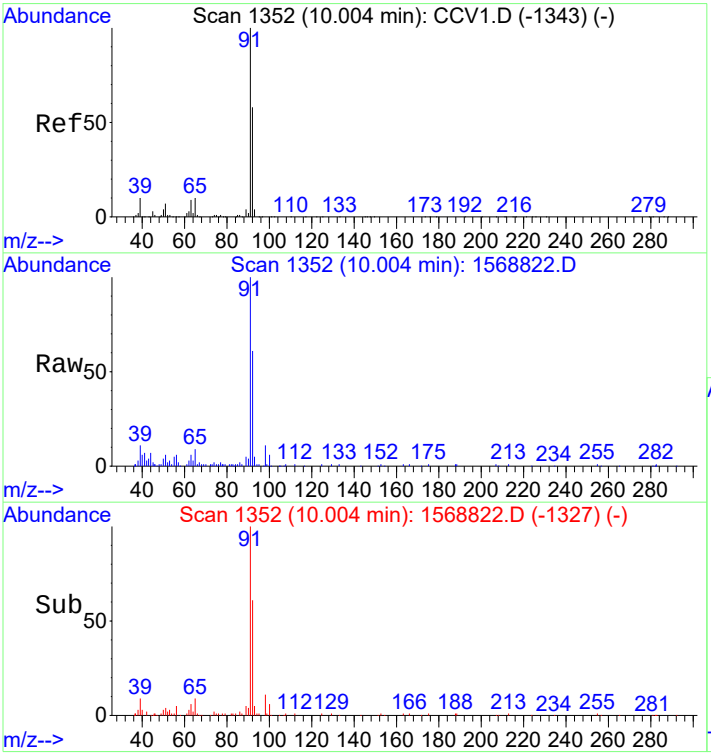



#46
Benzene
Concen: 0.00 mg/kg
RT: 7.56 min Scan# 950
Delta R.T. 0.00 min
Lab File: 1568822.D
Acq: 11 Apr 2025 11:40

Tgt Ion: 78 Resp: 27737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 51 | 21.9 | 0.3 | 40.3 |
| 77 | 31.9 | 4.9 | 44.9 |

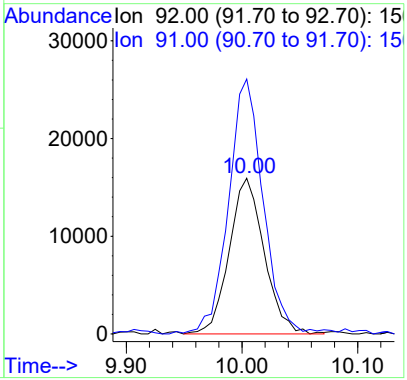


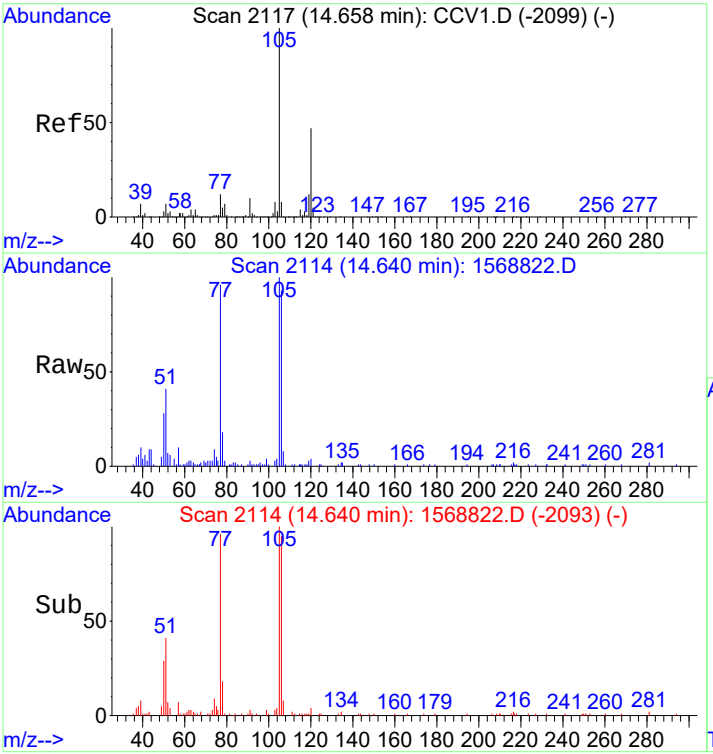




#61
Toluene
Concen: 0.00 mg/kg
RT: 10.00 min Scan# 1352
Delta R.T. 0.00 min
Lab File: 1568822.D
Acq: 11 Apr 2025 11:40

Tgt Ion: 92 Resp: 33579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 162.9 | 148.0 | 188.0 |

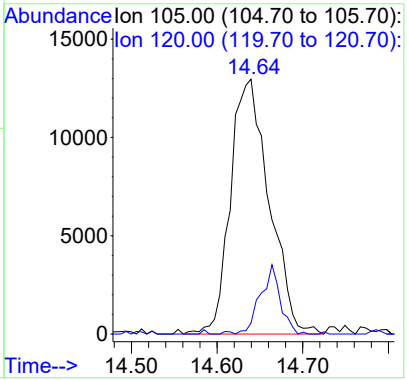




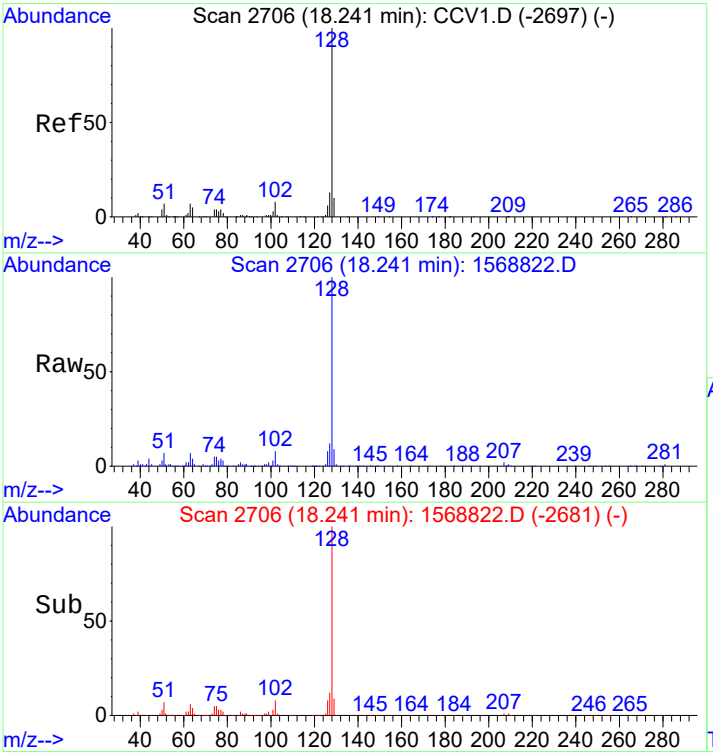

#92
124Trimetben
Concen: 0.00 mg/kg
RT: 14.64 min Scan# 2114
Delta R.T. -0.02 min
Lab File: 1568822.D
Acq: 11 Apr 2025 11:40

Tgt Ion:105 Resp: 40774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 13.8 | 25.8 | 65.8# |



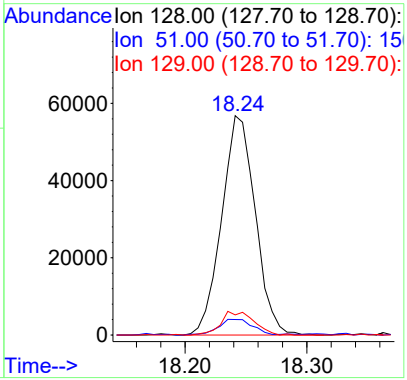

Negative Library Identification




#103
Naphthalene
Concen: 0.00 mg/kg
RT: 18.24 min Scan# 2706
Delta R.T. 0.00 min
Lab File: 1568822.D
Acq: 11 Apr 2025 11:40

Tgt Ion:128 Resp: 109209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 51 | 7.6 | 0.0 | 27.4 |
| 129 | 10.5 | 0.0 | 31.4 |



Library Search Compound Report

Data Path : C:\Instarch\Data\APR1125\
Data File : 1568822.D
Acq On : 11 Apr 2025 11:40
Operator : RLD-DGS
Sample : 290584,1568822,
Misc : 5.02g, 15.0 ml DI H2O Purged + IS/SS
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method

TIC Library : C:\DATABASE\NBS75K.L
TIC Integration Parameters: VOC.P

**********
Peak Number 1 Propene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 1.88 | 0.01 mg/kg | 1653260 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propene | 42 | C3H6 | 000115-07-1 | 90 |
| 2 | Propene | 42 | C3H6 | 000115-07-1 | 42 |
| 3 | Cyclopropane | 42 | C3H6 | 000075-19-4 | 40 |
| 4 | Cyclopropane | 42 | C3H6 | 000075-19-4 | 40 |
| 5 | Cyclopropane | 42 | C3H6 | 000075-19-4 | 1 |

**********
Peak Number 2 Isobutane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.14 | 0.00 mg/kg | 237636 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isobutane | 58 | C4H10 | 000075-28-5 | 53 |
| 2 | Isobutane | 58 | C4H10 | 000075-28-5 | 53 |
| 3 | Isobutane | 58 | C4H10 | 000075-28-5 | 42 |
| 4 | Propane, 1-chloro-2-methyl- | 92 | C4H9Cl | 000513-36-0 | 9 |
| 5 | trans-2,3-Epoxynonane | 142 | C9H18O | 056820-01-0 | 9 |

**********
Peak Number 3 1-Propene, 2-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.33 | 0.01 mg/kg | 1717630 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 90 |
| 2 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 90 |
| 3 | 1-Butene | 56 | C4H8 | 000106-98-9 | 87 |
| 4 | 1-Butene | 56 | C4H8 | 000106-98-9 | 87 |
| 5 | 1-Butene | 56 | C4H8 | 000106-98-9 | 87 |

**********
Peak Number 4 Acetaldehyde Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.53 | 0.02 mg/kg | 2045880 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 56 |
| 2 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 9 |
| 3 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 7 |
| 4 | Propane | 44 | C3H8 | 000074-98-6 | 5 |
| 5 | Ethylene oxide | 44 | C2H4O | 000075-21-8 | 5 |

**********

Peak Number 5 Butane, 2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.15 | 0.01 mg/kg | 714684 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 64 |
| 2 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 58 |
| 3 | Hexane, 1-fluoro- | 104 | C6H13F | 000373-14-8 | 42 |
| 4 | Propane, 1-chloro-2-methyl- | 92 | C4H9Cl | 000513-36-0 | 33 |
| 5 | 1-Propanol, 2-methyl- | 74 | C4H10O | 000078-83-1 | 28 |

**********

Peak Number 6 1-Pentene Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.46 | 0.00 mg/kg | 283849 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 90 |
| 2 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 87 |
| 3 | Cyclopropane, ethyl- | 70 | C5H10 | 001191-96-4 | 83 |
| 4 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 70 |
| 5 | 2(3H)-Furanone, dihydro-3,5-dime... | 114 | C6H10O2 | 005145-01-7 | 64 |

**********

Peak Number 7 Pentane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.56 | 0.00 mg/kg | 588583 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 64 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 50 |
| 4 | Oxirane, ethyl- | 72 | C4H8O | 000106-88-7 | 37 |
| 5 | 1-Propanol, 2-methyl- | 74 | C4H10O | 000078-83-1 | 33 |

**********

Peak Number 8 Cyclopropane, 1-ethyl-1-met... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 4.73 | 0.00 mg/kg | 214555 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopropane, 1-ethyl-1-methyl- | 84 | C6H12 | 053778-43-1 | 64 |
| 2 | Cyclopropane, 1-ethyl-2-methyl-,... | 84 | C6H12 | 019781-68-1 | 47 |
| 3 | 1-Hexene | 84 | C6H12 | 000592-41-6 | 47 |

| | | | | |
|---|---|---|---|---|
| 4 1-Hexene | 84 C6H12 | 000592-41-6 47 | | |
| 5 1-Butene | 56 C4H8 | 000106-98-9 35 | | |

**********

Peak Number 9 1-Pentene, 2-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 5.47 | 0.00 mg/kg | 288110 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 87 |
| 2 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 80 |
| 3 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 59 |
| 4 | 1-Hexene | 84 | C6H12 | 000592-41-6 | 53 |
| 5 | 1-Hexene | 84 | C6H12 | 000592-41-6 | 53 |

**********

Peak Number 10 Hexane Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 5.59 | 0.00 mg/kg | 195033 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane | 86 | C6H14 | 000110-54-3 | 72 |
| 2 | Hexane | 86 | C6H14 | 000110-54-3 | 72 |
| 3 | Hexane | 86 | C6H14 | 000110-54-3 | 50 |
| 4 | Hexane | 86 | C6H14 | 000110-54-3 | 50 |
| 5 | Cyclopropane, propyl- | 84 | C6H12 | 002415-72-7 | 38 |

**********

Peak Number 11 Butanal Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 6.24 | 0.00 mg/kg | 311690 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal | 72 | C4H8O | 000123-72-8 | 91 |
| 2 | Butanal | 72 | C4H8O | 000123-72-8 | 91 |
| 3 | Butanal | 72 | C4H8O | 000123-72-8 | 64 |
| 4 | Butanal | 72 | C4H8O | 000123-72-8 | 64 |
| 5 | Butanal | 72 | C4H8O | 000123-72-8 | 50 |

**********

Peak Number 12 Butanal, 3-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 7.73 | 0.00 mg/kg | 222333 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 94 |
| 2 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 81 |
| 3 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 58 |
| 4 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 42 |
| 5 | Pentanal | 86 | C5H10O | 000110-62-3 | 38 |

**********



Peak Number 13 Pentanal Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 8.70 | 0.01 mg/kg | 653461 | FLUOROBENZENE**IS | 2512460 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanal | 86 | C5H10O | 000110-62-3 | 56 |
| 2 | Pentanal | 86 | C5H10O | 000110-62-3 | 47 |
| 3 | Cyclobutanol | 72 | C4H8O | 002919-23-5 | 33 |
| 4 | Butanedial | 86 | C4H6O2 | 000638-37-9 | 9 |
| 5 | Pentanal | 86 | C5H10O | 000110-62-3 | 9 |

**********

Peak Number 14 Hexanal Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.98 | 0.03 mg/kg | 3503610 | d5-CHLOROBENZENE* | 2337290 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 81 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 72 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 70 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |
| 5 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |

**********

Peak Number 15 2-Furancarboxaldehyde Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 12.19 | 0.00 mg/kg | 270214 | d5-CHLOROBENZENE* | 2337290 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 | 91 |
| 2 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 | 87 |
| 3 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 | 80 |
| 4 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 | 62 |
| 5 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 | 62 |

**********

Peak Number 16 Heptanal Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 13.05 | 0.00 mg/kg | 516825 | d5-CHLOROBENZENE* | 2337290 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptanal | 114 | C7H14O | 000111-71-7 | 91 |
| 2 | Heptanal | 114 | C7H14O | 000111-71-7 | 74 |
| 3 | Heptanal | 114 | C7H14O | 000111-71-7 | 70 |
| 4 | Heptanal | 114 | C7H14O | 000111-71-7 | 64 |
| 5 | Heptanal | 114 | C7H14O | 000111-71-7 | 47 |

**********

Peak Number 17 Cyclotetrasiloxane, octamet... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 13.84 | 0.00 mg/kg | 334045 | d4-1,4-DICHLOROBE | 2087330 | 15.15 |



| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 1 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 80 |
| 2 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 56 |
| 3 | Ethanethioic acid, S-[8-(diethyl... | 324 | C14H29O4PS | 000000-00-0 9 |
| 4 | Benzene, 1-phenyl-4-(2-cyano-2-p... | 281 | C21H15N | 027869-56-3 9 |
| 5 | 1,3,5,7-Tetraethylbicyclo[3.3.1]... | 310 | C8H22O5Si4 | 073420-21-0 9 |

**********

Peak Number 18 Octanal Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.95 | 0.00 mg/kg | 336784 | d4-1,4-DICHLOROBE | 2087330 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octanal | 128 | C8H16O | 000124-13-0 | 95 |
| 2 | Octanal | 128 | C8H16O | 000124-13-0 | 93 |
| 3 | Octanal | 128 | C8H16O | 000124-13-0 | 91 |
| 4 | Piperidine | 85 | C5H11N | 000110-89-4 | 50 |
| 5 | Piperidine, 3-methyl- | 99 | C6H13N | 000626-56-2 | 50 |

**********

Peak Number 19 1,4-Dichlorobenzene-d4 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 15.70 | 0.02 mg/kg | 1935700 | d4-1,4-DICHLOROBE | 2087330 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 150 | C6Cl2D4 | 003855-82-1 | 97 |
| 2 | Benzene-1,2,3,4-d4-, 5,6-dichloro- | 150 | C6Cl2D4 | 002199-69-1 | 94 |
| 3 | 2H-1-Benzopyran-3-ol, 3,4-dihydro- | 150 | C9H10O2 | 021834-60-6 | 9 |
| 4 | Benzaldehyde, 2-hydroxy-3-methoxy- | 152 | C8H8O3 | 000148-53-8 | 9 |
| 5 | Biphenylene | 152 | C12H8 | 000259-79-0 | 9 |

**********

Peak Number 20 3,3-Diethoxy-1,1,1,5,5,5-he... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 19.89 | 0.01 mg/kg | 995200 | d4-1,4-DICHLOROBE | 2087330 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,3-Diethoxy-1,1,1,5,5,5-hexamet... | 296 | C10H28O4Si3 | 000000-00-0 | 37 |
| 2 | Cyclotrisiloxane, hexamethyl- | 222 | C6H18O3Si3 | 000541-05-9 | 35 |
| 3 | 1,1,1,3,5,5,5-Heptamethyltrisilo... | 222 | C7H22O2Si3 | 001873-88-7 | 28 |
| 4 | 1,1,1,3,5,7,7,7-Octamethyltetras... | 282 | C8H26O3Si4 | 000000-00-0 | 25 |
| 5 | Pyrido[2,3-d]pyrimidine, 4-phenyl- | 207 | C13H9N3 | 028732-75-4 | 16 |

LS041025.M Mon Apr 14 13:52:01 2025

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568820.D Vial: 10
Acq On : 11 Apr 2025 12:09 Operator: RLD-DGS
Sample : 290584,1568820, Inst : VMS4
Misc : 5.27g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 12:30:31 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 980974 | 0.02 mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 719438 | 0.02 mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 314506 | 0.02 mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 263984 | 0.020 mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 56766 | 0.023 mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 115 % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 942394 | 0.019 mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 333710 | 0.022 mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 110 % | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | |
| 3) Chloromethan | 2.19 | 50 | 2310 | N.D. | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | |
| 5) Bromomethane | 2.85 | 94 | 3638 | N.D. | |
| 6) Chloroethane | 3.08 | 64 | 1309 | N.D. | |
| 7) dichloroflmethane | 3.34 | 67 | 1095 | N.D. | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | |
| 10) dichlorotfluoroethan | 3.88 | 67 | 15777 | 0.0012 mg/kg# | 25 |
| 11) propyleneoxide | 4.10 | 58 | 363222 | 0.2148 mg/kg | 95 |
| 12) Acrolein | 4.01 | 56 | 6714 | 0.0036 mg/kg# | 1 |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | |
| 15) Acetone | 4.24 | 43 | 832735 | 0.2173 mg/kg | 97 |
| 16) Iodomethane | 4.32 | 142 | 6260 | 0.0005 mg/kg# | 86 |
| 17) Carbon Dislf | 4.43 | 76 | 87646 | 0.0030 mg/kg | 99 |
| 18) allylchloride | 4.58 | 41 | 2298 | N.D. | |
| 19) methylacetate | 4.72 | 74 | 50247 | 0.0132 mg/kg | 99 |
| 20) Methylchlorid | 4.80 | 84 | 11808 | N.D. | |
| 21) Acrylonitrile | 5.20 | 53 | 1877 | N.D. | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | |
| 23) tbutylalcohol | 5.05 | 59 | 21453 | 0.0333 mg/kg | 77 |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | |
| 25) Hexane | 5.59 | 57 | 120933 | 0.0081 mg/kg | 99 |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | |
| 27) Vinylacetate | 5.79 | 43 | 3422 | N.D. | |
| 28) chloroprene | 5.85 | 53 | 1986 | N.D. | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | |
| 31) 22dichloropr | 6.44 | 77 | 2409 | N.D. | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | |
| 33) 2Butanone | 6.49 | 72 | 15170 | 0.0129 mg/kg | 96 |
| 34) propionitrile | 6.45 | 54 | 5751 | N.D. | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | |
| 36) methacrylonitrile | 6.70 | 67 | 1859 | N.D. | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | |
| 38) Tetrahydofur | 6.89 | 42 | 4809 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568820.D Vial: 10
Acq On : 11 Apr 2025 12:09 Operator: RLD-DGS
Sample : 290584,1568820, Inst : VMS4
Misc : 5.27g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 12:30:31 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.87 | 83 | 1812 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 7.15 | 56 | 7082 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 7.55 | 78 | 34692 | 0.0007 mg/kg | 92 |
| 47) | 12dichlorota | 7.55 | 62 | 1809 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 8.36 | 95 | 1692 | N.D. | |
| 50) | methylcyclohexane | 8.63 | 83 | 1906 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 8.87 | 69 | 1573 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 9.01 | 83 | 1163 | N.D. | |
| 57) | 2Nitropropane | 9.24 | 43 | 3262 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 9.76 | 43 | 2364 | N.D. | |
| 61) | Toluene | 10.00 | 92 | 42304 | 0.0013 mg/kg | 94 |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 10.38 | 69 | 1711 | N.D. | |
| 64) | 112Triclotha | 10.59 | 83 | 2887 | N.D. | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 10.86 | 43 | 10459 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 11.22 | 107 | 7205 | 0.0007 mg/kg# | 3 |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 11.84 | 91 | 2141 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 12.03 | 91 | 8600 | N.D. | |
| 75) | m p-Xylene | 12.20 | 106 | 11058 | N.D. | |
| 76) | o-Xylene | 12.74 | 106 | 5165 | N.D. | |
| 77) | Styrene | 12.75 | 104 | 1172 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 13.27 | 105 | 2048 | N.D. | |
| 81) | cyclohexanone | 13.39 | 55 | 4659 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 13.83 | 53 | 1164 | 0.0024 mg/kg# | 1 |
| 87) | n-Propylbenz | 13.86 | 91 | 3282 | N.D. | |
| 88) | 2chlorotolue | 13.98 | 91 | 10058 | N.D. | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 90) | 135Trimebenz | 14.12 | 105 | 2267 | N.D. | |
| 91) | tbutylbenzen | 14.66 | 119 | 1233 | N.D. | |
| 92) | 124Trimetben | 14.63 | 105 | 21062 | N.D. | |
| 93) | sbutylbenzen | 14.93 | 105 | 2528 | N.D. | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) | pIsopropylto | 15.13 | 119 | 38031 | N.D. | |
| 96) | 14dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 97) | 12dichlorobe | 15.71 | 146 | 1352 | N.D. | |
| 98) | nButylbenzen | 15.72 | 91 | 2019 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568820.D Vial: 10
Acq On : 11 Apr 2025 12:09 Operator: RLD-DGS
Sample : 290584,1568820, Inst : VMS4
Misc : 5.27g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 12:30:31 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) | Naphthalene | 18.25 | 128 | 268042 | 0.0114 | mg/kg | 100 |
| 104) | 123Trichlben | 18.56 | 180 | 1011 | N.D. | | |

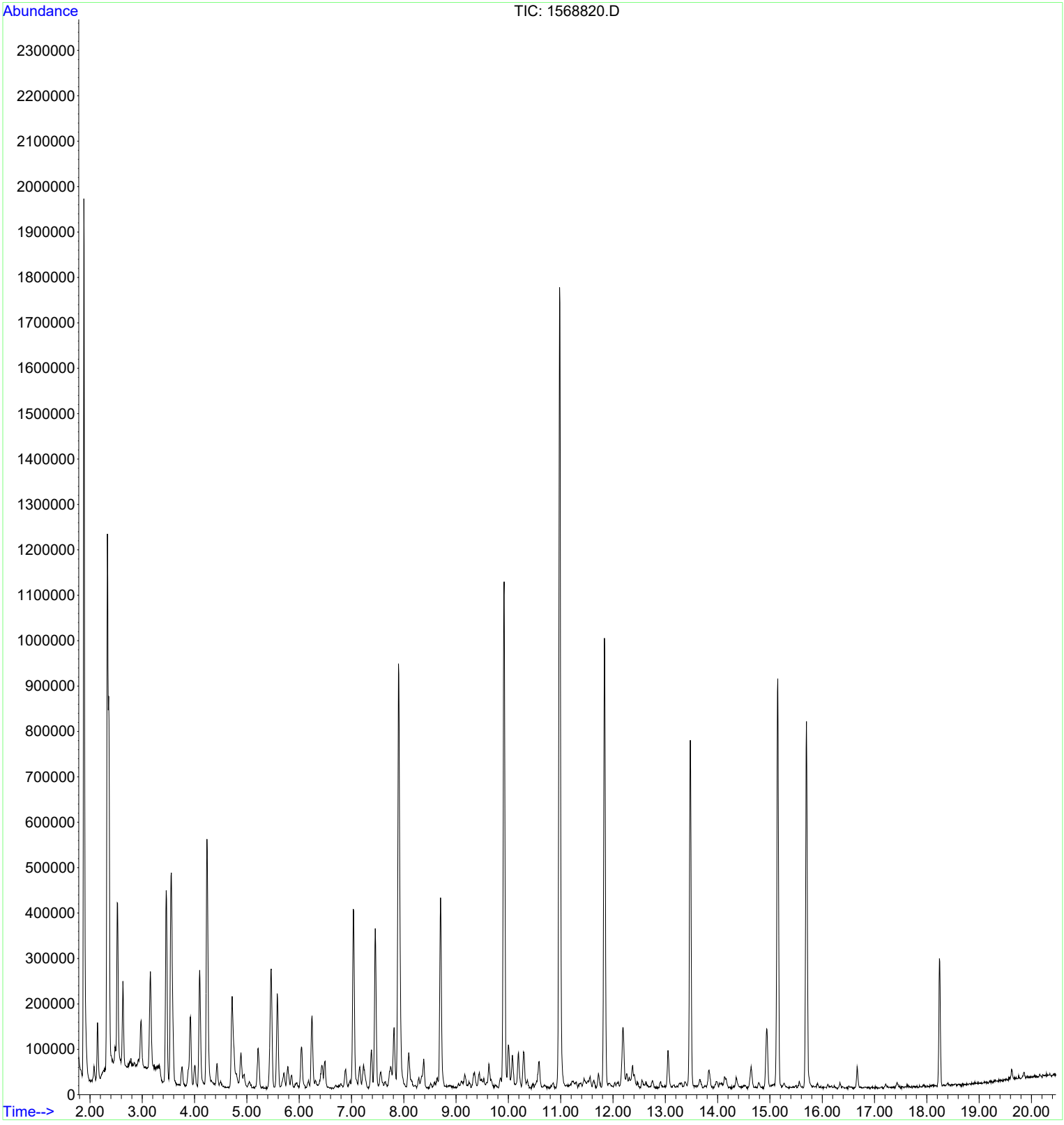
(#) = qualifier out of range (m) = manual integration

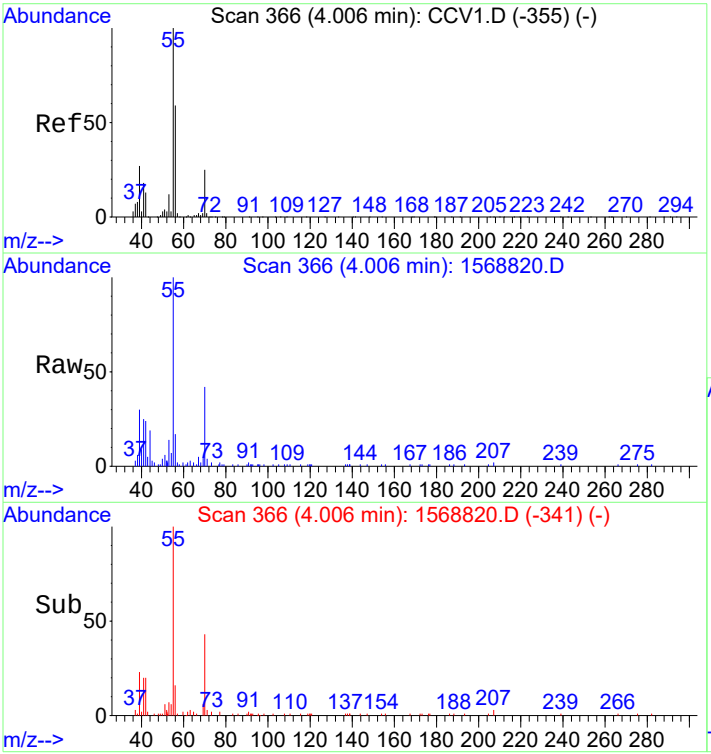
Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568820.D Vial: 10
Acq On : 11 Apr 2025 12:09 Operator: RLD-DGS
Sample : 290584,1568820, Inst : VMS4
Misc : 5.27g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 12:30:31 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

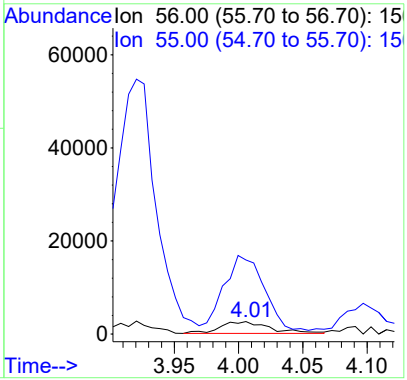




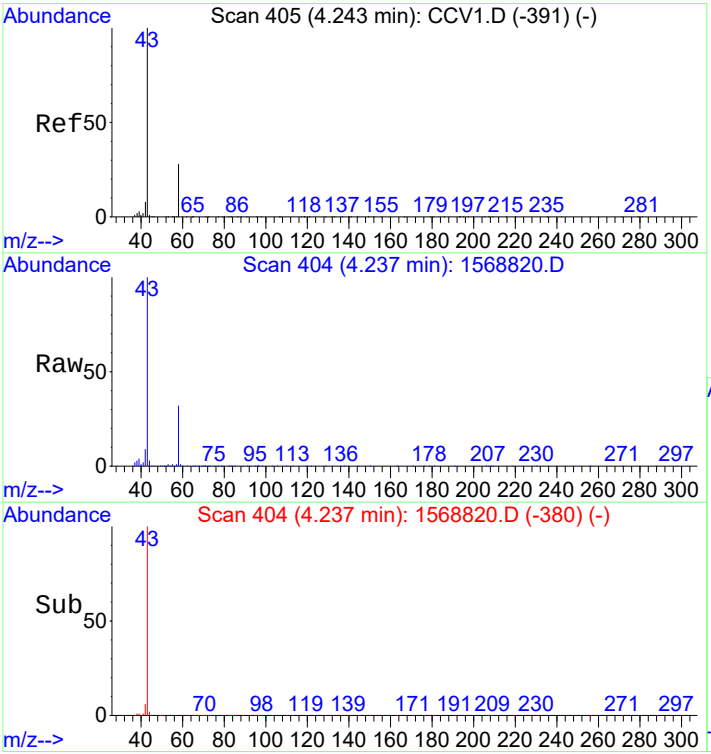

#12
Acrolein
Concen: 0.00 mg/kg
RT: 4.01 min Scan# 366
Delta R.T. 0.00 min
Lab File: 1568820.D
Acq: 11 Apr 2025 12:09

Tgt Ion: 56 Resp: 6714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 518.2 | 165.3 | 205.3# |



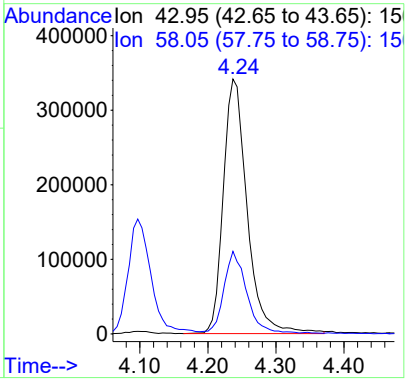

Negative Library Identification

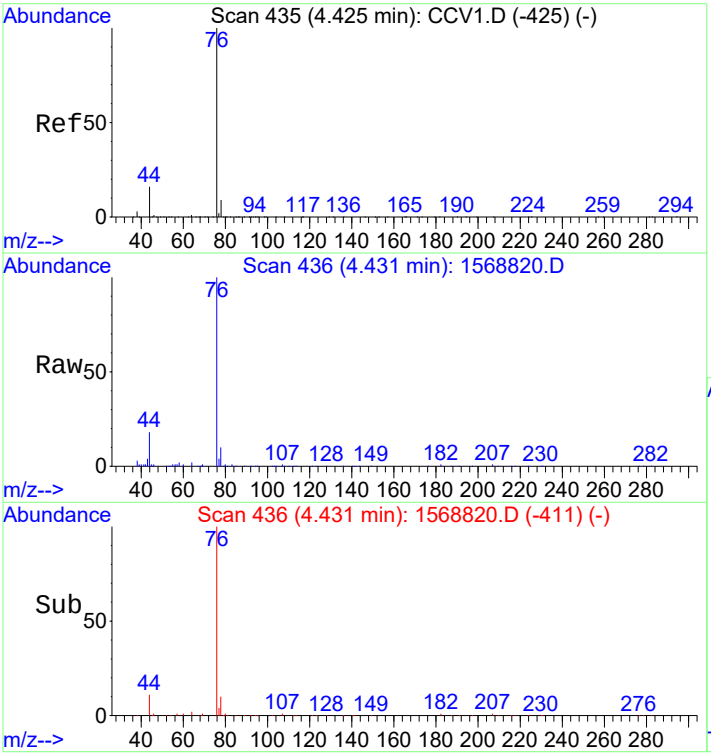



#15
Acetone
Concen: 0.22 mg/kg
RT: 4.24 min Scan# 404
Delta R.T. -0.01 min
Lab File: 1568820.D
Acq: 11 Apr 2025 12:09

Tgt Ion: 43 Resp: 832735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.4 | 8.8 | 48.8 |

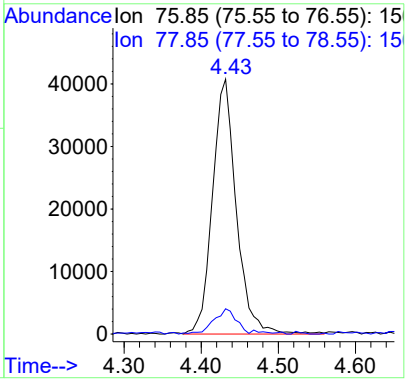


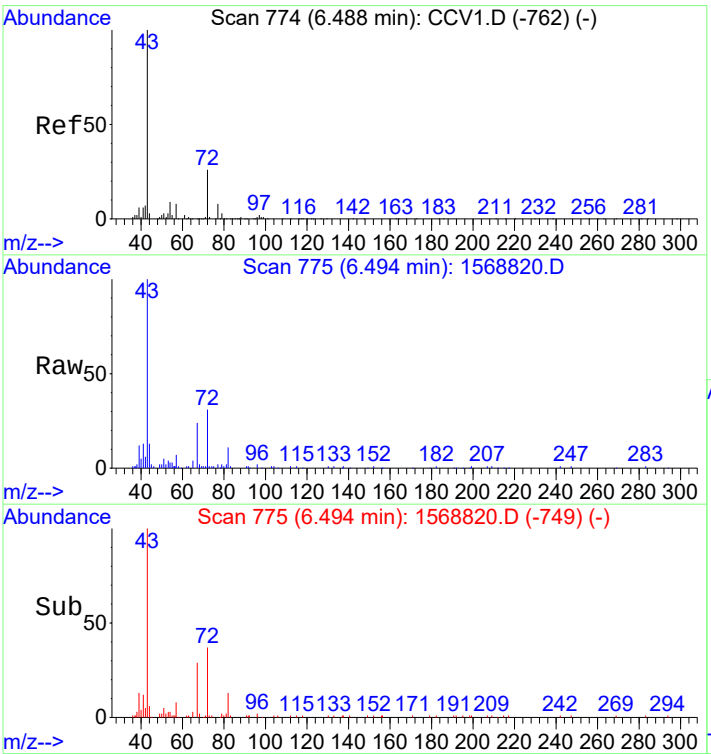



#17
Carbon Dislf
Concen: 0.00 mg/kg
RT: 4.43 min Scan# 436
Delta R.T. 0.00 min
Lab File: 1568820.D
Acq: 11 Apr 2025 12:09

Tgt Ion: 76 Resp: 87646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 0.0 | 29.0 |

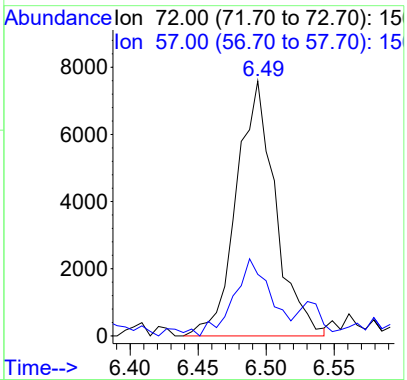


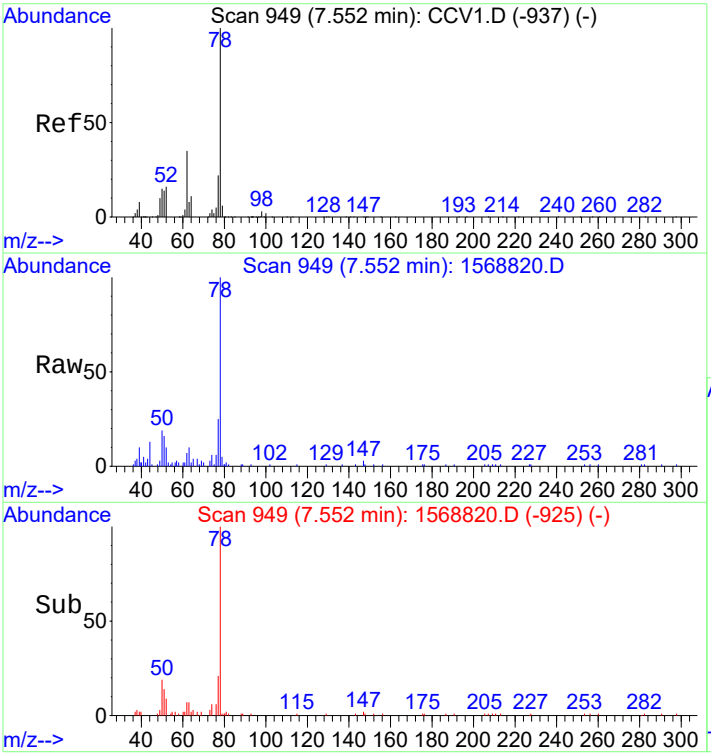




#33
2Butanone
Concen: 0.01 mg/kg
RT: 6.49 min Scan# 775
Delta R.T. 0.01 min
Lab File: 1568820.D
Acq: 11 Apr 2025 12:09

Tgt Ion: 72 Resp: 15170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 28.4 | 10.5 | 50.5 |

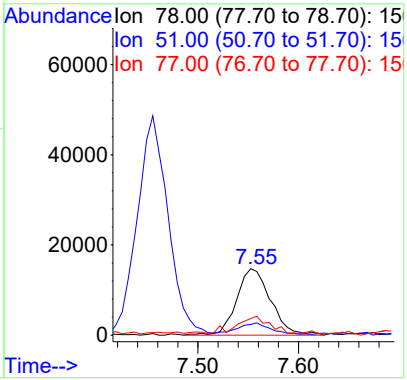


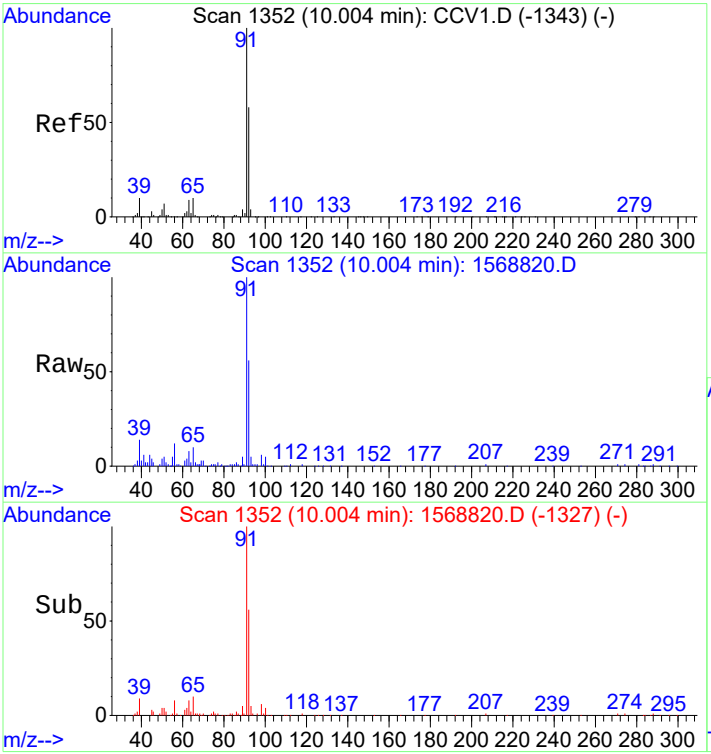



#46
Benzene
Concen: 0.00 mg/kg
RT: 7.55 min Scan# 949
Delta R.T. -0.01 min
Lab File: 1568820.D
Acq: 11 Apr 2025 12:09

Tgt Ion: 78 Resp: 34692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 51 | 16.1 | 0.3 | 40.3 |
| 77 | 21.6 | 4.9 | 44.9 |

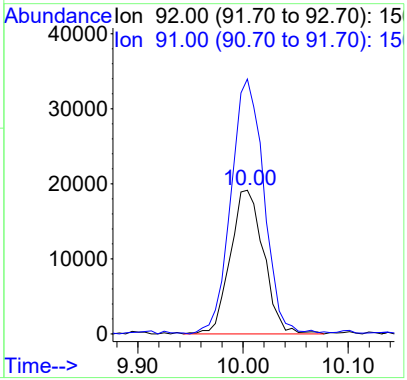


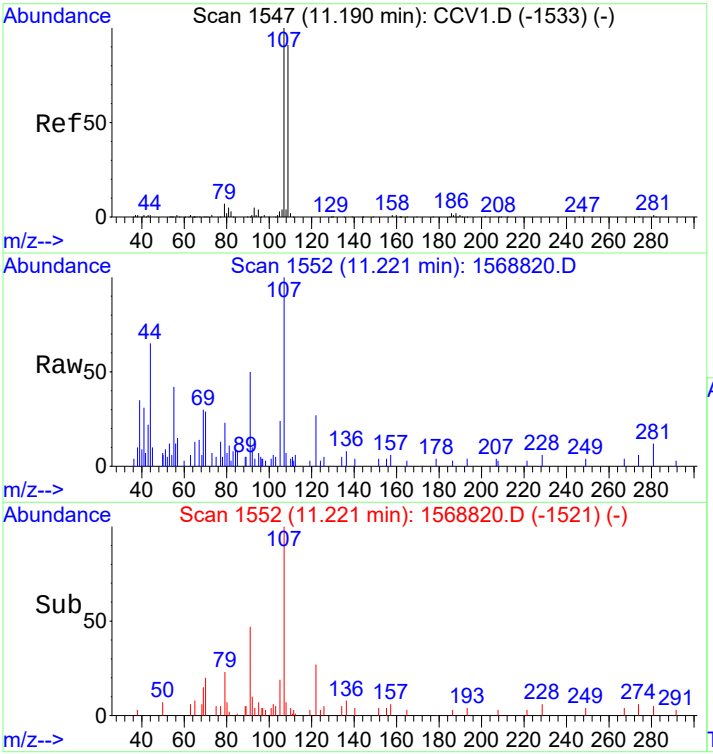




#61
Toluene
Concen: 0.00 mg/kg
RT: 10.00 min Scan# 1352
Delta R.T. 0.00 min
Lab File: 1568820.D
Acq: 11 Apr 2025 12:09

Tgt Ion: 92 Resp: 42304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.8 | 148.0 | 188.0 |

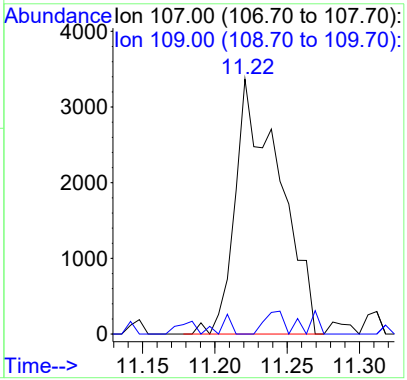




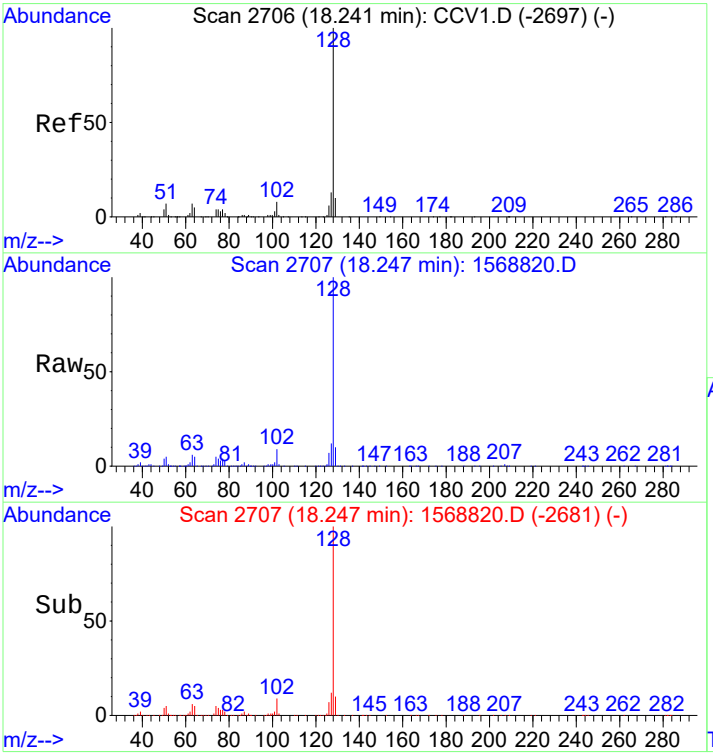

#70
12Dibrometha
Concen: 0.00 mg/kg
RT: 11.22 min Scan# 1552
Delta R.T. 0.04 min
Lab File: 1568820.D
Acq: 11 Apr 2025 12:09

Tgt Ion:107 Resp: 7205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 0.0 | 72.2 | 112.2# |



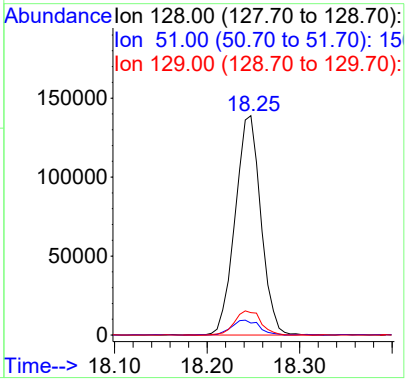

Negative Library Identification




#103
Naphthalene
Concen: 0.01 mg/kg
RT: 18.25 min Scan# 2707
Delta R.T. 0.01 min
Lab File: 1568820.D
Acq: 11 Apr 2025 12:09

Tgt Ion:128 Resp: 268042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 51 | 7.5 | 0.0 | 27.4 |
| 129 | 11.3 | 0.0 | 31.4 |



Library Search Compound Report

Data Path : C:\INSTARCH\DATA\APR1125\
Data File : 1568820.D
Acq On : 11 Apr 2025 12:09
Operator : RLD-DGS
Sample : 290584,1568820,
Misc : 5.27g, 15.0 ml DI H2O Purged + IS/SS
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method

TIC Library : C:\DATABASE\NBS75K.L
TIC Integration Parameters: VOC.P

**********
Peak Number 1 Propene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 1.88 | 0.02 mg/kg | 3051190 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propene | 42 | C3H6 | 000115-07-1 | 90 |
| 2 | Propene | 42 | C3H6 | 000115-07-1 | 42 |
| 3 | Cyclopropane | 42 | C3H6 | 000075-19-4 | 40 |
| 4 | Cyclopropane | 42 | C3H6 | 000075-19-4 | 9 |
| 5 | Cyclopropane | 42 | C3H6 | 000075-19-4 | 1 |

**********
Peak Number 2 1-Propene, 2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.33 | 0.03 mg/kg | 3547450 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 90 |
| 2 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 90 |
| 3 | 1-Butene | 56 | C4H8 | 000106-98-9 | 87 |
| 4 | 1-Butene | 56 | C4H8 | 000106-98-9 | 87 |
| 5 | 1-Butene | 56 | C4H8 | 000106-98-9 | 87 |

**********
Peak Number 3 Acetaldehyde Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.52 | 0.01 mg/kg | 874476 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 9 |
| 2 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 9 |
| 3 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 7 |
| 4 | Ethylene oxide | 44 | C2H4O | 000075-21-8 | 5 |
| 5 | Propane | 44 | C3H8 | 000074-98-6 | 4 |

**********
Peak Number 4 1-Butene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.63 | 0.01 mg/kg | 948132 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Butene | 56 | C4H8 | 000106-98-9 | 72 |
| 2 | 1-Butene | 56 | C4H8 | 000106-98-9 | 72 |
| 3 | 1-Butene | 56 | C4H8 | 000106-98-9 | 72 |
| 4 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 64 |
| 5 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 64 |

**********

Peak Number 5 1-Butene, 2-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.98 | 0.00 mg/kg | 434946 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Butene, 2-methyl- | 70 | C5H10 | 000563-46-2 | 64 |
| 2 | Cyclopropane, 1,2-dimethyl-, cis- | 70 | C5H10 | 000930-18-7 | 64 |
| 3 | 2-Butene, 2-methyl- | 70 | C5H10 | 000513-35-9 | 59 |
| 4 | 1-Butene, 3-methyl- | 70 | C5H10 | 000563-45-1 | 59 |
| 5 | 2-Butene, 2-methyl- | 70 | C5H10 | 000513-35-9 | 59 |

**********

Peak Number 6 Butane, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.15 | 0.01 mg/kg | 925235 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 87 |
| 2 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 80 |
| 3 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 50 |
| 4 | 3-Buten-1-ol | 72 | C4H8O | 000627-27-0 | 43 |
| 5 | Methane, isocyanato- | 57 | C2H3NO | 000624-83-9 | 9 |

**********

Peak Number 7 1-Pentene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.46 | 0.01 mg/kg | 911469 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 87 |
| 2 | Cyclopropane, ethyl- | 70 | C5H10 | 001191-96-4 | 87 |
| 3 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 68 |
| 4 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 64 |
| 5 | Cyclobutane, methyl- | 70 | C5H10 | 000598-61-8 | 64 |

**********

Peak Number 8 Pentane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.56 | 0.01 mg/kg | 1349550 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 86 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 72 |

| | | | | |
|---|---|---|---|---|
| 4 3-Buten-1-ol | 72 | C4H8O | 000627-27-0 | 37 |
| 5 Oxirane, ethyl- | 72 | C4H8O | 000106-88-7 | 37 |

**********

Peak Number 9 Cyclopropane, 1,2-dimethyl-... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.92 | 0.00 mg/kg | 398930 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|
| 1 Cyclopropane, 1,2-dimethyl-, cis- | 70 | C5H10 | 000930-18-7 | 87 |
| 2 2-Butene, 2-methyl- | 70 | C5H10 | 000513-35-9 | 80 |
| 3 2-Butene, 2-methyl- | 70 | C5H10 | 000513-35-9 | 80 |
| 4 Cyclopropane, 1,2-dimethyl-, trans- | 70 | C5H10 | 002402-06-4 | 80 |
| 5 1-Butene, 2-methyl- | 70 | C5H10 | 000563-46-2 | 80 |

**********

Peak Number 10 Propanal Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 4.10 | 0.00 mg/kg | 609824 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|
| 1 Propanal | 58 | C3H6O | 000123-38-6 | 56 |
| 2 Propanal | 58 | C3H6O | 000123-38-6 | 50 |
| 3 Propanal | 58 | C3H6O | 000123-38-6 | 40 |
| 4 Propanal | 58 | C3H6O | 000123-38-6 | 40 |
| 5 Trimethylene oxide | 58 | C3H6O | 000503-30-0 | 9 |

**********

Peak Number 11 Acetic acid, methyl ester Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 4.72 | 0.01 mg/kg | 715014 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|
| 1 Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 58 |
| 2 Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 58 |
| 3 Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 53 |
| 4 Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 42 |
| 5 1-Propanol, 2-methyl- | 74 | C4H10O | 000078-83-1 | 9 |

**********

Peak Number 12 1-Hexene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 5.47 | 0.01 mg/kg | 731010 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|
| 1 1-Hexene | 84 | C6H12 | 000592-41-6 | 87 |
| 2 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 87 |
| 3 1-Hexene | 84 | C6H12 | 000592-41-6 | 81 |
| 4 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 80 |
| 5 1-Hexene | 84 | C6H12 | 000592-41-6 | 74 |

**********



Peak Number 13 Hexane Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 5.58 | 0.00 mg/kg | 462347 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane | 86 | C6H14 | 000110-54-3 | 90 |
| 2 | Hexane | 86 | C6H14 | 000110-54-3 | 87 |
| 3 | Hexane | 86 | C6H14 | 000110-54-3 | 59 |
| 4 | 1-Butanol | 74 | C4H10O | 000071-36-3 | 50 |
| 5 | Hexane | 86 | C6H14 | 000110-54-3 | 45 |

**********

Peak Number 14 Butanal Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 6.24 | 0.00 mg/kg | 380817 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal | 72 | C4H8O | 000123-72-8 | 91 |
| 2 | Butanal | 72 | C4H8O | 000123-72-8 | 72 |
| 3 | Butanal | 72 | C4H8O | 000123-72-8 | 64 |
| 4 | Butanal | 72 | C4H8O | 000123-72-8 | 64 |
| 5 | Butanal | 72 | C4H8O | 000123-72-8 | 64 |

**********

Peak Number 15 Pentanal Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 8.70 | 0.01 mg/kg | 997646 | FLUOROBENZENE**IS | 2479560 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanal | 86 | C5H10O | 000110-62-3 | 90 |
| 2 | Pentanal | 86 | C5H10O | 000110-62-3 | 78 |
| 3 | Pentanal | 86 | C5H10O | 000110-62-3 | 64 |
| 4 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 33 |
| 5 | Cyclobutanol | 72 | C4H8O | 002919-23-5 | 28 |

**********

Peak Number 16 Hexanal Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.98 | 0.04 mg/kg | 4071030 | d5-CHLOROBENZENE* | 2171840 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 91 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 90 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 78 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 72 |
| 5 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |

**********

Peak Number 17 2-Furancarboxaldehyde Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 12.19 | 0.00 mg/kg | 471681 | d5-CHLOROBENZENE* | 2171840 | 11.84 |



| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 1 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 94 |
| 2 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 91 |
| 3 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 91 |
| 4 | 3-Furaldehyde | 96 | C5H4O2 | 000498-60-2 91 |
| 5 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 91 |

**********

Peak Number 18 3,5-Dimethyl-1-butylpyrazole Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.94 | 0.00 mg/kg | 411638 | d4-1,4-DICHLOROBE | 1995490 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,5-Dimethyl-1-butylpyrazole | 152 | C9H16N2 | 002655-37-0 | 50 |
| 2 | Ethanone, 1-(1,4-dimethyl-3-cycl... | 152 | C10H16O | 043219-68-7 | 49 |
| 3 | 2-Cyclohexen-1-ol, 2-methyl-5-(1... | 152 | C10H16O | 001197-07-5 | 47 |
| 4 | Ethanone, 1-(1,4-dimethyl-3-cycl... | 152 | C10H16O | 043219-68-7 | 43 |
| 5 | 2-Cyclohexen-1-ol, 2-methyl-5-(1... | 152 | C10H16O | 001197-07-5 | 43 |

**********

Peak Number 19 1,4-Dichlorobenzene-d4 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 15.70 | 0.02 mg/kg | 1803370 | d4-1,4-DICHLOROBE | 1995490 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 150 | C6Cl2D4 | 003855-82-1 | 95 |
| 2 | Benzene-1,2,3,4-d4-, 5,6-dichloro- | 150 | C6Cl2D4 | 002199-69-1 | 94 |
| 3 | Benzaldehyde, 2-hydroxy-3-methoxy- | 152 | C8H8O3 | 000148-53-8 | 35 |
| 4 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 10 |
| 5 | 2H-1-Benzopyran-3-ol, 3,4-dihydro- | 150 | C9H10O2 | 021834-60-6 | 9 |

**********

Peak Number 20 Naphthalene, 1-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 19.62 | 0.01 mg/kg | 1034290 | d4-1,4-DICHLOROBE | 1995490 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 62 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 62 |
| 3 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 58 |
| 4 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 58 |
| 5 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 58 |

LS041025.M Mon Apr 14 13:51:09 2025

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568846.D Vial: 12
Acq On : 11 Apr 2025 13:08 Operator: RLD-DGS
Sample : 290584,1568846, Inst : VMS4
Misc : 4.94g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 13:28:44 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1040295 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 753601 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 298895 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 273987 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 56919 | 0.021 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 105 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 995398 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 338186 | 0.023 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 115 % | | | |

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 3376 | N.D. | | |
| 4) VinylChlorid | 2.36 | 62 | 3839 | N.D. | | |
| 5) Bromomethane | 2.84 | 94 | 3367 | N.D. | | |
| 6) Chloroethane | 2.94 | 64 | 12156 | 0.0012 | mg/kg# | 42 |
| 7) dichloroflmethane | 3.33 | 67 | 2314 | N.D. | | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 3.87 | 67 | 3290 | N.D. | | |
| 11) propyleneoxide | 4.10 | 58 | 70328 | 0.0392 | mg/kg | 98 |
| 12) Acrolein | 4.01 | 56 | 3674 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.24 | 43 | 487088 | 0.1198 | mg/kg | 98 |
| 16) Iodomethane | 4.34 | 142 | 4956 | 0.0004 | mg/kg# | 85 |
| 17) Carbon Dislf | 4.42 | 76 | 33742 | 0.0011 | mg/kg | 92 |
| 18) allylchloride | 4.71 | 41 | 7990 | N.D. | | |
| 19) methylacetate | 4.71 | 74 | 122175 | 0.0303 | mg/kg | 95 |
| 20) Methylchlorid | 4.80 | 84 | 10937 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 5.18 | 96 | 8409 | 0.0006 | mg/kg | 92 |
| 23) tbutylalcohol | 5.05 | 59 | 30278 | 0.0443 | mg/kg | 97 |
| 24) MtBE | 5.24 | 73 | 1342 | N.D. | | |
| 25) Hexane | 5.58 | 57 | 16205 | 0.0010 | mg/kg | 90 |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 6.45 | 59 | 5275 | 0.0006 | mg/kg# | 39 |
| 31) 22dichloropr | 6.42 | 77 | 2170 | N.D. | | |
| 32) c12dichlorte | 6.45 | 96 | 202458 | 0.0137 | mg/kg | 89 |
| 33) 2Butanone | 6.49 | 72 | 29858 | 0.0240 | mg/kg | 93 |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.88 | 42 | 3582 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568846.D Vial: 12
Acq On : 11 Apr 2025 13:08 Operator: RLD-DGS
Sample : 290584,1568846, Inst : VMS4
Misc : 4.94g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 13:28:44 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) Chloroform | 6.86 | 83 | 1407 | N.D. | | |
| 40) 111trichlota | 0.00 | 97 | 0 | N.D. | | |
| 42) Cyclohexane | 7.20 | 56 | 4780 | N.D. | | |
| 43) Carbtetraclo | 0.00 | 119 | 0 | N.D. | | |
| 44) 11dicloprope | 0.00 | 110 | 0 | N.D. | | |
| 46) Benzene | 7.55 | 78 | 83842 | 0.0016 | mg/kg | 99 |
| 47) 12dichlorota | 7.56 | 62 | 1665 | N.D. | | |
| 48) TAME | 0.00 | 73 | 0 | N.D. | | |
| 49) trichloroete | 8.37 | 95 | 591931 | 0.0406 | mg/kg | 100 |
| 50) methylcyclohexane | 8.64 | 83 | 3929 | N.D. | | |
| 51) 12dicloropra | 0.00 | 63 | 0 | N.D. | | |
| 52) 23dicl1propene | 0.00 | 75 | 0 | N.D. | | |
| 53) Dibromometha | 0.00 | 93 | 0 | N.D. | | |
| 54) methylmethacrylate | 8.88 | 69 | 1584 | N.D. | | |
| 55) 14dioxane | 0.00 | 88 | 0 | N.D. | | |
| 56) Bromodiclrma | 0.00 | 83 | 0 | N.D. | | |
| 57) 2Nitropropane | 9.22 | 43 | 1361 | N.D. | | |
| 58) c13dicloproe | 0.00 | 75 | 0 | N.D. | | |
| 59) 4Meth2Pentan | 9.76 | 43 | 8067 | N.D. | | |
| 61) Toluene | 10.00 | 92 | 97001 | 0.0028 | mg/kg | 99 |
| 62) t13Dicloprop | 0.00 | 75 | 0 | N.D. | | |
| 63) ethylmethacrylate | 10.31 | 69 | 2741 | N.D. | | |
| 64) 112Triclotha | 0.00 | 83 | 0 | N.D. | | |
| 65) Tetrachlorte | 10.75 | 166 | 1377150 | 0.0908 | mg/kg | 99 |
| 66) 13Diclorpropa | 0.00 | 76 | 0 | N.D. | | |
| 68) 2Hexanone | 10.85 | 43 | 15014 | N.D. | | |
| 69) Clorodibrmta | 0.00 | 129 | 0 | N.D. | | |
| 70) 12Dibrometha | 0.00 | 107 | 0 | N.D. | | |
| 71) Chlorobenzen | 0.00 | 112 | 0 | N.D. | | |
| 72) 1Clhexane | 11.84 | 91 | 2764 | N.D. | | |
| 73) 1112Tetclota | 0.00 | 131 | 0 | N.D. | | |
| 74) Ethylbenzene | 12.04 | 91 | 23519 | 0.0004 | mg/kg | 98 |
| 75) m p-Xylene | 12.20 | 106 | 49178 | 0.0022 | mg/kg | 95 |
| 76) o-Xylene | 12.75 | 106 | 29222 | 0.0014 | mg/kg | 89 |
| 77) Styrene | 12.75 | 104 | 2716 | N.D. | | |
| 78) Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 79) Isopropylben | 13.28 | 105 | 3032 | N.D. | | |
| 81) cyclohexanone | 13.38 | 55 | 1265 | N.D. | | |
| 83) Bromobenzene | 0.00 | 156 | 0 | N.D. | | |
| 84) 1122Tetrclta | 0.00 | 83 | 0 | N.D. | | |
| 85) 123Triclproa | 0.00 | 75 | 0 | N.D. | | |
| 86) 14dichloro2butene | 0.00 | 53 | 0 | N.D. | | |
| 87) n-Propylbenz | 13.86 | 91 | 7017 | N.D. | | |
| 88) 2chlorotolue | 13.98 | 91 | 6814 | N.D. | | |
| 89) 4chlorotolue | 14.13 | 91 | 1233 | N.D. | | |
| 90) 135Trimebenz | 14.12 | 105 | 5759 | N.D. | | |
| 91) tbutylbenzen | 14.67 | 119 | 2514 | N.D. | | |
| 92) 124Trimetben | 14.63 | 105 | 47768 | 0.0013 | mg/kg# | 53 |
| 93) sbutylbenzen | 14.91 | 105 | 1450 | N.D. | | |
| 94) 13Diclorbenz | 0.00 | 146 | 0 | N.D. | | |
| 95) pIsopropylto | 15.14 | 119 | 2218 | N.D. | | |
| 96) 14dichlorobe | 0.00 | 146 | 0 | N.D. | | |
| 97) 12dichlorobe | 0.00 | 146 | 0 | N.D. | | |
| 98) nButylbenzen | 15.71 | 91 | 3716 | N.D. | | |
| 99) 12dibromo3cl | 0.00 | 157 | 0 | N.D. | | |
| 100) 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 101) 124Trichlobe | 0.00 | 180 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568846.D Vial: 12
Acq On : 11 Apr 2025 13:08 Operator: RLD-DGS
Sample : 290584,1568846, Inst : VMS4
Misc : 4.94g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 13:28:44 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | |
| 103) Naphthalene | 18.24 | 128 | 15161 | N.D. | |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | |

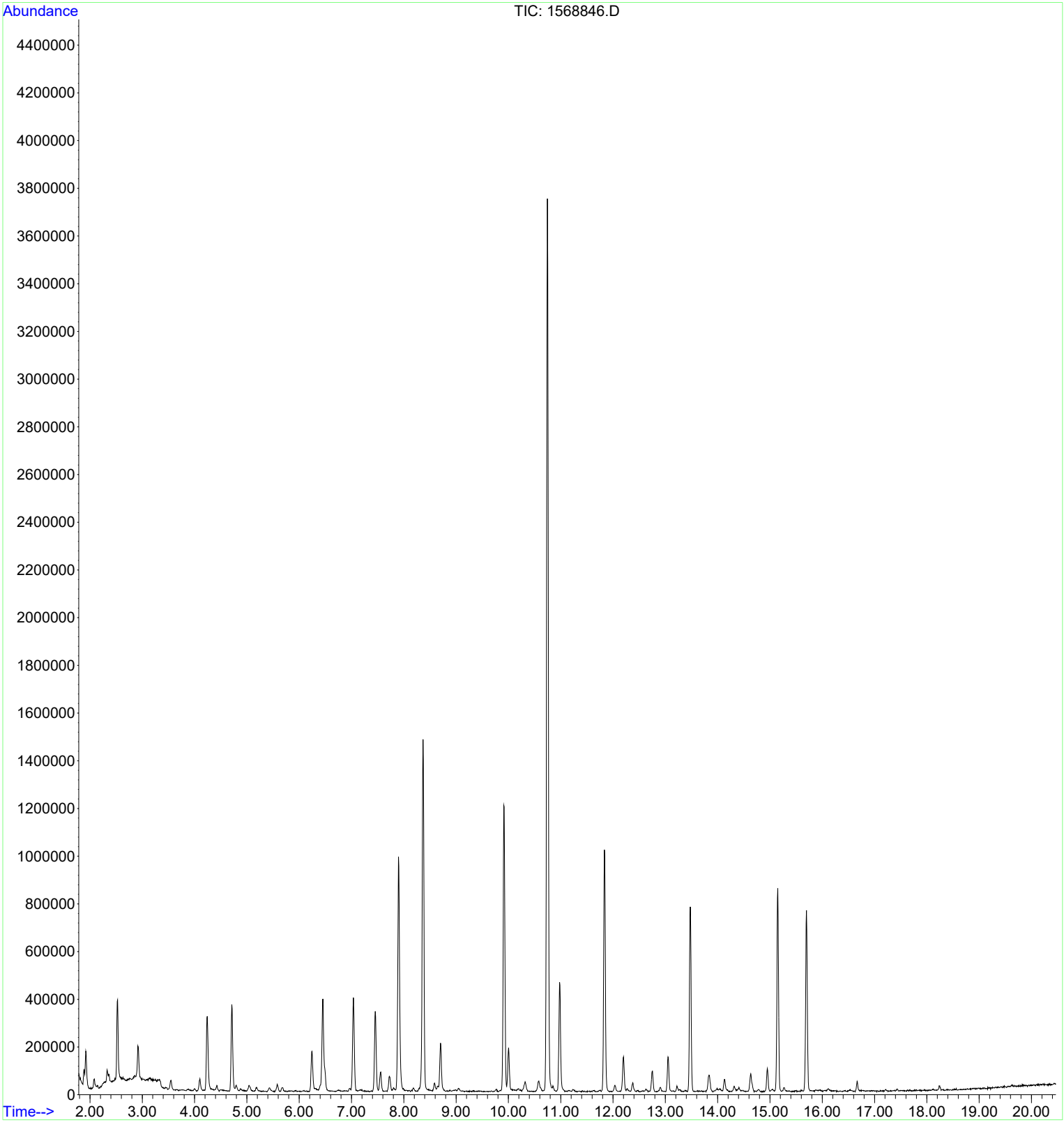
(#) = qualifier out of range (m) = manual integration

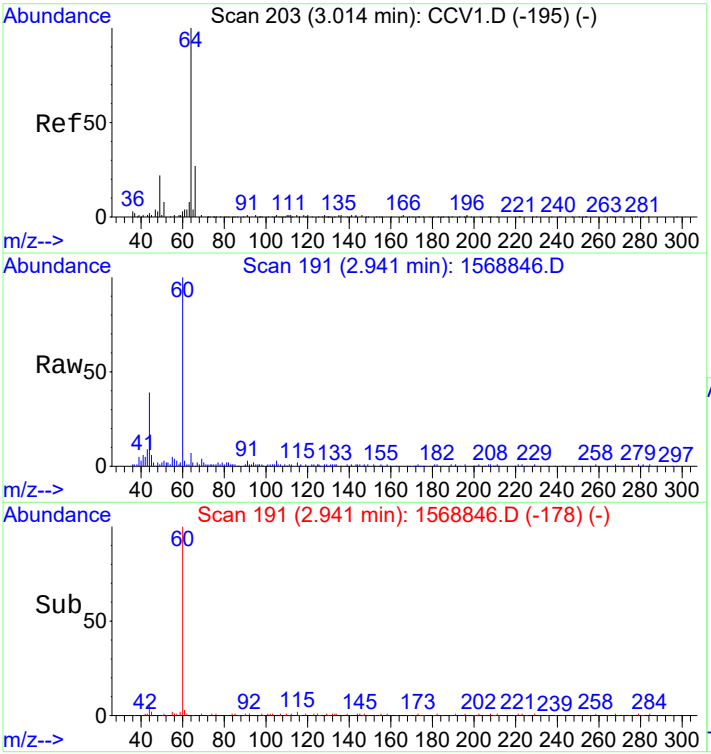
Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568846.D Vial: 12
Acq On : 11 Apr 2025 13:08 Operator: RLD-DGS
Sample : 290584,1568846, Inst : VMS4
Misc : 4.94g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 13:28:44 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

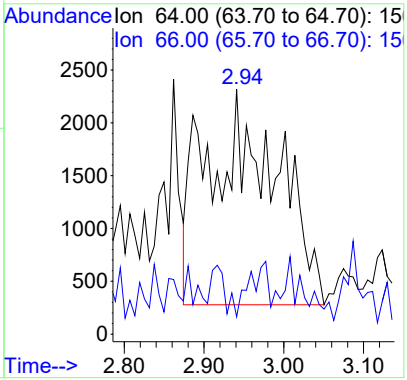




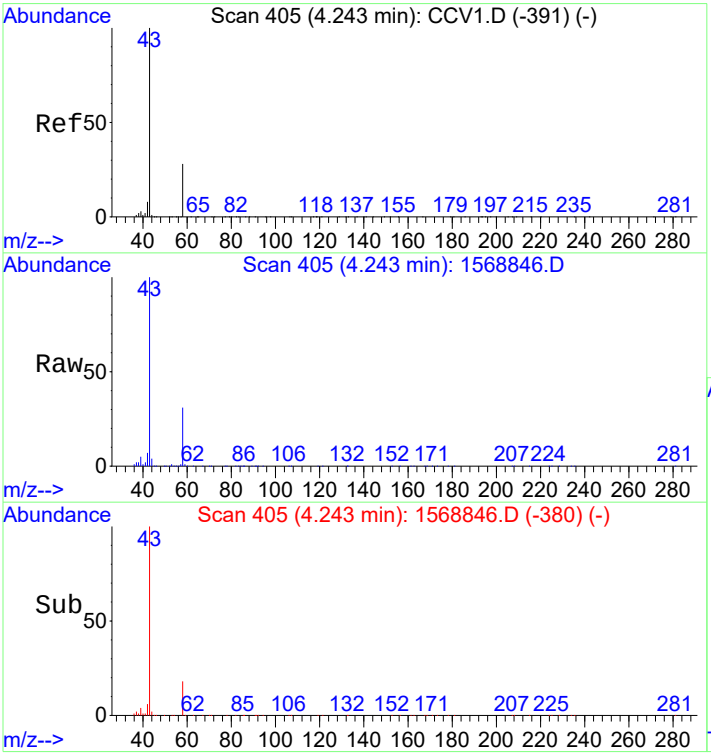

#6
Chloroethane
Concen: 0.00 mg/kg
RT: 2.94 min Scan# 191
Delta R.T. -0.07 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion: 64 Resp: 12156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 13.1 | 53.1# |



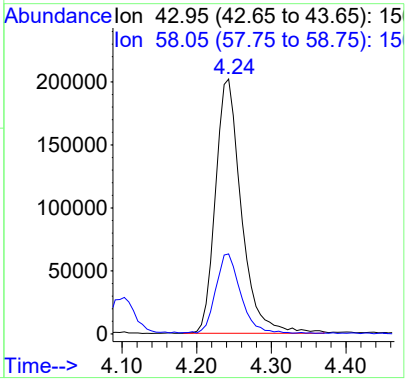

Negative Library Identification

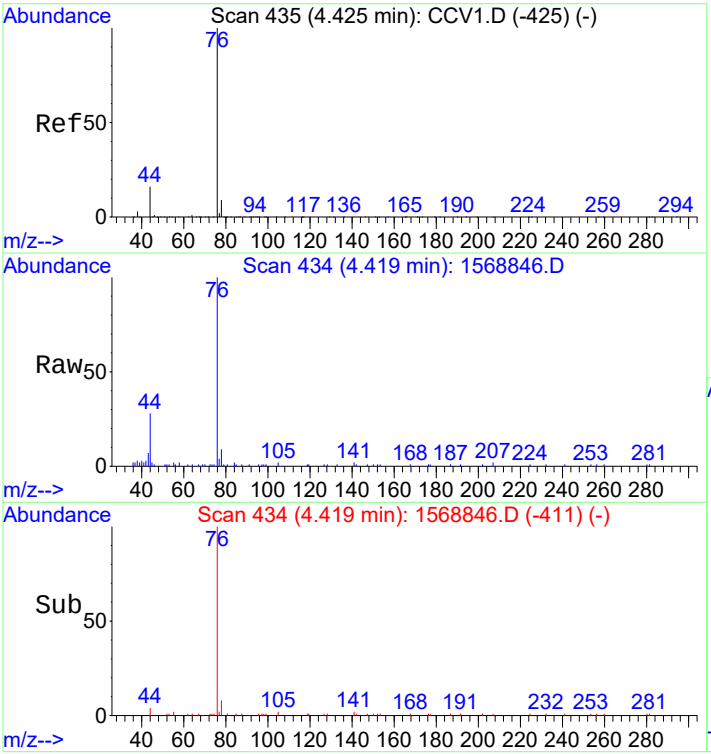



#15
Acetone
Concen: 0.12 mg/kg
RT: 4.24 min Scan# 405
Delta R.T. 0.00 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion: 43 Resp: 487088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.7 | 8.8 | 48.8 |

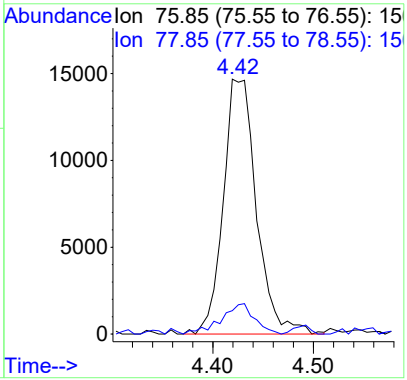


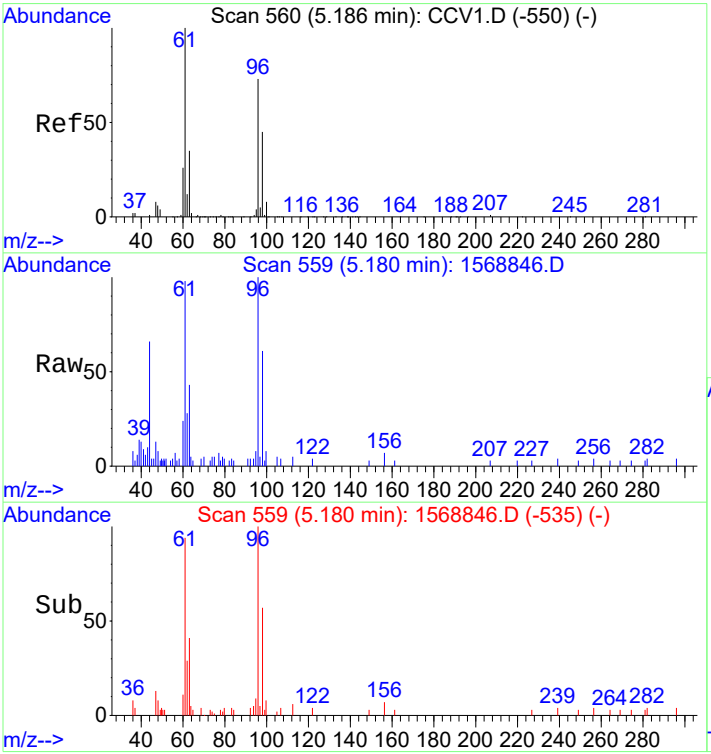



#17
Carbon Dislf
Concen: 0.00 mg/kg
RT: 4.42 min Scan# 434
Delta R.T. -0.01 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion: 76 Resp: 33742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 11.9 | 0.0 | 29.0 |

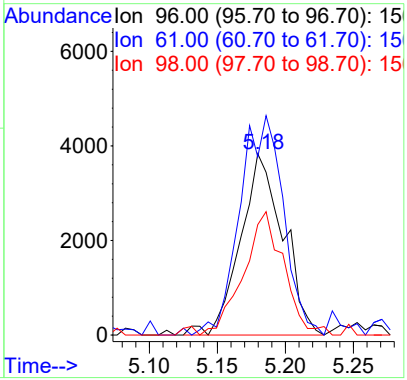


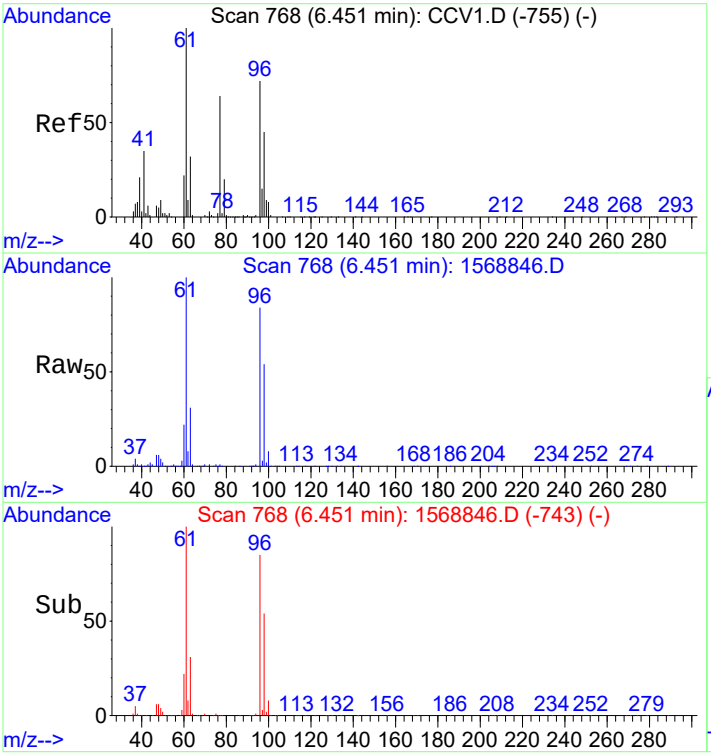




#22
t12dichlorte
Concen: 0.00 mg/kg
RT: 5.18 min Scan# 559
Delta R.T. -0.01 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion: 96 Resp: 8409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 123.5 | 114.5 | 154.5 |
| 98 | 63.9 | 40.5 | 80.5 |

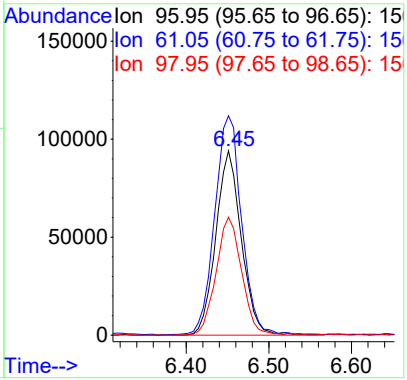


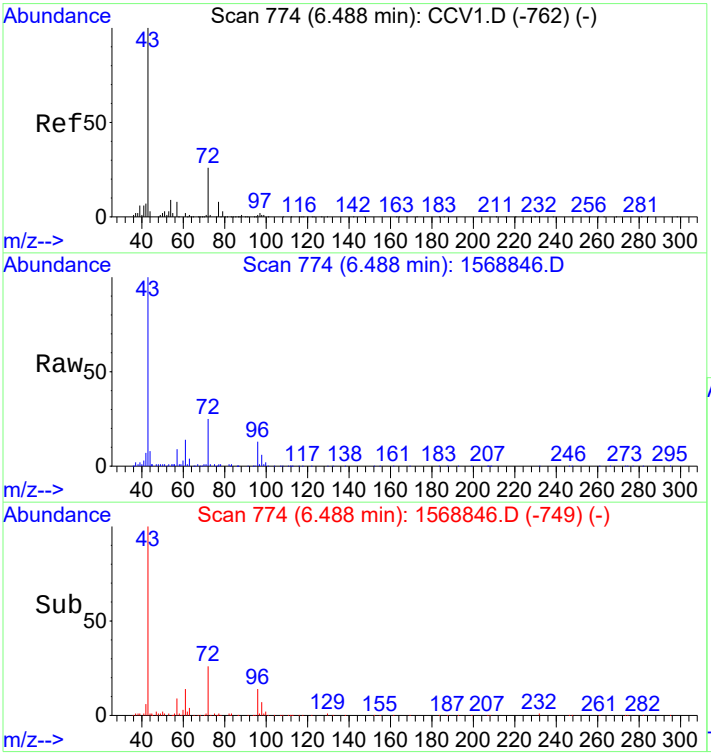



#32
c12dichlorte
Concen: 0.01 mg/kg
RT: 6.45 min Scan# 768
Delta R.T. 0.00 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion: 96 Resp: 202458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.4 | 123.9 | 163.9 |
| 98 | 63.8 | 44.6 | 84.6 |

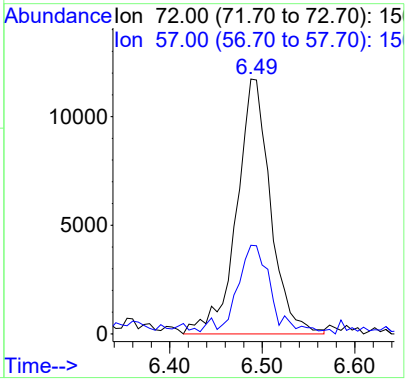


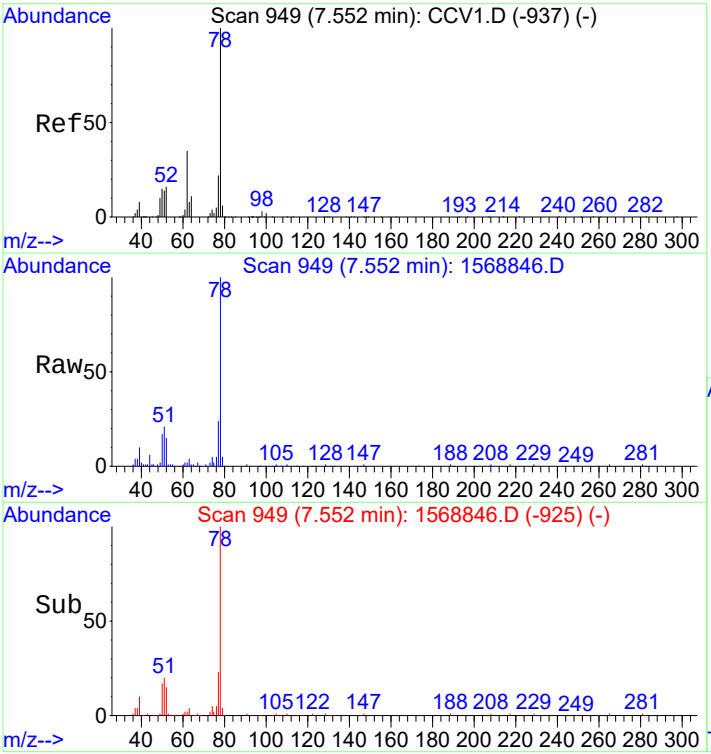




#33
2Butanone
Concen: 0.02 mg/kg
RT: 6.49 min Scan# 774
Delta R.T. 0.00 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion: 72 Resp: 29858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 34.1 | 10.5 | 50.5 |

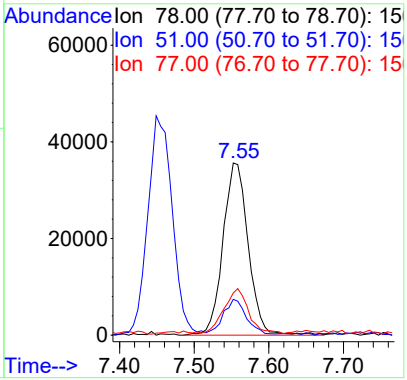


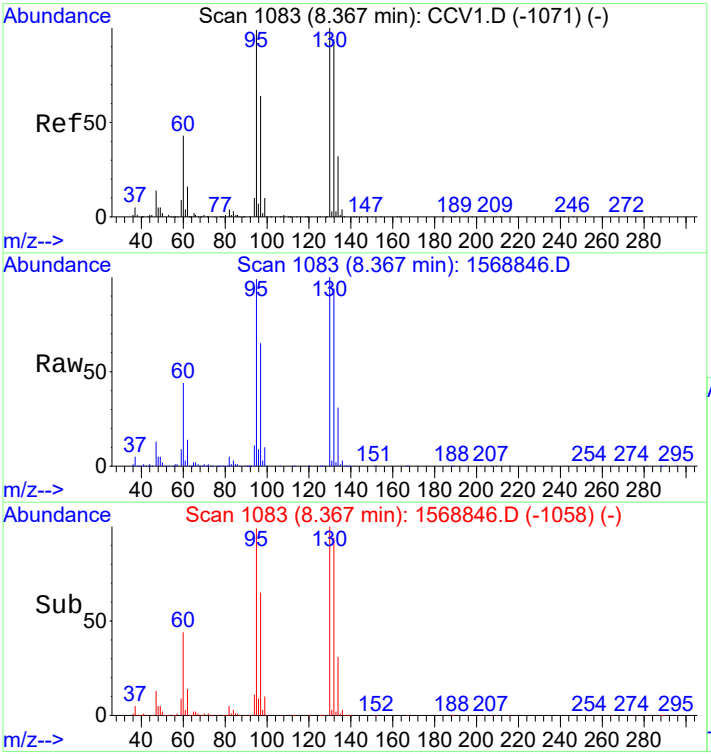



#46
Benzene
Concen: 0.00 mg/kg
RT: 7.55 min Scan# 949
Delta R.T. -0.01 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion: 78 Resp: 83842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 51 | 20.5 | 0.3 | 40.3 |
| 77 | 25.3 | 4.9 | 44.9 |

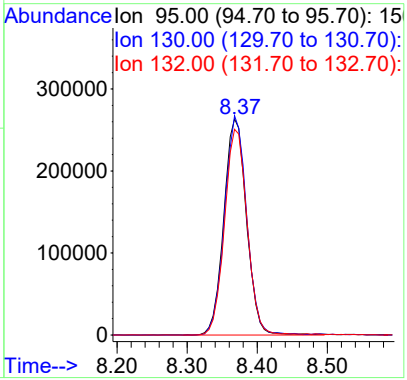


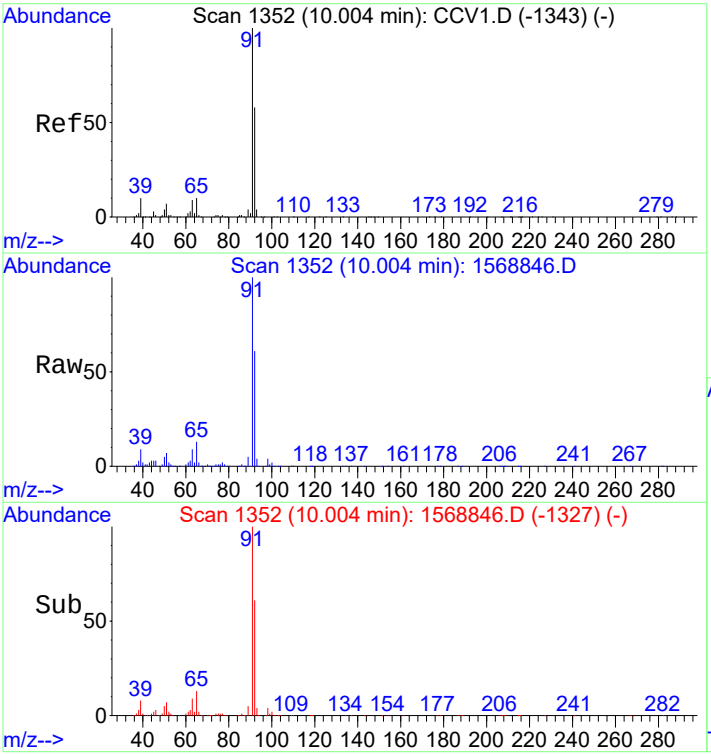




#49
trichloroete
Concen: 0.04 mg/kg
RT: 8.37 min Scan# 1083
Delta R.T. 0.00 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion: 95 Resp: 591931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 99.1 | 78.4 | 118.4 |
| 132 | 95.1 | 74.9 | 114.9 |

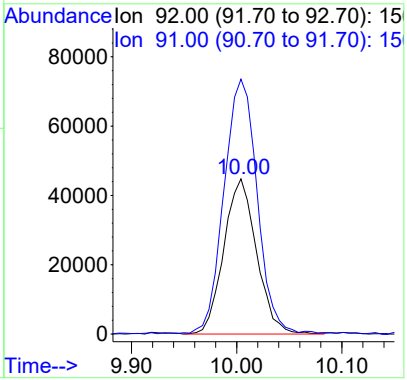


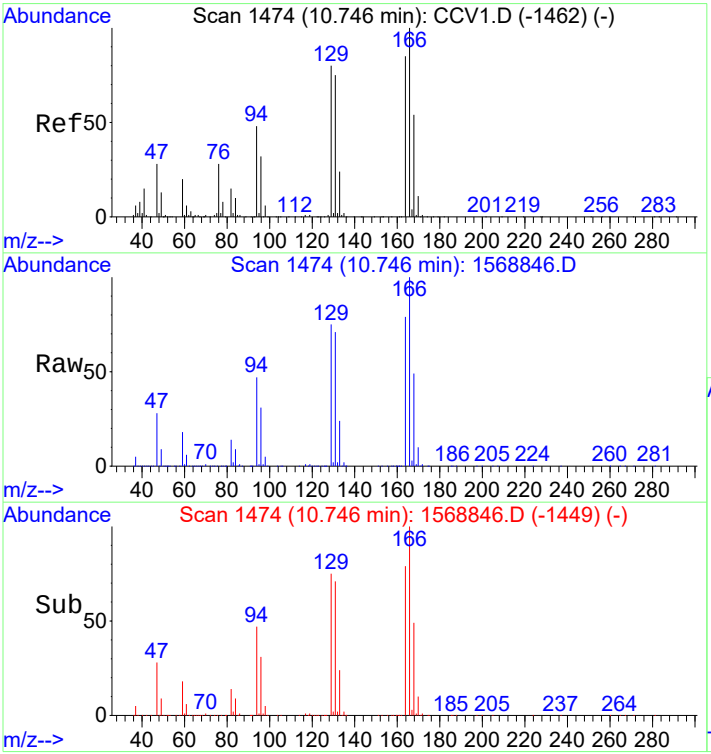



#61
Toluene
Concen: 0.00 mg/kg
RT: 10.00 min Scan# 1352
Delta R.T. 0.00 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion: 92 Resp: 97001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 166.2 | 148.0 | 188.0 |

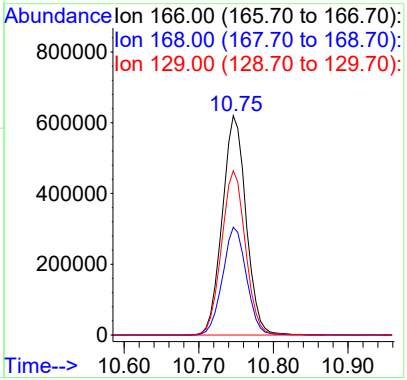


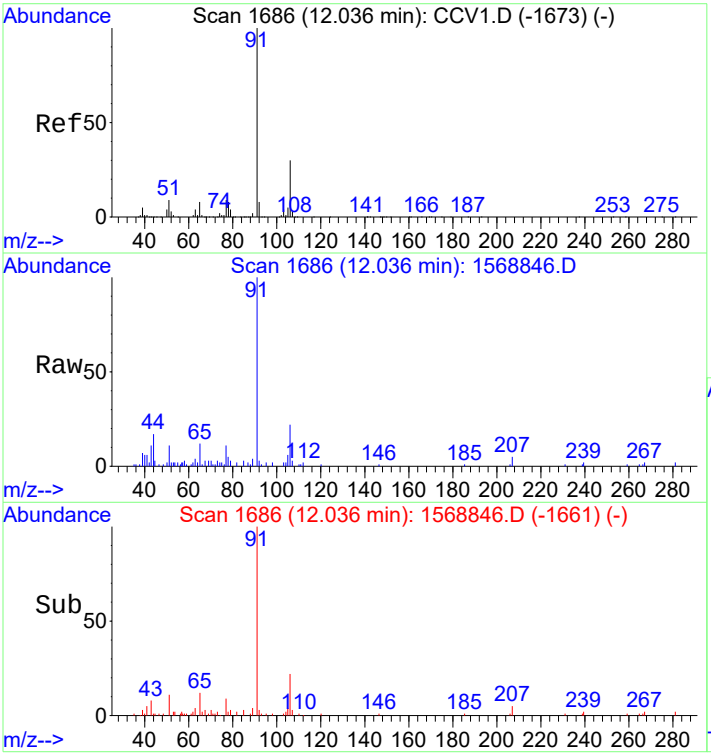




#65
Tetrachlorte
Concen: 0.09 mg/kg
RT: 10.75 min Scan# 1474
Delta R.T. 0.00 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion:166 Resp: 1377150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 49.2 | 29.9 | 69.9 |
| 129 | 75.0 | 54.5 | 94.5 |

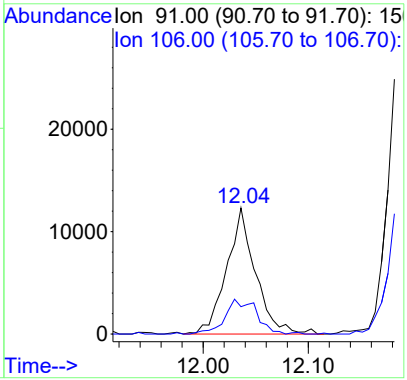


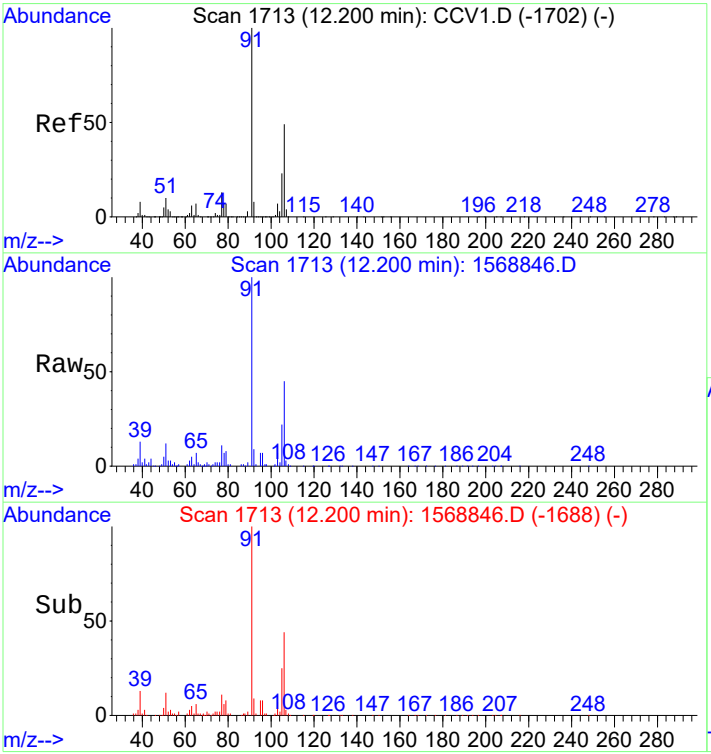



#74
Ethylbenzene
Concen: 0.00 mg/kg
RT: 12.04 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion: 91 Resp: 23519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.9 | 11.0 | 51.0 |

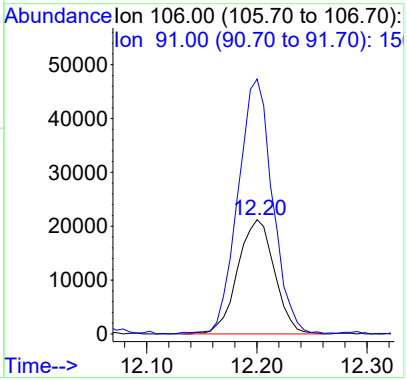


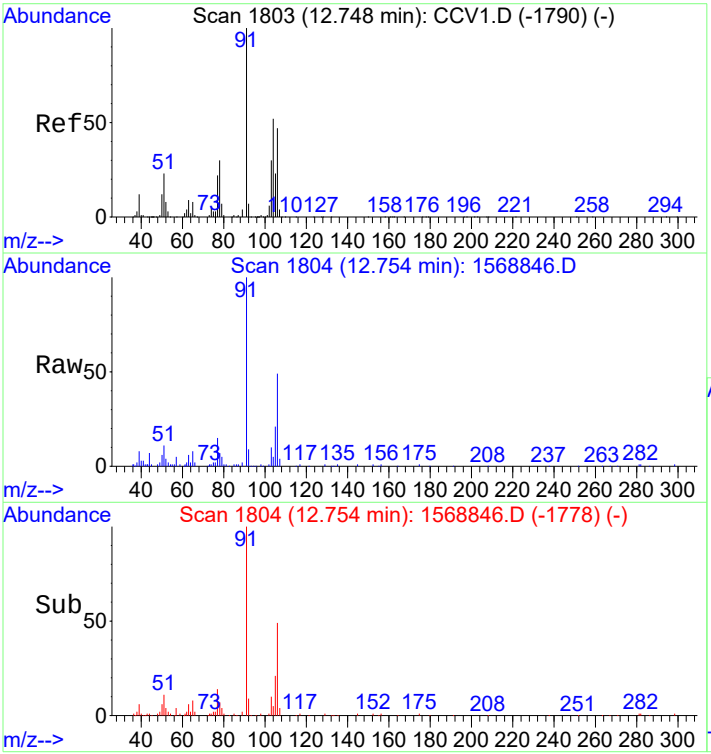




#75
m p-Xylene
Concen: 0.00 mg/kg
RT: 12.20 min Scan# 1713
Delta R.T. 0.00 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion:106 Resp: 49178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 211.6 | 183.2 | 223.2 |

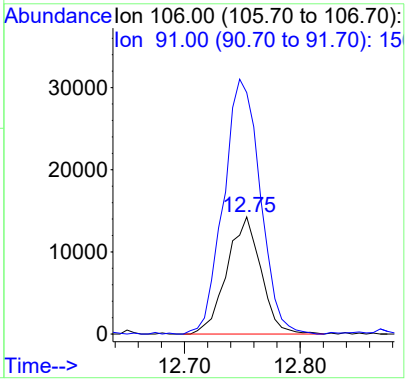


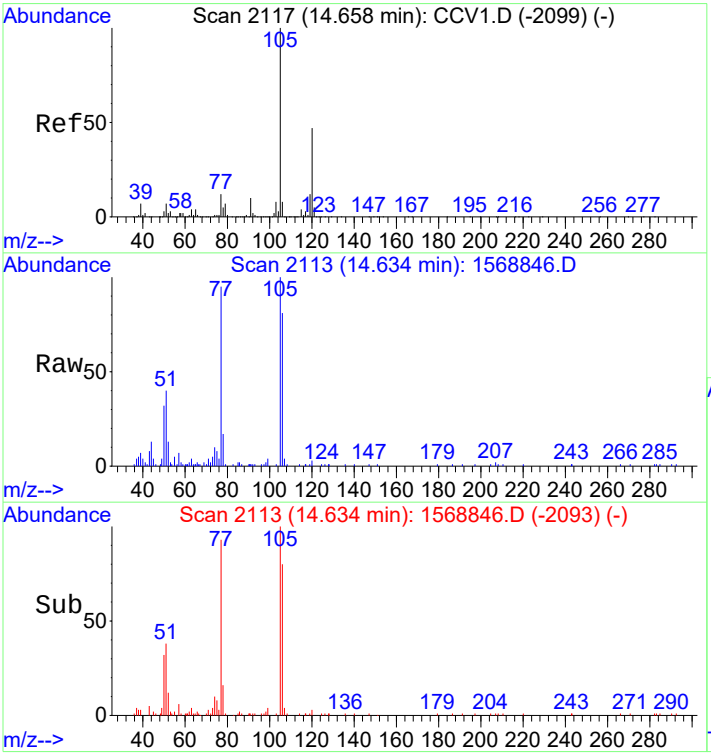



#76
o-Xylene
Concen: 0.00 mg/kg
RT: 12.75 min Scan# 1804
Delta R.T. 0.01 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion:106 Resp: 29222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 234.2 | 196.2 | 236.2 |

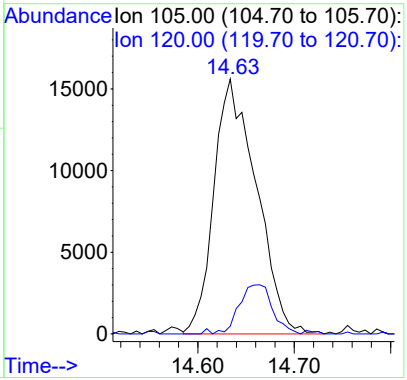



#92
124Trimetben
Concen: 0.00 mg/kg
RT: 14.63 min Scan# 2113
Delta R.T. -0.03 min
Lab File: 1568846.D
Acq: 11 Apr 2025 13:08

Tgt Ion:105 Resp: 47768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 15.0 | 25.8 | 65.8# |




Negative Library Identification

Library Search Compound Report

Data Path : C:\Instarch\Data\APR1125\
Data File : 1568846.D
Acq On : 11 Apr 2025 13:08
Operator : RLD-DGS
Sample : 290584,1568846,
Misc : 4.94g, 15.0 ml DI H2O Purged + IS/SS
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method

TIC Library : C:\DATABASE\NBS75K.L
TIC Integration Parameters: VOC.P

**********

Peak Number 1 Carbonyl sulfide Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 1.92 | 0.00 mg/kg | 271824 | FLUOROBENZENE**IS | 2408600 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Carbonyl sulfide | 60 | COS | 000463-58-1 | 5 |
| 2 | Carbonyl sulfide | 60 | COS | 000463-58-1 | 5 |
| 3 | 4(1H)-Pyrimidinone, 2-(ethylthio)- | 156 | C6H8N2OS | 006965-19-1 | 4 |
| 4 | Ethyne, chloro- | 60 | C2HCl | 000593-63-5 | 4 |
| 5 | Thiirane | 60 | C2H4S | 000420-12-2 | 4 |

**********

Peak Number 2 Sulfur dioxide Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.08 | 0.00 mg/kg | 187051 | FLUOROBENZENE**IS | 2408600 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfur dioxide | 64 | O2S | 007446-09-5 | 90 |
| 2 | Ethene, 1,2-difluoro- | 64 | C2H2F2 | 001691-13-0 | 4 |
| 3 | Ethene, 1,1-difluoro- | 64 | C2H2F2 | 000075-38-7 | 3 |
| 4 | Ethene, 1,1-difluoro- | 64 | C2H2F2 | 000075-38-7 | 3 |
| 5 | Ethyl Chloride | 64 | C2H5Cl | 000075-00-3 | 3 |

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Peak Number 3 1-Propene, 2-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.33 | 0.00 mg/kg | 262263 | FLUOROBENZENE**IS | 2408600 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 59 |
| 2 | 1-Butene | 56 | C4H8 | 000106-98-9 | 59 |
| 3 | 1-Butene | 56 | C4H8 | 000106-98-9 | 59 |
| 4 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 58 |
| 5 | Ethenyl t-butyl sulfoxide | 132 | C6H12OS | 000000-00-0 | 56 |

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Peak Number 4 Acetaldehyde Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.53 | 0.01 mg/kg | 1216560 | FLUOROBENZENE**IS | 2408600 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 64 |
| 2 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 64 |
| 3 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 56 |
| 4 | Ethylene oxide | 44 | C2H4O | 000075-21-8 | 5 |
| 5 | Ethylene oxide | 44 | C2H4O | 000075-21-8 | 5 |

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Peak Number 5 Pentane Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.55 | 0.00 mg/kg | 150310 | FLUOROBENZENE**IS | 2408600 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 53 |
| 2 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 53 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 53 |
| 4 | Pentane | 72 | C5H12 | 000109-66-0 | 53 |
| 5 | 2-Methylcyclooctan-1-one | 140 | C9H16O | 000000-00-0 | 47 |

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Peak Number 6 Acetic acid, methyl ester Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 4.71 | 0.01 mg/kg | 789119 | FLUOROBENZENE**IS | 2408600 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 80 |
| 2 | Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 72 |
| 3 | 1-Propanol, 2-methyl- | 74 | C4H10O | 000078-83-1 | 9 |
| 4 | Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 9 |
| 5 | Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 4 |

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Peak Number 7 Butanal Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 6.24 | 0.00 mg/kg | 463841 | FLUOROBENZENE**IS | 2408600 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal | 72 | C4H8O | 000123-72-8 | 86 |
| 2 | Butanal | 72 | C4H8O | 000123-72-8 | 64 |
| 3 | Butanal | 72 | C4H8O | 000123-72-8 | 59 |
| 4 | Butanal | 72 | C4H8O | 000123-72-8 | 53 |
| 5 | Ethene, ethoxy- | 72 | C4H8O | 000109-92-2 | 47 |

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Peak Number 8 Butanal, 3-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 7.72 | 0.00 mg/kg | 169377 | FLUOROBENZENE**IS | 2408600 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 90 |
| 2 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 90 |
| 3 | Pentanal | 86 | C5H10O | 000110-62-3 | 59 |

| | | | | | |
|---|---|---|---|---|---|
| 4 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 52 |
| 5 | Benzeneethanamine, 3-benzyloxy-2... | 275 | C16H18FNO2 | 000000-00-0 | 43 |

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Peak Number 9 Pentanal Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 8.70 | 0.00 mg/kg | 483072 | FLUOROBENZENE**IS | 2408600 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanal | 86 | C5H10O | 000110-62-3 | 78 |
| 2 | Pentanal | 86 | C5H10O | 000110-62-3 | 78 |
| 3 | Pentanal | 86 | C5H10O | 000110-62-3 | 74 |
| 4 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 50 |
| 5 | Pentanal | 86 | C5H10O | 000110-62-3 | 43 |

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Peak Number 10 Butanal, 4-hydroxy-3-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.32 | 0.00 mg/kg | 138142 | d5-CHLOROBENZENE* | 2246980 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal, 4-hydroxy-3-methyl- | 102 | C5H10O2 | 056805-34-6 | 59 |
| 2 | 1-Hexene, 2-methyl- | 98 | C7H14 | 006094-02-6 | 38 |
| 3 | Pentanal, 3-methyl- | 100 | C6H12O | 015877-57-3 | 38 |
| 4 | Cyclobutane, ethyl- | 84 | C6H12 | 004806-61-5 | 38 |
| 5 | Cyclopropane, propyl- | 84 | C6H12 | 002415-72-7 | 35 |

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Peak Number 11 Arsenous acid, tris(trimeth... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.58 | 0.00 mg/kg | 159459 | d5-CHLOROBENZENE* | 2246980 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Arsenous acid, tris(trimethylsil... | 342 | C9H27AsO3Si3 | 055429-29-3 | 64 |
| 2 | Cyclotrisiloxane, hexamethyl- | 222 | C6H18O3Si3 | 000541-05-9 | 56 |
| 3 | 7-Acetoxy-7,8,9,10-tetramethyl-7... | 294 | C20H22O2 | 000000-00-0 | 53 |
| 4 | 1,2,4-Benzenetricarboxylic acid,... | 238 | C11H10O6 | 054699-35-3 | 45 |
| 5 | Cyclotrisiloxane, hexamethyl- | 222 | C6H18O3Si3 | 000541-05-9 | 40 |

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Peak Number 12 Hexanal Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.98 | 0.01 mg/kg | 1040800 | d5-CHLOROBENZENE* | 2246980 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 87 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 80 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 72 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |
| 5 | Hexanal | 100 | C6H12O | 000066-25-1 | 50 |

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Peak Number 13 Heptanal Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 13.05 | 0.00 mg/kg | 329695 | d5-CHLOROBENZENE* | 2246980 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptanal | 114 | C7H14O | 000111-71-7 | 72 |
| 2 | Heptanal | 114 | C7H14O | 000111-71-7 | 47 |
| 3 | Heptanal | 114 | C7H14O | 000111-71-7 | 45 |
| 4 | Heptanal | 114 | C7H14O | 000111-71-7 | 43 |
| 5 | Heptanal | 114 | C7H14O | 000111-71-7 | 43 |

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Peak Number 14 Cyclotetrasiloxane, octamet... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 13.84 | 0.00 mg/kg | 218050 | d4-1,4-DICHLOROBE | 1798560 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 | 80 |
| 2 | 6,7-Benzo-phenothiazine-5,5-dioxide | 281 | C16H11NO2S | 000000-00-0 | 36 |
| 3 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 | 35 |
| 4 | 2-Oxo-4-phenyl-6-(4-chlorophenyl... | 282 | C16H11ClN2O | 000000-00-0 | 17 |
| 5 | Benzene, 1-phenyl-4-(2-cyano-2-p... | 281 | C21H15N | 027869-56-3 | 9 |

**********

Peak Number 15 2-Heptanone, 6-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.13 | 0.00 mg/kg | 132421 | d4-1,4-DICHLOROBE | 1798560 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 87 |
| 2 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 87 |
| 3 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 72 |
| 4 | 2-Octanone | 128 | C8H16O | 000111-13-7 | 50 |
| 5 | 2-Octanone | 128 | C8H16O | 000111-13-7 | 50 |

**********

Peak Number 16 2-Hexen-1-ol, (E)- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.32 | 0.00 mg/kg | 124750 | d4-1,4-DICHLOROBE | 1798560 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Hexen-1-ol, (E)- | 100 | C6H12O | 000928-95-0 | 27 |
| 2 | 1,1-Dodecanediol, diacetate | 286 | C16H30O4 | 056438-07-4 | 16 |
| 3 | Hexyl octyl ether | 214 | C14H30O | 000000-00-0 | 16 |
| 4 | 1-Hexen-3-ol | 100 | C6H12O | 004798-44-1 | 14 |
| 5 | Ethanethioic acid, S-(1-ethylbut... | 160 | C8H16OS | 055590-84-6 | 14 |

**********

Peak Number 17 Octanal Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.95 | 0.00 mg/kg | 247880 | d4-1,4-DICHLOROBE | 1798560 | 15.15 |



| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 1 Octanal | 128 | C8H16O | 000124-13-0 | 91 |
| 2 Octanal | 128 | C8H16O | 000124-13-0 | 90 |
| 3 Piperidine | 85 | C5H11N | 000110-89-4 | 58 |
| 4 Octanal | 128 | C8H16O | 000124-13-0 | 50 |
| 5 Cyclopentanol, 2-methyl-, trans- | 100 | C6H12O | 025144-04-1 | 38 |

**********

Peak Number 18 Benzene-1,2,3,4-d4-, 5,6-di... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 15.70 | 0.02 mg/kg | 1680410 | d4-1,4-DICHLOROBE | 1798560 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene-1,2,3,4-d4-, 5,6-dichloro- | 150 | C6Cl2D4 | 002199-69-1 | 95 |
| 2 | 1,4-Dichlorobenzene-d4 | 150 | C6Cl2D4 | 003855-82-1 | 95 |
| 3 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 10 |
| 4 | 2H-1-Benzopyran-3-ol, 3,4-dihydro- | 150 | C9H10O2 | 021834-60-6 | 9 |
| 5 | Biphenylene | 152 | C12H8 | 000259-79-0 | 9 |

**********

Peak Number 19 Nonanal Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 16.67 | 0.00 mg/kg | 99239 | d4-1,4-DICHLOROBE | 1798560 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonanal | 142 | C9H18O | 000124-19-6 | 59 |
| 2 | Nonanal | 142 | C9H18O | 000124-19-6 | 53 |
| 3 | Nonanal | 142 | C9H18O | 000124-19-6 | 53 |
| 4 | Cyclopentane, 1,2-dimethyl- | 98 | C7H14 | 002452-99-5 | 43 |
| 5 | 1-Decene | 140 | C10H20 | 000872-05-9 | 38 |

**********

Peak Number 20 3,3-Diethoxy-1,1,1,5,5,5-he... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 19.82 | 0.01 mg/kg | 707894 | d4-1,4-DICHLOROBE | 1798560 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,3-Diethoxy-1,1,1,5,5,5-hexamet... | 296 | C10H28O4Si3 | 000000-00-0 | 50 |
| 2 | Cyclotrisiloxane, hexamethyl- | 222 | C6H18O3Si3 | 000541-05-9 | 47 |
| 3 | Tetrasiloxane, decamethyl- | 310 | C10H30O3Si4 | 000141-62-8 | 47 |
| 4 | Cyclotrisiloxane, hexamethyl- | 222 | C6H18O3Si3 | 000541-05-9 | 43 |
| 5 | 1H-Indole, 5-methyl-2-phenyl- | 207 | C15H13N | 013228-36-9 | 43 |

LS041025.M Mon Apr 14 13:54:01 2025

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568828.D Vial: 13
Acq On : 11 Apr 2025 13:37 Operator: RLD-DGS
Sample : 290584,1568828, Inst : VMS4
Misc : 4.25g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 13:57:50 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1085130 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 781984 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 312210 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 283857 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 95 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 58206 | 0.021 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 105 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1035540 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 352797 | 0.023 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 115 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.19 | 50 | 2113 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.86 | 94 | 6631 | N.D. | | |
| 6) Chloroethane | 2.93 | 64 | 14049 | 0.0014 | mg/kg# | 42 |
| 7) dichloroflmethane | 3.34 | 67 | 3285 | N.D. | | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 3.88 | 67 | 3467 | N.D. | | |
| 11) propyleneoxide | 4.10 | 58 | 115893 | 0.0620 | mg/kg | 97 |
| 12) Acrolein | 4.01 | 56 | 5753 | 0.0028 | mg/kg# | 56 |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.24 | 43 | 546703 | 0.1290 | mg/kg | 98 |
| 16) Iodomethane | 4.33 | 142 | 4640 | 0.0003 | mg/kg# | 89 |
| 17) Carbon Dislf | 4.43 | 76 | 267219 | 0.0082 | mg/kg | 99 |
| 18) allylchloride | 4.56 | 41 | 2264 | N.D. | | |
| 19) methylacetate | 4.73 | 74 | 1940 | N.D. | | |
| 20) Methylchlorid | 4.80 | 84 | 10351 | Below Cal | | 94 |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 5.19 | 96 | 3648 | N.D. | | |
| 23) tbutylalcohol | 5.05 | 59 | 17166 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 5.58 | 57 | 40803 | 0.0025 | mg/kg | 96 |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 5.82 | 45 | 1860 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.41 | 77 | 1163 | N.D. | | |
| 32) c12dichlorte | 6.45 | 96 | 39042 | 0.0025 | mg/kg | 89 |
| 33) 2Butanone | 6.49 | 72 | 20814 | 0.0161 | mg/kg | 91 |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.88 | 42 | 3736 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568828.D Vial: 13
Acq On : 11 Apr 2025 13:37 Operator: RLD-DGS
Sample : 290584,1568828, Inst : VMS4
Misc : 4.25g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 13:57:50 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 1699 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 7.19 | 56 | 15633 | 0.0008 mg/kg | 93 |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 7.55 | 78 | 23519 | 0.0004 mg/kg | 95 |
| 47) | 12dichlorota | 7.55 | 62 | 1195 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 8.37 | 95 | 276833 | 0.0182 mg/kg | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 26616 | 0.0012 mg/kg | 94 |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 8.89 | 69 | 2155 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 0.00 | 43 | 0 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 9.76 | 43 | 3202 | N.D. | |
| 61) | Toluene | 10.00 | 92 | 37818 | 0.0011 mg/kg | 94 |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 10.33 | 69 | 3634 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 10.75 | 166 | 663981 | 0.0420 mg/kg | 99 |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 10.86 | 43 | 6313 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 11.84 | 91 | 2422 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 12.04 | 91 | 12890 | N.D. | |
| 75) | m p-Xylene | 12.19 | 106 | 14484 | N.D. | |
| 76) | o-Xylene | 12.75 | 106 | 5525 | N.D. | |
| 77) | Styrene | 12.76 | 104 | 1271 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 13.28 | 105 | 2411 | N.D. | |
| 81) | cyclohexanone | 13.39 | 55 | 1564 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 13.86 | 91 | 4023 | N.D. | |
| 88) | 2chlorotolue | 13.98 | 91 | 1605 | N.D. | |
| 89) | 4chlorotolue | 14.13 | 91 | 2081 | N.D. | |
| 90) | 135Trimebenz | 14.12 | 105 | 10544 | N.D. | |
| 91) | tbutylbenzen | 14.66 | 119 | 2709 | N.D. | |
| 92) | 124Trimetben | 14.65 | 105 | 43956 | 0.0012 mg/kg# | 59 |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) | pIsopropylto | 15.12 | 119 | 10761 | N.D. | |
| 96) | 14dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 97) | 12dichlorobe | 15.70 | 146 | 1234 | N.D. | |
| 98) | nButylbenzen | 15.73 | 91 | 1460 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568828.D Vial: 13
Acq On : 11 Apr 2025 13:37 Operator: RLD-DGS
Sample : 290584,1568828, Inst : VMS4
Misc : 4.25g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 13:57:50 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | |
| 103) Naphthalene | 18.24 | 128 | 7984 | N.D. | |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | |

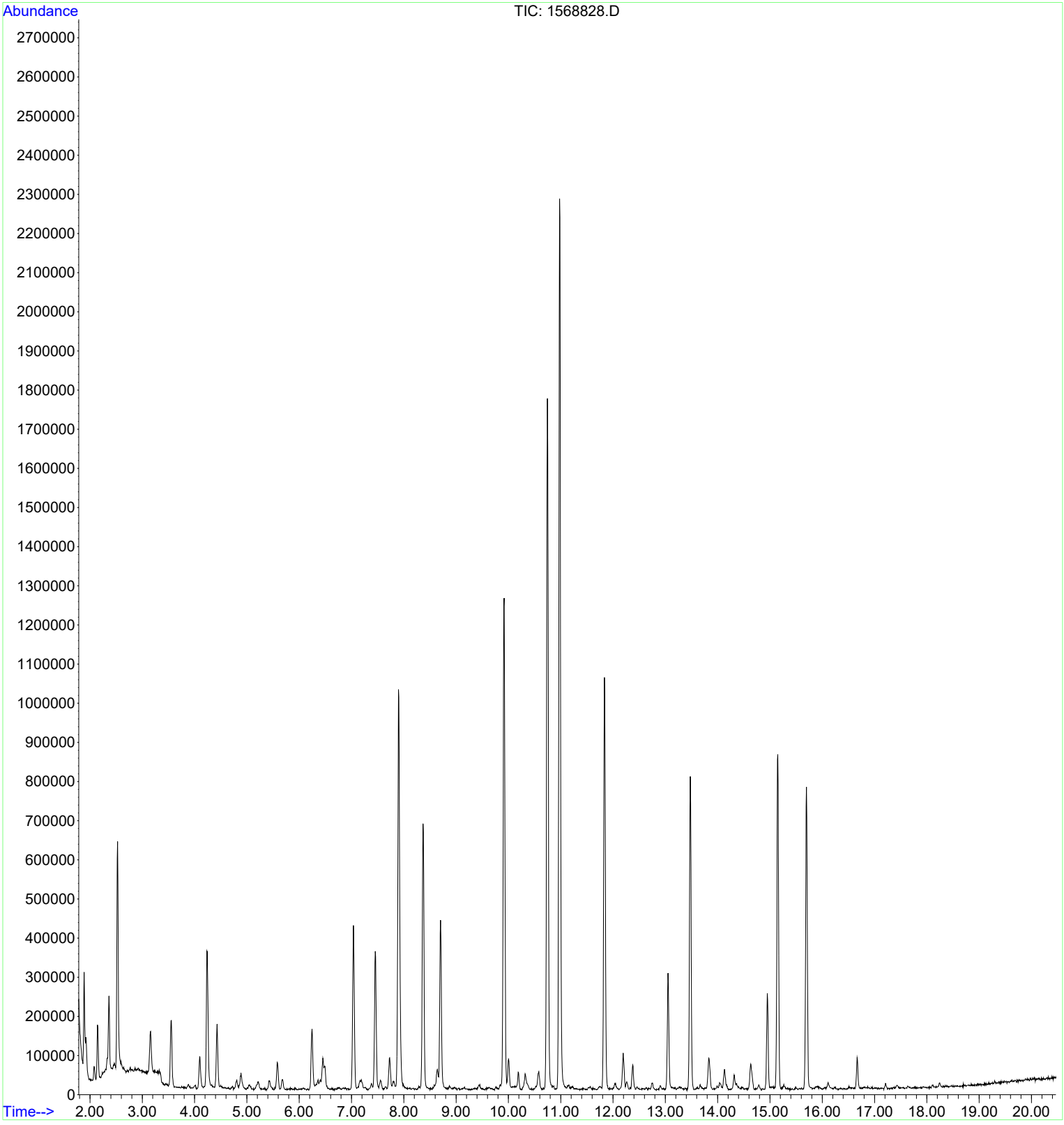
(#) = qualifier out of range (m) = manual integration

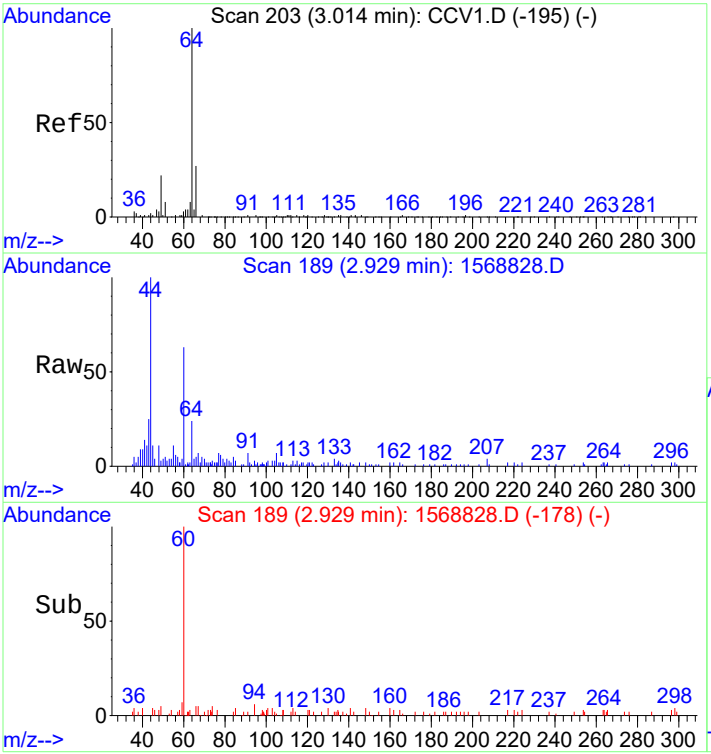
Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568828.D Vial: 13
Acq On : 11 Apr 2025 13:37 Operator: RLD-DGS
Sample : 290584,1568828, Inst : VMS4
Misc : 4.25g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 13:57:50 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

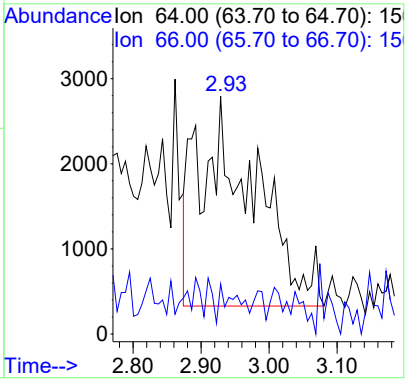




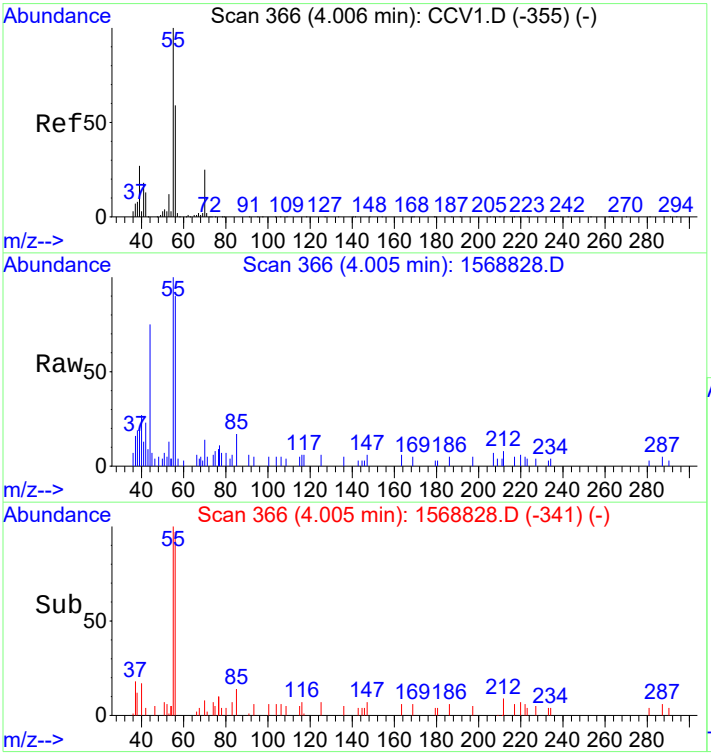

#6
Chloroethane
Concen: 0.00 mg/kg
RT: 2.93 min Scan# 189
Delta R.T. -0.09 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion: 64 Resp: 14049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 13.1 | 53.1# |



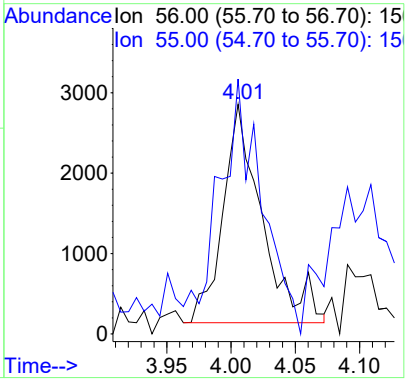

Negative Library Identification



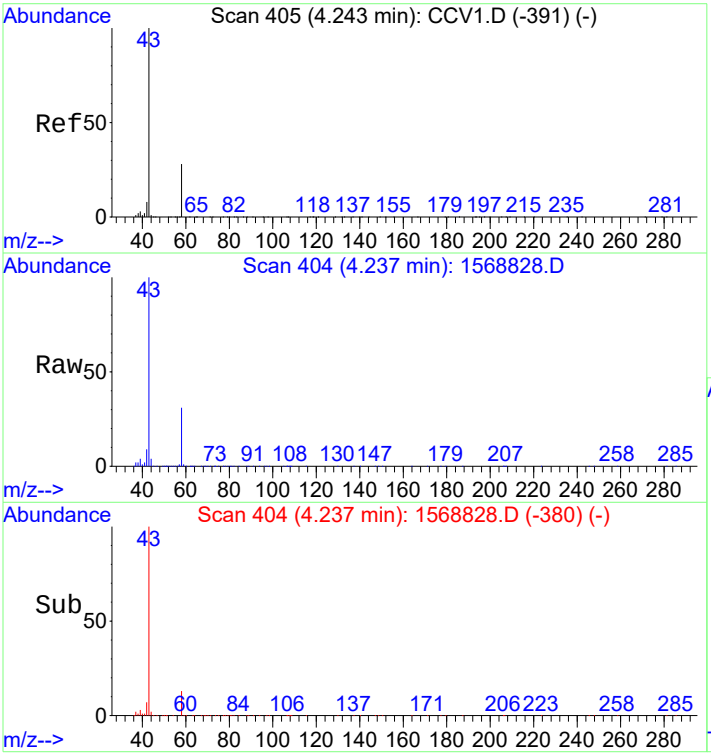

#12
Acrolein
Concen: 0.00 mg/kg
RT: 4.01 min Scan# 366
Delta R.T. 0.00 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion: 56 Resp: 5753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 121.5 | 165.3 | 205.3# |



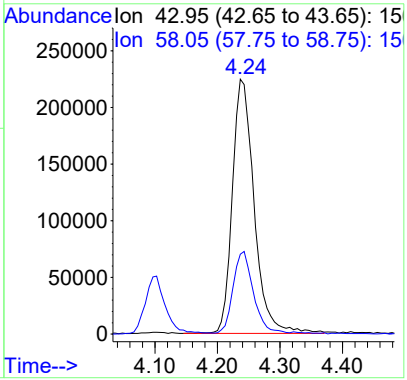

Negative Library Identification

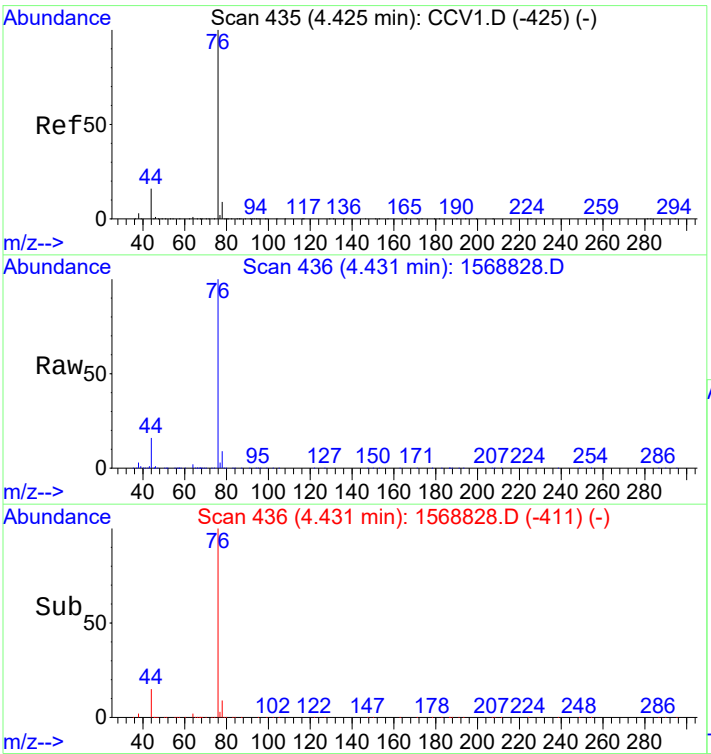



#15
Acetone
Concen: 0.13 mg/kg
RT: 4.24 min Scan# 404
Delta R.T. -0.01 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion: 43 Resp: 546703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.8 | 8.8 | 48.8 |

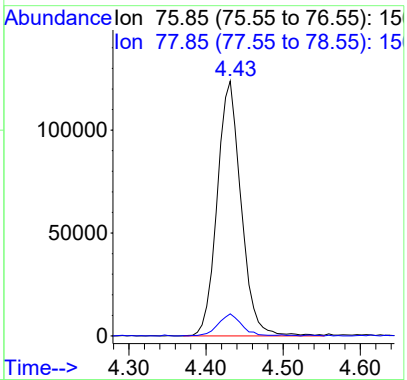


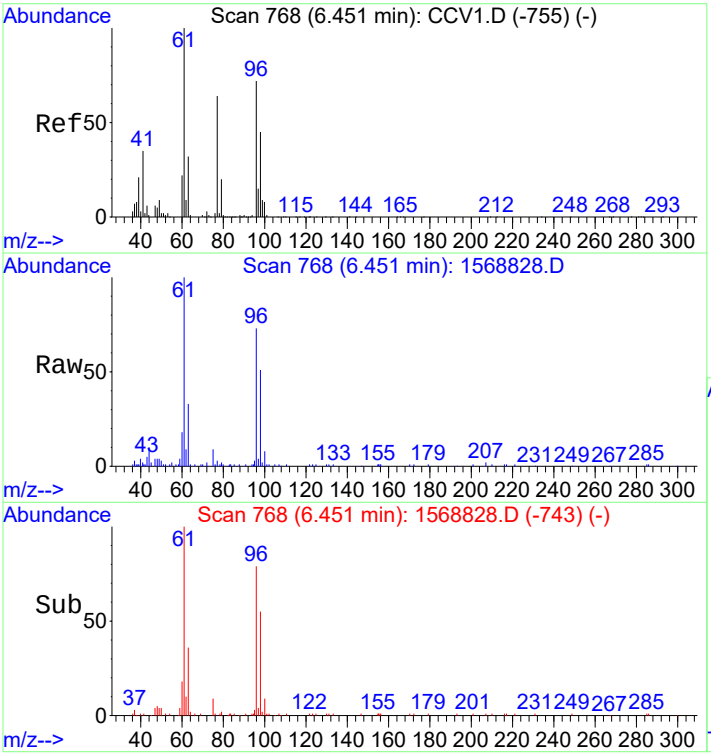




#17
Carbon Dislf
Concen: 0.01 mg/kg
RT: 4.43 min Scan# 436
Delta R.T. 0.00 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion: 76 Resp: 267219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 0.0 | 29.0 |

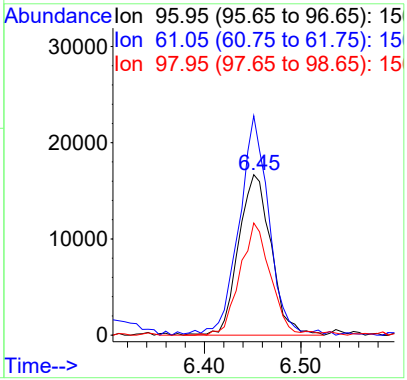


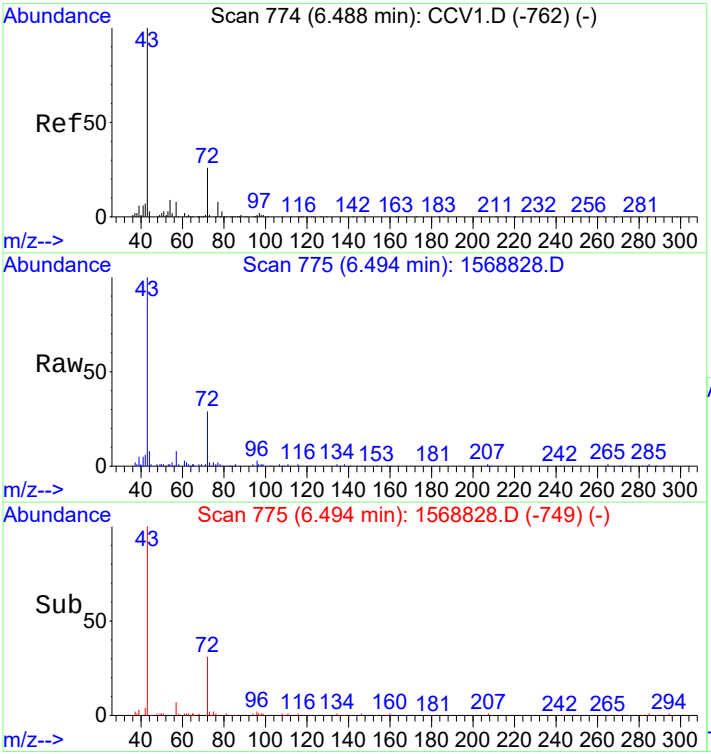



#32
c12dichlorte
Concen: 0.00 mg/kg
RT: 6.45 min Scan# 768
Delta R.T. -0.00 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion: 96 Resp: 39042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 126.6 | 123.9 | 163.9 |
| 98 | 67.1 | 44.6 | 84.6 |

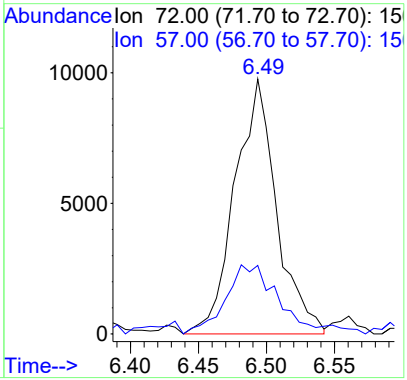


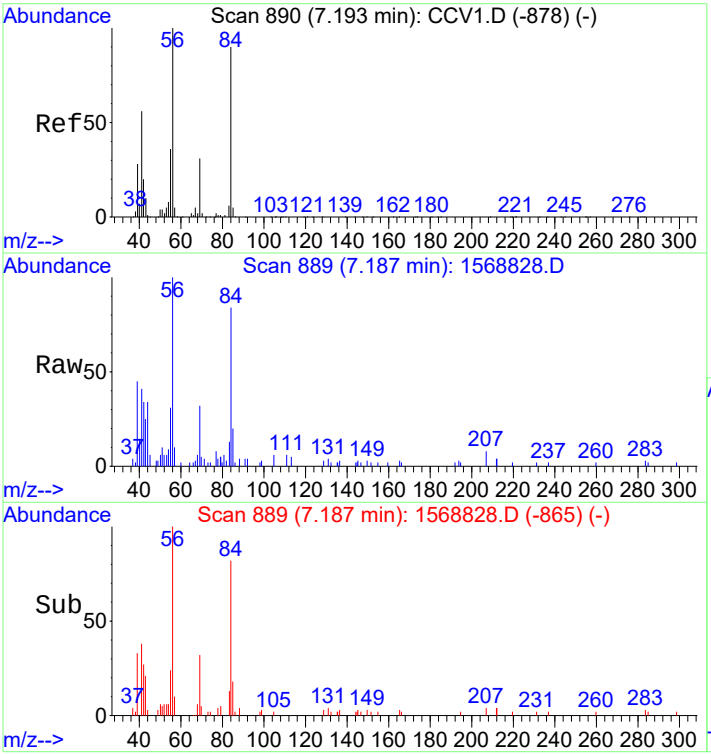




#33
2Butanone
Concen: 0.02 mg/kg
RT: 6.49 min Scan# 775
Delta R.T. 0.01 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion: 72 Resp: 20814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 35.3 | 10.5 | 50.5 |

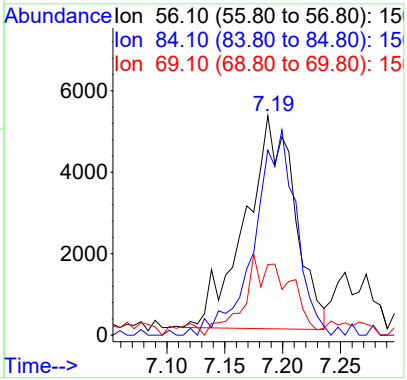


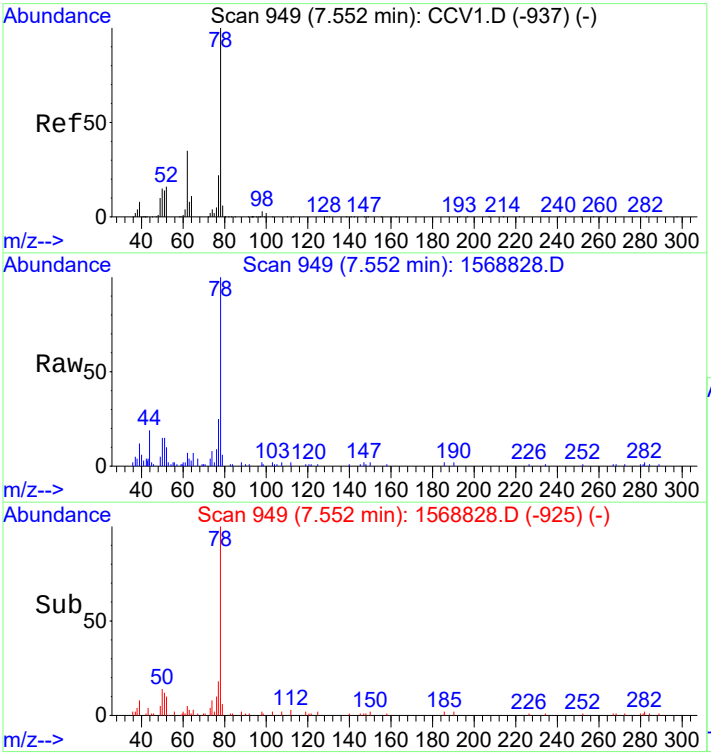



#42
Cyclohexane
Concen: 0.00 mg/kg
RT: 7.19 min Scan# 889
Delta R.T. -0.01 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion: 56 Resp: 15633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 80.2 | 67.6 | 107.6 |
| 69 | 33.8 | 10.6 | 50.6 |

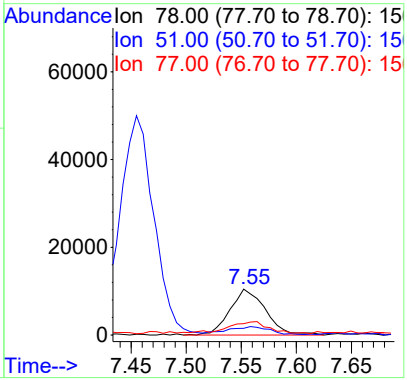


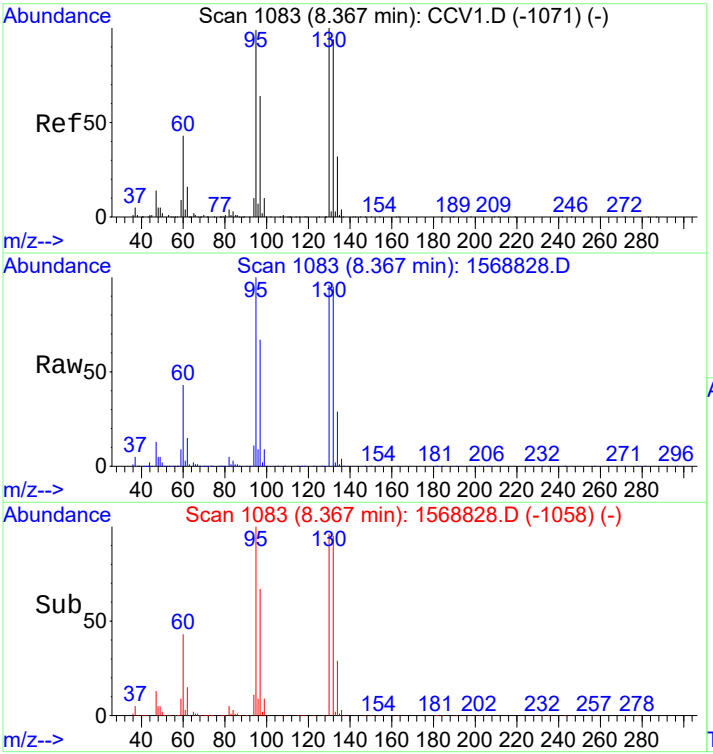




#46
Benzene
Concen: 0.00 mg/kg
RT: 7.55 min Scan# 949
Delta R.T. -0.01 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion: 78 Resp: 23519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 51 | 20.6 | 0.3 | 40.3 |
| 77 | 29.4 | 4.9 | 44.9 |

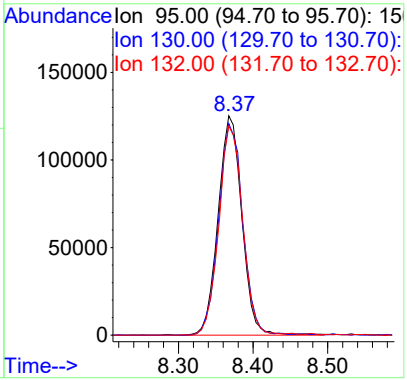


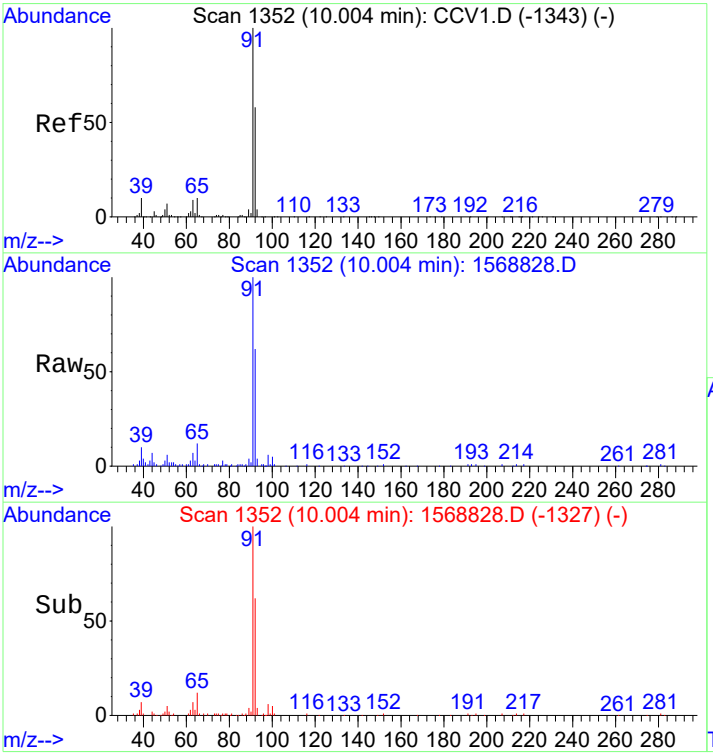



#49
trichloroete
Concen: 0.02 mg/kg
RT: 8.37 min Scan# 1083
Delta R.T. -0.00 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion: 95 Resp: 276833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 98.4 | 78.4 | 118.4 |
| 132 | 96.2 | 74.9 | 114.9 |

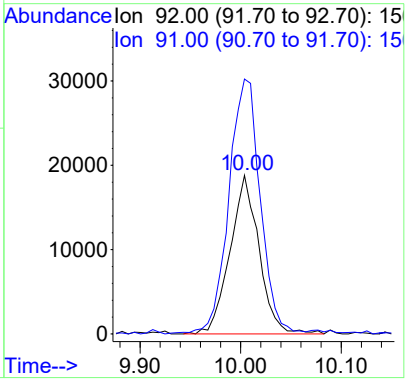


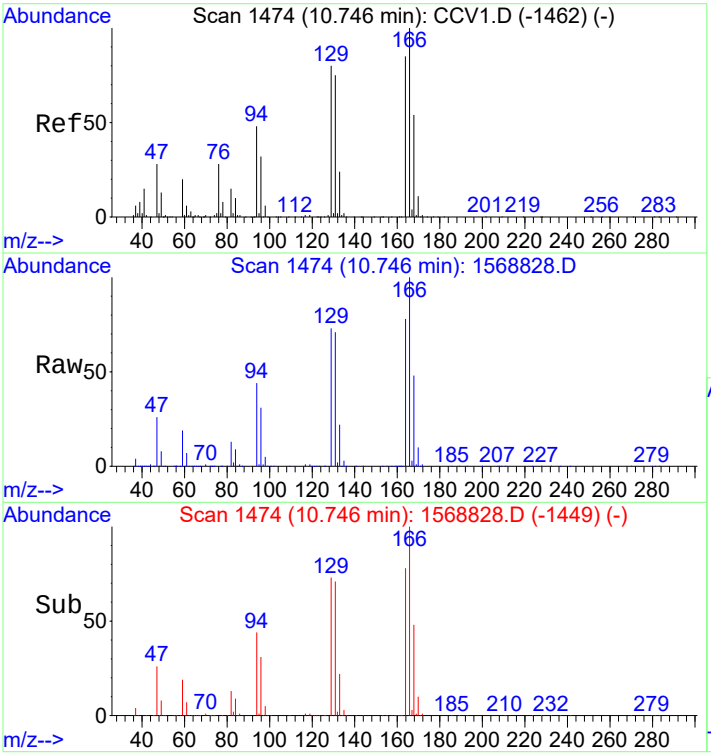




#61
Toluene
Concen: 0.00 mg/kg
RT: 10.00 min Scan# 1352
Delta R.T. -0.00 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion: 92 Resp: 37818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 176.5 | 148.0 | 188.0 |

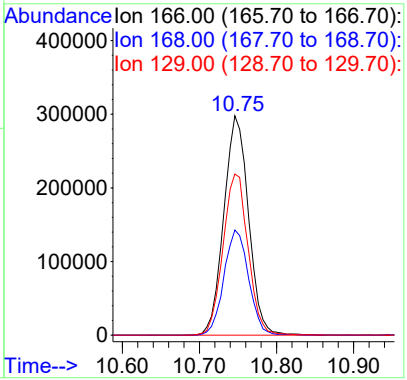


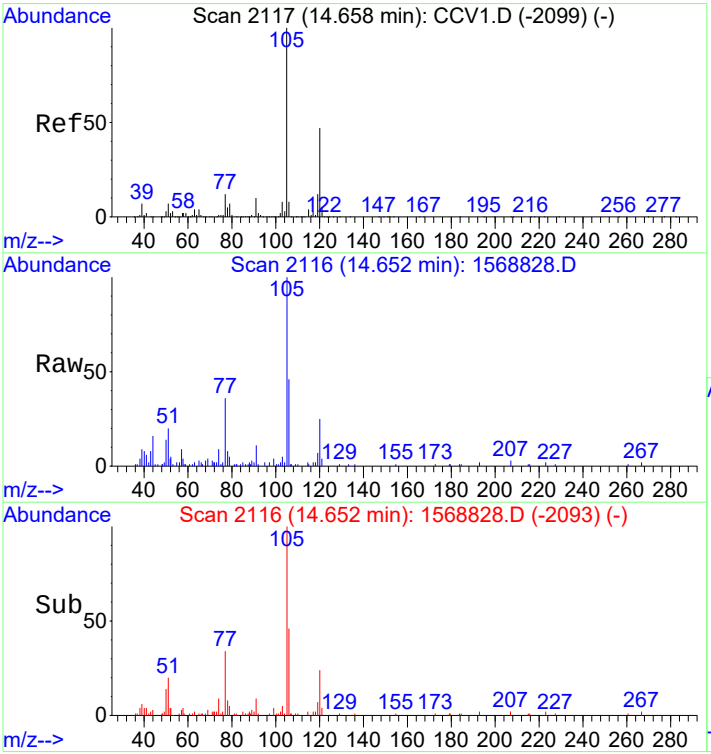



#65
Tetrachlorte
Concen: 0.04 mg/kg
RT: 10.75 min Scan# 1474
Delta R.T. 0.00 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion:166 Resp: 663981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 47.9 | 29.9 | 69.9 |
| 129 | 74.4 | 54.5 | 94.5 |

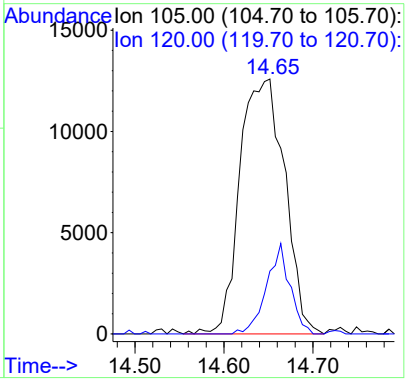



#92
124Trimetben
Concen: 0.00 mg/kg
RT: 14.65 min Scan# 2116
Delta R.T. -0.01 min
Lab File: 1568828.D
Acq: 11 Apr 2025 13:37

Tgt Ion:105 Resp: 43956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 18.6 | 25.8 | 65.8# |



Library Search Compound Report

Data Path : C:\Instarch\Data\APR1125\
Data File : 1568828.D
Acq On : 11 Apr 2025 13:37
Operator : RLD-DGS
Sample : 290584,1568828,
Misc : 4.25g, 15.0 ml DI H2O Purged + IS/SS
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method

TIC Library : C:\DATABASE\NBS75K.L
TIC Integration Parameters: VOC.P

**********
Peak Number 1 Cyclopropanecarboxylic acid Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 1.89 | 0.00 mg/kg | 631906 | FLUOROBENZENE**IS | 2600570 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopropanecarboxylic acid | 86 | C4H6O2 | 001759-53-1 | 59 |
| 2 | 3-Butenoic acid | 86 | C4H6O2 | 000625-38-7 | 59 |
| 3 | 3,6-Pyridazinedione, 1,2-dihydro... | 126 | C5H6N2O2 | 005754-18-7 | 50 |
| 4 | Cyclopropanecarboxylic acid | 86 | C4H6O2 | 001759-53-1 | 45 |
| 5 | 2-Nonynoic acid | 154 | C9H14O2 | 001846-70-4 | 42 |

**********
Peak Number 2 Isobutane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.14 | 0.00 mg/kg | 460654 | FLUOROBENZENE**IS | 2600570 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isobutane | 58 | C4H10 | 000075-28-5 | 50 |
| 2 | Isobutane | 58 | C4H10 | 000075-28-5 | 50 |
| 3 | trans-2,3-Epoxynonane | 142 | C9H18O | 056820-01-0 | 12 |
| 4 | Isobutane | 58 | C4H10 | 000075-28-5 | 9 |
| 5 | 2(3H)-Furanone, 3-bromodihydro- | 164 | C4H5BrO2 | 005061-21-2 | 4 |

**********
Peak Number 3 Butane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.36 | 0.00 mg/kg | 589156 | FLUOROBENZENE**IS | 2600570 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 53 |
| 2 | Butane | 58 | C4H10 | 000106-97-8 | 53 |
| 3 | CH2=CHCH2C(O)OCH3 | 100 | C5H8O2 | 003724-55-8 | 33 |
| 4 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 9 |
| 5 | 1-Butanol | 74 | C4H10O | 000071-36-3 | 5 |

**********
Peak Number 4 Acetaldehyde Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.53 | 0.02 mg/kg | 2149280 | FLUOROBENZENE**IS | 2600570 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 86 |
| 2 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 64 |
| 3 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 9 |
| 4 | Ethylene oxide | 44 | C2H4O | 000075-21-8 | 5 |
| 5 | Propane | 44 | C3H8 | 000074-98-6 | 4 |

**********

Peak Number 5 Butane, 2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.16 | 0.01 mg/kg | 710991 | FLUOROBENZENE**IS | 2600570 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 86 |
| 2 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 78 |
| 3 | 1-Propanol, 2-methyl- | 74 | C4H10O | 000078-83-1 | 40 |
| 4 | Oxirane, 2,2-dimethyl- | 72 | C4H8O | 000558-30-5 | 38 |
| 5 | Butyrolactone | 86 | C4H6O2 | 000096-48-0 | 33 |

**********

Peak Number 6 Pentane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.56 | 0.00 mg/kg | 440333 | FLUOROBENZENE**IS | 2600570 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 86 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 86 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 80 |
| 4 | Oxirane, ethyl- | 72 | C4H8O | 000106-88-7 | 42 |
| 5 | Butane, 2,3-dimethyl- | 86 | C6H14 | 000079-29-8 | 33 |

**********

Peak Number 7 Propanal Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 4.10 | 0.00 mg/kg | 204758 | FLUOROBENZENE**IS | 2600570 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanal | 58 | C3H6O | 000123-38-6 | 50 |
| 2 | Propanal | 58 | C3H6O | 000123-38-6 | 9 |
| 3 | Propanal | 58 | C3H6O | 000123-38-6 | 9 |
| 4 | Trimethylene oxide | 58 | C3H6O | 000503-30-0 | 9 |
| 5 | Propanal | 58 | C3H6O | 000123-38-6 | 9 |

**********

Peak Number 8 Butanal Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 6.24 | 0.00 mg/kg | 522297 | FLUOROBENZENE**IS | 2600570 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal | 72 | C4H8O | 000123-72-8 | 90 |
| 2 | Butanal | 72 | C4H8O | 000123-72-8 | 83 |
| 3 | Butanal | 72 | C4H8O | 000123-72-8 | 59 |

| | | | | | |
|---|---|---|---|---|---|
| 4 Butanal | 72 | C4H8O | 000123-72-8 | 58 |
| 5 Butanal | 72 | C4H8O | 000123-72-8 | 53 |

**********

Peak Number 9 Butanal, 3-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 7.73 | 0.00 mg/kg | 192201 | FLUOROBENZENE**IS | 2600570 | 7.90 |

| Hit# of 5 Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|
| 1 Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 90 |
| 2 Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 56 |
| 3 Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 50 |
| 4 Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 28 |
| 5 Thenyldiamine | 261 | C14H19N3S | 000091-79-2 | 25 |

**********

Peak Number 10 Pentanal Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 8.70 | 0.01 mg/kg | 979219 | FLUOROBENZENE**IS | 2600570 | 7.90 |

| Hit# of 5 Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|
| 1 Pentanal | 86 | C5H10O | 000110-62-3 | 78 |
| 2 Pentanal | 86 | C5H10O | 000110-62-3 | 64 |
| 3 Pentanal | 86 | C5H10O | 000110-62-3 | 64 |
| 4 Pentanal | 86 | C5H10O | 000110-62-3 | 40 |
| 5 Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 40 |

**********

Peak Number 11 Cyclobutane, ethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.32 | 0.00 mg/kg | 155926 | d5-CHLOROBENZENE* | 2308380 | 11.83 |

| Hit# of 5 Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|
| 1 Cyclobutane, ethyl- | 84 | C6H12 | 004806-61-5 | 50 |
| 2 4-Penten-2-ol, 4-methyl- | 100 | C6H12O | 002004-67-3 | 50 |
| 3 Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 45 |
| 4 Butanal, 4-hydroxy-3-methyl- | 102 | C5H10O2 | 056805-34-6 | 45 |
| 5 5-Methyl-1,5-hexadien-3-ol | 112 | C7H12O | 000000-00-0 | 45 |

**********

Peak Number 12 Hexanal Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.98 | 0.04 mg/kg | 4965410 | d5-CHLOROBENZENE* | 2308380 | 11.83 |

| Hit# of 5 Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|
| 1 Hexanal | 100 | C6H12O | 000066-25-1 | 91 |
| 2 Hexanal | 100 | C6H12O | 000066-25-1 | 90 |
| 3 Hexanal | 100 | C6H12O | 000066-25-1 | 90 |
| 4 Hexanal | 100 | C6H12O | 000066-25-1 | 78 |
| 5 Hexanal | 100 | C6H12O | 000066-25-1 | 64 |

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Peak Number 13 2-Furancarboxaldehyde Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 12.19 | 0.00 mg/kg | 230464 | d5-CHLOROBENZENE* | 2308380 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 | 90 |
| 2 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 | 81 |
| 3 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 | 74 |
| 4 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 | 74 |
| 5 | 2-Furancarboxaldehyde | 96 | C5H4O2 | 000098-01-1 | 74 |

**********

Peak Number 14 Heptanal Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 13.05 | 0.01 mg/kg | 646025 | d5-CHLOROBENZENE* | 2308380 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptanal | 114 | C7H14O | 000111-71-7 | 87 |
| 2 | Heptanal | 114 | C7H14O | 000111-71-7 | 58 |
| 3 | Heptanal | 114 | C7H14O | 000111-71-7 | 47 |
| 4 | Heptanal | 114 | C7H14O | 000111-71-7 | 45 |
| 5 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 43 |

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Peak Number 15 Cyclotetrasiloxane, octamet... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 13.83 | 0.00 mg/kg | 202734 | d4-1,4-DICHLOROBE | 1890480 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 | 80 |
| 2 | 6,7-Benzo-phenothiazine-5,5-dioxide | 281 | C16H11NO2S | 000000-00-0 | 59 |
| 3 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 | 32 |
| 4 | 2-Oxo-4-phenyl-6-(4-chlorophenyl... | 282 | C16H11ClN2O | 000000-00-0 | 9 |
| 5 | 1,2-Dihydroanthra[1,2-d]thiazole... | 281 | C15H7NO3S | 000000-00-0 | 9 |

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Peak Number 16 2-Heptanone, 6-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.13 | 0.00 mg/kg | 147805 | d4-1,4-DICHLOROBE | 1890480 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 38 |
| 2 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 38 |
| 3 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 35 |
| 4 | 2-Isopropyl-5-oxohexanal | 156 | C9H16O2 | 015303-46-5 | 35 |
| 5 | 2-Octanone | 128 | C8H16O | 000111-13-7 | 27 |

**********

Peak Number 17 Octanal Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.95 | 0.01 mg/kg | 532381 | d4-1,4-DICHLOROBE | 1890480 | 15.15 |



| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 1 | Octanal | 128 | C8H16O | 000124-13-0 91 |
| 2 | Octanal | 128 | C8H16O | 000124-13-0 86 |
| 3 | Octanal | 128 | C8H16O | 000124-13-0 83 |
| 4 | Piperidine | 85 | C5H11N | 000110-89-4 74 |
| 5 | 1,2-Cyclopentanediol, trans- | 102 | C5H10O2 | 005057-99-8 42 |

**********

Peak Number 18 Benzene-1,2,3,4-d4-, 5,6-di... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 15.70 | 0.02 mg/kg | 1721510 | d4-1,4-DICHLOROBE | 1890480 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene-1,2,3,4-d4-, 5,6-dichloro- | 150 | C6Cl2D4 | 002199-69-1 | 96 |
| 2 | 1,4-Dichlorobenzene-d4 | 150 | C6Cl2D4 | 003855-82-1 | 96 |
| 3 | Benzaldehyde, 2-hydroxy-3-methoxy- | 152 | C8H8O3 | 000148-53-8 | 35 |
| 4 | 9-Borabicyclo[3.3.1]nonane, 9-et... | 150 | C10H19B | 052102-17-7 | 9 |
| 5 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 9 |

**********

Peak Number 19 Nonanal Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 16.67 | 0.00 mg/kg | 236399 | d4-1,4-DICHLOROBE | 1890480 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonanal | 142 | C9H18O | 000124-19-6 | 72 |
| 2 | Nonanal | 142 | C9H18O | 000124-19-6 | 64 |
| 3 | Nonanal | 142 | C9H18O | 000124-19-6 | 59 |
| 4 | Dodecanal | 184 | C12H24O | 000112-54-9 | 49 |
| 5 | Cyclohexanol, methyl- | 114 | C7H14O | 025639-42-3 | 38 |

**********

Peak Number 20 Silane, trimethyl[5-methyl-... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 19.92 | 0.01 mg/kg | 942109 | d4-1,4-DICHLOROBE | 1890480 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Silane, trimethyl[5-methyl-2-(1-... | 222 | C13H22OSi | 055012-80-1 | 50 |
| 2 | 3,3-Diethoxy-1,1,1,5,5,5-hexamet... | 296 | C10H28O4Si3 | 000000-00-0 | 45 |
| 3 | 2,4-Cyclohexadien-1-one, 3,5-bis... | 222 | C14H22O2 | 054965-43-4 | 43 |
| 4 | Phenanthridinium, 5,6-dimethyl-,... | 335 | C15H14IN | 016511-48-1 | 43 |
| 5 | 1,3,5-Triazine, 2-chloro-4,6-bis... | 207 | C5H6ClN3S2 | 004407-40-3 | 38 |

LS041025.M Mon Apr 14 13:52:58 2025

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568830.D Vial: 14
Acq On : 11 Apr 2025 14:06 Operator: RLD-DGS
Sample : 290584,1568830, Inst : VMS4
Misc : 4.95g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 14:26:59 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1038588 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 765797 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 322141 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 270754 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 95 % | | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 57482 | 0.022 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 110 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1011505 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 344905 | 0.022 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 110 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 2071 | N.D. | | |
| 4) VinylChlorid | 2.36 | 62 | 3596 | N.D. | | |
| 5) Bromomethane | 2.86 | 94 | 3263 | N.D. | | |
| 6) Chloroethane | 2.92 | 64 | 10873 | 0.0011 | mg/kg# | 42 |
| 7) dichloroflmethane | 3.32 | 67 | 1146 | N.D. | | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 3.87 | 67 | 3390 | N.D. | | |
| 11) propyleneoxide | 4.10 | 58 | 97621 | 0.0545 | mg/kg | 94 |
| 12) Acrolein | 4.01 | 56 | 3154 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.24 | 43 | 443050 | 0.1092 | mg/kg | 99 |
| 16) Iodomethane | 4.33 | 142 | 4594 | 0.0004 | mg/kg# | 81 |
| 17) Carbon Dislf | 4.43 | 76 | 66405 | 0.0021 | mg/kg | 99 |
| 18) allylchloride | 4.58 | 41 | 2596 | N.D. | | |
| 19) methylacetate | 4.71 | 74 | 19198 | 0.0048 | mg/kg | 98 |
| 20) Methylchlorid | 4.80 | 84 | 10473 | Below | Cal | 98 |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 5.18 | 96 | 7543 | 0.0005 | mg/kg | 93 |
| 23) tbutylalcohol | 5.05 | 59 | 21578 | 0.0316 | mg/kg | 100 |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 5.59 | 57 | 18333 | 0.0012 | mg/kg | 91 |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 6.45 | 59 | 5951 | 0.0008 | mg/kg# | 39 |
| 31) 22dichloropr | 6.40 | 77 | 3416 | N.D. | | |
| 32) c12dichlorte | 6.45 | 96 | 221263 | 0.0150 | mg/kg# | 87 |
| 33) 2Butanone | 6.49 | 72 | 20266 | 0.0163 | mg/kg | 85 |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.88 | 42 | 3034 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568830.D Vial: 14
Acq On : 11 Apr 2025 14:06 Operator: RLD-DGS
Sample : 290584,1568830, Inst : VMS4
Misc : 4.95g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 14:26:59 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) Cyclohexane | 7.19 | 56 | 4208 | N.D. | |
| 43) Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) Benzene | 7.56 | 78 | 81714 | 0.0016 mg/kg | 95 |
| 47) 12dichlorota | 7.56 | 62 | 1841 | N.D. | |
| 48) TAME | 0.00 | 73 | 0 | N.D. | |
| 49) trichloroete | 8.37 | 95 | 424910 | 0.0292 mg/kg | 98 |
| 50) methylcyclohexane | 8.64 | 83 | 6509 | N.D. | |
| 51) 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) methylmethacrylate | 8.88 | 69 | 1529 | N.D. | |
| 55) 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) 2Nitropropane | 9.22 | 43 | 3417 | N.D. | |
| 58) c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) 4Meth2Pentan | 9.77 | 43 | 5063 | N.D. | |
| 61) Toluene | 10.00 | 92 | 112904 | 0.0033 mg/kg | 99 |
| 62) t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) ethylmethacrylate | 10.30 | 69 | 1697 | N.D. | |
| 64) 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) Tetrachlorte | 10.75 | 166 | 831255 | 0.0549 mg/kg | 98 |
| 66) 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) 2Hexanone | 10.86 | 43 | 10948 | N.D. | |
| 69) Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) 1Clhexane | 11.84 | 91 | 3091 | N.D. | |
| 73) 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) Ethylbenzene | 12.04 | 91 | 22738 | N.D. | |
| 75) m p-Xylene | 12.19 | 106 | 47281 | 0.0021 mg/kg | 98 |
| 76) o-Xylene | 12.75 | 106 | 29073 | 0.0013 mg/kg | 97 |
| 77) Styrene | 12.76 | 104 | 2015 | N.D. | |
| 78) Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) Isopropylben | 13.28 | 105 | 2986 | N.D. | |
| 81) cyclohexanone | 13.36 | 55 | 1000 | N.D. | |
| 83) Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) n-Propylbenz | 13.86 | 91 | 5794 | N.D. | |
| 88) 2chlorotolue | 13.98 | 91 | 10718 | N.D. | |
| 89) 4chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 90) 135Trimebenz | 14.13 | 105 | 6376 | N.D. | |
| 91) tbutylbenzen | 14.66 | 119 | 2439 | N.D. | |
| 92) 124Trimetben | 14.64 | 105 | 40622 | 0.0010 mg/kg# | 63 |
| 93) sbutylbenzen | 14.92 | 105 | 1029 | N.D. | |
| 94) 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) pIsopropylto | 15.13 | 119 | 5160 | N.D. | |
| 96) 14dichlorobe | 15.19 | 146 | 1513 | N.D. | |
| 97) 12dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 98) nButylbenzen | 15.73 | 91 | 3072 | N.D. | |
| 99) 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568830.D Vial: 14
Acq On : 11 Apr 2025 14:06 Operator: RLD-DGS
Sample : 290584,1568830, Inst : VMS4
Misc : 4.95g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 14:26:59 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | |
| 103) Naphthalene | 18.25 | 128 | 12973 | N.D. | |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | |

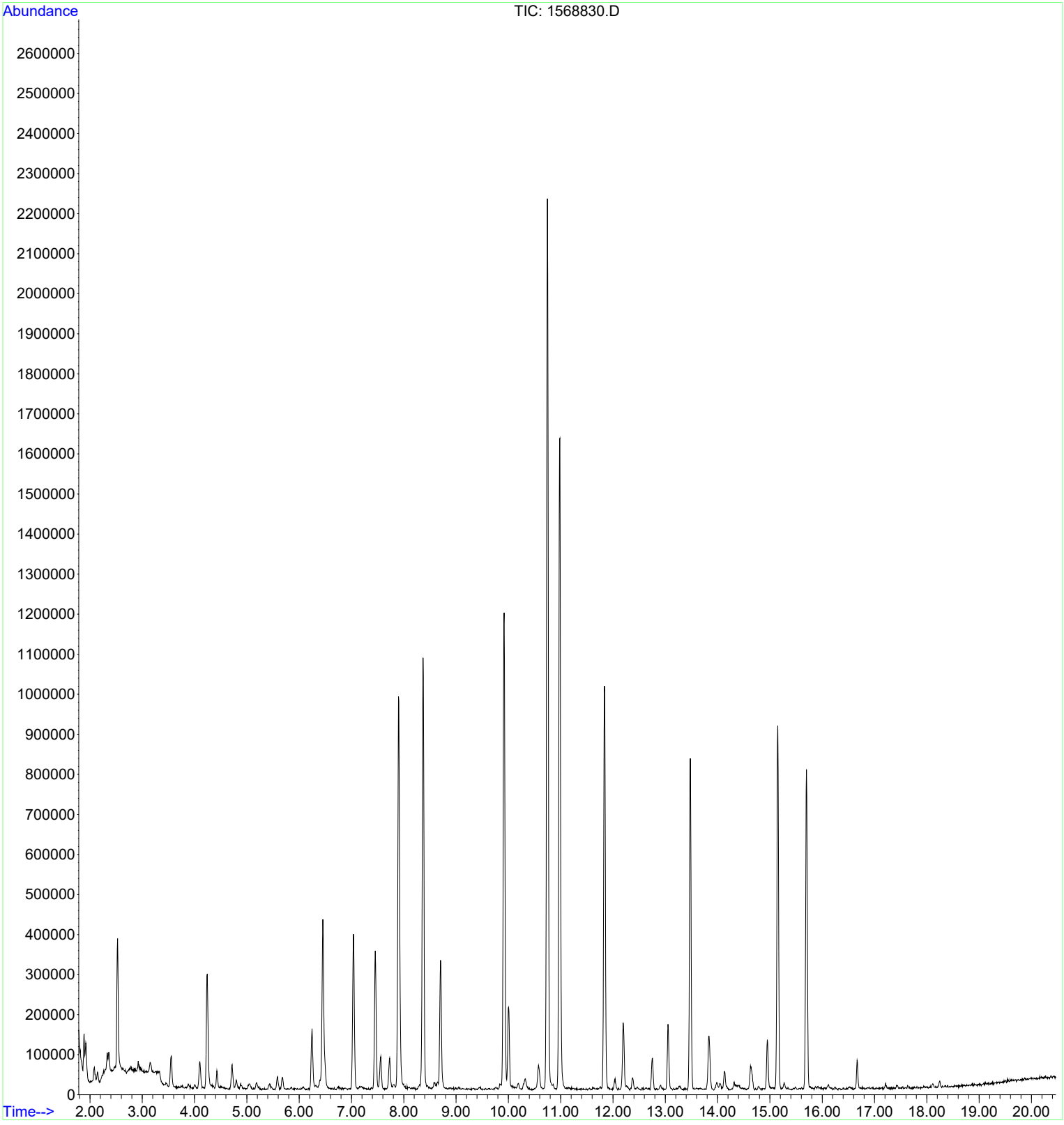
(#) = qualifier out of range (m) = manual integration

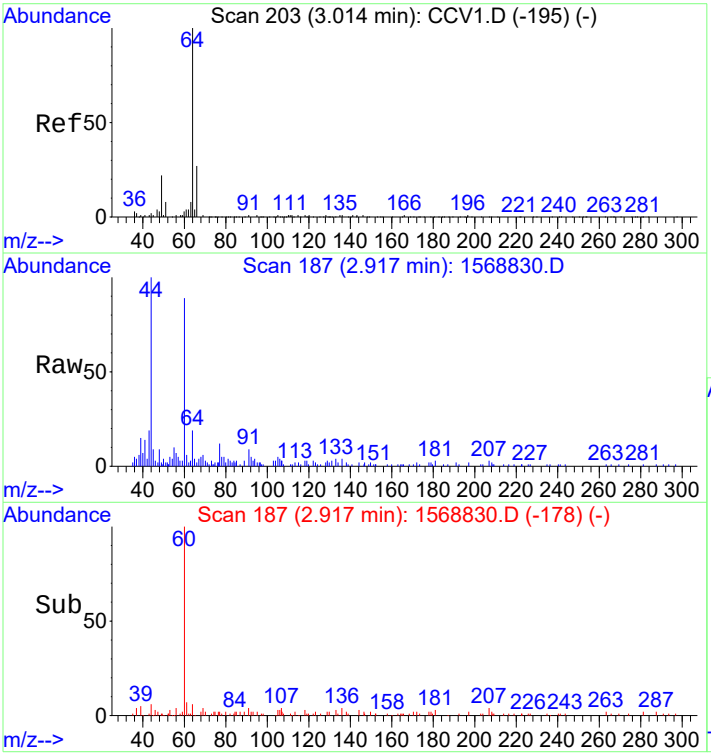
Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568830.D Vial: 14
Acq On : 11 Apr 2025 14:06 Operator: RLD-DGS
Sample : 290584,1568830, Inst : VMS4
Misc : 4.95g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 14:26:59 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

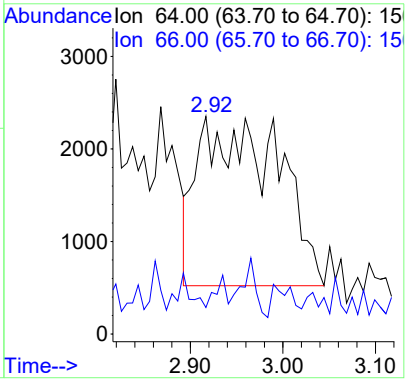




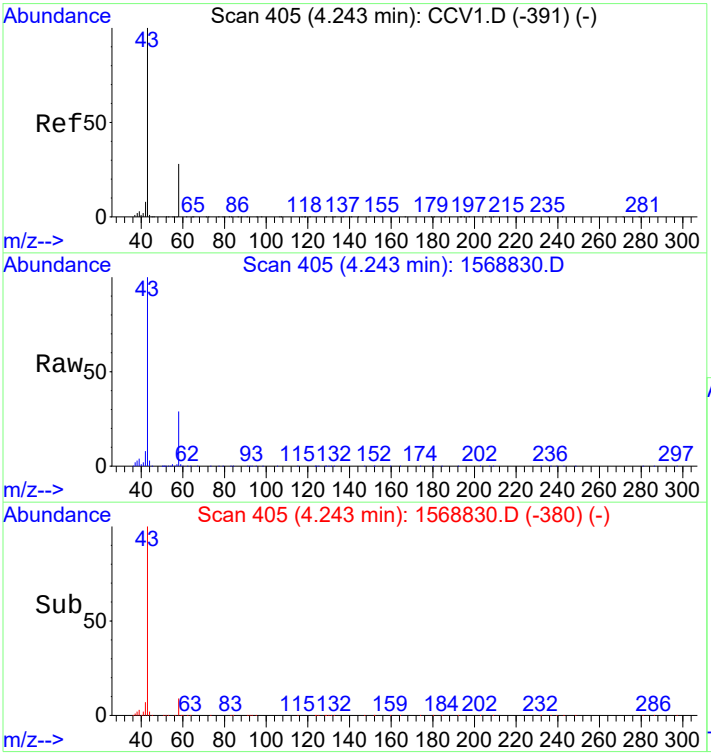

#6
Chloroethane
Concen: 0.00 mg/kg
RT: 2.92 min Scan# 187
Delta R.T. -0.10 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion: 64 Resp: 10873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 13.1 | 53.1# |



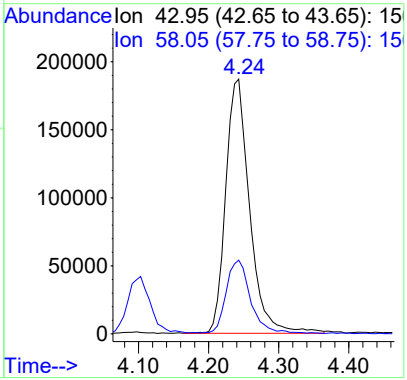

Negative Library Identification

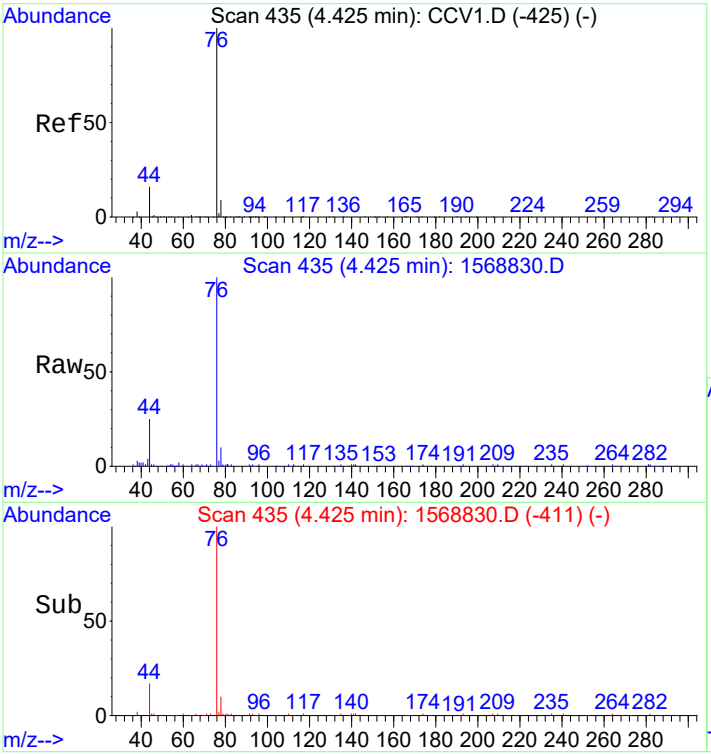



#15
Acetone
Concen: 0.11 mg/kg
RT: 4.24 min Scan# 405
Delta R.T. 0.00 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion: 43 Resp: 443050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.4 | 8.8 | 48.8 |

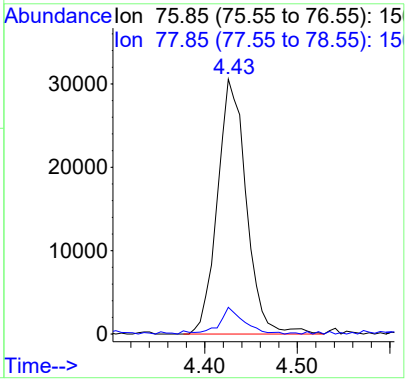


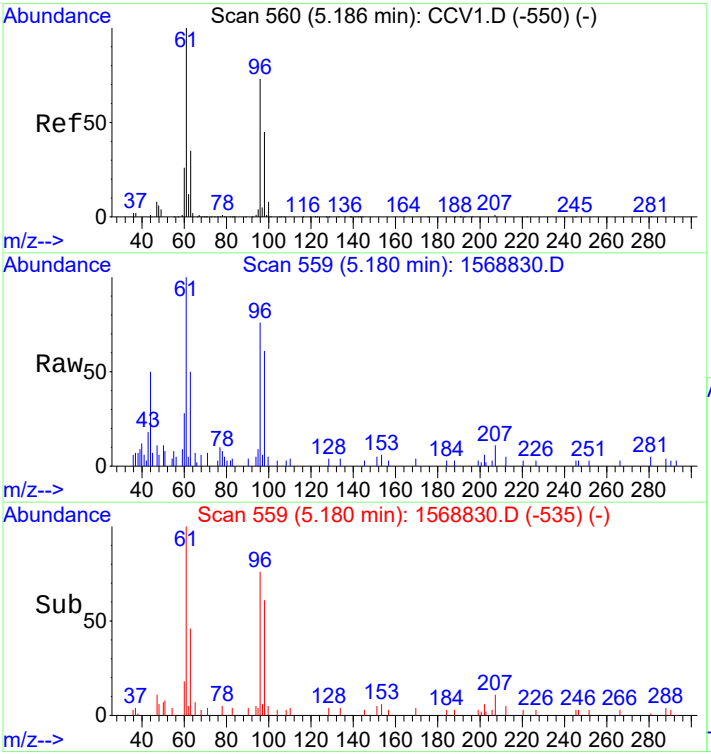



#17
Carbon Dislf
Concen: 0.00 mg/kg
RT: 4.43 min Scan# 435
Delta R.T. -0.01 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion: 76 Resp: 66405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 0.0 | 29.0 |

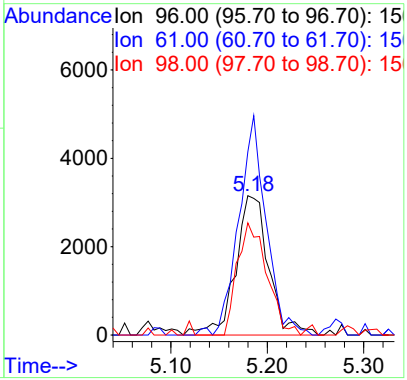


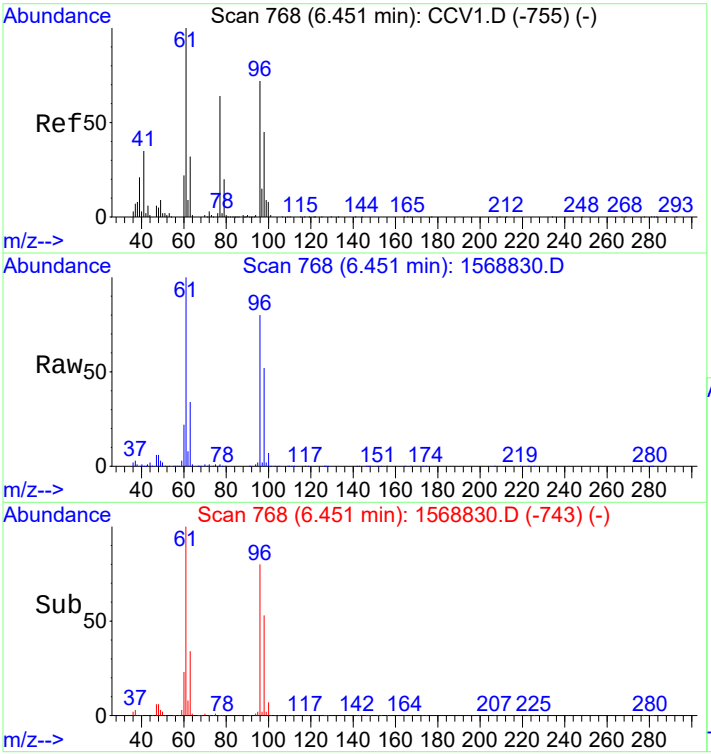




#22
t12dichlorte
Concen: 0.00 mg/kg
RT: 5.18 min Scan# 559
Delta R.T. -0.01 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion: 96 Resp: 7543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 130.3 | 114.5 | 154.5 |
| 98 | 72.0 | 40.5 | 80.5 |

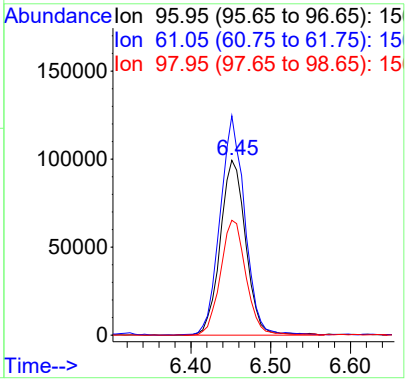


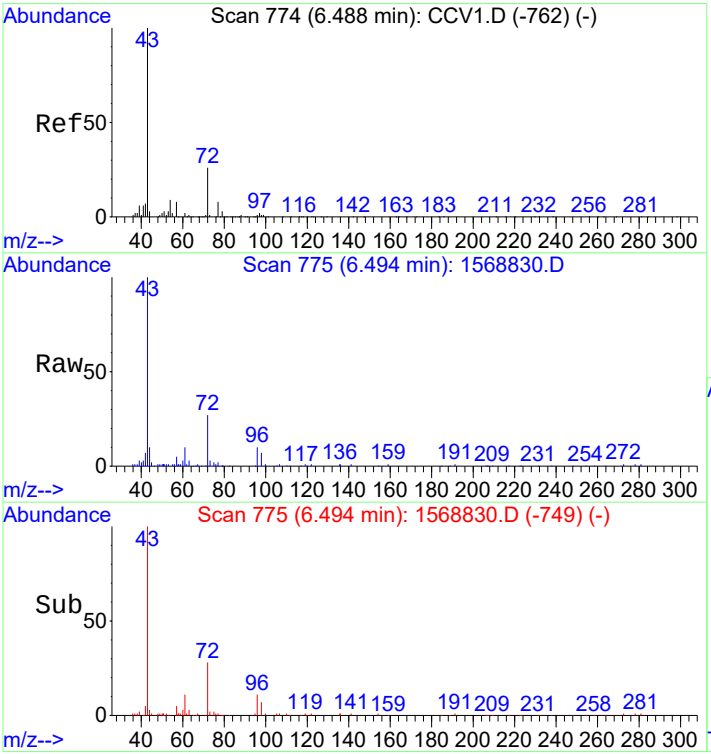



#32
c12dichlorte
Concen: 0.01 mg/kg
RT: 6.45 min Scan# 768
Delta R.T. 0.00 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion: 96 Resp: 221263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 121.5 | 123.9 | 163.9# |
| 98 | 65.9 | 44.6 | 84.6 |

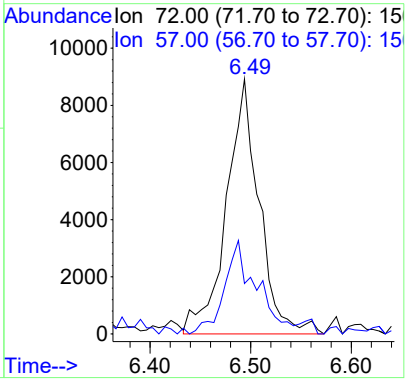


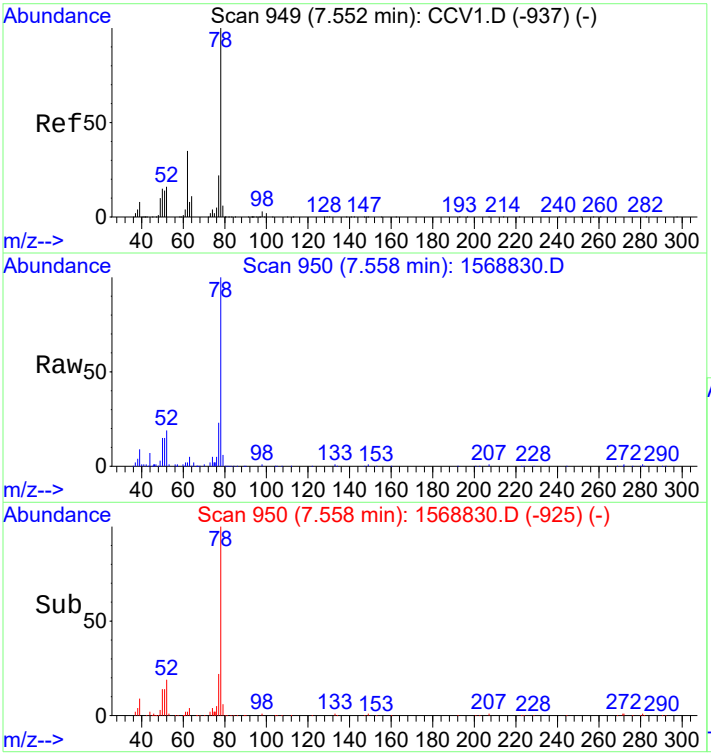




#33
2Butanone
Concen: 0.02 mg/kg
RT: 6.49 min Scan# 775
Delta R.T. 0.01 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion: 72 Resp: 20266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 38.6 | 10.5 | 50.5 |

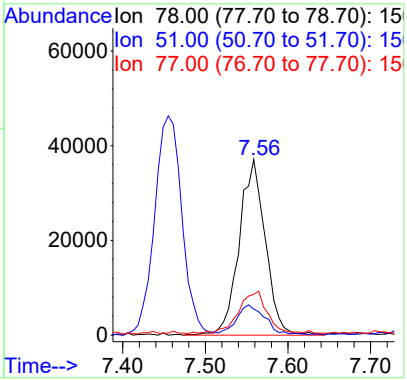


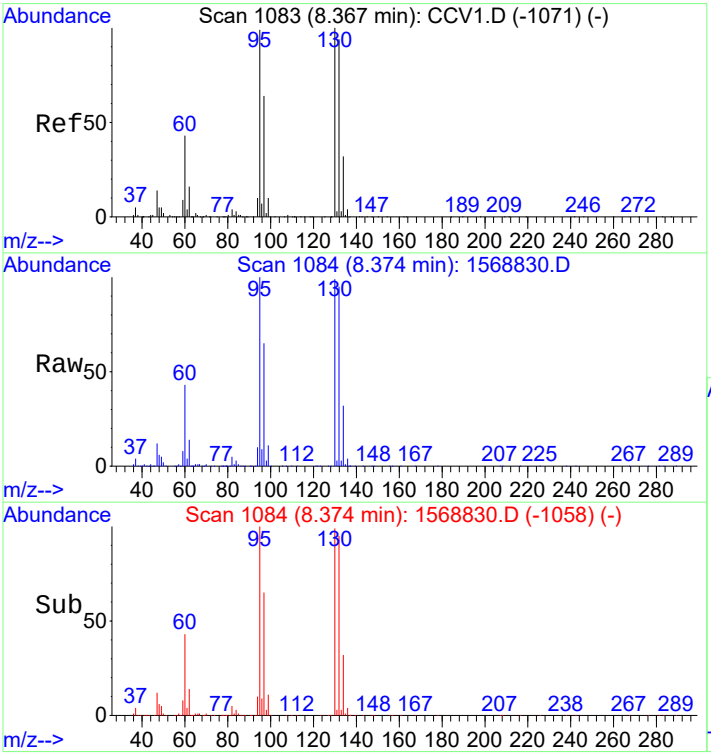



#46
Benzene
Concen: 0.00 mg/kg
RT: 7.56 min Scan# 950
Delta R.T. 0.00 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion: 78 Resp: 81714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 51 | 17.7 | 0.3 | 40.3 |
| 77 | 27.0 | 4.9 | 44.9 |

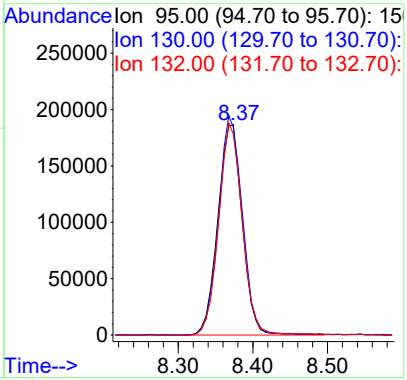


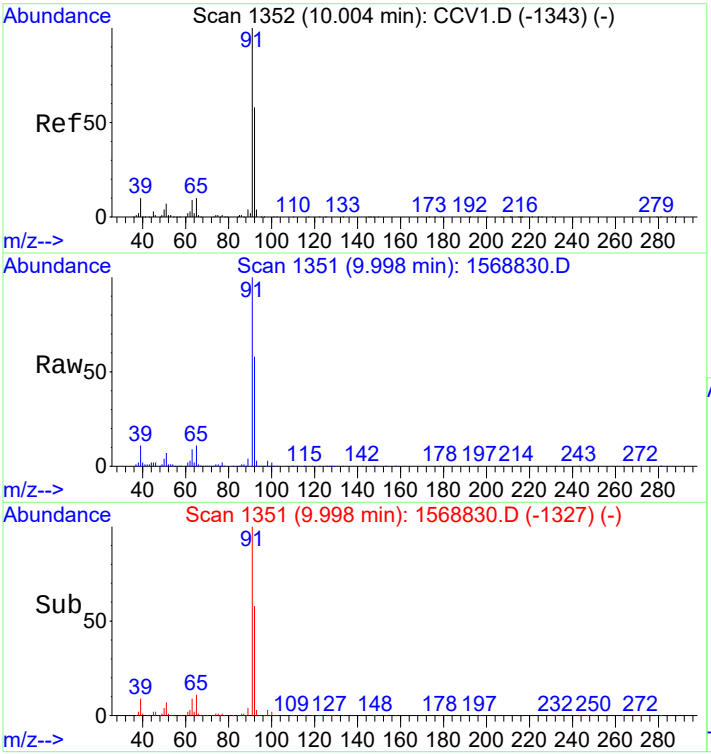




#49
trichloroete
Concen: 0.03 mg/kg
RT: 8.37 min Scan# 1084
Delta R.T. 0.01 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion: 95 Resp: 424910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 101.4 | 78.4 | 118.4 |
| 132 | 96.5 | 74.9 | 114.9 |

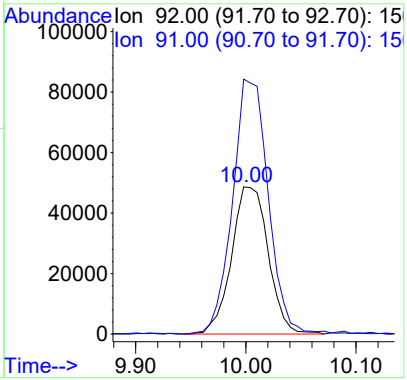


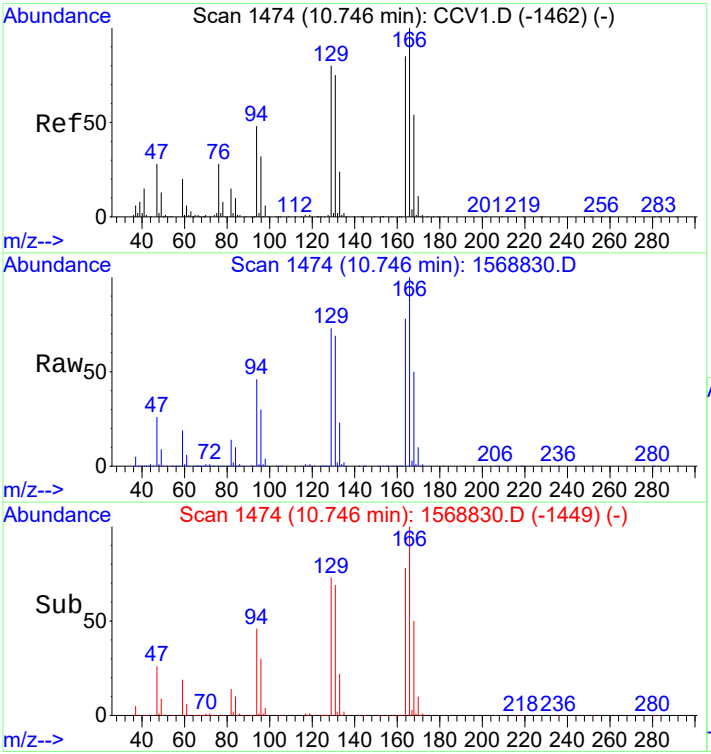



#61
Toluene
Concen: 0.00 mg/kg
RT: 10.00 min Scan# 1351
Delta R.T. -0.01 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion: 92 Resp: 112904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.2 | 148.0 | 188.0 |

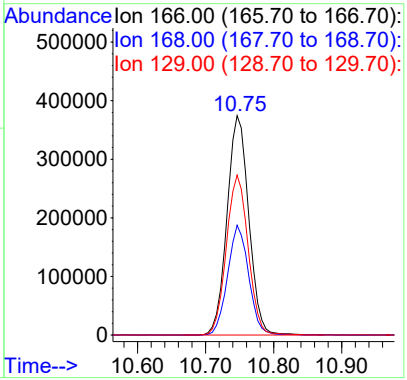


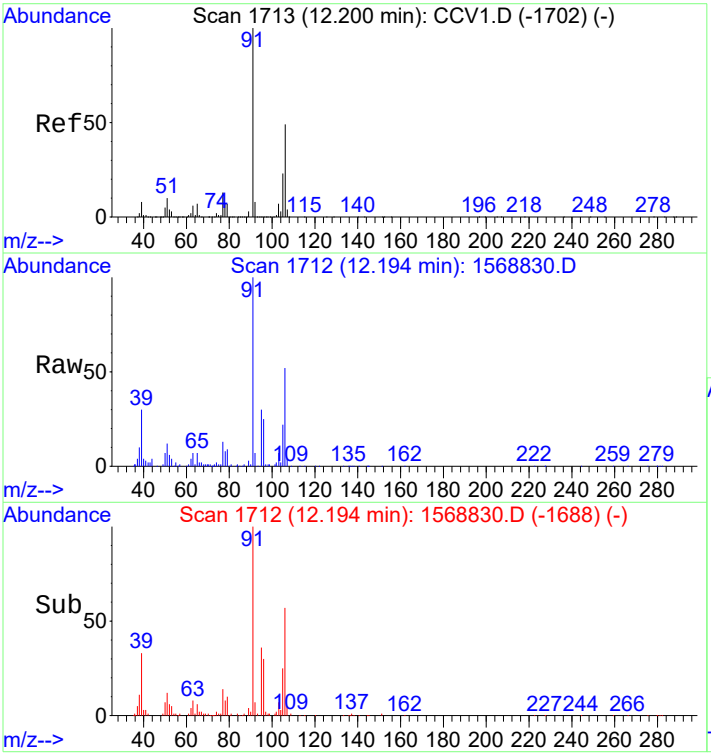




#65
Tetrachlorte
Concen: 0.05 mg/kg
RT: 10.75 min Scan# 1474
Delta R.T. 0.00 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion:166 Resp: 831255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 168 | 48.5 | 29.9 | 69.9 |
| 129 | 73.0 | 54.5 | 94.5 |

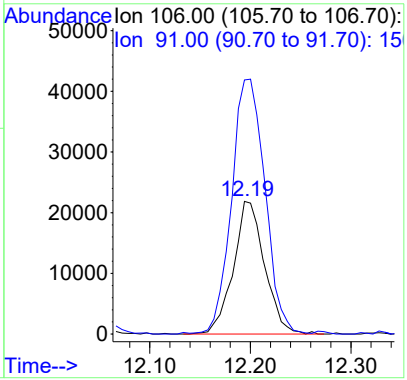


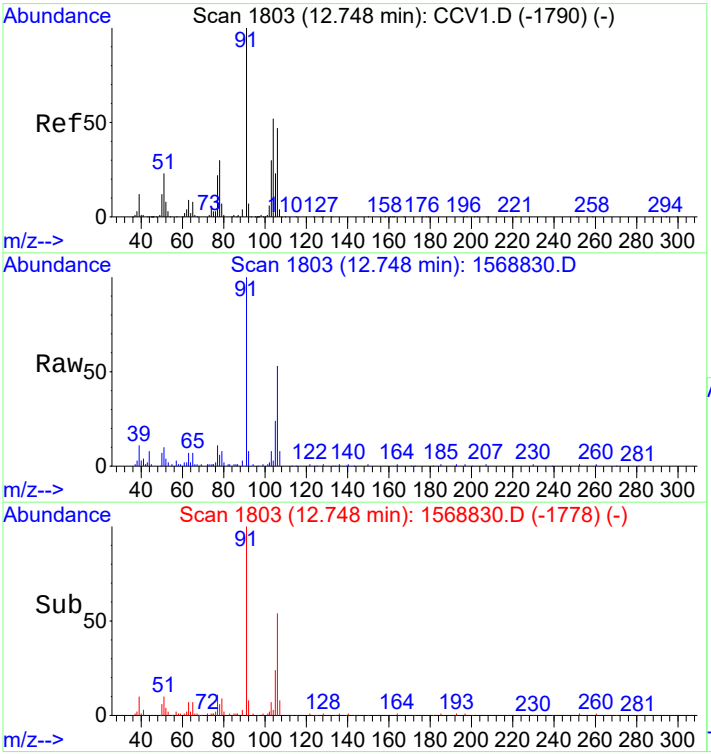



#75
m p-Xylene
Concen: 0.00 mg/kg
RT: 12.19 min Scan# 1712
Delta R.T. -0.01 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion:106 Resp: 47281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 205.5 | 183.2 | 223.2 |

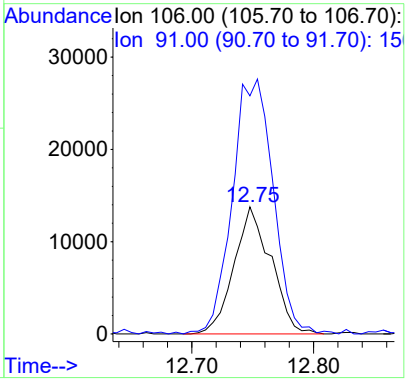


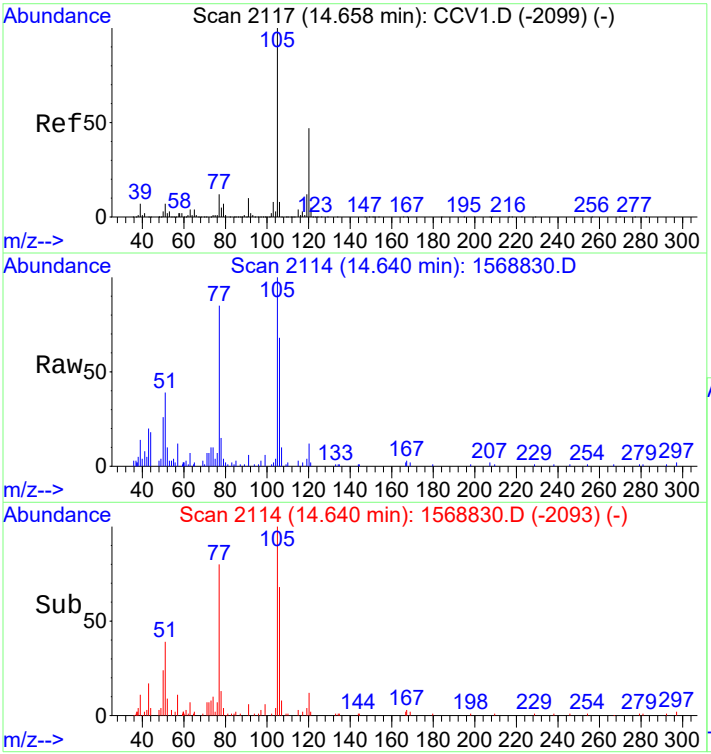




#76
o-Xylene
Concen: 0.00 mg/kg
RT: 12.75 min Scan# 1803
Delta R.T. 0.00 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion:106 Resp: 29073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 221.7 | 196.2 | 236.2 |

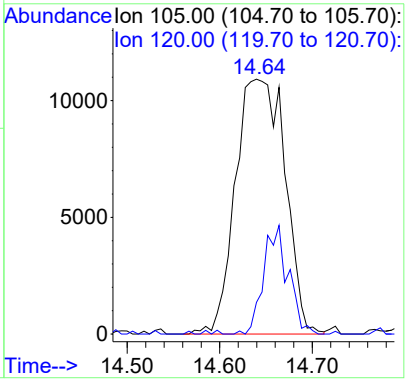





#92
124Trimetben
Concen: 0.00 mg/kg
RT: 14.64 min Scan# 2114
Delta R.T. -0.02 min
Lab File: 1568830.D
Acq: 11 Apr 2025 14:06

Tgt Ion:105 Resp: 40622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 21.2 | 25.8 | 65.8# |




Negative Library Identification

Library Search Compound Report

Data Path : C:\Instarch\Data\APR1125\
Data File : 1568830.D
Acq On : 11 Apr 2025 14:06
Operator : RLD-DGS
Sample : 290584,1568830,
Misc : 4.95g, 15.0 ml DI H2O Purged + IS/SS
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method

TIC Library : C:\DATABASE\NBS75K.L
TIC Integration Parameters: VOC.P

**********

Peak Number 1 3-Furanmethanol Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 1.89 | 0.00 mg/kg | 341228 | FLUOROBENZENE**IS | 2449770 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Furanmethanol | 98 | C5H6O2 | 004412-91-3 | 83 |
| 2 | Cyclopropanecarboxylic acid | 86 | C4H6O2 | 001759-53-1 | 83 |
| 3 | 2-Butenal, (E)- | 70 | C4H6O | 000123-73-9 | 78 |
| 4 | 3(2H)-Pyridazinone, 4,5-dihydro-... | 112 | C5H8N2O | 005157-08-4 | 78 |
| 5 | 3-Butenoic acid | 86 | C4H6O2 | 000625-38-7 | 74 |

**********

Peak Number 2 Butane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.36 | 0.01 mg/kg | 617961 | FLUOROBENZENE**IS | 2449770 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane | 58 | C4H10 | 000106-97-8 | 16 |
| 2 | 3-Oxetanol, 2,2,3-trimethyl- | 116 | C6H12O2 | 025910-96-7 | 9 |
| 3 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 9 |
| 4 | trans-2,3-Epoxynonane | 142 | C9H18O | 056820-01-0 | 9 |
| 5 | 1-Propanol, 2-methyl- | 74 | C4H10O | 000078-83-1 | 9 |

**********

Peak Number 3 Acetaldehyde Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.53 | 0.02 mg/kg | 2774940 | FLUOROBENZENE**IS | 2449770 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 9 |
| 2 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 9 |
| 3 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 9 |
| 4 | Ethylene oxide | 44 | C2H4O | 000075-21-8 | 5 |
| 5 | Propane | 44 | C3H8 | 000074-98-6 | 4 |

**********

Peak Number 4 Pentane Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 3.56 | 0.00 mg/kg | 273782 | FLUOROBENZENE**IS | 2449770 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 80 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 80 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 80 |
| 4 | Oxirane, ethyl- | 72 | C4H8O | 000106-88-7 | 50 |
| 5 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 33 |

**********

Peak Number 5 Propanal Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 4.10 | 0.00 mg/kg | 165839 | FLUOROBENZENE**IS | 2449770 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanal | 58 | C3H6O | 000123-38-6 | 64 |
| 2 | Propanal | 58 | C3H6O | 000123-38-6 | 50 |
| 3 | 2-Propanamine, 2-methyl- | 73 | C4H11N | 000075-64-9 | 39 |
| 4 | N-Methyl-3,4-methylenedioxyamphe... | 193 | C11H15NO2 | 000000-00-0 | 9 |
| 5 | Propanal | 58 | C3H6O | 000123-38-6 | 9 |

**********

Peak Number 6 Acetic acid, methyl ester Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 4.72 | 0.00 mg/kg | 152543 | FLUOROBENZENE**IS | 2449770 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 59 |
| 2 | Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 59 |
| 3 | Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 59 |
| 4 | Acetic acid, methyl ester | 74 | C3H6O2 | 000079-20-9 | 9 |
| 5 | Butanoic acid, methyl ester | 102 | C5H10O2 | 000623-42-7 | 9 |

**********

Peak Number 7 Butanal Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 6.24 | 0.00 mg/kg | 383931 | FLUOROBENZENE**IS | 2449770 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal | 72 | C4H8O | 000123-72-8 | 91 |
| 2 | Butanal | 72 | C4H8O | 000123-72-8 | 80 |
| 3 | Butanal | 72 | C4H8O | 000123-72-8 | 74 |
| 4 | Butanal | 72 | C4H8O | 000123-72-8 | 64 |
| 5 | Butanal | 72 | C4H8O | 000123-72-8 | 59 |

**********

Peak Number 8 Butanal, 3-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 7.73 | 0.00 mg/kg | 216846 | FLUOROBENZENE**IS | 2449770 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 94 |
| 2 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 87 |
| 3 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 59 |

| | | | | |
|---|---|---|---|---|
| 4 Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 53 |
| 5 Pentanal | 86 | C5H10O | 000110-62-3 | 43 |

**********

Peak Number 9 Pentanal Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 8.70 | 0.01 mg/kg | 770167 | FLUOROBENZENE**IS | 2449770 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanal | 86 | C5H10O | 000110-62-3 | 90 |
| 2 | Pentanal | 86 | C5H10O | 000110-62-3 | 78 |
| 3 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 64 |
| 4 | Pentanal | 86 | C5H10O | 000110-62-3 | 64 |
| 5 | Pentanal | 86 | C5H10O | 000110-62-3 | 64 |

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Peak Number 10 Cyclotrisiloxane, hexamethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.58 | 0.00 mg/kg | 171701 | d5-CHLOROBENZENE* | 2279840 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclotrisiloxane, hexamethyl- | 222 | C6H18O3Si3 | 000541-05-9 | 72 |
| 2 | Arsenous acid, tris(trimethylsil... | 342 | C9H27AsO3Si3 | 055429-29-3 | 72 |
| 3 | Silane, trimethyl[5-methyl-2-(1-... | 222 | C13H22OSi | 055012-80-1 | 56 |
| 4 | Cyclotrisiloxane, hexamethyl- | 222 | C6H18O3Si3 | 000541-05-9 | 46 |
| 5 | 1,2,4-Benzenetricarboxylic acid,... | 238 | C11H10O6 | 054699-35-3 | 36 |

**********

Peak Number 11 Hexanal Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 10.98 | 0.03 mg/kg | 3633340 | d5-CHLOROBENZENE* | 2279840 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanal | 100 | C6H12O | 000066-25-1 | 81 |
| 2 | Hexanal | 100 | C6H12O | 000066-25-1 | 80 |
| 3 | Hexanal | 100 | C6H12O | 000066-25-1 | 70 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |
| 5 | Hexanal | 100 | C6H12O | 000066-25-1 | 64 |

**********

Peak Number 12 Heptanal Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 13.05 | 0.00 mg/kg | 357250 | d5-CHLOROBENZENE* | 2279840 | 11.84 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptanal | 114 | C7H14O | 000111-71-7 | 86 |
| 2 | Heptanal | 114 | C7H14O | 000111-71-7 | 70 |
| 3 | Heptanal | 114 | C7H14O | 000111-71-7 | 58 |
| 4 | Heptanal | 114 | C7H14O | 000111-71-7 | 40 |
| 5 | Hexanal, 3-methyl- | 114 | C7H14O | 019269-28-4 | 38 |

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Peak Number 13 Cyclotetrasiloxane, octamet... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 13.83 | 0.00 mg/kg | 378546 | d4-1,4-DICHLOROBE | 1958190 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 | 80 |
| 2 | Cyclotetrasiloxane, octamethyl- | 296 | C8H24O4Si4 | 000556-67-2 | 49 |
| 3 | 3,6-Bis(N-dimethylamino)-9-ethyl... | 281 | C18H23N3 | 057103-04-5 | 47 |
| 4 | Ethanethioic acid, S-[8-(diethyl... | 324 | C14H29O4PS | 000000-00-0 | 33 |
| 5 | 2-Oxo-4-phenyl-6-(4-chlorophenyl... | 282 | C16H11ClN2O | 000000-00-0 | 9 |

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Peak Number 14 2-Heptanone, 6-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.13 | 0.00 mg/kg | 123009 | d4-1,4-DICHLOROBE | 1958190 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 93 |
| 2 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 81 |
| 3 | 2-Heptanone, 6-methyl- | 128 | C8H16O | 000928-68-7 | 74 |
| 4 | 2-Dimethylamino-4'-methoxyacetop... | 193 | C11H15NO2 | 053250-07-0 | 53 |
| 5 | 2-Heptanone | 114 | C7H14O | 000110-43-0 | 53 |

**********

Peak Number 15 Carbamic acid, nitrosopropy... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.32 | 0.00 mg/kg | 126647 | d4-1,4-DICHLOROBE | 1958190 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Carbamic acid, nitrosopropyl-, e... | 160 | C6H12N2O3 | 019935-86-5 | 22 |
| 2 | Furan, tetrahydro-2,5-dimethyl-,... | 100 | C6H12O | 002144-41-4 | 22 |
| 3 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 12 |
| 4 | Furan, tetrahydro-2,5-dimethyl- | 100 | C6H12O | 001003-38-9 | 12 |
| 5 | Nonanedioic acid, dihexyl ester | 356 | C21H40O4 | 000109-31-9 | 12 |

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Peak Number 16 Octanal Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 14.95 | 0.00 mg/kg | 280025 | d4-1,4-DICHLOROBE | 1958190 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octanal | 128 | C8H16O | 000124-13-0 | 91 |
| 2 | Octanal | 128 | C8H16O | 000124-13-0 | 78 |
| 3 | 2-Hexen-1-ol, (E)- | 100 | C6H12O | 000928-95-0 | 35 |
| 4 | 2-Nonen-1-ol, (E)- | 142 | C9H18O | 031502-14-4 | 27 |
| 5 | 1,3-Cyclopentanediol, trans- | 102 | C5H10O2 | 016326-98-0 | 25 |

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Peak Number 17 Benzene-1,2,3,4-d4-, 5,6-di... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 15.70 | 0.02 mg/kg | 1812660 | d4-1,4-DICHLOROBE | 1958190 | 15.15 |



| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| 1 | Benzene-1,2,3,4-d4-, 5,6-dichloro- | 150 | C6Cl2D4 | 002199-69-1 | 96 |
| 2 | 1,4-Dichlorobenzene-d4 | 150 | C6Cl2D4 | 003855-82-1 | 94 |
| 3 | Benzaldehyde, 2-hydroxy-3-methoxy- | 152 | C8H8O3 | 000148-53-8 | 35 |
| 4 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 10 |
| 5 | 2H-1-Benzopyran-3-ol, 3,4-dihydro- | 150 | C9H10O2 | 021834-60-6 | 9 |

**********

Peak Number 18 Nonanal Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 16.67 | 0.00 mg/kg | 161513 | d4-1,4-DICHLOROBE | 1958190 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonanal | 142 | C9H18O | 000124-19-6 | 91 |
| 2 | Nonanal | 142 | C9H18O | 000124-19-6 | 83 |
| 3 | Nonanal | 142 | C9H18O | 000124-19-6 | 80 |
| 4 | Butane, 1-isocyanato- | 99 | C5H9NO | 000111-36-4 | 22 |
| 5 | 5-Methyl-2-hexene,c&t | 98 | C7H14 | 003404-62-4 | 22 |

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Peak Number 19 7-Hydroxy-7,8,9,10-tetramet... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 19.87 | 0.01 mg/kg | 1078570 | d4-1,4-DICHLOROBE | 1958190 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 7-Hydroxy-7,8,9,10-tetramethyl-7... | 252 | C18H20O | 000000-00-0 | 32 |
| 2 | 3,3-Diethoxy-1,1,1,5,5,5-hexamet... | 296 | C10H28O4Si3 | 000000-00-0 | 25 |
| 3 | Methanol, [4-(1,1-dimethylethyl)... | 222 | C13H18O3 | 054889-98-4 | 22 |
| 4 | 1H-Indole, 5-methyl-2-phenyl- | 207 | C15H13N | 013228-36-9 | 12 |
| 5 | (1H)Pyrrole-3-carboxylic acid, 5... | 293 | C14H19N3O4 | 000000-00-0 | 12 |

LS041025.M Mon Apr 14 13:53:28 2025

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\1568827.D Vial: 11
Acq On : 14 Apr 2025 12:18 Operator: RLD-DGS
Sample : 290576,1568827, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 12:39:30 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1161410 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 862869 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 421574 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 286550 | 3.951 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 48590 | 3.914 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 98 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1168581 | 4.034 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 101 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 380669 | 4.016 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 3755 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 6) Chloroethane | 2.98 | 64 | 7422 | 0.1197 | ug/L # | 42 |
| 7) Dichloroflmethane | 0.00 | 67 | 0 | N.D. | | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 0.00 | 58 | 0 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.24 | 43 | 5493 | N.D. | | |
| 16) Iodomethane | 0.00 | 142 | 0 | N.D. | | |
| 17) Carbon Dislf | 4.44 | 76 | 3817 | N.D. | | |
| 18) allylchloride | 0.00 | 41 | 0 | N.D. | | |
| 19) methylacetate | 0.00 | 74 | 0 | N.D. | | |
| 20) Methylchlorid | 4.80 | 84 | 14529 | 0.1742 | ug/L | 95 |
| 21) tbutylalcohol | 0.00 | 59 | 0 | N.D. | | |
| 22) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 23) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 0.00 | 77 | 0 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 0.00 | 42 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\1568827.D Vial: 11
Acq On : 14 Apr 2025 12:18 Operator: RLD-DGS
Sample : 290576,1568827, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 12:39:30 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 0.00 | 78 | 0 | N.D. | |
| 47) | 12dichlorota | 0.00 | 62 | 0 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23Dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 0.00 | 43 | 0 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 0.00 | 43 | 0 | N.D. | |
| 61) | Toluene | 0.00 | 92 | 0 | N.D. | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 0.00 | 43 | 0 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 0.00 | 91 | 0 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 0.00 | 91 | 0 | N.D. | |
| 75) | m p-Xylene | 0.00 | 106 | 0 | N.D. | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | |
| 80) | cyclohexanone | 0.00 | 55 | 0 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 0.00 | 91 | 0 | N.D. | |
| 88) | 2chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 90) | 135Trimebenz | 0.00 | 105 | 0 | N.D. | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | |
| 92) | 124Trimetben | 0.00 | 105 | 0 | N.D. | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) | pIsopropylto | 0.00 | 119 | 0 | N.D. | |
| 96) | 14dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 98) | nButylbenzen | 0.00 | 91 | 0 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\1568827.D Vial: 11
Acq On : 14 Apr 2025 12:18 Operator: RLD-DGS
Sample : 290576,1568827, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 12:39:30 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) Naphthalene | 0.00 | 128 | 0 | N.D. | | |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

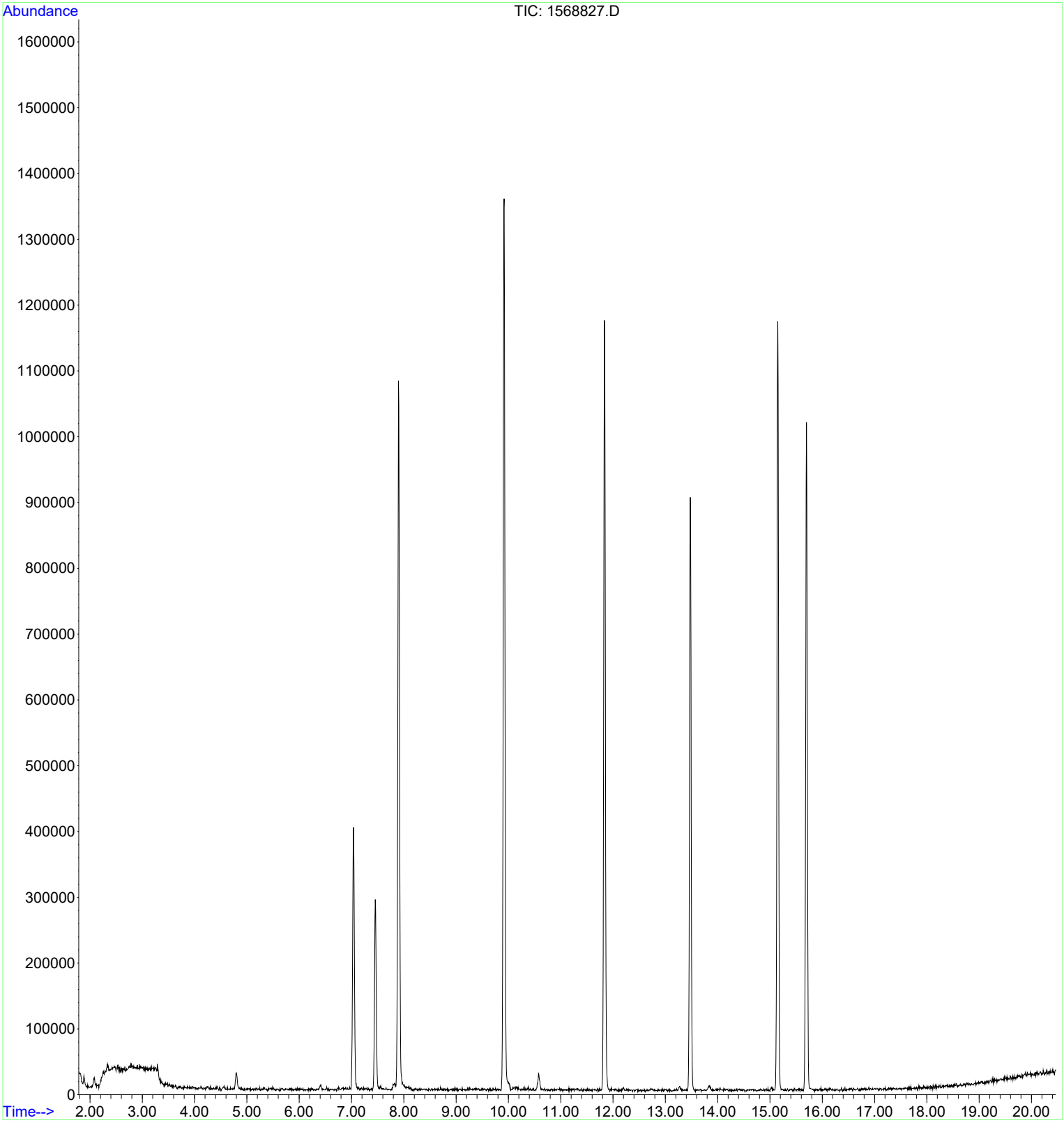
(#) = qualifier out of range (m) = manual integration

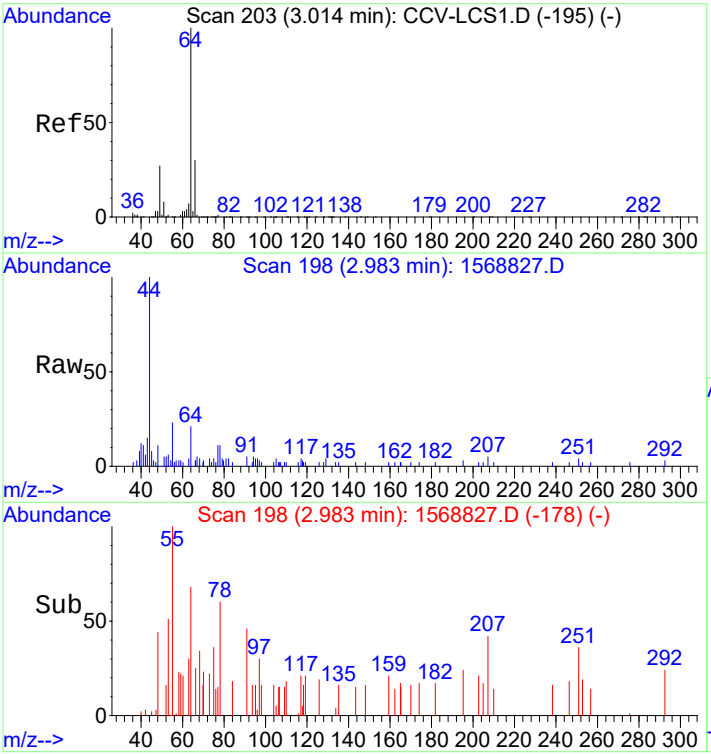
Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\1568827.D Vial: 11
Acq On : 14 Apr 2025 12:18 Operator: RLD-DGS
Sample : 290576,1568827, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 12:39:30 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

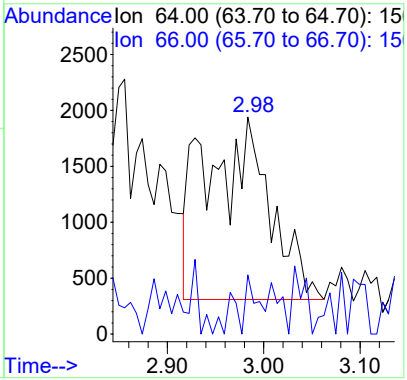




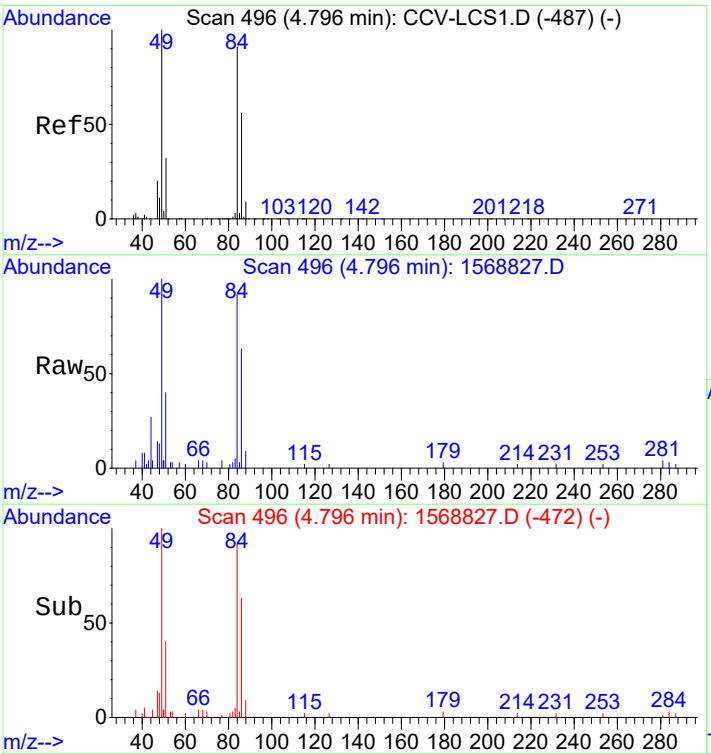

#6
Chloroethane
Concen: 0.12 ug/L
RT: 2.98 min Scan# 198
Delta R.T. -0.03 min
Lab File: 1568827.D
Acq: 14 Apr 2025 12:18

Tgt Ion: 64 Resp: 7422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 12.5 | 52.5# |



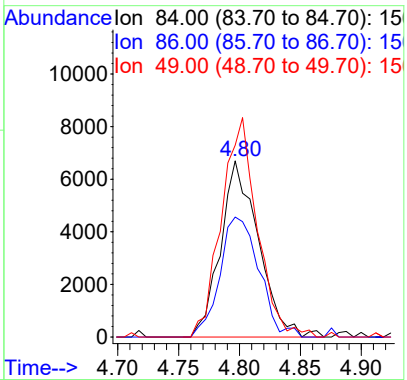

Negative Library Identification




#20
Methylchlorid
Concen: 0.17 ug/L
RT: 4.80 min Scan# 496
Delta R.T. -0.01 min
Lab File: 1568827.D
Acq: 14 Apr 2025 12:18

Tgt Ion: 84 Resp: 14529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 70.4 | 43.2 | 83.2 |
| 49 | 117.6 | 100.7 | 140.7 |




<LOD

Data Path : C:\Instarch\Data\APR1425\
Data File : 1568827.D
Acq On : 14 Apr 2025 12:18
Operator : RLD-DGS
Sample : 290576,1568827,
Misc : pH<2, 25.0 ml Purged + IS/SS
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\INSTARCH\METHODS\LW041325.M
Quant Title : 8260C Waters Method

TIC Library : C:\DATABASE\NBS75K.L
TIC Integration Parameters: VOC.P

**********

Peak Number 1 Ethyl Chloride Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.79 | 3.75 ug/L | 2357600 | FLUOROBENZENE**IS | 2512690 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethyl Chloride | 64 | C2H5Cl | 000075-00-3 | 43 |
| 2 | L-Alanine, methyl ester | 103 | C4H9NO2 | 010065-72-2 | 9 |
| 3 | Phenol, 4-(2-aminopropyl)-, (.+/... | 151 | C9H13NO | 001518-86-1 | 9 |
| 4 | L-Alanine, methyl ester | 103 | C4H9NO2 | 010065-72-2 | 9 |
| 5 | Ethanamine, N-methyl-2-[(2-methy... | 255 | C17H21NO | 015301-93-6 | 9 |

**********

Peak Number 2 1,4-Dichlorobenzene-d4 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 15.70 | 3.58 ug/L | 2230570 | d4-1,4-DICHLOROBE | 2495350 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 150 | C6Cl2D4 | 003855-82-1 | 97 |
| 2 | Benzene-1,2,3,4-d4-, 5,6-dichloro- | 150 | C6Cl2D4 | 002199-69-1 | 95 |
| 3 | Benzaldehyde, 2-hydroxy-3-methoxy- | 152 | C8H8O3 | 000148-53-8 | 35 |
| 4 | 2H-1-Benzopyran-3-ol, 3,4-dihydro- | 150 | C9H10O2 | 021834-60-6 | 9 |
| 5 | Biphenylene | 152 | C12H8 | 000259-79-0 | 9 |

**********

Peak Number 3 1H-Indole, 2-methyl-3-phenyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 19.92 | 1.74 ug/L | 1087940 | d4-1,4-DICHLOROBE | 2495350 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indole, 2-methyl-3-phenyl- | 207 | C15H13N | 004757-69-1 | 35 |
| 2 | 3,3-Diethoxy-1,1,1,5,5,5-hexamet... | 296 | C10H28O4Si3 | 000000-00-0 | 33 |
| 3 | 1,1,1,3,5,5,5-Heptamethyltrisilo... | 222 | C7H22O2Si3 | 001873-88-7 | 25 |
| 4 | 1,4-Benzenediol, 2,5-bis(1,1-dim... | 222 | C14H22O2 | 000088-58-4 | 17 |
| 5 | 1,2-Bis(trimethylsilyl)benzene | 222 | C12H22Si2 | 017151-09-6 | 13 |

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\1568824.D Vial: 25
Acq On : 14 Apr 2025 18:58 Operator: RLD-DGS
Sample : 290576,1568824, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 19:19:00 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1151510 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 839307 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 413482 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 280408 | 3.899 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 97 | % | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 49371 | 4.011 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1147400 | 3.995 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 375314 | 4.037 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 101 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 4171 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 6) Chloroethane | 2.97 | 64 | 7060 | 0.1149 | ug/L # | 42 |
| 7) Dichloroflmethane | 0.00 | 67 | 0 | N.D. | | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 0.00 | 58 | 0 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.25 | 43 | 6371 | N.D. | | |
| 16) Iodomethane | 0.00 | 142 | 0 | N.D. | | |
| 17) Carbon Dislf | 4.43 | 76 | 2875 | N.D. | | |
| 18) allylchloride | 0.00 | 41 | 0 | N.D. | | |
| 19) methylacetate | 0.00 | 74 | 0 | N.D. | | |
| 20) Methylchlorid | 0.00 | 84 | 0 | N.D. | | |
| 21) tbutylalcohol | 0.00 | 59 | 0 | N.D. | | |
| 22) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 23) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.40 | 77 | 3382 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.88 | 42 | 4151 | 0.5958 | ug/L # | 31 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\1568824.D Vial: 25
Acq On : 14 Apr 2025 18:58 Operator: RLD-DGS
Sample : 290576,1568824, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 19:19:00 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 7.56 | 78 | 5362 | N.D. | |
| 47) | 12dichlorota | 0.00 | 62 | 0 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23Dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 0.00 | 43 | 0 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 0.00 | 43 | 0 | N.D. | |
| 61) | Toluene | 10.01 | 92 | 7711 | 0.0425 ug/L | 88 |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 0.00 | 43 | 0 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 0.00 | 91 | 0 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 12.03 | 91 | 2623 | N.D. | |
| 75) | m p-Xylene | 12.19 | 106 | 3810 | 0.0292 ug/L # | 75 |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | |
| 80) | cyclohexanone | 0.00 | 55 | 0 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 0.00 | 91 | 0 | N.D. | |
| 88) | 2chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 90) | 135Trimebenz | 0.00 | 105 | 0 | N.D. | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | |
| 92) | 124Trimetben | 14.66 | 105 | 2824 | N.D. | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) | pIsopropylto | 0.00 | 119 | 0 | N.D. | |
| 96) | 14dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 98) | nButylbenzen | 0.00 | 91 | 0 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\1568824.D Vial: 25
Acq On : 14 Apr 2025 18:58 Operator: RLD-DGS
Sample : 290576,1568824, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 19:19:00 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | | Qvalue |
|---|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 0.00 | 225 | 0 | N.D. | | | |
| 103) | Naphthalene | 18.25 | 128 | 5159 | 0.0622 | ug/L | # | 75 |
| 104) | 123Trichlben | 0.00 | 180 | 0 | N.D. | | | |

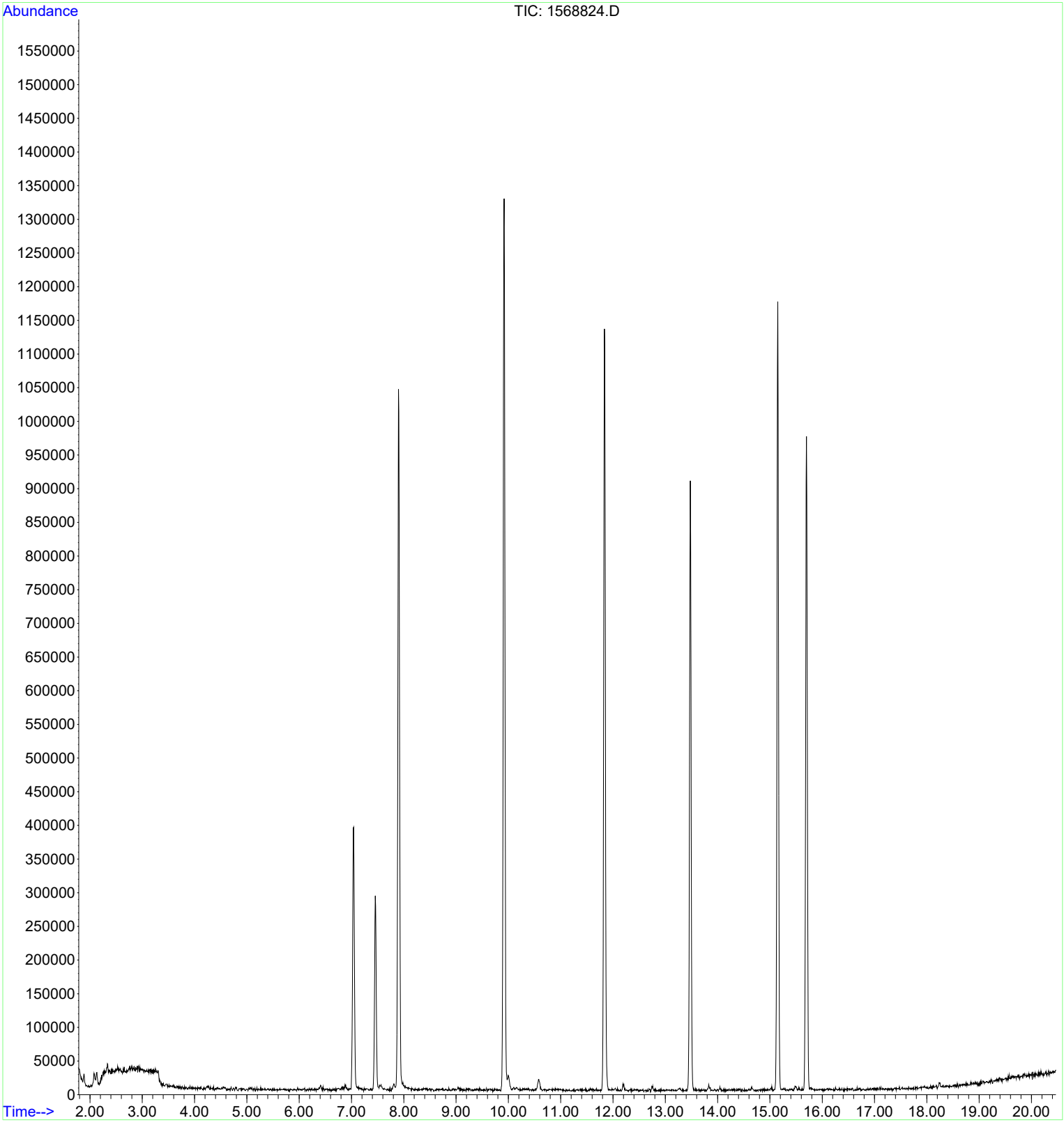
(#) = qualifier out of range (m) = manual integration

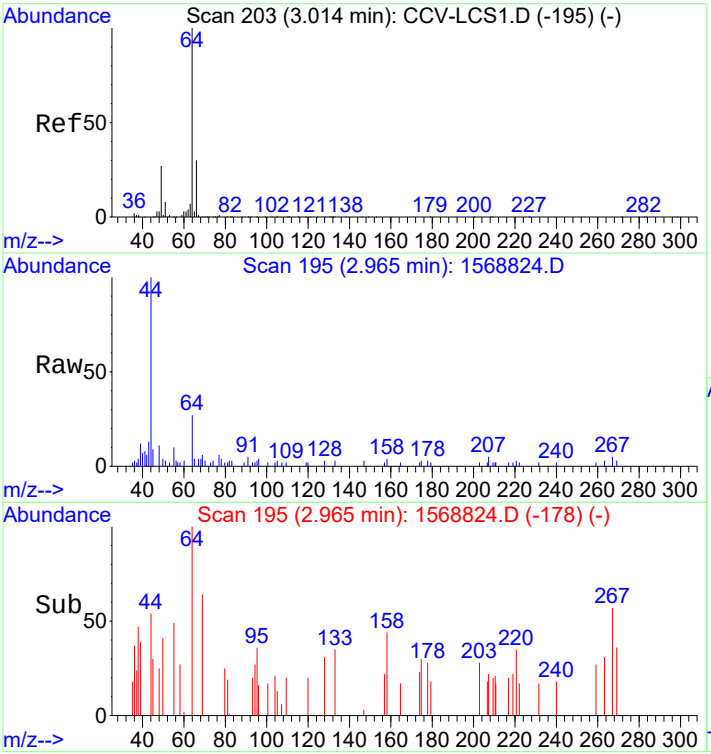
Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\1568824.D Vial: 25
Acq On : 14 Apr 2025 18:58 Operator: RLD-DGS
Sample : 290576,1568824, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 19:19:00 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

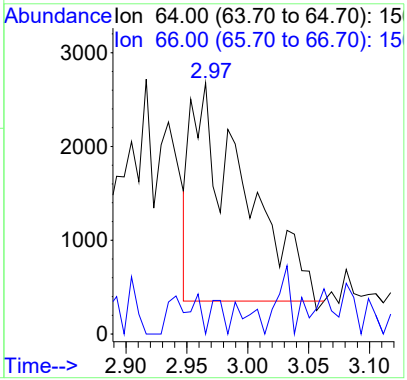




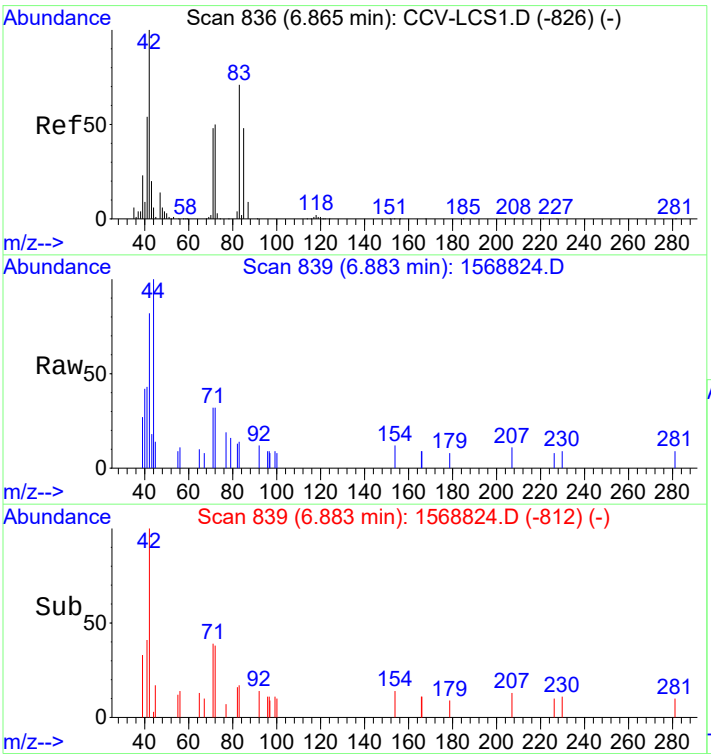

#6
Chloroethane
Concen: 0.11 ug/L
RT: 2.97 min Scan# 195
Delta R.T. -0.05 min
Lab File: 1568824.D
Acq: 14 Apr 2025 18:58

Tgt Ion: 64 Resp: 7060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 12.5 | 52.5# |



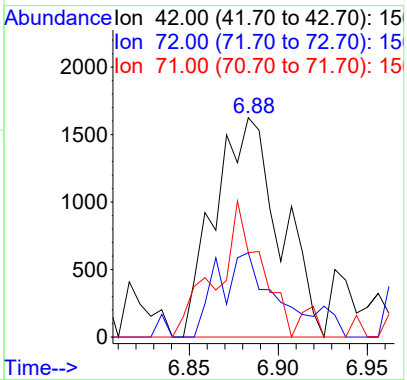

Negative Library Identification



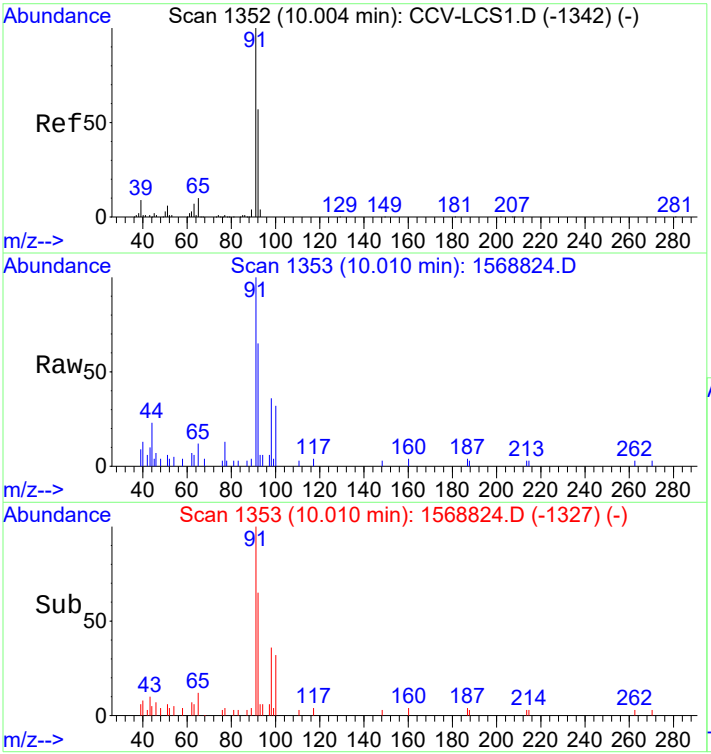

#38
Tetrahydofur
Concen: 0.60 ug/L
RT: 6.88 min Scan# 839
Delta R.T. 0.01 min
Lab File: 1568824.D
Acq: 14 Apr 2025 18:58

Tgt Ion: 42 Resp: 4151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 27.4 | 67.4# |
| 71 | 0.0 | 22.2 | 62.2# |



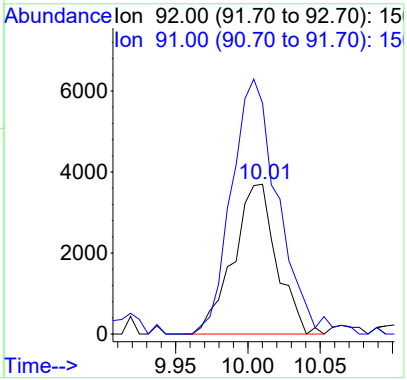

Negative Library Identification

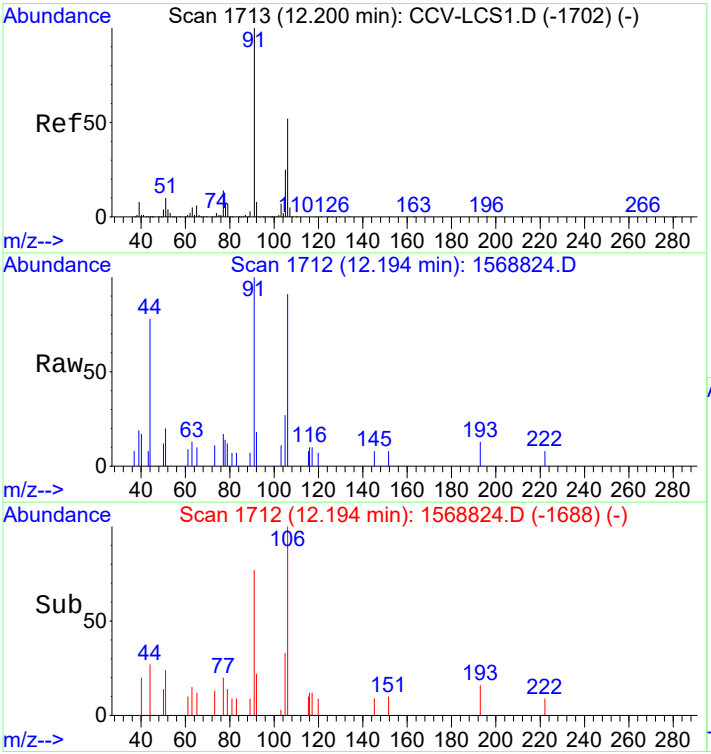



#61
Toluene
Concen: 0.04 ug/L
RT: 10.01 min Scan# 1353
Delta R.T. 0.01 min
Lab File: 1568824.D
Acq: 14 Apr 2025 18:58

Tgt Ion: 92 Resp: 7711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 184.1 | 147.6 | 187.6 |

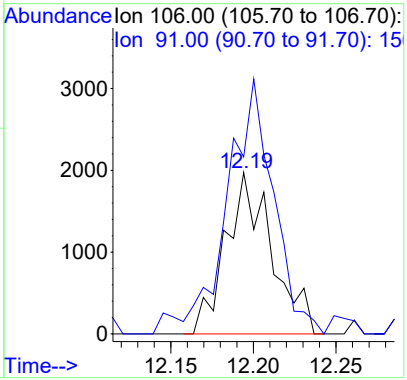


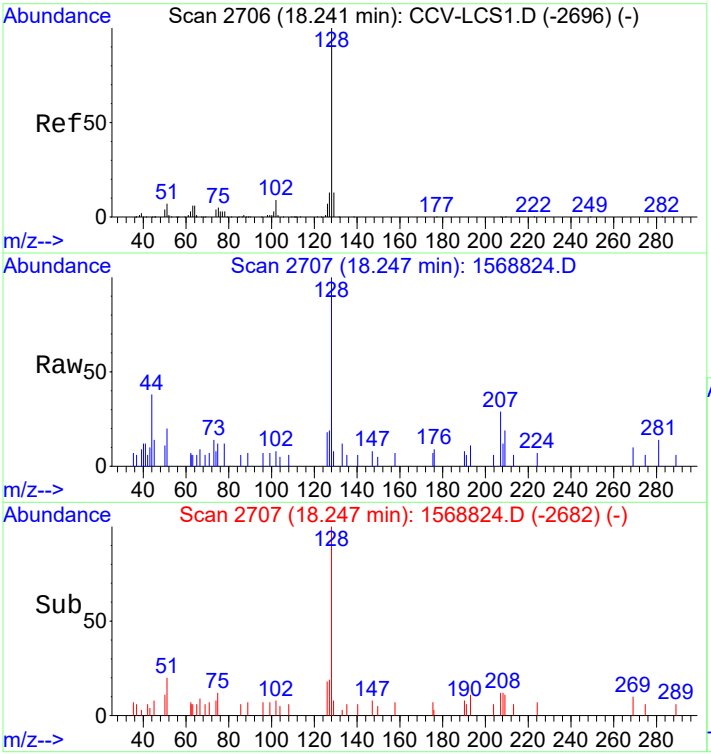

#75
m p-Xylene
Concen: 0.03 ug/L
RT: 12.19 min Scan# 1712
Delta R.T. -0.01 min
Lab File: 1568824.D
Acq: 14 Apr 2025 18:58

Tgt Ion:106 Resp: 3810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 160.9 | 177.8 | 217.8# |



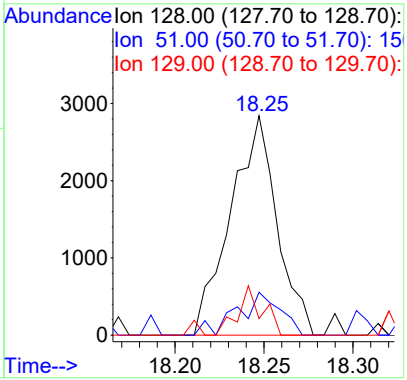

<LOD




#103
Naphthalene
Concen: 0.06 ug/L
RT: 18.25 min Scan# 2707
Delta R.T. -0.00 min
Lab File: 1568824.D
Acq: 14 Apr 2025 18:58

Tgt Ion:128 Resp: 5159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 51 | 0.0 | 0.0 | 26.7 |
| 129 | 0.0 | 0.0 | 30.4 |



Library Search Compound Report

Data Path : C:\Instarch\Data\APR1425\
Data File : 1568824.D
Acq On : 14 Apr 2025 18:58
Operator : RLD-DGS
Sample : 290576,1568824,
Misc : pH<2, 25.0 ml Purged + IS/SS
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\INSTARCH\METHODS\LW041325.M
Quant Title : 8260C Waters Method

TIC Library : C:\DATABASE\NBS75K.L
TIC Integration Parameters: VOC.P

**********
Peak Number 1 .beta.-D-Allofuranuronic ac... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 2.33 | 3.25 ug/L | 1997840 | FLUOROBENZENE**IS | 2459760 | 7.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .beta.-D-Allofuranuronic acid, 5... | 507 | C17H25N5O13 | 019396-06-6 | 38 |
| 2 | 2-Oxetanone, 4,4-dimethyl- | 100 | C5H8O2 | 001823-52-5 | 28 |
| 3 | 4-Pentenal, 2-methyl- | 98 | C6H10O | 005187-71-3 | 14 |
| 4 | Imidazole, 2-amino-5-[(2-carboxy... | 153 | C6H7N3O2 | 000000-00-0 | 12 |
| 5 | Cathine | 151 | C9H13NO | 000492-39-7 | 12 |

**********
Peak Number 2 Benzene-1,2,3,4-d4-, 5,6-di... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 15.70 | 3.55 ug/L | 2173530 | d4-1,4-DICHLOROBE | 2452300 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene-1,2,3,4-d4-, 5,6-dichloro- | 150 | C6Cl2D4 | 002199-69-1 | 97 |
| 2 | 1,4-Dichlorobenzene-d4 | 150 | C6Cl2D4 | 003855-82-1 | 95 |
| 3 | Benzofurazan, 5-methoxy- | 150 | C7H6N2O2 | 004413-48-3 | 9 |
| 4 | 2H-1-Benzopyran-3-ol, 3,4-dihydro- | 150 | C9H10O2 | 021834-60-6 | 9 |
| 5 | 9-Borabicyclo[3.3.1]nonane, 9-et... | 150 | C10H19B | 052102-17-7 | 9 |

**********
Peak Number 3 Arsenous acid, tris(trimeth... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | IS Area | R.T. |
|---|---|---|---|---|---|
| 19.87 | 2.12 ug/L | 1297160 | d4-1,4-DICHLOROBE | 2452300 | 15.15 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Arsenous acid, tris(trimethylsil... | 342 | C9H27AsO3Si3 | 055429-29-3 | 43 |
| 2 | 3,3-Diethoxy-1,1,1,5,5,5-hexamet... | 296 | C10H28O4Si3 | 000000-00-0 | 40 |
| 3 | Cyclotrisiloxane, hexamethyl- | 222 | C6H18O3Si3 | 000541-05-9 | 38 |
| 4 | Methyl (7-hydroxy(1H)benzimidazo... | 207 | C9H9N3O3 | 000000-00-0 | 27 |
| 5 | Cyclotrisiloxane, hexamethyl- | 222 | C6H18O3Si3 | 000541-05-9 | 25 |

LW041325.M Wed Apr 16 10:44:40 2025

# VOLATILE ORGANIC ANALYSIS
# INITIAL CALIBRATION
# DOCUMENTS

Method Path : C:\INSTARCH\METHODS\
Method File : PS032525.M
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response Via : Initial Calibration

04/03/2025

Calibration Files mg/kg
1 0.025/0.25 =CALS1.D 2 0.050/0.50 =CALS2.D 3 0.100/1.00 =CALS3.D
4 0.250/2.50 =CALS4.D 5 0.500/5.00 =CALS5.D 6 1.00/10.00 =CALS6.D
7 1.50/15.00 =CALS7.D 8 2.00/20.00 =CALS8.D 9 4.00/40.00 =CALS9.D

| | | Compound | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 8 | 9 | | | | | | | |
| 1) | I | FLUOROBENZENE**ISTD** | ----------ISTD---------- | | | | | | | | |
| 2) | T | Dichlorodi | 0.268 | 0.267 | 0.285 | 0.297 | 0.294 | 0.307 | 0.288 | 0.284 | 5.04 |
| | | | 0.276 | 0.271 | | | | | | | |
| 3) | PT | Chloromethan | 0.477 | 0.394 | 0.444 | 0.413 | 0.402 | 0.402 | 0.378 | 0.403 | 9.67 |
| | | | 0.371 | 0.346 | | | | | | | |
| 4) | CT | VinylChlorid | 0.331 | 0.297 | 0.314 | 0.315 | 0.374 | 0.382 | 0.385 | 0.349 | 9.83 |
| | | | 0.379 | 0.361 | | | | | | | |
| 5) | T | Bromomethane | | 0.228 | 0.216 | 0.155 | 0.123 | 0.112 | 0.110 | ----- | |
| | | | 0.103 | 0.091 | | | | | | | |
| | | | | | | | | Q | A= -0.005 R=1.000 | | |
| | | | | | | | | | B= 0.110 | | |
| | | | | | | | | | C= 0.009 | | |
| 6) | T | Chloroethane | 0.066 | 0.075 | 0.075 | 0.067 | 0.060 | 0.062 | 0.058 | 0.064 | 11.84 |
| | | | 0.057 | 0.054 | | | | | | | |
| 7) | T | dichloroflmetha | 0.159 | 0.397 | 0.526 | 0.321 | 0.482 | 0.410 | 0.410 | ----- | |
| | | | 0.388 | 0.382 | | | | | | | |
| | | | | | | | | Q | A= -0.008 R=0.999 | | |
| | | | | | | | | | B= 0.414 | | |
| | | | | | | | | | C= 0.002 | | |
| 8) | T | Trichlorofma | 0.400 | 0.391 | 0.479 | 0.389 | 0.481 | 0.426 | 0.405 | 0.419 | 8.77 |
| | | | 0.408 | 0.389 | | | | | | | |
| 9) | T | Ethylether | 0.247 | 0.227 | 0.247 | 0.246 | 0.234 | 0.240 | 0.242 | 0.239 | 2.88 |
| | | | 0.236 | 0.234 | | | | | | | |
| 10) | T | dichlorotfluoro | 0.310 | 0.273 | 0.287 | 0.285 | 0.290 | 0.291 | 0.279 | 0.286 | 3.86 |
| | | | 0.276 | 0.278 | | | | | | | |
| 11) | T | propyleneoxide | 0.055 | 0.043 | 0.044 | 0.043 | 0.046 | 0.046 | 0.043 | 0.045 | 8.91 |
| | | | 0.045 | 0.041 | | | | | | | |
| 12) | T | Acrolein | 0.062 | 0.055 | 0.056 | 0.054 | 0.054 | 0.055 | 0.056 | 0.055 | 5.04 |
| | | | 0.053 | 0.052 | | | | | | | |
| 13) | CT | 11dichlorthe | 0.271 | 0.223 | 0.219 | 0.235 | 0.238 | 0.240 | 0.228 | 0.234 | 6.71 |
| | | | 0.227 | 0.222 | | | | | | | |
| 14) | T | Trichlorotfluor | 0.240 | 0.203 | 0.220 | 0.225 | 0.230 | 0.233 | 0.221 | 0.222 | 5.10 |
| | | | 0.216 | 0.211 | | | | | | | |
| 15) | T | Acetone | 0.133 | 0.133 | 0.125 | 0.115 | 0.117 | 0.116 | 0.101 | 0.116 | 11.32 |
| | | | 0.107 | 0.096 | | | | | | | |
| 16) | T | Iodomethane | 0.231 | 0.114 | 0.086 | 0.062 | 0.054 | 0.070 | 0.085 | ----- | |
| | | | 0.096 | 0.102 | | | | | | | |
| | | | | | | | | Q | A= 0.003 R=0.996 | | |
| | | | | | | | | | B= 0.077 | | |
| | | | | | | | | | C= -0.005 | | |
| 17) | T | Carbon Dislf | 0.765 | 0.604 | 0.601 | 0.583 | 0.590 | 0.601 | 0.570 | 0.602 | 10.74 |
| | | | 0.560 | 0.542 | | | | | | | |
| 18) | T | allylchloride | 0.397 | 0.345 | 0.396 | 0.366 | 0.367 | 0.379 | 0.372 | 0.369 | 5.48 |
| | | | 0.363 | 0.336 | | | | | | | |
| 19) | T | methylacetate | | 0.188 | 0.194 | 0.201 | 0.208 | 0.202 | 0.157 | 0.195 | 8.94 |
| | | | 0.216 | 0.198 | | | | | | | |
| 20) | T | Methylchlorid | 0.349 | 0.284 | 0.310 | 0.276 | 0.262 | 0.269 | 0.260 | 0.280 | 10.98 |
| | | | 0.262 | 0.252 | | | | | | | |
| 21) | T | Acrylonitrile | 0.125 | 0.114 | 0.126 | 0.120 | 0.121 | 0.122 | 0.115 | 0.118 | 5.12 |
| | | | 0.115 | 0.107 | | | | | | | |
| 22) | T | t12dichlorte | 0.291 | 0.239 | 0.244 | 0.252 | 0.249 | 0.248 | 0.246 | 0.250 | 6.56 |
| | | | 0.243 | 0.235 | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23) | T | tbutylalcohol | 0.024 | 0.023 | 0.024 | 0.024 | 0.023 | 0.022 | 0.024 | 0.024 | 2.42 |
| | | | 0.024 | 0.024 | | | | | | | |
| 24) | T | MtBE | 0.531 | 0.522 | 0.553 | 0.552 | 0.541 | 0.505 | 0.557 | 0.543 | 3.73 |
| | | | 0.561 | 0.565 | | | | | | | |
| 25) | T | Hexane | 0.403 | 0.365 | 0.391 | 0.423 | 0.422 | 0.433 | 0.414 | 0.404 | 5.20 |
| | | | 0.401 | 0.390 | | | | | | | |
| 26) | PT | 11dichlorota | 0.569 | 0.489 | 0.542 | 0.517 | 0.520 | 0.523 | 0.497 | 0.516 | 5.33 |
| | | | 0.506 | 0.481 | | | | | | | |
| 27) | T | Vinylacetate | 0.465 | 0.458 | 0.464 | 0.431 | 0.400 | 0.399 | 0.437 | 0.417 | 14.32 |
| | | | 0.284 | | | | | | | | |
| 28) | T | chloroprene | 0.419 | 0.364 | 0.391 | 0.400 | 0.411 | 0.419 | 0.407 | 0.400 | 4.42 |
| | | | 0.407 | 0.387 | | | | | | | |
| 29) | T | Diisopether | 0.914 | 0.842 | 0.892 | 0.874 | 0.856 | 0.866 | 0.835 | 0.855 | 4.55 |
| | | | 0.837 | 0.778 | | | | | | | |
| 30) | T | ETBE | 0.358 | 0.387 | 0.390 | 0.391 | 0.346 | 0.254 | 0.422 | ----- | |
| | | | 0.434 | 0.476 | | | | | | | |
| | | | | | | | | Q | A= | 0.033 | R=0.994 |
| | | | | | | | | | B= | 0.349 | |
| | | | | | | | | | C= | -0.008 | |
| 31) | T | 22dichloropr | 0.431 | 0.381 | 0.379 | 0.350 | 0.338 | 0.312 | 0.339 | 0.356 | 10.04 |
| | | | 0.337 | 0.333 | | | | | | | |
| 32) | T | c12dichlorte | 0.299 | 0.263 | 0.280 | 0.278 | 0.275 | 0.275 | 0.269 | 0.275 | 3.89 |
| | | | 0.273 | 0.263 | | | | | | | |
| 33) | T | 2Butanone | | 0.031 | 0.033 | 0.031 | 0.032 | 0.033 | 0.030 | 0.031 | 3.77 |
| | | | 0.031 | 0.030 | | | | | | | |
| 34) | T | propionitrile | | 0.048 | 0.050 | 0.045 | 0.047 | 0.047 | 0.044 | 0.046 | 5.41 |
| | | | 0.044 | 0.042 | | | | | | | |
| 35) | T | Ethylacetate | | 0.007 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006# | 7.50 |
| | | | 0.006 | 0.006 | | | | | | | |
| 36) | T | methacrylonitri | 0.117 | 0.092 | 0.107 | 0.102 | 0.108 | 0.104 | 0.100 | 0.104 | 6.53 |
| | | | 0.104 | 0.100 | | | | | | | |
| 37) | T | Bromochlorma | 0.144 | 0.104 | 0.139 | 0.126 | 0.122 | 0.121 | 0.117 | 0.122 | 10.91 |
| | | | 0.116 | 0.107 | | | | | | | |
| 38) | T | Tetrahydofur | 0.102 | 0.092 | 0.099 | 0.089 | 0.090 | 0.092 | 0.085 | 0.090 | 8.10 |
| | | | 0.084 | 0.079 | | | | | | | |
| 39) | CT | Chloroform | 0.473 | 0.447 | 0.486 | 0.451 | 0.456 | 0.451 | 0.432 | 0.451 | 4.32 |
| | | | 0.439 | 0.422 | | | | | | | |
| 40) | T | 111trichlota | 0.421 | 0.374 | 0.398 | 0.405 | 0.383 | 0.399 | 0.384 | 0.393 | 3.73 |
| | | | 0.388 | 0.380 | | | | | | | |
| 41) | S | SURRDibrflma | 0.274 | 0.276 | 0.271 | 0.269 | 0.266 | 0.269 | 0.263 | 0.269 | 1.66 |
| | | | 0.273 | 0.264 | | | | | | | |
| 42) | T | Cyclohexane | 0.487 | 0.416 | 0.462 | 0.476 | 0.482 | 0.492 | 0.476 | 0.470 | 4.72 |
| | | | 0.473 | 0.464 | | | | | | | |
| 43) | T | Carbtetraclo | 0.348 | 0.298 | 0.319 | 0.339 | 0.338 | 0.354 | 0.336 | 0.335 | 5.04 |
| | | | 0.340 | 0.341 | | | | | | | |
| 44) | T | 11dicloprope | | 0.111 | 0.124 | 0.119 | 0.120 | 0.124 | 0.117 | 0.119 | 3.48 |
| | | | 0.119 | 0.119 | | | | | | | |
| 45) | S | SURR12DCAd4 | 0.064 | 0.065 | 0.069 | 0.064 | 0.063 | 0.065 | 0.063 | 0.064 | 2.69 |
| | | | 0.064 | 0.063 | | | | | | | |
| 46) | T | Benzene | 1.139 | 0.974 | 1.013 | 1.016 | 0.998 | 1.018 | 0.976 | 1.004 | 5.83 |
| | | | 0.977 | 0.924 | | | | | | | |
| 47) | T | 12dichlorota | 0.368 | 0.369 | 0.376 | 0.378 | 0.378 | 0.375 | 0.368 | 0.370 | 2.31 |
| | | | 0.364 | 0.351 | | | | | | | |
| 48) | T | TAME | 0.186 | 0.207 | 0.214 | 0.208 | 0.163 | 0.125 | 0.237 | ----- | |
| | | | 0.251 | 0.298 | | | | | | | |
| | | | | | | | | Q | A= | 0.032 | R=0.993 |
| | | | | | | | | | B= | 0.175 | |
| | | | | | | | | | C= | -0.005 | |
| 49) | T | trichloroete | 0.275 | 0.265 | 0.270 | 0.272 | 0.261 | 0.269 | 0.259 | 0.267 | 2.08 |
| | | | 0.268 | 0.262 | | | | | | | |
| 50) | T | methylcyclohexa | 0.397 | 0.333 | 0.379 | 0.415 | 0.422 | 0.443 | 0.421 | 0.406 | 8.00 |
| | | | 0.418 | 0.423 | | | | | | | |
| 51) | CT | 12dicloropra | 0.361 | 0.306 | 0.322 | 0.301 | 0.305 | 0.307 | 0.300 | 0.311 | 6.57 |
| | | | 0.304 | 0.292 | | | | | | | |
| 52) | T | 23dicl1propene | | 0.355 | 0.391 | 0.380 | 0.401 | 0.397 | 0.401 | 0.390 | 4.05 |
| | | | 0.394 | 0.401 | | | | | | | |
| 53) | T | Dibromometha | | 0.148 | 0.151 | 0.158 | 0.159 | 0.164 | 0.157 | 0.157 | 3.40 |
| | | | 0.161 | 0.155 | | | | | | | |
| 54) | T | methylmethacryl | | 0.140 | 0.147 | 0.150 | 0.158 | 0.165 | 0.162 | 0.157 | 6.15 |
| | | | 0.164 | 0.166 | | | | | | | |

```
55) T   14dioxane           0.003 0.003 0.003 0.003 0.003 0.003 0.003#  6.54
                    0.003 0.003
56) T   Bromodiclrma    0.329 0.312 0.358 0.338 0.345 0.350 0.343 0.340   3.93
                    0.347 0.338
57) T   2Nitropropane       0.068 0.076 0.080 0.083 0.087 0.085 0.080   7.56
                    0.084 0.081
58) T   c13dicloproe    0.425 0.344 0.393 0.388 0.401 0.402 0.392 0.393   5.43
                    0.400 0.391
59) T   4Meth2Pentan    0.246 0.231 0.251 0.247 0.251 0.249 0.234 0.237   7.46
                    0.228 0.196
60) S   SURRd8Tolule    0.973 0.988 0.979 0.994 0.989 0.993 0.988 0.986   0.67
                    0.986 0.988
61) CT  Toluene         0.655 0.602 0.617 0.595 0.617 0.625 0.609 0.614   3.11
                    0.620 0.590
62) T   t13Dicloprop    0.394 0.304 0.333 0.335 0.332 0.338 0.346 0.342   6.92
                    0.350 0.345
63) T   ethylmethacryla      0.232 0.235 0.248 0.267 0.275 0.275 0.260   7.07
                    0.274 0.271
64) T   112Triclotha         0.195 0.188 0.191 0.196 0.194 0.192 0.191   2.91
                    0.189 0.179
65) T   Tetrachlorte    0.350 0.271 0.282 0.260 0.265 0.268 0.259 0.275  10.52
                    0.263 0.258
66) T   13Diclorpropa   0.385 0.367 0.366 0.385 0.380 0.377 0.374 0.374   2.45
                    0.375 0.358

67) I   d5-CHLOROBENZENE**IST ----------------ISTD---------------------
68) T   2Hexanone       0.240 0.214 0.225 0.229 0.235 0.235 0.220 0.224   5.73
                    0.219 0.199
69) T   Clorodibrmta    0.304 0.289 0.332 0.330 0.335 0.333 0.334 0.326   5.28
                    0.332 0.341
70) T   12Dibrometha    0.322 0.289 0.301 0.304 0.315 0.311 0.306 0.307   3.00
                    0.309 0.304
71) PT  Chlorobenzen    0.991 0.809 0.933 0.900 0.907 0.912 0.887 0.900   5.43
                    0.899 0.866
72) T   1Clhexane       0.503 0.433 0.437 0.422 0.428 0.443 0.436 0.442   5.47
                    0.430 0.441
73) T   1112Tetclota         0.291 0.298 0.299 0.309 0.323 0.315 0.309   3.83
                    0.316 0.322
74) CT  Ethylbenzene    1.482 1.355 1.472 1.503 1.505 1.571 1.513 1.489   3.95
                    1.526 1.478
75) T   m p-Xylene      0.663 0.514 0.538 0.578 0.579 0.603 0.584 0.581   7.10
                    0.589 0.581
76) T   o-Xylene        0.530 0.501 0.534 0.544 0.540 0.581 0.568 0.549   4.69
                    0.574 0.566
77) T   Styrene         0.837 0.726 0.770 0.857 0.905 0.929 0.922 0.867   8.74
                    0.930 0.925
78) PT  Bromoform            0.195 0.182 0.194 0.201 0.213 0.202 0.201   5.32
                    0.209 0.213
79) T   Isopropylben    1.387 1.228 1.357 1.410 1.429 1.530 1.486 1.417   6.25
                    1.484 1.437

80) I   d4-1,4-DICHLOROBENZEN ----------------ISTD---------------------
81) T   cyclohexanone         0.068 0.079 0.077 0.081 0.083 0.073 0.077   6.23
                    0.078 0.074
82) S   SURR4BrFBenz    0.938 0.962 0.952 0.948 0.951 0.987 0.975 0.961   1.69
                    0.957 0.980
83) T   Bromobenzene    0.743 0.673 0.706 0.676 0.661 0.684 0.676 0.685   3.69
                    0.682 0.664
84) PT  1122Tetrclta    0.821 0.782 0.766 0.805 0.772 0.780 0.784 0.774   4.00
                    0.736 0.721
85) T   123Triclproa         0.718 0.807 0.768 0.760 0.777 0.755 0.765   3.27
                    0.776 0.760
86) T   14dichloro2bute       0.054 0.070 0.058 0.059 0.074 0.065 0.065  11.19
                    0.069 0.073
87) T   n-Propylbenz    3.423 3.184 3.316 3.387 3.435 3.568 3.432 3.381   3.45
                    3.445 3.241
88) T   2chlorotolue    2.095 1.793 2.057 1.976 2.027 2.067 1.991 1.996   4.48
                    2.013 1.946
89) T   4chlorotolue    2.392 2.120 2.265 2.370 2.365 2.407 2.361 2.322   4.02
                    2.370 2.246
```

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 90) | T | 135Trimebenz | 2.294 | 1.953 | 2.135 | 2.310 | 2.373 | 2.516 | 2.436 | 2.317 | 7.61 |
| | | | 2.471 | 2.365 | | | | | | | |
| 91) | T | tbutylbenzen | 1.921 | 1.678 | 1.838 | 1.886 | 1.984 | 2.118 | 2.053 | 1.956 | 7.15 |
| | | | 2.080 | 2.041 | | | | | | | |
| 92) | T | 124Trimetben | 2.091 | 2.059 | 2.205 | 2.281 | 2.348 | 2.504 | 2.411 | 2.296 | 6.64 |
| | | | 2.434 | 2.328 | | | | | | | |
| 93) | T | sbutylbenzen | 2.890 | 2.524 | 2.847 | 2.977 | 3.022 | 3.194 | 3.079 | 2.952 | 6.48 |
| | | | 3.073 | 2.959 | | | | | | | |
| 94) | T | 13Diclorbenz | 1.560 | 1.166 | 1.286 | 1.329 | 1.275 | 1.308 | 1.281 | 1.306 | 8.09 |
| | | | 1.298 | 1.252 | | | | | | | |
| 95) | T | pIsopropylto | 2.428 | 2.085 | 2.288 | 2.508 | 2.556 | 2.674 | 2.640 | 2.487 | 7.77 |
| | | | 2.650 | 2.550 | | | | | | | |
| 96) | T | 14dichlorobe | 1.432 | 1.262 | 1.408 | 1.346 | 1.313 | 1.321 | 1.339 | 1.332 | 4.30 |
| | | | 1.304 | 1.267 | | | | | | | |
| 97) | T | 12dichlorobe | 1.336 | 1.198 | 1.288 | 1.205 | 1.215 | 1.185 | 1.210 | 1.223 | 4.44 |
| | | | 1.208 | 1.161 | | | | | | | |
| 98) | T | nButylbenzen | 2.719 | 2.219 | 2.262 | 2.364 | 2.434 | 2.542 | 2.509 | 2.438 | 6.21 |
| | | | 2.489 | 2.405 | | | | | | | |
| 99) | T | 12dibromo3cl | | 0.114 | 0.128 | 0.135 | 0.124 | 0.127 | 0.138 | 0.130 | 6.64 |
| | | | 0.137 | 0.138 | | | | | | | |
| 100) | T | 135Trichloroben | 0.900 | 0.810 | 0.818 | 0.890 | 0.842 | 0.853 | 0.896 | 0.868 | 4.42 |
| | | | 0.916 | 0.887 | | | | | | | |
| 101) | T | 124Trichlobe | 0.750 | 0.723 | 0.710 | 0.700 | 0.718 | 0.699 | 0.763 | 0.735 | 4.46 |
| | | | 0.790 | 0.767 | | | | | | | |
| 102) | T | Hexachlorobu | 0.491 | 0.402 | 0.408 | 0.414 | 0.407 | 0.416 | 0.438 | 0.429 | 6.60 |
| | | | 0.437 | 0.450 | | | | | | | |
| 103) | T | Naphthalene | 1.484 | 1.397 | 1.475 | 1.450 | 1.544 | 1.577 | 1.690 | 1.573 | 8.91 |
| | | | 1.774 | 1.769 | | | | | | | |
| 104) | T | 123Trichlben | 0.643 | 0.619 | 0.610 | 0.623 | 0.604 | 0.587 | 0.641 | 0.629 | 4.49 |
| | | | 0.672 | 0.665 | | | | | | | |

Total Average %RSD 5.86

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

PS032525.M Fri Mar 28 13:11:21 2025

Data File : C:\Instarch\Data\MAR2525\BFB1.D  Vial: 1
Acq On : 25 Mar 2025 13:41  Operator: RLD-DGS
Sample : BFB DIRECT INJ.  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.923 to 4.933 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.9 | 11692 | PASS |
| 75 | 95 | 30 | 60 | 46.2 | 28630 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 61942 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 4081 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 176 | PASS |
| 174 | 95 | 50 | 100 | 71.7 | 44442 | PASS |
| 175 | 174 | 5 | 9 | 7.8 | 3479 | PASS |
| 176 | 174 | 95 | 101 | 96.0 | 42656 | PASS |
| 177 | 176 | 5 | 9 | 8.0 | 3392 | PASS |

PS032525.M Fri Mar 28 12:58:40 2025

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS1.D Vial: 4
Acq On : 25 Mar 2025 15:22 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:32:01 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:24:19 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1155933 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 875199 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 440062 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 316335 | 1.016 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 102 % | | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 73424 | 0.986 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1124654 | 0.986 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 412828 | 0.976 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.96 | 85 | 7753 | 0.0236 | mg/kg | 90 |
| 3) Chloromethan | 2.19 | 50 | 13780m | 0.0272 | mg/kg | 96 |
| 4) VinylChlorid | 2.41 | 62 | 9567 | 0.0237 | mg/kg# | 32 |
| 5) Bromomethane | 2.83 | 94 | 16626 | 0.0891 | mg/kg | 97 |
| 6) Chloroethane | 3.01 | 64 | 1921m | 0.0173 | mg/kg# | 100 |
| 7) dichloroflmethane | 3.29 | 67 | 4607m | 0.0090 | mg/kg# | 88 |
| 8) Trichlorofma | 3.35 | 101 | 11548 | 0.0239 | mg/kg | 95 |
| 9) Ethylether | 3.90 | 59 | 7130 | 0.0258 | mg/kg# | 84 |
| 10) dichlorotfluoroethan | 3.86 | 67 | 8961 | 0.0271 | mg/kg | 94 |
| 11) propyleneoxide | 4.12 | 58 | 15949 | 0.3054 | mg/kg | 73 |
| 12) Acrolein | 4.02 | 56 | 8918 | 0.1396 | mg/kg | 91 |
| 13) 11dichlorthe | 4.12 | 96 | 7823 | 0.0290 | mg/kg | 97 |
| 14) Trichlorotfluoroeth | 4.17 | 101 | 13867 | 0.0540 | mg/kg | 96 |
| 15) Acetone | 4.28 | 43 | 38304m | 0.2775 | mg/kg | 93 |
| 16) Iodomethane | 4.31 | 127 | 13341m | 0.1027 | mg/kg# | 98 |
| 17) Carbon Dislf | 4.39 | 76 | 44201 | 0.0636 | mg/kg | 94 |
| 18) allylchloride | 4.63 | 41 | 22962 | 0.0538 | mg/kg | 96 |
| 19) methylacetate | 4.73 | 74 | 6244 | 0.0276 | mg/kg | 70 |
| 20) Methylchlorid | 4.80 | 84 | 10085 | 0.0311 | mg/kg | 94 |
| 21) Acrylonitrile | 5.12 | 53 | 18010 | 0.1315 | mg/kg | 87 |
| 22) t12dichlorte | 5.17 | 96 | 8413 | 0.0291 | mg/kg | 90 |
| 23) tbutylalcohol | 5.14 | 59 | 34422 | 1.2538 | mg/kg | 77 |
| 24) MtBE | 5.26 | 73 | 15345 | 0.0244 | mg/kg | 84 |
| 25) Hexane | 5.56 | 57 | 23264 | 0.0498 | mg/kg | 90 |
| 26) 11dichlorota | 5.70 | 63 | 16456 | 0.0276 | mg/kg | 90 |
| 27) Vinylacetate | 5.82 | 43 | 134305 | 0.2963 | mg/kg | 99 |
| 28) chloroprene | 5.84 | 53 | 24209 | 0.0523 | mg/kg | 86 |
| 29) Diisopether | 5.90 | 45 | 26422 | 0.0267 | mg/kg | 95 |
| 30) ETBE | 6.35 | 59 | 10333m | 0.0227 | mg/kg | 97 |
| 31) 22dichloropr | 6.45 | 77 | 12446 | 0.0303 | mg/kg | 96 |
| 32) c12dichlorte | 6.45 | 96 | 8640 | 0.0272 | mg/kg | 94 |
| 33) 2Butanone | 6.52 | 72 | 11906 | 0.3283 | mg/kg | 90 |
| 34) propionitrile | 6.54 | 54 | 14611 | 0.2749 | mg/kg | 87 |
| 35) Ethylacetate | 6.61 | 88 | 1497 | 0.2099 | mg/kg# | 30 |
| 36) methacrylonitrile | 6.72 | 67 | 6766 | 0.0564 | mg/kg | 89 |
| 37) Bromochlorma | 6.74 | 128 | 4154 | 0.0295 | mg/kg | 98 |
| 38) Tetrahydofur | 6.90 | 42 | 29612 | 0.2837 | mg/kg | 94 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS1.D  Vial: 4
Acq On : 25 Mar 2025 15:22  Operator: RLD-DGS
Sample : CALIB. PT. 1  Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:32:01 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:24:19 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 6.84 | 83 | 13657 | 0.0262 mg/kg | 96 |
| 40) 111trichlota | 7.10 | 97 | 12164 | 0.0268 mg/kg | 89 |
| 42) Cyclohexane | 7.18 | 56 | 14064 | 0.0259 mg/kg | 96 |
| 43) Carbtetraclo | 7.31 | 119 | 10068 | 0.0260 mg/kg | 99 |
| 44) 11dicloprope | 7.30 | 110 | 3653 | 0.0266 mg/kg# | 65 |
| 46) Benzene | 7.55 | 78 | 32909 | 0.0284 mg/kg | 93 |
| 47) 12dichlorota | 7.55 | 62 | 10633 | 0.0249 mg/kg# | 76 |
| 48) TAME | 7.77 | 73 | 5363m | 0.0214 mg/kg | 95 |
| 49) trichloroete | 8.37 | 95 | 7949 | 0.0258 mg/kg | 99 |
| 50) methylcyclohexane | 8.63 | 83 | 11464 | 0.0244 mg/kg | 91 |
| 51) 12dicloropra | 8.63 | 63 | 10442 | 0.0290 mg/kg | 84 |
| 52) 23dicl1propene | 8.69 | 75 | 12140 | 0.0269 mg/kg | 91 |
| 53) Dibromometha | 8.77 | 93 | 4983 | 0.0275 mg/kg | 93 |
| 54) methylmethacrylate | 8.80 | 69 | 4980 | 0.0275 mg/kg# | 80 |
| 55) 14dioxane | 8.87 | 88 | 2314 | 0.6600 mg/kg# | 1 |
| 56) Bromodiclrma | 8.96 | 83 | 9516 | 0.0242 mg/kg | 100 |
| 57) 2Nitropropane | 9.23 | 43 | 22765 | 0.2449 mg/kg | 96 |
| 58) c13dicloproe | 9.55 | 75 | 12268 | 0.0270 mg/kg | 97 |
| 59) 4Meth2Pentan | 9.77 | 43 | 70986 | 0.2591 mg/kg | 98 |
| 61) Toluene | 10.00 | 92 | 18921 | 0.0266 mg/kg | 95 |
| 62) t13Dicloprop | 10.26 | 75 | 11387 | 0.0288 mg/kg | 81 |
| 63) ethylmethacrylate | 10.42 | 69 | 15877 | 0.0529 mg/kg | 95 |
| 64) 112Triclotha | 10.50 | 83 | 6327 | 0.0287 mg/kg | 93 |
| 65) Tetrachlorte | 10.75 | 166 | 10103 | 0.0310 mg/kg | 88 |
| 66) 13Diclorpropa | 10.73 | 76 | 11140 | 0.0257 mg/kg | 89 |
| 68) 2Hexanone | 10.86 | 43 | 52474 | 0.2676 mg/kg | 93 |
| 69) Clorodibrmta | 11.03 | 129 | 6661 | 0.0234 mg/kg | 84 |
| 70) 12Dibrometha | 11.18 | 107 | 7053 | 0.0263 mg/kg | 98 |
| 71) Chlorobenzen | 11.88 | 112 | 21687 | 0.0275 mg/kg | 97 |
| 72) 1Clhexane | 11.84 | 91 | 11014 | 0.0285 mg/kg# | 51 |
| 73) 1112Tetclota | 11.99 | 131 | 7264 | 0.0269 mg/kg | 98 |
| 74) Ethylbenzene | 12.04 | 91 | 32419 | 0.0249 mg/kg | 99 |
| 75) m p-Xylene | 12.19 | 106 | 29034 | 0.0571 mg/kg# | 79 |
| 76) o-Xylene | 12.75 | 106 | 11603 | 0.0242 mg/kg | 98 |
| 77) Styrene | 12.76 | 104 | 18318 | 0.0241 mg/kg | 98 |
| 78) Bromoform | 13.00 | 173 | 4552 | 0.0259 mg/kg | 83 |
| 79) Isopropylben | 13.28 | 105 | 30353 | 0.0245 mg/kg | 100 |
| 81) cyclohexanone | 13.39 | 55 | 16910 | 0.5022 mg/kg | 92 |
| 83) Bromobenzene | 13.70 | 156 | 8173 | 0.0271 mg/kg | 91 |
| 84) 1122Tetrclta | 13.64 | 83 | 9033 | 0.0265 mg/kg | 88 |
| 85) 123Triclproa | 13.71 | 75 | 9635 | 0.0286 mg/kg | 91 |
| 86) 14dichloro2butene | 13.74 | 53 | 735m | 0.0256 mg/kg# | 0 |
| 87) n-Propylbenz | 13.86 | 91 | 37660 | 0.0253 mg/kg | 98 |
| 88) 2chlorotolue | 13.98 | 91 | 23046 | 0.0262 mg/kg | 100 |
| 89) 4chlorotolue | 14.13 | 91 | 26321 | 0.0258 mg/kg | 97 |
| 90) 135Trimebenz | 14.12 | 105 | 25233 | 0.0247 mg/kg | 96 |
| 91) tbutylbenzen | 14.59 | 119 | 21132 | 0.0246 mg/kg | 94 |
| 92) 124Trimetben | 14.66 | 105 | 23005 | 0.0228 mg/kg | 97 |
| 93) sbutylbenzen | 14.91 | 105 | 31792 | 0.0245 mg/kg | 99 |
| 94) 13Diclorbenz | 15.07 | 146 | 17159 | 0.0298 mg/kg | 96 |
| 95) pIsopropylto | 15.13 | 119 | 26715 | 0.0244 mg/kg# | 99 |
| 96) 14dichlorobe | 15.18 | 146 | 15756 | 0.0269 mg/kg# | 58 |
| 97) 12dichlorobe | 15.73 | 146 | 14695 | 0.0273 mg/kg# | 66 |
| 98) nButylbenzen | 15.73 | 91 | 29916 | 0.0279 mg/kg | 93 |
| 99) 12dibromo3cl | 16.81 | 157 | 2331 | 0.0407 mg/kg | 83 |
| 100) 135Trichlorobenzene | 17.14 | 180 | 9902 | 0.0259 mg/kg | 93 |
| 101) 124Trichlobe | 17.94 | 180 | 8246 | 0.0255 mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS1.D Vial: 4
Acq On : 25 Mar 2025 15:22 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:32:01 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:24:19 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 5397 | 0.0286 | mg/kg | 89 |
| 103) | Naphthalene | 18.25 | 128 | 16326 | 0.0236 | mg/kg | 91 |
| 104) | 123Trichlben | 18.55 | 180 | 7072 | 0.0255 | mg/kg | 87 |

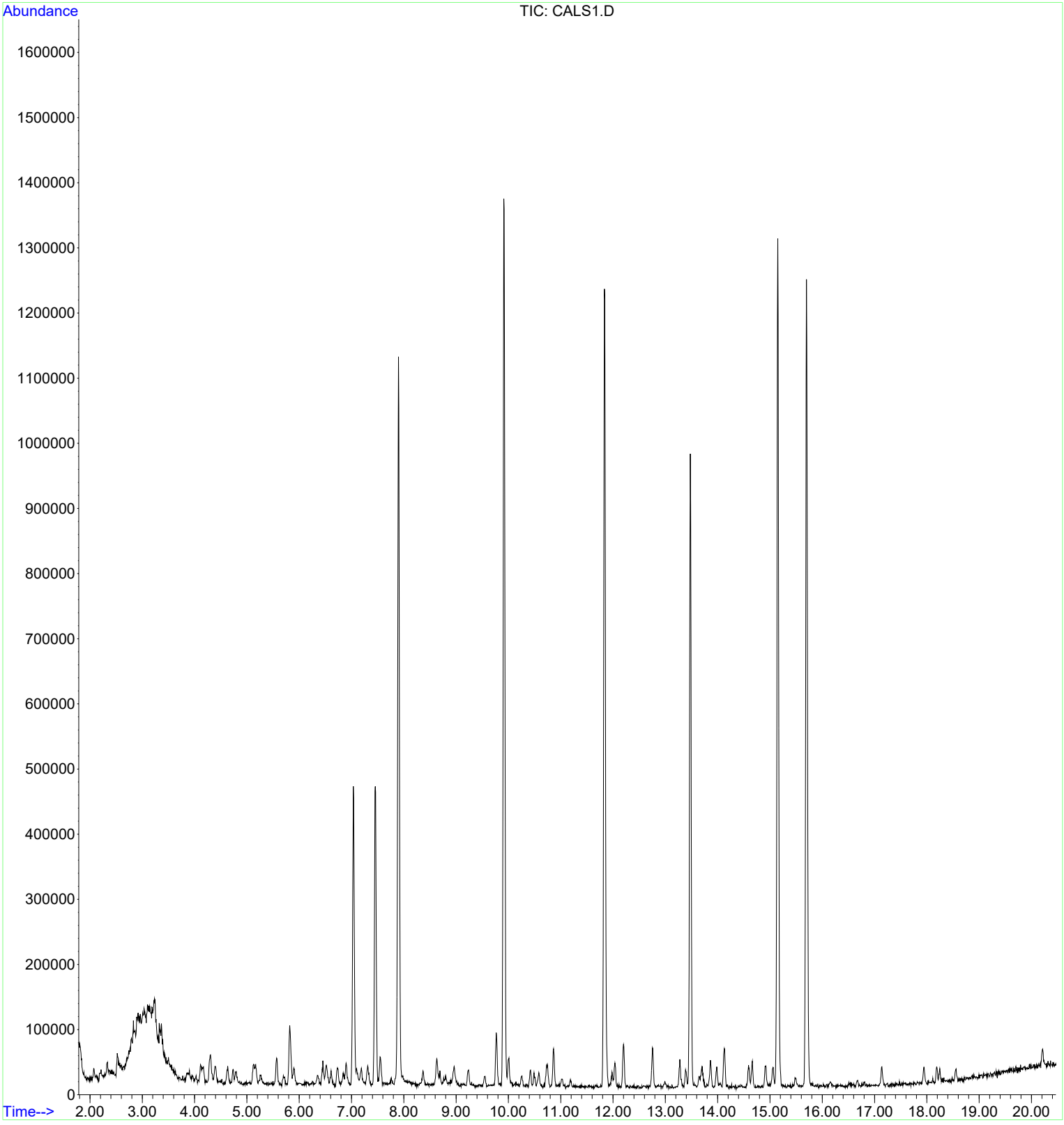
(#) = qualifier out of range (m) = manual integration

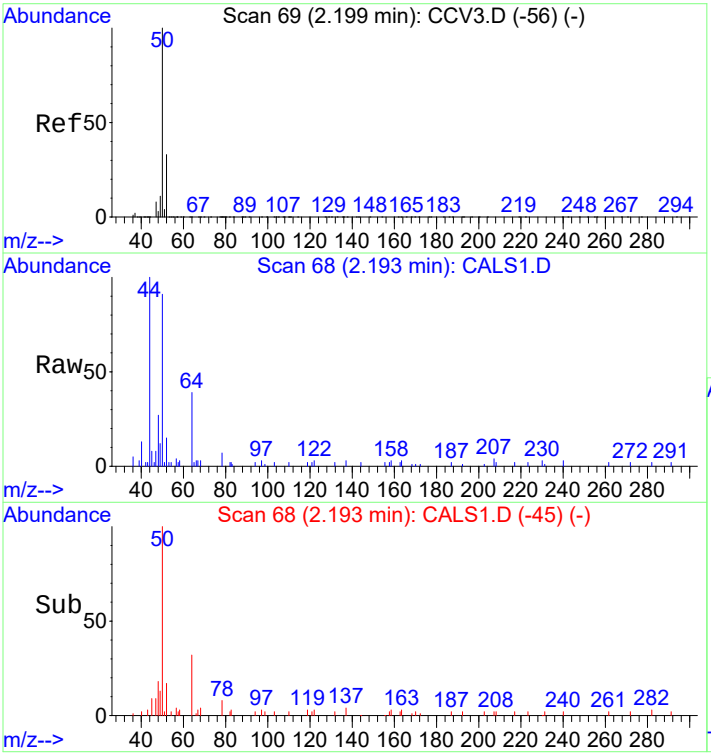
Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS1.D  Vial: 4
Acq On : 25 Mar 2025 15:22  Operator: RLD-DGS
Sample : CALIB. PT. 1  Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:32:01 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:24:19 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

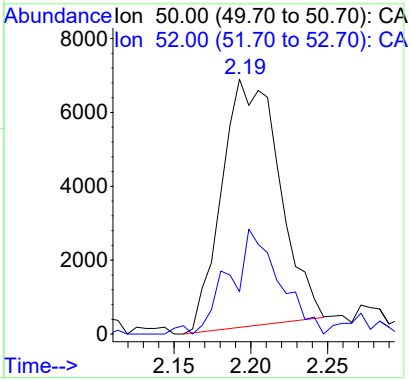


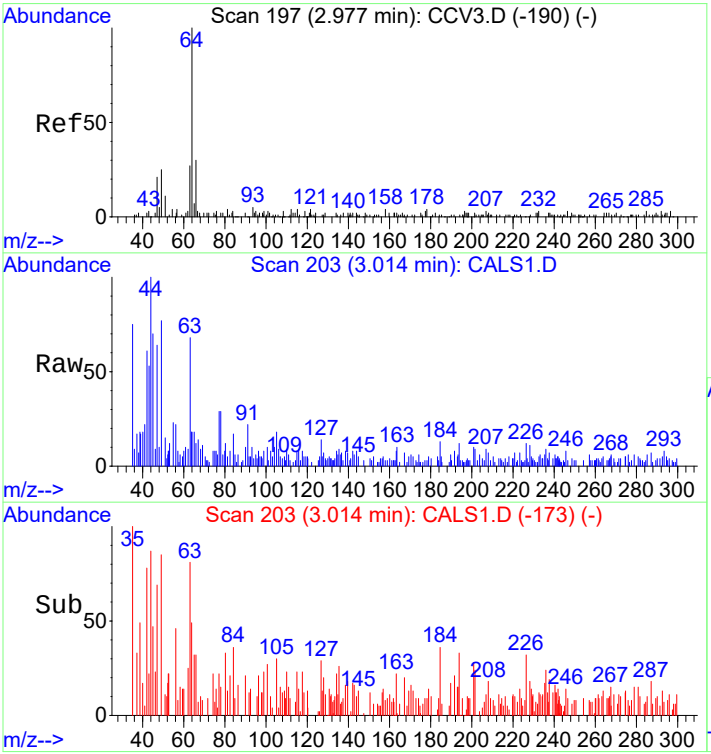



#3
Chloromethan
Concen: 0.03 mg/kg m
RT: 2.19 min Scan# 68
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 50 Resp: 13780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.9 | 11.6 | 51.6 |

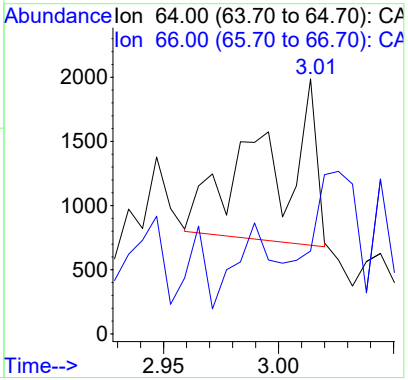



#6
Chloroethane
Concen: 0.02 mg/kg m
RT: 3.01 min Scan# 203
Delta R.T. 0.03 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 64 Resp: 1921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 168.6 | 16.2 | 56.2# |




After Manual Integration

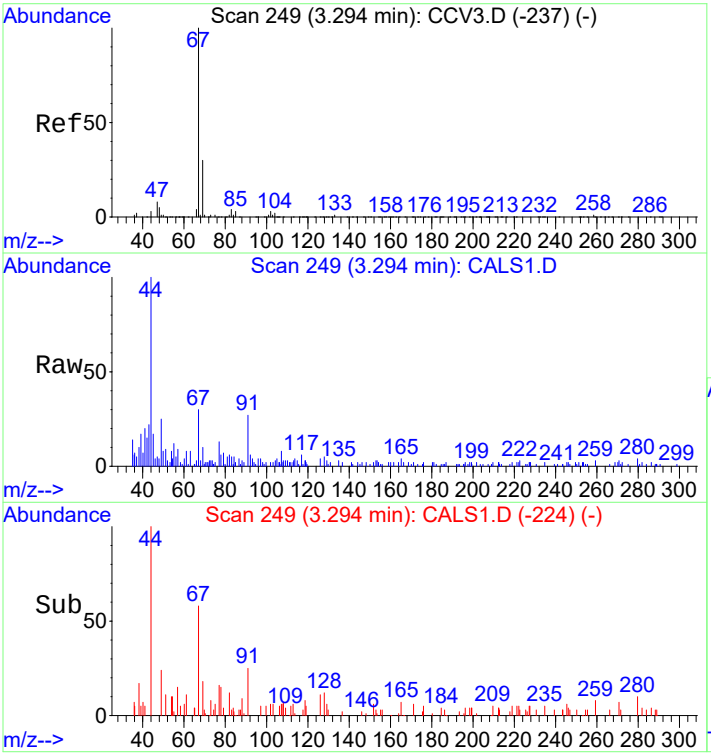
RO 04/03/2025

DGS 04/03/2025

After Manual Integration

RD 04/03/2025

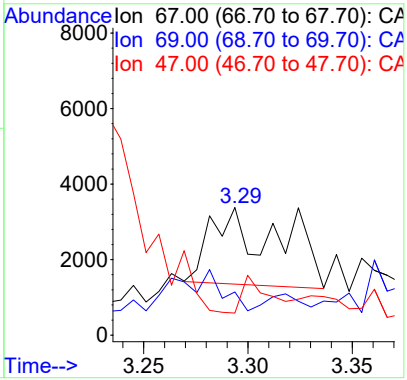
DGS 04/03/2025

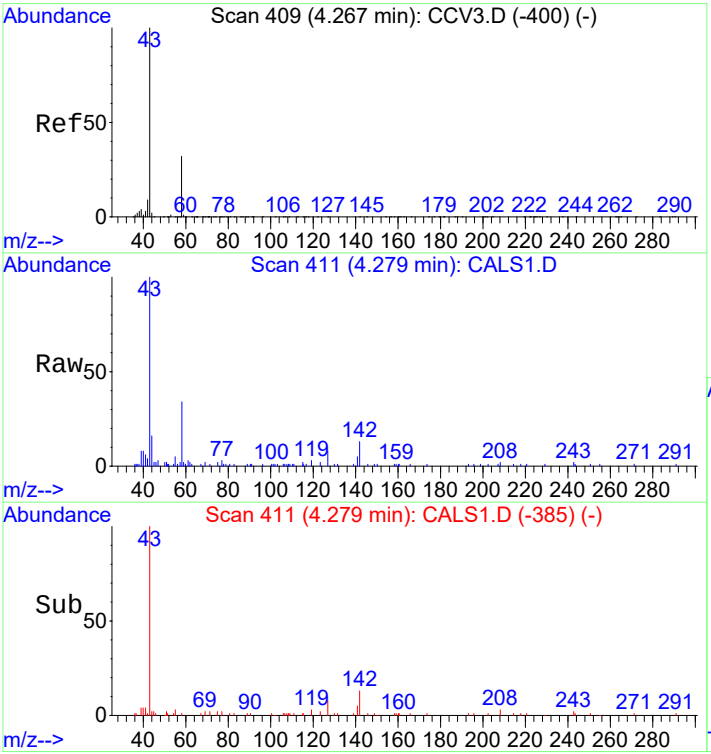



#7
dichloroflmethane
Concen: 0.01 mg/kg m
RT: 3.29 min Scan# 249
Delta R.T. -0.00 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 67 Resp: 4607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 67 | 100 | | |
| 69 | 114.6 | 11.9 | 51.9# |
| 47 | 83.9 | 0.0 | 25.7# |

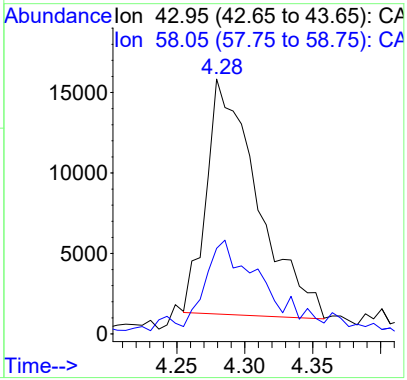


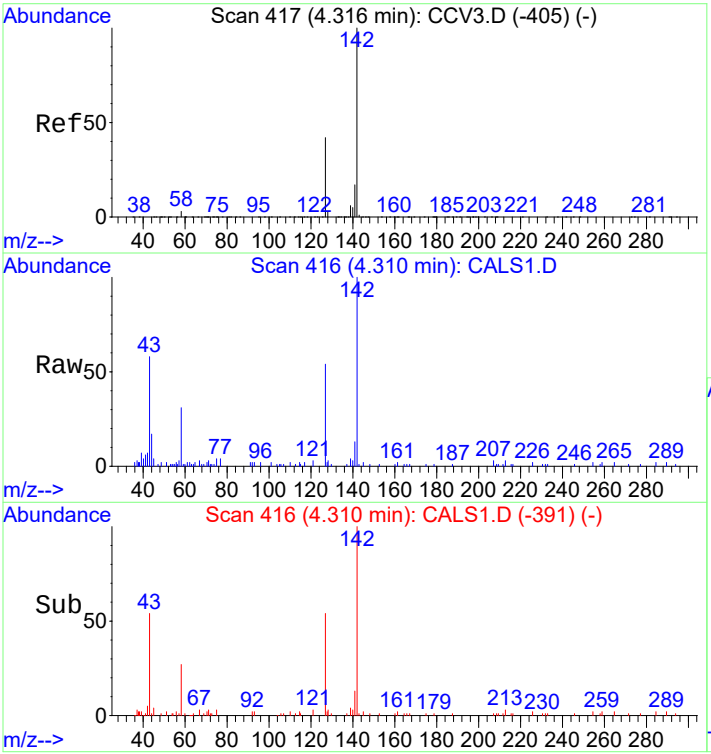




#15
Acetone
Concen: 0.28 mg/kg m
RT: 4.28 min Scan# 411
Delta R.T. 0.01 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 43 Resp: 38304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.8 | 11.6 | 51.6 |

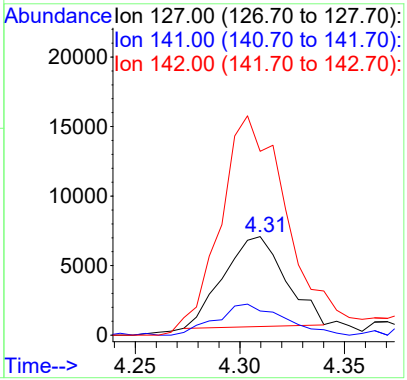





#16
Iodomethane
Concen: 0.10 mg/kg m
RT: 4.31 min Scan# 416
Delta R.T. -0.00 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion:127 Resp: 13341

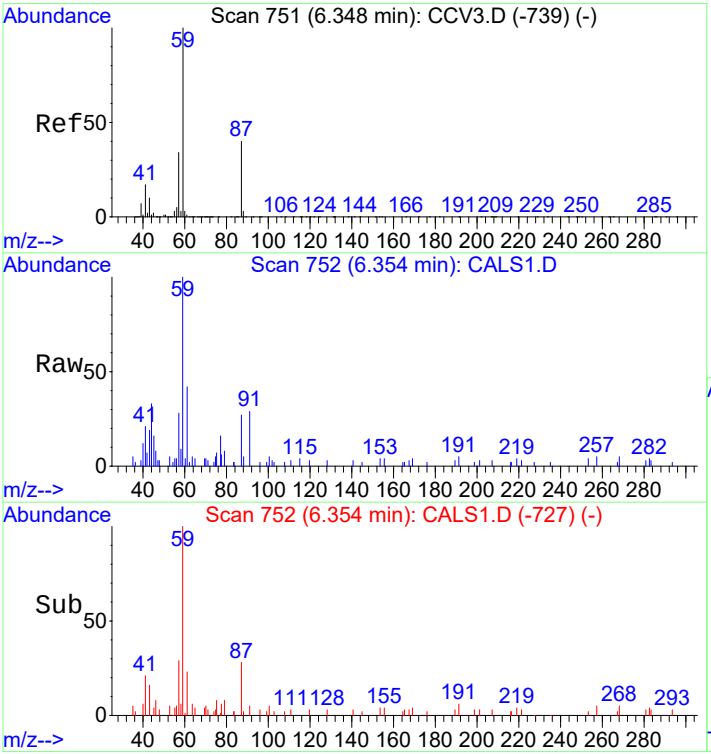
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 141 | 37.5 | 13.6 | 53.6 |
| 142 | 311.0 | 223.4 | 263.4# |




After Manual Integration

RO 04/03/2025

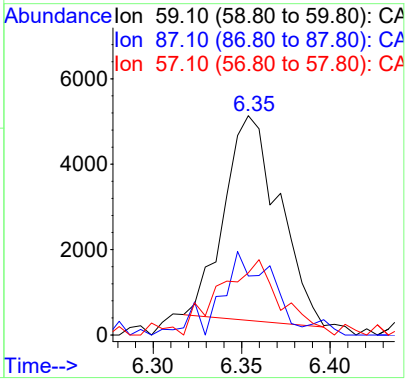
DGS 04/03/2025

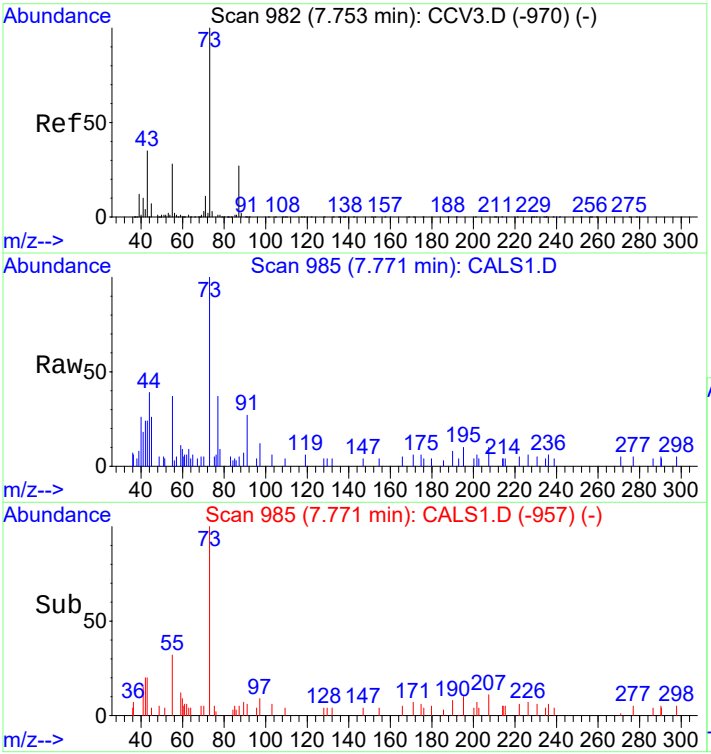



#30
ETBE
Concen: 0.02 mg/kg m
RT: 6.35 min Scan# 752
Delta R.T. -0.00 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 59 Resp: 10333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 87 | 40.7 | 16.9 | 56.9 |
| 57 | 40.8 | 13.2 | 53.2 |

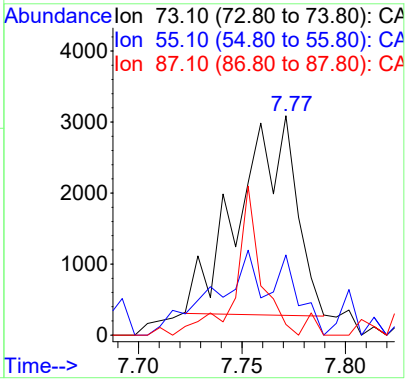





#48
TAME
Concen: 0.02 mg/kg m
RT: 7.77 min Scan# 985
Delta R.T. 0.02 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 73 Resp: 5363

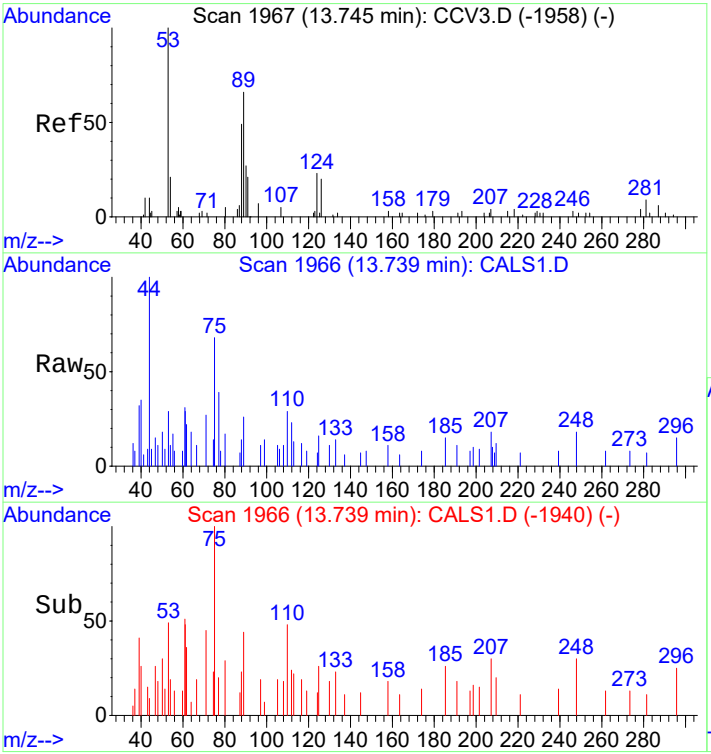
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 55 | 50.7 | 13.4 | 53.4 |
| 87 | 33.3 | 4.6 | 44.6 |




After Manual Integration

RD 04/03/2025

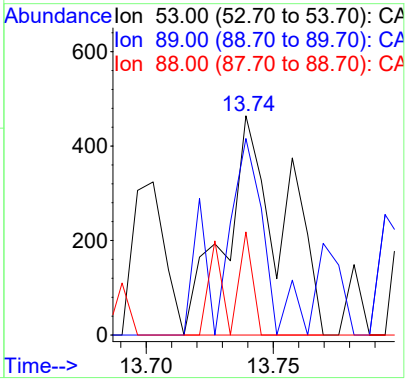
DGS 04/03/2025

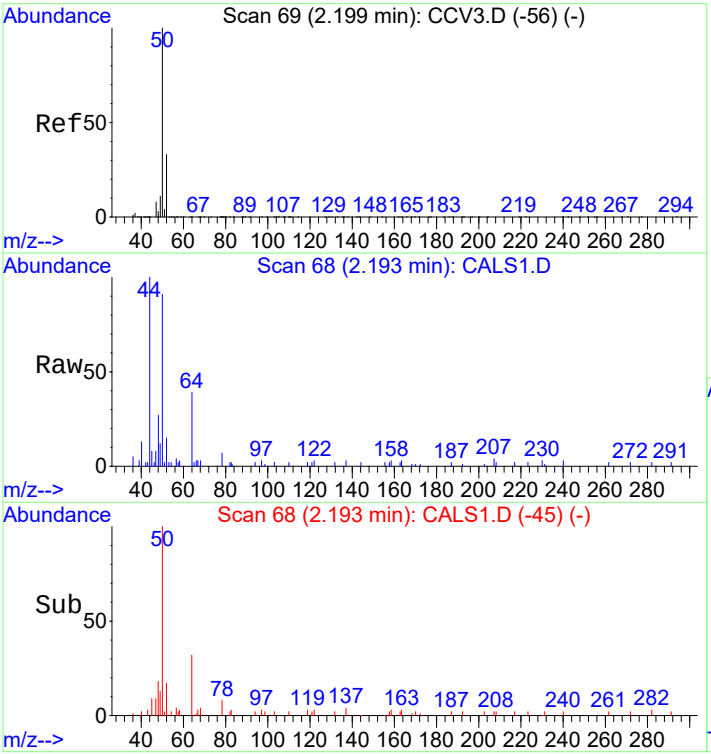



#86
14dichloro2butene
Concen: 0.03 mg/kg m
RT: 13.74 min Scan# 1966
Delta R.T. 0.01 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 53 Resp: 735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 89 | 0.0 | 52.8 | 92.8# |
| 88 | 0.0 | 28.8 | 68.8# |





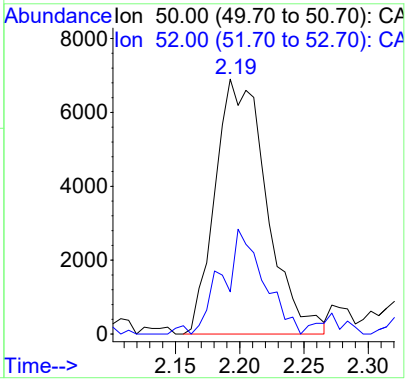

#3
Chloromethan
Concen: 0.04 mg/kg
RT: 2.19 min Scan# 68
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 50 Resp: 19250

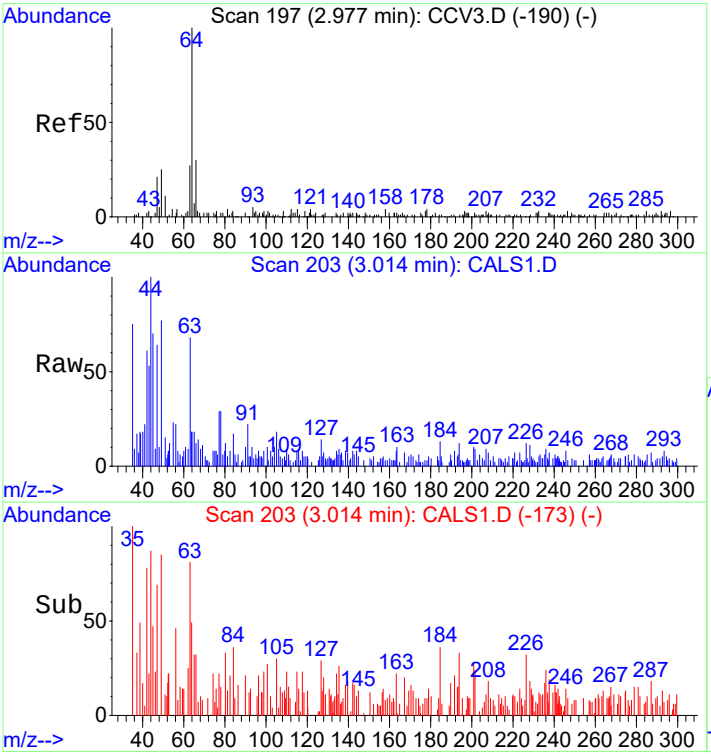
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.6 | 11.6 | 51.6 |

Before Manual Integration

RO 04/03/2025



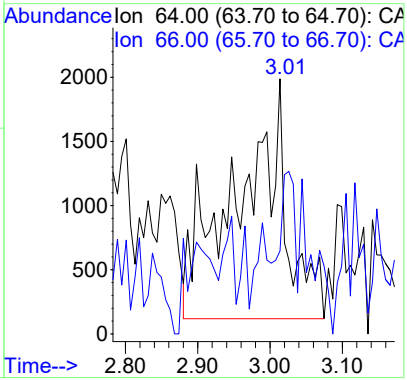

REASON # 2



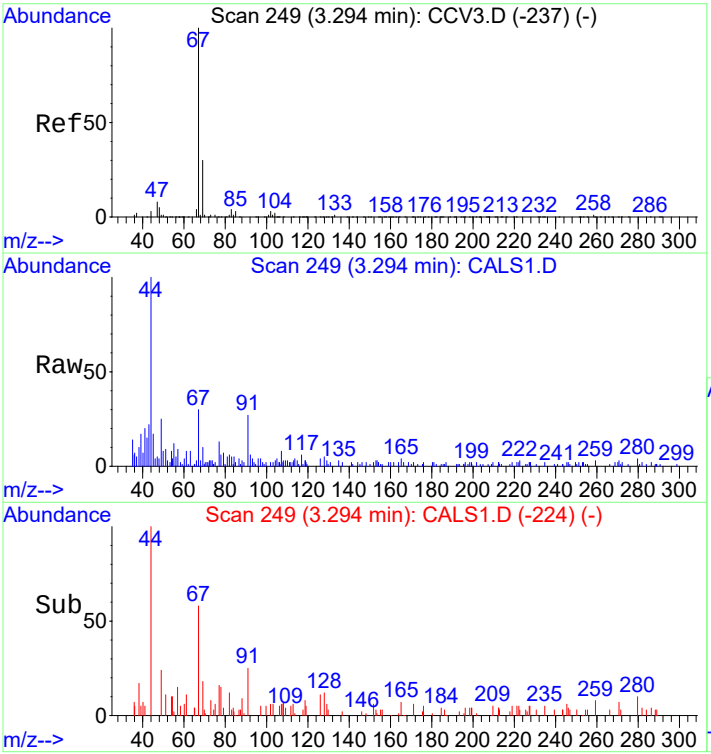

#6
Chloroethane
Concen: 0.12 mg/kg
RT: 3.01 min Scan# 203
Delta R.T. 0.03 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 64 Resp: 8984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 36.1 | 16.2 | 56.2 |



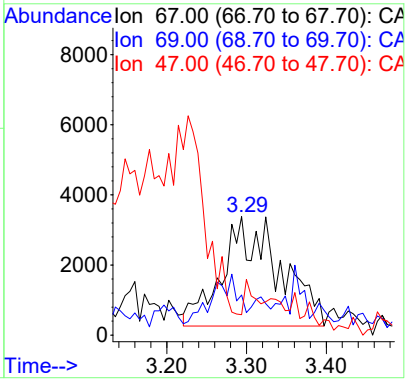

REASON # 2




#7
dichloroflmethane
Concen: 0.03 mg/kg
RT: 3.29 min Scan# 249
Delta R.T. 0.00 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 67 Resp: 15484

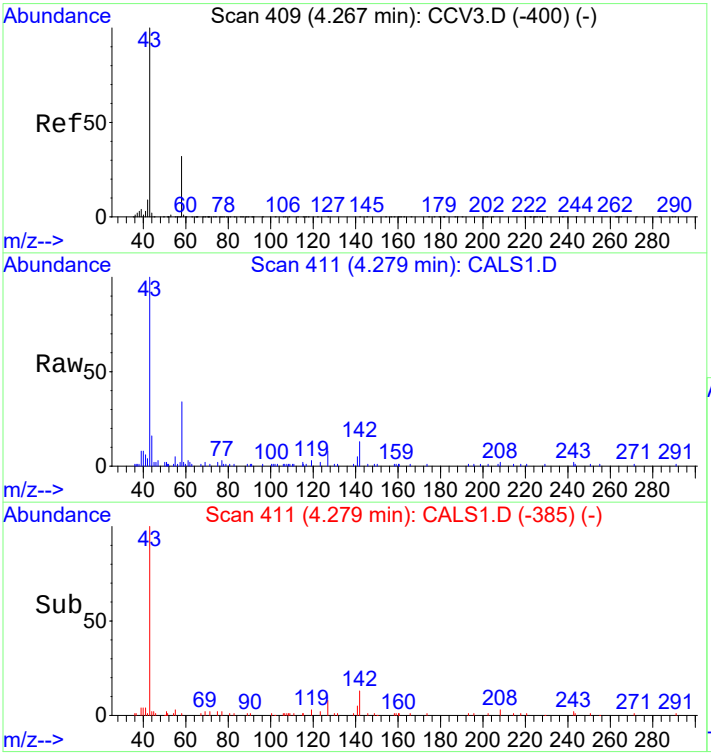
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 67 | 100 | | |
| 69 | 34.1 | 11.9 | 51.9 |
| 47 | 25.0 | 0.0 | 25.7 |




Before Manual Integration

RO 04/03/2025

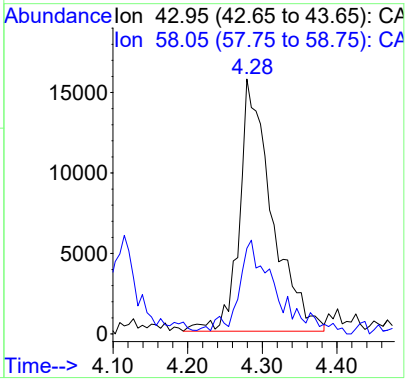
REASON # 2



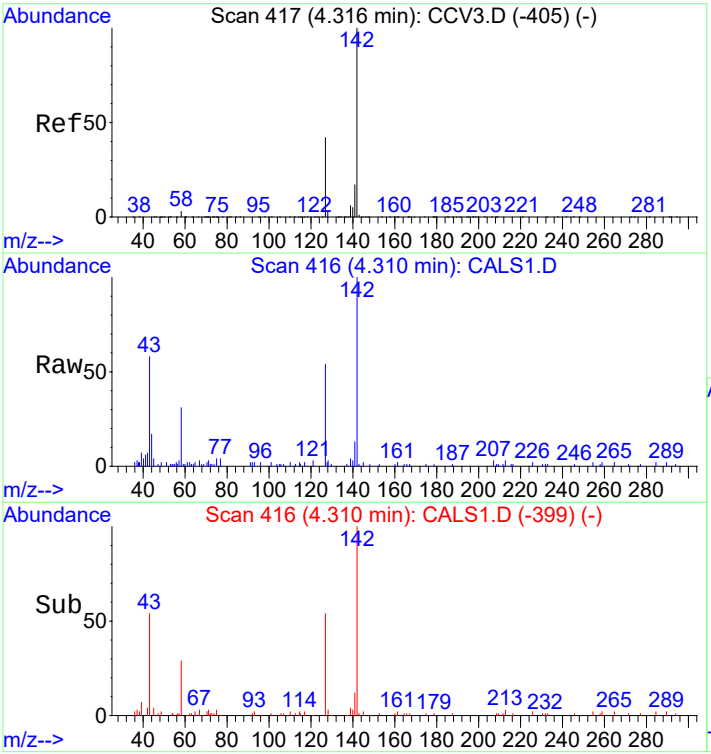

#15
Acetone
Concen: 0.36 mg/kg
RT: 4.28 min Scan# 411
Delta R.T. 0.01 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 43 Resp: 47562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.3 | 11.6 | 51.6 |



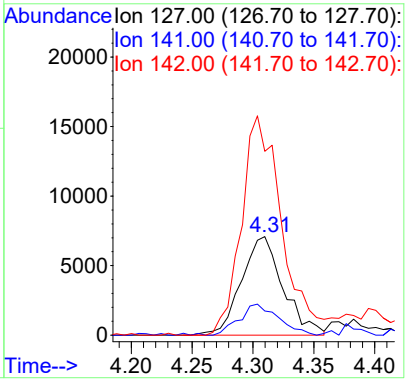

REASON # 2




#16
Iodomethane
Concen: 0.25 mg/kg
RT: 4.31 min Scan# 416
Delta R.T. 0.00 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion:127 Resp: 16895

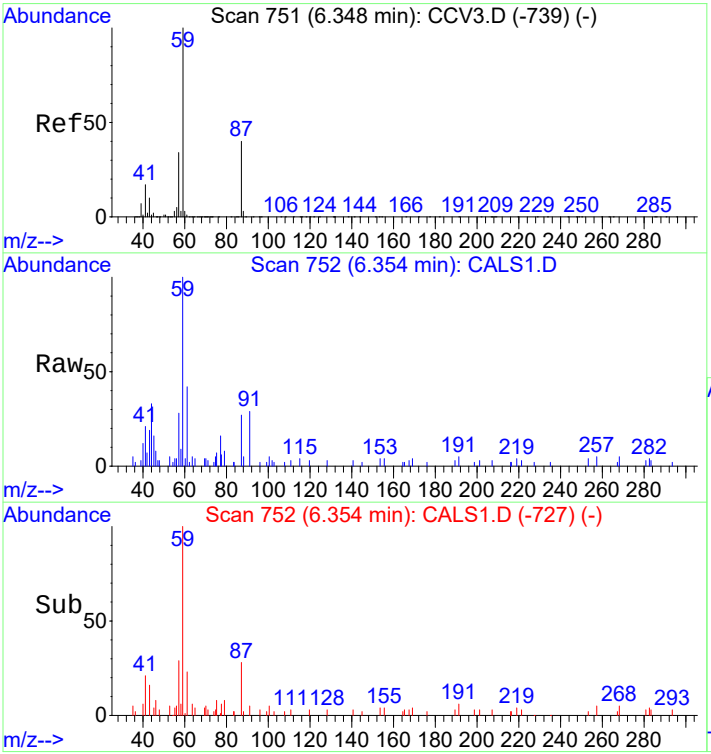
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 141 | 29.6 | 13.6 | 53.6 |
| 142 | 225.2 | 223.4 | 263.4 |




Before Manual Integration

RD 04/03/2025

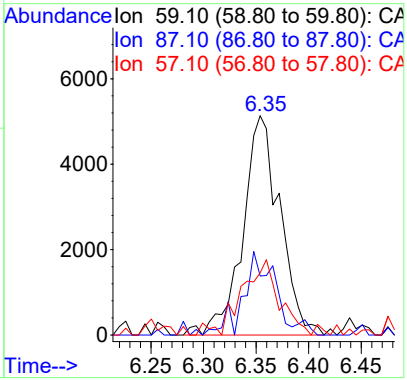
REASON # 2



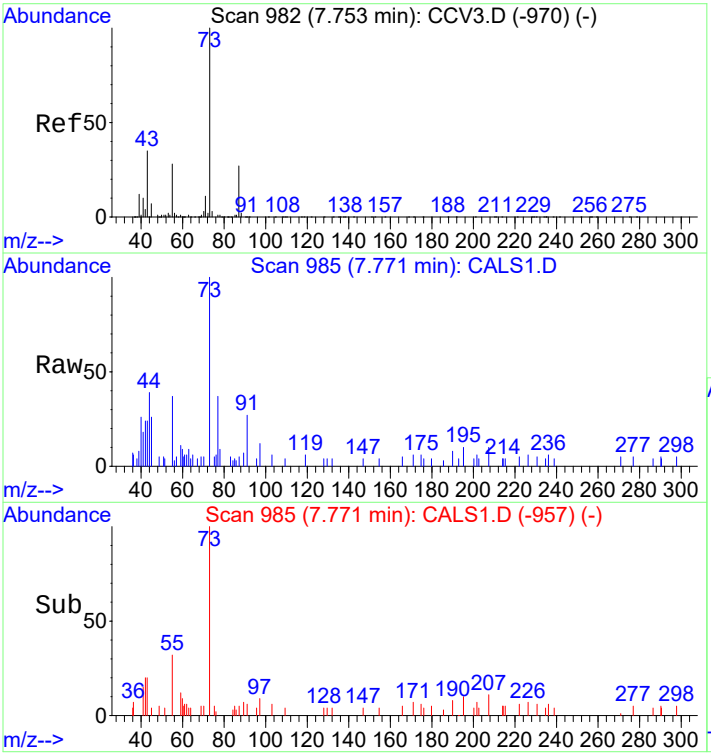

#30
ETBE
Concen: 0.05 mg/kg
RT: 6.35 min Scan# 752
Delta R.T. 0.00 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 59 Resp: 12676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 87 | 33.2 | 16.9 | 56.9 |
| 57 | 33.3 | 13.2 | 53.2 |



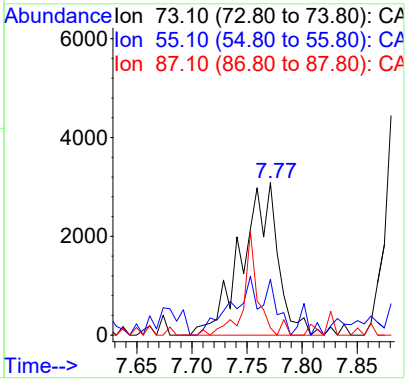

REASON # 2




#48
TAME
Concen: 0.07 mg/kg
RT: 7.77 min Scan# 985
Delta R.T. 0.02 min
Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 73 Resp: 7115

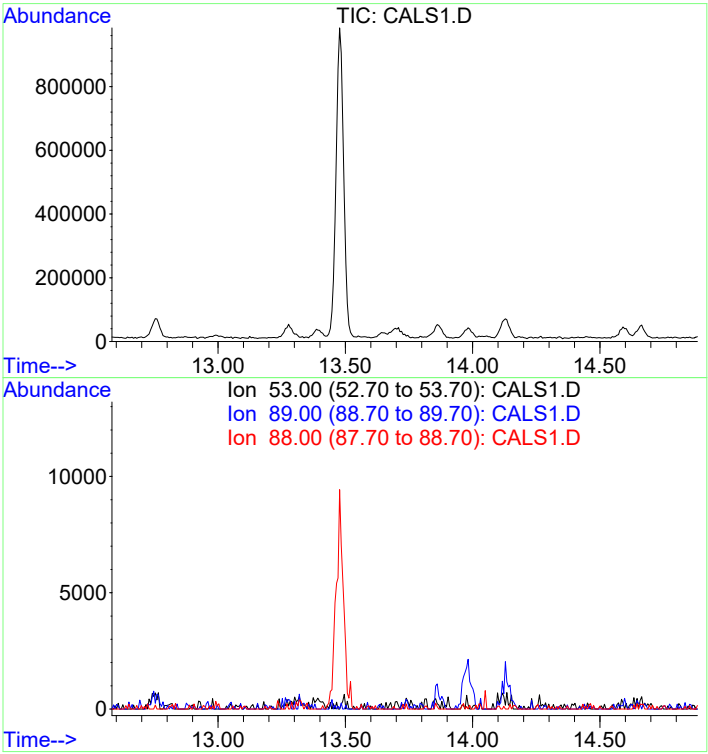
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 55 | 38.2 | 13.4 | 53.4 |
| 87 | 25.1 | 4.6 | 44.6 |




Before Manual Integration

RD 04/03/2025

REASON # 2




#86
14dichloro2butene
Concen: N.D.
Expected RT: 13.73 min

Lab File: CALS1.D
Acq: 25 Mar 2025 15:22

Tgt Ion: 53

| Sig | Exp Ratio |
|---|---|
| 53 | 100 |
| 89 | 72.8 |
| 88 | 48.8 |

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS2.D Vial: 5
Acq On : 25 Mar 2025 15:50 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.050/0.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:30:04 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:24:00 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1191513 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 897999 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 450866 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 328278 | 1.023 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 102 % | | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 77301 | 1.007 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1177394 | 1.002 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 433878 | 1.001 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.95 | 85 | 15887 | 0.0470 | mg/kg | 100 |
| 3) Chloromethan | 2.19 | 50 | 23461m | 0.0450 | mg/kg | 100 |
| 4) VinylChlorid | 2.39 | 62 | 17707 | 0.0426 | mg/kg | 93 |
| 5) Bromomethane | 2.83 | 94 | 13605m | 0.0708 | mg/kg# | 92 |
| 6) Chloroethane | 3.01 | 64 | 4450m | 0.0389 | mg/kg | 63 |
| 7) dichloroflmethane | 3.29 | 67 | 23676m | 0.0450 | mg/kg# | 81 |
| 8) Trichlorofma | 3.35 | 101 | 23297 | 0.0467 | mg/kg | 81 |
| 9) Ethylether | 3.90 | 59 | 13536 | 0.0475 | mg/kg | 89 |
| 10) dichlorotfluoroethan | 3.85 | 67 | 16290 | 0.0479 | mg/kg | 91 |
| 11) propyleneoxide | 4.10 | 58 | 25545 | 0.4746 | mg/kg | 94 |
| 12) Acrolein | 4.01 | 56 | 16501 | 0.2506 | mg/kg | 82 |
| 13) 11dichlorthe | 4.13 | 96 | 13288 | 0.0477 | mg/kg | 93 |
| 14) Trichlorotfluoroeth | 4.17 | 101 | 24227 | 0.0916 | mg/kg | 94 |
| 15) Acetone | 4.28 | 43 | 79357 | 0.5576 | mg/kg | 99 |
| 16) Iodomethane | 4.31 | 127 | 13635m | 0.1019 | mg/kg# | 85 |
| 17) Carbon Dislf | 4.40 | 76 | 71977 | 0.1004 | mg/kg | 95 |
| 18) allylchloride | 4.63 | 41 | 41151 | 0.0936 | mg/kg | 97 |
| 19) methylacetate | 4.73 | 74 | 11177 | 0.0480 | mg/kg | 91 |
| 20) Methylchlorid | 4.80 | 84 | 16932 | 0.0507 | mg/kg | 99 |
| 21) Acrylonitrile | 5.12 | 53 | 33966 | 0.2407 | mg/kg | 93 |
| 22) t12dichlorte | 5.17 | 96 | 14228 | 0.0478 | mg/kg | 98 |
| 23) tbutylalcohol | 5.12 | 59 | 69449 | 2.4541 | mg/kg | 97 |
| 24) MtBE | 5.26 | 73 | 31086 | 0.0480 | mg/kg | 95 |
| 25) Hexane | 5.57 | 57 | 43440 | 0.0902 | mg/kg | 93 |
| 26) 11dichlorota | 5.70 | 63 | 29111 | 0.0473 | mg/kg | 95 |
| 27) Vinylacetate | 5.82 | 43 | 272931 | 0.5842 | mg/kg | 99 |
| 28) chloroprene | 5.84 | 53 | 43312 | 0.0908 | mg/kg | 98 |
| 29) Diisopether | 5.89 | 45 | 50183 | 0.0493 | mg/kg | 95 |
| 30) ETBE | 6.35 | 59 | 23056 | 0.0492 | mg/kg | 99 |
| 31) 22dichloropr | 6.46 | 77 | 22722 | 0.0536 | mg/kg | 94 |
| 32) c12dichlorte | 6.46 | 96 | 15681 | 0.0478 | mg/kg | 90 |
| 33) 2Butanone | 6.51 | 72 | 18642 | 0.4986 | mg/kg | 99 |
| 34) propionitrile | 6.54 | 54 | 28655 | 0.5230 | mg/kg | 98 |
| 35) Ethylacetate | 6.61 | 88 | 2059 | 0.2801 | mg/kg# | 89 |
| 36) methacrylonitrile | 6.73 | 67 | 10991 | 0.0889 | mg/kg | 86 |
| 37) Bromochlorma | 6.75 | 128 | 6202 | 0.0427 | mg/kg# | 68 |
| 38) Tetrahydofur | 6.89 | 42 | 54654 | 0.5079 | mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS2.D Vial: 5
Acq On : 25 Mar 2025 15:50 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.050/0.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:30:04 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:24:00 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 26606 | 0.0495 | mg/kg | 98 |
| 40) | 111trichlota | 7.09 | 97 | 22288 | 0.0477 | mg/kg | 95 |
| 42) | Cyclohexane | 7.19 | 56 | 24811 | 0.0443 | mg/kg | 95 |
| 43) | Carbtetraclo | 7.32 | 119 | 17735 | 0.0444 | mg/kg | 94 |
| 44) | 11dicloprope | 7.31 | 110 | 6584 | 0.0464 | mg/kg# | 76 |
| 46) | Benzene | 7.55 | 78 | 58039 | 0.0485 | mg/kg | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 21979 | 0.0499 | mg/kg | 98 |
| 48) | TAME | 7.77 | 73 | 12332 | 0.0478 | mg/kg | 94 |
| 49) | trichloroete | 8.37 | 95 | 15786 | 0.0497 | mg/kg | 92 |
| 50) | methylcyclohexane | 8.64 | 83 | 19863 | 0.0411 | mg/kg | 90 |
| 51) | 12dicloropra | 8.63 | 63 | 18225 | 0.0492 | mg/kg# | 97 |
| 52) | 23dicl1propene | 8.68 | 75 | 21162 | 0.0455 | mg/kg | 90 |
| 53) | Dibromometha | 8.76 | 93 | 8816 | 0.0472 | mg/kg | 93 |
| 54) | methylmethacrylate | 8.81 | 69 | 8343 | 0.0447 | mg/kg | 84 |
| 55) | 14dioxane | 8.86 | 88 | 8036 | 2.2237 | mg/kg# | 61 |
| 56) | Bromodiclrma | 8.96 | 83 | 18593 | 0.0459 | mg/kg | 98 |
| 57) | 2Nitropropane | 9.23 | 43 | 40383 | 0.4215 | mg/kg | 89 |
| 58) | c13dicloproe | 9.55 | 75 | 20474 | 0.0437 | mg/kg | 95 |
| 59) | 4Meth2Pentan | 9.77 | 43 | 137823 | 0.4880 | mg/kg | 98 |
| 61) | Toluene | 10.00 | 92 | 35882 | 0.0490 | mg/kg | 98 |
| 62) | t13Dicloprop | 10.26 | 75 | 18098 | 0.0444 | mg/kg | 95 |
| 63) | ethylmethacrylate | 10.42 | 69 | 27695 | 0.0895 | mg/kg | 97 |
| 64) | 112Triclotha | 10.50 | 83 | 11643 | 0.0513 | mg/kg | 93 |
| 65) | Tetrachlorte | 10.75 | 166 | 16152 | 0.0481 | mg/kg | 91 |
| 66) | 13Diclorpropa | 10.72 | 76 | 21887 | 0.0491 | mg/kg | 96 |
| 68) | 2Hexanone | 10.86 | 43 | 95935 | 0.4768 | mg/kg | 99 |
| 69) | Clorodibrmta | 11.01 | 129 | 12959 | 0.0443 | mg/kg | 94 |
| 70) | 12Dibrometha | 11.18 | 107 | 12993 | 0.0472 | mg/kg | 97 |
| 71) | Chlorobenzen | 11.87 | 112 | 36344 | 0.0450 | mg/kg | 89 |
| 72) | 1Clhexane | 11.85 | 91 | 19427 | 0.0490 | mg/kg# | 62 |
| 73) | 1112Tetclota | 11.99 | 131 | 13053 | 0.0470 | mg/kg | 99 |
| 74) | Ethylbenzene | 12.04 | 91 | 60825 | 0.0455 | mg/kg | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 46191 | 0.0885 | mg/kg | 96 |
| 76) | o-Xylene | 12.75 | 106 | 22490 | 0.0456 | mg/kg | 97 |
| 77) | Styrene | 12.77 | 104 | 32583 | 0.0419 | mg/kg | 98 |
| 78) | Bromoform | 12.98 | 173 | 8737 | 0.0484 | mg/kg | 97 |
| 79) | Isopropylben | 13.28 | 105 | 55151 | 0.0434 | mg/kg | 100 |
| 81) | cyclohexanone | 13.39 | 55 | 30660 | 0.8888 | mg/kg | 98 |
| 83) | Bromobenzene | 13.69 | 156 | 15163 | 0.0491 | mg/kg | 98 |
| 84) | 1122Tetrclta | 13.65 | 83 | 17626 | 0.0505 | mg/kg | 98 |
| 85) | 123Triclproa | 13.71 | 75 | 16191 | 0.0469 | mg/kg | 93 |
| 86) | 14dichloro2butene | 13.75 | 53 | 1228 | 0.0417 | mg/kg# | 19 |
| 87) | n-Propylbenz | 13.86 | 91 | 71772 | 0.0471 | mg/kg | 96 |
| 88) | 2chlorotolue | 13.98 | 91 | 40426 | 0.0449 | mg/kg | 98 |
| 89) | 4chlorotolue | 14.13 | 91 | 47795 | 0.0457 | mg/kg | 98 |
| 90) | 135Trimebenz | 14.13 | 105 | 44029 | 0.0421 | mg/kg | 96 |
| 91) | tbutylbenzen | 14.60 | 119 | 37837 | 0.0429 | mg/kg | 92 |
| 92) | 124Trimetben | 14.66 | 105 | 46422 | 0.0449 | mg/kg | 96 |
| 93) | sbutylbenzen | 14.91 | 105 | 56900 | 0.0428 | mg/kg | 97 |
| 94) | 13Diclorbenz | 15.06 | 146 | 26283 | 0.0446 | mg/kg | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 47002 | 0.0419 | mg/kg | 98 |
| 96) | 14dichlorobe | 15.18 | 146 | 28451 | 0.0474 | mg/kg# | 81 |
| 97) | 12dichlorobe | 15.73 | 146 | 27017 | 0.0490 | mg/kg# | 75 |
| 98) | nButylbenzen | 15.72 | 91 | 50019 | 0.0455 | mg/kg | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 2567 | 0.0438 | mg/kg | 83 |
| 100) | 135Trichlorobenzene | 17.13 | 180 | 18262 | 0.0467 | mg/kg | 95 |
| 101) | 124Trichlobe | 17.94 | 180 | 16310 | 0.0492 | mg/kg | 94 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS2.D Vial: 5
Acq On : 25 Mar 2025 15:50 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.050/0.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:30:04 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:24:00 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 9063 | 0.0468 | mg/kg | 97 |
| 103) Naphthalene | 18.25 | 128 | 31495 | 0.0444 | mg/kg | 99 |
| 104) 123Trichlben | 18.56 | 180 | 13952 | 0.0492 | mg/kg | 90 |

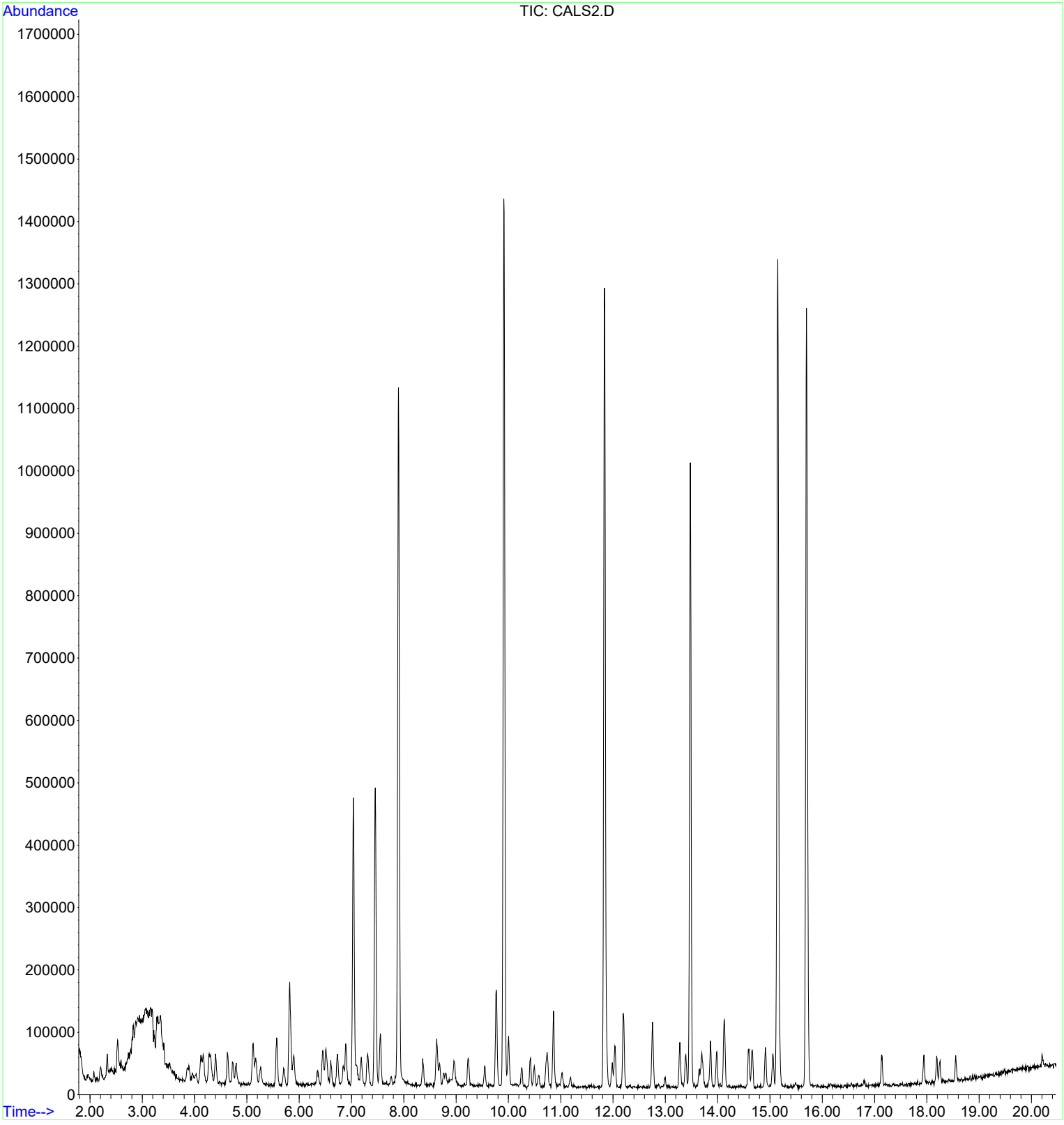
(#) = qualifier out of range (m) = manual integration

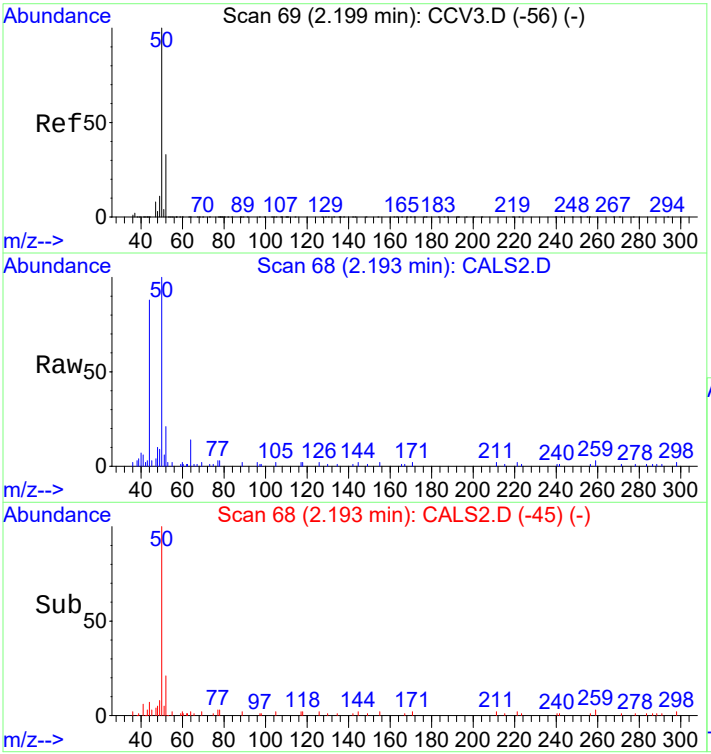
Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS2.D  Vial: 5
Acq On : 25 Mar 2025 15:50  Operator: RLD-DGS
Sample : CALIB. PT. 2  Inst : VMS4
Misc : 0.050/0.50 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:30:04 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:24:00 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

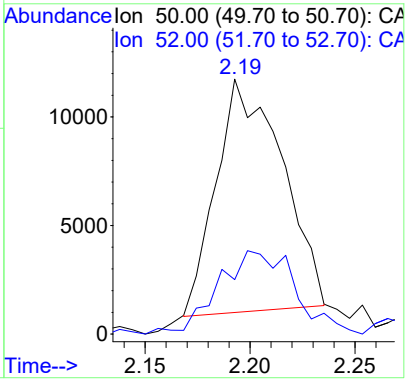





#3
Chloromethan
Concen: 0.04 mg/kg m
RT: 2.19 min Scan# 68
Delta R.T. -0.01 min
Lab File: CALS2.D
Acq: 25 Mar 2025 15:50

Tgt Ion: 50 Resp: 23461

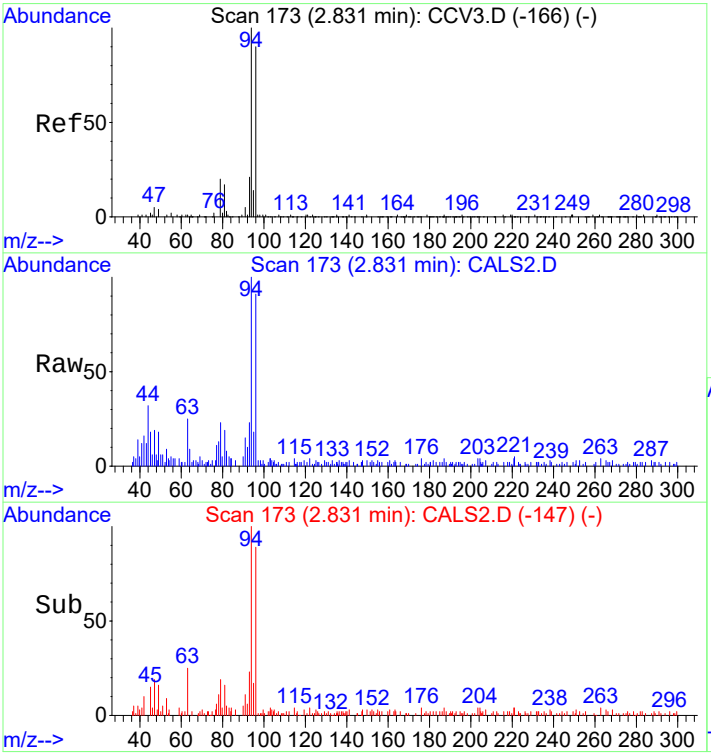
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 41.6 | 11.6 | 51.6 |




After Manual Integration

RD 04/03/2025

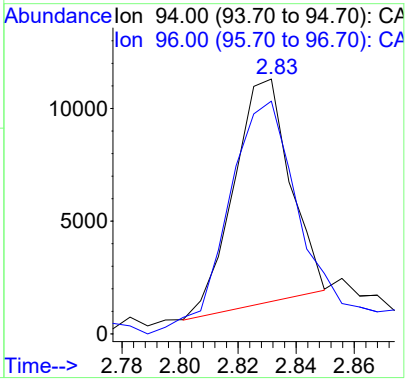
DGS 04/03/2025

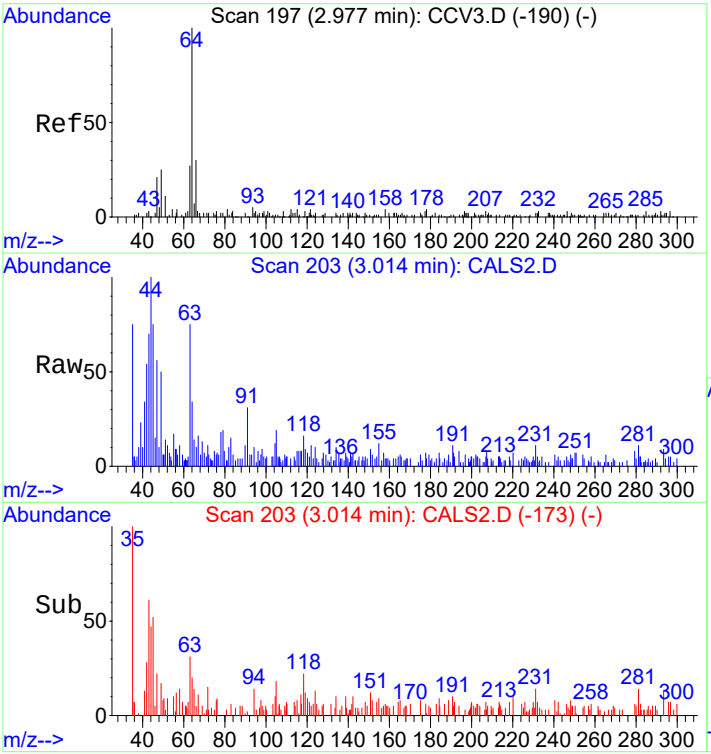



#5
Bromomethane
Concen: 0.07 mg/kg m
RT: 2.83 min Scan# 173
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 25 Mar 2025 15:50

Tgt Ion: 94 Resp: 13605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 158.5 | 84.1 | 124.1# |

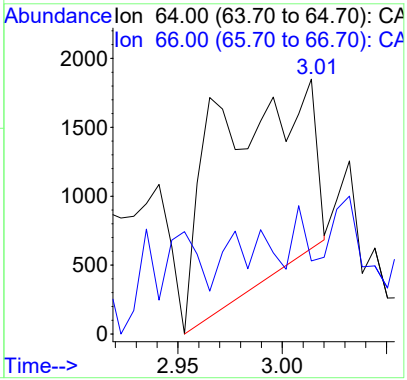





#6
Chloroethane
Concen: 0.04 mg/kg m
RT: 3.01 min Scan# 203
Delta R.T. 0.03 min
Lab File: CALS2.D
Acq: 25 Mar 2025 15:50

Tgt Ion: 64 Resp: 4450

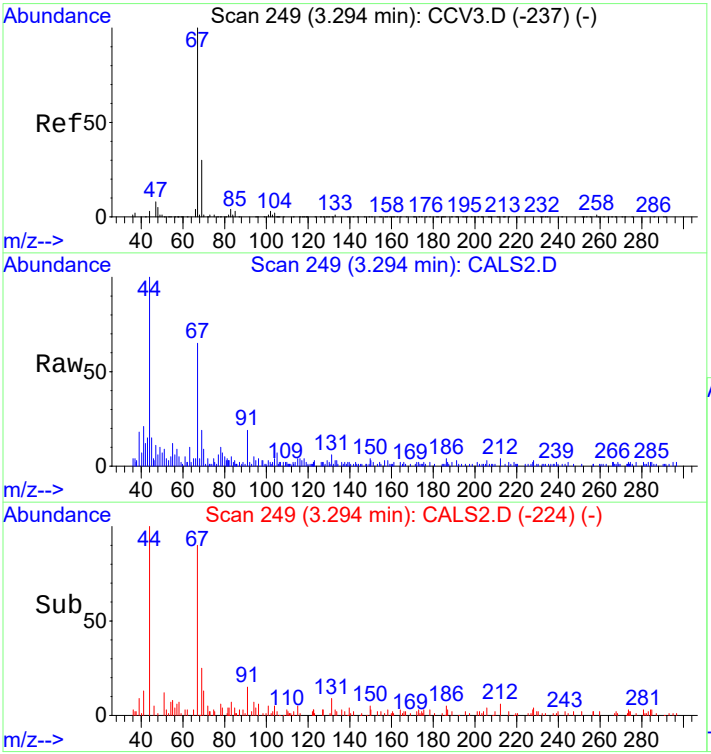
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 23.6 | 16.2 | 56.2 |




After Manual Integration

RD 04/03/2025

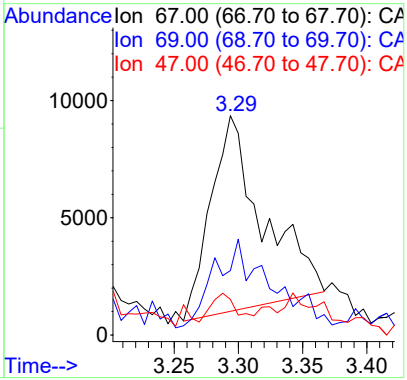
JDG 04/03/2025

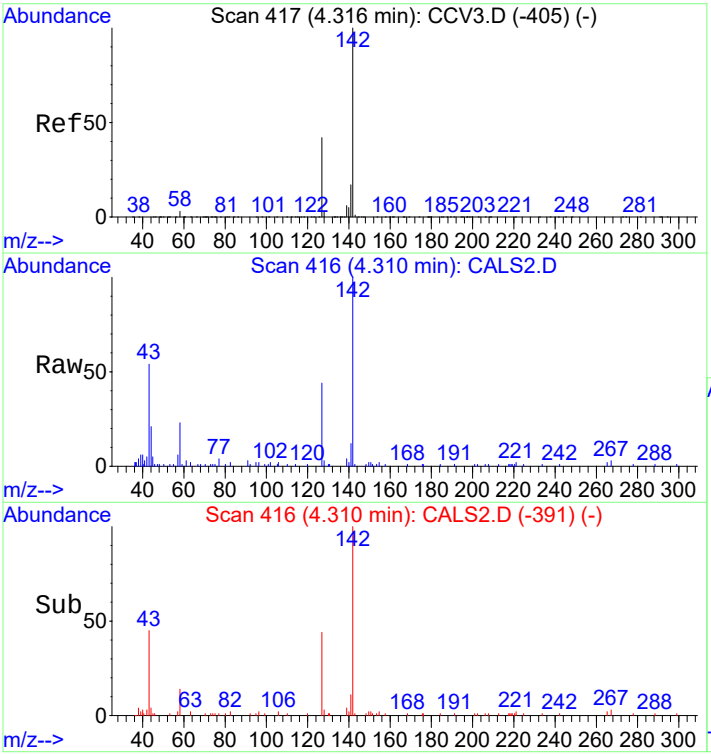



#7
dichloroflmethane
Concen: 0.04 mg/kg m
RT: 3.29 min Scan# 249
Delta R.T. -0.00 min
Lab File: CALS2.D
Acq: 25 Mar 2025 15:50

Tgt Ion: 67 Resp: 23676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 67 | 100 | | |
| 69 | 49.1 | 11.9 | 51.9 |
| 47 | 36.9 | 0.0 | 25.7# |

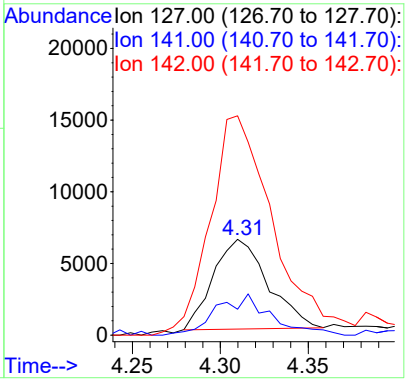





#16
Iodomethane
Concen: 0.10 mg/kg m
RT: 4.31 min Scan# 416
Delta R.T. -0.00 min
Lab File: CALS2.D
Acq: 25 Mar 2025 15:50

Tgt Ion:127 Resp: 13635

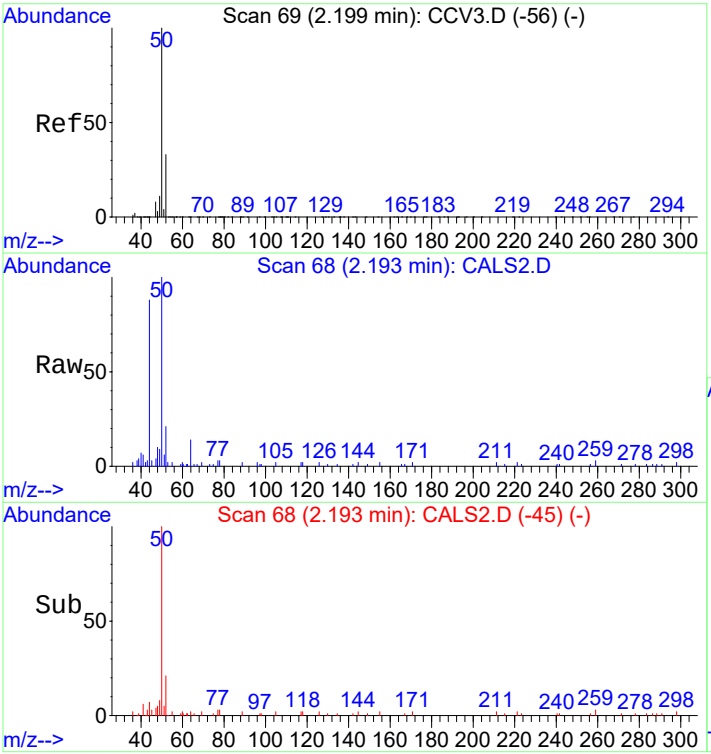
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 141 | 45.0 | 13.6 | 53.6 |
| 142 | 281.2 | 223.4 | 263.4# |




After Manual Integration

RD 04/03/2025

DGS 04/03/2025



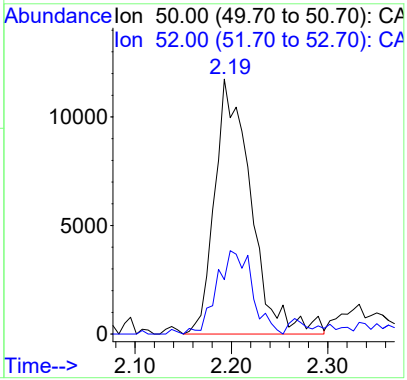

#3
Chloromethan
Concen: 0.06 mg/kg
RT: 2.19 min Scan# 68
Delta R.T. -0.01 min
Lab File: CALS2.D
Acq: 25 Mar 2025 15:50

Tgt Ion: 50 Resp: 30689

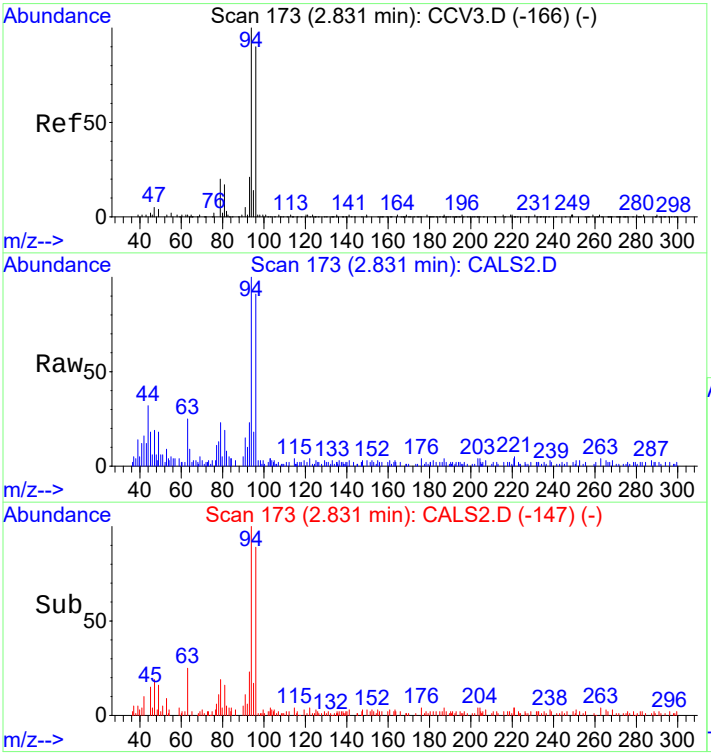
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.8 | 11.6 | 51.6 |

Before Manual Integration

RD 04/03/2025



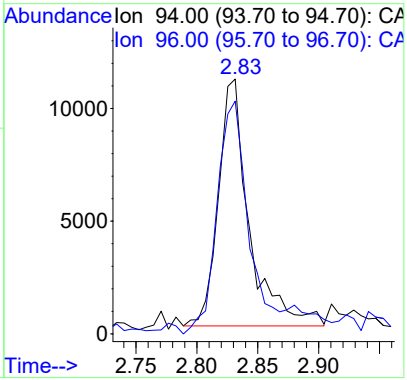

REASON # 2



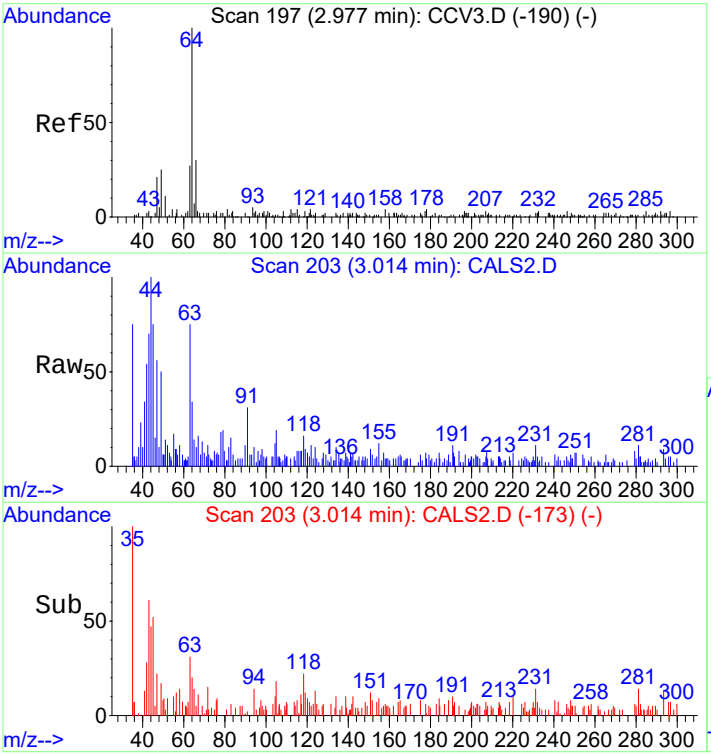

#5
Bromomethane
Concen: 0.07 mg/kg
RT: 2.83 min Scan# 173
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 25 Mar 2025 15:50

Tgt Ion: 94 Resp: 19285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 111.8 | 84.1 | 124.1 |




REASON # 2



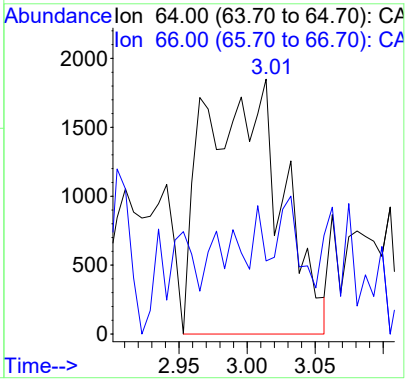

#6
Chloroethane
Concen: 0.09 mg/kg
RT: 3.01 min Scan# 203
Delta R.T. 0.03 min
Lab File: CALS2.D
Acq: 25 Mar 2025 15:50

Tgt Ion: 64 Resp: 7218

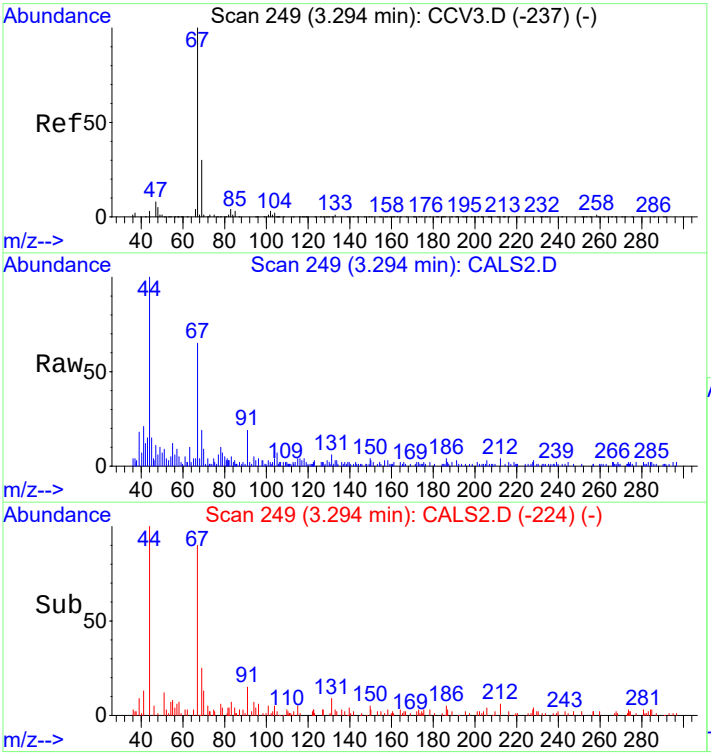
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 14.5 | 16.2 | 56.2# |

Before Manual Integration

RD 04/03/2025



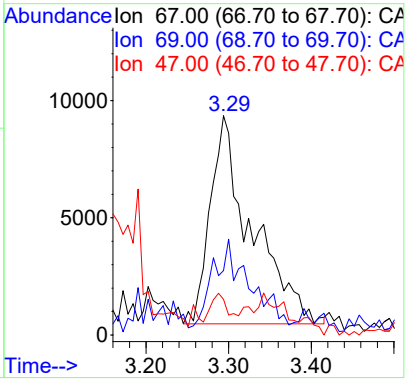

REASON # 2



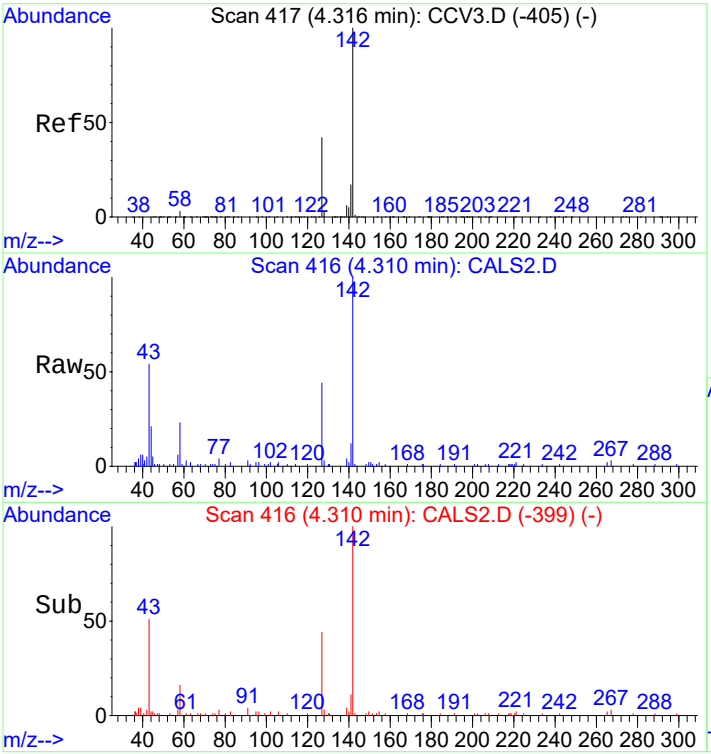

#7
dichloroflmethane
Concen: 0.06 mg/kg
RT: 3.29 min Scan# 249
Delta R.T. 0.00 min
Lab File: CALS2.D
Acq: 25 Mar 2025 15:50

Tgt Ion: 67 Resp: 30927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 67 | 100 | | |
| 69 | 37.6 | 11.9 | 51.9 |
| 47 | 28.2 | 0.0 | 25.7# |



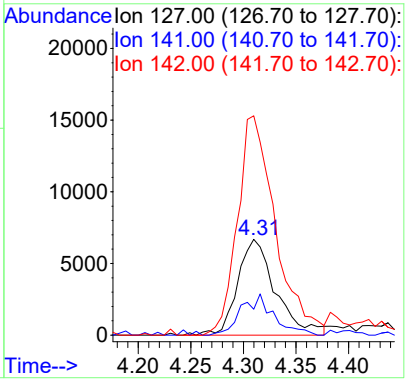

REASON # 2




#16
Iodomethane
Concen: 0.24 mg/kg
RT: 4.31 min Scan# 416
Delta R.T. 0.00 min
Lab File: CALS2.D
Acq: 25 Mar 2025 15:50

Tgt Ion:127 Resp: 16881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 141 | 36.4 | 13.6 | 53.6 |
| 142 | 227.1 | 223.4 | 263.4 |




Before Manual Integration

RO 04/03/2025

REASON # 2

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS3.D Vial: 6
Acq On : 25 Mar 2025 16:18 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:30:43 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:22:14 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1155385 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 883881 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 448887 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 313274 | 0.997 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 79337 | 1.075 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 108 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1131409 | 0.996 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 427415 | 1.002 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.96 | 85 | 32897 | 0.1031 | mg/kg | 93 |
| 3) Chloromethan | 2.20 | 50 | 51301 | 0.0841 | mg/kg | 91 |
| 4) VinylChlorid | 2.38 | 62 | 36301 | 0.0942 | mg/kg | 81 |
| 5) Bromomethane | 2.83 | 94 | 24978m | 0.0967 | mg/kg | 90 |
| 6) Chloroethane | 2.97 | 64 | 8655 | 0.0457 | mg/kg# | 21 |
| 7) dichloroflmethane | 3.30 | 67 | 60788 | 0.1027 | mg/kg | 91 |
| 8) Trichlorofma | 3.35 | 101 | 55311 | 0.1129 | mg/kg | 96 |
| 9) Ethylether | 3.90 | 59 | 28482 | 0.1044 | mg/kg | 96 |
| 10) dichlorotfluoroethan | 3.85 | 67 | 33178 | 0.0987 | mg/kg | 99 |
| 11) propyleneoxide | 4.11 | 58 | 50741 | 0.9140 | mg/kg | 84 |
| 12) Acrolein | 4.01 | 56 | 32180 | 0.4888 | mg/kg | 98 |
| 13) 11dichlorthe | 4.13 | 96 | 25342 | 0.0899 | mg/kg | 89 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 50778 | 0.1960 | mg/kg | 99 |
| 15) Acetone | 4.27 | 43 | 144795 | 0.9052 | mg/kg | 96 |
| 16) Iodomethane | 4.30 | 127 | 19795m | 0.1035 | mg/kg# | 95 |
| 17) Carbon Dislf | 4.41 | 76 | 138912 | 0.1841 | mg/kg | 98 |
| 18) allylchloride | 4.63 | 41 | 91434 | 0.2139 | mg/kg | 97 |
| 19) methylacetate | 4.74 | 74 | 22443 | 0.0983 | mg/kg | 90 |
| 20) Methylchlorid | 4.79 | 84 | 35767 | 0.1038 | mg/kg | 91 |
| 21) Acrylonitrile | 5.12 | 53 | 73069 | 0.5270 | mg/kg | 96 |
| 22) t12dichlorte | 5.17 | 96 | 28229 | 0.0941 | mg/kg | 91 |
| 23) tbutylalcohol | 5.11 | 59 | 138938 | 5.0887 | mg/kg | 96 |
| 24) MtBE | 5.26 | 73 | 63878 | 0.1040 | mg/kg | 95 |
| 25) Hexane | 5.57 | 57 | 90301 | 0.1971 | mg/kg | 99 |
| 26) 11dichlorota | 5.70 | 63 | 62651 | 0.1031 | mg/kg | 99 |
| 27) Vinylacetate | 5.81 | 43 | 535911 | 1.0968 | mg/kg | 98 |
| 28) chloroprene | 5.84 | 53 | 90327 | 0.1965 | mg/kg | 99 |
| 29) Diisopether | 5.89 | 45 | 103090 | 0.1021 | mg/kg | 97 |
| 30) ETBE | 6.35 | 59 | 45067 | 0.0998 | mg/kg | 98 |
| 31) 22dichloropr | 6.46 | 77 | 43846 | 0.0990 | mg/kg | 96 |
| 32) c12dichlorte | 6.44 | 96 | 32355 | 0.1003 | mg/kg | 100 |
| 33) 2Butanone | 6.51 | 72 | 37895 | 1.0313 | mg/kg | 98 |
| 34) propionitrile | 6.53 | 54 | 57349 | 1.0390 | mg/kg | 99 |
| 35) Ethylacetate | 6.60 | 88 | 3830 | 0.5254 | mg/kg# | 93 |
| 36) methacrylonitrile | 6.72 | 67 | 24678 | 0.2019 | mg/kg | 98 |
| 37) Bromochlorma | 6.74 | 128 | 16114 | 0.1130 | mg/kg# | 91 |
| 38) Tetrahydofur | 6.89 | 42 | 114423 | 1.0450 | mg/kg | 96 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS3.D Vial: 6
Acq On : 25 Mar 2025 16:18 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:30:43 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:22:14 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 6.84 | 83 | 56138 | 0.1060 mg/kg | 97 |
| 40) 111trichlota | 7.10 | 97 | 46040 | 0.1015 mg/kg | 93 |
| 42) Cyclohexane | 7.19 | 56 | 53424 | 0.1001 mg/kg | 93 |
| 43) Carbtetraclo | 7.31 | 119 | 36871 | 0.0973 mg/kg | 93 |
| 44) 11dicloprope | 7.30 | 110 | 14281 | 0.1071 mg/kg | 95 |
| 46) Benzene | 7.55 | 78 | 117054 | 0.0977 mg/kg | 95 |
| 47) 12dichlorota | 7.55 | 62 | 43461 | 0.1013 mg/kg | 97 |
| 48) TAME | 7.77 | 73 | 24754 | 0.1043 mg/kg | 96 |
| 49) trichloroete | 8.36 | 95 | 31249 | 0.1013 mg/kg | 96 |
| 50) methylcyclohexane | 8.64 | 83 | 43834 | 0.0988 mg/kg | 93 |
| 51) 12dicloropra | 8.63 | 63 | 37185 | 0.0993 mg/kg | 95 |
| 52) 23dicl1propene | 8.68 | 75 | 45157 | 0.1034 mg/kg | 95 |
| 53) Dibromometha | 8.77 | 93 | 17411 | 0.0980 mg/kg | 92 |
| 54) methylmethacrylate | 8.80 | 69 | 17007 | 0.0988 mg/kg | 94 |
| 55) 14dioxane | 8.85 | 88 | 17195 | 5.0306 mg/kg | 96 |
| 56) Bromodiclrma | 8.96 | 83 | 41416 | 0.1090 mg/kg | 100 |
| 57) 2Nitropropane | 9.23 | 43 | 88005 | 1.0119 mg/kg | 96 |
| 58) c13dicloproe | 9.54 | 75 | 45463 | 0.1010 mg/kg | 96 |
| 59) 4Meth2Pentan | 9.77 | 43 | 289474 | 1.0318 mg/kg | 97 |
| 61) Toluene | 10.00 | 92 | 71318 | 0.0988 mg/kg | 99 |
| 62) t13Dicloprop | 10.25 | 75 | 38532 | 0.0971 mg/kg | 97 |
| 63) ethylmethacrylate | 10.42 | 69 | 54274 | 0.1881 mg/kg | 99 |
| 64) 112Triclotha | 10.49 | 83 | 21715 | 0.0959 mg/kg | 93 |
| 65) Tetrachlorte | 10.74 | 166 | 32549 | 0.0895 mg/kg | 98 |
| 66) 13Diclorpropa | 10.72 | 76 | 42334 | 0.0970 mg/kg | 97 |
| 68) 2Hexanone | 10.86 | 43 | 199099 | 0.9815 mg/kg | 98 |
| 69) Clorodibrmta | 11.03 | 129 | 29359 | 0.1074 mg/kg | 98 |
| 70) 12Dibrometha | 11.18 | 107 | 26583 | 0.0974 mg/kg | 95 |
| 71) Chlorobenzen | 11.87 | 112 | 82457 | 0.1034 mg/kg | 92 |
| 72) 1Clhexane | 11.85 | 91 | 38665 | 0.0962 mg/kg | 88 |
| 73) 1112Tetclota | 11.98 | 131 | 26361 | 0.0995 mg/kg | 94 |
| 74) Ethylbenzene | 12.04 | 91 | 130080 | 0.1017 mg/kg | 97 |
| 75) m p-Xylene | 12.20 | 106 | 95152 | 0.1838 mg/kg | 94 |
| 76) o-Xylene | 12.75 | 106 | 47173 | 0.1019 mg/kg | 93 |
| 77) Styrene | 12.77 | 104 | 68102 | 0.0936 mg/kg | 92 |
| 78) Bromoform | 13.00 | 173 | 16074 | 0.0920 mg/kg | 88 |
| 79) Isopropylben | 13.28 | 105 | 119914 | 0.1006 mg/kg | 99 |
| 81) cyclohexanone | 13.39 | 55 | 70664 | 2.1156 mg/kg | 97 |
| 83) Bromobenzene | 13.69 | 156 | 31676 | 0.1019 mg/kg | 97 |
| 84) 1122Tetrclta | 13.65 | 83 | 34367 | 0.0967 mg/kg | 89 |
| 85) 123Triclproa | 13.71 | 75 | 36220 | 0.1092 mg/kg | 92 |
| 86) 14dichloro2butene | 13.74 | 53 | 3145 | 0.1236 mg/kg | 90 |
| 87) n-Propylbenz | 13.86 | 91 | 148836 | 0.0991 mg/kg | 100 |
| 88) 2chlorotolue | 13.98 | 91 | 92347 | 0.1043 mg/kg | 97 |
| 89) 4chlorotolue | 14.13 | 91 | 101693 | 0.0988 mg/kg | 99 |
| 90) 135Trimebenz | 14.12 | 105 | 95829 | 0.0967 mg/kg | 96 |
| 91) tbutylbenzen | 14.59 | 119 | 82486 | 0.0987 mg/kg | 99 |
| 92) 124Trimetben | 14.66 | 105 | 98965 | 0.1018 mg/kg | 98 |
| 93) sbutylbenzen | 14.92 | 105 | 127785 | 0.1012 mg/kg | 99 |
| 94) 13Diclorbenz | 15.06 | 146 | 57749 | 0.0965 mg/kg | 97 |
| 95) pIsopropylto | 15.13 | 119 | 102720 | 0.0971 mg/kg | 99 |
| 96) 14dichlorobe | 15.19 | 146 | 63184 | 0.1054 mg/kg | 98 |
| 97) 12dichlorobe | 15.73 | 146 | 57800 | 0.1030 mg/kg | 91 |
| 98) nButylbenzen | 15.73 | 91 | 101543 | 0.0921 mg/kg | 99 |
| 99) 12dibromo3cl | 16.80 | 157 | 5751 | 0.1079 mg/kg | 93 |
| 100) 135Trichlorobenzene | 17.15 | 180 | 36699 | 0.0961 mg/kg | 93 |
| 101) 124Trichlobe | 17.95 | 180 | 31855 | 0.0971 mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS3.D Vial: 6
Acq On : 25 Mar 2025 16:18 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:30:43 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:22:14 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 18307 | 0.0941 | mg/kg | 96 |
| 103) Naphthalene | 18.24 | 128 | 66222 | 0.1000 | mg/kg | 98 |
| 104) 123Trichlben | 18.56 | 180 | 27366 | 0.0980 | mg/kg | 93 |

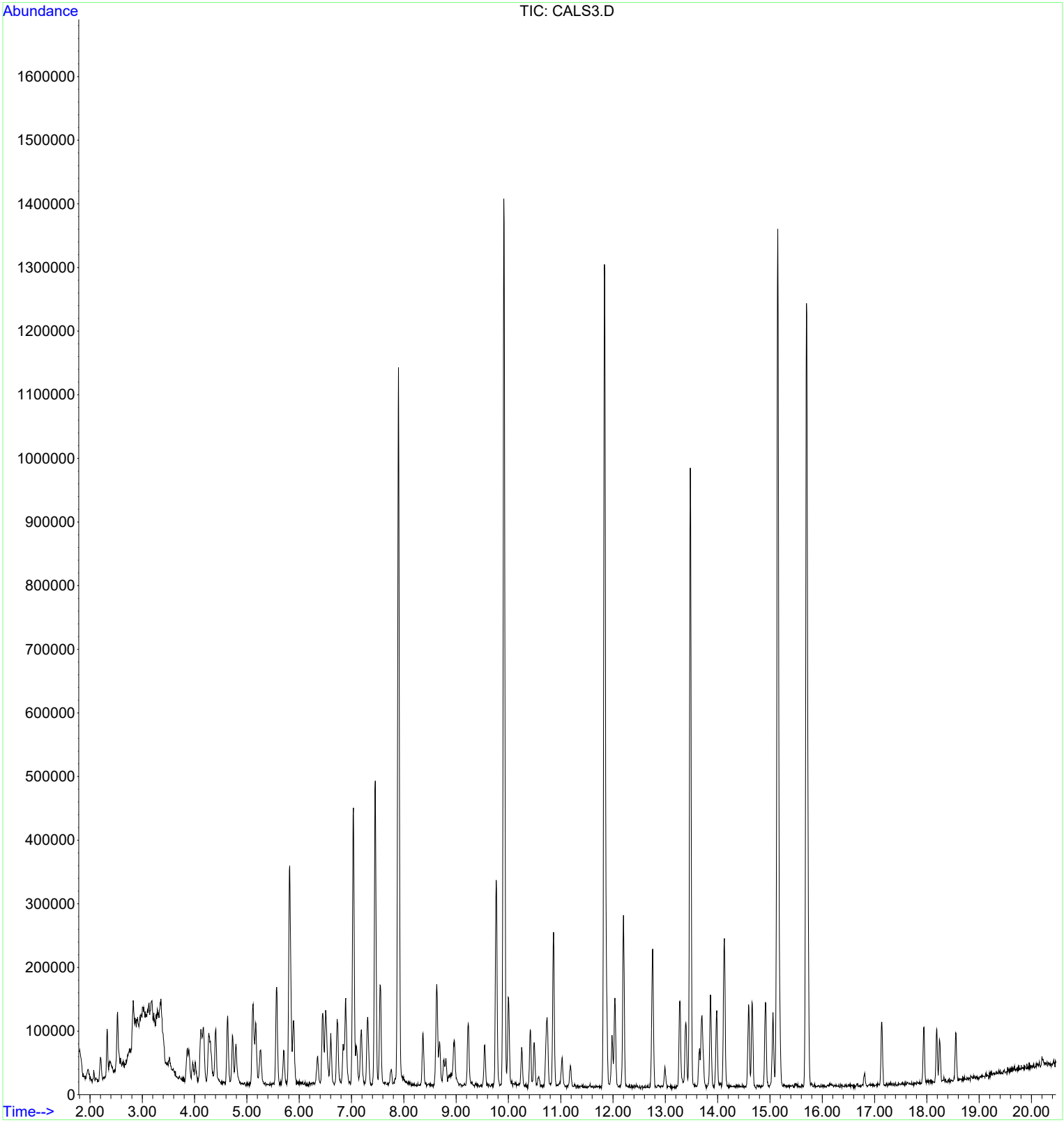
(#) = qualifier out of range (m) = manual integration

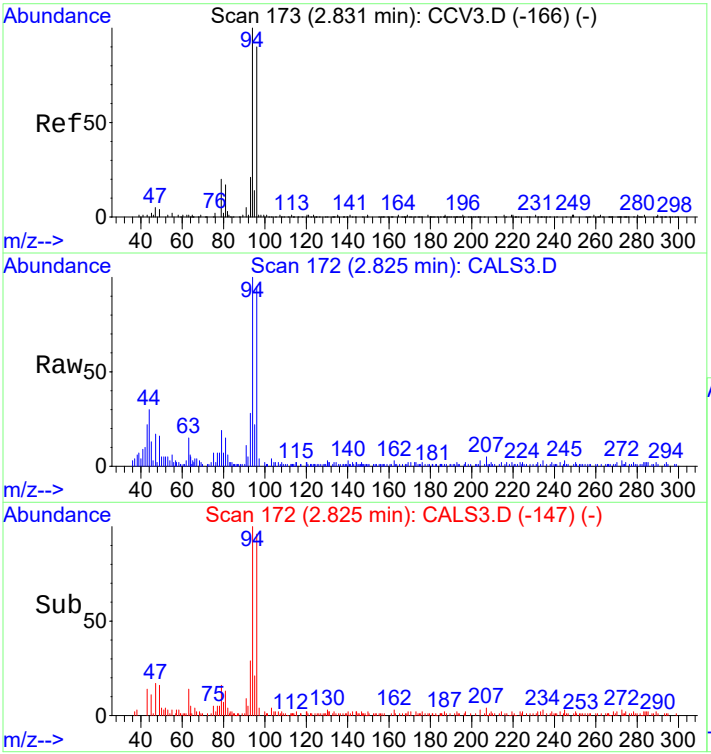
Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS3.D Vial: 6
Acq On : 25 Mar 2025 16:18 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:30:43 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:22:14 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

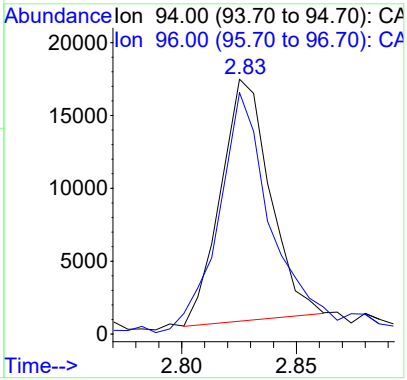


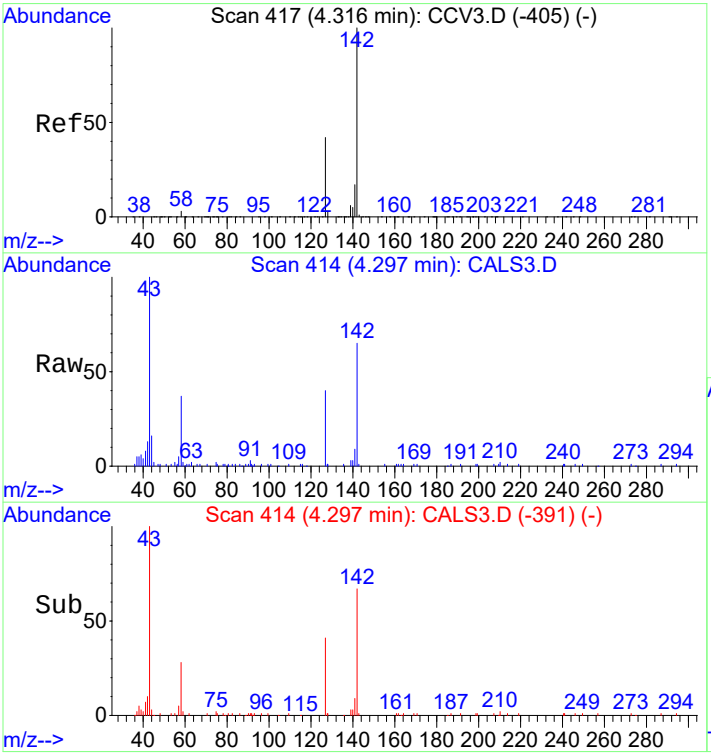



#5
Bromomethane
Concen: 0.10 mg/kg m
RT: 2.83 min Scan# 172
Delta R.T. -0.00 min
Lab File: CALS3.D
Acq: 25 Mar 2025 16:18

Tgt Ion: 94 Resp: 24978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 119.4 | 84.1 | 124.1 |

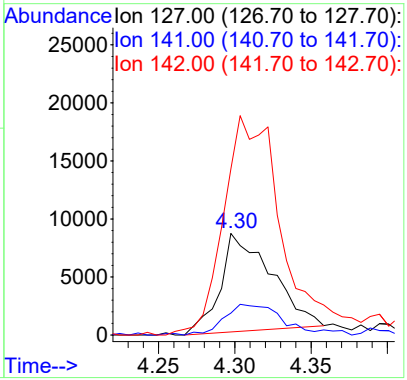



#16
Iodomethane
Concen: 0.10 mg/kg m
RT: 4.30 min Scan# 414
Delta R.T. -0.01 min
Lab File: CALS3.D
Acq: 25 Mar 2025 16:18

Tgt Ion:127 Resp: 19795

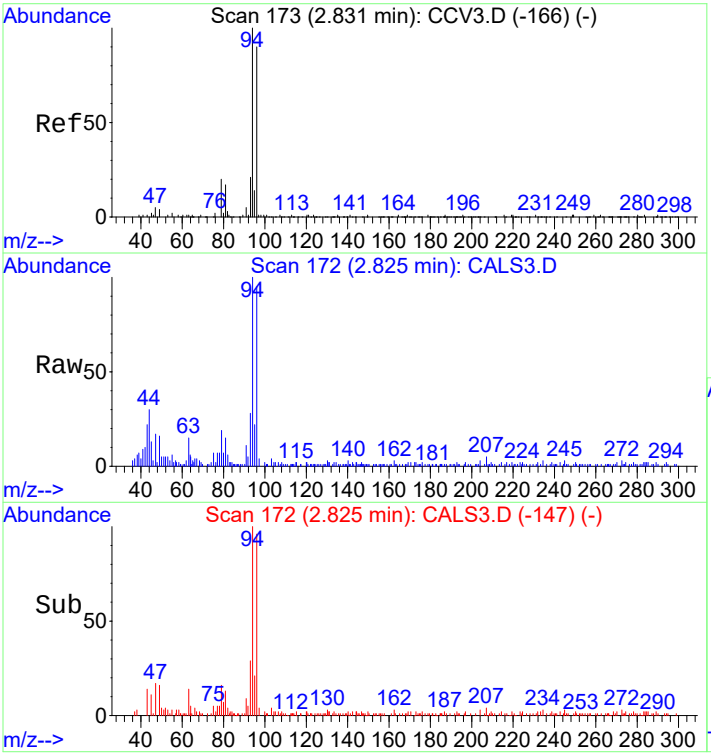
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 141 | 36.8 | 13.6 | 53.6 |
| 142 | 274.9 | 223.4 | 263.4# |




After Manual Integration

RO 04/03/2025

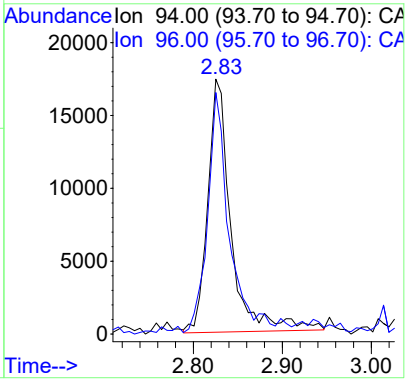
DGS 04/03/2025




#5
Bromomethane
Concen: 0.17 mg/kg
RT: 2.83 min Scan# 172
Delta R.T. 0.00 min
Lab File: CALS3.D
Acq: 25 Mar 2025 16:18

Tgt Ion: 94 Resp: 31610

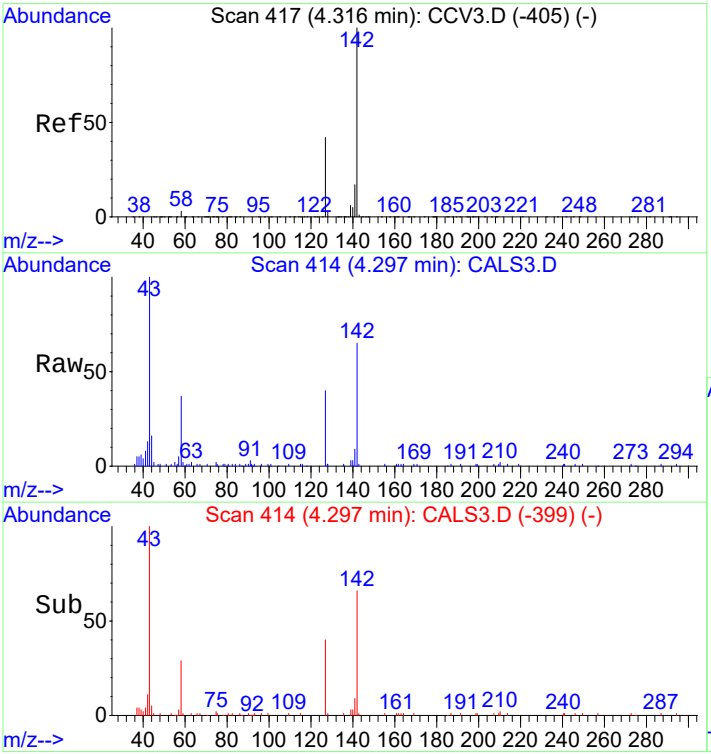
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.4 | 84.1 | 124.1 |




Before Manual Integration

RD 04/03/2025

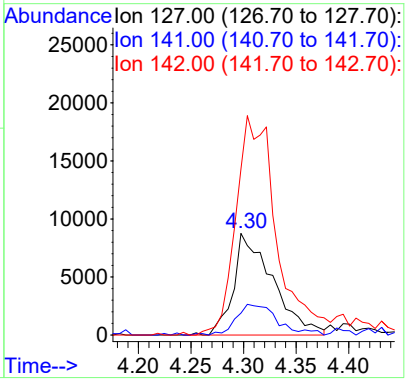
REASON # 2




#16
Iodomethane
Concen: 0.31 mg/kg
RT: 4.30 min Scan# 414
Delta R.T. -0.01 min
Lab File: CALS3.D
Acq: 25 Mar 2025 16:18

Tgt Ion:127 Resp: 22816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 141 | 31.9 | 13.6 | 53.6 |
| 142 | 222.2 | 223.4 | 263.4# |




REASON # 2

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS4.D Vial: 7
Acq On : 25 Mar 2025 16:46 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:42:07 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1209680 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 914607 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 472895 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 325475 | 0.999 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 77295 | 0.992 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1201833 | 1.007 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 448269 | 0.986 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.96 | 85 | 89919 | 0.2621 | mg/kg | 97 |
| 3) Chloromethan | 2.20 | 50 | 125017 | 0.2563 | mg/kg | 98 |
| 4) VinylChlorid | 2.38 | 62 | 95134 | 0.2257 | mg/kg | 86 |
| 5) Bromomethane | 2.83 | 94 | 46735 | 0.2736 | mg/kg | 88 |
| 6) Chloroethane | 2.99 | 64 | 20310 | 0.2632 | mg/kg | 92 |
| 7) dichloroflmethane | 3.29 | 67 | 97103 | 0.1886 | mg/kg | 95 |
| 8) Trichlorofma | 3.35 | 101 | 117556 | 0.2321 | mg/kg | 95 |
| 9) Ethylether | 3.90 | 59 | 74475 | 0.2575 | mg/kg | 96 |
| 10) dichlorotfluoroethan | 3.86 | 67 | 86128 | 0.2494 | mg/kg | 98 |
| 11) propyleneoxide | 4.11 | 58 | 129864 | 2.3763 | mg/kg | 95 |
| 12) Acrolein | 4.02 | 56 | 81244 | 1.2154 | mg/kg | 97 |
| 13) 11dichlorthe | 4.12 | 96 | 71205 | 0.2519 | mg/kg | 96 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 136274 | 0.5073 | mg/kg | 99 |
| 15) Acetone | 4.28 | 43 | 347611 | 2.4799 | mg/kg | 98 |
| 16) Iodomethane | 4.31 | 127 | 35483 | 0.4323 | mg/kg | 97 |
| 17) Carbon Dislf | 4.40 | 76 | 352903 | 0.4849 | mg/kg | 98 |
| 18) allylchloride | 4.63 | 41 | 221497 | 0.4960 | mg/kg | 98 |
| 19) methylacetate | 4.72 | 74 | 60935 | 0.2578 | mg/kg | 97 |
| 20) Methylchlorid | 4.80 | 84 | 83391 | 0.2458 | mg/kg | 95 |
| 21) Acrylonitrile | 5.12 | 53 | 181911 | 1.2697 | mg/kg | 98 |
| 22) t12dichlorte | 5.17 | 96 | 76269 | 0.2524 | mg/kg | 99 |
| 23) tbutylalcohol | 5.12 | 59 | 361876 | 12.5955 | mg/kg | 96 |
| 24) MtBE | 5.26 | 73 | 167003 | 0.2543 | mg/kg | 97 |
| 25) Hexane | 5.57 | 57 | 255705 | 0.5227 | mg/kg | 99 |
| 26) 11dichlorota | 5.71 | 63 | 156361 | 0.2504 | mg/kg | 96 |
| 27) Vinylacetate | 5.81 | 43 | 1304111 | 2.5841 | mg/kg | 100 |
| 28) chloroprene | 5.84 | 53 | 242210 | 0.5001 | mg/kg | 99 |
| 29) Diisopether | 5.89 | 45 | 264333 | 0.2555 | mg/kg | 98 |
| 30) ETBE | 6.35 | 59 | 118308 | 0.2934 | mg/kg | 95 |
| 31) 22dichloropr | 6.46 | 77 | 105930 | 0.2462 | mg/kg | 99 |
| 32) c12dichlorte | 6.45 | 96 | 84073 | 0.2526 | mg/kg | 98 |
| 33) 2Butanone | 6.51 | 72 | 92518 | 2.4375 | mg/kg | 94 |
| 34) propionitrile | 6.52 | 54 | 137220 | 2.4671 | mg/kg | 96 |
| 35) Ethylacetate | 6.61 | 88 | 9960 | 1.3348 | mg/kg# | 80 |
| 36) methacrylonitrile | 6.72 | 67 | 61398 | 0.4890 | mg/kg | 94 |
| 37) Bromochlorma | 6.74 | 128 | 38124 | 0.2587 | mg/kg | 97 |
| 38) Tetrahydofur | 6.89 | 42 | 270472 | 2.4758 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS4.D Vial: 7
Acq On : 25 Mar 2025 16:46 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:42:07 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 6.85 | 83 | 136501 | 0.2503 mg/kg | 98 |
| 40) 111trichlota | 7.10 | 97 | 122558 | 0.2581 mg/kg | 95 |
| 42) Cyclohexane | 7.18 | 56 | 143878 | 0.2532 mg/kg | 99 |
| 43) Carbtetraclo | 7.32 | 119 | 102630 | 0.2533 mg/kg | 98 |
| 44) 11dicloprope | 7.31 | 110 | 36119 | 0.2509 mg/kg | 97 |
| 46) Benzene | 7.55 | 78 | 307172 | 0.2529 mg/kg | 98 |
| 47) 12dichlorota | 7.55 | 62 | 114243 | 0.2555 mg/kg | 99 |
| 48) TAME | 7.76 | 73 | 62889 | 0.3102 mg/kg | 97 |
| 49) trichloroete | 8.37 | 95 | 82401 | 0.2553 mg/kg | 90 |
| 50) methylcyclohexane | 8.64 | 83 | 125626 | 0.2560 mg/kg | 99 |
| 51) 12dicloropra | 8.62 | 63 | 91040 | 0.2420 mg/kg | 85 |
| 52) 23dicl1propene | 8.68 | 75 | 114875 | 0.2435 mg/kg | 97 |
| 53) Dibromometha | 8.76 | 93 | 47821 | 0.2524 mg/kg | 97 |
| 54) methylmethacrylate | 8.81 | 69 | 45414 | 0.2398 mg/kg | 98 |
| 55) 14dioxane | 8.85 | 88 | 47839 | 13.0389 mg/kg | 96 |
| 56) Bromodiclrma | 8.96 | 83 | 102118 | 0.2482 mg/kg | 99 |
| 57) 2Nitropropane | 9.23 | 43 | 242375 | 2.4918 mg/kg | 99 |
| 58) c13dicloproe | 9.54 | 75 | 117412 | 0.2470 mg/kg | 96 |
| 59) 4Meth2Pentan | 9.77 | 43 | 748150 | 2.6093 mg/kg | 100 |
| 61) Toluene | 10.00 | 92 | 180004 | 0.2422 mg/kg | 94 |
| 62) t13Dicloprop | 10.26 | 75 | 101370 | 0.2450 mg/kg | 97 |
| 63) ethylmethacrylate | 10.42 | 69 | 150153 | 0.4779 mg/kg | 98 |
| 64) 112Triclotha | 10.49 | 83 | 57913 | 0.2512 mg/kg | 98 |
| 65) Tetrachlorte | 10.74 | 166 | 78531 | 0.2360 mg/kg | 97 |
| 66) 13Diclorpropa | 10.73 | 76 | 116461 | 0.2572 mg/kg | 98 |
| 68) 2Hexanone | 10.86 | 43 | 524591 | 2.5599 mg/kg | 99 |
| 69) Clorodibrmta | 11.03 | 129 | 75406 | 0.2533 mg/kg | 99 |
| 70) 12Dibrometha | 11.18 | 107 | 69616 | 0.2481 mg/kg | 96 |
| 71) Chlorobenzen | 11.88 | 112 | 205774 | 0.2499 mg/kg | 97 |
| 72) 1Clhexane | 11.85 | 91 | 96452 | 0.2389 mg/kg | 93 |
| 73) 1112Tetclota | 11.98 | 131 | 68409 | 0.2420 mg/kg | 94 |
| 74) Ethylbenzene | 12.04 | 91 | 343748 | 0.2523 mg/kg | 100 |
| 75) m p-Xylene | 12.20 | 106 | 264457 | 0.4976 mg/kg | 98 |
| 76) o-Xylene | 12.75 | 106 | 124493 | 0.2481 mg/kg | 95 |
| 77) Styrene | 12.76 | 104 | 195979 | 0.2472 mg/kg | 98 |
| 78) Bromoform | 13.00 | 173 | 44298 | 0.2410 mg/kg | 97 |
| 79) Isopropylben | 13.28 | 105 | 322445 | 0.2489 mg/kg | 100 |
| 81) cyclohexanone | 13.39 | 55 | 180974 | 5.0019 mg/kg | 100 |
| 83) Bromobenzene | 13.69 | 156 | 79869 | 0.2466 mg/kg | 98 |
| 84) 1122Tetrclta | 13.65 | 83 | 95117 | 0.2599 mg/kg | 96 |
| 85) 123Triclproa | 13.71 | 75 | 90816 | 0.2510 mg/kg | 99 |
| 86) 14dichloro2butene | 13.74 | 53 | 6887 | 0.2231 mg/kg | 89 |
| 87) n-Propylbenz | 13.87 | 91 | 400466 | 0.2505 mg/kg | 99 |
| 88) 2chlorotolue | 13.98 | 91 | 233557 | 0.2474 mg/kg | 97 |
| 89) 4chlorotolue | 14.13 | 91 | 280197 | 0.2552 mg/kg | 100 |
| 90) 135Trimebenz | 14.12 | 105 | 273113 | 0.2493 mg/kg | 99 |
| 91) tbutylbenzen | 14.59 | 119 | 222992 | 0.2411 mg/kg | 97 |
| 92) 124Trimetben | 14.66 | 105 | 269711 | 0.2484 mg/kg | 99 |
| 93) sbutylbenzen | 14.91 | 105 | 351946 | 0.2522 mg/kg | 99 |
| 94) 13Diclorbenz | 15.06 | 146 | 157139 | 0.2544 mg/kg | 96 |
| 95) pIsopropylto | 15.13 | 119 | 296448 | 0.2521 mg/kg | 100 |
| 96) 14dichlorobe | 15.19 | 146 | 159108 | 0.2525 mg/kg | 97 |
| 97) 12dichlorobe | 15.73 | 146 | 142442 | 0.2463 mg/kg | 96 |
| 98) nButylbenzen | 15.73 | 91 | 279452 | 0.2424 mg/kg | 98 |
| 99) 12dibromo3cl | 16.81 | 157 | 16010 | 0.2603 mg/kg | 95 |
| 100) 135Trichlorobenzene | 17.14 | 180 | 105264 | 0.2564 mg/kg | 92 |
| 101) 124Trichlobe | 17.94 | 180 | 82715 | 0.2378 mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS4.D Vial: 7
Acq On : 25 Mar 2025 16:46 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:42:07 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 48941 | 0.2412 | mg/kg | 99 |
| 103) Naphthalene | 18.25 | 128 | 171441 | 0.2304 | mg/kg | 97 |
| 104) 123Trichlben | 18.56 | 180 | 73603 | 0.2474 | mg/kg | 95 |

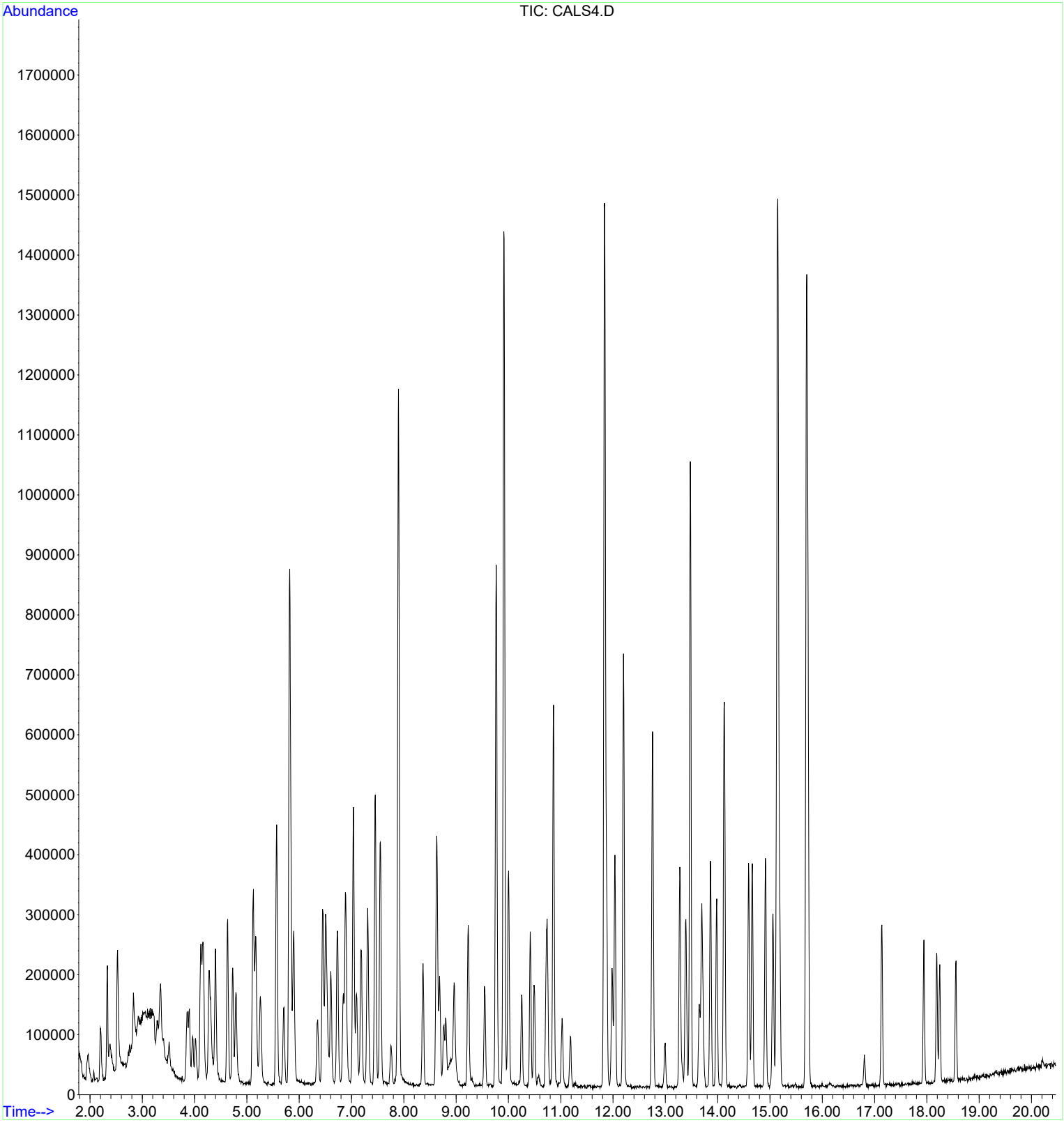
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS4.D  Vial: 7
Acq On : 25 Mar 2025 16:46  Operator: RLD-DGS
Sample : CALIB. PT. 4  Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:42:07 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS5.D Vial: 8
Acq On : 25 Mar 2025 17:14 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:42:57 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1223517 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 935244 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 484041 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 326014 | 0.989 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 77377 | 0.982 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1210416 | 1.003 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 460403 | 0.990 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.96 | 85 | 180112 | 0.5190 | mg/kg | 100 |
| 3) Chloromethan | 2.20 | 50 | 246195 | 0.4991 | mg/kg | 100 |
| 4) VinylChlorid | 2.38 | 62 | 228567 | 0.5360 | mg/kg | 100 |
| 5) Bromomethane | 2.83 | 94 | 75439 | 0.4911 | mg/kg | 100 |
| 6) Chloroethane | 2.98 | 64 | 36560 | 0.4685 | mg/kg | 100 |
| 7) dichloroflmethane | 3.29 | 67 | 294832 | 0.5828 | mg/kg | 100 |
| 8) Trichlorofma | 3.35 | 101 | 294459 | 0.5749 | mg/kg | 100 |
| 9) Ethylether | 3.90 | 59 | 143311 | 0.4899 | mg/kg | 100 |
| 10) dichlorotfluoroethan | 3.85 | 67 | 177152 | 0.5071 | mg/kg | 100 |
| 11) propyleneoxide | 4.10 | 58 | 279106 | 5.0494 | mg/kg | 100 |
| 12) Acrolein | 4.01 | 56 | 165218 | 2.4437 | mg/kg | 96 |
| 13) 11dichlorthe | 4.12 | 96 | 145719 | 0.5096 | mg/kg | 100 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 280839 | 1.0335 | mg/kg | 100 |
| 15) Acetone | 4.27 | 43 | 716148 | 5.0514 | mg/kg | 98 |
| 16) Iodomethane | 4.31 | 127 | 62483 | 0.7017 | mg/kg | 99 |
| 17) Carbon Dislf | 4.40 | 76 | 721366 | 0.9799 | mg/kg | 100 |
| 18) allylchloride | 4.63 | 41 | 449445 | 0.9951 | mg/kg | 100 |
| 19) methylacetate | 4.73 | 74 | 126940 | 0.5310 | mg/kg | 100 |
| 20) Methylchlorid | 4.79 | 84 | 160126 | 0.4666 | mg/kg | 100 |
| 21) Acrylonitrile | 5.12 | 53 | 371232 | 2.5617 | mg/kg | 100 |
| 22) t12dichlorte | 5.17 | 96 | 152491 | 0.4990 | mg/kg | 100 |
| 23) tbutylalcohol | 5.11 | 59 | 718335 | 24.7198 | mg/kg | 99 |
| 24) MtBE | 5.25 | 73 | 330862 | 0.4980 | mg/kg | 100 |
| 25) Hexane | 5.57 | 57 | 516598 | 1.0441 | mg/kg | 100 |
| 26) 11dichlorota | 5.71 | 63 | 318285 | 0.5040 | mg/kg | 100 |
| 27) Vinylacetate | 5.81 | 43 | 2446387 | 4.7928 | mg/kg | 100 |
| 28) chloroprene | 5.84 | 53 | 502946 | 1.0267 | mg/kg | 100 |
| 29) Diisopether | 5.89 | 45 | 523934 | 0.5008 | mg/kg | 99 |
| 30) ETBE | 6.35 | 59 | 211949 | 0.4944 | mg/kg | 100 |
| 31) 22dichloropr | 6.45 | 77 | 206916 | 0.4754 | mg/kg | 100 |
| 32) c12dichlorte | 6.45 | 96 | 168268 | 0.4998 | mg/kg | 100 |
| 33) 2Butanone | 6.50 | 72 | 197707 | 5.1499 | mg/kg | 100 |
| 34) propionitrile | 6.53 | 54 | 290038 | 5.1556 | mg/kg | 100 |
| 35) Ethylacetate | 6.60 | 88 | 17456 | 2.3129 | mg/kg | 100 |
| 36) methacrylonitrile | 6.72 | 67 | 132270 | 1.0415 | mg/kg | 100 |
| 37) Bromochlorma | 6.73 | 128 | 74795 | 0.5019 | mg/kg | 100 |
| 38) Tetrahydofur | 6.88 | 42 | 550639 | 4.9834 | mg/kg | 100 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS5.D Vial: 8
Acq On : 25 Mar 2025 17:14 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:42:57 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 279027 | 0.5059 | mg/kg | 100 |
| 40) | 111trichlota | 7.10 | 97 | 234266 | 0.4878 | mg/kg | 100 |
| 42) | Cyclohexane | 7.19 | 56 | 295039 | 0.5134 | mg/kg | 100 |
| 43) | Carbtetraclo | 7.32 | 119 | 206666 | 0.5043 | mg/kg | 100 |
| 44) | 11dicloprope | 7.30 | 110 | 73642 | 0.5057 | mg/kg | 100 |
| 46) | Benzene | 7.55 | 78 | 610401 | 0.4970 | mg/kg | 100 |
| 47) | 12dichlorota | 7.55 | 62 | 231031 | 0.5108 | mg/kg | 100 |
| 48) | TAME | 7.75 | 73 | 99702 | 0.4581 | mg/kg | 100 |
| 49) | trichloroete | 8.36 | 95 | 159562 | 0.4889 | mg/kg | 100 |
| 50) | methylcyclohexane | 8.64 | 83 | 257871 | 0.5195 | mg/kg | 100 |
| 51) | 12dicloropra | 8.62 | 63 | 186481 | 0.4901 | mg/kg | 100 |
| 52) | 23dicl1propene | 8.68 | 75 | 245264 | 0.5140 | mg/kg | 100 |
| 53) | Dibromometha | 8.76 | 93 | 97516 | 0.5088 | mg/kg | 100 |
| 54) | methylmethacrylate | 8.81 | 69 | 96636 | 0.5045 | mg/kg | 100 |
| 55) | 14dioxane | 8.86 | 88 | 97875 | 26.3749 | mg/kg | 99 |
| 56) | Bromodiclrma | 8.96 | 83 | 211265 | 0.5077 | mg/kg | 100 |
| 57) | 2Nitropropane | 9.23 | 43 | 506337 | 5.1467 | mg/kg | 100 |
| 58) | c13dicloproe | 9.55 | 75 | 245066 | 0.5098 | mg/kg | 100 |
| 59) | 4Meth2Pentan | 9.77 | 43 | 1538463 | 5.3049 | mg/kg | 100 |
| 61) | Toluene | 10.00 | 92 | 377183 | 0.5018 | mg/kg | 100 |
| 62) | t13Dicloprop | 10.25 | 75 | 203343 | 0.4859 | mg/kg | 100 |
| 63) | ethylmethacrylate | 10.42 | 69 | 326638 | 1.0278 | mg/kg | 100 |
| 64) | 112Triclotha | 10.50 | 83 | 120210 | 0.5155 | mg/kg | 100 |
| 65) | Tetrachlorte | 10.75 | 166 | 161904 | 0.4811 | mg/kg | 100 |
| 66) | 13Diclorpropa | 10.72 | 76 | 232485 | 0.5076 | mg/kg | 100 |
| 68) | 2Hexanone | 10.86 | 43 | 1098554 | 5.2425 | mg/kg | 100 |
| 69) | Clorodibrmta | 11.03 | 129 | 156624 | 0.5144 | mg/kg | 100 |
| 70) | 12Dibrometha | 11.18 | 107 | 147169 | 0.5129 | mg/kg | 100 |
| 71) | Chlorobenzen | 11.88 | 112 | 424010 | 0.5035 | mg/kg | 100 |
| 72) | 1Clhexane | 11.85 | 91 | 200090 | 0.4846 | mg/kg | 100 |
| 73) | 1112Tetclota | 11.98 | 131 | 144484 | 0.4999 | mg/kg | 100 |
| 74) | Ethylbenzene | 12.04 | 91 | 703998 | 0.5054 | mg/kg | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 541399 | 0.9962 | mg/kg | 100 |
| 76) | o-Xylene | 12.75 | 106 | 252510 | 0.4920 | mg/kg | 100 |
| 77) | Styrene | 12.76 | 104 | 423371 | 0.5222 | mg/kg | 100 |
| 78) | Bromoform | 12.99 | 173 | 93952 | 0.4998 | mg/kg | 100 |
| 79) | Isopropylben | 13.28 | 105 | 668198 | 0.5044 | mg/kg | 100 |
| 81) | cyclohexanone | 13.39 | 55 | 391198 | 10.5632 | mg/kg | 100 |
| 83) | Bromobenzene | 13.70 | 156 | 159985 | 0.4826 | mg/kg | 100 |
| 84) | 1122Tetrclta | 13.65 | 83 | 186947 | 0.4990 | mg/kg | 100 |
| 85) | 123Triclproa | 13.71 | 75 | 183839 | 0.4964 | mg/kg | 100 |
| 86) | 14dichloro2butene | 13.73 | 53 | 14244 | 0.4509 | mg/kg | 100 |
| 87) | n-Propylbenz | 13.86 | 91 | 831249 | 0.5079 | mg/kg | 100 |
| 88) | 2chlorotolue | 13.98 | 91 | 490691 | 0.5078 | mg/kg | 100 |
| 89) | 4chlorotolue | 14.13 | 91 | 572307 | 0.5092 | mg/kg | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 574310 | 0.5121 | mg/kg | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 480212 | 0.5073 | mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 568198 | 0.5113 | mg/kg | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 731403 | 0.5119 | mg/kg | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 308637 | 0.4881 | mg/kg | 100 |
| 95) | pIsopropylto | 15.13 | 119 | 618705 | 0.5140 | mg/kg | 100 |
| 96) | 14dichlorobe | 15.19 | 146 | 317737 | 0.4927 | mg/kg | 100 |
| 97) | 12dichlorobe | 15.73 | 146 | 294039 | 0.4968 | mg/kg | 100 |
| 98) | nButylbenzen | 15.73 | 91 | 589017 | 0.4991 | mg/kg | 100 |
| 99) | 12dibromo3cl | 16.81 | 157 | 29895 | 0.4749 | mg/kg | 100 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 203861 | 0.4852 | mg/kg | 100 |
| 101) | 124Trichlobe | 17.94 | 180 | 173883 | 0.4885 | mg/kg | 100 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS5.D Vial: 8
Acq On : 25 Mar 2025 17:14 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:42:57 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 98524 | 0.4743 | mg/kg | 100 |
| 103) Naphthalene | 18.25 | 128 | 373599 | 0.4906 | mg/kg | 100 |
| 104) 123Trichlben | 18.56 | 180 | 146158 | 0.4799 | mg/kg | 100 |

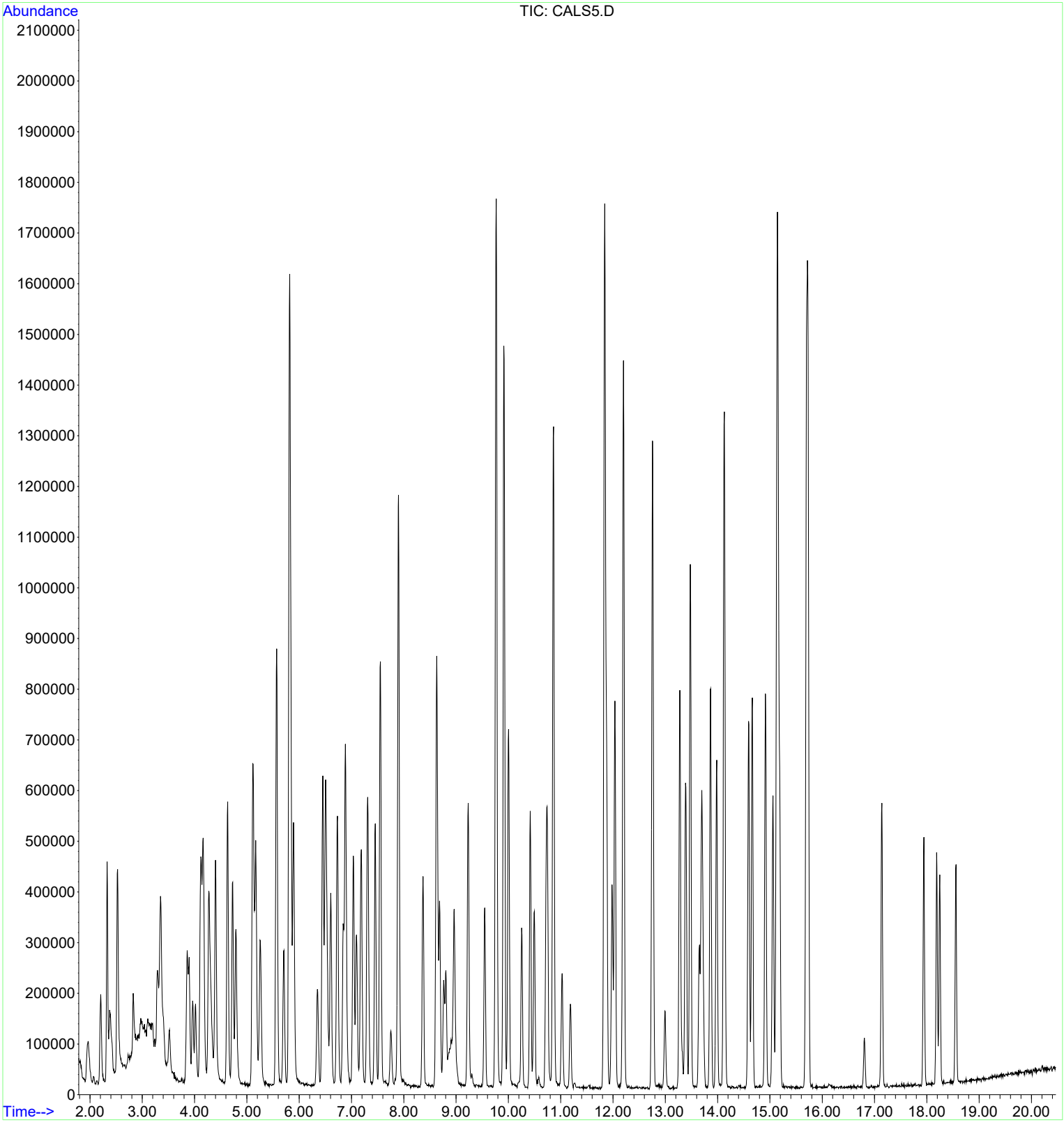
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS5.D  Vial: 8
Acq On : 25 Mar 2025 17:14  Operator: RLD-DGS
Sample : CALIB. PT. 5  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:42:57 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS6.D Vial: 9
Acq On : 25 Mar 2025 17:42 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:43:29 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1251114 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 947780 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 491546 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 336148 | 0.997 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 81227 | 1.008 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1242460 | 1.007 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 485009 | 1.026 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 103 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 384140 | 1.0825 | mg/kg | 98 |
| 3) Chloromethan | 2.20 | 50 | 503504 | 0.9982 | mg/kg | 97 |
| 4) VinylChlorid | 2.36 | 62 | 477509 | 1.0952 | mg/kg | 98 |
| 5) Bromomethane | 2.83 | 94 | 140040 | 0.9835 | mg/kg | 90 |
| 6) Chloroethane | 2.97 | 64 | 77587 | 0.9723 | mg/kg | 97 |
| 7) dichloroflmethane | 3.29 | 67 | 512952 | 1.0046 | mg/kg | 97 |
| 8) Trichlorofma | 3.35 | 101 | 532986 | 1.0176 | mg/kg | 97 |
| 9) Ethylether | 3.90 | 59 | 300078 | 1.0032 | mg/kg | 95 |
| 10) dichlorotfluoroethan | 3.86 | 67 | 363955 | 1.0188 | mg/kg | 100 |
| 11) propyleneoxide | 4.11 | 58 | 572141 | 10.1224 | mg/kg | 96 |
| 12) Acrolein | 4.02 | 56 | 344377 | 4.9812 | mg/kg | 97 |
| 13) 11dichlorthe | 4.12 | 96 | 299762 | 1.0252 | mg/kg | 99 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 583053 | 2.0984 | mg/kg | 98 |
| 15) Acetone | 4.27 | 43 | 1452091 | 10.0164 | mg/kg | 96 |
| 16) Iodomethane | 4.31 | 127 | 170424 | 1.7058 | mg/kg | 93 |
| 17) Carbon Dislf | 4.40 | 76 | 1502983 | 1.9966 | mg/kg | 100 |
| 18) allylchloride | 4.63 | 41 | 948006 | 2.0526 | mg/kg | 99 |
| 19) methylacetate | 4.73 | 74 | 252432 | 1.0326 | mg/kg | 99 |
| 20) Methylchlorid | 4.79 | 84 | 336339 | 0.9585 | mg/kg | 97 |
| 21) Acrylonitrile | 5.12 | 53 | 763247 | 5.1507 | mg/kg | 98 |
| 22) t12dichlorte | 5.17 | 96 | 310061 | 0.9922 | mg/kg | 97 |
| 23) tbutylalcohol | 5.11 | 59 | 1407047 | 47.3521 | mg/kg | 99 |
| 24) MtBE | 5.26 | 73 | 631325 | 0.9293 | mg/kg | 100 |
| 25) Hexane | 5.57 | 57 | 1082675 | 2.1399 | mg/kg | 98 |
| 26) 11dichlorota | 5.71 | 63 | 654559 | 1.0137 | mg/kg | 99 |
| 27) Vinylacetate | 5.81 | 43 | 4987163 | 9.5549 | mg/kg | 99 |
| 28) chloroprene | 5.84 | 53 | 1047313 | 2.0908 | mg/kg | 98 |
| 29) Diisopether | 5.89 | 45 | 1083073 | 1.0124 | mg/kg | 98 |
| 30) ETBE | 6.35 | 59 | 317415 | 0.7015 | mg/kg | 98 |
| 31) 22dichloropr | 6.46 | 77 | 390504 | 0.8774 | mg/kg | 99 |
| 32) c12dichlorte | 6.45 | 96 | 344003 | 0.9993 | mg/kg | 96 |
| 33) 2Butanone | 6.50 | 72 | 410721 | 10.4626 | mg/kg | 99 |
| 34) propionitrile | 6.53 | 54 | 589018 | 10.2392 | mg/kg | 98 |
| 35) Ethylacetate | 6.60 | 88 | 36433 | 4.7209 | mg/kg# | 94 |
| 36) methacrylonitrile | 6.72 | 67 | 260802 | 2.0083 | mg/kg | 94 |
| 37) Bromochlorma | 6.74 | 128 | 151398 | 0.9935 | mg/kg | 97 |
| 38) Tetrahydofur | 6.88 | 42 | 1155762 | 10.2292 | mg/kg | 100 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS6.D Vial: 9
Acq On : 25 Mar 2025 17:42 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:43:29 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 6.84 | 83 | 564330 | 1.0005 mg/kg | 100 |
| 40) 111trichlota | 7.10 | 97 | 498852 | 1.0157 mg/kg | 98 |
| 42) Cyclohexane | 7.18 | 56 | 615341 | 1.0471 mg/kg | 99 |
| 43) Carbtetraclo | 7.32 | 119 | 442896 | 1.0570 mg/kg | 100 |
| 44) 11dicloprope | 7.30 | 110 | 154530 | 1.0378 mg/kg | 96 |
| 46) Benzene | 7.55 | 78 | 1273994 | 1.0143 mg/kg | 99 |
| 47) 12dichlorota | 7.55 | 62 | 469202 | 1.0146 mg/kg | 98 |
| 48) TAME | 7.76 | 73 | 156103 | 0.6636 mg/kg | 98 |
| 49) trichloroete | 8.36 | 95 | 336147 | 1.0071 mg/kg | 97 |
| 50) methylcyclohexane | 8.64 | 83 | 554493 | 1.0924 mg/kg | 99 |
| 51) 12dicloropra | 8.62 | 63 | 384548 | 0.9883 mg/kg | 92 |
| 52) 23dicl1propene | 8.68 | 75 | 496446 | 1.0175 mg/kg | 98 |
| 53) Dibromometha | 8.76 | 93 | 205644 | 1.0494 mg/kg | 98 |
| 54) methylmethacrylate | 8.81 | 69 | 205895 | 1.0512 mg/kg | 99 |
| 55) 14dioxane | 8.85 | 88 | 204859 | 53.9868 mg/kg | 99 |
| 56) Bromodiclrma | 8.96 | 83 | 437604 | 1.0284 mg/kg | 99 |
| 57) 2Nitropropane | 9.23 | 43 | 1088971 | 10.8247 mg/kg | 98 |
| 58) c13dicloproe | 9.55 | 75 | 502983 | 1.0233 mg/kg | 98 |
| 59) 4Meth2Pentan | 9.77 | 43 | 3113677 | 10.4997 mg/kg | 99 |
| 61) Toluene | 10.00 | 92 | 781346 | 1.0165 mg/kg | 95 |
| 62) t13Dicloprop | 10.26 | 75 | 423176 | 0.9890 mg/kg | 99 |
| 63) ethylmethacrylate | 10.42 | 69 | 687634 | 2.1159 mg/kg | 99 |
| 64) 112Triclotha | 10.50 | 83 | 242295 | 1.0160 mg/kg | 100 |
| 65) Tetrachlorte | 10.75 | 166 | 335881 | 0.9761 mg/kg | 98 |
| 66) 13Diclorpropa | 10.72 | 76 | 471701 | 1.0073 mg/kg | 98 |
| 68) 2Hexanone | 10.86 | 43 | 2229539 | 10.4990 mg/kg | 100 |
| 69) Clorodibrmta | 11.03 | 129 | 315952 | 1.0240 mg/kg | 96 |
| 70) 12Dibrometha | 11.18 | 107 | 294493 | 1.0127 mg/kg | 96 |
| 71) Chlorobenzen | 11.88 | 112 | 864032 | 1.0125 mg/kg | 98 |
| 72) 1Clhexane | 11.85 | 91 | 420097 | 1.0039 mg/kg | 98 |
| 73) 1112Tetclota | 11.98 | 131 | 305761 | 1.0438 mg/kg | 99 |
| 74) Ethylbenzene | 12.04 | 91 | 1489320 | 1.0550 mg/kg | 100 |
| 75) m p-Xylene | 12.20 | 106 | 1142841 | 2.0751 mg/kg | 99 |
| 76) o-Xylene | 12.75 | 106 | 550900 | 1.0593 mg/kg | 94 |
| 77) Styrene | 12.76 | 104 | 880138 | 1.0712 mg/kg | 98 |
| 78) Bromoform | 13.00 | 173 | 201649 | 1.0586 mg/kg | 99 |
| 79) Isopropylben | 13.28 | 105 | 1450116 | 1.0801 mg/kg | 100 |
| 81) cyclohexanone | 13.39 | 55 | 814458 | 21.6565 mg/kg | 98 |
| 83) Bromobenzene | 13.70 | 156 | 336039 | 0.9982 mg/kg | 97 |
| 84) 1122Tetrclta | 13.65 | 83 | 383307 | 1.0075 mg/kg | 98 |
| 85) 123Triclproa | 13.71 | 75 | 381884 | 1.0155 mg/kg | 99 |
| 86) 14dichloro2butene | 13.74 | 53 | 36176 | 1.1276 mg/kg | 85 |
| 87) n-Propylbenz | 13.87 | 91 | 1753774 | 1.0552 mg/kg | 99 |
| 88) 2chlorotolue | 13.98 | 91 | 1016234 | 1.0357 mg/kg | 97 |
| 89) 4chlorotolue | 14.13 | 91 | 1182999 | 1.0365 mg/kg | 99 |
| 90) 135Trimebenz | 14.12 | 105 | 1236721 | 1.0859 mg/kg | 99 |
| 91) tbutylbenzen | 14.60 | 119 | 1041206 | 1.0832 mg/kg | 99 |
| 92) 124Trimetben | 14.66 | 105 | 1230588 | 1.0905 mg/kg | 100 |
| 93) sbutylbenzen | 14.91 | 105 | 1569797 | 1.0820 mg/kg | 100 |
| 94) 13Diclorbenz | 15.06 | 146 | 643163 | 1.0017 mg/kg | 98 |
| 95) pIsopropylto | 15.13 | 119 | 1314289 | 1.0753 mg/kg | 100 |
| 96) 14dichlorobe | 15.19 | 146 | 649176 | 0.9912 mg/kg | 99 |
| 97) 12dichlorobe | 15.73 | 146 | 582280 | 0.9688 mg/kg | 99 |
| 98) nButylbenzen | 15.73 | 91 | 1249619 | 1.0427 mg/kg | 99 |
| 99) 12dibromo3cl | 16.81 | 157 | 62265 | 0.9740 mg/kg | 96 |
| 100) 135Trichlorobenzene | 17.14 | 180 | 419130 | 0.9823 mg/kg | 94 |
| 101) 124Trichlobe | 17.94 | 180 | 343346 | 0.9498 mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\Instarch\Data\MAR2525\CALS6.D Vial: 9
Acq On : 25 Mar 2025 17:42 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:43:29 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 204513 | 0.9695 | mg/kg | 97 |
| 103) Naphthalene | 18.25 | 128 | 775265 | 1.0024 | mg/kg | 98 |
| 104) 123Trichlben | 18.56 | 180 | 288331 | 0.9324 | mg/kg | 99 |

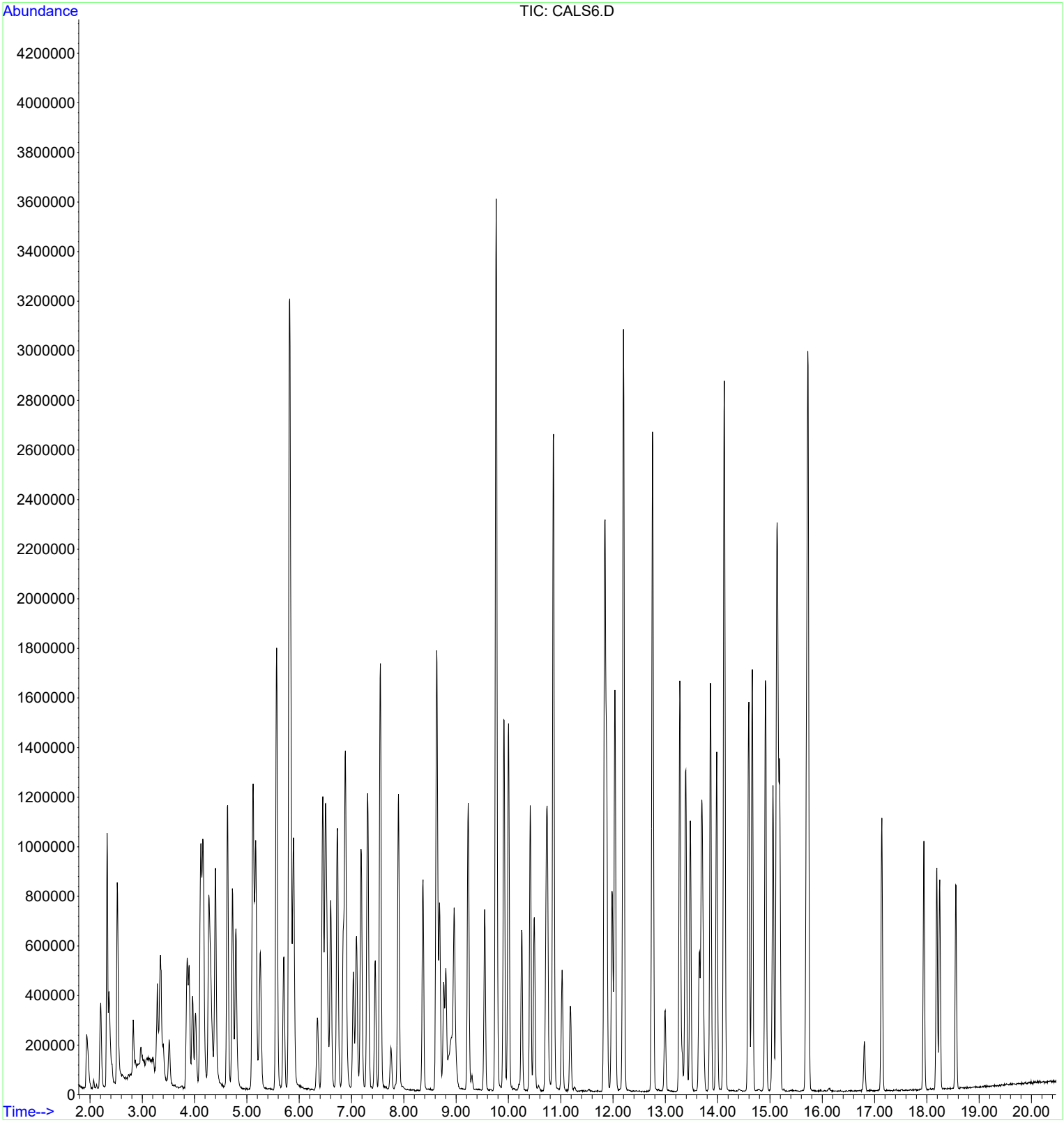
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS6.D  Vial: 9
Acq On : 25 Mar 2025 17:42  Operator: RLD-DGS
Sample : CALIB. PT. 6  Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:43:29 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS7.D Vial: 10
Acq On : 25 Mar 2025 18:10 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:44:17 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1280154 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 976257 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 506200 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 336560 | 0.976 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 80568 | 0.977 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1265011 | 1.002 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 493592 | 1.014 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.96 | 85 | 553462 | 1.5242 | mg/kg | 98 |
| 3) Chloromethan | 2.20 | 50 | 725922 | 1.4065 | mg/kg | 97 |
| 4) VinylChlorid | 2.38 | 62 | 739463 | 1.6575 | mg/kg | 99 |
| 5) Bromomethane | 2.83 | 94 | 211100 | 1.5318 | mg/kg | 90 |
| 6) Chloroethane | 2.98 | 64 | 111544 | 1.3662 | mg/kg | 96 |
| 7) dichloroflmethane | 3.30 | 67 | 787698 | 1.5273 | mg/kg | 93 |
| 8) Trichlorofma | 3.35 | 101 | 777430 | 1.4507 | mg/kg | 97 |
| 9) Ethylether | 3.90 | 59 | 464142 | 1.5165 | mg/kg | 95 |
| 10) dichlorotfluoroethan | 3.86 | 67 | 536352 | 1.4673 | mg/kg | 99 |
| 11) propyleneoxide | 4.10 | 58 | 834421 | 14.4279 | mg/kg | 96 |
| 12) Acrolein | 4.01 | 56 | 542072 | 7.6629 | mg/kg# | 21 |
| 13) 11dichlorthe | 4.13 | 96 | 438470 | 1.4656 | mg/kg | 99 |
| 14) Trichlorotfluoroeth | 4.17 | 101 | 849381 | 2.9876 | mg/kg | 99 |
| 15) Acetone | 4.27 | 43 | 1945095 | 13.1127 | mg/kg | 94 |
| 16) Iodomethane | 4.32 | 127 | 307743 | 2.8418 | mg/kg | 90 |
| 17) Carbon Dislf | 4.40 | 76 | 2187786 | 2.8403 | mg/kg | 100 |
| 18) allylchloride | 4.63 | 41 | 1427866 | 3.0214 | mg/kg | 98 |
| 19) methylacetate | 4.72 | 74 | 302352 | 1.2087 | mg/kg | 100 |
| 20) Methylchlorid | 4.79 | 84 | 500110 | 1.3929 | mg/kg | 96 |
| 21) Acrylonitrile | 5.12 | 53 | 1105184 | 7.2890 | mg/kg | 99 |
| 22) t12dichlorte | 5.17 | 96 | 472667 | 1.4783 | mg/kg | 99 |
| 23) tbutylalcohol | 5.11 | 59 | 2327779 | 76.5608 | mg/kg | 99 |
| 24) MtBE | 5.25 | 73 | 1070049 | 1.5394 | mg/kg | 99 |
| 25) Hexane | 5.57 | 57 | 1588432 | 3.0683 | mg/kg | 99 |
| 26) 11dichlorota | 5.70 | 63 | 955150 | 1.4456 | mg/kg | 98 |
| 27) Vinylacetate | 5.81 | 43 | 8384951 | 15.7004 | mg/kg | 98 |
| 28) chloroprene | 5.84 | 53 | 1561587 | 3.0467 | mg/kg | 98 |
| 29) Diisopether | 5.89 | 45 | 1603329 | 1.4647 | mg/kg | 99 |
| 30) ETBE | 6.35 | 59 | 810934 | 1.5955 | mg/kg | 99 |
| 31) 22dichloropr | 6.46 | 77 | 651722 | 1.4311 | mg/kg | 100 |
| 32) c12dichlorte | 6.44 | 96 | 516786 | 1.4672 | mg/kg | 98 |
| 33) 2Butanone | 6.50 | 72 | 577211 | 14.3702 | mg/kg | 99 |
| 34) propionitrile | 6.52 | 54 | 836762 | 14.2160 | mg/kg | 99 |
| 35) Ethylacetate | 6.60 | 88 | 56559 | 7.1625 | mg/kg# | 87 |
| 36) methacrylonitrile | 6.72 | 67 | 385899 | 2.9042 | mg/kg | 94 |
| 37) Bromochlorma | 6.74 | 128 | 224355 | 1.4388 | mg/kg | 95 |
| 38) Tetrahydofur | 6.88 | 42 | 1623206 | 14.0405 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS7.D Vial: 10
Acq On : 25 Mar 2025 18:10 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:44:17 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 830377 | 1.4388 | mg/kg | 98 |
| 40) | 111trichlota | 7.10 | 97 | 737049 | 1.4667 | mg/kg | 97 |
| 42) | Cyclohexane | 7.19 | 56 | 913195 | 1.5188 | mg/kg | 99 |
| 43) | Carbtetraclo | 7.31 | 119 | 645530 | 1.5056 | mg/kg | 100 |
| 44) | 11dicloprope | 7.30 | 110 | 224543 | 1.4737 | mg/kg | 96 |
| 46) | Benzene | 7.55 | 78 | 1874141 | 1.4583 | mg/kg | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 706891 | 1.4939 | mg/kg | 100 |
| 48) | TAME | 7.75 | 73 | 456003 | 1.6015 | mg/kg | 96 |
| 49) | trichloroete | 8.37 | 95 | 497195 | 1.4559 | mg/kg | 97 |
| 50) | methylcyclohexane | 8.64 | 83 | 808000 | 1.5558 | mg/kg | 99 |
| 51) | 12dicloropra | 8.62 | 63 | 576803 | 1.4487 | mg/kg | 92 |
| 52) | 23dicl1propene | 8.68 | 75 | 770625 | 1.5436 | mg/kg | 97 |
| 53) | Dibromometha | 8.76 | 93 | 301440 | 1.5034 | mg/kg | 98 |
| 54) | methylmethacrylate | 8.81 | 69 | 311315 | 1.5533 | mg/kg | 98 |
| 55) | 14dioxane | 8.86 | 88 | 284461 | 73.2639 | mg/kg | 98 |
| 56) | Bromodiclrma | 8.96 | 83 | 658917 | 1.5133 | mg/kg | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 1625603 | 15.7925 | mg/kg | 97 |
| 58) | c13dicloproe | 9.55 | 75 | 753128 | 1.4974 | mg/kg | 99 |
| 59) | 4Meth2Pentan | 9.77 | 43 | 4492855 | 14.8067 | mg/kg | 97 |
| 61) | Toluene | 10.00 | 92 | 1169560 | 1.4870 | mg/kg | 96 |
| 62) | t13Dicloprop | 10.25 | 75 | 663610 | 1.5157 | mg/kg | 97 |
| 63) | ethylmethacrylate | 10.42 | 69 | 1057606 | 3.1805 | mg/kg | 98 |
| 64) | 112Triclotha | 10.50 | 83 | 369134 | 1.5128 | mg/kg | 98 |
| 65) | Tetrachlorte | 10.75 | 166 | 496902 | 1.4113 | mg/kg | 98 |
| 66) | 13Diclorpropa | 10.72 | 76 | 718670 | 1.4998 | mg/kg | 99 |
| 68) | 2Hexanone | 10.86 | 43 | 3228641 | 14.7603 | mg/kg | 98 |
| 69) | Clorodibrmta | 11.03 | 129 | 488934 | 1.5384 | mg/kg | 97 |
| 70) | 12Dibrometha | 11.18 | 107 | 447433 | 1.4938 | mg/kg | 97 |
| 71) | Chlorobenzen | 11.88 | 112 | 1298419 | 1.4772 | mg/kg | 98 |
| 72) | 1Clhexane | 11.85 | 91 | 638067 | 1.4803 | mg/kg | 95 |
| 73) | 1112Tetclota | 11.98 | 131 | 461239 | 1.5287 | mg/kg | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 2215139 | 1.5233 | mg/kg | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 1711201 | 3.0164 | mg/kg | 99 |
| 76) | o-Xylene | 12.75 | 106 | 831344 | 1.5519 | mg/kg | 94 |
| 77) | Styrene | 12.77 | 104 | 1350093 | 1.5953 | mg/kg | 97 |
| 78) | Bromoform | 13.00 | 173 | 296533 | 1.5112 | mg/kg | 100 |
| 79) | Isopropylben | 13.28 | 105 | 2176387 | 1.5738 | mg/kg | 99 |
| 81) | cyclohexanone | 13.39 | 55 | 1110053 | 28.6619 | mg/kg | 98 |
| 83) | Bromobenzene | 13.70 | 156 | 513455 | 1.4810 | mg/kg | 97 |
| 84) | 1122Tetrclta | 13.65 | 83 | 595036 | 1.5187 | mg/kg | 95 |
| 85) | 123Triclproa | 13.71 | 75 | 573088 | 1.4798 | mg/kg | 100 |
| 86) | 14dichloro2butene | 13.74 | 53 | 49244 | 1.4905 | mg/kg | 91 |
| 87) | n-Propylbenz | 13.87 | 91 | 2606127 | 1.5227 | mg/kg | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 1511485 | 1.4958 | mg/kg | 96 |
| 89) | 4chlorotolue | 14.13 | 91 | 1792857 | 1.5254 | mg/kg | 98 |
| 90) | 135Trimebenz | 14.12 | 105 | 1849510 | 1.5770 | mg/kg | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 1559164 | 1.5750 | mg/kg | 99 |
| 92) | 124Trimetben | 14.66 | 105 | 1830463 | 1.5752 | mg/kg | 98 |
| 93) | sbutylbenzen | 14.92 | 105 | 2337652 | 1.5646 | mg/kg | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 973014 | 1.4715 | mg/kg | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 2004549 | 1.5926 | mg/kg | 100 |
| 96) | 14dichlorobe | 15.19 | 146 | 1016542 | 1.5072 | mg/kg | 99 |
| 97) | 12dichlorobe | 15.73 | 146 | 919062 | 1.4848 | mg/kg | 97 |
| 98) | nButylbenzen | 15.73 | 91 | 1904737 | 1.5434 | mg/kg | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 104731 | 1.5908 | mg/kg | 93 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 680169 | 1.5479 | mg/kg | 95 |
| 101) | 124Trichlobe | 17.94 | 180 | 579475 | 1.5566 | mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS7.D Vial: 10
Acq On : 25 Mar 2025 18:10 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:44:17 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 332433 | 1.5303 | mg/kg | 97 |
| 103) Naphthalene | 18.25 | 128 | 1282968 | 1.6109 | mg/kg | 98 |
| 104) 123Trichlben | 18.55 | 180 | 487027 | 1.5293 | mg/kg | 99 |

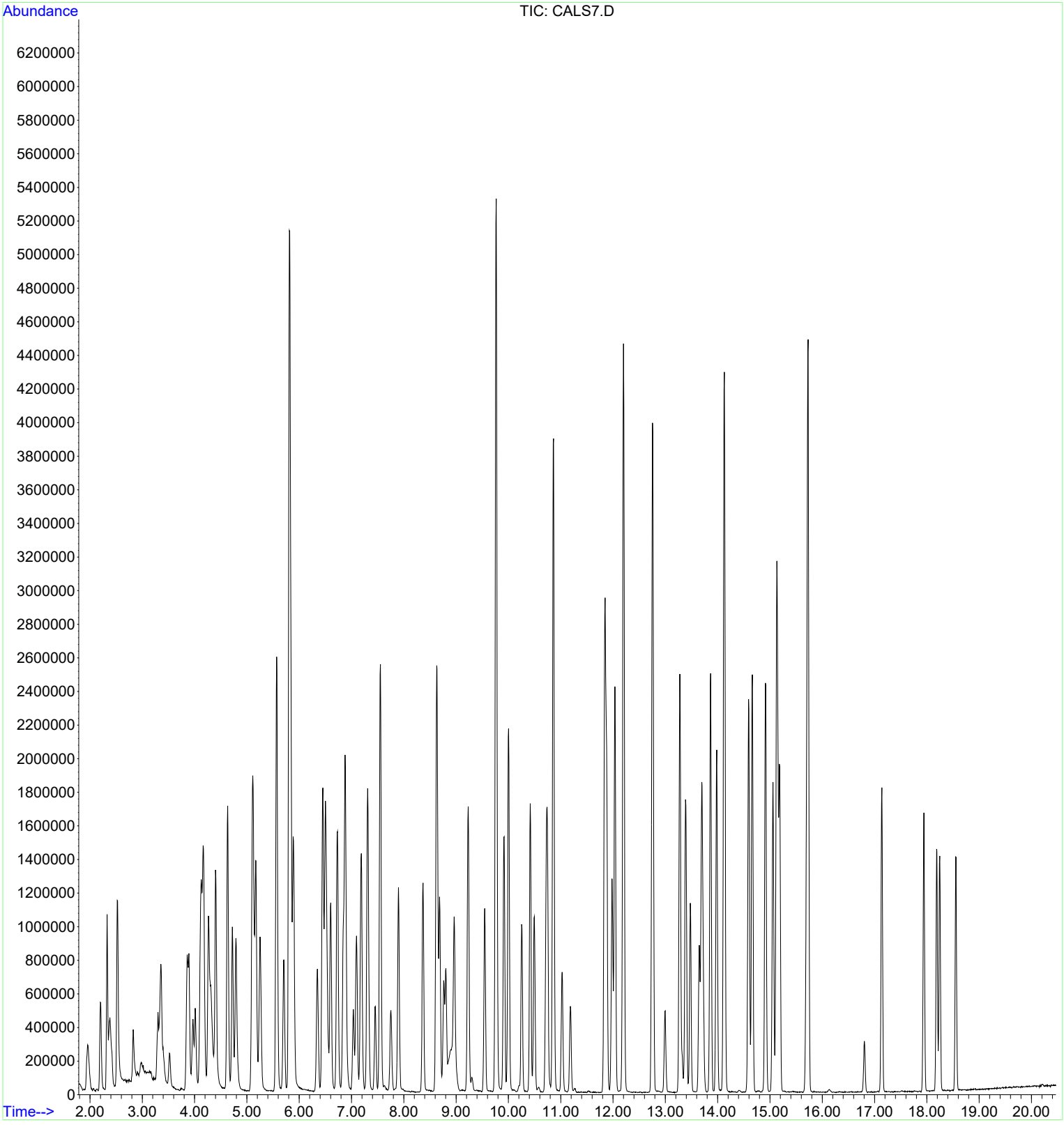
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS7.D  Vial: 10
Acq On : 25 Mar 2025 18:10  Operator: RLD-DGS
Sample : CALIB. PT. 7  Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:44:17 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS8.D Vial: 11
Acq On : 25 Mar 2025 18:38 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:44:54 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1284861 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 984327 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 510870 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 351258 | 1.015 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 82585 | 0.998 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1266364 | 0.999 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 489061 | 0.996 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.95 | 85 | 708216 | 1.9433 | mg/kg | 100 |
| 3) Chloromethan | 2.20 | 50 | 954425 | 1.8424 | mg/kg | 97 |
| 4) VinylChlorid | 2.38 | 62 | 972956 | 2.1728 | mg/kg | 100 |
| 5) Bromomethane | 2.83 | 94 | 264490 | 1.9801 | mg/kg | 90 |
| 6) Chloroethane | 2.98 | 64 | 146117 | 1.7830 | mg/kg | 98 |
| 7) dichloroflmethane | 3.29 | 67 | 997612 | 1.9460 | mg/kg | 98 |
| 8) Trichlorofma | 3.36 | 101 | 1049353 | 1.9509 | mg/kg | 98 |
| 9) Ethylether | 3.89 | 59 | 605630 | 1.9715 | mg/kg | 96 |
| 10) dichlorotfluoroethan | 3.85 | 67 | 710179 | 1.9357 | mg/kg | 99 |
| 11) propyleneoxide | 4.10 | 58 | 1167534 | 20.1137 | mg/kg | 97 |
| 12) Acrolein | 4.01 | 56 | 684684 | 9.6434 | mg/kg# | 18 |
| 13) 11dichlorthe | 4.12 | 96 | 582860 | 1.9411 | mg/kg | 99 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 1110388 | 3.8914 | mg/kg | 99 |
| 15) Acetone | 4.27 | 43 | 2746057 | 18.4446 | mg/kg | 95 |
| 16) Iodomethane | 4.31 | 127 | 465606 | 4.0699 | mg/kg | 91 |
| 17) Carbon Dislf | 4.40 | 76 | 2878975 | 3.7240 | mg/kg | 99 |
| 18) allylchloride | 4.63 | 41 | 1868138 | 3.9386 | mg/kg | 97 |
| 19) methylacetate | 4.72 | 74 | 553795 | 2.2058 | mg/kg | 100 |
| 20) Methylchlorid | 4.79 | 84 | 674115 | 1.8707 | mg/kg | 94 |
| 21) Acrylonitrile | 5.11 | 53 | 1471904 | 9.6721 | mg/kg | 99 |
| 22) t12dichlorte | 5.17 | 96 | 625509 | 1.9491 | mg/kg | 100 |
| 23) tbutylalcohol | 5.11 | 59 | 3118387 | 102.1883 | mg/kg | 97 |
| 24) MtBE | 5.25 | 73 | 1441262 | 2.0658 | mg/kg | 98 |
| 25) Hexane | 5.57 | 57 | 2058762 | 3.9622 | mg/kg | 100 |
| 26) 11dichlorota | 5.70 | 63 | 1300463 | 1.9610 | mg/kg | 98 |
| 27) Vinylacetate | 5.81 | 43 | 7307404 | 13.6326 | mg/kg | 98 |
| 28) chloroprene | 5.84 | 53 | 2091073 | 4.0648 | mg/kg | 99 |
| 29) Diisopether | 5.89 | 45 | 2152109 | 1.9588 | mg/kg | 99 |
| 30) ETBE | 6.34 | 59 | 1115695 | 2.0946 | mg/kg | 98 |
| 31) 22dichloropr | 6.45 | 77 | 865885 | 1.8944 | mg/kg | 100 |
| 32) c12dichlorte | 6.45 | 96 | 702644 | 1.9876 | mg/kg | 98 |
| 33) 2Butanone | 6.50 | 72 | 804542 | 19.9564 | mg/kg | 99 |
| 34) propionitrile | 6.52 | 54 | 1138791 | 19.2763 | mg/kg | 99 |
| 35) Ethylacetate | 6.60 | 88 | 75391 | 9.5123 | mg/kg# | 85 |
| 36) methacrylonitrile | 6.72 | 67 | 532996 | 3.9966 | mg/kg | 99 |
| 37) Bromochlorma | 6.74 | 128 | 298331 | 1.9062 | mg/kg | 94 |
| 38) Tetrahydofur | 6.88 | 42 | 2156965 | 18.5891 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS8.D Vial: 11
Acq On : 25 Mar 2025 18:38 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:44:54 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) Chloroform | 6.84 | 83 | 1127852 | 1.9471 | mg/kg | 98 |
| 40) 111trichlota | 7.10 | 97 | 997948 | 1.9786 | mg/kg | 96 |
| 42) Cyclohexane | 7.19 | 56 | 1214408 | 2.0123 | mg/kg | 99 |
| 43) Carbtetraclo | 7.31 | 119 | 874111 | 2.0313 | mg/kg | 99 |
| 44) 11dicloprope | 7.30 | 110 | 304713 | 1.9926 | mg/kg | 98 |
| 46) Benzene | 7.55 | 78 | 2509900 | 1.9459 | mg/kg | 99 |
| 47) 12dichlorota | 7.55 | 62 | 935266 | 1.9693 | mg/kg | 98 |
| 48) TAME | 7.75 | 73 | 645639 | 2.1022 | mg/kg | 95 |
| 49) trichloroete | 8.37 | 95 | 688675 | 2.0092 | mg/kg | 96 |
| 50) methylcyclohexane | 8.64 | 83 | 1075016 | 2.0623 | mg/kg | 99 |
| 51) 12dicloropra | 8.62 | 63 | 782090 | 1.9571 | mg/kg | 93 |
| 52) 23dicl1propene | 8.68 | 75 | 1011713 | 2.0191 | mg/kg | 96 |
| 53) Dibromometha | 8.76 | 93 | 412697 | 2.0507 | mg/kg | 98 |
| 54) methylmethacrylate | 8.81 | 69 | 422670 | 2.1012 | mg/kg | 99 |
| 55) 14dioxane | 8.86 | 88 | 404668 | 103.8419 | mg/kg | 97 |
| 56) Bromodiclrma | 8.96 | 83 | 892132 | 2.0415 | mg/kg | 99 |
| 57) 2Nitropropane | 9.23 | 43 | 2160157 | 20.9087 | mg/kg | 97 |
| 58) c13dicloproe | 9.55 | 75 | 1028163 | 2.0368 | mg/kg | 99 |
| 59) 4Meth2Pentan | 9.77 | 43 | 5851906 | 19.2150 | mg/kg | 95 |
| 61) Toluene | 10.00 | 92 | 1593185 | 2.0182 | mg/kg | 96 |
| 62) t13Dicloprop | 10.25 | 75 | 899632 | 2.0472 | mg/kg | 98 |
| 63) ethylmethacrylate | 10.42 | 69 | 1409262 | 4.2225 | mg/kg | 98 |
| 64) 112Triclotha | 10.49 | 83 | 484402 | 1.9780 | mg/kg | 98 |
| 65) Tetrachlorte | 10.75 | 166 | 675602 | 1.9118 | mg/kg | 98 |
| 66) 13Diclorpropa | 10.72 | 76 | 964925 | 2.0064 | mg/kg | 99 |
| 68) 2Hexanone | 10.86 | 43 | 4314483 | 19.5627 | mg/kg | 97 |
| 69) Clorodibrmta | 11.03 | 129 | 653270 | 2.0387 | mg/kg | 96 |
| 70) 12Dibrometha | 11.18 | 107 | 608227 | 2.0140 | mg/kg | 97 |
| 71) Chlorobenzen | 11.88 | 112 | 1768941 | 1.9960 | mg/kg | 98 |
| 72) 1Clhexane | 11.85 | 91 | 847080 | 1.9491 | mg/kg | 96 |
| 73) 1112Tetclota | 11.98 | 131 | 622045 | 2.0448 | mg/kg | 97 |
| 74) Ethylbenzene | 12.04 | 91 | 3004903 | 2.0495 | mg/kg | 99 |
| 75) m p-Xylene | 12.20 | 106 | 2318380 | 4.0532 | mg/kg | 96 |
| 76) o-Xylene | 12.75 | 106 | 1130073 | 2.0923 | mg/kg | 95 |
| 77) Styrene | 12.76 | 104 | 1831797 | 2.1467 | mg/kg | 96 |
| 78) Bromoform | 13.00 | 173 | 410837 | 2.0766 | mg/kg | 97 |
| 79) Isopropylben | 13.28 | 105 | 2921958 | 2.0956 | mg/kg | 100 |
| 81) cyclohexanone | 13.39 | 55 | 1601327 | 40.9687 | mg/kg | 97 |
| 83) Bromobenzene | 13.70 | 156 | 696969 | 1.9920 | mg/kg | 97 |
| 84) 1122Tetrclta | 13.65 | 83 | 752110 | 1.9021 | mg/kg | 98 |
| 85) 123Triclproa | 13.71 | 75 | 792930 | 2.0287 | mg/kg | 100 |
| 86) 14dichloro2butene | 13.74 | 53 | 70607 | 2.1175 | mg/kg | 95 |
| 87) n-Propylbenz | 13.87 | 91 | 3519827 | 2.0377 | mg/kg | 99 |
| 88) 2chlorotolue | 13.98 | 91 | 2056858 | 2.0170 | mg/kg | 98 |
| 89) 4chlorotolue | 14.13 | 91 | 2421307 | 2.0413 | mg/kg | 98 |
| 90) 135Trimebenz | 14.12 | 105 | 2524299 | 2.1327 | mg/kg | 99 |
| 91) tbutylbenzen | 14.59 | 119 | 2125694 | 2.1277 | mg/kg | 100 |
| 92) 124Trimetben | 14.66 | 105 | 2487345 | 2.1209 | mg/kg | 99 |
| 93) sbutylbenzen | 14.91 | 105 | 3139988 | 2.0824 | mg/kg | 99 |
| 94) 13Diclorbenz | 15.06 | 146 | 1325869 | 1.9868 | mg/kg | 99 |
| 95) pIsopropylto | 15.13 | 119 | 2707767 | 2.1316 | mg/kg | 99 |
| 96) 14dichlorobe | 15.19 | 146 | 1332474 | 1.9576 | mg/kg | 99 |
| 97) 12dichlorobe | 15.73 | 146 | 1234151 | 1.9756 | mg/kg | 98 |
| 98) nButylbenzen | 15.73 | 91 | 2543043 | 2.0417 | mg/kg | 98 |
| 99) 12dibromo3cl | 16.81 | 157 | 139760 | 2.1034 | mg/kg | 98 |
| 100) 135Trichlorobenzene | 17.14 | 180 | 936197 | 2.1111 | mg/kg | 94 |
| 101) 124Trichlobe | 17.94 | 180 | 806672 | 2.1471 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS8.D Vial: 11
Acq On : 25 Mar 2025 18:38 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:44:54 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 446400 | 2.0361 mg/kg | 98 |
| 103) Naphthalene | 18.25 | 128 | 1812925 | 2.2554 mg/kg | 97 |
| 104) 123Trichlben | 18.56 | 180 | 686168 | 2.1349 mg/kg | 95 |

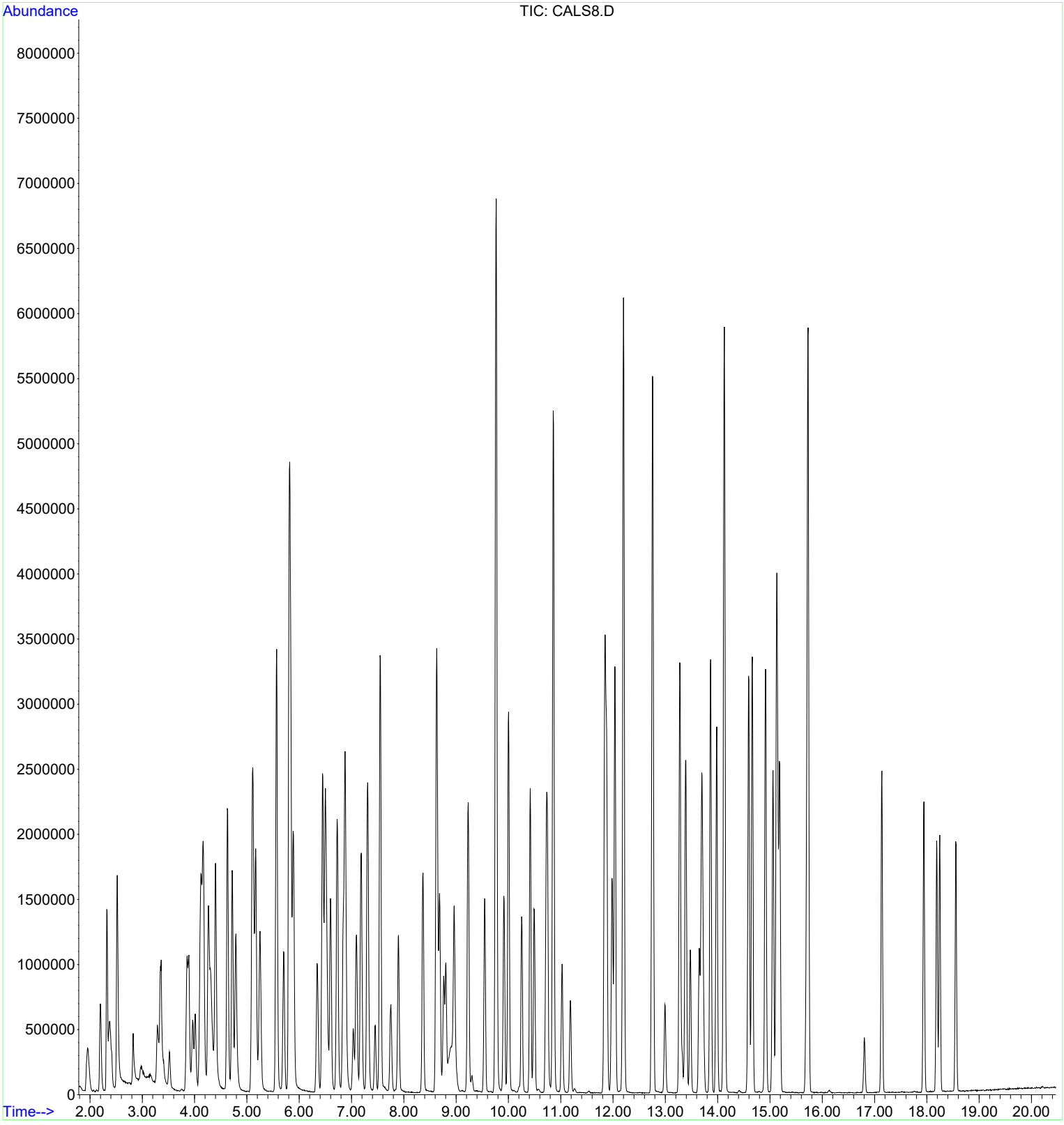
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS8.D  Vial: 11
Acq On : 25 Mar 2025 18:38  Operator: RLD-DGS
Sample : CALIB. PT. 8  Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:44:54 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS9.D Vial: 12
Acq On : 25 Mar 2025 19:06 Operator: RLD-DGS
Sample : CALIB. PT. 9 Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:45:34 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1358566 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 1017700 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 534056 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 358149 | 0.979 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 86233 | 0.985 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1341791 | 1.001 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 523593 | 1.020 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 102 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.96 | 85 | 1470063 | 3.8149 | mg/kg | 100 |
| 3) Chloromethan | 2.20 | 50 | 1881630 | 3.4352 | mg/kg | 95 |
| 4) VinylChlorid | 2.38 | 62 | 1959105 | 4.1378 | mg/kg | 99 |
| 5) Bromomethane | 2.83 | 94 | 494697 | 4.0019 | mg/kg | 90 |
| 6) Chloroethane | 2.97 | 64 | 293730 | 3.3899 | mg/kg | 96 |
| 7) dichloroflmethane | 3.30 | 67 | 2074650 | 4.0090 | mg/kg | 99 |
| 8) Trichlorofma | 3.36 | 101 | 2113824 | 3.7167 | mg/kg | 96 |
| 9) Ethylether | 3.90 | 59 | 1269137 | 3.9073 | mg/kg | 92 |
| 10) dichlorotfluoroethan | 3.86 | 67 | 1511807 | 3.8972 | mg/kg | 98 |
| 11) propyleneoxide | 4.10 | 58 | 2251254 | 36.6794 | mg/kg | 97 |
| 12) Acrolein | 4.02 | 56 | 1412048 | 18.8090 | mg/kg | 95 |
| 13) 11dichlorthe | 4.13 | 96 | 1205434 | 3.7967 | mg/kg | 99 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 2289848 | 7.5894 | mg/kg | 98 |
| 15) Acetone | 4.27 | 43 | 5193152 | 32.9887 | mg/kg | 95 |
| 16) Iodomethane | 4.32 | 127 | 1039626 | 7.5845 | mg/kg | 91 |
| 17) Carbon Dislf | 4.40 | 76 | 5887108 | 7.2019 | mg/kg | 99 |
| 18) allylchloride | 4.63 | 41 | 3656301 | 7.2903 | mg/kg | 98 |
| 19) methylacetate | 4.72 | 74 | 1073893 | 4.0454 | mg/kg | 99 |
| 20) Methylchlorid | 4.79 | 84 | 1371297 | 3.5989 | mg/kg | 92 |
| 21) Acrylonitrile | 5.12 | 53 | 2920044 | 18.1471 | mg/kg | 99 |
| 22) t12dichlorte | 5.17 | 96 | 1275969 | 3.7603 | mg/kg | 99 |
| 23) tbutylalcohol | 5.11 | 59 | 6559872 | 203.3021 | mg/kg | 96 |
| 24) MtBE | 5.25 | 73 | 3072905 | 4.1656 | mg/kg | 99 |
| 25) Hexane | 5.57 | 57 | 4236993 | 7.7120 | mg/kg | 100 |
| 26) 11dichlorota | 5.70 | 63 | 2613173 | 3.7267 | mg/kg | 97 |
| 27) Vinylacetate | 5.81 | 43 | 13336060 | 23.5298 | mg/kg | 91 |
| 28) chloroprene | 5.84 | 53 | 4202186 | 7.7253 | mg/kg | 99 |
| 29) Diisopether | 5.89 | 45 | 4230177 | 3.6413 | mg/kg | 98 |
| 30) ETBE | 6.35 | 59 | 2588593 | 3.9837 | mg/kg | 99 |
| 31) 22dichloropr | 6.45 | 77 | 1809833 | 3.7448 | mg/kg | 99 |
| 32) c12dichlorte | 6.45 | 96 | 1431787 | 3.8304 | mg/kg | 98 |
| 33) 2Butanone | 6.50 | 72 | 1620422 | 38.0134 | mg/kg | 99 |
| 34) propionitrile | 6.52 | 54 | 2301137 | 36.8382 | mg/kg | 98 |
| 35) Ethylacetate | 6.60 | 88 | 161107 | 19.2246 | mg/kg# | 80 |
| 36) methacrylonitrile | 6.72 | 67 | 1087039 | 7.7088 | mg/kg | 98 |
| 37) Bromochlorma | 6.74 | 128 | 579605 | 3.5026 | mg/kg | 95 |
| 38) Tetrahydofur | 6.88 | 42 | 4306154 | 35.0978 | mg/kg | 96 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS9.D Vial: 12
Acq On : 25 Mar 2025 19:06 Operator: RLD-DGS
Sample : CALIB. PT. 9 Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:45:34 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 2295667 | 3.7482 | mg/kg | 97 |
| 40) | 111trichlota | 7.10 | 97 | 2066864 | 3.8756 | mg/kg | 97 |
| 42) | Cyclohexane | 7.18 | 56 | 2519813 | 3.9489 | mg/kg | 99 |
| 43) | Carbtetraclo | 7.32 | 119 | 1855735 | 4.0785 | mg/kg | 100 |
| 44) | 11dicloprope | 7.30 | 110 | 647787 | 4.0062 | mg/kg | 94 |
| 46) | Benzene | 7.55 | 78 | 5023108 | 3.6831 | mg/kg | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 1908314 | 3.8001 | mg/kg | 100 |
| 48) | TAME | 7.75 | 73 | 1622101 | 3.9841 | mg/kg | 94 |
| 49) | trichloroete | 8.37 | 95 | 1421410 | 3.9219 | mg/kg | 98 |
| 50) | methylcyclohexane | 8.64 | 83 | 2296295 | 4.1662 | mg/kg | 98 |
| 51) | 12dicloropra | 8.62 | 63 | 1587219 | 3.7564 | mg/kg | 92 |
| 52) | 23dicl1propene | 8.68 | 75 | 2179931 | 4.1146 | mg/kg | 96 |
| 53) | Dibromometha | 8.76 | 93 | 841739 | 3.9557 | mg/kg | 98 |
| 54) | methylmethacrylate | 8.81 | 69 | 901569 | 4.2388 | mg/kg | 98 |
| 55) | 14dioxane | 8.87 | 88 | 771390 | 187.2074 | mg/kg | 97 |
| 56) | Bromodiclrma | 8.96 | 83 | 1837577 | 3.9768 | mg/kg | 100 |
| 57) | 2Nitropropane | 9.23 | 43 | 4382319 | 40.1164 | mg/kg | 96 |
| 58) | c13dicloproe | 9.55 | 75 | 2125130 | 3.9815 | mg/kg | 99 |
| 59) | 4Meth2Pentan | 9.77 | 43 | 10667149 | 33.1258 | mg/kg | 89 |
| 61) | Toluene | 10.00 | 92 | 3205280 | 3.8401 | mg/kg | 94 |
| 62) | t13Dicloprop | 10.25 | 75 | 1876310 | 4.0382 | mg/kg | 98 |
| 63) | ethylmethacrylate | 10.42 | 69 | 2946461 | 8.3495 | mg/kg | 96 |
| 64) | 112Triclotha | 10.50 | 83 | 973071 | 3.7578 | mg/kg | 98 |
| 65) | Tetrachlorte | 10.75 | 166 | 1404520 | 3.7588 | mg/kg | 98 |
| 66) | 13Diclorpropa | 10.72 | 76 | 1943274 | 3.8214 | mg/kg | 100 |
| 68) | 2Hexanone | 10.86 | 43 | 8082788 | 35.4470 | mg/kg | 93 |
| 69) | Clorodibrmta | 11.03 | 129 | 1387479 | 4.1880 | mg/kg | 97 |
| 70) | 12Dibrometha | 11.18 | 107 | 1239248 | 3.9689 | mg/kg | 96 |
| 71) | Chlorobenzen | 11.88 | 112 | 3525735 | 3.8478 | mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 1795803 | 3.9966 | mg/kg | 94 |
| 73) | 1112Tetclota | 11.98 | 131 | 1309897 | 4.1647 | mg/kg | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 6017299 | 3.9696 | mg/kg | 98 |
| 75) | m p-Xylene | 12.20 | 106 | 4726316 | 7.9921 | mg/kg | 90 |
| 76) | o-Xylene | 12.75 | 106 | 2304490 | 4.1267 | mg/kg | 92 |
| 77) | Styrene | 12.76 | 104 | 3765681 | 4.2684 | mg/kg | 96 |
| 78) | Bromoform | 13.00 | 173 | 866580 | 4.2366 | mg/kg | 99 |
| 79) | Isopropylben | 13.28 | 105 | 5848905 | 4.0573 | mg/kg | 98 |
| 81) | cyclohexanone | 13.39 | 55 | 3148854 | 77.0635 | mg/kg | 97 |
| 83) | Bromobenzene | 13.70 | 156 | 1418847 | 3.8791 | mg/kg | 96 |
| 84) | 1122Tetrclta | 13.65 | 83 | 1540101 | 3.7258 | mg/kg | 98 |
| 85) | 123Triclproa | 13.71 | 75 | 1623441 | 3.9733 | mg/kg | 100 |
| 86) | 14dichloro2butene | 13.74 | 53 | 155853 | 4.4711 | mg/kg | 95 |
| 87) | n-Propylbenz | 13.87 | 91 | 6923624 | 3.8342 | mg/kg | 96 |
| 88) | 2chlorotolue | 13.98 | 91 | 4157042 | 3.8994 | mg/kg | 97 |
| 89) | 4chlorotolue | 14.13 | 91 | 4798880 | 3.8700 | mg/kg | 97 |
| 90) | 135Trimebenz | 14.12 | 105 | 5052380 | 4.0832 | mg/kg | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 4360068 | 4.1747 | mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 4973356 | 4.0566 | mg/kg | 98 |
| 93) | sbutylbenzen | 14.91 | 105 | 6320633 | 4.0098 | mg/kg | 98 |
| 94) | 13Diclorbenz | 15.06 | 146 | 2675518 | 3.8352 | mg/kg | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 5446337 | 4.1013 | mg/kg | 98 |
| 96) | 14dichlorobe | 15.19 | 146 | 2707631 | 3.8051 | mg/kg | 99 |
| 97) | 12dichlorobe | 15.73 | 146 | 2479350 | 3.7966 | mg/kg | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 5137679 | 3.9458 | mg/kg | 97 |
| 99) | 12dibromo3cl | 16.81 | 157 | 295137 | 4.2491 | mg/kg | 98 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 1895690 | 4.0891 | mg/kg | 95 |
| 101) | 124Trichlobe | 17.94 | 180 | 1638278 | 4.1712 | mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS9.D Vial: 12
Acq On : 25 Mar 2025 19:06 Operator: RLD-DGS
Sample : CALIB. PT. 9 Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:45:34 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 961646 | 4.1958 | mg/kg | 98 |
| 103) Naphthalene | 18.25 | 128 | 3779428 | 4.4978 | mg/kg | 97 |
| 104) 123Trichlben | 18.56 | 180 | 1420215 | 4.2269 | mg/kg | 97 |

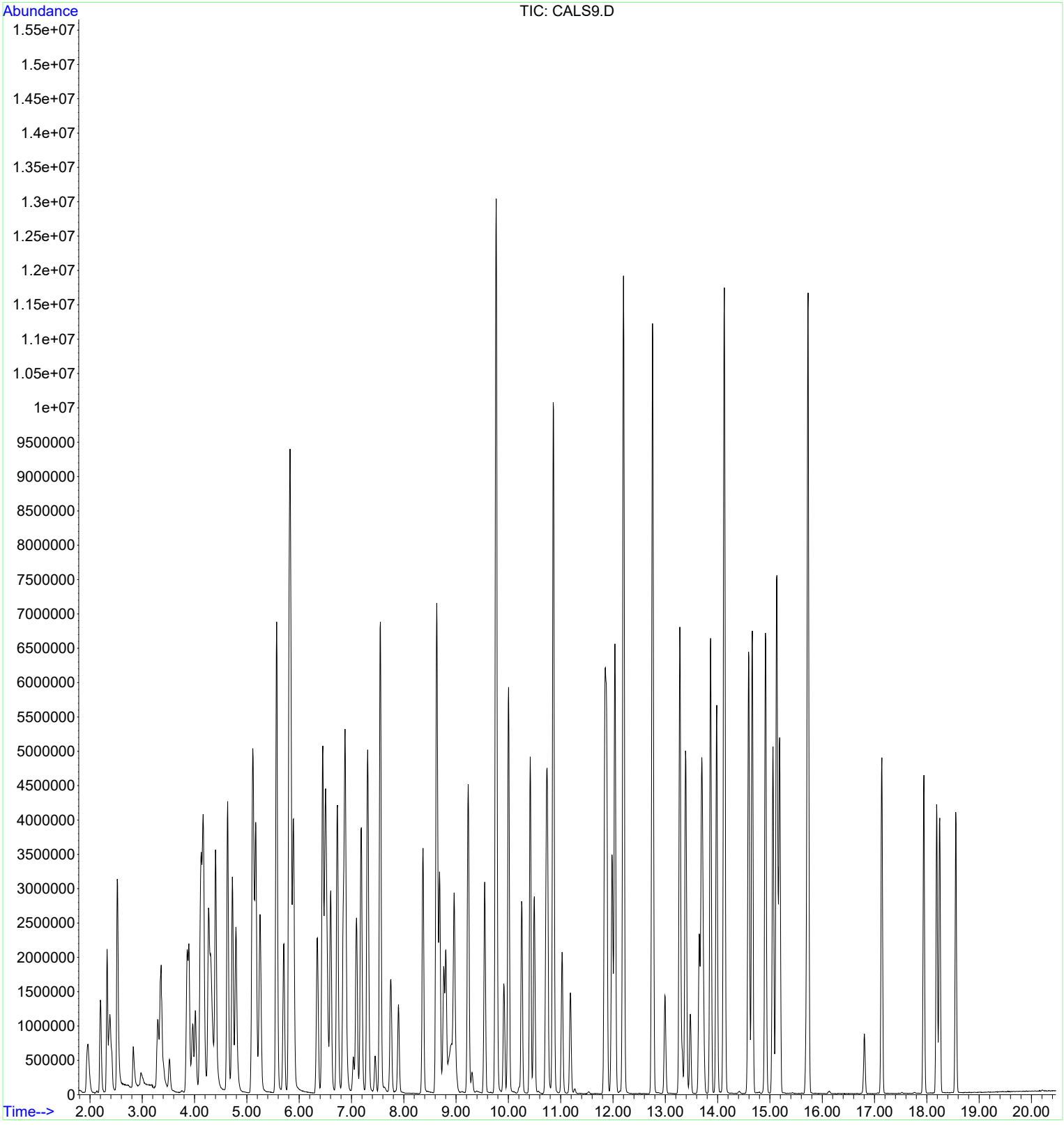
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\CALS9.D  Vial: 12
Acq On : 25 Mar 2025 19:06  Operator: RLD-DGS
Sample : CALIB. PT. 9  Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 31 08:45:34 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Mar 27 08:40:01 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\MAR2525\ICV1.D  Vial: 14
Acq On : 25 Mar 2025 20:01  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Mar 26 07:36:08 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 108 | 0.00 |
| 2 | T | Dichlorodi | 0.2836 | 0.2833 | 0.11 | 104 | 0.00 |
| 3 | PT | Chloromethan | 0.4032 | 0.3663 | 9.15 | 98 | 0.00 |
| 4 | CT | VinylChlorid | 0.3485 | 0.3861 | -10.79 | 111 | 0.00 |
| 5 | T | Bromomethane | 0.1423 | 0.1244 | 12.58 | 109 | 0.00 |
| 6 | T | Chloroethane | 0.0638 | 0.0639 | -0.16 | 115 | 0.00 |
| 7 | T | dichloroflmethane | 0.3862 | 0.3964 | -2.64 | 89 | 0.00 |
| 8 | T | Trichlorofma | 0.4186 | 0.3947 | 5.71 | 88 | 0.00 |
| 9 | T | Ethylether | 0.2391 | 0.2441 | -2.09 | 112 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2855 | 0.2920 | -2.28 | 109 | 0.00 |
| 11 | T | propyleneoxide | 0.0452 | 0.0492 | -8.85 | 116 | 0.00 |
| 12 | T | Acrolein | 0.0553 | 0.0572 | -3.44 | 114 | 0.00 |
| 13 | CT | 11dichlorthe | 0.2337 | 0.2403 | -2.82 | 109 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.2221 | 0.2382 | -7.25 | 112 | 0.01 |
| 15 | T | Acetone | 0.1159 | 0.1249 | -7.77 | 115 | 0.00 |
| 16 | T | Iodomethane | 0.0999 | 0.0838 | 16.12 | 166 | 0.00 |
| 17 | T | Carbon Dislf | 0.6017 | 0.5874 | 2.38 | 107 | 0.00 |
| 18 | T | allylchloride | 0.3692 | 0.3823 | -3.55 | 112 | 0.00 |
| 19 | T | methylacetate | 0.1954 | 0.2337 | -19.60 | 122 | 0.00 |
| 20 | T | Methylchlorid | 0.2805 | 0.2648 | 5.60 | 109 | 0.00 |
| 21 | T | Acrylonitrile | 0.1184 | 0.1227 | -3.63 | 109 | 0.00 |
| 22 | T | t12dichlorte | 0.2498 | 0.2511 | -0.52 | 109 | 0.00 |
| 23 | T | tbutylalcohol | 0.0238 | 0.0263 | -10.50 | 121 | -0.01 |
| 24 | T | MtBE | 0.5430 | 0.5921 | -9.04 | 118 | 0.00 |
| 25 | T | Hexane | 0.4044 | 0.4286 | -5.98 | 109 | 0.00 |
| 26 | PT | 11dichlorota | 0.5161 | 0.5060 | 1.96 | 105 | 0.00 |
| 27 | T | Vinylacetate | 0.4172 | 0.3497 | 16.18 | 94 | 0.00 |
| 28 | T | chloroprene | 0.4004 | 0.4263 | -6.47 | 112 | 0.00 |
| 29 | T | Diisopether | 0.8551 | 0.8652 | -1.18 | 109 | 0.00 |
| 30 | T | ETBE | 0.3843 | 0.4665 | -21.39# | 145 | 0.00 |
| 31 | T | 22dichloropr | 0.3557 | 0.3348 | 5.88 | 107 | 0.00 |
| 32 | T | c12dichlorte | 0.2751 | 0.2777 | -0.95 | 109 | 0.00 |
| 33 | T | 2Butanone | 0.0314 | 0.0351 | -11.78 | 117 | 0.00 |
| 34 | T | propionitrile | 0.0460 | 0.0484 | -5.22 | 110 | 0.00 |
| 35 | T | Ethylacetate | 0.0062 | 0.0067# | -8.06 | 127 | 0.01 |
| 36 | T | methacrylonitrile | 0.1038 | 0.1099 | -5.88 | 110 | 0.00 |
| 37 | T | Bromochlorma | 0.1218 | 0.1227 | -0.74 | 108 | 0.00 |
| 38 | T | Tetrahydofur | 0.0903 | 0.0897 | 0.66 | 108 | 0.00 |
| 39 | CT | Chloroform | 0.4508 | 0.4524 | -0.35 | 107 | 0.00 |
| 40 | T | 111trichlota | 0.3926 | 0.3895 | 0.79 | 110 | 0.00 |
| 41 | S | SURRDibrflma | 0.2694 | 0.2727 | -1.22 | 110 | 0.00 |
| 42 | T | Cyclohexane | 0.4697 | 0.5105 | -8.69 | 114 | 0.00 |
| 43 | T | Carbtetraclo | 0.3349 | 0.3473 | -3.70 | 111 | 0.00 |
| 44 | T | 11dicloprope | 0.1190 | 0.1229 | -3.28 | 110 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0644 | 0.0637 | 1.09 | 109 | 0.00 |
| 46 | T | Benzene | 1.0039 | 1.0049 | -0.10 | 109 | 0.00 |
| 47 | T | 12dichlorota | 0.3696 | 0.3809 | -3.06 | 109 | 0.00 |
| 48 | T | TAME | 0.2100 | 0.2587 | -23.19# | 171 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.2668 | 0.2795 | -4.76 | 116 | 0.00 |
| 50 | T | methylcyclohexane | 0.4057 | 0.4587 | -13.06 | 117 | 0.00 |
| 51 | CT | 12dicloropra | 0.3110 | 0.3093 | 0.55 | 109 | 0.00 |
| 52 | T | 23dicl1propene | 0.3900 | 0.4065 | -4.23 | 109 | 0.00 |
| 53 | T | Dibromometha | 0.1566 | 0.1625 | -3.77 | 110 | 0.00 |
| 54 | T | methylmethacrylate | 0.1566 | 0.1660 | -6.00 | 113 | 0.00 |
| 55 | T | 14dioxane | 0.0030 | 0.0031# | -3.33 | 104 | 0.00 |
| 56 | T | Bromodiclrma | 0.3401 | 0.3458 | -1.68 | 108 | 0.00 |
| 57 | T | 2Nitropropane | 0.0804 | 0.0861 | -7.09 | 112 | 0.00 |
| 58 | T | c13dicloproe | 0.3929 | 0.4022 | -2.37 | 108 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.2370 | 0.2509 | -5.86 | 108 | 0.00 |
| 60 | S | SURRd8Tolule | 0.9864 | 0.9979 | -1.17 | 109 | 0.00 |
| 61 | CT | Toluene | 0.6144 | 0.6319 | -2.85 | 111 | 0.00 |
| 62 | T | t13Dicloprop | 0.3420 | 0.3474 | -1.58 | 113 | 0.00 |
| 63 | T | ethylmethacrylate | 0.2598 | 0.2778 | -6.93 | 112 | 0.00 |
| 64 | T | 112Triclotha | 0.1906 | 0.1955 | -2.57 | 107 | 0.00 |
| 65 | T | Tetrachlorte | 0.2750 | 0.2664 | 3.13 | 109 | 0.00 |
| 66 | T | 13Diclorpropa | 0.3743 | 0.3802 | -1.58 | 108 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 108 | 0.00 |
| 68 | T | 2Hexanone | 0.2241 | 0.2396 | -6.92 | 110 | 0.00 |
| 69 | T | Clorodibrmta | 0.3255 | 0.3293 | -1.17 | 106 | 0.00 |
| 70 | T | 12Dibrometha | 0.3068 | 0.3060 | 0.26 | 105 | 0.00 |
| 71 | PT | Chlorobenzen | 0.9004 | 0.8995 | 0.10 | 107 | 0.00 |
| 72 | T | 1Clhexane | 0.4415 | 0.4590 | -3.96 | 116 | 0.00 |
| 73 | T | 1112Tetclota | 0.3091 | 0.3177 | -2.78 | 111 | 0.00 |
| 74 | CT | Ethylbenzene | 1.4895 | 1.5411 | -3.46 | 111 | 0.00 |
| 75 | T | m p-Xylene | 0.5811 | 0.6003 | -3.30 | 112 | 0.00 |
| 76 | T | o-Xylene | 0.5487 | 0.5658 | -3.12 | 113 | 0.00 |
| 77 | T | Styrene | 0.8669 | 0.9038 | -4.26 | 108 | 0.00 |
| 78 | PT | Bromoform | 0.2010 | 0.1962 | 2.39 | 106 | 0.00 |
| 79 | T | Isopropylben | 1.4165 | 1.5060 | -6.32 | 114 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 107 | 0.00 |
| 81 | T | cyclohexanone | 0.0765 | 0.0894 | -16.86 | 118 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.9612 | 0.9841 | -2.38 | 111 | 0.00 |
| 83 | T | Bromobenzene | 0.6849 | 0.6935 | -1.26 | 112 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.7740 | 0.7637 | 1.33 | 106 | 0.00 |
| 85 | T | 123Triclproa | 0.7651 | 0.7725 | -0.97 | 109 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0653 | 0.0611 | 6.43 | 111 | 0.00 |
| 87 | T | n-Propylbenz | 3.3812 | 3.5140 | -3.93 | 109 | 0.00 |
| 88 | T | 2chlorotolue | 1.9962 | 2.0221 | -1.30 | 107 | 0.00 |
| 89 | T | 4chlorotolue | 2.3219 | 2.4600 | -5.95 | 111 | 0.00 |
| 90 | T | 135Trimebenz | 2.3169 | 2.4623 | -6.28 | 111 | 0.00 |
| 91 | T | tbutylbenzen | 1.9556 | 2.0973 | -7.25 | 113 | 0.00 |
| 92 | T | 124Trimetben | 2.2956 | 2.4445 | -6.49 | 111 | 0.00 |
| 93 | T | sbutylbenzen | 2.9515 | 3.1584 | -7.01 | 112 | 0.00 |
| 94 | T | 13Diclorbenz | 1.3063 | 1.2902 | 1.23 | 108 | 0.00 |
| 95 | T | pIsopropylto | 2.4866 | 2.6778 | -7.69 | 112 | 0.00 |
| 96 | T | 14dichlorobe | 1.3324 | 1.3548 | -1.68 | 110 | 0.00 |
| 97 | T | 12dichlorobe | 1.2228 | 1.2433 | -1.68 | 109 | 0.00 |
| 98 | T | nButylbenzen | 2.4380 | 2.4932 | -2.26 | 110 | 0.00 |
| 99 | T | 12dibromo3cl | 0.1301 | 0.1336 | -2.69 | 116 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.8681 | 0.8930 | -2.87 | 113 | 0.00 |
| 101 | T | 124Trichlobe | 0.7354 | 0.7493 | -1.89 | 112 | 0.00 |
| 102 | T | Hexachlorobu | 0.4292 | 0.4405 | -2.63 | 116 | 0.00 |
| 103 | T | Naphthalene | 1.5734 | 1.7160 | -9.06 | 119 | 0.00 |
| 104 | T | 123Trichlben | 0.6291 | 0.6396 | -1.67 | 113 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Fri Mar 28 13:08:32 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\MAR2525\ICV1.D  Vial: 14
Acq On : 25 Mar 2025 20:01  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Mar 26 07:36:08 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 108 | 0.00 |
| 2 | T | Dichlorodi | 0.5000 | 0.4994 | 0.12 | 104 | 0.00 |
| 3 | PT | Chloromethan | 0.5000 | 0.4543 | 9.14 | 98 | 0.00 |
| 4 | CT | VinylChlorid | 0.5000 | 0.5540 | -10.80 | 111 | 0.00 |
| 5 | T | Bromomethane | 0.5000 | 0.4965 | 0.70 | 109 | 0.00 |
| 6 | T | Chloroethane | 0.5000 | 0.5006 | -0.12 | 115 | 0.00 |
| 7 | T | dichloroflmethane | 0.5000 | 0.4773 | 4.54 | 89 | 0.00 |
| 8 | T | Trichlorofma | 0.5000 | 0.4714 | 5.72 | 88 | 0.00 |
| 9 | T | Ethylether | 0.5000 | 0.5104 | -2.08 | 112 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.5000 | 0.5114 | -2.28 | 109 | 0.00 |
| 11 | T | propyleneoxide | 5.0000 | 5.4433 | -8.87 | 116 | 0.00 |
| 12 | T | Acrolein | 2.5000 | 2.5880 | -3.52 | 114 | 0.00 |
| 13 | CT | 11dichlorthe | 0.5000 | 0.5141 | -2.82 | 109 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 1.0000 | 1.0725 | -7.25 | 112 | 0.01 |
| 15 | T | Acetone | 5.0000 | 5.3895 | -7.79 | 115 | 0.00 |
| 16 | T | Iodomethane | 1.0000 | 1.0966 | -9.66 | 166 | 0.00 |
| 17 | T | Carbon Dislf | 1.0000 | 0.9762 | 2.38 | 107 | 0.00 |
| 18 | T | allylchloride | 1.0000 | 1.0357 | -3.57 | 112 | 0.00 |
| 19 | T | methylacetate | 0.5000 | 0.5981 | -19.62 | 122 | 0.00 |
| 20 | T | Methylchlorid | 0.5000 | 0.4720 | 5.60 | 109 | 0.00 |
| 21 | T | Acrylonitrile | 2.5000 | 2.5893 | -3.57 | 109 | 0.00 |
| 22 | T | t12dichlorte | 0.5000 | 0.5026 | -0.52 | 109 | 0.00 |
| 23 | T | tbutylalcohol | 25.0000 | 27.6856 | -10.74 | 121 | -0.01 |
| 24 | T | MtBE | 0.5000 | 0.5453 | -9.06 | 118 | 0.00 |
| 25 | T | Hexane | 1.0000 | 1.0599 | -5.99 | 109 | 0.00 |
| 26 | PT | 11dichlorota | 0.5000 | 0.4902 | 1.96 | 105 | 0.00 |
| 27 | T | Vinylacetate | 5.0000 | 4.1916 | 16.17 | 94 | 0.00 |
| 28 | T | chloroprene | 1.0000 | 1.0648 | -6.48 | 112 | 0.00 |
| 29 | T | Diisopether | 0.5000 | 0.5059 | -1.18 | 109 | 0.00 |
| 30 | T | ETBE | 0.5000 | 0.6495 | -29.90# | 145 | 0.00 |
| 31 | T | 22dichloropr | 0.5000 | 0.4705 | 5.90 | 107 | 0.00 |
| 32 | T | c12dichlorte | 0.5000 | 0.5047 | -0.94 | 109 | 0.00 |
| 33 | T | 2Butanone | 5.0000 | 5.5916 | -11.83 | 117 | 0.00 |
| 34 | T | propionitrile | 5.0000 | 5.2680 | -5.36 | 110 | 0.00 |
| 35 | T | Ethylacetate | 2.5000 | 2.7269 | -9.08 | 127 | 0.01 |
| 36 | T | methacrylonitrile | 1.0000 | 1.0587 | -5.87 | 110 | 0.00 |
| 37 | T | Bromochlorma | 0.5000 | 0.5036 | -0.72 | 108 | 0.00 |
| 38 | T | Tetrahydofur | 5.0000 | 4.9669 | 0.66 | 108 | 0.00 |
| 39 | CT | Chloroform | 0.5000 | 0.5017 | -0.34 | 107 | 0.00 |
| 40 | T | 111trichlota | 0.5000 | 0.4961 | 0.78 | 110 | 0.00 |
| 41 | S | SURRDibrflma | 1.0000 | 1.0123 | -1.23 | 110 | 0.00 |
| 42 | T | Cyclohexane | 0.5000 | 0.5434 | -8.68 | 114 | 0.00 |
| 43 | T | Carbtetraclo | 0.5000 | 0.5185 | -3.70 | 111 | 0.00 |
| 44 | T | 11dicloprope | 0.5000 | 0.5162 | -3.24 | 110 | 0.00 |
| 45 | S | SURR12DCAd4 | 1.0000 | 0.9894 | 1.06 | 109 | 0.00 |
| 46 | T | Benzene | 0.5000 | 0.5005 | -0.10 | 109 | 0.00 |
| 47 | T | 12dichlorota | 0.5000 | 0.5152 | -3.04 | 109 | 0.00 |
| 48 | T | TAME | 0.5000 | 0.6847 | -36.94# | 171 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.5000 | 0.5239 | -4.78 | 116 | 0.00 |
| 50 | T | methylcyclohexane | 0.5000 | 0.5654 | -13.08 | 117 | 0.00 |
| 51 | CT | 12dicloropra | 0.5000 | 0.4972 | 0.56 | 109 | 0.00 |
| 52 | T | 23dicl1propene | 0.5000 | 0.5212 | -4.24 | 109 | 0.00 |
| 53 | T | Dibromometha | 0.5000 | 0.5189 | -3.78 | 110 | 0.00 |
| 54 | T | methylmethacrylate | 0.5000 | 0.5302 | -6.04 | 113 | 0.00 |
| 55 | T | 14dioxane | 25.0000 | 25.3806 | -1.52 | 104 | 0.00 |
| 56 | T | Bromodiclrma | 0.5000 | 0.5084 | -1.68 | 108 | 0.00 |
| 57 | T | 2Nitropropane | 5.0000 | 5.3509 | -7.02 | 112 | 0.00 |
| 58 | T | c13dicloproe | 0.5000 | 0.5118 | -2.36 | 108 | 0.00 |
| 59 | T | 4Meth2Pentan | 5.0000 | 5.2921 | -5.84 | 108 | 0.00 |
| 60 | S | SURRd8Tolule | 1.0000 | 1.0116 | -1.16 | 109 | 0.00 |
| 61 | CT | Toluene | 0.5000 | 0.5142 | -2.84 | 111 | 0.00 |
| 62 | T | t13Dicloprop | 0.5000 | 0.5079 | -1.58 | 113 | 0.00 |
| 63 | T | ethylmethacrylate | 1.0000 | 1.0695 | -6.95 | 112 | 0.00 |
| 64 | T | 112Triclotha | 0.5000 | 0.5129 | -2.58 | 107 | 0.00 |
| 65 | T | Tetrachlorte | 0.5000 | 0.4843 | 3.14 | 109 | 0.00 |
| 66 | T | 13Diclorpropa | 0.5000 | 0.5079 | -1.58 | 108 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 108 | 0.00 |
| 68 | T | 2Hexanone | 5.0000 | 5.3466 | -6.93 | 110 | 0.00 |
| 69 | T | Clorodibrmta | 0.5000 | 0.5058 | -1.16 | 106 | 0.00 |
| 70 | T | 12Dibrometha | 0.5000 | 0.4986 | 0.28 | 105 | 0.00 |
| 71 | PT | Chlorobenzen | 0.5000 | 0.4995 | 0.10 | 107 | 0.00 |
| 72 | T | 1Clhexane | 0.5000 | 0.5198 | -3.96 | 116 | 0.00 |
| 73 | T | 1112Tetclota | 0.5000 | 0.5140 | -2.80 | 111 | 0.00 |
| 74 | CT | Ethylbenzene | 0.5000 | 0.5173 | -3.46 | 111 | 0.00 |
| 75 | T | m p-Xylene | 1.0000 | 1.0330 | -3.30 | 112 | 0.00 |
| 76 | T | o-Xylene | 0.5000 | 0.5156 | -3.12 | 113 | 0.00 |
| 77 | T | Styrene | 0.5000 | 0.5213 | -4.26 | 108 | 0.00 |
| 78 | PT | Bromoform | 0.5000 | 0.4880 | 2.40 | 106 | 0.00 |
| 79 | T | Isopropylben | 0.5000 | 0.5316 | -6.32 | 114 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 107 | 0.00 |
| 81 | T | cyclohexanone | 10.0000 | 11.6853 | -16.85 | 118 | 0.00 |
| 82 | S | SURR4BrFBenz | 1.0000 | 1.0238 | -2.38 | 111 | 0.00 |
| 83 | T | Bromobenzene | 0.5000 | 0.5063 | -1.26 | 112 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.5000 | 0.4934 | 1.32 | 106 | 0.00 |
| 85 | T | 123Triclproa | 0.5000 | 0.5048 | -0.96 | 109 | 0.00 |
| 86 | T | 14dichloro2butene | 0.5000 | 0.4679 | 6.42 | 111 | 0.00 |
| 87 | T | n-Propylbenz | 0.5000 | 0.5196 | -3.92 | 109 | 0.00 |
| 88 | T | 2chlorotolue | 0.5000 | 0.5065 | -1.30 | 107 | 0.00 |
| 89 | T | 4chlorotolue | 0.5000 | 0.5297 | -5.94 | 111 | 0.00 |
| 90 | T | 135Trimebenz | 0.5000 | 0.5314 | -6.28 | 111 | 0.00 |
| 91 | T | tbutylbenzen | 0.5000 | 0.5362 | -7.24 | 113 | 0.00 |
| 92 | T | 124Trimetben | 0.5000 | 0.5324 | -6.48 | 111 | 0.00 |
| 93 | T | sbutylbenzen | 0.5000 | 0.5350 | -7.00 | 112 | 0.00 |
| 94 | T | 13Diclorbenz | 0.5000 | 0.4939 | 1.22 | 108 | 0.00 |
| 95 | T | pIsopropylto | 0.5000 | 0.5385 | -7.70 | 112 | 0.00 |
| 96 | T | 14dichlorobe | 0.5000 | 0.5084 | -1.68 | 110 | 0.00 |
| 97 | T | 12dichlorobe | 0.5000 | 0.5084 | -1.68 | 109 | 0.00 |
| 98 | T | nButylbenzen | 0.5000 | 0.5113 | -2.26 | 110 | 0.00 |
| 99 | T | 12dibromo3cl | 0.5000 | 0.5138 | -2.76 | 116 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.5000 | 0.5144 | -2.88 | 113 | 0.00 |
| 101 | T | 124Trichlobe | 0.5000 | 0.5095 | -1.90 | 112 | 0.00 |
| 102 | T | Hexachlorobu | 0.5000 | 0.5132 | -2.64 | 116 | 0.00 |
| 103 | T | Naphthalene | 0.5000 | 0.5453 | -9.06 | 119 | 0.00 |
| 104 | T | 123Trichlben | 0.5000 | 0.5083 | -1.66 | 113 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Fri Mar 28 13:08:54 2025

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICV1.D  Vial: 14
Acq On : 25 Mar 2025 20:01  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:36:08 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:35:15 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1319749 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 1011655 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 517730 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 359894 | 1.012 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 84123 | 0.989 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1316970 | 1.012 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 509513 | 1.024 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 102 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.96 | 85 | 186955 | 0.4994 | mg/kg | 100 |
| 3) Chloromethan | 2.20 | 50 | 241709 | 0.4543 | mg/kg | 99 |
| 4) VinylChlorid | 2.38 | 62 | 254798 | 0.5540 | mg/kg | 94 |
| 5) Bromomethane | 2.83 | 94 | 82113 | 0.4965 | mg/kg | 91 |
| 6) Chloroethane | 2.98 | 64 | 42134 | 0.5006 | mg/kg | 98 |
| 7) dichloroflmethane | 3.29 | 67 | 261582 | 0.4773 | mg/kg | 99 |
| 8) Trichlorofma | 3.36 | 101 | 260463 | 0.4714 | mg/kg | 95 |
| 9) Ethylether | 3.90 | 59 | 161045 | 0.5104 | mg/kg | 95 |
| 10) dichlorotfluoroethan | 3.86 | 67 | 192709 | 0.5114 | mg/kg | 98 |
| 11) propyleneoxide | 4.10 | 58 | 324544 | 5.4433 | mg/kg | 97 |
| 12) Acrolein | 4.02 | 56 | 188735 | 2.5880 | mg/kg# | 23 |
| 13) 11dichlorthe | 4.13 | 96 | 158548 | 0.5141 | mg/kg | 99 |
| 14) Trichlorotfluoroeth | 4.18 | 101 | 314332 | 1.0725 | mg/kg | 98 |
| 15) Acetone | 4.27 | 43 | 824192 | 5.3895 | mg/kg | 97 |
| 16) Iodomethane | 4.32 | 127 | 110575 | 1.0966 | mg/kg | 95 |
| 17) Carbon Dislf | 4.41 | 76 | 775207 | 0.9762 | mg/kg | 99 |
| 18) allylchloride | 4.63 | 41 | 504593 | 1.0357 | mg/kg | 98 |
| 19) methylacetate | 4.72 | 74 | 154239 | 0.5981 | mg/kg | 97 |
| 20) Methylchlorid | 4.79 | 84 | 174719 | 0.4720 | mg/kg | 96 |
| 21) Acrylonitrile | 5.11 | 53 | 404741 | 2.5893 | mg/kg | 99 |
| 22) t12dichlorte | 5.17 | 96 | 165672 | 0.5026 | mg/kg | 100 |
| 23) tbutylalcohol | 5.10 | 59 | 867797 | 27.6856 | mg/kg | 97 |
| 24) MtBE | 5.25 | 73 | 390740 | 0.5453 | mg/kg | 99 |
| 25) Hexane | 5.57 | 57 | 565674 | 1.0599 | mg/kg | 100 |
| 26) 11dichlorota | 5.71 | 63 | 333926 | 0.4902 | mg/kg | 98 |
| 27) Vinylacetate | 5.81 | 43 | 2307812 | 4.1916 | mg/kg | 98 |
| 28) chloroprene | 5.84 | 53 | 562639 | 1.0648 | mg/kg | 99 |
| 29) Diisopether | 5.89 | 45 | 570915 | 0.5059 | mg/kg | 99 |
| 30) ETBE | 6.35 | 59 | 307800 | 0.6495 | mg/kg | 97 |
| 31) 22dichloropr | 6.46 | 77 | 220907 | 0.4705 | mg/kg | 98 |
| 32) c12dichlorte | 6.45 | 96 | 183252 | 0.5047 | mg/kg | 98 |
| 33) 2Butanone | 6.50 | 72 | 231545 | 5.5916 | mg/kg | 99 |
| 34) propionitrile | 6.52 | 54 | 319672 | 5.2680 | mg/kg | 98 |
| 35) Ethylacetate | 6.61 | 88 | 22199 | 2.7269 | mg/kg# | 82 |
| 36) methacrylonitrile | 6.72 | 67 | 145018 | 1.0587 | mg/kg | 96 |
| 37) Bromochlorma | 6.74 | 128 | 80959 | 0.5036 | mg/kg# | 89 |
| 38) Tetrahydofur | 6.88 | 42 | 591973 | 4.9669 | mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICV1.D  Vial: 14
Acq On : 25 Mar 2025 20:01  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:36:08 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:35:15 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 298496 | 0.5017 | mg/kg | 100 |
| 40) | 111trichlota | 7.10 | 97 | 257003 | 0.4961 | mg/kg | 98 |
| 42) | Cyclohexane | 7.18 | 56 | 336851 | 0.5434 | mg/kg | 98 |
| 43) | Carbtetraclo | 7.31 | 119 | 229199 | 0.5185 | mg/kg | 98 |
| 44) | 11dicloprope | 7.30 | 110 | 81083 | 0.5162 | mg/kg | 98 |
| 46) | Benzene | 7.55 | 78 | 663101 | 0.5005 | mg/kg | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 251323 | 0.5152 | mg/kg | 97 |
| 48) | TAME | 7.75 | 73 | 170738 | 0.6847 | mg/kg | 96 |
| 49) | trichloroete | 8.36 | 95 | 184454 | 0.5239 | mg/kg | 96 |
| 50) | methylcyclohexane | 8.64 | 83 | 302710 | 0.5654 | mg/kg | 97 |
| 51) | 12dicloropra | 8.62 | 63 | 204101 | 0.4972 | mg/kg | 97 |
| 52) | 23dicl1propene | 8.68 | 75 | 268237 | 0.5212 | mg/kg | 95 |
| 53) | Dibromometha | 8.76 | 93 | 107261 | 0.5189 | mg/kg | 99 |
| 54) | methylmethacrylate | 8.80 | 69 | 109553 | 0.5302 | mg/kg | 98 |
| 55) | 14dioxane | 8.86 | 88 | 101593 | 25.3806 | mg/kg | 96 |
| 56) | Bromodiclrma | 8.96 | 83 | 228190 | 0.5084 | mg/kg | 98 |
| 57) | 2Nitropropane | 9.23 | 43 | 567829 | 5.3509 | mg/kg | 99 |
| 58) | c13dicloproe | 9.55 | 75 | 265379 | 0.5118 | mg/kg | 98 |
| 59) | 4Meth2Pentan | 9.77 | 43 | 1655478 | 5.2921 | mg/kg | 97 |
| 61) | Toluene | 10.00 | 92 | 416959 | 0.5142 | mg/kg | 97 |
| 62) | t13Dicloprop | 10.25 | 75 | 229236 | 0.5079 | mg/kg | 97 |
| 63) | ethylmethacrylate | 10.42 | 69 | 366636 | 1.0695 | mg/kg | 96 |
| 64) | 112Triclotha | 10.50 | 83 | 129014 | 0.5129 | mg/kg | 98 |
| 65) | Tetrachlorte | 10.75 | 166 | 175778 | 0.4843 | mg/kg | 99 |
| 66) | 13Diclorpropa | 10.72 | 76 | 250907 | 0.5079 | mg/kg | 98 |
| 68) | 2Hexanone | 10.86 | 43 | 1211909 | 5.3466 | mg/kg | 97 |
| 69) | Clorodibrmta | 11.03 | 129 | 166591 | 0.5058 | mg/kg | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 154766 | 0.4986 | mg/kg | 97 |
| 71) | Chlorobenzen | 11.88 | 112 | 454991 | 0.4995 | mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 232194 | 0.5198 | mg/kg | 97 |
| 73) | 1112Tetclota | 11.98 | 131 | 160707 | 0.5140 | mg/kg | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 779509 | 0.5173 | mg/kg | 98 |
| 75) | m p-Xylene | 12.20 | 106 | 607261 | 1.0330 | mg/kg | 100 |
| 76) | o-Xylene | 12.75 | 106 | 286208 | 0.5156 | mg/kg | 98 |
| 77) | Styrene | 12.76 | 104 | 457182 | 0.5213 | mg/kg | 98 |
| 78) | Bromoform | 13.00 | 173 | 99234 | 0.4880 | mg/kg | 98 |
| 79) | Isopropylben | 13.28 | 105 | 761783 | 0.5316 | mg/kg | 100 |
| 81) | cyclohexanone | 13.39 | 55 | 462871 | 11.6853 | mg/kg | 97 |
| 83) | Bromobenzene | 13.69 | 156 | 179511 | 0.5063 | mg/kg | 96 |
| 84) | 1122Tetrclta | 13.65 | 83 | 197700 | 0.4934 | mg/kg | 98 |
| 85) | 123Triclproa | 13.72 | 75 | 199969 | 0.5048 | mg/kg | 100 |
| 86) | 14dichloro2butene | 13.73 | 53 | 15811 | 0.4679 | mg/kg | 92 |
| 87) | n-Propylbenz | 13.87 | 91 | 909649 | 0.5196 | mg/kg | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 523438 | 0.5065 | mg/kg | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 636801 | 0.5297 | mg/kg | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 637395 | 0.5314 | mg/kg | 98 |
| 91) | tbutylbenzen | 14.59 | 119 | 542921 | 0.5362 | mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 632804 | 0.5324 | mg/kg | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 817601 | 0.5350 | mg/kg | 99 |
| 94) | 13Diclorbenz | 15.06 | 146 | 333993 | 0.4939 | mg/kg | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 693197 | 0.5385 | mg/kg | 98 |
| 96) | 14dichlorobe | 15.19 | 146 | 350706 | 0.5084 | mg/kg | 99 |
| 97) | 12dichlorobe | 15.73 | 146 | 321839 | 0.5084 | mg/kg | 98 |
| 98) | nButylbenzen | 15.73 | 91 | 645396 | 0.5113 | mg/kg | 98 |
| 99) | 12dibromo3cl | 16.81 | 157 | 34594 | 0.5138 | mg/kg | 98 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 231175 | 0.5144 | mg/kg | 96 |
| 101) | 124Trichlobe | 17.94 | 180 | 193976 | 0.5095 | mg/kg | 100 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICV1.D  Vial: 14
Acq On : 25 Mar 2025 20:01  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:36:08 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:35:15 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 114018 | 0.5132 | mg/kg | 98 |
| 103) Naphthalene | 18.25 | 128 | 444202 | 0.5453 | mg/kg | 97 |
| 104) 123Trichlben | 18.56 | 180 | 165572 | 0.5083 | mg/kg | 97 |

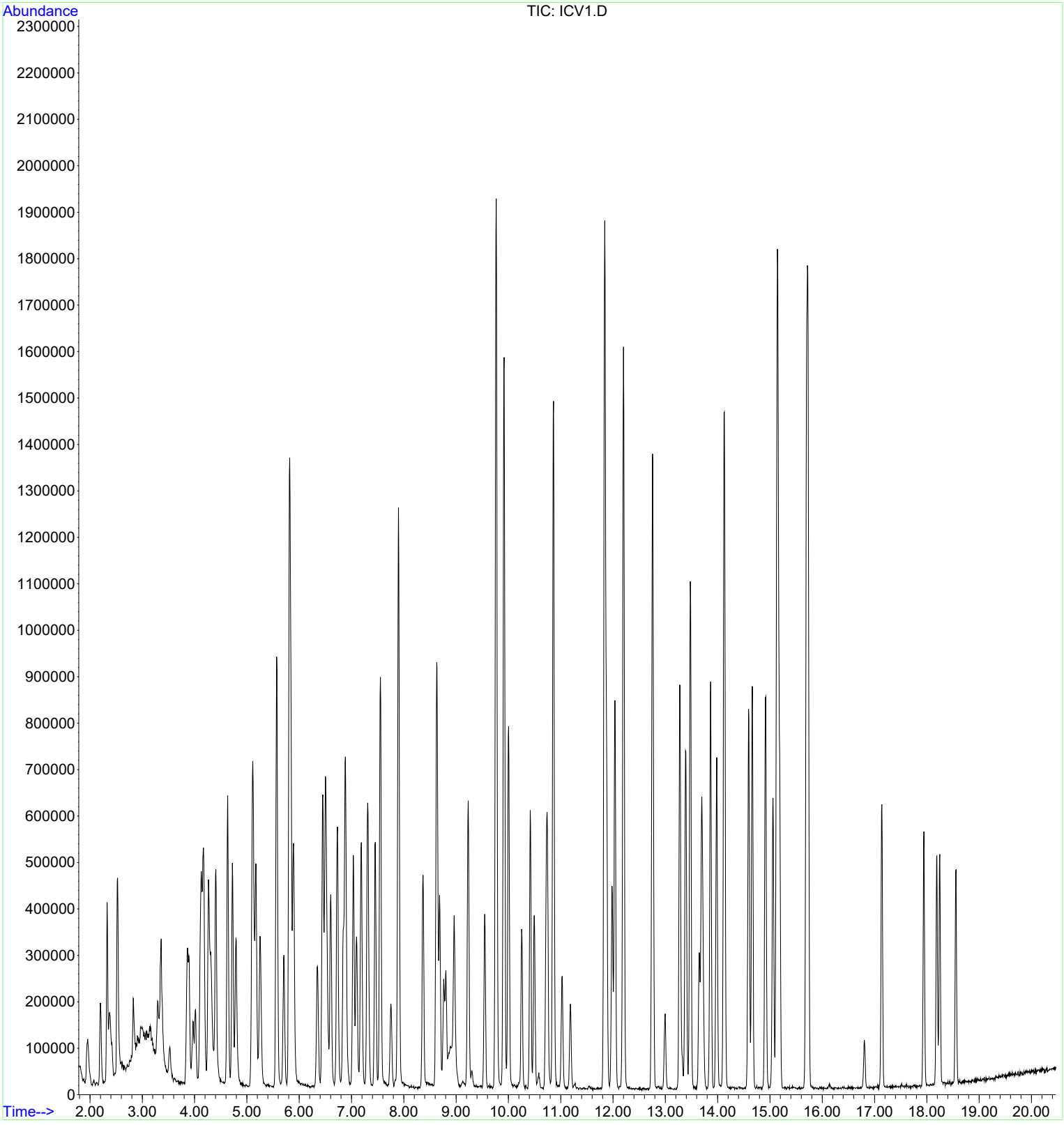
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICV1.D  Vial: 14
Acq On : 25 Mar 2025 20:01  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:36:08 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:35:15 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\MAR2525\ICV2.D  Vial: 15
Acq On : 25 Mar 2025 20:30  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 1.50/15.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Mar 26 07:40:34 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 108 | 0.00 |
| 2 | T | Dichlorodi | 0.2836 | 0.2659 | 6.24 | 100 | -0.01 |
| 3 | PT | Chloromethan | 0.4032 | 0.3510 | 12.95 | 101 | 0.00 |
| 4 | CT | VinylChlorid | 0.3485 | 0.3684 | -5.71 | 104 | -0.01 |
| 5 | T | Bromomethane | 0.1423 | 0.0985 | 30.78# | 97 | 0.00 |
| 6 | T | Chloroethane | 0.0638 | 0.0518 | 18.81 | 97 | -0.01 |
| 7 | T | dichloroflmethane | 0.3862 | 0.3350 | 13.26 | 89 | 0.00 |
| 8 | T | Trichlorofma | 0.4186 | 0.3775 | 9.82 | 101 | -0.01 |
| 9 | T | Ethylether | 0.2391 | 0.2352 | 1.63 | 106 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2855 | 0.2802 | 1.86 | 109 | 0.00 |
| 11 | T | propyleneoxide | 0.0452 | 0.0439 | 2.88 | 109 | 0.00 |
| 12 | T | Acrolein | 0.0553 | 0.0480 | 13.20 | 92 | 0.00 |
| 13 | CT | 11dichlorthe | 0.2337 | 0.2259 | 3.34 | 107 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.2221 | 0.2199 | 0.99 | 108 | 0.00 |
| 15 | T | Acetone | 0.1159 | 0.1072 | 7.51 | 115 | 0.01 |
| 16 | T | Iodomethane | 0.0999 | 0.0935 | 6.41 | 120 | 0.00 |
| 17 | T | Carbon Dislf | 0.6017 | 0.5628 | 6.47 | 107 | -0.01 |
| 18 | T | allylchloride | 0.3692 | 0.3578 | 3.09 | 104 | 0.00 |
| 19 | T | methylacetate | 0.1954 | 0.2300 | -17.71 | 158 | 0.00 |
| 20 | T | Methylchlorid | 0.2805 | 0.2546 | 9.23 | 106 | 0.00 |
| 21 | T | Acrylonitrile | 0.1184 | 0.1093 | 7.69 | 103 | 0.00 |
| 22 | T | t12dichlorte | 0.2498 | 0.2405 | 3.72 | 106 | 0.00 |
| 23 | T | tbutylalcohol | 0.0238 | 0.0210 | 11.76 | 94 | 0.01 |
| 24 | T | MtBE | 0.5430 | 0.5226 | 3.76 | 102 | 0.00 |
| 25 | T | Hexane | 0.4044 | 0.4162 | -2.92 | 109 | 0.00 |
| 26 | PT | 11dichlorota | 0.5161 | 0.4932 | 4.44 | 108 | 0.00 |
| 27 | T | Vinylacetate | 0.4172 | 0.3844 | 7.86 | 95 | 0.00 |
| 28 | T | chloroprene | 0.4004 | 0.4070 | -1.65 | 109 | 0.00 |
| 29 | T | Diisopether | 0.8551 | 0.8137 | 4.84 | 106 | 0.00 |
| 30 | T | ETBE | 0.3843 | 0.3044 | 20.79# | 78 | 0.00 |
| 31 | T | 22dichloropr | 0.3557 | 0.3077 | 13.49 | 98 | 0.00 |
| 32 | T | c12dichlorte | 0.2751 | 0.2634 | 4.25 | 106 | 0.00 |
| 33 | T | 2Butanone | 0.0314 | 0.0314 | 0.00 | 113 | 0.00 |
| 34 | T | propionitrile | 0.0460 | 0.0421 | 8.48 | 105 | 0.00 |
| 35 | T | Ethylacetate | 0.0062 | 0.0060# | 3.23 | 111 | 0.00 |
| 36 | T | methacrylonitrile | 0.1038 | 0.1033 | 0.48 | 112 | 0.00 |
| 37 | T | Bromochlorma | 0.1218 | 0.1111 | 8.78 | 103 | 0.00 |
| 38 | T | Tetrahydofur | 0.0903 | 0.0797 | 11.74 | 102 | 0.00 |
| 39 | CT | Chloroform | 0.4508 | 0.4304 | 4.53 | 108 | 0.00 |
| 40 | T | 111trichlota | 0.3926 | 0.3821 | 2.67 | 108 | 0.00 |
| 41 | S | SURRDibrflma | 0.2694 | 0.2666 | 1.04 | 110 | 0.00 |
| 42 | T | Cyclohexane | 0.4697 | 0.4812 | -2.45 | 110 | 0.00 |
| 43 | T | Carbtetraclo | 0.3349 | 0.3396 | -1.40 | 110 | 0.00 |
| 44 | T | 11dicloprope | 0.1190 | 0.1192 | -0.17 | 110 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0644 | 0.0632 | 1.86 | 109 | 0.00 |
| 46 | T | Benzene | 1.0039 | 0.9596 | 4.41 | 107 | 0.00 |
| 47 | T | 12dichlorota | 0.3696 | 0.3549 | 3.98 | 105 | 0.00 |
| 48 | T | TAME | 0.2100 | 0.1669 | 20.52# | 76 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.2668 | 0.2639 | 1.09 | 110 | 0.00 |
| 50 | T | methylcyclohexane | 0.4057 | 0.4361 | -7.49 | 112 | 0.00 |
| 51 | CT | 12dicloropra | 0.3110 | 0.2955 | 4.98 | 107 | 0.00 |
| 52 | T | 23dicl1propene | 0.3900 | 0.3915 | -0.38 | 106 | 0.00 |
| 53 | T | Dibromometha | 0.1566 | 0.1558 | 0.51 | 108 | 0.00 |
| 54 | T | methylmethacrylate | 0.1566 | 0.1602 | -2.30 | 107 | 0.00 |
| 55 | T | 14dioxane | 0.0030 | 0.0031# | -3.33 | 114 | 0.00 |
| 56 | T | Bromodiclrma | 0.3401 | 0.3358 | 1.26 | 106 | 0.00 |
| 57 | T | 2Nitropropane | 0.0804 | 0.0807 | -0.37 | 103 | 0.00 |
| 58 | T | c13dicloproe | 0.3929 | 0.3928 | 0.03 | 109 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.2370 | 0.2182 | 7.93 | 101 | 0.00 |
| 60 | S | SURRd8Tolule | 0.9864 | 0.9785 | 0.80 | 107 | 0.00 |
| 61 | CT | Toluene | 0.6144 | 0.6032 | 1.82 | 107 | 0.00 |
| 62 | T | t13Dicloprop | 0.3420 | 0.3358 | 1.81 | 105 | 0.00 |
| 63 | T | ethylmethacrylate | 0.2598 | 0.2751 | -5.89 | 108 | 0.00 |
| 64 | T | 112Triclotha | 0.1906 | 0.1843 | 3.31 | 104 | 0.00 |
| 65 | T | Tetrachlorte | 0.2750 | 0.2584 | 6.04 | 108 | 0.00 |
| 66 | T | 13Diclorpropa | 0.3743 | 0.3610 | 3.55 | 105 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 108 | 0.00 |
| 68 | T | 2Hexanone | 0.2241 | 0.2106 | 6.02 | 104 | 0.00 |
| 69 | T | Clorodibrmta | 0.3255 | 0.3295 | -1.23 | 107 | 0.00 |
| 70 | T | 12Dibrometha | 0.3068 | 0.2968 | 3.26 | 105 | 0.00 |
| 71 | PT | Chlorobenzen | 0.9004 | 0.8688 | 3.51 | 106 | 0.00 |
| 72 | T | 1Clhexane | 0.4415 | 0.4403 | 0.27 | 110 | 0.00 |
| 73 | T | 1112Tetclota | 0.3091 | 0.3072 | 0.61 | 106 | 0.00 |
| 74 | CT | Ethylbenzene | 1.4895 | 1.4985 | -0.60 | 107 | 0.00 |
| 75 | T | m p-Xylene | 0.5811 | 0.5774 | 0.64 | 107 | 0.00 |
| 76 | T | o-Xylene | 0.5487 | 0.5587 | -1.82 | 107 | 0.00 |
| 77 | T | Styrene | 0.8669 | 0.9036 | -4.23 | 106 | 0.00 |
| 78 | PT | Bromoform | 0.2010 | 0.2059 | -2.44 | 110 | 0.00 |
| 79 | T | Isopropylben | 1.4165 | 1.4642 | -3.37 | 107 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 105 | 0.00 |
| 81 | T | cyclohexanone | 0.0765 | 0.0815 | -6.54 | 117 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.9612 | 1.0038 | -4.43 | 108 | 0.00 |
| 83 | T | Bromobenzene | 0.6849 | 0.6761 | 1.28 | 105 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.7740 | 0.7180 | 7.24 | 96 | 0.00 |
| 85 | T | 123Triclproa | 0.7651 | 0.7430 | 2.89 | 103 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0653 | 0.0699 | -7.04 | 113 | 0.00 |
| 87 | T | n-Propylbenz | 3.3812 | 3.5087 | -3.77 | 107 | 0.00 |
| 88 | T | 2chlorotolue | 1.9962 | 2.0251 | -1.45 | 107 | 0.00 |
| 89 | T | 4chlorotolue | 2.3219 | 2.3570 | -1.51 | 105 | 0.00 |
| 90 | T | 135Trimebenz | 2.3169 | 2.4595 | -6.15 | 106 | 0.00 |
| 91 | T | tbutylbenzen | 1.9556 | 2.0744 | -6.07 | 106 | 0.00 |
| 92 | T | 124Trimetben | 2.2956 | 2.4238 | -5.58 | 105 | 0.00 |
| 93 | T | sbutylbenzen | 2.9515 | 3.0921 | -4.76 | 105 | 0.00 |
| 94 | T | 13Diclorbenz | 1.3063 | 1.2689 | 2.86 | 104 | 0.00 |
| 95 | T | pIsopropylto | 2.4866 | 2.6461 | -6.41 | 105 | 0.00 |
| 96 | T | 14dichlorobe | 1.3324 | 1.2747 | 4.33 | 100 | 0.00 |
| 97 | T | 12dichlorobe | 1.2228 | 1.1566 | 5.41 | 100 | 0.00 |
| 98 | T | nButylbenzen | 2.4380 | 2.4585 | -0.84 | 103 | 0.00 |
| 99 | T | 12dibromo3cl | 0.1301 | 0.1232 | 5.30 | 94 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.8681 | 0.8607 | 0.85 | 101 | 0.00 |
| 101 | T | 124Trichlobe | 0.7354 | 0.7036 | 4.32 | 97 | 0.00 |
| 102 | T | Hexachlorobu | 0.4292 | 0.4125 | 3.89 | 99 | 0.00 |
| 103 | T | Naphthalene | 1.5734 | 1.5324 | 2.61 | 95 | 0.00 |
| 104 | T | 123Trichlben | 0.6291 | 0.5912 | 6.02 | 97 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Fri Mar 28 13:10:14 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\MAR2525\ICV2.D  Vial: 15
Acq On : 25 Mar 2025 20:30  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 1.50/15.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Mar 26 07:40:34 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 108 | 0.00 |
| 2 | T | Dichlorodi | 1.5000 | 1.4062 | 6.25 | 100 | -0.01 |
| 3 | PT | Chloromethan | 1.5000 | 1.3059 | 12.94 | 101 | 0.00 |
| 4 | CT | VinylChlorid | 1.5000 | 1.5856 | -5.71 | 104 | -0.01 |
| 5 | T | Bromomethane | 1.5000 | 1.3513 | 9.91 | 97 | 0.00 |
| 6 | T | Chloroethane | 1.5000 | 1.2185 | 18.77 | 97 | -0.01 |
| 7 | T | dichloroflmethane | 1.5000 | 1.2386 | 17.43 | 89 | 0.00 |
| 8 | T | Trichlorofma | 1.5000 | 1.3527 | 9.82 | 101 | -0.01 |
| 9 | T | Ethylether | 1.5000 | 1.4759 | 1.61 | 106 | 0.00 |
| 10 | T | dichlorotfluoroethan | 1.5000 | 1.4721 | 1.86 | 109 | 0.00 |
| 11 | T | propyleneoxide | 15.0000 | 14.5625 | 2.92 | 109 | 0.00 |
| 12 | T | Acrolein | 7.5000 | 6.5093 | 13.21 | 92 | 0.00 |
| 13 | CT | 11dichlorthe | 1.5000 | 1.4498 | 3.35 | 107 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 3.0000 | 2.9707 | 0.98 | 108 | 0.00 |
| 15 | T | Acetone | 15.0000 | 13.8737 | 7.51 | 115 | 0.01 |
| 16 | T | Iodomethane | 3.0000 | 3.2564 | -8.55 | 120 | 0.00 |
| 17 | T | Carbon Dislf | 3.0000 | 2.8059 | 6.47 | 107 | -0.01 |
| 18 | T | allylchloride | 3.0000 | 2.9076 | 3.08 | 104 | 0.00 |
| 19 | T | methylacetate | 1.5000 | 1.7657 | -17.71 | 158 | 0.00 |
| 20 | T | Methylchlorid | 1.5000 | 1.3615 | 9.23 | 106 | 0.00 |
| 21 | T | Acrylonitrile | 7.5000 | 6.9180 | 7.76 | 103 | 0.00 |
| 22 | T | t12dichlorte | 1.5000 | 1.4440 | 3.73 | 106 | 0.00 |
| 23 | T | tbutylalcohol | 75.0000 | 66.2019 | 11.73 | 94 | 0.01 |
| 24 | T | MtBE | 1.5000 | 1.4436 | 3.76 | 102 | 0.00 |
| 25 | T | Hexane | 3.0000 | 3.0876 | -2.92 | 109 | 0.00 |
| 26 | PT | 11dichlorota | 1.5000 | 1.4333 | 4.45 | 108 | 0.00 |
| 27 | T | Vinylacetate | 15.0000 | 13.8229 | 7.85 | 95 | 0.00 |
| 28 | T | chloroprene | 3.0000 | 3.0498 | -1.66 | 109 | 0.00 |
| 29 | T | Diisopether | 1.5000 | 1.4273 | 4.85 | 106 | 0.00 |
| 30 | T | ETBE | 1.5000 | 1.1943 | 20.38# | 78 | 0.00 |
| 31 | T | 22dichloropr | 1.5000 | 1.2976 | 13.49 | 98 | 0.00 |
| 32 | T | c12dichlorte | 1.5000 | 1.4359 | 4.27 | 106 | 0.00 |
| 33 | T | 2Butanone | 15.0000 | 14.9883 | 0.08 | 113 | 0.00 |
| 34 | T | propionitrile | 15.0000 | 13.7450 | 8.37 | 105 | 0.00 |
| 35 | T | Ethylacetate | 7.5000 | 7.3175 | 2.43 | 111 | 0.00 |
| 36 | T | methacrylonitrile | 3.0000 | 2.9870 | 0.43 | 112 | 0.00 |
| 37 | T | Bromochlorma | 1.5000 | 1.3677 | 8.82 | 103 | 0.00 |
| 38 | T | Tetrahydofur | 15.0000 | 13.2392 | 11.74 | 102 | 0.00 |
| 39 | CT | Chloroform | 1.5000 | 1.4321 | 4.53 | 108 | 0.00 |
| 40 | T | 111trichlota | 1.5000 | 1.4600 | 2.67 | 108 | 0.00 |
| 41 | S | SURRDibrflma | 1.0000 | 0.9896 | 1.04 | 110 | 0.00 |
| 42 | T | Cyclohexane | 1.5000 | 1.5368 | -2.45 | 110 | 0.00 |
| 43 | T | Carbtetraclo | 1.5000 | 1.5212 | -1.41 | 110 | 0.00 |
| 44 | T | 11dicloprope | 1.5000 | 1.5018 | -0.12 | 110 | 0.00 |
| 45 | S | SURR12DCAd4 | 1.0000 | 0.9817 | 1.83 | 109 | 0.00 |
| 46 | T | Benzene | 1.5000 | 1.4339 | 4.41 | 107 | 0.00 |
| 47 | T | 12dichlorota | 1.5000 | 1.4403 | 3.98 | 105 | 0.00 |
| 48 | T | TAME | 1.5000 | 1.2004 | 19.97 | 76 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 1.5000 | 1.4836 | 1.09 | 110 | 0.00 |
| 50 | T | methylcyclohexane | 1.5000 | 1.6122 | -7.48 | 112 | 0.00 |
| 51 | CT | 12dicloropra | 1.5000 | 1.4252 | 4.99 | 107 | 0.00 |
| 52 | T | 23dicl1propene | 1.5000 | 1.5058 | -0.39 | 106 | 0.00 |
| 53 | T | Dibromometha | 1.5000 | 1.4925 | 0.50 | 108 | 0.00 |
| 54 | T | methylmethacrylate | 1.5000 | 1.5349 | -2.33 | 107 | 0.00 |
| 55 | T | 14dioxane | 75.0000 | 76.7315 | -2.31 | 114 | 0.00 |
| 56 | T | Bromodiclrma | 1.5000 | 1.4810 | 1.27 | 106 | 0.00 |
| 57 | T | 2Nitropropane | 15.0000 | 15.0472 | -0.31 | 103 | 0.00 |
| 58 | T | c13dicloproe | 1.5000 | 1.4996 | 0.03 | 109 | 0.00 |
| 59 | T | 4Meth2Pentan | 15.0000 | 13.8070 | 7.95 | 101 | 0.00 |
| 60 | S | SURRd8Tolule | 1.0000 | 0.9920 | 0.80 | 107 | 0.00 |
| 61 | CT | Toluene | 1.5000 | 1.4726 | 1.83 | 107 | 0.00 |
| 62 | T | t13Dicloprop | 1.5000 | 1.4728 | 1.81 | 105 | 0.00 |
| 63 | T | ethylmethacrylate | 3.0000 | 3.1775 | -5.92 | 108 | 0.00 |
| 64 | T | 112Triclotha | 1.5000 | 1.4504 | 3.31 | 104 | 0.00 |
| 65 | T | Tetrachlorte | 1.5000 | 1.4090 | 6.07 | 108 | 0.00 |
| 66 | T | 13Diclorpropa | 1.5000 | 1.4466 | 3.56 | 105 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 108 | 0.00 |
| 68 | T | 2Hexanone | 15.0000 | 14.0985 | 6.01 | 104 | 0.00 |
| 69 | T | Clorodibrmta | 1.5000 | 1.5184 | -1.23 | 107 | 0.00 |
| 70 | T | 12Dibrometha | 1.5000 | 1.4512 | 3.25 | 105 | 0.00 |
| 71 | PT | Chlorobenzen | 1.5000 | 1.4475 | 3.50 | 106 | 0.00 |
| 72 | T | 1Clhexane | 1.5000 | 1.4958 | 0.28 | 110 | 0.00 |
| 73 | T | 1112Tetclota | 1.5000 | 1.4908 | 0.61 | 106 | 0.00 |
| 74 | CT | Ethylbenzene | 1.5000 | 1.5090 | -0.60 | 107 | 0.00 |
| 75 | T | m p-Xylene | 3.0000 | 2.9808 | 0.64 | 107 | 0.00 |
| 76 | T | o-Xylene | 1.5000 | 1.5273 | -1.82 | 107 | 0.00 |
| 77 | T | Styrene | 1.5000 | 1.5636 | -4.24 | 106 | 0.00 |
| 78 | PT | Bromoform | 1.5000 | 1.5368 | -2.45 | 110 | 0.00 |
| 79 | T | Isopropylben | 1.5000 | 1.5505 | -3.37 | 107 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 105 | 0.00 |
| 81 | T | cyclohexanone | 30.0000 | 31.9389 | -6.46 | 117 | 0.00 |
| 82 | S | SURR4BrFBenz | 1.0000 | 1.0442 | -4.42 | 108 | 0.00 |
| 83 | T | Bromobenzene | 1.5000 | 1.4808 | 1.28 | 105 | 0.00 |
| 84 | PT | 1122Tetrclta | 1.5000 | 1.3915 | 7.23 | 96 | 0.00 |
| 85 | T | 123Triclproa | 1.5000 | 1.4568 | 2.88 | 103 | 0.00 |
| 86 | T | 14dichloro2butene | 1.5000 | 1.6055 | -7.03 | 113 | 0.00 |
| 87 | T | n-Propylbenz | 1.5000 | 1.5566 | -3.77 | 107 | 0.00 |
| 88 | T | 2chlorotolue | 1.5000 | 1.5217 | -1.45 | 107 | 0.00 |
| 89 | T | 4chlorotolue | 1.5000 | 1.5227 | -1.51 | 105 | 0.00 |
| 90 | T | 135Trimebenz | 1.5000 | 1.5923 | -6.15 | 106 | 0.00 |
| 91 | T | tbutylbenzen | 1.5000 | 1.5911 | -6.07 | 106 | 0.00 |
| 92 | T | 124Trimetben | 1.5000 | 1.5838 | -5.59 | 105 | 0.00 |
| 93 | T | sbutylbenzen | 1.5000 | 1.5714 | -4.76 | 105 | 0.00 |
| 94 | T | 13Diclorbenz | 1.5000 | 1.4570 | 2.87 | 104 | 0.00 |
| 95 | T | pIsopropylto | 1.5000 | 1.5963 | -6.42 | 105 | 0.00 |
| 96 | T | 14dichlorobe | 1.5000 | 1.4351 | 4.33 | 100 | 0.00 |
| 97 | T | 12dichlorobe | 1.5000 | 1.4188 | 5.41 | 100 | 0.00 |
| 98 | T | nButylbenzen | 1.5000 | 1.5126 | -0.84 | 103 | 0.00 |
| 99 | T | 12dibromo3cl | 1.5000 | 1.4205 | 5.30 | 94 | 0.00 |
| 100 | T | 135Trichlorobenzene | 1.5000 | 1.4872 | 0.85 | 101 | 0.00 |
| 101 | T | 124Trichlobe | 1.5000 | 1.4350 | 4.33 | 97 | 0.00 |
| 102 | T | Hexachlorobu | 1.5000 | 1.4418 | 3.88 | 99 | 0.00 |
| 103 | T | Naphthalene | 1.5000 | 1.4609 | 2.61 | 95 | 0.00 |
| 104 | T | 123Trichlben | 1.5000 | 1.4095 | 6.03 | 97 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Fri Mar 28 13:09:50 2025

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICV2.D  Vial: 15
Acq On : 25 Mar 2025 20:30  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 1.50/15.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:40:34 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:40:06 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1388060 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 1058182 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 530276 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 370045 | 0.990 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 87784 | 0.982 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1358271 | 0.992 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 532272 | 1.044 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 104 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.95 | 85 | 553654 | 1.4062 | mg/kg | 100 |
| 3) Chloromethan | 2.20 | 50 | 730856 | 1.3059 | mg/kg | 97 |
| 4) VinylChlorid | 2.36 | 62 | 767054 | 1.5856 | mg/kg | 99 |
| 5) Bromomethane | 2.83 | 94 | 205174 | 1.3513 | mg/kg | 86 |
| 6) Chloroethane | 2.97 | 64 | 107874 | 1.2185 | mg/kg | 99 |
| 7) dichloroflmethane | 3.29 | 67 | 697490 | 1.2386 | mg/kg | 97 |
| 8) Trichlorofma | 3.34 | 101 | 786047 | 1.3527 | mg/kg | 97 |
| 9) Ethylether | 3.90 | 59 | 489780 | 1.4759 | mg/kg | 97 |
| 10) dichlorotfluoroethan | 3.85 | 67 | 583445 | 1.4721 | mg/kg | 99 |
| 11) propyleneoxide | 4.11 | 58 | 913198 | 14.5625 | mg/kg | 98 |
| 12) Acrolein | 4.02 | 56 | 499279 | 6.5093 | mg/kg | 98 |
| 13) 11dichlorthe | 4.11 | 96 | 470289 | 1.4498 | mg/kg | 98 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 915775 | 2.9707 | mg/kg | 99 |
| 15) Acetone | 4.29 | 43 | 2231439 | 13.8737 | mg/kg | 97 |
| 16) Iodomethane | 4.30 | 127 | 389335 | 3.2564 | mg/kg | 94 |
| 17) Carbon Dislf | 4.39 | 76 | 2343401 | 2.8059 | mg/kg | 100 |
| 18) allylchloride | 4.63 | 41 | 1489898 | 2.9076 | mg/kg | 98 |
| 19) methylacetate | 4.73 | 74 | 478895 | 1.7657 | mg/kg | 97 |
| 20) Methylchlorid | 4.79 | 84 | 530039 | 1.3615 | mg/kg | 93 |
| 21) Acrylonitrile | 5.12 | 53 | 1137345 | 6.9180 | mg/kg | 99 |
| 22) t12dichlorte | 5.17 | 96 | 500645 | 1.4440 | mg/kg | 98 |
| 23) tbutylalcohol | 5.12 | 59 | 2182486 | 66.2019 | mg/kg | 97 |
| 24) MtBE | 5.26 | 73 | 1088030 | 1.4436 | mg/kg | 98 |
| 25) Hexane | 5.56 | 57 | 1733170 | 3.0876 | mg/kg | 99 |
| 26) 11dichlorota | 5.70 | 63 | 1026815 | 1.4333 | mg/kg | 98 |
| 27) Vinylacetate | 5.81 | 43 | 8004548 | 13.8229 | mg/kg | 98 |
| 28) chloroprene | 5.84 | 53 | 1694952 | 3.0498 | mg/kg | 100 |
| 29) Diisopether | 5.89 | 45 | 1694143 | 1.4273 | mg/kg | 99 |
| 30) ETBE | 6.35 | 59 | 633704 | 1.1943 | mg/kg | 99 |
| 31) 22dichloropr | 6.45 | 77 | 640703 | 1.2976 | mg/kg | 100 |
| 32) c12dichlorte | 6.44 | 96 | 548398 | 1.4359 | mg/kg | 97 |
| 33) 2Butanone | 6.51 | 72 | 652788 | 14.9883 | mg/kg | 100 |
| 34) propionitrile | 6.53 | 54 | 877235 | 13.7450 | mg/kg | 97 |
| 35) Ethylacetate | 6.60 | 88 | 62654 | 7.3175 | mg/kg# | 84 |
| 36) methacrylonitrile | 6.72 | 67 | 430348 | 2.9870 | mg/kg | 97 |
| 37) Bromochlorma | 6.74 | 128 | 231232 | 1.3677 | mg/kg | 93 |
| 38) Tetrahydofur | 6.88 | 42 | 1659586 | 13.2392 | mg/kg | 96 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICV2.D Vial: 15
Acq On : 25 Mar 2025 20:30 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 1.50/15.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:40:34 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:40:06 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) Chloroform | 6.84 | 83 | 896134 | 1.4321 | mg/kg | 98 |
| 40) 111trichlota | 7.09 | 97 | 795523 | 1.4600 | mg/kg | 97 |
| 42) Cyclohexane | 7.19 | 56 | 1001943 | 1.5368 | mg/kg | 99 |
| 43) Carbtetraclo | 7.31 | 119 | 707169 | 1.5212 | mg/kg | 98 |
| 44) 11dicloprope | 7.30 | 110 | 248101 | 1.5018 | mg/kg | 96 |
| 46) Benzene | 7.55 | 78 | 1998024 | 1.4339 | mg/kg | 98 |
| 47) 12dichlorota | 7.55 | 62 | 738999 | 1.4403 | mg/kg | 98 |
| 48) TAME | 7.75 | 73 | 347600 | 1.2004 | mg/kg | 95 |
| 49) trichloroete | 8.37 | 95 | 549379 | 1.4836 | mg/kg | 99 |
| 50) methylcyclohexane | 8.64 | 83 | 907899 | 1.6122 | mg/kg | 98 |
| 51) 12dicloropra | 8.63 | 63 | 615252 | 1.4252 | mg/kg | 93 |
| 52) 23dicl1propene | 8.68 | 75 | 815096 | 1.5058 | mg/kg | 96 |
| 53) Dibromometha | 8.76 | 93 | 324493 | 1.4925 | mg/kg | 98 |
| 54) methylmethacrylate | 8.81 | 69 | 333539 | 1.5349 | mg/kg | 96 |
| 55) 14dioxane | 8.87 | 88 | 323037 | 76.7315 | mg/kg | 96 |
| 56) Bromodiclrma | 8.96 | 83 | 699197 | 1.4810 | mg/kg | 99 |
| 57) 2Nitropropane | 9.23 | 43 | 1679443 | 15.0472 | mg/kg | 96 |
| 58) c13dicloproe | 9.55 | 75 | 817792 | 1.4996 | mg/kg | 98 |
| 59) 4Meth2Pentan | 9.77 | 43 | 4542644 | 13.8070 | mg/kg | 95 |
| 61) Toluene | 10.00 | 92 | 1255858 | 1.4726 | mg/kg | 98 |
| 62) t13Dicloprop | 10.26 | 75 | 699207 | 1.4728 | mg/kg | 98 |
| 63) ethylmethacrylate | 10.42 | 69 | 1145654 | 3.1775 | mg/kg | 97 |
| 64) 112Triclotha | 10.50 | 83 | 383723 | 1.4504 | mg/kg | 99 |
| 65) Tetrachlorte | 10.75 | 166 | 537931 | 1.4090 | mg/kg | 98 |
| 66) 13Diclorpropa | 10.72 | 76 | 751580 | 1.4466 | mg/kg | 98 |
| 68) 2Hexanone | 10.86 | 43 | 3342686 | 14.0985 | mg/kg | 97 |
| 69) Clorodibrmta | 11.03 | 129 | 523075 | 1.5184 | mg/kg | 97 |
| 70) 12Dibrometha | 11.18 | 107 | 471153 | 1.4512 | mg/kg | 97 |
| 71) Chlorobenzen | 11.88 | 112 | 1379041 | 1.4475 | mg/kg | 98 |
| 72) 1Clhexane | 11.85 | 91 | 698819 | 1.4958 | mg/kg | 95 |
| 73) 1112Tetclota | 11.99 | 131 | 487547 | 1.4908 | mg/kg | 99 |
| 74) Ethylbenzene | 12.04 | 91 | 2378453 | 1.5090 | mg/kg | 100 |
| 75) m p-Xylene | 12.20 | 106 | 1832916 | 2.9808 | mg/kg | 99 |
| 76) o-Xylene | 12.75 | 106 | 886796 | 1.5273 | mg/kg | 95 |
| 77) Styrene | 12.76 | 104 | 1434302 | 1.5636 | mg/kg | 98 |
| 78) Bromoform | 13.00 | 173 | 326854 | 1.5368 | mg/kg | 98 |
| 79) Isopropylben | 13.28 | 105 | 2324080 | 1.5505 | mg/kg | 100 |
| 81) cyclohexanone | 13.39 | 55 | 1295802 | 31.9389 | mg/kg | 97 |
| 83) Bromobenzene | 13.70 | 156 | 537800 | 1.4808 | mg/kg | 97 |
| 84) 1122Tetrclta | 13.65 | 83 | 571129 | 1.3915 | mg/kg | 97 |
| 85) 123Triclproa | 13.71 | 75 | 591022 | 1.4568 | mg/kg | 100 |
| 86) 14dichloro2butene | 13.74 | 53 | 55567 | 1.6055 | mg/kg | 83 |
| 87) n-Propylbenz | 13.87 | 91 | 2790884 | 1.5566 | mg/kg | 100 |
| 88) 2chlorotolue | 13.98 | 91 | 1610773 | 1.5217 | mg/kg | 98 |
| 89) 4chlorotolue | 14.13 | 91 | 1874802 | 1.5227 | mg/kg | 97 |
| 90) 135Trimebenz | 14.12 | 105 | 1956353 | 1.5923 | mg/kg | 100 |
| 91) tbutylbenzen | 14.60 | 119 | 1649988 | 1.5911 | mg/kg | 100 |
| 92) 124Trimetben | 14.66 | 105 | 1927960 | 1.5838 | mg/kg | 100 |
| 93) sbutylbenzen | 14.91 | 105 | 2459478 | 1.5714 | mg/kg | 99 |
| 94) 13Diclorbenz | 15.06 | 146 | 1009277 | 1.4570 | mg/kg | 99 |
| 95) pIsopropylto | 15.13 | 119 | 2104765 | 1.5963 | mg/kg | 100 |
| 96) 14dichlorobe | 15.19 | 146 | 1013921 | 1.4351 | mg/kg | 99 |
| 97) 12dichlorobe | 15.73 | 146 | 919983 | 1.4188 | mg/kg | 98 |
| 98) nButylbenzen | 15.73 | 91 | 1955515 | 1.5126 | mg/kg | 100 |
| 99) 12dibromo3cl | 16.81 | 157 | 97966 | 1.4205 | mg/kg | 92 |
| 100) 135Trichlorobenzene | 17.14 | 180 | 684593 | 1.4872 | mg/kg | 95 |
| 101) 124Trichlobe | 17.94 | 180 | 559631 | 1.4350 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICV2.D  Vial: 15
Acq On : 25 Mar 2025 20:30  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 1.50/15.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:40:34 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:40:06 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 328123 | 1.4418 mg/kg | 97 |
| 103) Naphthalene | 18.25 | 128 | 1218853 | 1.4609 mg/kg | 97 |
| 104) 123Trichlben | 18.56 | 180 | 470220 | 1.4095 mg/kg | 98 |

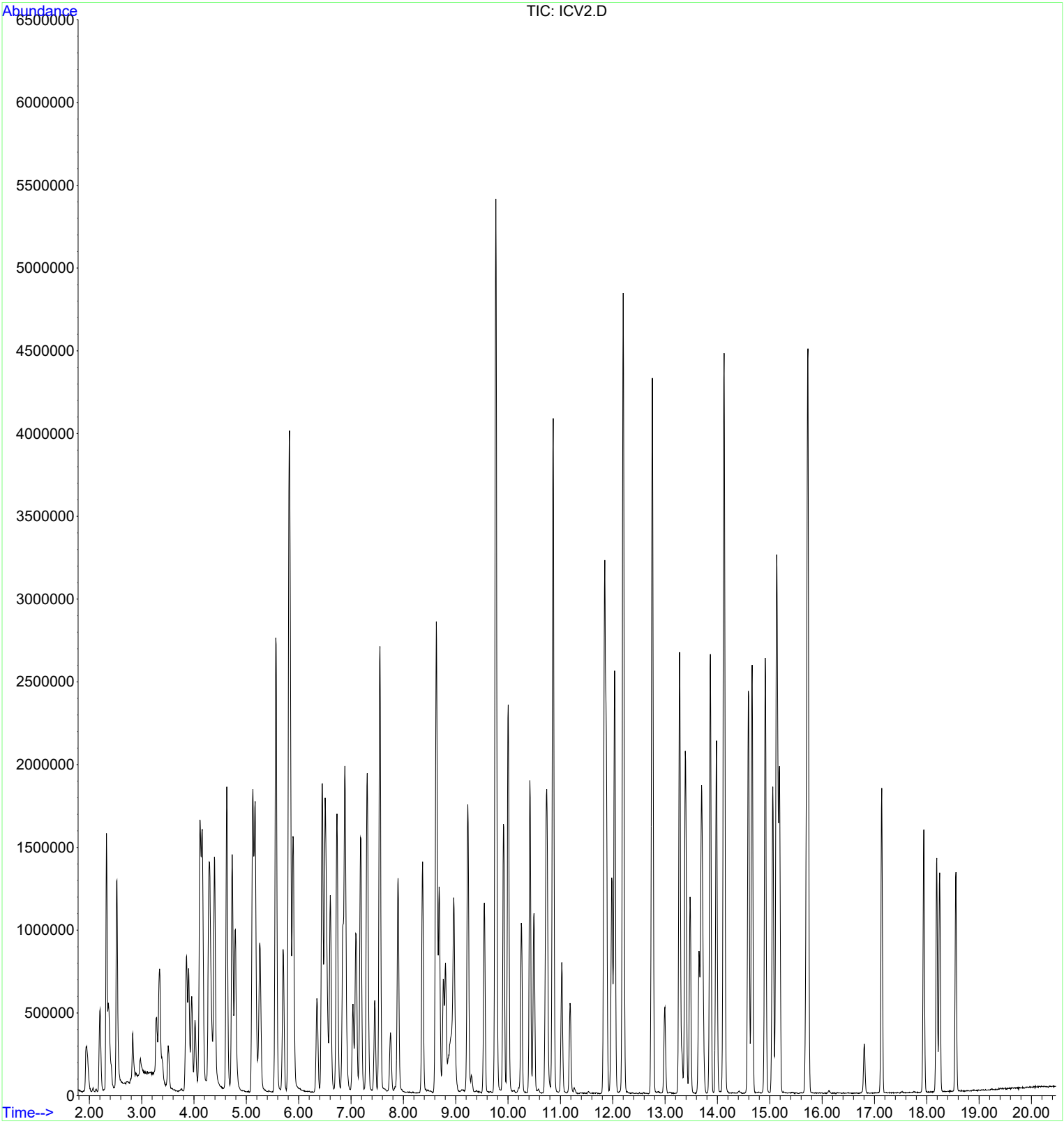
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICV2.D  Vial: 15
Acq On : 25 Mar 2025 20:30  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 1.50/15.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:40:34 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:40:06 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICB1.D  Vial: 19
Acq On : 25 Mar 2025 22:21  Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK  Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:41:44 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:41:00 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1359246 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 1016557 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 486104 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 364054 | 0.994 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 84975 | 0.970 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 97 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1329099 | 0.991 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 482787 | 1.033 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 103 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.19 | 50 | 7065 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.83 | 94 | 12454 | N.D. | | |
| 6) Chloroethane | 2.98 | 64 | 2438 | N.D. | | |
| 7) dichloroflmethane | 3.25 | 67 | 1003 | Below Cal # | | 49 |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 4.10 | 58 | 6187 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.27 | 43 | 16218 | N.D. | | |
| 16) Iodomethane | 4.32 | 127 | 23209 | 0.2778 | mg/kg | 90 |
| 17) Carbon Dislf | 4.40 | 76 | 5883 | N.D. | | |
| 18) allylchloride | 4.63 | 41 | 1299 | N.D. | | |
| 19) methylacetate | 4.72 | 74 | 1339 | N.D. | | |
| 20) Methylchlorid | 4.78 | 84 | 2667 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 0.00 | 59 | 0 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 5.81 | 43 | 1194 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.49 | 77 | 1718 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.89 | 42 | 4378 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICB1.D Vial: 19
Acq On : 25 Mar 2025 22:21 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:41:44 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:41:00 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 7.56 | 78 | 1010 | N.D. | |
| 47) | 12dichlorota | 7.56 | 62 | 1219 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 9.24 | 43 | 1640 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 9.76 | 43 | 1518 | N.D. | |
| 61) | Toluene | 0.00 | 92 | 0 | N.D. | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 10.86 | 43 | 4393 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 11.85 | 91 | 2638 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 12.02 | 91 | 1393 | N.D. | |
| 75) | m p-Xylene | 12.19 | 106 | 1119 | N.D. | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | |
| 77) | Styrene | 12.76 | 104 | 1557 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | |
| 81) | cyclohexanone | 13.39 | 55 | 1954 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 13.98 | 91 | 1004 | N.D. | |
| 88) | 2chlorotolue | 13.99 | 91 | 1360 | N.D. | |
| 89) | 4chlorotolue | 14.13 | 91 | 1888 | N.D. | |
| 90) | 135Trimebenz | 0.00 | 105 | 0 | N.D. | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | |
| 92) | 124Trimetben | 14.66 | 105 | 1737 | N.D. | |
| 93) | sbutylbenzen | 14.90 | 105 | 1528 | N.D. | |
| 94) | 13Diclorbenz | 15.07 | 146 | 1254 | N.D. | |
| 95) | pIsopropylto | 15.13 | 119 | 1702 | N.D. | |
| 96) | 14dichlorobe | 15.19 | 146 | 1510 | N.D. | |
| 97) | 12dichlorobe | 15.73 | 146 | 1013 | N.D. | |
| 98) | nButylbenzen | 15.73 | 91 | 4232 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 1332 | N.D. | |
| 101) | 124Trichlobe | 17.93 | 180 | 1849 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICB1.D  Vial: 19
Acq On : 25 Mar 2025 22:21  Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK  Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:41:44 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:41:00 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 0.00 | 225 | 0 | N.D. | |
| 103) | Naphthalene | 18.24 | 128 | 4679 | N.D. | |
| 104) | 123Trichlben | 18.56 | 180 | 1082 | N.D. | |

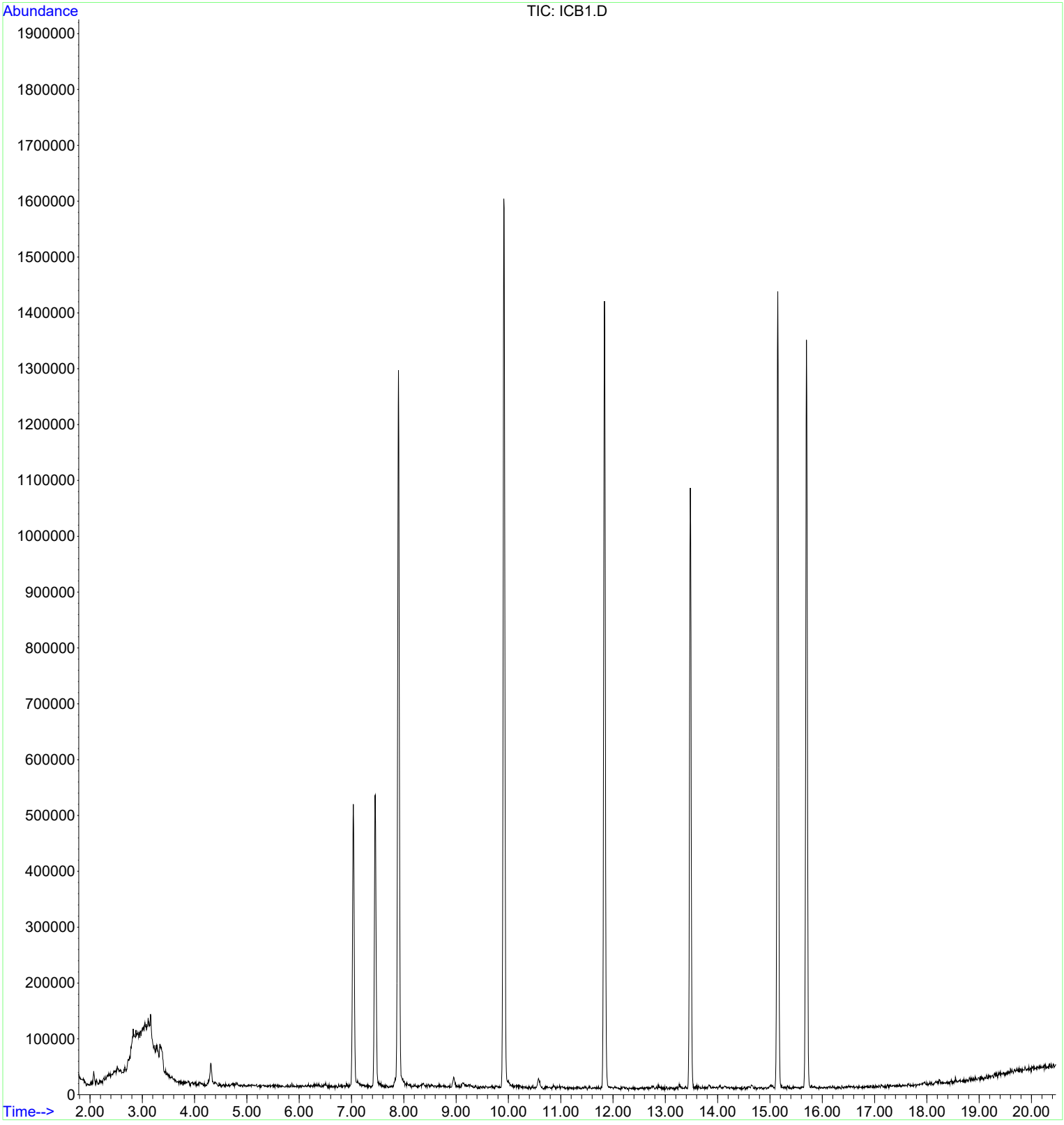
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR2525\ICB1.D  Vial: 19
Acq On : 25 Mar 2025 22:21  Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK  Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 26 07:41:44 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Wed Mar 26 07:41:00 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Response Factor Report VMS4

Method Path : C:\INSTARCH\METHODS\
Method File : LS041025.M
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response Via : Initial Calibration

DGS 04/17/2025

Calibration Files mg/kg
1 0.001/0.010 =LLSCAL1.D 2 0.002/0.020 =LLSCAL2.D 3 0.005/0.050 =LLSCAL3.D
4 0.010/0.100 =LLSCAL4.D 5 0.020/0.200 =LLSCAL5.D 6 0.030/0.300 =LLSCAL6.D
7 0.040/0.400 =LLSCAL7.D 8 0.080/0.800 =LLSCAL8.D

| | | Compound | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | FLUOROBENZENE**ISTD** | ----------ISTD---------- | | | | | | | | | |
| 2) | T | Dichlorodi | 0.312 | 0.306 | 0.315 | 0.322 | 0.311 | 0.309 | 0.295 | 0.308 | | 3.57 |
| 3) | PT | Chloromethan | 0.372 | 0.353 | 0.339 | 0.311 | 0.311 | 0.312 | 0.303 | 0.326 | | 7.84 |
| 4) | CT | VinylChlorid | 0.354 | 0.325 | 0.344 | 0.332 | 0.341 | 0.333 | 0.326 | 0.335 | | 3.17 |
| 5) | T | Bromomethane | 0.280 | 0.265 | 0.220 | 0.211 | 0.208 | 0.213 | 0.214 | 0.228 | | 12.15 |
| 6) | T | Chloroethane | 0.131 | 0.178 | 0.221 | 0.205 | 0.202 | 0.201 | 0.195 | 0.191 | | 14.13 |
| 7) | T | dichloroflmetha | 0.490 | 0.472 | 0.439 | 0.430 | 0.418 | 0.420 | 0.402 | 0.434 | | 7.53 |
| 8) | T | Trichlorofma | 0.421 | 0.433 | 0.437 | 0.435 | 0.429 | 0.432 | 0.409 | 0.425 | | 3.26 |
| 9) | T | Ethylether | 0.202 | 0.196 | 0.196 | 0.187 | 0.186 | 0.182 | 0.180 | 0.188 | | 4.87 |
| 10) | T | dichlorotfluoro | 0.272 | 0.292 | 0.280 | 0.255 | 0.259 | 0.256 | 0.246 | 0.263 | | 6.19 |
| 11) | T | propyleneoxide | 0.037 | 0.033 | 0.034 | 0.032 | 0.034 | 0.034 | 0.035 | 0.034 | | 3.99 |
| 12) | T | Acrolein | 0.047 | 0.042 | 0.035 | 0.036 | 0.037 | 0.036 | 0.034 | 0.038 | | 12.20 |
| 13) | CT | 11dichlorthe | 0.248 | 0.245 | 0.236 | 0.227 | 0.229 | 0.230 | 0.222 | 0.233 | | 4.09 |
| 14) | T | Trichlorotfluor | 0.200 | 0.214 | 0.217 | 0.218 | 0.218 | 0.215 | 0.209 | 0.212 | | 3.09 |
| 15) | T | Acetone | 0.098 | 0.080 | 0.085 | 0.076 | 0.078 | 0.075 | 0.067 | 0.078 | | 13.08 |
| 16) | T | Iodomethane | 0.252 | 0.229 | 0.228 | 0.230 | 0.255 | 0.272 | 0.272 | 0.252 | | 8.47 |
| 17) | T | Carbon Dislf | 0.622 | 0.609 | 0.610 | 0.594 | 0.599 | 0.603 | 0.578 | 0.599 | | 2.56 |
| 18) | T | allylchloride | 0.373 | 0.370 | 0.365 | 0.338 | 0.340 | 0.341 | 0.335 | 0.349 | | 4.77 |
| 19) | T | methylacetate | 0.088 | 0.085 | 0.072 | 0.074 | 0.076 | 0.076 | 0.075 | 0.078 | | 7.12 |
| 20) | T | Methylchlorid | 0.438 | 0.329 | 0.311 | 0.292 | 0.267 | 0.265 | 0.260 | ----- | | |
| | | | 0.252 | | | | | | | | | |
| | | | | | | | | | Q | A= -0.003 R=1.000 | | |
| | | | | | | | | | | B= 0.262 | | |
| | | | | | | | | | | C= 0.010 | | |
| 21) | T | Acrylonitrile | 0.064 | 0.061 | 0.059 | 0.057 | 0.057 | 0.055 | 0.054 | 0.058 | | 5.96 |
| | | | 0.055 | | | | | | | | | |
| 22) | T | t12dichlorte | 0.278 | 0.268 | 0.281 | 0.265 | 0.261 | 0.259 | 0.249 | 0.264 | | 4.23 |
| | | | 0.253 | | | | | | | | | |
| 23) | T | tbutylalcohol | 0.014 | 0.013 | 0.013 | 0.012 | 0.013 | 0.013 | 0.013 | 0.013 | | 4.94 |
| | | | 0.014 | | | | | | | | | |
| 24) | T | MtBE | 0.373 | 0.368 | 0.366 | 0.347 | 0.375 | 0.368 | 0.384 | 0.375 | | 5.29 |
| | | | 0.416 | | | | | | | | | |
| 25) | T | Hexane | 0.323 | 0.309 | 0.307 | 0.321 | 0.306 | 0.297 | 0.284 | 0.304 | | 4.94 |
| | | | 0.283 | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 26) | PT | 11dichlorota | 0.487 | 0.497 | 0.482 | 0.450 | 0.453 | 0.457 | 0.440 | 0.463 | 4.79 |
| | | | 0.441 | | | | | | | | |
| 27) | T | Vinylacetate | 0.421 | 0.465 | 0.465 | 0.435 | 0.433 | 0.377 | 0.398 | 0.416 | 10.95 |
| | | | 0.331 | | | | | | | | |
| 28) | T | chloroprene | 0.345 | 0.396 | 0.379 | 0.372 | 0.376 | 0.379 | 0.369 | 0.373 | 3.82 |
| | | | 0.369 | | | | | | | | |
| 29) | T | Diisopether | 0.749 | 0.754 | 0.747 | 0.746 | 0.751 | 0.750 | 0.737 | 0.745 | 1.11 |
| | | | 0.729 | | | | | | | | |
| 30) | T | ETBE | 0.150 | 0.096 | 0.117 | 0.105 | 0.127 | 0.123 | 0.145 | ----- | |
| | | | 0.188 | | | | | | | | |
| | | | | | | | | Q | A= | 0.023 | R=0.999 |
| | | | | | | | | | B= | 0.094 | |
| | | | | | | | | | C= | 0.002 | |
| 31) | T | 22dichloropr | 0.349 | 0.330 | 0.319 | 0.313 | 0.319 | 0.325 | 0.322 | 0.327 | 3.69 |
| | | | 0.340 | | | | | | | | |
| 32) | T | c12dichlorte | 0.293 | 0.291 | 0.304 | 0.279 | 0.281 | 0.281 | 0.275 | 0.285 | 3.54 |
| | | | 0.275 | | | | | | | | |
| 33) | T | 2Butanone | 0.026 | 0.025 | 0.025 | 0.024 | 0.024 | 0.023 | 0.022 | 0.024 | 5.24 |
| | | | 0.023 | | | | | | | | |
| 34) | T | propionitrile | 0.029 | 0.025 | 0.025 | 0.023 | 0.024 | 0.023 | 0.023 | 0.024 | 8.32 |
| | | | 0.023 | | | | | | | | |
| 35) | T | Ethylacetate | 0.005 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004# | 3.30 |
| | | | 0.004 | | | | | | | | |
| 36) | T | methacrylonitri | 0.070 | 0.090 | 0.079 | 0.073 | 0.077 | 0.075 | 0.074 | 0.077 | 8.01 |
| | | | 0.074 | | | | | | | | |
| 37) | T | Bromochlorma | 0.133 | 0.137 | 0.138 | 0.127 | 0.128 | 0.125 | 0.124 | 0.129 | 5.53 |
| | | | 0.117 | | | | | | | | |
| 38) | T | Tetrahydofur | 0.054 | 0.056 | 0.053 | 0.051 | 0.053 | 0.052 | 0.050 | 0.052 | 3.93 |
| | | | 0.050 | | | | | | | | |
| 39) | CT | Chloroform | 0.523 | 0.516 | 0.496 | 0.483 | 0.479 | 0.482 | 0.469 | 0.489 | 4.31 |
| | | | 0.466 | | | | | | | | |
| 40) | T | 111trichlota | 0.449 | 0.445 | 0.449 | 0.432 | 0.433 | 0.428 | 0.416 | 0.434 | 3.07 |
| | | | 0.417 | | | | | | | | |
| 41) | S | SURRDibrflma | 0.271 | 0.271 | 0.272 | 0.273 | 0.267 | 0.263 | 0.272 | 0.270 | 1.24 |
| | | | 0.270 | | | | | | | | |
| 42) | T | Cyclohexane | 0.359 | 0.374 | 0.379 | 0.391 | 0.388 | 0.382 | 0.372 | 0.376 | 2.83 |
| | | | 0.368 | | | | | | | | |
| 43) | T | Carbtetraclo | 0.365 | 0.370 | 0.385 | 0.380 | 0.380 | 0.380 | 0.371 | 0.375 | 1.91 |
| | | | 0.369 | | | | | | | | |
| 44) | T | 11dicloprope | 0.144 | 0.128 | 0.131 | 0.126 | 0.124 | 0.122 | 0.119 | 0.127 | 6.37 |
| | | | 0.121 | | | | | | | | |
| 45) | S | SURR12DCAd4 | 0.049 | 0.051 | 0.053 | 0.052 | 0.050 | 0.051 | 0.050 | 0.051 | 2.34 |
| | | | 0.052 | | | | | | | | |
| 46) | T | Benzene | 1.085 | 1.060 | 1.044 | 0.989 | 0.988 | 0.993 | 0.970 | 1.010 | 4.63 |
| | | | 0.954 | | | | | | | | |
| 47) | T | 12dichlorota | 0.357 | 0.357 | 0.359 | 0.351 | 0.343 | 0.343 | 0.337 | 0.347 | 3.16 |
| | | | 0.328 | | | | | | | | |
| 48) | T | TAME | 0.029 | 0.043 | 0.047 | 0.043 | 0.055 | 0.055 | 0.063 | ----- | |
| | | | 0.099 | | | | | | | | |
| | | | | | | | | Q | A= | 0.017 | R=0.999 |
| | | | | | | | | | B= | 0.029 | |
| | | | | | | | | | C= | 0.002 | |
| 49) | T | trichloroete | 0.289 | 0.291 | 0.282 | 0.281 | 0.282 | 0.277 | 0.268 | 0.280 | 2.86 |
| | | | 0.271 | | | | | | | | |
| 50) | T | methylcyclohexa | 0.386 | 0.416 | 0.423 | 0.428 | 0.425 | 0.416 | 0.406 | 0.413 | 3.30 |
| | | | 0.406 | | | | | | | | |
| 51) | CT | 12dicloropra | 0.254 | 0.271 | 0.276 | 0.265 | 0.266 | 0.266 | 0.265 | 0.266 | 2.34 |
| | | | 0.263 | | | | | | | | |
| 52) | T | 23dicl1propene | 0.411 | 0.438 | 0.420 | 0.417 | 0.419 | 0.428 | 0.404 | 0.418 | 2.70 |
| | | | 0.406 | | | | | | | | |
| 53) | T | Dibromometha | 0.164 | 0.161 | 0.162 | 0.162 | 0.157 | 0.156 | 0.155 | 0.159 | 2.44 |
| | | | 0.153 | | | | | | | | |
| 54) | T | methylmethacryl | 0.132 | 0.146 | 0.147 | 0.138 | 0.144 | 0.138 | 0.136 | 0.140 | 3.87 |
| | | | 0.139 | | | | | | | | |
| 55) | T | 14dioxane | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002# | 6.21 |
| | | | 0.002 | | | | | | | | |
| 56) | T | Bromodiclrma | 0.420 | 0.400 | 0.384 | 0.379 | 0.368 | 0.369 | 0.367 | 0.382 | 5.03 |
| | | | 0.367 | | | | | | | | |
| 57) | T | 2Nitropropane | 0.065 | 0.066 | 0.065 | 0.063 | 0.063 | 0.062 | 0.061 | 0.063 | 2.82 |
| | | | 0.062 | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 58) | T | c13dicloproe | 0.450 | 0.413 | 0.429 | 0.413 | 0.413 | 0.414 | 0.409 | 0.418 | 3.52 |
| | | | 0.404 | | | | | | | | |
| 59) | T | 4Meth2Pentan | 0.196 | 0.181 | 0.184 | 0.183 | 0.182 | 0.175 | 0.170 | 0.179 | 5.55 |
| | | | 0.164 | | | | | | | | |
| 60) | S | SURRd8Tolule | 1.032 | 1.028 | 1.040 | 1.021 | 1.016 | 1.011 | 1.011 | 1.020 | 1.27 |
| | | | 1.001 | | | | | | | | |
| 61) | CT | Toluene | 0.732 | 0.692 | 0.692 | 0.669 | 0.641 | 0.643 | 0.621 | 0.664 | 5.99 |
| | | | 0.618 | | | | | | | | |
| 62) | T | t13Dicloprop | 0.352 | 0.339 | 0.357 | 0.338 | 0.343 | 0.345 | 0.346 | 0.346 | 1.86 |
| | | | 0.347 | | | | | | | | |
| 63) | T | ethylmethacryla | 0.281 | 0.269 | 0.276 | 0.276 | 0.273 | 0.270 | 0.267 | 0.272 | 2.07 |
| | | | 0.263 | | | | | | | | |
| 64) | T | 112Triclotha | 0.195 | 0.190 | 0.188 | 0.188 | 0.181 | 0.177 | 0.172 | 0.183 | 4.69 |
| | | | 0.173 | | | | | | | | |
| 65) | T | Tetrachlorte | 0.347 | 0.298 | 0.305 | 0.290 | 0.277 | 0.276 | 0.268 | 0.291 | 8.89 |
| | | | 0.271 | | | | | | | | |
| 66) | T | 13Diclorpropa | 0.380 | 0.374 | 0.366 | 0.356 | 0.349 | 0.345 | 0.342 | 0.357 | 4.31 |
| | | | 0.340 | | | | | | | | |
| 67) | I | d5-CHLOROBENZENE**IST | ----------ISTD---------- | | | | | | | | |
| 68) | T | 2Hexanone | 0.164 | 0.156 | 0.164 | 0.156 | 0.163 | 0.159 | 0.158 | 0.159 | 2.72 |
| | | | 0.153 | | | | | | | | |
| 69) | T | Clorodibrmta | 0.317 | 0.324 | 0.336 | 0.322 | 0.328 | 0.330 | 0.337 | 0.328 | 2.14 |
| | | | 0.333 | | | | | | | | |
| 70) | T | 12Dibrometha | 0.297 | 0.282 | 0.270 | 0.273 | 0.266 | 0.268 | 0.270 | 0.274 | 3.86 |
| | | | 0.267 | | | | | | | | |
| 71) | PT | Chlorobenzen | 0.931 | 0.926 | 0.886 | 0.878 | 0.881 | 0.885 | 0.884 | 0.891 | 2.73 |
| | | | 0.860 | | | | | | | | |
| 72) | T | 1Clhexane | 0.475 | 0.447 | 0.427 | 0.431 | 0.436 | 0.426 | 0.426 | 0.437 | 3.95 |
| | | | 0.423 | | | | | | | | |
| 73) | T | 1112Tetclota | 0.332 | 0.329 | 0.334 | 0.325 | 0.331 | 0.335 | 0.338 | 0.332 | 1.22 |
| | | | 0.330 | | | | | | | | |
| 74) | CT | Ethylbenzene | 1.651 | 1.572 | 1.584 | 1.525 | 1.522 | 1.524 | 1.516 | 1.545 | 3.66 |
| | | | 1.464 | | | | | | | | |
| 75) | T | m p-Xylene | 0.603 | 0.612 | 0.590 | 0.577 | 0.570 | 0.575 | 0.571 | 0.583 | 2.85 |
| | | | 0.568 | | | | | | | | |
| 76) | T | o-Xylene | 0.599 | 0.584 | 0.571 | 0.566 | 0.562 | 0.567 | 0.571 | 0.573 | 2.15 |
| | | | 0.564 | | | | | | | | |
| 77) | T | Styrene | 0.943 | 0.927 | 0.924 | 0.931 | 0.944 | 0.954 | 0.963 | 0.942 | 1.44 |
| | | | 0.947 | | | | | | | | |
| 78) | PT | Bromoform | 0.173 | 0.185 | 0.191 | 0.199 | 0.204 | 0.202 | 0.203 | 0.196 | 6.33 |
| | | | 0.211 | | | | | | | | |
| 79) | T | Isopropylben | 1.550 | 1.460 | 1.510 | 1.471 | 1.486 | 1.465 | 1.458 | 1.478 | 2.54 |
| | | | 1.426 | | | | | | | | |
| 80) | I | d4-1,4-DICHLOROBENZEN | ----------ISTD---------- | | | | | | | | |
| 81) | T | cyclohexanone | 0.050 | 0.048 | 0.050 | 0.047 | 0.052 | 0.050 | 0.049 | 0.049 | 3.44 |
| | | | 0.050 | | | | | | | | |
| 82) | S | SURR4BrFBenz | 0.974 | 0.976 | 0.986 | 0.979 | 0.963 | 0.979 | 0.958 | 0.969 | 1.52 |
| | | | 0.941 | | | | | | | | |
| 83) | T | Bromobenzene | 0.809 | 0.775 | 0.771 | 0.767 | 0.741 | 0.773 | 0.731 | 0.761 | 3.71 |
| | | | 0.722 | | | | | | | | |
| 84) | PT | 1122Tetrclta | 0.691 | 0.635 | 0.630 | 0.637 | 0.638 | 0.628 | 0.614 | 0.635 | 4.06 |
| | | | 0.604 | | | | | | | | |
| 85) | T | 123Triclproa | 0.625 | 0.623 | 0.647 | 0.602 | 0.626 | 0.635 | 0.613 | 0.624 | 2.16 |
| | | | 0.619 | | | | | | | | |
| 86) | T | 14dichloro2bute | 0.028 | 0.050 | 0.024 | 0.018 | 0.019 | 0.019 | 0.016 | ----- | |
| | | | 0.016 | | | | | | | | |
| | | | | | | | | Q | A= -0.000 R=0.995 | | |
| | | | | | | | | | B= 0.017 | | |
| | | | | | | | | | C= 0.002 | | |
| 87) | T | n-Propylbenz | 3.514 | 3.414 | 3.478 | 3.397 | 3.373 | 3.367 | 3.236 | 3.364 | 3.71 |
| | | | 3.132 | | | | | | | | |
| 88) | T | 2chlorotolue | 2.176 | 2.089 | 2.057 | 2.013 | 1.995 | 2.019 | 1.934 | 2.025 | 4.17 |
| | | | 1.914 | | | | | | | | |
| 89) | T | 4chlorotolue | 2.616 | 2.406 | 2.457 | 2.362 | 2.344 | 2.358 | 2.281 | 2.384 | 4.80 |
| | | | 2.247 | | | | | | | | |
| 90) | T | 135Trimebenz | 2.560 | 2.515 | 2.463 | 2.400 | 2.404 | 2.419 | 2.330 | 2.424 | 3.59 |
| | | | 2.302 | | | | | | | | |
| 91) | T | tbutylbenzen | 2.239 | 2.186 | 2.170 | 2.125 | 2.074 | 2.095 | 2.014 | 2.114 | 3.87 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2.009 | | | | | | | |
| 92) | T | 124Trimetben | 2.602 | 2.467 | 2.496 | 2.395 | 2.395 | 2.382 | 2.313 | 2.415 | 4.38 |
| | | | 2.268 | | | | | | | |
| 93) | T | sbutylbenzen | 2.963 | 2.991 | 3.041 | 2.986 | 2.994 | 3.051 | 2.877 | 2.965 | 2.72 |
| | | | 2.815 | | | | | | | |
| 94) | T | 13Diclorbenz | 1.423 | 1.363 | 1.342 | 1.303 | 1.292 | 1.307 | 1.260 | 1.317 | 4.32 |
| | | | 1.249 | | | | | | | |
| 95) | T | pIsopropylto | 2.699 | 2.609 | 2.633 | 2.571 | 2.570 | 2.571 | 2.447 | 2.567 | 3.44 |
| | | | 2.438 | | | | | | | |
| 96) | T | 14dichlorobe | 1.418 | 1.424 | 1.377 | 1.313 | 1.304 | 1.305 | 1.277 | 1.334 | 4.78 |
| | | | 1.256 | | | | | | | |
| 97) | T | 12dichlorobe | 1.296 | 1.238 | 1.234 | 1.203 | 1.197 | 1.217 | 1.156 | 1.211 | 3.97 |
| | | | 1.145 | | | | | | | |
| 98) | T | nButylbenzen | 2.500 | 2.370 | 2.382 | 2.367 | 2.315 | 2.378 | 2.245 | 2.347 | 3.76 |
| | | | 2.218 | | | | | | | |
| 99) | T | 12dibromo3cl | 0.116 | 0.119 | 0.118 | 0.117 | 0.116 | 0.122 | 0.112 | 0.117 | 2.69 |
| | | | 0.119 | | | | | | | |
| 100) | T | 135Trichloroben | 1.050 | 1.039 | 1.013 | 0.961 | 0.944 | 0.990 | 0.899 | 0.977 | 5.61 |
| | | | 0.923 | | | | | | | |
| 101) | T | 124Trichlobe | 0.926 | 0.881 | 0.880 | 0.848 | 0.847 | 0.882 | 0.799 | 0.860 | 4.72 |
| | | | 0.817 | | | | | | | |
| 102) | T | Hexachlorobu | 0.592 | 0.538 | 0.523 | 0.536 | 0.540 | 0.552 | 0.505 | 0.541 | 4.63 |
| | | | 0.544 | | | | | | | |
| 103) | T | Naphthalene | 1.451 | 1.420 | 1.491 | 1.427 | 1.524 | 1.571 | 1.488 | 1.490 | 3.71 |
| | | | 1.547 | | | | | | | |
| 104) | T | 123Trichlben | 0.871 | 0.725 | 0.779 | 0.743 | 0.753 | 0.772 | 0.720 | 0.765 | 6.22 |
| | | | 0.755 | | | | | | | |

Total Average %RSD 4.48

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

LS041025.M Wed Apr 16 07:40:25 2025

BFB

Data File : C:\Instarch\Data\APR1025\BFB1.D  Vial: 1
Acq On : 10 Apr 2025 9:19  Operator: RLD-DGS
Sample : BFB DIRECT INJ.  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS041025.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.936 to 4.943 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 17.2 | 7678 | PASS |
| 75 | 95 | 30 | 60 | 49.2 | 22021 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 44768 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 3138 | PASS |
| 173 | 174 | 0.00 | 2 | 0.3 | 107 | PASS |
| 174 | 95 | 50 | 100 | 80.0 | 35824 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 2689 | PASS |
| 176 | 174 | 95 | 101 | 97.8 | 35050 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 2340 | PASS |

LS041025.M Wed Apr 16 07:34:54 2025

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL1.D Vial: 4
Acq On : 10 Apr 2025 10:31 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 1 Inst : VMS4
Misc : 0.001/0.010 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:12:16 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:09:15 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 986633 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 831008 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 420024 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 267356 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 48663 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 95 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1017962 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 408933 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 15411 | 0.0010 | mg/kg | 96 |
| 3) Chloromethan | 2.20 | 50 | 18333 | 0.0011 | mg/kg | 66 |
| 4) VinylChlorid | 2.36 | 62 | 17475 | 0.0011 | mg/kg | 85 |
| 5) Bromomethane | 2.86 | 94 | 13824 | 0.0012 | mg/kg | 97 |
| 6) Chloroethane | 3.01 | 64 | 6477m | 0.0006 | mg/kg# | 98 |
| 7) dichloroflmethane | 3.33 | 67 | 24164 | 0.0011 | mg/kg | 87 |
| 8) Trichlorofma | 3.42 | 101 | 20764 | 0.0010 | mg/kg | 89 |
| 9) Ethylether | 3.89 | 59 | 9955 | 0.0011 | mg/kg | 88 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 13400 | 0.0010 | mg/kg | 93 |
| 11) propyleneoxide | 4.10 | 58 | 18340 | 0.0108 | mg/kg | 74 |
| 12) Acrolein | 4.01 | 56 | 11627 | 0.0062 | mg/kg | 99 |
| 13) 11dichlorthe | 4.15 | 96 | 12242 | 0.0011 | mg/kg# | 88 |
| 14) Trichlorotfluoroeth | 4.20 | 101 | 19712 | 0.0019 | mg/kg | 95 |
| 15) Acetone | 4.24 | 43 | 48389m | 0.0121 | mg/kg | 98 |
| 16) Iodomethane | 4.33 | 142 | 24852 | 0.0020 | mg/kg | 98 |
| 17) Carbon Dislf | 4.43 | 76 | 61331 | 0.0021 | mg/kg | 94 |
| 18) allylchloride | 4.64 | 41 | 36790 | 0.0021 | mg/kg | 95 |
| 19) methylacetate | 4.71 | 74 | 4321 | 0.0011 | mg/kg | 78 |
| 20) Methylchlorid | 4.80 | 84 | 21605m | 0.0014 | mg/kg# | 98 |
| 21) Acrylonitrile | 5.10 | 53 | 15822 | 0.0056 | mg/kg | 97 |
| 22) t12dichlorte | 5.19 | 96 | 13727 | 0.0011 | mg/kg | 96 |
| 23) tbutylalcohol | 5.05 | 59 | 33467 | 0.0516 | mg/kg | 94 |
| 24) MtBE | 5.25 | 73 | 18414 | 0.0010 | mg/kg | 90 |
| 25) Hexane | 5.59 | 57 | 31910 | 0.0021 | mg/kg | 90 |
| 26) 11dichlorota | 5.71 | 63 | 24008 | 0.0011 | mg/kg | 95 |
| 27) Vinylacetate | 5.81 | 43 | 207611 | 0.0101 | mg/kg | 99 |
| 28) chloroprene | 5.85 | 53 | 34050 | 0.0019 | mg/kg | 95 |
| 29) Diisopether | 5.89 | 45 | 36937 | 0.0010 | mg/kg# | 98 |
| 30) ETBE | 6.34 | 59 | 7388 | 0.0011 | mg/kg | 91 |
| 31) 22dichloropr | 6.46 | 77 | 17231 | 0.0011 | mg/kg | 92 |
| 32) c12dichlorte | 6.45 | 96 | 14443 | 0.0010 | mg/kg | 88 |
| 33) 2Butanone | 6.49 | 72 | 12714 | 0.0108 | mg/kg | 92 |
| 34) propionitrile | 6.51 | 54 | 14163 | 0.0119 | mg/kg | 96 |
| 35) Ethylacetate | 6.60 | 88 | 1160 | 0.0052 | mg/kg# | 40 |
| 36) methacrylonitrile | 6.72 | 67 | 6914 | 0.0018 | mg/kg | 86 |
| 37) Bromochlorma | 6.74 | 128 | 6576 | 0.0010 | mg/kg | 99 |
| 38) Tetrahydofur | 6.88 | 42 | 26710 | 0.0103 | mg/kg | 94 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL1.D Vial: 4
Acq On : 10 Apr 2025 10:31 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 1 Inst : VMS4
Misc : 0.001/0.010 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:12:16 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:09:15 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 6.84 | 83 | 25821 | 0.0011 mg/kg | 93 |
| 40) 111trichlota | 7.10 | 97 | 22157 | 0.0010 mg/kg | 96 |
| 42) Cyclohexane | 7.20 | 56 | 17698 | 0.0010 mg/kg | 93 |
| 43) Carbtetraclo | 7.33 | 119 | 18001 | 0.0010 mg/kg | 100 |
| 44) 11dicloprope | 7.31 | 110 | 7119 | 0.0011 mg/kg# | 87 |
| 46) Benzene | 7.56 | 78 | 53543 | 0.0011 mg/kg | 95 |
| 47) 12dichlorota | 7.55 | 62 | 17607 | 0.0010 mg/kg | 91 |
| 48) TAME | 7.75 | 73 | 1414 | 0.0005 mg/kg# | 20 |
| 49) trichloroete | 8.37 | 95 | 14246 | 0.0010 mg/kg | 98 |
| 50) methylcyclohexane | 8.64 | 83 | 19050 | 0.0009 mg/kg | 89 |
| 51) 12dicloropra | 8.62 | 63 | 12531 | 0.0010 mg/kg# | 93 |
| 52) 23dicl1propene | 8.69 | 75 | 20282 | 0.0010 mg/kg | 91 |
| 53) Dibromometha | 8.77 | 93 | 8081 | 0.0010 mg/kg | 86 |
| 54) methylmethacrylate | 8.81 | 69 | 6507 | 0.0009 mg/kg | 93 |
| 55) 14dioxane | 8.84 | 88 | 5646 | 0.0549 mg/kg | 87 |
| 56) Bromodiclrma | 8.96 | 83 | 20711 | 0.0011 mg/kg | 99 |
| 57) 2Nitropropane | 9.22 | 43 | 31961 | 0.0102 mg/kg | 94 |
| 58) c13dicloproe | 9.55 | 75 | 22201 | 0.0011 mg/kg | 97 |
| 59) 4Meth2Pentan | 9.76 | 43 | 96881 | 0.0109 mg/kg | 99 |
| 61) Toluene | 10.01 | 92 | 36091 | 0.0011 mg/kg | 96 |
| 62) t13Dicloprop | 10.25 | 75 | 17376 | 0.0010 mg/kg | 98 |
| 63) ethylmethacrylate | 10.41 | 69 | 27693 | 0.0021 mg/kg | 96 |
| 64) 112Triclotha | 10.50 | 83 | 9639 | 0.0011 mg/kg | 98 |
| 65) Tetrachlorte | 10.75 | 166 | 17108 | 0.0012 mg/kg | 91 |
| 66) 13Diclorpropa | 10.73 | 76 | 18741 | 0.0011 mg/kg | 91 |
| 68) 2Hexanone | 10.86 | 43 | 68183 | 0.0103 mg/kg | 99 |
| 69) Clorodibrmta | 11.03 | 129 | 13159 | 0.0010 mg/kg | 98 |
| 70) 12Dibrometha | 11.18 | 107 | 12345 | 0.0011 mg/kg | 96 |
| 71) Chlorobenzen | 11.88 | 112 | 38672 | 0.0010 mg/kg | 83 |
| 72) 1Clhexane | 11.84 | 91 | 19730 | 0.0011 mg/kg# | 75 |
| 73) 1112Tetclota | 11.98 | 131 | 13776 | 0.0010 mg/kg | 98 |
| 74) Ethylbenzene | 12.04 | 91 | 68601 | 0.0011 mg/kg | 99 |
| 75) m p-Xylene | 12.20 | 106 | 50102 | 0.0021 mg/kg | 91 |
| 76) o-Xylene | 12.75 | 106 | 24870 | 0.0010 mg/kg | 98 |
| 77) Styrene | 12.77 | 104 | 39177 | 0.0010 mg/kg | 92 |
| 78) Bromoform | 12.99 | 173 | 7183 | 0.0009 mg/kg | 91 |
| 79) Isopropylben | 13.28 | 105 | 64395 | 0.0010 mg/kg | 96 |
| 81) cyclohexanone | 13.38 | 55 | 21023 | 0.0202 mg/kg | 98 |
| 83) Bromobenzene | 13.69 | 156 | 16985 | 0.0011 mg/kg | 97 |
| 84) 1122Tetrclta | 13.64 | 83 | 14514 | 0.0011 mg/kg | 98 |
| 85) 123Triclproa | 13.71 | 75 | 13118 | 0.0010 mg/kg | 100 |
| 86) 14dichloro2butene | 13.88 | 53 | 588m | 0.0010 mg/kg# | 1 |
| 87) n-Propylbenz | 13.86 | 91 | 73808 | 0.0010 mg/kg | 98 |
| 88) 2chlorotolue | 13.98 | 91 | 45709 | 0.0011 mg/kg | 98 |
| 89) 4chlorotolue | 14.13 | 91 | 54947 | 0.0011 mg/kg | 100 |
| 90) 135Trimebenz | 14.12 | 105 | 53770 | 0.0011 mg/kg | 96 |
| 91) tbutylbenzen | 14.60 | 119 | 47027 | 0.0011 mg/kg | 95 |
| 92) 124Trimetben | 14.66 | 105 | 54653 | 0.0011 mg/kg | 99 |
| 93) sbutylbenzen | 14.91 | 105 | 62219 | 0.0010 mg/kg | 99 |
| 94) 13Diclorbenz | 15.06 | 146 | 29875 | 0.0011 mg/kg | 99 |
| 95) pIsopropylto | 15.13 | 119 | 56674 | 0.0011 mg/kg | 97 |
| 96) 14dichlorobe | 15.18 | 146 | 29773 | 0.0011 mg/kg | 87 |
| 97) 12dichlorobe | 15.73 | 146 | 27221 | 0.0011 mg/kg# | 82 |
| 98) nButylbenzen | 15.73 | 91 | 52496 | 0.0011 mg/kg | 98 |
| 99) 12dibromo3cl | 16.81 | 157 | 2435 | 0.0010 mg/kg | 95 |
| 100) 135Trichlorobenzene | 17.14 | 180 | 22048 | 0.0011 mg/kg | 96 |
| 101) 124Trichlobe | 17.94 | 180 | 19443 | 0.0011 mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\Instarch\Data\APR1025\LLSCAL1.D Vial: 4
Acq On : 10 Apr 2025 10:31 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 1 Inst : VMS4
Misc : 0.001/0.010 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:12:16 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:09:15 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 12438 | 0.0011 mg/kg | 97 |
| 103) Naphthalene | 18.24 | 128 | 30472 | 0.0010 mg/kg | 96 |
| 104) 123Trichlben | 18.56 | 180 | 18291 | 0.0011 mg/kg | 98 |

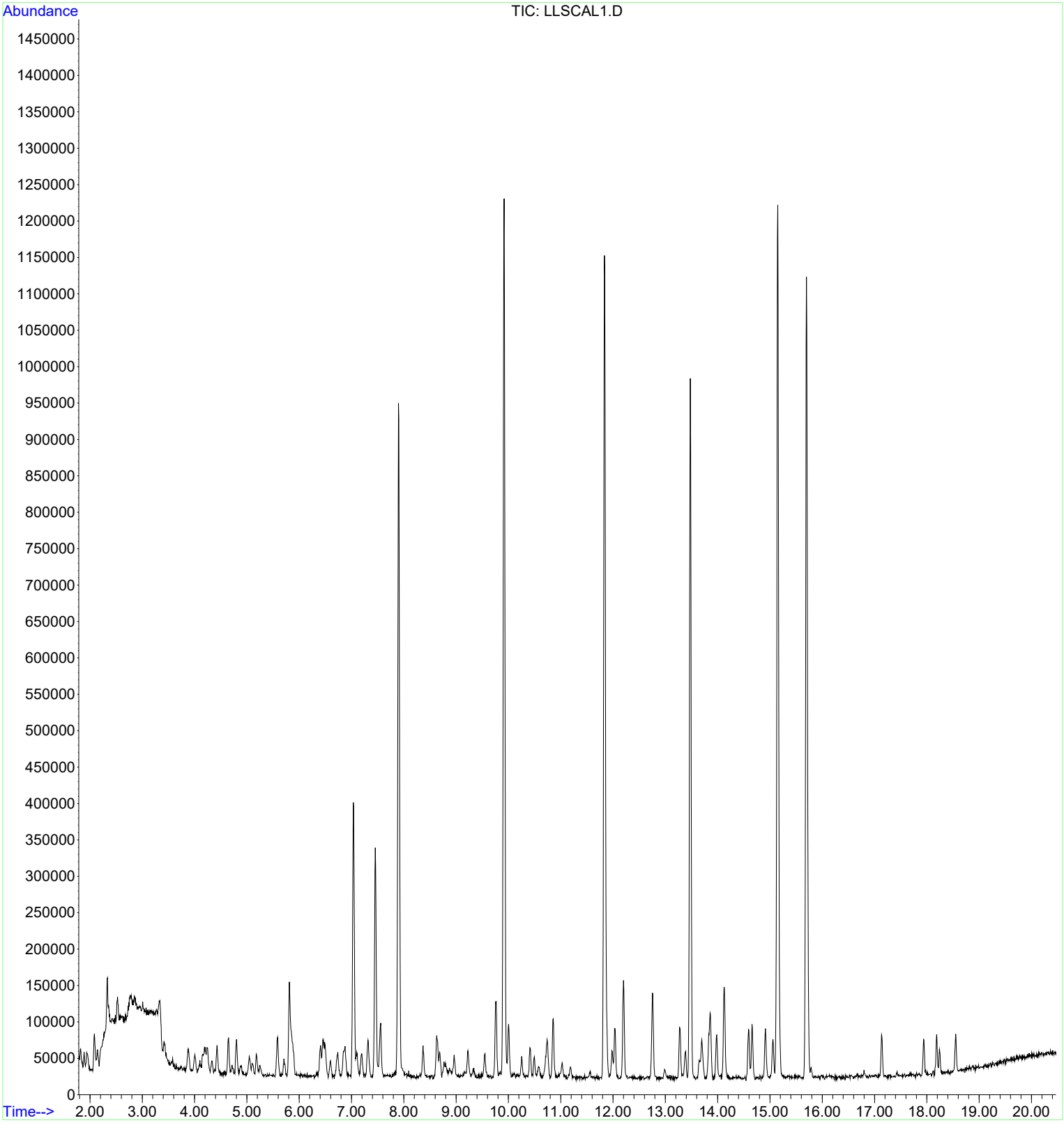
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL1.D Vial: 4
Acq On : 10 Apr 2025 10:31 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 1 Inst : VMS4
Misc : 0.001/0.010 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

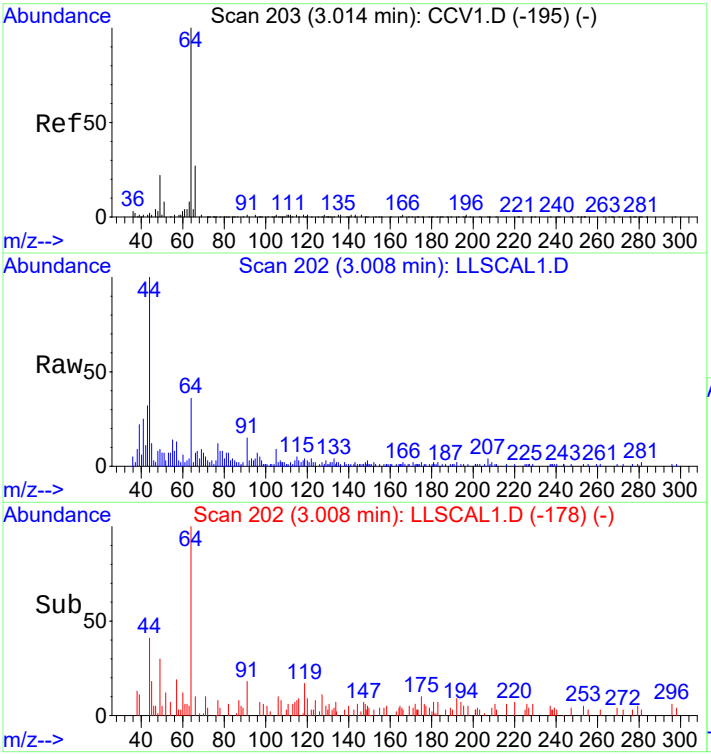
Quant Time: Apr 11 07:12:16 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:09:15 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



After Manual Integration

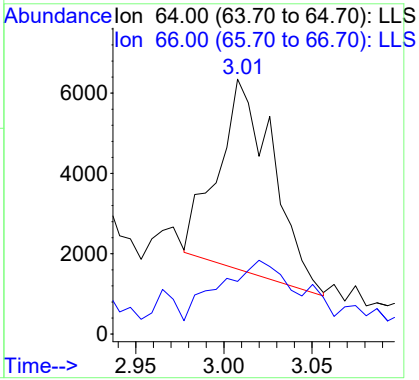
RO 04/16/2025

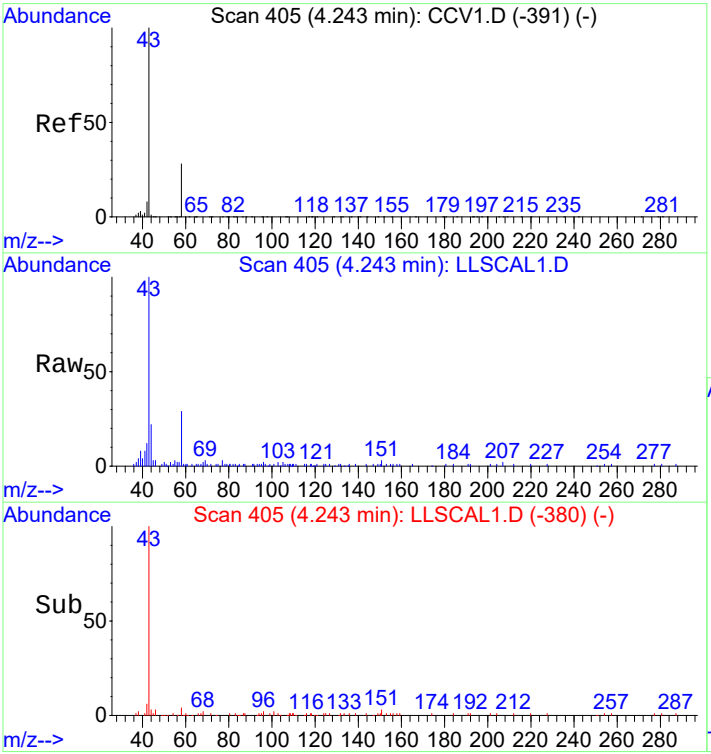



#6
Chloroethane
Concen: 0.00 mg/kg m
RT: 3.01 min Scan# 202
Delta R.T. -0.01 min
Lab File: LLSCAL1.D
Acq: 10 Apr 2025 10:31

Tgt Ion: 64 Resp: 6477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 48.5 | 13.1 | 53.1 |

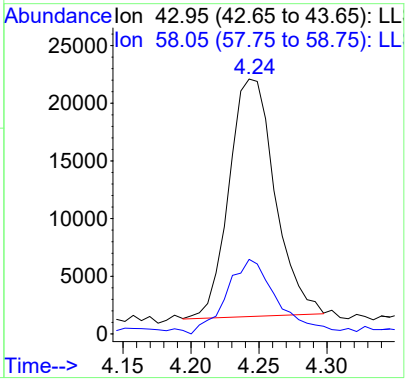



#15
Acetone
Concen: 0.01 mg/kg m
RT: 4.24 min Scan# 405
Delta R.T. 0.00 min
Lab File: LLSCAL1.D
Acq: 10 Apr 2025 10:31

Tgt Ion: 43 Resp: 48389

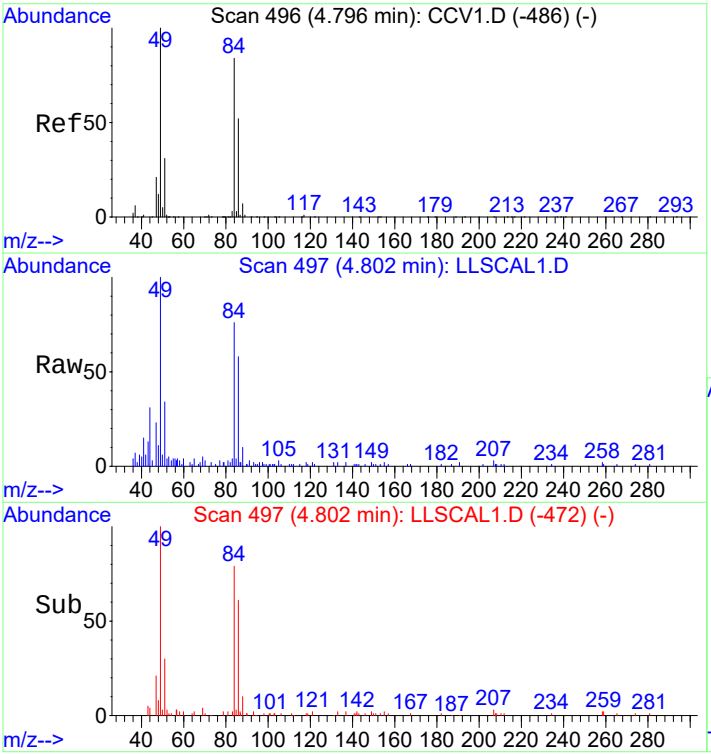
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.2 | 8.8 | 48.8 |




DGS 04/17/2025

After Manual Integration

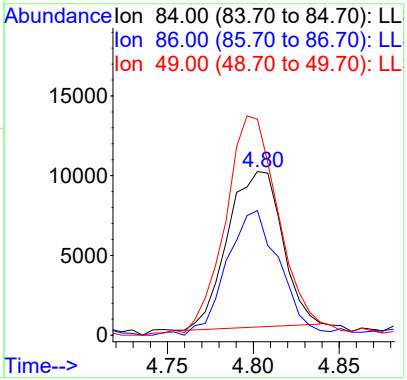
RO 04/16/2025

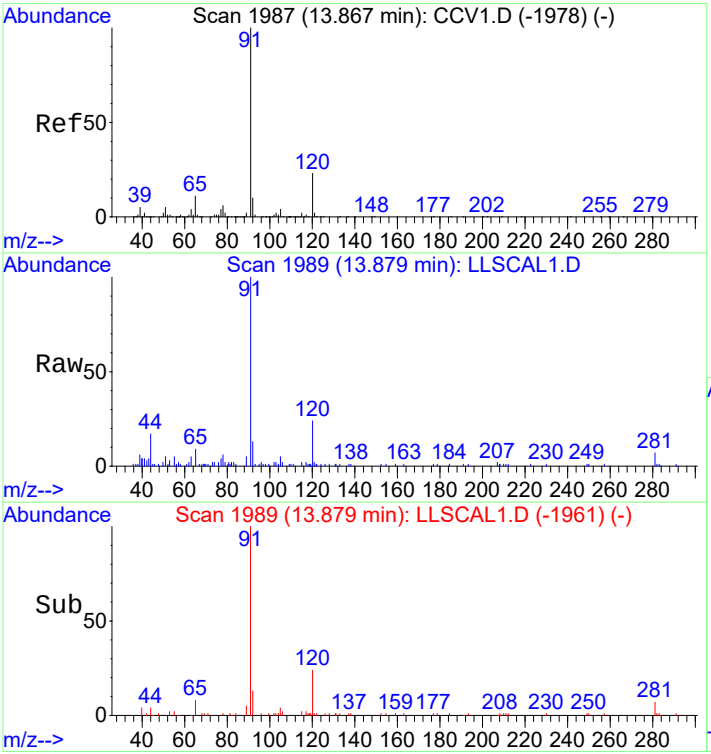



#20
Methylchlorid
Concen: 0.00 mg/kg m
RT: 4.80 min Scan# 497
Delta R.T. 0.00 min
Lab File: LLSCAL1.D
Acq: 10 Apr 2025 10:31

Tgt Ion: 84 Resp: 21605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 79.0 | 44.6 | 84.6 |
| 49 | 144.3 | 103.4 | 143.4# |

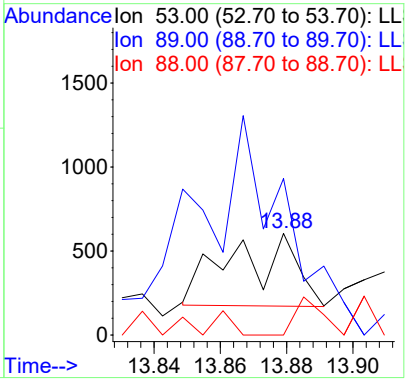


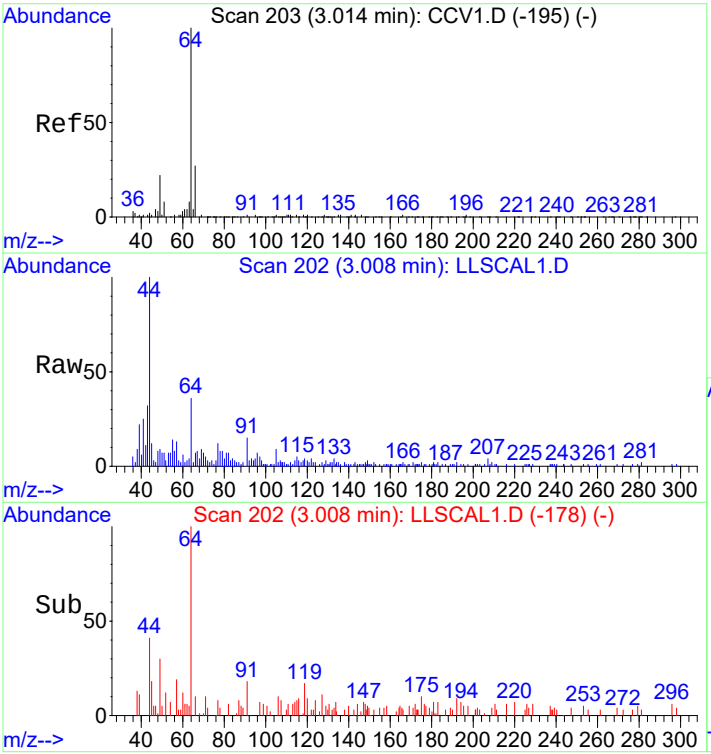

#86
14dichloro2butene
Concen: 0.00 mg/kg m
RT: 13.88 min Scan# 1989
Delta R.T. 0.02 min
Lab File: LLSCAL1.D
Acq: 10 Apr 2025 10:31

Tgt Ion: 53 Resp: 588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 89 | 458.8 | 533.8 | 573.8# |
| 88 | 0.0 | 0.0 | 20.0 |




DGS 04/17/2025



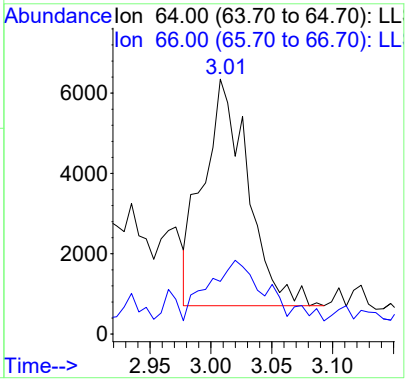

#6
Chloroethane
Concen: 0.00 mg/kg
RT: 3.01 min Scan# 202
Delta R.T. -0.01 min
Lab File: LLSCAL1.D
Acq: 10 Apr 2025 10:31

Tgt Ion: 64 Resp: 14444

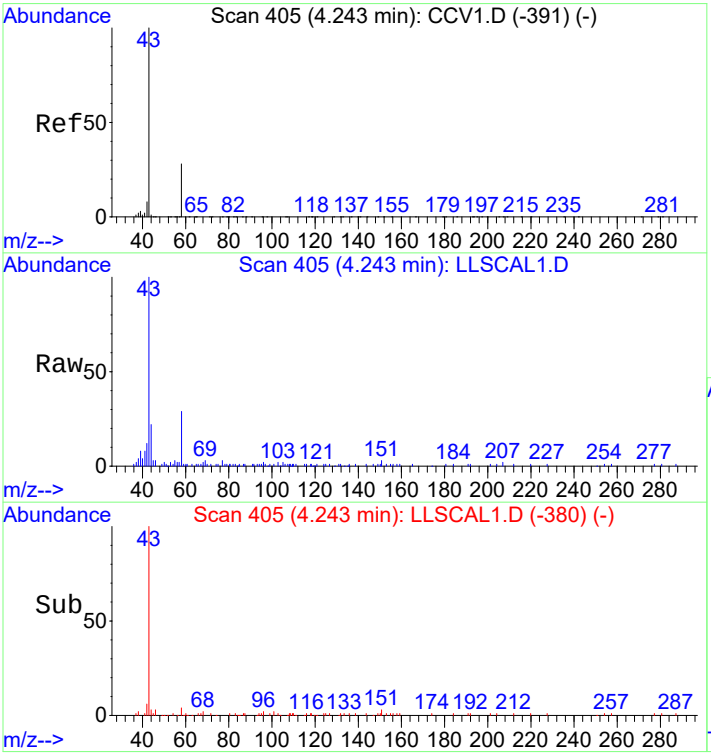
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.5 | 13.1 | 53.1 |

Before Manual Integration

RO 04/16/2025



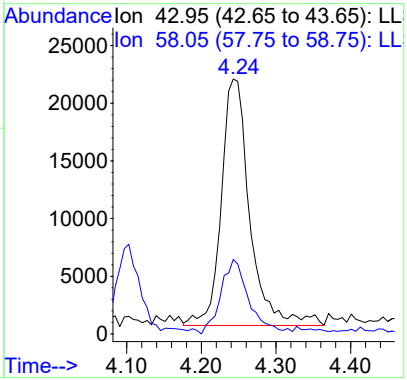

REASON # 2



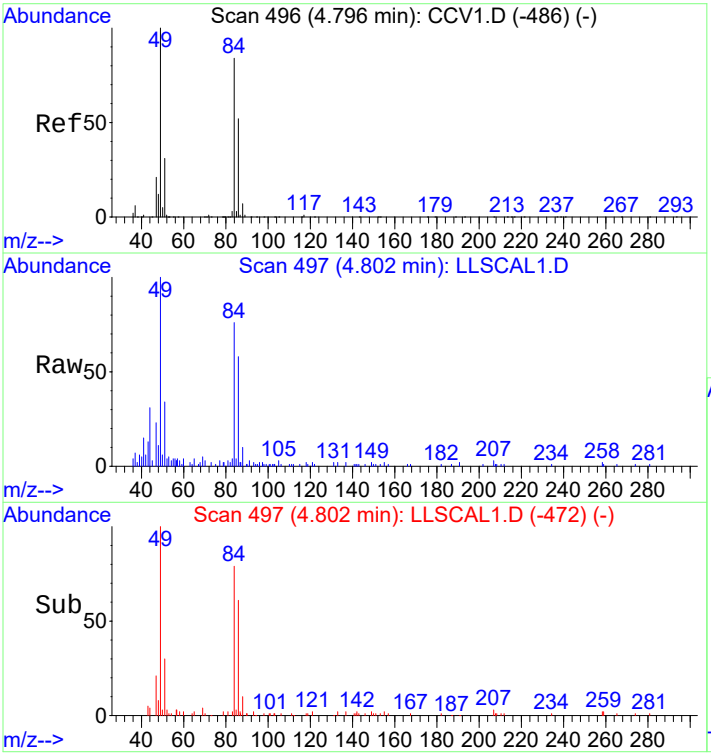

#15
Acetone
Concen: 0.01 mg/kg
RT: 4.24 min Scan# 405
Delta R.T. 0.00 min
Lab File: LLSCAL1.D
Acq: 10 Apr 2025 10:31

Tgt Ion: 43 Resp: 56717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.0 | 8.8 | 48.8 |



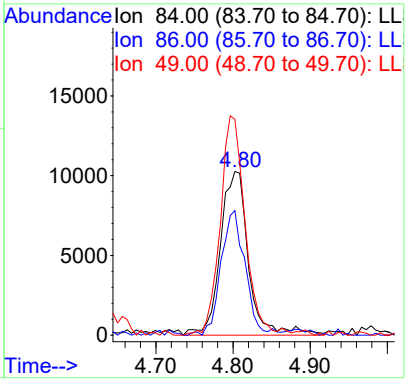

REASON # 2




#20
Methylchlorid
Concen: 0.00 mg/kg
RT: 4.80 min Scan# 497
Delta R.T. 0.00 min
Lab File: LLSCAL1.D
Acq: 10 Apr 2025 10:31

Tgt Ion: 84 Resp: 26006

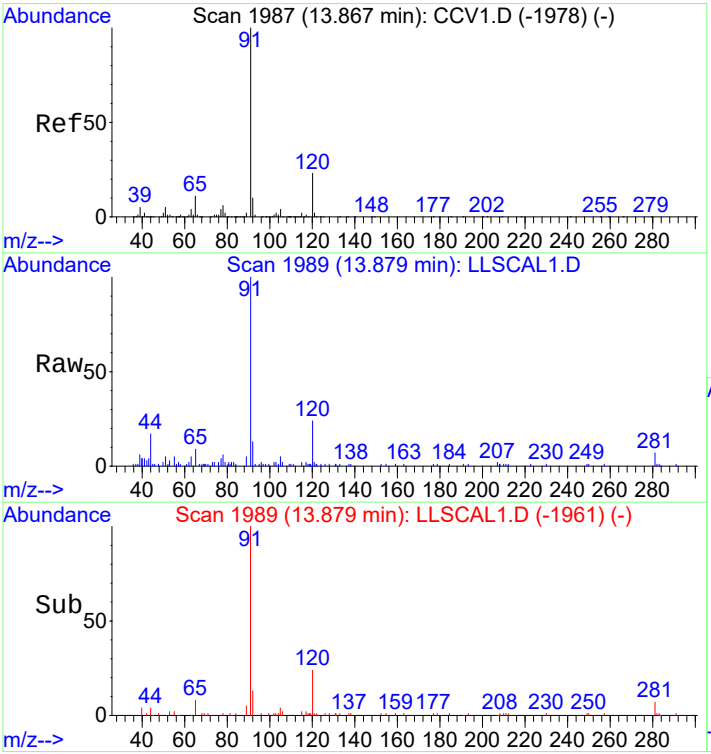
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 65.6 | 44.6 | 84.6 |
| 49 | 119.9 | 103.4 | 143.4 |




Before Manual Integration

RO 04/16/2025

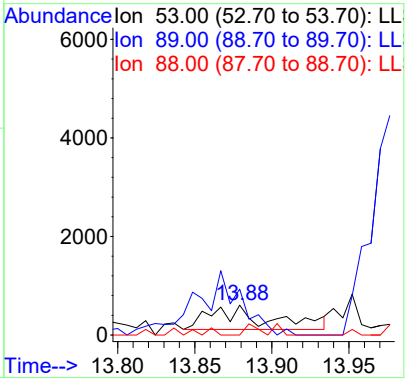
REASON # 2




#86
14dichloro2butene
Concen: 0.00 mg/kg
RT: 13.88 min Scan# 1989
Delta R.T. 0.02 min
Lab File: LLSCAL1.D
Acq: 10 Apr 2025 10:31

Tgt Ion: 53 Resp: 1293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 89 | 208.7 | 533.8 | 573.8# |
| 88 | 0.0 | 0.0 | 20.0 |




REASON # 2

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL2.D Vial: 5
Acq On : 10 Apr 2025 11:00 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 2 Inst : VMS4
Misc : 0.002/0.020 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:13:28 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:08:57 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 977065 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 833450 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.14 | 152 | 424330 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 264334 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 50043 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1004903 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 413987 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 29945 | 0.0020 | mg/kg | 97 |
| 3) Chloromethan | 2.20 | 50 | 34507 | 0.0022 | mg/kg | 96 |
| 4) VinylChlorid | 2.36 | 62 | 31779 | 0.0019 | mg/kg | 81 |
| 5) Bromomethane | 2.85 | 94 | 25874 | 0.0023 | mg/kg | 93 |
| 6) Chloroethane | 3.02 | 64 | 17415m | 0.0016 | mg/kg | 98 |
| 7) dichloroflmethane | 3.33 | 67 | 46151 | 0.0022 | mg/kg | 93 |
| 8) Trichlorofma | 3.42 | 101 | 42351 | 0.0020 | mg/kg | 98 |
| 9) Ethylether | 3.89 | 59 | 19198 | 0.0021 | mg/kg | 93 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 28512 | 0.0022 | mg/kg | 93 |
| 11) propyleneoxide | 4.10 | 58 | 32677 | 0.0194 | mg/kg | 95 |
| 12) Acrolein | 4.01 | 56 | 20741 | 0.0112 | mg/kg | 94 |
| 13) 11dichlorthe | 4.15 | 96 | 23904 | 0.0021 | mg/kg | 93 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 41804 | 0.0040 | mg/kg | 98 |
| 15) Acetone | 4.24 | 43 | 77941m | 0.0197 | mg/kg | 96 |
| 16) Iodomethane | 4.33 | 142 | 44666 | 0.0036 | mg/kg | 98 |
| 17) Carbon Dislf | 4.43 | 76 | 118941 | 0.0041 | mg/kg | 95 |
| 18) allylchloride | 4.64 | 41 | 72279 | 0.0042 | mg/kg | 98 |
| 19) methylacetate | 4.72 | 74 | 8299 | 0.0022 | mg/kg | 98 |
| 20) Methylchlorid | 4.80 | 84 | 32128m | 0.0021 | mg/kg# | 95 |
| 21) Acrylonitrile | 5.11 | 53 | 29722 | 0.0106 | mg/kg | 98 |
| 22) t12dichlorte | 5.19 | 96 | 26216 | 0.0020 | mg/kg | 93 |
| 23) tbutylalcohol | 5.04 | 59 | 64029 | 0.0997 | mg/kg | 98 |
| 24) MtBE | 5.25 | 73 | 35968 | 0.0020 | mg/kg | 90 |
| 25) Hexane | 5.59 | 57 | 60422 | 0.0041 | mg/kg | 98 |
| 26) 11dichlorota | 5.72 | 63 | 48558 | 0.0021 | mg/kg | 99 |
| 27) Vinylacetate | 5.81 | 43 | 453939 | 0.0224 | mg/kg | 100 |
| 28) chloroprene | 5.85 | 53 | 77411 | 0.0042 | mg/kg | 94 |
| 29) Diisopether | 5.89 | 45 | 73700 | 0.0020 | mg/kg# | 100 |
| 30) ETBE | 6.35 | 59 | 9410 | 0.0015 | mg/kg | 86 |
| 31) 22dichloropr | 6.46 | 77 | 32210 | 0.0020 | mg/kg | 95 |
| 32) c12dichlorte | 6.45 | 96 | 28424 | 0.0020 | mg/kg | 99 |
| 33) 2Butanone | 6.49 | 72 | 24204 | 0.0207 | mg/kg | 94 |
| 34) propionitrile | 6.52 | 54 | 24086 | 0.0204 | mg/kg | 88 |
| 35) Ethylacetate | 6.60 | 88 | 2048 | 0.0093 | mg/kg# | 82 |
| 36) methacrylonitrile | 6.72 | 67 | 17634 | 0.0047 | mg/kg | 89 |
| 37) Bromochlorma | 6.74 | 128 | 13344 | 0.0021 | mg/kg | 92 |
| 38) Tetrahydofur | 6.88 | 42 | 54705 | 0.0213 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL2.D Vial: 5
Acq On : 10 Apr 2025 11:00 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 2 Inst : VMS4
Misc : 0.002/0.020 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:13:28 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:08:57 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 50430 | 0.0021 mg/kg | 99 |
| 40) | 111trichlota | 7.11 | 97 | 43497 | 0.0021 mg/kg | 97 |
| 42) | Cyclohexane | 7.19 | 56 | 36500 | 0.0020 mg/kg | 97 |
| 43) | Carbtetraclo | 7.33 | 119 | 36127 | 0.0020 mg/kg | 99 |
| 44) | 11dicloprope | 7.31 | 110 | 12516 | 0.0020 mg/kg | 95 |
| 46) | Benzene | 7.55 | 78 | 103604 | 0.0021 mg/kg | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 34912 | 0.0021 mg/kg | 98 |
| 48) | TAME | 7.75 | 73 | 4157 | 0.0016 mg/kg# | 48 |
| 49) | trichloroete | 8.37 | 95 | 28476 | 0.0021 mg/kg | 99 |
| 50) | methylcyclohexane | 8.65 | 83 | 40609 | 0.0020 mg/kg | 96 |
| 51) | 12dicloropra | 8.62 | 63 | 26447 | 0.0020 mg/kg | 94 |
| 52) | 23dicl1propene | 8.69 | 75 | 42769 | 0.0021 mg/kg | 97 |
| 53) | Dibromometha | 8.77 | 93 | 15724 | 0.0020 mg/kg | 97 |
| 54) | methylmethacrylate | 8.81 | 69 | 14287 | 0.0021 mg/kg | 96 |
| 55) | 14dioxane | 8.84 | 88 | 10526 | 0.1034 mg/kg | 92 |
| 56) | Bromodiclrma | 8.97 | 83 | 39063 | 0.0021 mg/kg | 98 |
| 57) | 2Nitropropane | 9.23 | 43 | 64128 | 0.0207 mg/kg | 99 |
| 58) | c13dicloproe | 9.55 | 75 | 40361 | 0.0020 mg/kg | 93 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 176980 | 0.0202 mg/kg | 99 |
| 61) | Toluene | 10.01 | 92 | 67658 | 0.0021 mg/kg | 98 |
| 62) | t13Dicloprop | 10.25 | 75 | 33143 | 0.0020 mg/kg | 99 |
| 63) | ethylmethacrylate | 10.41 | 69 | 52598 | 0.0040 mg/kg | 94 |
| 64) | 112Triclotha | 10.49 | 83 | 18520 | 0.0021 mg/kg | 95 |
| 65) | Tetrachlorte | 10.75 | 166 | 29148 | 0.0020 mg/kg | 96 |
| 66) | 13Diclorpropa | 10.72 | 76 | 36589 | 0.0021 mg/kg | 97 |
| 68) | 2Hexanone | 10.86 | 43 | 130107 | 0.0196 mg/kg | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 27044 | 0.0020 mg/kg | 98 |
| 70) | 12Dibrometha | 11.18 | 107 | 23520 | 0.0021 mg/kg | 98 |
| 71) | Chlorobenzen | 11.88 | 112 | 77193 | 0.0021 mg/kg | 94 |
| 72) | 1Clhexane | 11.85 | 91 | 37230 | 0.0020 mg/kg# | 81 |
| 73) | 1112Tetclota | 11.99 | 131 | 27418 | 0.0020 mg/kg | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 131048 | 0.0020 mg/kg | 98 |
| 75) | m p-Xylene | 12.20 | 106 | 102080 | 0.0042 mg/kg | 98 |
| 76) | o-Xylene | 12.75 | 106 | 48645 | 0.0020 mg/kg | 100 |
| 77) | Styrene | 12.76 | 104 | 77243 | 0.0020 mg/kg | 100 |
| 78) | Bromoform | 12.99 | 173 | 15395 | 0.0019 mg/kg | 96 |
| 79) | Isopropylben | 13.28 | 105 | 121643 | 0.0020 mg/kg | 98 |
| 81) | cyclohexanone | 13.37 | 55 | 40604 | 0.0387 mg/kg | 98 |
| 83) | Bromobenzene | 13.70 | 156 | 32879 | 0.0020 mg/kg | 97 |
| 84) | 1122Tetrclta | 13.65 | 83 | 26950 | 0.0020 mg/kg | 92 |
| 85) | 123Triclproa | 13.71 | 75 | 26440 | 0.0020 mg/kg | 99 |
| 86) | 14dichloro2butene | 13.81 | 53 | 2110m | 0.0036 mg/kg# | 1 |
| 87) | n-Propylbenz | 13.86 | 91 | 144875 | 0.0020 mg/kg | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 88644 | 0.0021 mg/kg | 98 |
| 89) | 4chlorotolue | 14.13 | 91 | 102078 | 0.0020 mg/kg | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 106704 | 0.0021 mg/kg | 97 |
| 91) | tbutylbenzen | 14.59 | 119 | 92740 | 0.0021 mg/kg | 97 |
| 92) | 124Trimetben | 14.66 | 105 | 104686 | 0.0020 mg/kg | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 126900 | 0.0020 mg/kg | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 57843 | 0.0021 mg/kg | 97 |
| 95) | pIsopropylto | 15.13 | 119 | 110706 | 0.0020 mg/kg | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 60405 | 0.0021 mg/kg | 96 |
| 97) | 12dichlorobe | 15.72 | 146 | 52539 | 0.0020 mg/kg | 93 |
| 98) | nButylbenzen | 15.72 | 91 | 100554 | 0.0020 mg/kg | 100 |
| 99) | 12dibromo3cl | 16.81 | 157 | 5043 | 0.0020 mg/kg | 98 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 44074 | 0.0021 mg/kg | 98 |
| 101) | 124Trichlobe | 17.94 | 180 | 37381 | 0.0020 mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL2.D Vial: 5
Acq On : 10 Apr 2025 11:00 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 2 Inst : VMS4
Misc : 0.002/0.020 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:13:28 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:08:57 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 22848 | 0.0020 | mg/kg | 95 |
| 103) | Naphthalene | 18.25 | 128 | 60236 | 0.0019 | mg/kg | 99 |
| 104) | 123Trichlben | 18.56 | 180 | 30753 | 0.0019 | mg/kg | 95 |

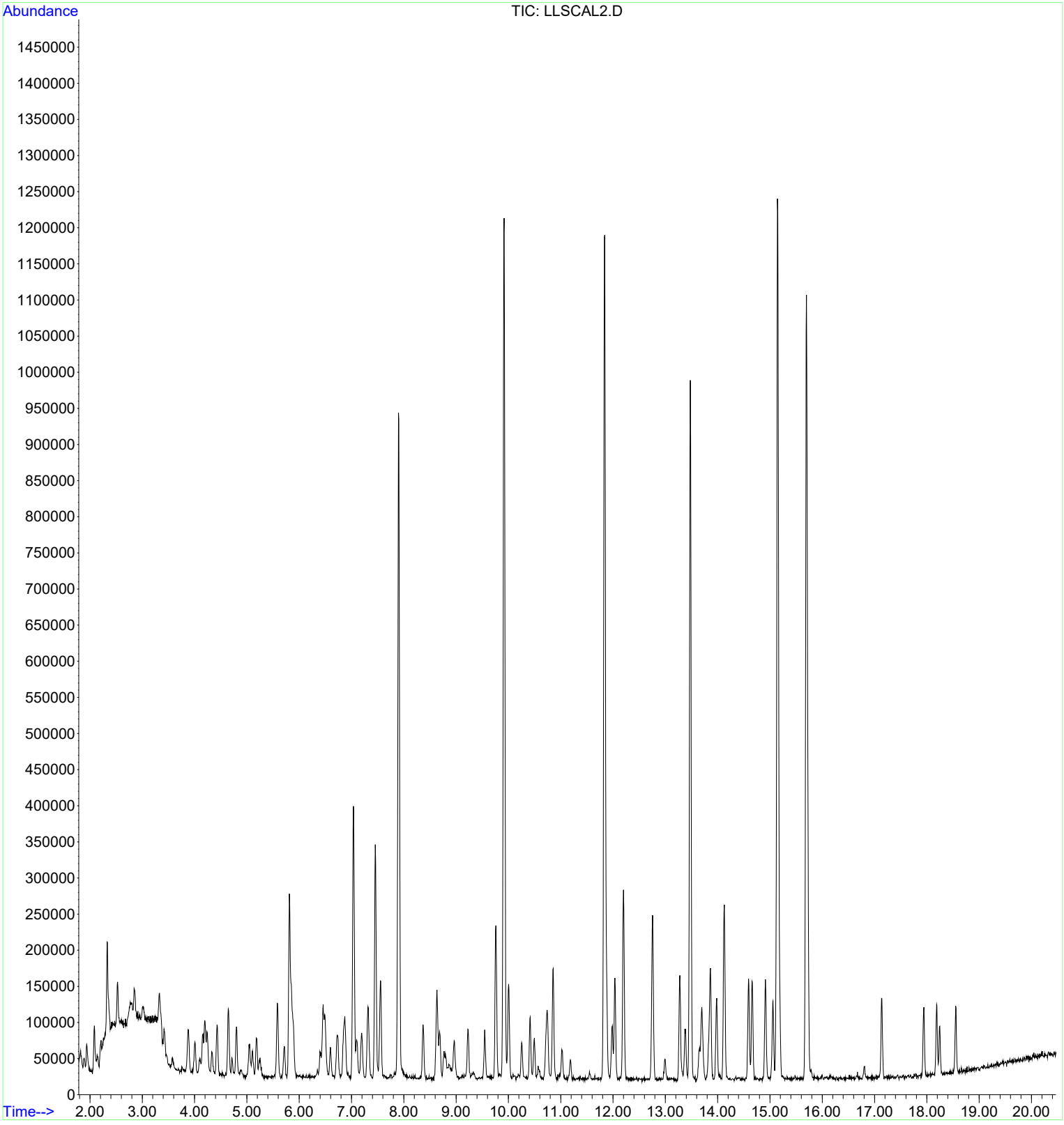
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL2.D Vial: 5
Acq On : 10 Apr 2025 11:00 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 2 Inst : VMS4
Misc : 0.002/0.020 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

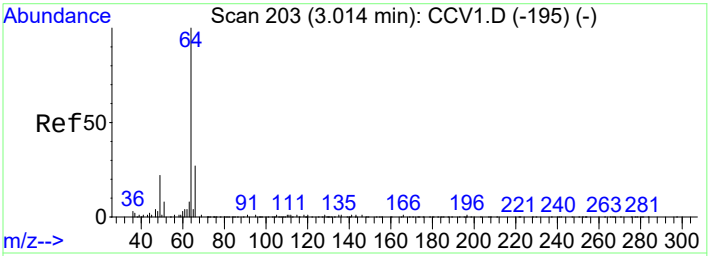
Quant Time: Apr 11 07:13:28 2025 Results File: LS041025.RES

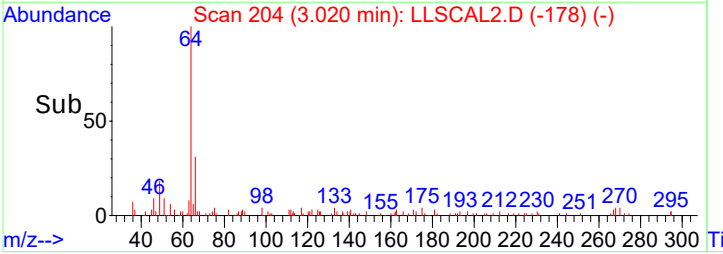
Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:08:57 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



After Manual Integration

RD 04/16/2025

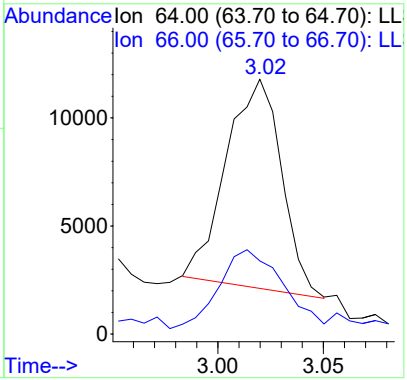


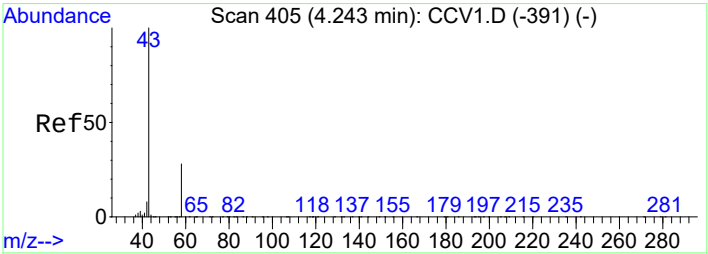



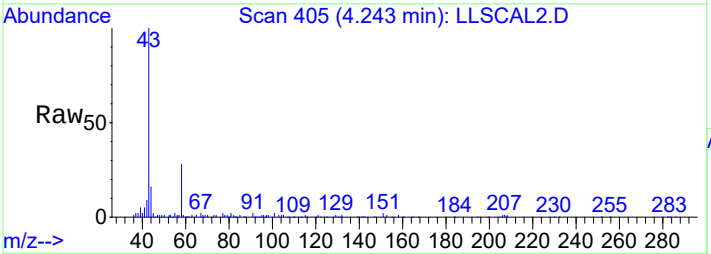

#6
Chloroethane
Concen: 0.00 mg/kg m
RT: 3.02 min Scan# 204
Delta R.T. 0.01 min
Lab File: LLSCAL2.D
Acq: 10 Apr 2025 11:00

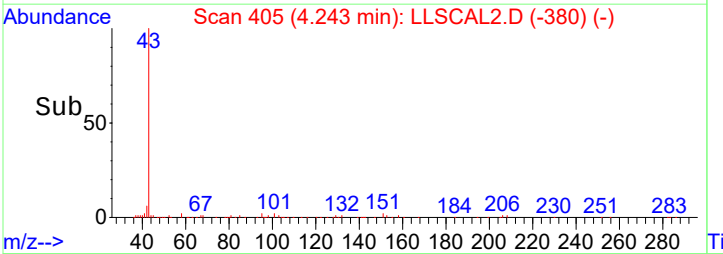
Tgt Ion: 64 Resp: 17415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 50.9 | 13.1 | 53.1 |



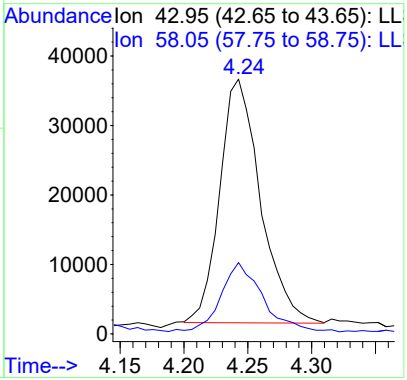



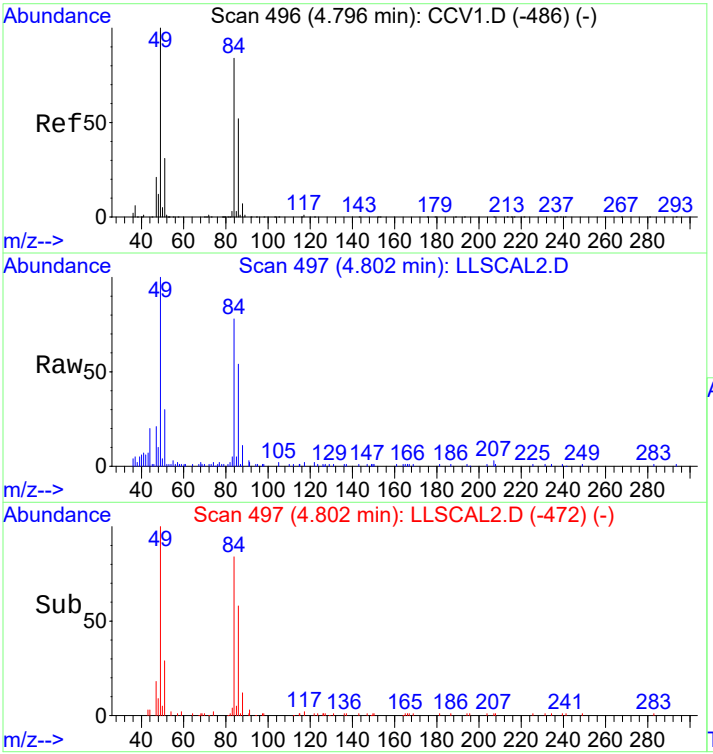

#15
Acetone
Concen: 0.02 mg/kg m
RT: 4.24 min Scan# 405
Delta R.T. 0.00 min
Lab File: LLSCAL2.D
Acq: 10 Apr 2025 11:00

Tgt Ion: 43 Resp: 77941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.9 | 8.8 | 48.8 |



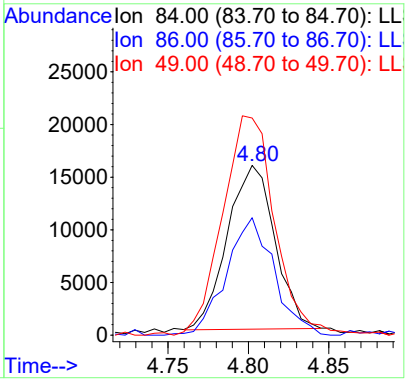

DGS 04/17/2025




#20
Methylchlorid
Concen: 0.00 mg/kg m
RT: 4.80 min Scan# 497
Delta R.T. 0.00 min
Lab File: LLSCAL2.D
Acq: 10 Apr 2025 11:00

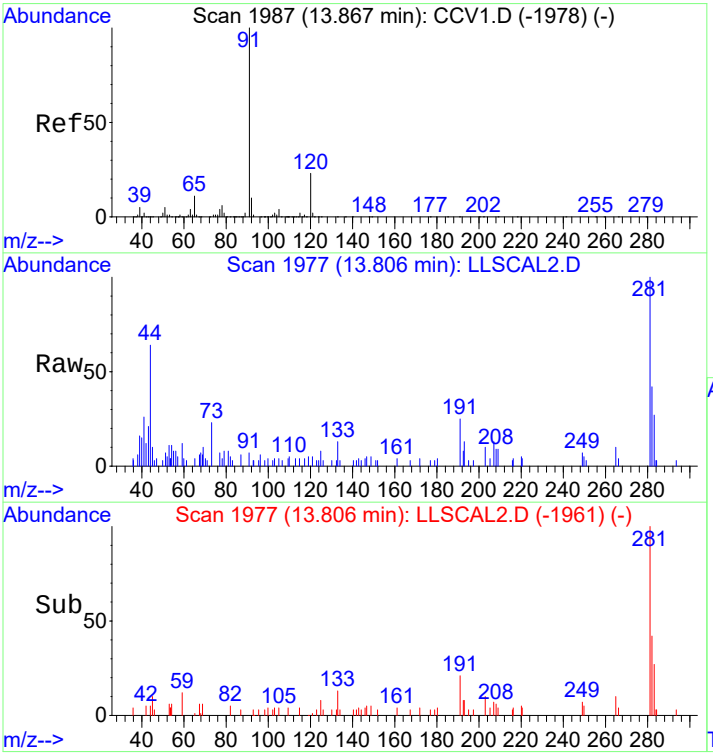
Tgt Ion: 84 Resp: 32128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 71.5 | 44.6 | 84.6 |
| 49 | 147.6 | 103.4 | 143.4# |




After Manual Integration

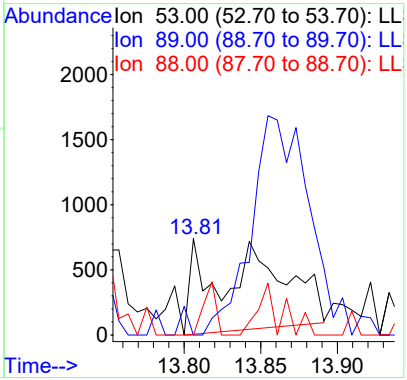
RD 04/16/2025



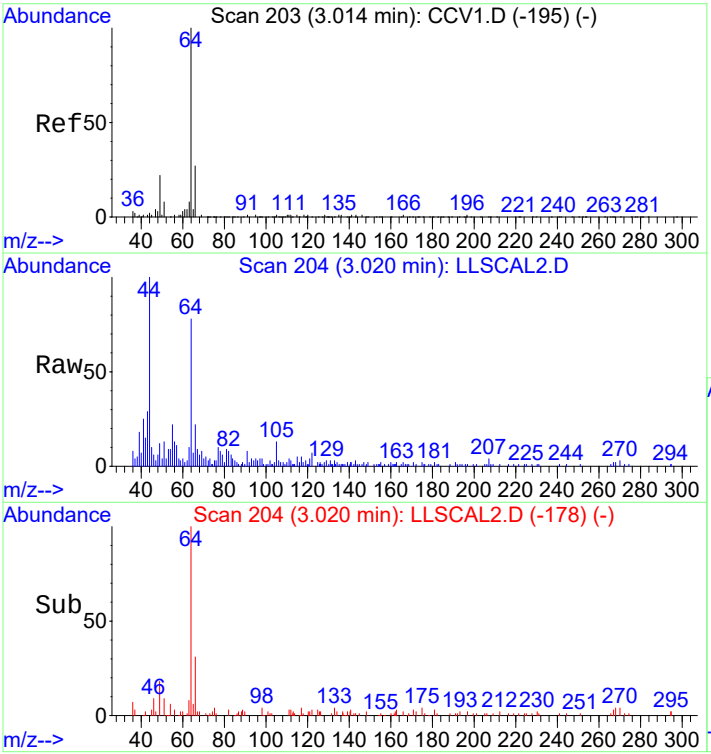

#86
14dichloro2butene
Concen: 0.00 mg/kg m
RT: 13.81 min Scan# 1977
Delta R.T. -0.05 min
Lab File: LLSCAL2.D
Acq: 10 Apr 2025 11:00

Tgt Ion: 53 Resp: 2110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 89 | 213.8 | 533.8 | 573.8# |
| 88 | 0.0 | 0.0 | 20.0 |



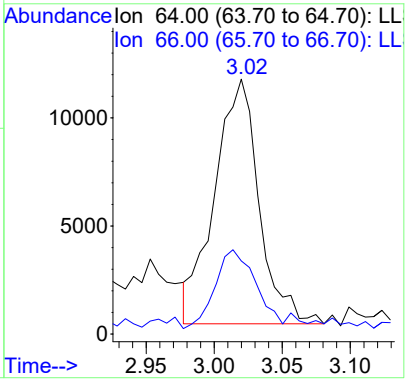

JGS 04/17/2025




#6
Chloroethane
Concen: 0.00 mg/kg
RT: 3.02 min Scan# 204
Delta R.T. 0.01 min
Lab File: LLSCAL2.D
Acq: 10 Apr 2025 11:00

Tgt Ion: 64 Resp: 25805

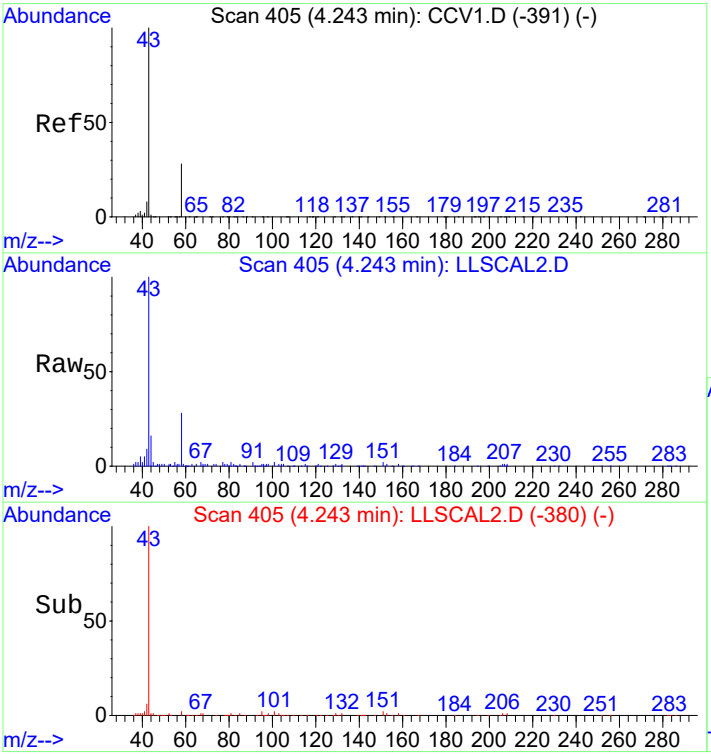
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.3 | 13.1 | 53.1 |




Before Manual Integration

RO 04/16/2025

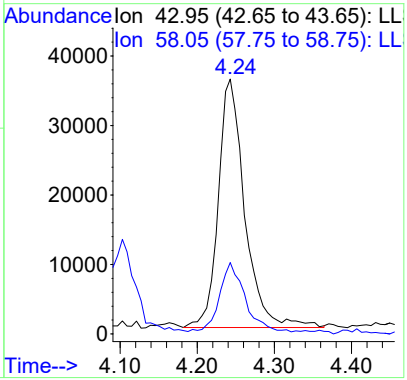
REASON # 2



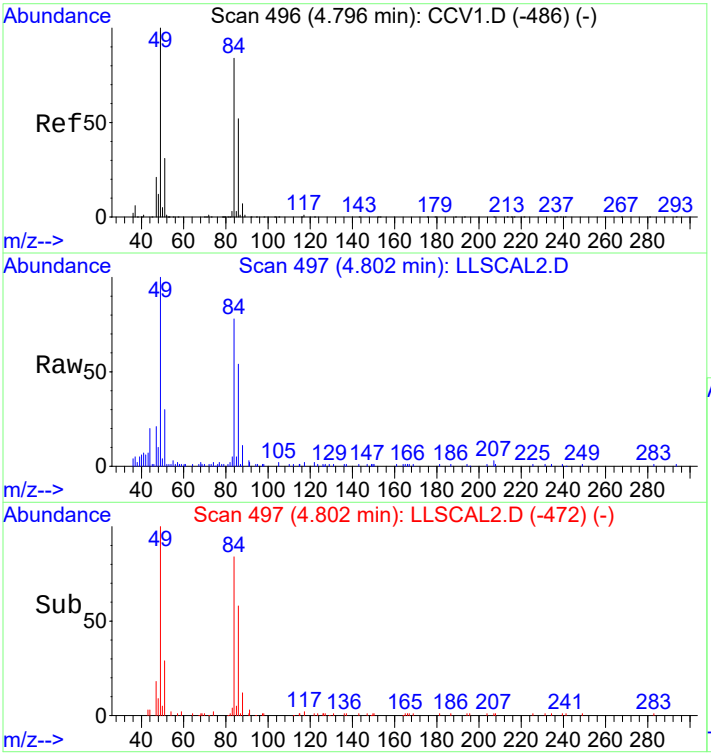

#15
Acetone
Concen: 0.02 mg/kg
RT: 4.24 min Scan# 405
Delta R.T. 0.00 min
Lab File: LLSCAL2.D
Acq: 10 Apr 2025 11:00

Tgt Ion: 43 Resp: 85222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.5 | 8.8 | 48.8 |



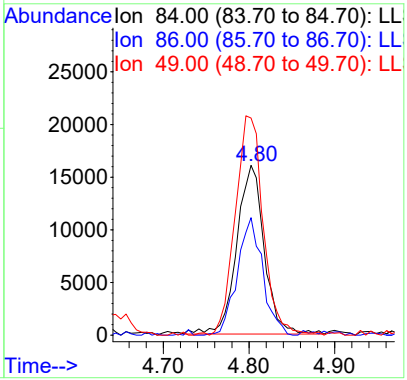

REASON # 2




#20
Methylchlorid
Concen: 0.00 mg/kg
RT: 4.80 min Scan# 497
Delta R.T. 0.00 min
Lab File: LLSCAL2.D
Acq: 10 Apr 2025 11:00

Tgt Ion: 84 Resp: 35858

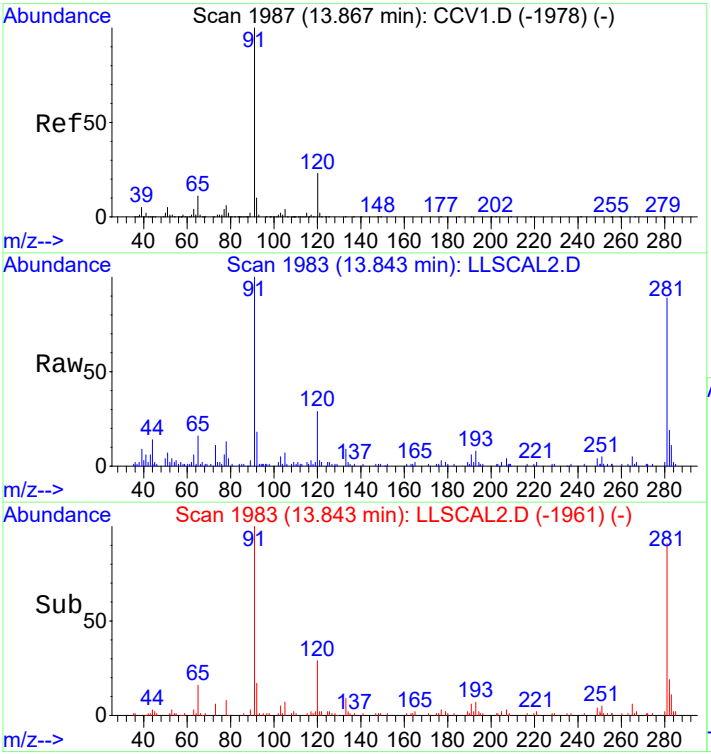
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 64.1 | 44.6 | 84.6 |
| 49 | 132.2 | 103.4 | 143.4 |




Before Manual Integration

RD 04/16/2025

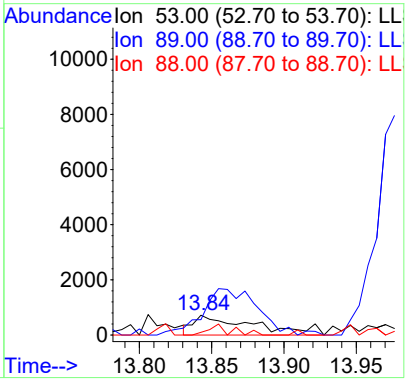
REASON # 2




#86
14dichloro2butene
Concen: 0.00 mg/kg
RT: 13.84 min Scan# 1983
Delta R.T. -0.02 min
Lab File: LLSCAL2.D
Acq: 10 Apr 2025 11:00

Tgt Ion: 53 Resp: 2047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 89 | 220.4 | 533.8 | 573.8# |
| 88 | 0.0 | 0.0 | 20.0 |




REASON # 2

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL3.D Vial: 6
Acq On : 10 Apr 2025 11:30 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 3 Inst : VMS4
Misc : 0.005/0.050 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:52:24 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 971124 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 832296 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 423096 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 264389 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 51560 | 0.021 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 105 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1010181 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 417354 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 76568 | 0.0051 | mg/kg | 98 |
| 3) Chloromethan | 2.20 | 50 | 82237 | 0.0052 | mg/kg | 97 |
| 4) VinylChlorid | 2.36 | 62 | 83516 | 0.0051 | mg/kg | 93 |
| 5) Bromomethane | 2.86 | 94 | 53398 | 0.0048 | mg/kg | 98 |
| 6) Chloroethane | 3.02 | 64 | 53762 | 0.0058 | mg/kg | 93 |
| 7) dichloroflmethane | 3.33 | 67 | 106546 | 0.0051 | mg/kg | 99 |
| 8) Trichlorofma | 3.42 | 101 | 106158 | 0.0051 | mg/kg | 98 |
| 9) Ethylether | 3.88 | 59 | 47505 | 0.0052 | mg/kg | 96 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 68063 | 0.0053 | mg/kg | 96 |
| 11) propyleneoxide | 4.10 | 58 | 83732 | 0.0500 | mg/kg | 97 |
| 12) Acrolein | 4.01 | 56 | 43073 | 0.0235 | mg/kg | 94 |
| 13) 11dichlorthe | 4.15 | 96 | 57414 | 0.0051 | mg/kg | 96 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 105191 | 0.0102 | mg/kg | 98 |
| 15) Acetone | 4.24 | 43 | 206310 | 0.0544 | mg/kg | 99 |
| 16) Iodomethane | 4.33 | 142 | 110644 | 0.0090 | mg/kg | 98 |
| 17) Carbon Dislf | 4.43 | 76 | 296038 | 0.0102 | mg/kg | 97 |
| 18) allylchloride | 4.64 | 41 | 177016 | 0.0104 | mg/kg | 98 |
| 19) methylacetate | 4.71 | 74 | 17506 | 0.0046 | mg/kg | 99 |
| 20) Methylchlorid | 4.80 | 84 | 75560 | 0.0052 | mg/kg | 98 |
| 21) Acrylonitrile | 5.11 | 53 | 71344 | 0.0255 | mg/kg | 97 |
| 22) t12dichlorte | 5.19 | 96 | 68175 | 0.0053 | mg/kg | 97 |
| 23) tbutylalcohol | 5.05 | 59 | 159628 | 0.2501 | mg/kg | 92 |
| 24) MtBE | 5.25 | 73 | 88785 | 0.0049 | mg/kg | 96 |
| 25) Hexane | 5.59 | 57 | 148828 | 0.0101 | mg/kg | 96 |
| 26) 11dichlorota | 5.71 | 63 | 117029 | 0.0052 | mg/kg | 99 |
| 27) Vinylacetate | 5.81 | 43 | 1129243 | 0.0559 | mg/kg | 99 |
| 28) chloroprene | 5.85 | 53 | 184006 | 0.0102 | mg/kg | 99 |
| 29) Diisopether | 5.89 | 45 | 181294 | 0.0050 | mg/kg# | 99 |
| 30) ETBE | 6.34 | 59 | 28454 | 0.0054 | mg/kg | 97 |
| 31) 22dichloropr | 6.46 | 77 | 77343 | 0.0049 | mg/kg | 95 |
| 32) c12dichlorte | 6.46 | 96 | 73761 | 0.0053 | mg/kg | 97 |
| 33) 2Butanone | 6.49 | 72 | 60846 | 0.0525 | mg/kg | 100 |
| 34) propionitrile | 6.51 | 54 | 59833 | 0.0510 | mg/kg | 99 |
| 35) Ethylacetate | 6.60 | 88 | 5403 | 0.0248 | mg/kg# | 83 |
| 36) methacrylonitrile | 6.72 | 67 | 38326 | 0.0103 | mg/kg | 99 |
| 37) Bromochlorma | 6.74 | 128 | 33534 | 0.0054 | mg/kg | 93 |
| 38) Tetrahydofur | 6.87 | 42 | 129740 | 0.0509 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL3.D Vial: 6
Acq On : 10 Apr 2025 11:30 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 3 Inst : VMS4
Misc : 0.005/0.050 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:52:24 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 120452 | 0.0051 mg/kg | 95 |
| 40) | 111trichlota | 7.10 | 97 | 108888 | 0.0052 mg/kg | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 92015 | 0.0050 mg/kg | 99 |
| 43) | Carbtetraclo | 7.32 | 119 | 93548 | 0.0051 mg/kg | 100 |
| 44) | 11dicloprope | 7.30 | 110 | 31729 | 0.0052 mg/kg | 99 |
| 46) | Benzene | 7.56 | 78 | 253425 | 0.0052 mg/kg | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 87107 | 0.0052 mg/kg | 98 |
| 48) | TAME | 7.74 | 73 | 11391 | 0.0056 mg/kg | 79 |
| 49) | trichloroete | 8.37 | 95 | 68437 | 0.0050 mg/kg | 97 |
| 50) | methylcyclohexane | 8.64 | 83 | 102670 | 0.0051 mg/kg | 99 |
| 51) | 12dicloropra | 8.63 | 63 | 66965 | 0.0052 mg/kg | 91 |
| 52) | 23dicl1propene | 8.68 | 75 | 102024 | 0.0050 mg/kg | 98 |
| 53) | Dibromometha | 8.77 | 93 | 39235 | 0.0051 mg/kg | 97 |
| 54) | methylmethacrylate | 8.80 | 69 | 35778 | 0.0053 mg/kg | 94 |
| 55) | 14dioxane | 8.84 | 88 | 27157 | 0.2685 mg/kg | 99 |
| 56) | Bromodiclrma | 8.96 | 83 | 93159 | 0.0050 mg/kg | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 158675 | 0.0516 mg/kg | 99 |
| 58) | c13dicloproe | 9.55 | 75 | 104219 | 0.0051 mg/kg | 100 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 447354 | 0.0513 mg/kg | 98 |
| 61) | Toluene | 10.00 | 92 | 167953 | 0.0052 mg/kg | 99 |
| 62) | t13Dicloprop | 10.26 | 75 | 86730 | 0.0052 mg/kg | 97 |
| 63) | ethylmethacrylate | 10.42 | 69 | 134225 | 0.0102 mg/kg | 99 |
| 64) | 112Triclotha | 10.50 | 83 | 45623 | 0.0051 mg/kg | 97 |
| 65) | Tetrachlorte | 10.75 | 166 | 73943 | 0.0052 mg/kg | 98 |
| 66) | 13Diclorpropa | 10.72 | 76 | 88970 | 0.0051 mg/kg | 97 |
| 68) | 2Hexanone | 10.85 | 43 | 342260 | 0.0516 mg/kg | 98 |
| 69) | Clorodibrmta | 11.03 | 129 | 69958 | 0.0051 mg/kg | 97 |
| 70) | 12Dibrometha | 11.18 | 107 | 56115 | 0.0049 mg/kg | 99 |
| 71) | Chlorobenzen | 11.88 | 112 | 184443 | 0.0050 mg/kg | 97 |
| 72) | 1Clhexane | 11.85 | 91 | 88926 | 0.0049 mg/kg | 93 |
| 73) | 1112Tetclota | 11.98 | 131 | 69561 | 0.0050 mg/kg | 96 |
| 74) | Ethylbenzene | 12.04 | 91 | 329671 | 0.0051 mg/kg | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 245382 | 0.0101 mg/kg | 98 |
| 76) | o-Xylene | 12.75 | 106 | 118752 | 0.0050 mg/kg | 96 |
| 77) | Styrene | 12.76 | 104 | 192348 | 0.0049 mg/kg | 99 |
| 78) | Bromoform | 12.99 | 173 | 39800 | 0.0049 mg/kg | 98 |
| 79) | Isopropylben | 13.28 | 105 | 314170 | 0.0051 mg/kg | 100 |
| 81) | cyclohexanone | 13.38 | 55 | 105699 | 0.1010 mg/kg | 99 |
| 83) | Bromobenzene | 13.70 | 156 | 81534 | 0.0051 mg/kg | 97 |
| 84) | 1122Tetrclta | 13.65 | 83 | 66619 | 0.0050 mg/kg | 97 |
| 85) | 123Triclproa | 13.71 | 75 | 68421 | 0.0052 mg/kg | 96 |
| 86) | 14dichloro2butene | 13.86 | 53 | 2497 | 0.0049 mg/kg# | 68 |
| 87) | n-Propylbenz | 13.86 | 91 | 367835 | 0.0052 mg/kg | 100 |
| 88) | 2chlorotolue | 13.98 | 91 | 217560 | 0.0051 mg/kg | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 259834 | 0.0052 mg/kg | 96 |
| 90) | 135Trimebenz | 14.12 | 105 | 260517 | 0.0051 mg/kg | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 229511 | 0.0051 mg/kg | 98 |
| 92) | 124Trimetben | 14.66 | 105 | 263964 | 0.0052 mg/kg | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 321685 | 0.0051 mg/kg | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 141922 | 0.0051 mg/kg | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 278480 | 0.0051 mg/kg | 97 |
| 96) | 14dichlorobe | 15.19 | 146 | 145618 | 0.0052 mg/kg | 99 |
| 97) | 12dichlorobe | 15.73 | 146 | 130565 | 0.0051 mg/kg | 97 |
| 98) | nButylbenzen | 15.72 | 91 | 251982 | 0.0051 mg/kg | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 12448 | 0.0050 mg/kg | 98 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 107157 | 0.0052 mg/kg | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 93030 | 0.0051 mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL3.D Vial: 6
Acq On : 10 Apr 2025 11:30 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 3 Inst : VMS4
Misc : 0.005/0.050 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:52:24 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 55272 | 0.0048 | mg/kg | 95 |
| 103) | Naphthalene | 18.25 | 128 | 157719 | 0.0050 | mg/kg | 98 |
| 104) | 123Trichlben | 18.55 | 180 | 82367 | 0.0051 | mg/kg | 97 |

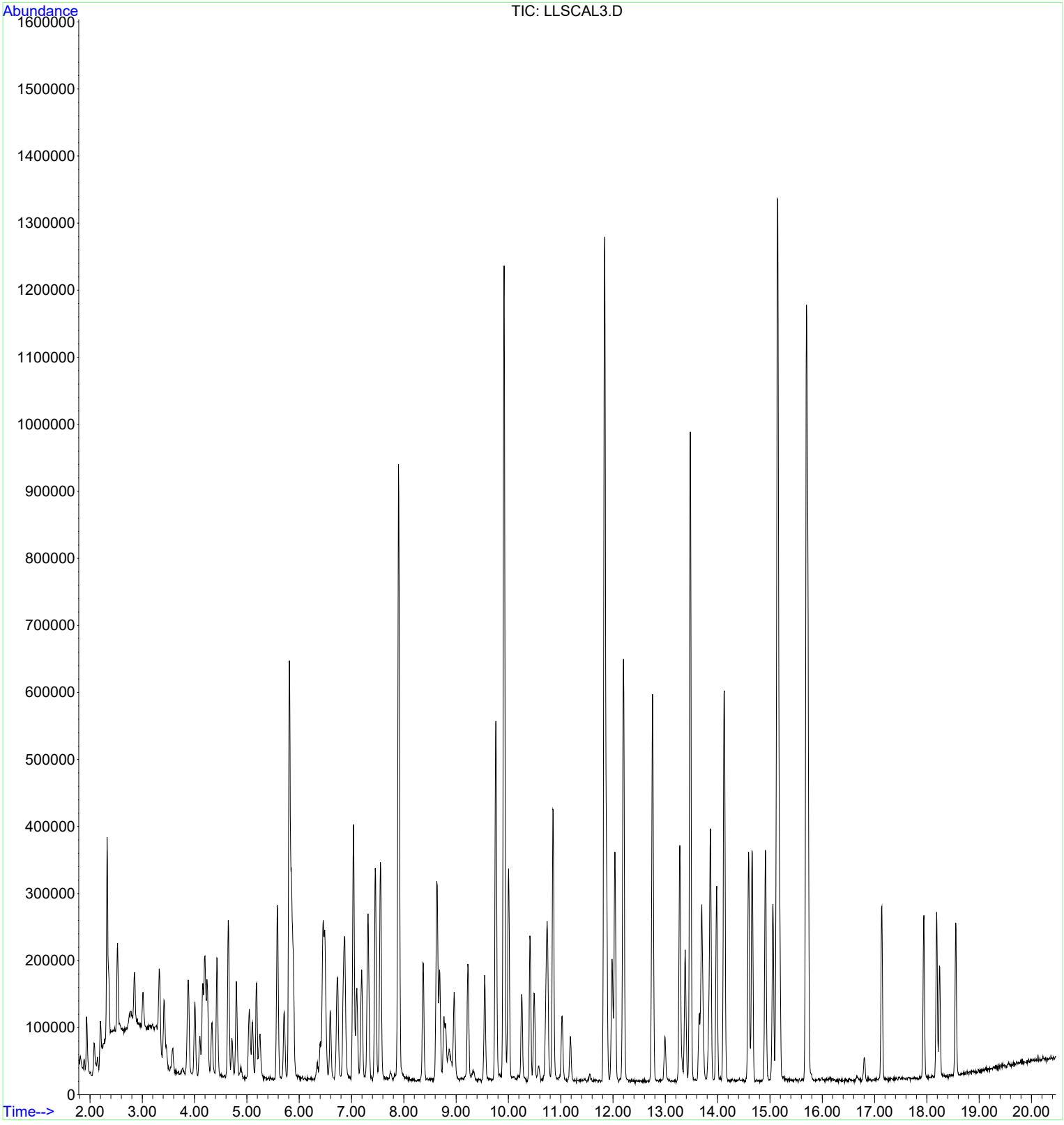
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL3.D Vial: 6
Acq On : 10 Apr 2025 11:30 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 3 Inst : VMS4
Misc : 0.005/0.050 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:52:24 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL4.D Vial: 7
Acq On : 10 Apr 2025 11:59 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 4 Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:53:06 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 981822 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 829850 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 424392 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 268435 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 51362 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1002671 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 415577 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 158249 | 0.0105 | mg/kg | 100 |
| 3) Chloromethan | 2.20 | 50 | 152854 | 0.0096 | mg/kg | 100 |
| 4) VinylChlorid | 2.36 | 62 | 163070 | 0.0099 | mg/kg | 100 |
| 5) Bromomethane | 2.85 | 94 | 103421 | 0.0092 | mg/kg | 100 |
| 6) Chloroethane | 3.01 | 64 | 100558 | 0.0107 | mg/kg | 100 |
| 7) dichloroflmethane | 3.32 | 67 | 211216 | 0.0099 | mg/kg | 99 |
| 8) Trichlorofma | 3.42 | 101 | 213534 | 0.0102 | mg/kg | 100 |
| 9) Ethylether | 3.88 | 59 | 91984 | 0.0100 | mg/kg | 100 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 125359 | 0.0097 | mg/kg | 100 |
| 11) propyleneoxide | 4.10 | 58 | 158981 | 0.0939 | mg/kg | 100 |
| 12) Acrolein | 4.01 | 56 | 88682 | 0.0478 | mg/kg | 100 |
| 13) 11dichlorthe | 4.16 | 96 | 111601 | 0.0098 | mg/kg | 100 |
| 14) Trichlorotfluoroeth | 4.20 | 101 | 214482 | 0.0206 | mg/kg | 100 |
| 15) Acetone | 4.24 | 43 | 372706 | 0.0972 | mg/kg | 100 |
| 16) Iodomethane | 4.33 | 142 | 226241 | 0.0183 | mg/kg | 100 |
| 17) Carbon Dislf | 4.43 | 76 | 583022 | 0.0198 | mg/kg | 100 |
| 18) allylchloride | 4.64 | 41 | 331499 | 0.0193 | mg/kg | 100 |
| 19) methylacetate | 4.72 | 74 | 36482 | 0.0096 | mg/kg | 100 |
| 20) Methylchlorid | 4.80 | 84 | 143445 | 0.0104 | mg/kg | 100 |
| 21) Acrylonitrile | 5.11 | 53 | 139626 | 0.0493 | mg/kg | 100 |
| 22) t12dichlorte | 5.19 | 96 | 130330 | 0.0100 | mg/kg | 100 |
| 23) tbutylalcohol | 5.05 | 59 | 296714 | 0.4598 | mg/kg | 100 |
| 24) MtBE | 5.25 | 73 | 170342 | 0.0093 | mg/kg | 100 |
| 25) Hexane | 5.58 | 57 | 315266 | 0.0211 | mg/kg | 100 |
| 26) 11dichlorota | 5.71 | 63 | 220807 | 0.0097 | mg/kg | 100 |
| 27) Vinylacetate | 5.81 | 43 | 2136638 | 0.1047 | mg/kg | 100 |
| 28) chloroprene | 5.85 | 53 | 365274 | 0.0199 | mg/kg | 100 |
| 29) Diisopether | 5.88 | 45 | 366024 | 0.0100 | mg/kg# | 100 |
| 30) ETBE | 6.34 | 59 | 51643 | 0.0096 | mg/kg | 100 |
| 31) 22dichloropr | 6.46 | 77 | 153596 | 0.0096 | mg/kg | 100 |
| 32) c12dichlorte | 6.45 | 96 | 136985 | 0.0098 | mg/kg | 100 |
| 33) 2Butanone | 6.49 | 72 | 115409 | 0.0984 | mg/kg | 100 |
| 34) propionitrile | 6.51 | 54 | 113001 | 0.0953 | mg/kg | 100 |
| 35) Ethylacetate | 6.60 | 88 | 11055 | 0.0502 | mg/kg | 100 |
| 36) methacrylonitrile | 6.72 | 67 | 71384 | 0.0190 | mg/kg | 100 |
| 37) Bromochlorma | 6.74 | 128 | 62432 | 0.0099 | mg/kg | 100 |
| 38) Tetrahydofur | 6.86 | 42 | 250491 | 0.0973 | mg/kg | 100 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL4.D Vial: 7
Acq On : 10 Apr 2025 11:59 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 4 Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:53:06 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 237158 | 0.0099 | mg/kg | 100 |
| 40) | 111trichlota | 7.10 | 97 | 211935 | 0.0100 | mg/kg | 100 |
| 42) | Cyclohexane | 7.19 | 56 | 191741 | 0.0104 | mg/kg | 100 |
| 43) | Carbtetraclo | 7.33 | 119 | 186570 | 0.0101 | mg/kg | 100 |
| 44) | 11dicloprope | 7.31 | 110 | 61891 | 0.0099 | mg/kg | 100 |
| 46) | Benzene | 7.56 | 78 | 485383 | 0.0098 | mg/kg | 100 |
| 47) | 12dichlorota | 7.55 | 62 | 172524 | 0.0101 | mg/kg | 100 |
| 48) | TAME | 7.75 | 73 | 21067 | 0.0102 | mg/kg | 100 |
| 49) | trichloroete | 8.37 | 95 | 137728 | 0.0100 | mg/kg | 100 |
| 50) | methylcyclohexane | 8.64 | 83 | 210197 | 0.0104 | mg/kg | 100 |
| 51) | 12dicloropra | 8.63 | 63 | 129902 | 0.0100 | mg/kg | 100 |
| 52) | 23dicl1propene | 8.69 | 75 | 204949 | 0.0100 | mg/kg | 100 |
| 53) | Dibromometha | 8.76 | 93 | 79412 | 0.0102 | mg/kg | 100 |
| 54) | methylmethacrylate | 8.81 | 69 | 67859 | 0.0099 | mg/kg | 100 |
| 55) | 14dioxane | 8.84 | 88 | 48828 | 0.4775 | mg/kg | 99 |
| 56) | Bromodiclrma | 8.96 | 83 | 185811 | 0.0099 | mg/kg | 100 |
| 57) | 2Nitropropane | 9.23 | 43 | 309020 | 0.0995 | mg/kg | 100 |
| 58) | c13dicloproe | 9.55 | 75 | 202911 | 0.0099 | mg/kg | 100 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 898746 | 0.1020 | mg/kg | 100 |
| 61) | Toluene | 10.00 | 92 | 328575 | 0.0101 | mg/kg | 100 |
| 62) | t13Dicloprop | 10.25 | 75 | 165759 | 0.0098 | mg/kg | 100 |
| 63) | ethylmethacrylate | 10.41 | 69 | 270627 | 0.0203 | mg/kg | 100 |
| 64) | 112Triclotha | 10.50 | 83 | 92454 | 0.0103 | mg/kg | 100 |
| 65) | Tetrachlorte | 10.75 | 166 | 142311 | 0.0099 | mg/kg | 100 |
| 66) | 13Diclorpropa | 10.72 | 76 | 174724 | 0.0100 | mg/kg | 100 |
| 68) | 2Hexanone | 10.86 | 43 | 646753 | 0.0979 | mg/kg | 100 |
| 69) | Clorodibrmta | 11.03 | 129 | 133494 | 0.0098 | mg/kg | 100 |
| 70) | 12Dibrometha | 11.18 | 107 | 113146 | 0.0099 | mg/kg | 100 |
| 71) | Chlorobenzen | 11.88 | 112 | 364391 | 0.0099 | mg/kg | 100 |
| 72) | 1Clhexane | 11.85 | 91 | 178953 | 0.0099 | mg/kg | 100 |
| 73) | 1112Tetclota | 11.98 | 131 | 134858 | 0.0098 | mg/kg | 100 |
| 74) | Ethylbenzene | 12.04 | 91 | 632585 | 0.0099 | mg/kg | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 478622 | 0.0198 | mg/kg | 100 |
| 76) | o-Xylene | 12.75 | 106 | 234718 | 0.0099 | mg/kg | 100 |
| 77) | Styrene | 12.76 | 104 | 386313 | 0.0099 | mg/kg | 100 |
| 78) | Bromoform | 13.00 | 173 | 82509 | 0.0101 | mg/kg | 100 |
| 79) | Isopropylben | 13.28 | 105 | 610363 | 0.0100 | mg/kg | 100 |
| 81) | cyclohexanone | 13.37 | 55 | 198296 | 0.1889 | mg/kg | 100 |
| 83) | Bromobenzene | 13.69 | 156 | 162847 | 0.0101 | mg/kg | 100 |
| 84) | 1122Tetrclta | 13.65 | 83 | 135143 | 0.0100 | mg/kg | 100 |
| 85) | 123Triclproa | 13.71 | 75 | 127712 | 0.0096 | mg/kg | 100 |
| 86) | 14dichloro2butene | 13.86 | 53 | 3770 | 0.0085 | mg/kg# | 100 |
| 87) | n-Propylbenz | 13.87 | 91 | 720778 | 0.0101 | mg/kg | 100 |
| 88) | 2chlorotolue | 13.98 | 91 | 427221 | 0.0099 | mg/kg | 100 |
| 89) | 4chlorotolue | 14.13 | 91 | 501288 | 0.0099 | mg/kg | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 509214 | 0.0099 | mg/kg | 100 |
| 91) | tbutylbenzen | 14.60 | 119 | 450814 | 0.0100 | mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 508315 | 0.0099 | mg/kg | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 633608 | 0.0101 | mg/kg | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 276541 | 0.0099 | mg/kg | 100 |
| 95) | pIsopropylto | 15.13 | 119 | 545547 | 0.0100 | mg/kg | 100 |
| 96) | 14dichlorobe | 15.19 | 146 | 278713 | 0.0098 | mg/kg | 100 |
| 97) | 12dichlorobe | 15.73 | 146 | 255365 | 0.0099 | mg/kg | 100 |
| 98) | nButylbenzen | 15.73 | 91 | 502240 | 0.0101 | mg/kg | 100 |
| 99) | 12dibromo3cl | 16.81 | 157 | 24758 | 0.0100 | mg/kg | 100 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 204024 | 0.0098 | mg/kg | 100 |
| 101) | 124Trichlobe | 17.94 | 180 | 179963 | 0.0099 | mg/kg | 100 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL4.D Vial: 7
Acq On : 10 Apr 2025 11:59 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 4 Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:53:06 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 113798 | 0.0099 | mg/kg | 100 |
| 103) | Naphthalene | 18.24 | 128 | 302772 | 0.0096 | mg/kg | 100 |
| 104) | 123Trichlben | 18.55 | 180 | 157623 | 0.0097 | mg/kg | 100 |

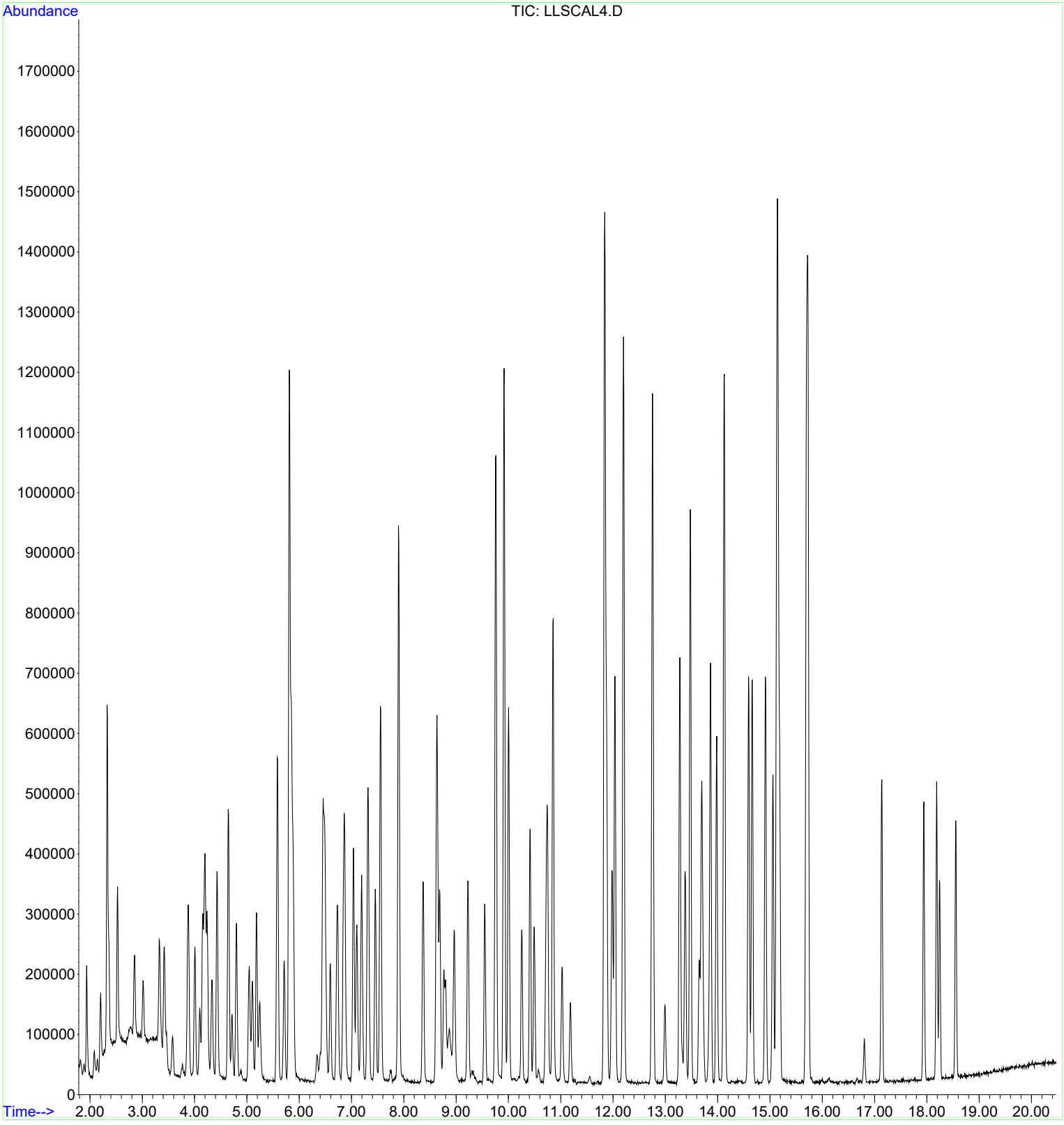
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL4.D Vial: 7
Acq On : 10 Apr 2025 11:59 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 4 Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:53:06 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL5.D Vial: 8
Acq On : 10 Apr 2025 12:28 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 5 Inst : VMS4
Misc : 0.020/0.200 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:53:42 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 992518 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 826748 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 428736 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 265184 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 50015 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1008293 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 412703 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 308189 | 0.0202 | mg/kg | 98 |
| 3) Chloromethan | 2.20 | 50 | 308683 | 0.0191 | mg/kg | 100 |
| 4) VinylChlorid | 2.36 | 62 | 338565 | 0.0204 | mg/kg | 98 |
| 5) Bromomethane | 2.85 | 94 | 206676 | 0.0182 | mg/kg | 96 |
| 6) Chloroethane | 3.01 | 64 | 200201 | 0.0211 | mg/kg | 97 |
| 7) dichloroflmethane | 3.33 | 67 | 415088 | 0.0193 | mg/kg | 96 |
| 8) Trichlorofma | 3.42 | 101 | 426165 | 0.0202 | mg/kg | 98 |
| 9) Ethylether | 3.88 | 59 | 184419 | 0.0198 | mg/kg | 98 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 257277 | 0.0197 | mg/kg | 99 |
| 11) propyleneoxide | 4.10 | 58 | 340580 | 0.1991 | mg/kg | 96 |
| 12) Acrolein | 4.01 | 56 | 183116 | 0.0977 | mg/kg | 98 |
| 13) 11dichlorthe | 4.15 | 96 | 226964 | 0.0197 | mg/kg | 99 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 432166 | 0.0411 | mg/kg | 99 |
| 15) Acetone | 4.24 | 43 | 778844 | 0.2009 | mg/kg | 99 |
| 16) Iodomethane | 4.33 | 142 | 517333 | 0.0414 | mg/kg | 100 |
| 17) Carbon Dislf | 4.43 | 76 | 1188505 | 0.0400 | mg/kg | 100 |
| 18) allylchloride | 4.64 | 41 | 675588 | 0.0390 | mg/kg | 99 |
| 19) methylacetate | 4.72 | 74 | 75164 | 0.0195 | mg/kg | 98 |
| 20) Methylchlorid | 4.80 | 84 | 264626 | 0.0198 | mg/kg | 96 |
| 21) Acrylonitrile | 5.11 | 53 | 281593 | 0.0984 | mg/kg | 98 |
| 22) t12dichlorte | 5.19 | 96 | 258802 | 0.0197 | mg/kg | 95 |
| 23) tbutylalcohol | 5.04 | 59 | 662181 | 1.0151 | mg/kg | 98 |
| 24) MtBE | 5.25 | 73 | 371916 | 0.0200 | mg/kg | 99 |
| 25) Hexane | 5.58 | 57 | 606794 | 0.0402 | mg/kg | 98 |
| 26) 11dichlorota | 5.72 | 63 | 449134 | 0.0195 | mg/kg | 99 |
| 27) Vinylacetate | 5.81 | 43 | 4302091 | 0.2086 | mg/kg | 99 |
| 28) chloroprene | 5.85 | 53 | 745976 | 0.0403 | mg/kg | 99 |
| 29) Diisopether | 5.88 | 45 | 745357 | 0.0202 | mg/kg# | 100 |
| 30) ETBE | 6.34 | 59 | 126107 | 0.0211 | mg/kg | 99 |
| 31) 22dichloropr | 6.46 | 77 | 316809 | 0.0195 | mg/kg | 99 |
| 32) c12dichlorte | 6.45 | 96 | 278511 | 0.0197 | mg/kg | 99 |
| 33) 2Butanone | 6.49 | 72 | 239115 | 0.2017 | mg/kg | 98 |
| 34) propionitrile | 6.51 | 54 | 235386 | 0.1964 | mg/kg | 97 |
| 35) Ethylacetate | 6.60 | 88 | 22818 | 0.1025 | mg/kg# | 92 |
| 36) methacrylonitrile | 6.72 | 67 | 152442 | 0.0401 | mg/kg | 98 |
| 37) Bromochlorma | 6.74 | 128 | 127128 | 0.0199 | mg/kg | 99 |
| 38) Tetrahydofur | 6.87 | 42 | 526833 | 0.2023 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL5.D Vial: 8
Acq On : 10 Apr 2025 12:28 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 5 Inst : VMS4
Misc : 0.020/0.200 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:53:42 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 475174 | 0.0196 | mg/kg | 98 |
| 40) | 111trichlota | 7.10 | 97 | 430074 | 0.0200 | mg/kg | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 385001 | 0.0206 | mg/kg | 99 |
| 43) | Carbtetraclo | 7.32 | 119 | 376944 | 0.0203 | mg/kg | 99 |
| 44) | 11dicloprope | 7.32 | 110 | 122715 | 0.0195 | mg/kg | 98 |
| 46) | Benzene | 7.56 | 78 | 980544 | 0.0196 | mg/kg | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 340857 | 0.0198 | mg/kg | 97 |
| 48) | TAME | 7.75 | 73 | 54857 | 0.0221 | mg/kg | 97 |
| 49) | trichloroete | 8.37 | 95 | 279704 | 0.0201 | mg/kg | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 421824 | 0.0206 | mg/kg | 99 |
| 51) | 12dicloropra | 8.63 | 63 | 263871 | 0.0200 | mg/kg | 100 |
| 52) | 23dicl1propene | 8.68 | 75 | 415772 | 0.0200 | mg/kg | 98 |
| 53) | Dibromometha | 8.76 | 93 | 155695 | 0.0198 | mg/kg | 98 |
| 54) | methylmethacrylate | 8.81 | 69 | 143275 | 0.0206 | mg/kg | 97 |
| 55) | 14dioxane | 8.84 | 88 | 102018 | 0.9868 | mg/kg | 97 |
| 56) | Bromodiclrma | 8.96 | 83 | 364969 | 0.0193 | mg/kg | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 627576 | 0.1998 | mg/kg | 100 |
| 58) | c13dicloproe | 9.55 | 75 | 409752 | 0.0197 | mg/kg | 99 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 1804871 | 0.2027 | mg/kg | 99 |
| 61) | Toluene | 10.00 | 92 | 636659 | 0.0193 | mg/kg | 99 |
| 62) | t13Dicloprop | 10.25 | 75 | 340642 | 0.0198 | mg/kg | 97 |
| 63) | ethylmethacrylate | 10.41 | 69 | 542577 | 0.0402 | mg/kg | 98 |
| 64) | 112Triclotha | 10.50 | 83 | 180067 | 0.0198 | mg/kg | 98 |
| 65) | Tetrachlorte | 10.75 | 166 | 274930 | 0.0190 | mg/kg | 99 |
| 66) | 13Diclorpropa | 10.72 | 76 | 346344 | 0.0196 | mg/kg | 96 |
| 68) | 2Hexanone | 10.85 | 43 | 1351696 | 0.2053 | mg/kg | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 270845 | 0.0200 | mg/kg | 100 |
| 70) | 12Dibrometha | 11.18 | 107 | 220218 | 0.0194 | mg/kg | 96 |
| 71) | Chlorobenzen | 11.88 | 112 | 728689 | 0.0198 | mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 360747 | 0.0200 | mg/kg | 95 |
| 73) | 1112Tetclota | 11.98 | 131 | 273920 | 0.0200 | mg/kg | 99 |
| 74) | Ethylbenzene | 12.04 | 91 | 1258099 | 0.0197 | mg/kg | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 943271 | 0.0391 | mg/kg | 99 |
| 76) | o-Xylene | 12.75 | 106 | 464819 | 0.0196 | mg/kg | 99 |
| 77) | Styrene | 12.76 | 104 | 780133 | 0.0200 | mg/kg | 99 |
| 78) | Bromoform | 12.99 | 173 | 168643 | 0.0208 | mg/kg | 99 |
| 79) | Isopropylben | 13.28 | 105 | 1228361 | 0.0201 | mg/kg | 100 |
| 81) | cyclohexanone | 13.38 | 55 | 447388 | 0.4218 | mg/kg | 99 |
| 83) | Bromobenzene | 13.69 | 156 | 317784 | 0.0195 | mg/kg | 97 |
| 84) | 1122Tetrclta | 13.65 | 83 | 273608 | 0.0201 | mg/kg | 99 |
| 85) | 123Triclproa | 13.72 | 75 | 268355 | 0.0201 | mg/kg | 96 |
| 86) | 14dichloro2butene | 13.85 | 53 | 8054 | 0.0204 | mg/kg# | 93 |
| 87) | n-Propylbenz | 13.86 | 91 | 1446298 | 0.0201 | mg/kg | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 855390 | 0.0197 | mg/kg | 100 |
| 89) | 4chlorotolue | 14.13 | 91 | 1004900 | 0.0197 | mg/kg | 98 |
| 90) | 135Trimebenz | 14.12 | 105 | 1030788 | 0.0198 | mg/kg | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 889317 | 0.0196 | mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 1026952 | 0.0198 | mg/kg | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 1283480 | 0.0202 | mg/kg | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 553838 | 0.0196 | mg/kg | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 1101862 | 0.0200 | mg/kg | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 559069 | 0.0195 | mg/kg | 99 |
| 97) | 12dichlorobe | 15.73 | 146 | 513401 | 0.0198 | mg/kg | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 992634 | 0.0197 | mg/kg | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 49564 | 0.0197 | mg/kg | 96 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 404661 | 0.0193 | mg/kg | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 362955 | 0.0197 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL5.D Vial: 8
Acq On : 10 Apr 2025 12:28 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 5 Inst : VMS4
Misc : 0.020/0.200 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:53:42 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 231593 | 0.0200 | mg/kg | 98 |
| 103) | Naphthalene | 18.25 | 128 | 653289 | 0.0205 | mg/kg | 99 |
| 104) | 123Trichlben | 18.55 | 180 | 322830 | 0.0197 | mg/kg | 99 |

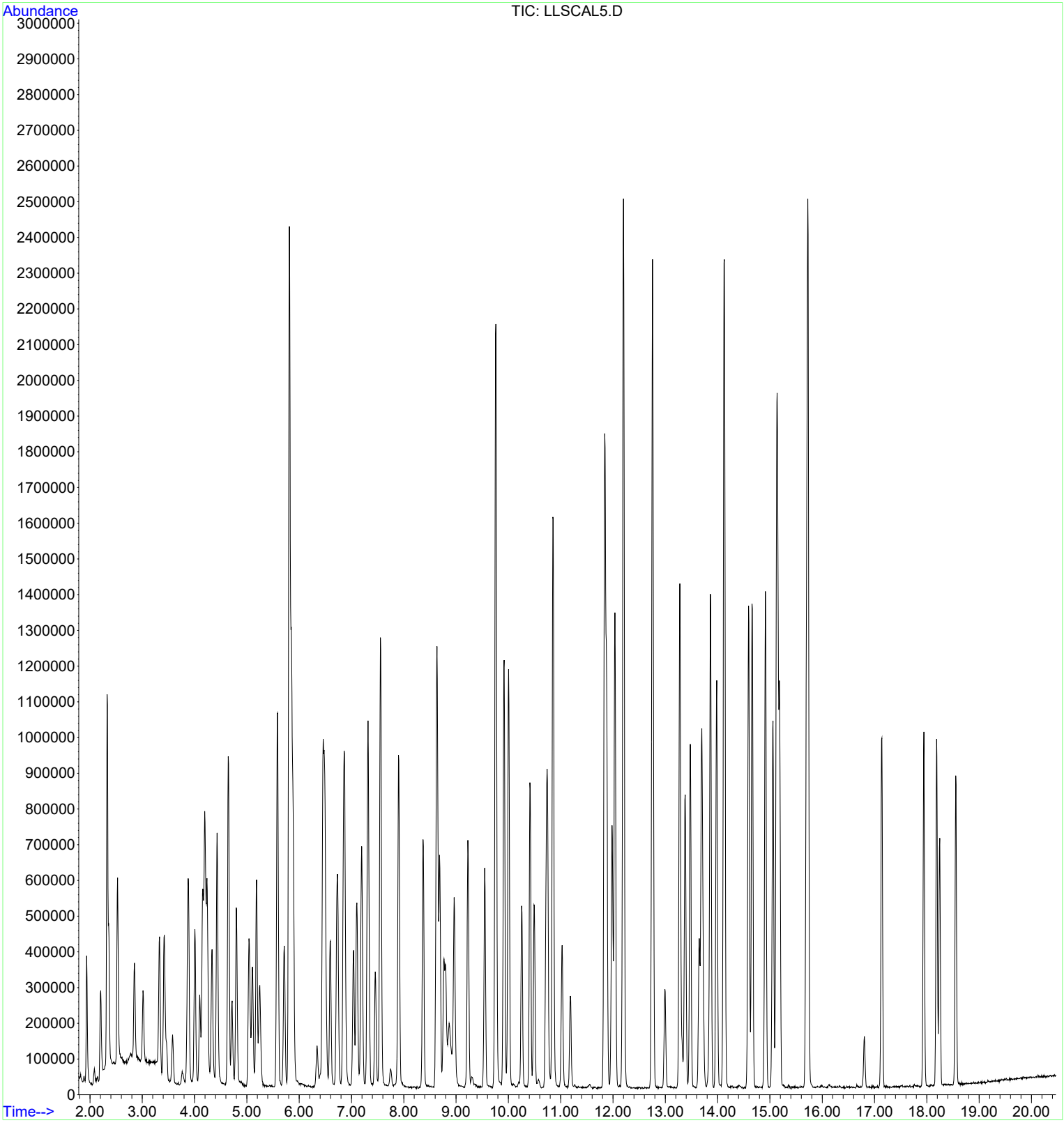
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL5.D Vial: 8
Acq On : 10 Apr 2025 12:28 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 5 Inst : VMS4
Misc : 0.020/0.200 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:53:42 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL6.D Vial: 9
Acq On : 10 Apr 2025 12:57 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 6 Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:54:14 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.91 | 96 | 1002977 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 810243 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 416201 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 263950 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 95 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 51093 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1013933 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 407399 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 465629 | 0.0302 | mg/kg | 99 |
| 3) Chloromethan | 2.20 | 50 | 469689 | 0.0287 | mg/kg | 99 |
| 4) VinylChlorid | 2.36 | 62 | 501161 | 0.0298 | mg/kg | 98 |
| 5) Bromomethane | 2.85 | 94 | 320912 | 0.0280 | mg/kg | 99 |
| 6) Chloroethane | 3.01 | 64 | 302628 | 0.0316 | mg/kg | 98 |
| 7) dichloroflmethane | 3.32 | 67 | 632550 | 0.0291 | mg/kg | 97 |
| 8) Trichlorofma | 3.42 | 101 | 650429 | 0.0306 | mg/kg | 99 |
| 9) Ethylether | 3.88 | 59 | 274171 | 0.0291 | mg/kg | 98 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 384670 | 0.0291 | mg/kg | 99 |
| 11) propyleneoxide | 4.10 | 58 | 515317 | 0.2981 | mg/kg | 96 |
| 12) Acrolein | 4.01 | 56 | 269868 | 0.1424 | mg/kg | 96 |
| 13) 11dichlorthe | 4.15 | 96 | 346470 | 0.0297 | mg/kg | 100 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 647036 | 0.0608 | mg/kg | 99 |
| 15) Acetone | 4.24 | 43 | 1123202 | 0.2866 | mg/kg | 99 |
| 16) Iodomethane | 4.33 | 142 | 839464 | 0.0664 | mg/kg | 98 |
| 17) Carbon Dislf | 4.43 | 76 | 1813943 | 0.0604 | mg/kg | 99 |
| 18) allylchloride | 4.64 | 41 | 1025518 | 0.0585 | mg/kg | 98 |
| 19) methylacetate | 4.71 | 74 | 115023 | 0.0295 | mg/kg | 96 |
| 20) Methylchlorid | 4.80 | 84 | 399155 | 0.0302 | mg/kg | 98 |
| 21) Acrylonitrile | 5.11 | 53 | 413549 | 0.1430 | mg/kg | 99 |
| 22) t12dichlorte | 5.19 | 96 | 389413 | 0.0294 | mg/kg | 96 |
| 23) tbutylalcohol | 5.04 | 59 | 959558 | 1.4556 | mg/kg | 100 |
| 24) MtBE | 5.24 | 73 | 553941 | 0.0295 | mg/kg | 98 |
| 25) Hexane | 5.59 | 57 | 894981 | 0.0587 | mg/kg | 97 |
| 26) 11dichlorota | 5.72 | 63 | 687373 | 0.0296 | mg/kg | 98 |
| 27) Vinylacetate | 5.81 | 43 | 5672696 | 0.2721 | mg/kg | 96 |
| 28) chloroprene | 5.85 | 53 | 1139564 | 0.0609 | mg/kg | 100 |
| 29) Diisopether | 5.88 | 45 | 1128480 | 0.0302 | mg/kg# | 100 |
| 30) ETBE | 6.34 | 59 | 185392 | 0.0287 | mg/kg | 99 |
| 31) 22dichloropr | 6.46 | 77 | 488367 | 0.0298 | mg/kg | 99 |
| 32) c12dichlorte | 6.45 | 96 | 422620 | 0.0296 | mg/kg | 99 |
| 33) 2Butanone | 6.49 | 72 | 346681 | 0.2894 | mg/kg | 97 |
| 34) propionitrile | 6.51 | 54 | 344444 | 0.2844 | mg/kg | 99 |
| 35) Ethylacetate | 6.59 | 88 | 34101 | 0.1515 | mg/kg | 94 |
| 36) methacrylonitrile | 6.72 | 67 | 226787 | 0.0591 | mg/kg | 99 |
| 37) Bromochlorma | 6.74 | 128 | 188544 | 0.0292 | mg/kg | 99 |
| 38) Tetrahydofur | 6.86 | 42 | 777999 | 0.2957 | mg/kg | 100 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL6.D Vial: 9
Acq On : 10 Apr 2025 12:57 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 6 Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:54:14 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 724555 | 0.0295 | mg/kg | 97 |
| 40) | 111trichlota | 7.10 | 97 | 643878 | 0.0296 | mg/kg | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 574717 | 0.0305 | mg/kg | 99 |
| 43) | Carbtetraclo | 7.33 | 119 | 571095 | 0.0304 | mg/kg | 99 |
| 44) | 11dicloprope | 7.31 | 110 | 183598 | 0.0289 | mg/kg | 97 |
| 46) | Benzene | 7.56 | 78 | 1493385 | 0.0295 | mg/kg | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 515716 | 0.0296 | mg/kg | 99 |
| 48) | TAME | 7.75 | 73 | 82995 | 0.0295 | mg/kg | 98 |
| 49) | trichloroete | 8.37 | 95 | 416186 | 0.0296 | mg/kg | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 625407 | 0.0302 | mg/kg | 99 |
| 51) | 12dicloropra | 8.62 | 63 | 400736 | 0.0301 | mg/kg | 94 |
| 52) | 23dicl1propene | 8.69 | 75 | 643995 | 0.0307 | mg/kg | 99 |
| 53) | Dibromometha | 8.77 | 93 | 235193 | 0.0296 | mg/kg | 97 |
| 54) | methylmethacrylate | 8.80 | 69 | 207020 | 0.0295 | mg/kg | 99 |
| 55) | 14dioxane | 8.84 | 88 | 152735 | 1.4620 | mg/kg | 98 |
| 56) | Bromodiclrma | 8.96 | 83 | 555324 | 0.0290 | mg/kg | 98 |
| 57) | 2Nitropropane | 9.23 | 43 | 927491 | 0.2922 | mg/kg | 100 |
| 58) | c13dicloproe | 9.55 | 75 | 623234 | 0.0297 | mg/kg | 100 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 2635320 | 0.2929 | mg/kg | 98 |
| 61) | Toluene | 10.00 | 92 | 967280 | 0.0291 | mg/kg | 99 |
| 62) | t13Dicloprop | 10.25 | 75 | 519334 | 0.0299 | mg/kg | 96 |
| 63) | ethylmethacrylate | 10.41 | 69 | 811279 | 0.0595 | mg/kg | 99 |
| 64) | 112Triclotha | 10.49 | 83 | 266776 | 0.0291 | mg/kg | 97 |
| 65) | Tetrachlorte | 10.75 | 166 | 415810 | 0.0284 | mg/kg | 98 |
| 66) | 13Diclorpropa | 10.72 | 76 | 519614 | 0.0291 | mg/kg | 98 |
| 68) | 2Hexanone | 10.85 | 43 | 1935659 | 0.3000 | mg/kg | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 400967 | 0.0302 | mg/kg | 98 |
| 70) | 12Dibrometha | 11.18 | 107 | 325721 | 0.0293 | mg/kg | 98 |
| 71) | Chlorobenzen | 11.88 | 112 | 1075555 | 0.0298 | mg/kg | 97 |
| 72) | 1Clhexane | 11.85 | 91 | 518007 | 0.0293 | mg/kg | 96 |
| 73) | 1112Tetclota | 11.98 | 131 | 407321 | 0.0303 | mg/kg | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 1852029 | 0.0296 | mg/kg | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 1397531 | 0.0591 | mg/kg | 99 |
| 76) | o-Xylene | 12.75 | 106 | 688616 | 0.0297 | mg/kg | 99 |
| 77) | Styrene | 12.76 | 104 | 1159870 | 0.0304 | mg/kg | 99 |
| 78) | Bromoform | 12.99 | 173 | 245217 | 0.0309 | mg/kg | 99 |
| 79) | Isopropylben | 13.28 | 105 | 1780092 | 0.0297 | mg/kg | 99 |
| 81) | cyclohexanone | 13.38 | 55 | 628906 | 0.6108 | mg/kg | 100 |
| 83) | Bromobenzene | 13.70 | 156 | 482507 | 0.0305 | mg/kg | 98 |
| 84) | 1122Tetrclta | 13.65 | 83 | 392289 | 0.0297 | mg/kg | 97 |
| 85) | 123Triclproa | 13.71 | 75 | 396323 | 0.0305 | mg/kg | 96 |
| 86) | 14dichloro2butene | 13.86 | 53 | 12138 | 0.0332 | mg/kg# | 84 |
| 87) | n-Propylbenz | 13.86 | 91 | 2101879 | 0.0300 | mg/kg | 100 |
| 88) | 2chlorotolue | 13.98 | 91 | 1260263 | 0.0299 | mg/kg | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 1471897 | 0.0297 | mg/kg | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 1509967 | 0.0299 | mg/kg | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 1308178 | 0.0297 | mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 1487275 | 0.0296 | mg/kg | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 1904988 | 0.0309 | mg/kg | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 815763 | 0.0298 | mg/kg | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 1605198 | 0.0300 | mg/kg | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 814558 | 0.0293 | mg/kg | 99 |
| 97) | 12dichlorobe | 15.72 | 146 | 760083 | 0.0302 | mg/kg | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 1484662 | 0.0304 | mg/kg | 100 |
| 99) | 12dibromo3cl | 16.80 | 157 | 76315 | 0.0313 | mg/kg | 98 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 618106 | 0.0304 | mg/kg | 98 |
| 101) | 124Trichlobe | 17.94 | 180 | 550517 | 0.0308 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL6.D Vial: 9
Acq On : 10 Apr 2025 12:57 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 6 Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:54:14 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 344775 | 0.0306 | mg/kg | 99 |
| 103) | Naphthalene | 18.25 | 128 | 980844 | 0.0316 | mg/kg | 99 |
| 104) | 123Trichlben | 18.55 | 180 | 481935 | 0.0303 | mg/kg | 99 |

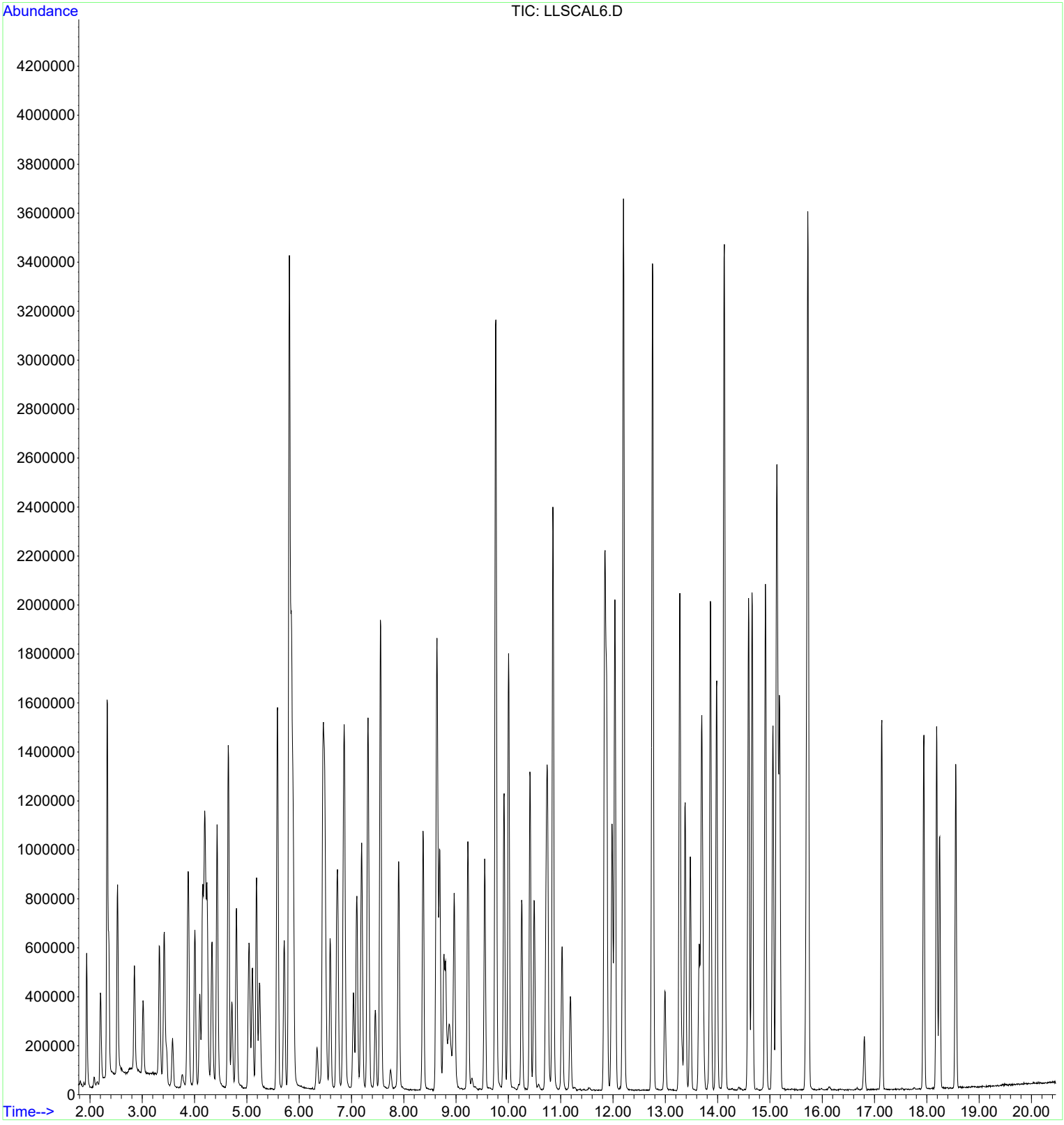
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL6.D Vial: 9
Acq On : 10 Apr 2025 12:57 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 6 Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:54:14 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL7.D Vial: 10
Acq On : 10 Apr 2025 13:26 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 7 Inst : VMS4
Misc : 0.040/0.400 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:54:47 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1027516 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 811691 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 431671 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 279988 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 51641 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1038583 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 413509 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 607013 | 0.0384 | mg/kg | 99 |
| 3) Chloromethan | 2.20 | 50 | 622932 | 0.0372 | mg/kg | 98 |
| 4) VinylChlorid | 2.36 | 62 | 670546 | 0.0390 | mg/kg | 99 |
| 5) Bromomethane | 2.85 | 94 | 439131 | 0.0374 | mg/kg | 97 |
| 6) Chloroethane | 3.01 | 64 | 401444 | 0.0410 | mg/kg | 100 |
| 7) dichloroflmethane | 3.32 | 67 | 826276 | 0.0371 | mg/kg | 97 |
| 8) Trichlorofma | 3.42 | 101 | 841015 | 0.0386 | mg/kg | 99 |
| 9) Ethylether | 3.88 | 59 | 370214 | 0.0383 | mg/kg | 98 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 505852 | 0.0374 | mg/kg | 99 |
| 11) propyleneoxide | 4.10 | 58 | 710904 | 0.4014 | mg/kg | 96 |
| 12) Acrolein | 4.01 | 56 | 349093 | 0.1799 | mg/kg | 99 |
| 13) 11dichlorthe | 4.15 | 96 | 455378 | 0.0381 | mg/kg | 100 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 859306 | 0.0789 | mg/kg | 99 |
| 15) Acetone | 4.24 | 43 | 1379329 | 0.3436 | mg/kg | 99 |
| 16) Iodomethane | 4.33 | 142 | 1143819 | 0.0883 | mg/kg | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 2375895 | 0.0772 | mg/kg | 99 |
| 18) allylchloride | 4.64 | 41 | 1375257 | 0.0766 | mg/kg | 99 |
| 19) methylacetate | 4.71 | 74 | 153315 | 0.0384 | mg/kg | 95 |
| 20) Methylchlorid | 4.80 | 84 | 533331 | 0.0398 | mg/kg | 98 |
| 21) Acrylonitrile | 5.11 | 53 | 556339 | 0.1878 | mg/kg | 100 |
| 22) t12dichlorte | 5.19 | 96 | 512446 | 0.0377 | mg/kg | 94 |
| 23) tbutylalcohol | 5.04 | 59 | 1318962 | 1.9530 | mg/kg | 97 |
| 24) MtBE | 5.24 | 73 | 789449 | 0.0410 | mg/kg | 98 |
| 25) Hexane | 5.58 | 57 | 1166564 | 0.0747 | mg/kg | 98 |
| 26) 11dichlorota | 5.71 | 63 | 903228 | 0.0380 | mg/kg | 99 |
| 27) Vinylacetate | 5.81 | 43 | 8175636 | 0.3828 | mg/kg | 97 |
| 28) chloroprene | 5.85 | 53 | 1515404 | 0.0791 | mg/kg | 100 |
| 29) Diisopether | 5.88 | 45 | 1514924 | 0.0396 | mg/kg# | 98 |
| 30) ETBE | 6.34 | 59 | 297048 | 0.0406 | mg/kg | 99 |
| 31) 22dichloropr | 6.46 | 77 | 662133 | 0.0394 | mg/kg | 98 |
| 32) c12dichlorte | 6.45 | 96 | 565839 | 0.0387 | mg/kg | 99 |
| 33) 2Butanone | 6.49 | 72 | 458152 | 0.3733 | mg/kg | 99 |
| 34) propionitrile | 6.51 | 54 | 462571 | 0.3729 | mg/kg | 98 |
| 35) Ethylacetate | 6.60 | 88 | 45460 | 0.1972 | mg/kg | 94 |
| 36) methacrylonitrile | 6.72 | 67 | 305665 | 0.0777 | mg/kg | 98 |
| 37) Bromochlorma | 6.74 | 128 | 254285 | 0.0385 | mg/kg | 99 |
| 38) Tetrahydofur | 6.86 | 42 | 1033959 | 0.3836 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL7.D Vial: 10
Acq On : 10 Apr 2025 13:26 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 7 Inst : VMS4
Misc : 0.040/0.400 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:54:47 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 963979 | 0.0384 | mg/kg | 97 |
| 40) | 111trichlota | 7.10 | 97 | 854223 | 0.0384 | mg/kg | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 763489 | 0.0395 | mg/kg | 99 |
| 43) | Carbtetraclo | 7.32 | 119 | 762104 | 0.0396 | mg/kg | 99 |
| 44) | 11dicloprope | 7.31 | 110 | 243749 | 0.0374 | mg/kg | 96 |
| 46) | Benzene | 7.56 | 78 | 1992586 | 0.0384 | mg/kg | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 692132 | 0.0388 | mg/kg | 98 |
| 48) | TAME | 7.75 | 73 | 129187 | 0.0393 | mg/kg | 94 |
| 49) | trichloroete | 8.37 | 95 | 551315 | 0.0383 | mg/kg | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 835355 | 0.0393 | mg/kg | 98 |
| 51) | 12dicloropra | 8.62 | 63 | 544383 | 0.0399 | mg/kg | 95 |
| 52) | 23dicl1propene | 8.69 | 75 | 829834 | 0.0386 | mg/kg | 99 |
| 53) | Dibromometha | 8.76 | 93 | 318339 | 0.0391 | mg/kg | 98 |
| 54) | methylmethacrylate | 8.80 | 69 | 278667 | 0.0387 | mg/kg | 98 |
| 55) | 14dioxane | 8.84 | 88 | 202354 | 1.8907 | mg/kg | 98 |
| 56) | Bromodiclrma | 8.96 | 83 | 754709 | 0.0385 | mg/kg | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 1255649 | 0.3862 | mg/kg | 99 |
| 58) | c13dicloproe | 9.55 | 75 | 839704 | 0.0391 | mg/kg | 100 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 3491421 | 0.3788 | mg/kg | 97 |
| 61) | Toluene | 10.00 | 92 | 1277064 | 0.0375 | mg/kg | 100 |
| 62) | t13Dicloprop | 10.25 | 75 | 710761 | 0.0400 | mg/kg | 96 |
| 63) | ethylmethacrylate | 10.41 | 69 | 1098753 | 0.0786 | mg/kg | 99 |
| 64) | 112Triclotha | 10.50 | 83 | 352667 | 0.0375 | mg/kg | 95 |
| 65) | Tetrachlorte | 10.75 | 166 | 550499 | 0.0368 | mg/kg | 99 |
| 66) | 13Diclorpropa | 10.72 | 76 | 701954 | 0.0383 | mg/kg | 97 |
| 68) | 2Hexanone | 10.85 | 43 | 2559324 | 0.3960 | mg/kg | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 546443 | 0.0410 | mg/kg | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 438178 | 0.0394 | mg/kg | 96 |
| 71) | Chlorobenzen | 11.88 | 112 | 1435623 | 0.0397 | mg/kg | 98 |
| 72) | 1Clhexane | 11.85 | 91 | 692352 | 0.0391 | mg/kg | 95 |
| 73) | 1112Tetclota | 11.98 | 131 | 549057 | 0.0408 | mg/kg | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 2460595 | 0.0393 | mg/kg | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 1853397 | 0.0783 | mg/kg | 98 |
| 76) | o-Xylene | 12.75 | 106 | 927616 | 0.0399 | mg/kg | 98 |
| 77) | Styrene | 12.76 | 104 | 1563438 | 0.0409 | mg/kg | 100 |
| 78) | Bromoform | 12.99 | 173 | 330228 | 0.0415 | mg/kg | 98 |
| 79) | Isopropylben | 13.28 | 105 | 2367327 | 0.0395 | mg/kg | 99 |
| 81) | cyclohexanone | 13.38 | 55 | 837901 | 0.7846 | mg/kg | 97 |
| 83) | Bromobenzene | 13.69 | 156 | 630973 | 0.0384 | mg/kg | 95 |
| 84) | 1122Tetrclta | 13.65 | 83 | 529875 | 0.0387 | mg/kg | 98 |
| 85) | 123Triclproa | 13.71 | 75 | 529629 | 0.0393 | mg/kg | 95 |
| 86) | 14dichloro2butene | 13.86 | 53 | 13996 | 0.0373 | mg/kg# | 87 |
| 87) | n-Propylbenz | 13.86 | 91 | 2793810 | 0.0385 | mg/kg | 100 |
| 88) | 2chlorotolue | 13.98 | 91 | 1669497 | 0.0382 | mg/kg | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 1969459 | 0.0383 | mg/kg | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 2011386 | 0.0384 | mg/kg | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 1739036 | 0.0381 | mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 1996895 | 0.0383 | mg/kg | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 2483769 | 0.0388 | mg/kg | 99 |
| 94) | 13Diclorbenz | 15.06 | 146 | 1087696 | 0.0383 | mg/kg | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 2112354 | 0.0381 | mg/kg | 100 |
| 96) | 14dichlorobe | 15.19 | 146 | 1102353 | 0.0383 | mg/kg | 99 |
| 97) | 12dichlorobe | 15.73 | 146 | 997975 | 0.0382 | mg/kg | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 1938395 | 0.0383 | mg/kg | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 96267 | 0.0380 | mg/kg | 99 |
| 100) | 135Trichlorobenzene | 17.13 | 180 | 775743 | 0.0368 | mg/kg | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 689543 | 0.0372 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL7.D Vial: 10
Acq On : 10 Apr 2025 13:26 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 7 Inst : VMS4
Misc : 0.040/0.400 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:54:47 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 436285 | 0.0373 | mg/kg | 99 |
| 103) | Naphthalene | 18.25 | 128 | 1284297 | 0.0399 | mg/kg | 99 |
| 104) | 123Trichlben | 18.56 | 180 | 621779 | 0.0377 | mg/kg | 99 |

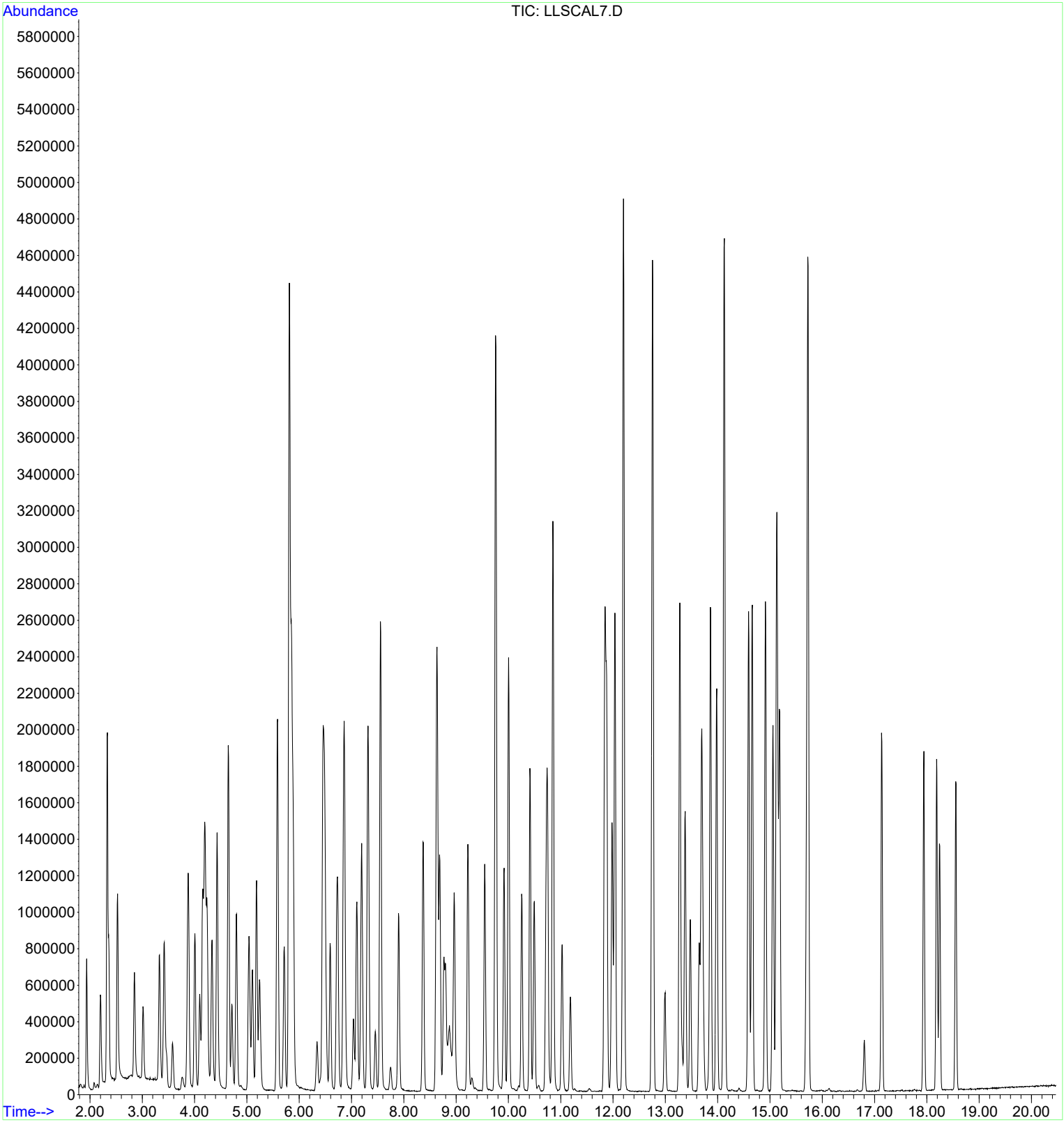
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL7.D Vial: 10
Acq On : 10 Apr 2025 13:26 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 7 Inst : VMS4
Misc : 0.040/0.400 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:54:47 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL8.D Vial: 11
Acq On : 10 Apr 2025 13:55 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 8 Inst : VMS4
Misc : 0.080/0.800 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:55:20 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1028319 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 823569 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 439939 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 277141 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 53032 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1029343 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 413998 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 95 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 1184862 | 0.0749 | mg/kg | 100 |
| 3) Chloromethan | 2.20 | 50 | 1255148 | 0.0749 | mg/kg | 99 |
| 4) VinylChlorid | 2.36 | 62 | 1333039 | 0.0774 | mg/kg | 100 |
| 5) Bromomethane | 2.85 | 94 | 890125 | 0.0758 | mg/kg | 96 |
| 6) Chloroethane | 3.01 | 64 | 789805 | 0.0805 | mg/kg | 99 |
| 7) dichloroflmethane | 3.32 | 67 | 1631467 | 0.0732 | mg/kg | 98 |
| 8) Trichlorofma | 3.42 | 101 | 1640390 | 0.0751 | mg/kg | 99 |
| 9) Ethylether | 3.88 | 59 | 720261 | 0.0745 | mg/kg | 98 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 1017104 | 0.0751 | mg/kg | 99 |
| 11) propyleneoxide | 4.10 | 58 | 1445127 | 0.8153 | mg/kg | 95 |
| 12) Acrolein | 4.01 | 56 | 704918 | 0.3629 | mg/kg | 90 |
| 13) 11dichlorthe | 4.15 | 96 | 923937 | 0.0772 | mg/kg | 98 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 1695232 | 0.1555 | mg/kg | 99 |
| 15) Acetone | 4.24 | 43 | 2718708 | 0.6767 | mg/kg | 98 |
| 16) Iodomethane | 4.33 | 142 | 2347814 | 0.1811 | mg/kg | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 4752864 | 0.1543 | mg/kg | 98 |
| 18) allylchloride | 4.64 | 41 | 2748594 | 0.1530 | mg/kg | 98 |
| 19) methylacetate | 4.71 | 74 | 309616 | 0.0776 | mg/kg | 96 |
| 20) Methylchlorid | 4.80 | 84 | 1036953 | 0.0800 | mg/kg | 98 |
| 21) Acrylonitrile | 5.11 | 53 | 1127054 | 0.3801 | mg/kg | 99 |
| 22) t12dichlorte | 5.19 | 96 | 1040954 | 0.0766 | mg/kg | 96 |
| 23) tbutylalcohol | 5.04 | 59 | 2944122 | 4.3559 | mg/kg | 99 |
| 24) MtBE | 5.24 | 73 | 1711784 | 0.0889 | mg/kg | 99 |
| 25) Hexane | 5.58 | 57 | 2331476 | 0.1492 | mg/kg | 97 |
| 26) 11dichlorota | 5.71 | 63 | 1812764 | 0.0761 | mg/kg | 99 |
| 27) Vinylacetate | 5.81 | 43 | 13622470 | 0.6374 | mg/kg | 91 |
| 28) chloroprene | 5.85 | 53 | 3035924 | 0.1583 | mg/kg | 99 |
| 29) Diisopether | 5.88 | 45 | 2998514 | 0.0782 | mg/kg# | 99 |
| 30) ETBE | 6.34 | 59 | 773867 | 0.0800 | mg/kg | 98 |
| 31) 22dichloropr | 6.46 | 77 | 1396605 | 0.0831 | mg/kg | 98 |
| 32) c12dichlorte | 6.45 | 96 | 1131670 | 0.0773 | mg/kg | 99 |
| 33) 2Butanone | 6.48 | 72 | 927279 | 0.7550 | mg/kg | 98 |
| 34) propionitrile | 6.51 | 54 | 947221 | 0.7630 | mg/kg | 97 |
| 35) Ethylacetate | 6.59 | 88 | 92429 | 0.4006 | mg/kg | 93 |
| 36) methacrylonitrile | 6.72 | 67 | 607713 | 0.1544 | mg/kg | 98 |
| 37) Bromochlorma | 6.74 | 128 | 480085 | 0.0726 | mg/kg | 98 |
| 38) Tetrahydofur | 6.86 | 42 | 2057852 | 0.7628 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL8.D Vial: 11
Acq On : 10 Apr 2025 13:55 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 8 Inst : VMS4
Misc : 0.080/0.800 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:55:20 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 1914836 | 0.0761 | mg/kg | 96 |
| 40) | 111trichlota | 7.10 | 97 | 1714136 | 0.0769 | mg/kg | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 1511803 | 0.0781 | mg/kg | 99 |
| 43) | Carbtetraclo | 7.32 | 119 | 1517508 | 0.0787 | mg/kg | 96 |
| 44) | 11dicloprope | 7.31 | 110 | 498098 | 0.0764 | mg/kg | 98 |
| 46) | Benzene | 7.56 | 78 | 3925082 | 0.0756 | mg/kg | 100 |
| 47) | 12dichlorota | 7.55 | 62 | 1350893 | 0.0757 | mg/kg | 98 |
| 48) | TAME | 7.75 | 73 | 406849 | 0.0801 | mg/kg | 96 |
| 49) | trichloroete | 8.37 | 95 | 1113532 | 0.0773 | mg/kg | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 1669866 | 0.0786 | mg/kg | 99 |
| 51) | 12dicloropra | 8.63 | 63 | 1083148 | 0.0793 | mg/kg | 95 |
| 52) | 23dicl1propene | 8.69 | 75 | 1670050 | 0.0777 | mg/kg | 99 |
| 53) | Dibromometha | 8.76 | 93 | 629304 | 0.0771 | mg/kg | 98 |
| 54) | methylmethacrylate | 8.80 | 69 | 573405 | 0.0796 | mg/kg | 98 |
| 55) | 14dioxane | 8.84 | 88 | 398980 | 3.7250 | mg/kg | 99 |
| 56) | Bromodiclrma | 8.96 | 83 | 1509029 | 0.0769 | mg/kg | 98 |
| 57) | 2Nitropropane | 9.23 | 43 | 2535092 | 0.7790 | mg/kg | 99 |
| 58) | c13dicloproe | 9.55 | 75 | 1663315 | 0.0774 | mg/kg | 99 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 6728358 | 0.7294 | mg/kg | 94 |
| 61) | Toluene | 10.00 | 92 | 2542275 | 0.0745 | mg/kg | 98 |
| 62) | t13Dicloprop | 10.25 | 75 | 1427778 | 0.0803 | mg/kg | 96 |
| 63) | ethylmethacrylate | 10.41 | 69 | 2165429 | 0.1549 | mg/kg | 100 |
| 64) | 112Triclotha | 10.49 | 83 | 710873 | 0.0755 | mg/kg | 97 |
| 65) | Tetrachlorte | 10.75 | 166 | 1113922 | 0.0743 | mg/kg | 98 |
| 66) | 13Diclorpropa | 10.72 | 76 | 1397261 | 0.0762 | mg/kg | 98 |
| 68) | 2Hexanone | 10.85 | 43 | 5041473 | 0.7688 | mg/kg | 98 |
| 69) | Clorodibrmta | 11.03 | 129 | 1095441 | 0.0810 | mg/kg | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 878646 | 0.0778 | mg/kg | 97 |
| 71) | Chlorobenzen | 11.88 | 112 | 2831999 | 0.0771 | mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 1392950 | 0.0775 | mg/kg | 96 |
| 73) | 1112Tetclota | 11.98 | 131 | 1088580 | 0.0797 | mg/kg | 99 |
| 74) | Ethylbenzene | 12.04 | 91 | 4822083 | 0.0758 | mg/kg | 97 |
| 75) | m p-Xylene | 12.20 | 106 | 3741679 | 0.1558 | mg/kg | 92 |
| 76) | o-Xylene | 12.75 | 106 | 1858045 | 0.0788 | mg/kg | 96 |
| 77) | Styrene | 12.76 | 104 | 3121011 | 0.0805 | mg/kg | 98 |
| 78) | Bromoform | 12.99 | 173 | 695978 | 0.0862 | mg/kg | 98 |
| 79) | Isopropylben | 13.28 | 105 | 4697834 | 0.0772 | mg/kg | 97 |
| 81) | cyclohexanone | 13.38 | 55 | 1766813 | 1.6232 | mg/kg | 98 |
| 83) | Bromobenzene | 13.69 | 156 | 1270211 | 0.0759 | mg/kg | 96 |
| 84) | 1122Tetrclta | 13.65 | 83 | 1063038 | 0.0761 | mg/kg | 97 |
| 85) | 123Triclproa | 13.71 | 75 | 1089768 | 0.0794 | mg/kg | 94 |
| 86) | 14dichloro2butene | 13.86 | 53 | 28698 | 0.0803 | mg/kg# | 88 |
| 87) | n-Propylbenz | 13.86 | 91 | 5512316 | 0.0745 | mg/kg | 98 |
| 88) | 2chlorotolue | 13.98 | 91 | 3367371 | 0.0756 | mg/kg | 98 |
| 89) | 4chlorotolue | 14.13 | 91 | 3954574 | 0.0754 | mg/kg | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 4050604 | 0.0760 | mg/kg | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 3535298 | 0.0760 | mg/kg | 99 |
| 92) | 124Trimetben | 14.66 | 105 | 3991135 | 0.0751 | mg/kg | 98 |
| 93) | sbutylbenzen | 14.91 | 105 | 4953892 | 0.0760 | mg/kg | 97 |
| 94) | 13Diclorbenz | 15.06 | 146 | 2198139 | 0.0759 | mg/kg | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 4290800 | 0.0760 | mg/kg | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 2209729 | 0.0753 | mg/kg | 98 |
| 97) | 12dichlorobe | 15.73 | 146 | 2015722 | 0.0757 | mg/kg | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 3903211 | 0.0756 | mg/kg | 97 |
| 99) | 12dibromo3cl | 16.81 | 157 | 209889 | 0.0814 | mg/kg | 99 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 1623711 | 0.0755 | mg/kg | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 1438401 | 0.0760 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL8.D Vial: 11
Acq On : 10 Apr 2025 13:55 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 8 Inst : VMS4
Misc : 0.080/0.800 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:55:20 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 957292 | 0.0804 | mg/kg | 99 |
| 103) | Naphthalene | 18.24 | 128 | 2721470 | 0.0831 | mg/kg | 100 |
| 104) | 123Trichlben | 18.55 | 180 | 1328806 | 0.0790 | mg/kg | 99 |

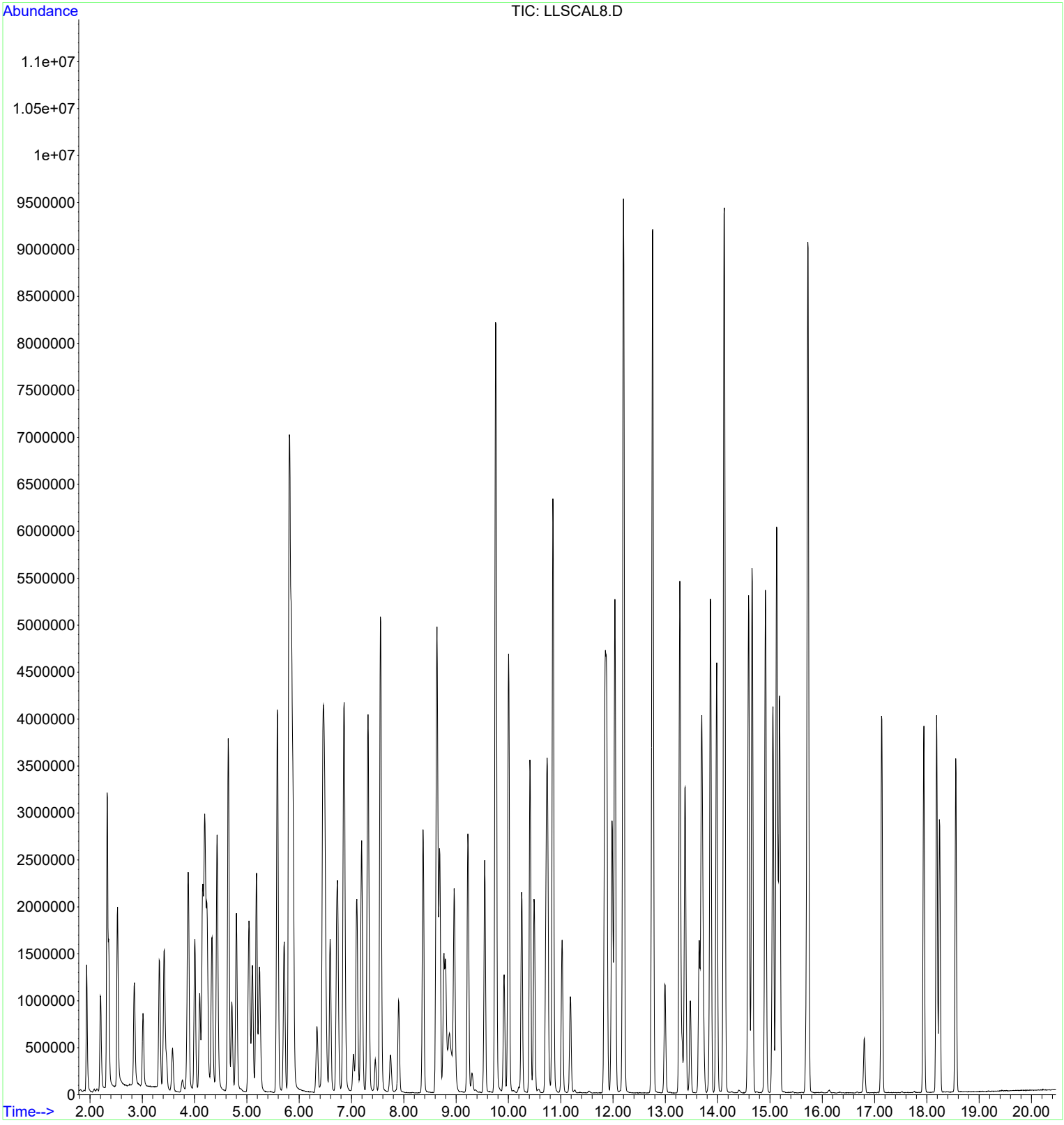
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\LLSCAL8.D Vial: 11
Acq On : 10 Apr 2025 13:55 Operator: RLD-DGS
Sample : INITIAL CALIB. PT 8 Inst : VMS4
Misc : 0.080/0.800 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 16 07:55:20 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1025\ICV1.D Vial: 13
Acq On : 10 Apr 2025 14:53 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 11 07:15:37 2025

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS041025.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 104 | 0.00 |
| 2 | T | Dichlorodi | 0.3075 | 0.3159 | -2.73 | 102 | 0.00 |
| 3 | PT | Chloromethan | 0.3258 | 0.3422 | -5.03 | 114 | 0.00 |
| 4 | CT | VinylChlorid | 0.3350 | 0.3597 | -7.37 | 113 | 0.00 |
| 5 | T | Bromomethane | 0.2284 | 0.2670 | -16.90 | 132 | 0.00 |
| 6 | T | Chloroethane | 0.1908 | 0.2159 | -13.16 | 110 | 0.00 |
| 7 | T | dichloroflmethane | 0.4336 | 0.4176 | 3.69 | 101 | 0.00 |
| 8 | T | Trichlorofma | 0.4245 | 0.4302 | -1.34 | 103 | 0.00 |
| 9 | T | Ethylether | 0.1881 | 0.1892 | -0.58 | 105 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2634 | 0.2707 | -2.77 | 110 | 0.00 |
| 11 | T | propyleneoxide | 0.0345 | 0.0369 | -6.96 | 119 | 0.00 |
| 12 | T | Acrolein | 0.0378 | 0.0353 | 6.61 | 102 | 0.00 |
| 13 | CT | 11dichlorthe | 0.2327 | 0.2368 | -1.76 | 108 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.2121 | 0.2135 | -0.66 | 102 | 0.00 |
| 15 | T | Acetone | 0.0781 | 0.0747 | 4.35 | 102 | 0.00 |
| 16 | T | Iodomethane | 0.2521 | 0.2023 | 19.75 | 92 | 0.00 |
| 17 | T | Carbon Dislf | 0.5989 | 0.6094 | -1.75 | 107 | 0.00 |
| 18 | T | allylchloride | 0.3494 | 0.3371 | 3.52 | 104 | 0.00 |
| 19 | T | methylacetate | 0.0776 | 0.0813 | -4.77 | 114 | 0.00 |
| 20 | T | Methylchlorid | 0.3017 | 0.3139 | -4.04 | 112 | 0.00 |
| 21 | T | Acrylonitrile | 0.0577 | 0.0568 | 1.56 | 104 | 0.00 |
| 22 | T | t12dichlorte | 0.2644 | 0.2638 | 0.23 | 103 | 0.00 |
| 23 | T | tbutylalcohol | 0.0131 | 0.0138 | -5.34 | 119 | 0.00 |
| 24 | T | MtBE | 0.3747 | 0.4144 | -10.60 | 124 | 0.00 |
| 25 | T | Hexane | 0.3038 | 0.2912 | 4.15 | 94 | 0.00 |
| 26 | PT | 11dichlorota | 0.4631 | 0.4613 | 0.39 | 107 | 0.00 |
| 27 | T | Vinylacetate | 0.4157 | 0.4494 | -8.11 | 107 | 0.00 |
| 28 | T | chloroprene | 0.3731 | 0.3748 | -0.46 | 105 | 0.00 |
| 29 | T | Diisopether | 0.7453 | 0.7585 | -1.77 | 106 | 0.00 |
| 30 | T | ETBE | 0.1314 | 0.1493 | -13.62 | 148 | 0.00 |
| 31 | T | 22dichloropr | 0.3270 | 0.3195 | 2.29 | 106 | 0.00 |
| 32 | T | c12dichlorte | 0.2848 | 0.2872 | -0.84 | 107 | 0.00 |
| 33 | T | 2Butanone | 0.0239 | 0.0234 | 2.09 | 104 | 0.00 |
| 34 | T | propionitrile | 0.0241 | 0.0240 | 0.41 | 108 | 0.00 |
| 35 | T | Ethylacetate | 0.0045 | 0.0045# | 0.00 | 105 | 0.00 |
| 36 | T | methacrylonitrile | 0.0765 | 0.0767 | -0.26 | 110 | 0.00 |
| 37 | T | Bromochlorma | 0.1286 | 0.1313 | -2.10 | 108 | 0.00 |
| 38 | T | Tetrahydofur | 0.0525 | 0.0529 | -0.76 | 108 | 0.00 |
| 39 | CT | Chloroform | 0.4892 | 0.4876 | 0.33 | 105 | 0.00 |
| 40 | T | 111trichlota | 0.4335 | 0.4296 | 0.90 | 104 | 0.00 |
| 41 | S | SURRDibrflma | 0.2699 | 0.2678 | 0.78 | 102 | 0.00 |
| 42 | T | Cyclohexane | 0.3764 | 0.3714 | 1.33 | 99 | 0.00 |
| 43 | T | Carbtetraclo | 0.3749 | 0.3709 | 1.07 | 102 | 0.00 |
| 44 | T | 11dicloprope | 0.1268 | 0.1250 | 1.42 | 103 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0511 | 0.0490 | 4.11 | 98 | 0.00 |
| 46 | T | Benzene | 1.0103 | 1.0244 | -1.40 | 108 | 0.00 |
| 47 | T | 12dichlorota | 0.3470 | 0.3453 | 0.49 | 102 | 0.00 |
| 48 | T | TAME | 0.0542 | 0.0722 | -33.21# | 175 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.2800 | 0.2831 | -1.11 | 105 | 0.00 |
| 50 | T | methylcyclohexane | 0.4133 | 0.4010 | 2.98 | 97 | 0.00 |
| 51 | CT | 12dicloropra | 0.2657 | 0.2699 | -1.58 | 106 | 0.00 |
| 52 | T | 23dicl1propene | 0.4179 | 0.4281 | -2.44 | 107 | 0.00 |
| 53 | T | Dibromometha | 0.1587 | 0.1615 | -1.76 | 104 | 0.00 |
| 54 | T | methylmethacrylate | 0.1401 | 0.1415 | -1.00 | 107 | 0.00 |
| 55 | T | 14dioxane | 0.0021 | 0.0021# | 0.00 | 108 | 0.00 |
| 56 | T | Bromodiclrma | 0.3816 | 0.3750 | 1.73 | 103 | 0.00 |
| 57 | T | 2Nitropropane | 0.0633 | 0.0626 | 1.11 | 104 | 0.00 |
| 58 | T | c13dicloproe | 0.4182 | 0.4202 | -0.48 | 106 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.1794 | 0.1820 | -1.45 | 103 | 0.00 |
| 60 | S | SURRd8Tolule | 1.0200 | 0.9936 | 2.59 | 101 | 0.00 |
| 61 | CT | Toluene | 0.6636 | 0.6421 | 3.24 | 100 | 0.00 |
| 62 | T | t13Dicloprop | 0.3460 | 0.3455 | 0.14 | 107 | 0.00 |
| 63 | T | ethylmethacrylate | 0.2719 | 0.2645 | 2.72 | 100 | 0.00 |
| 64 | T | 112Triclotha | 0.1830 | 0.1812 | 0.98 | 100 | 0.00 |
| 65 | T | Tetrachlorte | 0.2915 | 0.2768 | 5.04 | 99 | 0.00 |
| 66 | T | 13Diclorpropa | 0.3565 | 0.3603 | -1.07 | 105 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 97 | 0.00 |
| 68 | T | 2Hexanone | 0.1593 | 0.1692 | -6.21 | 106 | 0.00 |
| 69 | T | Clorodibrmta | 0.3282 | 0.3320 | -1.16 | 100 | 0.00 |
| 70 | T | 12Dibrometha | 0.2741 | 0.2753 | -0.44 | 98 | 0.00 |
| 71 | PT | Chlorobenzen | 0.8915 | 0.9032 | -1.31 | 100 | 0.00 |
| 72 | T | 1Clhexane | 0.4365 | 0.4307 | 1.33 | 97 | 0.00 |
| 73 | T | 1112Tetclota | 0.3319 | 0.3403 | -2.53 | 102 | 0.00 |
| 74 | CT | Ethylbenzene | 1.5447 | 1.5998 | -3.57 | 102 | 0.00 |
| 75 | T | m p-Xylene | 0.5832 | 0.5971 | -2.38 | 101 | 0.00 |
| 76 | T | o-Xylene | 0.5729 | 0.5795 | -1.15 | 100 | 0.00 |
| 77 | T | Styrene | 0.9417 | 0.9831 | -4.40 | 103 | 0.00 |
| 78 | PT | Bromoform | 0.1960 | 0.1966 | -0.31 | 96 | 0.00 |
| 79 | T | Isopropylben | 1.4781 | 1.5194 | -2.79 | 101 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 96 | 0.00 |
| 81 | T | cyclohexanone | 0.0495 | 0.0516 | -4.24 | 106 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.9694 | 0.9731 | -0.38 | 95 | 0.00 |
| 83 | T | Bromobenzene | 0.7611 | 0.8039 | -5.62 | 101 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.6347 | 0.6798 | -7.11 | 103 | 0.00 |
| 85 | T | 123Triclproa | 0.6237 | 0.6767 | -8.50 | 108 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0237 | 0.0183 | 22.78# | 99 | 0.00 |
| 87 | T | n-Propylbenz | 3.3640 | 3.5331 | -5.03 | 100 | 0.00 |
| 88 | T | 2chlorotolue | 2.0246 | 2.1206 | -4.74 | 101 | 0.00 |
| 89 | T | 4chlorotolue | 2.3839 | 2.4733 | -3.75 | 101 | 0.00 |
| 90 | T | 135Trimebenz | 2.4240 | 2.4889 | -2.68 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 2.1140 | 2.1454 | -1.49 | 97 | 0.00 |
| 92 | T | 124Trimetben | 2.4149 | 2.5093 | -3.91 | 101 | 0.00 |
| 93 | T | sbutylbenzen | 2.9647 | 3.1092 | -4.87 | 100 | 0.00 |
| 94 | T | 13Diclorbenz | 1.3173 | 1.3407 | -1.78 | 99 | 0.00 |
| 95 | T | pIsopropylto | 2.5672 | 2.6297 | -2.43 | 98 | 0.00 |
| 96 | T | 14dichlorobe | 1.3341 | 1.3960 | -4.64 | 102 | 0.00 |
| 97 | T | 12dichlorobe | 1.2111 | 1.2545 | -3.58 | 100 | 0.00 |
| 98 | T | nButylbenzen | 2.3469 | 2.3835 | -1.56 | 97 | 0.00 |
| 99 | T | 12dibromo3cl | 0.1172 | 0.1179 | -0.60 | 97 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.9773 | 0.9520 | 2.59 | 95 | 0.00 |
| 101 | T | 124Trichlobe | 0.8599 | 0.8499 | 1.16 | 96 | 0.00 |
| 102 | T | Hexachlorobu | 0.5414 | 0.5298 | 2.14 | 95 | 0.00 |
| 103 | T | Naphthalene | 1.4897 | 1.6092 | -8.02 | 108 | 0.00 |
| 104 | T | 123Trichlben | 0.7647 | 0.7734 | -1.14 | 100 | 0.00 |

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(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS041025.M Wed Apr 16 07:36:02 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1025\ICV1.D Vial: 13
Acq On : 10 Apr 2025 14:53 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 11 07:15:37 2025

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS041025.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 0.0200 | 0.0200 | 0.00 | 104 | 0.00 |
| 2 | T | Dichlorodi | 0.0100 | 0.0103 | -3.00 | 102 | 0.00 |
| 3 | PT | Chloromethan | 0.0100 | 0.0105 | -5.00 | 114 | 0.00 |
| 4 | CT | VinylChlorid | 0.0100 | 0.0107 | -7.00 | 113 | 0.00 |
| 5 | T | Bromomethane | 0.0100 | 0.0117 | -17.00 | 132 | 0.00 |
| 6 | T | Chloroethane | 0.0100 | 0.0113 | -13.00 | 110 | 0.00 |
| 7 | T | dichloroflmethane | 0.0100 | 0.0096 | 4.00 | 101 | 0.00 |
| 8 | T | Trichlorofma | 0.0100 | 0.0101 | -1.00 | 103 | 0.00 |
| 9 | T | Ethylether | 0.0100 | 0.0101 | -1.00 | 105 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.0100 | 0.0103 | -3.00 | 110 | 0.00 |
| 11 | T | propyleneoxide | 0.1000 | 0.1071 | -7.10 | 119 | 0.00 |
| 12 | T | Acrolein | 0.0500 | 0.0467 | 6.60 | 102 | 0.00 |
| 13 | CT | 11dichlorthe | 0.0100 | 0.0102 | -2.00 | 108 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.0200 | 0.0201 | -0.50 | 102 | 0.00 |
| 15 | T | Acetone | 0.1000 | 0.0956 | 4.40 | 102 | 0.00 |
| 16 | T | Iodomethane | 0.0200 | 0.0161 | 19.50 | 92 | 0.00 |
| 17 | T | Carbon Dislf | 0.0200 | 0.0204 | -2.00 | 107 | 0.00 |
| 18 | T | allylchloride | 0.0200 | 0.0193 | 3.50 | 104 | 0.00 |
| 19 | T | methylacetate | 0.0100 | 0.0105 | -5.00 | 114 | 0.00 |
| 20 | T | Methylchlorid | 0.0100 | 0.0113 | -13.00 | 112 | 0.00 |
| 21 | T | Acrylonitrile | 0.0500 | 0.0493 | 1.40 | 104 | 0.00 |
| 22 | T | t12dichlorte | 0.0100 | 0.0100 | 0.00 | 103 | 0.00 |
| 23 | T | tbutylalcohol | 0.5000 | 0.5246 | -4.92 | 119 | 0.00 |
| 24 | T | MtBE | 0.0100 | 0.0111 | -11.00 | 124 | 0.00 |
| 25 | T | Hexane | 0.0200 | 0.0192 | 4.00 | 94 | 0.00 |
| 26 | PT | 11dichlorota | 0.0100 | 0.0100 | 0.00 | 107 | 0.00 |
| 27 | T | Vinylacetate | 0.1000 | 0.1081 | -8.10 | 107 | 0.00 |
| 28 | T | chloroprene | 0.0200 | 0.0201 | -0.50 | 105 | 0.00 |
| 29 | T | Diisopether | 0.0100 | 0.0102 | -2.00 | 106 | 0.00 |
| 30 | T | ETBE | 0.0100 | 0.0132 | -32.00# | 148 | 0.00 |
| 31 | T | 22dichloropr | 0.0100 | 0.0098 | 2.00 | 106 | 0.00 |
| 32 | T | c12dichlorte | 0.0100 | 0.0101 | -1.00 | 107 | 0.00 |
| 33 | T | 2Butanone | 0.1000 | 0.0982 | 1.80 | 104 | 0.00 |
| 34 | T | propionitrile | 0.1000 | 0.0993 | 0.70 | 108 | 0.00 |
| 35 | T | Ethylacetate | 0.0500 | 0.0504 | -0.80 | 105 | 0.00 |
| 36 | T | methacrylonitrile | 0.0200 | 0.0200 | 0.00 | 110 | 0.00 |
| 37 | T | Bromochlorma | 0.0100 | 0.0102 | -2.00 | 108 | 0.00 |
| 38 | T | Tetrahydofur | 0.1000 | 0.1008 | -0.80 | 108 | 0.00 |
| 39 | CT | Chloroform | 0.0100 | 0.0100 | 0.00 | 105 | 0.00 |
| 40 | T | 111trichlota | 0.0100 | 0.0099 | 1.00 | 104 | 0.00 |
| 41 | S | SURRDibrflma | 0.0200 | 0.0198 | 1.00 | 102 | 0.00 |
| 42 | T | Cyclohexane | 0.0100 | 0.0099 | 1.00 | 99 | 0.00 |
| 43 | T | Carbtetraclo | 0.0100 | 0.0099 | 1.00 | 102 | 0.00 |
| 44 | T | 11dicloprope | 0.0100 | 0.0099 | 1.00 | 103 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0200 | 0.0192 | 4.00 | 98 | 0.00 |
| 46 | T | Benzene | 0.0100 | 0.0101 | -1.00 | 108 | 0.00 |
| 47 | T | 12dichlorota | 0.0100 | 0.0100 | 0.00 | 102 | 0.00 |
| 48 | T | TAME | 0.0100 | 0.0159 | -59.00# | 175 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.0100 | 0.0101 | -1.00 | 105 | 0.00 |
| 50 | T | methylcyclohexane | 0.0100 | 0.0097 | 3.00 | 97 | 0.00 |
| 51 | CT | 12dicloropra | 0.0100 | 0.0102 | -2.00 | 106 | 0.00 |
| 52 | T | 23dicl1propene | 0.0100 | 0.0102 | -2.00 | 107 | 0.00 |
| 53 | T | Dibromometha | 0.0100 | 0.0102 | -2.00 | 104 | 0.00 |
| 54 | T | methylmethacrylate | 0.0100 | 0.0101 | -1.00 | 107 | 0.00 |
| 55 | T | 14dioxane | 0.5000 | 0.4937 | 1.26 | 108 | 0.00 |
| 56 | T | Bromodiclrma | 0.0100 | 0.0098 | 2.00 | 103 | 0.00 |
| 57 | T | 2Nitropropane | 0.1000 | 0.0989 | 1.10 | 104 | 0.00 |
| 58 | T | c13dicloproe | 0.0100 | 0.0100 | 0.00 | 106 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.1000 | 0.1014 | -1.40 | 103 | 0.00 |
| 60 | S | SURRd8Tolule | 0.0200 | 0.0195 | 2.50 | 101 | 0.00 |
| 61 | CT | Toluene | 0.0100 | 0.0097 | 3.00 | 100 | 0.00 |
| 62 | T | t13Dicloprop | 0.0100 | 0.0100 | 0.00 | 107 | 0.00 |
| 63 | T | ethylmethacrylate | 0.0200 | 0.0195 | 2.50 | 100 | 0.00 |
| 64 | T | 112Triclotha | 0.0100 | 0.0099 | 1.00 | 100 | 0.00 |
| 65 | T | Tetrachlorte | 0.0100 | 0.0095 | 5.00 | 99 | 0.00 |
| 66 | T | 13Diclorpropa | 0.0100 | 0.0101 | -1.00 | 105 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 0.0200 | 0.0200 | 0.00 | 97 | 0.00 |
| 68 | T | 2Hexanone | 0.1000 | 0.1062 | -6.20 | 106 | 0.00 |
| 69 | T | Clorodibrmta | 0.0100 | 0.0101 | -1.00 | 100 | 0.00 |
| 70 | T | 12Dibrometha | 0.0100 | 0.0100 | 0.00 | 98 | 0.00 |
| 71 | PT | Chlorobenzen | 0.0100 | 0.0101 | -1.00 | 100 | 0.00 |
| 72 | T | 1Clhexane | 0.0100 | 0.0099 | 1.00 | 97 | 0.00 |
| 73 | T | 1112Tetclota | 0.0100 | 0.0103 | -3.00 | 102 | 0.00 |
| 74 | CT | Ethylbenzene | 0.0100 | 0.0104 | -4.00 | 102 | 0.00 |
| 75 | T | m p-Xylene | 0.0200 | 0.0205 | -2.50 | 101 | 0.00 |
| 76 | T | o-Xylene | 0.0100 | 0.0101 | -1.00 | 100 | 0.00 |
| 77 | T | Styrene | 0.0100 | 0.0104 | -4.00 | 103 | 0.00 |
| 78 | PT | Bromoform | 0.0100 | 0.0100 | 0.00 | 96 | 0.00 |
| 79 | T | Isopropylben | 0.0100 | 0.0103 | -3.00 | 101 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 0.0200 | 0.0200 | 0.00 | 96 | 0.00 |
| 81 | T | cyclohexanone | 0.2000 | 0.2084 | -4.20 | 106 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.0200 | 0.0201 | -0.50 | 95 | 0.00 |
| 83 | T | Bromobenzene | 0.0100 | 0.0106 | -6.00 | 101 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.0100 | 0.0107 | -7.00 | 103 | 0.00 |
| 85 | T | 123Triclproa | 0.0100 | 0.0108 | -8.00 | 108 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0100 | 0.0088 | 12.00 | 99 | 0.00 |
| 87 | T | n-Propylbenz | 0.0100 | 0.0105 | -5.00 | 100 | 0.00 |
| 88 | T | 2chlorotolue | 0.0100 | 0.0105 | -5.00 | 101 | 0.00 |
| 89 | T | 4chlorotolue | 0.0100 | 0.0104 | -4.00 | 101 | 0.00 |
| 90 | T | 135Trimebenz | 0.0100 | 0.0103 | -3.00 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 0.0100 | 0.0101 | -1.00 | 97 | 0.00 |
| 92 | T | 124Trimetben | 0.0100 | 0.0104 | -4.00 | 101 | 0.00 |
| 93 | T | sbutylbenzen | 0.0100 | 0.0105 | -5.00 | 100 | 0.00 |
| 94 | T | 13Diclorbenz | 0.0100 | 0.0102 | -2.00 | 99 | 0.00 |
| 95 | T | pIsopropylto | 0.0100 | 0.0102 | -2.00 | 98 | 0.00 |
| 96 | T | 14dichlorobe | 0.0100 | 0.0105 | -5.00 | 102 | 0.00 |
| 97 | T | 12dichlorobe | 0.0100 | 0.0104 | -4.00 | 100 | 0.00 |
| 98 | T | nButylbenzen | 0.0100 | 0.0102 | -2.00 | 97 | 0.00 |
| 99 | T | 12dibromo3cl | 0.0100 | 0.0101 | -1.00 | 97 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.0100 | 0.0097 | 3.00 | 95 | 0.00 |
| 101 | T | 124Trichlobe | 0.0100 | 0.0099 | 1.00 | 96 | 0.00 |
| 102 | T | Hexachlorobu | 0.0100 | 0.0098 | 2.00 | 95 | 0.00 |
| 103 | T | Naphthalene | 0.0100 | 0.0108 | -8.00 | 108 | 0.00 |
| 104 | T | 123Trichlben | 0.0100 | 0.0101 | -1.00 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS041025.M Wed Apr 16 07:36:26 2025

Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICV1.D Vial: 13
Acq On : 10 Apr 2025 14:53 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:15:37 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:15:31 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1022095 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 807544 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 407723 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.03 | 113 | 273674 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 50098 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 95 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1015580 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 396746 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 161443 | 0.0103 | mg/kg | 99 |
| 3) Chloromethan | 2.20 | 50 | 174890 | 0.0105 | mg/kg | 97 |
| 4) VinylChlorid | 2.36 | 62 | 183802 | 0.0107 | mg/kg | 99 |
| 5) Bromomethane | 2.85 | 94 | 136459 | 0.0117 | mg/kg | 94 |
| 6) Chloroethane | 3.01 | 64 | 110333 | 0.0113 | mg/kg | 98 |
| 7) dichloroflmethane | 3.32 | 67 | 213390 | 0.0096 | mg/kg | 98 |
| 8) Trichlorofma | 3.42 | 101 | 219872 | 0.0101 | mg/kg | 97 |
| 9) Ethylether | 3.88 | 59 | 96713 | 0.0101 | mg/kg | 98 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 138316 | 0.0103 | mg/kg | 95 |
| 11) propyleneoxide | 4.10 | 58 | 188614 | 0.1071 | mg/kg | 97 |
| 12) Acrolein | 4.01 | 56 | 90073 | 0.0467 | mg/kg | 97 |
| 13) 11dichlorthe | 4.16 | 96 | 121033 | 0.0102 | mg/kg | 96 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 218171 | 0.0201 | mg/kg | 98 |
| 15) Acetone | 4.24 | 43 | 381588 | 0.0956 | mg/kg | 100 |
| 16) Iodomethane | 4.33 | 142 | 206777 | 0.0161 | mg/kg | 95 |
| 17) Carbon Dislf | 4.43 | 76 | 622851 | 0.0204 | mg/kg | 100 |
| 18) allylchloride | 4.65 | 41 | 344599 | 0.0193 | mg/kg | 99 |
| 19) methylacetate | 4.72 | 74 | 41529 | 0.0105 | mg/kg | 99 |
| 20) Methylchlorid | 4.80 | 84 | 160426 | 0.0113 | mg/kg | 99 |
| 21) Acrylonitrile | 5.11 | 53 | 145142 | 0.0493 | mg/kg | 98 |
| 22) t12dichlorte | 5.19 | 96 | 134837 | 0.0100 | mg/kg | 98 |
| 23) tbutylalcohol | 5.04 | 59 | 352417 | 0.5246 | mg/kg | 99 |
| 24) MtBE | 5.25 | 73 | 211774 | 0.0111 | mg/kg | 97 |
| 25) Hexane | 5.59 | 57 | 297610 | 0.0192 | mg/kg | 98 |
| 26) 11dichlorota | 5.71 | 63 | 235746 | 0.0100 | mg/kg | 100 |
| 27) Vinylacetate | 5.81 | 43 | 2296459 | 0.1081 | mg/kg | 99 |
| 28) chloroprene | 5.85 | 53 | 383050 | 0.0201 | mg/kg | 99 |
| 29) Diisopether | 5.89 | 45 | 387606 | 0.0102 | mg/kg# | 99 |
| 30) ETBE | 6.34 | 59 | 76274 | 0.0132 | mg/kg | 94 |
| 31) 22dichloropr | 6.46 | 77 | 163293 | 0.0098 | mg/kg | 97 |
| 32) c12dichlorte | 6.46 | 96 | 146766 | 0.0101 | mg/kg | 99 |
| 33) 2Butanone | 6.49 | 72 | 119816 | 0.0982 | mg/kg | 97 |
| 34) propionitrile | 6.51 | 54 | 122520 | 0.0993 | mg/kg | 98 |
| 35) Ethylacetate | 6.60 | 88 | 11563 | 0.0504 | mg/kg | 96 |
| 36) methacrylonitrile | 6.72 | 67 | 78403 | 0.0200 | mg/kg | 98 |
| 37) Bromochlorma | 6.74 | 128 | 67126 | 0.0102 | mg/kg | 96 |
| 38) Tetrahydofur | 6.87 | 42 | 270191 | 0.1008 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICV1.D Vial: 13
Acq On : 10 Apr 2025 14:53 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:15:37 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:15:31 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 249183 | 0.0100 mg/kg | 98 |
| 40) | 111trichlota | 7.10 | 97 | 219533 | 0.0099 mg/kg | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 189816 | 0.0099 mg/kg | 97 |
| 43) | Carbtetraclo | 7.33 | 119 | 189548 | 0.0099 mg/kg | 97 |
| 44) | 11dicloprope | 7.31 | 110 | 63872 | 0.0099 mg/kg | 96 |
| 46) | Benzene | 7.56 | 78 | 523531 | 0.0101 mg/kg | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 176465 | 0.0100 mg/kg | 99 |
| 48) | TAME | 7.75 | 73 | 36889 | 0.0159 mg/kg | 92 |
| 49) | trichloroete | 8.37 | 95 | 144702 | 0.0101 mg/kg | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 204910 | 0.0097 mg/kg | 99 |
| 51) | 12dicloropra | 8.63 | 63 | 137945 | 0.0102 mg/kg | 99 |
| 52) | 23dicl1propene | 8.69 | 75 | 218772 | 0.0102 mg/kg | 98 |
| 53) | Dibromometha | 8.76 | 93 | 82555 | 0.0102 mg/kg | 99 |
| 54) | methylmethacrylate | 8.80 | 69 | 72330 | 0.0101 mg/kg | 98 |
| 55) | 14dioxane | 8.84 | 88 | 52557 | 0.4937 mg/kg | 95 |
| 56) | Bromodiclrma | 8.96 | 83 | 191656 | 0.0098 mg/kg | 100 |
| 57) | 2Nitropropane | 9.23 | 43 | 319960 | 0.0989 mg/kg | 98 |
| 58) | c13dicloproe | 9.55 | 75 | 214725 | 0.0100 mg/kg | 99 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 929859 | 0.1014 mg/kg | 99 |
| 61) | Toluene | 10.00 | 92 | 328142 | 0.0097 mg/kg | 95 |
| 62) | t13Dicloprop | 10.25 | 75 | 176558 | 0.0100 mg/kg | 99 |
| 63) | ethylmethacrylate | 10.42 | 69 | 270314 | 0.0195 mg/kg | 100 |
| 64) | 112Triclotha | 10.49 | 83 | 92585 | 0.0099 mg/kg | 97 |
| 65) | Tetrachlorte | 10.75 | 166 | 141455 | 0.0095 mg/kg | 99 |
| 66) | 13Diclorpropa | 10.72 | 76 | 184129 | 0.0101 mg/kg | 98 |
| 68) | 2Hexanone | 10.85 | 43 | 682992 | 0.1062 mg/kg | 98 |
| 69) | Clorodibrmta | 11.03 | 129 | 134043 | 0.0101 mg/kg | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 111172 | 0.0100 mg/kg | 95 |
| 71) | Chlorobenzen | 11.88 | 112 | 364671 | 0.0101 mg/kg | 98 |
| 72) | 1Clhexane | 11.85 | 91 | 173890 | 0.0099 mg/kg | 97 |
| 73) | 1112Tetclota | 11.98 | 131 | 137394 | 0.0103 mg/kg | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 645950 | 0.0104 mg/kg | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 482177 | 0.0205 mg/kg | 99 |
| 76) | o-Xylene | 12.75 | 106 | 233990 | 0.0101 mg/kg | 99 |
| 77) | Styrene | 12.76 | 104 | 396931 | 0.0104 mg/kg | 98 |
| 78) | Bromoform | 13.00 | 173 | 79366 | 0.0100 mg/kg | 97 |
| 79) | Isopropylben | 13.28 | 105 | 613485 | 0.0103 mg/kg | 99 |
| 81) | cyclohexanone | 13.38 | 55 | 210206 | 0.2084 mg/kg | 99 |
| 83) | Bromobenzene | 13.69 | 156 | 163877 | 0.0106 mg/kg | 99 |
| 84) | 1122Tetrclta | 13.65 | 83 | 138588 | 0.0107 mg/kg | 96 |
| 85) | 123Triclproa | 13.71 | 75 | 137949 | 0.0108 mg/kg | 94 |
| 86) | 14dichloro2butene | 13.85 | 53 | 3740 | 0.0088 mg/kg# | 99 |
| 87) | n-Propylbenz | 13.86 | 91 | 720263 | 0.0105 mg/kg | 98 |
| 88) | 2chlorotolue | 13.98 | 91 | 432316 | 0.0105 mg/kg | 100 |
| 89) | 4chlorotolue | 14.13 | 91 | 504213 | 0.0104 mg/kg | 98 |
| 90) | 135Trimebenz | 14.12 | 105 | 507399 | 0.0103 mg/kg | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 437369 | 0.0101 mg/kg | 99 |
| 92) | 124Trimetben | 14.66 | 105 | 511555 | 0.0104 mg/kg | 98 |
| 93) | sbutylbenzen | 14.91 | 105 | 633849 | 0.0105 mg/kg | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 273323 | 0.0102 mg/kg | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 536097 | 0.0102 mg/kg | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 284595 | 0.0105 mg/kg | 98 |
| 97) | 12dichlorobe | 15.72 | 146 | 255738 | 0.0104 mg/kg | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 485906 | 0.0102 mg/kg | 98 |
| 99) | 12dibromo3cl | 16.81 | 157 | 24038 | 0.0101 mg/kg | 99 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 194073 | 0.0097 mg/kg | 98 |
| 101) | 124Trichlobe | 17.94 | 180 | 173259 | 0.0099 mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICV1.D Vial: 13
Acq On : 10 Apr 2025 14:53 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:15:37 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:15:31 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 108009 | 0.0098 | mg/kg | 98 |
| 103) | Naphthalene | 18.25 | 128 | 328050 | 0.0108 | mg/kg | 100 |
| 104) | 123Trichlben | 18.56 | 180 | 157674 | 0.0101 | mg/kg | 99 |

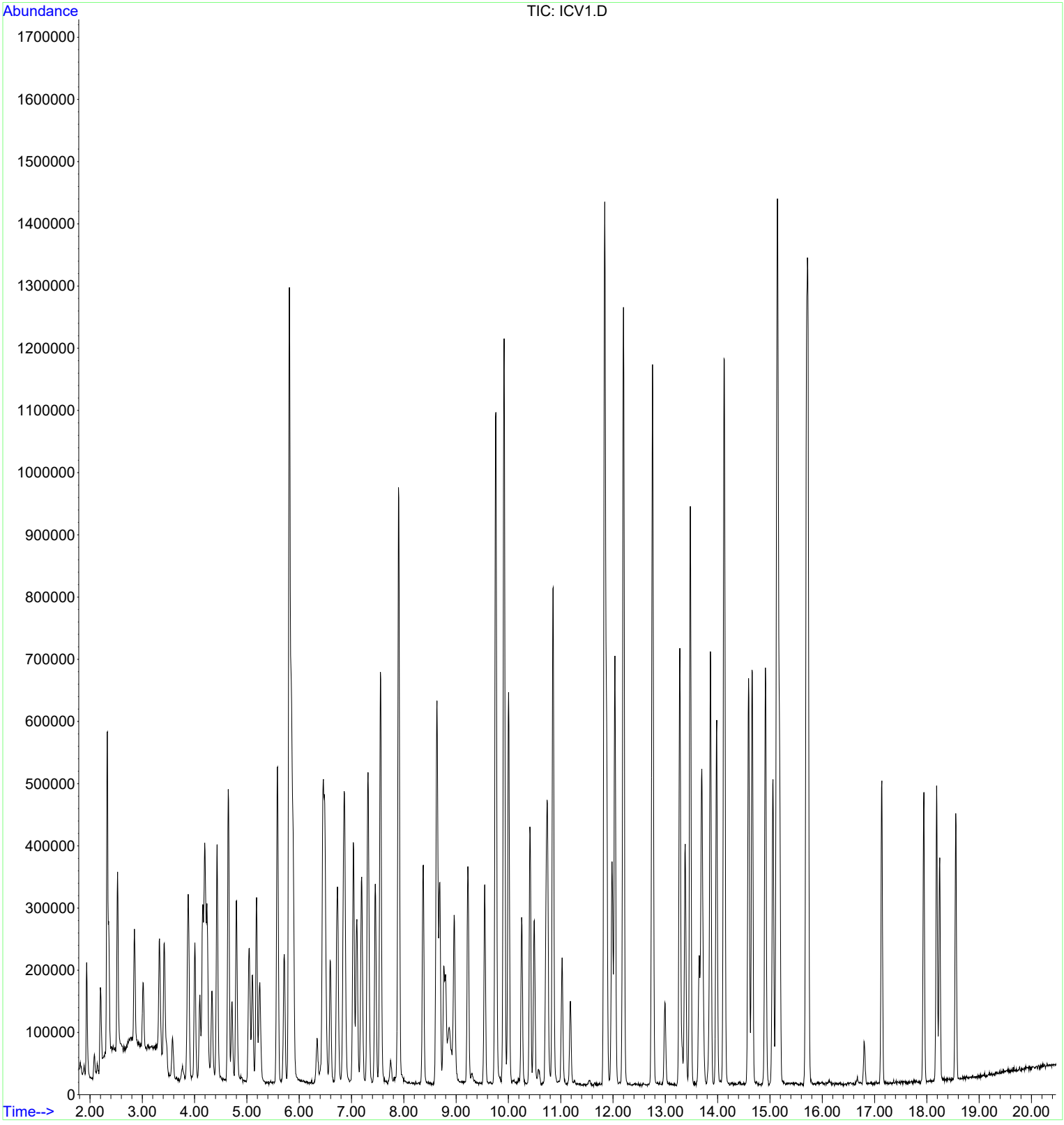
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICV1.D Vial: 13
Acq On : 10 Apr 2025 14:53 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:15:37 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:15:31 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1025\ICV2.D Vial: 14
Acq On : 10 Apr 2025 15:23 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 11 07:16:33 2025

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS041025.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 105 | 0.00 |
| 2 | T | Dichlorodi | 0.3075 | 0.3005 | 2.28 | 102 | 0.00 |
| 3 | PT | Chloromethan | 0.3258 | 0.3097 | 4.94 | 104 | 0.00 |
| 4 | CT | VinylChlorid | 0.3350 | 0.3419 | -2.06 | 108 | 0.00 |
| 5 | T | Bromomethane | 0.2284 | 0.2304 | -0.88 | 113 | 0.00 |
| 6 | T | Chloroethane | 0.1908 | 0.2045 | -7.18 | 107 | 0.00 |
| 7 | T | dichloroflmethane | 0.4336 | 0.4000 | 7.75 | 100 | 0.00 |
| 8 | T | Trichlorofma | 0.4245 | 0.4112 | 3.13 | 100 | 0.00 |
| 9 | T | Ethylether | 0.1881 | 0.1787 | 5.00 | 103 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2634 | 0.2467 | 6.34 | 101 | 0.00 |
| 11 | T | propyleneoxide | 0.0345 | 0.0324 | 6.09 | 100 | 0.00 |
| 12 | T | Acrolein | 0.0378 | 0.0324 | 14.29 | 95 | 0.00 |
| 13 | CT | 11dichlorthe | 0.2327 | 0.2250 | 3.31 | 103 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.2121 | 0.2078 | 2.03 | 102 | 0.00 |
| 15 | T | Acetone | 0.0781 | 0.0636 | 18.57 | 89 | 0.00 |
| 16 | T | Iodomethane | 0.2521 | 0.2536 | -0.60 | 98 | 0.00 |
| 17 | T | Carbon Dislf | 0.5989 | 0.5931 | 0.97 | 103 | 0.00 |
| 18 | T | allylchloride | 0.3494 | 0.3247 | 7.07 | 100 | 0.00 |
| 19 | T | methylacetate | 0.0776 | 0.0734 | 5.41 | 101 | 0.00 |
| 20 | T | Methylchlorid | 0.3017 | 0.2641 | 12.46 | 105 | 0.00 |
| 21 | T | Acrylonitrile | 0.0577 | 0.0523 | 9.36 | 100 | 0.00 |
| 22 | T | t12dichlorte | 0.2644 | 0.2531 | 4.27 | 103 | 0.00 |
| 23 | T | tbutylalcohol | 0.0131 | 0.0122 | 6.87 | 100 | 0.00 |
| 24 | T | MtBE | 0.3747 | 0.3812 | -1.73 | 109 | 0.00 |
| 25 | T | Hexane | 0.3038 | 0.2771 | 8.79 | 98 | 0.00 |
| 26 | PT | 11dichlorota | 0.4631 | 0.4502 | 2.79 | 104 | 0.00 |
| 27 | T | Vinylacetate | 0.4157 | 0.3945 | 5.10 | 110 | 0.00 |
| 28 | T | chloroprene | 0.3731 | 0.3574 | 4.21 | 99 | 0.00 |
| 29 | T | Diisopether | 0.7453 | 0.7210 | 3.26 | 101 | 0.00 |
| 30 | T | ETBE | 0.1314 | 0.1493 | -13.62 | 127 | 0.00 |
| 31 | T | 22dichloropr | 0.3270 | 0.3217 | 1.62 | 104 | 0.00 |
| 32 | T | c12dichlorte | 0.2848 | 0.2719 | 4.53 | 102 | 0.00 |
| 33 | T | 2Butanone | 0.0239 | 0.0211 | 11.72 | 96 | 0.00 |
| 34 | T | propionitrile | 0.0241 | 0.0210 | 12.86 | 96 | 0.00 |
| 35 | T | Ethylacetate | 0.0045 | 0.0041# | 8.89 | 95 | 0.00 |
| 36 | T | methacrylonitrile | 0.0765 | 0.0685 | 10.46 | 96 | 0.00 |
| 37 | T | Bromochlorma | 0.1286 | 0.1214 | 5.60 | 102 | 0.00 |
| 38 | T | Tetrahydofur | 0.0525 | 0.0473 | 9.90 | 96 | 0.00 |
| 39 | CT | Chloroform | 0.4892 | 0.4686 | 4.21 | 102 | 0.00 |
| 40 | T | 111trichlota | 0.4335 | 0.4177 | 3.64 | 103 | 0.00 |
| 41 | S | SURRDibrflma | 0.2699 | 0.2675 | 0.89 | 107 | 0.00 |
| 42 | T | Cyclohexane | 0.3764 | 0.3695 | 1.83 | 102 | 0.00 |
| 43 | T | Carbtetraclo | 0.3749 | 0.3662 | 2.32 | 101 | 0.00 |
| 44 | T | 11dicloprope | 0.1268 | 0.1192 | 5.99 | 103 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0511 | 0.0506 | 0.98 | 104 | 0.00 |
| 46 | T | Benzene | 1.0103 | 0.9746 | 3.53 | 103 | 0.00 |
| 47 | T | 12dichlorota | 0.3470 | 0.3268 | 5.97 | 100 | 0.00 |
| 48 | T | TAME | 0.0542 | 0.0681 | -25.65# | 130 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.2800 | 0.2667 | 4.75 | 101 | 0.00 |
| 50 | T | methylcyclohexane | 0.4133 | 0.3924 | 5.06 | 99 | 0.00 |
| 51 | CT | 12dicloropra | 0.2657 | 0.2630 | 1.02 | 104 | 0.00 |
| 52 | T | 23dicl1propene | 0.4179 | 0.4009 | 4.07 | 98 | 0.00 |
| 53 | T | Dibromometha | 0.1587 | 0.1478 | 6.87 | 99 | 0.00 |
| 54 | T | methylmethacrylate | 0.1401 | 0.1317 | 6.00 | 101 | 0.00 |
| 55 | T | 14dioxane | 0.0021 | 0.0018# | 14.29 | 95 | 0.00 |
| 56 | T | Bromodiclrma | 0.3816 | 0.3591 | 5.90 | 102 | 0.00 |
| 57 | T | 2Nitropropane | 0.0633 | 0.0567 | 10.43 | 97 | 0.00 |
| 58 | T | c13dicloproe | 0.4182 | 0.4001 | 4.33 | 101 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.1794 | 0.1612 | 10.14 | 97 | 0.00 |
| 60 | S | SURRd8Tolule | 1.0200 | 0.9906 | 2.88 | 103 | 0.00 |
| 61 | CT | Toluene | 0.6636 | 0.6230 | 6.12 | 102 | 0.00 |
| 62 | T | t13Dicloprop | 0.3460 | 0.3306 | 4.45 | 101 | 0.00 |
| 63 | T | ethylmethacrylate | 0.2719 | 0.2479 | 8.83 | 97 | 0.00 |
| 64 | T | 112Triclotha | 0.1830 | 0.1680 | 8.20 | 100 | 0.00 |
| 65 | T | Tetrachlorte | 0.2915 | 0.2649 | 9.13 | 101 | 0.00 |
| 66 | T | 13Diclorpropa | 0.3565 | 0.3313 | 7.07 | 101 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 103 | 0.00 |
| 68 | T | 2Hexanone | 0.1593 | 0.1460 | 8.35 | 94 | 0.00 |
| 69 | T | Clorodibrmta | 0.3282 | 0.3201 | 2.47 | 100 | 0.00 |
| 70 | T | 12Dibrometha | 0.2741 | 0.2603 | 5.03 | 100 | 0.00 |
| 71 | PT | Chlorobenzen | 0.8915 | 0.8608 | 3.44 | 100 | 0.00 |
| 72 | T | 1Clhexane | 0.4365 | 0.4079 | 6.55 | 98 | 0.00 |
| 73 | T | 1112Tetclota | 0.3319 | 0.3237 | 2.47 | 99 | 0.00 |
| 74 | CT | Ethylbenzene | 1.5447 | 1.4982 | 3.01 | 101 | 0.00 |
| 75 | T | m p-Xylene | 0.5832 | 0.5629 | 3.48 | 100 | 0.00 |
| 76 | T | o-Xylene | 0.5729 | 0.5555 | 3.04 | 101 | 0.00 |
| 77 | T | Styrene | 0.9417 | 0.9359 | 0.62 | 101 | 0.00 |
| 78 | PT | Bromoform | 0.1960 | 0.1945 | 0.77 | 99 | 0.00 |
| 79 | T | Isopropylben | 1.4781 | 1.4463 | 2.15 | 101 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 101 | 0.00 |
| 81 | T | cyclohexanone | 0.0495 | 0.0457 | 7.68 | 92 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.9694 | 0.9546 | 1.53 | 99 | 0.00 |
| 83 | T | Bromobenzene | 0.7611 | 0.7442 | 2.22 | 97 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.6347 | 0.6158 | 2.98 | 99 | 0.00 |
| 85 | T | 123Triclproa | 0.6237 | 0.6035 | 3.24 | 96 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0237 | 0.0179 | 24.47# | 93 | 0.00 |
| 87 | T | n-Propylbenz | 3.3640 | 3.3318 | 0.96 | 100 | 0.00 |
| 88 | T | 2chlorotolue | 2.0246 | 1.9803 | 2.19 | 99 | 0.00 |
| 89 | T | 4chlorotolue | 2.3839 | 2.3099 | 3.10 | 99 | 0.00 |
| 90 | T | 135Trimebenz | 2.4240 | 2.3855 | 1.59 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 2.1140 | 2.0698 | 2.09 | 100 | 0.00 |
| 92 | T | 124Trimetben | 2.4149 | 2.3500 | 2.69 | 100 | 0.00 |
| 93 | T | sbutylbenzen | 2.9647 | 2.9598 | 0.17 | 98 | 0.00 |
| 94 | T | 13Diclorbenz | 1.3173 | 1.2546 | 4.76 | 97 | 0.00 |
| 95 | T | pIsopropylto | 2.5672 | 2.4732 | 3.66 | 97 | 0.00 |
| 96 | T | 14dichlorobe | 1.3341 | 1.2649 | 5.19 | 98 | 0.00 |
| 97 | T | 12dichlorobe | 1.2111 | 1.1614 | 4.10 | 97 | 0.00 |
| 98 | T | nButylbenzen | 2.3469 | 2.2561 | 3.87 | 96 | 0.00 |
| 99 | T | 12dibromo3cl | 0.1172 | 0.1075 | 8.28 | 89 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.9773 | 0.8805 | 9.90 | 90 | 0.00 |
| 101 | T | 124Trichlobe | 0.8599 | 0.7835 | 8.88 | 90 | 0.00 |
| 102 | T | Hexachlorobu | 0.5414 | 0.5033 | 7.04 | 92 | 0.00 |
| 103 | T | Naphthalene | 1.4897 | 1.4284 | 4.11 | 92 | 0.00 |
| 104 | T | 123Trichlben | 0.7647 | 0.7076 | 7.47 | 93 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS041025.M Wed Apr 16 07:39:22 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1025\ICV2.D Vial: 14
Acq On : 10 Apr 2025 15:23 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 11 07:16:33 2025

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS041025.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 0.0200 | 0.0200 | 0.00 | 105 | 0.00 |
| 2 | T | Dichlorodi | 0.0300 | 0.0293 | 2.33 | 102 | 0.00 |
| 3 | PT | Chloromethan | 0.0300 | 0.0285 | 5.00 | 104 | 0.00 |
| 4 | CT | VinylChlorid | 0.0300 | 0.0306 | -2.00 | 108 | 0.00 |
| 5 | T | Bromomethane | 0.0300 | 0.0303 | -1.00 | 113 | 0.00 |
| 6 | T | Chloroethane | 0.0300 | 0.0322 | -7.33 | 107 | 0.00 |
| 7 | T | dichloroflmethane | 0.0300 | 0.0277 | 7.67 | 100 | 0.00 |
| 8 | T | Trichlorofma | 0.0300 | 0.0291 | 3.00 | 100 | 0.00 |
| 9 | T | Ethylether | 0.0300 | 0.0285 | 5.00 | 103 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.0300 | 0.0281 | 6.33 | 101 | 0.00 |
| 11 | T | propyleneoxide | 0.3000 | 0.2824 | 5.87 | 100 | 0.00 |
| 12 | T | Acrolein | 0.1500 | 0.1287 | 14.20 | 95 | 0.00 |
| 13 | CT | 11dichlorthe | 0.0300 | 0.0290 | 3.33 | 103 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.0600 | 0.0588 | 2.00 | 102 | 0.00 |
| 15 | T | Acetone | 0.3000 | 0.2440 | 18.67 | 89 | 0.00 |
| 16 | T | Iodomethane | 0.0600 | 0.0604 | -0.67 | 98 | 0.00 |
| 17 | T | Carbon Dislf | 0.0600 | 0.0594 | 1.00 | 103 | 0.00 |
| 18 | T | allylchloride | 0.0600 | 0.0558 | 7.00 | 100 | 0.00 |
| 19 | T | methylacetate | 0.0300 | 0.0284 | 5.33 | 101 | 0.00 |
| 20 | T | Methylchlorid | 0.0300 | 0.0300 | 0.00 | 105 | 0.00 |
| 21 | T | Acrylonitrile | 0.1500 | 0.1360 | 9.33 | 100 | 0.00 |
| 22 | T | t12dichlorte | 0.0300 | 0.0287 | 4.33 | 103 | 0.00 |
| 23 | T | tbutylalcohol | 1.5000 | 1.3921 | 7.19 | 100 | 0.00 |
| 24 | T | MtBE | 0.0300 | 0.0305 | -1.67 | 109 | 0.00 |
| 25 | T | Hexane | 0.0600 | 0.0547 | 8.83 | 98 | 0.00 |
| 26 | PT | 11dichlorota | 0.0300 | 0.0292 | 2.67 | 104 | 0.00 |
| 27 | T | Vinylacetate | 0.3000 | 0.2848 | 5.07 | 110 | 0.00 |
| 28 | T | chloroprene | 0.0600 | 0.0575 | 4.17 | 99 | 0.00 |
| 29 | T | Diisopether | 0.0300 | 0.0290 | 3.33 | 101 | 0.00 |
| 30 | T | ETBE | 0.0300 | 0.0333 | -11.00 | 127 | 0.00 |
| 31 | T | 22dichloropr | 0.0300 | 0.0295 | 1.67 | 104 | 0.00 |
| 32 | T | c12dichlorte | 0.0300 | 0.0286 | 4.67 | 102 | 0.00 |
| 33 | T | 2Butanone | 0.3000 | 0.2652 | 11.60 | 96 | 0.00 |
| 34 | T | propionitrile | 0.3000 | 0.2608 | 13.07 | 96 | 0.00 |
| 35 | T | Ethylacetate | 0.1500 | 0.1374 | 8.40 | 95 | 0.00 |
| 36 | T | methacrylonitrile | 0.0600 | 0.0537 | 10.50 | 96 | 0.00 |
| 37 | T | Bromochlorma | 0.0300 | 0.0283 | 5.67 | 102 | 0.00 |
| 38 | T | Tetrahydofur | 0.3000 | 0.2703 | 9.90 | 96 | 0.00 |
| 39 | CT | Chloroform | 0.0300 | 0.0287 | 4.33 | 102 | 0.00 |
| 40 | T | 111trichlota | 0.0300 | 0.0289 | 3.67 | 103 | 0.00 |
| 41 | S | SURRDibrflma | 0.0200 | 0.0198 | 1.00 | 107 | 0.00 |
| 42 | T | Cyclohexane | 0.0300 | 0.0295 | 1.67 | 102 | 0.00 |
| 43 | T | Carbtetraclo | 0.0300 | 0.0293 | 2.33 | 101 | 0.00 |
| 44 | T | 11dicloprope | 0.0300 | 0.0282 | 6.00 | 103 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0200 | 0.0198 | 1.00 | 104 | 0.00 |
| 46 | T | Benzene | 0.0300 | 0.0289 | 3.67 | 103 | 0.00 |
| 47 | T | 12dichlorota | 0.0300 | 0.0282 | 6.00 | 100 | 0.00 |
| 48 | T | TAME | 0.0300 | 0.0342 | -14.00 | 130 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.0300 | 0.0286 | 4.67 | 101 | 0.00 |
| 50 | T | methylcyclohexane | 0.0300 | 0.0285 | 5.00 | 99 | 0.00 |
| 51 | CT | 12dicloropra | 0.0300 | 0.0297 | 1.00 | 104 | 0.00 |
| 52 | T | 23dicl1propene | 0.0300 | 0.0288 | 4.00 | 98 | 0.00 |
| 53 | T | Dibromometha | 0.0300 | 0.0280 | 6.67 | 99 | 0.00 |
| 54 | T | methylmethacrylate | 0.0300 | 0.0282 | 6.00 | 101 | 0.00 |
| 55 | T | 14dioxane | 1.5000 | 1.3279 | 11.47 | 95 | 0.00 |
| 56 | T | Bromodiclrma | 0.0300 | 0.0282 | 6.00 | 102 | 0.00 |
| 57 | T | 2Nitropropane | 0.3000 | 0.2687 | 10.43 | 97 | 0.00 |
| 58 | T | c13dicloproe | 0.0300 | 0.0287 | 4.33 | 101 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.3000 | 0.2695 | 10.17 | 97 | 0.00 |
| 60 | S | SURRd8Tolule | 0.0200 | 0.0194 | 3.00 | 103 | 0.00 |
| 61 | CT | Toluene | 0.0300 | 0.0282 | 6.00 | 102 | 0.00 |
| 62 | T | t13Dicloprop | 0.0300 | 0.0287 | 4.33 | 101 | 0.00 |
| 63 | T | ethylmethacrylate | 0.0600 | 0.0547 | 8.83 | 97 | 0.00 |
| 64 | T | 112Triclotha | 0.0300 | 0.0275 | 8.33 | 100 | 0.00 |
| 65 | T | Tetrachlorte | 0.0300 | 0.0273 | 9.00 | 101 | 0.00 |
| 66 | T | 13Diclorpropa | 0.0300 | 0.0279 | 7.00 | 101 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 0.0200 | 0.0200 | 0.00 | 103 | 0.00 |
| 68 | T | 2Hexanone | 0.3000 | 0.2751 | 8.30 | 94 | 0.00 |
| 69 | T | Clorodibrmta | 0.0300 | 0.0293 | 2.33 | 100 | 0.00 |
| 70 | T | 12Dibrometha | 0.0300 | 0.0285 | 5.00 | 100 | 0.00 |
| 71 | PT | Chlorobenzen | 0.0300 | 0.0290 | 3.33 | 100 | 0.00 |
| 72 | T | 1Clhexane | 0.0300 | 0.0280 | 6.67 | 98 | 0.00 |
| 73 | T | 1112Tetclota | 0.0300 | 0.0293 | 2.33 | 99 | 0.00 |
| 74 | CT | Ethylbenzene | 0.0300 | 0.0291 | 3.00 | 101 | 0.00 |
| 75 | T | m p-Xylene | 0.0600 | 0.0579 | 3.50 | 100 | 0.00 |
| 76 | T | o-Xylene | 0.0300 | 0.0291 | 3.00 | 101 | 0.00 |
| 77 | T | Styrene | 0.0300 | 0.0298 | 0.67 | 101 | 0.00 |
| 78 | PT | Bromoform | 0.0300 | 0.0298 | 0.67 | 99 | 0.00 |
| 79 | T | Isopropylben | 0.0300 | 0.0294 | 2.00 | 101 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 0.0200 | 0.0200 | 0.00 | 101 | 0.00 |
| 81 | T | cyclohexanone | 0.6000 | 0.5541 | 7.65 | 92 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.0200 | 0.0197 | 1.50 | 99 | 0.00 |
| 83 | T | Bromobenzene | 0.0300 | 0.0293 | 2.33 | 97 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.0300 | 0.0291 | 3.00 | 99 | 0.00 |
| 85 | T | 123Triclproa | 0.0300 | 0.0290 | 3.33 | 96 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0300 | 0.0302 | -0.67 | 93 | 0.00 |
| 87 | T | n-Propylbenz | 0.0300 | 0.0297 | 1.00 | 100 | 0.00 |
| 88 | T | 2chlorotolue | 0.0300 | 0.0293 | 2.33 | 99 | 0.00 |
| 89 | T | 4chlorotolue | 0.0300 | 0.0291 | 3.00 | 99 | 0.00 |
| 90 | T | 135Trimebenz | 0.0300 | 0.0295 | 1.67 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 0.0300 | 0.0294 | 2.00 | 100 | 0.00 |
| 92 | T | 124Trimetben | 0.0300 | 0.0292 | 2.67 | 100 | 0.00 |
| 93 | T | sbutylbenzen | 0.0300 | 0.0300 | 0.00 | 98 | 0.00 |
| 94 | T | 13Diclorbenz | 0.0300 | 0.0286 | 4.67 | 97 | 0.00 |
| 95 | T | pIsopropylto | 0.0300 | 0.0289 | 3.67 | 97 | 0.00 |
| 96 | T | 14dichlorobe | 0.0300 | 0.0284 | 5.33 | 98 | 0.00 |
| 97 | T | 12dichlorobe | 0.0300 | 0.0288 | 4.00 | 97 | 0.00 |
| 98 | T | nButylbenzen | 0.0300 | 0.0288 | 4.00 | 96 | 0.00 |
| 99 | T | 12dibromo3cl | 0.0300 | 0.0275 | 8.33 | 89 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.0300 | 0.0270 | 10.00 | 90 | 0.00 |
| 101 | T | 124Trichlobe | 0.0300 | 0.0273 | 9.00 | 90 | 0.00 |
| 102 | T | Hexachlorobu | 0.0300 | 0.0279 | 7.00 | 92 | 0.00 |
| 103 | T | Naphthalene | 0.0300 | 0.0288 | 4.00 | 92 | 0.00 |
| 104 | T | 123Trichlben | 0.0300 | 0.0278 | 7.33 | 93 | 0.00 |

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(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS041025.M Wed Apr 16 07:39:00 2025

Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICV2.D Vial: 14
Acq On : 10 Apr 2025 15:23 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:16:33 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1053728 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 831699 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 421283 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 281893 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 53290 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1043840 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 402146 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 474977 | 0.0293 | mg/kg | 99 |
| 3) Chloromethan | 2.20 | 50 | 489516 | 0.0285 | mg/kg | 98 |
| 4) VinylChlorid | 2.36 | 62 | 540449 | 0.0306 | mg/kg | 98 |
| 5) Bromomethane | 2.85 | 94 | 364162 | 0.0303 | mg/kg | 95 |
| 6) Chloroethane | 3.02 | 64 | 323191 | 0.0322 | mg/kg | 97 |
| 7) dichloroflmethane | 3.32 | 67 | 632238 | 0.0277 | mg/kg | 97 |
| 8) Trichlorofma | 3.42 | 101 | 649989 | 0.0291 | mg/kg | 99 |
| 9) Ethylether | 3.88 | 59 | 282480 | 0.0285 | mg/kg | 99 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 389924 | 0.0281 | mg/kg | 99 |
| 11) propyleneoxide | 4.10 | 58 | 512886 | 0.2824 | mg/kg | 95 |
| 12) Acrolein | 4.01 | 56 | 256211 | 0.1287 | mg/kg | 99 |
| 13) 11dichlorthe | 4.16 | 96 | 355597 | 0.0290 | mg/kg | 99 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 656820 | 0.0588 | mg/kg | 98 |
| 15) Acetone | 4.24 | 43 | 1004635 | 0.2440 | mg/kg | 98 |
| 16) Iodomethane | 4.33 | 142 | 801615 | 0.0604 | mg/kg | 98 |
| 17) Carbon Dislf | 4.43 | 76 | 1875036 | 0.0594 | mg/kg | 99 |
| 18) allylchloride | 4.64 | 41 | 1026534 | 0.0558 | mg/kg | 98 |
| 19) methylacetate | 4.72 | 74 | 116059 | 0.0284 | mg/kg | 99 |
| 20) Methylchlorid | 4.80 | 84 | 417417 | 0.0300 | mg/kg | 99 |
| 21) Acrylonitrile | 5.11 | 53 | 413055 | 0.1360 | mg/kg | 99 |
| 22) t12dichlorte | 5.19 | 96 | 400071 | 0.0287 | mg/kg | 97 |
| 23) tbutylalcohol | 5.04 | 59 | 964186 | 1.3921 | mg/kg | 98 |
| 24) MtBE | 5.25 | 73 | 602450 | 0.0305 | mg/kg | 98 |
| 25) Hexane | 5.59 | 57 | 876038 | 0.0547 | mg/kg | 98 |
| 26) 11dichlorota | 5.71 | 63 | 711512 | 0.0292 | mg/kg | 98 |
| 27) Vinylacetate | 5.81 | 43 | 6236221 | 0.2848 | mg/kg | 98 |
| 28) chloroprene | 5.85 | 53 | 1129652 | 0.0575 | mg/kg | 99 |
| 29) Diisopether | 5.88 | 45 | 1139648 | 0.0290 | mg/kg# | 100 |
| 30) ETBE | 6.34 | 59 | 235981 | 0.0333 | mg/kg | 98 |
| 31) 22dichloropr | 6.46 | 77 | 508445 | 0.0295 | mg/kg | 98 |
| 32) c12dichlorte | 6.46 | 96 | 429788 | 0.0286 | mg/kg | 99 |
| 33) 2Butanone | 6.49 | 72 | 333775 | 0.2652 | mg/kg | 100 |
| 34) propionitrile | 6.51 | 54 | 331827 | 0.2608 | mg/kg | 97 |
| 35) Ethylacetate | 6.59 | 88 | 32496 | 0.1374 | mg/kg | 92 |
| 36) methacrylonitrile | 6.72 | 67 | 216582 | 0.0537 | mg/kg | 98 |
| 37) Bromochlorma | 6.74 | 128 | 191869 | 0.0283 | mg/kg | 99 |
| 38) Tetrahydofur | 6.86 | 42 | 747212 | 0.2703 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICV2.D Vial: 14
Acq On : 10 Apr 2025 15:23 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:16:33 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 740713 | 0.0287 | mg/kg | 98 |
| 40) | 111trichlota | 7.10 | 97 | 660275 | 0.0289 | mg/kg | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 584050 | 0.0295 | mg/kg | 99 |
| 43) | Carbtetraclo | 7.33 | 119 | 578757 | 0.0293 | mg/kg | 99 |
| 44) | 11dicloprope | 7.31 | 110 | 188331 | 0.0282 | mg/kg | 98 |
| 46) | Benzene | 7.56 | 78 | 1540405 | 0.0289 | mg/kg | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 515765 | 0.0282 | mg/kg | 98 |
| 48) | TAME | 7.75 | 73 | 107686 | 0.0342 | mg/kg | 93 |
| 49) | trichloroete | 8.37 | 95 | 421570 | 0.0286 | mg/kg | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 620259 | 0.0285 | mg/kg | 98 |
| 51) | 12dicloropra | 8.62 | 63 | 415679 | 0.0297 | mg/kg | 95 |
| 52) | 23dicl1propene | 8.69 | 75 | 633639 | 0.0288 | mg/kg | 99 |
| 53) | Dibromometha | 8.77 | 93 | 233639 | 0.0280 | mg/kg | 97 |
| 54) | methylmethacrylate | 8.80 | 69 | 208111 | 0.0282 | mg/kg | 99 |
| 55) | 14dioxane | 8.84 | 88 | 145744 | 1.3279 | mg/kg | 98 |
| 56) | Bromodiclrma | 8.96 | 83 | 567651 | 0.0282 | mg/kg | 98 |
| 57) | 2Nitropropane | 9.23 | 43 | 895993 | 0.2687 | mg/kg | 99 |
| 58) | c13dicloproe | 9.55 | 75 | 632334 | 0.0287 | mg/kg | 100 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 2547630 | 0.2695 | mg/kg | 97 |
| 61) | Toluene | 10.00 | 92 | 984630 | 0.0282 | mg/kg | 100 |
| 62) | t13Dicloprop | 10.25 | 75 | 522591 | 0.0287 | mg/kg | 96 |
| 63) | ethylmethacrylate | 10.41 | 69 | 783809 | 0.0547 | mg/kg | 99 |
| 64) | 112Triclotha | 10.50 | 83 | 265552 | 0.0275 | mg/kg | 95 |
| 65) | Tetrachlorte | 10.75 | 166 | 418751 | 0.0273 | mg/kg | 99 |
| 66) | 13Diclorpropa | 10.72 | 76 | 523577 | 0.0279 | mg/kg | 98 |
| 68) | 2Hexanone | 10.85 | 43 | 1821965 | 0.2751 | mg/kg | 100 |
| 69) | Clorodibrmta | 11.03 | 129 | 399379 | 0.0293 | mg/kg | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 324798 | 0.0285 | mg/kg | 97 |
| 71) | Chlorobenzen | 11.88 | 112 | 1073846 | 0.0290 | mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 508879 | 0.0280 | mg/kg | 97 |
| 73) | 1112Tetclota | 11.98 | 131 | 403808 | 0.0293 | mg/kg | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 1869092 | 0.0291 | mg/kg | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 1404453 | 0.0579 | mg/kg | 100 |
| 76) | o-Xylene | 12.75 | 106 | 692989 | 0.0291 | mg/kg | 99 |
| 77) | Styrene | 12.76 | 104 | 1167576 | 0.0298 | mg/kg | 99 |
| 78) | Bromoform | 12.99 | 173 | 242701 | 0.0298 | mg/kg | 99 |
| 79) | Isopropylben | 13.28 | 105 | 1804305 | 0.0294 | mg/kg | 99 |
| 81) | cyclohexanone | 13.38 | 55 | 577543 | 0.5541 | mg/kg | 98 |
| 83) | Bromobenzene | 13.69 | 156 | 470291 | 0.0293 | mg/kg | 97 |
| 84) | 1122Tetrclta | 13.65 | 83 | 389168 | 0.0291 | mg/kg | 98 |
| 85) | 123Triclproa | 13.71 | 75 | 381348 | 0.0290 | mg/kg | 95 |
| 86) | 14dichloro2butene | 13.87 | 53 | 11289 | 0.0302 | mg/kg# | 100 |
| 87) | n-Propylbenz | 13.87 | 91 | 2105421 | 0.0297 | mg/kg | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 1251426 | 0.0293 | mg/kg | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 1459674 | 0.0291 | mg/kg | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 1507449 | 0.0295 | mg/kg | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 1307931 | 0.0294 | mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 1485039 | 0.0292 | mg/kg | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 1870381 | 0.0300 | mg/kg | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 792801 | 0.0286 | mg/kg | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 1562894 | 0.0289 | mg/kg | 100 |
| 96) | 14dichlorobe | 15.19 | 146 | 799339 | 0.0284 | mg/kg | 99 |
| 97) | 12dichlorobe | 15.72 | 146 | 733926 | 0.0288 | mg/kg | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 1425670 | 0.0288 | mg/kg | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 67946 | 0.0275 | mg/kg | 100 |
| 100) | 135Trichlorobenzene | 17.13 | 180 | 556434 | 0.0270 | mg/kg | 98 |
| 101) | 124Trichlobe | 17.94 | 180 | 495089 | 0.0273 | mg/kg | 100 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICV2.D Vial: 14
Acq On : 10 Apr 2025 15:23 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:16:33 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 318060 | 0.0279 | mg/kg | 99 |
| 103) Naphthalene | 18.25 | 128 | 902656 | 0.0288 | mg/kg | 99 |
| 104) 123Trichlben | 18.55 | 180 | 447126 | 0.0278 | mg/kg | 99 |

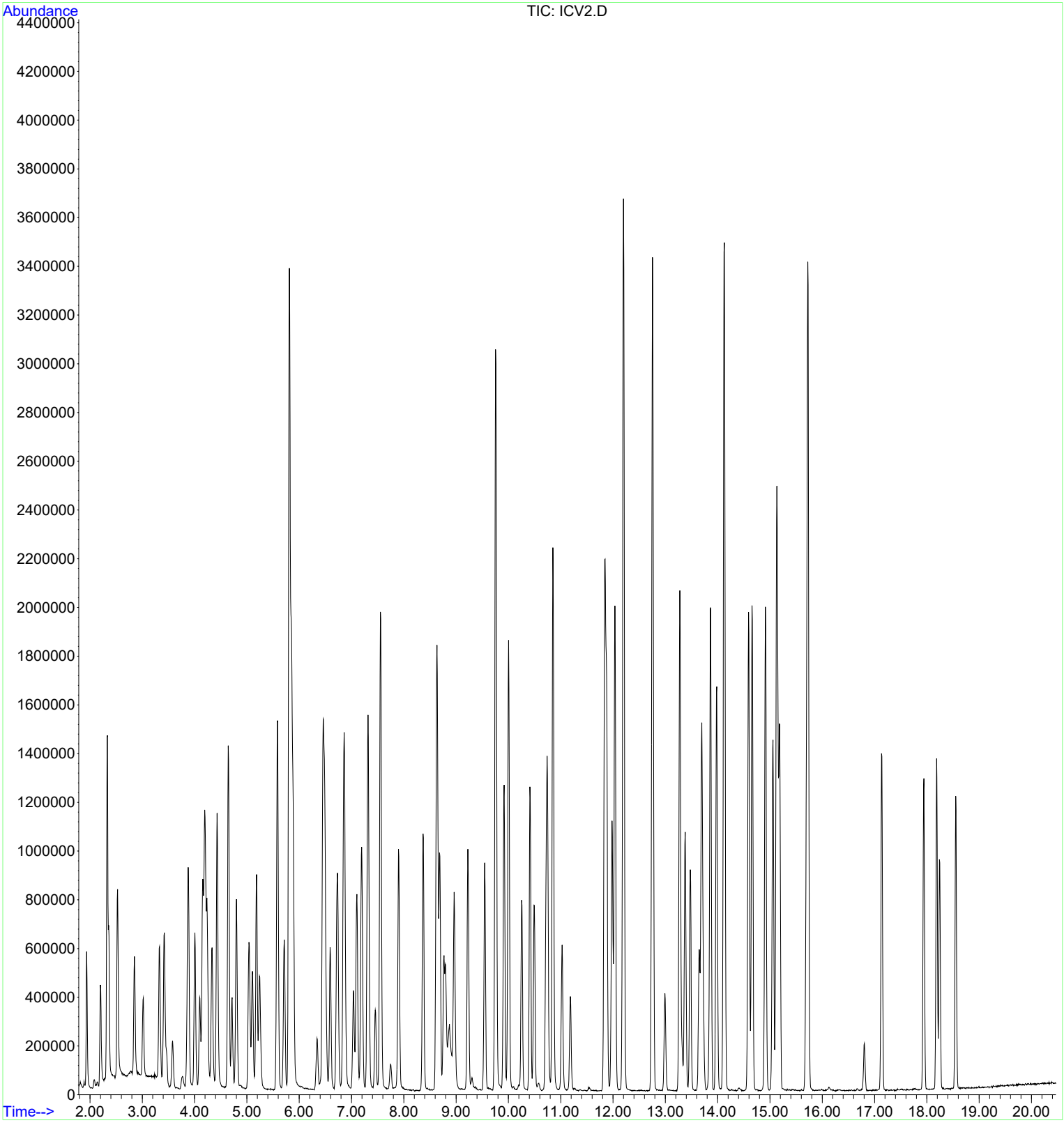
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICV2.D Vial: 14
Acq On : 10 Apr 2025 15:23 Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.300 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:16:33 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICB1.D  Vial: 18
Acq On : 10 Apr 2025 17:19  Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK  Inst : VMS4
Misc : 5.00g, 15.0 ml DI H2O Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:16:55 2025  Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 985376 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 768282 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 380718 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 262133 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 51206 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 971814 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 360144 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 3294 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 4387 | N.D. | | |
| 4) VinylChlorid | 2.36 | 62 | 1317 | N.D. | | |
| 5) Bromomethane | 2.86 | 94 | 2130 | N.D. | | |
| 6) Chloroethane | 2.97 | 64 | 14860 | 0.0016 | mg/kg# | 57 |
| 7) dichloroflmethane | 3.33 | 67 | 1672 | N.D. | | |
| 8) Trichlorofma | 3.42 | 101 | 1665 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 3.87 | 67 | 1567 | N.D. | | |
| 11) propyleneoxide | 4.10 | 58 | 4023 | N.D. | | |
| 12) Acrolein | 4.03 | 56 | 1016 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.25 | 43 | 23968 | N.D. | | |
| 16) Iodomethane | 4.34 | 142 | 3568 | N.D. | | |
| 17) Carbon Dislf | 4.42 | 76 | 3188 | N.D. | | |
| 18) allylchloride | 0.00 | 41 | 0 | N.D. | | |
| 19) methylacetate | 0.00 | 74 | 0 | N.D. | | |
| 20) Methylchlorid | 4.79 | 84 | 5887 | Below | Cal | 94 |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 5.19 | 96 | 1190 | N.D. | | |
| 23) tbutylalcohol | 5.04 | 59 | 5883 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 5.58 | 57 | 1568 | N.D. | | |
| 26) 11dichlorota | 5.71 | 63 | 1201 | N.D. | | |
| 27) Vinylacetate | 5.81 | 43 | 3007 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 5.82 | 45 | 1788 | N.D. | | |
| 30) ETBE | 6.41 | 59 | 2571 | N.D. | | |
| 31) 22dichloropr | 6.40 | 77 | 3613 | N.D. | | |
| 32) c12dichlorte | 6.49 | 96 | 1071 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.90 | 42 | 2135 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICB1.D  Vial: 18
Acq On : 10 Apr 2025 17:19  Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK  Inst : VMS4
Misc : 5.00g, 15.0 ml DI H2O Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:16:55 2025  Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.83 | 83 | 1931 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 7.15 | 56 | 1336 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 7.56 | 78 | 2360 | N.D. | |
| 47) | 12dichlorota | 7.56 | 62 | 1403 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 9.22 | 43 | 2764 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 9.75 | 43 | 3815 | N.D. | |
| 61) | Toluene | 10.02 | 92 | 2416 | N.D. | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 10.48 | 69 | 1002 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 10.86 | 43 | 5820 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 11.87 | 112 | 1065 | N.D. | |
| 72) | 1Clhexane | 11.84 | 91 | 2274 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 12.04 | 91 | 3530 | N.D. | |
| 75) | m p-Xylene | 12.19 | 106 | 2982 | N.D. | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | |
| 77) | Styrene | 12.77 | 104 | 2531 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 13.28 | 105 | 2908 | N.D. | |
| 81) | cyclohexanone | 13.39 | 55 | 1826 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 13.87 | 91 | 3880 | N.D. | |
| 88) | 2chlorotolue | 13.98 | 91 | 1788 | N.D. | |
| 89) | 4chlorotolue | 14.13 | 91 | 3097 | N.D. | |
| 90) | 135Trimebenz | 14.12 | 105 | 2701 | N.D. | |
| 91) | tbutylbenzen | 14.59 | 119 | 1382 | N.D. | |
| 92) | 124Trimetben | 14.66 | 105 | 5191 | N.D. | |
| 93) | sbutylbenzen | 14.91 | 105 | 2955 | N.D. | |
| 94) | 13Diclorbenz | 15.05 | 146 | 1772 | N.D. | |
| 95) | pIsopropylto | 15.13 | 119 | 3158 | N.D. | |
| 96) | 14dichlorobe | 15.19 | 146 | 1990 | N.D. | |
| 97) | 12dichlorobe | 15.72 | 146 | 1878 | N.D. | |
| 98) | nButylbenzen | 15.72 | 91 | 4413 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 1115 | N.D. | |
| 101) | 124Trichlobe | 17.94 | 180 | 2541 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICB1.D  Vial: 18
Acq On : 10 Apr 2025 17:19  Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK  Inst : VMS4
Misc : 5.00g, 15.0 ml DI H2O Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:16:55 2025  Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | |
| 103) Naphthalene | 18.24 | 128 | 9099 | N.D. | |
| 104) 123Trichlben | 18.55 | 180 | 1733 | N.D. | |

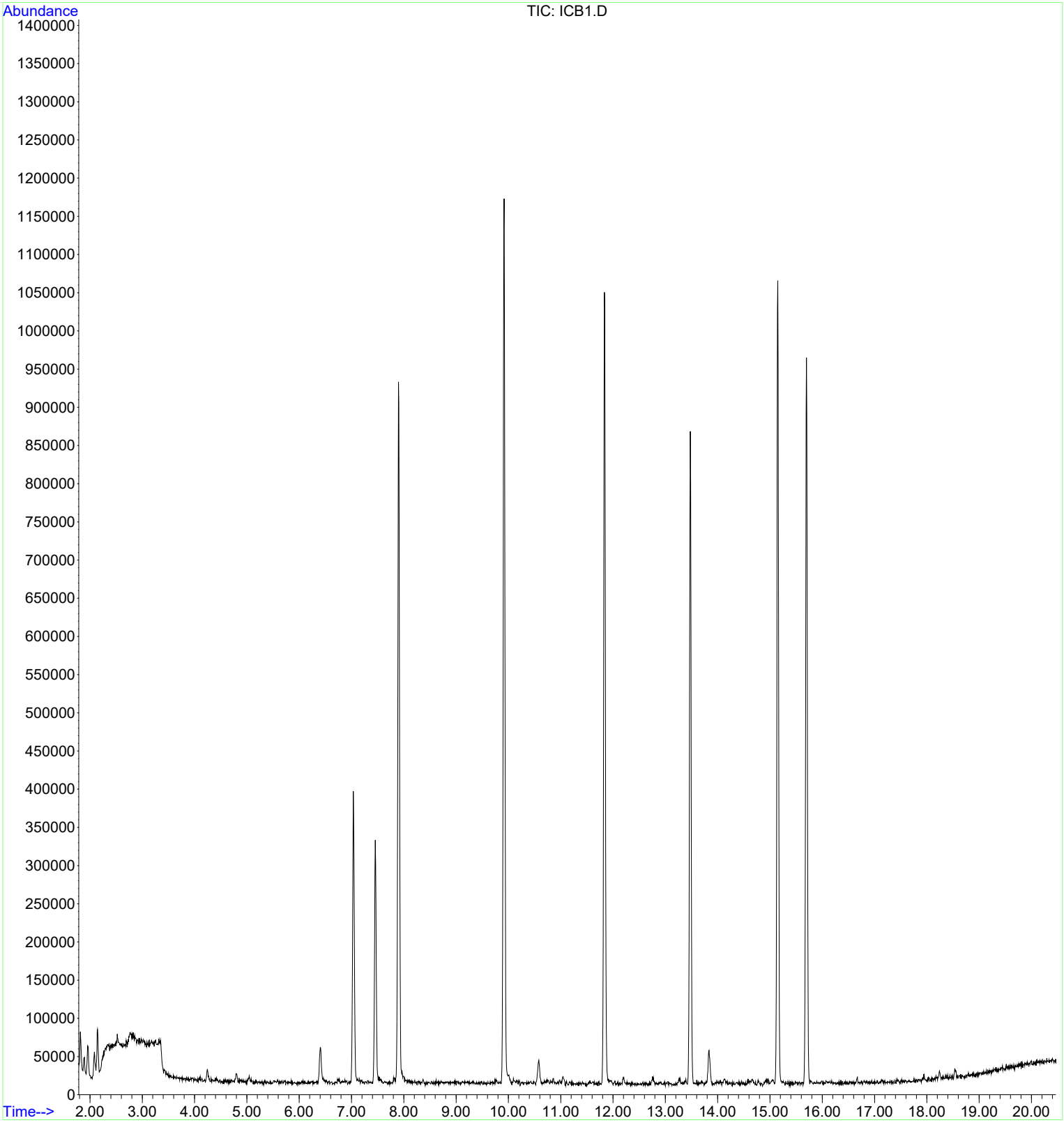
(#) = qualifier out of range (m) = manual integration

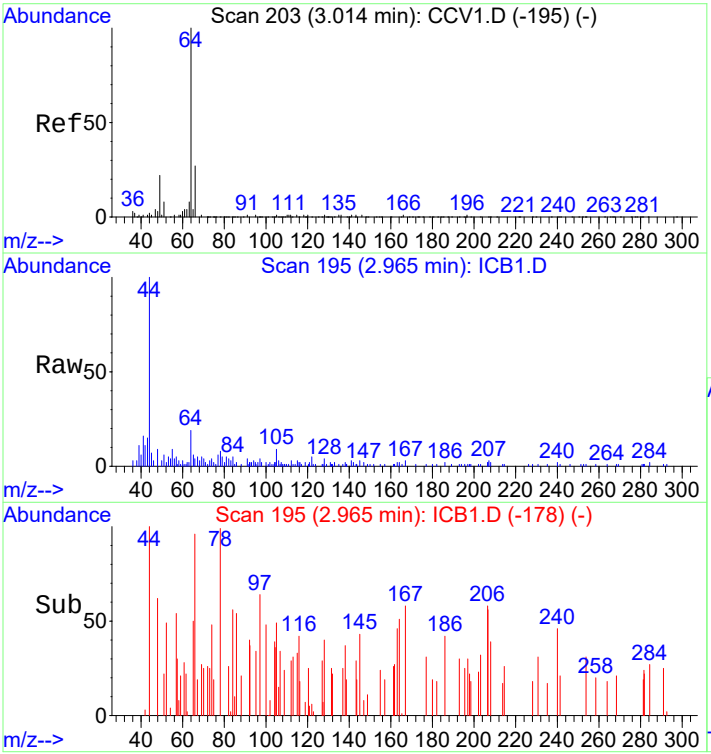
Quantitation Report

Data File : C:\Instarch\Data\APR1025\ICB1.D  Vial: 18
Acq On : 10 Apr 2025 17:19  Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK  Inst : VMS4
Misc : 5.00g, 15.0 ml DI H2O Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 07:16:55 2025  Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

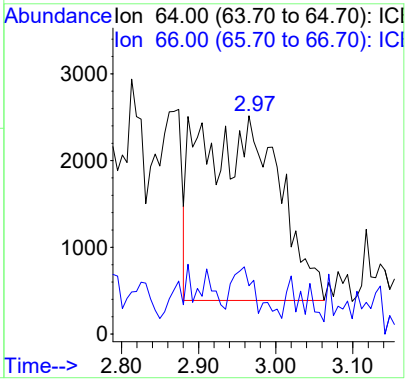





#6
Chloroethane
Concen: 0.00 mg/kg
RT: 2.97 min Scan# 195
Delta R.T. -0.05 min
Lab File: ICB1.D
Acq: 10 Apr 2025 17:19

Tgt Ion: 64 Resp: 14860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 8.5 | 13.1 | 53.1# |




Negative Library Identification

Response Factor Report VMS4

Method Path : C:\INSTARCH\METHODS\
Method File : LW041325.M
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response Via : Initial Calibration

04/17/2025

Calibration Files ug/L
1 0.100/1.00 =LLCALW1.D 2 0.200/2.00 =LLCALW2.D 3 0.500/5.00 =LLCALW3.D
4 1.00/10.00 =LLCALW4.D 5 2.00/20.00 =LLCALW5.D 6 4.00/40.00 =LLCALW6.D
7 6.00/60.00 =LLCALW7.D 8 8.00/80.00 =LLCALW8.D 9 16.00/160 =LLCALW9.D

| | | Compound | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 8 | 9 | | | | | | | |
| 1) | I | FLUOROBENZENE**ISTD** | ----------ISTD---------- | | | | | | | | |
| 2) | PT | Dichlorodi | 0.263 | 0.306 | 0.239 | 0.260 | 0.281 | 0.288 | 0.267 | 0.275 | 7.34 |
| | | | 0.293 | 0.276 | | | | | | | |
| 3) | PT | Chloromethan | 0.442 | 0.325 | 0.366 | 0.338 | 0.323 | 0.317 | 0.309 | 0.336 | 13.27 |
| | | | 0.319 | 0.289 | | | | | | | |
| 4) | PT | VinylChlorid | 0.403 | 0.357 | 0.334 | 0.324 | 0.334 | 0.342 | 0.323 | 0.342 | 7.59 |
| | | | 0.342 | 0.317 | | | | | | | |
| 5) | PT | Bromomethane | | 0.271 | 0.245 | 0.228 | 0.206 | 0.198 | 0.194 | 0.218 | 12.82 |
| | | | 0.203 | 0.196 | | | | | | | |
| 6) | PT | Chloroethane | | 0.271 | 0.224 | 0.217 | 0.210 | 0.208 | 0.189 | 0.214 | 12.38 |
| | | | 0.201 | 0.188 | | | | | | | |
| 7) | T | Dichloroflmetha | 0.566 | 0.425 | 0.438 | 0.408 | 0.419 | 0.412 | 0.381 | 0.426 | 13.10 |
| | | | 0.402 | 0.380 | | | | | | | |
| 8) | PT | Trichlorofma | 0.362 | 0.423 | 0.343 | 0.368 | 0.397 | 0.408 | 0.372 | 0.384 | 6.72 |
| | | | 0.404 | 0.380 | | | | | | | |
| 9) | T | Ethylether | 0.159 | 0.145 | 0.140 | 0.127 | 0.129 | 0.126 | 0.128 | 0.133 | 9.26 |
| | | | 0.127 | 0.120 | | | | | | | |
| 10) | T | dichlorotfluoro | 0.249 | 0.278 | 0.248 | 0.262 | 0.274 | 0.268 | 0.252 | 0.262 | 4.28 |
| | | | 0.270 | 0.254 | | | | | | | |
| 11) | T | propyleneoxide | | 0.017 | 0.019 | 0.017 | 0.017 | 0.017 | 0.018 | 0.018# | 3.79 |
| | | | 0.018 | 0.017 | | | | | | | |
| 12) | T | Acrolein | | 0.026 | 0.019 | 0.021 | 0.019 | 0.017 | 0.018 | 0.019# | 14.54 |
| | | | 0.018 | 0.016 | | | | | | | |
| 13) | PT | 11dichlorthe | 0.269 | 0.242 | 0.218 | 0.213 | 0.220 | 0.223 | 0.214 | 0.227 | 7.93 |
| | | | 0.224 | 0.218 | | | | | | | |
| 14) | PT | Trichlorotfluor | 0.187 | 0.227 | 0.181 | 0.194 | 0.212 | 0.217 | 0.204 | 0.206 | 7.59 |
| | | | 0.218 | 0.210 | | | | | | | |
| 15) | PT | Acetone | 0.053 | 0.046 | 0.047 | 0.042 | 0.043 | 0.038 | 0.039 | 0.043# | 10.86 |
| | | | 0.041 | 0.039 | | | | | | | |
| 16) | T | Iodomethane | 0.225 | 0.198 | 0.220 | 0.220 | 0.245 | 0.267 | 0.278 | 0.246 | 12.71 |
| | | | 0.284 | 0.273 | | | | | | | |
| 17) | PT | Carbon Dislf | 0.536 | 0.457 | 0.433 | 0.418 | 0.442 | 0.445 | 0.437 | 0.451 | 7.64 |
| | | | 0.456 | 0.430 | | | | | | | |
| 18) | T | allylchloride | 0.376 | 0.327 | 0.345 | 0.313 | 0.322 | 0.318 | 0.315 | 0.325 | 7.00 |
| | | | 0.316 | 0.297 | | | | | | | |
| 19) | PT | methylacetate | | 0.039 | 0.040 | 0.038 | 0.037 | 0.034 | 0.036 | 0.037# | 6.32 |
| | | | 0.036 | 0.033 | | | | | | | |
| 20) | PT | Methylchlorid | 0.422 | 0.294 | 0.280 | 0.245 | 0.229 | 0.225 | 0.228 | ----- | |
| | | | 0.228 | 0.208 | | | | | | | |
| | | | | | | | | Q | A= -0.008 R=1.000 | | |
| | | | | | | | | | B= 0.238 | | |
| | | | | | | | | | C= 0.002 | | |
| 21) | T | tbutylalcohol | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006# | 6.45 |
| | | | 0.006 | 0.006 | | | | | | | |
| 22) | T | Acrylonitrile | | 0.027 | 0.031 | 0.030 | 0.027 | 0.026 | 0.027 | 0.028# | 7.11 |
| | | | 0.027 | 0.026 | | | | | | | |
| 23) | PT | t12dichlorte | 0.298 | 0.258 | 0.239 | 0.235 | 0.235 | 0.233 | 0.234 | 0.243 | 9.20 |
| | | | 0.235 | 0.224 | | | | | | | |
| 24) | PT | MtBE | 0.282 | 0.285 | 0.283 | 0.261 | 0.258 | 0.257 | 0.270 | 0.270 | 4.07 |
| | | | 0.268 | 0.265 | | | | | | | |
| 25) | T | Hexane | 0.279 | 0.322 | 0.264 | 0.274 | 0.315 | 0.322 | 0.298 | 0.302 | 8.03 |
| | | | 0.331 | 0.313 | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 26) | PT | 11dichlorota | 0.526 | 0.457 | 0.473 | 0.436 | 0.435 | 0.433 | 0.434 | 0.448 | 7.70 |
| | | | 0.436 | 0.405 | | | | | | | |
| 27) | T | Vinylacetate | 0.192 | 0.199 | 0.198 | 0.234 | 0.171 | 0.165 | 0.165 | 0.186 | 13.56 |
| | | | 0.160 | | | | | | | | |
| 28) | T | chloroprene | 0.367 | 0.349 | 0.336 | 0.328 | 0.352 | 0.355 | 0.343 | 0.347 | 3.57 |
| | | | 0.356 | 0.336 | | | | | | | |
| 29) | T | Diisopether | 0.699 | 0.627 | 0.666 | 0.607 | 0.624 | 0.612 | 0.627 | 0.630 | 5.47 |
| | | | 0.622 | 0.581 | | | | | | | |
| 30) | T | ETBE | 0.140 | 0.139 | 0.144 | 0.130 | 0.130 | 0.133 | 0.145 | 0.141 | 6.69 |
| | | | 0.147 | 0.159 | | | | | | | |
| 31) | T | 22dichloropr | 0.312 | 0.357 | 0.327 | 0.326 | 0.322 | 0.314 | 0.316 | 0.323 | 4.38 |
| | | | 0.321 | 0.311 | | | | | | | |
| 32) | PT | c12dichlorte | 0.311 | 0.260 | 0.280 | 0.262 | 0.257 | 0.251 | 0.262 | 0.266 | 7.36 |
| | | | 0.260 | 0.246 | | | | | | | |
| 33) | PT | 2Butanone | | 0.011 | 0.013 | 0.012 | 0.013 | 0.012 | 0.012 | 0.012# | 5.12 |
| | | | 0.013 | 0.012 | | | | | | | |
| 34) | T | propionitrile | | 0.011 | 0.012 | 0.010 | 0.011 | 0.010 | 0.011 | 0.011# | 5.47 |
| | | | 0.011 | 0.010 | | | | | | | |
| 35) | T | Ethylacetate | | 0.002 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002# | 10.51 |
| | | | 0.002 | 0.002 | | | | | | | |
| 36) | T | methacrylonitri | | 0.041 | 0.040 | 0.038 | 0.038 | 0.035 | 0.037 | 0.038 | 4.73 |
| | | | 0.038 | 0.036 | | | | | | | |
| 37) | T | Bromochlorma | 0.116 | 0.081 | 0.107 | 0.100 | 0.096 | 0.097 | 0.096 | 0.097 | 10.39 |
| | | | 0.097 | 0.087 | | | | | | | |
| 38) | T | Tetrahydofur | 0.032 | 0.026 | 0.025 | 0.023 | 0.022 | 0.022 | 0.022 | 0.024# | 14.35 |
| | | | 0.023 | 0.021 | | | | | | | |
| 39) | PT | Chloroform | 0.535 | 0.503 | 0.486 | 0.452 | 0.434 | 0.430 | 0.433 | 0.457 | 9.21 |
| | | | 0.432 | 0.405 | | | | | | | |
| 40) | PT | 111trichlota | 0.441 | 0.378 | 0.393 | 0.386 | 0.396 | 0.405 | 0.393 | 0.398 | 4.66 |
| | | | 0.407 | 0.385 | | | | | | | |
| 41) | S | SURRDibrflma | 0.244 | 0.251 | 0.248 | 0.249 | 0.249 | 0.254 | 0.249 | 0.250 | 1.23 |
| | | | 0.250 | 0.254 | | | | | | | |
| 42) | PT | Cyclohexane | 0.357 | 0.408 | 0.340 | 0.346 | 0.379 | 0.395 | 0.365 | 0.374 | 6.29 |
| | | | 0.397 | 0.380 | | | | | | | |
| 43) | PT | Carbtetraclo | 0.360 | 0.352 | 0.325 | 0.330 | 0.351 | 0.355 | 0.341 | 0.347 | 3.87 |
| | | | 0.366 | 0.347 | | | | | | | |
| 44) | T | 11dicloprope | | 0.119 | 0.114 | 0.110 | 0.119 | 0.121 | 0.118 | 0.118 | 3.74 |
| | | | 0.125 | 0.119 | | | | | | | |
| 45) | S | SURR12DCAd4 | 0.042 | 0.042 | 0.044 | 0.044 | 0.042 | 0.042 | 0.043 | 0.043 | 2.50 |
| | | | 0.041 | 0.043 | | | | | | | |
| 46) | PT | Benzene | 1.230 | 0.987 | 1.046 | 0.996 | 0.978 | 0.971 | 0.966 | 1.005 | 9.26 |
| | | | 0.971 | 0.896 | | | | | | | |
| 47) | PT | 12dichlorota | 0.297 | 0.250 | 0.260 | 0.238 | 0.236 | 0.223 | 0.233 | 0.243 | 10.06 |
| | | | 0.231 | 0.215 | | | | | | | |
| 48) | T | TAME | 0.060 | 0.049 | 0.065 | 0.056 | 0.053 | 0.059 | 0.066 | 0.061 | 13.51 |
| | | | 0.069 | 0.075 | | | | | | | |
| 49) | PT | trichloroete | 0.319 | 0.263 | 0.274 | 0.263 | 0.261 | 0.261 | 0.259 | 0.270 | 7.12 |
| | | | 0.271 | 0.258 | | | | | | | |
| 50) | PT | methylcyclohexa | 0.413 | 0.422 | 0.384 | 0.387 | 0.443 | 0.450 | 0.419 | 0.425 | 6.54 |
| | | | 0.466 | 0.437 | | | | | | | |
| 51) | PT | 12dicloropra | 0.276 | 0.229 | 0.259 | 0.239 | 0.246 | 0.232 | 0.240 | 0.243 | 6.51 |
| | | | 0.240 | 0.226 | | | | | | | |
| 52) | T | 23Dicl1propene | 0.424 | 0.372 | 0.381 | 0.366 | 0.353 | 0.364 | 0.376 | 0.371 | 6.26 |
| | | | 0.361 | 0.340 | | | | | | | |
| 53) | T | Dibromometha | 0.119 | 0.111 | 0.102 | 0.095 | 0.096 | 0.095 | 0.097 | 0.101 | 8.63 |
| | | | 0.099 | 0.092 | | | | | | | |
| 54) | T | methylmethacryl | | 0.068 | 0.080 | 0.073 | 0.071 | 0.069 | 0.068 | 0.071 | 5.75 |
| | | | 0.069 | 0.067 | | | | | | | |
| 55) | T | 14dioxane | | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001# | 11.67 |
| | | | 0.001 | 0.001 | | | | | | | |
| 56) | PT | Bromodiclrma | 0.343 | 0.310 | 0.317 | 0.289 | 0.292 | 0.291 | 0.302 | 0.302 | 6.24 |
| | | | 0.294 | 0.281 | | | | | | | |
| 57) | T | 2Nitropropane | | 0.026 | 0.026 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025# | 3.22 |
| | | | 0.026 | 0.025 | | | | | | | |
| 58) | PT | c13dicloproe | 0.362 | 0.306 | 0.333 | 0.305 | 0.313 | 0.318 | 0.326 | 0.321 | 5.70 |
| | | | 0.326 | 0.305 | | | | | | | |
| 59) | PT | 4Meth2Pentan | 0.085 | 0.079 | 0.085 | 0.078 | 0.078 | 0.075 | 0.079 | 0.079# | 5.17 |
| | | | 0.078 | 0.072 | | | | | | | |
| 60) | S | SURRd8Tolule | 0.983 | 0.999 | 0.995 | 0.992 | 0.998 | 0.996 | 1.002 | 0.998 | 0.76 |
| | | | 1.007 | 1.007 | | | | | | | |

```
61) PT  Toluene          0.712 0.611 0.641 0.629 0.632 0.624 0.626 0.631   5.53
                         0.624 0.580
62) PT  t13Dicloprop           0.234 0.240 0.217 0.220 0.220 0.231 0.228   3.75
                         0.235 0.223
63) T   ethylmethacryla        0.130 0.155 0.138 0.136 0.140 0.146 0.142   5.27
                         0.147 0.140
64) PT  112Triclotha           0.112 0.129 0.111 0.110 0.110 0.114 0.114   5.89
                         0.115 0.108
65) PT  Tetrachlorte     0.313 0.269 0.282 0.278 0.279 0.285 0.278 0.283   4.49
                         0.290 0.275
66) T   13Diclorpropa   0.267 0.244 0.236 0.232 0.232 0.220 0.232 0.234   6.31
                         0.232 0.215

67) I   d5-CHLOROBENZENE**IST ----------------ISTD--------------------
68) PT  2Hexanone        0.095 0.078 0.085 0.076 0.085 0.077 0.080 0.082#  7.57
                         0.082 0.077
69) PT  Clorodibrmta     0.268 0.215 0.243 0.229 0.230 0.233 0.243 0.237   6.24
                         0.244 0.231
70) PT  12Dibrometha     0.195 0.185 0.181 0.165 0.172 0.168 0.176 0.176   5.83
                         0.177 0.163
71) PT  Chlorobenzen     0.991 0.863 0.932 0.866 0.880 0.862 0.878 0.884   5.83
                         0.877 0.806
72) T   1Clhexane        0.560 0.497 0.428 0.412 0.452 0.465 0.440 0.464   9.54
                         0.476 0.444
73) T   1112Tetclota            0.292 0.321 0.294 0.295 0.299 0.302 0.298   3.56
                         0.302 0.285
74) PT  Ethylbenzene     1.934 1.586 1.638 1.568 1.626 1.595 1.585 1.620   8.07
                         1.603 1.442
75) PT  m p-Xylene       0.716 0.594 0.631 0.597 0.622 0.614 0.617 0.622   6.33
                         0.628 0.577
76) PT  o-Xylene         0.690 0.587 0.613 0.571 0.602 0.582 0.596 0.600   6.34
                         0.605 0.556
77) PT  Styrene          0.972 0.805 0.914 0.837 0.890 0.895 0.931 0.894   5.79
                         0.934 0.868
78) PT  Bromoform              0.093 0.121 0.104 0.110 0.114 0.118 0.112   8.57
                         0.120 0.117
79) PT  Isopropylben     1.761 1.573 1.582 1.491 1.585 1.604 1.571 1.580   5.39
                         1.599 1.453
80) T   cyclohexanone         0.017 0.020 0.017 0.018 0.017 0.018 0.018#  5.30
                         0.019 0.018

81) I   d4-1,4-DICHLOROBENZEN ----------------ISTD--------------------
82) S   SURR4BrFBenz     0.923 0.906 0.921 0.905 0.918 0.887 0.891 0.899   2.29
                         0.865 0.877
83) T   Bromobenzene     0.772 0.654 0.755 0.669 0.674 0.668 0.670 0.681   7.34
                         0.651 0.616
84) PT  1122Tetrclta     0.474 0.346 0.360 0.359 0.353 0.345 0.350 0.361  12.27
                         0.341 0.318
85) T   123Triclproa           0.405 0.423 0.355 0.379 0.362 0.370 0.375   7.00
                         0.363 0.346
86) T   14dichloro2bute        0.015 0.019 0.026 0.022 0.022 0.024 ----- #
                         0.024 0.026
                                                  Q  A=  0.001 R=1.000
                                                     B=  0.022
                                                     C= -0.000
87) T   n-Propylbenz     4.228 3.538 3.680 3.522 3.711 3.677 3.590 3.628   7.52
                         3.513 3.193
88) T   2chlorotolue     2.416 2.145 2.236 2.095 2.109 2.050 2.065 2.105   7.47
                         1.972 1.860
89) T   4chlorotolue     2.754 2.226 2.474 2.385 2.395 2.343 2.345 2.375   7.15
                         2.297 2.159
90) T   135Trimebenz     3.001 2.573 2.629 2.482 2.581 2.614 2.577 2.594   6.72
                         2.536 2.351
91) T   tbutylbenzen     2.622 2.195 2.213 2.148 2.242 2.278 2.210 2.235   7.18
                         2.178 2.032
92) T   124Trimetben     2.749 2.439 2.637 2.470 2.530 2.485 2.510 2.506   5.26
                         2.455 2.275
93) T   sbutylbenzen     3.580 3.109 3.095 3.142 3.267 3.328 3.219 3.209   5.45
                         3.183 2.960
94) PT  13Diclorbenz     1.418 1.258 1.352 1.246 1.250 1.236 1.252 1.269   5.68
```

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1.239 | 1.173 | | | | | | |
| 95) | T | pIsopropylto | 3.024 | 2.615 | 2.670 | 2.633 | 2.806 | 2.837 | 2.791 | 2.744 | 5.15 |
| | | | 2.756 | 2.565 | | | | | | |
| 96) | PT | 14dichlorobe | 1.546 | 1.173 | 1.262 | 1.223 | 1.230 | 1.218 | 1.228 | 1.247 | 9.43 |
| | | | 1.208 | 1.138 | | | | | | |
| 97) | PT | 12dichlorobe | 1.286 | 1.075 | 1.134 | 1.082 | 1.088 | 1.056 | 1.062 | 1.093 | 7.36 |
| | | | 1.050 | 1.003 | | | | | | |
| 98) | T | nButylbenzen | 2.823 | 2.389 | 2.290 | 2.385 | 2.450 | 2.527 | 2.481 | 2.464 | 6.29 |
| | | | 2.491 | 2.340 | | | | | | |
| 99) | PT | 12dibromo3cl | | 0.065 | 0.058 | 0.058 | 0.053 | 0.052 | 0.054 | 0.056 | 7.61 |
| | | | 0.055 | 0.053 | | | | | | |
| 100) | T | 135Trichloroben | 1.043 | 0.803 | 0.904 | 0.849 | 0.881 | 0.881 | 0.906 | 0.891 | 7.34 |
| | | | 0.889 | 0.861 | | | | | | |
| 101) | PT | 124Trichlobe | 0.655 | 0.574 | 0.633 | 0.556 | 0.593 | 0.607 | 0.630 | 0.610 | 5.09 |
| | | | 0.627 | 0.613 | | | | | | |
| 102) | T | Hexachlorobu | 0.509 | 0.445 | 0.395 | 0.405 | 0.463 | 0.457 | 0.452 | 0.448 | 7.43 |
| | | | 0.457 | 0.451 | | | | | | |
| 103) | T | Naphthalene | 0.911 | 0.748 | 0.789 | 0.744 | 0.757 | 0.788 | 0.837 | 0.802 | 6.70 |
| | | | 0.839 | 0.806 | | | | | | |
| 104) | T | 123Trichlben | 0.514 | 0.434 | 0.470 | 0.446 | 0.453 | 0.463 | 0.485 | 0.469 | 5.18 |
| | | | 0.488 | 0.466 | | | | | | |

Total Average %RSD 7.09

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

LW041325.M Wed Apr 16 08:12:13 2025

BFB

Data File : C:\Instarch\Data\APR1325\BFB1.D  Vial: 1
Acq On : 13 Apr 2025 8:05  Operator: RLD-DGS
Sample : BFB DIRECT INJ.  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW041325.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.917 to 4.923 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.5 | 16548 | PASS |
| 75 | 95 | 30 | 60 | 56.1 | 56126 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 100000 | PASS |
| 96 | 95 | 5 | 9 | 5.9 | 5948 | PASS |
| 173 | 174 | 0.00 | 2 | 0.7 | 571 | PASS |
| 174 | 95 | 50 | 100 | 83.2 | 83200 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 6348 | PASS |
| 176 | 174 | 95 | 101 | 100.0 | 83237 | PASS |
| 177 | 176 | 5 | 9 | 8.7 | 7235 | PASS |

LW041325.M Wed Apr 16 08:11:24 2025

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW1.D Vial: 5
Acq On : 13 Apr 2025 9:45 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.10/1.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:32:56 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:24:42 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1219996 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 894661 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 439981 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 297735 | 3.908 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 98 | % | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 51315 | 3.935 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 98 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1199510 | 3.942 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 406237 | 4.107 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 103 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 8013 | 0.0956 | ug/L | 90 |
| 3) Chloromethan | 2.20 | 50 | 13469m | 0.1255 | ug/L | 94 |
| 4) VinylChlorid | 2.36 | 62 | 12294 | 0.1179 | ug/L | 68 |
| 5) Bromomethane | 2.86 | 94 | 12822 | 0.1933 | ug/L | 84 |
| 6) Chloroethane | 3.01 | 64 | 10889 | 0.1672 | ug/L | 97 |
| 7) Dichloroflmethane | 3.32 | 67 | 17251 | 0.1329 | ug/L | 93 |
| 8) Trichlorofma | 3.43 | 101 | 11051 | 0.0943 | ug/L | 92 |
| 9) Ethylether | 3.89 | 59 | 4861 | 0.1195 | ug/L # | 84 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 7598 | 0.0952 | ug/L | 89 |
| 11) propyleneoxide | 4.10 | 58 | 7450 | 1.3907 | ug/L # | 76 |
| 12) Acrolein | 4.01 | 56 | 5504 | 0.9356 | ug/L # | 68 |
| 13) 11dichlorthe | 4.16 | 96 | 8205 | 0.1186 | ug/L # | 81 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 11383 | 0.1816 | ug/L | 97 |
| 15) Acetone | 4.24 | 43 | 16021m | 1.1594 | ug/L | 93 |
| 16) Iodomethane | 4.33 | 142 | 13749 | 0.1836 | ug/L | 95 |
| 17) Carbon Dislf | 4.43 | 76 | 32713 | 0.2381 | ug/L | 95 |
| 18) allylchloride | 4.64 | 41 | 22942 | 0.2312 | ug/L | 94 |
| 19) methylacetate | 4.72 | 74 | 746 | 0.0669 | ug/L # | 4 |
| 20) Methylchlorid | 4.80 | 84 | 12863m | 0.1586 | ug/L | 97 |
| 21) tbutylalcohol | 5.04 | 59 | 9659 | 5.6323 | ug/L | 72 |
| 22) Acrylonitrile | 5.10 | 53 | 5099 | 0.6063 | ug/L | 95 |
| 23) t12dichlorte | 5.18 | 96 | 9096 | 0.1225 | ug/L | 90 |
| 24) MtBE | 5.23 | 73 | 8613 | 0.1046 | ug/L # | 52 |
| 25) Hexane | 5.59 | 57 | 17012 | 0.1847 | ug/L | 93 |
| 26) 11dichlorota | 5.71 | 63 | 16040 | 0.1173 | ug/L | 91 |
| 27) Vinylacetate | 5.81 | 43 | 58596 | 1.0667 | ug/L | 100 |
| 28) chloroprene | 5.84 | 53 | 22401 | 0.2118 | ug/L | 96 |
| 29) Diisopether | 5.89 | 45 | 21333 | 0.1111 | ug/L | 99 |
| 30) ETBE | 6.34 | 59 | 4284 | 0.0998 | ug/L | 91 |
| 31) 22dichloropr | 6.46 | 77 | 9525m | 0.0892 | ug/L | 78 |
| 32) c12dichlorte | 6.46 | 96 | 9499 | 0.1173 | ug/L | 97 |
| 33) 2Butanone | 6.50 | 72 | 4937 | 1.3427 | ug/L | 85 |
| 34) propionitrile | 6.51 | 54 | 3750 | 1.1474 | ug/L | 82 |
| 35) Ethylacetate | 6.59 | 88 | 157m | 0.2399 | ug/L # | 0 |
| 36) methacrylonitrile | 6.72 | 67 | 3127 | 0.2709 | ug/L | 99 |
| 37) Bromochlorma | 6.74 | 128 | 3526 | 0.1187 | ug/L | 91 |
| 38) Tetrahydofur | 6.88 | 42 | 9904 | 1.3417 | ug/L | 95 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW1.D Vial: 5
Acq On : 13 Apr 2025 9:45 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.10/1.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:32:56 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:24:42 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc Unit | | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 16313 | 0.1171 ug/L | | 95 |
| 40) | 111trichlota | 7.09 | 97 | 13452 | 0.1108 ug/L | | 96 |
| 42) | Cyclohexane | 7.19 | 56 | 10892 | 0.0954 ug/L | | 94 |
| 43) | Carbtetraclo | 7.33 | 119 | 10973 | 0.1036 ug/L | | 98 |
| 44) | 11dicloprope | 7.31 | 110 | 4180 | 0.1160 ug/L | # | 86 |
| 46) | Benzene | 7.56 | 78 | 37525 | 0.1225 ug/L | | 90 |
| 47) | 12dichlorota | 7.55 | 62 | 9063 | 0.1225 ug/L | | 87 |
| 48) | TAME | 7.75 | 73 | 1827m | 0.0949 ug/L | # | 64 |
| 49) | trichloroete | 8.37 | 95 | 9736 | 0.1182 ug/L | | 98 |
| 50) | methylcyclohexane | 8.64 | 83 | 12603 | 0.0973 ug/L | | 93 |
| 51) | 12dicloropra | 8.62 | 63 | 8417 | 0.1136 ug/L | | 96 |
| 52) | 23Dicl1propene | 8.68 | 75 | 12918 | 0.1142 ug/L | | 81 |
| 53) | Dibromometha | 8.78 | 93 | 3621 | 0.1179 ug/L | | 99 |
| 54) | methylmethacrylate | 8.80 | 69 | 2452m | 0.1137 ug/L | | 95 |
| 55) | 14dioxane | 8.85 | 88 | 1494m | 5.6102 ug/L | # | 83 |
| 56) | Bromodiclrma | 8.96 | 83 | 10468 | 0.1136 ug/L | | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 10955 | 1.4174 ug/L | | 95 |
| 58) | c13dicloproe | 9.55 | 75 | 11033 | 0.1125 ug/L | | 95 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 26068 | 1.0848 ug/L | | 97 |
| 61) | Toluene | 10.00 | 92 | 21702 | 0.1128 ug/L | | 94 |
| 62) | t13Dicloprop | 10.26 | 75 | 8198 | 0.1181 ug/L | # | 57 |
| 63) | ethylmethacrylate | 10.41 | 69 | 9736 | 0.2256 ug/L | | 87 |
| 64) | 112Triclotha | 10.49 | 83 | 4148 | 0.1196 ug/L | | 89 |
| 65) | Tetrachlorte | 10.75 | 166 | 9560 | 0.1106 ug/L | | 97 |
| 66) | 13Diclorpropa | 10.72 | 76 | 8133 | 0.1138 ug/L | | 94 |
| 68) | 2Hexanone | 10.86 | 43 | 21344 | 1.1663 ug/L | | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 5999 | 0.1130 ug/L | | 96 |
| 70) | 12Dibrometha | 11.18 | 107 | 4367 | 0.1111 ug/L | | 94 |
| 71) | Chlorobenzen | 11.87 | 112 | 22174 | 0.1122 ug/L | | 98 |
| 72) | 1Clhexane | 11.84 | 91 | 12534 | 0.1208 ug/L | # | 30 |
| 73) | 1112Tetclota | 11.98 | 131 | 7800 | 0.1169 ug/L | | 97 |
| 74) | Ethylbenzene | 12.04 | 91 | 43261 | 0.1194 ug/L | | 98 |
| 75) | m p-Xylene | 12.19 | 106 | 32020 | 0.2302 ug/L | | 93 |
| 76) | o-Xylene | 12.75 | 106 | 15440 | 0.1150 ug/L | | 97 |
| 77) | Styrene | 12.77 | 104 | 21745 | 0.1087 ug/L | | 93 |
| 78) | Bromoform | 13.00 | 173 | 3138 | 0.1252 ug/L | | 90 |
| 79) | Isopropylben | 13.28 | 105 | 39394 | 0.1115 ug/L | | 98 |
| 80) | cyclohexanone | 13.38 | 55 | 10188 | 2.5378 ug/L | | 97 |
| 83) | Bromobenzene | 13.68 | 156 | 8488 | 0.1133 ug/L | | 97 |
| 84) | 1122Tetrclta | 13.64 | 83 | 5213 | 0.1314 ug/L | | 96 |
| 85) | 123Triclproa | 13.71 | 75 | 4771 | 0.1156 ug/L | | 96 |
| 86) | 14dichloro2butene | 13.73 | 53 | 187m | 0.0721 ug/L | # | 0 |
| 87) | n-Propylbenz | 13.86 | 91 | 46506 | 0.1165 ug/L | | 97 |
| 88) | 2chlorotolue | 13.98 | 91 | 26580 | 0.1148 ug/L | | 93 |
| 89) | 4chlorotolue | 14.12 | 91 | 30289 | 0.1159 ug/L | | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 33009 | 0.1157 ug/L | | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 28838 | 0.1173 ug/L | | 98 |
| 92) | 124Trimetben | 14.66 | 105 | 30240 | 0.1097 ug/L | | 97 |
| 93) | sbutylbenzen | 14.92 | 105 | 39380 | 0.1116 ug/L | | 93 |
| 94) | 13Diclorbenz | 15.05 | 146 | 15599 | 0.1117 ug/L | | 95 |
| 95) | pIsopropylto | 15.13 | 119 | 33260 | 0.1102 ug/L | | 96 |
| 96) | 14dichlorobe | 15.19 | 146 | 17007 | 0.1240 ug/L | # | 79 |
| 97) | 12dichlorobe | 15.73 | 146 | 14148 | 0.1177 ug/L | # | 64 |
| 98) | nButylbenzen | 15.72 | 91 | 31056 | 0.1146 ug/L | | 96 |
| 99) | 12dibromo3cl | 16.79 | 157 | 695 | 0.1224 ug/L | # | 9 |
| 100) | 135Trichlorobenzene | 17.13 | 180 | 11473 | 0.1171 ug/L | | 97 |
| 101) | 124Trichlobe | 17.95 | 180 | 7203 | 0.1074 ug/L | | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\Instarch\Data\APR1325\LLCALW1.D Vial: 5
Acq On : 13 Apr 2025 9:45 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.10/1.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:32:56 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:24:42 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 5600 | 0.1136 | ug/L | 94 |
| 103) | Naphthalene | 18.25 | 128 | 10025 | 0.1136 | ug/L | 92 |
| 104) | 123Trichlben | 18.56 | 180 | 5659 | 0.1097 | ug/L | 88 |

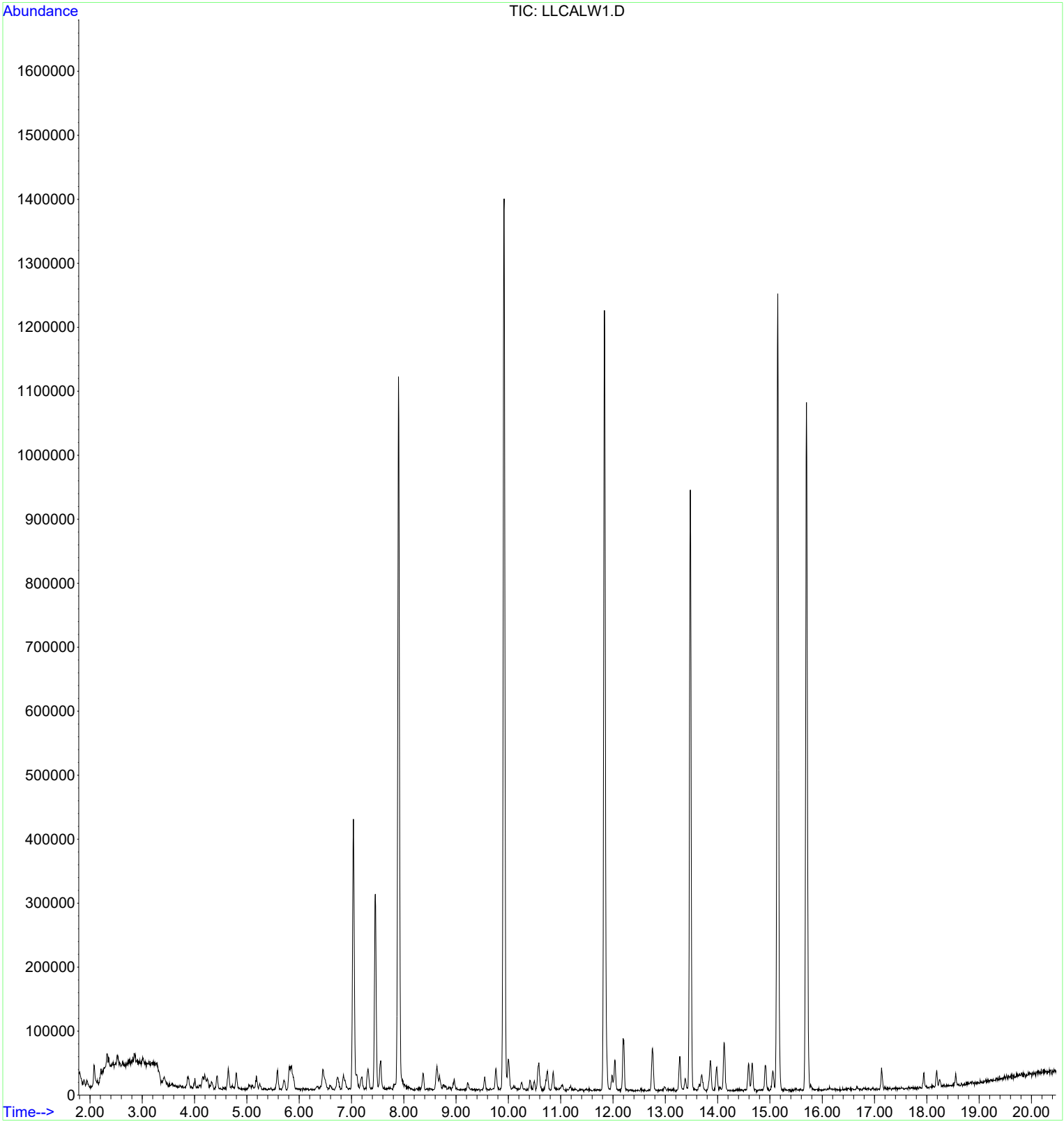
(#) = qualifier out of range (m) = manual integration

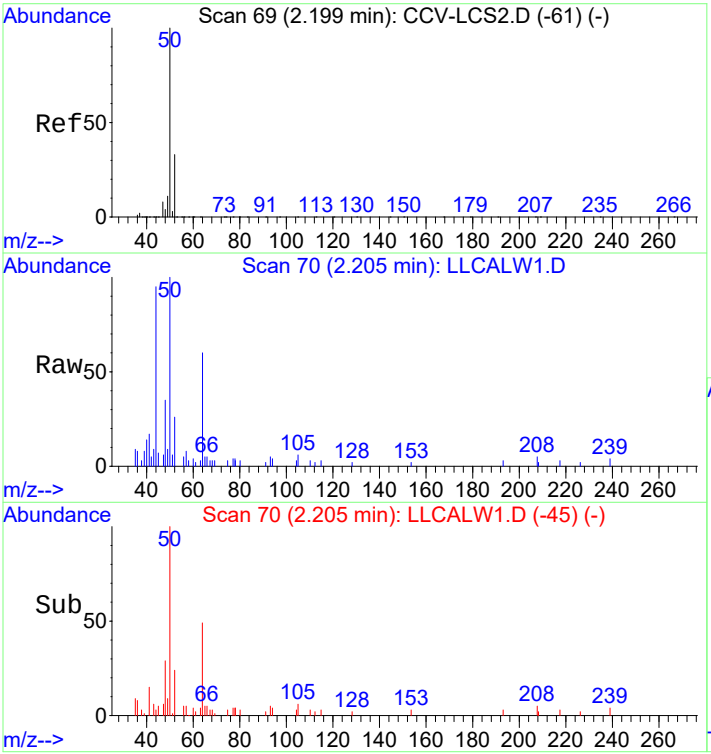
Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW1.D Vial: 5
Acq On : 13 Apr 2025 9:45 Operator: RLD-DGS
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.10/1.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:32:56 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:24:42 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

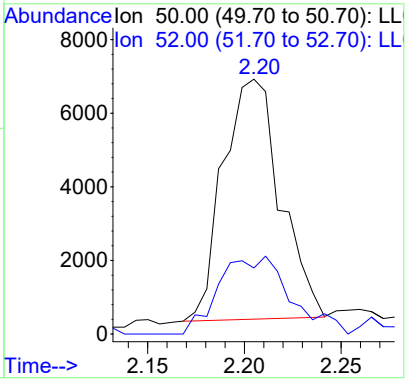





#3
Chloromethan
Concen: 0.13 ug/L m
RT: 2.20 min Scan# 70
Delta R.T. -0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

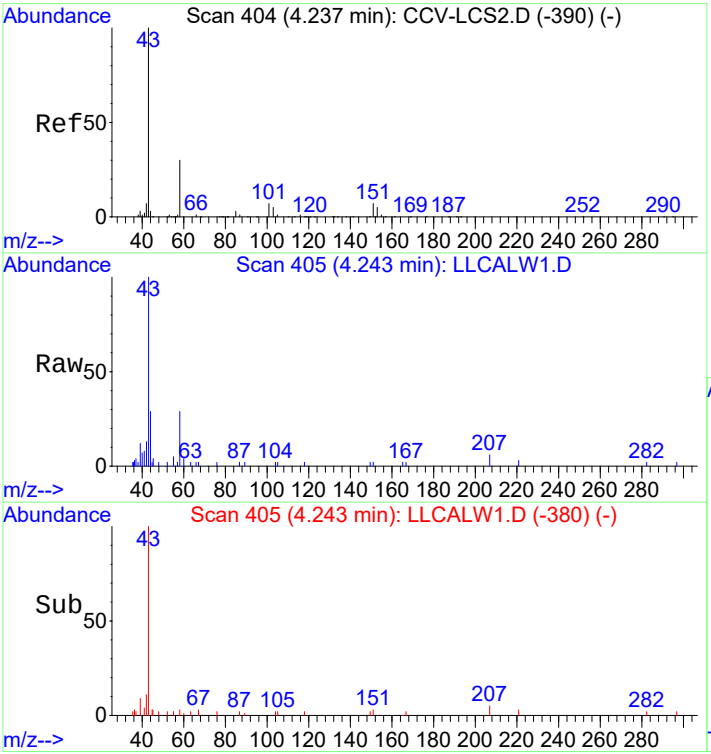
Tgt Ion: 50 Resp: 13469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 40.3 | 13.0 | 53.0 |




After Manual Integration

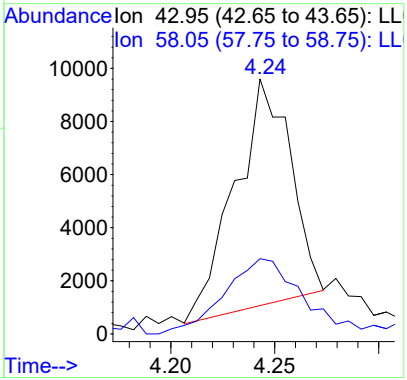
RO 04/16/2025




#15
Acetone
Concen: 1.16 ug/L m
RT: 4.24 min Scan# 405
Delta R.T. -0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 43 Resp: 16021

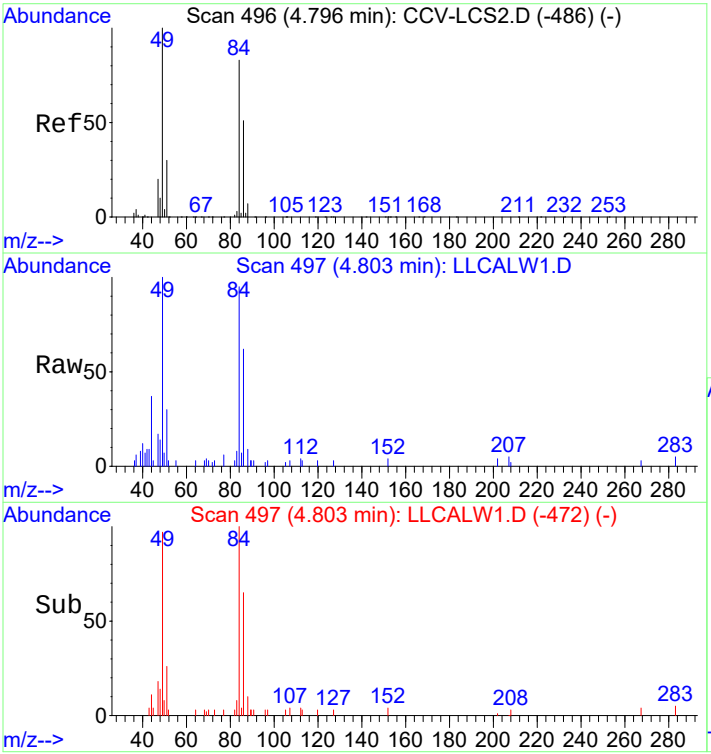
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.3 | 10.7 | 50.7 |




DGS 04/17/2025

After Manual Integration

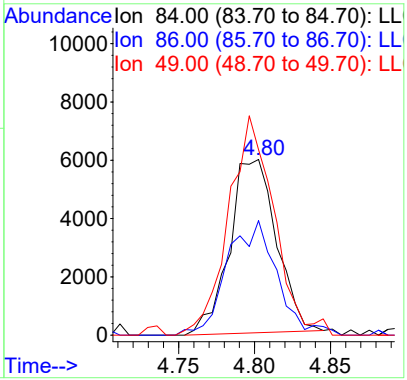
RO 04/16/2025

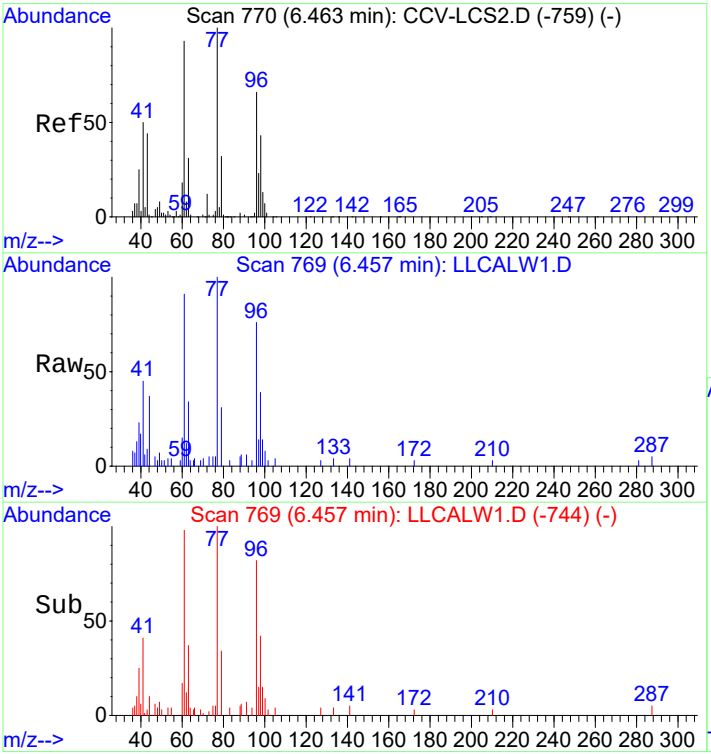



#20
Methylchlorid
Concen: 0.16 ug/L m
RT: 4.80 min Scan# 497
Delta R.T. -0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 84 Resp: 12863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 69.8 | 43.2 | 83.2 |
| 49 | 122.3 | 100.7 | 140.7 |

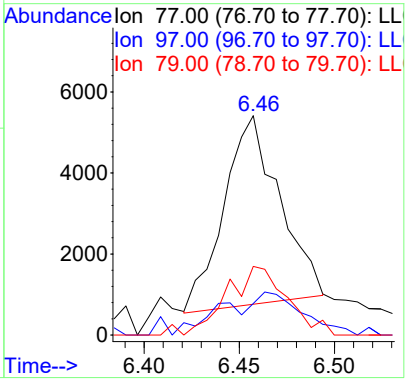



#31
22dichloropr
Concen: 0.09 ug/L m
RT: 6.46 min Scan# 769
Delta R.T. -0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 77 Resp: 9525

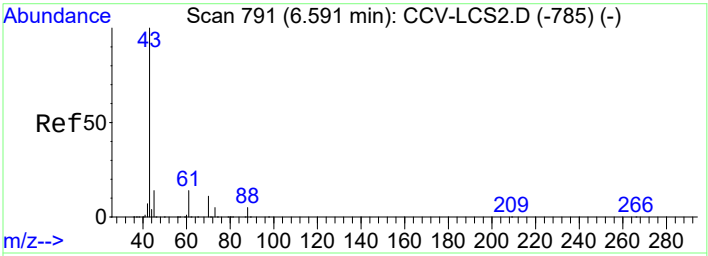
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 20.3 | 3.8 | 43.8 |
| 79 | 39.8 | 13.2 | 53.2 |




DGS 04/17/2025

After Manual Integration

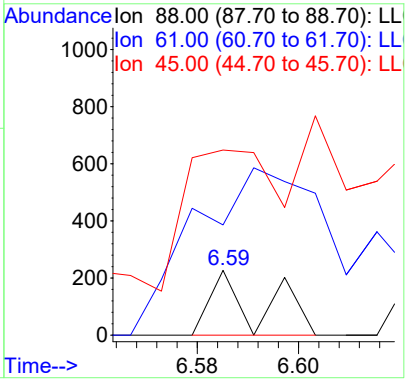
RO 04/16/2025

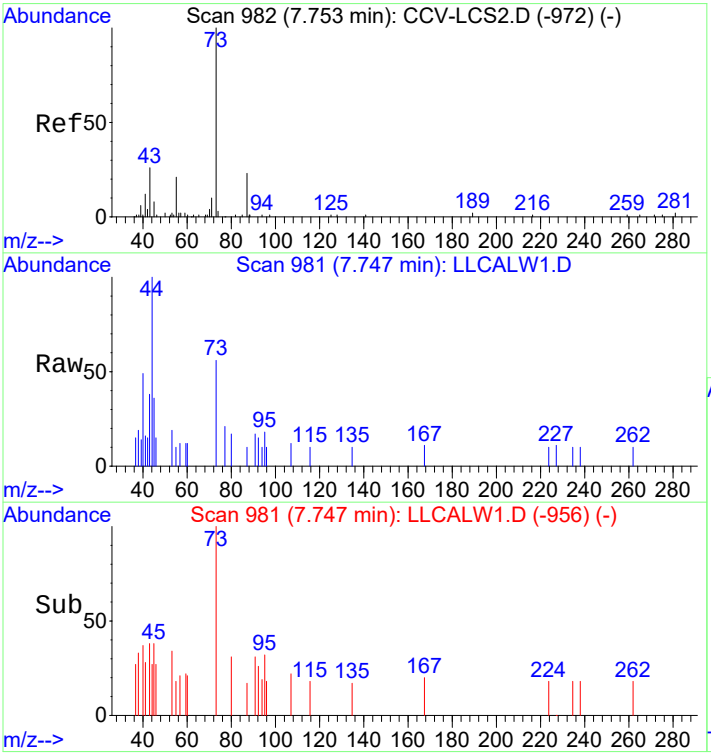



#35
Ethylacetate
Concen: 0.24 ug/L m
RT: 6.59 min Scan# 790
Delta R.T. -0.01 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 88 Resp: 157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 61 | 0.0 | 321.2 | 361.2# |
| 45 | 0.0 | 326.1 | 366.1# |

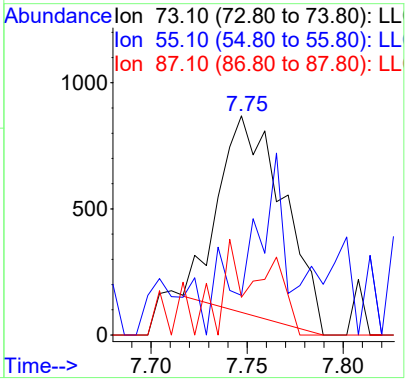



#48
TAME
Concen: 0.09 ug/L m
RT: 7.75 min Scan# 981
Delta R.T. -0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 73 Resp: 1827

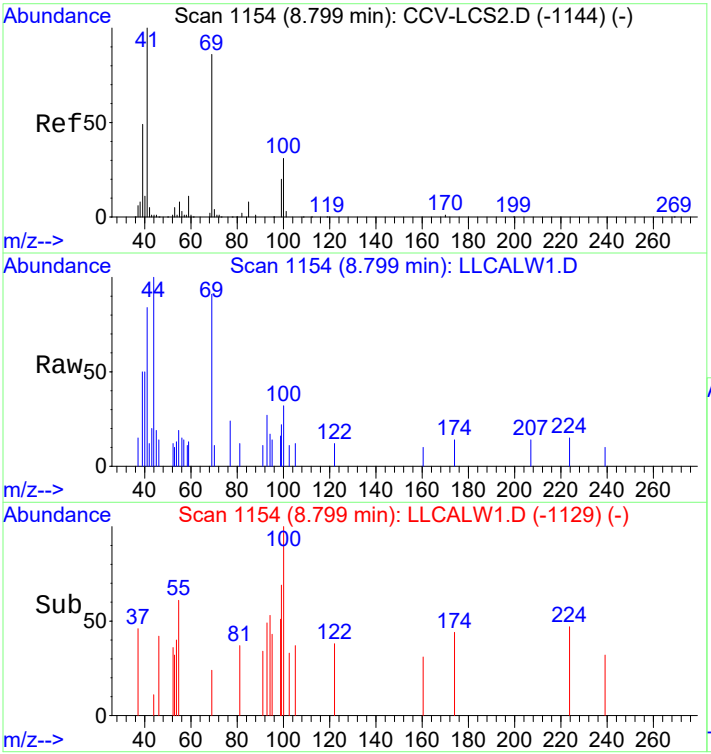
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 55 | 73.9 | 6.0 | 46.0# |
| 87 | 32.7 | 2.8 | 42.8 |




DGS 04/17/2025

After Manual Integration

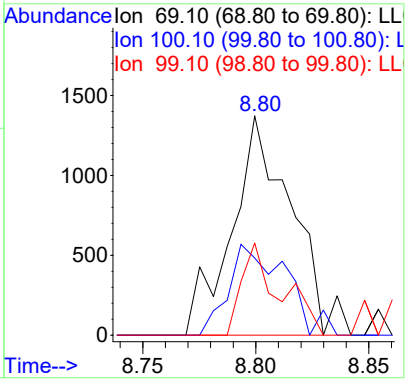
RO 04/16/2025

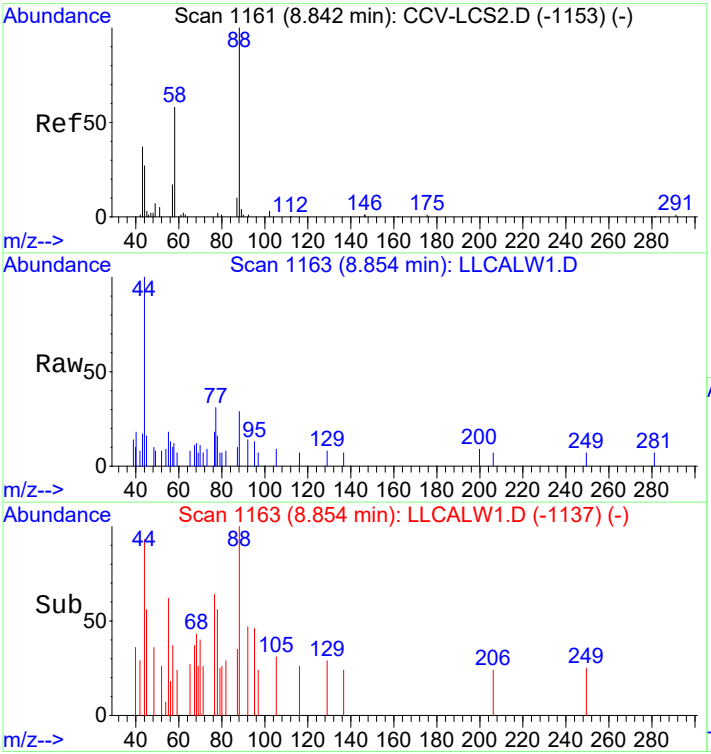



#54
methylmethacrylate
Concen: 0.11 ug/L m
RT: 8.80 min Scan# 1154
Delta R.T. -0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 69 Resp: 2452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 100 | 41.1 | 18.1 | 58.1 |
| 99 | 27.9 | 2.7 | 42.7 |

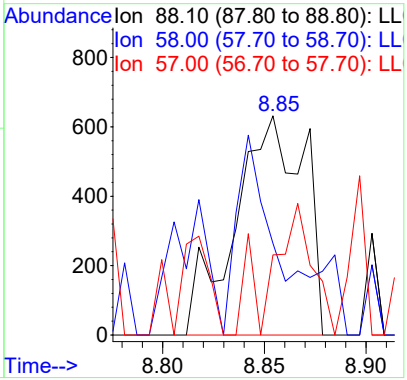


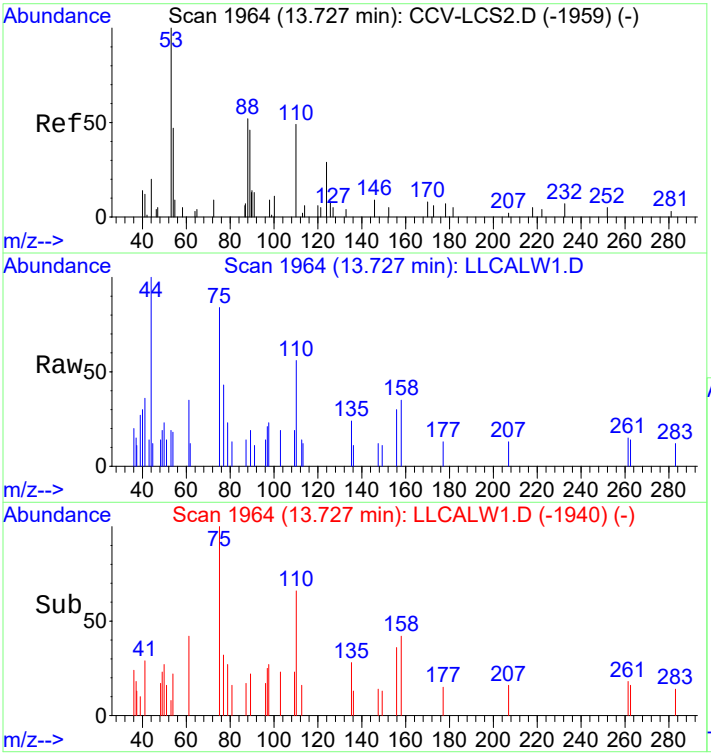

#55
14dioxane
Concen: 5.61 ug/L m
RT: 8.85 min Scan# 1163
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 88 Resp: 1494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 61.0 | 45.0 | 85.0 |
| 57 | 0.0 | 4.7 | 44.7# |



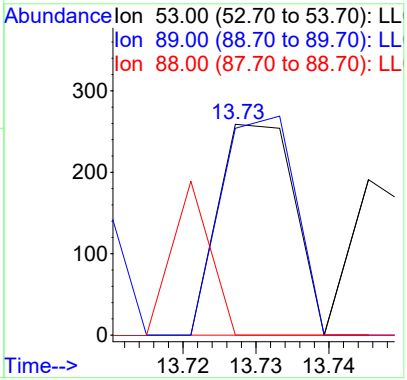

DGS 04/17/2025




#86
14dichloro2butene
Concen: 0.07 ug/L m
RT: 13.73 min Scan# 1964
Delta R.T. -0.01 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 53 Resp: 187

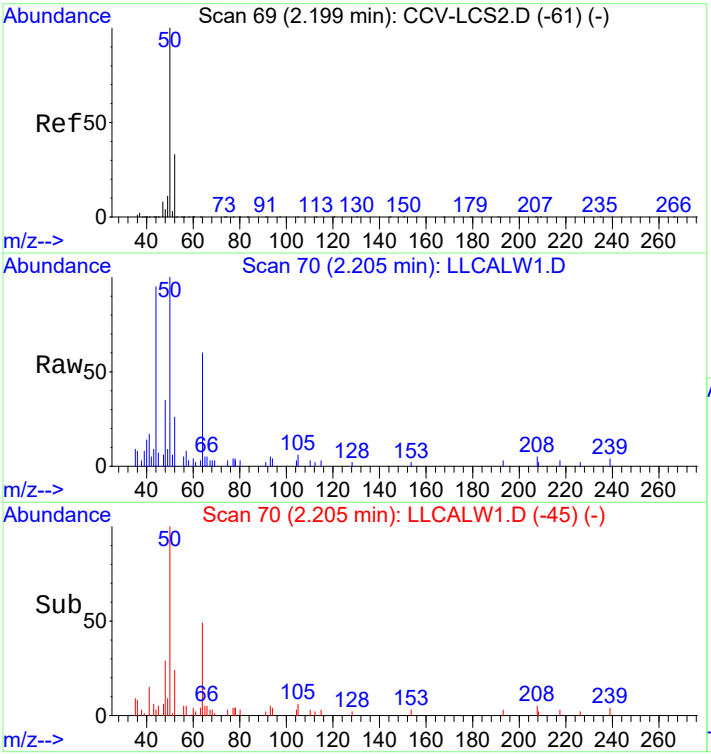
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 89 | 0.0 | 45.4 | 85.4# |
| 88 | 0.0 | 29.9 | 69.9# |




After Manual Integration

RD 04/16/2025

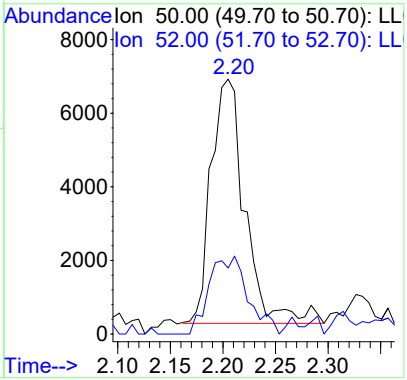
DGS 04/17/2025




#3
Chloromethan
Concen: 0.14 ug/L
RT: 2.20 min Scan# 70
Delta R.T. -0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 50 Resp: 14877

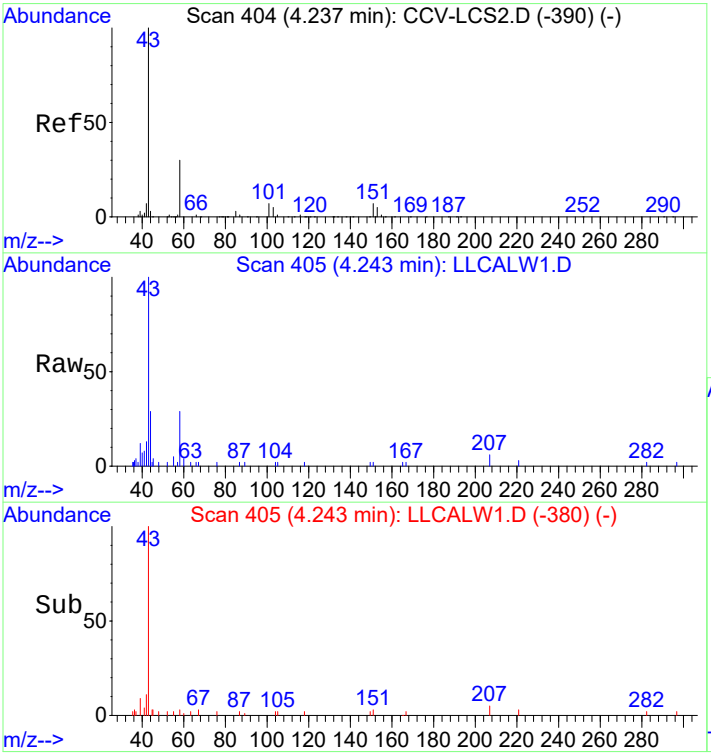
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.5 | 13.0 | 53.0 |




Before Manual Integration

RO 04/16/2025

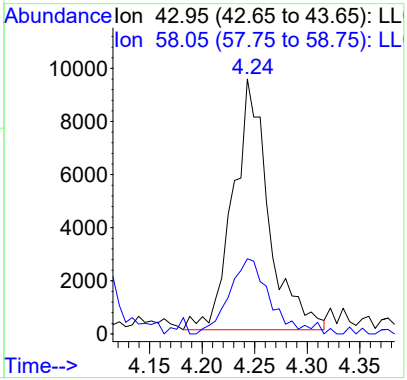
REASON # 2



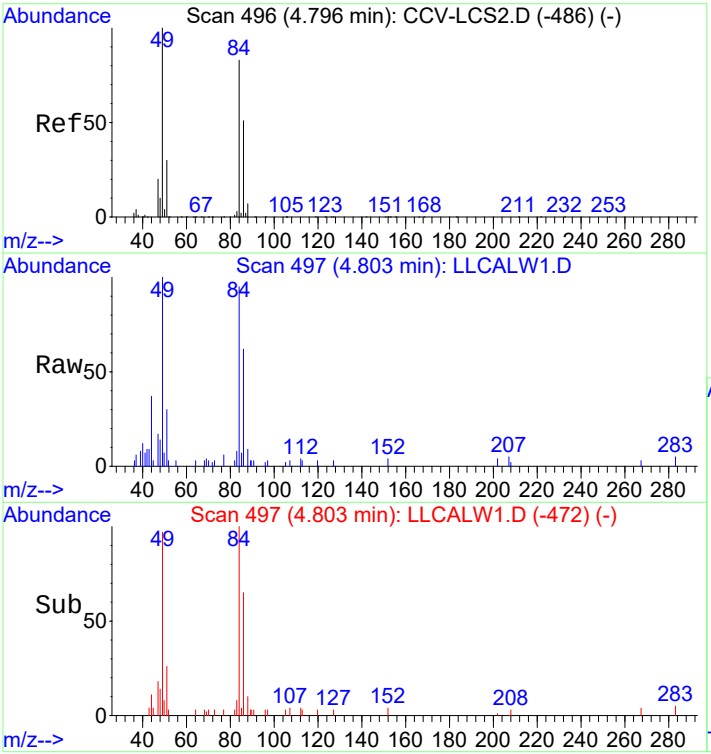

#15
Acetone
Concen: 1.70 ug/L
RT: 4.24 min Scan# 405
Delta R.T. -0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 43 Resp: 22321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.7 | 10.7 | 50.7 |



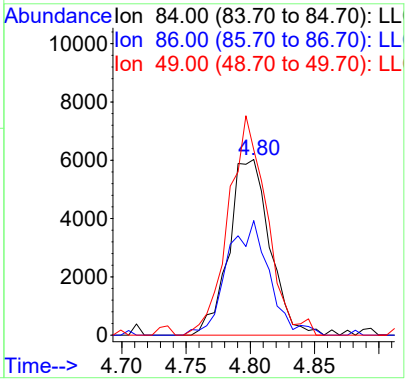

REASON # 2




#20
Methylchlorid
Concen: 0.15 ug/L
RT: 4.80 min Scan# 497
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 84 Resp: 13369

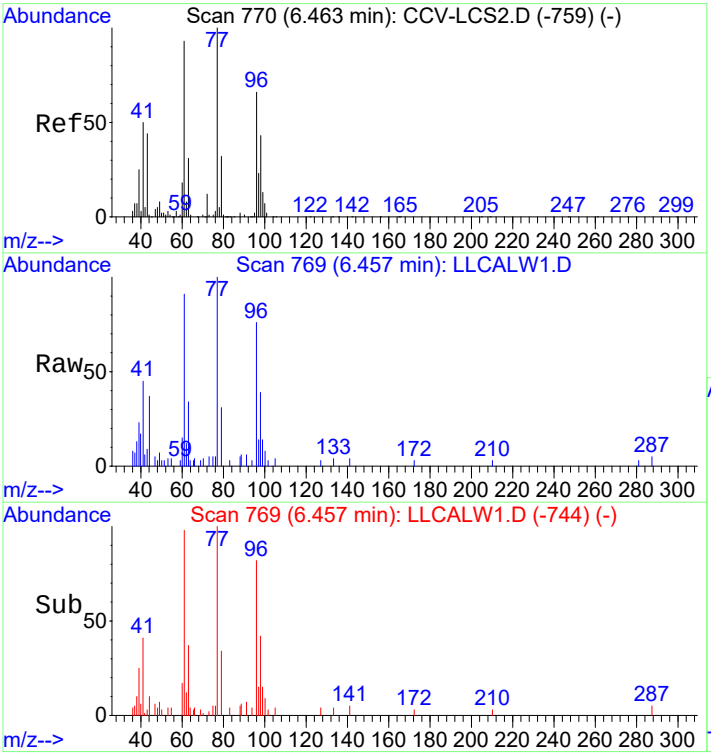
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 67.1 | 43.2 | 83.2 |
| 49 | 117.7 | 100.7 | 140.7 |




Before Manual Integration

RD 04/16/2025

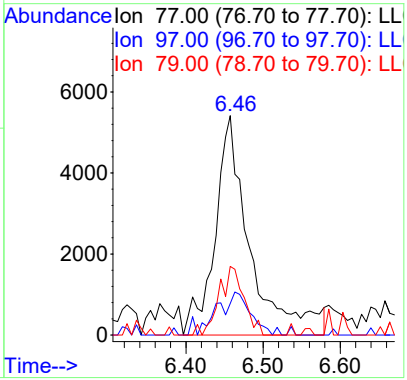
REASON # 2



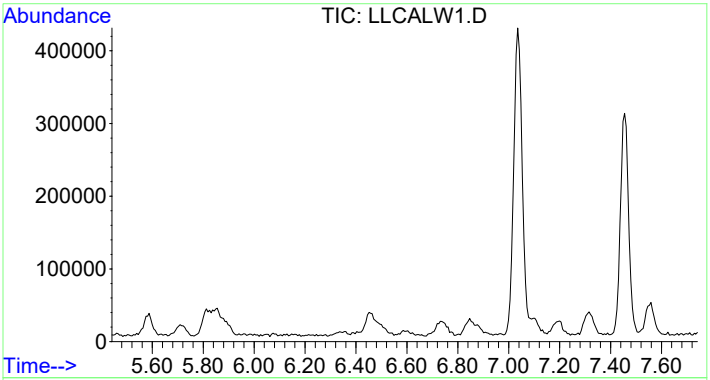

#31
22dichloropr
Concen: 0.17 ug/L
RT: 6.46 min Scan# 769
Delta R.T. -0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 77 Resp: 17009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 11.4 | 3.8 | 43.8 |
| 79 | 22.3 | 13.2 | 53.2 |




REASON # 2




#35
Ethylacetate
Concen: N.D.
Expected RT: 6.59 min

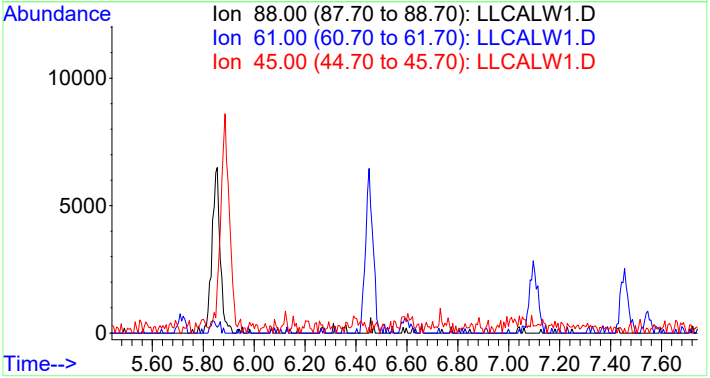
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 88

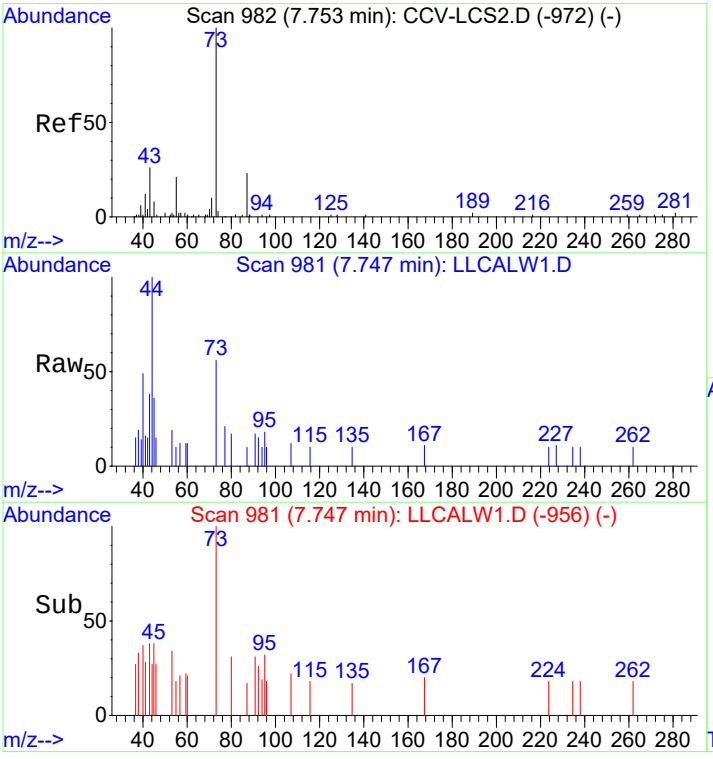
| Sig | Exp Ratio |
|---|---|
| 88 | 100 |
| 61 | 341.2 |
| 45 | 346.1 |

Before Manual Integration

RD 04/16/2025



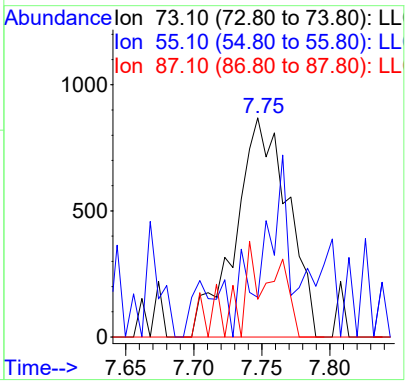

REASON # 1



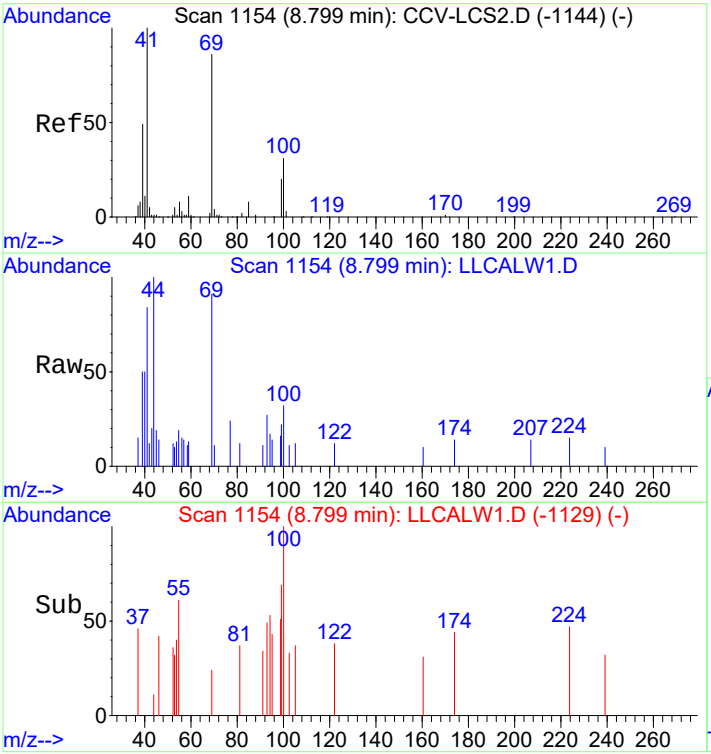

#48
TAME
Concen: 0.13 ug/L
RT: 7.75 min Scan# 981
Delta R.T. -0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 73 Resp: 2346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 55 | 57.5 | 6.0 | 46.0# |
| 87 | 25.4 | 2.8 | 42.8 |



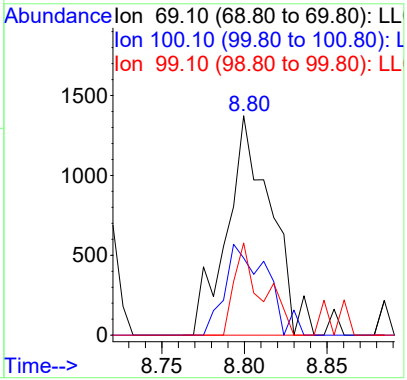

REASON # 2




#54
methylmethacrylate
Concen: 0.12 ug/L m
RT: 8.80 min Scan# 1154
Delta R.T. -0.00 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 69 Resp: 2541

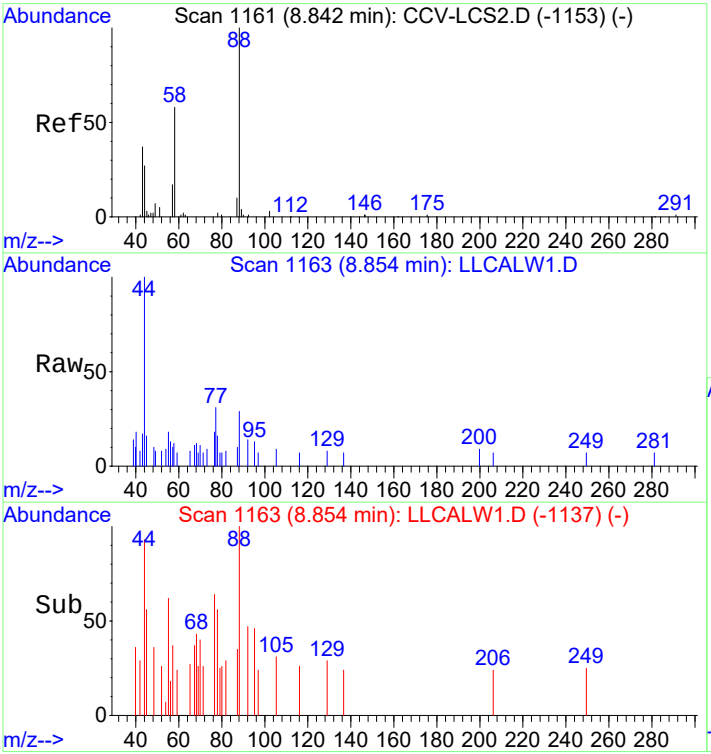
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 100 | 39.6 | 18.1 | 58.1 |
| 99 | 26.9 | 2.7 | 42.7 |




Before Manual Integration

RD 04/16/2025

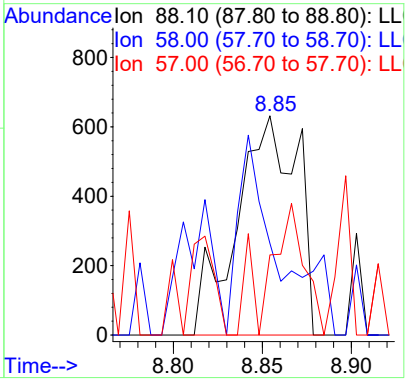
REASON # 2



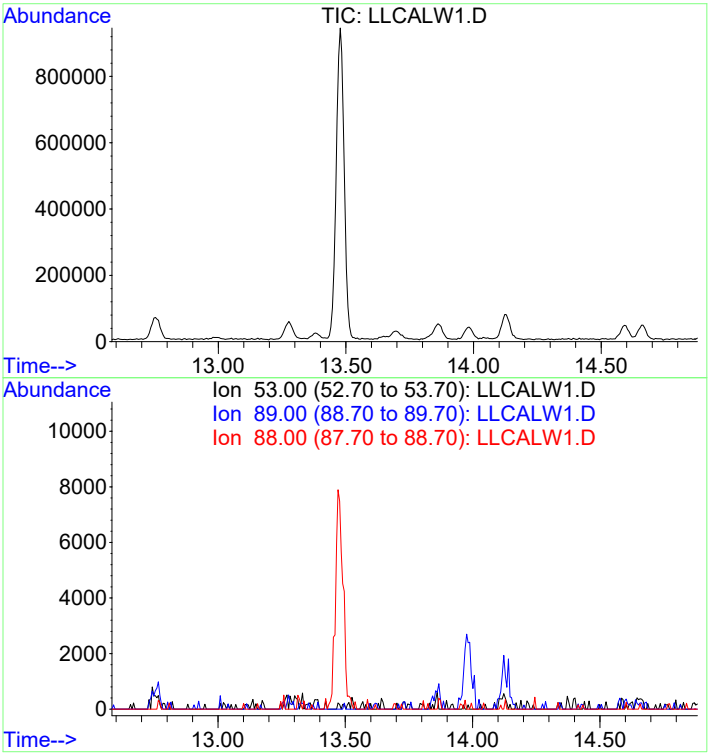

#55
14dioxane
Concen: 5.61 ug/L m
RT: 8.85 min Scan# 1163
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 88 Resp: 1494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 61.0 | 45.0 | 85.0 |
| 57 | 0.0 | 4.7 | 44.7# |




REASON # 2




#86
14dichloro2butene
Concen: N.D.
Expected RT: 13.73 min

Lab File: LLCALW1.D
Acq: 13 Apr 2025 9:45

Tgt Ion: 53

| Sig | Exp Ratio |
|---|---|
| 53 | 100 |
| 89 | 65.4 |
| 88 | 49.9 |

Before Manual Integration

RO 04/16/2025

REASON # 1

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW2.D Vial: 6
Acq On : 13 Apr 2025 10:13 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.20/2.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:34:05 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:23:05 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1166420 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 871841 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 432041 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 292522 | 4.016 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 49559 | 3.974 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1165331 | 4.005 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 391611 | 4.032 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 101 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.93 | 85 | 17840 | 0.2227 | ug/L | 100 |
| 3) Chloromethan | 2.20 | 50 | 18929m | 0.1845 | ug/L | 96 |
| 4) VinylChlorid | 2.36 | 62 | 20798 | 0.2087 | ug/L | 65 |
| 5) Bromomethane | 2.86 | 94 | 15790 | 0.2490 | ug/L | 97 |
| 6) Chloroethane | 3.01 | 64 | 15798 | 0.2537 | ug/L | 93 |
| 7) Dichloroflmethane | 3.33 | 67 | 24799 | 0.1998 | ug/L | 95 |
| 8) Trichlorofma | 3.42 | 101 | 24690 | 0.2204 | ug/L | 92 |
| 9) Ethylether | 3.88 | 59 | 8452 | 0.2173 | ug/L | 89 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 16205 | 0.2125 | ug/L | 98 |
| 11) propyleneoxide | 4.10 | 58 | 9934 | 1.9396 | ug/L # | 43 |
| 12) Acrolein | 4.01 | 56 | 7451 | 1.3248 | ug/L | 93 |
| 13) 11dichlorthe | 4.15 | 96 | 14130 | 0.2136 | ug/L | 98 |
| 14) Trichlorotfluoroeth | 4.20 | 101 | 26456 | 0.4415 | ug/L | 98 |
| 15) Acetone | 4.24 | 43 | 26879 | 2.0346 | ug/L | 83 |
| 16) Iodomethane | 4.33 | 142 | 23097 | 0.3226 | ug/L | 95 |
| 17) Carbon Dislf | 4.43 | 76 | 53295 | 0.4057 | ug/L | 96 |
| 18) allylchloride | 4.64 | 41 | 38092 | 0.4015 | ug/L | 99 |
| 19) methylacetate | 4.72 | 74 | 2269 | 0.2130 | ug/L | 89 |
| 20) Methylchlorid | 4.80 | 84 | 17167m | 0.2214 | ug/L | 96 |
| 21) tbutylalcohol | 5.05 | 59 | 16723 | 10.1994 | ug/L | 98 |
| 22) Acrylonitrile | 5.12 | 53 | 7925 | 0.9856 | ug/L | 92 |
| 23) t12dichlorte | 5.19 | 96 | 15036 | 0.2118 | ug/L | 96 |
| 24) MtBE | 5.25 | 73 | 16607 | 0.2110 | ug/L | 82 |
| 25) Hexane | 5.58 | 57 | 37600 | 0.4269 | ug/L | 97 |
| 26) 11dichlorota | 5.72 | 63 | 26669 | 0.2040 | ug/L | 94 |
| 27) Vinylacetate | 5.81 | 43 | 116215 | 2.2129 | ug/L | 99 |
| 28) chloroprene | 5.85 | 53 | 40654 | 0.4020 | ug/L | 98 |
| 29) Diisopether | 5.89 | 45 | 36595 | 0.1993 | ug/L | 96 |
| 30) ETBE | 6.34 | 59 | 8114 | 0.1977 | ug/L | 90 |
| 31) 22dichloropr | 6.45 | 77 | 20833 | 0.2041 | ug/L | 99 |
| 32) c12dichlorte | 6.45 | 96 | 15158 | 0.1957 | ug/L | 95 |
| 33) 2Butanone | 6.49 | 72 | 6383 | 1.8157 | ug/L | 74 |
| 34) propionitrile | 6.51 | 54 | 6308 | 2.0187 | ug/L | 96 |
| 35) Ethylacetate | 6.60 | 88 | 673 | 1.0757 | ug/L # | 69 |
| 36) methacrylonitrile | 6.72 | 67 | 4729 | 0.4285 | ug/L | 96 |
| 37) Bromochlorma | 6.74 | 128 | 4710 | 0.1659 | ug/L # | 68 |
| 38) Tetrahydofur | 6.88 | 42 | 15165 | 2.1488 | ug/L | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW2.D Vial: 6
Acq On : 13 Apr 2025 10:13 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.20/2.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:34:05 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:23:05 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc Unit | | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 29347 | 0.2203 ug/L | | 100 |
| 40) | 111trichlota | 7.10 | 97 | 22040 | 0.1898 ug/L | | 97 |
| 42) | Cyclohexane | 7.20 | 56 | 23778 | 0.2179 ug/L | | 96 |
| 43) | Carbtetraclo | 7.33 | 119 | 20555 | 0.2029 ug/L | | 96 |
| 44) | 11dicloprope | 7.30 | 110 | 6928 | 0.2012 ug/L | # | 89 |
| 46) | Benzene | 7.56 | 78 | 57566 | 0.1965 ug/L | | 97 |
| 47) | 12dichlorota | 7.55 | 62 | 14589 | 0.2062 ug/L | | 97 |
| 48) | TAME | 7.75 | 73 | 2842 | 0.1545 ug/L | # | 69 |
| 49) | trichloroete | 8.37 | 95 | 15354 | 0.1950 ug/L | | 96 |
| 50) | methylcyclohexane | 8.64 | 83 | 24620 | 0.1988 ug/L | | 91 |
| 51) | 12dicloropra | 8.62 | 63 | 13336 | 0.1882 ug/L | # | 93 |
| 52) | 23Dicl1propene | 8.68 | 75 | 21719 | 0.2009 ug/L | | 95 |
| 53) | Dibromometha | 8.76 | 93 | 6475 | 0.2206 ug/L | | 92 |
| 54) | methylmethacrylate | 8.80 | 69 | 3976m | 0.1924 ug/L | | 96 |
| 55) | 14dioxane | 8.86 | 88 | 1967 | 7.7257 ug/L | # | 61 |
| 56) | Bromodiclrma | 8.96 | 83 | 18077 | 0.2051 ug/L | | 95 |
| 57) | 2Nitropropane | 9.23 | 43 | 15431 | 2.0883 ug/L | | 96 |
| 58) | c13dicloproe | 9.55 | 75 | 17855 | 0.1905 ug/L | | 95 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 45792 | 1.9931 ug/L | | 96 |
| 61) | Toluene | 10.00 | 92 | 35647 | 0.1937 ug/L | | 92 |
| 62) | t13Dicloprop | 10.25 | 75 | 13670 | 0.2060 ug/L | # | 76 |
| 63) | ethylmethacrylate | 10.41 | 69 | 15211 | 0.3686 ug/L | | 91 |
| 64) | 112Triclotha | 10.50 | 83 | 6526 | 0.1968 ug/L | | 92 |
| 65) | Tetrachlorte | 10.75 | 166 | 15700 | 0.1900 ug/L | | 92 |
| 66) | 13Diclorpropa | 10.73 | 76 | 14231 | 0.2082 ug/L | | 97 |
| 68) | 2Hexanone | 10.86 | 43 | 34075 | 1.9108 ug/L | | 96 |
| 69) | Clorodibrmta | 11.03 | 129 | 9373 | 0.1812 ug/L | | 98 |
| 70) | 12Dibrometha | 11.19 | 107 | 8053 | 0.2102 ug/L | | 87 |
| 71) | Chlorobenzen | 11.87 | 112 | 37611 | 0.1952 ug/L | # | 82 |
| 72) | 1Clhexane | 11.85 | 91 | 21684 | 0.2145 ug/L | # | 65 |
| 73) | 1112Tetclota | 11.98 | 131 | 12732 | 0.1957 ug/L | | 94 |
| 74) | Ethylbenzene | 12.03 | 91 | 69155 | 0.1959 ug/L | | 100 |
| 75) | m p-Xylene | 12.21 | 106 | 51826 | 0.3824 ug/L | | 95 |
| 76) | o-Xylene | 12.75 | 106 | 25605 | 0.1956 ug/L | | 95 |
| 77) | Styrene | 12.77 | 104 | 35081 | 0.1800 ug/L | | 96 |
| 78) | Bromoform | 12.98 | 173 | 4045 | 0.1656 ug/L | # | 72 |
| 79) | Isopropylben | 13.28 | 105 | 68549 | 0.1991 ug/L | | 98 |
| 80) | cyclohexanone | 13.38 | 55 | 14957 | 3.8232 ug/L | | 93 |
| 83) | Bromobenzene | 13.69 | 156 | 14130 | 0.1921 ug/L | | 96 |
| 84) | 1122Tetrclta | 13.65 | 83 | 7480 | 0.1920 ug/L | | 93 |
| 85) | 123Triclproa | 13.71 | 75 | 8752 | 0.2159 ug/L | | 96 |
| 86) | 14dichloro2butene | 13.73 | 53 | 326m | 0.1280 ug/L | # | 0 |
| 87) | n-Propylbenz | 13.86 | 91 | 76421 | 0.1950 ug/L | | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 46344 | 0.2038 ug/L | | 98 |
| 89) | 4chlorotolue | 14.13 | 91 | 48089 | 0.1874 ug/L | | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 55587 | 0.1984 ug/L | | 98 |
| 91) | tbutylbenzen | 14.60 | 119 | 47415 | 0.1964 ug/L | | 96 |
| 92) | 124Trimetben | 14.66 | 105 | 52694 | 0.1947 ug/L | | 98 |
| 93) | sbutylbenzen | 14.91 | 105 | 67162 | 0.1938 ug/L | | 98 |
| 94) | 13Diclorbenz | 15.06 | 146 | 27176 | 0.1982 ug/L | | 97 |
| 95) | pIsopropylto | 15.13 | 119 | 56485 | 0.1906 ug/L | | 96 |
| 96) | 14dichlorobe | 15.18 | 146 | 25336 | 0.1881 ug/L | | 87 |
| 97) | 12dichlorobe | 15.72 | 146 | 23230 | 0.1968 ug/L | # | 81 |
| 98) | nButylbenzen | 15.72 | 91 | 51610 | 0.1939 ug/L | | 96 |
| 99) | 12dibromo3cl | 16.82 | 157 | 1395m | 0.2501 ug/L | # | 55 |
| 100) | 135Trichlorobenzene | 17.13 | 180 | 17340 | 0.1803 ug/L | | 92 |
| 101) | 124Trichlobe | 17.94 | 180 | 12409 | 0.1885 ug/L | | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW2.D Vial: 6
Acq On : 13 Apr 2025 10:13 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.20/2.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:34:05 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:23:05 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 9606 | 0.1984 | ug/L | 91 |
| 103) Naphthalene | 18.25 | 128 | 16167 | 0.1866 | ug/L | 94 |
| 104) 123Trichlben | 18.55 | 180 | 9379 | 0.1852 | ug/L | 92 |

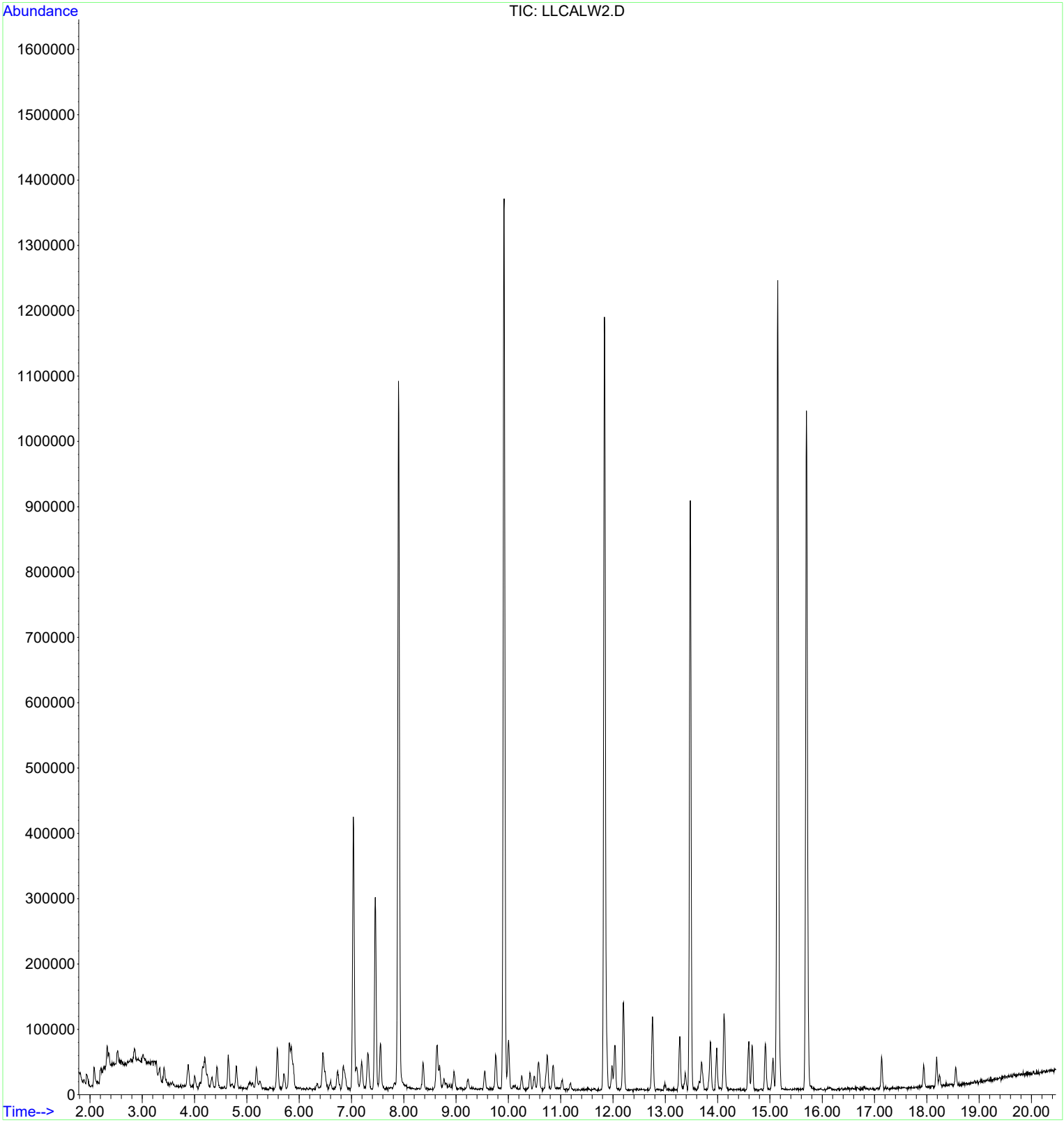
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW2.D Vial: 6
Acq On : 13 Apr 2025 10:13 Operator: RLD-DGS
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.20/2.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

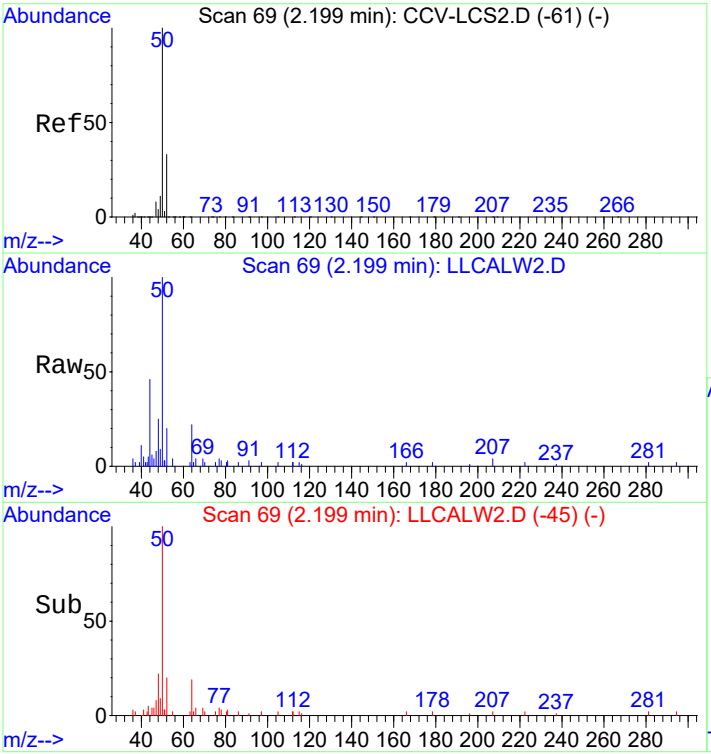
Quant Time: Apr 14 07:34:05 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:23:05 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



After Manual Integration

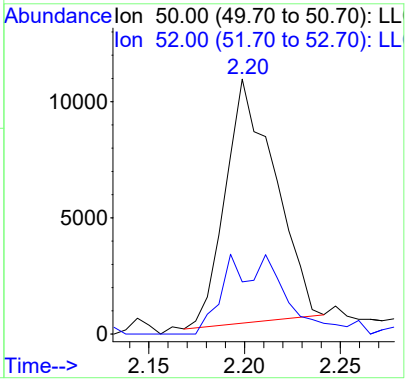
RO 04/16/2025

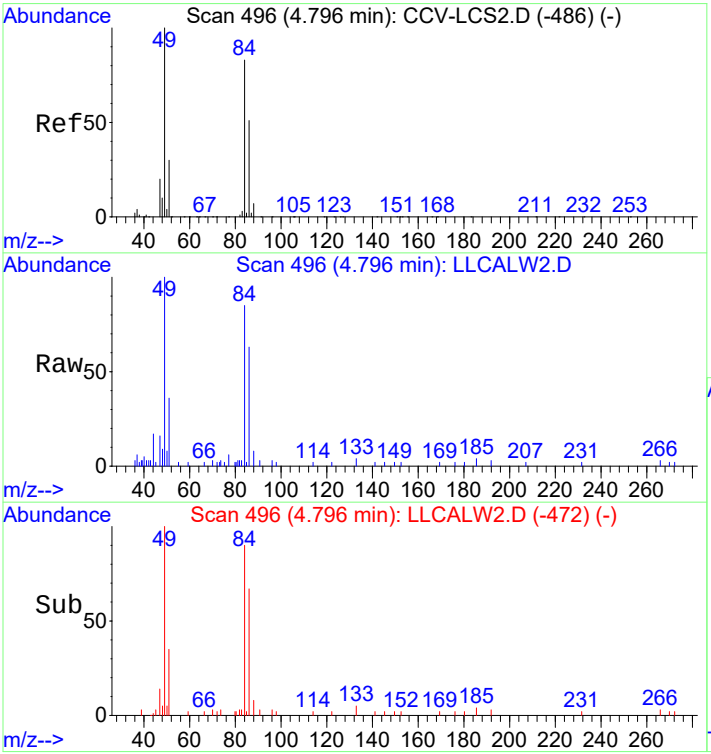



#3
Chloromethan
Concen: 0.18 ug/L m
RT: 2.20 min Scan# 69
Delta R.T. -0.01 min
Lab File: LLCALW2.D
Acq: 13 Apr 2025 10:13

Tgt Ion: 50 Resp: 18929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 39.5 | 13.0 | 53.0 |

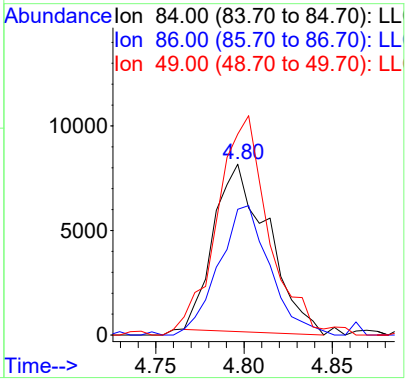



#20
Methylchlorid
Concen: 0.22 ug/L m
RT: 4.80 min Scan# 496
Delta R.T. -0.01 min
Lab File: LLCALW2.D
Acq: 13 Apr 2025 10:13

Tgt Ion: 84 Resp: 17167

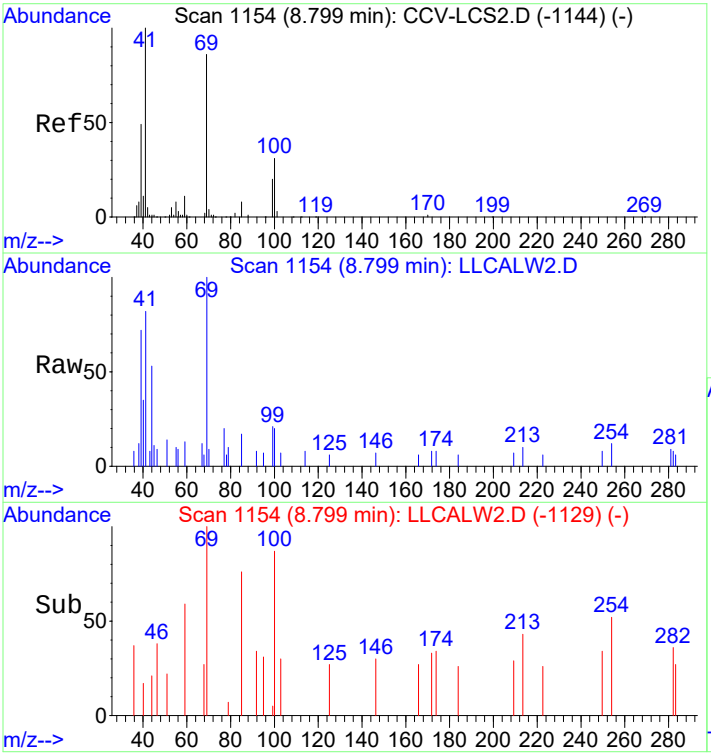
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 72.4 | 43.2 | 83.2 |
| 49 | 125.2 | 100.7 | 140.7 |




DGS 04/17/2025

After Manual Integration

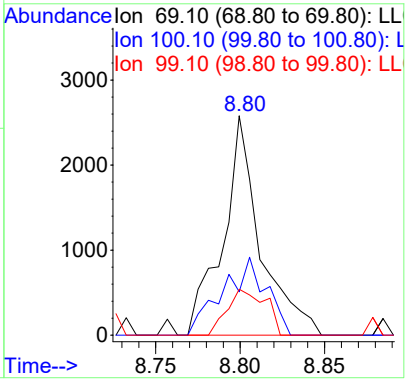
RD 04/16/2025

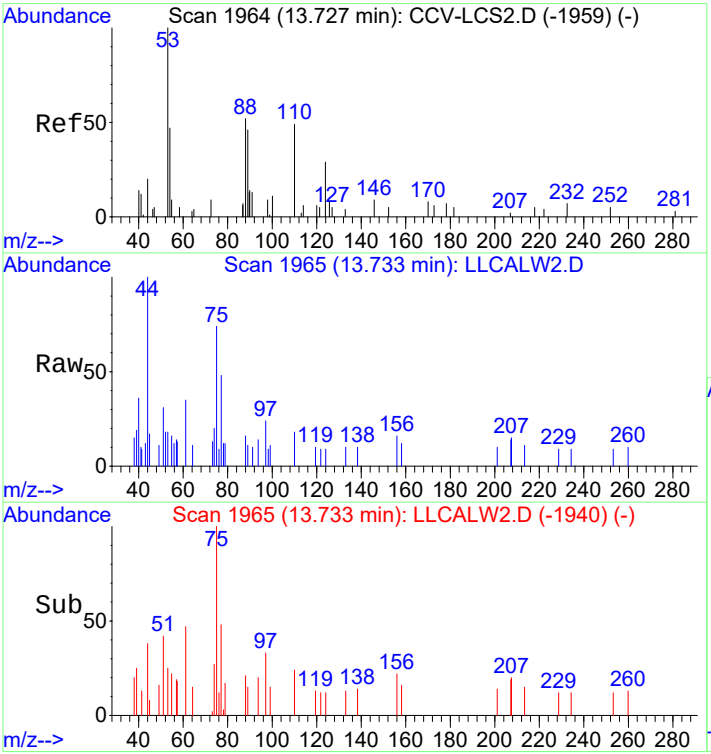



#54
methylmethacrylate
Concen: 0.19 ug/L m
RT: 8.80 min Scan# 1154
Delta R.T. -0.00 min
Lab File: LLCALW2.D
Acq: 13 Apr 2025 10:13

Tgt Ion: 69 Resp: 3976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 100 | 41.4 | 18.1 | 58.1 |
| 99 | 21.5 | 2.7 | 42.7 |

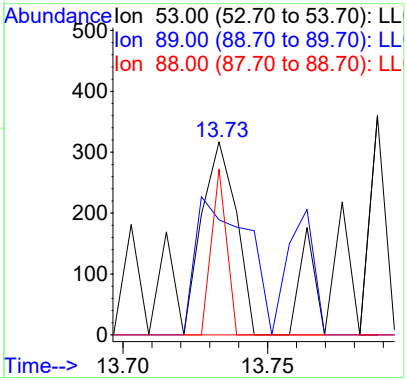


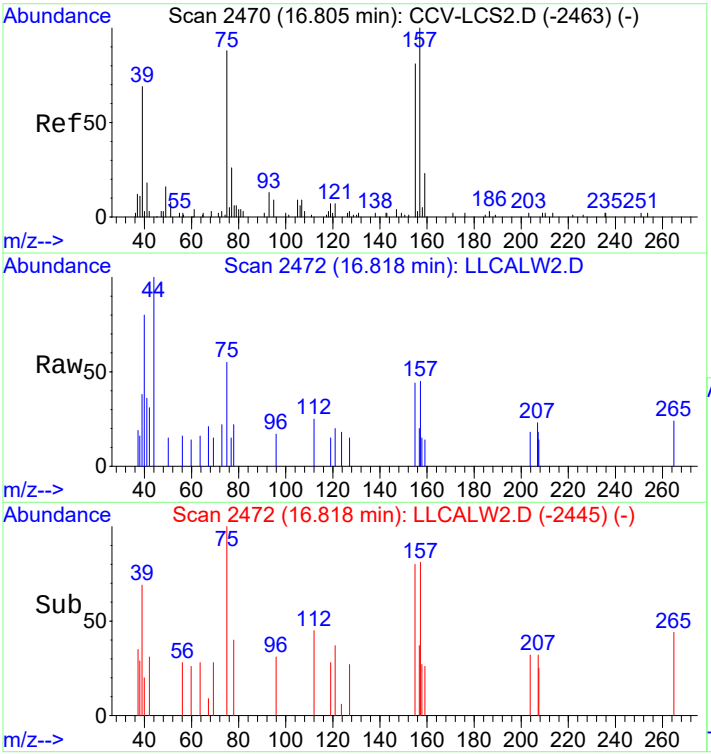

#86
14dichloro2butene
Concen: 0.13 ug/L m
RT: 13.73 min Scan# 1965
Delta R.T. -0.00 min
Lab File: LLCALW2.D
Acq: 13 Apr 2025 10:13

Tgt Ion: 53 Resp: 326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 89 | 0.0 | 45.4 | 85.4# |
| 88 | 0.0 | 29.9 | 69.9# |



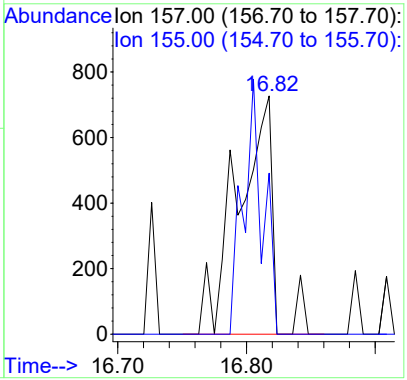

DGS 04/17/2025




#99
12dibromo3cl
Concen: 0.25 ug/L m
RT: 16.82 min Scan# 2472
Delta R.T. 0.01 min
Lab File: LLCALW2.D
Acq: 13 Apr 2025 10:13

Tgt Ion:157 Resp: 1395

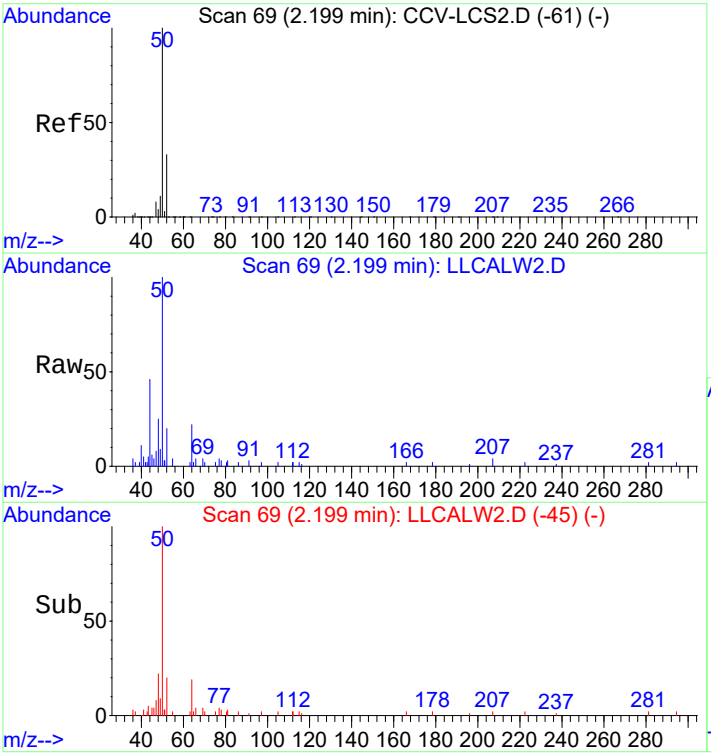
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 157 | 100 | | |
| 155 | 58.9 | 61.2 | 101.2# |




After Manual Integration

RD 04/16/2025

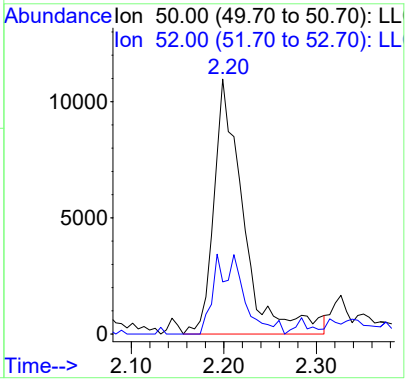
DGS 04/17/2025




#3
Chloromethan
Concen: 0.25 ug/L
RT: 2.20 min Scan# 69
Delta R.T. -0.01 min
Lab File: LLCALW2.D
Acq: 13 Apr 2025 10:13

Tgt Ion: 50 Resp: 24331

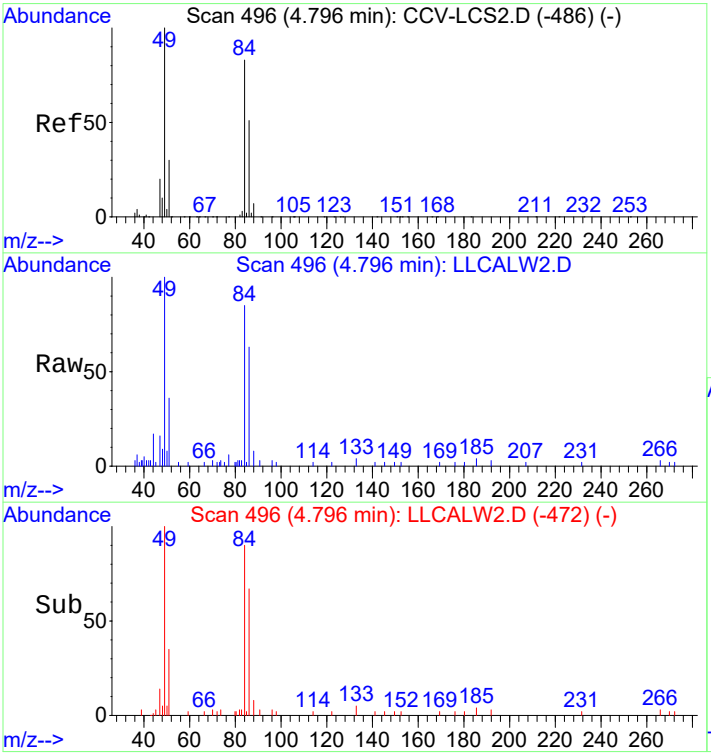
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.7 | 13.0 | 53.0 |




Before Manual Integration

RD 04/16/2025

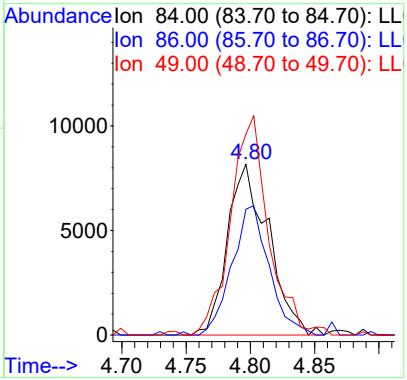
REASON # 2



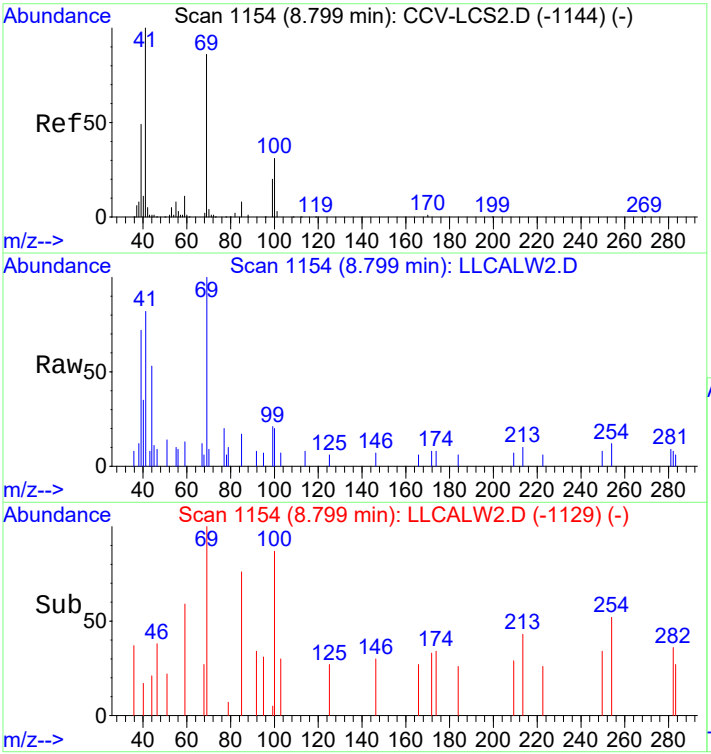

#20
Methylchlorid
Concen: 0.23 ug/L
RT: 4.80 min Scan# 496
Delta R.T. -0.01 min
Lab File: LLCALW2.D
Acq: 13 Apr 2025 10:13

Tgt Ion: 84 Resp: 18130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 68.6 | 43.2 | 83.2 |
| 49 | 118.6 | 100.7 | 140.7 |



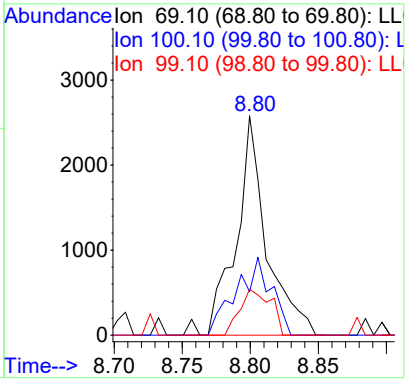

REASON # 2




#54
methylmethacrylate
Concen: 0.20 ug/L m
RT: 8.80 min Scan# 1154
Delta R.T. -0.00 min
Lab File: LLCALW2.D
Acq: 13 Apr 2025 10:13

Tgt Ion: 69 Resp: 4045

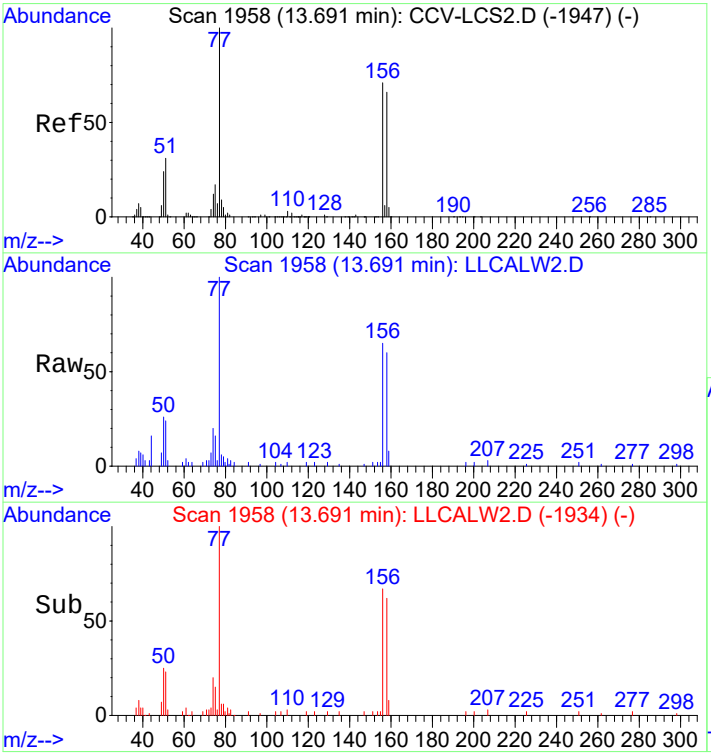
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 100 | 40.7 | 18.1 | 58.1 |
| 99 | 21.1 | 2.7 | 42.7 |




Before Manual Integration

RO 04/16/2025

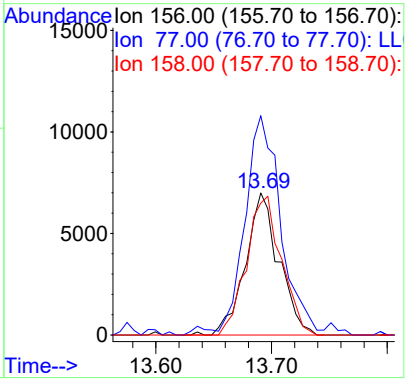
REASON # 2



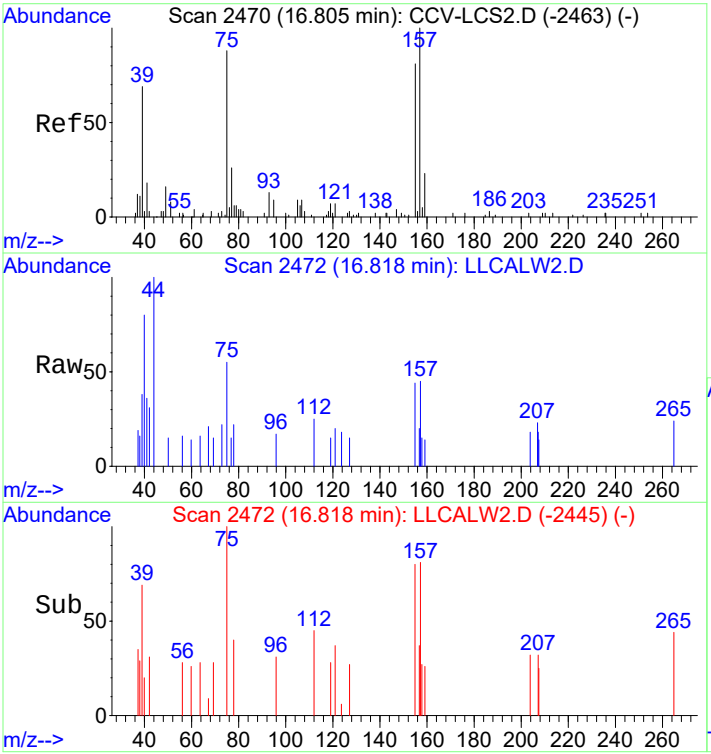

#83
Bromobenzene
Concen: 0.19 ug/L
RT: 13.69 min Scan# 1958
Delta R.T. -0.01 min
Lab File: LLCALW2.D
Acq: 13 Apr 2025 10:13

Tgt Ion:156 Resp: 14130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 158.5 | 135.8 | 175.8 |
| 158 | 101.9 | 76.2 | 116.2 |



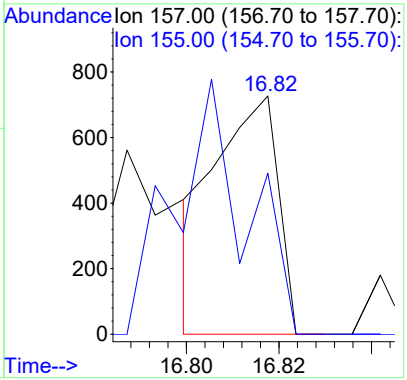

REASON # 2




#99
12dibromo3cl
Concen: 0.11 ug/L m
RT: 16.82 min Scan# 2472
Delta R.T. 0.01 min
Lab File: LLCALW2.D
Acq: 13 Apr 2025 10:13

Tgt Ion:157 Resp: 679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 157 | 100 | | |
| 155 | 120.9 | 61.2 | 101.2# |




Before Manual Integration
RD 04/16/2025

REASON # 2

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW3.D Vial: 7
Acq On : 13 Apr 2025 10:41 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.50/5.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:28:03 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.91 | 96 | 1192039 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 880977 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 437357 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 295220 | 3.966 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 52686 | 4.134 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 103 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1185975 | 3.989 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 402701 | 4.095 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 102 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 35559 | 0.4344 | ug/L | 100 |
| 3) Chloromethan | 2.20 | 50 | 54547 | 0.5441 | ug/L | 94 |
| 4) VinylChlorid | 2.36 | 62 | 49758 | 0.4885 | ug/L | 99 |
| 5) Bromomethane | 2.86 | 94 | 36453 | 0.5624 | ug/L | 98 |
| 6) Chloroethane | 3.02 | 64 | 33368 | 0.5244 | ug/L | 90 |
| 7) Dichloroflmethane | 3.32 | 67 | 65308 | 0.5148 | ug/L | 94 |
| 8) Trichlorofma | 3.42 | 101 | 51037 | 0.4459 | ug/L | 94 |
| 9) Ethylether | 3.89 | 59 | 20835 | 0.5241 | ug/L | 95 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 36938 | 0.4739 | ug/L | 97 |
| 11) propyleneoxide | 4.10 | 58 | 27771 | 5.3057 | ug/L | 92 |
| 12) Acrolein | 4.01 | 56 | 14312 | 2.4899 | ug/L | 98 |
| 13) 11dichlorthe | 4.15 | 96 | 32466 | 0.4802 | ug/L | 94 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 53801 | 0.8785 | ug/L | 99 |
| 15) Acetone | 4.24 | 43 | 69591 | 5.4294 | ug/L | 92 |
| 16) Iodomethane | 4.33 | 142 | 65416 | 0.8939 | ug/L | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 128982 | 0.9607 | ug/L | 100 |
| 18) allylchloride | 4.64 | 41 | 102723 | 1.0594 | ug/L | 97 |
| 19) methylacetate | 4.72 | 74 | 5953 | 0.5468 | ug/L | 88 |
| 20) Methylchlorid | 4.80 | 84 | 41649 | 0.5530 | ug/L | 97 |
| 21) tbutylalcohol | 5.05 | 59 | 43473 | 25.9444 | ug/L | 96 |
| 22) Acrylonitrile | 5.11 | 53 | 23311 | 2.8368 | ug/L | 92 |
| 23) t12dichlorte | 5.19 | 96 | 35581 | 0.4904 | ug/L | 95 |
| 24) MtBE | 5.25 | 73 | 42218 | 0.5248 | ug/L | 89 |
| 25) Hexane | 5.59 | 57 | 78650 | 0.8739 | ug/L | 97 |
| 26) 11dichlorota | 5.71 | 63 | 70514 | 0.5277 | ug/L | 99 |
| 27) Vinylacetate | 5.81 | 43 | 294616 | 5.3234 | ug/L | 98 |
| 28) chloroprene | 5.85 | 53 | 100142 | 0.9690 | ug/L | 98 |
| 29) Diisopether | 5.88 | 45 | 99287 | 0.5291 | ug/L | 98 |
| 30) ETBE | 6.35 | 59 | 21508 | 0.5127 | ug/L | 92 |
| 31) 22dichloropr | 6.46 | 77 | 48687 | 0.5062 | ug/L | 99 |
| 32) c12dichlorte | 6.45 | 96 | 41752 | 0.5275 | ug/L | 98 |
| 33) 2Butanone | 6.49 | 72 | 19204 | 5.3453 | ug/L | 91 |
| 34) propionitrile | 6.51 | 54 | 17870 | 5.5960 | ug/L | 95 |
| 35) Ethylacetate | 6.60 | 88 | 1956 | 3.0593 | ug/L # | 87 |
| 36) methacrylonitrile | 6.72 | 67 | 11849 | 1.0505 | ug/L | 93 |
| 37) Bromochlorma | 6.73 | 128 | 15969 | 0.5502 | ug/L | 98 |
| 38) Tetrahydofur | 6.87 | 42 | 37926 | 5.2585 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW3.D Vial: 7
Acq On : 13 Apr 2025 10:41 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.50/5.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:28:03 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | | Qvalue |
|---|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 72466 | 0.5322 | ug/L | | 100 |
| 40) | 111trichlota | 7.10 | 97 | 58568 | 0.4936 | ug/L | | 98 |
| 42) | Cyclohexane | 7.20 | 56 | 50689 | 0.4546 | ug/L | | 97 |
| 43) | Carbtetraclo | 7.32 | 119 | 48424 | 0.4678 | ug/L | | 96 |
| 44) | 11dicloprope | 7.30 | 110 | 17036 | 0.4840 | ug/L | | 93 |
| 46) | Benzene | 7.56 | 78 | 155920 | 0.5207 | ug/L | | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 38748 | 0.5359 | ug/L | | 99 |
| 48) | TAME | 7.75 | 73 | 9639 | 0.5284 | ug/L | | 95 |
| 49) | trichloroete | 8.37 | 95 | 40839 | 0.5076 | ug/L | | 97 |
| 50) | methylcyclohexane | 8.64 | 83 | 57147 | 0.4516 | ug/L | | 96 |
| 51) | 12dicloropra | 8.62 | 63 | 38579 | 0.5328 | ug/L | | 100 |
| 52) | 23Dicl1propene | 8.69 | 75 | 56741 | 0.5135 | ug/L | | 98 |
| 53) | Dibromometha | 8.76 | 93 | 15156 | 0.5052 | ug/L | | 95 |
| 54) | methylmethacrylate | 8.80 | 69 | 11902 | 0.5646 | ug/L | | 92 |
| 55) | 14dioxane | 8.85 | 88 | 7487 | 28.7743 | ug/L | | 90 |
| 56) | Bromodiclrma | 8.96 | 83 | 47169 | 0.5238 | ug/L | | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 38907 | 5.1521 | ug/L | | 95 |
| 58) | c13dicloproe | 9.55 | 75 | 49623 | 0.5179 | ug/L | | 98 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 126052 | 5.3685 | ug/L | | 98 |
| 61) | Toluene | 10.00 | 92 | 95571 | 0.5083 | ug/L | | 94 |
| 62) | t13Dicloprop | 10.25 | 75 | 35734 | 0.5270 | ug/L | | 96 |
| 63) | ethylmethacrylate | 10.42 | 69 | 46123 | 1.0937 | ug/L | | 97 |
| 64) | 112Triclotha | 10.49 | 83 | 19269 | 0.5686 | ug/L | | 95 |
| 65) | Tetrachlorte | 10.75 | 166 | 42081 | 0.4983 | ug/L | | 97 |
| 66) | 13Diclorpropa | 10.72 | 76 | 35133 | 0.5029 | ug/L | | 97 |
| 68) | 2Hexanone | 10.85 | 43 | 93848 | 5.2080 | ug/L | | 98 |
| 69) | Clorodibrmta | 11.03 | 129 | 26809 | 0.5129 | ug/L | | 99 |
| 70) | 12Dibrometha | 11.19 | 107 | 19912 | 0.5144 | ug/L | | 99 |
| 71) | Chlorobenzen | 11.88 | 112 | 102624 | 0.5272 | ug/L | | 93 |
| 72) | 1Clhexane | 11.85 | 91 | 47187 | 0.4619 | ug/L | | 84 |
| 73) | 1112Tetclota | 11.98 | 131 | 35321 | 0.5374 | ug/L | | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 180390 | 0.5057 | ug/L | | 98 |
| 75) | m p-Xylene | 12.20 | 106 | 138970 | 1.0147 | ug/L | | 94 |
| 76) | o-Xylene | 12.75 | 106 | 67497 | 0.5104 | ug/L | | 100 |
| 77) | Styrene | 12.76 | 104 | 100617 | 0.5109 | ug/L | | 98 |
| 78) | Bromoform | 13.00 | 173 | 13308 | 0.5392 | ug/L | | 96 |
| 79) | Isopropylben | 13.28 | 105 | 174166 | 0.5006 | ug/L | | 99 |
| 80) | cyclohexanone | 13.38 | 55 | 43133 | 10.9110 | ug/L | | 94 |
| 83) | Bromobenzene | 13.69 | 156 | 41264 | 0.5542 | ug/L | | 97 |
| 84) | 1122Tetrclta | 13.65 | 83 | 19704 | 0.4996 | ug/L | | 91 |
| 85) | 123Triclproa | 13.70 | 75 | 23138 | 0.5639 | ug/L | | 88 |
| 86) | 14dichloro2butene | 13.73 | 53 | 1777 | 0.7486 | ug/L | # | 70 |
| 87) | n-Propylbenz | 13.86 | 91 | 201181 | 0.5072 | ug/L | | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 122218 | 0.5309 | ug/L | | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 135255 | 0.5208 | ug/L | | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 143722 | 0.5068 | ug/L | | 98 |
| 91) | tbutylbenzen | 14.59 | 119 | 120962 | 0.4949 | ug/L | | 97 |
| 92) | 124Trimetben | 14.66 | 105 | 144166 | 0.5262 | ug/L | | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 169215 | 0.4822 | ug/L | | 100 |
| 94) | 13Diclorbenz | 15.05 | 146 | 73931 | 0.5327 | ug/L | | 97 |
| 95) | pIsopropylto | 15.13 | 119 | 145982 | 0.4865 | ug/L | | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 68986 | 0.5058 | ug/L | | 92 |
| 97) | 12dichlorobe | 15.73 | 146 | 61996 | 0.5188 | ug/L | | 94 |
| 98) | nButylbenzen | 15.72 | 91 | 125176 | 0.4646 | ug/L | | 98 |
| 99) | 12dibromo3cl | 16.79 | 157 | 3173 | 0.5203 | ug/L | | 99 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 49406 | 0.5074 | ug/L | | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 34587 | 0.5189 | ug/L | | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW3.D Vial: 7
Acq On : 13 Apr 2025 10:41 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.50/5.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:28:03 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 21579 | 0.4403 | ug/L | 93 |
| 103) Naphthalene | 18.24 | 128 | 43122 | 0.4917 | ug/L | 97 |
| 104) 123Trichlben | 18.56 | 180 | 25712 | 0.5015 | ug/L | 96 |

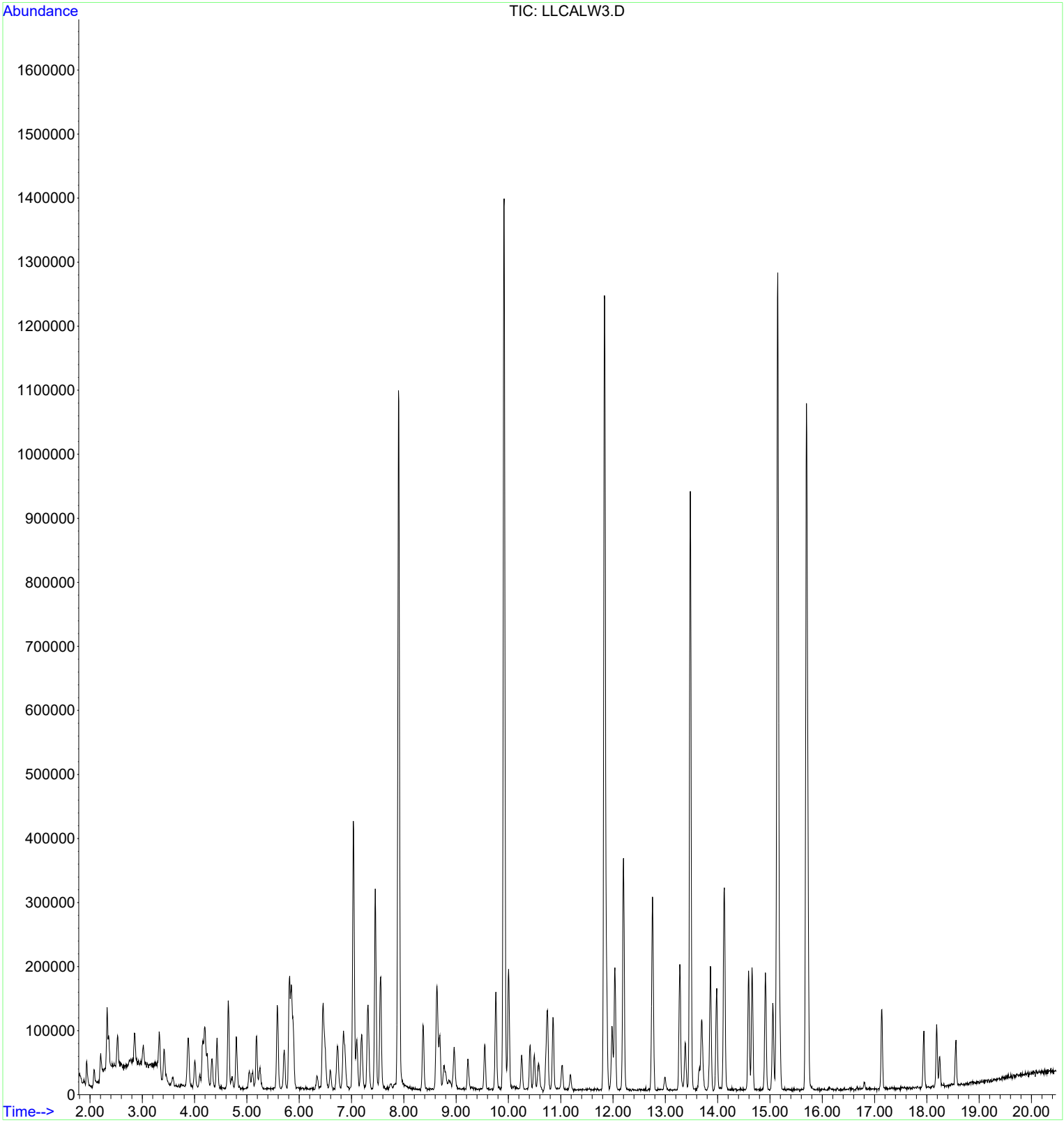
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW3.D Vial: 7
Acq On : 13 Apr 2025 10:41 Operator: RLD-DGS
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.50/5.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:28:03 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW4.D Vial: 8
Acq On : 13 Apr 2025 11:09 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 1.00/10.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:28:46 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.91 | 96 | 1165982 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 875763 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 431953 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 290813 | 3.994 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 51862 | 4.161 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 104 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1156812 | 3.978 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 391023 | 4.026 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 101 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 75750 | 0.9460 | ug/L | 99 |
| 3) Chloromethan | 2.20 | 50 | 98635 | 1.0058 | ug/L | 99 |
| 4) VinylChlorid | 2.36 | 62 | 94482 | 0.9484 | ug/L | 92 |
| 5) Bromomethane | 2.85 | 94 | 66468 | 1.0484 | ug/L | 98 |
| 6) Chloroethane | 3.02 | 64 | 63368 | 1.0181 | ug/L | 98 |
| 7) Dichloroflmethane | 3.33 | 67 | 118897 | 0.9581 | ug/L | 94 |
| 8) Trichlorofma | 3.42 | 101 | 107149 | 0.9570 | ug/L | 98 |
| 9) Ethylether | 3.88 | 59 | 36980 | 0.9509 | ug/L | 98 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 76237 | 0.9999 | ug/L | 94 |
| 11) propyleneoxide | 4.10 | 58 | 50559 | 9.8752 | ug/L | 94 |
| 12) Acrolein | 4.01 | 56 | 29969 | 5.3303 | ug/L | 88 |
| 13) 11dichlorthe | 4.15 | 96 | 62024 | 0.9379 | ug/L | 97 |
| 14) Trichlorotfluoroeth | 4.20 | 101 | 112892 | 1.8846 | ug/L | 99 |
| 15) Acetone | 4.24 | 43 | 122047 | 9.7348 | ug/L | 98 |
| 16) Iodomethane | 4.33 | 142 | 128131 | 1.7900 | ug/L | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 243906 | 1.8573 | ug/L | 99 |
| 18) allylchloride | 4.64 | 41 | 182410 | 1.9233 | ug/L | 99 |
| 19) methylacetate | 4.72 | 74 | 10962 | 1.0293 | ug/L | 99 |
| 20) Methylchlorid | 4.80 | 84 | 71484 | 1.0013 | ug/L | 99 |
| 21) tbutylalcohol | 5.05 | 59 | 76843 | 46.8842 | ug/L | 98 |
| 22) Acrylonitrile | 5.10 | 53 | 43284 | 5.3850 | ug/L | 93 |
| 23) t12dichlorte | 5.19 | 96 | 68530 | 0.9656 | ug/L | 99 |
| 24) MtBE | 5.25 | 73 | 76157 | 0.9678 | ug/L | 94 |
| 25) Hexane | 5.58 | 57 | 159715 | 1.8142 | ug/L | 100 |
| 26) 11dichlorota | 5.72 | 63 | 127217 | 0.9733 | ug/L | 99 |
| 27) Vinylacetate | 5.81 | 43 | 683433 | 12.6249 | ug/L | 95 |
| 28) chloroprene | 5.85 | 53 | 190955 | 1.8889 | ug/L | 99 |
| 29) Diisopether | 5.89 | 45 | 177010 | 0.9644 | ug/L | 98 |
| 30) ETBE | 6.34 | 59 | 37803 | 0.9213 | ug/L | 99 |
| 31) 22dichloropr | 6.46 | 77 | 94986 | 1.0095 | ug/L | 98 |
| 32) c12dichlorte | 6.45 | 96 | 76483 | 0.9879 | ug/L | 96 |
| 33) 2Butanone | 6.49 | 72 | 34266 | 9.7508 | ug/L | 99 |
| 34) propionitrile | 6.51 | 54 | 30585 | 9.7918 | ug/L | 93 |
| 35) Ethylacetate | 6.60 | 88 | 2794 | 4.4677 | ug/L # | 63 |
| 36) methacrylonitrile | 6.71 | 67 | 22331 | 2.0240 | ug/L | 98 |
| 37) Bromochlorma | 6.74 | 128 | 29030 | 1.0226 | ug/L | 97 |
| 38) Tetrahydofur | 6.87 | 42 | 67629 | 9.5864 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW4.D Vial: 8
Acq On : 13 Apr 2025 11:09 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 1.00/10.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:28:46 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 131869 | 0.9901 | ug/L | 97 |
| 40) | 111trichlota | 7.10 | 97 | 112511 | 0.9693 | ug/L | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 100949 | 0.9256 | ug/L | 99 |
| 43) | Carbtetraclo | 7.32 | 119 | 96060 | 0.9487 | ug/L | 99 |
| 44) | 11dicloprope | 7.31 | 110 | 32017 | 0.9300 | ug/L | 91 |
| 46) | Benzene | 7.55 | 78 | 290459 | 0.9917 | ug/L | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 69327 | 0.9803 | ug/L | 98 |
| 48) | TAME | 7.75 | 73 | 16216 | 0.9089 | ug/L | 99 |
| 49) | trichloroete | 8.37 | 95 | 76688 | 0.9745 | ug/L | 96 |
| 50) | methylcyclohexane | 8.64 | 83 | 112769 | 0.9111 | ug/L | 97 |
| 51) | 12dicloropra | 8.63 | 63 | 69706 | 0.9842 | ug/L | 97 |
| 52) | 23Dicl1propene | 8.69 | 75 | 106676 | 0.9869 | ug/L | 99 |
| 53) | Dibromometha | 8.77 | 93 | 27789 | 0.9470 | ug/L | 97 |
| 54) | methylmethacrylate | 8.80 | 69 | 21173 | 1.0269 | ug/L | 96 |
| 55) | 14dioxane | 8.85 | 88 | 11546 | 45.3657 | ug/L | 83 |
| 56) | Bromodiclrma | 8.96 | 83 | 84349 | 0.9575 | ug/L | 97 |
| 57) | 2Nitropropane | 9.23 | 43 | 71861 | 9.7285 | ug/L | 97 |
| 58) | c13dicloproe | 9.55 | 75 | 88812 | 0.9477 | ug/L | 95 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 227645 | 9.9119 | ug/L | 98 |
| 61) | Toluene | 10.00 | 92 | 183404 | 0.9972 | ug/L | 100 |
| 62) | t13Dicloprop | 10.26 | 75 | 63174 | 0.9526 | ug/L | 94 |
| 63) | ethylmethacrylate | 10.41 | 69 | 80217 | 1.9447 | ug/L | 95 |
| 64) | 112Triclotha | 10.49 | 83 | 32325 | 0.9751 | ug/L | 97 |
| 65) | Tetrachlorte | 10.75 | 166 | 81006 | 0.9807 | ug/L | 96 |
| 66) | 13Diclorpropa | 10.72 | 76 | 67759 | 0.9917 | ug/L | 99 |
| 68) | 2Hexanone | 10.85 | 43 | 166833 | 9.3133 | ug/L | 99 |
| 69) | Clorodibrmta | 11.02 | 129 | 50138 | 0.9649 | ug/L | 98 |
| 70) | 12Dibrometha | 11.18 | 107 | 36209 | 0.9409 | ug/L | 98 |
| 71) | Chlorobenzen | 11.88 | 112 | 189661 | 0.9801 | ug/L | 96 |
| 72) | 1Clhexane | 11.85 | 91 | 90245 | 0.8886 | ug/L | 92 |
| 73) | 1112Tetclota | 11.98 | 131 | 64305 | 0.9841 | ug/L | 99 |
| 74) | Ethylbenzene | 12.04 | 91 | 343347 | 0.9682 | ug/L | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 261580 | 1.9213 | ug/L | 98 |
| 76) | o-Xylene | 12.75 | 106 | 125032 | 0.9511 | ug/L | 98 |
| 77) | Styrene | 12.76 | 104 | 183272 | 0.9362 | ug/L | 97 |
| 78) | Bromoform | 12.99 | 173 | 22750 | 0.9273 | ug/L | 95 |
| 79) | Isopropylben | 13.28 | 105 | 326541 | 0.9441 | ug/L | 100 |
| 80) | cyclohexanone | 13.38 | 55 | 74955 | 19.0737 | ug/L | 98 |
| 83) | Bromobenzene | 13.70 | 156 | 72212 | 0.9820 | ug/L | 98 |
| 84) | 1122Tetrclta | 13.65 | 83 | 38798 | 0.9960 | ug/L | 100 |
| 85) | 123Triclproa | 13.71 | 75 | 38341 | 0.9460 | ug/L | 95 |
| 86) | 14dichloro2butene | 13.73 | 53 | 2769 | 1.1625 | ug/L | 89 |
| 87) | n-Propylbenz | 13.86 | 91 | 380334 | 0.9708 | ug/L | 100 |
| 88) | 2chlorotolue | 13.98 | 91 | 226256 | 0.9951 | ug/L | 98 |
| 89) | 4chlorotolue | 14.13 | 91 | 257524 | 1.0040 | ug/L | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 268072 | 0.9570 | ug/L | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 231956 | 0.9610 | ug/L | 99 |
| 92) | 124Trimetben | 14.66 | 105 | 266724 | 0.9858 | ug/L | 98 |
| 93) | sbutylbenzen | 14.91 | 105 | 339312 | 0.9791 | ug/L | 99 |
| 94) | 13Diclorbenz | 15.05 | 146 | 134602 | 0.9819 | ug/L | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 284292 | 0.9594 | ug/L | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 132064 | 0.9804 | ug/L | 96 |
| 97) | 12dichlorobe | 15.72 | 146 | 116895 | 0.9904 | ug/L | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 257535 | 0.9679 | ug/L | 98 |
| 99) | 12dibromo3cl | 16.81 | 157 | 6237 | 1.0354 | ug/L | 98 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 91651 | 0.9530 | ug/L | 98 |
| 101) | 124Trichlobe | 17.94 | 180 | 60000 | 0.9114 | ug/L | 94 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW4.D Vial: 8
Acq On : 13 Apr 2025 11:09 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 1.00/10.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:28:46 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 43724 | 0.9033 | ug/L | 97 |
| 103) Naphthalene | 18.24 | 128 | 80394 | 0.9281 | ug/L | 98 |
| 104) 123Trichlben | 18.55 | 180 | 48126 | 0.9504 | ug/L | 98 |

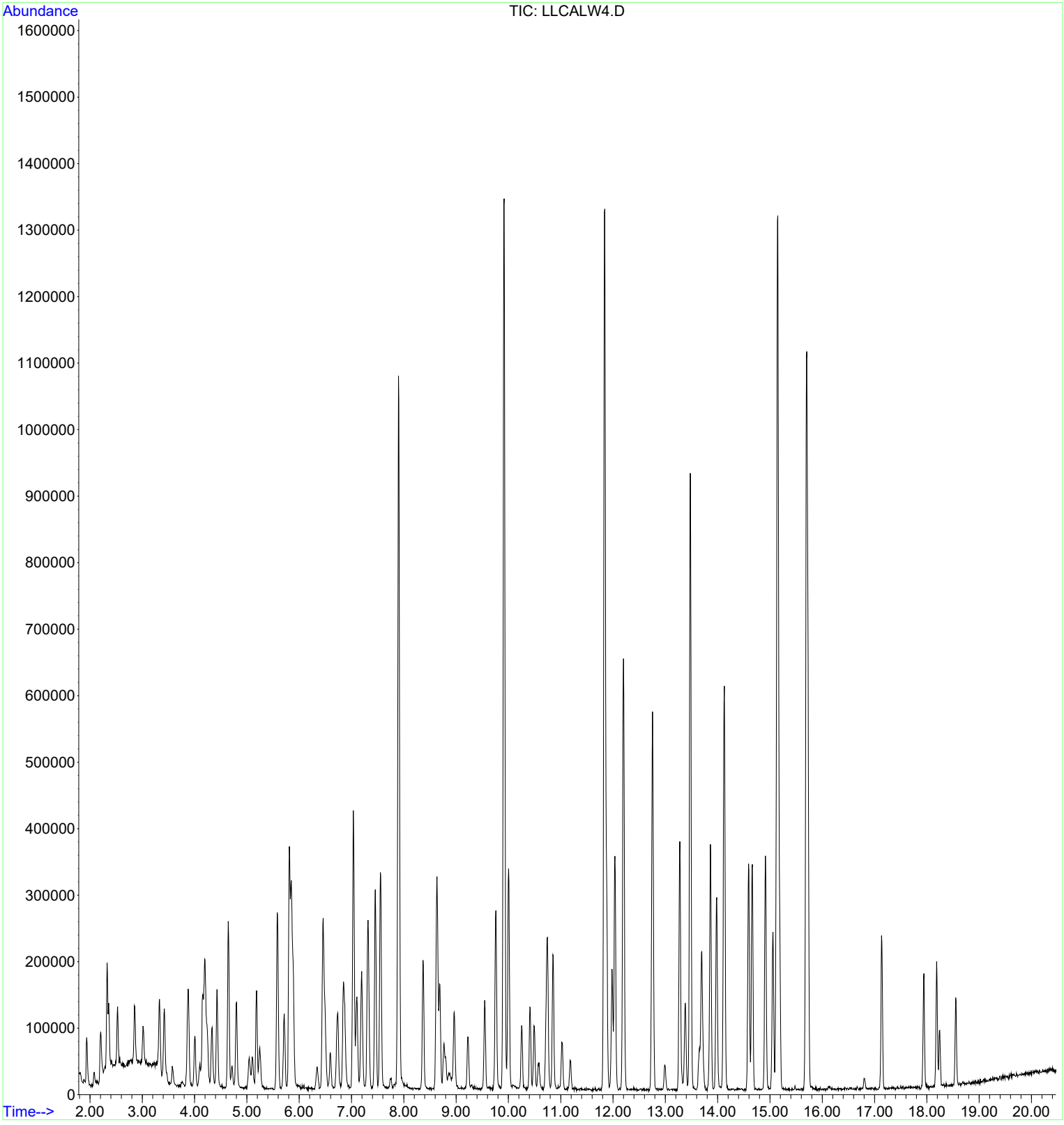
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW4.D Vial: 8
Acq On : 13 Apr 2025 11:09 Operator: RLD-DGS
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 1.00/10.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:28:46 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW5.D Vial: 9
Acq On : 13 Apr 2025 11:38 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 2.00/20.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:29:18 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1170608 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 863357 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 430261 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 291885 | 3.993 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 48741 | 3.895 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 97 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1168489 | 4.002 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 395099 | 4.084 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 102 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 164692 | 2.0486 | ug/L | 100 |
| 3) Chloromethan | 2.20 | 50 | 189315 | 1.9229 | ug/L | 99 |
| 4) VinylChlorid | 2.36 | 62 | 195530 | 1.9549 | ug/L | 99 |
| 5) Bromomethane | 2.86 | 94 | 120757 | 1.8971 | ug/L | 100 |
| 6) Chloroethane | 3.01 | 64 | 123155 | 1.9709 | ug/L | 98 |
| 7) Dichloroflmethane | 3.32 | 67 | 245381 | 1.9695 | ug/L | 99 |
| 8) Trichlorofma | 3.42 | 101 | 232107 | 2.0649 | ug/L | 99 |
| 9) Ethylether | 3.89 | 59 | 75708 | 1.9391 | ug/L | 96 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 160296 | 2.0941 | ug/L | 97 |
| 11) propyleneoxide | 4.10 | 58 | 100375 | 19.5278 | ug/L | 97 |
| 12) Acrolein | 4.01 | 56 | 54143 | 9.5919 | ug/L | 95 |
| 13) 11dichlorthe | 4.16 | 96 | 128891 | 1.9414 | ug/L | 99 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 248708 | 4.1354 | ug/L | 99 |
| 15) Acetone | 4.24 | 43 | 250837 | 19.9283 | ug/L | 99 |
| 16) Iodomethane | 4.33 | 142 | 286420 | 3.9856 | ug/L | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 517135 | 3.9223 | ug/L | 100 |
| 18) allylchloride | 4.64 | 41 | 377123 | 3.9606 | ug/L | 99 |
| 19) methylacetate | 4.72 | 74 | 21579 | 2.0182 | ug/L | 100 |
| 20) Methylchlorid | 4.80 | 84 | 134201 | 1.9182 | ug/L | 98 |
| 21) tbutylalcohol | 5.05 | 59 | 155621 | 94.5739 | ug/L | 99 |
| 22) Acrylonitrile | 5.11 | 53 | 78773 | 9.7615 | ug/L | 98 |
| 23) t12dichlorte | 5.19 | 96 | 137568 | 1.9306 | ug/L | 98 |
| 24) MtBE | 5.25 | 73 | 150848 | 1.9095 | ug/L | 98 |
| 25) Hexane | 5.59 | 57 | 369289 | 4.1783 | ug/L | 99 |
| 26) 11dichlorota | 5.71 | 63 | 254401 | 1.9387 | ug/L | 100 |
| 27) Vinylacetate | 5.81 | 43 | 1003297 | 18.4605 | ug/L | 99 |
| 28) chloroprene | 5.85 | 53 | 411777 | 4.0572 | ug/L | 99 |
| 29) Diisopether | 5.88 | 45 | 364971 | 1.9807 | ug/L | 97 |
| 30) ETBE | 6.34 | 59 | 76095 | 1.8471 | ug/L | 98 |
| 31) 22dichloropr | 6.46 | 77 | 188473 | 1.9952 | ug/L | 99 |
| 32) c12dichlorte | 6.45 | 96 | 150520 | 1.9365 | ug/L | 99 |
| 33) 2Butanone | 6.49 | 72 | 73497 | 20.8317 | ug/L | 97 |
| 34) propionitrile | 6.51 | 54 | 62519 | 19.9363 | ug/L | 97 |
| 35) Ethylacetate | 6.59 | 88 | 5986 | 9.5339 | ug/L # | 90 |
| 36) methacrylonitrile | 6.72 | 67 | 43935 | 3.9664 | ug/L | 96 |
| 37) Bromochlorma | 6.74 | 128 | 56143 | 1.9699 | ug/L | 95 |
| 38) Tetrahydofur | 6.87 | 42 | 129360 | 18.2643 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW5.D Vial: 9
Acq On : 13 Apr 2025 11:38 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 2.00/20.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:29:18 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 254233 | 1.9013 | ug/L | 98 |
| 40) | 111trichlota | 7.10 | 97 | 231593 | 1.9874 | ug/L | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 221718 | 2.0249 | ug/L | 97 |
| 43) | Carbtetraclo | 7.33 | 119 | 205166 | 2.0183 | ug/L | 99 |
| 44) | 11dicloprope | 7.31 | 110 | 69881 | 2.0217 | ug/L | 98 |
| 46) | Benzene | 7.56 | 78 | 572352 | 1.9465 | ug/L | 100 |
| 47) | 12dichlorota | 7.55 | 62 | 138080 | 1.9447 | ug/L | 97 |
| 48) | TAME | 7.75 | 73 | 31024 | 1.7320 | ug/L | 98 |
| 49) | trichloroete | 8.37 | 95 | 152778 | 1.9338 | ug/L | 98 |
| 50) | methylcyclohexane | 8.64 | 83 | 259501 | 2.0883 | ug/L | 98 |
| 51) | 12dicloropra | 8.63 | 63 | 143844 | 2.0229 | ug/L | 98 |
| 52) | 23Dicl1propene | 8.68 | 75 | 206811 | 1.9058 | ug/L | 98 |
| 53) | Dibromometha | 8.76 | 93 | 56334 | 1.9122 | ug/L | 99 |
| 54) | methylmethacrylate | 8.81 | 69 | 41648 | 2.0119 | ug/L | 97 |
| 55) | 14dioxane | 8.84 | 88 | 26847 | 105.0685 | ug/L | 96 |
| 56) | Bromodiclrma | 8.96 | 83 | 170804 | 1.9313 | ug/L | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 145664 | 19.6421 | ug/L | 99 |
| 58) | c13dicloproe | 9.55 | 75 | 183265 | 1.9479 | ug/L | 98 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 455357 | 19.7484 | ug/L | 99 |
| 61) | Toluene | 10.00 | 92 | 369749 | 2.0024 | ug/L | 99 |
| 62) | t13Dicloprop | 10.25 | 75 | 128844 | 1.9351 | ug/L | 97 |
| 63) | ethylmethacrylate | 10.41 | 69 | 159773 | 3.8580 | ug/L | 97 |
| 64) | 112Triclotha | 10.50 | 83 | 64472 | 1.9372 | ug/L | 98 |
| 65) | Tetrachlorte | 10.75 | 166 | 163322 | 1.9695 | ug/L | 100 |
| 66) | 13Diclorpropa | 10.72 | 76 | 135535 | 1.9757 | ug/L | 97 |
| 68) | 2Hexanone | 10.85 | 43 | 368365 | 20.8592 | ug/L | 97 |
| 69) | Clorodibrmta | 11.03 | 129 | 99238 | 1.9372 | ug/L | 97 |
| 70) | 12Dibrometha | 11.18 | 107 | 74231 | 1.9566 | ug/L | 100 |
| 71) | Chlorobenzen | 11.88 | 112 | 379697 | 1.9904 | ug/L | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 194990 | 1.9475 | ug/L | 97 |
| 73) | 1112Tetclota | 11.98 | 131 | 127147 | 1.9738 | ug/L | 97 |
| 74) | Ethylbenzene | 12.04 | 91 | 701790 | 2.0075 | ug/L | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 536606 | 3.9979 | ug/L | 99 |
| 76) | o-Xylene | 12.75 | 106 | 260052 | 2.0066 | ug/L | 98 |
| 77) | Styrene | 12.76 | 104 | 384253 | 1.9911 | ug/L | 99 |
| 78) | Bromoform | 12.99 | 173 | 47489 | 1.9634 | ug/L | 97 |
| 79) | Isopropylben | 13.28 | 105 | 684013 | 2.0060 | ug/L | 100 |
| 80) | cyclohexanone | 13.38 | 55 | 153231 | 39.5527 | ug/L | 99 |
| 83) | Bromobenzene | 13.70 | 156 | 144918 | 1.9785 | ug/L | 98 |
| 84) | 1122Tetrclta | 13.65 | 83 | 75840 | 1.9546 | ug/L | 96 |
| 85) | 123Triclproa | 13.72 | 75 | 81452 | 2.0177 | ug/L | 99 |
| 86) | 14dichloro2butene | 13.75 | 53 | 4771 | 1.9768 | ug/L | 97 |
| 87) | n-Propylbenz | 13.86 | 91 | 798425 | 2.0460 | ug/L | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 453680 | 2.0033 | ug/L | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 515209 | 2.0165 | ug/L | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 555267 | 1.9901 | ug/L | 98 |
| 91) | tbutylbenzen | 14.60 | 119 | 482376 | 2.0063 | ug/L | 98 |
| 92) | 124Trimetben | 14.66 | 105 | 544181 | 2.0192 | ug/L | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 702724 | 2.0357 | ug/L | 98 |
| 94) | 13Diclorbenz | 15.06 | 146 | 268863 | 1.9691 | ug/L | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 603676 | 2.0452 | ug/L | 98 |
| 96) | 14dichlorobe | 15.18 | 146 | 264709 | 1.9729 | ug/L | 100 |
| 97) | 12dichlorobe | 15.73 | 146 | 234161 | 1.9917 | ug/L | 98 |
| 98) | nButylbenzen | 15.73 | 91 | 527050 | 1.9886 | ug/L | 98 |
| 99) | 12dibromo3cl | 16.80 | 157 | 11306 | 1.8843 | ug/L | 98 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 189511 | 1.9783 | ug/L | 98 |
| 101) | 124Trichlobe | 17.94 | 180 | 127532 | 1.9449 | ug/L | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW5.D Vial: 9
Acq On : 13 Apr 2025 11:38 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 2.00/20.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:29:18 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 99701 | 2.0678 | ug/L | 97 |
| 103) Naphthalene | 18.25 | 128 | 162839 | 1.8873 | ug/L | 98 |
| 104) 123Trichlben | 18.55 | 180 | 97529 | 1.9335 | ug/L | 98 |

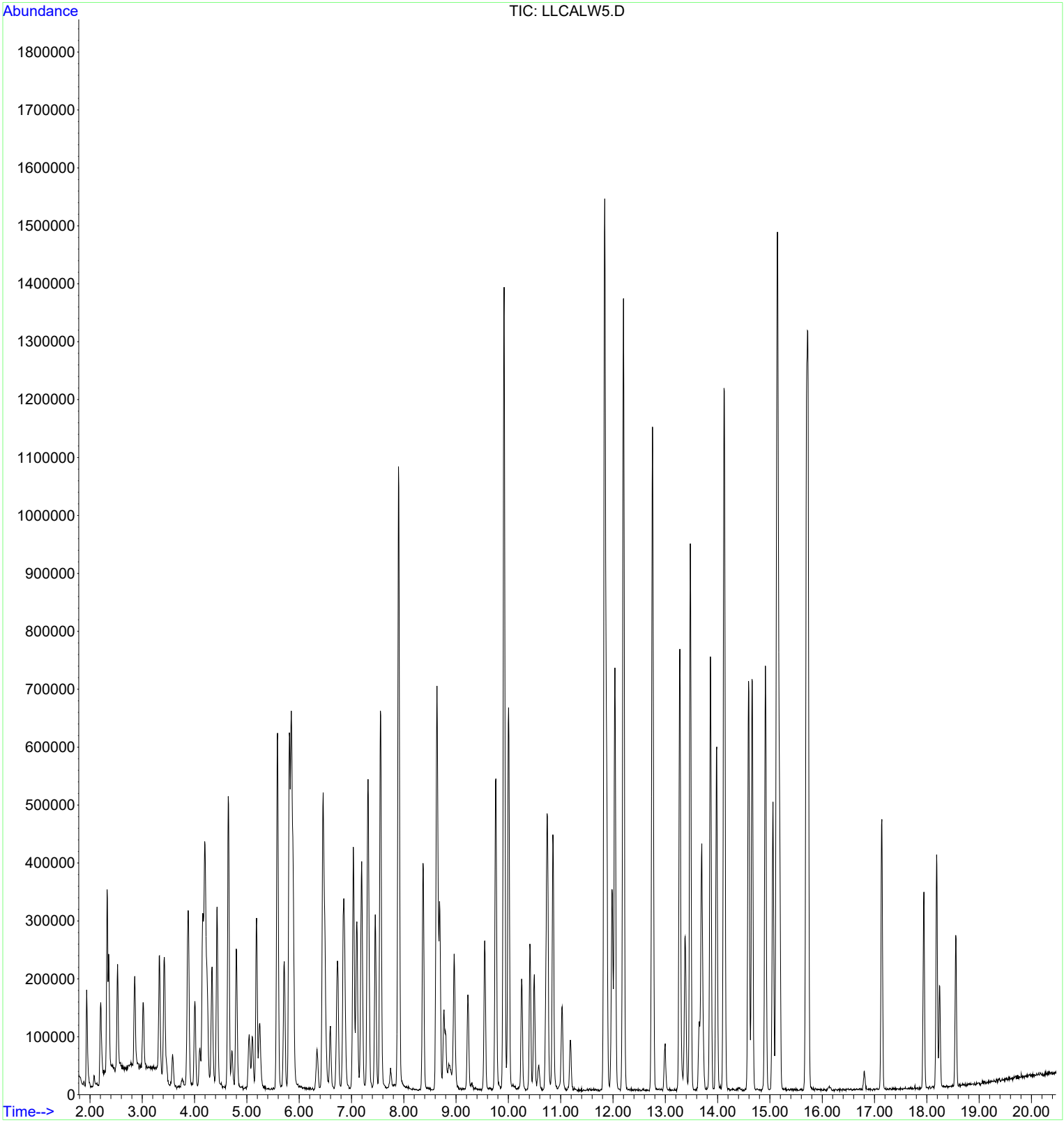
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW5.D Vial: 9
Acq On : 13 Apr 2025 11:38 Operator: RLD-DGS
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 2.00/20.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:29:18 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW6.D Vial: 10
Acq On : 13 Apr 2025 12:06 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:29:55 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1188523 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 882758 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 444219 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 301798 | 4.066 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 102 | % | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 50203 | 3.951 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1183327 | 3.992 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 393876 | 3.944 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 342329 | 4.1941 | ug/L | 100 |
| 3) Chloromethan | 2.20 | 50 | 376215 | 3.7637 | ug/L | 100 |
| 4) VinylChlorid | 2.36 | 62 | 407045 | 4.0083 | ug/L | 100 |
| 5) Bromomethane | 2.86 | 94 | 235908 | 3.6503 | ug/L | 100 |
| 6) Chloroethane | 3.01 | 64 | 247470 | 3.9006 | ug/L | 100 |
| 7) Dichloroflmethane | 3.33 | 67 | 489480 | 3.8694 | ug/L | 100 |
| 8) Trichlorofma | 3.42 | 101 | 485060 | 4.2503 | ug/L | 100 |
| 9) Ethylether | 3.88 | 59 | 149345 | 3.7675 | ug/L | 100 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 318026 | 4.0920 | ug/L | 100 |
| 11) propyleneoxide | 4.10 | 58 | 199565 | 38.2398 | ug/L | 100 |
| 12) Acrolein | 4.01 | 56 | 103092 | 17.9884 | ug/L | 100 |
| 13) 11dichlorthe | 4.15 | 96 | 265181 | 3.9340 | ug/L | 100 |
| 14) Trichlorotfluoroeth | 4.20 | 101 | 516337 | 8.4561 | ug/L | 100 |
| 15) Acetone | 4.24 | 43 | 455908 | 35.6747 | ug/L | 100 |
| 16) Iodomethane | 4.33 | 142 | 635761 | 8.7133 | ug/L | 100 |
| 17) Carbon Dislf | 4.43 | 76 | 1056926 | 7.8956 | ug/L | 100 |
| 18) allylchloride | 4.64 | 41 | 754809 | 7.8076 | ug/L | 100 |
| 19) methylacetate | 4.71 | 74 | 40416 | 3.7230 | ug/L | 100 |
| 20) Methylchlorid | 4.80 | 84 | 267924 | 3.8680 | ug/L | 100 |
| 21) tbutylalcohol | 5.04 | 59 | 304170 | 182.0636 | ug/L | 100 |
| 22) Acrylonitrile | 5.11 | 53 | 153078 | 18.6834 | ug/L | 100 |
| 23) t12dichlorte | 5.19 | 96 | 277238 | 3.8321 | ug/L | 100 |
| 24) MtBE | 5.25 | 73 | 305924 | 3.8141 | ug/L | 100 |
| 25) Hexane | 5.58 | 57 | 764617 | 8.5207 | ug/L | 100 |
| 26) 11dichlorota | 5.72 | 63 | 515138 | 3.8665 | ug/L | 100 |
| 27) Vinylacetate | 5.81 | 43 | 1964392 | 35.5996 | ug/L | 100 |
| 28) chloroprene | 5.85 | 53 | 844466 | 8.1951 | ug/L | 100 |
| 29) Diisopether | 5.88 | 45 | 727285 | 3.8874 | ug/L | 100 |
| 30) ETBE | 6.34 | 59 | 157491 | 3.7652 | ug/L | 100 |
| 31) 22dichloropr | 6.46 | 77 | 372670 | 3.8858 | ug/L | 100 |
| 32) c12dichlorte | 6.45 | 96 | 298335 | 3.7803 | ug/L | 100 |
| 33) 2Butanone | 6.49 | 72 | 138879 | 38.7701 | ug/L | 100 |
| 34) propionitrile | 6.51 | 54 | 120076 | 37.7132 | ug/L | 100 |
| 35) Ethylacetate | 6.59 | 88 | 12205 | 19.1459 | ug/L | 100 |
| 36) methacrylonitrile | 6.72 | 67 | 84219 | 7.4886 | ug/L | 100 |
| 37) Bromochlorma | 6.74 | 128 | 115637 | 3.9963 | ug/L | 100 |
| 38) Tetrahydofur | 6.87 | 42 | 264003 | 36.7128 | ug/L | 100 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW6.D Vial: 10
Acq On : 13 Apr 2025 12:06 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:29:55 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 511255 | 3.7659 | ug/L | 100 |
| 40) | 111trichlota | 7.10 | 97 | 481299 | 4.0679 | ug/L | 100 |
| 42) | Cyclohexane | 7.19 | 56 | 468966 | 4.2185 | ug/L | 100 |
| 43) | Carbtetraclo | 7.33 | 119 | 421836 | 4.0872 | ug/L | 100 |
| 44) | 11dicloprope | 7.31 | 110 | 143509 | 4.0893 | ug/L | 100 |
| 46) | Benzene | 7.55 | 78 | 1154346 | 3.8667 | ug/L | 100 |
| 47) | 12dichlorota | 7.55 | 62 | 265602 | 3.6843 | ug/L | 100 |
| 48) | TAME | 7.75 | 73 | 70426 | 3.8724 | ug/L | 100 |
| 49) | trichloroete | 8.37 | 95 | 310535 | 3.8713 | ug/L | 100 |
| 50) | methylcyclohexane | 8.64 | 83 | 534655 | 4.2376 | ug/L | 100 |
| 51) | 12dicloropra | 8.62 | 63 | 275320 | 3.8135 | ug/L | 100 |
| 52) | 23Dicl1propene | 8.68 | 75 | 432660 | 3.9270 | ug/L | 100 |
| 53) | Dibromometha | 8.76 | 93 | 113011 | 3.7783 | ug/L | 100 |
| 54) | methylmethacrylate | 8.80 | 69 | 82142 | 3.9083 | ug/L | 100 |
| 55) | 14dioxane | 8.85 | 88 | 51071 | 196.8588 | ug/L | 99 |
| 56) | Bromodiclrma | 8.96 | 83 | 346380 | 3.8575 | ug/L | 100 |
| 57) | 2Nitropropane | 9.23 | 43 | 291958 | 38.7757 | ug/L | 100 |
| 58) | c13dicloproe | 9.55 | 75 | 377538 | 3.9523 | ug/L | 100 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 895887 | 38.2682 | ug/L | 100 |
| 61) | Toluene | 10.00 | 92 | 741212 | 3.9536 | ug/L | 100 |
| 62) | t13Dicloprop | 10.25 | 75 | 261962 | 3.8752 | ug/L | 100 |
| 63) | ethylmethacrylate | 10.41 | 69 | 332533 | 7.9086 | ug/L | 100 |
| 64) | 112Triclotha | 10.50 | 83 | 130336 | 3.8573 | ug/L | 100 |
| 65) | Tetrachlorte | 10.75 | 166 | 338690 | 4.0227 | ug/L | 100 |
| 66) | 13Diclorpropa | 10.72 | 76 | 261379 | 3.7527 | ug/L | 100 |
| 68) | 2Hexanone | 10.85 | 43 | 676763 | 37.4804 | ug/L | 100 |
| 69) | Clorodibrmta | 11.03 | 129 | 205639 | 3.9260 | ug/L | 100 |
| 70) | 12Dibrometha | 11.18 | 107 | 148424 | 3.8262 | ug/L | 100 |
| 71) | Chlorobenzen | 11.88 | 112 | 761166 | 3.9024 | ug/L | 100 |
| 72) | 1Clhexane | 11.85 | 91 | 410404 | 4.0089 | ug/L | 100 |
| 73) | 1112Tetclota | 11.98 | 131 | 263644 | 4.0029 | ug/L | 100 |
| 74) | Ethylbenzene | 12.04 | 91 | 1407622 | 3.9381 | ug/L | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 1083798 | 7.8973 | ug/L | 100 |
| 76) | o-Xylene | 12.75 | 106 | 514002 | 3.8789 | ug/L | 100 |
| 77) | Styrene | 12.76 | 104 | 790110 | 4.0042 | ug/L | 100 |
| 78) | Bromoform | 13.00 | 173 | 100431 | 4.0610 | ug/L | 100 |
| 79) | Isopropylben | 13.28 | 105 | 1415715 | 4.0607 | ug/L | 100 |
| 80) | cyclohexanone | 13.38 | 55 | 298753 | 75.4208 | ug/L | 100 |
| 83) | Bromobenzene | 13.70 | 156 | 296863 | 3.9256 | ug/L | 100 |
| 84) | 1122Tetrclta | 13.65 | 83 | 153111 | 3.8222 | ug/L | 100 |
| 85) | 123Triclproa | 13.71 | 75 | 160783 | 3.8576 | ug/L | 100 |
| 86) | 14dichloro2butene | 13.73 | 53 | 9817 | 3.8419 | ug/L | 100 |
| 87) | n-Propylbenz | 13.86 | 91 | 1633353 | 4.0540 | ug/L | 100 |
| 88) | 2chlorotolue | 13.98 | 91 | 910441 | 3.8938 | ug/L | 100 |
| 89) | 4chlorotolue | 14.13 | 91 | 1040666 | 3.9452 | ug/L | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 1160990 | 4.0303 | ug/L | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 1011852 | 4.0762 | ug/L | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 1104027 | 3.9677 | ug/L | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 1478200 | 4.1476 | ug/L | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 548844 | 3.8933 | ug/L | 100 |
| 95) | pIsopropylto | 15.13 | 119 | 1260295 | 4.1355 | ug/L | 100 |
| 96) | 14dichlorobe | 15.19 | 146 | 541136 | 3.9064 | ug/L | 100 |
| 97) | 12dichlorobe | 15.73 | 146 | 469154 | 3.8650 | ug/L | 100 |
| 98) | nButylbenzen | 15.73 | 91 | 1122601 | 4.1026 | ug/L | 100 |
| 99) | 12dibromo3cl | 16.81 | 157 | 23024 | 3.7167 | ug/L | 100 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 391311 | 3.9565 | ug/L | 100 |
| 101) | 124Trichlobe | 17.94 | 180 | 269680 | 3.9835 | ug/L | 100 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW6.D Vial: 10
Acq On : 13 Apr 2025 12:06 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:29:55 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 203147 | 4.0809 | ug/L | 100 |
| 103) Naphthalene | 18.25 | 128 | 349861 | 3.9274 | ug/L | 100 |
| 104) 123Trichlben | 18.55 | 180 | 205869 | 3.9532 | ug/L | 100 |

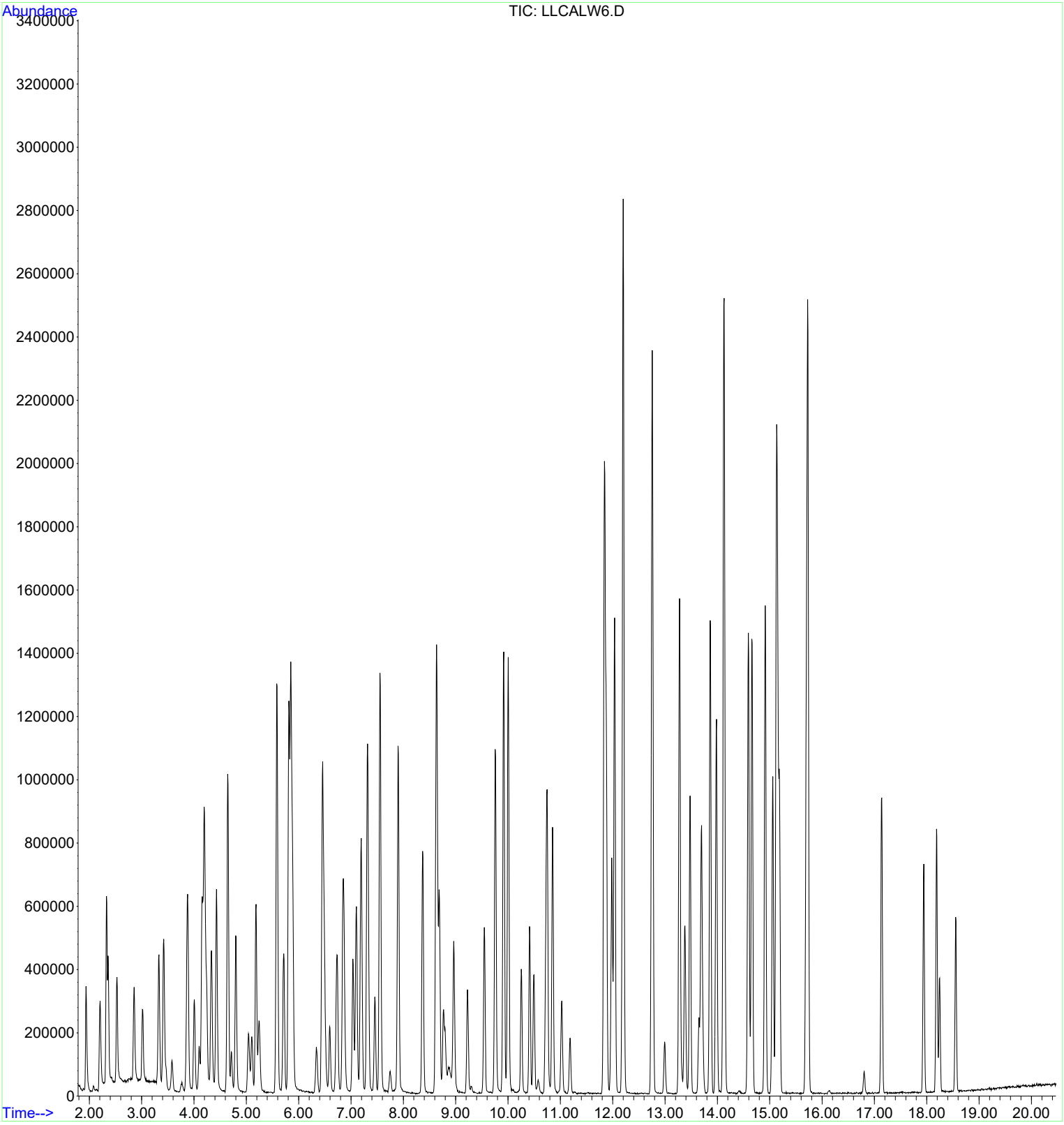
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW6.D Vial: 10
Acq On : 13 Apr 2025 12:06 Operator: RLD-DGS
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:29:55 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW7.D Vial: 11
Acq On : 13 Apr 2025 12:34 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 6.00/60.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:30:32 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1145892 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 853405 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 435154 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 285421 | 3.988 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 49271 | 4.022 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 101 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1148359 | 4.018 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 387846 | 3.964 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 458794 | 5.8301 | ug/L | 100 |
| 3) Chloromethan | 2.20 | 50 | 531222 | 5.5122 | ug/L | 100 |
| 4) VinylChlorid | 2.36 | 62 | 554610 | 5.6646 | ug/L | 98 |
| 5) Bromomethane | 2.86 | 94 | 332794 | 5.3410 | ug/L | 100 |
| 6) Chloroethane | 3.01 | 64 | 324504 | 5.3051 | ug/L | 99 |
| 7) Dichloroflmethane | 3.33 | 67 | 654435 | 5.3659 | ug/L | 98 |
| 8) Trichlorofma | 3.42 | 101 | 638866 | 5.8062 | ug/L | 98 |
| 9) Ethylether | 3.89 | 59 | 219865 | 5.7529 | ug/L | 99 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 433698 | 5.7879 | ug/L | 99 |
| 11) propyleneoxide | 4.10 | 58 | 308215 | 61.2561 | ug/L | 97 |
| 12) Acrolein | 4.01 | 56 | 156974 | 28.4092 | ug/L | 93 |
| 13) 11dichlorthe | 4.15 | 96 | 368531 | 5.6706 | ug/L | 98 |
| 14) Trichlorotfluoroeth | 4.20 | 101 | 701998 | 11.9243 | ug/L | 99 |
| 15) Acetone | 4.24 | 43 | 675269 | 54.8055 | ug/L | 98 |
| 16) Iodomethane | 4.33 | 142 | 954891 | 13.5740 | ug/L | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 1503559 | 11.6499 | ug/L | 99 |
| 18) allylchloride | 4.64 | 41 | 1082404 | 11.6127 | ug/L | 100 |
| 19) methylacetate | 4.72 | 74 | 61932 | 5.9172 | ug/L | 99 |
| 20) Methylchlorid | 4.80 | 84 | 391751 | 5.9893 | ug/L | 98 |
| 21) tbutylalcohol | 5.05 | 59 | 485705 | 301.5389 | ug/L | 96 |
| 22) Acrylonitrile | 5.11 | 53 | 229568 | 29.0616 | ug/L | 99 |
| 23) t12dichlorte | 5.19 | 96 | 402225 | 5.7666 | ug/L | 99 |
| 24) MtBE | 5.25 | 73 | 463439 | 5.9928 | ug/L | 98 |
| 25) Hexane | 5.59 | 57 | 1026023 | 11.8592 | ug/L | 100 |
| 26) 11dichlorota | 5.72 | 63 | 745478 | 5.8035 | ug/L | 100 |
| 27) Vinylacetate | 5.81 | 43 | 2836374 | 53.3144 | ug/L | 99 |
| 28) chloroprene | 5.85 | 53 | 1179013 | 11.8674 | ug/L | 99 |
| 29) Diisopether | 5.89 | 45 | 1078365 | 5.9784 | ug/L | 100 |
| 30) ETBE | 6.34 | 59 | 248696 | 6.1670 | ug/L | 100 |
| 31) 22dichloropr | 6.46 | 77 | 542343 | 5.8653 | ug/L | 99 |
| 32) c12dichlorte | 6.45 | 96 | 450057 | 5.9149 | ug/L | 97 |
| 33) 2Butanone | 6.49 | 72 | 209009 | 60.5186 | ug/L | 99 |
| 34) propionitrile | 6.51 | 54 | 185033 | 60.2768 | ug/L | 97 |
| 35) Ethylacetate | 6.60 | 88 | 18069 | 29.3992 | ug/L # | 87 |
| 36) methacrylonitrile | 6.72 | 67 | 127503 | 11.7591 | ug/L | 96 |
| 37) Bromochlorma | 6.74 | 128 | 165805 | 5.9432 | ug/L | 97 |
| 38) Tetrahydofur | 6.87 | 42 | 386520 | 55.7499 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW7.D Vial: 11
Acq On : 13 Apr 2025 12:34 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 6.00/60.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:30:32 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 744782 | 5.6902 | ug/L | 99 |
| 40) | 111trichlota | 7.10 | 97 | 674875 | 5.9162 | ug/L | 100 |
| 42) | Cyclohexane | 7.20 | 56 | 627880 | 5.8581 | ug/L | 99 |
| 43) | Carbtetraclo | 7.33 | 119 | 586345 | 5.8925 | ug/L | 100 |
| 44) | 11dicloprope | 7.32 | 110 | 203544 | 6.0158 | ug/L | 99 |
| 46) | Benzene | 7.56 | 78 | 1660481 | 5.7690 | ug/L | 100 |
| 47) | 12dichlorota | 7.55 | 62 | 400722 | 5.7654 | ug/L | 99 |
| 48) | TAME | 7.75 | 73 | 112893 | 6.4384 | ug/L | 97 |
| 49) | trichloroete | 8.37 | 95 | 445324 | 5.7583 | ug/L | 98 |
| 50) | methylcyclohexane | 8.64 | 83 | 720207 | 5.9207 | ug/L | 98 |
| 51) | 12dicloropra | 8.62 | 63 | 413010 | 5.9335 | ug/L | 99 |
| 52) | 23Dicl1propene | 8.69 | 75 | 645706 | 6.0787 | ug/L | 98 |
| 53) | Dibromometha | 8.77 | 93 | 166461 | 5.7723 | ug/L | 98 |
| 54) | methylmethacrylate | 8.80 | 69 | 117591 | 5.8031 | ug/L | 98 |
| 55) | 14dioxane | 8.84 | 88 | 76824 | 307.1435 | ug/L | 95 |
| 56) | Bromodiclrma | 8.96 | 83 | 519082 | 5.9959 | ug/L | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 433318 | 59.6911 | ug/L | 97 |
| 58) | c13dicloproe | 9.55 | 75 | 560785 | 6.0890 | ug/L | 99 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 1349829 | 59.8036 | ug/L | 99 |
| 61) | Toluene | 10.00 | 92 | 1075239 | 5.9487 | ug/L | 100 |
| 62) | t13Dicloprop | 10.25 | 75 | 396201 | 6.0790 | ug/L | 99 |
| 63) | ethylmethacrylate | 10.42 | 69 | 500409 | 12.3439 | ug/L | 99 |
| 64) | 112Triclotha | 10.49 | 83 | 196608 | 6.0351 | ug/L | 99 |
| 65) | Tetrachlorte | 10.75 | 166 | 478670 | 5.8967 | ug/L | 99 |
| 66) | 13Diclorpropa | 10.72 | 76 | 398983 | 5.9415 | ug/L | 98 |
| 68) | 2Hexanone | 10.85 | 43 | 1027140 | 58.8415 | ug/L | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 310726 | 6.1364 | ug/L | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 224887 | 5.9968 | ug/L | 97 |
| 71) | Chlorobenzen | 11.88 | 112 | 1123425 | 5.9578 | ug/L | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 562822 | 5.6869 | ug/L | 100 |
| 73) | 1112Tetclota | 11.98 | 131 | 386197 | 6.0653 | ug/L | 99 |
| 74) | Ethylbenzene | 12.04 | 91 | 2028471 | 5.8702 | ug/L | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 1580827 | 11.9152 | ug/L | 98 |
| 76) | o-Xylene | 12.75 | 106 | 763493 | 5.9599 | ug/L | 98 |
| 77) | Styrene | 12.76 | 104 | 1192338 | 6.2505 | ug/L | 99 |
| 78) | Bromoform | 13.00 | 173 | 151513 | 6.3373 | ug/L | 97 |
| 79) | Isopropylben | 13.28 | 105 | 2010884 | 5.9662 | ug/L | 100 |
| 80) | cyclohexanone | 13.38 | 55 | 468138 | 122.2472 | ug/L | 100 |
| 83) | Bromobenzene | 13.69 | 156 | 437632 | 5.9076 | ug/L | 99 |
| 84) | 1122Tetrclta | 13.65 | 83 | 228545 | 5.8241 | ug/L | 98 |
| 85) | 123Triclproa | 13.71 | 75 | 241201 | 5.9076 | ug/L | 97 |
| 86) | 14dichloro2butene | 13.73 | 53 | 15815 | 6.1571 | ug/L | 98 |
| 87) | n-Propylbenz | 13.86 | 91 | 2342993 | 5.9365 | ug/L | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 1348042 | 5.8855 | ug/L | 100 |
| 89) | 4chlorotolue | 14.13 | 91 | 1530655 | 5.9236 | ug/L | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 1682298 | 5.9617 | ug/L | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 1442253 | 5.9311 | ug/L | 98 |
| 92) | 124Trimetben | 14.66 | 105 | 1638110 | 6.0098 | ug/L | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 2100980 | 6.0178 | ug/L | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 817372 | 5.9189 | ug/L | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 1821973 | 6.1032 | ug/L | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 801435 | 5.9059 | ug/L | 100 |
| 97) | 12dichlorobe | 15.72 | 146 | 692910 | 5.8273 | ug/L | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 1619278 | 6.0410 | ug/L | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 35071 | 5.7794 | ug/L | 96 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 591227 | 6.1023 | ug/L | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 410945 | 6.1966 | ug/L | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW7.D Vial: 11
Acq On : 13 Apr 2025 12:34 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 6.00/60.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:30:32 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 294745 | 6.0443 | ug/L | 98 |
| 103) Naphthalene | 18.25 | 128 | 546080 | 6.2578 | ug/L | 99 |
| 104) 123Trichlben | 18.55 | 180 | 316624 | 6.2066 | ug/L | 99 |

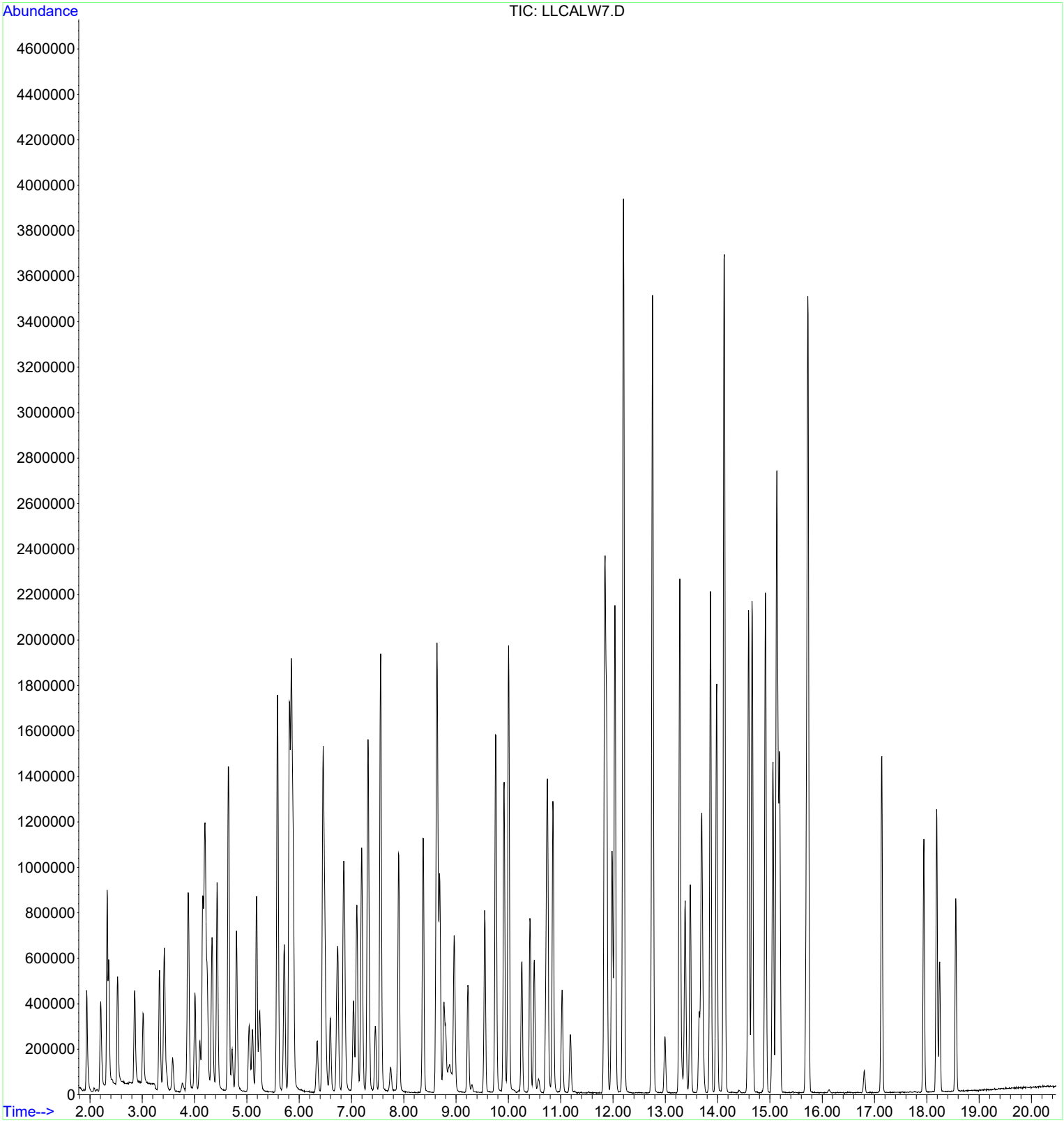
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW7.D Vial: 11
Acq On : 13 Apr 2025 12:34 Operator: RLD-DGS
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 6.00/60.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:30:32 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW8.D Vial: 12
Acq On : 13 Apr 2025 13:02 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:31:09 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.91 | 96 | 1183347 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 880214 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 467595 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 295785 | 4.002 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 49064 | 3.878 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 97 | % | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1191825 | 4.038 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 101 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 404245 | 3.845 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 96 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 693305 | 8.5313 | ug/L | 99 |
| 3) Chloromethan | 2.20 | 50 | 754645 | 7.5826 | ug/L | 100 |
| 4) VinylChlorid | 2.36 | 62 | 808764 | 7.9990 | ug/L | 98 |
| 5) Bromomethane | 2.86 | 94 | 479646 | 7.4542 | ug/L | 98 |
| 6) Chloroethane | 3.01 | 64 | 475715 | 7.5310 | ug/L | 100 |
| 7) Dichloroflmethane | 3.32 | 67 | 952241 | 7.5606 | ug/L | 99 |
| 8) Trichlorofma | 3.42 | 101 | 957195 | 8.4239 | ug/L | 99 |
| 9) Ethylether | 3.88 | 59 | 299709 | 7.5939 | ug/L | 99 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 638320 | 8.2490 | ug/L | 100 |
| 11) propyleneoxide | 4.10 | 58 | 434418 | 83.6055 | ug/L | 99 |
| 12) Acrolein | 4.00 | 56 | 217715 | 38.1550 | ug/L | 91 |
| 13) 11dichlorthe | 4.15 | 96 | 529551 | 7.8902 | ug/L | 100 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 1034137 | 17.0102 | ug/L | 99 |
| 15) Acetone | 4.24 | 43 | 964567 | 75.8073 | ug/L | 98 |
| 16) Iodomethane | 4.33 | 142 | 1346170 | 18.5304 | ug/L | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 2160371 | 16.2092 | ug/L | 100 |
| 18) allylchloride | 4.64 | 41 | 1496244 | 15.5445 | ug/L | 99 |
| 19) methylacetate | 4.72 | 74 | 84649 | 7.8317 | ug/L | 98 |
| 20) Methylchlorid | 4.80 | 84 | 539570 | 8.1472 | ug/L | 99 |
| 21) tbutylalcohol | 5.04 | 59 | 680508 | 409.1057 | ug/L | 97 |
| 22) Acrylonitrile | 5.11 | 53 | 324913 | 39.8297 | ug/L | 97 |
| 23) t12dichlorte | 5.19 | 96 | 556706 | 7.7287 | ug/L | 98 |
| 24) MtBE | 5.25 | 73 | 635249 | 7.9545 | ug/L | 99 |
| 25) Hexane | 5.59 | 57 | 1564961 | 17.5159 | ug/L | 99 |
| 26) 11dichlorota | 5.71 | 63 | 1032399 | 7.7828 | ug/L | 99 |
| 27) Vinylacetate | 5.81 | 43 | 3796200 | 69.0974 | ug/L | 100 |
| 28) chloroprene | 5.85 | 53 | 1685750 | 16.4309 | ug/L | 98 |
| 29) Diisopether | 5.88 | 45 | 1472501 | 7.9051 | ug/L | 96 |
| 30) ETBE | 6.34 | 59 | 348354 | 8.3648 | ug/L | 99 |
| 31) 22dichloropr | 6.46 | 77 | 759044 | 7.9490 | ug/L | 99 |
| 32) c12dichlorte | 6.45 | 96 | 615388 | 7.8318 | ug/L | 99 |
| 33) 2Butanone | 6.48 | 72 | 296775 | 83.2114 | ug/L | 97 |
| 34) propionitrile | 6.51 | 54 | 254025 | 80.1326 | ug/L | 99 |
| 35) Ethylacetate | 6.60 | 88 | 25182 | 39.6755 | ug/L # | 90 |
| 36) methacrylonitrile | 6.72 | 67 | 181754 | 16.2318 | ug/L | 98 |
| 37) Bromochlorma | 6.74 | 128 | 228525 | 7.9321 | ug/L | 99 |
| 38) Tetrahydofur | 6.86 | 42 | 533818 | 74.5584 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW8.D Vial: 12
Acq On : 13 Apr 2025 13:02 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:31:09 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 1023267 | 7.5704 | ug/L | 99 |
| 40) | 111trichlota | 7.10 | 97 | 963689 | 8.1807 | ug/L | 98 |
| 42) | Cyclohexane | 7.19 | 56 | 940256 | 8.4949 | ug/L | 99 |
| 43) | Carbtetraclo | 7.32 | 119 | 865919 | 8.4267 | ug/L | 100 |
| 44) | 11dicloprope | 7.31 | 110 | 295333 | 8.4523 | ug/L | 100 |
| 46) | Benzene | 7.55 | 78 | 2298651 | 7.7334 | ug/L | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 547283 | 7.6248 | ug/L | 100 |
| 48) | TAME | 7.75 | 73 | 162318 | 8.9642 | ug/L | 98 |
| 49) | trichloroete | 8.37 | 95 | 640863 | 8.0244 | ug/L | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 1103547 | 8.7849 | ug/L | 99 |
| 51) | 12dicloropra | 8.62 | 63 | 569039 | 7.9163 | ug/L | 100 |
| 52) | 23Dicl1propene | 8.68 | 75 | 854700 | 7.7915 | ug/L | 99 |
| 53) | Dibromometha | 8.76 | 93 | 234079 | 7.8602 | ug/L | 99 |
| 54) | methylmethacrylate | 8.80 | 69 | 163547 | 7.8156 | ug/L | 95 |
| 55) | 14dioxane | 8.84 | 88 | 112836 | 436.8413 | ug/L | 98 |
| 56) | Bromodiclrma | 8.96 | 83 | 696618 | 7.7919 | ug/L | 100 |
| 57) | 2Nitropropane | 9.23 | 43 | 622164 | 82.9926 | ug/L | 98 |
| 58) | c13dicloproe | 9.55 | 75 | 772193 | 8.1191 | ug/L | 100 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 1853946 | 79.5384 | ug/L | 99 |
| 61) | Toluene | 10.00 | 92 | 1477644 | 7.9163 | ug/L | 100 |
| 62) | t13Dicloprop | 10.25 | 75 | 556716 | 8.2714 | ug/L | 99 |
| 63) | ethylmethacrylate | 10.41 | 69 | 695434 | 16.6118 | ug/L | 99 |
| 64) | 112Triclotha | 10.50 | 83 | 272159 | 8.0897 | ug/L | 99 |
| 65) | Tetrachlorte | 10.75 | 166 | 686267 | 8.1865 | ug/L | 99 |
| 66) | 13Diclorpropa | 10.72 | 76 | 549857 | 7.9291 | ug/L | 98 |
| 68) | 2Hexanone | 10.85 | 43 | 1445958 | 80.3113 | ug/L | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 429990 | 8.2330 | ug/L | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 312218 | 8.0720 | ug/L | 99 |
| 71) | Chlorobenzen | 11.88 | 112 | 1543065 | 7.9340 | ug/L | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 838735 | 8.2167 | ug/L | 99 |
| 73) | 1112Tetclota | 11.98 | 131 | 530977 | 8.0851 | ug/L | 97 |
| 74) | Ethylbenzene | 12.04 | 91 | 2821414 | 7.9162 | ug/L | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 2211616 | 16.1619 | ug/L | 96 |
| 76) | o-Xylene | 12.75 | 106 | 1065000 | 8.0603 | ug/L | 97 |
| 77) | Styrene | 12.76 | 104 | 1645069 | 8.3611 | ug/L | 100 |
| 78) | Bromoform | 12.99 | 173 | 210822 | 8.5494 | ug/L | 95 |
| 79) | Isopropylben | 13.28 | 105 | 2815203 | 8.0982 | ug/L | 98 |
| 80) | cyclohexanone | 13.38 | 55 | 669084 | 169.3997 | ug/L | 98 |
| 83) | Bromobenzene | 13.70 | 156 | 608473 | 7.6440 | ug/L | 98 |
| 84) | 1122Tetrclta | 13.65 | 83 | 319082 | 7.5672 | ug/L | 99 |
| 85) | 123Triclproa | 13.71 | 75 | 339275 | 7.7332 | ug/L | 98 |
| 86) | 14dichloro2butene | 13.73 | 53 | 22357 | 7.9501 | ug/L | 94 |
| 87) | n-Propylbenz | 13.87 | 91 | 3285484 | 7.7470 | ug/L | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 1844517 | 7.4943 | ug/L | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 2147994 | 7.7360 | ug/L | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 2371646 | 7.8215 | ug/L | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 2036638 | 7.7944 | ug/L | 98 |
| 92) | 124Trimetben | 14.66 | 105 | 2295562 | 7.8375 | ug/L | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 2976817 | 7.9350 | ug/L | 99 |
| 94) | 13Diclorbenz | 15.06 | 146 | 1158292 | 7.8057 | ug/L | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 2577258 | 8.0342 | ug/L | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 1130014 | 7.7496 | ug/L | 99 |
| 97) | 12dichlorobe | 15.72 | 146 | 981528 | 7.6818 | ug/L | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 2329159 | 8.0865 | ug/L | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 51369 | 7.8779 | ug/L | 94 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 831066 | 7.9827 | ug/L | 100 |
| 101) | 124Trichlobe | 17.94 | 180 | 586029 | 8.2236 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW8.D Vial: 12
Acq On : 13 Apr 2025 13:02 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:31:09 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 427807 | 8.1643 | ug/L | 98 |
| 103) Naphthalene | 18.24 | 128 | 784518 | 8.3665 | ug/L | 99 |
| 104) 123Trichlben | 18.55 | 180 | 456128 | 8.3209 | ug/L | 99 |

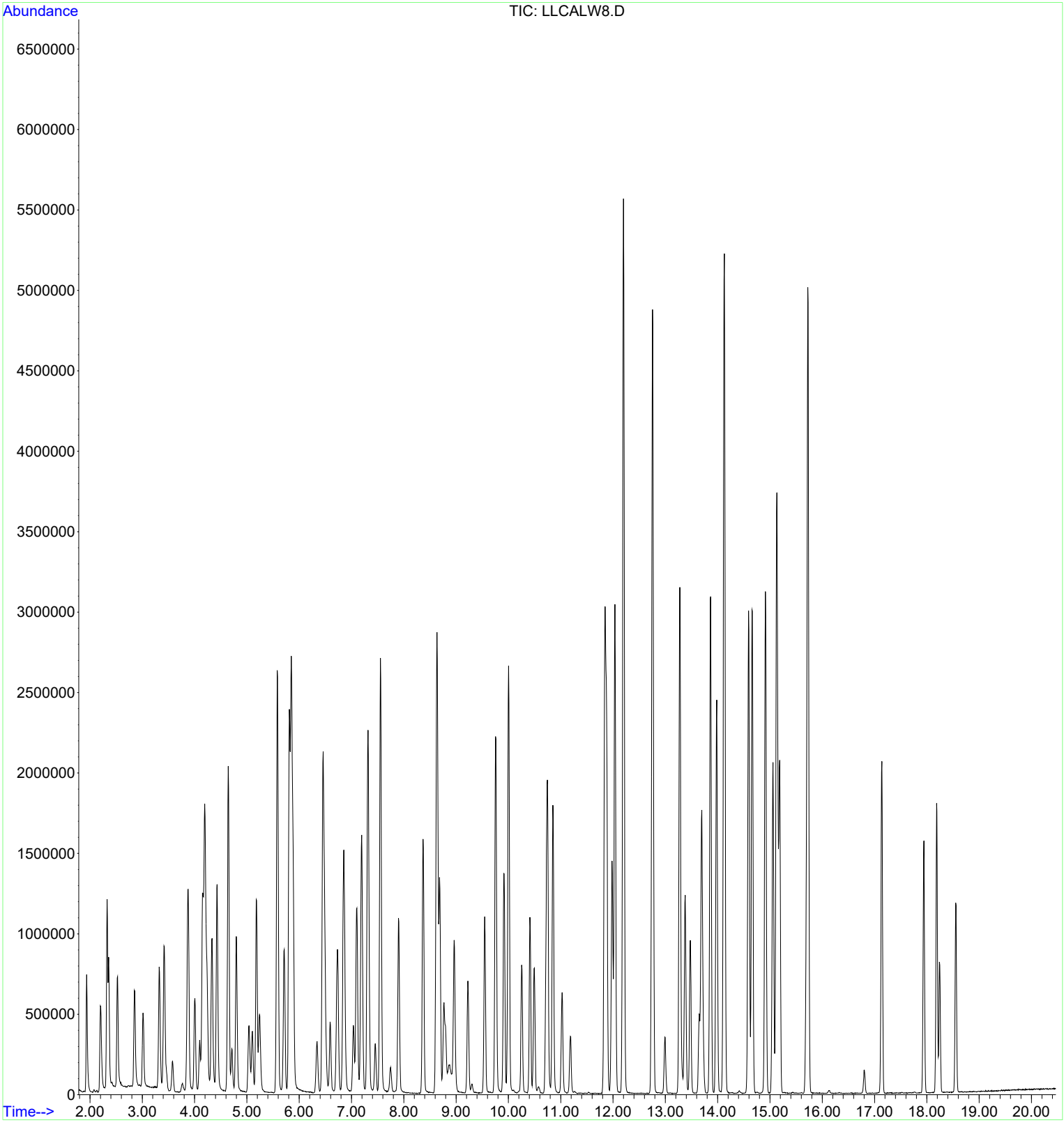
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW8.D Vial: 12
Acq On : 13 Apr 2025 13:02 Operator: RLD-DGS
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:31:09 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW9.D Vial: 13
Acq On : 13 Apr 2025 13:30 Operator: RLD-DGS
Sample : CALIB. PT. 9 Inst : VMS4
Misc : 16.00/160 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:31:44 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1201374 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 901827 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 470535 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 305270 | 4.069 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 102 | % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 52001 | 4.049 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 101 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1210023 | 4.038 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 101 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 412830 | 3.902 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 98 | % | | |

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) Dichlorodi | 1.94 | 85 | 1325740 | 16.0689 | ug/L | 99 |
| 3) Chloromethan | 2.20 | 50 | 1389598 | 13.7531 | ug/L | 100 |
| 4) VinylChlorid | 2.36 | 62 | 1524531 | 14.8519 | ug/L | 100 |
| 5) Bromomethane | 2.86 | 94 | 939642 | 14.3839 | ug/L | 98 |
| 6) Chloroethane | 3.01 | 64 | 901186 | 14.0526 | ug/L | 100 |
| 7) Dichloroflmethane | 3.33 | 67 | 1828162 | 14.2974 | ug/L | 99 |
| 8) Trichlorofma | 3.42 | 101 | 1827170 | 15.8390 | ug/L | 98 |
| 9) Ethylether | 3.88 | 59 | 577297 | 14.4078 | ug/L | 98 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 1221640 | 15.5504 | ug/L | 100 |
| 11) propyleneoxide | 4.10 | 58 | 829822 | 157.3063 | ug/L | 98 |
| 12) Acrolein | 4.01 | 56 | 395664 | 68.3004 | ug/L | 93 |
| 13) 11dichlorthe | 4.15 | 96 | 1049155 | 15.3977 | ug/L | 96 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 2014124 | 32.6325 | ug/L | 100 |
| 15) Acetone | 4.24 | 43 | 1857009 | 143.7561 | ug/L | 99 |
| 16) Iodomethane | 4.33 | 142 | 2624368 | 35.5831 | ug/L | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 4133865 | 30.5509 | ug/L | 100 |
| 18) allylchloride | 4.64 | 41 | 2858123 | 29.2475 | ug/L | 99 |
| 19) methylacetate | 4.71 | 74 | 159289 | 14.5163 | ug/L | 99 |
| 20) Methylchlorid | 4.80 | 84 | 1000417 | 15.9708 | ug/L | 99 |
| 21) tbutylalcohol | 5.03 | 59 | 1343138 | 795.3474 | ug/L | 95 |
| 22) Acrylonitrile | 5.11 | 53 | 614791 | 74.2337 | ug/L | 97 |
| 23) t12dichlorte | 5.19 | 96 | 1075821 | 14.7114 | ug/L | 99 |
| 24) MtBE | 5.24 | 73 | 1271580 | 15.6837 | ug/L | 99 |
| 25) Hexane | 5.58 | 57 | 3005785 | 33.1375 | ug/L | 100 |
| 26) 11dichlorota | 5.71 | 63 | 1944720 | 14.4404 | ug/L | 99 |
| 27) Vinylacetate | 5.81 | 43 | 6497670 | 116.4942 | ug/L | 98 |
| 28) chloroprene | 5.85 | 53 | 3226676 | 30.9783 | ug/L | 98 |
| 29) Diisopether | 5.88 | 45 | 2793242 | 14.7705 | ug/L | 96 |
| 30) ETBE | 6.34 | 59 | 763730 | 18.0637 | ug/L | 99 |
| 31) 22dichloropr | 6.46 | 77 | 1494798 | 15.4192 | ug/L | 100 |
| 32) c12dichlorte | 6.45 | 96 | 1184334 | 14.8465 | ug/L | 97 |
| 33) 2Butanone | 6.48 | 72 | 572621 | 158.1454 | ug/L | 100 |
| 34) propionitrile | 6.51 | 54 | 487297 | 151.4121 | ug/L | 97 |
| 35) Ethylacetate | 6.59 | 88 | 47656 | 73.9578 | ug/L | 94 |
| 36) methacrylonitrile | 6.72 | 67 | 343509 | 30.2173 | ug/L | 98 |
| 37) Bromochlorma | 6.74 | 128 | 418555 | 14.3101 | ug/L | 95 |
| 38) Tetrahydofur | 6.86 | 42 | 1024981 | 141.0111 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW9.D Vial: 13
Acq On : 13 Apr 2025 13:30 Operator: RLD-DGS
Sample : CALIB. PT. 9 Inst : VMS4
Misc : 16.00/160 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:31:44 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) Chloroform | 6.85 | 83 | 1946800 | 14.1868 | ug/L | 99 |
| 40) 111trichlota | 7.10 | 97 | 1851492 | 15.4814 | ug/L | 99 |
| 42) Cyclohexane | 7.19 | 56 | 1826017 | 16.2499 | ug/L | 99 |
| 43) Carbtetraclo | 7.32 | 119 | 1667286 | 15.9817 | ug/L | 99 |
| 44) 11dicloprope | 7.31 | 110 | 569788 | 16.0624 | ug/L | 100 |
| 46) Benzene | 7.56 | 78 | 4305677 | 14.2682 | ug/L | 98 |
| 47) 12dichlorota | 7.55 | 62 | 1031517 | 14.1556 | ug/L | 98 |
| 48) TAME | 7.75 | 73 | 362294 | 19.7078 | ug/L | 96 |
| 49) trichloroete | 8.37 | 95 | 1239043 | 15.2815 | ug/L | 99 |
| 50) methylcyclohexane | 8.64 | 83 | 2101626 | 16.4792 | ug/L | 99 |
| 51) 12dicloropra | 8.62 | 63 | 1086055 | 14.8821 | ug/L | 100 |
| 52) 23Dicl1propene | 8.68 | 75 | 1635463 | 14.6852 | ug/L | 99 |
| 53) Dibromometha | 8.76 | 93 | 442637 | 14.6403 | ug/L | 99 |
| 54) methylmethacrylate | 8.80 | 69 | 323896 | 15.2461 | ug/L | 98 |
| 55) 14dioxane | 8.84 | 88 | 213616 | 814.5986 | ug/L | 96 |
| 56) Bromodiclrma | 8.96 | 83 | 1351014 | 14.8848 | ug/L | 99 |
| 57) 2Nitropropane | 9.23 | 43 | 1179785 | 155.0141 | ug/L | 98 |
| 58) c13dicloproe | 9.55 | 75 | 1463338 | 15.1551 | ug/L | 98 |
| 59) 4Meth2Pentan | 9.75 | 43 | 3478418 | 146.9927 | ug/L | 98 |
| 61) Toluene | 10.00 | 92 | 2787007 | 14.7070 | ug/L | 98 |
| 62) t13Dicloprop | 10.25 | 75 | 1071013 | 15.6738 | ug/L | 99 |
| 63) ethylmethacrylate | 10.41 | 69 | 1349778 | 31.7582 | ug/L | 100 |
| 64) 112Triclotha | 10.50 | 83 | 521185 | 15.2594 | ug/L | 99 |
| 65) Tetrachlorte | 10.75 | 166 | 1320783 | 15.5193 | ug/L | 98 |
| 66) 13Diclorpropa | 10.72 | 76 | 1032447 | 14.6647 | ug/L | 99 |
| 68) 2Hexanone | 10.85 | 43 | 2776691 | 150.5267 | ug/L | 99 |
| 69) Clorodibrmta | 11.03 | 129 | 831671 | 15.5424 | ug/L | 99 |
| 70) 12Dibrometha | 11.18 | 107 | 586691 | 14.8046 | ug/L | 99 |
| 71) Chlorobenzen | 11.88 | 112 | 2907573 | 14.5917 | ug/L | 99 |
| 72) 1Clhexane | 11.85 | 91 | 1600397 | 15.3025 | ug/L | 98 |
| 73) 1112Tetclota | 11.98 | 131 | 1026356 | 15.2536 | ug/L | 99 |
| 74) Ethylbenzene | 12.04 | 91 | 5202784 | 14.2480 | ug/L | 97 |
| 75) m p-Xylene | 12.20 | 106 | 4163391 | 29.6958 | ug/L | 91 |
| 76) o-Xylene | 12.75 | 106 | 2006405 | 14.8212 | ug/L | 96 |
| 77) Styrene | 12.76 | 104 | 3131827 | 15.5361 | ug/L | 99 |
| 78) Bromoform | 12.99 | 173 | 422190 | 16.7106 | ug/L | 97 |
| 79) Isopropylben | 13.28 | 105 | 5240777 | 14.7142 | ug/L | 96 |
| 80) cyclohexanone | 13.38 | 55 | 1282466 | 316.9151 | ug/L | 98 |
| 83) Bromobenzene | 13.69 | 156 | 1159866 | 14.4798 | ug/L | 99 |
| 84) 1122Tetrclta | 13.65 | 83 | 598462 | 14.1041 | ug/L | 98 |
| 85) 123Triclproa | 13.71 | 75 | 651470 | 14.7563 | ug/L | 98 |
| 86) 14dichloro2butene | 13.73 | 53 | 48943 | 16.0001 | ug/L | 95 |
| 87) n-Propylbenz | 13.87 | 91 | 6008856 | 14.0800 | ug/L | 96 |
| 88) 2chlorotolue | 13.98 | 91 | 3501230 | 14.1368 | ug/L | 99 |
| 89) 4chlorotolue | 14.13 | 91 | 4063701 | 14.5440 | ug/L | 99 |
| 90) 135Trimebenz | 14.12 | 105 | 4425712 | 14.5045 | ug/L | 97 |
| 91) tbutylbenzen | 14.60 | 119 | 3825285 | 14.5482 | ug/L | 98 |
| 92) 124Trimetben | 14.66 | 105 | 4282319 | 14.5293 | ug/L | 98 |
| 93) sbutylbenzen | 14.91 | 105 | 5571708 | 14.7591 | ug/L | 98 |
| 94) 13Diclorbenz | 15.06 | 146 | 2208677 | 14.7912 | ug/L | 99 |
| 95) pIsopropylto | 15.13 | 119 | 4828286 | 14.9574 | ug/L | 99 |
| 96) 14dichlorobe | 15.19 | 146 | 2141380 | 14.5937 | ug/L | 99 |
| 97) 12dichlorobe | 15.73 | 146 | 1888568 | 14.6883 | ug/L | 100 |
| 98) nButylbenzen | 15.73 | 91 | 4404090 | 15.1948 | ug/L | 97 |
| 99) 12dibromo3cl | 16.80 | 157 | 99427 | 15.1527 | ug/L | 99 |
| 100) 135Trichlorobenzene | 17.14 | 180 | 1620214 | 15.4656 | ug/L | 99 |
| 101) 124Trichlobe | 17.94 | 180 | 1153259 | 16.0823 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW9.D Vial: 13
Acq On : 13 Apr 2025 13:30 Operator: RLD-DGS
Sample : CALIB. PT. 9 Inst : VMS4
Misc : 16.00/160 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:31:44 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 848981 | 16.1008 | ug/L | 98 |
| 103) | Naphthalene | 18.25 | 128 | 1517332 | 16.0805 | ug/L | 98 |
| 104) | 123Trichlben | 18.56 | 180 | 877361 | 15.9051 | ug/L | 98 |

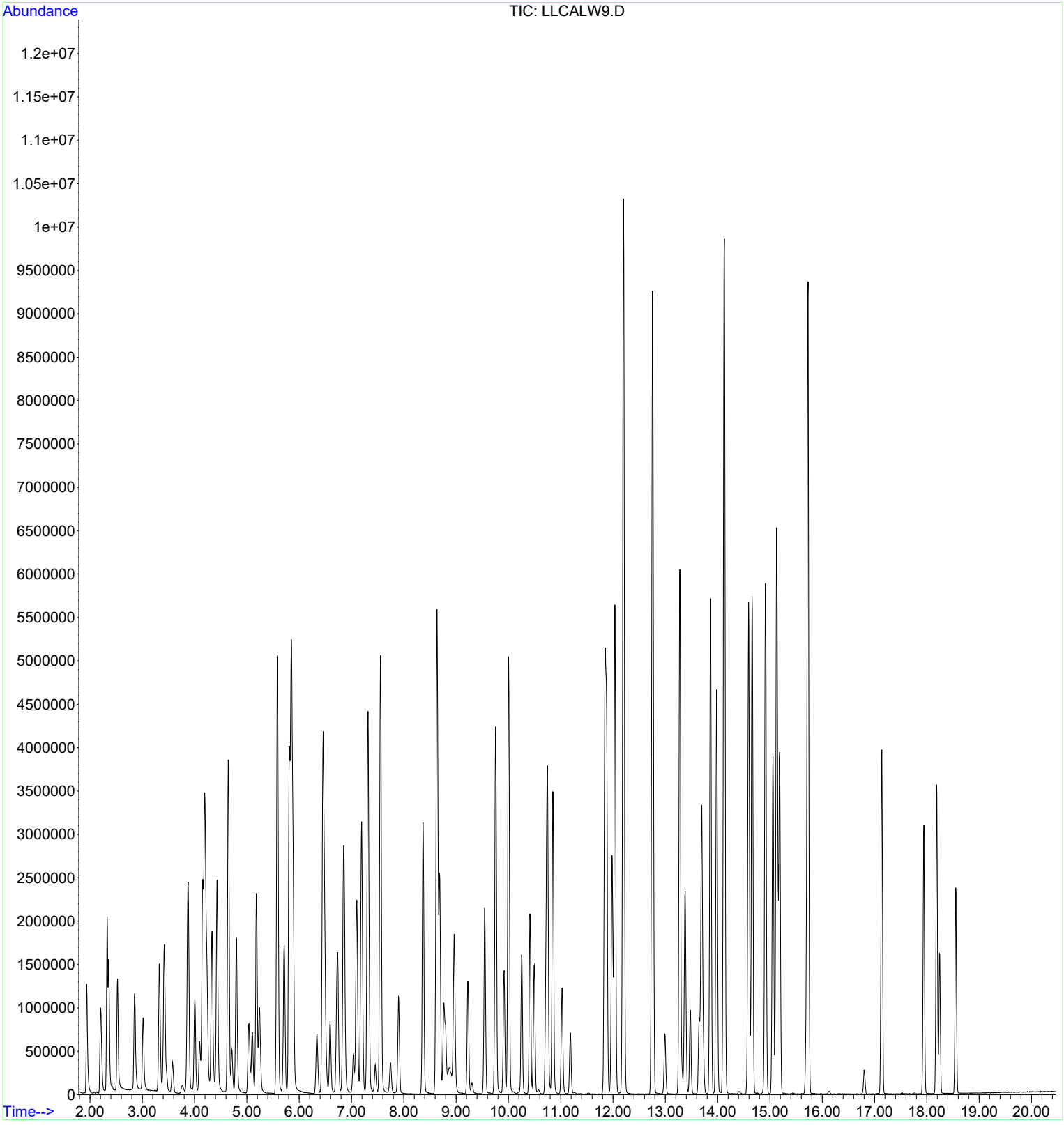
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\LLCALW9.D Vial: 13
Acq On : 13 Apr 2025 13:30 Operator: RLD-DGS
Sample : CALIB. PT. 9 Inst : VMS4
Misc : 16.00/160 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 16 08:31:44 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Apr 15 09:01:33 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1325\ICV1.D  Vial: 15
Acq On : 13 Apr 2025 14:27  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 14 07:37:22 2025

Quant Method : C:\INSTARCH\METHODS\LW041325.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW041325.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 97 | 0.00 |
| 2 | PT | Dichlorodi | 0.2747 | 0.3016 | -9.79 | 101 | 0.00 |
| 3 | PT | Chloromethan | 0.3364 | 0.3303 | 1.81 | 101 | 0.00 |
| 4 | PT | VinylChlorid | 0.3418 | 0.3517 | -2.90 | 99 | 0.00 |
| 5 | PT | Bromomethane | 0.2175 | 0.2425 | -11.49 | 118 | 0.00 |
| 6 | PT | Chloroethane | 0.2135 | 0.2129 | 0.28 | 99 | 0.00 |
| 7 | T | Dichloroflmethane | 0.4257 | 0.3862 | 9.28 | 91 | 0.00 |
| 8 | PT | Trichlorofma | 0.3841 | 0.4083 | -6.30 | 97 | 0.00 |
| 9 | T | Ethylether | 0.1334 | 0.1223 | 8.32 | 94 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2616 | 0.2699 | -3.17 | 97 | 0.00 |
| 11 | T | propyleneoxide | 0.0176 | 0.0175# | 0.57 | 101 | 0.00 |
| 12 | T | Acrolein | 0.0193 | 0.0163# | 15.54 | 91 | 0.00 |
| 13 | PT | 11dichlorthe | 0.2269 | 0.2237 | 1.41 | 97 | 0.00 |
| 14 | PT | Trichlorotfluoroeth | 0.2055 | 0.2159 | -5.06 | 96 | 0.00 |
| 15 | PT | Acetone | 0.0430 | 0.0398# | 7.44 | 100 | 0.00 |
| 16 | T | Iodomethane | 0.2456 | 0.2495 | -1.59 | 90 | 0.00 |
| 17 | PT | Carbon Dislf | 0.4505 | 0.4624 | -2.64 | 100 | 0.00 |
| 18 | T | allylchloride | 0.3254 | 0.3152 | 3.13 | 96 | 0.00 |
| 19 | PT | methylacetate | 0.0365 | 0.0373# | -2.19 | 106 | 0.00 |
| 20 | PT | Methylchlorid | 0.2622 | 0.2275 | 13.23 | 97 | 0.00 |
| 21 | T | tbutylalcohol | 0.0056 | 0.0051# | 8.93 | 97 | 0.00 |
| 22 | T | Acrylonitrile | 0.0276 | 0.0274# | 0.72 | 103 | 0.00 |
| 23 | PT | t12dichlorte | 0.2435 | 0.2434 | 0.04 | 101 | 0.00 |
| 24 | PT | MtBE | 0.2699 | 0.2555 | 5.34 | 96 | 0.00 |
| 25 | T | Hexane | 0.3020 | 0.3073 | -1.75 | 92 | 0.00 |
| 26 | PT | 11dichlorota | 0.4484 | 0.4413 | 1.58 | 98 | 0.00 |
| 27 | T | Vinylacetate | 0.1857 | 0.1748 | 5.87 | 102 | 0.00 |
| 28 | T | chloroprene | 0.3468 | 0.3538 | -2.02 | 96 | 0.00 |
| 29 | T | Diisopether | 0.6296 | 0.6070 | 3.59 | 96 | 0.00 |
| 30 | T | ETBE | 0.1408 | 0.1337 | 5.04 | 97 | 0.00 |
| 31 | T | 22dichloropr | 0.3228 | 0.3139 | 2.76 | 97 | 0.00 |
| 32 | PT | c12dichlorte | 0.2656 | 0.2589 | 2.52 | 100 | 0.00 |
| 33 | PT | 2Butanone | 0.0121 | 0.0117# | 3.31 | 97 | 0.00 |
| 34 | T | propionitrile | 0.0107 | 0.0100# | 6.54 | 96 | 0.00 |
| 35 | T | Ethylacetate | 0.0021 | 0.0020# | 4.76 | 93 | 0.00 |
| 36 | T | methacrylonitrile | 0.0378 | 0.0347 | 8.20 | 95 | 0.00 |
| 37 | T | Bromochlorma | 0.0974 | 0.0962 | 1.23 | 95 | 0.00 |
| 38 | T | Tetrahydofur | 0.0242 | 0.0214# | 11.57 | 93 | 0.00 |
| 39 | PT | Chloroform | 0.4569 | 0.4382 | 4.09 | 98 | 0.00 |
| 40 | PT | 111trichlota | 0.3982 | 0.4059 | -1.93 | 97 | 0.00 |
| 41 | S | SURRDibrflma | 0.2498 | 0.2472 | 1.04 | 94 | 0.00 |
| 42 | PT | Cyclohexane | 0.3741 | 0.3880 | -3.72 | 95 | 0.00 |
| 43 | PT | Carbtetraclo | 0.3474 | 0.3624 | -4.32 | 99 | 0.00 |
| 44 | T | 11dicloprope | 0.1181 | 0.1213 | -2.71 | 97 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0428 | 0.0414 | 3.27 | 95 | 0.00 |
| 46 | PT | Benzene | 1.0047 | 0.9800 | 2.46 | 97 | 0.00 |
| 47 | PT | 12dichlorota | 0.2426 | 0.2257 | 6.97 | 97 | 0.00 |
| 48 | T | TAME | 0.0612 | 0.0578 | 5.56 | 94 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | PT | trichloroete | 0.2700 | 0.2752 | -1.93 | 102 | 0.00 |
| 50 | PT | methylcyclohexane | 0.4246 | 0.4373 | -2.99 | 94 | 0.00 |
| 51 | PT | 12dicloropra | 0.2430 | 0.2373 | 2.35 | 99 | 0.00 |
| 52 | T | 23Dicl1propene | 0.3708 | 0.3572 | 3.67 | 95 | 0.00 |
| 53 | T | Dibromometha | 0.1007 | 0.0952 | 5.46 | 97 | 0.00 |
| 54 | T | methylmethacrylate | 0.0707 | 0.0683 | 3.39 | 95 | 0.00 |
| 55 | T | 14dioxane | 0.0009 | 0.0009# | 0.00 | 96 | 0.00 |
| 56 | PT | Bromodiclrma | 0.3022 | 0.2964 | 1.92 | 98 | 0.00 |
| 57 | T | 2Nitropropane | 0.0253 | 0.0238# | 5.93 | 94 | 0.00 |
| 58 | PT | c13dicloproe | 0.3215 | 0.3133 | 2.55 | 95 | 0.00 |
| 59 | PT | 4Meth2Pentan | 0.0788 | 0.0742# | 5.84 | 95 | 0.00 |
| 60 | S | SURRd8Tolule | 0.9977 | 0.9977 | 0.00 | 97 | 0.00 |
| 61 | PT | Toluene | 0.6310 | 0.6277 | 0.52 | 97 | 0.00 |
| 62 | PT | t13Dicloprop | 0.2275 | 0.2207 | 2.99 | 97 | 0.00 |
| 63 | T | ethylmethacrylate | 0.1415 | 0.1358 | 4.03 | 94 | 0.00 |
| 64 | PT | 112Triclotha | 0.1137 | 0.1123 | 1.23 | 99 | 0.00 |
| 65 | PT | Tetrachlorte | 0.2834 | 0.2865 | -1.09 | 97 | 0.00 |
| 66 | T | 13Diclorpropa | 0.2344 | 0.2231 | 4.82 | 98 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 96 | 0.00 |
| 68 | PT | 2Hexanone | 0.0818 | 0.0797# | 2.57 | 100 | 0.00 |
| 69 | PT | Clorodibrmta | 0.2373 | 0.2296 | 3.24 | 95 | 0.00 |
| 70 | PT | 12Dibrometha | 0.1758 | 0.1655 | 5.86 | 95 | 0.00 |
| 71 | PT | Chlorobenzen | 0.8838 | 0.8892 | -0.61 | 99 | 0.00 |
| 72 | T | 1Clhexane | 0.4639 | 0.4588 | 1.10 | 95 | 0.00 |
| 73 | T | 1112Tetclota | 0.2984 | 0.3004 | -0.67 | 97 | 0.00 |
| 74 | PT | Ethylbenzene | 1.6196 | 1.6271 | -0.46 | 98 | 0.00 |
| 75 | PT | m p-Xylene | 0.6219 | 0.6368 | -2.40 | 100 | 0.00 |
| 76 | PT | o-Xylene | 0.6004 | 0.6054 | -0.83 | 100 | 0.00 |
| 77 | PT | Styrene | 0.8941 | 0.9217 | -3.09 | 99 | 0.00 |
| 78 | PT | Bromoform | 0.1121 | 0.1131 | -0.89 | 95 | 0.00 |
| 79 | PT | Isopropylben | 1.5798 | 1.6214 | -2.63 | 97 | 0.00 |
| 80 | T | cyclohexanone | 0.0179 | 0.0162# | 9.50 | 92 | 0.00 |
| | | | | | | | |
| 81 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 96 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.8993 | 0.8969 | 0.27 | 97 | 0.00 |
| 83 | T | Bromobenzene | 0.6809 | 0.6734 | 1.10 | 96 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.3607 | 0.3405 | 5.60 | 95 | 0.00 |
| 85 | T | 123Triclproa | 0.3753 | 0.3649 | 2.77 | 96 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0223 | 0.0219# | 1.79 | 95 | 0.00 |
| 87 | T | n-Propylbenz | 3.6279 | 3.7388 | -3.06 | 97 | 0.00 |
| 88 | T | 2chlorotolue | 2.1054 | 2.1316 | -1.24 | 100 | 0.00 |
| 89 | T | 4chlorotolue | 2.3752 | 2.4072 | -1.35 | 98 | 0.00 |
| 90 | T | 135Trimebenz | 2.5939 | 2.6638 | -2.69 | 98 | 0.00 |
| 91 | T | tbutylbenzen | 2.2352 | 2.3064 | -3.19 | 97 | 0.00 |
| 92 | T | 124Trimetben | 2.5055 | 2.6075 | -4.07 | 100 | 0.00 |
| 93 | T | sbutylbenzen | 3.2092 | 3.3804 | -5.33 | 97 | 0.00 |
| 94 | PT | 13Diclorbenz | 1.2694 | 1.2851 | -1.24 | 100 | 0.00 |
| 95 | T | pIsopropylto | 2.7441 | 2.9040 | -5.83 | 98 | 0.00 |
| 96 | PT | 14dichlorobe | 1.2474 | 1.2606 | -1.06 | 99 | 0.00 |
| 97 | PT | 12dichlorobe | 1.0930 | 1.0872 | 0.53 | 99 | 0.00 |
| 98 | T | nButylbenzen | 2.4639 | 2.5569 | -3.77 | 97 | 0.00 |
| 99 | PT | 12dibromo3cl | 0.0558 | 0.0526 | 5.73 | 97 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.8906 | 0.8958 | -0.58 | 97 | 0.00 |
| 101 | PT | 124Trichlobe | 0.6096 | 0.6091 | 0.08 | 96 | 0.00 |
| 102 | T | Hexachlorobu | 0.4482 | 0.4502 | -0.45 | 94 | 0.00 |
| 103 | T | Naphthalene | 0.8021 | 0.7968 | 0.66 | 97 | 0.00 |
| 104 | T | 123Trichlben | 0.4689 | 0.4669 | 0.43 | 96 | 0.00 |

(#) = Out of Range SPCC's out = 5 CCC's out = 0

LW041325.M Wed Apr 16 08:15:19 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1325\ICV1.D  Vial: 15
Acq On : 13 Apr 2025 14:27  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 14 07:37:22 2025

Quant Method : C:\INSTARCH\METHODS\LW041325.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW041325.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 4.0000 | 4.0000 | 0.00 | 97 | 0.00 |
| 2 | PT | Dichlorodi | 4.0000 | 4.3921 | -9.80 | 101 | 0.00 |
| 3 | PT | Chloromethan | 4.0000 | 3.9268 | 1.83 | 101 | 0.00 |
| 4 | PT | VinylChlorid | 4.0000 | 4.1163 | -2.91 | 99 | 0.00 |
| 5 | PT | Bromomethane | 4.0000 | 4.4594 | -11.48 | 118 | 0.00 |
| 6 | PT | Chloroethane | 4.0000 | 3.9879 | 0.30 | 99 | 0.00 |
| 7 | T | Dichloroflmethane | 4.0000 | 3.6289 | 9.28 | 91 | 0.00 |
| 8 | PT | Trichlorofma | 4.0000 | 4.2522 | -6.31 | 97 | 0.00 |
| 9 | T | Ethylether | 4.0000 | 3.6675 | 8.31 | 94 | 0.00 |
| 10 | T | dichlorotfluoroethan | 4.0000 | 4.1272 | -3.18 | 97 | 0.00 |
| 11 | T | propyleneoxide | 40.0000 | 39.8384 | 0.40 | 101 | 0.00 |
| 12 | T | Acrolein | 20.0000 | 16.9219 | 15.39 | 91 | 0.00 |
| 13 | PT | 11dichlorthe | 4.0000 | 3.9442 | 1.40 | 97 | 0.00 |
| 14 | PT | Trichlorotfluoroeth | 8.0000 | 8.4057 | -5.07 | 96 | 0.00 |
| 15 | PT | Acetone | 40.0000 | 37.0557 | 7.36 | 100 | 0.00 |
| 16 | T | Iodomethane | 8.0000 | 8.1282 | -1.60 | 90 | 0.00 |
| 17 | PT | Carbon Dislf | 8.0000 | 8.2102 | -2.63 | 100 | 0.00 |
| 18 | T | allylchloride | 8.0000 | 7.7504 | 3.12 | 96 | 0.00 |
| 19 | PT | methylacetate | 4.0000 | 4.0791 | -1.98 | 106 | 0.00 |
| 20 | PT | Methylchlorid | 4.0000 | 3.9052 | 2.37 | 97 | 0.00 |
| 21 | T | tbutylalcohol | 200.0000 | 182.2679 | 8.87 | 97 | 0.00 |
| 22 | T | Acrylonitrile | 20.0000 | 19.8642 | 0.68 | 103 | 0.00 |
| 23 | PT | t12dichlorte | 4.0000 | 3.9987 | 0.03 | 101 | 0.00 |
| 24 | PT | MtBE | 4.0000 | 3.7861 | 5.35 | 96 | 0.00 |
| 25 | T | Hexane | 8.0000 | 8.1392 | -1.74 | 92 | 0.00 |
| 26 | PT | 11dichlorota | 4.0000 | 3.9364 | 1.59 | 98 | 0.00 |
| 27 | T | Vinylacetate | 40.0000 | 37.6428 | 5.89 | 102 | 0.00 |
| 28 | T | chloroprene | 8.0000 | 8.1625 | -2.03 | 96 | 0.00 |
| 29 | T | Diisopether | 4.0000 | 3.8560 | 3.60 | 96 | 0.00 |
| 30 | T | ETBE | 4.0000 | 3.7982 | 5.04 | 97 | 0.00 |
| 31 | T | 22dichloropr | 4.0000 | 3.8902 | 2.74 | 97 | 0.00 |
| 32 | PT | c12dichlorte | 4.0000 | 3.8997 | 2.51 | 100 | 0.00 |
| 33 | PT | 2Butanone | 40.0000 | 38.8911 | 2.77 | 97 | 0.00 |
| 34 | T | propionitrile | 40.0000 | 37.3216 | 6.70 | 96 | 0.00 |
| 35 | T | Ethylacetate | 20.0000 | 18.3896 | 8.05 | 93 | 0.00 |
| 36 | T | methacrylonitrile | 8.0000 | 7.3420 | 8.23 | 95 | 0.00 |
| 37 | T | Bromochlorma | 4.0000 | 3.9503 | 1.24 | 95 | 0.00 |
| 38 | T | Tetrahydofur | 40.0000 | 35.3418 | 11.65 | 93 | 0.00 |
| 39 | PT | Chloroform | 4.0000 | 3.8359 | 4.10 | 98 | 0.00 |
| 40 | PT | 111trichlota | 4.0000 | 4.0774 | -1.93 | 97 | 0.00 |
| 41 | S | SURRDibrflma | 4.0000 | 3.9577 | 1.06 | 94 | 0.00 |
| 42 | PT | Cyclohexane | 4.0000 | 4.1484 | -3.71 | 95 | 0.00 |
| 43 | PT | Carbtetraclo | 4.0000 | 4.1737 | -4.34 | 99 | 0.00 |
| 44 | T | 11dicloprope | 4.0000 | 4.1088 | -2.72 | 97 | 0.00 |
| 45 | S | SURR12DCAd4 | 4.0000 | 3.8756 | 3.11 | 95 | 0.00 |
| 46 | PT | Benzene | 4.0000 | 3.9015 | 2.46 | 97 | 0.00 |
| 47 | PT | 12dichlorota | 4.0000 | 3.7212 | 6.97 | 97 | 0.00 |
| 48 | T | TAME | 4.0000 | 3.7768 | 5.58 | 94 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | PT | trichloroete | 4.0000 | 4.0777 | -1.94 | 102 | 0.00 |
| 50 | PT | methylcyclohexane | 4.0000 | 4.1196 | -2.99 | 94 | 0.00 |
| 51 | PT | 12dicloropra | 4.0000 | 3.9070 | 2.32 | 99 | 0.00 |
| 52 | T | 23Dicl1propene | 4.0000 | 3.8530 | 3.67 | 95 | 0.00 |
| 53 | T | Dibromometha | 4.0000 | 3.7842 | 5.40 | 97 | 0.00 |
| 54 | T | methylmethacrylate | 4.0000 | 3.8633 | 3.42 | 95 | 0.00 |
| 55 | T | 14dioxane | 200.0000 | 195.4669 | 2.27 | 96 | 0.00 |
| 56 | PT | Bromodiclrma | 4.0000 | 3.9230 | 1.92 | 98 | 0.00 |
| 57 | T | 2Nitropropane | 40.0000 | 37.6294 | 5.93 | 94 | 0.00 |
| 58 | PT | c13dicloproe | 4.0000 | 3.8980 | 2.55 | 95 | 0.00 |
| 59 | PT | 4Meth2Pentan | 40.0000 | 37.6566 | 5.86 | 95 | 0.00 |
| 60 | S | SURRd8Tolule | 4.0000 | 3.9999 | 0.00 | 97 | 0.00 |
| 61 | PT | Toluene | 4.0000 | 3.9795 | 0.51 | 97 | 0.00 |
| 62 | PT | t13Dicloprop | 4.0000 | 3.8805 | 2.99 | 97 | 0.00 |
| 63 | T | ethylmethacrylate | 8.0000 | 7.6784 | 4.02 | 94 | 0.00 |
| 64 | PT | 112Triclotha | 4.0000 | 3.9502 | 1.24 | 99 | 0.00 |
| 65 | PT | Tetrachlorte | 4.0000 | 4.0444 | -1.11 | 97 | 0.00 |
| 66 | T | 13Diclorpropa | 4.0000 | 3.8068 | 4.83 | 98 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 4.0000 | 4.0000 | 0.00 | 96 | 0.00 |
| 68 | PT | 2Hexanone | 40.0000 | 38.9815 | 2.55 | 100 | 0.00 |
| 69 | PT | Clorodibrmta | 4.0000 | 3.8700 | 3.25 | 95 | 0.00 |
| 70 | PT | 12Dibrometha | 4.0000 | 3.7660 | 5.85 | 95 | 0.00 |
| 71 | PT | Chlorobenzen | 4.0000 | 4.0243 | -0.61 | 99 | 0.00 |
| 72 | T | 1Clhexane | 4.0000 | 3.9563 | 1.09 | 95 | 0.00 |
| 73 | T | 1112Tetclota | 4.0000 | 4.0265 | -0.66 | 97 | 0.00 |
| 74 | PT | Ethylbenzene | 4.0000 | 4.0183 | -0.46 | 98 | 0.00 |
| 75 | PT | m p-Xylene | 8.0000 | 8.1929 | -2.41 | 100 | 0.00 |
| 76 | PT | o-Xylene | 4.0000 | 4.0330 | -0.83 | 100 | 0.00 |
| 77 | PT | Styrene | 4.0000 | 4.1232 | -3.08 | 99 | 0.00 |
| 78 | PT | Bromoform | 4.0000 | 4.0362 | -0.91 | 95 | 0.00 |
| 79 | PT | Isopropylben | 4.0000 | 4.1054 | -2.64 | 97 | 0.00 |
| 80 | T | cyclohexanone | 80.0000 | 72.0311 | 9.96 | 92 | 0.00 |
| | | | | | | | |
| 81 | I | d4-1,4-DICHLOROBENZENE**IS | 4.0000 | 4.0000 | 0.00 | 96 | 0.00 |
| 82 | S | SURR4BrFBenz | 4.0000 | 3.9892 | 0.27 | 97 | 0.00 |
| 83 | T | Bromobenzene | 4.0000 | 3.9557 | 1.11 | 96 | 0.00 |
| 84 | PT | 1122Tetrclta | 4.0000 | 3.7763 | 5.59 | 95 | 0.00 |
| 85 | T | 123Triclproa | 4.0000 | 3.8887 | 2.78 | 96 | 0.00 |
| 86 | T | 14dichloro2butene | 4.0000 | 3.8056 | 4.86 | 95 | 0.00 |
| 87 | T | n-Propylbenz | 4.0000 | 4.1223 | -3.06 | 97 | 0.00 |
| 88 | T | 2chlorotolue | 4.0000 | 4.0497 | -1.24 | 100 | 0.00 |
| 89 | T | 4chlorotolue | 4.0000 | 4.0538 | -1.34 | 98 | 0.00 |
| 90 | T | 135Trimebenz | 4.0000 | 4.1078 | -2.70 | 98 | 0.00 |
| 91 | T | tbutylbenzen | 4.0000 | 4.1274 | -3.18 | 97 | 0.00 |
| 92 | T | 124Trimetben | 4.0000 | 4.1628 | -4.07 | 100 | 0.00 |
| 93 | T | sbutylbenzen | 4.0000 | 4.2134 | -5.34 | 97 | 0.00 |
| 94 | PT | 13Diclorbenz | 4.0000 | 4.0495 | -1.24 | 100 | 0.00 |
| 95 | T | pIsopropylto | 4.0000 | 4.2331 | -5.83 | 98 | 0.00 |
| 96 | PT | 14dichlorobe | 4.0000 | 4.0425 | -1.06 | 99 | 0.00 |
| 97 | PT | 12dichlorobe | 4.0000 | 3.9787 | 0.53 | 99 | 0.00 |
| 98 | T | nButylbenzen | 4.0000 | 4.1509 | -3.77 | 97 | 0.00 |
| 99 | PT | 12dibromo3cl | 4.0000 | 3.7739 | 5.65 | 97 | 0.00 |
| 100 | T | 135Trichlorobenzene | 4.0000 | 4.0234 | -0.58 | 97 | 0.00 |
| 101 | PT | 124Trichlobe | 4.0000 | 3.9967 | 0.08 | 96 | 0.00 |
| 102 | T | Hexachlorobu | 4.0000 | 4.0173 | -0.43 | 94 | 0.00 |
| 103 | T | Naphthalene | 4.0000 | 3.9733 | 0.67 | 97 | 0.00 |
| 104 | T | 123Trichlben | 4.0000 | 3.9823 | 0.44 | 96 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW041325.M Wed Apr 16 08:15:41 2025

Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICV1.D  Vial: 15
Acq On : 13 Apr 2025 14:27  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:37:22 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:36:51 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1147064 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 848203 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 425200 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 283518 | 3.958 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 47524 | 3.876 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 97 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1144439 | 4.000 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 381356 | 3.989 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 345984 | 4.3921 | ug/L | 98 |
| 3) Chloromethan | 2.20 | 50 | 378823 | 3.9268 | ug/L | 99 |
| 4) VinylChlorid | 2.36 | 62 | 403428 | 4.1163 | ug/L | 100 |
| 5) Bromomethane | 2.86 | 94 | 278142 | 4.4594 | ug/L | 99 |
| 6) Chloroethane | 3.01 | 64 | 244181 | 3.9879 | ug/L | 100 |
| 7) Dichloroflmethane | 3.33 | 67 | 443041 | 3.6289 | ug/L | 98 |
| 8) Trichlorofma | 3.42 | 101 | 468354 | 4.2522 | ug/L | 98 |
| 9) Ethylether | 3.88 | 59 | 140308 | 3.6675 | ug/L | 96 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 309577 | 4.1272 | ug/L | 99 |
| 11) propyleneoxide | 4.10 | 58 | 200655 | 39.8384 | ug/L | 98 |
| 12) Acrolein | 4.01 | 56 | 93597 | 16.9219 | ug/L | 97 |
| 13) 11dichlorthe | 4.15 | 96 | 256600 | 3.9442 | ug/L | 99 |
| 14) Trichlorotfluoroeth | 4.20 | 101 | 495361 | 8.4057 | ug/L | 99 |
| 15) Acetone | 4.24 | 43 | 457038 | 37.0557 | ug/L | 99 |
| 16) Iodomethane | 4.33 | 142 | 572384 | 8.1282 | ug/L | 100 |
| 17) Carbon Dislf | 4.43 | 76 | 1060708 | 8.2102 | ug/L | 99 |
| 18) allylchloride | 4.64 | 41 | 723145 | 7.7504 | ug/L | 100 |
| 19) methylacetate | 4.71 | 74 | 42737 | 4.0791 | ug/L | 98 |
| 20) Methylchlorid | 4.80 | 84 | 260966 | 3.9052 | ug/L | 98 |
| 21) tbutylalcohol | 5.04 | 59 | 293889 | 182.2679 | ug/L | 96 |
| 22) Acrylonitrile | 5.11 | 53 | 157075 | 19.8642 | ug/L | 95 |
| 23) t12dichlorte | 5.19 | 96 | 279197 | 3.9987 | ug/L | 98 |
| 24) MtBE | 5.24 | 73 | 293088 | 3.7861 | ug/L | 97 |
| 25) Hexane | 5.59 | 57 | 704902 | 8.1392 | ug/L | 99 |
| 26) 11dichlorota | 5.72 | 63 | 506152 | 3.9364 | ug/L | 99 |
| 27) Vinylacetate | 5.81 | 43 | 2004677 | 37.6428 | ug/L | 99 |
| 28) chloroprene | 5.85 | 53 | 811766 | 8.1625 | ug/L | 100 |
| 29) Diisopether | 5.88 | 45 | 696246 | 3.8560 | ug/L | 97 |
| 30) ETBE | 6.34 | 59 | 153327 | 3.7982 | ug/L | 98 |
| 31) 22dichloropr | 6.46 | 77 | 360079 | 3.8902 | ug/L | 99 |
| 32) c12dichlorte | 6.45 | 96 | 297026 | 3.8997 | ug/L | 99 |
| 33) 2Butanone | 6.49 | 72 | 134453 | 38.8911 | ug/L | 97 |
| 34) propionitrile | 6.51 | 54 | 114684 | 37.3216 | ug/L | 99 |
| 35) Ethylacetate | 6.59 | 88 | 11314 | 18.3896 | ug/L # | 94 |
| 36) methacrylonitrile | 6.72 | 67 | 79690 | 7.3420 | ug/L | 99 |
| 37) Bromochlorma | 6.74 | 128 | 110320 | 3.9503 | ug/L | 98 |
| 38) Tetrahydofur | 6.87 | 42 | 245279 | 35.3418 | ug/L | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICV1.D  Vial: 15
Acq On : 13 Apr 2025 14:27  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:37:22 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:36:51 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 502590 | 3.8359 | ug/L | 99 |
| 40) | 111trichlota | 7.10 | 97 | 465594 | 4.0774 | ug/L | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 445086 | 4.1484 | ug/L | 99 |
| 43) | Carbtetraclo | 7.32 | 119 | 415736 | 4.1737 | ug/L | 99 |
| 44) | 11dicloprope | 7.31 | 110 | 139164 | 4.1088 | ug/L | 98 |
| 46) | Benzene | 7.56 | 78 | 1124116 | 3.9015 | ug/L | 100 |
| 47) | 12dichlorota | 7.55 | 62 | 258905 | 3.7212 | ug/L | 100 |
| 48) | TAME | 7.75 | 73 | 66291 | 3.7768 | ug/L | 96 |
| 49) | trichloroete | 8.37 | 95 | 315681 | 4.0777 | ug/L | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 501636 | 4.1196 | ug/L | 99 |
| 51) | 12dicloropra | 8.62 | 63 | 272230 | 3.9070 | ug/L | 99 |
| 52) | 23Dicl1propene | 8.69 | 75 | 409701 | 3.8530 | ug/L | 98 |
| 53) | Dibromometha | 8.76 | 93 | 109239 | 3.7842 | ug/L | 99 |
| 54) | methylmethacrylate | 8.80 | 69 | 78363 | 3.8633 | ug/L | 97 |
| 55) | 14dioxane | 8.84 | 88 | 48941 | 195.4669 | ug/L | 93 |
| 56) | Bromodiclrma | 8.96 | 83 | 339972 | 3.9230 | ug/L | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 273444 | 37.6294 | ug/L | 97 |
| 58) | c13dicloproe | 9.55 | 75 | 359368 | 3.8980 | ug/L | 98 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 850818 | 37.6566 | ug/L | 99 |
| 61) | Toluene | 10.00 | 92 | 720030 | 3.9795 | ug/L | 98 |
| 62) | t13Dicloprop | 10.25 | 75 | 253174 | 3.8805 | ug/L | 98 |
| 63) | ethylmethacrylate | 10.41 | 69 | 311594 | 7.6784 | ug/L | 99 |
| 64) | 112Triclotha | 10.50 | 83 | 128819 | 3.9502 | ug/L | 97 |
| 65) | Tetrachlorte | 10.75 | 166 | 328643 | 4.0444 | ug/L | 99 |
| 66) | 13Diclorpropa | 10.72 | 76 | 255898 | 3.8068 | ug/L | 100 |
| 68) | 2Hexanone | 10.85 | 43 | 676316 | 38.9815 | ug/L | 98 |
| 69) | Clorodibrmta | 11.03 | 129 | 194772 | 3.8700 | ug/L | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 140368 | 3.7660 | ug/L | 99 |
| 71) | Chlorobenzen | 11.88 | 112 | 754214 | 4.0243 | ug/L | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 389162 | 3.9563 | ug/L | 99 |
| 73) | 1112Tetclota | 11.99 | 131 | 254819 | 4.0265 | ug/L | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 1380072 | 4.0183 | ug/L | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 1080350 | 8.1929 | ug/L | 99 |
| 76) | o-Xylene | 12.75 | 106 | 513495 | 4.0330 | ug/L | 98 |
| 77) | Styrene | 12.76 | 104 | 781756 | 4.1232 | ug/L | 99 |
| 78) | Bromoform | 12.99 | 173 | 95910 | 4.0362 | ug/L | 97 |
| 79) | Isopropylben | 13.28 | 105 | 1375261 | 4.1054 | ug/L | 100 |
| 80) | cyclohexanone | 13.38 | 55 | 274157 | 72.0311 | ug/L | 99 |
| 83) | Bromobenzene | 13.69 | 156 | 286334 | 3.9557 | ug/L | 97 |
| 84) | 1122Tetrclta | 13.65 | 83 | 144798 | 3.7763 | ug/L | 99 |
| 85) | 123Triclproa | 13.72 | 75 | 155139 | 3.8887 | ug/L | 100 |
| 86) | 14dichloro2butene | 13.74 | 53 | 9304 | 3.8056 | ug/L | 94 |
| 87) | n-Propylbenz | 13.87 | 91 | 1589739 | 4.1223 | ug/L | 100 |
| 88) | 2chlorotolue | 13.98 | 91 | 906359 | 4.0497 | ug/L | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 1023543 | 4.0538 | ug/L | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 1132627 | 4.1078 | ug/L | 99 |
| 91) | tbutylbenzen | 14.60 | 119 | 980690 | 4.1274 | ug/L | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 1108713 | 4.1628 | ug/L | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 1437355 | 4.2134 | ug/L | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 546419 | 4.0495 | ug/L | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 1234796 | 4.2331 | ug/L | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 536018 | 4.0425 | ug/L | 100 |
| 97) | 12dichlorobe | 15.72 | 146 | 462278 | 3.9787 | ug/L | 99 |
| 98) | nButylbenzen | 15.72 | 91 | 1087196 | 4.1509 | ug/L | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 22377 | 3.7739 | ug/L | 97 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 380887 | 4.0234 | ug/L | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 258989 | 3.9967 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICV1.D  Vial: 15
Acq On : 13 Apr 2025 14:27  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:37:22 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:36:51 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 191422 | 4.0173 | ug/L | 99 |
| 103) | Naphthalene | 18.25 | 128 | 338791 | 3.9733 | ug/L | 99 |
| 104) | 123Trichlben | 18.55 | 180 | 198505 | 3.9823 | ug/L | 98 |

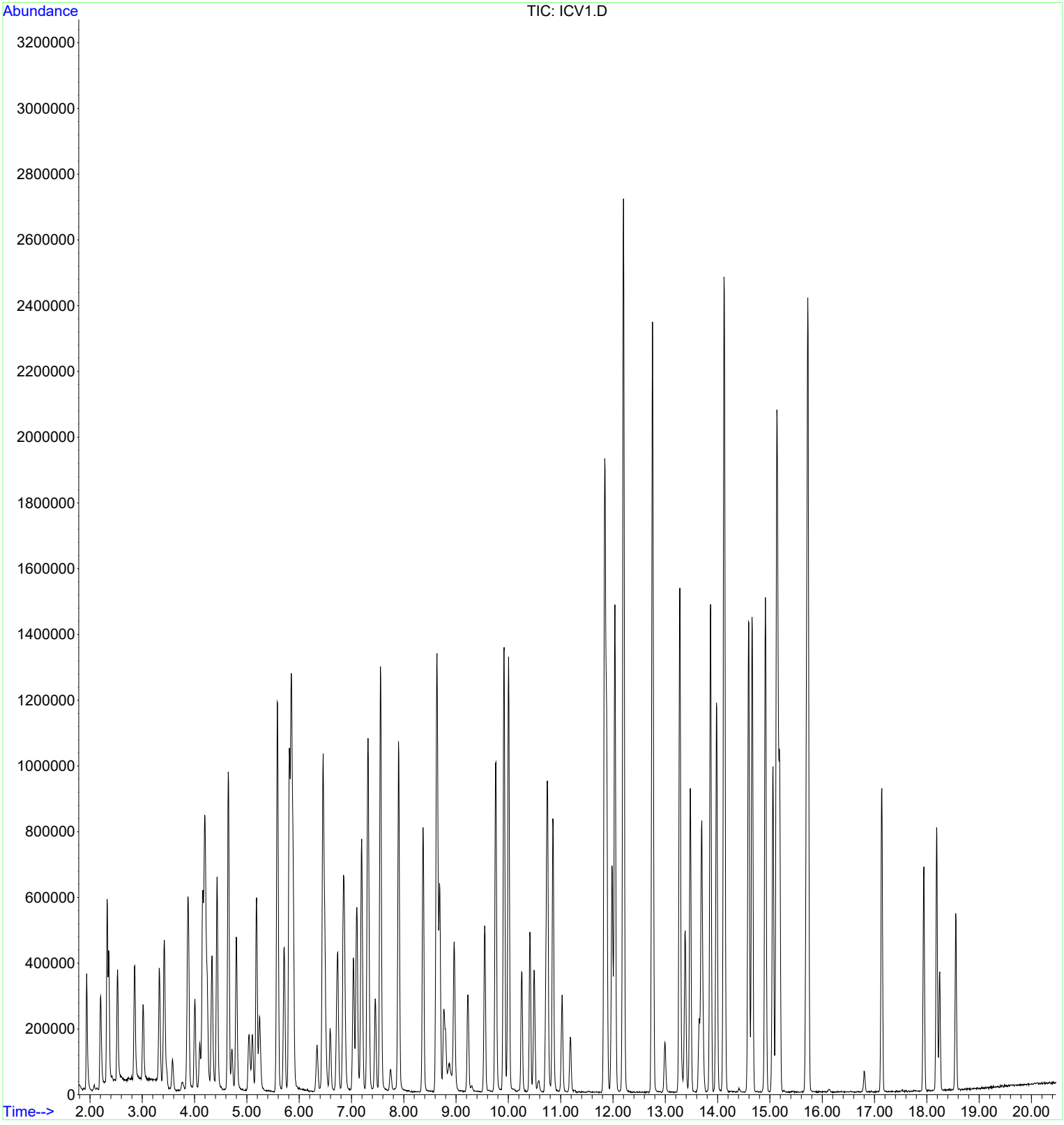
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICV1.D  Vial: 15
Acq On : 13 Apr 2025 14:27  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:37:22 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:36:51 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1325\ICV2.D  Vial: 16
Acq On : 13 Apr 2025 14:55  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 14 07:38:56 2025

Quant Method : C:\INSTARCH\METHODS\LW041325.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW041325.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 98 | 0.00 |
| 2 | PT | Dichlorodi | 0.2747 | 0.2878 | -4.77 | 96 | 0.00 |
| 3 | PT | Chloromethan | 0.3364 | 0.3155 | 6.21 | 97 | 0.00 |
| 4 | PT | VinylChlorid | 0.3418 | 0.3377 | 1.20 | 97 | 0.00 |
| 5 | PT | Bromomethane | 0.2175 | 0.2173 | 0.09 | 105 | 0.00 |
| 6 | PT | Chloroethane | 0.2135 | 0.2011 | 5.81 | 98 | 0.00 |
| 7 | T | Dichloroflmethane | 0.4257 | 0.3720 | 12.61 | 91 | 0.00 |
| 8 | PT | Trichlorofma | 0.3841 | 0.3967 | -3.28 | 96 | 0.00 |
| 9 | T | Ethylether | 0.1334 | 0.1222 | 8.40 | 95 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2616 | 0.2623 | -0.27 | 96 | 0.00 |
| 11 | T | propyleneoxide | 0.0176 | 0.0178# | -1.14 | 95 | 0.00 |
| 12 | T | Acrolein | 0.0193 | 0.0157# | 18.65 | 84 | 0.00 |
| 13 | PT | 11dichlorthe | 0.2269 | 0.2244 | 1.10 | 98 | 0.00 |
| 14 | PT | Trichlorotfluoroeth | 0.2055 | 0.2157 | -4.96 | 97 | 0.00 |
| 15 | PT | Acetone | 0.0430 | 0.0385# | 10.47 | 93 | 0.00 |
| 16 | T | Iodomethane | 0.2456 | 0.2791 | -13.64 | 96 | 0.00 |
| 17 | PT | Carbon Dislf | 0.4505 | 0.4631 | -2.80 | 100 | 0.00 |
| 18 | T | allylchloride | 0.3254 | 0.3092 | 4.98 | 96 | 0.00 |
| 19 | PT | methylacetate | 0.0365 | 0.0369# | -1.10 | 101 | 0.00 |
| 20 | PT | Methylchlorid | 0.2622 | 0.2255 | 14.00 | 97 | 0.00 |
| 21 | T | tbutylalcohol | 0.0056 | 0.0054# | 3.57 | 92 | 0.00 |
| 22 | T | Acrylonitrile | 0.0276 | 0.0258# | 6.52 | 92 | 0.00 |
| 23 | PT | t12dichlorte | 0.2435 | 0.2365 | 2.87 | 99 | 0.00 |
| 24 | PT | MtBE | 0.2699 | 0.2627 | 2.67 | 96 | 0.00 |
| 25 | T | Hexane | 0.3020 | 0.3080 | -1.99 | 91 | 0.00 |
| 26 | PT | 11dichlorota | 0.4484 | 0.4358 | 2.81 | 98 | 0.00 |
| 27 | T | Vinylacetate | 0.1857 | 0.1861 | -0.22 | 114 | 0.00 |
| 28 | T | chloroprene | 0.3468 | 0.3437 | 0.89 | 95 | 0.00 |
| 29 | T | Diisopether | 0.6296 | 0.6141 | 2.46 | 97 | 0.00 |
| 30 | T | ETBE | 0.1408 | 0.1416 | -0.57 | 94 | 0.00 |
| 31 | T | 22dichloropr | 0.3228 | 0.3107 | 3.75 | 95 | 0.00 |
| 32 | PT | c12dichlorte | 0.2656 | 0.2611 | 1.69 | 99 | 0.00 |
| 33 | PT | 2Butanone | 0.0121 | 0.0119# | 1.65 | 93 | 0.00 |
| 34 | T | propionitrile | 0.0107 | 0.0105# | 1.87 | 96 | 0.00 |
| 35 | T | Ethylacetate | 0.0021 | 0.0020# | 4.76 | 90 | 0.00 |
| 36 | T | methacrylonitrile | 0.0378 | 0.0360 | 4.76 | 92 | 0.00 |
| 37 | T | Bromochlorma | 0.0974 | 0.0964 | 1.03 | 98 | 0.00 |
| 38 | T | Tetrahydofur | 0.0242 | 0.0221# | 8.68 | 96 | 0.00 |
| 39 | PT | Chloroform | 0.4569 | 0.4305 | 5.78 | 98 | 0.00 |
| 40 | PT | 111trichlota | 0.3982 | 0.4033 | -1.28 | 97 | 0.00 |
| 41 | S | SURRDibrflma | 0.2498 | 0.2495 | 0.12 | 98 | 0.00 |
| 42 | PT | Cyclohexane | 0.3741 | 0.3865 | -3.31 | 96 | 0.00 |
| 43 | PT | Carbtetraclo | 0.3474 | 0.3555 | -2.33 | 95 | 0.00 |
| 44 | T | 11dicloprope | 0.1181 | 0.1221 | -3.39 | 96 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0428 | 0.0428 | 0.00 | 101 | 0.00 |
| 46 | PT | Benzene | 1.0047 | 0.9658 | 3.87 | 98 | 0.00 |
| 47 | PT | 12dichlorota | 0.2426 | 0.2274 | 6.27 | 97 | 0.00 |
| 48 | T | TAME | 0.0612 | 0.0623 | -1.80 | 89 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | PT | trichloroete | 0.2700 | 0.2769 | -2.56 | 100 | 0.00 |
| 50 | PT | methylcyclohexane | 0.4246 | 0.4254 | -0.19 | 90 | 0.00 |
| 51 | PT | 12dicloropra | 0.2430 | 0.2386 | 1.81 | 97 | 0.00 |
| 52 | T | 23Dicl1propene | 0.3708 | 0.3603 | 2.83 | 98 | 0.00 |
| 53 | T | Dibromometha | 0.1007 | 0.0965 | 4.17 | 96 | 0.00 |
| 54 | T | methylmethacrylate | 0.0707 | 0.0657 | 7.07 | 93 | 0.00 |
| 55 | T | 14dioxane | 0.0009 | 0.0008# | 11.11 | 87 | -0.01 |
| 56 | PT | Bromodiclrma | 0.3022 | 0.2951 | 2.35 | 98 | 0.00 |
| 57 | T | 2Nitropropane | 0.0253 | 0.0249# | 1.58 | 93 | 0.00 |
| 58 | PT | c13dicloproe | 0.3215 | 0.3229 | -0.44 | 97 | 0.00 |
| 59 | PT | 4Meth2Pentan | 0.0788 | 0.0756# | 4.06 | 95 | 0.00 |
| 60 | S | SURRd8Tolule | 0.9977 | 0.9954 | 0.23 | 97 | 0.00 |
| 61 | PT | Toluene | 0.6310 | 0.6203 | 1.70 | 98 | 0.00 |
| 62 | PT | t13Dicloprop | 0.2275 | 0.2313 | -1.67 | 97 | 0.00 |
| 63 | T | ethylmethacrylate | 0.1415 | 0.1398 | 1.20 | 93 | 0.00 |
| 64 | PT | 112Triclotha | 0.1137 | 0.1158 | -1.85 | 99 | 0.00 |
| 65 | PT | Tetrachlorte | 0.2834 | 0.2854 | -0.71 | 97 | 0.00 |
| 66 | T | 13Diclorpropa | 0.2344 | 0.2309 | 1.49 | 98 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 99 | 0.00 |
| 68 | PT | 2Hexanone | 0.0818 | 0.0784# | 4.16 | 94 | 0.00 |
| 69 | PT | Clorodibrmta | 0.2373 | 0.2420 | -1.98 | 98 | 0.00 |
| 70 | PT | 12Dibrometha | 0.1758 | 0.1713 | 2.56 | 95 | 0.00 |
| 71 | PT | Chlorobenzen | 0.8838 | 0.8625 | 2.41 | 97 | 0.00 |
| 72 | T | 1Clhexane | 0.4639 | 0.4453 | 4.01 | 92 | 0.00 |
| 73 | T | 1112Tetclota | 0.2984 | 0.2996 | -0.40 | 98 | 0.00 |
| 74 | PT | Ethylbenzene | 1.6196 | 1.5782 | 2.56 | 97 | 0.00 |
| 75 | PT | m p-Xylene | 0.6219 | 0.6188 | 0.50 | 97 | 0.00 |
| 76 | PT | o-Xylene | 0.6004 | 0.5930 | 1.23 | 97 | 0.00 |
| 77 | PT | Styrene | 0.8941 | 0.9239 | -3.33 | 98 | 0.00 |
| 78 | PT | Bromoform | 0.1121 | 0.1216 | -8.47 | 100 | 0.00 |
| 79 | PT | Isopropylben | 1.5798 | 1.5674 | 0.78 | 97 | 0.00 |
| 80 | T | cyclohexanone | 0.0179 | 0.0162# | 9.50 | 84 | 0.00 |
| | | | | | | | |
| 81 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 95 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.8993 | 0.8991 | 0.02 | 98 | 0.00 |
| 83 | T | Bromobenzene | 0.6809 | 0.6878 | -1.01 | 100 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.3607 | 0.3382 | 6.24 | 94 | 0.00 |
| 85 | T | 123Triclproa | 0.3753 | 0.3665 | 2.34 | 96 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0223 | 0.0259# | -16.14 | 103 | 0.00 |
| 87 | T | n-Propylbenz | 3.6279 | 3.5883 | 1.09 | 97 | 0.00 |
| 88 | T | 2chlorotolue | 2.1054 | 2.0454 | 2.85 | 98 | 0.00 |
| 89 | T | 4chlorotolue | 2.3752 | 2.3556 | 0.83 | 97 | 0.00 |
| 90 | T | 135Trimebenz | 2.5939 | 2.5998 | -0.23 | 97 | 0.00 |
| 91 | T | tbutylbenzen | 2.2352 | 2.2455 | -0.46 | 98 | 0.00 |
| 92 | T | 124Trimetben | 2.5055 | 2.5056 | -0.00 | 97 | 0.00 |
| 93 | T | sbutylbenzen | 3.2092 | 3.2585 | -1.54 | 97 | 0.00 |
| 94 | PT | 13Diclorbenz | 1.2694 | 1.2605 | 0.70 | 96 | 0.00 |
| 95 | T | pIsopropylto | 2.7441 | 2.8034 | -2.16 | 96 | 0.00 |
| 96 | PT | 14dichlorobe | 1.2474 | 1.2426 | 0.38 | 97 | 0.00 |
| 97 | PT | 12dichlorobe | 1.0930 | 1.0853 | 0.70 | 98 | 0.00 |
| 98 | T | nButylbenzen | 2.4639 | 2.5206 | -2.30 | 96 | 0.00 |
| 99 | PT | 12dibromo3cl | 0.0558 | 0.0535 | 4.12 | 92 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.8906 | 0.8769 | 1.54 | 93 | 0.00 |
| 101 | PT | 124Trichlobe | 0.6096 | 0.6265 | -2.77 | 95 | 0.00 |
| 102 | T | Hexachlorobu | 0.4482 | 0.4473 | 0.20 | 93 | 0.00 |
| 103 | T | Naphthalene | 0.8021 | 0.8091 | -0.87 | 91 | 0.00 |
| 104 | T | 123Trichlben | 0.4689 | 0.4761 | -1.54 | 92 | 0.00 |

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(#) = Out of Range SPCC's out = 5 CCC's out = 0

LW041325.M Wed Apr 16 08:17:22 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1325\ICV2.D  Vial: 16
Acq On : 13 Apr 2025 14:55  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 14 07:38:56 2025

Quant Method : C:\INSTARCH\METHODS\LW041325.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW041325.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 4.0000 | 4.0000 | 0.00 | 98 | 0.00 |
| 2 | PT | Dichlorodi | 8.0000 | 8.3824 | -4.78 | 96 | 0.00 |
| 3 | PT | Chloromethan | 8.0000 | 7.5016 | 6.23 | 97 | 0.00 |
| 4 | PT | VinylChlorid | 8.0000 | 7.9038 | 1.20 | 97 | 0.00 |
| 5 | PT | Bromomethane | 8.0000 | 7.9940 | 0.08 | 105 | 0.00 |
| 6 | PT | Chloroethane | 8.0000 | 7.5339 | 5.83 | 98 | 0.00 |
| 7 | T | Dichloroflmethane | 8.0000 | 6.9911 | 12.61 | 91 | 0.00 |
| 8 | PT | Trichlorofma | 8.0000 | 8.2630 | -3.29 | 96 | 0.00 |
| 9 | T | Ethylether | 8.0000 | 7.3269 | 8.41 | 95 | 0.00 |
| 10 | T | dichlorotfluoroethan | 8.0000 | 8.0218 | -0.27 | 96 | 0.00 |
| 11 | T | propyleneoxide | 80.0000 | 81.0851 | -1.36 | 95 | 0.00 |
| 12 | T | Acrolein | 40.0000 | 32.6217 | 18.45 | 84 | 0.00 |
| 13 | PT | 11dichlorthe | 8.0000 | 7.9114 | 1.11 | 98 | 0.00 |
| 14 | PT | Trichlorotfluoroeth | 16.0000 | 16.7966 | -4.98 | 97 | 0.00 |
| 15 | PT | Acetone | 80.0000 | 71.5720 | 10.53 | 93 | 0.00 |
| 16 | T | Iodomethane | 16.0000 | 18.1871 | -13.67 | 96 | 0.00 |
| 17 | PT | Carbon Dislf | 16.0000 | 16.4467 | -2.79 | 100 | 0.00 |
| 18 | T | allylchloride | 16.0000 | 15.2048 | 4.97 | 96 | 0.00 |
| 19 | PT | methylacetate | 8.0000 | 8.0808 | -1.01 | 101 | 0.00 |
| 20 | PT | Methylchlorid | 8.0000 | 8.0529 | -0.66 | 97 | 0.00 |
| 21 | T | tbutylalcohol | 400.0000 | 381.8356 | 4.54 | 92 | 0.00 |
| 22 | T | Acrylonitrile | 40.0000 | 37.4449 | 6.39 | 92 | 0.00 |
| 23 | PT | t12dichlorte | 8.0000 | 7.7703 | 2.87 | 99 | 0.00 |
| 24 | PT | MtBE | 8.0000 | 7.7866 | 2.67 | 96 | 0.00 |
| 25 | T | Hexane | 16.0000 | 16.3155 | -1.97 | 91 | 0.00 |
| 26 | PT | 11dichlorota | 8.0000 | 7.7750 | 2.81 | 98 | 0.00 |
| 27 | T | Vinylacetate | 80.0000 | 80.1667 | -0.21 | 114 | 0.00 |
| 28 | T | chloroprene | 16.0000 | 15.8561 | 0.90 | 95 | 0.00 |
| 29 | T | Diisopether | 8.0000 | 7.8029 | 2.46 | 97 | 0.00 |
| 30 | T | ETBE | 8.0000 | 8.0468 | -0.58 | 94 | 0.00 |
| 31 | T | 22dichloropr | 8.0000 | 7.7017 | 3.73 | 95 | 0.00 |
| 32 | PT | c12dichlorte | 8.0000 | 7.8648 | 1.69 | 99 | 0.00 |
| 33 | PT | 2Butanone | 80.0000 | 78.7662 | 1.54 | 93 | 0.00 |
| 34 | T | propionitrile | 80.0000 | 78.1450 | 2.32 | 96 | 0.00 |
| 35 | T | Ethylacetate | 40.0000 | 36.5037 | 8.74 | 90 | 0.00 |
| 36 | T | methacrylonitrile | 16.0000 | 15.2243 | 4.85 | 92 | 0.00 |
| 37 | T | Bromochlorma | 8.0000 | 7.9215 | 0.98 | 98 | 0.00 |
| 38 | T | Tetrahydofur | 80.0000 | 73.0560 | 8.68 | 96 | 0.00 |
| 39 | PT | Chloroform | 8.0000 | 7.5377 | 5.78 | 98 | 0.00 |
| 40 | PT | 111trichlota | 8.0000 | 8.1022 | -1.28 | 97 | 0.00 |
| 41 | S | SURRDibrflma | 4.0000 | 3.9954 | 0.11 | 98 | 0.00 |
| 42 | PT | Cyclohexane | 8.0000 | 8.2645 | -3.31 | 96 | 0.00 |
| 43 | PT | Carbtetraclo | 8.0000 | 8.1884 | -2.35 | 95 | 0.00 |
| 44 | T | 11dicloprope | 8.0000 | 8.2730 | -3.41 | 96 | 0.00 |
| 45 | S | SURR12DCAd4 | 4.0000 | 4.0023 | -0.06 | 101 | 0.00 |
| 46 | PT | Benzene | 8.0000 | 7.6896 | 3.88 | 98 | 0.00 |
| 47 | PT | 12dichlorota | 8.0000 | 7.4982 | 6.27 | 97 | 0.00 |
| 48 | T | TAME | 8.0000 | 8.1456 | -1.82 | 89 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | PT | trichloroete | 8.0000 | 8.2042 | -2.55 | 100 | 0.00 |
| 50 | PT | methylcyclohexane | 8.0000 | 8.0138 | -0.17 | 90 | 0.00 |
| 51 | PT | 12dicloropra | 8.0000 | 7.8562 | 1.80 | 97 | 0.00 |
| 52 | T | 23Dicl1propene | 8.0000 | 7.7734 | 2.83 | 98 | 0.00 |
| 53 | T | Dibromometha | 8.0000 | 7.6712 | 4.11 | 96 | 0.00 |
| 54 | T | methylmethacrylate | 8.0000 | 7.4328 | 7.09 | 93 | 0.00 |
| 55 | T | 14dioxane | 400.0000 | 388.5222 | 2.87 | 87 | -0.01 |
| 56 | PT | Bromodiclrma | 8.0000 | 7.8125 | 2.34 | 98 | 0.00 |
| 57 | T | 2Nitropropane | 80.0000 | 78.5120 | 1.86 | 93 | 0.00 |
| 58 | PT | c13dicloproe | 8.0000 | 8.0339 | -0.42 | 97 | 0.00 |
| 59 | PT | 4Meth2Pentan | 80.0000 | 76.8009 | 4.00 | 95 | 0.00 |
| 60 | S | SURRd8Tolule | 4.0000 | 3.9905 | 0.24 | 97 | 0.00 |
| 61 | PT | Toluene | 8.0000 | 7.8653 | 1.68 | 98 | 0.00 |
| 62 | PT | t13Dicloprop | 8.0000 | 8.1337 | -1.67 | 97 | 0.00 |
| 63 | T | ethylmethacrylate | 16.0000 | 15.8013 | 1.24 | 93 | 0.00 |
| 64 | PT | 112Triclotha | 8.0000 | 8.1493 | -1.87 | 99 | 0.00 |
| 65 | PT | Tetrachlorte | 8.0000 | 8.0576 | -0.72 | 97 | 0.00 |
| 66 | T | 13Diclorpropa | 8.0000 | 7.8813 | 1.48 | 98 | 0.00 |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 4.0000 | 4.0000 | 0.00 | 99 | 0.00 |
| 68 | PT | 2Hexanone | 80.0000 | 76.6099 | 4.24 | 94 | 0.00 |
| 69 | PT | Clorodibrmta | 8.0000 | 8.1579 | -1.97 | 98 | 0.00 |
| 70 | PT | 12Dibrometha | 8.0000 | 7.7975 | 2.53 | 95 | 0.00 |
| 71 | PT | Chlorobenzen | 8.0000 | 7.8073 | 2.41 | 97 | 0.00 |
| 72 | T | 1Clhexane | 8.0000 | 7.6790 | 4.01 | 92 | 0.00 |
| 73 | T | 1112Tetclota | 8.0000 | 8.0311 | -0.39 | 98 | 0.00 |
| 74 | PT | Ethylbenzene | 8.0000 | 7.7952 | 2.56 | 97 | 0.00 |
| 75 | PT | m p-Xylene | 16.0000 | 15.9204 | 0.50 | 97 | 0.00 |
| 76 | PT | o-Xylene | 8.0000 | 7.9005 | 1.24 | 97 | 0.00 |
| 77 | PT | Styrene | 8.0000 | 8.2669 | -3.34 | 98 | 0.00 |
| 78 | PT | Bromoform | 8.0000 | 8.6789 | -8.49 | 100 | 0.00 |
| 79 | PT | Isopropylben | 8.0000 | 7.9375 | 0.78 | 97 | 0.00 |
| 80 | T | cyclohexanone | 160.0000 | 144.4740 | 9.70 | 84 | 0.00 |
| 81 | I | d4-1,4-DICHLOROBENZENE**IS | 4.0000 | 4.0000 | 0.00 | 95 | 0.00 |
| 82 | S | SURR4BrFBenz | 4.0000 | 3.9990 | 0.02 | 98 | 0.00 |
| 83 | T | Bromobenzene | 8.0000 | 8.0806 | -1.01 | 100 | 0.00 |
| 84 | PT | 1122Tetrclta | 8.0000 | 7.4996 | 6.25 | 94 | 0.00 |
| 85 | T | 123Triclproa | 8.0000 | 7.8118 | 2.35 | 96 | 0.00 |
| 86 | T | 14dichloro2butene | 8.0000 | 8.5645 | -7.06 | 103 | 0.00 |
| 87 | T | n-Propylbenz | 8.0000 | 7.9127 | 1.09 | 97 | 0.00 |
| 88 | T | 2chlorotolue | 8.0000 | 7.7718 | 2.85 | 98 | 0.00 |
| 89 | T | 4chlorotolue | 8.0000 | 7.9338 | 0.83 | 97 | 0.00 |
| 90 | T | 135Trimebenz | 8.0000 | 8.0183 | -0.23 | 97 | 0.00 |
| 91 | T | tbutylbenzen | 8.0000 | 8.0367 | -0.46 | 98 | 0.00 |
| 92 | T | 124Trimetben | 8.0000 | 8.0001 | -0.00 | 97 | 0.00 |
| 93 | T | sbutylbenzen | 8.0000 | 8.1228 | -1.53 | 97 | 0.00 |
| 94 | PT | 13Diclorbenz | 8.0000 | 7.9438 | 0.70 | 96 | 0.00 |
| 95 | T | pIsopropylto | 8.0000 | 8.1728 | -2.16 | 96 | 0.00 |
| 96 | PT | 14dichlorobe | 8.0000 | 7.9694 | 0.38 | 97 | 0.00 |
| 97 | PT | 12dichlorobe | 8.0000 | 7.9435 | 0.71 | 98 | 0.00 |
| 98 | T | nButylbenzen | 8.0000 | 8.1842 | -2.30 | 96 | 0.00 |
| 99 | PT | 12dibromo3cl | 8.0000 | 7.6743 | 4.07 | 92 | 0.00 |
| 100 | T | 135Trichlorobenzene | 8.0000 | 7.8771 | 1.54 | 93 | 0.00 |
| 101 | PT | 124Trichlobe | 8.0000 | 8.2221 | -2.78 | 95 | 0.00 |
| 102 | T | Hexachlorobu | 8.0000 | 7.9830 | 0.21 | 93 | 0.00 |
| 103 | T | Naphthalene | 8.0000 | 8.0693 | -0.87 | 91 | 0.00 |
| 104 | T | 123Trichlben | 8.0000 | 8.1223 | -1.53 | 92 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW041325.M Wed Apr 16 08:16:59 2025

Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICV2.D  Vial: 16
Acq On : 13 Apr 2025 14:55  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:38:56 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1162108 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 868886 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 442772 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 289975 | 3.995 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 49721 | 4.002 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1156739 | 3.991 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 398091 | 3.999 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 668977 | 8.3824 | ug/L | 100 |
| 3) Chloromethan | 2.20 | 50 | 733181 | 7.5016 | ug/L | 98 |
| 4) VinylChlorid | 2.36 | 62 | 784801 | 7.9038 | ug/L | 98 |
| 5) Bromomethane | 2.86 | 94 | 505149 | 7.9940 | ug/L | 100 |
| 6) Chloroethane | 3.02 | 64 | 467354 | 7.5339 | ug/L | 99 |
| 7) Dichloroflmethane | 3.33 | 67 | 864714 | 6.9911 | ug/L | 99 |
| 8) Trichlorofma | 3.42 | 101 | 922057 | 8.2630 | ug/L | 100 |
| 9) Ethylether | 3.88 | 59 | 283983 | 7.3269 | ug/L | 99 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 609597 | 8.0218 | ug/L | 99 |
| 11) propyleneoxide | 4.10 | 58 | 413760 | 81.0851 | ug/L | 99 |
| 12) Acrolein | 4.00 | 56 | 182801 | 32.6217 | ug/L | 95 |
| 13) 11dichlorthe | 4.15 | 96 | 521442 | 7.9114 | ug/L | 98 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 1002827 | 16.7966 | ug/L | 99 |
| 15) Acetone | 4.24 | 43 | 894332 | 71.5720 | ug/L | 99 |
| 16) Iodomethane | 4.33 | 142 | 1297514 | 18.1871 | ug/L | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 2152681 | 16.4467 | ug/L | 100 |
| 18) allylchloride | 4.64 | 41 | 1437281 | 15.2048 | ug/L | 99 |
| 19) methylacetate | 4.72 | 74 | 85773 | 8.0808 | ug/L | 100 |
| 20) Methylchlorid | 4.80 | 84 | 524195 | 8.0529 | ug/L | 99 |
| 21) tbutylalcohol | 5.04 | 59 | 623747 | 381.8356 | ug/L | 96 |
| 22) Acrylonitrile | 5.11 | 53 | 299977 | 37.4449 | ug/L | 99 |
| 23) t12dichlorte | 5.19 | 96 | 549660 | 7.7703 | ug/L | 99 |
| 24) MtBE | 5.25 | 73 | 610677 | 7.7866 | ug/L | 99 |
| 25) Hexane | 5.59 | 57 | 1431554 | 16.3155 | ug/L | 99 |
| 26) 11dichlorota | 5.72 | 63 | 1012855 | 7.7750 | ug/L | 99 |
| 27) Vinylacetate | 5.81 | 43 | 4325293 | 80.1667 | ug/L | 100 |
| 28) chloroprene | 5.85 | 53 | 1597584 | 15.8561 | ug/L | 98 |
| 29) Diisopether | 5.88 | 45 | 1427367 | 7.8029 | ug/L | 98 |
| 30) ETBE | 6.34 | 59 | 329098 | 8.0468 | ug/L | 99 |
| 31) 22dichloropr | 6.46 | 77 | 722227 | 7.7017 | ug/L | 100 |
| 32) c12dichlorte | 6.45 | 96 | 606883 | 7.8648 | ug/L | 97 |
| 33) 2Butanone | 6.49 | 72 | 275879 | 78.7662 | ug/L | 99 |
| 34) propionitrile | 6.51 | 54 | 243278 | 78.1450 | ug/L | 98 |
| 35) Ethylacetate | 6.59 | 88 | 22753 | 36.5037 | ug/L | 96 |
| 36) methacrylonitrile | 6.72 | 67 | 167413 | 15.2243 | ug/L | 97 |
| 37) Bromochlorma | 6.74 | 128 | 224123 | 7.9215 | ug/L | 99 |
| 38) Tetrahydofur | 6.86 | 42 | 513673 | 73.0560 | ug/L | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICV2.D  Vial: 16
Acq On : 13 Apr 2025 14:55  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:38:56 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 1000557 | 7.5377 | ug/L | 98 |
| 40) | 111trichlota | 7.10 | 97 | 937312 | 8.1022 | ug/L | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 898334 | 8.2645 | ug/L | 99 |
| 43) | Carbtetraclo | 7.32 | 119 | 826326 | 8.1884 | ug/L | 100 |
| 44) | 11dicloprope | 7.31 | 110 | 283881 | 8.2730 | ug/L | 99 |
| 46) | Benzene | 7.56 | 78 | 2244619 | 7.6896 | ug/L | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 528534 | 7.4982 | ug/L | 100 |
| 48) | TAME | 7.75 | 73 | 144849 | 8.1456 | ug/L | 98 |
| 49) | trichloroete | 8.37 | 95 | 643461 | 8.2042 | ug/L | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 988612 | 8.0138 | ug/L | 99 |
| 51) | 12dicloropra | 8.62 | 63 | 554581 | 7.8562 | ug/L | 100 |
| 52) | 23Dicl1propene | 8.68 | 75 | 837415 | 7.7734 | ug/L | 99 |
| 53) | Dibromometha | 8.76 | 93 | 224352 | 7.6712 | ug/L | 98 |
| 54) | methylmethacrylate | 8.80 | 69 | 152746 | 7.4328 | ug/L | 95 |
| 55) | 14dioxane | 8.84 | 88 | 98554 | 388.5222 | ug/L | 96 |
| 56) | Bromodiclrma | 8.96 | 83 | 685925 | 7.8125 | ug/L | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 578011 | 78.5120 | ug/L | 98 |
| 58) | c13dicloproe | 9.55 | 75 | 750377 | 8.0339 | ug/L | 100 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 1758007 | 76.8009 | ug/L | 99 |
| 61) | Toluene | 10.00 | 92 | 1441786 | 7.8653 | ug/L | 100 |
| 62) | t13Dicloprop | 10.25 | 75 | 537619 | 8.1337 | ug/L | 98 |
| 63) | ethylmethacrylate | 10.41 | 69 | 649632 | 15.8013 | ug/L | 99 |
| 64) | 112Triclotha | 10.49 | 83 | 269243 | 8.1493 | ug/L | 98 |
| 65) | Tetrachlorte | 10.75 | 166 | 663336 | 8.0576 | ug/L | 99 |
| 66) | 13Diclorpropa | 10.72 | 76 | 536733 | 7.8813 | ug/L | 98 |
| 68) | 2Hexanone | 10.85 | 43 | 1361565 | 76.6099 | ug/L | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 420584 | 8.1579 | ug/L | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 297719 | 7.7975 | ug/L | 99 |
| 71) | Chlorobenzen | 11.88 | 112 | 1498871 | 7.8073 | ug/L | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 773766 | 7.6790 | ug/L | 99 |
| 73) | 1112Tetclota | 11.98 | 131 | 520644 | 8.0311 | ug/L | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 2742528 | 7.7952 | ug/L | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 2150537 | 15.9204 | ug/L | 97 |
| 76) | o-Xylene | 12.75 | 106 | 1030455 | 7.9005 | ug/L | 98 |
| 77) | Styrene | 12.76 | 104 | 1605601 | 8.2669 | ug/L | 100 |
| 78) | Bromoform | 12.99 | 173 | 211260 | 8.6789 | ug/L | 98 |
| 79) | Isopropylben | 13.28 | 105 | 2723823 | 7.9375 | ug/L | 98 |
| 80) | cyclohexanone | 13.38 | 55 | 563290 | 144.4740 | ug/L | 99 |
| 83) | Bromobenzene | 13.69 | 156 | 609084 | 8.0806 | ug/L | 99 |
| 84) | 1122Tetrclta | 13.65 | 83 | 299447 | 7.4996 | ug/L | 99 |
| 85) | 123Triclproa | 13.71 | 75 | 324531 | 7.8118 | ug/L | 98 |
| 86) | 14dichloro2butene | 13.73 | 53 | 22949 | 8.5645 | ug/L | 95 |
| 87) | n-Propylbenz | 13.86 | 91 | 3177613 | 7.9127 | ug/L | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 1811271 | 7.7718 | ug/L | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 2085961 | 7.9338 | ug/L | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 2302241 | 8.0183 | ug/L | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 1988478 | 8.0367 | ug/L | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 2218784 | 8.0001 | ug/L | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 2885513 | 8.1228 | ug/L | 99 |
| 94) | 13Diclorbenz | 15.06 | 146 | 1116205 | 7.9438 | ug/L | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 2482524 | 8.1728 | ug/L | 100 |
| 96) | 14dichlorobe | 15.18 | 146 | 1100373 | 7.9694 | ug/L | 100 |
| 97) | 12dichlorobe | 15.73 | 146 | 961086 | 7.9435 | ug/L | 100 |
| 98) | nButylbenzen | 15.73 | 91 | 2232145 | 8.1842 | ug/L | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 47385 | 7.6743 | ug/L | 99 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 776539 | 7.8771 | ug/L | 98 |
| 101) | 124Trichlobe | 17.94 | 180 | 554818 | 8.2221 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICV2.D  Vial: 16
Acq On : 13 Apr 2025 14:55  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:38:56 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 396099 | 7.9830 | ug/L | 97 |
| 103) | Naphthalene | 18.24 | 128 | 716479 | 8.0693 | ug/L | 98 |
| 104) | 123Trichlben | 18.55 | 180 | 421607 | 8.1223 | ug/L | 98 |

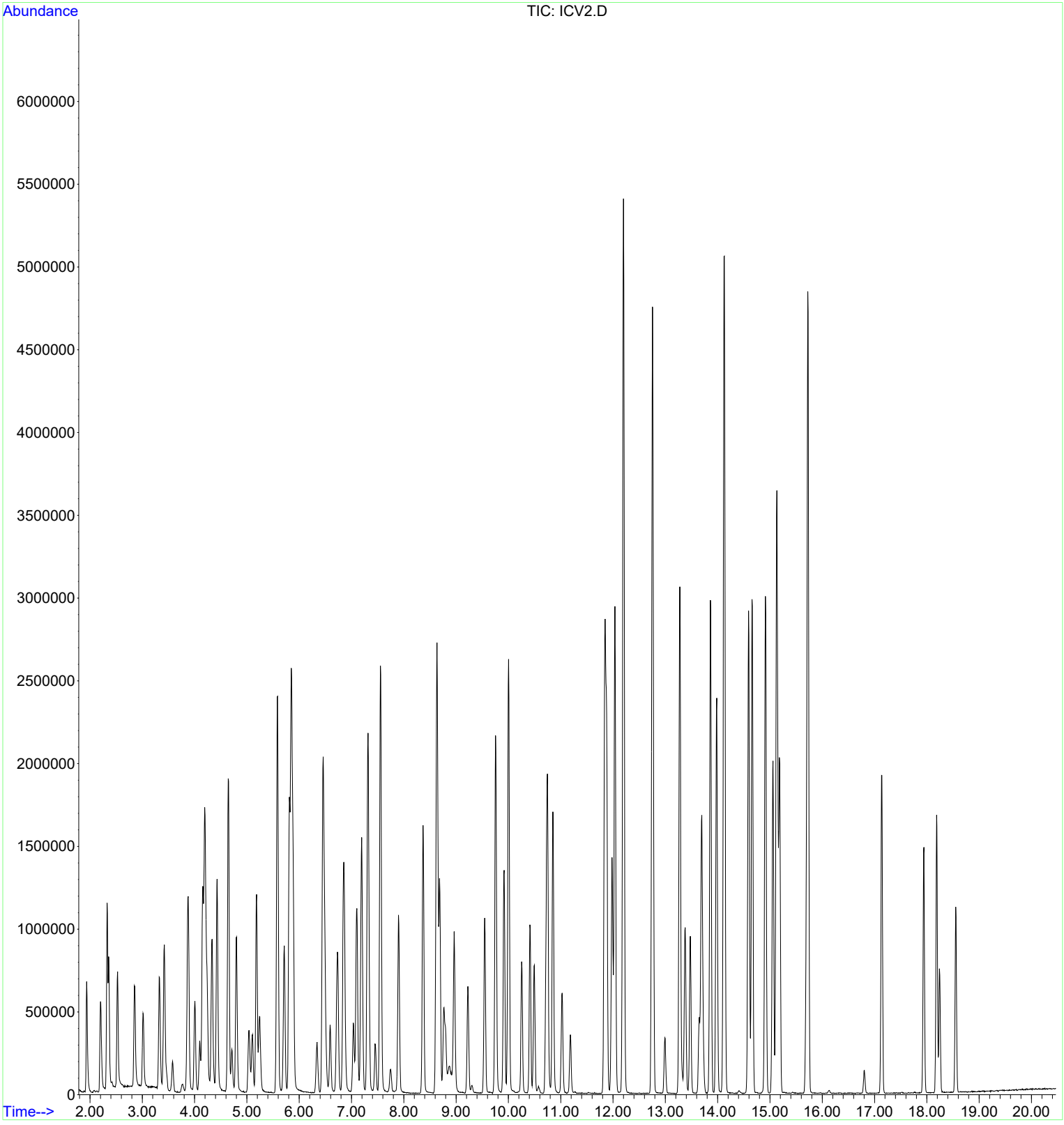
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICV2.D  Vial: 16
Acq On : 13 Apr 2025 14:55  Operator: RLD-DGS
Sample : INITIAL CALIB. VERIF.  Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:38:56 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICB1.D  Vial: 21
Acq On : 13 Apr 2025 17:16  Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK  Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:40:00 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1146417 | 4.00 ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 851805 | 4.00 ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 417965 | 4.00 ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 283248 | 3.956 ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 46165 | 3.767 ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 94 % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1143434 | 3.999 ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 381663 | 4.062 ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 102 % | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | |
| 3) Chloromethan | 2.20 | 50 | 5817 | 0.0603 ug/L # | 42 |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | |
| 5) Bromomethane | 2.89 | 94 | 4972 | 0.0798 ug/L # | 3 |
| 6) Chloroethane | 2.99 | 64 | 16145 | 0.2638 ug/L # | 42 |
| 7) Dichloroflmethane | 0.00 | 67 | 0 | N.D. | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | |
| 11) propyleneoxide | 4.09 | 58 | 2529 | 0.5024 ug/L # | 82 |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | |
| 15) Acetone | 4.24 | 43 | 7657 | N.D. | |
| 16) Iodomethane | 0.00 | 142 | 0 | N.D. | |
| 17) Carbon Dislf | 4.43 | 76 | 9147 | N.D. | |
| 18) allylchloride | 0.00 | 41 | 0 | N.D. | |
| 19) methylacetate | 0.00 | 74 | 0 | N.D. | |
| 20) Methylchlorid | 4.80 | 84 | 8976 | 0.0954 ug/L | 97 |
| 21) tbutylalcohol | 0.00 | 59 | 0 | N.D. | |
| 22) Acrylonitrile | 0.00 | 53 | 0 | N.D. | |
| 23) t12dichlorte | 0.00 | 96 | 0 | N.D. | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | |
| 31) 22dichloropr | 6.41 | 77 | 3039 | N.D. | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | |
| 38) Tetrahydofur | 6.88 | 42 | 3462 | 0.4991 ug/L # | 31 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICB1.D Vial: 21
Acq On : 13 Apr 2025 17:16 Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:40:00 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 0.00 | 78 | 0 | N.D. | |
| 47) | 12dichlorota | 0.00 | 62 | 0 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23Dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 0.00 | 43 | 0 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 0.00 | 43 | 0 | N.D. | |
| 61) | Toluene | 0.00 | 92 | 0 | N.D. | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 0.00 | 43 | 0 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 0.00 | 91 | 0 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 0.00 | 91 | 0 | N.D. | |
| 75) | m p-Xylene | 0.00 | 106 | 0 | N.D. | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | |
| 80) | cyclohexanone | 0.00 | 55 | 0 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 0.00 | 91 | 0 | N.D. | |
| 88) | 2chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 90) | 135Trimebenz | 0.00 | 105 | 0 | N.D. | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | |
| 92) | 124Trimetben | 0.00 | 105 | 0 | N.D. | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) | pIsopropylto | 0.00 | 119 | 0 | N.D. | |
| 96) | 14dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 98) | nButylbenzen | 15.72 | 91 | 2731 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICB1.D  Vial: 21
Acq On : 13 Apr 2025 17:16  Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK  Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:40:00 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | | Qvalue |
|---|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 0.00 | 225 | 0 | N.D. | | | |
| 103) | Naphthalene | 18.24 | 128 | 2600 | 0.0310 | ug/L | # | 75 |
| 104) | 123Trichlben | 0.00 | 180 | 0 | N.D. | | | |

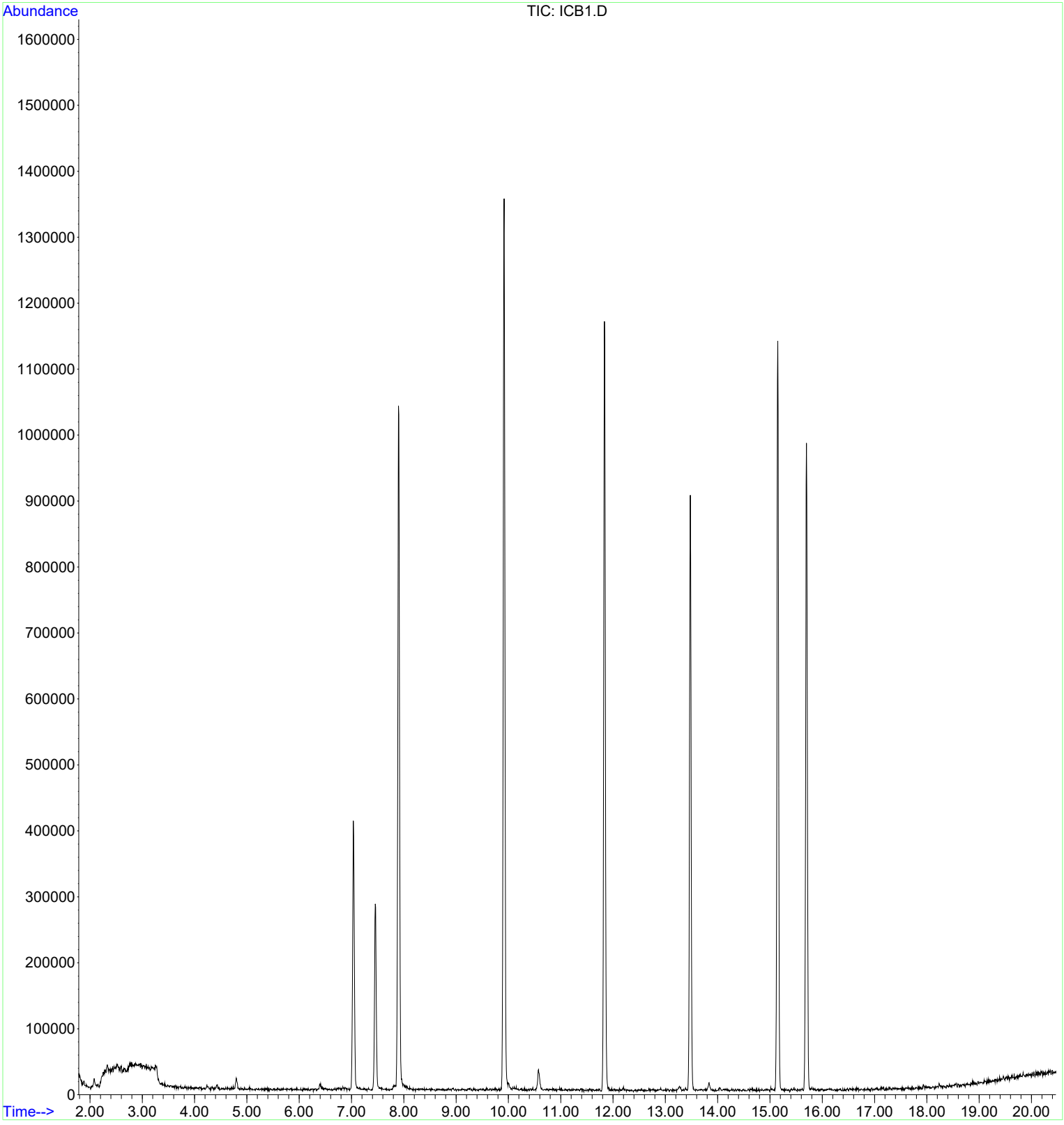
(#) = qualifier out of range (m) = manual integration

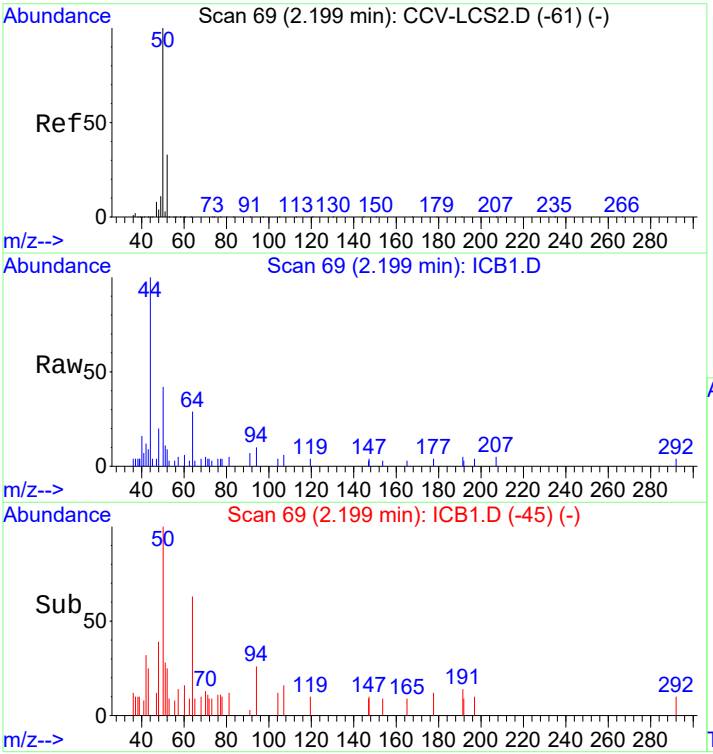
Quantitation Report

Data File : C:\Instarch\Data\APR1325\ICB1.D  Vial: 21
Acq On : 13 Apr 2025 17:16  Operator: RLD-DGS
Sample : INITIAL CALIB. BLANK  Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 07:40:00 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

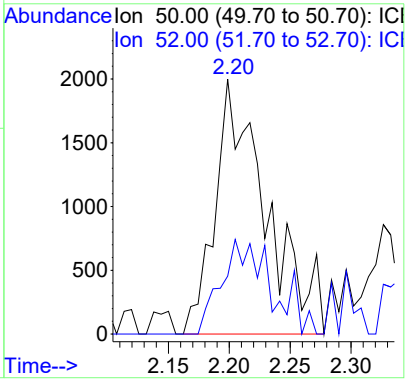


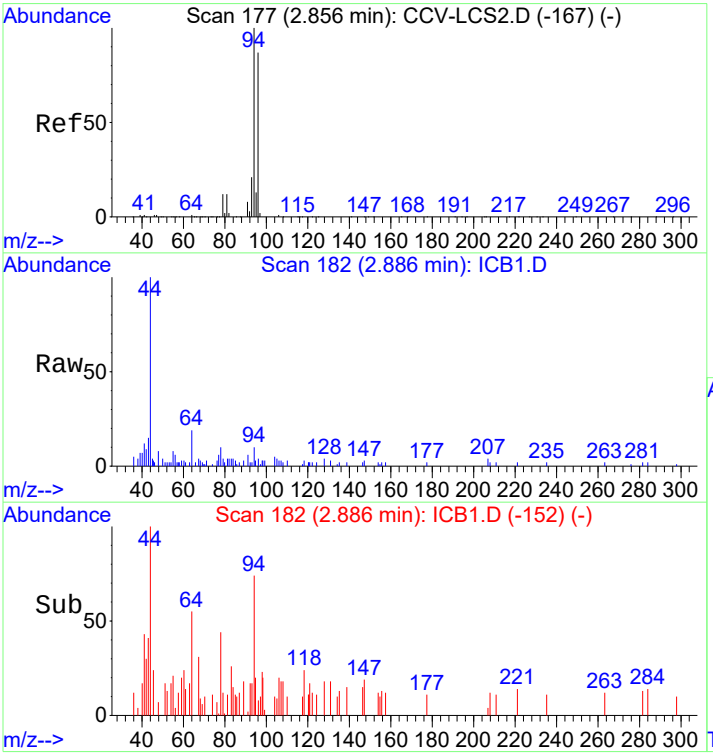



#3
Chloromethan
Concen: 0.06 ug/L
RT: 2.20 min Scan# 69
Delta R.T. -0.01 min
Lab File: ICB1.D
Acq: 13 Apr 2025 17:16

Tgt Ion: 50 Resp: 5817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 0.0 | 13.0 | 53.0# |

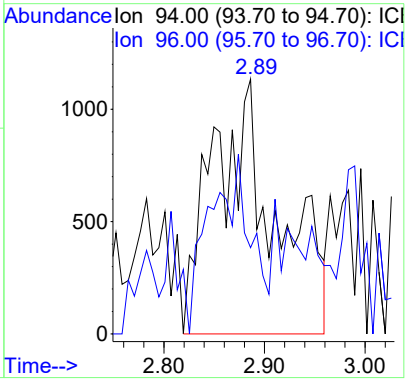


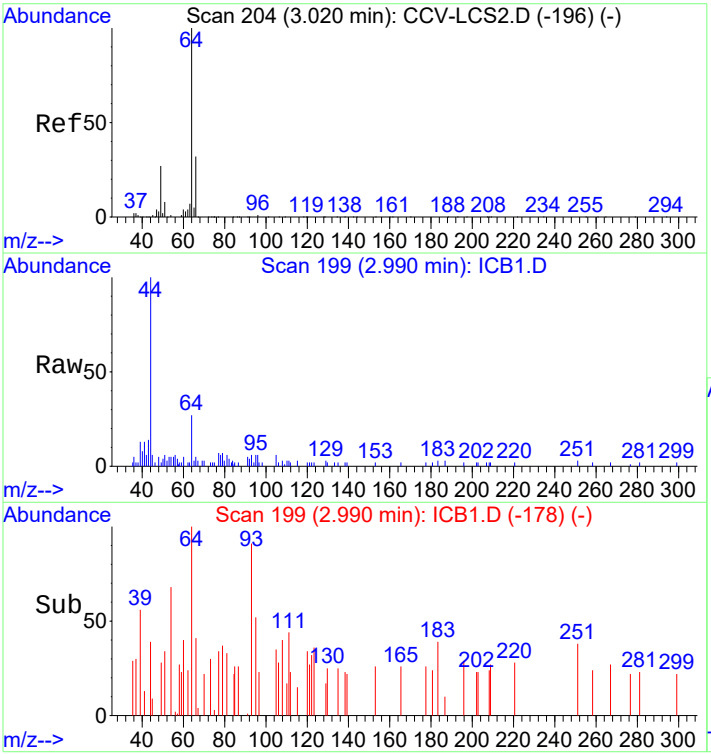

#5
Bromomethane
Concen: 0.08 ug/L
RT: 2.89 min Scan# 182
Delta R.T. 0.03 min
Lab File: ICB1.D
Acq: 13 Apr 2025 17:16

Tgt Ion: 94 Resp: 4972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 0.0 | 73.3 | 113.3# |



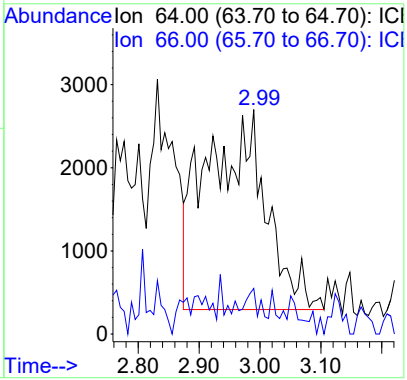

Negative Library Identification



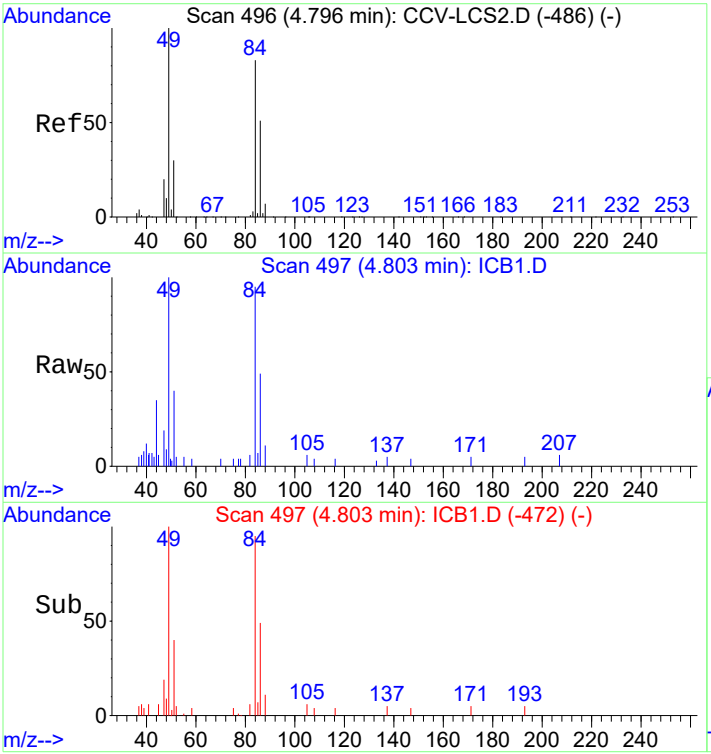

#6
Chloroethane
Concen: 0.26 ug/L
RT: 2.99 min Scan# 199
Delta R.T. -0.02 min
Lab File: ICB1.D
Acq: 13 Apr 2025 17:16

Tgt Ion: 64 Resp: 16145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 12.5 | 52.5# |



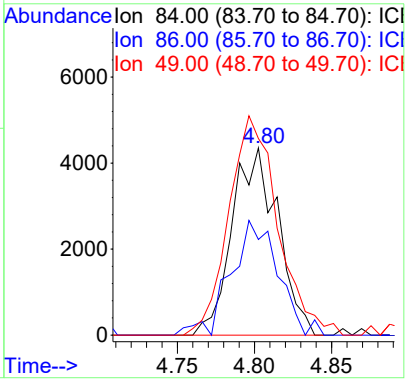

Negative Library Identification



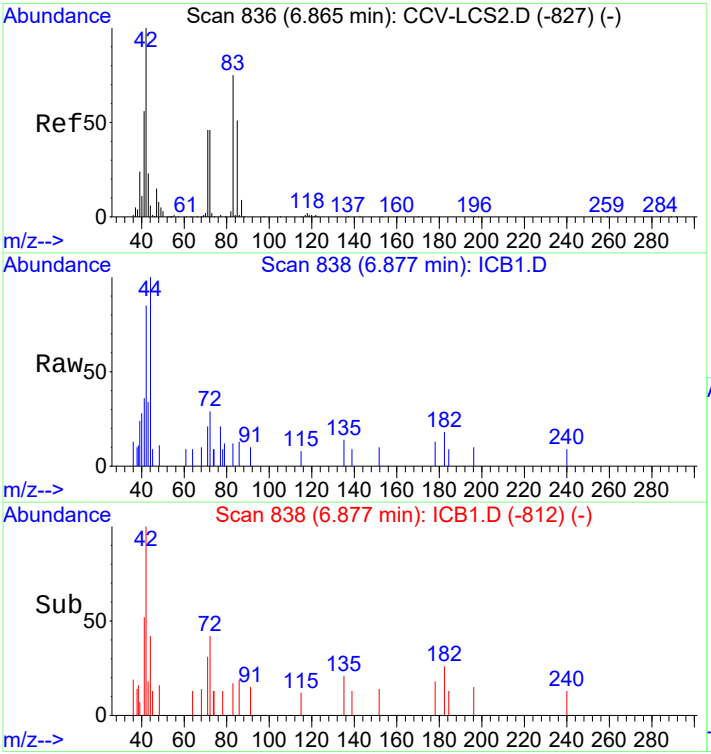

#20
Methylchlorid
Concen: 0.10 ug/L
RT: 4.80 min Scan# 497
Delta R.T. 0.00 min
Lab File: ICB1.D
Acq: 13 Apr 2025 17:16

Tgt Ion: 84 Resp: 8976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 63.8 | 43.2 | 83.2 |
| 49 | 126.1 | 100.7 | 140.7 |



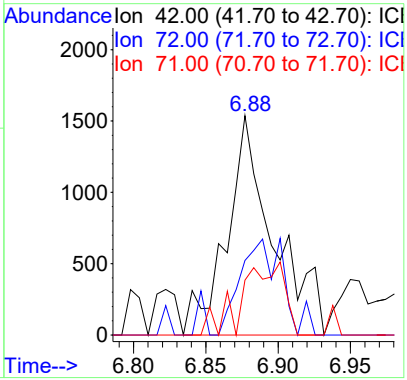

<LOD



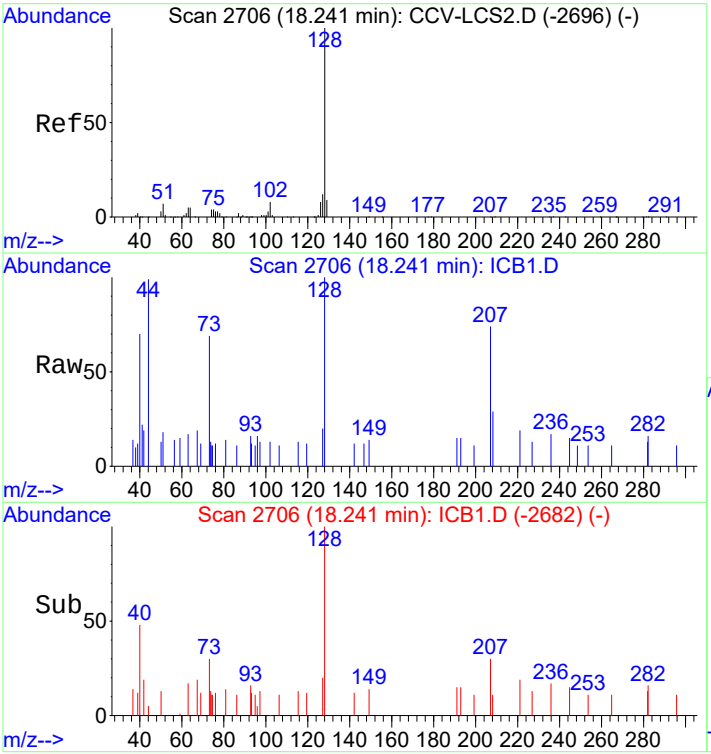

#38
Tetrahydofur
Concen: 0.50 ug/L
RT: 6.88 min Scan# 838
Delta R.T. 0.01 min
Lab File: ICB1.D
Acq: 13 Apr 2025 17:16

Tgt Ion: 42 Resp: 3462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 0.0 | 27.4 | 67.4# |
| 71 | 0.0 | 22.2 | 62.2# |



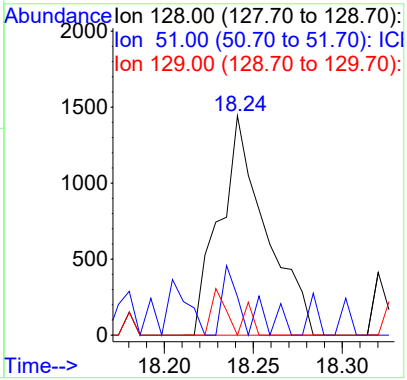

Negative Library Identification




#103
Naphthalene
Concen: 0.03 ug/L
RT: 18.24 min Scan# 2706
Delta R.T. -0.01 min
Lab File: ICB1.D
Acq: 13 Apr 2025 17:16

Tgt Ion:128 Resp: 2600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 51 | 0.0 | 0.0 | 26.7 |
| 129 | 0.0 | 0.0 | 30.4 |




Negative Library Identification

[redacted]

# VOLATILE ORGANIC ANALYSIS
# CONTINUING CALIBRATION
# DOCUMENTS

Data File : C:\Instarch\Data\APR0725\BFB1.D  Vial: 1
Acq On : 7 Apr 2025 9:28  Operator: RLD-DGS
Sample : 290592,BFB,  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.917 to 4.923 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.1 | 12864 | PASS |
| 75 | 95 | 30 | 60 | 50.5 | 32344 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 64082 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 4122 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 343 | PASS |
| 174 | 95 | 50 | 100 | 83.8 | 53690 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 4157 | PASS |
| 176 | 174 | 95 | 101 | 98.2 | 52709 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 3548 | PASS |

PS032525.M Wed Apr 09 11:55:31 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR0725\CCV1.D  Vial: 3
Acq On : 7 Apr 2025 10:10  Operator: RLD-DGS
Sample : 290592,CCV,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 07 10:33:12 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010  Min. Rel. Area : 50%  Max. R.T. Dev 0.15min
Max. RRF Dev : 20%  Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 98 | 0.00 |
| 2 | T | Dichlorodi | 0.2836 | 0.2928 | -3.24 | 98 | -0.03 |
| 3 | PT | Chloromethan | 0.4032 | 0.3283 | 18.58 | 80 | 0.00 |
| 4 | CT | VinylChlorid | 0.3485 | 0.3450 | 1.00 | 91 | -0.01 |
| 5 | T | Bromomethane | 0.1423 | 0.1396 | 1.90 | 111 | 0.00 |
| 6 | T | Chloroethane | 0.0638 | 0.0670 | -5.02 | 110 | -0.01 |
| 7 | T | dichloroflmethane | 0.3862 | 0.4890 | -26.62# | 100 | 0.00 |
| 8 | T | Trichlorofma | 0.4186 | 0.4586 | -9.56 | 94 | 0.00 |
| 9 | T | Ethylether | 0.2391 | 0.2152 | 10.00 | 90 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2855 | 0.2985 | -4.55 | 101 | 0.00 |
| 11 | T | propyleneoxide | 0.0452 | 0.0352 | 22.12# | 76 | 0.00 |
| 12 | T | Acrolein | 0.0553 | 0.0592 | -7.05 | 108 | 0.00 |
| 13 | CT | 11dichlorthe | 0.2337 | 0.2608 | -11.60 | 108 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.2221 | 0.2624 | -18.14 | 112 | 0.00 |
| 15 | T | Acetone | 0.1159 | 0.1129 | 2.59 | 95 | 0.00 |
| 16 | T | Iodomethane | 0.0999 | 0.1074 | -7.51 | 194 | 0.00 |
| 17 | T | Carbon Dislf | 0.6017 | 0.6358 | -5.67 | 106 | 0.00 |
| 18 | T | allylchloride | 0.3692 | 0.3207 | 13.14 | 86 | 0.00 |
| 19 | T | methylacetate | 0.1954 | 0.1543 | 21.03# | 73 | 0.00 |
| 20 | T | Methylchlorid | 0.2805 | 0.2772 | 1.18 | 104 | 0.00 |
| 21 | T | Acrylonitrile | 0.1184 | 0.0978 | 17.40 | 79 | 0.00 |
| 22 | T | t12dichlorte | 0.2498 | 0.2638 | -5.60 | 104 | 0.00 |
| 23 | T | tbutylalcohol | 0.0238 | 0.0171 | 28.15# | 72 | 0.00 |
| 24 | T | MtBE | 0.5430 | 0.4415 | 18.69 | 80 | 0.00 |
| 25 | T | Hexane | 0.4044 | 0.3908 | 3.36 | 91 | 0.00 |
| 26 | PT | 11dichlorota | 0.5161 | 0.5019 | 2.75 | 95 | 0.00 |
| 27 | T | Vinylacetate | 0.4172 | 0.4576 | -9.68 | 113 | 0.00 |
| 28 | T | chloroprene | 0.4004 | 0.3942 | 1.55 | 94 | 0.00 |
| 29 | T | Diisopether | 0.8551 | 0.7060 | 17.44 | 81 | 0.00 |
| 30 | T | ETBE | 0.3843 | 0.1570 | 59.15# | 45# | 0.00 |
| 31 | T | 22dichloropr | 0.3557 | 0.3343 | 6.02 | 97 | 0.00 |
| 32 | T | c12dichlorte | 0.2751 | 0.2948 | -7.16 | 105 | 0.00 |
| 33 | T | 2Butanone | 0.0314 | 0.0333 | -6.05 | 101 | 0.00 |
| 34 | T | propionitrile | 0.0460 | 0.0388 | 15.65 | 81 | 0.00 |
| 35 | T | Ethylacetate | 0.0062 | 0.0060# | 3.23 | 104 | 0.00 |
| 36 | T | methacrylonitrile | 0.1038 | 0.0988 | 4.82 | 90 | 0.00 |
| 37 | T | Bromochlorma | 0.1218 | 0.1311 | -7.64 | 105 | 0.00 |
| 38 | T | Tetrahydofur | 0.0903 | 0.0695 | 23.03# | 76 | 0.00 |
| 39 | CT | Chloroform | 0.4508 | 0.4916 | -9.05 | 106 | 0.00 |
| 40 | T | 111trichlota | 0.3926 | 0.4299 | -9.50 | 110 | 0.00 |
| 41 | S | SURRDibrflma | 0.2694 | 0.3099 | -15.03 | 114 | 0.00 |
| 42 | T | Cyclohexane | 0.4697 | 0.4437 | 5.54 | 90 | 0.00 |
| 43 | T | Carbtetraclo | 0.3349 | 0.3842 | -14.72 | 112 | 0.00 |
| 44 | T | 11dicloprope | 0.1190 | 0.1324 | -11.26 | 108 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0644 | 0.0692 | -7.45 | 108 | 0.00 |
| 46 | T | Benzene | 1.0039 | 1.0601 | -5.60 | 104 | 0.00 |
| 47 | T | 12dichlorota | 0.3696 | 0.3870 | -4.71 | 101 | 0.00 |
| 48 | T | TAME | 0.2100 | 0.0694 | 66.95# | 42# | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.2668 | 0.2834 | -6.22 | 107 | 0.00 |
| 50 | T | methylcyclohexane | 0.4057 | 0.4450 | -9.69 | 104 | 0.00 |
| 51 | CT | 12dicloropra | 0.3110 | 0.2966 | 4.63 | 96 | 0.00 |
| 52 | T | 23dicl1propene | 0.3900 | 0.3867 | 0.85 | 95 | 0.00 |
| 53 | T | Dibromometha | 0.1566 | 0.1681 | -7.34 | 104 | 0.00 |
| 54 | T | methylmethacrylate | 0.1566 | 0.1501 | 4.15 | 93 | 0.00 |
| 55 | T | 14dioxane | 0.0030 | 0.0032# | -6.67 | 98 | -0.02 |
| 56 | T | Bromodiclrma | 0.3401 | 0.3625 | -6.59 | 103 | 0.00 |
| 57 | T | 2Nitropropane | 0.0804 | 0.0782 | 2.74 | 93 | 0.00 |
| 58 | T | c13dicloproe | 0.3929 | 0.4009 | -2.04 | 98 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.2370 | 0.2042 | 13.84 | 80 | 0.00 |
| 60 | S | SURRd8Tolule | 0.9864 | 1.0658 | -8.05 | 106 | 0.00 |
| 61 | CT | Toluene | 0.6144 | 0.6680 | -8.72 | 107 | 0.00 |
| 62 | T | t13Dicloprop | 0.3420 | 0.3501 | -2.37 | 104 | 0.00 |
| 63 | T | ethylmethacrylate | 0.2598 | 0.2530 | 2.62 | 93 | 0.00 |
| 64 | T | 112Triclotha | 0.1906 | 0.2077 | -8.97 | 104 | 0.00 |
| 65 | T | Tetrachlorte | 0.2750 | 0.2838 | -3.20 | 105 | 0.00 |
| 66 | T | 13Diclorpropa | 0.3743 | 0.3918 | -4.68 | 101 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 108 | 0.00 |
| 68 | T | 2Hexanone | 0.2241 | 0.1807 | 19.37 | 83 | 0.00 |
| 69 | T | Clorodibrmta | 0.3255 | 0.3236 | 0.58 | 105 | 0.00 |
| 70 | T | 12Dibrometha | 0.3068 | 0.3004 | 2.09 | 103 | 0.00 |
| 71 | PT | Chlorobenzen | 0.9004 | 0.8799 | 2.28 | 105 | 0.00 |
| 72 | T | 1Clhexane | 0.4415 | 0.4193 | 5.03 | 106 | 0.00 |
| 73 | T | 1112Tetclota | 0.3091 | 0.3140 | -1.59 | 110 | 0.00 |
| 74 | CT | Ethylbenzene | 1.4895 | 1.4657 | 1.60 | 105 | 0.00 |
| 75 | T | m p-Xylene | 0.5811 | 0.5606 | 3.53 | 105 | 0.00 |
| 76 | T | o-Xylene | 0.5487 | 0.5359 | 2.33 | 107 | 0.00 |
| 77 | T | Styrene | 0.8669 | 0.8112 | 6.43 | 97 | 0.00 |
| 78 | PT | Bromoform | 0.2010 | 0.1919 | 4.53 | 103 | 0.00 |
| 79 | T | Isopropylben | 1.4165 | 1.3911 | 1.79 | 105 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 104 | 0.00 |
| 81 | T | cyclohexanone | 0.0765 | 0.1001 | -30.85# | 129 | -0.01 |
| 82 | S | SURR4BrFBenz | 0.9612 | 1.0359 | -7.77 | 113 | 0.00 |
| 83 | T | Bromobenzene | 0.6849 | 0.6779 | 1.02 | 107 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.7740 | 0.7612 | 1.65 | 102 | 0.00 |
| 85 | T | 123Triclproa | 0.7651 | 0.7637 | 0.18 | 104 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0653 | 0.0729 | -11.64 | 129 | 0.00 |
| 87 | T | n-Propylbenz | 3.3812 | 3.4618 | -2.38 | 105 | 0.00 |
| 88 | T | 2chlorotolue | 1.9962 | 1.9882 | 0.40 | 102 | 0.00 |
| 89 | T | 4chlorotolue | 2.3219 | 2.4320 | -4.74 | 107 | 0.00 |
| 90 | T | 135Trimebenz | 2.3169 | 2.3478 | -1.33 | 103 | 0.00 |
| 91 | T | tbutylbenzen | 1.9556 | 2.0039 | -2.47 | 105 | 0.00 |
| 92 | T | 124Trimetben | 2.2956 | 2.3579 | -2.71 | 104 | 0.00 |
| 93 | T | sbutylbenzen | 2.9515 | 3.0165 | -2.20 | 104 | 0.00 |
| 94 | T | 13Diclorbenz | 1.3063 | 1.3026 | 0.28 | 106 | 0.00 |
| 95 | T | pIsopropylto | 2.4866 | 2.5682 | -3.28 | 104 | 0.00 |
| 96 | T | 14dichlorobe | 1.3324 | 1.3052 | 2.04 | 103 | 0.00 |
| 97 | T | 12dichlorobe | 1.2228 | 1.2151 | 0.63 | 104 | 0.00 |
| 98 | T | nButylbenzen | 2.4380 | 2.4121 | 1.06 | 103 | 0.00 |
| 99 | T | 12dibromo3cl | 0.1301 | 0.1066 | 18.06 | 90 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.8681 | 0.8179 | 5.78 | 101 | 0.00 |
| 101 | T | 124Trichlobe | 0.7354 | 0.6682 | 9.14 | 97 | 0.00 |
| 102 | T | Hexachlorobu | 0.4292 | 0.4045 | 5.75 | 103 | 0.00 |
| 103 | T | Naphthalene | 1.5734 | 1.3908 | 11.61 | 94 | 0.00 |
| 104 | T | 123Trichlben | 0.6291 | 0.5610 | 10.82 | 97 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Wed Apr 09 11:58:08 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR0725\CCV1.D  Vial: 3
Acq On : 7 Apr 2025 10:10  Operator: RLD-DGS
Sample : 290592,CCV,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 07 10:33:12 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 98 | 0.00 |
| 2 | T | Dichlorodi | 0.5000 | 0.5161 | -3.22 | 98 | -0.03 |
| 3 | PT | Chloromethan | 0.5000 | 0.4071 | 18.58 | 80 | 0.00 |
| 4 | CT | VinylChlorid | 0.5000 | 0.4950 | 1.00 | 91 | -0.01 |
| 5 | T | Bromomethane | 0.5000 | 0.5693 | -13.86 | 111 | 0.00 |
| 6 | T | Chloroethane | 0.5000 | 0.5250 | -5.00 | 110 | -0.01 |
| 7 | T | dichloroflmethane | 0.5000 | 0.5915 | -18.30 | 100 | 0.00 |
| 8 | T | Trichlorofma | 0.5000 | 0.5478 | -9.56 | 94 | 0.00 |
| 9 | T | Ethylether | 0.5000 | 0.4501 | 9.98 | 90 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.5000 | 0.5227 | -4.54 | 101 | 0.00 |
| 11 | T | propyleneoxide | 5.0000 | 3.8952 | 22.10# | 76 | 0.00 |
| 12 | T | Acrolein | 2.5000 | 2.6776 | -7.10 | 108 | 0.00 |
| 13 | CT | 11dichlorthe | 0.5000 | 0.5581 | -11.62 | 108 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 1.0000 | 1.1814 | -18.14 | 112 | 0.00 |
| 15 | T | Acetone | 5.0000 | 4.8724 | 2.55 | 95 | 0.00 |
| 16 | T | Iodomethane | 1.0000 | 1.3746 | -37.46# | 194 | 0.00 |
| 17 | T | Carbon Dislf | 1.0000 | 1.0567 | -5.67 | 106 | 0.00 |
| 18 | T | allylchloride | 1.0000 | 0.8687 | 13.13 | 86 | 0.00 |
| 19 | T | methylacetate | 0.5000 | 0.3948 | 21.04# | 73 | 0.00 |
| 20 | T | Methylchlorid | 0.5000 | 0.4942 | 1.16 | 104 | 0.00 |
| 21 | T | Acrylonitrile | 2.5000 | 2.0633 | 17.47 | 79 | 0.00 |
| 22 | T | t12dichlorte | 0.5000 | 0.5281 | -5.62 | 104 | 0.00 |
| 23 | T | tbutylalcohol | 25.0000 | 17.9823 | 28.07# | 72 | 0.00 |
| 24 | T | MtBE | 0.5000 | 0.4066 | 18.68 | 80 | 0.00 |
| 25 | T | Hexane | 1.0000 | 0.9663 | 3.37 | 91 | 0.00 |
| 26 | PT | 11dichlorota | 0.5000 | 0.4862 | 2.76 | 95 | 0.00 |
| 27 | T | Vinylacetate | 5.0000 | 5.4846 | -9.69 | 113 | 0.00 |
| 28 | T | chloroprene | 1.0000 | 0.9845 | 1.55 | 94 | 0.00 |
| 29 | T | Diisopether | 0.5000 | 0.4128 | 17.44 | 81 | 0.00 |
| 30 | T | ETBE | 0.5000 | 0.2408 | 51.84# | 45 | 0.00 |
| 31 | T | 22dichloropr | 0.5000 | 0.4699 | 6.02 | 97 | 0.00 |
| 32 | T | c12dichlorte | 0.5000 | 0.5358 | -7.16 | 105 | 0.00 |
| 33 | T | 2Butanone | 5.0000 | 5.3013 | -6.03 | 101 | 0.00 |
| 34 | T | propionitrile | 5.0000 | 4.2247 | 15.51 | 81 | 0.00 |
| 35 | T | Ethylacetate | 2.5000 | 2.4460 | 2.16 | 104 | 0.00 |
| 36 | T | methacrylonitrile | 1.0000 | 0.9519 | 4.81 | 90 | 0.00 |
| 37 | T | Bromochlorma | 0.5000 | 0.5383 | -7.66 | 105 | 0.00 |
| 38 | T | Tetrahydofur | 5.0000 | 3.8461 | 23.08# | 76 | 0.00 |
| 39 | CT | Chloroform | 0.5000 | 0.5452 | -9.04 | 106 | 0.00 |
| 40 | T | 111trichlota | 0.5000 | 0.5476 | -9.52 | 110 | 0.00 |
| 41 | S | SURRDibrflma | 1.0000 | 1.1504 | -15.04 | 114 | 0.00 |
| 42 | T | Cyclohexane | 0.5000 | 0.4723 | 5.54 | 90 | 0.00 |
| 43 | T | Carbtetraclo | 0.5000 | 0.5736 | -14.72 | 112 | 0.00 |
| 44 | T | 11dicloprope | 0.5000 | 0.5563 | -11.26 | 108 | 0.00 |
| 45 | S | SURR12DCAd4 | 1.0000 | 1.0749 | -7.49 | 108 | 0.00 |
| 46 | T | Benzene | 0.5000 | 0.5280 | -5.60 | 104 | 0.00 |
| 47 | T | 12dichlorota | 0.5000 | 0.5235 | -4.70 | 101 | 0.00 |
| 48 | T | TAME | 0.5000 | 0.2202 | 55.96# | 42 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.5000 | 0.5311 | -6.22 | 107 | 0.00 |
| 50 | T | methylcyclohexane | 0.5000 | 0.5484 | -9.68 | 104 | 0.00 |
| 51 | CT | 12dicloropra | 0.5000 | 0.4769 | 4.62 | 96 | 0.00 |
| 52 | T | 23dicl1propene | 0.5000 | 0.4958 | 0.84 | 95 | 0.00 |
| 53 | T | Dibromometha | 0.5000 | 0.5367 | -7.34 | 104 | 0.00 |
| 54 | T | methylmethacrylate | 0.5000 | 0.4795 | 4.10 | 93 | 0.00 |
| 55 | T | 14dioxane | 25.0000 | 26.2867 | -5.15 | 98 | -0.02 |
| 56 | T | Bromodiclrma | 0.5000 | 0.5329 | -6.58 | 103 | 0.00 |
| 57 | T | 2Nitropropane | 5.0000 | 4.8643 | 2.71 | 93 | 0.00 |
| 58 | T | c13dicloproe | 0.5000 | 0.5102 | -2.04 | 98 | 0.00 |
| 59 | T | 4Meth2Pentan | 5.0000 | 4.3066 | 13.87 | 80 | 0.00 |
| 60 | S | SURRd8Tolule | 1.0000 | 1.0805 | -8.05 | 106 | 0.00 |
| 61 | CT | Toluene | 0.5000 | 0.5436 | -8.72 | 107 | 0.00 |
| 62 | T | t13Dicloprop | 0.5000 | 0.5119 | -2.38 | 104 | 0.00 |
| 63 | T | ethylmethacrylate | 1.0000 | 0.9739 | 2.61 | 93 | 0.00 |
| 64 | T | 112Triclotha | 0.5000 | 0.5448 | -8.96 | 104 | 0.00 |
| 65 | T | Tetrachlorte | 0.5000 | 0.5160 | -3.20 | 105 | 0.00 |
| 66 | T | 13Diclorpropa | 0.5000 | 0.5233 | -4.66 | 101 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 108 | 0.00 |
| 68 | T | 2Hexanone | 5.0000 | 4.0335 | 19.33 | 83 | 0.00 |
| 69 | T | Clorodibrmta | 0.5000 | 0.4971 | 0.58 | 105 | 0.00 |
| 70 | T | 12Dibrometha | 0.5000 | 0.4896 | 2.08 | 103 | 0.00 |
| 71 | PT | Chlorobenzen | 0.5000 | 0.4887 | 2.26 | 105 | 0.00 |
| 72 | T | 1Clhexane | 0.5000 | 0.4749 | 5.02 | 106 | 0.00 |
| 73 | T | 1112Tetclota | 0.5000 | 0.5081 | -1.62 | 110 | 0.00 |
| 74 | CT | Ethylbenzene | 0.5000 | 0.4920 | 1.60 | 105 | 0.00 |
| 75 | T | m p-Xylene | 1.0000 | 0.9648 | 3.52 | 105 | 0.00 |
| 76 | T | o-Xylene | 0.5000 | 0.4883 | 2.34 | 107 | 0.00 |
| 77 | T | Styrene | 0.5000 | 0.4679 | 6.42 | 97 | 0.00 |
| 78 | PT | Bromoform | 0.5000 | 0.4775 | 4.50 | 103 | 0.00 |
| 79 | T | Isopropylben | 0.5000 | 0.4910 | 1.80 | 105 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 104 | 0.00 |
| 81 | T | cyclohexanone | 10.0000 | 13.0897 | -30.90# | 129 | -0.01 |
| 82 | S | SURR4BrFBenz | 1.0000 | 1.0776 | -7.76 | 113 | 0.00 |
| 83 | T | Bromobenzene | 0.5000 | 0.4949 | 1.02 | 107 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.5000 | 0.4917 | 1.66 | 102 | 0.00 |
| 85 | T | 123Triclproa | 0.5000 | 0.4991 | 0.18 | 104 | 0.00 |
| 86 | T | 14dichloro2butene | 0.5000 | 0.5582 | -11.64 | 129 | 0.00 |
| 87 | T | n-Propylbenz | 0.5000 | 0.5119 | -2.38 | 105 | 0.00 |
| 88 | T | 2chlorotolue | 0.5000 | 0.4980 | 0.40 | 102 | 0.00 |
| 89 | T | 4chlorotolue | 0.5000 | 0.5237 | -4.74 | 107 | 0.00 |
| 90 | T | 135Trimebenz | 0.5000 | 0.5067 | -1.34 | 103 | 0.00 |
| 91 | T | tbutylbenzen | 0.5000 | 0.5123 | -2.46 | 105 | 0.00 |
| 92 | T | 124Trimetben | 0.5000 | 0.5136 | -2.72 | 104 | 0.00 |
| 93 | T | sbutylbenzen | 0.5000 | 0.5110 | -2.20 | 104 | 0.00 |
| 94 | T | 13Diclorbenz | 0.5000 | 0.4986 | 0.28 | 106 | 0.00 |
| 95 | T | pIsopropylto | 0.5000 | 0.5164 | -3.28 | 104 | 0.00 |
| 96 | T | 14dichlorobe | 0.5000 | 0.4898 | 2.04 | 103 | 0.00 |
| 97 | T | 12dichlorobe | 0.5000 | 0.4969 | 0.62 | 104 | 0.00 |
| 98 | T | nButylbenzen | 0.5000 | 0.4947 | 1.06 | 103 | 0.00 |
| 99 | T | 12dibromo3cl | 0.5000 | 0.4100 | 18.00 | 90 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.5000 | 0.4711 | 5.78 | 101 | 0.00 |
| 101 | T | 124Trichlobe | 0.5000 | 0.4543 | 9.14 | 97 | 0.00 |
| 102 | T | Hexachlorobu | 0.5000 | 0.4713 | 5.74 | 103 | 0.00 |
| 103 | T | Naphthalene | 0.5000 | 0.4420 | 11.60 | 94 | 0.00 |
| 104 | T | 123Trichlben | 0.5000 | 0.4459 | 10.82 | 97 | 0.00 |

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(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Wed Apr 09 11:58:30 2025

Quantitation Report

Data File : C:\Instarch\Data\APR0725\CCV1.D Vial: 3
Acq On : 7 Apr 2025 10:10 Operator: RLD-DGS
Sample : 290592,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 10:33:12 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:33:08 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.89 | 96 | 1203015 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 1011564 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 502859 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 372819 | 1.150 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 115 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 83304 | 1.075 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 108 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1282181 | 1.080 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 108 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 520898 | 1.078 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 108 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.93 | 85 | 176122 | 0.5161 | mg/kg | 96 |
| 3) Chloromethan | 2.20 | 50 | 197455 | 0.4071 | mg/kg | 98 |
| 4) VinylChlorid | 2.36 | 62 | 207521 | 0.4950 | mg/kg | 90 |
| 5) Bromomethane | 2.83 | 94 | 83980 | 0.5693 | mg/kg | 86 |
| 6) Chloroethane | 2.97 | 64 | 40282 | 0.5250 | mg/kg | 99 |
| 7) dichloroflmethane | 3.29 | 67 | 294141 | 0.5915 | mg/kg | 98 |
| 8) Trichlorofma | 3.35 | 101 | 275870 | 0.5478 | mg/kg | 98 |
| 9) Ethylether | 3.90 | 59 | 129452 | 0.4501 | mg/kg | 93 |
| 10) dichlorotfluoroethan | 3.85 | 67 | 179562 | 0.5227 | mg/kg | 95 |
| 11) propyleneoxide | 4.10 | 58 | 211702 | 3.8952 | mg/kg | 94 |
| 12) Acrolein | 4.02 | 56 | 178001 | 2.6776 | mg/kg | 89 |
| 13) 11dichlorthe | 4.12 | 96 | 156898 | 0.5581 | mg/kg | 89 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 315645 | 1.1814 | mg/kg | 99 |
| 15) Acetone | 4.27 | 43 | 679196 | 4.8724 | mg/kg | 98 |
| 16) Iodomethane | 4.30 | 127 | 129222 | 1.3746 | mg/kg | 94 |
| 17) Carbon Dislf | 4.39 | 76 | 764869 | 1.0567 | mg/kg | 100 |
| 18) allylchloride | 4.63 | 41 | 385776 | 0.8687 | mg/kg | 90 |
| 19) methylacetate | 4.72 | 74 | 92794 | 0.3948 | mg/kg | 92 |
| 20) Methylchlorid | 4.79 | 84 | 166758 | 0.4942 | mg/kg# | 83 |
| 21) Acrylonitrile | 5.12 | 53 | 293994 | 2.0633 | mg/kg | 97 |
| 22) t12dichlorte | 5.17 | 96 | 158672 | 0.5281 | mg/kg | 94 |
| 23) tbutylalcohol | 5.11 | 59 | 513793 | 17.9823 | mg/kg | 99 |
| 24) MtBE | 5.25 | 73 | 265576 | 0.4066 | mg/kg | 97 |
| 25) Hexane | 5.57 | 57 | 470091 | 0.9663 | mg/kg | 99 |
| 26) 11dichlorota | 5.70 | 63 | 301896 | 0.4862 | mg/kg | 97 |
| 27) Vinylacetate | 5.81 | 43 | 2752614 | 5.4846 | mg/kg | 94 |
| 28) chloroprene | 5.84 | 53 | 474184 | 0.9845 | mg/kg | 94 |
| 29) Diisopether | 5.89 | 45 | 424688 | 0.4128 | mg/kg | 92 |
| 30) ETBE | 6.35 | 59 | 94465 | 0.2408 | mg/kg | 97 |
| 31) 22dichloropr | 6.46 | 77 | 201098 | 0.4699 | mg/kg | 99 |
| 32) c12dichlorte | 6.45 | 96 | 177351 | 0.5358 | mg/kg | 88 |
| 33) 2Butanone | 6.50 | 72 | 200108 | 5.3013 | mg/kg | 98 |
| 34) propionitrile | 6.52 | 54 | 233683 | 4.2247 | mg/kg | 97 |
| 35) Ethylacetate | 6.60 | 88 | 18151 | 2.4460 | mg/kg# | 66 |
| 36) methacrylonitrile | 6.72 | 67 | 118865 | 0.9519 | mg/kg# | 87 |
| 37) Bromochlorma | 6.74 | 128 | 78881 | 0.5383 | mg/kg# | 79 |
| 38) Tetrahydofur | 6.88 | 42 | 417849 | 3.8461 | mg/kg | 84 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0725\CCV1.D Vial: 3
Acq On : 7 Apr 2025 10:10 Operator: RLD-DGS
Sample : 290592,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 10:33:12 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:33:08 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 295673 | 0.5452 | mg/kg | 98 |
| 40) | 111trichlota | 7.09 | 97 | 258581 | 0.5476 | mg/kg | 96 |
| 42) | Cyclohexane | 7.18 | 56 | 266871 | 0.4723 | mg/kg | 88 |
| 43) | Carbtetraclo | 7.32 | 119 | 231097 | 0.5736 | mg/kg | 97 |
| 44) | 11dicloprope | 7.31 | 110 | 79651 | 0.5563 | mg/kg | 93 |
| 46) | Benzene | 7.55 | 78 | 637642 | 0.5280 | mg/kg | 97 |
| 47) | 12dichlorota | 7.55 | 62 | 232799 | 0.5235 | mg/kg | 99 |
| 48) | TAME | 7.75 | 73 | 41765 | 0.2202 | mg/kg | 96 |
| 49) | trichloroete | 8.36 | 95 | 170452 | 0.5311 | mg/kg | 97 |
| 50) | methylcyclohexane | 8.64 | 83 | 267647 | 0.5484 | mg/kg | 90 |
| 51) | 12dicloropra | 8.62 | 63 | 178437 | 0.4769 | mg/kg | 97 |
| 52) | 23dicl1propene | 8.68 | 75 | 232592 | 0.4958 | mg/kg | 95 |
| 53) | Dibromometha | 8.76 | 93 | 101127 | 0.5367 | mg/kg | 97 |
| 54) | methylmethacrylate | 8.80 | 69 | 90304 | 0.4795 | mg/kg | 94 |
| 55) | 14dioxane | 8.84 | 88 | 95913 | 26.2867 | mg/kg | 89 |
| 56) | Bromodiclrma | 8.96 | 83 | 218035 | 0.5329 | mg/kg | 98 |
| 57) | 2Nitropropane | 9.23 | 43 | 470538 | 4.8643 | mg/kg | 99 |
| 58) | c13dicloproe | 9.55 | 75 | 241127 | 0.5102 | mg/kg | 99 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 1228016 | 4.3066 | mg/kg | 96 |
| 61) | Toluene | 10.00 | 92 | 401795 | 0.5436 | mg/kg | 97 |
| 62) | t13Dicloprop | 10.25 | 75 | 210602 | 0.5119 | mg/kg | 98 |
| 63) | ethylmethacrylate | 10.42 | 69 | 304318 | 0.9739 | mg/kg | 90 |
| 64) | 112Triclotha | 10.50 | 83 | 124930 | 0.5448 | mg/kg | 98 |
| 65) | Tetrachlorte | 10.75 | 166 | 170731 | 0.5160 | mg/kg | 98 |
| 66) | 13Diclorpropa | 10.72 | 76 | 235644 | 0.5233 | mg/kg | 99 |
| 68) | 2Hexanone | 10.86 | 43 | 914197 | 4.0335 | mg/kg | 97 |
| 69) | Clorodibrmta | 11.03 | 129 | 163684 | 0.4971 | mg/kg | 96 |
| 70) | 12Dibrometha | 11.18 | 107 | 151957 | 0.4896 | mg/kg | 100 |
| 71) | Chlorobenzen | 11.88 | 112 | 445051 | 0.4887 | mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 212085 | 0.4749 | mg/kg | 90 |
| 73) | 1112Tetclota | 11.98 | 131 | 158840 | 0.5081 | mg/kg | 95 |
| 74) | Ethylbenzene | 12.04 | 91 | 741318 | 0.4920 | mg/kg | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 567132 | 0.9648 | mg/kg | 99 |
| 76) | o-Xylene | 12.75 | 106 | 271042 | 0.4883 | mg/kg | 97 |
| 77) | Styrene | 12.76 | 104 | 410294 | 0.4679 | mg/kg | 98 |
| 78) | Bromoform | 12.99 | 173 | 97075 | 0.4775 | mg/kg | 98 |
| 79) | Isopropylben | 13.28 | 105 | 703580 | 0.4910 | mg/kg | 100 |
| 81) | cyclohexanone | 13.38 | 55 | 503609 | 13.0897 | mg/kg | 91 |
| 83) | Bromobenzene | 13.69 | 156 | 170450 | 0.4949 | mg/kg | 98 |
| 84) | 1122Tetrclta | 13.65 | 83 | 191391 | 0.4917 | mg/kg | 99 |
| 85) | 123Triclproa | 13.71 | 75 | 192027 | 0.4991 | mg/kg | 99 |
| 86) | 14dichloro2butene | 13.74 | 53 | 18321 | 0.5582 | mg/kg | 90 |
| 87) | n-Propylbenz | 13.87 | 91 | 870400 | 0.5119 | mg/kg | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 499887 | 0.4980 | mg/kg | 96 |
| 89) | 4chlorotolue | 14.13 | 91 | 611478 | 0.5237 | mg/kg | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 590296 | 0.5067 | mg/kg | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 503832 | 0.5123 | mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 592845 | 0.5136 | mg/kg | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 758444 | 0.5110 | mg/kg | 97 |
| 94) | 13Diclorbenz | 15.06 | 146 | 327504 | 0.4986 | mg/kg | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 645712 | 0.5164 | mg/kg | 98 |
| 96) | 14dichlorobe | 15.19 | 146 | 328164 | 0.4898 | mg/kg | 97 |
| 97) | 12dichlorobe | 15.72 | 146 | 305513 | 0.4969 | mg/kg | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 606481 | 0.4947 | mg/kg | 100 |
| 99) | 12dibromo3cl | 16.81 | 157 | 26812 | 0.4100 | mg/kg | 93 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 205640 | 0.4711 | mg/kg | 94 |
| 101) | 124Trichlobe | 17.94 | 180 | 167994 | 0.4543 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0725\CCV1.D  Vial: 3
Acq On : 7 Apr 2025 10:10  Operator: RLD-DGS
Sample : 290592,CCV,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 10:33:12 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:33:08 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 101699 | 0.4713 | mg/kg | 98 |
| 103) Naphthalene | 18.25 | 128 | 349689 | 0.4420 | mg/kg | 96 |
| 104) 123Trichlben | 18.55 | 180 | 141054 | 0.4459 | mg/kg | 96 |

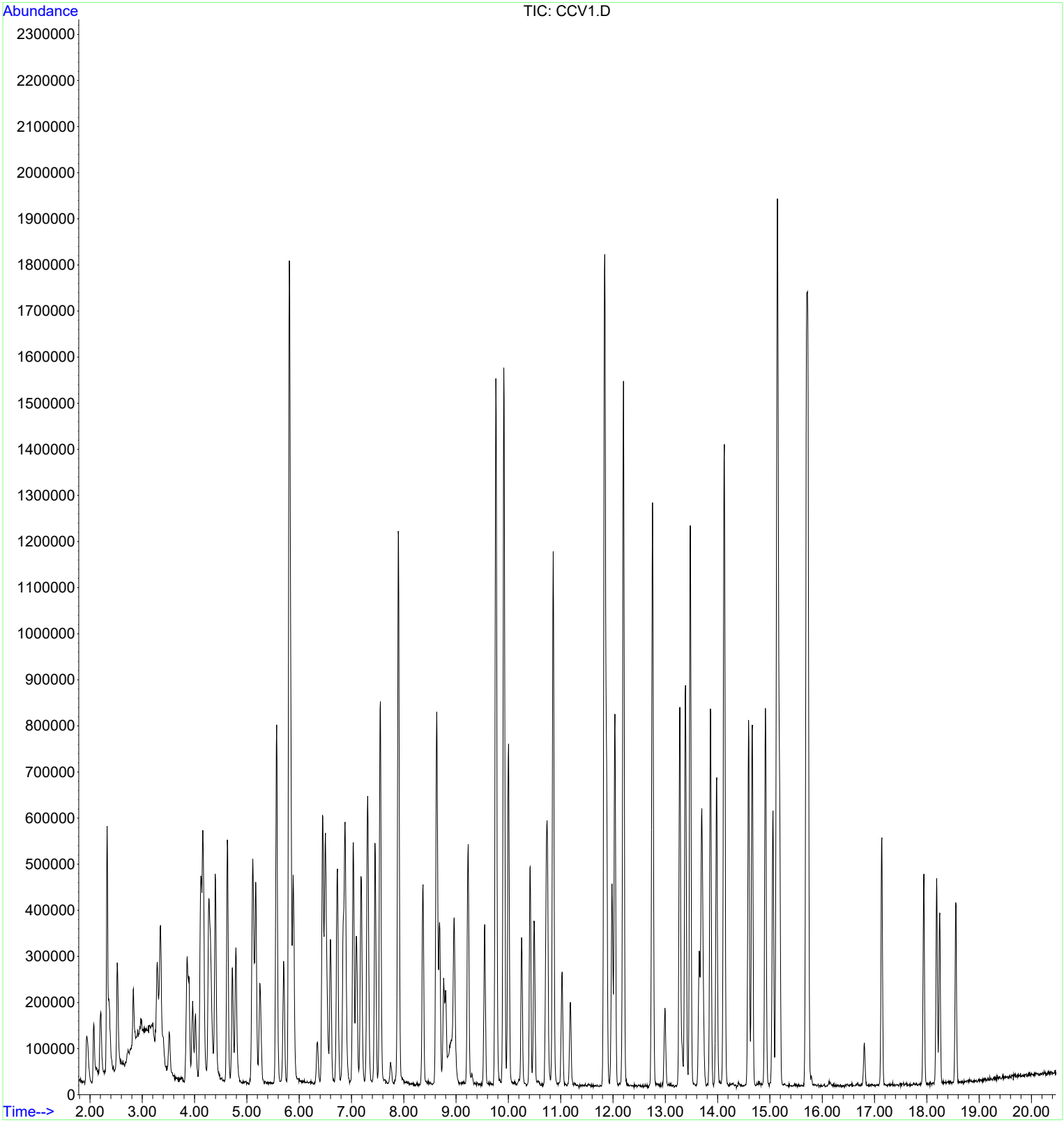
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0725\CCV1.D  Vial: 3
Acq On : 7 Apr 2025 10:10  Operator: RLD-DGS
Sample : 290592,CCV,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 10:33:12 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:33:08 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR0725\CCVF1.D  Vial: 27
Acq On : 7 Apr 2025 21:16  Operator: RLD-DGS
Sample : 2905984,CCVF,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 07 21:37:22 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 52 | 0.00 |
| 2 | T | Dichlorodi | 0.2836 | 0.2709 | 4.48 | 48# | -0.02 |
| 3 | PT | Chloromethan | 0.4032 | 0.2436 | 39.58 | 32# | 0.00 |
| 4 | CT | VinylChlorid | 0.3485 | 0.3437 | 1.38 | 48# | -0.01 |
| 5 | T | Bromomethane | 0.1423 | 0.2271 | -59.59# | 96 | 0.00 |
| 6 | T | Chloroethane | 0.0638 | 0.1043 | -63.48# | 91 | 0.00 |
| 7 | T | dichloroflmethane | 0.3862 | 0.7890 | -104.30# | 85 | 0.00 |
| 8 | T | Trichlorofma | 0.4186 | 0.6115 | -46.08 | 66 | 0.00 |
| 9 | T | Ethylether | 0.2391 | 0.1774 | 25.81 | 39# | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2855 | 0.2841 | 0.49 | 51 | 0.00 |
| 11 | T | propyleneoxide | 0.0452 | 0.0307 | 32.08 | 35# | 0.00 |
| 12 | T | Acrolein | 0.0553 | 0.0406 | 26.58 | 39# | 0.00 |
| 13 | CT | 11dichlorthe | 0.2337 | 0.2300 | 1.58 | 50 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.2221 | 0.2369 | -6.66 | 54 | 0.00 |
| 15 | T | Acetone | 0.1159 | 0.1060 | 8.54 | 47# | 0.00 |
| 16 | T | Iodomethane | 0.0999 | 0.1104 | -10.51 | 105 | 0.00 |
| 17 | T | Carbon Dislf | 0.6017 | 0.5611 | 6.75 | 50# | 0.00 |
| 18 | T | allylchloride | 0.3692 | 0.2355 | 36.21 | 33# | 0.00 |
| 19 | T | methylacetate | 0.1954 | 0.2294 | -17.40 | 58 | 0.00 |
| 20 | T | Methylchlorid | 0.2805 | 0.2548 | 9.16 | 51 | 0.00 |
| 21 | T | Acrylonitrile | 0.1184 | 0.0764 | 35.47 | 33# | 0.00 |
| 22 | T | t12dichlorte | 0.2498 | 0.2456 | 1.68 | 51 | 0.00 |
| 23 | T | tbutylalcohol | 0.0238 | 0.0154 | 35.29 | 34# | 0.00 |
| 24 | T | MtBE | 0.5430 | 0.4464 | 17.79 | 43# | 0.00 |
| 25 | T | Hexane | 0.4044 | 0.2892 | 28.49 | 36# | 0.00 |
| 26 | PT | 11dichlorota | 0.5161 | 0.4286 | 16.95 | 43# | 0.00 |
| 27 | T | Vinylacetate | 0.4172 | 0.1490 | 64.29# | 19# | 0.00 |
| 28 | T | chloroprene | 0.4004 | 0.3081 | 23.05 | 39# | 0.00 |
| 29 | T | Diisopether | 0.8551 | 0.5566 | 34.91 | 34# | 0.00 |
| 30 | T | ETBE | 0.3843 | 0.1620 | 57.85# | 24# | 0.00 |
| 31 | T | 22dichloropr | 0.3557 | 0.2918 | 17.96 | 45# | 0.00 |
| 32 | T | c12dichlorte | 0.2751 | 0.2741 | 0.36 | 52 | 0.00 |
| 33 | T | 2Butanone | 0.0314 | 0.0332 | -5.73 | 54 | 0.00 |
| 34 | T | propionitrile | 0.0460 | 0.0304 | 33.91 | 33# | 0.00 |
| 35 | T | Ethylacetate | 0.0062 | 0.0066# | -6.45 | 60 | 0.00 |
| 36 | T | methacrylonitrile | 0.1038 | 0.0876 | 15.61 | 42# | 0.00 |
| 37 | T | Bromochlorma | 0.1218 | 0.1190 | 2.30 | 51 | 0.00 |
| 38 | T | Tetrahydofur | 0.0903 | 0.0555 | 38.54 | 32# | 0.00 |
| 39 | CT | Chloroform | 0.4508 | 0.4650 | -3.15 | 53 | 0.00 |
| 40 | T | 111trichlota | 0.3926 | 0.3957 | -0.79 | 54 | 0.00 |
| 41 | S | SURRDibrflma | 0.2694 | 0.2792 | -3.64 | 55 | 0.00 |
| 42 | T | Cyclohexane | 0.4697 | 0.3364 | 28.38 | 36# | 0.00 |
| 43 | T | Carbtetraclo | 0.3349 | 0.3417 | -2.03 | 53 | 0.00 |
| 44 | T | 11dicloprope | 0.1190 | 0.1219 | -2.44 | 53 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0644 | 0.0629 | 2.33 | 52 | 0.00 |
| 46 | T | Benzene | 1.0039 | 0.9699 | 3.39 | 51 | 0.00 |
| 47 | T | 12dichlorota | 0.3696 | 0.3546 | 4.06 | 49# | 0.00 |
| 48 | T | TAME | 0.2100 | 0.0896 | 57.33# | 29# | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.2668 | 0.2625 | 1.61 | 52 | 0.00 |
| 50 | T | methylcyclohexane | 0.4057 | 0.3814 | 5.99 | 47# | 0.00 |
| 51 | CT | 12dicloropra | 0.3110 | 0.2605 | 16.24 | 44# | 0.00 |
| 52 | T | 23dicl1propene | 0.3900 | 0.3530 | 9.49 | 46# | 0.00 |
| 53 | T | Dibromometha | 0.1566 | 0.1696 | -8.30 | 55 | 0.00 |
| 54 | T | methylmethacrylate | 0.1566 | 0.1278 | 18.39 | 42# | 0.00 |
| 55 | T | 14dioxane | 0.0030 | 0.0029# | 3.33 | 47# | -0.01 |
| 56 | T | Bromodiclrma | 0.3401 | 0.3471 | -2.06 | 52 | 0.00 |
| 57 | T | 2Nitropropane | 0.0804 | 0.0677 | 15.80 | 43# | 0.00 |
| 58 | T | c13dicloproe | 0.3929 | 0.3686 | 6.18 | 48# | 0.00 |
| 59 | T | 4Meth2Pentan | 0.2370 | 0.1778 | 24.98 | 37# | 0.00 |
| 60 | S | SURRd8Tolule | 0.9864 | 1.0362 | -5.05 | 55 | 0.00 |
| 61 | CT | Toluene | 0.6144 | 0.5724 | 6.84 | 48# | 0.00 |
| 62 | T | t13Dicloprop | 0.3420 | 0.3046 | 10.94 | 48# | 0.00 |
| 63 | T | ethylmethacrylate | 0.2598 | 0.2211 | 14.90 | 43# | 0.00 |
| 64 | T | 112Triclotha | 0.1906 | 0.1782 | 6.51 | 47# | 0.00 |
| 65 | T | Tetrachlorte | 0.2750 | 0.2435 | 11.45 | 48# | 0.00 |
| 66 | T | 13Diclorpropa | 0.3743 | 0.3458 | 7.61 | 47# | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 55 | 0.00 |
| 68 | T | 2Hexanone | 0.2241 | 0.1617 | 27.84 | 38# | 0.00 |
| 69 | T | Clorodibrmta | 0.3255 | 0.2841 | 12.72 | 47# | 0.00 |
| 70 | T | 12Dibrometha | 0.3068 | 0.2688 | 12.39 | 47# | 0.00 |
| 71 | PT | Chlorobenzen | 0.9004 | 0.8164 | 9.33 | 50# | 0.00 |
| 72 | T | 1Clhexane | 0.4415 | 0.3690 | 16.42 | 48# | 0.00 |
| 73 | T | 1112Tetclota | 0.3091 | 0.2825 | 8.61 | 51 | 0.00 |
| 74 | CT | Ethylbenzene | 1.4895 | 1.3819 | 7.22 | 51 | 0.00 |
| 75 | T | m p-Xylene | 0.5811 | 0.5157 | 11.25 | 49# | 0.00 |
| 76 | T | o-Xylene | 0.5487 | 0.4927 | 10.21 | 51 | 0.00 |
| 77 | T | Styrene | 0.8669 | 0.7656 | 11.69 | 47# | 0.00 |
| 78 | PT | Bromoform | 0.2010 | 0.1740 | 13.43 | 48# | 0.00 |
| 79 | T | Isopropylben | 1.4165 | 1.2588 | 11.13 | 49# | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 53 | 0.00 |
| 81 | T | cyclohexanone | 0.0765 | 0.0896 | -17.12 | 58 | -0.01 |
| 82 | S | SURR4BrFBenz | 0.9612 | 0.9431 | 1.88 | 52 | 0.00 |
| 83 | T | Bromobenzene | 0.6849 | 0.5987 | 12.59 | 48# | 0.00 |
| 84 | PT | 1122Tetrclta | 0.7740 | 0.7073 | 8.62 | 48# | 0.00 |
| 85 | T | 123Triclproa | 0.7651 | 0.7579 | 0.94 | 52 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0653 | 0.0554 | 15.16 | 50# | 0.00 |
| 87 | T | n-Propylbenz | 3.3812 | 3.3295 | 1.53 | 51 | 0.00 |
| 88 | T | 2chlorotolue | 1.9962 | 1.8143 | 9.11 | 47# | 0.00 |
| 89 | T | 4chlorotolue | 2.3219 | 2.1931 | 5.55 | 49# | 0.00 |
| 90 | T | 135Trimebenz | 2.3169 | 2.1892 | 5.51 | 49# | 0.00 |
| 91 | T | tbutylbenzen | 1.9556 | 1.8726 | 4.24 | 50# | 0.00 |
| 92 | T | 124Trimetben | 2.2956 | 2.1381 | 6.86 | 48# | 0.00 |
| 93 | T | sbutylbenzen | 2.9515 | 2.7996 | 5.15 | 49# | 0.00 |
| 94 | T | 13Diclorbenz | 1.3063 | 1.1601 | 11.19 | 48# | 0.00 |
| 95 | T | pIsopropylto | 2.4866 | 2.3127 | 6.99 | 48# | 0.00 |
| 96 | T | 14dichlorobe | 1.3324 | 1.2657 | 5.01 | 51 | 0.00 |
| 97 | T | 12dichlorobe | 1.2228 | 1.0926 | 10.65 | 47# | 0.00 |
| 98 | T | nButylbenzen | 2.4380 | 2.3715 | 2.73 | 51 | 0.00 |
| 99 | T | 12dibromo3cl | 0.1301 | 0.1123 | 13.68 | 48# | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.8681 | 0.7036 | 18.95 | 44# | 0.00 |
| 101 | T | 124Trichlobe | 0.7354 | 0.6397 | 13.01 | 47# | 0.00 |
| 102 | T | Hexachlorobu | 0.4292 | 0.3323 | 22.58 | 43# | 0.00 |
| 103 | T | Naphthalene | 1.5734 | 1.3718 | 12.81 | 47# | 0.00 |
| 104 | T | 123Trichlben | 0.6291 | 0.5494 | 12.67 | 48# | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Wed Apr 09 11:59:32 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR0725\CCVF1.D  Vial: 27
Acq On : 7 Apr 2025 21:16  Operator: RLD-DGS
Sample : 2905984,CCVF,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 07 21:37:22 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 52 | 0.00 |
| 2 | T | Dichlorodi | 0.5000 | 0.4775 | 4.50 | 48 | -0.02 |
| 3 | PT | Chloromethan | 0.5000 | 0.3021 | 39.58 | 32 | 0.00 |
| 4 | CT | VinylChlorid | 0.5000 | 0.4931 | 1.38 | 48 | -0.01 |
| 5 | T | Bromomethane | 0.5000 | 0.9998 | -99.96# | 96 | 0.00 |
| 6 | T | Chloroethane | 0.5000 | 0.8177 | -63.54# | 91 | 0.00 |
| 7 | T | dichloroflmethane | 0.5000 | 0.9656 | -93.12# | 85 | 0.00 |
| 8 | T | Trichlorofma | 0.5000 | 0.7304 | -46.08 | 66 | 0.00 |
| 9 | T | Ethylether | 0.5000 | 0.3709 | 25.82 | 39 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.5000 | 0.4975 | 0.50 | 51 | 0.00 |
| 11 | T | propyleneoxide | 5.0000 | 3.3973 | 32.05 | 35 | 0.00 |
| 12 | T | Acrolein | 2.5000 | 1.8354 | 26.58 | 39 | 0.00 |
| 13 | CT | 11dichlorthe | 0.5000 | 0.4921 | 1.58 | 50 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 1.0000 | 1.0668 | -6.68 | 54 | 0.00 |
| 15 | T | Acetone | 5.0000 | 4.5760 | 8.48 | 47 | 0.00 |
| 16 | T | Iodomethane | 1.0000 | 1.4091 | -40.91 | 105 | 0.00 |
| 17 | T | Carbon Dislf | 1.0000 | 0.9325 | 6.75 | 50 | 0.00 |
| 18 | T | allylchloride | 1.0000 | 0.6380 | 36.20 | 33 | 0.00 |
| 19 | T | methylacetate | 0.5000 | 0.5871 | -17.42 | 58 | 0.00 |
| 20 | T | Methylchlorid | 0.5000 | 0.4543 | 9.14 | 51 | 0.00 |
| 21 | T | Acrylonitrile | 2.5000 | 1.6133 | 35.47 | 33 | 0.00 |
| 22 | T | t12dichlorte | 0.5000 | 0.4916 | 1.68 | 51 | 0.00 |
| 23 | T | tbutylalcohol | 25.0000 | 16.2238 | 35.10 | 34 | 0.00 |
| 24 | T | MtBE | 0.5000 | 0.4110 | 17.80 | 43 | 0.00 |
| 25 | T | Hexane | 1.0000 | 0.7152 | 28.48 | 36 | 0.00 |
| 26 | PT | 11dichlorota | 0.5000 | 0.4152 | 16.96 | 43 | 0.00 |
| 27 | T | Vinylacetate | 5.0000 | 1.7859 | 64.28# | 19 | 0.00 |
| 28 | T | chloroprene | 1.0000 | 0.7695 | 23.05 | 39 | 0.00 |
| 29 | T | Diisopether | 0.5000 | 0.3255 | 34.90 | 34 | 0.00 |
| 30 | T | ETBE | 0.5000 | 0.2477 | 50.46# | 24 | 0.00 |
| 31 | T | 22dichloropr | 0.5000 | 0.4102 | 17.96 | 45 | 0.00 |
| 32 | T | c12dichlorte | 0.5000 | 0.4981 | 0.38 | 52 | 0.00 |
| 33 | T | 2Butanone | 5.0000 | 5.2969 | -5.94 | 54 | 0.00 |
| 34 | T | propionitrile | 5.0000 | 3.3047 | 33.91 | 33 | 0.00 |
| 35 | T | Ethylacetate | 2.5000 | 2.6747 | -6.99 | 60 | 0.00 |
| 36 | T | methacrylonitrile | 1.0000 | 0.8437 | 15.63 | 42 | 0.00 |
| 37 | T | Bromochlorma | 0.5000 | 0.4886 | 2.28 | 51 | 0.00 |
| 38 | T | Tetrahydofur | 5.0000 | 3.0730 | 38.54 | 32 | 0.00 |
| 39 | CT | Chloroform | 0.5000 | 0.5157 | -3.14 | 53 | 0.00 |
| 40 | T | 111trichlota | 0.5000 | 0.5040 | -0.80 | 54 | 0.00 |
| 41 | S | SURRDibrflma | 1.0000 | 1.0366 | -3.66 | 55 | 0.00 |
| 42 | T | Cyclohexane | 0.5000 | 0.3581 | 28.38 | 36 | 0.00 |
| 43 | T | Carbtetraclo | 0.5000 | 0.5101 | -2.02 | 53 | 0.00 |
| 44 | T | 11dicloprope | 0.5000 | 0.5122 | -2.44 | 53 | 0.00 |
| 45 | S | SURR12DCAd4 | 1.0000 | 0.9770 | 2.30 | 52 | 0.00 |
| 46 | T | Benzene | 0.5000 | 0.4830 | 3.40 | 51 | 0.00 |
| 47 | T | 12dichlorota | 0.5000 | 0.4797 | 4.06 | 49 | 0.00 |
| 48 | T | TAME | 0.5000 | 0.2731 | 45.38 | 29 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.5000 | 0.4920 | 1.60 | 52 | 0.00 |
| 50 | T | methylcyclohexane | 0.5000 | 0.4701 | 5.98 | 47 | 0.00 |
| 51 | CT | 12dicloropra | 0.5000 | 0.4188 | 16.24 | 44 | 0.00 |
| 52 | T | 23dicl1propene | 0.5000 | 0.4526 | 9.48 | 46 | 0.00 |
| 53 | T | Dibromometha | 0.5000 | 0.5413 | -8.26 | 55 | 0.00 |
| 54 | T | methylmethacrylate | 0.5000 | 0.4083 | 18.34 | 42 | 0.00 |
| 55 | T | 14dioxane | 25.0000 | 23.5869 | 5.65 | 47 | -0.01 |
| 56 | T | Bromodiclrma | 0.5000 | 0.5103 | -2.06 | 52 | 0.00 |
| 57 | T | 2Nitropropane | 5.0000 | 4.2087 | 15.83 | 43 | 0.00 |
| 58 | T | c13dicloproe | 0.5000 | 0.4691 | 6.18 | 48 | 0.00 |
| 59 | T | 4Meth2Pentan | 5.0000 | 3.7516 | 24.97 | 37 | 0.00 |
| 60 | S | SURRd8Tolule | 1.0000 | 1.0505 | -5.05 | 55 | 0.00 |
| 61 | CT | Toluene | 0.5000 | 0.4658 | 6.84 | 48 | 0.00 |
| 62 | T | t13Dicloprop | 0.5000 | 0.4452 | 10.96 | 48 | 0.00 |
| 63 | T | ethylmethacrylate | 1.0000 | 0.8513 | 14.87 | 43 | 0.00 |
| 64 | T | 112Triclotha | 0.5000 | 0.4675 | 6.50 | 47 | 0.00 |
| 65 | T | Tetrachlorte | 0.5000 | 0.4427 | 11.46 | 48 | 0.00 |
| 66 | T | 13Diclorpropa | 0.5000 | 0.4619 | 7.62 | 47 | 0.00 |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 55 | 0.00 |
| 68 | T | 2Hexanone | 5.0000 | 3.6075 | 27.85 | 38 | 0.00 |
| 69 | T | Clorodibrmta | 0.5000 | 0.4364 | 12.72 | 47 | 0.00 |
| 70 | T | 12Dibrometha | 0.5000 | 0.4381 | 12.38 | 47 | 0.00 |
| 71 | PT | Chlorobenzen | 0.5000 | 0.4534 | 9.32 | 50 | 0.00 |
| 72 | T | 1Clhexane | 0.5000 | 0.4179 | 16.42 | 48 | 0.00 |
| 73 | T | 1112Tetclota | 0.5000 | 0.4571 | 8.58 | 51 | 0.00 |
| 74 | CT | Ethylbenzene | 0.5000 | 0.4639 | 7.22 | 51 | 0.00 |
| 75 | T | m p-Xylene | 1.0000 | 0.8875 | 11.25 | 49 | 0.00 |
| 76 | T | o-Xylene | 0.5000 | 0.4489 | 10.22 | 51 | 0.00 |
| 77 | T | Styrene | 0.5000 | 0.4416 | 11.68 | 47 | 0.00 |
| 78 | PT | Bromoform | 0.5000 | 0.4329 | 13.42 | 48 | 0.00 |
| 79 | T | Isopropylben | 0.5000 | 0.4443 | 11.14 | 49 | 0.00 |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 53 | 0.00 |
| 81 | T | cyclohexanone | 10.0000 | 11.7158 | -17.16 | 58 | -0.01 |
| 82 | S | SURR4BrFBenz | 1.0000 | 0.9812 | 1.88 | 52 | 0.00 |
| 83 | T | Bromobenzene | 0.5000 | 0.4371 | 12.58 | 48 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.5000 | 0.4569 | 8.62 | 48 | 0.00 |
| 85 | T | 123Triclproa | 0.5000 | 0.4953 | 0.94 | 52 | 0.00 |
| 86 | T | 14dichloro2butene | 0.5000 | 0.4242 | 15.16 | 50 | 0.00 |
| 87 | T | n-Propylbenz | 0.5000 | 0.4924 | 1.52 | 51 | 0.00 |
| 88 | T | 2chlorotolue | 0.5000 | 0.4544 | 9.12 | 47 | 0.00 |
| 89 | T | 4chlorotolue | 0.5000 | 0.4723 | 5.54 | 49 | 0.00 |
| 90 | T | 135Trimebenz | 0.5000 | 0.4724 | 5.52 | 49 | 0.00 |
| 91 | T | tbutylbenzen | 0.5000 | 0.4788 | 4.24 | 50 | 0.00 |
| 92 | T | 124Trimetben | 0.5000 | 0.4657 | 6.86 | 48 | 0.00 |
| 93 | T | sbutylbenzen | 0.5000 | 0.4743 | 5.14 | 49 | 0.00 |
| 94 | T | 13Diclorbenz | 0.5000 | 0.4440 | 11.20 | 48 | 0.00 |
| 95 | T | pIsopropylto | 0.5000 | 0.4650 | 7.00 | 48 | 0.00 |
| 96 | T | 14dichlorobe | 0.5000 | 0.4750 | 5.00 | 51 | 0.00 |
| 97 | T | 12dichlorobe | 0.5000 | 0.4468 | 10.64 | 47 | 0.00 |
| 98 | T | nButylbenzen | 0.5000 | 0.4864 | 2.72 | 51 | 0.00 |
| 99 | T | 12dibromo3cl | 0.5000 | 0.4316 | 13.68 | 48 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.5000 | 0.4052 | 18.96 | 44 | 0.00 |
| 101 | T | 124Trichlobe | 0.5000 | 0.4349 | 13.02 | 47 | 0.00 |
| 102 | T | Hexachlorobu | 0.5000 | 0.3871 | 22.58 | 43 | 0.00 |
| 103 | T | Naphthalene | 0.5000 | 0.4359 | 12.82 | 47 | 0.00 |
| 104 | T | 123Trichlben | 0.5000 | 0.4366 | 12.68 | 48 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Wed Apr 09 11:59:14 2025

Quantitation Report

Data File : C:\Instarch\Data\APR0725\CCVF1.D Vial: 27
Acq On : 7 Apr 2025 21:16 Operator: RLD-DGS
Sample : 2905984,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 21:37:22 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 636900 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 518971 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 254640 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 177850 | 1.037 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 104 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 40089 | 0.977 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 659981 | 1.051 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 105 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 240162 | 0.981 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 86266 | 0.4775 | mg/kg | 97 |
| 3) Chloromethan | 2.20 | 50 | 77585 | 0.3021 | mg/kg | 93 |
| 4) VinylChlorid | 2.36 | 62 | 109449 | 0.4931 | mg/kg | 92 |
| 5) Bromomethane | 2.83 | 94 | 72321 | 0.9998 | mg/kg | 90 |
| 6) Chloroethane | 2.98 | 64 | 33214 | 0.8177 | mg/kg | 94 |
| 7) dichloroflmethane | 3.29 | 67 | 251265 | 0.9656 | mg/kg | 98 |
| 8) Trichlorofma | 3.35 | 101 | 194732 | 0.7304 | mg/kg | 99 |
| 9) Ethylether | 3.89 | 59 | 56478 | 0.3709 | mg/kg | 84 |
| 10) dichlorotfluoroethan | 3.86 | 67 | 90473 | 0.4975 | mg/kg | 98 |
| 11) propyleneoxide | 4.11 | 58 | 97751 | 3.3973 | mg/kg | 94 |
| 12) Acrolein | 4.01 | 56 | 64595 | 1.8354 | mg/kg | 93 |
| 13) 11dichlorthe | 4.12 | 96 | 73252 | 0.4921 | mg/kg | 88 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 150901 | 1.0668 | mg/kg | 96 |
| 15) Acetone | 4.27 | 43 | 337707 | 4.5760 | mg/kg | 99 |
| 16) Iodomethane | 4.31 | 127 | 70300 | 1.4091 | mg/kg# | 85 |
| 17) Carbon Dislf | 4.40 | 76 | 357337 | 0.9325 | mg/kg | 98 |
| 18) allylchloride | 4.63 | 41 | 150005 | 0.6380 | mg/kg# | 68 |
| 19) methylacetate | 4.72 | 74 | 73064 | 0.5871 | mg/kg | 93 |
| 20) Methylchlorid | 4.80 | 84 | 81149 | 0.4543 | mg/kg# | 78 |
| 21) Acrylonitrile | 5.11 | 53 | 121701 | 1.6133 | mg/kg | 98 |
| 22) t12dichlorte | 5.17 | 96 | 78206 | 0.4916 | mg/kg# | 87 |
| 23) tbutylalcohol | 5.11 | 59 | 245412 | 16.2238 | mg/kg | 98 |
| 24) MtBE | 5.25 | 73 | 142152 | 0.4110 | mg/kg | 97 |
| 25) Hexane | 5.57 | 57 | 184210 | 0.7152 | mg/kg | 98 |
| 26) 11dichlorota | 5.70 | 63 | 136476 | 0.4152 | mg/kg | 92 |
| 27) Vinylacetate | 5.81 | 43 | 474517 | 1.7859 | mg/kg | 91 |
| 28) chloroprene | 5.84 | 53 | 196219 | 0.7695 | mg/kg | 85 |
| 29) Diisopether | 5.89 | 45 | 177259 | 0.3255 | mg/kg | 81 |
| 30) ETBE | 6.35 | 59 | 51600 | 0.2477 | mg/kg | 89 |
| 31) 22dichloropr | 6.45 | 77 | 92935 | 0.4102 | mg/kg | 98 |
| 32) c12dichlorte | 6.45 | 96 | 87289 | 0.4981 | mg/kg# | 83 |
| 33) 2Butanone | 6.50 | 72 | 105854 | 5.2969 | mg/kg | 88 |
| 34) propionitrile | 6.53 | 54 | 96775 | 3.3047 | mg/kg | 96 |
| 35) Ethylacetate | 6.59 | 88 | 10508 | 2.6747 | mg/kg# | 18 |
| 36) methacrylonitrile | 6.72 | 67 | 55773 | 0.8437 | mg/kg# | 76 |
| 37) Bromochlorma | 6.74 | 128 | 37905 | 0.4886 | mg/kg# | 75 |
| 38) Tetrahydofur | 6.88 | 42 | 176754 | 3.0730 | mg/kg | 74 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0725\CCVF1.D  Vial: 27
Acq On : 7 Apr 2025 21:16  Operator: RLD-DGS
Sample : 2905984,CCVF,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 21:37:22 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 148081 | 0.5157 | mg/kg | 100 |
| 40) | 111trichlota | 7.10 | 97 | 126002 | 0.5040 | mg/kg | 97 |
| 42) | Cyclohexane | 7.19 | 56 | 107130 | 0.3581 | mg/kg# | 76 |
| 43) | Carbtetraclo | 7.31 | 119 | 108799 | 0.5101 | mg/kg | 96 |
| 44) | 11dicloprope | 7.30 | 110 | 38824 | 0.5122 | mg/kg | 91 |
| 46) | Benzene | 7.55 | 78 | 308849 | 0.4830 | mg/kg | 96 |
| 47) | 12dichlorota | 7.55 | 62 | 112936 | 0.4797 | mg/kg | 99 |
| 48) | TAME | 7.76 | 73 | 28534 | 0.2731 | mg/kg | 88 |
| 49) | trichloroete | 8.37 | 95 | 83596 | 0.4920 | mg/kg | 95 |
| 50) | methylcyclohexane | 8.64 | 83 | 121469 | 0.4701 | mg/kg# | 84 |
| 51) | 12dicloropra | 8.62 | 63 | 82966 | 0.4188 | mg/kg | 87 |
| 52) | 23dicl1propene | 8.68 | 75 | 112415 | 0.4526 | mg/kg | 97 |
| 53) | Dibromometha | 8.76 | 93 | 54001 | 0.5413 | mg/kg | 92 |
| 54) | methylmethacrylate | 8.80 | 69 | 40707 | 0.4083 | mg/kg | 91 |
| 55) | 14dioxane | 8.85 | 88 | 45563 | 23.5869 | mg/kg | 81 |
| 56) | Bromodiclrma | 8.96 | 83 | 110548 | 0.5103 | mg/kg | 97 |
| 57) | 2Nitropropane | 9.23 | 43 | 215534 | 4.2087 | mg/kg | 87 |
| 58) | c13dicloproe | 9.54 | 75 | 117372 | 0.4691 | mg/kg | 98 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 566353 | 3.7516 | mg/kg | 99 |
| 61) | Toluene | 10.00 | 92 | 182280 | 0.4658 | mg/kg | 92 |
| 62) | t13Dicloprop | 10.25 | 75 | 96985 | 0.4452 | mg/kg | 98 |
| 63) | ethylmethacrylate | 10.42 | 69 | 140835 | 0.8513 | mg/kg | 85 |
| 64) | 112Triclotha | 10.50 | 83 | 56754 | 0.4675 | mg/kg | 97 |
| 65) | Tetrachlorte | 10.75 | 166 | 77541 | 0.4427 | mg/kg | 97 |
| 66) | 13Diclorpropa | 10.72 | 76 | 110121 | 0.4619 | mg/kg | 99 |
| 68) | 2Hexanone | 10.86 | 43 | 419485 | 3.6075 | mg/kg | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 73721 | 0.4364 | mg/kg | 98 |
| 70) | 12Dibrometha | 11.18 | 107 | 69757 | 0.4381 | mg/kg | 96 |
| 71) | Chlorobenzen | 11.88 | 112 | 211837 | 0.4534 | mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 95753 | 0.4179 | mg/kg | 87 |
| 73) | 1112Tetclota | 11.98 | 131 | 73314 | 0.4571 | mg/kg | 99 |
| 74) | Ethylbenzene | 12.04 | 91 | 358573 | 0.4639 | mg/kg | 97 |
| 75) | m p-Xylene | 12.20 | 106 | 267635 | 0.8875 | mg/kg | 98 |
| 76) | o-Xylene | 12.75 | 106 | 127841 | 0.4489 | mg/kg | 94 |
| 77) | Styrene | 12.76 | 104 | 198673 | 0.4416 | mg/kg | 96 |
| 78) | Bromoform | 13.00 | 173 | 45157 | 0.4329 | mg/kg | 98 |
| 79) | Isopropylben | 13.28 | 105 | 326647 | 0.4443 | mg/kg | 98 |
| 81) | cyclohexanone | 13.38 | 55 | 228253 | 11.7158 | mg/kg | 84 |
| 83) | Bromobenzene | 13.69 | 156 | 76228 | 0.4371 | mg/kg | 99 |
| 84) | 1122Tetrclta | 13.65 | 83 | 90055 | 0.4569 | mg/kg | 94 |
| 85) | 123Triclproa | 13.71 | 75 | 96496 | 0.4953 | mg/kg | 96 |
| 86) | 14dichloro2butene | 13.73 | 53 | 7051 | 0.4242 | mg/kg | 91 |
| 87) | n-Propylbenz | 13.86 | 91 | 423916 | 0.4924 | mg/kg | 98 |
| 88) | 2chlorotolue | 13.98 | 91 | 230992 | 0.4544 | mg/kg | 96 |
| 89) | 4chlorotolue | 14.13 | 91 | 279223 | 0.4723 | mg/kg | 98 |
| 90) | 135Trimebenz | 14.12 | 105 | 278733 | 0.4724 | mg/kg | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 238416 | 0.4788 | mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 272226 | 0.4657 | mg/kg | 95 |
| 93) | sbutylbenzen | 14.91 | 105 | 356440 | 0.4743 | mg/kg | 99 |
| 94) | 13Diclorbenz | 15.06 | 146 | 147702 | 0.4440 | mg/kg | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 294452 | 0.4650 | mg/kg | 99 |
| 96) | 14dichlorobe | 15.18 | 146 | 161147 | 0.4750 | mg/kg | 98 |
| 97) | 12dichlorobe | 15.72 | 146 | 139115 | 0.4468 | mg/kg | 97 |
| 98) | nButylbenzen | 15.73 | 91 | 301940 | 0.4864 | mg/kg | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 14294 | 0.4316 | mg/kg | 93 |
| 100) | 135Trichlorobenzene | 17.13 | 180 | 89576 | 0.4052 | mg/kg | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 81451 | 0.4349 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0725\CCVF1.D Vial: 27
Acq On : 7 Apr 2025 21:16 Operator: RLD-DGS
Sample : 2905984,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 21:37:22 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 42308 | 0.3871 | mg/kg | 99 |
| 103) Naphthalene | 18.25 | 128 | 174658 | 0.4359 | mg/kg | 96 |
| 104) 123Trichlben | 18.55 | 180 | 69952 | 0.4366 | mg/kg | 98 |

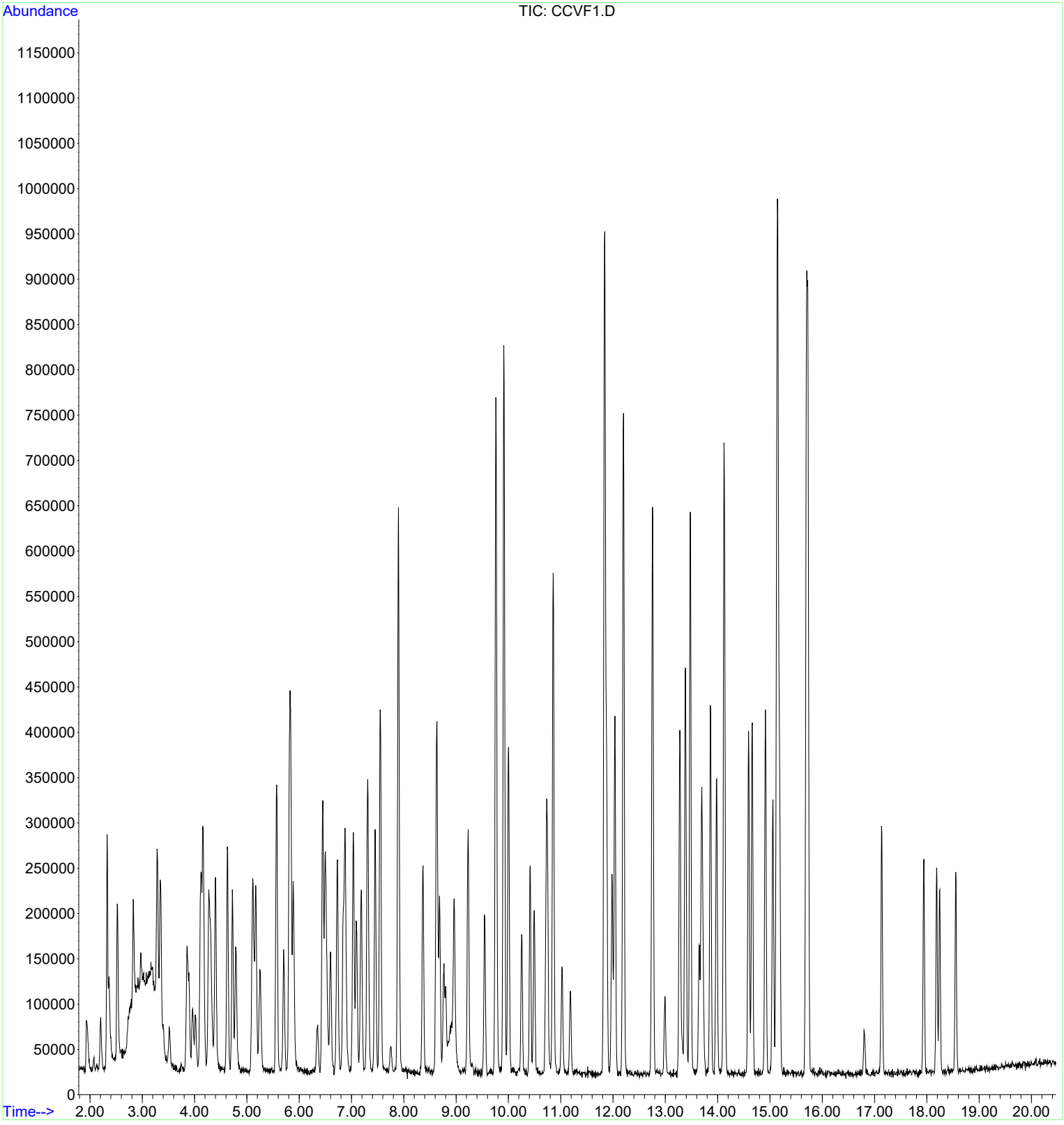
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0725\CCVF1.D  Vial: 27
Acq On : 7 Apr 2025 21:16  Operator: RLD-DGS
Sample : 2905984,CCVF,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 21:37:22 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Data File : C:\Instarch\Data\APR0825\BFB1.D  Vial: 1
Acq On : 8 Apr 2025 8:52  Operator: RLD-DGS
Sample : 290622,BFB,  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.926 to 4.936 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.5 | 4946 | PASS |
| 75 | 95 | 30 | 60 | 54.3 | 11939 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 21970 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 1478 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 66.6 | 14625 | PASS |
| 175 | 174 | 5 | 9 | 8.5 | 1248 | PASS |
| 176 | 174 | 95 | 101 | 100.5 | 14693 | PASS |
| 177 | 176 | 5 | 9 | 7.1 | 1048 | PASS |

PS032525.M Wed Apr 09 12:17:54 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR0825\CCV1.D  Vial: 3
Acq On : 8 Apr 2025 9:35  Operator: RLD-DGS
Sample : 290622,CCV,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 08 10:17:54 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 90 | 0.00 |
| 2 | T | Dichlorodi | 0.2836 | 0.2756 | 2.82 | 85 | -0.02 |
| 3 | PT | Chloromethan | 0.4032 | 0.3455 | 14.31 | 78 | 0.00 |
| 4 | CT | VinylChlorid | 0.3485 | 0.2986 | 14.32 | 72 | -0.01 |
| 5 | T | Bromomethane | 0.1423 | 0.1291 | 9.28 | 95 | 0.00 |
| 6 | T | Chloroethane | 0.0638 | 0.0588 | 7.84 | 89 | -0.02 |
| 7 | T | dichloroflmethane | 0.3862 | 0.4651 | -20.43# | 87 | 0.00 |
| 8 | T | Trichlorofma | 0.4186 | 0.4775 | -14.07 | 90 | 0.00 |
| 9 | T | Ethylether | 0.2391 | 0.2239 | 6.36 | 86 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2855 | 0.2731 | 4.34 | 85 | 0.00 |
| 11 | T | propyleneoxide | 0.0452 | 0.0315 | 30.31# | 62 | 0.00 |
| 12 | T | Acrolein | 0.0553 | 0.0485 | 12.30 | 81 | 0.00 |
| 13 | CT | 11dichlorthe | 0.2337 | 0.2283 | 2.31 | 87 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.2221 | 0.2311 | -4.05 | 91 | 0.00 |
| 15 | T | Acetone | 0.1159 | 0.1285 | -10.87 | 99 | 0.00 |
| 16 | T | Iodomethane | 0.0999 | 0.1063 | -6.41 | 176 | 0.00 |
| 17 | T | Carbon Dislf | 0.6017 | 0.5734 | 4.70 | 88 | 0.00 |
| 18 | T | allylchloride | 0.3692 | 0.2656 | 28.06# | 65 | 0.00 |
| 19 | T | methylacetate | 0.1954 | 0.1403 | 28.20# | 61 | 0.00 |
| 20 | T | Methylchlorid | 0.2805 | 0.2640 | 5.88 | 91 | 0.00 |
| 21 | T | Acrylonitrile | 0.1184 | 0.1098 | 7.26 | 82 | 0.00 |
| 22 | T | t12dichlorte | 0.2498 | 0.2528 | -1.20 | 92 | 0.00 |
| 23 | T | tbutylalcohol | 0.0238 | 0.0170 | 28.57# | 65 | 0.00 |
| 24 | T | MtBE | 0.5430 | 0.4594 | 15.40 | 77 | 0.00 |
| 25 | T | Hexane | 0.4044 | 0.3215 | 20.50# | 69 | 0.00 |
| 26 | PT | 11dichlorota | 0.5161 | 0.4565 | 11.55 | 79 | 0.00 |
| 27 | T | Vinylacetate | 0.4172 | 0.4014 | 3.79 | 91 | 0.00 |
| 28 | T | chloroprene | 0.4004 | 0.3480 | 13.09 | 76 | 0.00 |
| 29 | T | Diisopether | 0.8551 | 0.6965 | 18.55 | 73 | 0.00 |
| 30 | T | ETBE | 0.3843 | 0.1689 | 56.05# | 44# | -0.01 |
| 31 | T | 22dichloropr | 0.3557 | 0.3199 | 10.06 | 85 | 0.00 |
| 32 | T | c12dichlorte | 0.2751 | 0.2728 | 0.84 | 90 | 0.00 |
| 33 | T | 2Butanone | 0.0314 | 0.0369 | -17.52 | 103 | 0.00 |
| 34 | T | propionitrile | 0.0460 | 0.0344 | 25.22# | 66 | -0.01 |
| 35 | T | Ethylacetate | 0.0062 | 0.0059# | 4.84 | 93 | 0.00 |
| 36 | T | methacrylonitrile | 0.1038 | 0.0968 | 6.74 | 81 | 0.00 |
| 37 | T | Bromochlorma | 0.1218 | 0.1231 | -1.07 | 91 | 0.00 |
| 38 | T | Tetrahydofur | 0.0903 | 0.0619 | 31.45# | 62 | -0.01 |
| 39 | CT | Chloroform | 0.4508 | 0.4702 | -4.30 | 93 | 0.00 |
| 40 | T | 111trichlota | 0.3926 | 0.4114 | -4.79 | 97 | 0.00 |
| 41 | S | SURRDibrflma | 0.2694 | 0.2815 | -4.49 | 95 | 0.00 |
| 42 | T | Cyclohexane | 0.4697 | 0.3956 | 15.78 | 74 | 0.00 |
| 43 | T | Carbtetraclo | 0.3349 | 0.3602 | -7.55 | 96 | 0.00 |
| 44 | T | 11dicloprope | 0.1190 | 0.1231 | -3.45 | 92 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0644 | 0.0662 | -2.80 | 95 | 0.00 |
| 46 | T | Benzene | 1.0039 | 0.9875 | 1.63 | 89 | 0.00 |
| 47 | T | 12dichlorota | 0.3696 | 0.3703 | -0.19 | 89 | 0.00 |
| 48 | T | TAME | 0.2100 | 0.0898 | 57.24# | 50# | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.2668 | 0.2687 | -0.71 | 93 | 0.00 |
| 50 | T | methylcyclohexane | 0.4057 | 0.4119 | -1.53 | 88 | 0.00 |
| 51 | CT | 12dicloropra | 0.3110 | 0.2624 | 15.63 | 78 | 0.00 |
| 52 | T | 23dicl1propene | 0.3900 | 0.3820 | 2.05 | 86 | 0.00 |
| 53 | T | Dibromometha | 0.1566 | 0.1710 | -9.20 | 97 | 0.00 |
| 54 | T | methylmethacrylate | 0.1566 | 0.1451 | 7.34 | 83 | 0.00 |
| 55 | T | 14dioxane | 0.0030 | 0.0031# | -3.33 | 88 | 0.00 |
| 56 | T | Bromodiclrma | 0.3401 | 0.3544 | -4.20 | 93 | 0.00 |
| 57 | T | 2Nitropropane | 0.0804 | 0.0702 | 12.69 | 77 | 0.00 |
| 58 | T | c13dicloproe | 0.3929 | 0.3767 | 4.12 | 85 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.2370 | 0.1903 | 19.70 | 68 | 0.00 |
| 60 | S | SURRd8Tolule | 0.9864 | 1.0191 | -3.32 | 93 | 0.00 |
| 61 | CT | Toluene | 0.6144 | 0.6312 | -2.73 | 92 | 0.00 |
| 62 | T | t13Dicloprop | 0.3420 | 0.3299 | 3.54 | 90 | 0.00 |
| 63 | T | ethylmethacrylate | 0.2598 | 0.2519 | 3.04 | 85 | 0.00 |
| 64 | T | 112Triclotha | 0.1906 | 0.1976 | -3.67 | 91 | 0.00 |
| 65 | T | Tetrachlorte | 0.2750 | 0.2569 | 6.58 | 88 | 0.00 |
| 66 | T | 13Diclorpropa | 0.3743 | 0.3663 | 2.14 | 87 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 97 | 0.00 |
| 68 | T | 2Hexanone | 0.2241 | 0.1868 | 16.64 | 77 | -0.01 |
| 69 | T | Clorodibrmta | 0.3255 | 0.3197 | 1.78 | 93 | 0.00 |
| 70 | T | 12Dibrometha | 0.3068 | 0.2935 | 4.34 | 91 | 0.00 |
| 71 | PT | Chlorobenzen | 0.9004 | 0.8685 | 3.54 | 93 | 0.00 |
| 72 | T | 1Clhexane | 0.4415 | 0.3917 | 11.28 | 89 | 0.00 |
| 73 | T | 1112Tetclota | 0.3091 | 0.3011 | 2.59 | 95 | 0.00 |
| 74 | CT | Ethylbenzene | 1.4895 | 1.4361 | 3.59 | 93 | 0.00 |
| 75 | T | m p-Xylene | 0.5811 | 0.5534 | 4.77 | 93 | 0.00 |
| 76 | T | o-Xylene | 0.5487 | 0.5299 | 3.43 | 95 | 0.00 |
| 77 | T | Styrene | 0.8669 | 0.8243 | 4.91 | 89 | 0.00 |
| 78 | PT | Bromoform | 0.2010 | 0.2026 | -0.80 | 98 | 0.00 |
| 79 | T | Isopropylben | 1.4165 | 1.3507 | 4.65 | 92 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 97 | 0.00 |
| 81 | T | cyclohexanone | 0.0765 | 0.1013 | -32.42# | 121 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.9612 | 0.9842 | -2.39 | 100 | 0.00 |
| 83 | T | Bromobenzene | 0.6849 | 0.6550 | 4.37 | 96 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.7740 | 0.7313 | 5.52 | 91 | 0.00 |
| 85 | T | 123Triclproa | 0.7651 | 0.7378 | 3.57 | 94 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0653 | 0.0679 | -3.98 | 111 | 0.00 |
| 87 | T | n-Propylbenz | 3.3812 | 3.2899 | 2.70 | 93 | 0.00 |
| 88 | T | 2chlorotolue | 1.9962 | 1.9072 | 4.46 | 91 | 0.00 |
| 89 | T | 4chlorotolue | 2.3219 | 2.3184 | 0.15 | 95 | 0.00 |
| 90 | T | 135Trimebenz | 2.3169 | 2.2934 | 1.01 | 93 | 0.00 |
| 91 | T | tbutylbenzen | 1.9556 | 1.8735 | 4.20 | 91 | 0.00 |
| 92 | T | 124Trimetben | 2.2956 | 2.2594 | 1.58 | 93 | 0.00 |
| 93 | T | sbutylbenzen | 2.9515 | 2.9461 | 0.18 | 94 | 0.00 |
| 94 | T | 13Diclorbenz | 1.3063 | 1.2486 | 4.42 | 95 | 0.00 |
| 95 | T | pIsopropylto | 2.4866 | 2.4278 | 2.36 | 92 | 0.00 |
| 96 | T | 14dichlorobe | 1.3324 | 1.2793 | 3.99 | 94 | 0.00 |
| 97 | T | 12dichlorobe | 1.2228 | 1.1731 | 4.06 | 93 | 0.00 |
| 98 | T | nButylbenzen | 2.4380 | 2.4178 | 0.83 | 96 | 0.00 |
| 99 | T | 12dibromo3cl | 0.1301 | 0.1154 | 11.30 | 90 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.8681 | 0.7845 | 9.63 | 90 | 0.00 |
| 101 | T | 124Trichlobe | 0.7354 | 0.6468 | 12.05 | 87 | 0.00 |
| 102 | T | Hexachlorobu | 0.4292 | 0.3605 | 16.01 | 86 | 0.00 |
| 103 | T | Naphthalene | 1.5734 | 1.3948 | 11.35 | 87 | 0.00 |
| 104 | T | 123Trichlben | 0.6291 | 0.5733 | 8.87 | 92 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Wed Apr 09 12:19:18 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR0825\CCV1.D  Vial: 3
Acq On : 8 Apr 2025 9:35  Operator: RLD-DGS
Sample : 290622,CCV,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 08 10:17:54 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 90 | 0.00 |
| 2 | T | Dichlorodi | 0.5000 | 0.4859 | 2.82 | 85 | -0.02 |
| 3 | PT | Chloromethan | 0.5000 | 0.4285 | 14.30 | 78 | 0.00 |
| 4 | CT | VinylChlorid | 0.5000 | 0.4284 | 14.32 | 72 | -0.01 |
| 5 | T | Bromomethane | 0.5000 | 0.5186 | -3.72 | 95 | 0.00 |
| 6 | T | Chloroethane | 0.5000 | 0.4613 | 7.74 | 89 | -0.02 |
| 7 | T | dichloroflmethane | 0.5000 | 0.5619 | -12.38 | 87 | 0.00 |
| 8 | T | Trichlorofma | 0.5000 | 0.5703 | -14.06 | 90 | 0.00 |
| 9 | T | Ethylether | 0.5000 | 0.4683 | 6.34 | 86 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.5000 | 0.4782 | 4.36 | 85 | 0.00 |
| 11 | T | propyleneoxide | 5.0000 | 3.4851 | 30.30# | 62 | 0.00 |
| 12 | T | Acrolein | 2.5000 | 2.1925 | 12.30 | 81 | 0.00 |
| 13 | CT | 11dichlorthe | 0.5000 | 0.4885 | 2.30 | 87 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 1.0000 | 1.0405 | -4.05 | 91 | 0.00 |
| 15 | T | Acetone | 5.0000 | 5.5451 | -10.90 | 99 | 0.00 |
| 16 | T | Iodomethane | 1.0000 | 1.3616 | -36.16# | 176 | 0.00 |
| 17 | T | Carbon Dislf | 1.0000 | 0.9530 | 4.70 | 88 | 0.00 |
| 18 | T | allylchloride | 1.0000 | 0.7194 | 28.06# | 65 | 0.00 |
| 19 | T | methylacetate | 0.5000 | 0.3589 | 28.22# | 61 | 0.00 |
| 20 | T | Methylchlorid | 0.5000 | 0.4707 | 5.86 | 91 | 0.00 |
| 21 | T | Acrylonitrile | 2.5000 | 2.3176 | 7.30 | 82 | 0.00 |
| 22 | T | t12dichlorte | 0.5000 | 0.5060 | -1.20 | 92 | 0.00 |
| 23 | T | tbutylalcohol | 25.0000 | 17.8472 | 28.61# | 65 | 0.00 |
| 24 | T | MtBE | 0.5000 | 0.4230 | 15.40 | 77 | 0.00 |
| 25 | T | Hexane | 1.0000 | 0.7950 | 20.50# | 69 | 0.00 |
| 26 | PT | 11dichlorota | 0.5000 | 0.4423 | 11.54 | 79 | 0.00 |
| 27 | T | Vinylacetate | 5.0000 | 4.8113 | 3.77 | 91 | 0.00 |
| 28 | T | chloroprene | 1.0000 | 0.8692 | 13.08 | 76 | 0.00 |
| 29 | T | Diisopether | 0.5000 | 0.4072 | 18.56 | 73 | 0.00 |
| 30 | T | ETBE | 0.5000 | 0.2571 | 48.58# | 44 | -0.01 |
| 31 | T | 22dichloropr | 0.5000 | 0.4496 | 10.08 | 85 | 0.00 |
| 32 | T | c12dichlorte | 0.5000 | 0.4957 | 0.86 | 90 | 0.00 |
| 33 | T | 2Butanone | 5.0000 | 5.8837 | -17.67 | 103 | 0.00 |
| 34 | T | propionitrile | 5.0000 | 3.7453 | 25.09# | 66 | -0.01 |
| 35 | T | Ethylacetate | 2.5000 | 2.3868 | 4.53 | 93 | 0.00 |
| 36 | T | methacrylonitrile | 1.0000 | 0.9331 | 6.69 | 81 | 0.00 |
| 37 | T | Bromochlorma | 0.5000 | 0.5051 | -1.02 | 91 | 0.00 |
| 38 | T | Tetrahydofur | 5.0000 | 3.4256 | 31.49# | 62 | -0.01 |
| 39 | CT | Chloroform | 0.5000 | 0.5214 | -4.28 | 93 | 0.00 |
| 40 | T | 111trichlota | 0.5000 | 0.5240 | -4.80 | 97 | 0.00 |
| 41 | S | SURRDibrflma | 1.0000 | 1.0450 | -4.50 | 95 | 0.00 |
| 42 | T | Cyclohexane | 0.5000 | 0.4211 | 15.78 | 74 | 0.00 |
| 43 | T | Carbtetraclo | 0.5000 | 0.5377 | -7.54 | 96 | 0.00 |
| 44 | T | 11dicloprope | 0.5000 | 0.5171 | -3.42 | 92 | 0.00 |
| 45 | S | SURR12DCAd4 | 1.0000 | 1.0278 | -2.78 | 95 | 0.00 |
| 46 | T | Benzene | 0.5000 | 0.4918 | 1.64 | 89 | 0.00 |
| 47 | T | 12dichlorota | 0.5000 | 0.5009 | -0.18 | 89 | 0.00 |
| 48 | T | TAME | 0.5000 | 0.2736 | 45.28# | 50 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.5000 | 0.5035 | -0.70 | 93 | 0.00 |
| 50 | T | methylcyclohexane | 0.5000 | 0.5076 | -1.52 | 88 | 0.00 |
| 51 | CT | 12dicloropra | 0.5000 | 0.4219 | 15.62 | 78 | 0.00 |
| 52 | T | 23dicl1propene | 0.5000 | 0.4898 | 2.04 | 86 | 0.00 |
| 53 | T | Dibromometha | 0.5000 | 0.5459 | -9.18 | 97 | 0.00 |
| 54 | T | methylmethacrylate | 0.5000 | 0.4635 | 7.30 | 83 | 0.00 |
| 55 | T | 14dioxane | 25.0000 | 25.6304 | -2.52 | 88 | 0.00 |
| 56 | T | Bromodiclrma | 0.5000 | 0.5210 | -4.20 | 93 | 0.00 |
| 57 | T | 2Nitropropane | 5.0000 | 4.3681 | 12.64 | 77 | 0.00 |
| 58 | T | c13dicloproe | 0.5000 | 0.4794 | 4.12 | 85 | 0.00 |
| 59 | T | 4Meth2Pentan | 5.0000 | 4.0148 | 19.70 | 68 | 0.00 |
| 60 | S | SURRd8Tolule | 1.0000 | 1.0331 | -3.31 | 93 | 0.00 |
| 61 | CT | Toluene | 0.5000 | 0.5137 | -2.74 | 92 | 0.00 |
| 62 | T | t13Dicloprop | 0.5000 | 0.4823 | 3.54 | 90 | 0.00 |
| 63 | T | ethylmethacrylate | 1.0000 | 0.9696 | 3.04 | 85 | 0.00 |
| 64 | T | 112Triclotha | 0.5000 | 0.5183 | -3.66 | 91 | 0.00 |
| 65 | T | Tetrachlorte | 0.5000 | 0.4670 | 6.60 | 88 | 0.00 |
| 66 | T | 13Diclorpropa | 0.5000 | 0.4893 | 2.14 | 87 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 97 | 0.00 |
| 68 | T | 2Hexanone | 5.0000 | 4.1686 | 16.63 | 77 | -0.01 |
| 69 | T | Clorodibrmta | 0.5000 | 0.4910 | 1.80 | 93 | 0.00 |
| 70 | T | 12Dibrometha | 0.5000 | 0.4782 | 4.36 | 91 | 0.00 |
| 71 | PT | Chlorobenzen | 0.5000 | 0.4823 | 3.54 | 93 | 0.00 |
| 72 | T | 1Clhexane | 0.5000 | 0.4436 | 11.28 | 89 | 0.00 |
| 73 | T | 1112Tetclota | 0.5000 | 0.4872 | 2.56 | 95 | 0.00 |
| 74 | CT | Ethylbenzene | 0.5000 | 0.4821 | 3.58 | 93 | 0.00 |
| 75 | T | m p-Xylene | 1.0000 | 0.9524 | 4.76 | 93 | 0.00 |
| 76 | T | o-Xylene | 0.5000 | 0.4829 | 3.42 | 95 | 0.00 |
| 77 | T | Styrene | 0.5000 | 0.4755 | 4.90 | 89 | 0.00 |
| 78 | PT | Bromoform | 0.5000 | 0.5040 | -0.80 | 98 | 0.00 |
| 79 | T | Isopropylben | 0.5000 | 0.4768 | 4.64 | 92 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 97 | 0.00 |
| 81 | T | cyclohexanone | 10.0000 | 13.2407 | -32.41# | 121 | 0.00 |
| 82 | S | SURR4BrFBenz | 1.0000 | 1.0238 | -2.38 | 100 | 0.00 |
| 83 | T | Bromobenzene | 0.5000 | 0.4782 | 4.36 | 96 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.5000 | 0.4724 | 5.52 | 91 | 0.00 |
| 85 | T | 123Triclproa | 0.5000 | 0.4822 | 3.56 | 94 | 0.00 |
| 86 | T | 14dichloro2butene | 0.5000 | 0.5198 | -3.96 | 111 | 0.00 |
| 87 | T | n-Propylbenz | 0.5000 | 0.4865 | 2.70 | 93 | 0.00 |
| 88 | T | 2chlorotolue | 0.5000 | 0.4777 | 4.46 | 91 | 0.00 |
| 89 | T | 4chlorotolue | 0.5000 | 0.4992 | 0.16 | 95 | 0.00 |
| 90 | T | 135Trimebenz | 0.5000 | 0.4949 | 1.02 | 93 | 0.00 |
| 91 | T | tbutylbenzen | 0.5000 | 0.4790 | 4.20 | 91 | 0.00 |
| 92 | T | 124Trimetben | 0.5000 | 0.4921 | 1.58 | 93 | 0.00 |
| 93 | T | sbutylbenzen | 0.5000 | 0.4991 | 0.18 | 94 | 0.00 |
| 94 | T | 13Diclorbenz | 0.5000 | 0.4779 | 4.42 | 95 | 0.00 |
| 95 | T | pIsopropylto | 0.5000 | 0.4882 | 2.36 | 92 | 0.00 |
| 96 | T | 14dichlorobe | 0.5000 | 0.4801 | 3.98 | 94 | 0.00 |
| 97 | T | 12dichlorobe | 0.5000 | 0.4797 | 4.06 | 93 | 0.00 |
| 98 | T | nButylbenzen | 0.5000 | 0.4959 | 0.82 | 96 | 0.00 |
| 99 | T | 12dibromo3cl | 0.5000 | 0.4436 | 11.28 | 90 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.5000 | 0.4519 | 9.62 | 90 | 0.00 |
| 101 | T | 124Trichlobe | 0.5000 | 0.4397 | 12.06 | 87 | 0.00 |
| 102 | T | Hexachlorobu | 0.5000 | 0.4200 | 16.00 | 86 | 0.00 |
| 103 | T | Naphthalene | 0.5000 | 0.4432 | 11.36 | 87 | 0.00 |
| 104 | T | 123Trichlben | 0.5000 | 0.4556 | 8.88 | 92 | 0.00 |

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(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Wed Apr 09 12:19:37 2025

Quantitation Report

Data File : C:\Instarch\Data\APR0825\CCV1.D Vial: 3
Acq On : 8 Apr 2025 9:35 Operator: RLD-DGS
Sample : 290622,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 10:17:54 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:13:03 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1104861 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 909721 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 467494 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 311032 | 1.045 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 105 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 73161 | 1.028 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 103 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1125946 | 1.033 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 103 % | | | |
| 82) SURR4BrFBenz | 13.47 | 95 | 460089 | 1.024 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 102 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 152266 | 0.4859 | mg/kg | 98 |
| 3) Chloromethan | 2.20 | 50 | 190877 | 0.4285 | mg/kg | 94 |
| 4) VinylChlorid | 2.36 | 62 | 164945 | 0.4284 | mg/kg | 86 |
| 5) Bromomethane | 2.83 | 94 | 71294 | 0.5186 | mg/kg | 92 |
| 6) Chloroethane | 2.97 | 64 | 32509 | 0.4613 | mg/kg | 97 |
| 7) dichloroflmethane | 3.29 | 67 | 256912 | 0.5619 | mg/kg | 99 |
| 8) Trichlorofma | 3.35 | 101 | 263759 | 0.5703 | mg/kg | 99 |
| 9) Ethylether | 3.89 | 59 | 123694 | 0.4683 | mg/kg# | 91 |
| 10) dichlorotfluoroethan | 3.85 | 67 | 150862 | 0.4782 | mg/kg | 94 |
| 11) propyleneoxide | 4.10 | 58 | 173958 | 3.4851 | mg/kg | 95 |
| 12) Acrolein | 4.02 | 56 | 133859 | 2.1925 | mg/kg | 89 |
| 13) 11dichlorthe | 4.12 | 96 | 126142 | 0.4885 | mg/kg | 91 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 255300 | 1.0405 | mg/kg | 98 |
| 15) Acetone | 4.27 | 43 | 709904 | 5.5451 | mg/kg | 98 |
| 16) Iodomethane | 4.31 | 127 | 117443 | 1.3616 | mg/kg# | 84 |
| 17) Carbon Dislf | 4.39 | 76 | 633528 | 0.9530 | mg/kg | 99 |
| 18) allylchloride | 4.63 | 41 | 293436 | 0.7194 | mg/kg | 83 |
| 19) methylacetate | 4.73 | 74 | 77488 | 0.3589 | mg/kg | 94 |
| 20) Methylchlorid | 4.78 | 84 | 145851 | 0.4707 | mg/kg# | 77 |
| 21) Acrylonitrile | 5.12 | 53 | 303279 | 2.3176 | mg/kg | 99 |
| 22) t12dichlorte | 5.17 | 96 | 139641 | 0.5060 | mg/kg# | 88 |
| 23) tbutylalcohol | 5.11 | 59 | 468328 | 17.8472 | mg/kg | 97 |
| 24) MtBE | 5.25 | 73 | 253760 | 0.4230 | mg/kg | 95 |
| 25) Hexane | 5.57 | 57 | 355213 | 0.7950 | mg/kg | 98 |
| 26) 11dichlorota | 5.70 | 63 | 252195 | 0.4423 | mg/kg | 95 |
| 27) Vinylacetate | 5.81 | 43 | 2217681 | 4.8113 | mg/kg | 92 |
| 28) chloroprene | 5.84 | 53 | 384498 | 0.8692 | mg/kg | 91 |
| 29) Diisopether | 5.89 | 45 | 384755 | 0.4072 | mg/kg | 88 |
| 30) ETBE | 6.34 | 59 | 93326 | 0.2571 | mg/kg | 94 |
| 31) 22dichloropr | 6.45 | 77 | 176709 | 0.4496 | mg/kg | 98 |
| 32) c12dichlorte | 6.45 | 96 | 150691 | 0.4957 | mg/kg# | 87 |
| 33) 2Butanone | 6.50 | 72 | 203972 | 5.8837 | mg/kg | 95 |
| 34) propionitrile | 6.52 | 54 | 190264 | 3.7453 | mg/kg | 98 |
| 35) Ethylacetate | 6.60 | 88 | 16267 | 2.3868 | mg/kg# | 53 |
| 36) methacrylonitrile | 6.72 | 67 | 107002 | 0.9331 | mg/kg# | 80 |
| 37) Bromochlorma | 6.74 | 128 | 67979 | 0.5051 | mg/kg# | 74 |
| 38) Tetrahydofur | 6.87 | 42 | 341798 | 3.4256 | mg/kg | 78 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0825\CCV1.D Vial: 3
Acq On : 8 Apr 2025 9:35 Operator: RLD-DGS
Sample : 290622,CCV, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 10:17:54 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:13:03 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 259729 | 0.5214 mg/kg | 99 |
| 40) | 111trichlota | 7.10 | 97 | 227279 | 0.5240 mg/kg | 96 |
| 42) | Cyclohexane | 7.18 | 56 | 218544 | 0.4211 mg/kg | 82 |
| 43) | Carbtetraclo | 7.31 | 119 | 198975 | 0.5377 mg/kg | 97 |
| 44) | 11dicloprope | 7.30 | 110 | 68005 | 0.5171 mg/kg | 92 |
| 46) | Benzene | 7.55 | 78 | 545515 | 0.4918 mg/kg | 97 |
| 47) | 12dichlorota | 7.55 | 62 | 204576 | 0.5009 mg/kg | 99 |
| 48) | TAME | 7.75 | 73 | 49615 | 0.2736 mg/kg | 93 |
| 49) | trichloroete | 8.36 | 95 | 148417 | 0.5035 mg/kg | 97 |
| 50) | methylcyclohexane | 8.64 | 83 | 227543 | 0.5076 mg/kg | 87 |
| 51) | 12dicloropra | 8.62 | 63 | 144969 | 0.4219 mg/kg | 81 |
| 52) | 23dicl1propene | 8.68 | 75 | 211036 | 0.4898 mg/kg | 96 |
| 53) | Dibromometha | 8.76 | 93 | 94466 | 0.5459 mg/kg | 95 |
| 54) | methylmethacrylate | 8.80 | 69 | 80175 | 0.4635 mg/kg | 94 |
| 55) | 14dioxane | 8.86 | 88 | 85888 | 25.6304 mg/kg | 85 |
| 56) | Bromodiclrma | 8.96 | 83 | 195778 | 0.5210 mg/kg | 98 |
| 57) | 2Nitropropane | 9.23 | 43 | 388065 | 4.3681 mg/kg | 93 |
| 58) | c13dicloproe | 9.55 | 75 | 208095 | 0.4794 mg/kg | 96 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 1051410 | 4.0148 mg/kg | 97 |
| 61) | Toluene | 10.00 | 92 | 348696 | 0.5137 mg/kg | 98 |
| 62) | t13Dicloprop | 10.26 | 75 | 182250 | 0.4823 mg/kg | 97 |
| 63) | ethylmethacrylate | 10.41 | 69 | 278280 | 0.9696 mg/kg | 87 |
| 64) | 112Triclotha | 10.49 | 83 | 109158 | 0.5183 mg/kg | 97 |
| 65) | Tetrachlorte | 10.75 | 166 | 141912 | 0.4670 mg/kg | 96 |
| 66) | 13Diclorpropa | 10.72 | 76 | 202347 | 0.4893 mg/kg | 99 |
| 68) | 2Hexanone | 10.85 | 43 | 849681 | 4.1686 mg/kg | 97 |
| 69) | Clorodibrmta | 11.03 | 129 | 145411 | 0.4910 mg/kg | 98 |
| 70) | 12Dibrometha | 11.18 | 107 | 133481 | 0.4782 mg/kg | 96 |
| 71) | Chlorobenzen | 11.88 | 112 | 395069 | 0.4823 mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 178156 | 0.4436 mg/kg | 89 |
| 73) | 1112Tetclota | 11.98 | 131 | 136977 | 0.4872 mg/kg | 99 |
| 74) | Ethylbenzene | 12.04 | 91 | 653220 | 0.4821 mg/kg | 98 |
| 75) | m p-Xylene | 12.20 | 106 | 503450 | 0.9524 mg/kg | 98 |
| 76) | o-Xylene | 12.75 | 106 | 241044 | 0.4829 mg/kg | 98 |
| 77) | Styrene | 12.76 | 104 | 374952 | 0.4755 mg/kg | 95 |
| 78) | Bromoform | 12.99 | 173 | 92151 | 0.5040 mg/kg | 99 |
| 79) | Isopropylben | 13.28 | 105 | 614400 | 0.4768 mg/kg | 97 |
| 81) | cyclohexanone | 13.39 | 55 | 473591 | 13.2407 mg/kg | 85 |
| 83) | Bromobenzene | 13.69 | 156 | 153103 | 0.4782 mg/kg | 95 |
| 84) | 1122Tetrclta | 13.65 | 83 | 170936 | 0.4724 mg/kg | 99 |
| 85) | 123Triclproa | 13.71 | 75 | 172463 | 0.4822 mg/kg | 100 |
| 86) | 14dichloro2butene | 13.73 | 53 | 15862 | 0.5198 mg/kg | 88 |
| 87) | n-Propylbenz | 13.86 | 91 | 769013 | 0.4865 mg/kg | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 445811 | 0.4777 mg/kg | 97 |
| 89) | 4chlorotolue | 14.13 | 91 | 541915 | 0.4992 mg/kg | 98 |
| 90) | 135Trimebenz | 14.12 | 105 | 536076 | 0.4949 mg/kg | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 437932 | 0.4790 mg/kg | 99 |
| 92) | 124Trimetben | 14.66 | 105 | 528132 | 0.4921 mg/kg | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 688647 | 0.4991 mg/kg | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 291845 | 0.4779 mg/kg | 97 |
| 95) | pIsopropylto | 15.13 | 119 | 567488 | 0.4882 mg/kg | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 299028 | 0.4801 mg/kg | 98 |
| 97) | 12dichlorobe | 15.72 | 146 | 274218 | 0.4797 mg/kg | 98 |
| 98) | nButylbenzen | 15.72 | 91 | 565160 | 0.4959 mg/kg | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 26969 | 0.4436 mg/kg | 97 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 183382 | 0.4519 mg/kg | 95 |
| 101) | 124Trichlobe | 17.94 | 180 | 151180 | 0.4397 mg/kg | 96 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0825\CCV1.D  Vial: 3
Acq On : 8 Apr 2025 9:35  Operator: RLD-DGS
Sample : 290622,CCV,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 10:17:54 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:13:03 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 84270 | 0.4200 | mg/kg | 99 |
| 103) Naphthalene | 18.25 | 128 | 326032 | 0.4432 | mg/kg | 96 |
| 104) 123Trichlben | 18.55 | 180 | 134005 | 0.4556 | mg/kg | 94 |

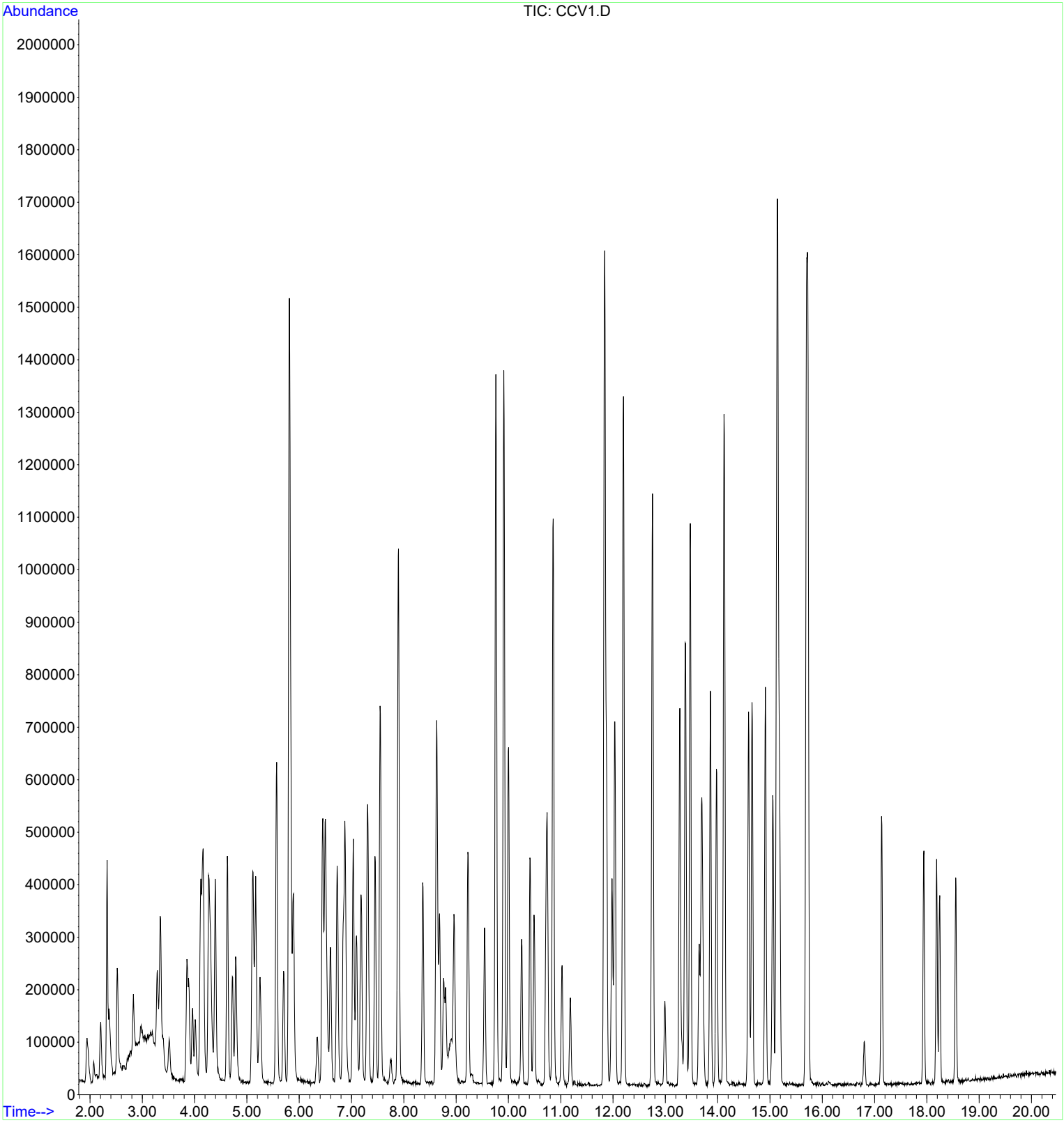
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0825\CCV1.D  Vial: 3
Acq On : 8 Apr 2025 9:35  Operator: RLD-DGS
Sample : 290622,CCV,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 10:17:54 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:13:03 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\Instarch\Data\APR0825\MB-CCB1.D Vial: 6
Acq On : 8 Apr 2025 10:59 Operator: RLD-DGS
Sample : 290622,MBS, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 11:20:07 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1069234 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 885780 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 435736 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 306309 | 1.063 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 106 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 66489 | 0.965 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 97 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1084887 | 1.029 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 103 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 423842 | 1.012 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 1904 | N.D. | | |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 2.83 | 94 | 2194 | Below Cal # | | 53 |
| 6) Chloroethane | 3.04 | 64 | 1776 | N.D. | | |
| 7) dichloroflmethane | 3.26 | 67 | 2349 | Below Cal # | | 8 |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 3.82 | 67 | 1449 | N.D. | | |
| 11) propyleneoxide | 4.13 | 58 | 2209 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.29 | 43 | 8414 | N.D. | | |
| 16) Iodomethane | 4.30 | 127 | 6204 | 0.1340 | mg/kg# | 56 |
| 17) Carbon Dislf | 4.39 | 76 | 2939 | N.D. | | |
| 18) allylchloride | 4.66 | 41 | 1067 | N.D. | | |
| 19) methylacetate | 0.00 | 74 | 0 | N.D. | | |
| 20) Methylchlorid | 4.79 | 84 | 1762 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 0.00 | 59 | 0 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 5.88 | 43 | 1075 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 5.84 | 45 | 1882 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.51 | 77 | 1446 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 0.00 | 42 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0825\MB-CCB1.D Vial: 6
Acq On : 8 Apr 2025 10:59 Operator: RLD-DGS
Sample : 290622,MBS, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 11:20:07 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 7.58 | 78 | 1073 | N.D. | |
| 47) | 12dichlorota | 7.55 | 62 | 1931 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 9.23 | 43 | 2491 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 9.77 | 43 | 2593 | N.D. | |
| 61) | Toluene | 10.01 | 92 | 1613 | N.D. | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 10.86 | 43 | 4404 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 11.84 | 91 | 2170 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 0.00 | 91 | 0 | N.D. | |
| 75) | m p-Xylene | 12.21 | 106 | 1209 | N.D. | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | |
| 81) | cyclohexanone | 13.39 | 55 | 2419 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 0.00 | 91 | 0 | N.D. | |
| 88) | 2chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 90) | 135Trimebenz | 0.00 | 105 | 0 | N.D. | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | |
| 92) | 124Trimetben | 14.66 | 105 | 1935 | N.D. | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) | 13Diclorbenz | 15.13 | 146 | 1226 | N.D. | |
| 95) | pIsopropylto | 15.13 | 119 | 1084 | N.D. | |
| 96) | 14dichlorobe | 15.13 | 146 | 1226 | N.D. | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 98) | nButylbenzen | 15.72 | 91 | 4085 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\Instarch\Data\APR0825\MB-CCB1.D Vial: 6
Acq On : 8 Apr 2025 10:59 Operator: RLD-DGS
Sample : 290622,MBS, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 11:20:07 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | |
| 103) Naphthalene | 18.25 | 128 | 5879 | N.D. | |
| 104) 123Trichlben | 18.56 | 180 | 1153 | N.D. | |

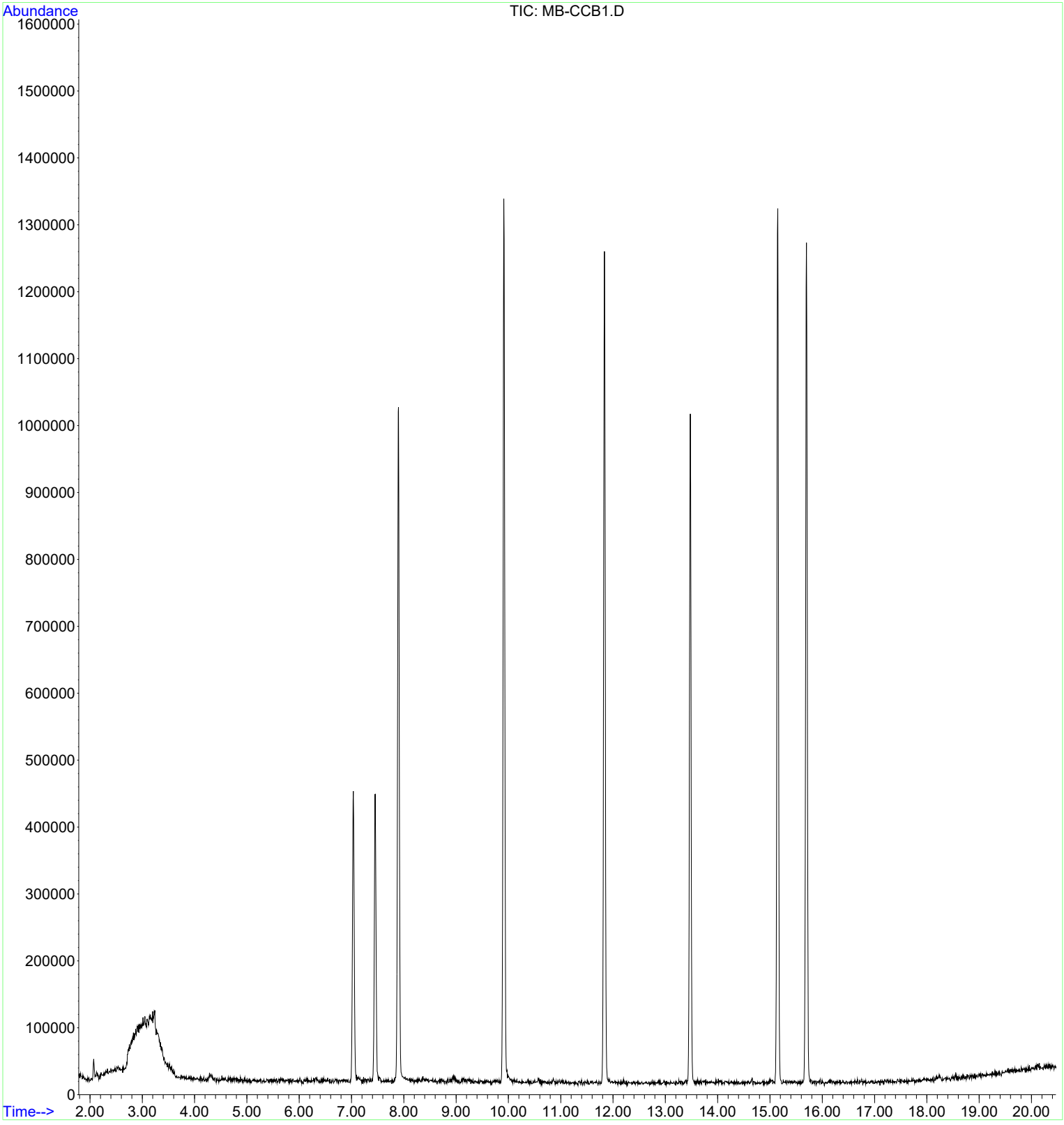
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0825\MB-CCB1.D Vial: 6
Acq On : 8 Apr 2025 10:59 Operator: RLD-DGS
Sample : 290622,MBS, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 11:20:07 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR0825\CCVF1.D  Vial: 21
Acq On : 8 Apr 2025 17:57  Operator: RLD-DGS
Sample : 290622,CCVF,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 08 18:17:41 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 89 | 0.00 |
| 2 | T | Dichlorodi | 0.2836 | 0.3094 | -9.10 | 94 | -0.02 |
| 3 | PT | Chloromethan | 0.4032 | 0.3039 | 24.63 | 67 | 0.00 |
| 4 | CT | VinylChlorid | 0.3485 | 0.3376 | 3.13 | 81 | -0.01 |
| 5 | T | Bromomethane | 0.1423 | 0.1475 | -3.65 | 107 | 0.00 |
| 6 | T | Chloroethane | 0.0638 | 0.0635 | 0.47 | 95 | -0.01 |
| 7 | T | dichloroflmethane | 0.3862 | 0.4690 | -21.44 | 87 | 0.00 |
| 8 | T | Trichlorofma | 0.4186 | 0.6148 | -46.87 | 114 | 0.00 |
| 9 | T | Ethylether | 0.2391 | 0.2002 | 16.27 | 76 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2855 | 0.2994 | -4.87 | 92 | 0.00 |
| 11 | T | propyleneoxide | 0.0452 | 0.0407 | 9.96 | 80 | 0.00 |
| 12 | T | Acrolein | 0.0553 | 0.0532 | 3.80 | 88 | 0.00 |
| 13 | CT | 11dichlorthe | 0.2337 | 0.2616 | -11.94 | 98 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.2221 | 0.2625 | -18.19 | 102 | 0.00 |
| 15 | T | Acetone | 0.1159 | 0.1479 | -27.61 | 113 | 0.00 |
| 16 | T | Iodomethane | 0.0999 | 0.1337 | -33.83 | 219# | 0.00 |
| 17 | T | Carbon Dislf | 0.6017 | 0.6016 | 0.02 | 91 | 0.00 |
| 18 | T | allylchloride | 0.3692 | 0.2798 | 24.21 | 68 | 0.00 |
| 19 | T | methylacetate | 0.1954 | 0.2205 | -12.85 | 95 | 0.00 |
| 20 | T | Methylchlorid | 0.2805 | 0.2821 | -0.57 | 96 | 0.00 |
| 21 | T | Acrylonitrile | 0.1184 | 0.0951 | 19.68 | 70 | 0.00 |
| 22 | T | t12dichlorte | 0.2498 | 0.2742 | -9.77 | 98 | 0.00 |
| 23 | T | tbutylalcohol | 0.0238 | 0.0191 | 19.75 | 73 | 0.00 |
| 24 | T | MtBE | 0.5430 | 0.5210 | 4.05 | 86 | 0.00 |
| 25 | T | Hexane | 0.4044 | 0.3421 | 15.41 | 72 | 0.00 |
| 26 | PT | 11dichlorota | 0.5161 | 0.4946 | 4.17 | 85 | 0.00 |
| 27 | T | Vinylacetate | 0.4172 | 0.2739 | 34.35 | 61 | 0.00 |
| 28 | T | chloroprene | 0.4004 | 0.3879 | 3.12 | 84 | 0.00 |
| 29 | T | Diisopether | 0.8551 | 0.6822 | 20.22 | 71 | 0.00 |
| 30 | T | ETBE | 0.3843 | 0.2132 | 44.52 | 55 | -0.01 |
| 31 | T | 22dichloropr | 0.3557 | 0.3375 | 5.12 | 89 | 0.00 |
| 32 | T | c12dichlorte | 0.2751 | 0.2979 | -8.29 | 97 | 0.00 |
| 33 | T | 2Butanone | 0.0314 | 0.0402 | -28.03 | 111 | 0.00 |
| 34 | T | propionitrile | 0.0460 | 0.0385 | 16.30 | 72 | 0.00 |
| 35 | T | Ethylacetate | 0.0062 | 0.0058# | 6.45 | 91 | 0.00 |
| 36 | T | methacrylonitrile | 0.1038 | 0.1041 | -0.29 | 86 | 0.00 |
| 37 | T | Bromochlorma | 0.1218 | 0.1339 | -9.93 | 98 | 0.00 |
| 38 | T | Tetrahydofur | 0.0903 | 0.0671 | 25.69 | 67 | 0.00 |
| 39 | CT | Chloroform | 0.4508 | 0.5051 | -12.05 | 99 | 0.00 |
| 40 | T | 111trichlota | 0.3926 | 0.4590 | -16.91 | 107 | 0.00 |
| 41 | S | SURRDibrflma | 0.2694 | 0.2879 | -6.87 | 96 | 0.00 |
| 42 | T | Cyclohexane | 0.4697 | 0.3964 | 15.61 | 73 | 0.00 |
| 43 | T | Carbtetraclo | 0.3349 | 0.3962 | -18.30 | 105 | 0.00 |
| 44 | T | 11dicloprope | 0.1190 | 0.1256 | -5.55 | 93 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0644 | 0.0625 | 2.95 | 88 | 0.00 |
| 46 | T | Benzene | 1.0039 | 1.0696 | -6.54 | 96 | 0.00 |
| 47 | T | 12dichlorota | 0.3696 | 0.4204 | -13.74 | 99 | 0.00 |
| 48 | T | TAME | 0.2100 | 0.1136 | 45.90 | 62 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.2668 | 0.3271 | -22.60 | 112 | 0.00 |
| 50 | T | methylcyclohexane | 0.4057 | 0.4768 | -17.53 | 101 | 0.00 |
| 51 | CT | 12dicloropra | 0.3110 | 0.3059 | 1.64 | 90 | 0.00 |
| 52 | T | 23dicl1propene | 0.3900 | 0.4321 | -10.79 | 96 | 0.00 |
| 53 | T | Dibromometha | 0.1566 | 0.1899 | -21.26 | 106 | 0.00 |
| 54 | T | methylmethacrylate | 0.1566 | 0.1707 | -9.00 | 96 | 0.00 |
| 55 | T | 14dioxane | 0.0030 | 0.0036# | -20.00 | 100 | 0.00 |
| 56 | T | Bromodiclrma | 0.3401 | 0.4097 | -20.46 | 106 | 0.00 |
| 57 | T | 2Nitropropane | 0.0804 | 0.0684 | 14.93 | 74 | 0.00 |
| 58 | T | c13dicloproe | 0.3929 | 0.4835 | -23.06 | 108 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.2370 | 0.2587 | -9.16 | 92 | 0.00 |
| 60 | S | SURRd8Tolule | 0.9864 | 0.9480 | 3.89 | 85 | 0.00 |
| 61 | CT | Toluene | 0.6144 | 0.6161 | -0.28 | 89 | 0.00 |
| 62 | T | t13Dicloprop | 0.3420 | 0.3406 | 0.41 | 91 | 0.00 |
| 63 | T | ethylmethacrylate | 0.2598 | 0.2680 | -3.16 | 90 | 0.00 |
| 64 | T | 112Triclotha | 0.1906 | 0.2119 | -11.18 | 96 | 0.00 |
| 65 | T | Tetrachlorte | 0.2750 | 0.3961 | -44.04 | 134 | 0.00 |
| 66 | T | 13Diclorpropa | 0.3743 | 0.4972 | -32.83 | 117 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 102 | 0.00 |
| 68 | T | 2Hexanone | 0.2241 | 0.2456 | -9.59 | 106 | 0.00 |
| 69 | T | Clorodibrmta | 0.3255 | 0.3199 | 1.72 | 97 | 0.00 |
| 70 | T | 12Dibrometha | 0.3068 | 0.3065 | 0.10 | 99 | 0.00 |
| 71 | PT | Chlorobenzen | 0.9004 | 0.8806 | 2.20 | 99 | 0.00 |
| 72 | T | 1Clhexane | 0.4415 | 0.4057 | 8.11 | 96 | 0.00 |
| 73 | T | 1112Tetclota | 0.3091 | 0.2968 | 3.98 | 98 | 0.00 |
| 74 | CT | Ethylbenzene | 1.4895 | 1.4812 | 0.56 | 100 | 0.00 |
| 75 | T | m p-Xylene | 0.5811 | 0.5630 | 3.11 | 99 | 0.00 |
| 76 | T | o-Xylene | 0.5487 | 0.5265 | 4.05 | 99 | 0.00 |
| 77 | T | Styrene | 0.8669 | 0.8507 | 1.87 | 96 | 0.00 |
| 78 | PT | Bromoform | 0.2010 | 0.1867 | 7.11 | 94 | 0.00 |
| 79 | T | Isopropylben | 1.4165 | 1.3993 | 1.21 | 100 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 99 | 0.00 |
| 81 | T | cyclohexanone | 0.0765 | 0.1122 | -46.67 | 138 | -0.01 |
| 82 | S | SURR4BrFBenz | 0.9612 | 0.9940 | -3.41 | 104 | 0.00 |
| 83 | T | Bromobenzene | 0.6849 | 0.6893 | -0.64 | 103 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.7740 | 0.7189 | 7.12 | 92 | 0.00 |
| 85 | T | 123Triclproa | 0.7651 | 0.7430 | 2.89 | 97 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0653 | 0.0578 | 11.49 | 97 | 0.00 |
| 87 | T | n-Propylbenz | 3.3812 | 3.4305 | -1.46 | 99 | 0.00 |
| 88 | T | 2chlorotolue | 1.9962 | 2.0155 | -0.97 | 98 | 0.00 |
| 89 | T | 4chlorotolue | 2.3219 | 2.3981 | -3.28 | 100 | 0.00 |
| 90 | T | 135Trimebenz | 2.3169 | 2.4075 | -3.91 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 1.9556 | 1.9396 | 0.82 | 97 | 0.00 |
| 92 | T | 124Trimetben | 2.2956 | 2.3556 | -2.61 | 99 | 0.00 |
| 93 | T | sbutylbenzen | 2.9515 | 3.0068 | -1.87 | 99 | 0.00 |
| 94 | T | 13Diclorbenz | 1.3063 | 1.2772 | 2.23 | 99 | 0.00 |
| 95 | T | pIsopropylto | 2.4866 | 2.5316 | -1.81 | 98 | 0.00 |
| 96 | T | 14dichlorobe | 1.3324 | 1.2835 | 3.67 | 97 | 0.00 |
| 97 | T | 12dichlorobe | 1.2228 | 1.1978 | 2.04 | 98 | 0.00 |
| 98 | T | nButylbenzen | 2.4380 | 2.5334 | -3.91 | 103 | 0.00 |
| 99 | T | 12dibromo3cl | 0.1301 | 0.1074 | 17.45 | 86 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.8681 | 0.7816 | 9.96 | 92 | 0.00 |
| 101 | T | 124Trichlobe | 0.7354 | 0.7030 | 4.41 | 97 | 0.00 |
| 102 | T | Hexachlorobu | 0.4292 | 0.3783 | 11.86 | 92 | 0.00 |
| 103 | T | Naphthalene | 1.5734 | 1.6125 | -2.49 | 103 | 0.00 |
| 104 | T | 123Trichlben | 0.6291 | 0.6136 | 2.46 | 101 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Wed Apr 09 12:20:45 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR0825\CCVF1.D  Vial: 21
Acq On : 8 Apr 2025 17:57  Operator: RLD-DGS
Sample : 290622,CCVF,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 08 18:17:41 2025

Quant Method : C:\INSTARCH\METHODS\PS032525.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS032525.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 89 | 0.00 |
| 2 | T | Dichlorodi | 0.5000 | 0.5454 | -9.08 | 94 | -0.02 |
| 3 | PT | Chloromethan | 0.5000 | 0.3769 | 24.62 | 67 | 0.00 |
| 4 | CT | VinylChlorid | 0.5000 | 0.4844 | 3.12 | 81 | -0.01 |
| 5 | T | Bromomethane | 0.5000 | 0.6071 | -21.42 | 107 | 0.00 |
| 6 | T | Chloroethane | 0.5000 | 0.4982 | 0.36 | 95 | -0.01 |
| 7 | T | dichloroflmethane | 0.5000 | 0.5669 | -13.38 | 87 | 0.00 |
| 8 | T | Trichlorofma | 0.5000 | 0.7343 | -46.86 | 114 | 0.00 |
| 9 | T | Ethylether | 0.5000 | 0.4186 | 16.28 | 76 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.5000 | 0.5243 | -4.86 | 92 | 0.00 |
| 11 | T | propyleneoxide | 5.0000 | 4.5021 | 9.96 | 80 | 0.00 |
| 12 | T | Acrolein | 2.5000 | 2.4053 | 3.79 | 88 | 0.00 |
| 13 | CT | 11dichlorthe | 0.5000 | 0.5596 | -11.92 | 98 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 1.0000 | 1.1820 | -18.20 | 102 | 0.00 |
| 15 | T | Acetone | 5.0000 | 6.3801 | -27.60 | 113 | 0.00 |
| 16 | T | Iodomethane | 1.0000 | 1.6775 | -67.75# | 219 | 0.00 |
| 17 | T | Carbon Dislf | 1.0000 | 0.9998 | 0.02 | 91 | 0.00 |
| 18 | T | allylchloride | 1.0000 | 0.7579 | 24.21 | 68 | 0.00 |
| 19 | T | methylacetate | 0.5000 | 0.5642 | -12.84 | 95 | 0.00 |
| 20 | T | Methylchlorid | 0.5000 | 0.5028 | -0.56 | 96 | 0.00 |
| 21 | T | Acrylonitrile | 2.5000 | 2.0074 | 19.70 | 70 | 0.00 |
| 22 | T | t12dichlorte | 0.5000 | 0.5490 | -9.80 | 98 | 0.00 |
| 23 | T | tbutylalcohol | 25.0000 | 20.1460 | 19.42 | 73 | 0.00 |
| 24 | T | MtBE | 0.5000 | 0.4798 | 4.04 | 86 | 0.00 |
| 25 | T | Hexane | 1.0000 | 0.8459 | 15.41 | 72 | 0.00 |
| 26 | PT | 11dichlorota | 0.5000 | 0.4791 | 4.18 | 85 | 0.00 |
| 27 | T | Vinylacetate | 5.0000 | 3.2832 | 34.34 | 61 | 0.00 |
| 28 | T | chloroprene | 1.0000 | 0.9689 | 3.11 | 84 | 0.00 |
| 29 | T | Diisopether | 0.5000 | 0.3989 | 20.22 | 71 | 0.00 |
| 30 | T | ETBE | 0.5000 | 0.3172 | 36.56 | 55 | -0.01 |
| 31 | T | 22dichloropr | 0.5000 | 0.4743 | 5.14 | 89 | 0.00 |
| 32 | T | c12dichlorte | 0.5000 | 0.5413 | -8.26 | 97 | 0.00 |
| 33 | T | 2Butanone | 5.0000 | 6.4075 | -28.15 | 111 | 0.00 |
| 34 | T | propionitrile | 5.0000 | 4.1888 | 16.22 | 72 | 0.00 |
| 35 | T | Ethylacetate | 2.5000 | 2.3642 | 5.43 | 91 | 0.00 |
| 36 | T | methacrylonitrile | 1.0000 | 1.0029 | -0.29 | 86 | 0.00 |
| 37 | T | Bromochlorma | 0.5000 | 0.5496 | -9.92 | 98 | 0.00 |
| 38 | T | Tetrahydofur | 5.0000 | 3.7161 | 25.68 | 67 | 0.00 |
| 39 | CT | Chloroform | 0.5000 | 0.5602 | -12.04 | 99 | 0.00 |
| 40 | T | 111trichlota | 0.5000 | 0.5847 | -16.94 | 107 | 0.00 |
| 41 | S | SURRDibrflma | 1.0000 | 1.0686 | -6.86 | 96 | 0.00 |
| 42 | T | Cyclohexane | 0.5000 | 0.4220 | 15.60 | 73 | 0.00 |
| 43 | T | Carbtetraclo | 0.5000 | 0.5916 | -18.32 | 105 | 0.00 |
| 44 | T | 11dicloprope | 0.5000 | 0.5278 | -5.56 | 93 | 0.00 |
| 45 | S | SURR12DCAd4 | 1.0000 | 0.9708 | 2.92 | 88 | 0.00 |
| 46 | T | Benzene | 0.5000 | 0.5327 | -6.54 | 96 | 0.00 |
| 47 | T | 12dichlorota | 0.5000 | 0.5687 | -13.74 | 99 | 0.00 |
| 48 | T | TAME | 0.5000 | 0.3349 | 33.02 | 62 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.5000 | 0.6130 | -22.60 | 112 | 0.00 |
| 50 | T | methylcyclohexane | 0.5000 | 0.5877 | -17.54 | 101 | 0.00 |
| 51 | CT | 12dicloropra | 0.5000 | 0.4917 | 1.66 | 90 | 0.00 |
| 52 | T | 23dicl1propene | 0.5000 | 0.5541 | -10.82 | 96 | 0.00 |
| 53 | T | Dibromometha | 0.5000 | 0.6062 | -21.24 | 106 | 0.00 |
| 54 | T | methylmethacrylate | 0.5000 | 0.5452 | -9.04 | 96 | 0.00 |
| 55 | T | 14dioxane | 25.0000 | 29.6718 | -18.69 | 100 | 0.00 |
| 56 | T | Bromodiclrma | 0.5000 | 0.6023 | -20.46 | 106 | 0.00 |
| 57 | T | 2Nitropropane | 5.0000 | 4.2552 | 14.90 | 74 | 0.00 |
| 58 | T | c13dicloproe | 0.5000 | 0.6153 | -23.06 | 108 | 0.00 |
| 59 | T | 4Meth2Pentan | 5.0000 | 5.4576 | -9.15 | 92 | 0.00 |
| 60 | S | SURRd8Tolule | 1.0000 | 0.9611 | 3.89 | 85 | 0.00 |
| 61 | CT | Toluene | 0.5000 | 0.5014 | -0.28 | 89 | 0.00 |
| 62 | T | t13Dicloprop | 0.5000 | 0.4979 | 0.42 | 91 | 0.00 |
| 63 | T | ethylmethacrylate | 1.0000 | 1.0317 | -3.17 | 90 | 0.00 |
| 64 | T | 112Triclotha | 0.5000 | 0.5558 | -11.16 | 96 | 0.00 |
| 65 | T | Tetrachlorte | 0.5000 | 0.7201 | -44.02 | 134 | 0.00 |
| 66 | T | 13Diclorpropa | 0.5000 | 0.6642 | -32.84 | 117 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 102 | 0.00 |
| 68 | T | 2Hexanone | 5.0000 | 5.4802 | -9.60 | 106 | 0.00 |
| 69 | T | Clorodibrmta | 0.5000 | 0.4914 | 1.72 | 97 | 0.00 |
| 70 | T | 12Dibrometha | 0.5000 | 0.4995 | 0.10 | 99 | 0.00 |
| 71 | PT | Chlorobenzen | 0.5000 | 0.4890 | 2.20 | 99 | 0.00 |
| 72 | T | 1Clhexane | 0.5000 | 0.4594 | 8.12 | 96 | 0.00 |
| 73 | T | 1112Tetclota | 0.5000 | 0.4802 | 3.96 | 98 | 0.00 |
| 74 | CT | Ethylbenzene | 0.5000 | 0.4972 | 0.56 | 100 | 0.00 |
| 75 | T | m p-Xylene | 1.0000 | 0.9689 | 3.11 | 99 | 0.00 |
| 76 | T | o-Xylene | 0.5000 | 0.4798 | 4.04 | 99 | 0.00 |
| 77 | T | Styrene | 0.5000 | 0.4907 | 1.86 | 96 | 0.00 |
| 78 | PT | Bromoform | 0.5000 | 0.4645 | 7.10 | 94 | 0.00 |
| 79 | T | Isopropylben | 0.5000 | 0.4939 | 1.22 | 100 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 99 | 0.00 |
| 81 | T | cyclohexanone | 10.0000 | 14.6695 | -46.69 | 138 | -0.01 |
| 82 | S | SURR4BrFBenz | 1.0000 | 1.0341 | -3.41 | 104 | 0.00 |
| 83 | T | Bromobenzene | 0.5000 | 0.5032 | -0.64 | 103 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.5000 | 0.4644 | 7.12 | 92 | 0.00 |
| 85 | T | 123Triclproa | 0.5000 | 0.4856 | 2.88 | 97 | 0.00 |
| 86 | T | 14dichloro2butene | 0.5000 | 0.4427 | 11.46 | 97 | 0.00 |
| 87 | T | n-Propylbenz | 0.5000 | 0.5073 | -1.46 | 99 | 0.00 |
| 88 | T | 2chlorotolue | 0.5000 | 0.5048 | -0.96 | 98 | 0.00 |
| 89 | T | 4chlorotolue | 0.5000 | 0.5164 | -3.28 | 100 | 0.00 |
| 90 | T | 135Trimebenz | 0.5000 | 0.5195 | -3.90 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 0.5000 | 0.4959 | 0.82 | 97 | 0.00 |
| 92 | T | 124Trimetben | 0.5000 | 0.5131 | -2.62 | 99 | 0.00 |
| 93 | T | sbutylbenzen | 0.5000 | 0.5094 | -1.88 | 99 | 0.00 |
| 94 | T | 13Diclorbenz | 0.5000 | 0.4889 | 2.22 | 99 | 0.00 |
| 95 | T | pIsopropylto | 0.5000 | 0.5091 | -1.82 | 98 | 0.00 |
| 96 | T | 14dichlorobe | 0.5000 | 0.4817 | 3.66 | 97 | 0.00 |
| 97 | T | 12dichlorobe | 0.5000 | 0.4898 | 2.04 | 98 | 0.00 |
| 98 | T | nButylbenzen | 0.5000 | 0.5195 | -3.90 | 103 | 0.00 |
| 99 | T | 12dibromo3cl | 0.5000 | 0.4129 | 17.42 | 86 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.5000 | 0.4502 | 9.96 | 92 | 0.00 |
| 101 | T | 124Trichlobe | 0.5000 | 0.4780 | 4.40 | 97 | 0.00 |
| 102 | T | Hexachlorobu | 0.5000 | 0.4408 | 11.84 | 92 | 0.00 |
| 103 | T | Naphthalene | 0.5000 | 0.5124 | -2.48 | 103 | 0.00 |
| 104 | T | 123Trichlben | 0.5000 | 0.4877 | 2.46 | 101 | 0.00 |

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(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS032525.M Wed Apr 09 12:20:18 2025

Quantitation Report

Data File : C:\Instarch\Data\APR0825\CCVF1.D Vial: 21
Acq On : 8 Apr 2025 17:57 Operator: RLD-DGS
Sample : 290622,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 18:17:41 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1091572 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 950719 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 479456 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 314214 | 1.069 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 107 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 68272 | 0.971 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 97 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1034818 | 0.961 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 96 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 476579 | 1.034 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 103 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 168874 | 0.5454 | mg/kg | 98 |
| 3) Chloromethan | 2.20 | 50 | 165875 | 0.3769 | mg/kg | 98 |
| 4) VinylChlorid | 2.36 | 62 | 184259 | 0.4844 | mg/kg | 97 |
| 5) Bromomethane | 2.83 | 94 | 80479 | 0.6071 | mg/kg | 87 |
| 6) Chloroethane | 2.97 | 64 | 34682 | 0.4982 | mg/kg | 93 |
| 7) dichloroflmethane | 3.29 | 67 | 255996 | 0.5669 | mg/kg | 98 |
| 8) Trichlorofma | 3.35 | 101 | 335565 | 0.7343 | mg/kg | 99 |
| 9) Ethylether | 3.89 | 59 | 109256 | 0.4186 | mg/kg | 93 |
| 10) dichlorotfluoroethan | 3.85 | 67 | 163427 | 0.5243 | mg/kg | 96 |
| 11) propyleneoxide | 4.10 | 58 | 222019 | 4.5021 | mg/kg | 97 |
| 12) Acrolein | 4.01 | 56 | 145083 | 2.4053 | mg/kg | 93 |
| 13) 11dichlorthe | 4.12 | 96 | 142755 | 0.5596 | mg/kg | 90 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 286547 | 1.1820 | mg/kg | 98 |
| 15) Acetone | 4.27 | 43 | 806989 | 6.3801 | mg/kg | 100 |
| 16) Iodomethane | 4.30 | 127 | 145974 | 1.6775 | mg/kg# | 78 |
| 17) Carbon Dislf | 4.39 | 76 | 656645 | 0.9998 | mg/kg | 100 |
| 18) allylchloride | 4.63 | 41 | 305397 | 0.7579 | mg/kg | 81 |
| 19) methylacetate | 4.72 | 74 | 120343 | 0.5642 | mg/kg | 91 |
| 20) Methylchlorid | 4.79 | 84 | 153942 | 0.5028 | mg/kg# | 81 |
| 21) Acrylonitrile | 5.11 | 53 | 259537 | 2.0074 | mg/kg | 98 |
| 22) t12dichlorte | 5.17 | 96 | 149676 | 0.5490 | mg/kg# | 87 |
| 23) tbutylalcohol | 5.11 | 59 | 522292 | 20.1460 | mg/kg | 97 |
| 24) MtBE | 5.25 | 73 | 284377 | 0.4798 | mg/kg | 92 |
| 25) Hexane | 5.57 | 57 | 373416 | 0.8459 | mg/kg | 99 |
| 26) 11dichlorota | 5.70 | 63 | 269949 | 0.4791 | mg/kg | 95 |
| 27) Vinylacetate | 5.81 | 43 | 1495116 | 3.2832 | mg/kg | 94 |
| 28) chloroprene | 5.84 | 53 | 423470 | 0.9689 | mg/kg | 94 |
| 29) Diisopether | 5.89 | 45 | 372356 | 0.3989 | mg/kg | 91 |
| 30) ETBE | 6.34 | 59 | 116345 | 0.3172 | mg/kg | 97 |
| 31) 22dichloropr | 6.45 | 77 | 184183 | 0.4743 | mg/kg | 98 |
| 32) c12dichlorte | 6.45 | 96 | 162570 | 0.5413 | mg/kg# | 87 |
| 33) 2Butanone | 6.50 | 72 | 219457 | 6.4075 | mg/kg | 95 |
| 34) propionitrile | 6.52 | 54 | 210236 | 4.1888 | mg/kg | 97 |
| 35) Ethylacetate | 6.60 | 88 | 15919 | 2.3642 | mg/kg# | 72 |
| 36) methacrylonitrile | 6.72 | 67 | 113624 | 1.0029 | mg/kg# | 83 |
| 37) Bromochlorma | 6.73 | 128 | 73078 | 0.5496 | mg/kg# | 77 |
| 38) Tetrahydofur | 6.88 | 42 | 366325 | 3.7161 | mg/kg | 80 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0825\CCVF1.D Vial: 21
Acq On : 8 Apr 2025 17:57 Operator: RLD-DGS
Sample : 290622,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 18:17:41 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 6.85 | 83 | 275693 | 0.5602 mg/kg | 98 |
| 40) 111trichlota | 7.09 | 97 | 250533 | 0.5847 mg/kg | 96 |
| 42) Cyclohexane | 7.18 | 56 | 216376 | 0.4220 mg/kg | 80 |
| 43) Carbtetraclo | 7.32 | 119 | 216266 | 0.5916 mg/kg | 99 |
| 44) 11dicloprope | 7.30 | 110 | 68567 | 0.5278 mg/kg | 98 |
| 46) Benzene | 7.55 | 78 | 583765 | 0.5327 mg/kg | 97 |
| 47) 12dichlorota | 7.55 | 62 | 229468 | 0.5687 mg/kg | 99 |
| 48) TAME | 7.75 | 73 | 62018 | 0.3349 mg/kg | 95 |
| 49) trichloroete | 8.36 | 95 | 178511 | 0.6130 mg/kg | 96 |
| 50) methylcyclohexane | 8.64 | 83 | 260248 | 0.5877 mg/kg | 89 |
| 51) 12dicloropra | 8.62 | 63 | 166946 | 0.4917 mg/kg | 83 |
| 52) 23dicl1propene | 8.68 | 75 | 235860 | 0.5541 mg/kg | 94 |
| 53) Dibromometha | 8.76 | 93 | 103646 | 0.6062 mg/kg | 96 |
| 54) methylmethacrylate | 8.80 | 69 | 93163 | 0.5452 mg/kg | 97 |
| 55) 14dioxane | 8.85 | 88 | 98235 | 29.6718 mg/kg | 84 |
| 56) Bromodiclrma | 8.96 | 83 | 223616 | 0.6023 mg/kg | 100 |
| 57) 2Nitropropane | 9.23 | 43 | 373489 | 4.2552 mg/kg | 98 |
| 58) c13dicloproe | 9.54 | 75 | 263863 | 0.6153 mg/kg | 96 |
| 59) 4Meth2Pentan | 9.76 | 43 | 1412073 | 5.4576 mg/kg | 94 |
| 61) Toluene | 10.00 | 92 | 336276 | 0.5014 mg/kg | 98 |
| 62) t13Dicloprop | 10.26 | 75 | 185889 | 0.4979 mg/kg | 94 |
| 63) ethylmethacrylate | 10.42 | 69 | 292541 | 1.0317 mg/kg# | 80 |
| 64) 112Triclotha | 10.49 | 83 | 115633 | 0.5558 mg/kg | 95 |
| 65) Tetrachlorte | 10.74 | 166 | 216203 | 0.7201 mg/kg | 97 |
| 66) 13Diclorpropa | 10.72 | 76 | 271383 | 0.6642 mg/kg | 98 |
| 68) 2Hexanone | 10.86 | 43 | 1167382 | 5.4802 mg/kg | 95 |
| 69) Clorodibrmta | 11.03 | 129 | 152089 | 0.4914 mg/kg | 98 |
| 70) 12Dibrometha | 11.18 | 107 | 145704 | 0.4995 mg/kg | 96 |
| 71) Chlorobenzen | 11.87 | 112 | 418616 | 0.4890 mg/kg | 98 |
| 72) 1Clhexane | 11.85 | 91 | 192853 | 0.4594 mg/kg | 87 |
| 73) 1112Tetclota | 11.98 | 131 | 141091 | 0.4802 mg/kg | 96 |
| 74) Ethylbenzene | 12.04 | 91 | 704081 | 0.4972 mg/kg | 98 |
| 75) m p-Xylene | 12.20 | 106 | 535300 | 0.9689 mg/kg | 97 |
| 76) o-Xylene | 12.75 | 106 | 250291 | 0.4798 mg/kg | 98 |
| 77) Styrene | 12.76 | 104 | 404407 | 0.4907 mg/kg | 98 |
| 78) Bromoform | 12.99 | 173 | 88768 | 0.4645 mg/kg | 97 |
| 79) Isopropylben | 13.28 | 105 | 665158 | 0.4939 mg/kg | 99 |
| 81) cyclohexanone | 13.38 | 55 | 538124 | 14.6695 mg/kg | 86 |
| 83) Bromobenzene | 13.69 | 156 | 165244 | 0.5032 mg/kg | 96 |
| 84) 1122Tetrclta | 13.65 | 83 | 172331 | 0.4644 mg/kg | 97 |
| 85) 123Triclproa | 13.72 | 75 | 178124 | 0.4856 mg/kg | 98 |
| 86) 14dichloro2butene | 13.73 | 53 | 13854 | 0.4427 mg/kg | 97 |
| 87) n-Propylbenz | 13.86 | 91 | 822390 | 0.5073 mg/kg | 99 |
| 88) 2chlorotolue | 13.98 | 91 | 483171 | 0.5048 mg/kg | 99 |
| 89) 4chlorotolue | 14.13 | 91 | 574890 | 0.5164 mg/kg | 98 |
| 90) 135Trimebenz | 14.12 | 105 | 577135 | 0.5195 mg/kg | 98 |
| 91) tbutylbenzen | 14.59 | 119 | 464987 | 0.4959 mg/kg | 95 |
| 92) 124Trimetben | 14.66 | 105 | 564710 | 0.5131 mg/kg | 100 |
| 93) sbutylbenzen | 14.91 | 105 | 720805 | 0.5094 mg/kg | 99 |
| 94) 13Diclorbenz | 15.06 | 146 | 306179 | 0.4889 mg/kg | 98 |
| 95) pIsopropylto | 15.13 | 119 | 606896 | 0.5091 mg/kg | 99 |
| 96) 14dichlorobe | 15.19 | 146 | 307702 | 0.4817 mg/kg | 97 |
| 97) 12dichlorobe | 15.73 | 146 | 287142 | 0.4898 mg/kg | 99 |
| 98) nButylbenzen | 15.72 | 91 | 607319 | 0.5195 mg/kg | 98 |
| 99) 12dibromo3cl | 16.81 | 157 | 25747 | 0.4129 mg/kg | 94 |
| 100) 135Trichlorobenzene | 17.13 | 180 | 187376 | 0.4502 mg/kg | 97 |
| 101) 124Trichlobe | 17.94 | 180 | 168539 | 0.4780 mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0825\CCVF1.D  Vial: 21
Acq On : 8 Apr 2025 17:57  Operator: RLD-DGS
Sample : 290622,CCVF,  Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 18:17:41 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 90692 | 0.4408 | mg/kg | 96 |
| 103) | Naphthalene | 18.25 | 128 | 386572 | 0.5124 | mg/kg | 97 |
| 104) | 123Trichlben | 18.56 | 180 | 147101 | 0.4877 | mg/kg | 93 |

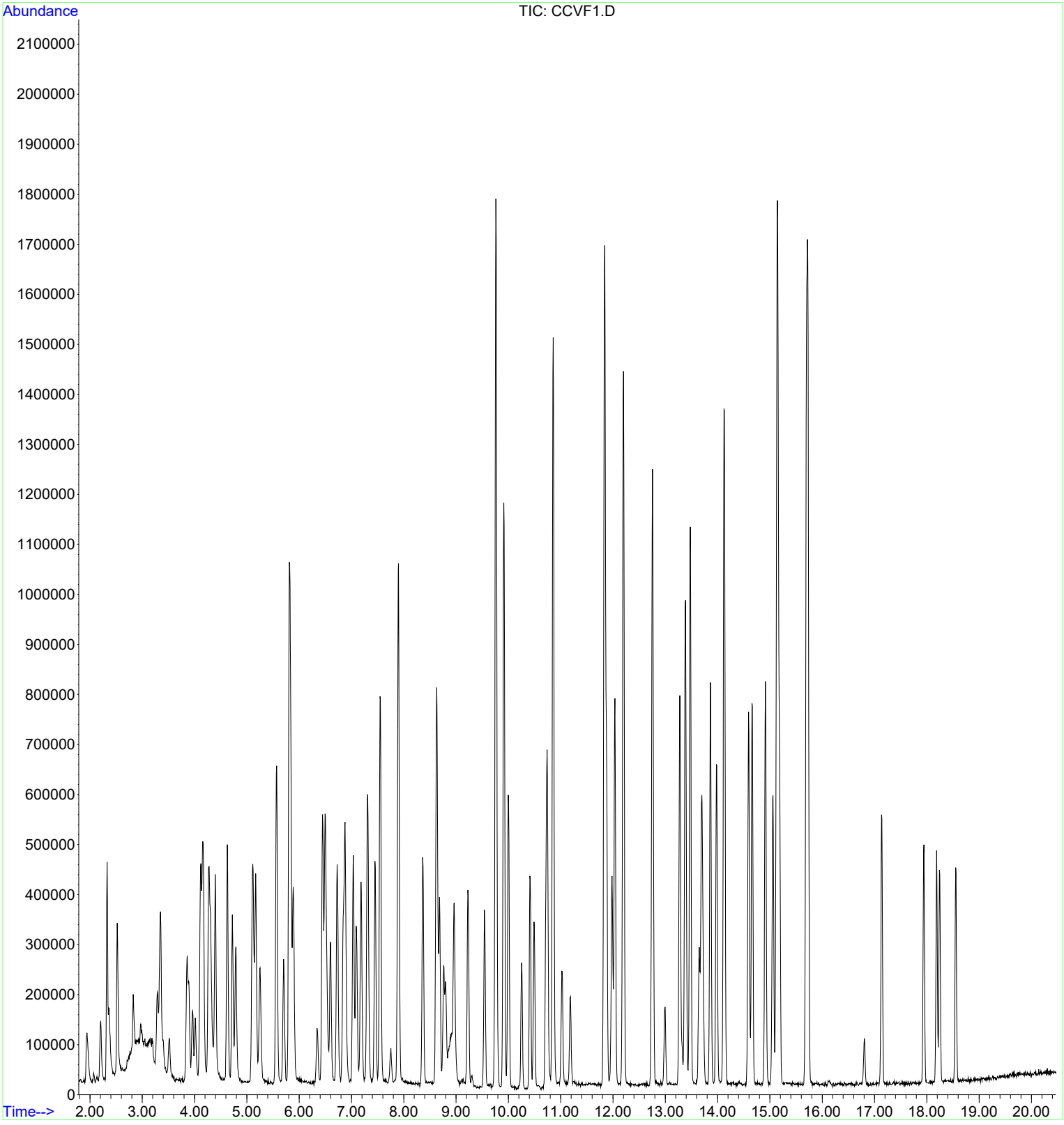
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0825\CCVF1.D Vial: 21
Acq On : 8 Apr 2025 17:57 Operator: RLD-DGS
Sample : 290622,CCVF, Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 18:17:41 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Data File : C:\Instarch\Data\APR1125\BFB1.D  Vial: 1
Acq On : 11 Apr 2025 7:34  Operator: RLD-DGS
Sample : 290584,BFB,  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS041025.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.943 to 4.949 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.4 | 12423 | PASS |
| 75 | 95 | 30 | 60 | 48.4 | 30970 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 64050 | PASS |
| 96 | 95 | 5 | 9 | 5.7 | 3662 | PASS |
| 173 | 174 | 0.00 | 2 | 0.8 | 382 | PASS |
| 174 | 95 | 50 | 100 | 77.9 | 49887 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 3824 | PASS |
| 176 | 174 | 95 | 101 | 98.9 | 49333 | PASS |
| 177 | 176 | 5 | 9 | 7.3 | 3598 | PASS |

LS041025.M Mon Apr 14 13:04:25 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1125\CCV1.D Vial: 3
Acq On : 11 Apr 2025 8:19 Operator: RLD-DGS
Sample : 290584,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 11 08:39:48 2025

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS041025.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 105 | 0.00 |
| 2 | T | Dichlorodi | 0.3075 | 0.3255 | -5.85 | 106 | 0.00 |
| 3 | PT | Chloromethan | 0.3258 | 0.3295 | -1.14 | 111 | 0.00 |
| 4 | CT | VinylChlorid | 0.3350 | 0.3542 | -5.73 | 112 | 0.00 |
| 5 | T | Bromomethane | 0.2284 | 0.2325 | -1.80 | 116 | 0.00 |
| 6 | T | Chloroethane | 0.1908 | 0.2252 | -18.03 | 116 | 0.00 |
| 7 | T | dichloroflmethane | 0.4336 | 0.3840 | 11.44 | 94 | 0.00 |
| 8 | T | Trichlorofma | 0.4245 | 0.4364 | -2.80 | 105 | 0.00 |
| 9 | T | Ethylether | 0.1881 | 0.1856 | 1.33 | 104 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2634 | 0.2571 | 2.39 | 106 | 0.00 |
| 11 | T | propyleneoxide | 0.0345 | 0.0338 | 2.03 | 110 | 0.00 |
| 12 | T | Acrolein | 0.0378 | 0.0362 | 4.23 | 105 | 0.00 |
| 13 | CT | 11dichlorthe | 0.2327 | 0.2330 | -0.13 | 108 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.2121 | 0.2198 | -3.63 | 106 | 0.00 |
| 15 | T | Acetone | 0.0781 | 0.0710 | 9.09 | 98 | 0.00 |
| 16 | T | Iodomethane | 0.2521 | 0.1943 | 22.93# | 89 | 0.00 |
| 17 | T | Carbon Dislf | 0.5989 | 0.6037 | -0.80 | 107 | 0.00 |
| 18 | T | allylchloride | 0.3494 | 0.3372 | 3.49 | 105 | 0.00 |
| 19 | T | methylacetate | 0.0776 | 0.0732 | 5.67 | 104 | 0.00 |
| 20 | T | Methylchlorid | 0.3017 | 0.2896 | 4.01 | 104 | 0.00 |
| 21 | T | Acrylonitrile | 0.0577 | 0.0576 | 0.17 | 106 | 0.00 |
| 22 | T | t12dichlorte | 0.2644 | 0.2574 | 2.65 | 102 | 0.00 |
| 23 | T | tbutylalcohol | 0.0131 | 0.0133 | -1.53 | 115 | 0.00 |
| 24 | T | MtBE | 0.3747 | 0.3760 | -0.35 | 114 | 0.00 |
| 25 | T | Hexane | 0.3038 | 0.3296 | -8.49 | 108 | 0.00 |
| 26 | PT | 11dichlorota | 0.4631 | 0.4494 | 2.96 | 105 | 0.00 |
| 27 | T | Vinylacetate | 0.4157 | 0.4407 | -6.01 | 106 | 0.00 |
| 28 | T | chloroprene | 0.3731 | 0.3641 | 2.41 | 103 | 0.00 |
| 29 | T | Diisopether | 0.7453 | 0.7213 | 3.22 | 102 | 0.00 |
| 30 | T | ETBE | 0.1314 | 0.1269 | 3.42 | 127 | 0.00 |
| 31 | T | 22dichloropr | 0.3270 | 0.3145 | 3.82 | 106 | 0.00 |
| 32 | T | c12dichlorte | 0.2848 | 0.2769 | 2.77 | 104 | 0.00 |
| 33 | T | 2Butanone | 0.0239 | 0.0230 | 3.77 | 103 | 0.00 |
| 34 | T | propionitrile | 0.0241 | 0.0242 | -0.41 | 111 | 0.00 |
| 35 | T | Ethylacetate | 0.0045 | 0.0049# | -8.89 | 114 | 0.00 |
| 36 | T | methacrylonitrile | 0.0765 | 0.0774 | -1.18 | 112 | 0.00 |
| 37 | T | Bromochlorma | 0.1286 | 0.1245 | 3.19 | 103 | 0.00 |
| 38 | T | Tetrahydofur | 0.0525 | 0.0521 | 0.76 | 107 | 0.00 |
| 39 | CT | Chloroform | 0.4892 | 0.4753 | 2.84 | 103 | 0.00 |
| 40 | T | 111trichlota | 0.4335 | 0.4133 | 4.66 | 101 | 0.00 |
| 41 | S | SURRDibrflma | 0.2699 | 0.2619 | 2.96 | 101 | 0.00 |
| 42 | T | Cyclohexane | 0.3764 | 0.3847 | -2.21 | 104 | 0.00 |
| 43 | T | Carbtetraclo | 0.3749 | 0.3676 | 1.95 | 102 | 0.00 |
| 44 | T | 11dicloprope | 0.1268 | 0.1226 | 3.31 | 102 | -0.01 |
| 45 | S | SURR12DCAd4 | 0.0511 | 0.0521 | -1.96 | 105 | 0.00 |
| 46 | T | Benzene | 1.0103 | 1.0003 | 0.99 | 106 | 0.00 |
| 47 | T | 12dichlorota | 0.3470 | 0.3344 | 3.63 | 100 | 0.00 |
| 48 | T | TAME | 0.0542 | 0.0561 | -3.51 | 137 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.2800 | 0.2708 | 3.29 | 101 | 0.00 |
| 50 | T | methylcyclohexane | 0.4133 | 0.4327 | -4.69 | 106 | 0.00 |
| 51 | CT | 12dicloropra | 0.2657 | 0.2626 | 1.17 | 104 | 0.00 |
| 52 | T | 23dicl1propene | 0.4179 | 0.4026 | 3.66 | 101 | 0.00 |
| 53 | T | Dibromometha | 0.1587 | 0.1564 | 1.45 | 102 | 0.00 |
| 54 | T | methylmethacrylate | 0.1401 | 0.1323 | 5.57 | 101 | 0.00 |
| 55 | T | 14dioxane | 0.0021 | 0.0021# | 0.00 | 109 | 0.00 |
| 56 | T | Bromodiclrma | 0.3816 | 0.3675 | 3.69 | 102 | 0.00 |
| 57 | T | 2Nitropropane | 0.0633 | 0.0610 | 3.63 | 102 | 0.00 |
| 58 | T | c13dicloproe | 0.4182 | 0.4024 | 3.78 | 102 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.1794 | 0.1802 | -0.45 | 103 | 0.00 |
| 60 | S | SURRd8Tolule | 1.0200 | 0.9873 | 3.21 | 102 | 0.00 |
| 61 | CT | Toluene | 0.6636 | 0.6400 | 3.56 | 101 | 0.00 |
| 62 | T | t13Dicloprop | 0.3460 | 0.3349 | 3.21 | 104 | 0.00 |
| 63 | T | ethylmethacrylate | 0.2719 | 0.2623 | 3.53 | 100 | 0.00 |
| 64 | T | 112Triclotha | 0.1830 | 0.1814 | 0.87 | 101 | 0.00 |
| 65 | T | Tetrachlorte | 0.2915 | 0.2684 | 7.92 | 97 | 0.00 |
| 66 | T | 13Diclorpropa | 0.3565 | 0.3469 | 2.69 | 102 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 97 | 0.00 |
| 68 | T | 2Hexanone | 0.1593 | 0.1631 | -2.39 | 101 | 0.00 |
| 69 | T | Clorodibrmta | 0.3282 | 0.3249 | 1.01 | 98 | 0.00 |
| 70 | T | 12Dibrometha | 0.2741 | 0.2799 | -2.12 | 99 | 0.00 |
| 71 | PT | Chlorobenzen | 0.8915 | 0.9025 | -1.23 | 99 | 0.00 |
| 72 | T | 1Clhexane | 0.4365 | 0.4400 | -0.80 | 99 | 0.00 |
| 73 | T | 1112Tetclota | 0.3319 | 0.3359 | -1.21 | 100 | 0.00 |
| 74 | CT | Ethylbenzene | 1.5447 | 1.5703 | -1.66 | 100 | 0.00 |
| 75 | T | m p-Xylene | 0.5832 | 0.5945 | -1.94 | 100 | 0.00 |
| 76 | T | o-Xylene | 0.5729 | 0.5752 | -0.40 | 98 | 0.00 |
| 77 | T | Styrene | 0.9417 | 0.9495 | -0.83 | 99 | 0.00 |
| 78 | PT | Bromoform | 0.1960 | 0.2037 | -3.93 | 99 | 0.00 |
| 79 | T | Isopropylben | 1.4781 | 1.5239 | -3.10 | 100 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 97 | 0.00 |
| 81 | T | cyclohexanone | 0.0495 | 0.0508 | -2.63 | 105 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.9694 | 0.9465 | 2.36 | 93 | 0.00 |
| 83 | T | Bromobenzene | 0.7611 | 0.7610 | 0.01 | 96 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.6347 | 0.6879 | -8.38 | 104 | 0.00 |
| 85 | T | 123Triclproa | 0.6237 | 0.6530 | -4.70 | 105 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0237 | 0.0195 | 17.72 | 106 | 0.00 |
| 87 | T | n-Propylbenz | 3.3640 | 3.4659 | -3.03 | 98 | 0.00 |
| 88 | T | 2chlorotolue | 2.0246 | 2.0753 | -2.50 | 99 | 0.00 |
| 89 | T | 4chlorotolue | 2.3839 | 2.3629 | 0.88 | 97 | 0.00 |
| 90 | T | 135Trimebenz | 2.4240 | 2.4949 | -2.92 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 2.1140 | 2.1737 | -2.82 | 99 | 0.00 |
| 92 | T | 124Trimetben | 2.4149 | 2.4296 | -0.61 | 98 | 0.00 |
| 93 | T | sbutylbenzen | 2.9647 | 3.1347 | -5.73 | 101 | 0.00 |
| 94 | T | 13Diclorbenz | 1.3173 | 1.3304 | -0.99 | 99 | 0.00 |
| 95 | T | pIsopropylto | 2.5672 | 2.5879 | -0.81 | 97 | 0.00 |
| 96 | T | 14dichlorobe | 1.3341 | 1.3388 | -0.35 | 98 | 0.00 |
| 97 | T | 12dichlorobe | 1.2111 | 1.2344 | -1.92 | 99 | 0.00 |
| 98 | T | nButylbenzen | 2.3469 | 2.2995 | 2.02 | 94 | 0.00 |
| 99 | T | 12dibromo3cl | 0.1172 | 0.1196 | -2.05 | 99 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.9773 | 0.9449 | 3.32 | 95 | 0.00 |
| 101 | T | 124Trichlobe | 0.8599 | 0.7987 | 7.12 | 91 | 0.00 |
| 102 | T | Hexachlorobu | 0.5414 | 0.5307 | 1.98 | 96 | 0.00 |
| 103 | T | Naphthalene | 1.4897 | 1.5091 | -1.30 | 102 | 0.00 |
| 104 | T | 123Trichlben | 0.7647 | 0.7324 | 4.22 | 95 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS041025.M Mon Apr 14 13:05:41 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1125\CCV1.D Vial: 3
Acq On : 11 Apr 2025 8:19 Operator: RLD-DGS
Sample : 290584,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 11 08:39:48 2025

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS041025.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 0.0200 | 0.0200 | 0.00 | 105 | 0.00 |
| 2 | T | Dichlorodi | 0.0100 | 0.0106 | -6.00 | 106 | 0.00 |
| 3 | PT | Chloromethan | 0.0100 | 0.0101 | -1.00 | 111 | 0.00 |
| 4 | CT | VinylChlorid | 0.0100 | 0.0106 | -6.00 | 112 | 0.00 |
| 5 | T | Bromomethane | 0.0100 | 0.0102 | -2.00 | 116 | 0.00 |
| 6 | T | Chloroethane | 0.0100 | 0.0118 | -18.00 | 116 | 0.00 |
| 7 | T | dichloroflmethane | 0.0100 | 0.0089 | 11.00 | 94 | 0.00 |
| 8 | T | Trichlorofma | 0.0100 | 0.0103 | -3.00 | 105 | 0.00 |
| 9 | T | Ethylether | 0.0100 | 0.0099 | 1.00 | 104 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.0100 | 0.0098 | 2.00 | 106 | 0.00 |
| 11 | T | propyleneoxide | 0.1000 | 0.0981 | 1.90 | 110 | 0.00 |
| 12 | T | Acrolein | 0.0500 | 0.0479 | 4.20 | 105 | 0.00 |
| 13 | CT | 11dichlorthe | 0.0100 | 0.0100 | 0.00 | 108 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.0200 | 0.0207 | -3.50 | 106 | 0.00 |
| 15 | T | Acetone | 0.1000 | 0.0909 | 9.10 | 98 | 0.00 |
| 16 | T | Iodomethane | 0.0200 | 0.0154 | 23.00# | 89 | 0.00 |
| 17 | T | Carbon Dislf | 0.0200 | 0.0202 | -1.00 | 107 | 0.00 |
| 18 | T | allylchloride | 0.0200 | 0.0193 | 3.50 | 105 | 0.00 |
| 19 | T | methylacetate | 0.0100 | 0.0094 | 6.00 | 104 | 0.00 |
| 20 | T | Methylchlorid | 0.0100 | 0.0103 | -3.00 | 104 | 0.00 |
| 21 | T | Acrylonitrile | 0.0500 | 0.0499 | 0.20 | 106 | 0.00 |
| 22 | T | t12dichlorte | 0.0100 | 0.0097 | 3.00 | 102 | 0.00 |
| 23 | T | tbutylalcohol | 0.5000 | 0.5050 | -1.00 | 115 | 0.00 |
| 24 | T | MtBE | 0.0100 | 0.0100 | 0.00 | 114 | 0.00 |
| 25 | T | Hexane | 0.0200 | 0.0217 | -8.50 | 108 | 0.00 |
| 26 | PT | 11dichlorota | 0.0100 | 0.0097 | 3.00 | 105 | 0.00 |
| 27 | T | Vinylacetate | 0.1000 | 0.1060 | -6.00 | 106 | 0.00 |
| 28 | T | chloroprene | 0.0200 | 0.0195 | 2.50 | 103 | 0.00 |
| 29 | T | Diisopether | 0.0100 | 0.0097 | 3.00 | 102 | 0.00 |
| 30 | T | ETBE | 0.0100 | 0.0114 | -14.00 | 127 | 0.00 |
| 31 | T | 22dichloropr | 0.0100 | 0.0096 | 4.00 | 106 | 0.00 |
| 32 | T | c12dichlorte | 0.0100 | 0.0097 | 3.00 | 104 | 0.00 |
| 33 | T | 2Butanone | 0.1000 | 0.0962 | 3.80 | 103 | 0.00 |
| 34 | T | propionitrile | 0.1000 | 0.1003 | -0.30 | 111 | 0.00 |
| 35 | T | Ethylacetate | 0.0500 | 0.0546 | -9.20 | 114 | 0.00 |
| 36 | T | methacrylonitrile | 0.0200 | 0.0202 | -1.00 | 112 | 0.00 |
| 37 | T | Bromochlorma | 0.0100 | 0.0097 | 3.00 | 103 | 0.00 |
| 38 | T | Tetrahydofur | 0.1000 | 0.0993 | 0.70 | 107 | 0.00 |
| 39 | CT | Chloroform | 0.0100 | 0.0097 | 3.00 | 103 | 0.00 |
| 40 | T | 111trichlota | 0.0100 | 0.0095 | 5.00 | 101 | 0.00 |
| 41 | S | SURRDibrflma | 0.0200 | 0.0194 | 3.00 | 101 | 0.00 |
| 42 | T | Cyclohexane | 0.0100 | 0.0102 | -2.00 | 104 | 0.00 |
| 43 | T | Carbtetraclo | 0.0100 | 0.0098 | 2.00 | 102 | 0.00 |
| 44 | T | 11dicloprope | 0.0100 | 0.0097 | 3.00 | 102 | -0.01 |
| 45 | S | SURR12DCAd4 | 0.0200 | 0.0204 | -2.00 | 105 | 0.00 |
| 46 | T | Benzene | 0.0100 | 0.0099 | 1.00 | 106 | 0.00 |
| 47 | T | 12dichlorota | 0.0100 | 0.0096 | 4.00 | 100 | 0.00 |
| 48 | T | TAME | 0.0100 | 0.0129 | -29.00# | 137 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.0100 | 0.0097 | 3.00 | 101 | 0.00 |
| 50 | T | methylcyclohexane | 0.0100 | 0.0105 | -5.00 | 106 | 0.00 |
| 51 | CT | 12dicloropra | 0.0100 | 0.0099 | 1.00 | 104 | 0.00 |
| 52 | T | 23dicl1propene | 0.0100 | 0.0096 | 4.00 | 101 | 0.00 |
| 53 | T | Dibromometha | 0.0100 | 0.0099 | 1.00 | 102 | 0.00 |
| 54 | T | methylmethacrylate | 0.0100 | 0.0094 | 6.00 | 101 | 0.00 |
| 55 | T | 14dioxane | 0.5000 | 0.4966 | 0.68 | 109 | 0.00 |
| 56 | T | Bromodiclrma | 0.0100 | 0.0096 | 4.00 | 102 | 0.00 |
| 57 | T | 2Nitropropane | 0.1000 | 0.0964 | 3.60 | 102 | 0.00 |
| 58 | T | c13dicloproe | 0.0100 | 0.0096 | 4.00 | 102 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.1000 | 0.1004 | -0.40 | 103 | 0.00 |
| 60 | S | SURRd8Tolule | 0.0200 | 0.0194 | 3.00 | 102 | 0.00 |
| 61 | CT | Toluene | 0.0100 | 0.0096 | 4.00 | 101 | 0.00 |
| 62 | T | t13Dicloprop | 0.0100 | 0.0097 | 3.00 | 104 | 0.00 |
| 63 | T | ethylmethacrylate | 0.0200 | 0.0193 | 3.50 | 100 | 0.00 |
| 64 | T | 112Triclotha | 0.0100 | 0.0099 | 1.00 | 101 | 0.00 |
| 65 | T | Tetrachlorte | 0.0100 | 0.0092 | 8.00 | 97 | 0.00 |
| 66 | T | 13Diclorpropa | 0.0100 | 0.0097 | 3.00 | 102 | 0.00 |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 0.0200 | 0.0200 | 0.00 | 97 | 0.00 |
| 68 | T | 2Hexanone | 0.1000 | 0.1024 | -2.40 | 101 | 0.00 |
| 69 | T | Clorodibrmta | 0.0100 | 0.0099 | 1.00 | 98 | 0.00 |
| 70 | T | 12Dibrometha | 0.0100 | 0.0102 | -2.00 | 99 | 0.00 |
| 71 | PT | Chlorobenzen | 0.0100 | 0.0101 | -1.00 | 99 | 0.00 |
| 72 | T | 1Clhexane | 0.0100 | 0.0101 | -1.00 | 99 | 0.00 |
| 73 | T | 1112Tetclota | 0.0100 | 0.0101 | -1.00 | 100 | 0.00 |
| 74 | CT | Ethylbenzene | 0.0100 | 0.0102 | -2.00 | 100 | 0.00 |
| 75 | T | m p-Xylene | 0.0200 | 0.0204 | -2.00 | 100 | 0.00 |
| 76 | T | o-Xylene | 0.0100 | 0.0100 | 0.00 | 98 | 0.00 |
| 77 | T | Styrene | 0.0100 | 0.0101 | -1.00 | 99 | 0.00 |
| 78 | PT | Bromoform | 0.0100 | 0.0104 | -4.00 | 99 | 0.00 |
| 79 | T | Isopropylben | 0.0100 | 0.0103 | -3.00 | 100 | 0.00 |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 0.0200 | 0.0200 | 0.00 | 97 | 0.00 |
| 81 | T | cyclohexanone | 0.2000 | 0.2053 | -2.65 | 105 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.0200 | 0.0195 | 2.50 | 93 | 0.00 |
| 83 | T | Bromobenzene | 0.0100 | 0.0100 | 0.00 | 96 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.0100 | 0.0108 | -8.00 | 104 | 0.00 |
| 85 | T | 123Triclproa | 0.0100 | 0.0105 | -5.00 | 105 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0100 | 0.0095 | 5.00 | 106 | 0.00 |
| 87 | T | n-Propylbenz | 0.0100 | 0.0103 | -3.00 | 98 | 0.00 |
| 88 | T | 2chlorotolue | 0.0100 | 0.0103 | -3.00 | 99 | 0.00 |
| 89 | T | 4chlorotolue | 0.0100 | 0.0099 | 1.00 | 97 | 0.00 |
| 90 | T | 135Trimebenz | 0.0100 | 0.0103 | -3.00 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 0.0100 | 0.0103 | -3.00 | 99 | 0.00 |
| 92 | T | 124Trimetben | 0.0100 | 0.0101 | -1.00 | 98 | 0.00 |
| 93 | T | sbutylbenzen | 0.0100 | 0.0106 | -6.00 | 101 | 0.00 |
| 94 | T | 13Diclorbenz | 0.0100 | 0.0101 | -1.00 | 99 | 0.00 |
| 95 | T | pIsopropylto | 0.0100 | 0.0101 | -1.00 | 97 | 0.00 |
| 96 | T | 14dichlorobe | 0.0100 | 0.0100 | 0.00 | 98 | 0.00 |
| 97 | T | 12dichlorobe | 0.0100 | 0.0102 | -2.00 | 99 | 0.00 |
| 98 | T | nButylbenzen | 0.0100 | 0.0098 | 2.00 | 94 | 0.00 |
| 99 | T | 12dibromo3cl | 0.0100 | 0.0102 | -2.00 | 99 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.0100 | 0.0097 | 3.00 | 95 | 0.00 |
| 101 | T | 124Trichlobe | 0.0100 | 0.0093 | 7.00 | 91 | 0.00 |
| 102 | T | Hexachlorobu | 0.0100 | 0.0098 | 2.00 | 96 | 0.00 |
| 103 | T | Naphthalene | 0.0100 | 0.0101 | -1.00 | 102 | 0.00 |
| 104 | T | 123Trichlben | 0.0100 | 0.0096 | 4.00 | 95 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS041025.M Mon Apr 14 13:06:55 2025

Quantitation Report

Data File : C:\Instarch\Data\APR1125\CCV1.D Vial: 3
Acq On : 11 Apr 2025 8:19 Operator: RLD-DGS
Sample : 290584,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 08:39:48 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1032010 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 802472 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 409653 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 270280 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 95 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 53764 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1018894 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 387747 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 167953 | 0.0106 | mg/kg | 100 |
| 3) Chloromethan | 2.20 | 50 | 170020 | 0.0101 | mg/kg | 96 |
| 4) VinylChlorid | 2.36 | 62 | 182793 | 0.0106 | mg/kg | 99 |
| 5) Bromomethane | 2.85 | 94 | 119964 | 0.0102 | mg/kg | 98 |
| 6) Chloroethane | 3.01 | 64 | 116230 | 0.0118 | mg/kg | 94 |
| 7) dichloroflmethane | 3.32 | 67 | 198149 | 0.0089 | mg/kg | 96 |
| 8) Trichlorofma | 3.42 | 101 | 225201 | 0.0103 | mg/kg | 99 |
| 9) Ethylether | 3.88 | 59 | 95796 | 0.0099 | mg/kg | 97 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 132653 | 0.0098 | mg/kg | 99 |
| 11) propyleneoxide | 4.10 | 58 | 174448 | 0.0981 | mg/kg | 95 |
| 12) Acrolein | 4.01 | 56 | 93357 | 0.0479 | mg/kg | 95 |
| 13) 11dichlorthe | 4.15 | 96 | 120226 | 0.0100 | mg/kg | 98 |
| 14) Trichlorotfluoroeth | 4.20 | 101 | 226799 | 0.0207 | mg/kg | 98 |
| 15) Acetone | 4.24 | 43 | 366306 | 0.0909 | mg/kg | 100 |
| 16) Iodomethane | 4.33 | 142 | 200563 | 0.0154 | mg/kg | 96 |
| 17) Carbon Dislf | 4.43 | 76 | 623002 | 0.0202 | mg/kg | 99 |
| 18) allylchloride | 4.64 | 41 | 347967 | 0.0193 | mg/kg | 97 |
| 19) methylacetate | 4.71 | 74 | 37760 | 0.0094 | mg/kg | 98 |
| 20) Methylchlorid | 4.80 | 84 | 149438 | 0.0103 | mg/kg | 99 |
| 21) Acrylonitrile | 5.11 | 53 | 148568 | 0.0499 | mg/kg | 98 |
| 22) t12dichlorte | 5.19 | 96 | 132844 | 0.0097 | mg/kg | 96 |
| 23) tbutylalcohol | 5.04 | 59 | 342515 | 0.5050 | mg/kg | 99 |
| 24) MtBE | 5.25 | 73 | 194035 | 0.0100 | mg/kg | 98 |
| 25) Hexane | 5.58 | 57 | 340192 | 0.0217 | mg/kg | 98 |
| 26) 11dichlorota | 5.72 | 63 | 231903 | 0.0097 | mg/kg | 99 |
| 27) Vinylacetate | 5.81 | 43 | 2273885 | 0.1060 | mg/kg | 99 |
| 28) chloroprene | 5.85 | 53 | 375741 | 0.0195 | mg/kg | 98 |
| 29) Diisopether | 5.88 | 45 | 372208 | 0.0097 | mg/kg# | 99 |
| 30) ETBE | 6.34 | 59 | 65465 | 0.0114 | mg/kg | 94 |
| 31) 22dichloropr | 6.46 | 77 | 162296 | 0.0096 | mg/kg | 100 |
| 32) c12dichlorte | 6.45 | 96 | 142884 | 0.0097 | mg/kg | 95 |
| 33) 2Butanone | 6.49 | 72 | 118516 | 0.0962 | mg/kg | 99 |
| 34) propionitrile | 6.51 | 54 | 125017 | 0.1003 | mg/kg | 97 |
| 35) Ethylacetate | 6.60 | 88 | 12633 | 0.0546 | mg/kg | 95 |
| 36) methacrylonitrile | 6.71 | 67 | 79835 | 0.0202 | mg/kg | 98 |
| 37) Bromochlorma | 6.74 | 128 | 64254 | 0.0097 | mg/kg | 98 |
| 38) Tetrahydofur | 6.86 | 42 | 268832 | 0.0993 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1125\CCV1.D Vial: 3
Acq On : 11 Apr 2025 8:19 Operator: RLD-DGS
Sample : 290584,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 08:39:48 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 245243 | 0.0097 mg/kg | 100 |
| 40) | 111trichlota | 7.10 | 97 | 213247 | 0.0095 mg/kg | 97 |
| 42) | Cyclohexane | 7.19 | 56 | 198518 | 0.0102 mg/kg | 98 |
| 43) | Carbtetraclo | 7.32 | 119 | 189663 | 0.0098 mg/kg | 99 |
| 44) | 11dicloprope | 7.30 | 110 | 63259 | 0.0097 mg/kg | 98 |
| 46) | Benzene | 7.55 | 78 | 516155 | 0.0099 mg/kg | 97 |
| 47) | 12dichlorota | 7.55 | 62 | 172548 | 0.0096 mg/kg | 98 |
| 48) | TAME | 7.75 | 73 | 28953 | 0.0129 mg/kg | 94 |
| 49) | trichloroete | 8.37 | 95 | 139721 | 0.0097 mg/kg | 97 |
| 50) | methylcyclohexane | 8.64 | 83 | 223281 | 0.0105 mg/kg | 99 |
| 51) | 12dicloropra | 8.62 | 63 | 135510 | 0.0099 mg/kg | 94 |
| 52) | 23dicl1propene | 8.68 | 75 | 207737 | 0.0096 mg/kg | 99 |
| 53) | Dibromometha | 8.76 | 93 | 80699 | 0.0099 mg/kg | 99 |
| 54) | methylmethacrylate | 8.81 | 69 | 68258 | 0.0094 mg/kg | 98 |
| 55) | 14dioxane | 8.84 | 88 | 53384 | 0.4966 mg/kg | 94 |
| 56) | Bromodiclrma | 8.96 | 83 | 189621 | 0.0096 mg/kg | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 314733 | 0.0964 mg/kg | 99 |
| 58) | c13dicloproe | 9.55 | 75 | 207616 | 0.0096 mg/kg | 99 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 929936 | 0.1004 mg/kg | 98 |
| 61) | Toluene | 10.00 | 92 | 330236 | 0.0096 mg/kg | 99 |
| 62) | t13Dicloprop | 10.25 | 75 | 172803 | 0.0097 mg/kg | 97 |
| 63) | ethylmethacrylate | 10.41 | 69 | 270692 | 0.0193 mg/kg | 98 |
| 64) | 112Triclotha | 10.49 | 83 | 93605 | 0.0099 mg/kg | 99 |
| 65) | Tetrachlorte | 10.75 | 166 | 138512 | 0.0092 mg/kg | 100 |
| 66) | 13Diclorpropa | 10.72 | 76 | 178991 | 0.0097 mg/kg | 98 |
| 68) | 2Hexanone | 10.85 | 43 | 654389 | 0.1024 mg/kg | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 130345 | 0.0099 mg/kg | 99 |
| 70) | 12Dibrometha | 11.19 | 107 | 112323 | 0.0102 mg/kg | 93 |
| 71) | Chlorobenzen | 11.87 | 112 | 362118 | 0.0101 mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 176554 | 0.0101 mg/kg | 97 |
| 73) | 1112Tetclota | 11.98 | 131 | 134768 | 0.0101 mg/kg | 99 |
| 74) | Ethylbenzene | 12.04 | 91 | 630075 | 0.0102 mg/kg | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 477039 | 0.0204 mg/kg | 99 |
| 76) | o-Xylene | 12.75 | 106 | 230777 | 0.0100 mg/kg | 99 |
| 77) | Styrene | 12.76 | 104 | 380968 | 0.0101 mg/kg | 99 |
| 78) | Bromoform | 12.99 | 173 | 81723 | 0.0104 mg/kg | 99 |
| 79) | Isopropylben | 13.28 | 105 | 611435 | 0.0103 mg/kg | 98 |
| 81) | cyclohexanone | 13.37 | 55 | 208126 | 0.2053 mg/kg | 97 |
| 83) | Bromobenzene | 13.70 | 156 | 155876 | 0.0100 mg/kg | 93 |
| 84) | 1122Tetrclta | 13.65 | 83 | 140899 | 0.0108 mg/kg | 99 |
| 85) | 123Triclproa | 13.71 | 75 | 133743 | 0.0105 mg/kg | 95 |
| 86) | 14dichloro2butene | 13.87 | 53 | 3991 | 0.0095 mg/kg# | 89 |
| 87) | n-Propylbenz | 13.86 | 91 | 709918 | 0.0103 mg/kg | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 425076 | 0.0103 mg/kg | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 483978 | 0.0099 mg/kg | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 511030 | 0.0103 mg/kg | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 445241 | 0.0103 mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 497647 | 0.0101 mg/kg | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 642063 | 0.0106 mg/kg | 99 |
| 94) | 13Diclorbenz | 15.05 | 146 | 272508 | 0.0101 mg/kg | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 530062 | 0.0101 mg/kg | 100 |
| 96) | 14dichlorobe | 15.19 | 146 | 274222 | 0.0100 mg/kg | 99 |
| 97) | 12dichlorobe | 15.72 | 146 | 252829 | 0.0102 mg/kg | 99 |
| 98) | nButylbenzen | 15.72 | 91 | 470998 | 0.0098 mg/kg | 99 |
| 99) | 12dibromo3cl | 16.80 | 157 | 24490 | 0.0102 mg/kg | 99 |
| 100) | 135Trichlorobenzene | 17.13 | 180 | 193539 | 0.0097 mg/kg | 95 |
| 101) | 124Trichlobe | 17.94 | 180 | 163600 | 0.0093 mg/kg | 96 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1125\CCV1.D Vial: 3
Acq On : 11 Apr 2025 8:19 Operator: RLD-DGS
Sample : 290584,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 08:39:48 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 108707 | 0.0098 | mg/kg | 98 |
| 103) | Naphthalene | 18.24 | 128 | 309098 | 0.0101 | mg/kg | 99 |
| 104) | 123Trichlben | 18.55 | 180 | 150021 | 0.0096 | mg/kg | 99 |

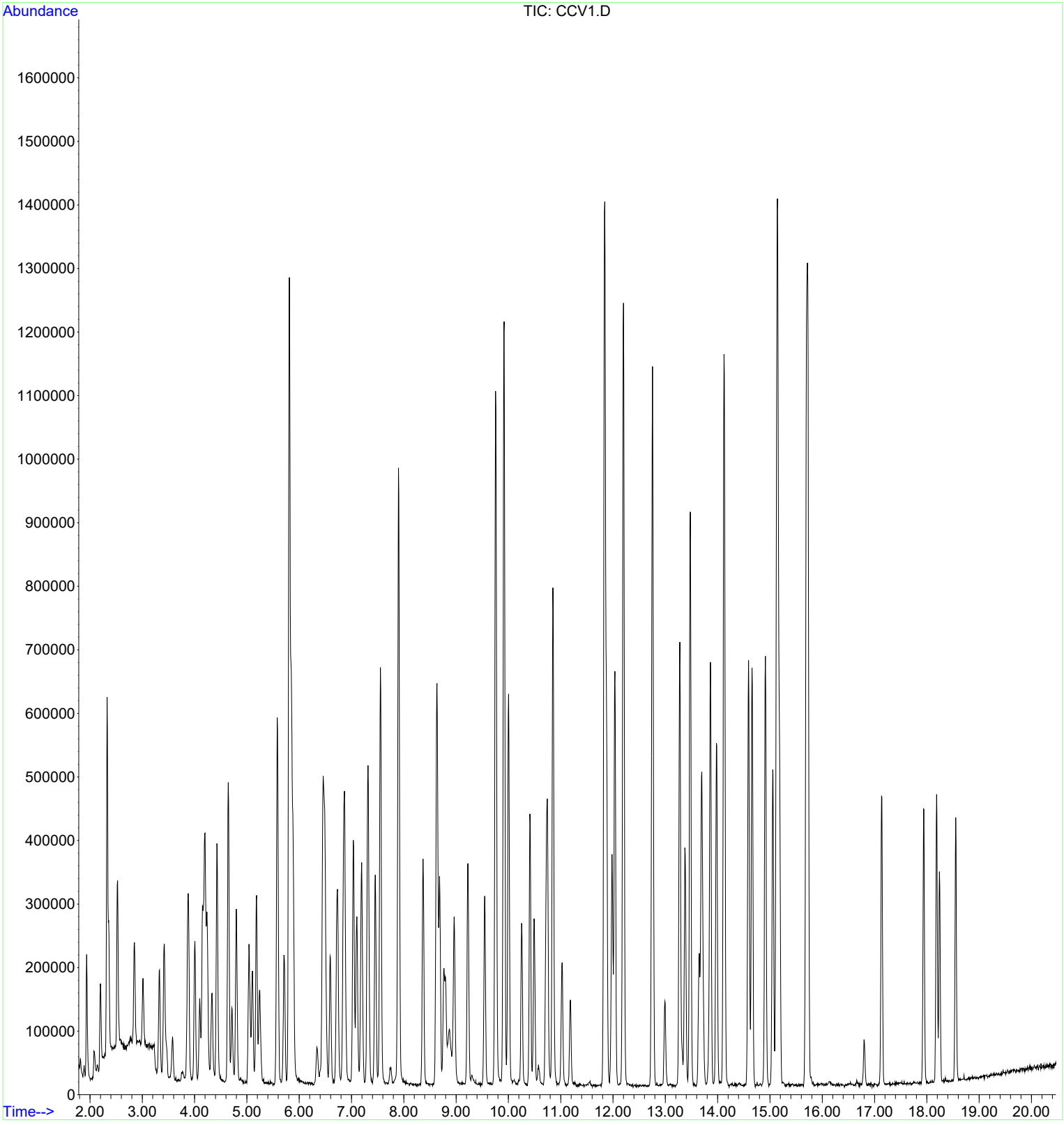
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1125\CCV1.D Vial: 3
Acq On : 11 Apr 2025 8:19 Operator: RLD-DGS
Sample : 290584,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 08:39:48 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 07:16:21 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1125\CCVF1.D Vial: 17
Acq On : 11 Apr 2025 15:33 Operator: RLD-DGS
Sample : 290584,CCVF, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 11 15:54:29 2025

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS041025.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 109 | 0.00 |
| 2 | T | Dichlorodi | 0.3075 | 0.3020 | 1.79 | 102 | 0.00 |
| 3 | PT | Chloromethan | 0.3258 | 0.3183 | 2.30 | 112 | 0.00 |
| 4 | CT | VinylChlorid | 0.3350 | 0.3587 | -7.07 | 118 | 0.00 |
| 5 | T | Bromomethane | 0.2284 | 0.2187 | 4.25 | 113 | 0.00 |
| 6 | T | Chloroethane | 0.1908 | 0.2185 | -14.52 | 116 | 0.00 |
| 7 | T | dichloroflmethane | 0.4336 | 0.4210 | 2.91 | 107 | 0.00 |
| 8 | T | Trichlorofma | 0.4245 | 0.4061 | 4.33 | 102 | 0.00 |
| 9 | T | Ethylether | 0.1881 | 0.1788 | 4.94 | 104 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2634 | 0.2494 | 5.32 | 107 | 0.00 |
| 11 | T | propyleneoxide | 0.0345 | 0.0331 | 4.06 | 112 | 0.00 |
| 12 | T | Acrolein | 0.0378 | 0.0361 | 4.50 | 109 | 0.00 |
| 13 | CT | 11dichlorthe | 0.2327 | 0.2239 | 3.78 | 108 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.2121 | 0.2142 | -0.99 | 107 | 0.00 |
| 15 | T | Acetone | 0.0781 | 0.0654 | 16.26 | 94 | 0.00 |
| 16 | T | Iodomethane | 0.2521 | 0.2136 | 15.27 | 101 | 0.00 |
| 17 | T | Carbon Dislf | 0.5989 | 0.5845 | 2.40 | 107 | 0.00 |
| 18 | T | allylchloride | 0.3494 | 0.3237 | 7.36 | 105 | 0.00 |
| 19 | T | methylacetate | 0.0776 | 0.0721 | 7.09 | 106 | 0.00 |
| 20 | T | Methylchlorid | 0.3017 | 0.2854 | 5.40 | 107 | 0.00 |
| 21 | T | Acrylonitrile | 0.0577 | 0.0555 | 3.81 | 107 | 0.00 |
| 22 | T | t12dichlorte | 0.2644 | 0.2502 | 5.37 | 103 | 0.00 |
| 23 | T | tbutylalcohol | 0.0131 | 0.0129 | 1.53 | 116 | 0.00 |
| 24 | T | MtBE | 0.3747 | 0.3696 | 1.36 | 116 | 0.00 |
| 25 | T | Hexane | 0.3038 | 0.3131 | -3.06 | 106 | 0.00 |
| 26 | PT | 11dichlorota | 0.4631 | 0.4426 | 4.43 | 107 | 0.00 |
| 27 | T | Vinylacetate | 0.4157 | 0.4297 | -3.37 | 108 | 0.00 |
| 28 | T | chloroprene | 0.3731 | 0.3500 | 6.19 | 103 | 0.00 |
| 29 | T | Diisopether | 0.7453 | 0.7294 | 2.13 | 107 | 0.00 |
| 30 | T | ETBE | 0.1314 | 0.1295 | 1.45 | 134 | 0.00 |
| 31 | T | 22dichloropr | 0.3270 | 0.3048 | 6.79 | 106 | 0.00 |
| 32 | T | c12dichlorte | 0.2848 | 0.2842 | 0.21 | 111 | 0.00 |
| 33 | T | 2Butanone | 0.0239 | 0.0228 | 4.60 | 106 | 0.00 |
| 34 | T | propionitrile | 0.0241 | 0.0235 | 2.49 | 111 | 0.00 |
| 35 | T | Ethylacetate | 0.0045 | 0.0044# | 2.22 | 106 | 0.00 |
| 36 | T | methacrylonitrile | 0.0765 | 0.0731 | 4.44 | 110 | 0.00 |
| 37 | T | Bromochlorma | 0.1286 | 0.1264 | 1.71 | 109 | 0.00 |
| 38 | T | Tetrahydofur | 0.0525 | 0.0498 | 5.14 | 107 | 0.00 |
| 39 | CT | Chloroform | 0.4892 | 0.4564 | 6.70 | 103 | 0.00 |
| 40 | T | 111trichlota | 0.4335 | 0.3949 | 8.90 | 100 | 0.00 |
| 41 | S | SURRDibrflma | 0.2699 | 0.2637 | 2.30 | 105 | 0.00 |
| 42 | T | Cyclohexane | 0.3764 | 0.3731 | 0.88 | 104 | 0.00 |
| 43 | T | Carbtetraclo | 0.3749 | 0.3452 | 7.92 | 99 | 0.00 |
| 44 | T | 11dicloprope | 0.1268 | 0.1181 | 6.86 | 102 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0511 | 0.0528 | -3.33 | 110 | 0.00 |
| 46 | T | Benzene | 1.0103 | 0.9807 | 2.93 | 108 | 0.00 |
| 47 | T | 12dichlorota | 0.3470 | 0.3144 | 9.39 | 98 | 0.00 |
| 48 | T | TAME | 0.0542 | 0.0605 | -11.62 | 154 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.2800 | 0.2691 | 3.89 | 105 | 0.00 |
| 50 | T | methylcyclohexane | 0.4133 | 0.4148 | -0.36 | 106 | 0.00 |
| 51 | CT | 12dicloropra | 0.2657 | 0.2631 | 0.98 | 109 | 0.00 |
| 52 | T | 23dicl1propene | 0.4179 | 0.3878 | 7.20 | 101 | 0.00 |
| 53 | T | Dibromometha | 0.1587 | 0.1489 | 6.18 | 100 | 0.00 |
| 54 | T | methylmethacrylate | 0.1401 | 0.1302 | 7.07 | 103 | 0.00 |
| 55 | T | 14dioxane | 0.0021 | 0.0020# | 4.76 | 112 | 0.00 |
| 56 | T | Bromodiclrma | 0.3816 | 0.3496 | 8.39 | 101 | 0.00 |
| 57 | T | 2Nitropropane | 0.0633 | 0.0573 | 9.48 | 99 | 0.00 |
| 58 | T | c13dicloproe | 0.4182 | 0.3909 | 6.53 | 103 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.1794 | 0.1753 | 2.29 | 105 | 0.00 |
| 60 | S | SURRd8Tolule | 1.0200 | 0.9853 | 3.40 | 105 | 0.00 |
| 61 | CT | Toluene | 0.6636 | 0.6382 | 3.83 | 104 | 0.00 |
| 62 | T | t13Dicloprop | 0.3460 | 0.3254 | 5.95 | 105 | 0.00 |
| 63 | T | ethylmethacrylate | 0.2719 | 0.2582 | 5.04 | 102 | 0.00 |
| 64 | T | 112Triclotha | 0.1830 | 0.1745 | 4.64 | 101 | 0.00 |
| 65 | T | Tetrachlorte | 0.2915 | 0.2683 | 7.96 | 101 | 0.00 |
| 66 | T | 13Diclorpropa | 0.3565 | 0.3474 | 2.55 | 107 | 0.00 |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 101 | 0.00 |
| 68 | T | 2Hexanone | 0.1593 | 0.1589 | 0.25 | 103 | 0.00 |
| 69 | T | Clorodibrmta | 0.3282 | 0.3038 | 7.43 | 95 | 0.00 |
| 70 | T | 12Dibrometha | 0.2741 | 0.2642 | 3.61 | 98 | 0.00 |
| 71 | PT | Chlorobenzen | 0.8915 | 0.8880 | 0.39 | 102 | 0.00 |
| 72 | T | 1Clhexane | 0.4365 | 0.4261 | 2.38 | 100 | 0.00 |
| 73 | T | 1112Tetclota | 0.3319 | 0.3288 | 0.93 | 102 | 0.00 |
| 74 | CT | Ethylbenzene | 1.5447 | 1.5329 | 0.76 | 102 | 0.00 |
| 75 | T | m p-Xylene | 0.5832 | 0.5727 | 1.80 | 100 | 0.00 |
| 76 | T | o-Xylene | 0.5729 | 0.5656 | 1.27 | 101 | 0.00 |
| 77 | T | Styrene | 0.9417 | 0.9382 | 0.37 | 102 | 0.00 |
| 78 | PT | Bromoform | 0.1960 | 0.1864 | 4.90 | 95 | 0.00 |
| 79 | T | Isopropylben | 1.4781 | 1.4796 | -0.10 | 102 | 0.00 |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 99 | 0.00 |
| 81 | T | cyclohexanone | 0.0495 | 0.0489 | 1.21 | 104 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.9694 | 0.9434 | 2.68 | 96 | 0.00 |
| 83 | T | Bromobenzene | 0.7611 | 0.7568 | 0.56 | 98 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.6347 | 0.6695 | -5.48 | 105 | 0.00 |
| 85 | T | 123Triclproa | 0.6237 | 0.6495 | -4.14 | 107 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0237 | 0.0184 | 22.36 | 103 | 0.00 |
| 87 | T | n-Propylbenz | 3.3640 | 3.4241 | -1.79 | 100 | 0.00 |
| 88 | T | 2chlorotolue | 2.0246 | 2.0350 | -0.51 | 101 | 0.00 |
| 89 | T | 4chlorotolue | 2.3839 | 2.3713 | 0.53 | 100 | 0.00 |
| 90 | T | 135Trimebenz | 2.4240 | 2.4358 | -0.49 | 101 | 0.00 |
| 91 | T | tbutylbenzen | 2.1140 | 2.0718 | 2.00 | 97 | 0.00 |
| 92 | T | 124Trimetben | 2.4149 | 2.3925 | 0.93 | 99 | 0.00 |
| 93 | T | sbutylbenzen | 2.9647 | 3.0563 | -3.09 | 102 | 0.00 |
| 94 | T | 13Diclorbenz | 1.3173 | 1.3360 | -1.42 | 102 | 0.00 |
| 95 | T | pIsopropylto | 2.5672 | 2.5436 | 0.92 | 98 | 0.00 |
| 96 | T | 14dichlorobe | 1.3341 | 1.3262 | 0.59 | 100 | 0.00 |
| 97 | T | 12dichlorobe | 1.2111 | 1.2277 | -1.37 | 101 | 0.00 |
| 98 | T | nButylbenzen | 2.3469 | 2.2694 | 3.30 | 95 | 0.00 |
| 99 | T | 12dibromo3cl | 0.1172 | 0.1143 | 2.47 | 97 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.9773 | 0.9105 | 6.84 | 94 | 0.00 |
| 101 | T | 124Trichlobe | 0.8599 | 0.8028 | 6.64 | 94 | 0.00 |
| 102 | T | Hexachlorobu | 0.5414 | 0.4999 | 7.67 | 93 | 0.00 |
| 103 | T | Naphthalene | 1.4897 | 1.5636 | -4.96 | 109 | 0.00 |
| 104 | T | 123Trichlben | 0.7647 | 0.7434 | 2.79 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS041025.M Mon Apr 14 13:07:47 2025

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR1125\CCVF1.D Vial: 17
Acq On : 11 Apr 2025 15:33 Operator: RLD-DGS
Sample : 290584,CCVF, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 11 15:54:29 2025

Quant Method : C:\INSTARCH\METHODS\LS041025.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS041025.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 0.0200 | 0.0200 | 0.00 | 109 | 0.00 |
| 2 | T | Dichlorodi | 0.0100 | 0.0098 | 2.00 | 102 | 0.00 |
| 3 | PT | Chloromethan | 0.0100 | 0.0098 | 2.00 | 112 | 0.00 |
| 4 | CT | VinylChlorid | 0.0100 | 0.0107 | -7.00 | 118 | 0.00 |
| 5 | T | Bromomethane | 0.0100 | 0.0096 | 4.00 | 113 | 0.00 |
| 6 | T | Chloroethane | 0.0100 | 0.0115 | -15.00 | 116 | 0.00 |
| 7 | T | dichloroflmethane | 0.0100 | 0.0097 | 3.00 | 107 | 0.00 |
| 8 | T | Trichlorofma | 0.0100 | 0.0096 | 4.00 | 102 | 0.00 |
| 9 | T | Ethylether | 0.0100 | 0.0095 | 5.00 | 104 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.0100 | 0.0095 | 5.00 | 107 | 0.00 |
| 11 | T | propyleneoxide | 0.1000 | 0.0960 | 4.00 | 112 | 0.00 |
| 12 | T | Acrolein | 0.0500 | 0.0478 | 4.40 | 109 | 0.00 |
| 13 | CT | 11dichlorthe | 0.0100 | 0.0096 | 4.00 | 108 | 0.00 |
| 14 | T | Trichlorotfluoroeth | 0.0200 | 0.0202 | -1.00 | 107 | 0.00 |
| 15 | T | Acetone | 0.1000 | 0.0837 | 16.30 | 94 | 0.00 |
| 16 | T | Iodomethane | 0.0200 | 0.0169 | 15.50 | 101 | 0.00 |
| 17 | T | Carbon Dislf | 0.0200 | 0.0195 | 2.50 | 107 | 0.00 |
| 18 | T | allylchloride | 0.0200 | 0.0185 | 7.50 | 105 | 0.00 |
| 19 | T | methylacetate | 0.0100 | 0.0093 | 7.00 | 106 | 0.00 |
| 20 | T | Methylchlorid | 0.0100 | 0.0102 | -2.00 | 107 | 0.00 |
| 21 | T | Acrylonitrile | 0.0500 | 0.0481 | 3.80 | 107 | 0.00 |
| 22 | T | t12dichlorte | 0.0100 | 0.0095 | 5.00 | 103 | 0.00 |
| 23 | T | tbutylalcohol | 0.5000 | 0.4889 | 2.22 | 116 | 0.00 |
| 24 | T | MtBE | 0.0100 | 0.0099 | 1.00 | 116 | 0.00 |
| 25 | T | Hexane | 0.0200 | 0.0206 | -3.00 | 106 | 0.00 |
| 26 | PT | 11dichlorota | 0.0100 | 0.0096 | 4.00 | 107 | 0.00 |
| 27 | T | Vinylacetate | 0.1000 | 0.1034 | -3.40 | 108 | 0.00 |
| 28 | T | chloroprene | 0.0200 | 0.0188 | 6.00 | 103 | 0.00 |
| 29 | T | Diisopether | 0.0100 | 0.0098 | 2.00 | 107 | 0.00 |
| 30 | T | ETBE | 0.0100 | 0.0116 | -16.00 | 134 | 0.00 |
| 31 | T | 22dichloropr | 0.0100 | 0.0093 | 7.00 | 106 | 0.00 |
| 32 | T | c12dichlorte | 0.0100 | 0.0100 | 0.00 | 111 | 0.00 |
| 33 | T | 2Butanone | 0.1000 | 0.0954 | 4.60 | 106 | 0.00 |
| 34 | T | propionitrile | 0.1000 | 0.0973 | 2.70 | 111 | 0.00 |
| 35 | T | Ethylacetate | 0.0500 | 0.0487 | 2.60 | 106 | 0.00 |
| 36 | T | methacrylonitrile | 0.0200 | 0.0191 | 4.50 | 110 | 0.00 |
| 37 | T | Bromochlorma | 0.0100 | 0.0098 | 2.00 | 109 | 0.00 |
| 38 | T | Tetrahydofur | 0.1000 | 0.0949 | 5.10 | 107 | 0.00 |
| 39 | CT | Chloroform | 0.0100 | 0.0093 | 7.00 | 103 | 0.00 |
| 40 | T | 111trichlota | 0.0100 | 0.0091 | 9.00 | 100 | 0.00 |
| 41 | S | SURRDibrflma | 0.0200 | 0.0195 | 2.50 | 105 | 0.00 |
| 42 | T | Cyclohexane | 0.0100 | 0.0099 | 1.00 | 104 | 0.00 |
| 43 | T | Carbtetraclo | 0.0100 | 0.0092 | 8.00 | 99 | 0.00 |
| 44 | T | 11dicloprope | 0.0100 | 0.0093 | 7.00 | 102 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0200 | 0.0206 | -3.00 | 110 | 0.00 |
| 46 | T | Benzene | 0.0100 | 0.0097 | 3.00 | 108 | 0.00 |
| 47 | T | 12dichlorota | 0.0100 | 0.0091 | 9.00 | 98 | 0.00 |
| 48 | T | TAME | 0.0100 | 0.0137 | -37.00 | 154 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | T | trichloroete | 0.0100 | 0.0096 | 4.00 | 105 | 0.00 |
| 50 | T | methylcyclohexane | 0.0100 | 0.0100 | 0.00 | 106 | 0.00 |
| 51 | CT | 12dicloropra | 0.0100 | 0.0099 | 1.00 | 109 | 0.00 |
| 52 | T | 23dicl1propene | 0.0100 | 0.0093 | 7.00 | 101 | 0.00 |
| 53 | T | Dibromometha | 0.0100 | 0.0094 | 6.00 | 100 | 0.00 |
| 54 | T | methylmethacrylate | 0.0100 | 0.0093 | 7.00 | 103 | 0.00 |
| 55 | T | 14dioxane | 0.5000 | 0.4892 | 2.16 | 112 | 0.00 |
| 56 | T | Bromodiclrma | 0.0100 | 0.0092 | 8.00 | 101 | 0.00 |
| 57 | T | 2Nitropropane | 0.1000 | 0.0905 | 9.50 | 99 | 0.00 |
| 58 | T | c13dicloproe | 0.0100 | 0.0093 | 7.00 | 103 | 0.00 |
| 59 | T | 4Meth2Pentan | 0.1000 | 0.0977 | 2.30 | 105 | 0.00 |
| 60 | S | SURRd8Tolule | 0.0200 | 0.0193 | 3.50 | 105 | 0.00 |
| 61 | CT | Toluene | 0.0100 | 0.0096 | 4.00 | 104 | 0.00 |
| 62 | T | t13Dicloprop | 0.0100 | 0.0094 | 6.00 | 105 | 0.00 |
| 63 | T | ethylmethacrylate | 0.0200 | 0.0190 | 5.00 | 102 | 0.00 |
| 64 | T | 112Triclotha | 0.0100 | 0.0095 | 5.00 | 101 | 0.00 |
| 65 | T | Tetrachlorte | 0.0100 | 0.0092 | 8.00 | 101 | 0.00 |
| 66 | T | 13Diclorpropa | 0.0100 | 0.0097 | 3.00 | 107 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 0.0200 | 0.0200 | 0.00 | 101 | 0.00 |
| 68 | T | 2Hexanone | 0.1000 | 0.0998 | 0.20 | 103 | 0.00 |
| 69 | T | Clorodibrmta | 0.0100 | 0.0093 | 7.00 | 95 | 0.00 |
| 70 | T | 12Dibrometha | 0.0100 | 0.0096 | 4.00 | 98 | 0.00 |
| 71 | PT | Chlorobenzen | 0.0100 | 0.0100 | 0.00 | 102 | 0.00 |
| 72 | T | 1Clhexane | 0.0100 | 0.0098 | 2.00 | 100 | 0.00 |
| 73 | T | 1112Tetclota | 0.0100 | 0.0099 | 1.00 | 102 | 0.00 |
| 74 | CT | Ethylbenzene | 0.0100 | 0.0099 | 1.00 | 102 | 0.00 |
| 75 | T | m p-Xylene | 0.0200 | 0.0196 | 2.00 | 100 | 0.00 |
| 76 | T | o-Xylene | 0.0100 | 0.0099 | 1.00 | 101 | 0.00 |
| 77 | T | Styrene | 0.0100 | 0.0100 | 0.00 | 102 | 0.00 |
| 78 | PT | Bromoform | 0.0100 | 0.0095 | 5.00 | 95 | 0.00 |
| 79 | T | Isopropylben | 0.0100 | 0.0100 | 0.00 | 102 | 0.00 |
| | | | | | | | |
| 80 | I | d4-1,4-DICHLOROBENZENE**IS | 0.0200 | 0.0200 | 0.00 | 99 | 0.00 |
| 81 | T | cyclohexanone | 0.2000 | 0.1977 | 1.15 | 104 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.0200 | 0.0195 | 2.50 | 96 | 0.00 |
| 83 | T | Bromobenzene | 0.0100 | 0.0099 | 1.00 | 98 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.0100 | 0.0105 | -5.00 | 105 | 0.00 |
| 85 | T | 123Triclproa | 0.0100 | 0.0104 | -4.00 | 107 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0100 | 0.0089 | 11.00 | 103 | 0.00 |
| 87 | T | n-Propylbenz | 0.0100 | 0.0102 | -2.00 | 100 | 0.00 |
| 88 | T | 2chlorotolue | 0.0100 | 0.0101 | -1.00 | 101 | 0.00 |
| 89 | T | 4chlorotolue | 0.0100 | 0.0099 | 1.00 | 100 | 0.00 |
| 90 | T | 135Trimebenz | 0.0100 | 0.0100 | 0.00 | 101 | 0.00 |
| 91 | T | tbutylbenzen | 0.0100 | 0.0098 | 2.00 | 97 | 0.00 |
| 92 | T | 124Trimetben | 0.0100 | 0.0099 | 1.00 | 99 | 0.00 |
| 93 | T | sbutylbenzen | 0.0100 | 0.0103 | -3.00 | 102 | 0.00 |
| 94 | T | 13Diclorbenz | 0.0100 | 0.0101 | -1.00 | 102 | 0.00 |
| 95 | T | pIsopropylto | 0.0100 | 0.0099 | 1.00 | 98 | 0.00 |
| 96 | T | 14dichlorobe | 0.0100 | 0.0099 | 1.00 | 100 | 0.00 |
| 97 | T | 12dichlorobe | 0.0100 | 0.0101 | -1.00 | 101 | 0.00 |
| 98 | T | nButylbenzen | 0.0100 | 0.0097 | 3.00 | 95 | 0.00 |
| 99 | T | 12dibromo3cl | 0.0100 | 0.0098 | 2.00 | 97 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.0100 | 0.0093 | 7.00 | 94 | 0.00 |
| 101 | T | 124Trichlobe | 0.0100 | 0.0093 | 7.00 | 94 | 0.00 |
| 102 | T | Hexachlorobu | 0.0100 | 0.0092 | 8.00 | 93 | 0.00 |
| 103 | T | Naphthalene | 0.0100 | 0.0105 | -5.00 | 109 | 0.00 |
| 104 | T | 123Trichlben | 0.0100 | 0.0097 | 3.00 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS041025.M Mon Apr 14 13:07:27 2025

Quantitation Report

Data File : C:\Instarch\Data\APR1125\CCVF1.D Vial: 17
Acq On : 11 Apr 2025 15:33 Operator: RLD-DGS
Sample : 290584,CCVF, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 15:54:29 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1071978 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 838890 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 422173 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 282679 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 56552 | 0.021 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 105 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1056236 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 398283 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 95 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 161892 | 0.0098 | mg/kg | 98 |
| 3) Chloromethan | 2.20 | 50 | 170590 | 0.0098 | mg/kg | 99 |
| 4) VinylChlorid | 2.36 | 62 | 192247 | 0.0107 | mg/kg | 95 |
| 5) Bromomethane | 2.85 | 94 | 117214 | 0.0096 | mg/kg | 97 |
| 6) Chloroethane | 3.01 | 64 | 117107 | 0.0115 | mg/kg | 98 |
| 7) dichloroflmethane | 3.32 | 67 | 225657 | 0.0097 | mg/kg | 99 |
| 8) Trichlorofma | 3.42 | 101 | 217651 | 0.0096 | mg/kg | 97 |
| 9) Ethylether | 3.88 | 59 | 95845 | 0.0095 | mg/kg | 98 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 133684 | 0.0095 | mg/kg | 99 |
| 11) propyleneoxide | 4.10 | 58 | 177354 | 0.0960 | mg/kg | 96 |
| 12) Acrolein | 4.01 | 56 | 96833 | 0.0478 | mg/kg | 100 |
| 13) 11dichlorthe | 4.15 | 96 | 120019 | 0.0096 | mg/kg | 97 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 229586 | 0.0202 | mg/kg | 99 |
| 15) Acetone | 4.24 | 43 | 350736 | 0.0837 | mg/kg | 100 |
| 16) Iodomethane | 4.33 | 142 | 228966 | 0.0169 | mg/kg | 96 |
| 17) Carbon Dislf | 4.43 | 76 | 626601 | 0.0195 | mg/kg | 98 |
| 18) allylchloride | 4.64 | 41 | 347007 | 0.0185 | mg/kg | 96 |
| 19) methylacetate | 4.71 | 74 | 38635 | 0.0093 | mg/kg | 98 |
| 20) Methylchlorid | 4.80 | 84 | 152946 | 0.0102 | mg/kg | 98 |
| 21) Acrylonitrile | 5.11 | 53 | 148808 | 0.0481 | mg/kg | 99 |
| 22) t12dichlorte | 5.19 | 96 | 134082 | 0.0095 | mg/kg | 96 |
| 23) tbutylalcohol | 5.04 | 59 | 344448 | 0.4889 | mg/kg | 98 |
| 24) MtBE | 5.25 | 73 | 198102 | 0.0099 | mg/kg | 97 |
| 25) Hexane | 5.58 | 57 | 335621 | 0.0206 | mg/kg | 99 |
| 26) 11dichlorota | 5.71 | 63 | 237253 | 0.0096 | mg/kg | 99 |
| 27) Vinylacetate | 5.81 | 43 | 2303359 | 0.1034 | mg/kg | 99 |
| 28) chloroprene | 5.84 | 53 | 375168 | 0.0188 | mg/kg | 98 |
| 29) Diisopether | 5.88 | 45 | 390947 | 0.0098 | mg/kg# | 99 |
| 30) ETBE | 6.34 | 59 | 69388 | 0.0116 | mg/kg | 94 |
| 31) 22dichloropr | 6.46 | 77 | 163356 | 0.0093 | mg/kg | 98 |
| 32) c12dichlorte | 6.45 | 96 | 152329 | 0.0100 | mg/kg | 95 |
| 33) 2Butanone | 6.49 | 72 | 122199 | 0.0954 | mg/kg | 100 |
| 34) propionitrile | 6.51 | 54 | 125914 | 0.0973 | mg/kg | 97 |
| 35) Ethylacetate | 6.60 | 88 | 11713 | 0.0487 | mg/kg# | 93 |
| 36) methacrylonitrile | 6.72 | 67 | 78344 | 0.0191 | mg/kg | 96 |
| 37) Bromochlorma | 6.74 | 128 | 67752 | 0.0098 | mg/kg | 97 |
| 38) Tetrahydofur | 6.87 | 42 | 266883 | 0.0949 | mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1125\CCVF1.D Vial: 17
Acq On : 11 Apr 2025 15:33 Operator: RLD-DGS
Sample : 290584,CCVF, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 15:54:29 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 6.85 | 83 | 244637 | 0.0093 mg/kg | 97 |
| 40) 111trichlota | 7.10 | 97 | 211667 | 0.0091 mg/kg | 99 |
| 42) Cyclohexane | 7.19 | 56 | 199951 | 0.0099 mg/kg | 100 |
| 43) Carbtetraclo | 7.32 | 119 | 185020 | 0.0092 mg/kg | 99 |
| 44) 11dicloprope | 7.31 | 110 | 63304 | 0.0093 mg/kg | 99 |
| 46) Benzene | 7.56 | 78 | 525667 | 0.0097 mg/kg | 98 |
| 47) 12dichlorota | 7.55 | 62 | 168519 | 0.0091 mg/kg | 97 |
| 48) TAME | 7.74 | 73 | 32430 | 0.0137 mg/kg | 94 |
| 49) trichloroete | 8.37 | 95 | 144257 | 0.0096 mg/kg | 99 |
| 50) methylcyclohexane | 8.64 | 83 | 222326 | 0.0100 mg/kg | 98 |
| 51) 12dicloropra | 8.62 | 63 | 141029 | 0.0099 mg/kg | 99 |
| 52) 23dicl1propene | 8.68 | 75 | 207879 | 0.0093 mg/kg | 100 |
| 53) Dibromometha | 8.76 | 93 | 79794 | 0.0094 mg/kg | 97 |
| 54) methylmethacrylate | 8.80 | 69 | 69773 | 0.0093 mg/kg | 97 |
| 55) 14dioxane | 8.84 | 88 | 54618 | 0.4892 mg/kg | 94 |
| 56) Bromodiclrma | 8.96 | 83 | 187401 | 0.0092 mg/kg | 98 |
| 57) 2Nitropropane | 9.23 | 43 | 306865 | 0.0905 mg/kg | 98 |
| 58) c13dicloproe | 9.55 | 75 | 209509 | 0.0093 mg/kg | 100 |
| 59) 4Meth2Pentan | 9.75 | 43 | 939839 | 0.0977 mg/kg | 98 |
| 61) Toluene | 10.00 | 92 | 342093 | 0.0096 mg/kg | 100 |
| 62) t13Dicloprop | 10.25 | 75 | 174430 | 0.0094 mg/kg | 95 |
| 63) ethylmethacrylate | 10.42 | 69 | 276820 | 0.0190 mg/kg | 97 |
| 64) 112Triclotha | 10.50 | 83 | 93555 | 0.0095 mg/kg | 96 |
| 65) Tetrachlorte | 10.75 | 166 | 143783 | 0.0092 mg/kg | 97 |
| 66) 13Diclorpropa | 10.72 | 76 | 186179 | 0.0097 mg/kg | 100 |
| 68) 2Hexanone | 10.85 | 43 | 666472 | 0.0998 mg/kg | 98 |
| 69) Clorodibrmta | 11.03 | 129 | 127435 | 0.0093 mg/kg | 98 |
| 70) 12Dibrometha | 11.18 | 107 | 110821 | 0.0096 mg/kg | 96 |
| 71) Chlorobenzen | 11.88 | 112 | 372471 | 0.0100 mg/kg | 99 |
| 72) 1Clhexane | 11.85 | 91 | 178740 | 0.0098 mg/kg | 98 |
| 73) 1112Tetclota | 11.98 | 131 | 137901 | 0.0099 mg/kg | 98 |
| 74) Ethylbenzene | 12.04 | 91 | 642953 | 0.0099 mg/kg | 100 |
| 75) m p-Xylene | 12.20 | 106 | 480473 | 0.0196 mg/kg | 99 |
| 76) o-Xylene | 12.75 | 106 | 237253 | 0.0099 mg/kg | 100 |
| 77) Styrene | 12.76 | 104 | 393544 | 0.0100 mg/kg | 99 |
| 78) Bromoform | 12.99 | 173 | 78166 | 0.0095 mg/kg | 100 |
| 79) Isopropylben | 13.28 | 105 | 620605 | 0.0100 mg/kg | 99 |
| 81) cyclohexanone | 13.38 | 55 | 206532 | 0.1977 mg/kg | 98 |
| 83) Bromobenzene | 13.69 | 156 | 159741 | 0.0099 mg/kg | 94 |
| 84) 1122Tetrclta | 13.64 | 83 | 141329 | 0.0105 mg/kg | 97 |
| 85) 123Triclproa | 13.72 | 75 | 137101 | 0.0104 mg/kg | 94 |
| 86) 14dichloro2butene | 13.87 | 53 | 3885 | 0.0089 mg/kg# | 96 |
| 87) n-Propylbenz | 13.86 | 91 | 722783 | 0.0102 mg/kg | 99 |
| 88) 2chlorotolue | 13.98 | 91 | 429562 | 0.0101 mg/kg | 99 |
| 89) 4chlorotolue | 14.13 | 91 | 500547 | 0.0099 mg/kg | 99 |
| 90) 135Trimebenz | 14.12 | 105 | 514160 | 0.0100 mg/kg | 99 |
| 91) tbutylbenzen | 14.59 | 119 | 437335 | 0.0098 mg/kg | 99 |
| 92) 124Trimetben | 14.66 | 105 | 505034 | 0.0099 mg/kg | 99 |
| 93) sbutylbenzen | 14.91 | 105 | 645136 | 0.0103 mg/kg | 99 |
| 94) 13Diclorbenz | 15.06 | 146 | 282015 | 0.0101 mg/kg | 99 |
| 95) pIsopropylto | 15.13 | 119 | 536918 | 0.0099 mg/kg | 99 |
| 96) 14dichlorobe | 15.18 | 146 | 279936 | 0.0099 mg/kg | 99 |
| 97) 12dichlorobe | 15.72 | 146 | 259161 | 0.0101 mg/kg | 100 |
| 98) nButylbenzen | 15.72 | 91 | 479030 | 0.0097 mg/kg | 99 |
| 99) 12dibromo3cl | 16.81 | 157 | 24136 | 0.0098 mg/kg | 96 |
| 100) 135Trichlorobenzene | 17.14 | 180 | 192204 | 0.0093 mg/kg | 99 |
| 101) 124Trichlobe | 17.94 | 180 | 169457 | 0.0093 mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1125\CCVF1.D Vial: 17
Acq On : 11 Apr 2025 15:33 Operator: RLD-DGS
Sample : 290584,CCVF, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 15:54:29 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 105520 | 0.0092 | mg/kg | 99 |
| 103) | Naphthalene | 18.24 | 128 | 330053 | 0.0105 | mg/kg | 99 |
| 104) | 123Trichlben | 18.55 | 180 | 156927 | 0.0097 | mg/kg | 98 |

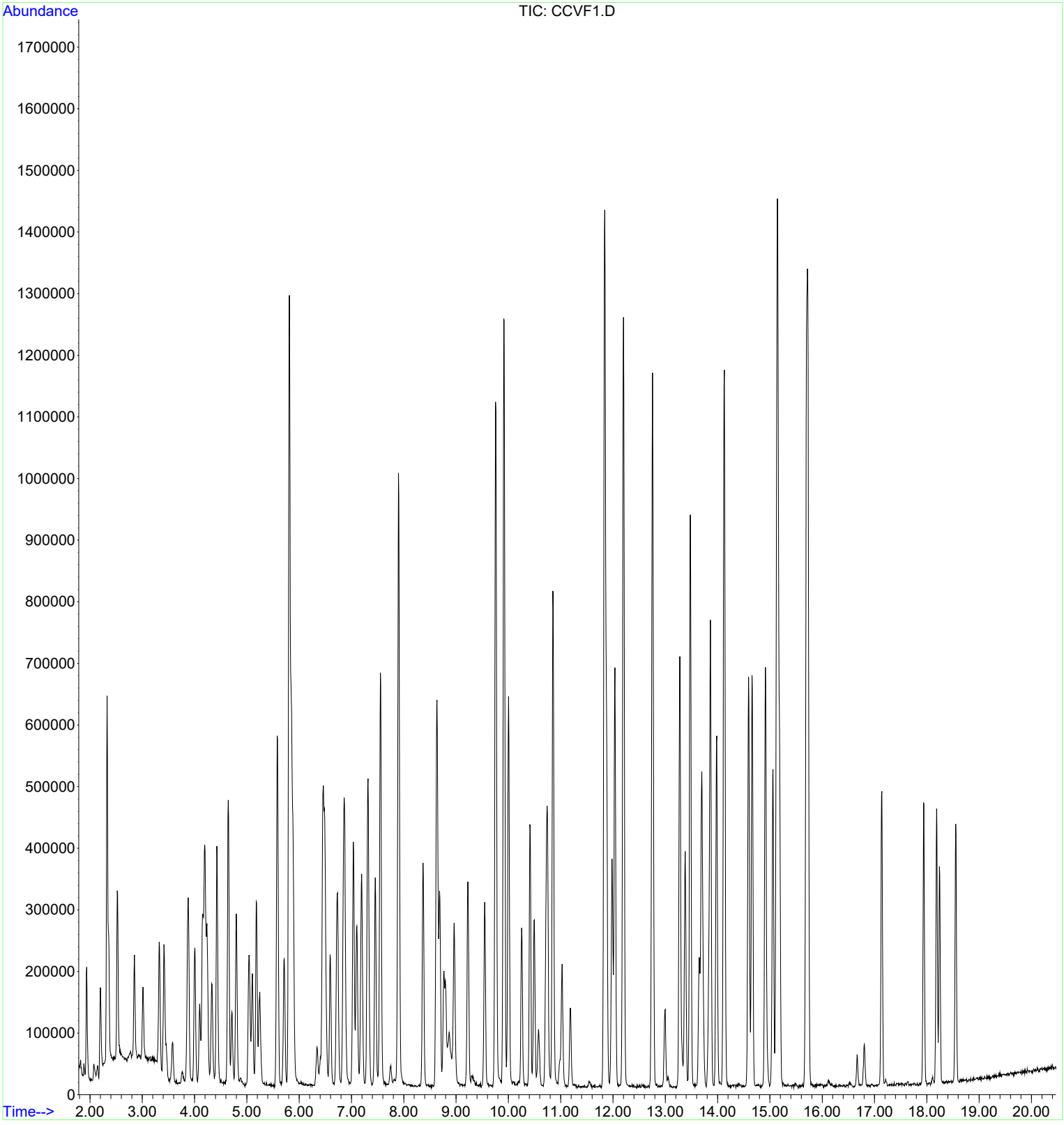
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR1125\CCVF1.D Vial: 17
Acq On : 11 Apr 2025 15:33 Operator: RLD-DGS
Sample : 290584,CCVF, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 15:54:29 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Data File : C:\Instarch\Data\APR1425\BFB1.D  Vial: 1
Acq On : 14 Apr 2025 7:49  Operator: RLD-DGS
Sample : 290576,BFB,  Inst : VMS4
Misc : 50 ng Injection  Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW041325.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.949 to 4.952 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 15.3 | 9596 | PASS |
| 75 | 95 | 30 | 60 | 45.2 | 28420 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 62880 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 4257 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 232 | PASS |
| 174 | 95 | 50 | 100 | 84.7 | 53248 | PASS |
| 175 | 174 | 5 | 9 | 8.3 | 4445 | PASS |
| 176 | 174 | 95 | 101 | 98.9 | 52672 | PASS |
| 177 | 176 | 5 | 9 | 7.3 | 3834 | PASS |

LW041325.M Wed Apr 16 10:15:23 2025

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR1425\CCV-LCS1.D Vial: 3
Acq On : 14 Apr 2025 8:32 Operator: RLD-DGS
Sample : 290576,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 14 08:53:11 2025

Quant Method : C:\INSTARCH\METHODS\LW041325.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW041325.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 100 | 0.00 |
| 2 | PT | Dichlorodi | 0.2747 | 0.2983 | -8.59 | 104 | 0.00 |
| 3 | PT | Chloromethan | 0.3364 | 0.3254 | 3.27 | 103 | 0.00 |
| 4 | PT | VinylChlorid | 0.3418 | 0.3428 | -0.29 | 101 | 0.00 |
| 5 | PT | Bromomethane | 0.2175 | 0.2171 | 0.18 | 110 | 0.00 |
| 6 | PT | Chloroethane | 0.2135 | 0.1983 | 7.12 | 96 | 0.00 |
| 7 | T | Dichloroflmethane | 0.4257 | 0.3998 | 6.08 | 98 | 0.00 |
| 8 | PT | Trichlorofma | 0.3841 | 0.4132 | -7.58 | 102 | 0.00 |
| 9 | T | Ethylether | 0.1334 | 0.1214 | 9.00 | 97 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2616 | 0.2746 | -4.97 | 103 | 0.00 |
| 11 | T | propyleneoxide | 0.0176 | 0.0159# | 9.66 | 95 | 0.00 |
| 12 | T | Acrolein | 0.0193 | 0.0175# | 9.33 | 101 | 0.00 |
| 13 | PT | 11dichlorthe | 0.2269 | 0.2296 | -1.19 | 103 | 0.00 |
| 14 | PT | Trichlorotfluoroeth | 0.2055 | 0.2211 | -7.59 | 102 | 0.00 |
| 15 | PT | Acetone | 0.0430 | 0.0363# | 15.58 | 95 | 0.00 |
| 16 | T | Iodomethane | 0.2456 | 0.2397 | 2.40 | 90 | 0.00 |
| 17 | PT | Carbon Dislf | 0.4505 | 0.4590 | -1.89 | 104 | 0.00 |
| 18 | T | allylchloride | 0.3254 | 0.3206 | 1.48 | 101 | 0.00 |
| 19 | PT | methylacetate | 0.0365 | 0.0306# | 16.16 | 90 | 0.00 |
| 20 | PT | Methylchlorid | 0.2622 | 0.2244 | 14.42 | 100 | 0.00 |
| 21 | T | tbutylalcohol | 0.0056 | 0.0048# | 14.29 | 94 | 0.00 |
| 22 | T | Acrylonitrile | 0.0276 | 0.0262# | 5.07 | 102 | 0.00 |
| 23 | PT | t12dichlorte | 0.2435 | 0.2387 | 1.97 | 103 | 0.00 |
| 24 | PT | MtBE | 0.2699 | 0.2371 | 12.15 | 93 | 0.00 |
| 25 | T | Hexane | 0.3020 | 0.3238 | -7.22 | 101 | 0.00 |
| 26 | PT | 11dichlorota | 0.4484 | 0.4467 | 0.38 | 104 | 0.00 |
| 27 | T | Vinylacetate | 0.1857 | 0.1734 | 6.62 | 105 | 0.00 |
| 28 | T | chloroprene | 0.3468 | 0.3575 | -3.09 | 101 | 0.00 |
| 29 | T | Diisopether | 0.6296 | 0.6028 | 4.26 | 99 | 0.00 |
| 30 | T | ETBE | 0.1408 | 0.1168 | 17.05 | 89 | 0.00 |
| 31 | T | 22dichloropr | 0.3228 | 0.3368 | -4.34 | 108 | 0.00 |
| 32 | PT | c12dichlorte | 0.2656 | 0.2573 | 3.13 | 103 | 0.00 |
| 33 | PT | 2Butanone | 0.0121 | 0.0110# | 9.09 | 95 | 0.00 |
| 34 | T | propionitrile | 0.0107 | 0.0102# | 4.67 | 101 | 0.00 |
| 35 | T | Ethylacetate | 0.0021 | 0.0019# | 9.52 | 95 | 0.00 |
| 36 | T | methacrylonitrile | 0.0378 | 0.0330 | 12.70 | 94 | 0.00 |
| 37 | T | Bromochlorma | 0.0974 | 0.0925 | 5.03 | 96 | 0.00 |
| 38 | T | Tetrahydofur | 0.0242 | 0.0202# | 16.53 | 92 | 0.00 |
| 39 | PT | Chloroform | 0.4569 | 0.4327 | 5.30 | 101 | 0.00 |
| 40 | PT | 111trichlota | 0.3982 | 0.4076 | -2.36 | 101 | 0.00 |
| 41 | S | SURRDibrflma | 0.2498 | 0.2478 | 0.80 | 98 | 0.00 |
| 42 | PT | Cyclohexane | 0.3741 | 0.3970 | -6.12 | 101 | 0.00 |
| 43 | PT | Carbtetraclo | 0.3474 | 0.3595 | -3.48 | 102 | 0.00 |
| 44 | T | 11dicloprope | 0.1181 | 0.1235 | -4.57 | 103 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0428 | 0.0412 | 3.74 | 98 | -0.01 |
| 46 | PT | Benzene | 1.0047 | 0.9822 | 2.24 | 102 | 0.00 |
| 47 | PT | 12dichlorota | 0.0426 | 0.0408 | 9.40 | 99 | 0.00 |
| 48 | T | TAME | 0.0612 | 0.0505 | 17.48 | 86 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | PT | trichloroete | 0.2700 | 0.2605 | 3.52 | 100 | 0.00 |
| 50 | PT | methylcyclohexane | 0.4246 | 0.4602 | -8.38 | 103 | 0.00 |
| 51 | PT | 12dicloropra | 0.2430 | 0.2318 | 4.61 | 101 | 0.00 |
| 52 | T | 23Dicl1propene | 0.3708 | 0.3663 | 1.21 | 101 | 0.00 |
| 53 | T | Dibromometha | 0.1007 | 0.0935 | 7.15 | 99 | 0.00 |
| 54 | T | methylmethacrylate | 0.0707 | 0.0677 | 4.24 | 98 | 0.00 |
| 55 | T | 14dioxane | 0.0009 | 0.0008# | 11.11 | 95 | 0.00 |
| 56 | PT | Bromodiclrma | 0.3022 | 0.2846 | 5.82 | 98 | 0.00 |
| 57 | T | 2Nitropropane | 0.0253 | 0.0238# | 5.93 | 97 | 0.00 |
| 58 | PT | c13dicloproe | 0.3215 | 0.3130 | 2.64 | 99 | 0.00 |
| 59 | PT | 4Meth2Pentan | 0.0788 | 0.0703# | 10.79 | 94 | 0.00 |
| 60 | S | SURRd8Tolule | 0.9977 | 0.9894 | 0.83 | 100 | 0.00 |
| 61 | PT | Toluene | 0.6310 | 0.6253 | 0.90 | 101 | 0.00 |
| 62 | PT | t13Dicloprop | 0.2275 | 0.2183 | 4.04 | 99 | 0.00 |
| 63 | T | ethylmethacrylate | 0.1415 | 0.1326 | 6.29 | 95 | 0.00 |
| 64 | PT | 112Triclotha | 0.1137 | 0.1086 | 4.49 | 99 | 0.00 |
| 65 | PT | Tetrachlorte | 0.2834 | 0.2896 | -2.19 | 102 | 0.00 |
| 66 | T | 13Diclorpropa | 0.2344 | 0.2164 | 7.68 | 99 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 99 | 0.00 |
| 68 | PT | 2Hexanone | 0.0818 | 0.0714# | 12.71 | 93 | 0.00 |
| 69 | PT | Clorodibrmta | 0.2373 | 0.2307 | 2.78 | 98 | 0.00 |
| 70 | PT | 12Dibrometha | 0.1758 | 0.1638 | 6.83 | 97 | 0.00 |
| 71 | PT | Chlorobenzen | 0.8838 | 0.8884 | -0.52 | 102 | 0.00 |
| 72 | T | 1Clhexane | 0.4639 | 0.4714 | -1.62 | 101 | 0.00 |
| 73 | T | 1112Tetclota | 0.2984 | 0.2932 | 1.74 | 98 | 0.00 |
| 74 | PT | Ethylbenzene | 1.6196 | 1.6106 | 0.56 | 100 | 0.00 |
| 75 | PT | m p-Xylene | 0.6219 | 0.6331 | -1.80 | 103 | 0.00 |
| 76 | PT | o-Xylene | 0.6004 | 0.5957 | 0.78 | 102 | 0.00 |
| 77 | PT | Styrene | 0.8941 | 0.8994 | -0.59 | 100 | 0.00 |
| 78 | PT | Bromoform | 0.1121 | 0.1115 | 0.54 | 97 | 0.00 |
| 79 | PT | Isopropylben | 1.5798 | 1.6244 | -2.82 | 101 | 0.00 |
| 80 | T | cyclohexanone | 0.0179 | 0.0152# | 15.08 | 90 | 0.00 |
| | | | | | | | |
| 81 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 98 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.8993 | 0.8973 | 0.22 | 100 | 0.00 |
| 83 | T | Bromobenzene | 0.6809 | 0.6713 | 1.41 | 99 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.3607 | 0.3451 | 4.32 | 99 | 0.00 |
| 85 | T | 123Triclproa | 0.3753 | 0.3480 | 7.27 | 95 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0223 | 0.0213# | 4.48 | 95 | 0.00 |
| 87 | T | n-Propylbenz | 3.6279 | 3.7653 | -3.79 | 101 | 0.00 |
| 88 | T | 2chlorotolue | 2.1054 | 2.1040 | 0.07 | 101 | 0.00 |
| 89 | T | 4chlorotolue | 2.3752 | 2.3541 | 0.89 | 99 | 0.00 |
| 90 | T | 135Trimebenz | 2.5939 | 2.6436 | -1.92 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 2.2352 | 2.3061 | -3.17 | 100 | 0.00 |
| 92 | T | 124Trimetben | 2.5055 | 2.5510 | -1.82 | 101 | 0.00 |
| 93 | T | sbutylbenzen | 3.2092 | 3.3820 | -5.38 | 100 | 0.00 |
| 94 | PT | 13Diclorbenz | 1.2694 | 1.2601 | 0.73 | 100 | 0.00 |
| 95 | T | pIsopropylto | 2.7441 | 2.8603 | -4.23 | 99 | 0.00 |
| 96 | PT | 14dichlorobe | 1.2474 | 1.2231 | 1.95 | 99 | 0.00 |
| 97 | PT | 12dichlorobe | 1.0930 | 1.0572 | 3.28 | 98 | 0.00 |
| 98 | T | nButylbenzen | 2.4639 | 2.5152 | -2.08 | 98 | 0.00 |
| 99 | PT | 12dibromo3cl | 0.0558 | 0.0504 | 9.68 | 96 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.8906 | 0.8800 | 1.19 | 98 | 0.00 |
| 101 | PT | 124Trichlobe | 0.6096 | 0.5949 | 2.41 | 96 | 0.00 |
| 102 | T | Hexachlorobu | 0.4482 | 0.4486 | -0.09 | 97 | 0.00 |
| 103 | T | Naphthalene | 0.8021 | 0.7219 | 10.00 | 90 | 0.00 |
| 104 | T | 123Trichlben | 0.4689 | 0.4455 | 4.99 | 95 | 0.00 |

(#) = Out of Range SPCC's out = 5 CCC's out = 0

LW041325.M Wed Apr 16 10:19:02 2025

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR1425\CCV-LCS1.D Vial: 3
Acq On : 14 Apr 2025 8:32 Operator: RLD-DGS
Sample : 290576,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 14 08:53:11 2025

Quant Method : C:\INSTARCH\METHODS\LW041325.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW041325.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 4.0000 | 4.0000 | 0.00 | 100 | 0.00 |
| 2 | PT | Dichlorodi | 4.0000 | 4.3437 | -8.59 | 104 | 0.00 |
| 3 | PT | Chloromethan | 4.0000 | 3.8690 | 3.27 | 103 | 0.00 |
| 4 | PT | VinylChlorid | 4.0000 | 4.0120 | -0.30 | 101 | 0.00 |
| 5 | PT | Bromomethane | 4.0000 | 3.9920 | 0.20 | 110 | 0.00 |
| 6 | PT | Chloroethane | 4.0000 | 3.7144 | 7.14 | 96 | 0.00 |
| 7 | T | Dichloroflmethane | 4.0000 | 3.7566 | 6.08 | 98 | 0.00 |
| 8 | PT | Trichlorofma | 4.0000 | 4.3032 | -7.58 | 102 | 0.00 |
| 9 | T | Ethylether | 4.0000 | 3.6394 | 9.01 | 97 | 0.00 |
| 10 | T | dichlorotfluoroethan | 4.0000 | 4.2000 | -5.00 | 103 | 0.00 |
| 11 | T | propyleneoxide | 40.0000 | 36.3109 | 9.22 | 95 | 0.00 |
| 12 | T | Acrolein | 20.0000 | 18.1678 | 9.16 | 101 | 0.00 |
| 13 | PT | 11dichlorthe | 4.0000 | 4.0488 | -1.22 | 103 | 0.00 |
| 14 | PT | Trichlorotfluoroeth | 8.0000 | 8.6063 | -7.58 | 102 | 0.00 |
| 15 | PT | Acetone | 40.0000 | 33.7171 | 15.71 | 95 | 0.00 |
| 16 | T | Iodomethane | 8.0000 | 7.8103 | 2.37 | 90 | 0.00 |
| 17 | PT | Carbon Dislf | 8.0000 | 8.1514 | -1.89 | 104 | 0.00 |
| 18 | T | allylchloride | 8.0000 | 7.8820 | 1.48 | 101 | 0.00 |
| 19 | PT | methylacetate | 4.0000 | 3.3451 | 16.37 | 90 | 0.00 |
| 20 | PT | Methylchlorid | 4.0000 | 3.8498 | 3.75 | 100 | 0.00 |
| 21 | T | tbutylalcohol | 200.0000 | 171.1844 | 14.41 | 94 | 0.00 |
| 22 | T | Acrylonitrile | 20.0000 | 19.0123 | 4.94 | 102 | 0.00 |
| 23 | PT | t12dichlorte | 4.0000 | 3.9217 | 1.96 | 103 | 0.00 |
| 24 | PT | MtBE | 4.0000 | 3.5140 | 12.15 | 93 | 0.00 |
| 25 | T | Hexane | 8.0000 | 8.5766 | -7.21 | 101 | 0.00 |
| 26 | PT | 11dichlorota | 4.0000 | 3.9852 | 0.37 | 104 | 0.00 |
| 27 | T | Vinylacetate | 40.0000 | 37.3579 | 6.61 | 105 | 0.00 |
| 28 | T | chloroprene | 8.0000 | 8.2457 | -3.07 | 101 | 0.00 |
| 29 | T | Diisopether | 4.0000 | 3.8296 | 4.26 | 99 | 0.00 |
| 30 | T | ETBE | 4.0000 | 3.3197 | 17.01 | 89 | 0.00 |
| 31 | T | 22dichloropr | 4.0000 | 4.1742 | -4.35 | 108 | 0.00 |
| 32 | PT | c12dichlorte | 4.0000 | 3.8746 | 3.13 | 103 | 0.00 |
| 33 | PT | 2Butanone | 40.0000 | 36.5886 | 8.53 | 95 | 0.00 |
| 34 | T | propionitrile | 40.0000 | 38.0369 | 4.91 | 101 | 0.00 |
| 35 | T | Ethylacetate | 20.0000 | 18.1081 | 9.46 | 95 | 0.00 |
| 36 | T | methacrylonitrile | 8.0000 | 6.9821 | 12.72 | 94 | 0.00 |
| 37 | T | Bromochlorma | 4.0000 | 3.7998 | 5.01 | 96 | 0.00 |
| 38 | T | Tetrahydofur | 40.0000 | 33.4681 | 16.33 | 92 | 0.00 |
| 39 | PT | Chloroform | 4.0000 | 3.7881 | 5.30 | 101 | 0.00 |
| 40 | PT | 111trichlota | 4.0000 | 4.0947 | -2.37 | 101 | 0.00 |
| 41 | S | SURRDibrflma | 4.0000 | 3.9680 | 0.80 | 98 | 0.00 |
| 42 | PT | Cyclohexane | 4.0000 | 4.2448 | -6.12 | 101 | 0.00 |
| 43 | PT | Carbtetraclo | 4.0000 | 4.1398 | -3.50 | 102 | 0.00 |
| 44 | T | 11dicloprope | 4.0000 | 4.1839 | -4.60 | 103 | 0.00 |
| 45 | S | SURR12DCAd4 | 4.0000 | 3.8569 | 3.58 | 98 | -0.01 |
| 46 | PT | Benzene | 4.0000 | 3.9101 | 2.25 | 102 | 0.00 |
| 47 | PT | 12dichlorota | 4.0000 | 3.6236 | 9.41 | 99 | 0.00 |
| 48 | T | TAME | 4.0000 | 3.2996 | 17.51 | 86 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | PT | trichloroete | 4.0000 | 3.8591 | 3.52 | 100 | 0.00 |
| 50 | PT | methylcyclohexane | 4.0000 | 4.3351 | -8.38 | 103 | 0.00 |
| 51 | PT | 12dicloropra | 4.0000 | 3.8166 | 4.58 | 101 | 0.00 |
| 52 | T | 23Dicl1propene | 4.0000 | 3.9519 | 1.20 | 101 | 0.00 |
| 53 | T | Dibromometha | 4.0000 | 3.7143 | 7.14 | 99 | 0.00 |
| 54 | T | methylmethacrylate | 4.0000 | 3.8261 | 4.35 | 98 | 0.00 |
| 55 | T | 14dioxane | 200.0000 | 186.6291 | 6.69 | 95 | 0.00 |
| 56 | PT | Bromodiclrma | 4.0000 | 3.7670 | 5.83 | 98 | 0.00 |
| 57 | T | 2Nitropropane | 40.0000 | 37.4987 | 6.25 | 97 | 0.00 |
| 58 | PT | c13dicloproe | 4.0000 | 3.8947 | 2.63 | 99 | 0.00 |
| 59 | PT | 4Meth2Pentan | 40.0000 | 35.6903 | 10.77 | 94 | 0.00 |
| 60 | S | SURRd8Tolule | 4.0000 | 3.9664 | 0.84 | 100 | 0.00 |
| 61 | PT | Toluene | 4.0000 | 3.9639 | 0.90 | 101 | 0.00 |
| 62 | PT | t13Dicloprop | 4.0000 | 3.8373 | 4.07 | 99 | 0.00 |
| 63 | T | ethylmethacrylate | 8.0000 | 7.4938 | 6.33 | 95 | 0.00 |
| 64 | PT | 112Triclotha | 4.0000 | 3.8185 | 4.54 | 99 | 0.00 |
| 65 | PT | Tetrachlorte | 4.0000 | 4.0886 | -2.21 | 102 | 0.00 |
| 66 | T | 13Diclorpropa | 4.0000 | 3.6929 | 7.68 | 99 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 4.0000 | 4.0000 | 0.00 | 99 | 0.00 |
| 68 | PT | 2Hexanone | 40.0000 | 34.9163 | 12.71 | 93 | 0.00 |
| 69 | PT | Clorodibrmta | 4.0000 | 3.8884 | 2.79 | 98 | 0.00 |
| 70 | PT | 12Dibrometha | 4.0000 | 3.7267 | 6.83 | 97 | 0.00 |
| 71 | PT | Chlorobenzen | 4.0000 | 4.0207 | -0.52 | 102 | 0.00 |
| 72 | T | 1Clhexane | 4.0000 | 4.0646 | -1.62 | 101 | 0.00 |
| 73 | T | 1112Tetclota | 4.0000 | 3.9298 | 1.75 | 98 | 0.00 |
| 74 | PT | Ethylbenzene | 4.0000 | 3.9777 | 0.56 | 100 | 0.00 |
| 75 | PT | m p-Xylene | 8.0000 | 8.1453 | -1.82 | 103 | 0.00 |
| 76 | PT | o-Xylene | 4.0000 | 3.9683 | 0.79 | 102 | 0.00 |
| 77 | PT | Styrene | 4.0000 | 4.0239 | -0.60 | 100 | 0.00 |
| 78 | PT | Bromoform | 4.0000 | 3.9809 | 0.48 | 97 | 0.00 |
| 79 | PT | Isopropylben | 4.0000 | 4.1130 | -2.83 | 101 | 0.00 |
| 80 | T | cyclohexanone | 80.0000 | 67.9585 | 15.05 | 90 | 0.00 |
| | | | | | | | |
| 81 | I | d4-1,4-DICHLOROBENZENE**IS | 4.0000 | 4.0000 | 0.00 | 98 | 0.00 |
| 82 | S | SURR4BrFBenz | 4.0000 | 3.9912 | 0.22 | 100 | 0.00 |
| 83 | T | Bromobenzene | 4.0000 | 3.9436 | 1.41 | 99 | 0.00 |
| 84 | PT | 1122Tetrclta | 4.0000 | 3.8272 | 4.32 | 99 | 0.00 |
| 85 | T | 123Triclproa | 4.0000 | 3.7087 | 7.28 | 95 | 0.00 |
| 86 | T | 14dichloro2butene | 4.0000 | 3.7089 | 7.28 | 95 | 0.00 |
| 87 | T | n-Propylbenz | 4.0000 | 4.1515 | -3.79 | 101 | 0.00 |
| 88 | T | 2chlorotolue | 4.0000 | 3.9973 | 0.07 | 101 | 0.00 |
| 89 | T | 4chlorotolue | 4.0000 | 3.9645 | 0.89 | 99 | 0.00 |
| 90 | T | 135Trimebenz | 4.0000 | 4.0767 | -1.92 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 4.0000 | 4.1269 | -3.17 | 100 | 0.00 |
| 92 | T | 124Trimetben | 4.0000 | 4.0726 | -1.82 | 101 | 0.00 |
| 93 | T | sbutylbenzen | 4.0000 | 4.2154 | -5.38 | 100 | 0.00 |
| 94 | PT | 13Diclorbenz | 4.0000 | 3.9707 | 0.73 | 100 | 0.00 |
| 95 | T | pIsopropylto | 4.0000 | 4.1694 | -4.24 | 99 | 0.00 |
| 96 | PT | 14dichlorobe | 4.0000 | 3.9221 | 1.95 | 99 | 0.00 |
| 97 | PT | 12dichlorobe | 4.0000 | 3.8690 | 3.27 | 98 | 0.00 |
| 98 | T | nButylbenzen | 4.0000 | 4.0832 | -2.08 | 98 | 0.00 |
| 99 | PT | 12dibromo3cl | 4.0000 | 3.6168 | 9.58 | 96 | 0.00 |
| 100 | T | 135Trichlorobenzene | 4.0000 | 3.9523 | 1.19 | 98 | 0.00 |
| 101 | PT | 124Trichlobe | 4.0000 | 3.9036 | 2.41 | 96 | 0.00 |
| 102 | T | Hexachlorobu | 4.0000 | 4.0032 | -0.08 | 97 | 0.00 |
| 103 | T | Naphthalene | 4.0000 | 3.5999 | 10.00 | 90 | 0.00 |
| 104 | T | 123Trichlben | 4.0000 | 3.8005 | 4.99 | 95 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW041325.M Wed Apr 16 10:19:21 2025

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\CCV-LCS1.D Vial: 3
Acq On : 14 Apr 2025 8:32 Operator: RLD-DGS
Sample : 290576,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 08:53:11 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1194240 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 877318 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 437028 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 295951 | 3.968 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 49240 | 3.857 | ug/L | -0.01 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 96 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1181530 | 3.966 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 392165 | 3.991 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 356239 | 4.3437 | ug/L | 99 |
| 3) Chloromethan | 2.20 | 50 | 388601 | 3.8690 | ug/L | 98 |
| 4) VinylChlorid | 2.36 | 62 | 409387 | 4.0120 | ug/L | 100 |
| 5) Bromomethane | 2.86 | 94 | 259230 | 3.9920 | ug/L | 99 |
| 6) Chloroethane | 3.01 | 64 | 236786 | 3.7144 | ug/L | 98 |
| 7) Dichloroflmethane | 3.33 | 67 | 477496 | 3.7566 | ug/L | 99 |
| 8) Trichlorofma | 3.42 | 101 | 493461 | 4.3032 | ug/L | 99 |
| 9) Ethylether | 3.88 | 59 | 144961 | 3.6394 | ug/L | 96 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 327992 | 4.2000 | ug/L | 99 |
| 11) propyleneoxide | 4.10 | 58 | 190410 | 36.3109 | ug/L | 99 |
| 12) Acrolein | 4.01 | 56 | 104621 | 18.1678 | ug/L | 95 |
| 13) 11dichlorthe | 4.15 | 96 | 274236 | 4.0488 | ug/L | 98 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 528036 | 8.6063 | ug/L | 99 |
| 15) Acetone | 4.24 | 43 | 432964 | 33.7171 | ug/L | 100 |
| 16) Iodomethane | 4.33 | 142 | 572613 | 7.8103 | ug/L | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 1096429 | 8.1514 | ug/L | 99 |
| 18) allylchloride | 4.64 | 41 | 765672 | 7.8820 | ug/L | 99 |
| 19) methylacetate | 4.72 | 74 | 36488 | 3.3451 | ug/L | 97 |
| 20) Methylchlorid | 4.80 | 84 | 267997 | 3.8498 | ug/L | 99 |
| 21) tbutylalcohol | 5.05 | 59 | 287370 | 171.1844 | ug/L | 99 |
| 22) Acrylonitrile | 5.11 | 53 | 156522 | 19.0123 | ug/L | 96 |
| 23) t12dichlorte | 5.19 | 96 | 285081 | 3.9217 | ug/L | 100 |
| 24) MtBE | 5.25 | 73 | 283210 | 3.5140 | ug/L | 99 |
| 25) Hexane | 5.58 | 57 | 773337 | 8.5766 | ug/L | 98 |
| 26) 11dichlorota | 5.72 | 63 | 533505 | 3.9852 | ug/L | 99 |
| 27) Vinylacetate | 5.81 | 43 | 2071331 | 37.3579 | ug/L | 100 |
| 28) chloroprene | 5.85 | 53 | 853770 | 8.2457 | ug/L | 99 |
| 29) Diisopether | 5.88 | 45 | 719918 | 3.8296 | ug/L | 100 |
| 30) ETBE | 6.34 | 59 | 139521 | 3.3197 | ug/L | 99 |
| 31) 22dichloropr | 6.46 | 77 | 402257 | 4.1742 | ug/L | 98 |
| 32) c12dichlorte | 6.45 | 96 | 307250 | 3.8746 | ug/L | 99 |
| 33) 2Butanone | 6.49 | 72 | 131695 | 36.5886 | ug/L | 99 |
| 34) propionitrile | 6.51 | 54 | 121689 | 38.0369 | ug/L | 98 |
| 35) Ethylacetate | 6.60 | 88 | 11599 | 18.1081 | ug/L | 97 |
| 36) methacrylonitrile | 6.72 | 67 | 78901 | 6.9821 | ug/L | 96 |
| 37) Bromochlorma | 6.74 | 128 | 110480 | 3.7998 | ug/L | 95 |
| 38) Tetrahydofur | 6.87 | 42 | 241828 | 33.4681 | ug/L | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\CCV-LCS1.D Vial: 3
Acq On : 14 Apr 2025 8:32 Operator: RLD-DGS
Sample : 290576,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 08:53:11 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) Chloroform | 6.85 | 83 | 516746 | 3.7881 | ug/L | 99 |
| 40) 111trichlota | 7.10 | 97 | 486800 | 4.0947 | ug/L | 99 |
| 42) Cyclohexane | 7.19 | 56 | 474161 | 4.2448 | ug/L | 99 |
| 43) Carbtetraclo | 7.33 | 119 | 429314 | 4.1398 | ug/L | 99 |
| 44) 11dicloprope | 7.31 | 110 | 147537 | 4.1839 | ug/L | 98 |
| 46) Benzene | 7.56 | 78 | 1172928 | 3.9101 | ug/L | 99 |
| 47) 12dichlorota | 7.55 | 62 | 262481 | 3.6236 | ug/L | 100 |
| 48) TAME | 7.75 | 73 | 60297 | 3.2996 | ug/L | 97 |
| 49) trichloroete | 8.37 | 95 | 311046 | 3.8591 | ug/L | 98 |
| 50) methylcyclohexane | 8.64 | 83 | 549583 | 4.3351 | ug/L | 98 |
| 51) 12dicloropra | 8.62 | 63 | 276868 | 3.8166 | ug/L | 100 |
| 52) 23Dicl1propene | 8.68 | 75 | 437504 | 3.9519 | ug/L | 98 |
| 53) Dibromometha | 8.76 | 93 | 111631 | 3.7143 | ug/L | 99 |
| 54) methylmethacrylate | 8.80 | 69 | 80801 | 3.8261 | ug/L | 96 |
| 55) 14dioxane | 8.84 | 88 | 48650 | 186.6291 | ug/L | 96 |
| 56) Bromodiclrma | 8.96 | 83 | 339880 | 3.7670 | ug/L | 99 |
| 57) 2Nitropropane | 9.23 | 43 | 283701 | 37.4987 | ug/L | 99 |
| 58) c13dicloproe | 9.55 | 75 | 373826 | 3.8947 | ug/L | 98 |
| 59) 4Meth2Pentan | 9.75 | 43 | 839555 | 35.6903 | ug/L | 100 |
| 61) Toluene | 10.00 | 92 | 746710 | 3.9639 | ug/L | 100 |
| 62) t13Dicloprop | 10.25 | 75 | 260650 | 3.8373 | ug/L | 100 |
| 63) ethylmethacrylate | 10.41 | 69 | 316609 | 7.4938 | ug/L | 100 |
| 64) 112Triclotha | 10.49 | 83 | 129648 | 3.8185 | ug/L | 99 |
| 65) Tetrachlorte | 10.75 | 166 | 345896 | 4.0886 | ug/L | 100 |
| 66) 13Diclorpropa | 10.72 | 76 | 258450 | 3.6929 | ug/L | 97 |
| 68) 2Hexanone | 10.85 | 43 | 626580 | 34.9163 | ug/L | 99 |
| 69) Clorodibrmta | 11.03 | 129 | 202413 | 3.8884 | ug/L | 99 |
| 70) 12Dibrometha | 11.18 | 107 | 143672 | 3.7267 | ug/L | 100 |
| 71) Chlorobenzen | 11.88 | 112 | 779402 | 4.0207 | ug/L | 99 |
| 72) 1Clhexane | 11.85 | 91 | 413544 | 4.0646 | ug/L | 98 |
| 73) 1112Tetclota | 11.98 | 131 | 257234 | 3.9298 | ug/L | 98 |
| 74) Ethylbenzene | 12.04 | 91 | 1413013 | 3.9777 | ug/L | 100 |
| 75) m p-Xylene | 12.20 | 106 | 1110947 | 8.1453 | ug/L | 98 |
| 76) o-Xylene | 12.75 | 106 | 522611 | 3.9683 | ug/L | 99 |
| 77) Styrene | 12.76 | 104 | 789103 | 4.0239 | ug/L | 99 |
| 78) Bromoform | 12.99 | 173 | 97842 | 3.9809 | ug/L | 98 |
| 79) Isopropylben | 13.28 | 105 | 1425112 | 4.1130 | ug/L | 99 |
| 80) cyclohexanone | 13.38 | 55 | 267535 | 67.9585 | ug/L | 96 |
| 83) Bromobenzene | 13.69 | 156 | 293396 | 3.9436 | ug/L | 99 |
| 84) 1122Tetrclta | 13.65 | 83 | 150831 | 3.8272 | ug/L | 99 |
| 85) 123Triclproa | 13.71 | 75 | 152073 | 3.7087 | ug/L | 98 |
| 86) 14dichloro2butene | 13.74 | 53 | 9309 | 3.7089 | ug/L | 89 |
| 87) n-Propylbenz | 13.86 | 91 | 1645554 | 4.1515 | ug/L | 100 |
| 88) 2chlorotolue | 13.98 | 91 | 919503 | 3.9973 | ug/L | 100 |
| 89) 4chlorotolue | 14.13 | 91 | 1028826 | 3.9645 | ug/L | 100 |
| 90) 135Trimebenz | 14.12 | 105 | 1155341 | 4.0767 | ug/L | 99 |
| 91) tbutylbenzen | 14.59 | 119 | 1007848 | 4.1269 | ug/L | 100 |
| 92) 124Trimetben | 14.66 | 105 | 1114864 | 4.0726 | ug/L | 100 |
| 93) sbutylbenzen | 14.91 | 105 | 1478028 | 4.2154 | ug/L | 100 |
| 94) 13Diclorbenz | 15.06 | 146 | 550693 | 3.9707 | ug/L | 99 |
| 95) pIsopropylto | 15.13 | 119 | 1250052 | 4.1694 | ug/L | 100 |
| 96) 14dichlorobe | 15.18 | 146 | 534516 | 3.9221 | ug/L | 99 |
| 97) 12dichlorobe | 15.72 | 146 | 462043 | 3.8690 | ug/L | 99 |
| 98) nButylbenzen | 15.73 | 91 | 1099213 | 4.0832 | ug/L | 100 |
| 99) 12dibromo3cl | 16.81 | 157 | 22042 | 3.6168 | ug/L | 95 |
| 100) 135Trichlorobenzene | 17.14 | 180 | 384572 | 3.9523 | ug/L | 99 |
| 101) 124Trichlobe | 17.94 | 180 | 259994 | 3.9036 | ug/L | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\CCV-LCS1.D Vial: 3
Acq On : 14 Apr 2025 8:32 Operator: RLD-DGS
Sample : 290576,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 08:53:11 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

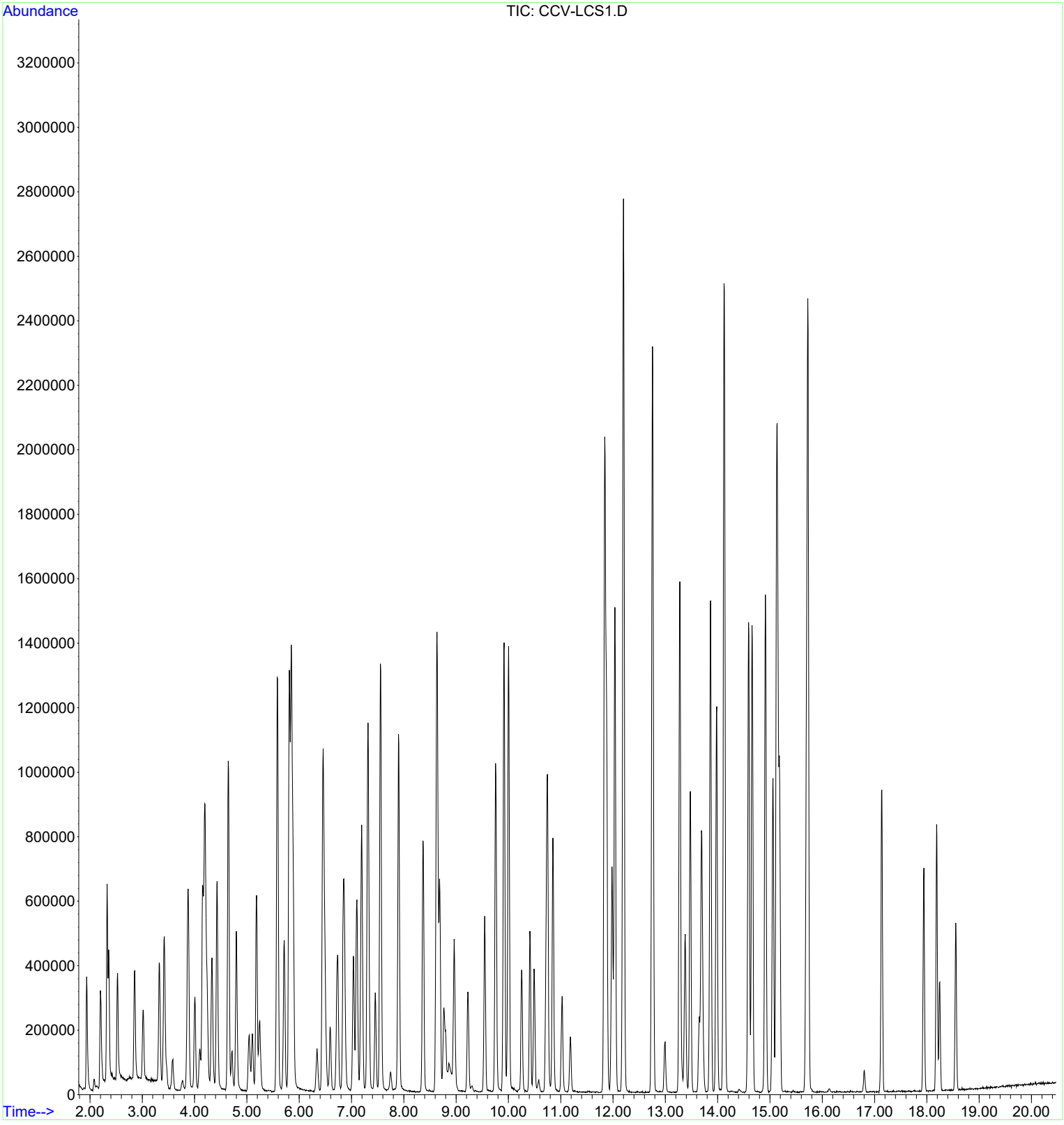
| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 196052 | 4.0032 | ug/L | 98 |
| 103) Naphthalene | 18.24 | 128 | 315488 | 3.5999 | ug/L | 99 |
| 104) 123Trichlben | 18.55 | 180 | 194714 | 3.8005 | ug/L | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR1425\CCV-LCS1.D Vial: 3
Acq On : 14 Apr 2025 8:32 Operator: RLD-DGS
Sample : 290576,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 08:53:11 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR1425\CCVF1.D  Vial: 26
Acq On : 14 Apr 2025 19:27  Operator: RLD-DGS
Sample : 290576,CCVF,  Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 14 19:47:32 2025

Quant Method : C:\INSTARCH\METHODS\LW041325.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW041325.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 99 | 0.00 |
| 2 | PT | Dichlorodi | 0.2747 | 0.3016 | -9.79 | 103 | 0.00 |
| 3 | PT | Chloromethan | 0.3364 | 0.3321 | 1.28 | 103 | 0.00 |
| 4 | PT | VinylChlorid | 0.3418 | 0.3370 | 1.40 | 97 | 0.00 |
| 5 | PT | Bromomethane | 0.2175 | 0.1550 | 28.74 | 77 | 0.00 |
| 6 | PT | Chloroethane | 0.2135 | 0.2022 | 5.29 | 96 | 0.00 |
| 7 | T | Dichloroflmethane | 0.4257 | 0.4167 | 2.11 | 100 | 0.00 |
| 8 | PT | Trichlorofma | 0.3841 | 0.4176 | -8.72 | 101 | 0.00 |
| 9 | T | Ethylether | 0.1334 | 0.1282 | 3.90 | 101 | 0.00 |
| 10 | T | dichlorotfluoroethan | 0.2616 | 0.2772 | -5.96 | 102 | 0.00 |
| 11 | T | propyleneoxide | 0.0176 | 0.0167# | 5.11 | 98 | 0.00 |
| 12 | T | Acrolein | 0.0193 | 0.0179# | 7.25 | 102 | 0.00 |
| 13 | PT | 11dichlorthe | 0.2269 | 0.2296 | -1.19 | 101 | 0.00 |
| 14 | PT | Trichlorotfluoroeth | 0.2055 | 0.2254 | -9.68 | 102 | 0.00 |
| 15 | PT | Acetone | 0.0430 | 0.0384# | 10.70 | 99 | 0.00 |
| 16 | T | Iodomethane | 0.2456 | 0.1705 | 30.58 | 63 | 0.00 |
| 17 | PT | Carbon Dislf | 0.4505 | 0.4452 | 1.18 | 99 | 0.00 |
| 18 | T | allylchloride | 0.3254 | 0.3106 | 4.55 | 96 | 0.00 |
| 19 | PT | methylacetate | 0.0365 | 0.0358# | 1.92 | 104 | 0.00 |
| 20 | PT | Methylchlorid | 0.2622 | 0.2319 | 11.56 | 101 | 0.00 |
| 21 | T | tbutylalcohol | 0.0056 | 0.0053# | 5.36 | 101 | 0.00 |
| 22 | T | Acrylonitrile | 0.0276 | 0.0277# | -0.36 | 106 | 0.00 |
| 23 | PT | t12dichlorte | 0.2435 | 0.2446 | -0.45 | 103 | 0.00 |
| 24 | PT | MtBE | 0.2699 | 0.2606 | 3.45 | 100 | 0.00 |
| 25 | T | Hexane | 0.3020 | 0.3186 | -5.50 | 98 | 0.00 |
| 26 | PT | 11dichlorota | 0.4484 | 0.4446 | 0.85 | 101 | 0.00 |
| 27 | T | Vinylacetate | 0.1857 | 0.1043 | 43.83 | 62 | 0.00 |
| 28 | T | chloroprene | 0.3468 | 0.3588 | -3.46 | 100 | 0.00 |
| 29 | T | Diisopether | 0.6296 | 0.6226 | 1.11 | 100 | 0.00 |
| 30 | T | ETBE | 0.1408 | 0.1340 | 4.83 | 100 | 0.00 |
| 31 | T | 22dichloropr | 0.3228 | 0.2818 | 12.70 | 89 | 0.00 |
| 32 | PT | c12dichlorte | 0.2656 | 0.2619 | 1.39 | 103 | 0.00 |
| 33 | PT | 2Butanone | 0.0121 | 0.0119# | 1.65 | 100 | 0.00 |
| 34 | T | propionitrile | 0.0107 | 0.0106# | 0.93 | 104 | 0.00 |
| 35 | T | Ethylacetate | 0.0021 | 0.0021# | 0.00 | 102 | 0.00 |
| 36 | T | methacrylonitrile | 0.0378 | 0.0364 | 3.70 | 101 | 0.00 |
| 37 | T | Bromochlorma | 0.0974 | 0.0971 | 0.31 | 98 | 0.00 |
| 38 | T | Tetrahydofur | 0.0242 | 0.0225# | 7.02 | 100 | 0.00 |
| 39 | PT | Chloroform | 0.4569 | 0.4409 | 3.50 | 101 | 0.00 |
| 40 | PT | 111trichlota | 0.3982 | 0.4042 | -1.51 | 98 | 0.00 |
| 41 | S | SURRDibrflma | 0.2498 | 0.2456 | 1.68 | 95 | 0.00 |
| 42 | PT | Cyclohexane | 0.3741 | 0.4037 | -7.91 | 101 | 0.00 |
| 43 | PT | Carbtetraclo | 0.3474 | 0.3564 | -2.59 | 99 | 0.00 |
| 44 | T | 11dicloprope | 0.1181 | 0.1231 | -4.23 | 100 | 0.00 |
| 45 | S | SURR12DCAd4 | 0.0428 | 0.0427 | 0.23 | 100 | 0.00 |
| 46 | PT | Benzene | 1.0047 | 0.9965 | 0.82 | 101 | 0.00 |
| 47 | PT | 12dichlorota | 0.2426 | 0.2317 | 4.49 | 102 | 0.00 |
| 48 | T | TAME | 0.0612 | 0.0588 | 3.92 | 98 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | PT | trichloroete | 0.2700 | 0.2807 | -3.96 | 106 | 0.00 |
| 50 | PT | methylcyclohexane | 0.4246 | 0.4530 | -6.69 | 99 | 0.00 |
| 51 | PT | 12dicloropra | 0.2430 | 0.2451 | -0.86 | 104 | 0.00 |
| 52 | T | 23Dicl1propene | 0.3708 | 0.3647 | 1.65 | 99 | 0.00 |
| 53 | T | Dibromometha | 0.1007 | 0.0981 | 2.58 | 102 | 0.00 |
| 54 | T | methylmethacrylate | 0.0707 | 0.0698 | 1.27 | 100 | 0.00 |
| 55 | T | 14dioxane | 0.0009 | 0.0009# | 0.00 | 107 | 0.00 |
| 56 | PT | Bromodiclrma | 0.3022 | 0.2931 | 3.01 | 99 | 0.00 |
| 57 | T | 2Nitropropane | 0.0253 | 0.0228# | 9.88 | 92 | 0.00 |
| 58 | PT | c13dicloproe | 0.3215 | 0.3046 | 5.26 | 95 | 0.00 |
| 59 | PT | 4Meth2Pentan | 0.0788 | 0.0762# | 3.30 | 100 | 0.00 |
| 60 | S | SURRd8Tolule | 0.9977 | 1.0034 | -0.57 | 99 | 0.00 |
| 61 | PT | Toluene | 0.6310 | 0.6329 | -0.30 | 100 | 0.00 |
| 62 | PT | t13Dicloprop | 0.2275 | 0.2082 | 8.48 | 93 | 0.00 |
| 63 | T | ethylmethacrylate | 0.1415 | 0.1398 | 1.20 | 98 | 0.00 |
| 64 | PT | 112Triclotha | 0.1137 | 0.1174 | -3.25 | 106 | 0.00 |
| 65 | PT | Tetrachlorte | 0.2834 | 0.2876 | -1.48 | 100 | 0.00 |
| 66 | T | 13Diclorpropa | 0.2344 | 0.2325 | 0.81 | 104 | 0.00 |
| | | | | | | | |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 1.0000 | 1.0000 | 0.00 | 98 | 0.00 |
| 68 | PT | 2Hexanone | 0.0818 | 0.0764# | 6.60 | 97 | 0.00 |
| 69 | PT | Clorodibrmta | 0.2373 | 0.2285 | 3.71 | 96 | 0.00 |
| 70 | PT | 12Dibrometha | 0.1758 | 0.1733 | 1.42 | 101 | 0.00 |
| 71 | PT | Chlorobenzen | 0.8838 | 0.9001 | -1.84 | 102 | 0.00 |
| 72 | T | 1Clhexane | 0.4639 | 0.4652 | -0.28 | 98 | 0.00 |
| 73 | T | 1112Tetclota | 0.2984 | 0.3010 | -0.87 | 99 | 0.00 |
| 74 | PT | Ethylbenzene | 1.6196 | 1.6254 | -0.36 | 100 | 0.00 |
| 75 | PT | m p-Xylene | 0.6219 | 0.6361 | -2.28 | 101 | 0.00 |
| 76 | PT | o-Xylene | 0.6004 | 0.5990 | 0.23 | 101 | 0.00 |
| 77 | PT | Styrene | 0.8941 | 0.9156 | -2.40 | 100 | 0.00 |
| 78 | PT | Bromoform | 0.1121 | 0.1047 | 6.60 | 90 | 0.00 |
| 79 | PT | Isopropylben | 1.5798 | 1.6215 | -2.64 | 99 | 0.00 |
| 80 | T | cyclohexanone | 0.0179 | 0.0162# | 9.50 | 94 | 0.00 |
| | | | | | | | |
| 81 | I | d4-1,4-DICHLOROBENZENE**IS | 1.0000 | 1.0000 | 0.00 | 99 | 0.00 |
| 82 | S | SURR4BrFBenz | 0.8993 | 0.8906 | 0.97 | 100 | 0.00 |
| 83 | T | Bromobenzene | 0.6809 | 0.6717 | 1.35 | 100 | 0.00 |
| 84 | PT | 1122Tetrclta | 0.3607 | 0.3289 | 8.82 | 95 | 0.00 |
| 85 | T | 123Triclproa | 0.3753 | 0.3521 | 6.18 | 97 | 0.00 |
| 86 | T | 14dichloro2butene | 0.0223 | 0.0140# | 37.22 | 63 | 0.00 |
| 87 | T | n-Propylbenz | 3.6279 | 3.6463 | -0.51 | 98 | 0.00 |
| 88 | T | 2chlorotolue | 2.1054 | 2.0792 | 1.24 | 101 | 0.00 |
| 89 | T | 4chlorotolue | 2.3752 | 2.3624 | 0.54 | 100 | 0.00 |
| 90 | T | 135Trimebenz | 2.5939 | 2.6188 | -0.96 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 2.2352 | 2.2823 | -2.11 | 100 | 0.00 |
| 92 | T | 124Trimetben | 2.5055 | 2.5287 | -0.93 | 101 | 0.00 |
| 93 | T | sbutylbenzen | 3.2092 | 3.2840 | -2.33 | 98 | 0.00 |
| 94 | PT | 13Diclorbenz | 1.2694 | 1.2631 | 0.50 | 102 | 0.00 |
| 95 | T | pIsopropylto | 2.7441 | 2.8036 | -2.17 | 98 | 0.00 |
| 96 | PT | 14dichlorobe | 1.2474 | 1.2335 | 1.11 | 101 | 0.00 |
| 97 | PT | 12dichlorobe | 1.0930 | 1.0692 | 2.18 | 101 | 0.00 |
| 98 | T | nButylbenzen | 2.4639 | 2.4895 | -1.04 | 98 | 0.00 |
| 99 | PT | 12dibromo3cl | 0.0558 | 0.0531 | 4.84 | 102 | 0.00 |
| 100 | T | 135Trichlorobenzene | 0.8906 | 0.8756 | 1.68 | 99 | 0.00 |
| 101 | PT | 124Trichlobe | 0.6096 | 0.5987 | 1.79 | 98 | 0.00 |
| 102 | T | Hexachlorobu | 0.4482 | 0.4186 | 6.60 | 91 | 0.00 |
| 103 | T | Naphthalene | 0.8021 | 0.7768 | 3.15 | 98 | 0.00 |
| 104 | T | 123Trichlben | 0.4689 | 0.4678 | 0.23 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 5 CCC's out = 0

LW041325.M Wed Apr 16 10:20:29 2025

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR1425\CCVF1.D  Vial: 26
Acq On : 14 Apr 2025 19:27  Operator: RLD-DGS
Sample : 290576,CCVF,  Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 14 19:47:32 2025

Quant Method : C:\INSTARCH\METHODS\LW041325.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW041325.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | FLUOROBENZENE**ISTD** | 4.0000 | 4.0000 | 0.00 | 99 | 0.00 |
| 2 | PT | Dichlorodi | 4.0000 | 4.3921 | -9.80 | 103 | 0.00 |
| 3 | PT | Chloromethan | 4.0000 | 3.9485 | 1.29 | 103 | 0.00 |
| 4 | PT | VinylChlorid | 4.0000 | 3.9444 | 1.39 | 97 | 0.00 |
| 5 | PT | Bromomethane | 4.0000 | 2.8513 | 28.72 | 77 | 0.00 |
| 6 | PT | Chloroethane | 4.0000 | 3.7881 | 5.30 | 96 | 0.00 |
| 7 | T | Dichloroflmethane | 4.0000 | 3.9154 | 2.12 | 100 | 0.00 |
| 8 | PT | Trichlorofma | 4.0000 | 4.3493 | -8.73 | 101 | 0.00 |
| 9 | T | Ethylether | 4.0000 | 3.8445 | 3.89 | 101 | 0.00 |
| 10 | T | dichlorotfluoroethan | 4.0000 | 4.2397 | -5.99 | 102 | 0.00 |
| 11 | T | propyleneoxide | 40.0000 | 38.0846 | 4.79 | 98 | 0.00 |
| 12 | T | Acrolein | 20.0000 | 18.5601 | 7.20 | 102 | 0.00 |
| 13 | PT | 11dichlorthe | 4.0000 | 4.0487 | -1.22 | 101 | 0.00 |
| 14 | PT | Trichlorotfluoroeth | 8.0000 | 8.7759 | -9.70 | 102 | 0.00 |
| 15 | PT | Acetone | 40.0000 | 35.7477 | 10.63 | 99 | 0.00 |
| 16 | T | Iodomethane | 8.0000 | 5.5554 | 30.56 | 63 | 0.00 |
| 17 | PT | Carbon Dislf | 8.0000 | 7.9048 | 1.19 | 99 | 0.00 |
| 18 | T | allylchloride | 8.0000 | 7.6363 | 4.55 | 96 | 0.00 |
| 19 | PT | methylacetate | 4.0000 | 3.9199 | 2.00 | 104 | 0.00 |
| 20 | PT | Methylchlorid | 4.0000 | 3.9847 | 0.38 | 101 | 0.00 |
| 21 | T | tbutylalcohol | 200.0000 | 186.8519 | 6.57 | 101 | 0.00 |
| 22 | T | Acrylonitrile | 20.0000 | 20.0977 | -0.49 | 106 | 0.00 |
| 23 | PT | t12dichlorte | 4.0000 | 4.0185 | -0.46 | 103 | 0.00 |
| 24 | PT | MtBE | 4.0000 | 3.8616 | 3.46 | 100 | 0.00 |
| 25 | T | Hexane | 8.0000 | 8.4401 | -5.50 | 98 | 0.00 |
| 26 | PT | 11dichlorota | 4.0000 | 3.9659 | 0.85 | 101 | 0.00 |
| 27 | T | Vinylacetate | 40.0000 | 22.4685 | 43.83 | 62 | 0.00 |
| 28 | T | chloroprene | 8.0000 | 8.2779 | -3.47 | 100 | 0.00 |
| 29 | T | Diisopether | 4.0000 | 3.9552 | 1.12 | 100 | 0.00 |
| 30 | T | ETBE | 4.0000 | 3.8073 | 4.82 | 100 | 0.00 |
| 31 | T | 22dichloropr | 4.0000 | 3.4921 | 12.70 | 89 | 0.00 |
| 32 | PT | c12dichlorte | 4.0000 | 3.9440 | 1.40 | 103 | 0.00 |
| 33 | PT | 2Butanone | 40.0000 | 39.3976 | 1.51 | 100 | 0.00 |
| 34 | T | propionitrile | 40.0000 | 39.7327 | 0.67 | 104 | 0.00 |
| 35 | T | Ethylacetate | 20.0000 | 19.8059 | 0.97 | 102 | 0.00 |
| 36 | T | methacrylonitrile | 8.0000 | 7.6980 | 3.77 | 101 | 0.00 |
| 37 | T | Bromochlorma | 4.0000 | 3.9893 | 0.27 | 98 | 0.00 |
| 38 | T | Tetrahydofur | 40.0000 | 37.1199 | 7.20 | 100 | 0.00 |
| 39 | PT | Chloroform | 4.0000 | 3.8596 | 3.51 | 101 | 0.00 |
| 40 | PT | 111trichlota | 4.0000 | 4.0606 | -1.51 | 98 | 0.00 |
| 41 | S | SURRDibrflma | 4.0000 | 3.9320 | 1.70 | 95 | 0.00 |
| 42 | PT | Cyclohexane | 4.0000 | 4.3162 | -7.91 | 101 | 0.00 |
| 43 | PT | Carbtetraclo | 4.0000 | 4.1044 | -2.61 | 99 | 0.00 |
| 44 | T | 11dicloprope | 4.0000 | 4.1682 | -4.20 | 100 | 0.00 |
| 45 | S | SURR12DCAd4 | 4.0000 | 3.9943 | 0.14 | 100 | 0.00 |
| 46 | PT | Benzene | 4.0000 | 3.9671 | 0.82 | 101 | 0.00 |
| 47 | PT | 12dichlorota | 4.0000 | 3.8201 | 4.50 | 102 | 0.00 |
| 48 | T | TAME | 4.0000 | 3.8435 | 3.91 | 98 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | PT | trichloroete | 4.0000 | 4.1584 | -3.96 | 106 | 0.00 |
| 50 | PT | methylcyclohexane | 4.0000 | 4.2672 | -6.68 | 99 | 0.00 |
| 51 | PT | 12dicloropra | 4.0000 | 4.0344 | -0.86 | 104 | 0.00 |
| 52 | T | 23Dicl1propene | 4.0000 | 3.9344 | 1.64 | 99 | 0.00 |
| 53 | T | Dibromometha | 4.0000 | 3.8964 | 2.59 | 102 | 0.00 |
| 54 | T | methylmethacrylate | 4.0000 | 3.9479 | 1.30 | 100 | 0.00 |
| 55 | T | 14dioxane | 200.0000 | 213.3223 | -6.66 | 107 | 0.00 |
| 56 | PT | Bromodiclrma | 4.0000 | 3.8800 | 3.00 | 99 | 0.00 |
| 57 | T | 2Nitropropane | 40.0000 | 36.0142 | 9.96 | 92 | 0.00 |
| 58 | PT | c13dicloproe | 4.0000 | 3.7895 | 5.26 | 95 | 0.00 |
| 59 | PT | 4Meth2Pentan | 40.0000 | 38.6808 | 3.30 | 100 | 0.00 |
| 60 | S | SURRd8Tolule | 4.0000 | 4.0229 | -0.57 | 99 | 0.00 |
| 61 | PT | Toluene | 4.0000 | 4.0123 | -0.31 | 100 | 0.00 |
| 62 | PT | t13Dicloprop | 4.0000 | 3.6602 | 8.49 | 93 | 0.00 |
| 63 | T | ethylmethacrylate | 8.0000 | 7.9011 | 1.24 | 98 | 0.00 |
| 64 | PT | 112Triclotha | 4.0000 | 4.1291 | -3.23 | 106 | 0.00 |
| 65 | PT | Tetrachlorte | 4.0000 | 4.0604 | -1.51 | 100 | 0.00 |
| 66 | T | 13Diclorpropa | 4.0000 | 3.9671 | 0.82 | 104 | 0.00 |
| 67 | I | d5-CHLOROBENZENE**ISTD** | 4.0000 | 4.0000 | 0.00 | 98 | 0.00 |
| 68 | PT | 2Hexanone | 40.0000 | 37.3684 | 6.58 | 97 | 0.00 |
| 69 | PT | Clorodibrmta | 4.0000 | 3.8513 | 3.72 | 96 | 0.00 |
| 70 | PT | 12Dibrometha | 4.0000 | 3.9427 | 1.43 | 101 | 0.00 |
| 71 | PT | Chlorobenzen | 4.0000 | 4.0736 | -1.84 | 102 | 0.00 |
| 72 | T | 1Clhexane | 4.0000 | 4.0114 | -0.29 | 98 | 0.00 |
| 73 | T | 1112Tetclota | 4.0000 | 4.0336 | -0.84 | 99 | 0.00 |
| 74 | PT | Ethylbenzene | 4.0000 | 4.0141 | -0.35 | 100 | 0.00 |
| 75 | PT | m p-Xylene | 8.0000 | 8.1837 | -2.30 | 101 | 0.00 |
| 76 | PT | o-Xylene | 4.0000 | 3.9901 | 0.25 | 101 | 0.00 |
| 77 | PT | Styrene | 4.0000 | 4.0963 | -2.41 | 100 | 0.00 |
| 78 | PT | Bromoform | 4.0000 | 3.7386 | 6.54 | 90 | 0.00 |
| 79 | PT | Isopropylben | 4.0000 | 4.1056 | -2.64 | 99 | 0.00 |
| 80 | T | cyclohexanone | 80.0000 | 72.2707 | 9.66 | 94 | 0.00 |
| 81 | I | d4-1,4-DICHLOROBENZENE**IS | 4.0000 | 4.0000 | 0.00 | 99 | 0.00 |
| 82 | S | SURR4BrFBenz | 4.0000 | 3.9610 | 0.98 | 100 | 0.00 |
| 83 | T | Bromobenzene | 4.0000 | 3.9457 | 1.36 | 100 | 0.00 |
| 84 | PT | 1122Tetrclta | 4.0000 | 3.6476 | 8.81 | 95 | 0.00 |
| 85 | T | 123Triclproa | 4.0000 | 3.7531 | 6.17 | 97 | 0.00 |
| 86 | T | 14dichloro2butene | 4.0000 | 2.4726 | 38.19 | 63 | 0.00 |
| 87 | T | n-Propylbenz | 4.0000 | 4.0203 | -0.51 | 98 | 0.00 |
| 88 | T | 2chlorotolue | 4.0000 | 3.9502 | 1.24 | 101 | 0.00 |
| 89 | T | 4chlorotolue | 4.0000 | 3.9784 | 0.54 | 100 | 0.00 |
| 90 | T | 135Trimebenz | 4.0000 | 4.0384 | -0.96 | 100 | 0.00 |
| 91 | T | tbutylbenzen | 4.0000 | 4.0842 | -2.11 | 100 | 0.00 |
| 92 | T | 124Trimetben | 4.0000 | 4.0369 | -0.92 | 101 | 0.00 |
| 93 | T | sbutylbenzen | 4.0000 | 4.0933 | -2.33 | 98 | 0.00 |
| 94 | PT | 13Diclorbenz | 4.0000 | 3.9802 | 0.50 | 102 | 0.00 |
| 95 | T | pIsopropylto | 4.0000 | 4.0867 | -2.17 | 98 | 0.00 |
| 96 | PT | 14dichlorobe | 4.0000 | 3.9555 | 1.11 | 101 | 0.00 |
| 97 | PT | 12dichlorobe | 4.0000 | 3.9127 | 2.18 | 101 | 0.00 |
| 98 | T | nButylbenzen | 4.0000 | 4.0415 | -1.04 | 98 | 0.00 |
| 99 | PT | 12dibromo3cl | 4.0000 | 3.8060 | 4.85 | 102 | 0.00 |
| 100 | T | 135Trichlorobenzene | 4.0000 | 3.9326 | 1.69 | 99 | 0.00 |
| 101 | PT | 124Trichlobe | 4.0000 | 3.9288 | 1.78 | 98 | 0.00 |
| 102 | T | Hexachlorobu | 4.0000 | 3.7358 | 6.61 | 91 | 0.00 |
| 103 | T | Naphthalene | 4.0000 | 3.8735 | 3.16 | 98 | 0.00 |
| 104 | T | 123Trichlben | 4.0000 | 3.9901 | 0.25 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW041325.M Wed Apr 16 10:20:46 2025

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\CCVF1.D Vial: 26
Acq On : 14 Apr 2025 19:27 Operator: RLD-DGS
Sample : 290576,CCVF, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 19:47:32 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1171791 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 863103 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 441221 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 287750 | 3.932 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 98 | % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 50035 | 3.994 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1175828 | 4.023 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 101 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 392930 | 3.961 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 353440 | 4.3921 | ug/L | 98 |
| 3) Chloromethan | 2.20 | 50 | 389124 | 3.9485 | ug/L | 99 |
| 4) VinylChlorid | 2.36 | 62 | 394922 | 3.9444 | ug/L | 99 |
| 5) Bromomethane | 2.86 | 94 | 181675 | 2.8513 | ug/L | 98 |
| 6) Chloroethane | 3.02 | 64 | 236948 | 3.7881 | ug/L | 98 |
| 7) Dichloroflmethane | 3.33 | 67 | 488319 | 3.9154 | ug/L | 99 |
| 8) Trichlorofma | 3.42 | 101 | 489376 | 4.3493 | ug/L | 100 |
| 9) Ethylether | 3.88 | 59 | 150248 | 3.8445 | ug/L | 97 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 324872 | 4.2397 | ug/L | 98 |
| 11) propyleneoxide | 4.10 | 58 | 195957 | 38.0846 | ug/L | 97 |
| 12) Acrolein | 4.01 | 56 | 104871 | 18.5601 | ug/L | 99 |
| 13) 11dichlorthe | 4.15 | 96 | 269073 | 4.0487 | ug/L | 99 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 528321 | 8.7759 | ug/L | 99 |
| 15) Acetone | 4.24 | 43 | 450409 | 35.7477 | ug/L | 99 |
| 16) Iodomethane | 4.33 | 142 | 399637 | 5.5554 | ug/L | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 1043265 | 7.9048 | ug/L | 100 |
| 18) allylchloride | 4.64 | 41 | 727857 | 7.6363 | ug/L | 99 |
| 19) methylacetate | 4.72 | 74 | 41954 | 3.9199 | ug/L | 97 |
| 20) Methylchlorid | 4.80 | 84 | 271793 | 3.9847 | ug/L | 97 |
| 21) tbutylalcohol | 5.04 | 59 | 307775 | 186.8519 | ug/L | 99 |
| 22) Acrylonitrile | 5.11 | 53 | 162347 | 20.0977 | ug/L | 94 |
| 23) t12dichlorte | 5.19 | 96 | 286633 | 4.0185 | ug/L | 99 |
| 24) MtBE | 5.24 | 73 | 305373 | 3.8616 | ug/L | 99 |
| 25) Hexane | 5.59 | 57 | 746724 | 8.4401 | ug/L | 99 |
| 26) 11dichlorota | 5.71 | 63 | 520943 | 3.9659 | ug/L | 98 |
| 27) Vinylacetate | 5.81 | 43 | 1222358 | 22.4685 | ug/L | 100 |
| 28) chloroprene | 5.85 | 53 | 840991 | 8.2779 | ug/L | 98 |
| 29) Diisopether | 5.88 | 45 | 729553 | 3.9552 | ug/L | 97 |
| 30) ETBE | 6.34 | 59 | 157008 | 3.8073 | ug/L | 99 |
| 31) 22dichloropr | 6.46 | 77 | 330198 | 3.4921 | ug/L | 97 |
| 32) c12dichlorte | 6.45 | 96 | 306872 | 3.9440 | ug/L | 97 |
| 33) 2Butanone | 6.49 | 72 | 139140 | 39.3976 | ug/L | 100 |
| 34) propionitrile | 6.51 | 54 | 124725 | 39.7327 | ug/L | 99 |
| 35) Ethylacetate | 6.59 | 88 | 12448 | 19.8059 | ug/L # | 94 |
| 36) methacrylonitrile | 6.71 | 67 | 85356 | 7.6980 | ug/L | 98 |
| 37) Bromochlorma | 6.74 | 128 | 113809 | 3.9893 | ug/L | 95 |
| 38) Tetrahydofur | 6.87 | 42 | 263173 | 37.1199 | ug/L | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\CCVF1.D Vial: 26
Acq On : 14 Apr 2025 19:27 Operator: RLD-DGS
Sample : 290576,CCVF, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 19:47:32 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 516591 | 3.8596 | ug/L | 99 |
| 40) | 111trichlota | 7.10 | 97 | 473663 | 4.0606 | ug/L | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 473072 | 4.3162 | ug/L | 99 |
| 43) | Carbtetraclo | 7.33 | 119 | 417642 | 4.1044 | ug/L | 100 |
| 44) | 11dicloprope | 7.31 | 110 | 144218 | 4.1682 | ug/L | 98 |
| 46) | Benzene | 7.56 | 78 | 1167656 | 3.9671 | ug/L | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 271518 | 3.8201 | ug/L | 99 |
| 48) | TAME | 7.75 | 73 | 68917 | 3.8435 | ug/L | 99 |
| 49) | trichloroete | 8.37 | 95 | 328864 | 4.1584 | ug/L | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 530804 | 4.2672 | ug/L | 99 |
| 51) | 12dicloropra | 8.62 | 63 | 287167 | 4.0344 | ug/L | 92 |
| 52) | 23Dicl1propene | 8.69 | 75 | 427377 | 3.9344 | ug/L | 99 |
| 53) | Dibromometha | 8.76 | 93 | 114902 | 3.8964 | ug/L | 98 |
| 54) | methylmethacrylate | 8.81 | 69 | 81806 | 3.9479 | ug/L | 97 |
| 55) | 14dioxane | 8.84 | 88 | 54563 | 213.3223 | ug/L | 91 |
| 56) | Bromodiclrma | 8.96 | 83 | 343494 | 3.8800 | ug/L | 100 |
| 57) | 2Nitropropane | 9.23 | 43 | 267348 | 36.0142 | ug/L | 96 |
| 58) | c13dicloproe | 9.55 | 75 | 356892 | 3.7895 | ug/L | 99 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 892799 | 38.6808 | ug/L | 99 |
| 61) | Toluene | 10.00 | 92 | 741627 | 4.0123 | ug/L | 98 |
| 62) | t13Dicloprop | 10.26 | 75 | 243948 | 3.6602 | ug/L | 97 |
| 63) | ethylmethacrylate | 10.41 | 69 | 327540 | 7.9011 | ug/L | 99 |
| 64) | 112Triclotha | 10.50 | 83 | 137556 | 4.1291 | ug/L | 95 |
| 65) | Tetrachlorte | 10.75 | 166 | 337054 | 4.0604 | ug/L | 99 |
| 66) | 13Diclorpropa | 10.72 | 76 | 272417 | 3.9671 | ug/L | 95 |
| 68) | 2Hexanone | 10.85 | 43 | 659718 | 37.3684 | ug/L | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 197232 | 3.8513 | ug/L | 98 |
| 70) | 12Dibrometha | 11.19 | 107 | 149535 | 3.9427 | ug/L | 99 |
| 71) | Chlorobenzen | 11.88 | 112 | 776858 | 4.0736 | ug/L | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 401517 | 4.0114 | ug/L | 99 |
| 73) | 1112Tetclota | 11.98 | 131 | 259754 | 4.0336 | ug/L | 100 |
| 74) | Ethylbenzene | 12.04 | 91 | 1402847 | 4.0141 | ug/L | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 1098093 | 8.1837 | ug/L | 98 |
| 76) | o-Xylene | 12.75 | 106 | 516962 | 3.9901 | ug/L | 99 |
| 77) | Styrene | 12.76 | 104 | 790299 | 4.0963 | ug/L | 100 |
| 78) | Bromoform | 12.99 | 173 | 90399 | 3.7386 | ug/L | 96 |
| 79) | Isopropylben | 13.28 | 105 | 1399516 | 4.1056 | ug/L | 99 |
| 80) | cyclohexanone | 13.38 | 55 | 279901 | 72.2707 | ug/L | 99 |
| 83) | Bromobenzene | 13.70 | 156 | 296372 | 3.9457 | ug/L | 99 |
| 84) | 1122Tetrclta | 13.65 | 83 | 145131 | 3.6476 | ug/L | 98 |
| 85) | 123Triclproa | 13.71 | 75 | 155370 | 3.7531 | ug/L | 98 |
| 86) | 14dichloro2butene | 13.74 | 53 | 6166 | 2.4726 | ug/L | 91 |
| 87) | n-Propylbenz | 13.87 | 91 | 1608824 | 4.0203 | ug/L | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 917388 | 3.9502 | ug/L | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 1042354 | 3.9784 | ug/L | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 1155467 | 4.0384 | ug/L | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 1006984 | 4.0842 | ug/L | 99 |
| 92) | 124Trimetben | 14.66 | 105 | 1115707 | 4.0369 | ug/L | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 1448989 | 4.0933 | ug/L | 99 |
| 94) | 13Diclorbenz | 15.06 | 146 | 557313 | 3.9802 | ug/L | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 1237009 | 4.0867 | ug/L | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 544237 | 3.9555 | ug/L | 99 |
| 97) | 12dichlorobe | 15.73 | 146 | 471744 | 3.9127 | ug/L | 100 |
| 98) | nButylbenzen | 15.73 | 91 | 1098429 | 4.0415 | ug/L | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 23418 | 3.8060 | ug/L | 91 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 386327 | 3.9326 | ug/L | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 264179 | 3.9288 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\CCVF1.D Vial: 26
Acq On : 14 Apr 2025 19:27 Operator: RLD-DGS
Sample : 290576,CCVF, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 19:47:32 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 184713 | 3.7358 | ug/L | 96 |
| 103) | Naphthalene | 18.25 | 128 | 342728 | 3.8735 | ug/L | 100 |
| 104) | 123Trichlben | 18.55 | 180 | 206390 | 3.9901 | ug/L | 99 |

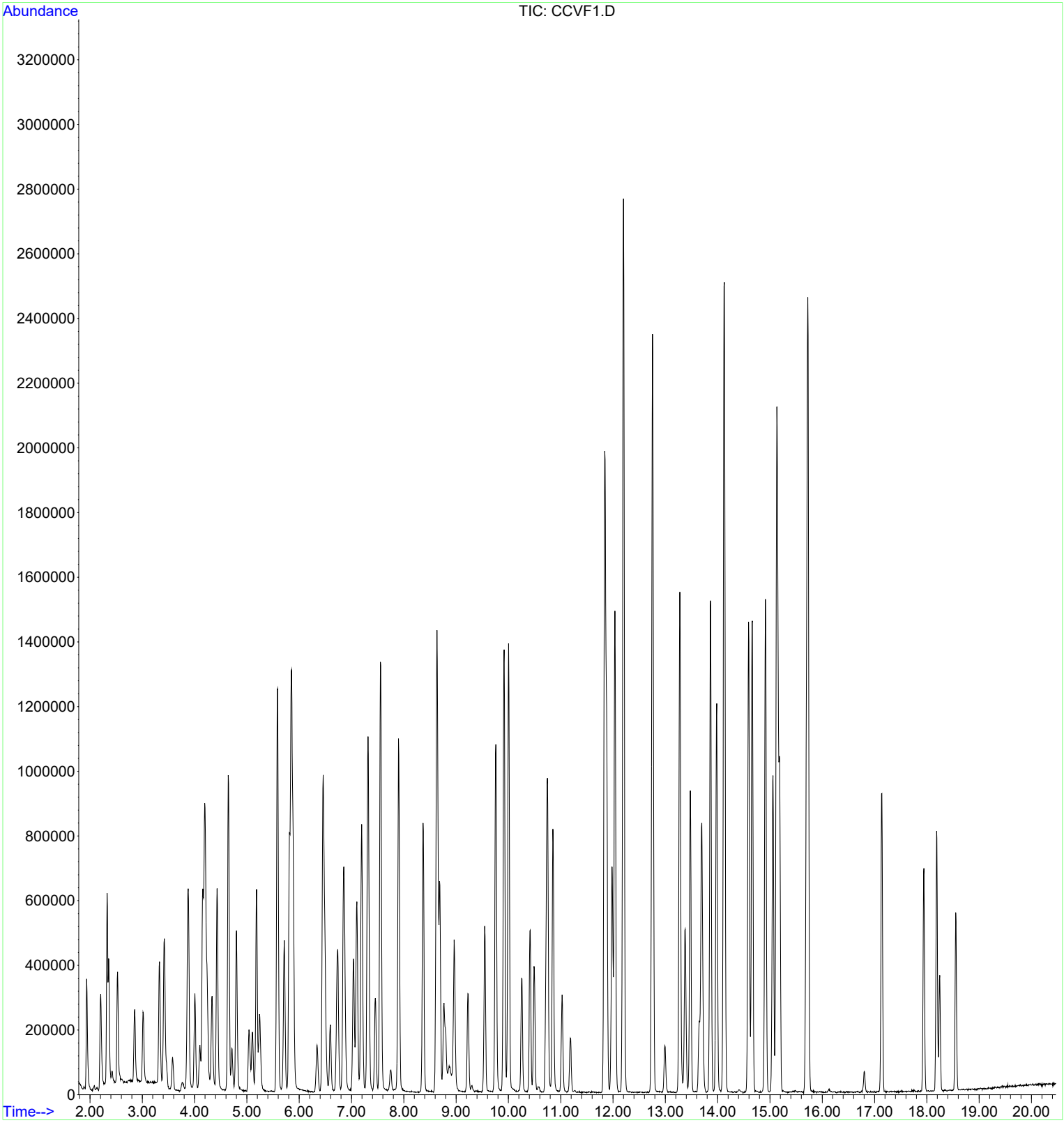
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\CCVF1.D  Vial: 26
Acq On : 14 Apr 2025 19:27  Operator: RLD-DGS
Sample : 290576,CCVF,  Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 19:47:32 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



# VOLATILE ORGANIC ANALYSIS
# QUALITY CONTROL
# DOCUMENTS

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\LCS1.D Vial: 4
Acq On : 7 Apr 2025 10:37 Operator: RLD-DGS
Sample : 290592,LCSS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 10:58:15 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1326752 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 1076002 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 549065 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 364881 | 1.021 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 102 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 85346 | 0.999 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1321231 | 1.010 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 101 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 525346 | 0.995 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 191020 | 0.5076 | mg/kg | 96 |
| 3) Chloromethan | 2.20 | 50 | 195686 | 0.3658 | mg/kg | 97 |
| 4) VinylChlorid | 2.37 | 62 | 216985 | 0.4693 | mg/kg | 90 |
| 5) Bromomethane | 2.83 | 94 | 87077 | 0.5291 | mg/kg | 84 |
| 6) Chloroethane | 2.97 | 64 | 38791 | 0.4584 | mg/kg | 100 |
| 7) dichloroflmethane | 3.29 | 67 | 317774 | 0.5792 | mg/kg | 96 |
| 8) Trichlorofma | 3.35 | 101 | 338140 | 0.6088 | mg/kg | 99 |
| 9) Ethylether | 3.90 | 59 | 131654 | 0.4150 | mg/kg | 93 |
| 10) dichlorotfluoroethan | 3.85 | 67 | 180994 | 0.4778 | mg/kg | 97 |
| 11) propyleneoxide | 4.10 | 58 | 221816 | 3.7007 | mg/kg | 95 |
| 12) Acrolein | 4.02 | 56 | 178218 | 2.4309 | mg/kg | 92 |
| 13) 11dichlorthe | 4.12 | 96 | 155712 | 0.5022 | mg/kg | 93 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 314914 | 1.0688 | mg/kg | 99 |
| 15) Acetone | 4.27 | 43 | 749839 | 4.8775 | mg/kg | 99 |
| 16) Iodomethane | 4.31 | 127 | 139067 | 1.3444 | mg/kg# | 88 |
| 17) Carbon Dislf | 4.40 | 76 | 784637 | 0.9829 | mg/kg | 100 |
| 18) allylchloride | 4.63 | 41 | 396899 | 0.8104 | mg/kg | 90 |
| 19) methylacetate | 4.72 | 74 | 90198 | 0.3479 | mg/kg | 94 |
| 20) Methylchlorid | 4.79 | 84 | 178132 | 0.4787 | mg/kg# | 81 |
| 21) Acrylonitrile | 5.12 | 53 | 300533 | 1.9125 | mg/kg | 99 |
| 22) t12dichlorte | 5.17 | 96 | 169818 | 0.5125 | mg/kg | 93 |
| 23) tbutylalcohol | 5.11 | 59 | 534131 | 16.9506 | mg/kg | 97 |
| 24) MtBE | 5.25 | 73 | 287573 | 0.3992 | mg/kg | 96 |
| 25) Hexane | 5.57 | 57 | 480337 | 0.8953 | mg/kg | 99 |
| 26) 11dichlorota | 5.70 | 63 | 312560 | 0.4564 | mg/kg | 97 |
| 27) Vinylacetate | 5.81 | 43 | 2796441 | 5.0523 | mg/kg | 95 |
| 28) chloroprene | 5.84 | 53 | 491159 | 0.9246 | mg/kg | 93 |
| 29) Diisopether | 5.89 | 45 | 454495 | 0.4006 | mg/kg | 94 |
| 30) ETBE | 6.34 | 59 | 115444 | 0.2640 | mg/kg | 97 |
| 31) 22dichloropr | 6.45 | 77 | 217171 | 0.4601 | mg/kg | 100 |
| 32) c12dichlorte | 6.45 | 96 | 178289 | 0.4884 | mg/kg | 94 |
| 33) 2Butanone | 6.50 | 72 | 216559 | 5.2021 | mg/kg | 95 |
| 34) propionitrile | 6.52 | 54 | 237662 | 3.8959 | mg/kg | 97 |
| 35) Ethylacetate | 6.60 | 88 | 16803 | 2.0532 | mg/kg# | 74 |
| 36) methacrylonitrile | 6.72 | 67 | 121127 | 0.8796 | mg/kg | 89 |
| 37) Bromochlorma | 6.74 | 128 | 83954 | 0.5195 | mg/kg# | 78 |
| 38) Tetrahydofur | 6.88 | 42 | 421319 | 3.5164 | mg/kg | 85 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\LCS1.D Vial: 4
Acq On : 7 Apr 2025 10:37 Operator: RLD-DGS
Sample : 290592,LCSS, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 10:58:15 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 304541 | 0.5092 mg/kg | 97 |
| 40) | 111trichlota | 7.10 | 97 | 257065 | 0.4936 mg/kg | 97 |
| 42) | Cyclohexane | 7.18 | 56 | 274548 | 0.4406 mg/kg | 89 |
| 43) | Carbtetraclo | 7.32 | 119 | 235061 | 0.5290 mg/kg | 98 |
| 44) | 11dicloprope | 7.30 | 110 | 84218 | 0.5333 mg/kg# | 87 |
| 46) | Benzene | 7.55 | 78 | 656220 | 0.4927 mg/kg | 96 |
| 47) | 12dichlorota | 7.55 | 62 | 236422 | 0.4821 mg/kg | 98 |
| 48) | TAME | 7.75 | 73 | 52486 | 0.2457 mg/kg | 96 |
| 49) | trichloroete | 8.36 | 95 | 175072 | 0.4946 mg/kg | 100 |
| 50) | methylcyclohexane | 8.64 | 83 | 272786 | 0.5068 mg/kg | 92 |
| 51) | 12dicloropra | 8.62 | 63 | 181434 | 0.4397 mg/kg | 84 |
| 52) | 23dicl1propene | 8.68 | 75 | 249146 | 0.4815 mg/kg | 97 |
| 53) | Dibromometha | 8.76 | 93 | 107110 | 0.5154 mg/kg | 97 |
| 54) | methylmethacrylate | 8.80 | 69 | 94160 | 0.4533 mg/kg | 97 |
| 55) | 14dioxane | 8.85 | 88 | 96489 | 23.9783 mg/kg | 91 |
| 56) | Bromodiclrma | 8.96 | 83 | 231907 | 0.5139 mg/kg | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 484831 | 4.5446 mg/kg | 98 |
| 58) | c13dicloproe | 9.55 | 75 | 246309 | 0.4725 mg/kg | 97 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 1237995 | 3.9367 mg/kg | 96 |
| 61) | Toluene | 10.00 | 92 | 412686 | 0.5063 mg/kg | 95 |
| 62) | t13Dicloprop | 10.25 | 75 | 219561 | 0.4839 mg/kg | 98 |
| 63) | ethylmethacrylate | 10.42 | 69 | 309378 | 0.8977 mg/kg | 90 |
| 64) | 112Triclotha | 10.50 | 83 | 121747 | 0.4814 mg/kg | 98 |
| 65) | Tetrachlorte | 10.75 | 166 | 177525 | 0.4865 mg/kg | 99 |
| 66) | 13Diclorpropa | 10.72 | 76 | 235150 | 0.4735 mg/kg | 100 |
| 68) | 2Hexanone | 10.86 | 43 | 960343 | 3.9834 mg/kg | 97 |
| 69) | Clorodibrmta | 11.03 | 129 | 167665 | 0.4787 mg/kg | 96 |
| 70) | 12Dibrometha | 11.18 | 107 | 154409 | 0.4677 mg/kg | 96 |
| 71) | Chlorobenzen | 11.88 | 112 | 465322 | 0.4803 mg/kg | 96 |
| 72) | 1Clhexane | 11.85 | 91 | 215925 | 0.4545 mg/kg | 89 |
| 73) | 1112Tetclota | 11.98 | 131 | 158326 | 0.4761 mg/kg | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 766053 | 0.4780 mg/kg | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 600301 | 0.9601 mg/kg | 98 |
| 76) | o-Xylene | 12.75 | 106 | 276428 | 0.4682 mg/kg | 95 |
| 77) | Styrene | 12.76 | 104 | 434089 | 0.4654 mg/kg | 98 |
| 78) | Bromoform | 12.99 | 173 | 98810 | 0.4569 mg/kg | 98 |
| 79) | Isopropylben | 13.28 | 105 | 706402 | 0.4635 mg/kg | 100 |
| 81) | cyclohexanone | 13.39 | 55 | 530276 | 12.6230 mg/kg | 90 |
| 83) | Bromobenzene | 13.69 | 156 | 181556 | 0.4828 mg/kg | 95 |
| 84) | 1122Tetrclta | 13.65 | 83 | 192551 | 0.4531 mg/kg | 95 |
| 85) | 123Triclproa | 13.71 | 75 | 193566 | 0.4608 mg/kg | 98 |
| 86) | 14dichloro2butene | 13.73 | 53 | 16277 | 0.4542 mg/kg | 88 |
| 87) | n-Propylbenz | 13.87 | 91 | 896922 | 0.4831 mg/kg | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 517721 | 0.4724 mg/kg | 97 |
| 89) | 4chlorotolue | 14.13 | 91 | 613675 | 0.4814 mg/kg | 97 |
| 90) | 135Trimebenz | 14.12 | 105 | 619277 | 0.4868 mg/kg | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 520994 | 0.4852 mg/kg | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 611350 | 0.4850 mg/kg | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 778449 | 0.4804 mg/kg | 99 |
| 94) | 13Diclorbenz | 15.06 | 146 | 331857 | 0.4627 mg/kg | 97 |
| 95) | pIsopropylto | 15.13 | 119 | 657360 | 0.4815 mg/kg | 98 |
| 96) | 14dichlorobe | 15.19 | 146 | 347052 | 0.4744 mg/kg | 99 |
| 97) | 12dichlorobe | 15.72 | 146 | 313426 | 0.4668 mg/kg | 98 |
| 98) | nButylbenzen | 15.73 | 91 | 631038 | 0.4714 mg/kg | 98 |
| 99) | 12dibromo3cl | 16.81 | 157 | 28578 | 0.4002 mg/kg | 96 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 210083 | 0.4408 mg/kg | 96 |
| 101) | 124Trichlobe | 17.94 | 180 | 164120 | 0.4064 mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\LCS1.D  Vial: 4
Acq On : 7 Apr 2025 10:37  Operator: RLD-DGS
Sample : 290592,LCSS,  Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 10:58:15 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 105052 | 0.4458 | mg/kg | 97 |
| 103) | Naphthalene | 18.25 | 128 | 342294 | 0.3962 | mg/kg | 96 |
| 104) | 123Trichlben | 18.56 | 180 | 147339 | 0.4265 | mg/kg | 92 |

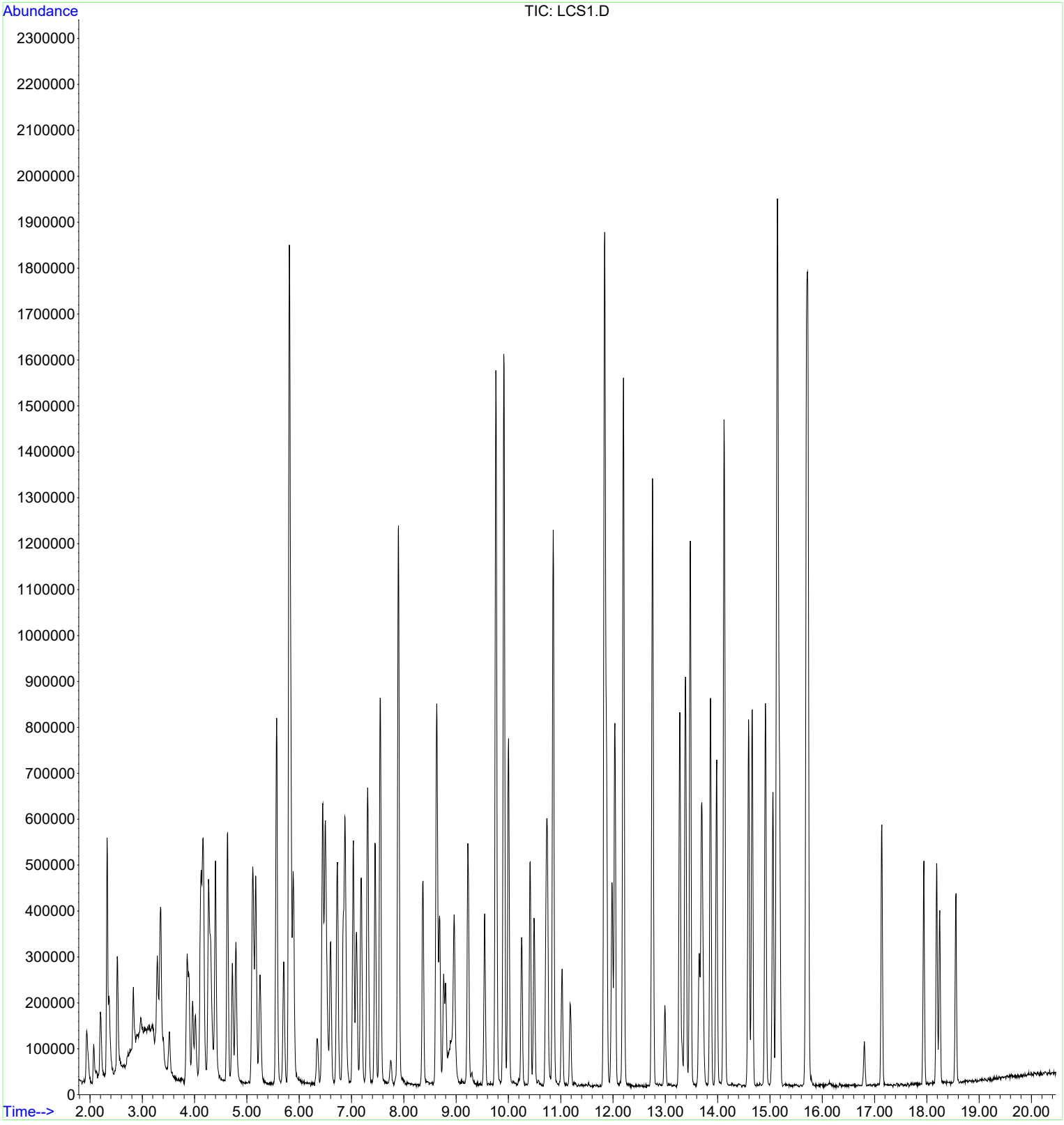
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\LCS1.D  Vial: 4
Acq On : 7 Apr 2025 10:37  Operator: RLD-DGS
Sample : 290592,LCSS,  Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 10:58:15 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\MB1.D Vial: 6
Acq On : 7 Apr 2025 11:32 Operator: RLD-DGS
Sample : 290592,MBS, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 11:53:30 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1194778 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 966531 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 467854 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 342558 | 1.064 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 106 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 75076 | 0.975 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 98 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1171267 | 0.994 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 448826 | 0.998 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 3439 | N.D. | | |
| 4) VinylChlorid | 2.44 | 62 | 1052 | N.D. | | |
| 5) Bromomethane | 2.83 | 94 | 4000 | Below Cal | # | 47 |
| 6) Chloroethane | 3.00 | 64 | 1901 | N.D. | | |
| 7) dichloroflmethane | 3.26 | 67 | 1658 | Below Cal | # | 1 |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 4.10 | 58 | 2128 | N.D. | | |
| 12) Acrolein | 3.99 | 56 | 1674 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.28 | 43 | 7898 | N.D. | | |
| 16) Iodomethane | 4.33 | 127 | 6134 | 0.1254 | mg/kg# | 62 |
| 17) Carbon Dislf | 4.39 | 76 | 4588 | N.D. | | |
| 18) allylchloride | 4.62 | 41 | 1413 | N.D. | | |
| 19) methylacetate | 4.73 | 74 | 1188 | N.D. | | |
| 20) Methylchlorid | 4.80 | 84 | 1468 | N.D. | | |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 0.00 | 59 | 0 | N.D. | | |
| 24) MtBE | 5.25 | 73 | 1116 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 5.80 | 43 | 1899 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 5.82 | 45 | 1244 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.44 | 77 | 1442 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 6.51 | 72 | 1166 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.89 | 42 | 2872 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\MB1.D Vial: 6
Acq On : 7 Apr 2025 11:32 Operator: RLD-DGS
Sample : 290592,MBS, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 11:53:30 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 6.83 | 83 | 1064 | N.D. | |
| 40) 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) Benzene | 7.56 | 78 | 1004 | N.D. | |
| 47) 12dichlorota | 7.55 | 62 | 2578 | N.D. | |
| 48) TAME | 0.00 | 73 | 0 | N.D. | |
| 49) trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) methylcyclohexane | 0.00 | 83 | 0 | N.D. | |
| 51) 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) 2Nitropropane | 9.24 | 43 | 2383 | N.D. | |
| 58) c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) 4Meth2Pentan | 9.77 | 43 | 1135 | N.D. | |
| 61) Toluene | 9.99 | 92 | 1528 | N.D. | |
| 62) t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) 2Hexanone | 10.85 | 43 | 3649 | N.D. | |
| 69) Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) 1Clhexane | 11.85 | 91 | 2941 | N.D. | |
| 73) 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) Ethylbenzene | 12.02 | 91 | 1713 | N.D. | |
| 75) m p-Xylene | 0.00 | 106 | 0 | N.D. | |
| 76) o-Xylene | 0.00 | 106 | 0 | N.D. | |
| 77) Styrene | 0.00 | 104 | 0 | N.D. | |
| 78) Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) Isopropylben | 0.00 | 105 | 0 | N.D. | |
| 81) cyclohexanone | 13.39 | 55 | 2723 | N.D. | |
| 83) Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) n-Propylbenz | 13.85 | 91 | 1994 | N.D. | |
| 88) 2chlorotolue | 13.85 | 91 | 1405 | N.D. | |
| 89) 4chlorotolue | 14.12 | 91 | 1740 | N.D. | |
| 90) 135Trimebenz | 14.11 | 105 | 2008 | N.D. | |
| 91) tbutylbenzen | 0.00 | 119 | 0 | N.D. | |
| 92) 124Trimetben | 14.66 | 105 | 1956 | N.D. | |
| 93) sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) 13Diclorbenz | 15.15 | 146 | 1250 | N.D. | |
| 95) pIsopropylto | 15.13 | 119 | 1514 | N.D. | |
| 96) 14dichlorobe | 15.18 | 146 | 1151 | N.D. | |
| 97) 12dichlorobe | 15.69 | 146 | 1083 | N.D. | |
| 98) nButylbenzen | 15.70 | 91 | 4124 | N.D. | |
| 99) 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) 124Trichlobe | 17.94 | 180 | 1919 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0725\MB1.D Vial: 6
Acq On : 7 Apr 2025 11:32 Operator: RLD-DGS
Sample : 290592,MBS, Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 11:53:30 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | |
| 103) Naphthalene | 18.24 | 128 | 6854 | N.D. | |
| 104) 123Trichlben | 18.56 | 180 | 1532 | N.D. | |

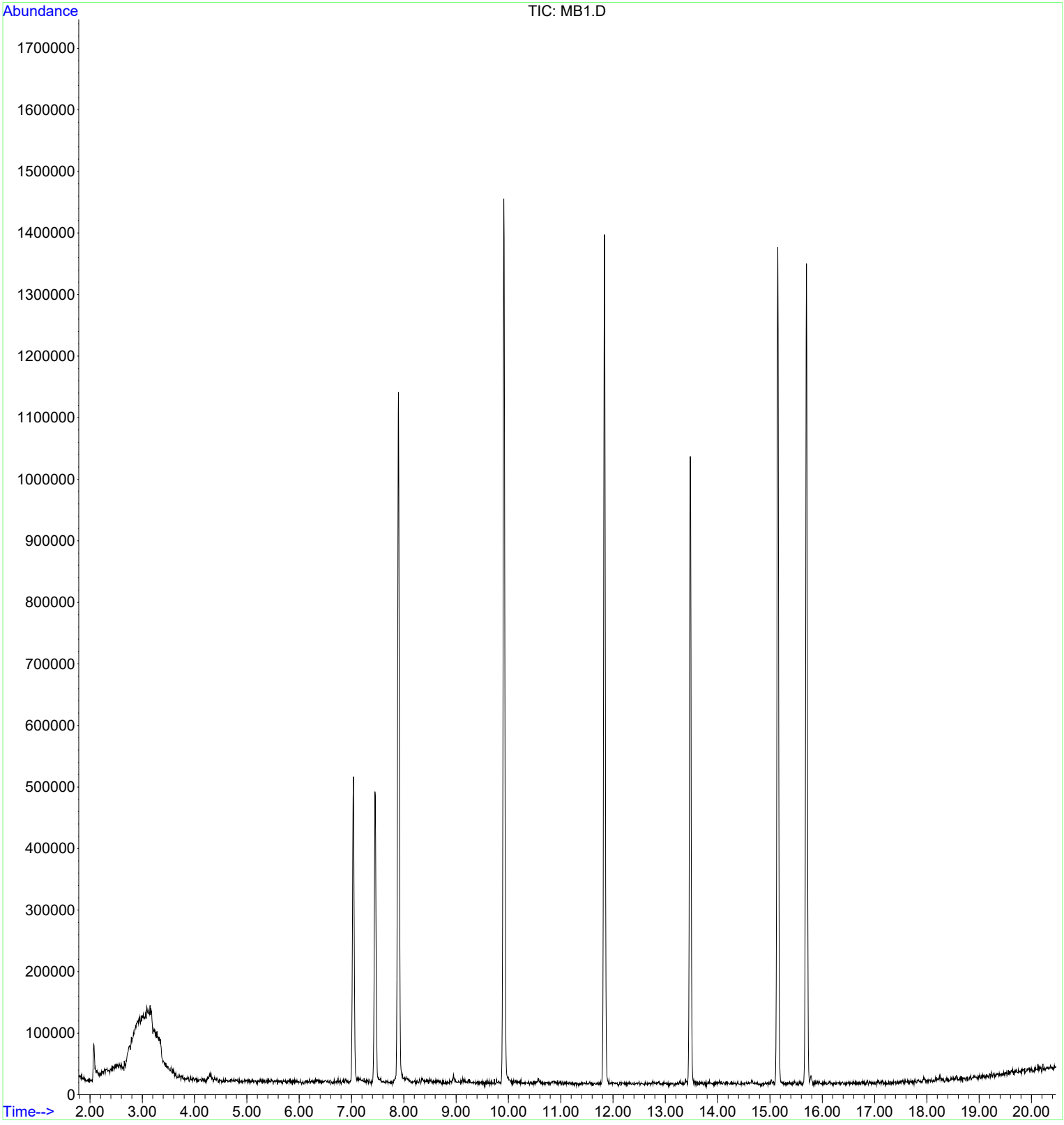
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\MB1.D  Vial: 6
Acq On : 7 Apr 2025 11:32  Operator: RLD-DGS
Sample : 290592,MBS,  Inst : VMS4
Misc : 1.0 ml Ext/50ml, 5.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 11:53:30 2025  Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568828M.D Vial: 25
Acq On : 7 Apr 2025 20:21 Operator: RLD-DGS
Sample : 290598,MSS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

NOT USED

Quant Time: Apr 07 20:42:02 2025 Results File: PS032525.RES

Reanalyzed on seq. date 040825.

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 629545 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 513268 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 263975 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 179435 | 1.058 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 106 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 40748 | 1.005 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 655958 | 1.056 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 106 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 239026 | 0.942 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 94 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 74604 | 0.4178 | mg/kg | 100 |
| 3) Chloromethan | 2.20 | 50 | 77714 | 0.3062 | mg/kg | 95 |
| 4) VinylChlorid | 2.36 | 62 | 103698 | 0.4726 | mg/kg | 97 |
| 5) Bromomethane | 2.83 | 94 | 70795 | 0.9887 | mg/kg | 95 |
| 6) Chloroethane | 2.98 | 64 | 31960 | 0.7960 | mg/kg | 96 |
| 7) dichloroflmethane | 3.30 | 67 | 265520 | 1.0342 | mg/kg | 98 |
| 8) Trichlorofma | 3.35 | 101 | 231046 | 0.8767 | mg/kg | 96 |
| 9) Ethylether | 3.89 | 59 | 56466 | 0.3752 | mg/kg | 83 |
| 10) dichlorotfluoroethan | 3.86 | 67 | 88120 | 0.4902 | mg/kg | 99 |
| 11) propyleneoxide | 4.10 | 58 | 102279 | 3.5962 | mg/kg | 93 |
| 12) Acrolein | 4.02 | 56 | 68873 | 1.9798 | mg/kg# | 1 |
| 13) 11dichlorthe | 4.13 | 96 | 71503 | 0.4860 | mg/kg | 89 |
| 14) Trichlorotfluoroeth | 4.17 | 101 | 139216 | 0.9957 | mg/kg | 98 |
| 15) Acetone | 4.26 | 43 | 428476 | 5.8737 | mg/kg | 95 |
| 16) Iodomethane | 4.31 | 127 | 64382 | 1.3146 | mg/kg# | 86 |
| 17) Carbon Dislf | 4.41 | 76 | 345490 | 0.9121 | mg/kg | 99 |
| 18) allylchloride | 4.63 | 41 | 152690 | 0.6570 | mg/kg# | 66 |
| 19) methylacetate | 4.72 | 74 | 62338 | 0.5068 | mg/kg | 95 |
| 20) Methylchlorid | 4.80 | 84 | 83825 | 0.4748 | mg/kg# | 75 |
| 21) Acrylonitrile | 5.11 | 53 | 117927 | 1.5816 | mg/kg | 96 |
| 22) t12dichlorte | 5.17 | 96 | 79759 | 0.5072 | mg/kg# | 81 |
| 23) tbutylalcohol | 5.10 | 59 | 259706 | 17.3693 | mg/kg | 98 |
| 24) MtBE | 5.25 | 73 | 148142 | 0.4334 | mg/kg | 92 |
| 25) Hexane | 5.58 | 57 | 194621 | 0.7645 | mg/kg | 97 |
| 26) 11dichlorota | 5.71 | 63 | 137041 | 0.4218 | mg/kg | 93 |
| 27) Vinylacetate | 5.81 | 43 | 689044 | 2.6236 | mg/kg | 92 |
| 28) chloroprene | 5.84 | 53 | 203213 | 0.8062 | mg/kg | 84 |
| 29) Diisopether | 5.89 | 45 | 183121 | 0.3402 | mg/kg | 82 |
| 30) ETBE | 6.35 | 59 | 54478 | 0.2627 | mg/kg | 89 |
| 31) 22dichloropr | 6.45 | 77 | 97740 | 0.4364 | mg/kg | 97 |
| 32) c12dichlorte | 6.45 | 96 | 85084 | 0.4912 | mg/kg# | 88 |
| 33) 2Butanone | 6.49 | 72 | 121909 | 6.1716 | mg/kg | 96 |
| 34) propionitrile | 6.52 | 54 | 97933 | 3.3833 | mg/kg | 98 |
| 35) Ethylacetate | 6.59 | 88 | 9079 | 2.3379 | mg/kg# | 50 |
| 36) methacrylonitrile | 6.72 | 67 | 61478 | 0.9408 | mg/kg# | 75 |
| 37) Bromochlorma | 6.73 | 128 | 37850 | 0.4936 | mg/kg# | 75 |
| 38) Tetrahydofur | 6.88 | 42 | 182551 | 3.2109 | mg/kg | 78 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568828M.D Vial: 25
Acq On : 7 Apr 2025 20:21 Operator: RLD-DGS
Sample : 290598,MSS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 20:42:02 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 150530 | 0.5304 mg/kg | 95 |
| 40) | 111trichlota | 7.10 | 97 | 125233 | 0.5068 mg/kg | 95 |
| 42) | Cyclohexane | 7.19 | 56 | 105090 | 0.3554 mg/kg# | 71 |
| 43) | Carbtetraclo | 7.32 | 119 | 109378 | 0.5188 mg/kg | 99 |
| 44) | 11dicloprope | 7.30 | 110 | 35525 | 0.4741 mg/kg | 97 |
| 46) | Benzene | 7.55 | 78 | 312558 | 0.4946 mg/kg | 98 |
| 47) | 12dichlorota | 7.55 | 62 | 116149 | 0.4991 mg/kg | 99 |
| 48) | TAME | 7.75 | 73 | 27047 | 0.2635 mg/kg | 96 |
| 49) | trichloroete | 8.36 | 95 | 90590 | 0.5394 mg/kg | 96 |
| 50) | methylcyclohexane | 8.64 | 83 | 129886 | 0.5085 mg/kg# | 84 |
| 51) | 12dicloropra | 8.63 | 63 | 83708 | 0.4275 mg/kg | 94 |
| 52) | 23dicl1propene | 8.68 | 75 | 118851 | 0.4841 mg/kg | 94 |
| 53) | Dibromometha | 8.77 | 93 | 54311 | 0.5508 mg/kg | 94 |
| 54) | methylmethacrylate | 8.80 | 69 | 44227 | 0.4487 mg/kg | 98 |
| 55) | 14dioxane | 8.86 | 88 | 47434 | 24.8424 mg/kg# | 77 |
| 56) | Bromodiclrma | 8.96 | 83 | 113531 | 0.5302 mg/kg | 97 |
| 57) | 2Nitropropane | 9.23 | 43 | 226381 | 4.4721 mg/kg | 86 |
| 58) | c13dicloproe | 9.55 | 75 | 115709 | 0.4678 mg/kg | 100 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 605635 | 4.0587 mg/kg | 99 |
| 61) | Toluene | 10.00 | 92 | 189844 | 0.4908 mg/kg | 96 |
| 62) | t13Dicloprop | 10.25 | 75 | 100731 | 0.4678 mg/kg | 99 |
| 63) | ethylmethacrylate | 10.41 | 69 | 151985 | 0.9294 mg/kg | 86 |
| 64) | 112Triclotha | 10.50 | 83 | 61585 | 0.5132 mg/kg | 98 |
| 65) | Tetrachlorte | 10.75 | 166 | 103104 | 0.5955 mg/kg | 98 |
| 66) | 13Diclorpropa | 10.73 | 76 | 116822 | 0.4958 mg/kg | 100 |
| 68) | 2Hexanone | 10.86 | 43 | 530692 | 4.6146 mg/kg | 97 |
| 69) | Clorodibrmta | 11.03 | 129 | 79538 | 0.4760 mg/kg | 97 |
| 70) | 12Dibrometha | 11.18 | 107 | 73429 | 0.4663 mg/kg | 99 |
| 71) | Chlorobenzen | 11.88 | 112 | 225110 | 0.4871 mg/kg | 96 |
| 72) | 1Clhexane | 11.85 | 91 | 106129 | 0.4683 mg/kg | 87 |
| 73) | 1112Tetclota | 11.98 | 131 | 74359 | 0.4688 mg/kg | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 364313 | 0.4765 mg/kg | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 277016 | 0.9288 mg/kg | 100 |
| 76) | o-Xylene | 12.75 | 106 | 129191 | 0.4587 mg/kg | 95 |
| 77) | Styrene | 12.76 | 104 | 209728 | 0.4714 mg/kg | 98 |
| 78) | Bromoform | 12.99 | 173 | 44926 | 0.4355 mg/kg | 95 |
| 79) | Isopropylben | 13.28 | 105 | 334762 | 0.4604 mg/kg | 99 |
| 81) | cyclohexanone | 13.39 | 55 | 266235 | 13.1821 mg/kg | 81 |
| 83) | Bromobenzene | 13.69 | 156 | 81832 | 0.4526 mg/kg | 100 |
| 84) | 1122Tetrclta | 13.65 | 83 | 92564 | 0.4530 mg/kg | 98 |
| 85) | 123Triclproa | 13.71 | 75 | 95552 | 0.4731 mg/kg | 97 |
| 86) | 14dichloro2butene | 13.73 | 53 | 8450 | 0.4904 mg/kg | 91 |
| 87) | n-Propylbenz | 13.86 | 91 | 430706 | 0.4826 mg/kg | 99 |
| 88) | 2chlorotolue | 13.98 | 91 | 249012 | 0.4726 mg/kg | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 286069 | 0.4667 mg/kg | 94 |
| 90) | 135Trimebenz | 14.12 | 105 | 290979 | 0.4758 mg/kg | 98 |
| 91) | tbutylbenzen | 14.60 | 119 | 242520 | 0.4698 mg/kg | 97 |
| 92) | 124Trimetben | 14.66 | 105 | 282622 | 0.4664 mg/kg | 98 |
| 93) | sbutylbenzen | 14.91 | 105 | 368960 | 0.4736 mg/kg | 99 |
| 94) | 13Diclorbenz | 15.05 | 146 | 160311 | 0.4649 mg/kg | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 315410 | 0.4805 mg/kg | 99 |
| 96) | 14dichlorobe | 15.18 | 146 | 167704 | 0.4768 mg/kg | 98 |
| 97) | 12dichlorobe | 15.72 | 146 | 151173 | 0.4683 mg/kg | 96 |
| 98) | nButylbenzen | 15.73 | 91 | 324331 | 0.5039 mg/kg | 95 |
| 99) | 12dibromo3cl | 16.80 | 157 | 12463 | 0.3630 mg/kg | 95 |
| 100) | 135Trichlorobenzene | 17.13 | 180 | 100097 | 0.4368 mg/kg | 96 |
| 101) | 124Trichlobe | 17.94 | 180 | 80285 | 0.4136 mg/kg | 93 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568828M.D Vial: 25
Acq On : 7 Apr 2025 20:21 Operator: RLD-DGS
Sample : 290598,MSS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 20:42:02 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

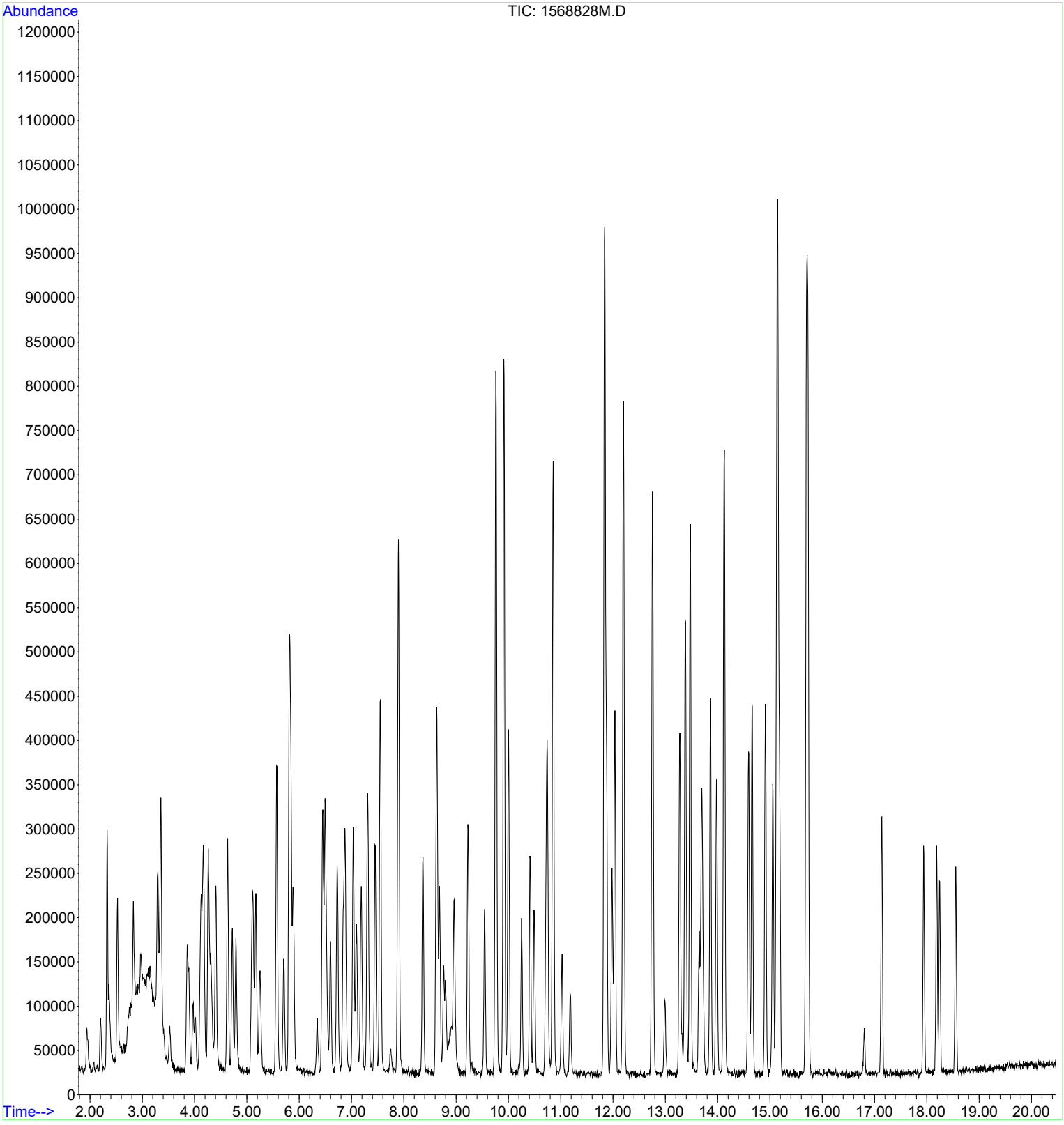
| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 48573 | 0.4288 | mg/kg | 99 |
| 103) | Naphthalene | 18.25 | 128 | 197762 | 0.4761 | mg/kg | 96 |
| 104) | 123Trichlben | 18.56 | 180 | 74171 | 0.4466 | mg/kg | 93 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0725\1568828M.D Vial: 25
Acq On : 7 Apr 2025 20:21 Operator: RLD-DGS
Sample : 290598,MSS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 20:42:02 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568828S.D Vial: 26
Acq On : 7 Apr 2025 20:49 Operator: RLD-DGS
Sample : 290598,MSDS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

NOT USED

Reanalyzed on seq. date 040825.

Quant Time: Apr 07 21:09:41 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 636138 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 524978 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 263053 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 176557 | 1.030 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 103 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 40753 | 0.994 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 99 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 646830 | 1.031 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 103 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 240339 | 0.950 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 95 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 75914 | 0.4207 | mg/kg | 100 |
| 3) Chloromethan | 2.20 | 50 | 75579 | 0.2947 | mg/kg | 100 |
| 4) VinylChlorid | 2.36 | 62 | 102211 | 0.4610 | mg/kg | 95 |
| 5) Bromomethane | 2.83 | 94 | 73178 | 1.0147 | mg/kg | 85 |
| 6) Chloroethane | 2.97 | 64 | 31470 | 0.7756 | mg/kg | 99 |
| 7) dichloroflmethane | 3.29 | 67 | 262107 | 1.0097 | mg/kg | 97 |
| 8) Trichlorofma | 3.35 | 101 | 204631 | 0.7684 | mg/kg | 98 |
| 9) Ethylether | 3.89 | 59 | 51611 | 0.3393 | mg/kg | 92 |
| 10) dichlorotfluoroethan | 3.86 | 67 | 85726 | 0.4720 | mg/kg | 96 |
| 11) propyleneoxide | 4.10 | 58 | 103317 | 3.5950 | mg/kg | 90 |
| 12) Acrolein | 4.02 | 56 | 67726 | 1.9266 | mg/kg# | 1 |
| 13) 11dichlorthe | 4.13 | 96 | 69179 | 0.4653 | mg/kg | 91 |
| 14) Trichlorotfluoroeth | 4.17 | 101 | 140119 | 0.9918 | mg/kg | 98 |
| 15) Acetone | 4.27 | 43 | 428247 | 5.8098 | mg/kg | 96 |
| 16) Iodomethane | 4.32 | 127 | 65224 | 1.3176 | mg/kg# | 87 |
| 17) Carbon Dislf | 4.40 | 76 | 333601 | 0.8716 | mg/kg | 99 |
| 18) allylchloride | 4.64 | 41 | 143518 | 0.6111 | mg/kg# | 61 |
| 19) methylacetate | 4.72 | 74 | 67746 | 0.5450 | mg/kg | 93 |
| 20) Methylchlorid | 4.80 | 84 | 83507 | 0.4680 | mg/kg# | 72 |
| 21) Acrylonitrile | 5.11 | 53 | 120239 | 1.5958 | mg/kg | 99 |
| 22) t12dichlorte | 5.17 | 96 | 71970 | 0.4530 | mg/kg | 90 |
| 23) tbutylalcohol | 5.09 | 59 | 246546 | 16.3183 | mg/kg | 100 |
| 24) MtBE | 5.25 | 73 | 141269 | 0.4090 | mg/kg | 92 |
| 25) Hexane | 5.57 | 57 | 186683 | 0.7257 | mg/kg | 96 |
| 26) 11dichlorota | 5.70 | 63 | 140063 | 0.4266 | mg/kg | 95 |
| 27) Vinylacetate | 5.81 | 43 | 564318 | 2.1264 | mg/kg | 92 |
| 28) chloroprene | 5.84 | 53 | 201576 | 0.7914 | mg/kg | 85 |
| 29) Diisopether | 5.89 | 45 | 182713 | 0.3359 | mg/kg | 80 |
| 30) ETBE | 6.34 | 59 | 50051 | 0.2413 | mg/kg | 97 |
| 31) 22dichloropr | 6.46 | 77 | 92129 | 0.4071 | mg/kg | 96 |
| 32) c12dichlorte | 6.45 | 96 | 85122 | 0.4863 | mg/kg# | 84 |
| 33) 2Butanone | 6.49 | 72 | 118555 | 5.9396 | mg/kg | 90 |
| 34) propionitrile | 6.52 | 54 | 103154 | 3.5267 | mg/kg | 99 |
| 35) Ethylacetate | 6.60 | 88 | 9160 | 2.3344 | mg/kg# | 54 |
| 36) methacrylonitrile | 6.72 | 67 | 63208 | 0.9573 | mg/kg# | 71 |
| 37) Bromochlorma | 6.73 | 128 | 38143 | 0.4923 | mg/kg# | 76 |
| 38) Tetrahydofur | 6.88 | 42 | 172571 | 3.0039 | mg/kg | 70 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568828S.D Vial: 26
Acq On : 7 Apr 2025 20:49 Operator: RLD-DGS
Sample : 290598,MSDS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 21:09:41 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 6.85 | 83 | 144942 | 0.5054 mg/kg | 100 |
| 40) 111trichlota | 7.09 | 97 | 127052 | 0.5088 mg/kg | 97 |
| 42) Cyclohexane | 7.19 | 56 | 105536 | 0.3532 mg/kg# | 70 |
| 43) Carbtetraclo | 7.31 | 119 | 107723 | 0.5056 mg/kg | 100 |
| 44) 11dicloprope | 7.30 | 110 | 34765 | 0.4592 mg/kg | 96 |
| 46) Benzene | 7.55 | 78 | 306308 | 0.4796 mg/kg | 96 |
| 47) 12dichlorota | 7.55 | 62 | 115177 | 0.4898 mg/kg | 99 |
| 48) TAME | 7.75 | 73 | 26833 | 0.2595 mg/kg | 92 |
| 49) trichloroete | 8.37 | 95 | 89685 | 0.5285 mg/kg | 98 |
| 50) methylcyclohexane | 8.64 | 83 | 127999 | 0.4960 mg/kg# | 80 |
| 51) 12dicloropra | 8.62 | 63 | 85644 | 0.4329 mg/kg | 91 |
| 52) 23dicl1propene | 8.68 | 75 | 114860 | 0.4630 mg/kg | 94 |
| 53) Dibromometha | 8.76 | 93 | 52161 | 0.5235 mg/kg | 92 |
| 54) methylmethacrylate | 8.80 | 69 | 44161 | 0.4434 mg/kg | 99 |
| 55) 14dioxane | 8.84 | 88 | 44160 | 22.8880 mg/kg | 80 |
| 56) Bromodiclrma | 8.96 | 83 | 112250 | 0.5188 mg/kg | 99 |
| 57) 2Nitropropane | 9.23 | 43 | 225560 | 4.4097 mg/kg | 85 |
| 58) c13dicloproe | 9.55 | 75 | 112779 | 0.4513 mg/kg | 100 |
| 59) 4Meth2Pentan | 9.76 | 43 | 594771 | 3.9445 mg/kg | 99 |
| 61) Toluene | 10.00 | 92 | 191933 | 0.4911 mg/kg | 99 |
| 62) t13Dicloprop | 10.25 | 75 | 105975 | 0.4871 mg/kg | 98 |
| 63) ethylmethacrylate | 10.42 | 69 | 156075 | 0.9445 mg/kg | 86 |
| 64) 112Triclotha | 10.49 | 83 | 60328 | 0.4975 mg/kg | 98 |
| 65) Tetrachlorte | 10.75 | 166 | 100968 | 0.5771 mg/kg | 98 |
| 66) 13Diclorpropa | 10.72 | 76 | 113079 | 0.4749 mg/kg | 100 |
| 68) 2Hexanone | 10.86 | 43 | 524051 | 4.4552 mg/kg | 98 |
| 69) Clorodibrmta | 11.03 | 129 | 80698 | 0.4722 mg/kg | 98 |
| 70) 12Dibrometha | 11.18 | 107 | 71829 | 0.4460 mg/kg | 96 |
| 71) Chlorobenzen | 11.88 | 112 | 213702 | 0.4521 mg/kg | 99 |
| 72) 1Clhexane | 11.85 | 91 | 106020 | 0.4574 mg/kg# | 80 |
| 73) 1112Tetclota | 11.98 | 131 | 77160 | 0.4756 mg/kg | 99 |
| 74) Ethylbenzene | 12.04 | 91 | 355310 | 0.4544 mg/kg | 98 |
| 75) m p-Xylene | 12.20 | 106 | 272573 | 0.8935 mg/kg | 99 |
| 76) o-Xylene | 12.75 | 106 | 128208 | 0.4451 mg/kg | 98 |
| 77) Styrene | 12.76 | 104 | 208451 | 0.4580 mg/kg | 98 |
| 78) Bromoform | 13.00 | 173 | 46497 | 0.4407 mg/kg | 98 |
| 79) Isopropylben | 13.28 | 105 | 326054 | 0.4385 mg/kg | 99 |
| 81) cyclohexanone | 13.38 | 55 | 252136 | 12.5278 mg/kg | 79 |
| 83) Bromobenzene | 13.69 | 156 | 83235 | 0.4620 mg/kg | 96 |
| 84) 1122Tetrclta | 13.64 | 83 | 91779 | 0.4508 mg/kg | 96 |
| 85) 123Triclproa | 13.71 | 75 | 92707 | 0.4606 mg/kg | 97 |
| 86) 14dichloro2butene | 13.74 | 53 | 6767 | 0.3941 mg/kg | 94 |
| 87) n-Propylbenz | 13.86 | 91 | 422788 | 0.4753 mg/kg | 99 |
| 88) 2chlorotolue | 13.98 | 91 | 240921 | 0.4588 mg/kg | 97 |
| 89) 4chlorotolue | 14.13 | 91 | 284438 | 0.4657 mg/kg | 95 |
| 90) 135Trimebenz | 14.12 | 105 | 293404 | 0.4814 mg/kg | 99 |
| 91) tbutylbenzen | 14.59 | 119 | 234123 | 0.4551 mg/kg | 98 |
| 92) 124Trimetben | 14.66 | 105 | 287187 | 0.4756 mg/kg | 100 |
| 93) sbutylbenzen | 14.91 | 105 | 373279 | 0.4808 mg/kg | 100 |
| 94) 13Diclorbenz | 15.05 | 146 | 160226 | 0.4663 mg/kg | 99 |
| 95) pIsopropylto | 15.13 | 119 | 320319 | 0.4897 mg/kg | 97 |
| 96) 14dichlorobe | 15.19 | 146 | 166435 | 0.4749 mg/kg | 97 |
| 97) 12dichlorobe | 15.72 | 146 | 152945 | 0.4755 mg/kg | 98 |
| 98) nButylbenzen | 15.72 | 91 | 324095 | 0.5053 mg/kg | 96 |
| 99) 12dibromo3cl | 16.80 | 157 | 12585 | 0.3678 mg/kg | 91 |
| 100) 135Trichlorobenzene | 17.14 | 180 | 105730 | 0.4630 mg/kg | 89 |
| 101) 124Trichlobe | 17.94 | 180 | 84092 | 0.4347 mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568828S.D Vial: 26
Acq On : 7 Apr 2025 20:49 Operator: RLD-DGS
Sample : 290598,MSDS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 21:09:41 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 47251 | 0.4186 | mg/kg | 97 |
| 103) | Naphthalene | 18.25 | 128 | 196315 | 0.4743 | mg/kg | 98 |
| 104) | 123Trichlben | 18.55 | 180 | 75636 | 0.4570 | mg/kg | 95 |

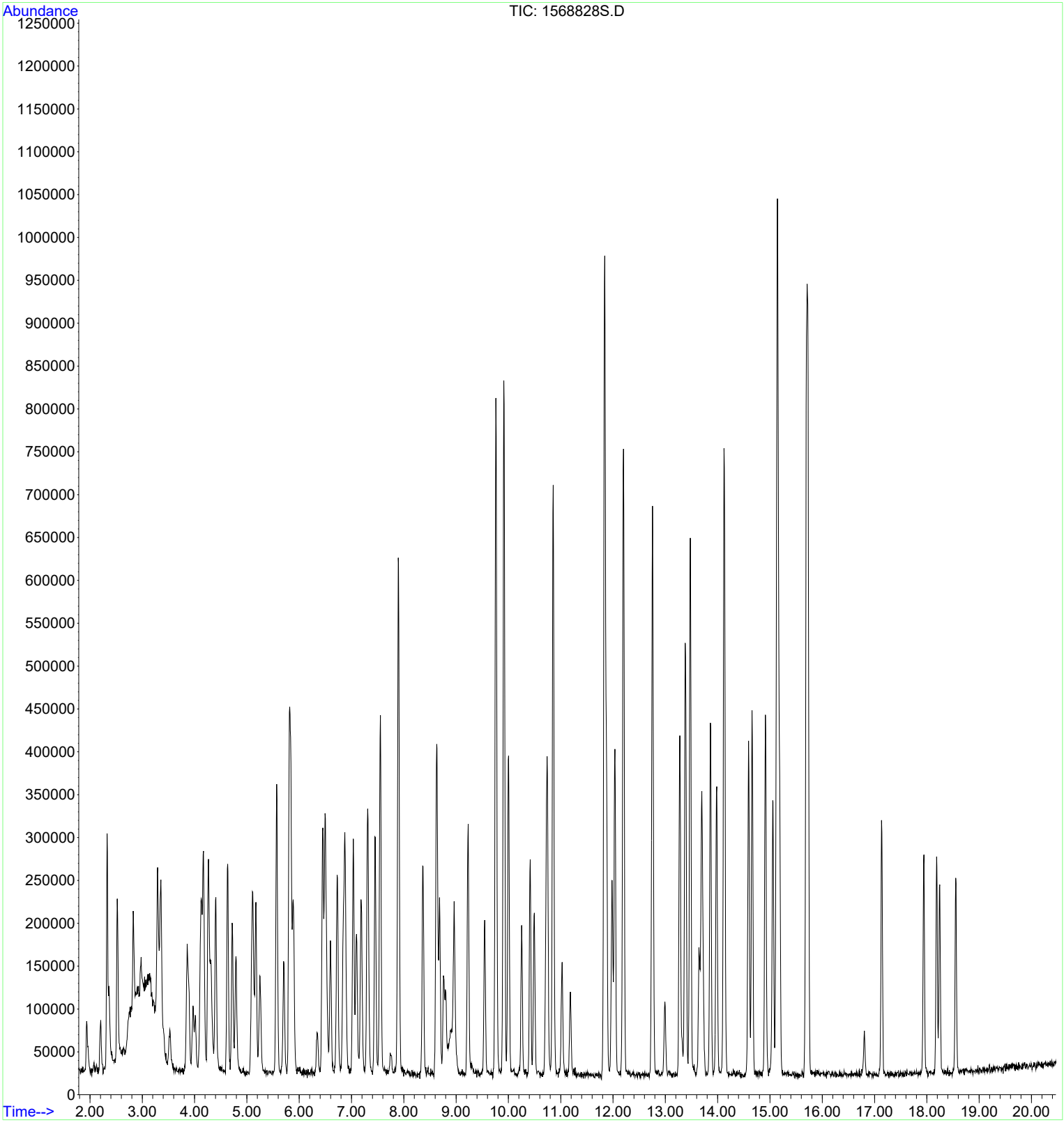
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0725\1568828S.D Vial: 26
Acq On : 7 Apr 2025 20:49 Operator: RLD-DGS
Sample : 290598,MSDS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 07 21:09:41 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Mon Apr 07 10:35:31 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568828M.D Vial: 19
Acq On : 8 Apr 2025 17:01 Operator: RLD-DGS
Sample : 290598,MSS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Report

Quant Time: Apr 08 17:21:53 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

See seq. date 040725 for original analysis.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1095078 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 911524 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 640831 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 315473 | 1.069 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 107 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 68069 | 0.965 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 97 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1116883 | 1.034 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 103 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 456141 | 0.740 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 74 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 163370 | 0.5260 | mg/kg | 96 |
| 3) Chloromethan | 2.20 | 50 | 163916 | 0.3713 | mg/kg | 97 |
| 4) VinylChlorid | 2.36 | 62 | 189555 | 0.4967 | mg/kg | 95 |
| 5) Bromomethane | 2.83 | 94 | 76272 | 0.5677 | mg/kg | 93 |
| 6) Chloroethane | 2.97 | 64 | 36582 | 0.5238 | mg/kg | 95 |
| 7) dichloroflmethane | 3.29 | 67 | 297402 | 0.6586 | mg/kg | 92 |
| 8) Trichlorofma | 3.35 | 101 | 332593 | 0.7255 | mg/kg | 97 |
| 9) Ethylether | 3.90 | 59 | 162847 | 0.6220 | mg/kg | 95 |
| 10) dichlorotfluoroethan | 3.86 | 67 | 193175 | 0.6178 | mg/kg | 94 |
| 11) propyleneoxide | 4.10 | 58 | 294192 | 5.9465 | mg/kg | 96 |
| 12) Acrolein | 4.02 | 56 | 182721 | 3.0195 | mg/kg# | 1 |
| 13) 11dichlorthe | 4.13 | 96 | 180863 | 0.7067 | mg/kg# | 84 |
| 14) Trichlorotfluoroeth | 4.16 | 101 | 341373 | 1.4037 | mg/kg | 98 |
| 15) Acetone | 4.27 | 43 | 1042611 | 8.2166 | mg/kg | 92 |
| 16) Iodomethane | 4.31 | 127 | 177650 | 1.9981 | mg/kg | 92 |
| 17) Carbon Dislf | 4.41 | 76 | 824235 | 1.2509 | mg/kg | 100 |
| 18) allylchloride | 4.63 | 41 | 419831 | 1.0385 | mg/kg | 93 |
| 19) methylacetate | 4.72 | 74 | 140695 | 0.6575 | mg/kg | 94 |
| 20) Methylchlorid | 4.78 | 84 | 206940 | 0.6738 | mg/kg# | 78 |
| 21) Acrylonitrile | 5.11 | 53 | 256726 | 1.9794 | mg/kg | 98 |
| 22) t12dichlorte | 5.17 | 96 | 150164 | 0.5490 | mg/kg | 91 |
| 23) tbutylalcohol | 5.11 | 59 | 489516 | 18.8213 | mg/kg | 99 |
| 24) MtBE | 5.25 | 73 | 278854 | 0.4690 | mg/kg | 95 |
| 25) Hexane | 5.57 | 57 | 352121 | 0.7951 | mg/kg | 98 |
| 26) 11dichlorota | 5.70 | 63 | 273632 | 0.4841 | mg/kg | 94 |
| 27) Vinylacetate | 5.81 | 43 | 1998901 | 4.3754 | mg/kg | 93 |
| 28) chloroprene | 5.84 | 53 | 404716 | 0.9231 | mg/kg | 91 |
| 29) Diisopether | 5.89 | 45 | 374135 | 0.3995 | mg/kg | 89 |
| 30) ETBE | 6.34 | 59 | 112772 | 0.3074 | mg/kg | 95 |
| 31) 22dichloropr | 6.45 | 77 | 173092 | 0.4443 | mg/kg | 99 |
| 32) c12dichlorte | 6.44 | 96 | 156739 | 0.5202 | mg/kg | 94 |
| 33) 2Butanone | 6.49 | 72 | 234743 | 6.8318 | mg/kg | 92 |
| 34) propionitrile | 6.52 | 54 | 204744 | 4.0663 | mg/kg | 99 |
| 35) Ethylacetate | 6.60 | 88 | 17005 | 2.5174 | mg/kg# | 57 |
| 36) methacrylonitrile | 6.72 | 67 | 111657 | 0.9823 | mg/kg# | 82 |
| 37) Bromochlorma | 6.74 | 128 | 78318 | 0.5872 | mg/kg# | 76 |
| 38) Tetrahydofur | 6.88 | 42 | 361151 | 3.6519 | mg/kg | 78 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568828M.D Vial: 19
Acq On : 8 Apr 2025 17:01 Operator: RLD-DGS
Sample : 290598,MSS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 17:21:53 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 287951 | 0.5833 | mg/kg | 99 |
| 40) | 111trichlota | 7.10 | 97 | 237413 | 0.5523 | mg/kg | 97 |
| 42) | Cyclohexane | 7.19 | 56 | 208050 | 0.4045 | mg/kg | 80 |
| 43) | Carbtetraclo | 7.31 | 119 | 214545 | 0.5850 | mg/kg | 98 |
| 44) | 11dicloprope | 7.30 | 110 | 68704 | 0.5271 | mg/kg | 96 |
| 46) | Benzene | 7.55 | 78 | 580858 | 0.5284 | mg/kg | 98 |
| 47) | 12dichlorota | 7.55 | 62 | 229493 | 0.5670 | mg/kg | 98 |
| 48) | TAME | 7.75 | 73 | 55911 | 0.3054 | mg/kg | 94 |
| 49) | trichloroete | 8.36 | 95 | 183399 | 0.6278 | mg/kg | 93 |
| 50) | methylcyclohexane | 8.64 | 83 | 223865 | 0.5039 | mg/kg | 88 |
| 51) | 12dicloropra | 8.62 | 63 | 159481 | 0.4683 | mg/kg | 86 |
| 52) | 23dicl1propene | 8.68 | 75 | 221701 | 0.5191 | mg/kg | 95 |
| 53) | Dibromometha | 8.76 | 93 | 97609 | 0.5691 | mg/kg | 93 |
| 54) | methylmethacrylate | 8.81 | 69 | 87555 | 0.5107 | mg/kg | 100 |
| 55) | 14dioxane | 8.85 | 88 | 88546 | 26.6596 | mg/kg | 82 |
| 56) | Bromodiclrma | 8.96 | 83 | 212834 | 0.5714 | mg/kg | 97 |
| 57) | 2Nitropropane | 9.23 | 43 | 419781 | 4.7673 | mg/kg | 92 |
| 58) | c13dicloproe | 9.54 | 75 | 226089 | 0.5255 | mg/kg | 99 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 1139705 | 4.3908 | mg/kg | 97 |
| 61) | Toluene | 10.00 | 92 | 365020 | 0.5425 | mg/kg | 98 |
| 62) | t13Dicloprop | 10.25 | 75 | 191957 | 0.5125 | mg/kg | 99 |
| 63) | ethylmethacrylate | 10.42 | 69 | 295752 | 1.0397 | mg/kg | 86 |
| 64) | 112Triclotha | 10.50 | 83 | 110488 | 0.5293 | mg/kg | 94 |
| 65) | Tetrachlorte | 10.75 | 166 | 227667 | 0.7559 | mg/kg | 97 |
| 66) | 13Diclorpropa | 10.72 | 76 | 225369 | 0.5498 | mg/kg | 97 |
| 68) | 2Hexanone | 10.86 | 43 | 979800 | 4.7974 | mg/kg | 98 |
| 69) | Clorodibrmta | 11.03 | 129 | 158602 | 0.5345 | mg/kg | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 142386 | 0.5091 | mg/kg | 96 |
| 71) | Chlorobenzen | 11.87 | 112 | 414153 | 0.5046 | mg/kg | 100 |
| 72) | 1Clhexane | 11.85 | 91 | 180561 | 0.4487 | mg/kg | 92 |
| 73) | 1112Tetclota | 11.98 | 131 | 147720 | 0.5244 | mg/kg | 97 |
| 74) | Ethylbenzene | 12.04 | 91 | 691242 | 0.5091 | mg/kg | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 521964 | 0.9854 | mg/kg | 94 |
| 76) | o-Xylene | 12.75 | 106 | 251631 | 0.5031 | mg/kg | 100 |
| 77) | Styrene | 12.76 | 104 | 405197 | 0.5128 | mg/kg | 97 |
| 78) | Bromoform | 12.99 | 173 | 90288 | 0.4928 | mg/kg | 98 |
| 79) | Isopropylben | 13.28 | 105 | 642850 | 0.4979 | mg/kg | 98 |
| 81) | cyclohexanone | 13.38 | 55 | 532651 | 10.8638 | mg/kg | 88 |
| 83) | Bromobenzene | 13.70 | 156 | 164414 | 0.3746 | mg/kg | 94 |
| 84) | 1122Tetrclta | 13.65 | 83 | 175018 | 0.3529 | mg/kg | 99 |
| 85) | 123Triclproa | 13.71 | 75 | 175658 | 0.3583 | mg/kg | 97 |
| 86) | 14dichloro2butene | 13.73 | 53 | 13701 | 0.3276 | mg/kg | 87 |
| 87) | n-Propylbenz | 13.86 | 91 | 808557 | 0.3732 | mg/kg | 98 |
| 88) | 2chlorotolue | 13.98 | 91 | 501551 | 0.3921 | mg/kg | 97 |
| 89) | 4chlorotolue | 14.13 | 91 | 725841 | 0.4878 | mg/kg | 97 |
| 90) | 135Trimebenz | 14.12 | 105 | 717275 | 0.4831 | mg/kg | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 612821 | 0.4890 | mg/kg | 99 |
| 92) | 124Trimetben | 14.66 | 105 | 748976 | 0.5091 | mg/kg | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 912711 | 0.4826 | mg/kg | 99 |
| 94) | 13Diclorbenz | 15.06 | 146 | 423050 | 0.5054 | mg/kg | 98 |
| 95) | pIsopropylto | 15.13 | 119 | 807809 | 0.5070 | mg/kg | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 422640 | 0.4950 | mg/kg | 99 |
| 97) | 12dichlorobe | 15.72 | 146 | 370321 | 0.4726 | mg/kg | 97 |
| 98) | nButylbenzen | 15.73 | 91 | 719504 | 0.4605 | mg/kg | 99 |
| 99) | 12dibromo3cl | 16.80 | 157 | 38363 | 0.4603 | mg/kg | 98 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 270562 | 0.4864 | mg/kg | 93 |
| 101) | 124Trichlobe | 17.94 | 180 | 169727 | 0.3601 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568828M.D Vial: 19
Acq On : 8 Apr 2025 17:01 Operator: RLD-DGS
Sample : 290598,MSS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 17:21:53 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 98328 | 0.3575 | mg/kg | 96 |
| 103) Naphthalene | 18.25 | 128 | 402515 | 0.3992 | mg/kg | 96 |
| 104) 123Trichlben | 18.55 | 180 | 148807 | 0.3691 | mg/kg | 97 |

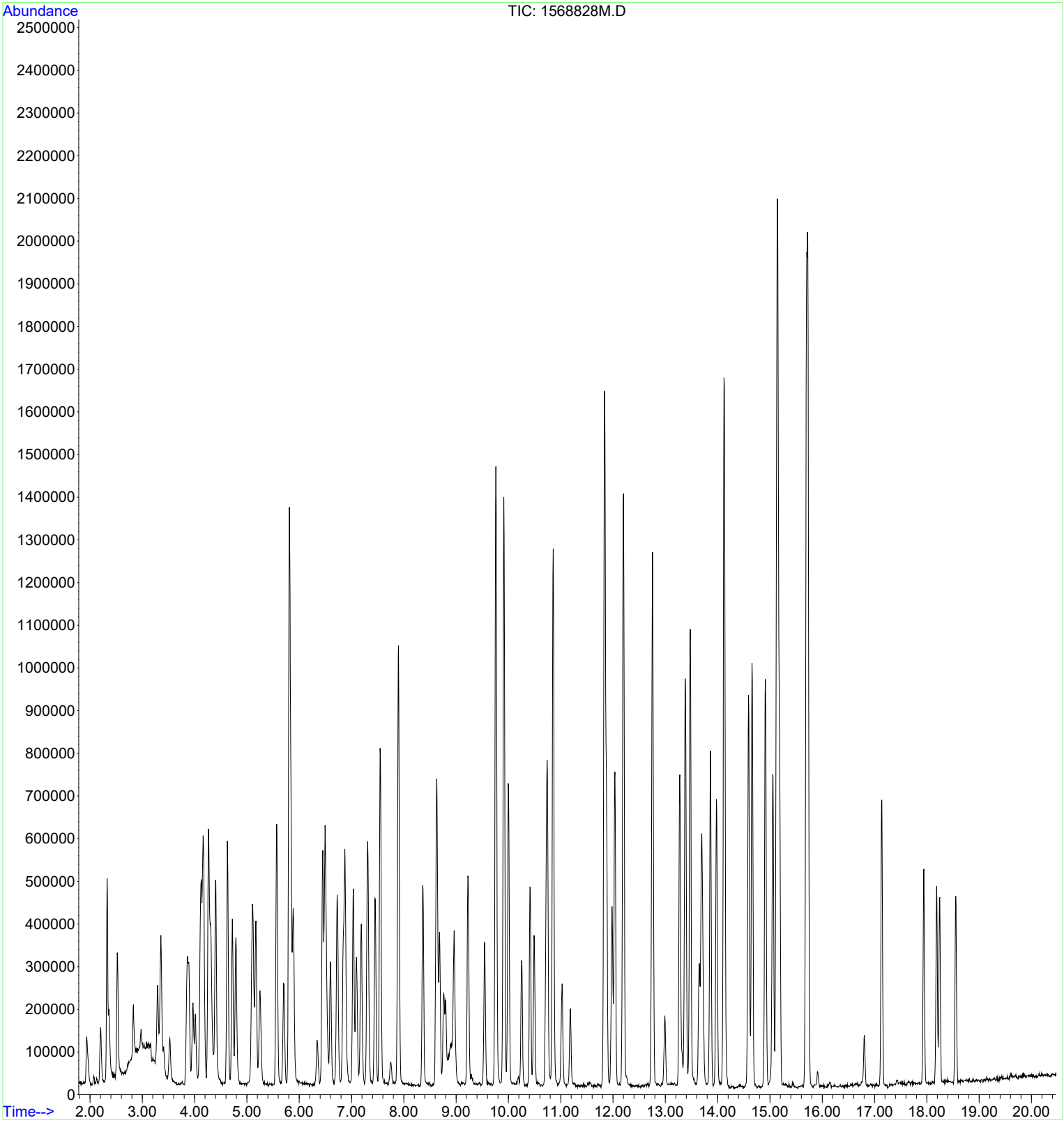
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568828M.D Vial: 19
Acq On : 8 Apr 2025 17:01 Operator: RLD-DGS
Sample : 290598,MSS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 17:21:53 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568828S.D Vial: 20
Acq On : 8 Apr 2025 17:29 Operator: RLD-DGS
Sample : 290598,MSDS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Report

Quant Time: Apr 08 17:49:40 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

See seq. date 040725 for original analysis.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.89 | 96 | 1328080 | 1.00 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 945851 | 1.00 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 478246 | 1.00 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 336963 | 0.942 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 94 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 81665 | 0.954 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 95 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1160845 | 0.886 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 89 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 476340 | 1.036 | mg/kg | 0.00 |
| Spiked Amount 1.000 | Range 70 - 130 | | Recovery = 104 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 171269 | 0.4547 | mg/kg | 99 |
| 3) Chloromethan | 2.20 | 50 | 167149 | 0.3122 | mg/kg | 97 |
| 4) VinylChlorid | 2.36 | 62 | 188598 | 0.4075 | mg/kg | 95 |
| 5) Bromomethane | 2.83 | 94 | 75636 | 0.4463 | mg/kg | 91 |
| 6) Chloroethane | 2.98 | 64 | 39876 | 0.4708 | mg/kg | 93 |
| 7) dichloroflmethane | 3.29 | 67 | 275501 | 0.5000 | mg/kg | 98 |
| 8) Trichlorofma | 3.36 | 101 | 343431 | 0.6177 | mg/kg | 97 |
| 9) Ethylether | 3.89 | 59 | 120181 | 0.3785 | mg/kg | 91 |
| 10) dichlorotfluoroethan | 3.85 | 67 | 165196 | 0.4356 | mg/kg | 99 |
| 11) propyleneoxide | 4.11 | 58 | 215252 | 3.5876 | mg/kg | 96 |
| 12) Acrolein | 4.01 | 56 | 140497 | 1.9144 | mg/kg# | 1 |
| 13) 11dichlorthe | 4.13 | 96 | 137271 | 0.4423 | mg/kg | 94 |
| 14) Trichlorotfluoroeth | 4.17 | 101 | 274725 | 0.9314 | mg/kg | 99 |
| 15) Acetone | 4.27 | 43 | 861556 | 5.5985 | mg/kg | 97 |
| 16) Iodomethane | 4.32 | 127 | 147387 | 1.4160 | mg/kg# | 84 |
| 17) Carbon Dislf | 4.40 | 76 | 669623 | 0.8380 | mg/kg | 99 |
| 18) allylchloride | 4.63 | 41 | 326268 | 0.6655 | mg/kg | 82 |
| 19) methylacetate | 4.72 | 74 | 119998 | 0.4624 | mg/kg | 91 |
| 20) Methylchlorid | 4.79 | 84 | 162454 | 0.4361 | mg/kg# | 79 |
| 21) Acrylonitrile | 5.11 | 53 | 254883 | 1.6204 | mg/kg | 98 |
| 22) t12dichlorte | 5.17 | 96 | 149221 | 0.4498 | mg/kg | 91 |
| 23) tbutylalcohol | 5.09 | 59 | 500559 | 15.8693 | mg/kg | 97 |
| 24) MtBE | 5.25 | 73 | 287533 | 0.3987 | mg/kg | 95 |
| 25) Hexane | 5.57 | 57 | 386615 | 0.7199 | mg/kg | 98 |
| 26) 11dichlorota | 5.70 | 63 | 277638 | 0.4050 | mg/kg | 95 |
| 27) Vinylacetate | 5.81 | 43 | 1939288 | 3.5002 | mg/kg | 94 |
| 28) chloroprene | 5.84 | 53 | 426413 | 0.8019 | mg/kg | 92 |
| 29) Diisopether | 5.89 | 45 | 390215 | 0.3436 | mg/kg | 91 |
| 30) ETBE | 6.34 | 59 | 120360 | 0.2739 | mg/kg | 94 |
| 31) 22dichloropr | 6.45 | 77 | 195080 | 0.4129 | mg/kg | 98 |
| 32) c12dichlorte | 6.45 | 96 | 165827 | 0.4538 | mg/kg# | 89 |
| 33) 2Butanone | 6.49 | 72 | 222018 | 5.3279 | mg/kg | 93 |
| 34) propionitrile | 6.52 | 54 | 203005 | 3.3244 | mg/kg | 97 |
| 35) Ethylacetate | 6.60 | 88 | 15675 | 1.9134 | mg/kg# | 72 |
| 36) methacrylonitrile | 6.72 | 67 | 110066 | 0.7985 | mg/kg# | 86 |
| 37) Bromochlorma | 6.73 | 128 | 76820 | 0.4749 | mg/kg# | 75 |
| 38) Tetrahydofur | 6.88 | 42 | 366773 | 3.0580 | mg/kg | 81 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0825\1568828S.D Vial: 20
Acq On : 8 Apr 2025 17:29 Operator: RLD-DGS
Sample : 290598,MSDS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 17:49:40 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.84 | 83 | 284435 | 0.4751 | mg/kg | 99 |
| 40) | 111trichlota | 7.10 | 97 | 270203 | 0.5183 | mg/kg | 93 |
| 42) | Cyclohexane | 7.18 | 56 | 235636 | 0.3777 | mg/kg | 79 |
| 43) | Carbtetraclo | 7.32 | 119 | 228959 | 0.5148 | mg/kg | 98 |
| 44) | 11dicloprope | 7.30 | 110 | 77432 | 0.4899 | mg/kg | 95 |
| 46) | Benzene | 7.55 | 78 | 738936 | 0.5542 | mg/kg | 95 |
| 47) | 12dichlorota | 7.55 | 62 | 248626 | 0.5065 | mg/kg | 98 |
| 48) | TAME | 7.76 | 73 | 66064 | 0.2987 | mg/kg | 90 |
| 49) | trichloroete | 8.37 | 95 | 216967 | 0.6124 | mg/kg | 96 |
| 50) | methylcyclohexane | 8.64 | 83 | 300059 | 0.5569 | mg/kg | 88 |
| 51) | 12dicloropra | 8.62 | 63 | 191997 | 0.4648 | mg/kg | 87 |
| 52) | 23dicl1propene | 8.68 | 75 | 271118 | 0.5235 | mg/kg | 96 |
| 53) | Dibromometha | 8.76 | 93 | 115441 | 0.5550 | mg/kg | 94 |
| 54) | methylmethacrylate | 8.80 | 69 | 105826 | 0.5090 | mg/kg | 91 |
| 55) | 14dioxane | 8.84 | 88 | 102376 | 25.4158 | mg/kg | 91 |
| 56) | Bromodiclrma | 8.96 | 83 | 213158 | 0.4719 | mg/kg | 98 |
| 57) | 2Nitropropane | 9.23 | 43 | 372963 | 3.4925 | mg/kg | 100 |
| 58) | c13dicloproe | 9.55 | 75 | 300775 | 0.5764 | mg/kg | 98 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 1179143 | 3.7458 | mg/kg | 96 |
| 61) | Toluene | 10.00 | 92 | 377742 | 0.4629 | mg/kg | 100 |
| 62) | t13Dicloprop | 10.25 | 75 | 206248 | 0.4541 | mg/kg | 98 |
| 63) | ethylmethacrylate | 10.42 | 69 | 298144 | 0.8643 | mg/kg | 87 |
| 64) | 112Triclotha | 10.49 | 83 | 120835 | 0.4773 | mg/kg | 98 |
| 65) | Tetrachlorte | 10.75 | 166 | 231232 | 0.6330 | mg/kg | 95 |
| 66) | 13Diclorpropa | 10.72 | 76 | 221307 | 0.4452 | mg/kg | 100 |
| 68) | 2Hexanone | 10.86 | 43 | 990947 | 4.6759 | mg/kg | 98 |
| 69) | Clorodibrmta | 11.03 | 129 | 155566 | 0.5052 | mg/kg | 96 |
| 70) | 12Dibrometha | 11.18 | 107 | 146053 | 0.5033 | mg/kg | 96 |
| 71) | Chlorobenzen | 11.88 | 112 | 429632 | 0.5045 | mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 195425 | 0.4680 | mg/kg | 88 |
| 73) | 1112Tetclota | 11.98 | 131 | 149084 | 0.5100 | mg/kg | 96 |
| 74) | Ethylbenzene | 12.04 | 91 | 738917 | 0.5245 | mg/kg | 95 |
| 75) | m p-Xylene | 12.20 | 106 | 543911 | 0.9896 | mg/kg | 96 |
| 76) | o-Xylene | 12.75 | 106 | 263600 | 0.5079 | mg/kg | 98 |
| 77) | Styrene | 12.76 | 104 | 414677 | 0.5057 | mg/kg | 96 |
| 78) | Bromoform | 12.98 | 173 | 94348 | 0.4963 | mg/kg | 98 |
| 79) | Isopropylben | 13.28 | 105 | 685056 | 0.5113 | mg/kg | 99 |
| 81) | cyclohexanone | 13.39 | 55 | 533783 | 14.5880 | mg/kg | 85 |
| 83) | Bromobenzene | 13.69 | 156 | 168737 | 0.5152 | mg/kg | 93 |
| 84) | 1122Tetrclta | 13.65 | 83 | 186761 | 0.5045 | mg/kg | 94 |
| 85) | 123Triclproa | 13.71 | 75 | 175984 | 0.4810 | mg/kg | 95 |
| 86) | 14dichloro2butene | 13.74 | 53 | 14285 | 0.4576 | mg/kg | 98 |
| 87) | n-Propylbenz | 13.86 | 91 | 849677 | 0.5255 | mg/kg | 98 |
| 88) | 2chlorotolue | 13.98 | 91 | 502687 | 0.5266 | mg/kg | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 591938 | 0.5331 | mg/kg | 98 |
| 90) | 135Trimebenz | 14.12 | 105 | 595917 | 0.5378 | mg/kg | 97 |
| 91) | tbutylbenzen | 14.59 | 119 | 480868 | 0.5142 | mg/kg | 97 |
| 92) | 124Trimetben | 14.66 | 105 | 579721 | 0.5280 | mg/kg | 99 |
| 93) | sbutylbenzen | 14.91 | 105 | 737380 | 0.5224 | mg/kg | 99 |
| 94) | 13Diclorbenz | 15.06 | 146 | 313842 | 0.5024 | mg/kg | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 622679 | 0.5236 | mg/kg | 100 |
| 96) | 14dichlorobe | 15.19 | 146 | 320399 | 0.5028 | mg/kg | 97 |
| 97) | 12dichlorobe | 15.72 | 146 | 298324 | 0.5101 | mg/kg | 99 |
| 98) | nButylbenzen | 15.72 | 91 | 618001 | 0.5300 | mg/kg | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 25269 | 0.4063 | mg/kg | 88 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 200387 | 0.4827 | mg/kg | 93 |
| 101) | 124Trichlobe | 17.94 | 180 | 174175 | 0.4952 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0825\1568828S.D Vial: 20
Acq On : 8 Apr 2025 17:29 Operator: RLD-DGS
Sample : 290598,MSDS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 17:49:40 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M

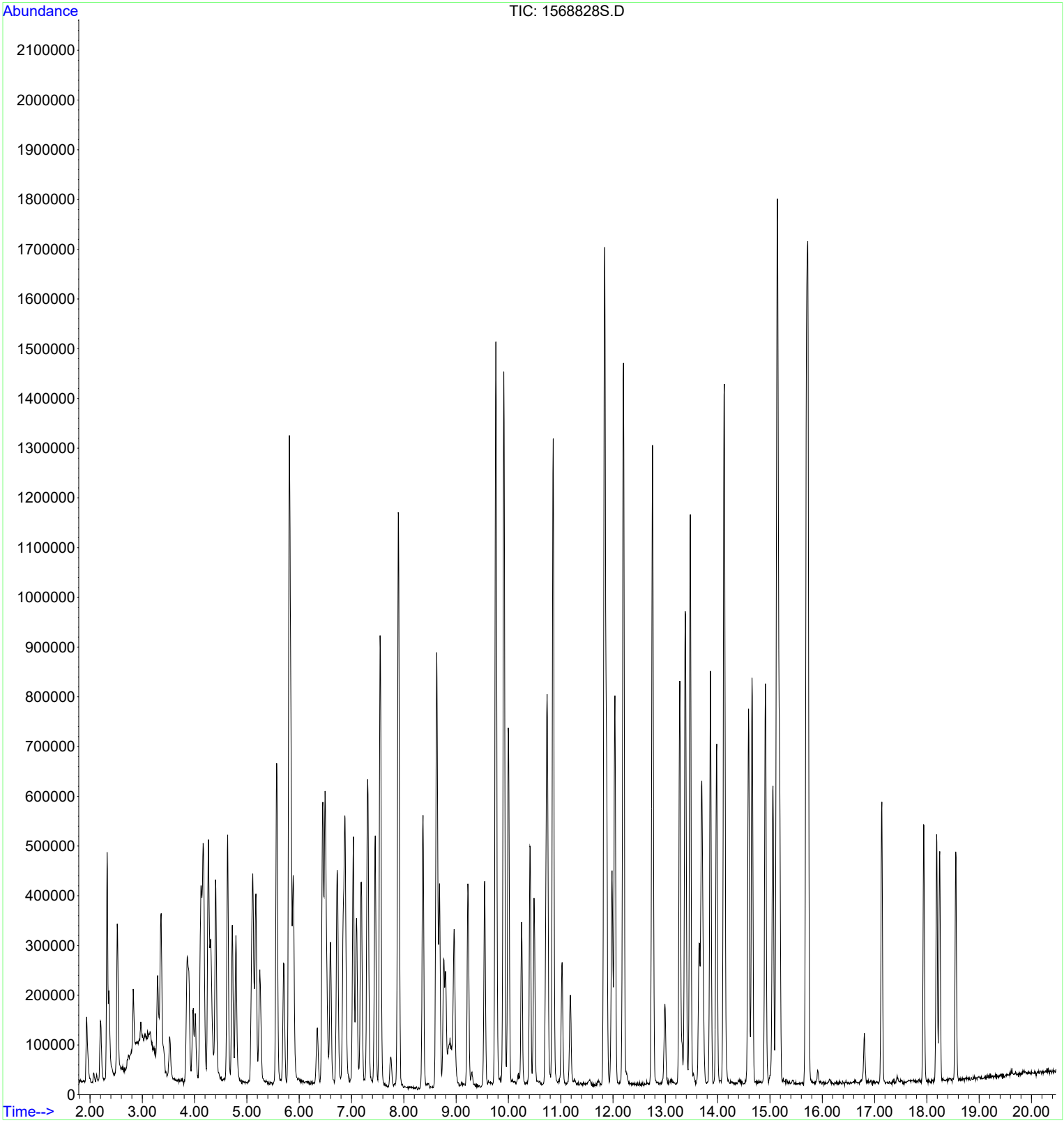
| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 18.19 | 225 | 93934 | 0.4577 | mg/kg | 97 |
| 103) Naphthalene | 18.25 | 128 | 426046 | 0.5662 | mg/kg | 95 |
| 104) 123Trichlben | 18.56 | 180 | 153864 | 0.5114 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR0825\1568828S.D Vial: 20
Acq On : 8 Apr 2025 17:29 Operator: RLD-DGS
Sample : 290598,MSDS1568828, Inst : VMS4
Misc : 1.0ml Ext/50ml, 0.50/5.00 mg/kg, 5.0 ml Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 08 17:49:40 2025 Results File: PS032525.RES

Quant Method : C:\INSTARCH\METHODS\PS032525.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Apr 08 10:16:45 2025
Response via : Initial Calibration
DataAcq Meth : PS032525.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\LCS1.D Vial: 4
Acq On : 11 Apr 2025 8:48 Operator: RLD-DGS
Sample : 290584,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 09:08:56 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1014292 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 790548 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 390728 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 266474 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 95 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 49958 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 95 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1013775 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 100 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 377649 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 138078 | 0.0089 | mg/kg | 98 |
| 3) Chloromethan | 2.20 | 50 | 143459 | 0.0087 | mg/kg | 98 |
| 4) VinylChlorid | 2.36 | 62 | 158270 | 0.0093 | mg/kg | 96 |
| 5) Bromomethane | 2.85 | 94 | 107474 | 0.0093 | mg/kg | 96 |
| 6) Chloroethane | 3.01 | 64 | 96218 | 0.0099 | mg/kg | 97 |
| 7) dichloroflmethane | 3.32 | 67 | 170621 | 0.0078 | mg/kg | 94 |
| 8) Trichlorofma | 3.42 | 101 | 191513 | 0.0089 | mg/kg | 99 |
| 9) Ethylether | 3.89 | 59 | 78740 | 0.0083 | mg/kg | 96 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 117992 | 0.0088 | mg/kg | 98 |
| 11) propyleneoxide | 4.10 | 58 | 158971 | 0.0909 | mg/kg | 96 |
| 12) Acrolein | 4.01 | 56 | 78544 | 0.0410 | mg/kg | 98 |
| 13) 11dichlorthe | 4.15 | 96 | 103705 | 0.0088 | mg/kg | 95 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 185915 | 0.0173 | mg/kg | 96 |
| 15) Acetone | 4.24 | 43 | 358781 | 0.0905 | mg/kg | 99 |
| 16) Iodomethane | 4.33 | 142 | 185323 | 0.0145 | mg/kg | 96 |
| 17) Carbon Dislf | 4.43 | 76 | 525621 | 0.0173 | mg/kg | 99 |
| 18) allylchloride | 4.64 | 41 | 289824 | 0.0164 | mg/kg | 98 |
| 19) methylacetate | 4.72 | 74 | 35437 | 0.0090 | mg/kg | 98 |
| 20) Methylchlorid | 4.80 | 84 | 117575 | 0.0081 | mg/kg | 98 |
| 21) Acrylonitrile | 5.11 | 53 | 131216 | 0.0449 | mg/kg | 99 |
| 22) t12dichlorte | 5.19 | 96 | 113552 | 0.0085 | mg/kg | 97 |
| 23) tbutylalcohol | 5.05 | 59 | 290713 | 0.4361 | mg/kg | 97 |
| 24) MtBE | 5.25 | 73 | 169747 | 0.0089 | mg/kg | 98 |
| 25) Hexane | 5.59 | 57 | 266331 | 0.0173 | mg/kg | 98 |
| 26) 11dichlorota | 5.71 | 63 | 201780 | 0.0086 | mg/kg | 99 |
| 27) Vinylacetate | 5.81 | 43 | 1657480 | 0.0786 | mg/kg | 96 |
| 28) chloroprene | 5.85 | 53 | 319693 | 0.0169 | mg/kg | 99 |
| 29) Diisopether | 5.88 | 45 | 327553 | 0.0087 | mg/kg# | 99 |
| 30) ETBE | 6.34 | 59 | 56335 | 0.0101 | mg/kg | 96 |
| 31) 22dichloropr | 6.46 | 77 | 137433 | 0.0083 | mg/kg | 97 |
| 32) c12dichlorte | 6.45 | 96 | 124094 | 0.0086 | mg/kg | 97 |
| 33) 2Butanone | 6.49 | 72 | 114124 | 0.0942 | mg/kg | 98 |
| 34) propionitrile | 6.51 | 54 | 109577 | 0.0895 | mg/kg | 98 |
| 35) Ethylacetate | 6.59 | 88 | 10221 | 0.0449 | mg/kg# | 86 |
| 36) methacrylonitrile | 6.72 | 67 | 71849 | 0.0185 | mg/kg | 94 |
| 37) Bromochlorma | 6.74 | 128 | 55545 | 0.0085 | mg/kg | 99 |
| 38) Tetrahydofur | 6.87 | 42 | 236724 | 0.0890 | mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\LCS1.D Vial: 4
Acq On : 11 Apr 2025 8:48 Operator: RLD-DGS
Sample : 290584,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 09:08:56 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 213242 | 0.0086 | mg/kg | 99 |
| 40) | 111trichlota | 7.10 | 97 | 186977 | 0.0085 | mg/kg | 98 |
| 42) | Cyclohexane | 7.19 | 56 | 170904 | 0.0090 | mg/kg | 98 |
| 43) | Carbtetraclo | 7.32 | 119 | 160534 | 0.0084 | mg/kg | 99 |
| 44) | 11dicloprope | 7.31 | 110 | 53072 | 0.0083 | mg/kg | 98 |
| 46) | Benzene | 7.56 | 78 | 441741 | 0.0086 | mg/kg | 98 |
| 47) | 12dichlorota | 7.55 | 62 | 149034 | 0.0085 | mg/kg | 98 |
| 48) | TAME | 7.75 | 73 | 24537 | 0.0113 | mg/kg | 91 |
| 49) | trichloroete | 8.37 | 95 | 120373 | 0.0085 | mg/kg | 95 |
| 50) | methylcyclohexane | 8.64 | 83 | 184605 | 0.0088 | mg/kg | 99 |
| 51) | 12dicloropra | 8.62 | 63 | 117475 | 0.0087 | mg/kg | 96 |
| 52) | 23dicl1propene | 8.68 | 75 | 177248 | 0.0084 | mg/kg | 100 |
| 53) | Dibromometha | 8.76 | 93 | 68059 | 0.0085 | mg/kg | 96 |
| 54) | methylmethacrylate | 8.80 | 69 | 64269 | 0.0090 | mg/kg | 97 |
| 55) | 14dioxane | 8.84 | 88 | 47652 | 0.4510 | mg/kg | 97 |
| 56) | Bromodiclrma | 8.96 | 83 | 163891 | 0.0085 | mg/kg | 98 |
| 57) | 2Nitropropane | 9.23 | 43 | 274989 | 0.0857 | mg/kg | 95 |
| 58) | c13dicloproe | 9.55 | 75 | 179188 | 0.0084 | mg/kg | 99 |
| 59) | 4Meth2Pentan | 9.76 | 43 | 830844 | 0.0913 | mg/kg | 98 |
| 61) | Toluene | 10.00 | 92 | 281121 | 0.0084 | mg/kg | 97 |
| 62) | t13Dicloprop | 10.26 | 75 | 152625 | 0.0087 | mg/kg | 96 |
| 63) | ethylmethacrylate | 10.41 | 69 | 243933 | 0.0177 | mg/kg | 98 |
| 64) | 112Triclotha | 10.49 | 83 | 80865 | 0.0087 | mg/kg | 98 |
| 65) | Tetrachlorte | 10.75 | 166 | 119614 | 0.0081 | mg/kg | 98 |
| 66) | 13Diclorpropa | 10.72 | 76 | 156877 | 0.0087 | mg/kg | 98 |
| 68) | 2Hexanone | 10.85 | 43 | 610085 | 0.0969 | mg/kg | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 113578 | 0.0088 | mg/kg | 100 |
| 70) | 12Dibrometha | 11.18 | 107 | 99549 | 0.0092 | mg/kg | 99 |
| 71) | Chlorobenzen | 11.88 | 112 | 316827 | 0.0090 | mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 153578 | 0.0089 | mg/kg | 98 |
| 73) | 1112Tetclota | 11.98 | 131 | 114836 | 0.0088 | mg/kg | 99 |
| 74) | Ethylbenzene | 12.04 | 91 | 543281 | 0.0089 | mg/kg | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 408851 | 0.0177 | mg/kg | 98 |
| 76) | o-Xylene | 12.75 | 106 | 204088 | 0.0090 | mg/kg | 100 |
| 77) | Styrene | 12.76 | 104 | 337934 | 0.0091 | mg/kg | 98 |
| 78) | Bromoform | 12.99 | 173 | 68794 | 0.0089 | mg/kg | 97 |
| 79) | Isopropylben | 13.28 | 105 | 529147 | 0.0091 | mg/kg | 99 |
| 81) | cyclohexanone | 13.38 | 55 | 199632 | 0.2065 | mg/kg | 98 |
| 83) | Bromobenzene | 13.69 | 156 | 139172 | 0.0094 | mg/kg | 98 |
| 84) | 1122Tetrclta | 13.65 | 83 | 121794 | 0.0098 | mg/kg | 98 |
| 85) | 123Triclproa | 13.71 | 75 | 120903 | 0.0099 | mg/kg | 97 |
| 86) | 14dichloro2butene | 13.87 | 53 | 2679 | 0.0061 | mg/kg# | 78 |
| 87) | n-Propylbenz | 13.86 | 91 | 625837 | 0.0095 | mg/kg | 100 |
| 88) | 2chlorotolue | 13.98 | 91 | 369026 | 0.0093 | mg/kg | 100 |
| 89) | 4chlorotolue | 14.13 | 91 | 435157 | 0.0093 | mg/kg | 98 |
| 90) | 135Trimebenz | 14.12 | 105 | 443475 | 0.0094 | mg/kg | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 374866 | 0.0091 | mg/kg | 98 |
| 92) | 124Trimetben | 14.66 | 105 | 446519 | 0.0095 | mg/kg | 97 |
| 93) | sbutylbenzen | 14.91 | 105 | 547623 | 0.0095 | mg/kg | 100 |
| 94) | 13Diclorbenz | 15.05 | 146 | 239000 | 0.0093 | mg/kg | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 468851 | 0.0093 | mg/kg | 99 |
| 96) | 14dichlorobe | 15.19 | 146 | 247684 | 0.0095 | mg/kg | 99 |
| 97) | 12dichlorobe | 15.73 | 146 | 222759 | 0.0094 | mg/kg | 99 |
| 98) | nButylbenzen | 15.72 | 91 | 428106 | 0.0093 | mg/kg | 100 |
| 99) | 12dibromo3cl | 16.81 | 157 | 20230 | 0.0088 | mg/kg | 94 |
| 100) | 135Trichlorobenzene | 17.13 | 180 | 176603 | 0.0092 | mg/kg | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 156438 | 0.0093 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR1125\LCS1.D Vial: 4
Acq On : 11 Apr 2025 8:48 Operator: RLD-DGS
Sample : 290584,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 09:08:56 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 92185 | 0.0087 | mg/kg | 99 |
| 103) | Naphthalene | 18.24 | 128 | 289852 | 0.0100 | mg/kg | 97 |
| 104) | 123Trichlben | 18.55 | 180 | 138510 | 0.0093 | mg/kg | 99 |

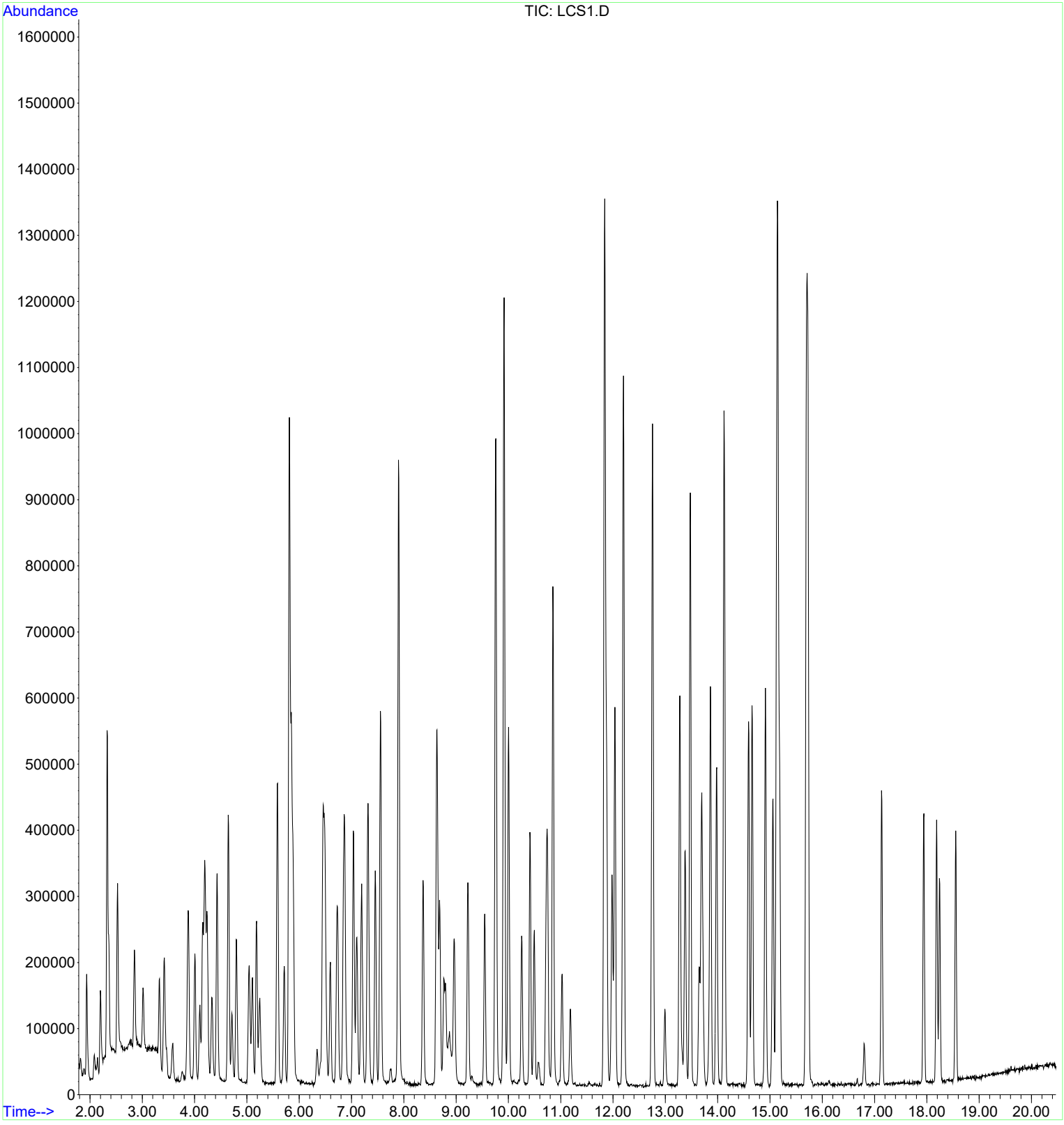
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\LCS1.D Vial: 4
Acq On : 11 Apr 2025 8:48 Operator: RLD-DGS
Sample : 290584,LCSS, Inst : VMS4
Misc : 5.00g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 09:08:56 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\MB1.D Vial: 6
Acq On : 11 Apr 2025 9:46 Operator: RLD-DGS
Sample : 290584,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 10:20:20 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1051162 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 791887 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 388194 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 272608 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 95 % | | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 52426 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 100 % | | | |
| 60) SURRd8Tolule | 9.91 | 98 | 1026777 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 377625 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 100 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 2512 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 3727 | N.D. | | |
| 4) VinylChlorid | 2.35 | 62 | 1586 | N.D. | | |
| 5) Bromomethane | 2.86 | 94 | 2032 | N.D. | | |
| 6) Chloroethane | 3.00 | 64 | 14584 | 0.0015 | mg/kg# | 42 |
| 7) dichloroflmethane | 3.28 | 67 | 4106 | N.D. | | |
| 8) Trichlorofma | 3.42 | 101 | 1889 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 4.11 | 58 | 3855 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.24 | 43 | 21698 | N.D. | | |
| 16) Iodomethane | 4.35 | 142 | 3114 | N.D. | | |
| 17) Carbon Dislf | 4.44 | 76 | 3147 | N.D. | | |
| 18) allylchloride | 0.00 | 41 | 0 | N.D. | | |
| 19) methylacetate | 0.00 | 74 | 0 | N.D. | | |
| 20) Methylchlorid | 4.80 | 84 | 6072 | Below | Cal # | 78 |
| 21) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 22) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 23) tbutylalcohol | 5.03 | 59 | 2258 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 5.59 | 57 | 2114 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 5.81 | 43 | 2060 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 6.41 | 77 | 1231 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 6.88 | 42 | 2683 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\MB1.D Vial: 6
Acq On : 11 Apr 2025 9:46 Operator: RLD-DGS
Sample : 290584,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 10:20:20 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 1760 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 7.55 | 78 | 3219 | N.D. | |
| 47) | 12dichlorota | 7.56 | 62 | 1617 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 9.23 | 43 | 2505 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 9.75 | 43 | 3848 | N.D. | |
| 61) | Toluene | 10.00 | 92 | 1997 | N.D. | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) | 112Triclotha | 10.58 | 83 | 1436 | N.D. | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 10.86 | 43 | 6254 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 11.84 | 91 | 2878 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 12.04 | 91 | 3671 | N.D. | |
| 75) | m p-Xylene | 12.19 | 106 | 2725 | N.D. | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | |
| 77) | Styrene | 12.76 | 104 | 2412 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 13.28 | 105 | 2351 | N.D. | |
| 81) | cyclohexanone | 13.37 | 55 | 2219 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 13.87 | 91 | 4071 | N.D. | |
| 88) | 2chlorotolue | 13.99 | 91 | 2234 | N.D. | |
| 89) | 4chlorotolue | 14.12 | 91 | 2827 | N.D. | |
| 90) | 135Trimebenz | 14.13 | 105 | 2705 | N.D. | |
| 91) | tbutylbenzen | 14.60 | 119 | 2366 | N.D. | |
| 92) | 124Trimetben | 14.66 | 105 | 3250 | N.D. | |
| 93) | sbutylbenzen | 14.91 | 105 | 3128 | N.D. | |
| 94) | 13Diclorbenz | 15.06 | 146 | 1639 | N.D. | |
| 95) | pIsopropylto | 15.13 | 119 | 3634 | N.D. | |
| 96) | 14dichlorobe | 15.17 | 146 | 1711 | N.D. | |
| 97) | 12dichlorobe | 15.70 | 146 | 2286 | N.D. | |
| 98) | nButylbenzen | 15.73 | 91 | 4642 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 17.94 | 180 | 2014 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\MB1.D Vial: 6
Acq On : 11 Apr 2025 9:46 Operator: RLD-DGS
Sample : 290584,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 10:20:20 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | |
| 103) Naphthalene | 18.24 | 128 | 9714 | N.D. | |
| 104) 123Trichlben | 18.55 | 180 | 2199 | N.D. | |

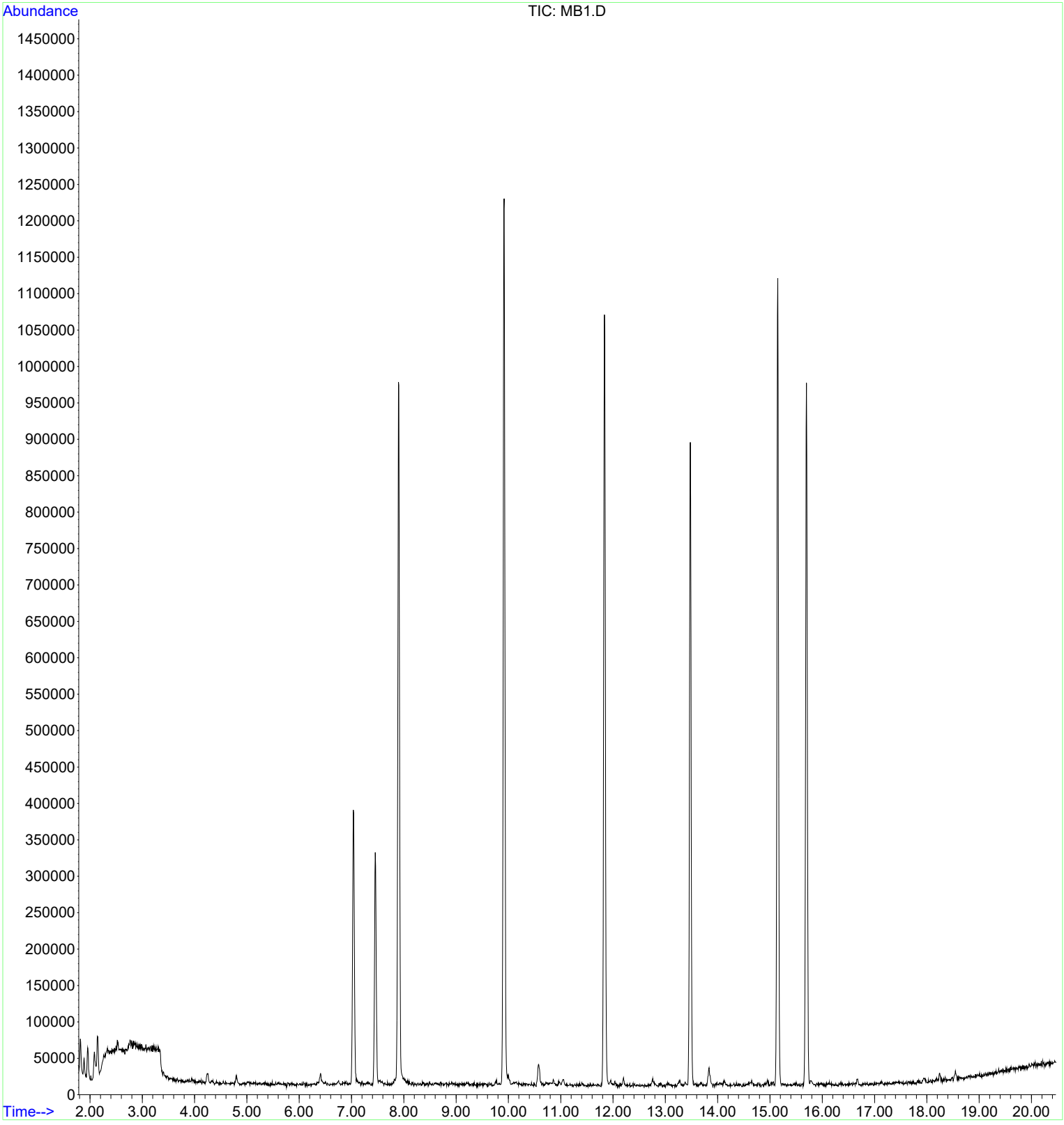
(#) = qualifier out of range (m) = manual integration

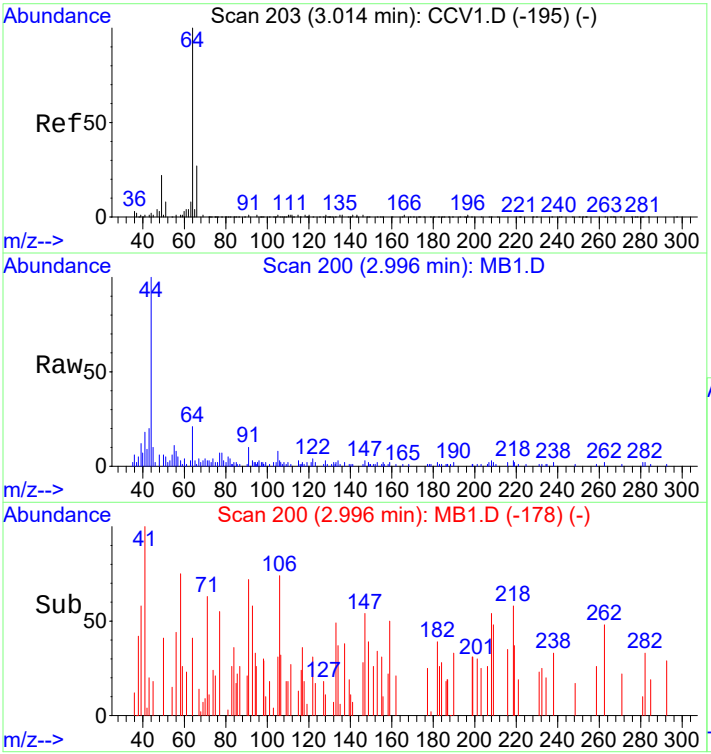
Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\MB1.D  Vial: 6
Acq On : 11 Apr 2025 9:46  Operator: RLD-DGS
Sample : 290584,MBS,  Inst : VMS4
Misc : 5.00g, 15.0 ml DI H2O Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 10:20:20 2025  Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

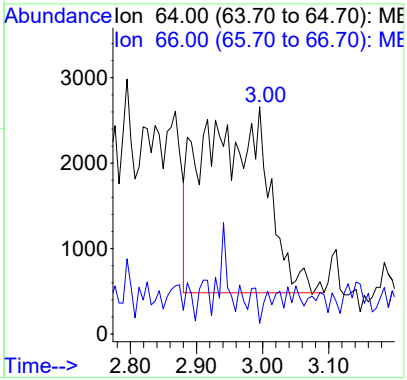





#6
Chloroethane
Concen: 0.00 mg/kg
RT: 3.00 min Scan# 200
Delta R.T. -0.02 min
Lab File: MB1.D
Acq: 11 Apr 2025 9:46

Tgt Ion: 64 Resp: 14584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 13.1 | 53.1# |




Negative Library Identification

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568828M.D Vial: 15
Acq On : 11 Apr 2025 14:35 Operator: RLD-DGS
Sample : 290584,MSS1568828,, Inst : VMS4
Misc : 4.46g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 14:56:10 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 796178 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 567532 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 226858 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 220441 | 0.021 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 105 % | | | |
| 45) SURR12DCAd4 | 7.46 | 102 | 45890 | 0.023 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 115 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 767200 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 259430 | 0.024 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 120 %# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 136467 | 0.0111 | mg/kg | 99 |
| 3) Chloromethan | 2.20 | 50 | 137781 | 0.0106 | mg/kg | 99 |
| 4) VinylChlorid | 2.36 | 62 | 156946 | 0.0118 | mg/kg | 94 |
| 5) Bromomethane | 2.85 | 94 | 97253 | 0.0107 | mg/kg | 98 |
| 6) Chloroethane | 3.01 | 64 | 95710 | 0.0126 | mg/kg | 99 |
| 7) dichloroflmethane | 3.32 | 67 | 177609 | 0.0103 | mg/kg | 98 |
| 8) Trichlorofma | 3.42 | 101 | 183522 | 0.0109 | mg/kg | 99 |
| 9) Ethylether | 3.88 | 59 | 84294 | 0.0113 | mg/kg | 97 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 118506 | 0.0113 | mg/kg | 95 |
| 11) propyleneoxide | 4.10 | 58 | 120811 | 0.0880 | mg/kg | 97 |
| 12) Acrolein | 4.01 | 56 | 97736 | 0.0650 | mg/kg# | 85 |
| 13) 11dichlorthe | 4.15 | 96 | 102820 | 0.0111 | mg/kg | 94 |
| 14) Trichlorotfluoroeth | 4.20 | 101 | 195284 | 0.0231 | mg/kg | 99 |
| 15) Acetone | 4.24 | 43 | 893933 | 0.2874 | mg/kg | 97 |
| 16) Iodomethane | 4.33 | 142 | 155665 | 0.0155 | mg/kg | 98 |
| 17) Carbon Dislf | 4.43 | 76 | 642858 | 0.0270 | mg/kg | 99 |
| 18) allylchloride | 4.64 | 41 | 271617 | 0.0195 | mg/kg | 96 |
| 19) methylacetate | 4.72 | 74 | 68479 | 0.0222 | mg/kg | 98 |
| 20) Methylchlorid | 4.80 | 84 | 118079 | 0.0106 | mg/kg | 99 |
| 21) Acrylonitrile | 5.11 | 53 | 168744 | 0.0735 | mg/kg | 99 |
| 22) t12dichlorte | 5.19 | 96 | 108381 | 0.0103 | mg/kg | 97 |
| 23) tbutylalcohol | 5.04 | 59 | 505038 | 0.9651 | mg/kg | 98 |
| 24) MtBE | 5.25 | 73 | 157582 | 0.0106 | mg/kg | 96 |
| 25) Hexane | 5.58 | 57 | 300012 | 0.0248 | mg/kg | 97 |
| 26) 11dichlorota | 5.71 | 63 | 186238 | 0.0101 | mg/kg | 99 |
| 27) Vinylacetate | 5.81 | 43 | 2135203 | 0.1290 | mg/kg | 98 |
| 28) chloroprene | 5.85 | 53 | 300550 | 0.0202 | mg/kg | 98 |
| 29) Diisopether | 5.89 | 45 | 301952 | 0.0102 | mg/kg# | 99 |
| 30) ETBE | 6.34 | 59 | 40748 | 0.0094 | mg/kg | 96 |
| 31) 22dichloropr | 6.46 | 77 | 135834 | 0.0104 | mg/kg | 98 |
| 32) c12dichlorte | 6.46 | 96 | 129448 | 0.0114 | mg/kg | 97 |
| 33) 2Butanone | 6.49 | 72 | 148936 | 0.1566 | mg/kg | 100 |
| 34) propionitrile | 6.51 | 54 | 151884 | 0.1580 | mg/kg | 97 |
| 35) Ethylacetate | 6.60 | 88 | 12878 | 0.0721 | mg/kg# | 94 |
| 36) methacrylonitrile | 6.72 | 67 | 82446 | 0.0271 | mg/kg | 96 |
| 37) Bromochlorma | 6.74 | 128 | 54488 | 0.0106 | mg/kg | 97 |
| 38) Tetrahydofur | 6.86 | 42 | 318298 | 0.1524 | mg/kg | 96 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568828M.D Vial: 15
Acq On : 11 Apr 2025 14:35 Operator: RLD-DGS
Sample : 290584,MSS1568828,, Inst : VMS4
Misc : 4.46g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 14:56:10 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|
| 39) Chloroform | 6.85 | 83 | 187059 | 0.0096 mg/kg | 97 |
| 40) 111trichlota | 7.10 | 97 | 172926 | 0.0100 mg/kg | 98 |
| 42) Cyclohexane | 7.19 | 56 | 171285 | 0.0114 mg/kg | 96 |
| 43) Carbtetraclo | 7.32 | 119 | 149532 | 0.0100 mg/kg | 98 |
| 44) 11dicloprope | 7.31 | 110 | 49990 | 0.0099 mg/kg | 94 |
| 46) Benzene | 7.55 | 78 | 417897 | 0.0104 mg/kg | 98 |
| 47) 12dichlorota | 7.55 | 62 | 141405 | 0.0102 mg/kg | 97 |
| 48) TAME | 7.75 | 73 | 19421 | 0.0114 mg/kg# | 57 |
| 49) trichloroete | 8.37 | 95 | 195240 | 0.0175 mg/kg | 97 |
| 50) methylcyclohexane | 8.64 | 83 | 185396 | 0.0113 mg/kg | 93 |
| 51) 12dicloropra | 8.62 | 63 | 111114 | 0.0105 mg/kg | 96 |
| 52) 23dicl1propene | 8.68 | 75 | 159469 | 0.0096 mg/kg | 97 |
| 53) Dibromometha | 8.76 | 93 | 67540 | 0.0107 mg/kg | 99 |
| 54) methylmethacrylate | 8.80 | 69 | 75925 | 0.0136 mg/kg | 100 |
| 55) 14dioxane | 8.84 | 88 | 114134 | 1.3763 mg/kg | 89 |
| 56) Bromodiclrma | 8.96 | 83 | 141916 | 0.0093 mg/kg | 99 |
| 57) 2Nitropropane | 9.23 | 43 | 335547 | 0.1332 mg/kg | 98 |
| 58) c13dicloproe | 9.55 | 75 | 162147 | 0.0097 mg/kg | 97 |
| 59) 4Meth2Pentan | 9.75 | 43 | 1081646 | 0.1514 mg/kg | 97 |
| 61) Toluene | 10.00 | 92 | 278706 | 0.0105 mg/kg | 96 |
| 62) t13Dicloprop | 10.25 | 75 | 134180 | 0.0097 mg/kg | 97 |
| 63) ethylmethacrylate | 10.42 | 69 | 248517 | 0.0230 mg/kg | 96 |
| 64) 112Triclotha | 10.49 | 83 | 77104 | 0.0106 mg/kg | 96 |
| 65) Tetrachlorte | 10.75 | 166 | 358367 | 0.0309 mg/kg | 98 |
| 66) 13Diclorpropa | 10.72 | 76 | 151175 | 0.0107 mg/kg | 100 |
| 68) 2Hexanone | 10.85 | 43 | 750547 | 0.1661 mg/kg | 99 |
| 69) Clorodibrmta | 11.03 | 129 | 104099 | 0.0112 mg/kg | 97 |
| 70) 12Dibrometha | 11.18 | 107 | 98098 | 0.0126 mg/kg | 95 |
| 71) Chlorobenzen | 11.88 | 112 | 275213 | 0.0109 mg/kg | 98 |
| 72) 1Clhexane | 11.85 | 91 | 140390 | 0.0113 mg/kg | 98 |
| 73) 1112Tetclota | 11.98 | 131 | 96585 | 0.0103 mg/kg | 99 |
| 74) Ethylbenzene | 12.04 | 91 | 496705 | 0.0113 mg/kg | 100 |
| 75) m p-Xylene | 12.20 | 106 | 384226 | 0.0232 mg/kg | 97 |
| 76) o-Xylene | 12.75 | 106 | 176489 | 0.0109 mg/kg | 99 |
| 77) Styrene | 12.76 | 104 | 265531 | 0.0099 mg/kg | 100 |
| 78) Bromoform | 12.99 | 173 | 64930 | 0.0117 mg/kg | 99 |
| 79) Isopropylben | 13.28 | 105 | 467709 | 0.0112 mg/kg | 99 |
| 81) cyclohexanone | 13.38 | 55 | 100506 | 0.1791 mg/kg | 99 |
| 83) Bromobenzene | 13.70 | 156 | 109510 | 0.0127 mg/kg | 92 |
| 84) 1122Tetrclta | 13.65 | 83 | 119936 | 0.0167 mg/kg | 94 |
| 85) 123Triclproa | 13.71 | 75 | 122713 | 0.0173 mg/kg | 98 |
| 86) 14dichloro2butene | 13.86 | 53 | 2765 | 0.0124 mg/kg# | 96 |
| 87) n-Propylbenz | 13.86 | 91 | 544182 | 0.0143 mg/kg | 99 |
| 88) 2chlorotolue | 13.98 | 91 | 305381 | 0.0133 mg/kg | 100 |
| 89) 4chlorotolue | 14.13 | 91 | 350932 | 0.0130 mg/kg | 98 |
| 90) 135Trimebenz | 14.12 | 105 | 372866 | 0.0136 mg/kg | 100 |
| 91) tbutylbenzen | 14.59 | 119 | 319760 | 0.0133 mg/kg | 99 |
| 92) 124Trimetben | 14.66 | 105 | 392818 | 0.0143 mg/kg | 95 |
| 93) sbutylbenzen | 14.91 | 105 | 469681 | 0.0140 mg/kg | 99 |
| 94) 13Diclorbenz | 15.06 | 146 | 179963 | 0.0120 mg/kg | 98 |
| 95) pIsopropylto | 15.13 | 119 | 405499 | 0.0139 mg/kg | 99 |
| 96) 14dichlorobe | 15.19 | 146 | 181586 | 0.0120 mg/kg | 99 |
| 97) 12dichlorobe | 15.73 | 146 | 160746 | 0.0117 mg/kg | 97 |
| 98) nButylbenzen | 15.73 | 91 | 357180 | 0.0134 mg/kg | 99 |
| 99) 12dibromo3cl | 16.81 | 157 | 21542 | 0.0162 mg/kg | 93 |
| 100) 135Trichlorobenzene | 17.14 | 180 | 110768 | 0.0100 mg/kg | 99 |
| 101) 124Trichlobe | 17.94 | 180 | 82496 | 0.0085 mg/kg | 100 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568828M.D Vial: 15
Acq On : 11 Apr 2025 14:35 Operator: RLD-DGS
Sample : 290584,MSS1568828,, Inst : VMS4
Misc : 4.46g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 14:56:10 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 69289 | 0.0113 | mg/kg | 97 |
| 103) | Naphthalene | 18.24 | 128 | 148635 | 0.0088 | mg/kg | 100 |
| 104) | 123Trichlben | 18.56 | 180 | 66419 | 0.0077 | mg/kg | 99 |

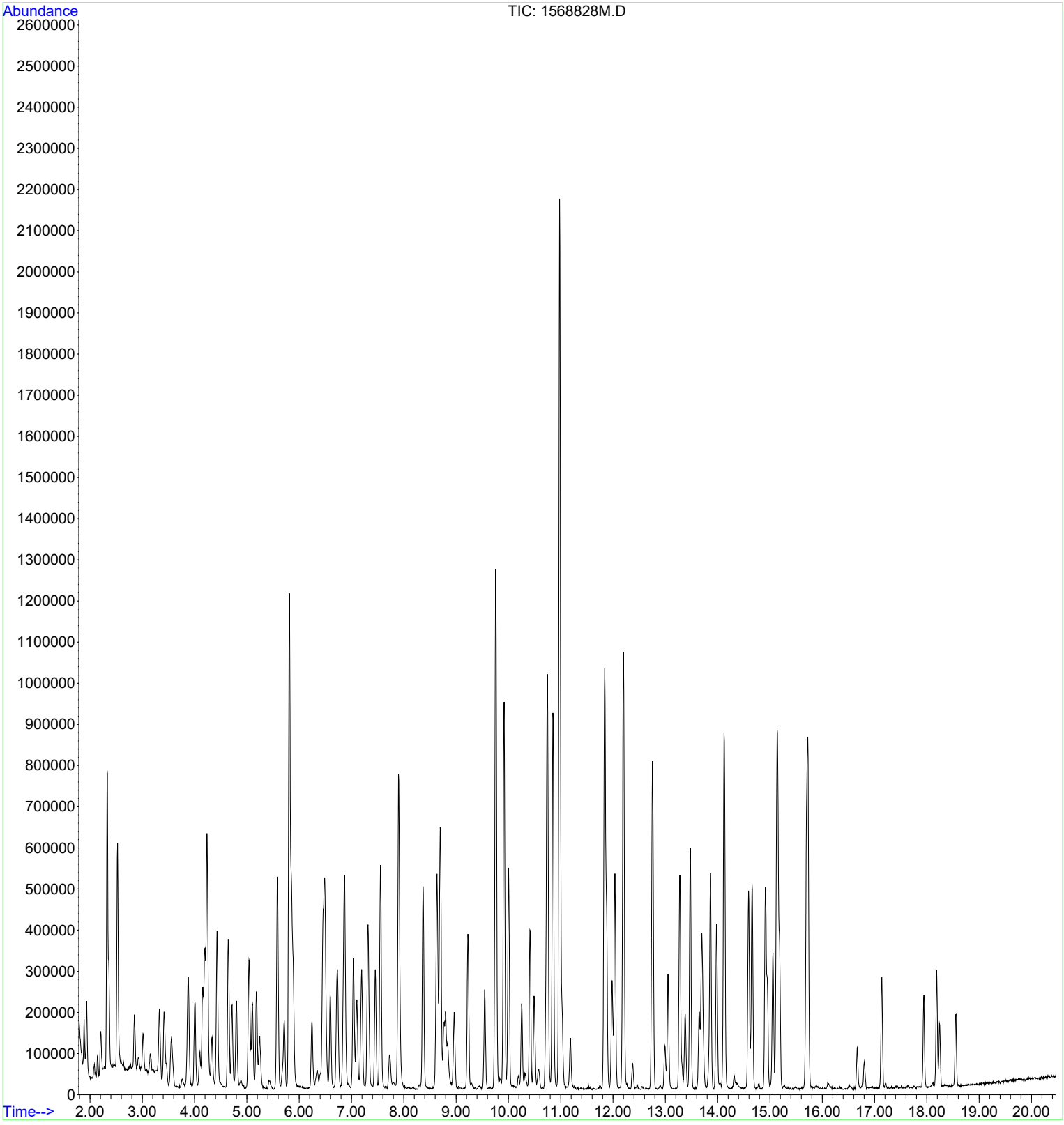
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568828M.D Vial: 15
Acq On : 11 Apr 2025 14:35 Operator: RLD-DGS
Sample : 290584,MSS1568828,, Inst : VMS4
Misc : 4.46g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 14:56:10 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568828S.D Vial: 16
Acq On : 11 Apr 2025 15:04 Operator: RLD-DGS
Sample : 290584,MSDS1568828,, Inst : VMS4
Misc : 5.07g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 15:25:21 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1054912 | 0.02 | mg/kg | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 765632 | 0.02 | mg/kg | 0.00 NA% |
| 80) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 295732 | 0.02 | mg/kg | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 278652 | 0.020 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 78 - 119 | | Recovery = 100 % | | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 57273 | 0.021 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 71 - 136 | | Recovery = 105 % | | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1030908 | 0.019 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 85 - 116 | | Recovery = 95 % | | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 334677 | 0.023 | mg/kg | 0.00 |
| Spiked Amount 0.020 | Range 79 - 119 | | Recovery = 115 % | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 181911 | 0.0112 | mg/kg | 99 |
| 3) Chloromethan | 2.20 | 50 | 184460 | 0.0107 | mg/kg | 99 |
| 4) VinylChlorid | 2.36 | 62 | 209608 | 0.0119 | mg/kg | 99 |
| 5) Bromomethane | 2.85 | 94 | 121457 | 0.0101 | mg/kg | 96 |
| 6) Chloroethane | 3.02 | 64 | 119032 | 0.0118 | mg/kg | 99 |
| 7) dichloroflmethane | 3.33 | 67 | 232228 | 0.0102 | mg/kg | 97 |
| 8) Trichlorofma | 3.42 | 101 | 240996 | 0.0108 | mg/kg | 98 |
| 9) Ethylether | 3.88 | 59 | 110810 | 0.0112 | mg/kg | 98 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 149040 | 0.0107 | mg/kg | 98 |
| 11) propyleneoxide | 4.10 | 58 | 130510 | 0.0718 | mg/kg | 95 |
| 12) Acrolein | 4.01 | 56 | 102361 | 0.0514 | mg/kg | 95 |
| 13) 11dichlorthe | 4.16 | 96 | 135371 | 0.0110 | mg/kg | 96 |
| 14) Trichlorotfluoroeth | 4.20 | 101 | 259693 | 0.0232 | mg/kg | 99 |
| 15) Acetone | 4.24 | 43 | 946298 | 0.2296 | mg/kg | 98 |
| 16) Iodomethane | 4.33 | 142 | 235125 | 0.0177 | mg/kg | 96 |
| 17) Carbon Dislf | 4.43 | 76 | 797726 | 0.0253 | mg/kg | 99 |
| 18) allylchloride | 4.64 | 41 | 364928 | 0.0198 | mg/kg | 95 |
| 19) methylacetate | 4.71 | 74 | 61027 | 0.0149 | mg/kg | 95 |
| 20) Methylchlorid | 4.80 | 84 | 157360 | 0.0107 | mg/kg | 99 |
| 21) Acrylonitrile | 5.10 | 53 | 195142 | 0.0642 | mg/kg | 98 |
| 22) t12dichlorte | 5.19 | 96 | 145951 | 0.0105 | mg/kg | 96 |
| 23) tbutylalcohol | 5.04 | 59 | 714646 | 1.0307 | mg/kg | 99 |
| 24) MtBE | 5.25 | 73 | 224452 | 0.0114 | mg/kg | 95 |
| 25) Hexane | 5.59 | 57 | 411169 | 0.0257 | mg/kg | 100 |
| 26) 11dichlorota | 5.71 | 63 | 250325 | 0.0102 | mg/kg | 98 |
| 27) Vinylacetate | 5.81 | 43 | 2699101 | 0.1231 | mg/kg | 99 |
| 28) chloroprene | 5.85 | 53 | 403295 | 0.0205 | mg/kg | 98 |
| 29) Diisopether | 5.88 | 45 | 408671 | 0.0104 | mg/kg# | 100 |
| 30) ETBE | 6.35 | 59 | 66978 | 0.0114 | mg/kg | 96 |
| 31) 22dichloropr | 6.46 | 77 | 191286 | 0.0111 | mg/kg | 96 |
| 32) c12dichlorte | 6.45 | 96 | 240781 | 0.0160 | mg/kg | 93 |
| 33) 2Butanone | 6.49 | 72 | 183038 | 0.1453 | mg/kg | 100 |
| 34) propionitrile | 6.51 | 54 | 186701 | 0.1466 | mg/kg | 95 |
| 35) Ethylacetate | 6.60 | 88 | 15688 | 0.0663 | mg/kg# | 89 |
| 36) methacrylonitrile | 6.71 | 67 | 101505 | 0.0251 | mg/kg | 96 |
| 37) Bromochlorma | 6.74 | 128 | 68917 | 0.0102 | mg/kg | 95 |
| 38) Tetrahydofur | 6.86 | 42 | 396235 | 0.1432 | mg/kg | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568828S.D Vial: 16
Acq On : 11 Apr 2025 15:04 Operator: RLD-DGS
Sample : 290584,MSDS1568828,, Inst : VMS4
Misc : 5.07g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 15:25:21 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 262086 | 0.0102 | mg/kg | 98 |
| 40) | 111trichlota | 7.10 | 97 | 230183 | 0.0101 | mg/kg | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 228206 | 0.0115 | mg/kg | 98 |
| 43) | Carbtetraclo | 7.33 | 119 | 203002 | 0.0103 | mg/kg | 99 |
| 44) | 11dicloprope | 7.31 | 110 | 72039 | 0.0108 | mg/kg | 94 |
| 46) | Benzene | 7.56 | 78 | 572754 | 0.0107 | mg/kg | 97 |
| 47) | 12dichlorota | 7.55 | 62 | 188675 | 0.0103 | mg/kg | 99 |
| 48) | TAME | 7.75 | 73 | 29068 | 0.0127 | mg/kg | 83 |
| 49) | trichloroete | 8.37 | 95 | 355146 | 0.0240 | mg/kg | 99 |
| 50) | methylcyclohexane | 8.64 | 83 | 253740 | 0.0116 | mg/kg | 95 |
| 51) | 12dicloropra | 8.63 | 63 | 148735 | 0.0106 | mg/kg | 94 |
| 52) | 23dicl1propene | 8.69 | 75 | 219611 | 0.0100 | mg/kg | 99 |
| 53) | Dibromometha | 8.76 | 93 | 90320 | 0.0108 | mg/kg | 98 |
| 54) | methylmethacrylate | 8.80 | 69 | 94294 | 0.0128 | mg/kg | 99 |
| 55) | 14dioxane | 8.84 | 88 | 187066 | 1.7025 | mg/kg | 90 |
| 56) | Bromodiclrma | 8.96 | 83 | 194697 | 0.0097 | mg/kg | 97 |
| 57) | 2Nitropropane | 9.23 | 43 | 415240 | 0.1244 | mg/kg | 99 |
| 58) | c13dicloproe | 9.55 | 75 | 222671 | 0.0101 | mg/kg | 99 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 1361154 | 0.1438 | mg/kg | 97 |
| 61) | Toluene | 10.00 | 92 | 392006 | 0.0112 | mg/kg | 97 |
| 62) | t13Dicloprop | 10.25 | 75 | 183646 | 0.0101 | mg/kg | 96 |
| 63) | ethylmethacrylate | 10.41 | 69 | 331110 | 0.0231 | mg/kg | 96 |
| 64) | 112Triclotha | 10.49 | 83 | 104593 | 0.0108 | mg/kg | 96 |
| 65) | Tetrachlorte | 10.75 | 166 | 709275 | 0.0461 | mg/kg | 98 |
| 66) | 13Diclorpropa | 10.72 | 76 | 203549 | 0.0108 | mg/kg | 98 |
| 68) | 2Hexanone | 10.85 | 43 | 946508 | 0.1553 | mg/kg | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 141971 | 0.0113 | mg/kg | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 129584 | 0.0124 | mg/kg | 98 |
| 71) | Chlorobenzen | 11.88 | 112 | 368844 | 0.0108 | mg/kg | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 192536 | 0.0115 | mg/kg | 98 |
| 73) | 1112Tetclota | 11.98 | 131 | 138768 | 0.0109 | mg/kg | 97 |
| 74) | Ethylbenzene | 12.04 | 91 | 669789 | 0.0113 | mg/kg | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 517614 | 0.0232 | mg/kg | 98 |
| 76) | o-Xylene | 12.75 | 106 | 245631 | 0.0112 | mg/kg | 97 |
| 77) | Styrene | 12.76 | 104 | 340464 | 0.0094 | mg/kg | 100 |
| 78) | Bromoform | 13.00 | 173 | 85184 | 0.0114 | mg/kg | 99 |
| 79) | Isopropylben | 13.28 | 105 | 642050 | 0.0113 | mg/kg | 99 |
| 81) | cyclohexanone | 13.38 | 55 | 162035 | 0.2215 | mg/kg | 99 |
| 83) | Bromobenzene | 13.70 | 156 | 148179 | 0.0132 | mg/kg | 93 |
| 84) | 1122Tetrclta | 13.64 | 83 | 148590 | 0.0158 | mg/kg | 94 |
| 85) | 123Triclproa | 13.71 | 75 | 152580 | 0.0165 | mg/kg | 98 |
| 86) | 14dichloro2butene | 13.86 | 53 | 4268 | 0.0151 | mg/kg# | 91 |
| 87) | n-Propylbenz | 13.86 | 91 | 750674 | 0.0151 | mg/kg | 98 |
| 88) | 2chlorotolue | 13.98 | 91 | 418385 | 0.0140 | mg/kg | 100 |
| 89) | 4chlorotolue | 14.13 | 91 | 474778 | 0.0135 | mg/kg | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 513431 | 0.0143 | mg/kg | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 445291 | 0.0142 | mg/kg | 98 |
| 92) | 124Trimetben | 14.66 | 105 | 525425 | 0.0147 | mg/kg | 96 |
| 93) | sbutylbenzen | 14.91 | 105 | 649223 | 0.0148 | mg/kg | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 238381 | 0.0122 | mg/kg | 97 |
| 95) | pIsopropylto | 15.13 | 119 | 558390 | 0.0147 | mg/kg | 100 |
| 96) | 14dichlorobe | 15.19 | 146 | 242128 | 0.0123 | mg/kg | 99 |
| 97) | 12dichlorobe | 15.73 | 146 | 206336 | 0.0115 | mg/kg | 98 |
| 98) | nButylbenzen | 15.72 | 91 | 484962 | 0.0140 | mg/kg | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 28496 | 0.0164 | mg/kg | 93 |
| 100) | 135Trichlorobenzene | 17.13 | 180 | 142129 | 0.0098 | mg/kg | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 105308 | 0.0083 | mg/kg | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1125\1568828S.D Vial: 16
Acq On : 11 Apr 2025 15:04 Operator: RLD-DGS
Sample : 290584,MSDS1568828,, Inst : VMS4
Misc : 5.07g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 15:25:21 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M

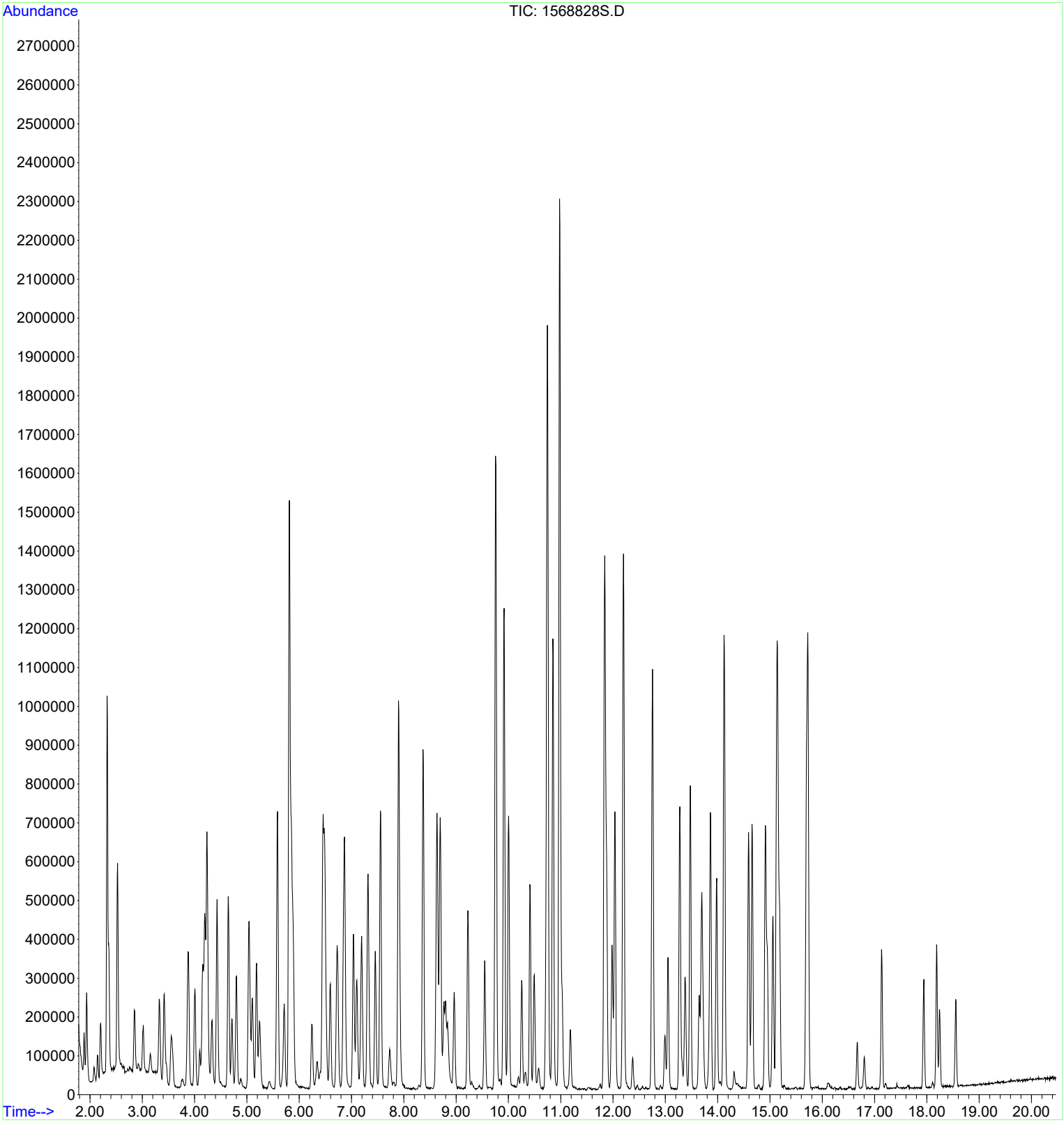
| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 85010 | 0.0106 | mg/kg | 98 |
| 103) | Naphthalene | 18.25 | 128 | 190214 | 0.0086 | mg/kg | 99 |
| 104) | 123Trichlben | 18.56 | 180 | 83155 | 0.0074 | mg/kg | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR1125\1568828S.D Vial: 16
Acq On : 11 Apr 2025 15:04 Operator: RLD-DGS
Sample : 290584,MSDS1568828,, Inst : VMS4
Misc : 5.07g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 11 15:25:21 2025 Results File: LS041025.RES

Quant Method : C:\INSTARCH\METHODS\LS041025.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 11 09:04:37 2025
Response via : Initial Calibration
DataAcq Meth : LS041025.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\CCV-LCS1.D Vial: 3
Acq On : 14 Apr 2025 8:32 Operator: RLD-DGS
Sample : 290576,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 08:53:11 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1194240 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 877318 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 437028 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 295951 | 3.968 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 49240 | 3.857 | ug/L | -0.01 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 96 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1181530 | 3.966 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 392165 | 3.991 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 356239 | 4.3437 | ug/L | 99 |
| 3) Chloromethan | 2.20 | 50 | 388601 | 3.8690 | ug/L | 98 |
| 4) VinylChlorid | 2.36 | 62 | 409387 | 4.0120 | ug/L | 100 |
| 5) Bromomethane | 2.86 | 94 | 259230 | 3.9920 | ug/L | 99 |
| 6) Chloroethane | 3.01 | 64 | 236786 | 3.7144 | ug/L | 98 |
| 7) Dichloroflmethane | 3.33 | 67 | 477496 | 3.7566 | ug/L | 99 |
| 8) Trichlorofma | 3.42 | 101 | 493461 | 4.3032 | ug/L | 99 |
| 9) Ethylether | 3.88 | 59 | 144961 | 3.6394 | ug/L | 96 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 327992 | 4.2000 | ug/L | 99 |
| 11) propyleneoxide | 4.10 | 58 | 190410 | 36.3109 | ug/L | 99 |
| 12) Acrolein | 4.01 | 56 | 104621 | 18.1678 | ug/L | 95 |
| 13) 11dichlorthe | 4.15 | 96 | 274236 | 4.0488 | ug/L | 98 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 528036 | 8.6063 | ug/L | 99 |
| 15) Acetone | 4.24 | 43 | 432964 | 33.7171 | ug/L | 100 |
| 16) Iodomethane | 4.33 | 142 | 572613 | 7.8103 | ug/L | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 1096429 | 8.1514 | ug/L | 99 |
| 18) allylchloride | 4.64 | 41 | 765672 | 7.8820 | ug/L | 99 |
| 19) methylacetate | 4.72 | 74 | 36488 | 3.3451 | ug/L | 97 |
| 20) Methylchlorid | 4.80 | 84 | 267997 | 3.8498 | ug/L | 99 |
| 21) tbutylalcohol | 5.05 | 59 | 287370 | 171.1844 | ug/L | 99 |
| 22) Acrylonitrile | 5.11 | 53 | 156522 | 19.0123 | ug/L | 96 |
| 23) t12dichlorte | 5.19 | 96 | 285081 | 3.9217 | ug/L | 100 |
| 24) MtBE | 5.25 | 73 | 283210 | 3.5140 | ug/L | 99 |
| 25) Hexane | 5.58 | 57 | 773337 | 8.5766 | ug/L | 98 |
| 26) 11dichlorota | 5.72 | 63 | 533505 | 3.9852 | ug/L | 99 |
| 27) Vinylacetate | 5.81 | 43 | 2071331 | 37.3579 | ug/L | 100 |
| 28) chloroprene | 5.85 | 53 | 853770 | 8.2457 | ug/L | 99 |
| 29) Diisopether | 5.88 | 45 | 719918 | 3.8296 | ug/L | 100 |
| 30) ETBE | 6.34 | 59 | 139521 | 3.3197 | ug/L | 99 |
| 31) 22dichloropr | 6.46 | 77 | 402257 | 4.1742 | ug/L | 98 |
| 32) c12dichlorte | 6.45 | 96 | 307250 | 3.8746 | ug/L | 99 |
| 33) 2Butanone | 6.49 | 72 | 131695 | 36.5886 | ug/L | 99 |
| 34) propionitrile | 6.51 | 54 | 121689 | 38.0369 | ug/L | 98 |
| 35) Ethylacetate | 6.60 | 88 | 11599 | 18.1081 | ug/L | 97 |
| 36) methacrylonitrile | 6.72 | 67 | 78901 | 6.9821 | ug/L | 96 |
| 37) Bromochlorma | 6.74 | 128 | 110480 | 3.7998 | ug/L | 95 |
| 38) Tetrahydofur | 6.87 | 42 | 241828 | 33.4681 | ug/L | 97 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\CCV-LCS1.D Vial: 3
Acq On : 14 Apr 2025 8:32 Operator: RLD-DGS
Sample : 290576,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 08:53:11 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 516746 | 3.7881 | ug/L | 99 |
| 40) | 111trichlota | 7.10 | 97 | 486800 | 4.0947 | ug/L | 99 |
| 42) | Cyclohexane | 7.19 | 56 | 474161 | 4.2448 | ug/L | 99 |
| 43) | Carbtetraclo | 7.33 | 119 | 429314 | 4.1398 | ug/L | 99 |
| 44) | 11dicloprope | 7.31 | 110 | 147537 | 4.1839 | ug/L | 98 |
| 46) | Benzene | 7.56 | 78 | 1172928 | 3.9101 | ug/L | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 262481 | 3.6236 | ug/L | 100 |
| 48) | TAME | 7.75 | 73 | 60297 | 3.2996 | ug/L | 97 |
| 49) | trichloroete | 8.37 | 95 | 311046 | 3.8591 | ug/L | 98 |
| 50) | methylcyclohexane | 8.64 | 83 | 549583 | 4.3351 | ug/L | 98 |
| 51) | 12dicloropra | 8.62 | 63 | 276868 | 3.8166 | ug/L | 100 |
| 52) | 23Dicl1propene | 8.68 | 75 | 437504 | 3.9519 | ug/L | 98 |
| 53) | Dibromometha | 8.76 | 93 | 111631 | 3.7143 | ug/L | 99 |
| 54) | methylmethacrylate | 8.80 | 69 | 80801 | 3.8261 | ug/L | 96 |
| 55) | 14dioxane | 8.84 | 88 | 48650 | 186.6291 | ug/L | 96 |
| 56) | Bromodiclrma | 8.96 | 83 | 339880 | 3.7670 | ug/L | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 283701 | 37.4987 | ug/L | 99 |
| 58) | c13dicloproe | 9.55 | 75 | 373826 | 3.8947 | ug/L | 98 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 839555 | 35.6903 | ug/L | 100 |
| 61) | Toluene | 10.00 | 92 | 746710 | 3.9639 | ug/L | 100 |
| 62) | t13Dicloprop | 10.25 | 75 | 260650 | 3.8373 | ug/L | 100 |
| 63) | ethylmethacrylate | 10.41 | 69 | 316609 | 7.4938 | ug/L | 100 |
| 64) | 112Triclotha | 10.49 | 83 | 129648 | 3.8185 | ug/L | 99 |
| 65) | Tetrachlorte | 10.75 | 166 | 345896 | 4.0886 | ug/L | 100 |
| 66) | 13Diclorpropa | 10.72 | 76 | 258450 | 3.6929 | ug/L | 97 |
| 68) | 2Hexanone | 10.85 | 43 | 626580 | 34.9163 | ug/L | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 202413 | 3.8884 | ug/L | 99 |
| 70) | 12Dibrometha | 11.18 | 107 | 143672 | 3.7267 | ug/L | 100 |
| 71) | Chlorobenzen | 11.88 | 112 | 779402 | 4.0207 | ug/L | 99 |
| 72) | 1Clhexane | 11.85 | 91 | 413544 | 4.0646 | ug/L | 98 |
| 73) | 1112Tetclota | 11.98 | 131 | 257234 | 3.9298 | ug/L | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 1413013 | 3.9777 | ug/L | 100 |
| 75) | m p-Xylene | 12.20 | 106 | 1110947 | 8.1453 | ug/L | 98 |
| 76) | o-Xylene | 12.75 | 106 | 522611 | 3.9683 | ug/L | 99 |
| 77) | Styrene | 12.76 | 104 | 789103 | 4.0239 | ug/L | 99 |
| 78) | Bromoform | 12.99 | 173 | 97842 | 3.9809 | ug/L | 98 |
| 79) | Isopropylben | 13.28 | 105 | 1425112 | 4.1130 | ug/L | 99 |
| 80) | cyclohexanone | 13.38 | 55 | 267535 | 67.9585 | ug/L | 96 |
| 83) | Bromobenzene | 13.69 | 156 | 293396 | 3.9436 | ug/L | 99 |
| 84) | 1122Tetrclta | 13.65 | 83 | 150831 | 3.8272 | ug/L | 99 |
| 85) | 123Triclproa | 13.71 | 75 | 152073 | 3.7087 | ug/L | 98 |
| 86) | 14dichloro2butene | 13.74 | 53 | 9309 | 3.7089 | ug/L | 89 |
| 87) | n-Propylbenz | 13.86 | 91 | 1645554 | 4.1515 | ug/L | 100 |
| 88) | 2chlorotolue | 13.98 | 91 | 919503 | 3.9973 | ug/L | 100 |
| 89) | 4chlorotolue | 14.13 | 91 | 1028826 | 3.9645 | ug/L | 100 |
| 90) | 135Trimebenz | 14.12 | 105 | 1155341 | 4.0767 | ug/L | 99 |
| 91) | tbutylbenzen | 14.59 | 119 | 1007848 | 4.1269 | ug/L | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 1114864 | 4.0726 | ug/L | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 1478028 | 4.2154 | ug/L | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 550693 | 3.9707 | ug/L | 99 |
| 95) | pIsopropylto | 15.13 | 119 | 1250052 | 4.1694 | ug/L | 100 |
| 96) | 14dichlorobe | 15.18 | 146 | 534516 | 3.9221 | ug/L | 99 |
| 97) | 12dichlorobe | 15.72 | 146 | 462043 | 3.8690 | ug/L | 99 |
| 98) | nButylbenzen | 15.73 | 91 | 1099213 | 4.0832 | ug/L | 100 |
| 99) | 12dibromo3cl | 16.81 | 157 | 22042 | 3.6168 | ug/L | 95 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 384572 | 3.9523 | ug/L | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 259994 | 3.9036 | ug/L | 99 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\CCV-LCS1.D Vial: 3
Acq On : 14 Apr 2025 8:32 Operator: RLD-DGS
Sample : 290576,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 08:53:11 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 196052 | 4.0032 | ug/L | 98 |
| 103) | Naphthalene | 18.24 | 128 | 315488 | 3.5999 | ug/L | 99 |
| 104) | 123Trichlben | 18.55 | 180 | 194714 | 3.8005 | ug/L | 99 |

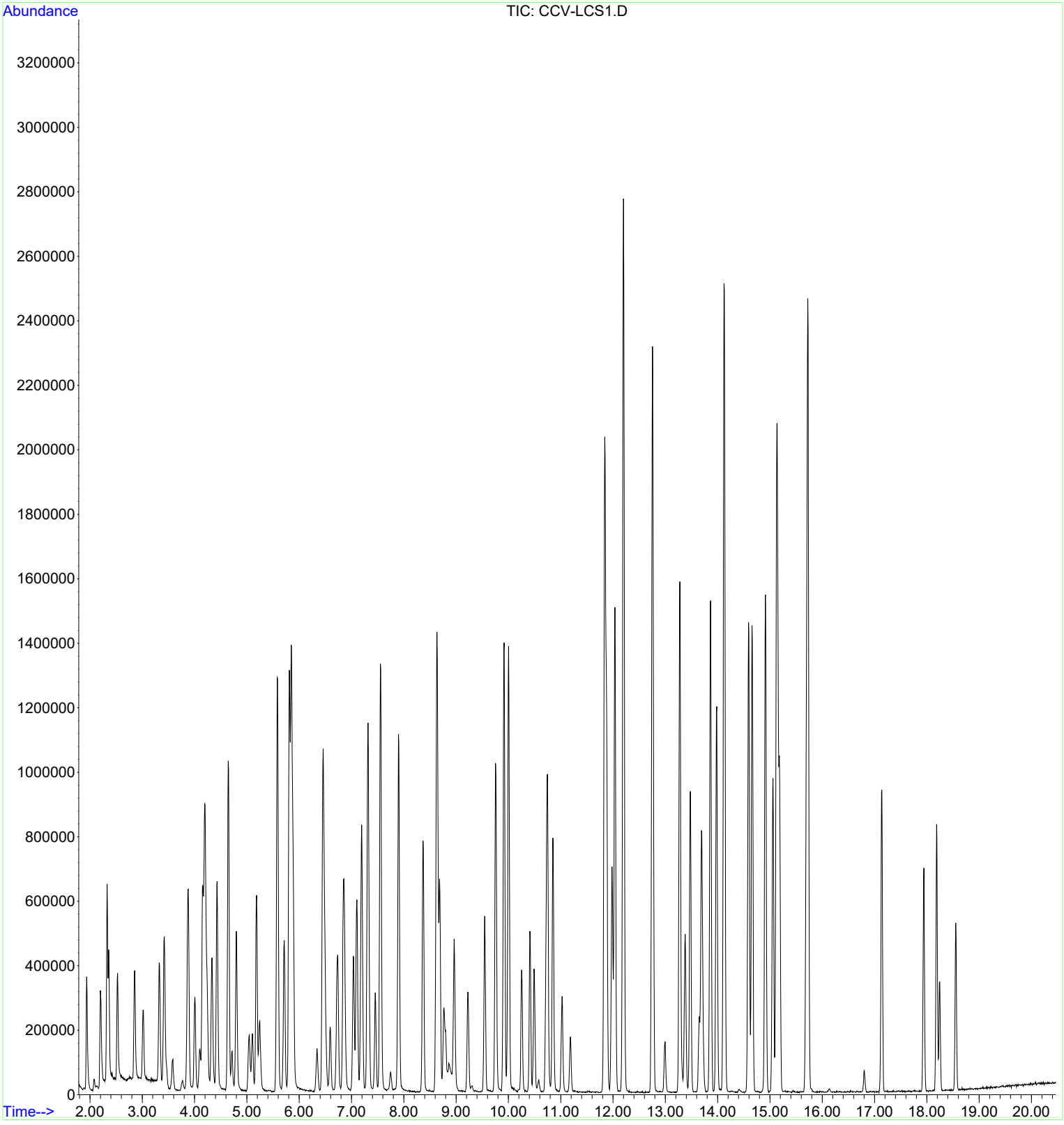
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\CCV-LCS1.D Vial: 3
Acq On : 14 Apr 2025 8:32 Operator: RLD-DGS
Sample : 290576,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 08:53:11 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 07:37:55 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\LCSD1.D Vial: 4
Acq On : 14 Apr 2025 9:00 Operator: RLD-DGS
Sample : 290576,LCSDW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 09:21:28 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1187118 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.83 | 117 | 883248 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 452054 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 296528 | 4.000 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 51023 | 4.021 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 101 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1210223 | 4.087 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 102 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 401833 | 3.954 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 99 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 1.94 | 85 | 347041 | 4.2569 | ug/L | 100 |
| 3) Chloromethan | 2.20 | 50 | 385998 | 3.8662 | ug/L | 100 |
| 4) VinylChlorid | 2.36 | 62 | 407888 | 4.0213 | ug/L | 100 |
| 5) Bromomethane | 2.86 | 94 | 254590 | 3.9440 | ug/L | 97 |
| 6) Chloroethane | 3.02 | 64 | 236956 | 3.7393 | ug/L | 98 |
| 7) Dichloroflmethane | 3.33 | 67 | 482307 | 3.8173 | ug/L | 99 |
| 8) Trichlorofma | 3.42 | 101 | 486156 | 4.2649 | ug/L | 100 |
| 9) Ethylether | 3.89 | 59 | 145911 | 3.6853 | ug/L | 99 |
| 10) dichlorotfluoroethan | 3.87 | 67 | 319505 | 4.1159 | ug/L | 99 |
| 11) propyleneoxide | 4.10 | 58 | 206141 | 39.5467 | ug/L | 98 |
| 12) Acrolein | 4.01 | 56 | 106655 | 18.6321 | ug/L | 91 |
| 13) 11dichlorthe | 4.16 | 96 | 270934 | 4.0241 | ug/L | 97 |
| 14) Trichlorotfluoroeth | 4.19 | 101 | 527863 | 8.6550 | ug/L | 100 |
| 15) Acetone | 4.24 | 43 | 461351 | 36.1433 | ug/L | 100 |
| 16) Iodomethane | 4.33 | 142 | 598068 | 8.2064 | ug/L | 99 |
| 17) Carbon Dislf | 4.43 | 76 | 1074714 | 8.0379 | ug/L | 100 |
| 18) allylchloride | 4.64 | 41 | 745796 | 7.7235 | ug/L | 98 |
| 19) methylacetate | 4.71 | 74 | 39079 | 3.6041 | ug/L | 95 |
| 20) Methylchlorid | 4.80 | 84 | 269890 | 3.9024 | ug/L | 100 |
| 21) tbutylalcohol | 5.04 | 59 | 312067 | 187.0115 | ug/L | 99 |
| 22) Acrylonitrile | 5.11 | 53 | 167070 | 20.4153 | ug/L | 94 |
| 23) t12dichlorte | 5.19 | 96 | 283733 | 3.9265 | ug/L | 99 |
| 24) MtBE | 5.25 | 73 | 300003 | 3.7447 | ug/L | 97 |
| 25) Hexane | 5.59 | 57 | 790482 | 8.8194 | ug/L | 98 |
| 26) 11dichlorota | 5.71 | 63 | 513012 | 3.8551 | ug/L | 99 |
| 27) Vinylacetate | 5.81 | 43 | 2067021 | 37.5039 | ug/L | 99 |
| 28) chloroprene | 5.85 | 53 | 834735 | 8.1103 | ug/L | 98 |
| 29) Diisopether | 5.88 | 45 | 741030 | 3.9656 | ug/L | 98 |
| 30) ETBE | 6.34 | 59 | 157554 | 3.7712 | ug/L | 99 |
| 31) 22dichloropr | 6.46 | 77 | 402714 | 4.2040 | ug/L | 98 |
| 32) c12dichlorte | 6.45 | 96 | 307868 | 3.9057 | ug/L | 98 |
| 33) 2Butanone | 6.49 | 72 | 138758 | 38.7821 | ug/L | 98 |
| 34) propionitrile | 6.51 | 54 | 125435 | 39.4430 | ug/L | 96 |
| 35) Ethylacetate | 6.60 | 88 | 11495 | 18.0534 | ug/L # | 93 |
| 36) methacrylonitrile | 6.72 | 67 | 87176 | 7.7607 | ug/L | 96 |
| 37) Bromochlorma | 6.74 | 128 | 111952 | 3.8735 | ug/L | 93 |
| 38) Tetrahydofur | 6.86 | 42 | 255806 | 35.6150 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\LCSD1.D Vial: 4
Acq On : 14 Apr 2025 9:00 Operator: RLD-DGS
Sample : 290576,LCSDW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 09:21:28 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 39) | Chloroform | 6.85 | 83 | 517285 | 3.8148 | ug/L | 99 |
| 40) | 111trichlota | 7.10 | 97 | 482511 | 4.0830 | ug/L | 100 |
| 42) | Cyclohexane | 7.19 | 56 | 474232 | 4.2709 | ug/L | 99 |
| 43) | Carbtetraclo | 7.33 | 119 | 429059 | 4.1621 | ug/L | 100 |
| 44) | 11dicloprope | 7.31 | 110 | 145601 | 4.1538 | ug/L | 99 |
| 46) | Benzene | 7.56 | 78 | 1163475 | 3.9018 | ug/L | 99 |
| 47) | 12dichlorota | 7.55 | 62 | 266488 | 3.7010 | ug/L | 99 |
| 48) | TAME | 7.75 | 73 | 66790 | 3.6768 | ug/L | 95 |
| 49) | trichloroete | 8.37 | 95 | 307958 | 3.8438 | ug/L | 98 |
| 50) | methylcyclohexane | 8.64 | 83 | 542059 | 4.3014 | ug/L | 99 |
| 51) | 12dicloropra | 8.63 | 63 | 279947 | 3.8822 | ug/L | 99 |
| 52) | 23Dicl1propene | 8.68 | 75 | 432299 | 3.9283 | ug/L | 99 |
| 53) | Dibromometha | 8.76 | 93 | 114672 | 3.8383 | ug/L | 96 |
| 54) | methylmethacrylate | 8.80 | 69 | 78608 | 3.7446 | ug/L | 98 |
| 55) | 14dioxane | 8.84 | 88 | 49691 | 191.7662 | ug/L | 96 |
| 56) | Bromodiclrma | 8.96 | 83 | 344206 | 3.8378 | ug/L | 99 |
| 57) | 2Nitropropane | 9.23 | 43 | 293350 | 39.0067 | ug/L | 95 |
| 58) | c13dicloproe | 9.55 | 75 | 369150 | 3.8690 | ug/L | 98 |
| 59) | 4Meth2Pentan | 9.75 | 43 | 894180 | 38.2405 | ug/L | 99 |
| 61) | Toluene | 10.00 | 92 | 731917 | 3.9087 | ug/L | 97 |
| 62) | t13Dicloprop | 10.26 | 75 | 265613 | 3.9338 | ug/L | 97 |
| 63) | ethylmethacrylate | 10.41 | 69 | 332402 | 7.9148 | ug/L | 99 |
| 64) | 112Triclotha | 10.49 | 83 | 132350 | 3.9215 | ug/L | 100 |
| 65) | Tetrachlorte | 10.75 | 166 | 341124 | 4.0564 | ug/L | 98 |
| 66) | 13Diclorpropa | 10.72 | 76 | 269556 | 3.8747 | ug/L | 99 |
| 68) | 2Hexanone | 10.85 | 43 | 670339 | 37.1040 | ug/L | 99 |
| 69) | Clorodibrmta | 11.03 | 129 | 204501 | 3.9021 | ug/L | 99 |
| 70) | 12Dibrometha | 11.19 | 107 | 145328 | 3.7444 | ug/L | 98 |
| 71) | Chlorobenzen | 11.88 | 112 | 766828 | 3.9293 | ug/L | 98 |
| 72) | 1Clhexane | 11.85 | 91 | 416565 | 4.0669 | ug/L | 99 |
| 73) | 1112Tetclota | 11.98 | 131 | 261498 | 3.9681 | ug/L | 98 |
| 74) | Ethylbenzene | 12.04 | 91 | 1419776 | 3.9699 | ug/L | 99 |
| 75) | m p-Xylene | 12.20 | 106 | 1109181 | 8.0778 | ug/L | 98 |
| 76) | o-Xylene | 12.75 | 106 | 520964 | 3.9293 | ug/L | 99 |
| 77) | Styrene | 12.76 | 104 | 791961 | 4.0113 | ug/L | 100 |
| 78) | Bromoform | 12.99 | 173 | 101172 | 4.0887 | ug/L | 98 |
| 79) | Isopropylben | 13.28 | 105 | 1411738 | 4.0470 | ug/L | 98 |
| 80) | cyclohexanone | 13.38 | 55 | 299344 | 75.5280 | ug/L | 100 |
| 83) | Bromobenzene | 13.70 | 156 | 291388 | 3.7864 | ug/L | 98 |
| 84) | 1122Tetrclta | 13.65 | 83 | 160052 | 3.9262 | ug/L | 97 |
| 85) | 123Triclproa | 13.71 | 75 | 161770 | 3.8140 | ug/L | 100 |
| 86) | 14dichloro2butene | 13.73 | 53 | 11528 | 4.4044 | ug/L | 95 |
| 87) | n-Propylbenz | 13.87 | 91 | 1637563 | 3.9940 | ug/L | 100 |
| 88) | 2chlorotolue | 13.98 | 91 | 921437 | 3.8725 | ug/L | 99 |
| 89) | 4chlorotolue | 14.13 | 91 | 1043730 | 3.8882 | ug/L | 99 |
| 90) | 135Trimebenz | 14.12 | 105 | 1163292 | 3.9683 | ug/L | 100 |
| 91) | tbutylbenzen | 14.59 | 119 | 1016501 | 4.0240 | ug/L | 100 |
| 92) | 124Trimetben | 14.66 | 105 | 1126836 | 3.9795 | ug/L | 100 |
| 93) | sbutylbenzen | 14.91 | 105 | 1478084 | 4.0754 | ug/L | 100 |
| 94) | 13Diclorbenz | 15.06 | 146 | 555049 | 3.8691 | ug/L | 100 |
| 95) | pIsopropylto | 15.13 | 119 | 1251356 | 4.0350 | ug/L | 100 |
| 96) | 14dichlorobe | 15.19 | 146 | 541441 | 3.8408 | ug/L | 100 |
| 97) | 12dichlorobe | 15.73 | 146 | 476666 | 3.8588 | ug/L | 98 |
| 98) | nButylbenzen | 15.73 | 91 | 1120146 | 4.0227 | ug/L | 99 |
| 99) | 12dibromo3cl | 16.81 | 157 | 24533 | 3.8917 | ug/L | 90 |
| 100) | 135Trichlorobenzene | 17.14 | 180 | 396758 | 3.9420 | ug/L | 99 |
| 101) | 124Trichlobe | 17.94 | 180 | 270257 | 3.9228 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\LCSD1.D Vial: 4
Acq On : 14 Apr 2025 9:00 Operator: RLD-DGS
Sample : 290576,LCSDW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 09:21:28 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|---|
| 102) | Hexachlorobu | 18.19 | 225 | 201362 | 3.9749 | ug/L | 98 |
| 103) | Naphthalene | 18.25 | 128 | 351496 | 3.8774 | ug/L | 98 |
| 104) | 123Trichlben | 18.55 | 180 | 203334 | 3.8368 | ug/L | 97 |

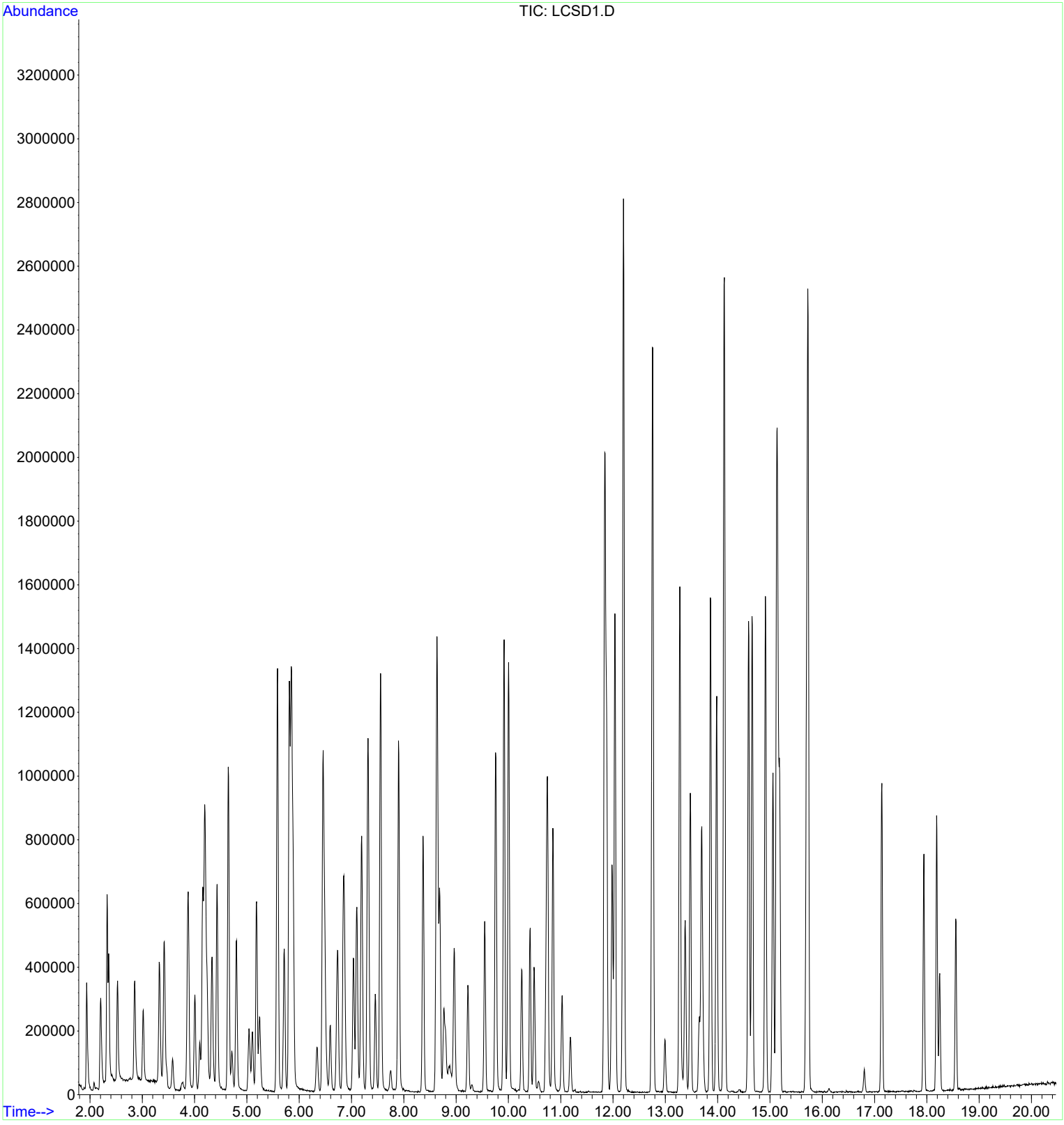
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\LCSD1.D  Vial: 4
Acq On : 14 Apr 2025 9:00  Operator: RLD-DGS
Sample : 290576,LCSDW,  Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS  Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 09:21:28 2025  Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\MB1.D Vial: 8
Acq On : 14 Apr 2025 10:53 Operator: RLD-DGS
Sample : 290576,MBW, Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 11:14:26 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) Rcv(Ar ) |
|---|---|---|---|---|---|---|
| 1) FLUOROBENZENE**ISTD** | 7.90 | 96 | 1164069 | 4.00 | ug/L | 0.00 NA% |
| 67) d5-CHLOROBENZENE**ISTD** | 11.84 | 117 | 869142 | 4.00 | ug/L | 0.00 NA% |
| 81) d4-1,4-DICHLOROBENZENE**IS | 15.15 | 152 | 419697 | 4.00 | ug/L | 0.00 NA% |
| **System Monitoring Compounds** | | | | | | |
| 41) SURRDibrflma | 7.04 | 113 | 289446 | 3.981 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 100 | % | | |
| 45) SURR12DCAd4 | 7.45 | 102 | 50914 | 4.091 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 102 | % | | |
| 60) SURRd8Tolule | 9.92 | 98 | 1179835 | 4.063 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 102 | % | | |
| 82) SURR4BrFBenz | 13.48 | 95 | 381773 | 4.046 | ug/L | 0.00 |
| Spiked Amount 4.000 | Range 70 - 130 | | Recovery = 101 | % | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodi | 0.00 | 85 | 0 | N.D. | | |
| 3) Chloromethan | 2.20 | 50 | 4523 | 0.0462 | ug/L # | 42 |
| 4) VinylChlorid | 0.00 | 62 | 0 | N.D. | | |
| 5) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 6) Chloroethane | 2.95 | 64 | 12784 | 0.2057 | ug/L # | 42 |
| 7) Dichloroflmethane | 0.00 | 67 | 0 | N.D. | | |
| 8) Trichlorofma | 0.00 | 101 | 0 | N.D. | | |
| 9) Ethylether | 0.00 | 59 | 0 | N.D. | | |
| 10) dichlorotfluoroethan | 0.00 | 67 | 0 | N.D. | | |
| 11) propyleneoxide | 0.00 | 58 | 0 | N.D. | | |
| 12) Acrolein | 0.00 | 56 | 0 | N.D. | | |
| 13) 11dichlorthe | 0.00 | 96 | 0 | N.D. | | |
| 14) Trichlorotfluoroeth | 0.00 | 101 | 0 | N.D. | | |
| 15) Acetone | 4.25 | 43 | 5649 | N.D. | | |
| 16) Iodomethane | 0.00 | 142 | 0 | N.D. | | |
| 17) Carbon Dislf | 4.44 | 76 | 4311 | N.D. | | |
| 18) allylchloride | 0.00 | 41 | 0 | N.D. | | |
| 19) methylacetate | 0.00 | 74 | 0 | N.D. | | |
| 20) Methylchlorid | 4.80 | 84 | 4191 | N.D. | | |
| 21) tbutylalcohol | 0.00 | 59 | 0 | N.D. | | |
| 22) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 23) t12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 24) MtBE | 0.00 | 73 | 0 | N.D. | | |
| 25) Hexane | 0.00 | 57 | 0 | N.D. | | |
| 26) 11dichlorota | 0.00 | 63 | 0 | N.D. | | |
| 27) Vinylacetate | 0.00 | 43 | 0 | N.D. | | |
| 28) chloroprene | 0.00 | 53 | 0 | N.D. | | |
| 29) Diisopether | 0.00 | 45 | 0 | N.D. | | |
| 30) ETBE | 0.00 | 59 | 0 | N.D. | | |
| 31) 22dichloropr | 0.00 | 77 | 0 | N.D. | | |
| 32) c12dichlorte | 0.00 | 96 | 0 | N.D. | | |
| 33) 2Butanone | 0.00 | 72 | 0 | N.D. | | |
| 34) propionitrile | 0.00 | 54 | 0 | N.D. | | |
| 35) Ethylacetate | 0.00 | 88 | 0 | N.D. | | |
| 36) methacrylonitrile | 0.00 | 67 | 0 | N.D. | | |
| 37) Bromochlorma | 0.00 | 128 | 0 | N.D. | | |
| 38) Tetrahydofur | 0.00 | 42 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\MB1.D Vial: 8
Acq On : 14 Apr 2025 10:53 Operator: RLD-DGS
Sample : 290576,MBW, Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 11:14:26 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| | Compound | R.T. | QIon | Response | Conc Unit | Qvalue |
|---|---|---|---|---|---|---|
| 39) | Chloroform | 0.00 | 83 | 0 | N.D. | |
| 40) | 111trichlota | 0.00 | 97 | 0 | N.D. | |
| 42) | Cyclohexane | 0.00 | 56 | 0 | N.D. | |
| 43) | Carbtetraclo | 0.00 | 119 | 0 | N.D. | |
| 44) | 11dicloprope | 0.00 | 110 | 0 | N.D. | |
| 46) | Benzene | 0.00 | 78 | 0 | N.D. | |
| 47) | 12dichlorota | 0.00 | 62 | 0 | N.D. | |
| 48) | TAME | 0.00 | 73 | 0 | N.D. | |
| 49) | trichloroete | 0.00 | 95 | 0 | N.D. | |
| 50) | methylcyclohexane | 0.00 | 83 | 0 | N.D. | |
| 51) | 12dicloropra | 0.00 | 63 | 0 | N.D. | |
| 52) | 23Dicl1propene | 0.00 | 75 | 0 | N.D. | |
| 53) | Dibromometha | 0.00 | 93 | 0 | N.D. | |
| 54) | methylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 55) | 14dioxane | 0.00 | 88 | 0 | N.D. | |
| 56) | Bromodiclrma | 0.00 | 83 | 0 | N.D. | |
| 57) | 2Nitropropane | 0.00 | 43 | 0 | N.D. | |
| 58) | c13dicloproe | 0.00 | 75 | 0 | N.D. | |
| 59) | 4Meth2Pentan | 0.00 | 43 | 0 | N.D. | |
| 61) | Toluene | 0.00 | 92 | 0 | N.D. | |
| 62) | t13Dicloprop | 0.00 | 75 | 0 | N.D. | |
| 63) | ethylmethacrylate | 0.00 | 69 | 0 | N.D. | |
| 64) | 112Triclotha | 0.00 | 83 | 0 | N.D. | |
| 65) | Tetrachlorte | 0.00 | 166 | 0 | N.D. | |
| 66) | 13Diclorpropa | 0.00 | 76 | 0 | N.D. | |
| 68) | 2Hexanone | 0.00 | 43 | 0 | N.D. | |
| 69) | Clorodibrmta | 0.00 | 129 | 0 | N.D. | |
| 70) | 12Dibrometha | 0.00 | 107 | 0 | N.D. | |
| 71) | Chlorobenzen | 0.00 | 112 | 0 | N.D. | |
| 72) | 1Clhexane | 0.00 | 91 | 0 | N.D. | |
| 73) | 1112Tetclota | 0.00 | 131 | 0 | N.D. | |
| 74) | Ethylbenzene | 0.00 | 91 | 0 | N.D. | |
| 75) | m p-Xylene | 0.00 | 106 | 0 | N.D. | |
| 76) | o-Xylene | 0.00 | 106 | 0 | N.D. | |
| 77) | Styrene | 0.00 | 104 | 0 | N.D. | |
| 78) | Bromoform | 0.00 | 173 | 0 | N.D. | |
| 79) | Isopropylben | 0.00 | 105 | 0 | N.D. | |
| 80) | cyclohexanone | 0.00 | 55 | 0 | N.D. | |
| 83) | Bromobenzene | 0.00 | 156 | 0 | N.D. | |
| 84) | 1122Tetrclta | 0.00 | 83 | 0 | N.D. | |
| 85) | 123Triclproa | 0.00 | 75 | 0 | N.D. | |
| 86) | 14dichloro2butene | 0.00 | 53 | 0 | N.D. | |
| 87) | n-Propylbenz | 0.00 | 91 | 0 | N.D. | |
| 88) | 2chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 89) | 4chlorotolue | 0.00 | 91 | 0 | N.D. | |
| 90) | 135Trimebenz | 0.00 | 105 | 0 | N.D. | |
| 91) | tbutylbenzen | 0.00 | 119 | 0 | N.D. | |
| 92) | 124Trimetben | 0.00 | 105 | 0 | N.D. | |
| 93) | sbutylbenzen | 0.00 | 105 | 0 | N.D. | |
| 94) | 13Diclorbenz | 0.00 | 146 | 0 | N.D. | |
| 95) | pIsopropylto | 0.00 | 119 | 0 | N.D. | |
| 96) | 14dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 97) | 12dichlorobe | 0.00 | 146 | 0 | N.D. | |
| 98) | nButylbenzen | 0.00 | 91 | 0 | N.D. | |
| 99) | 12dibromo3cl | 0.00 | 157 | 0 | N.D. | |
| 100) | 135Trichlorobenzene | 0.00 | 180 | 0 | N.D. | |
| 101) | 124Trichlobe | 0.00 | 180 | 0 | N.D. | |

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\MB1.D Vial: 8
Acq On : 14 Apr 2025 10:53 Operator: RLD-DGS
Sample : 290576,MBW, Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 11:14:26 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

| Compound | R.T. | QIon | Response | Conc | Unit | Qvalue |
|---|---|---|---|---|---|---|
| 102) Hexachlorobu | 0.00 | 225 | 0 | N.D. | | |
| 103) Naphthalene | 0.00 | 128 | 0 | N.D. | | |
| 104) 123Trichlben | 0.00 | 180 | 0 | N.D. | | |

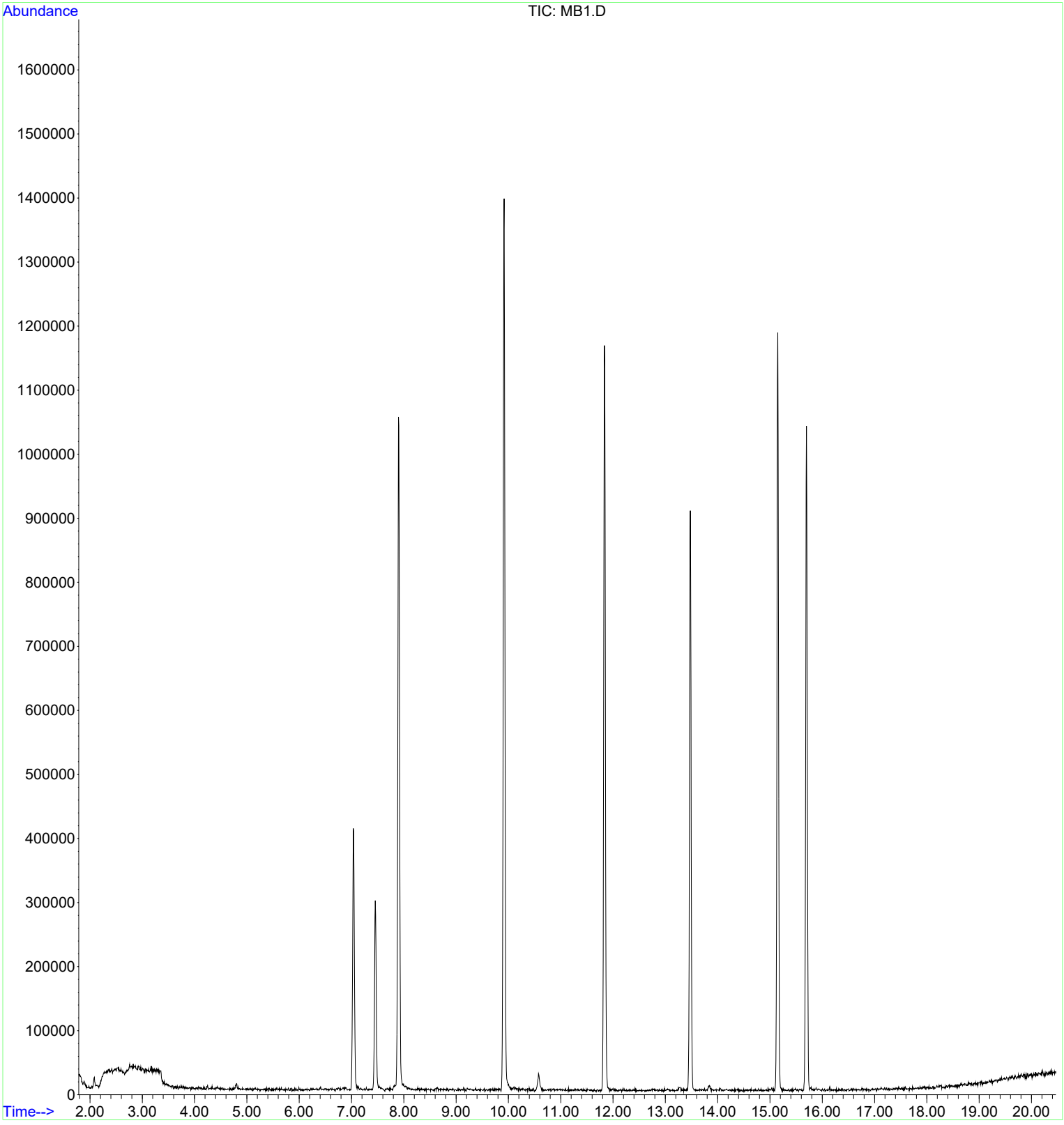
(#) = qualifier out of range (m) = manual integration

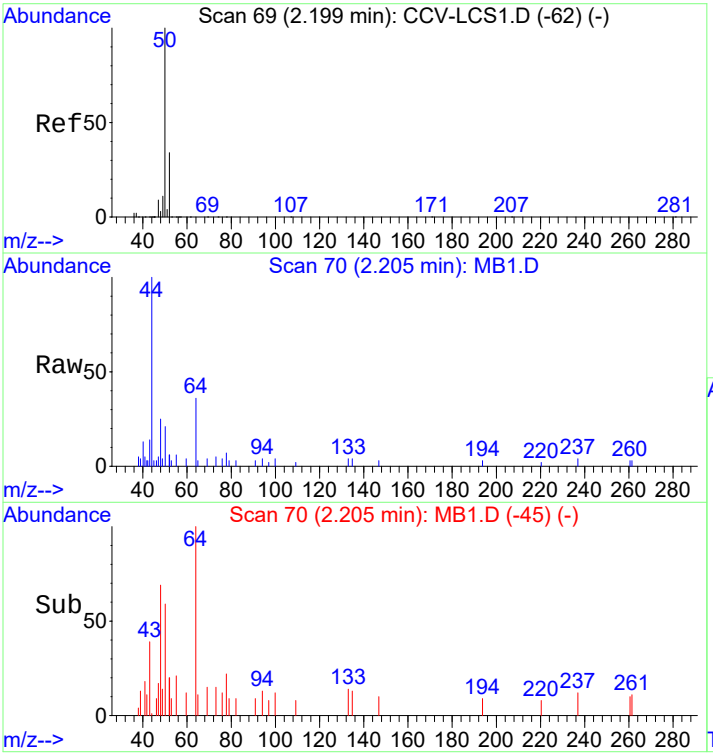
Quantitation Report

Data File : C:\INSTARCH\DATA\APR1425\MB1.D Vial: 8
Acq On : 14 Apr 2025 10:53 Operator: RLD-DGS
Sample : 290576,MBW, Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 14 11:14:26 2025 Results File: LW041325.RES

Quant Method : C:\INSTARCH\METHODS\LW041325.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 14 09:19:32 2025
Response via : Initial Calibration
DataAcq Meth : LW041325.M

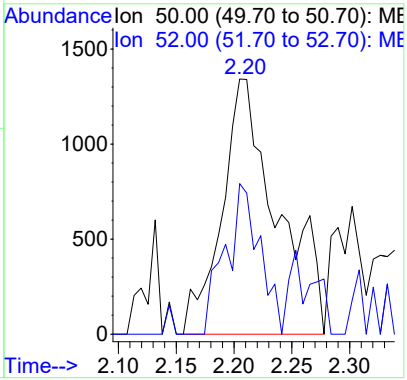




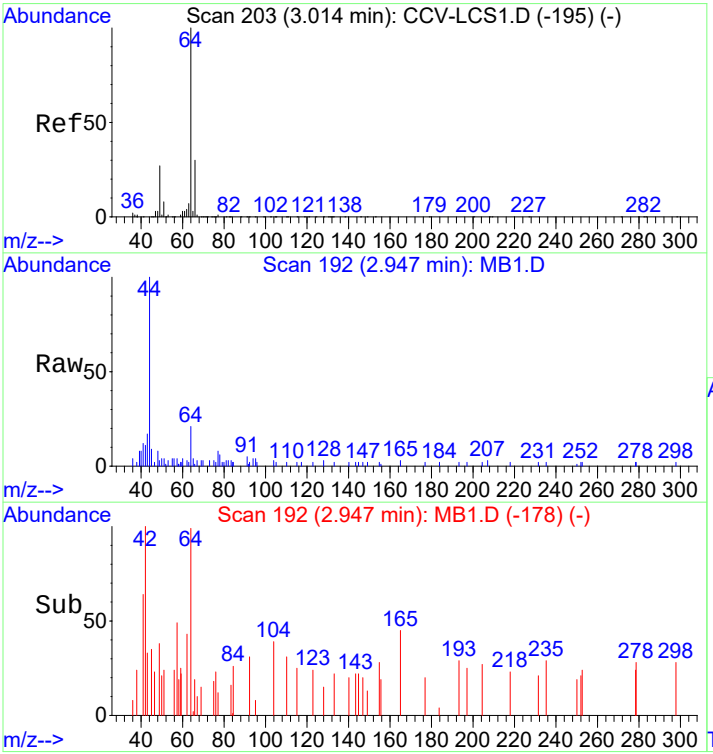

#3
Chloromethan
Concen: 0.05 ug/L
RT: 2.20 min Scan# 70
Delta R.T. -0.00 min
Lab File: MB1.D
Acq: 14 Apr 2025 10:53

Tgt Ion: 50 Resp: 4523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 0.0 | 13.0 | 53.0# |



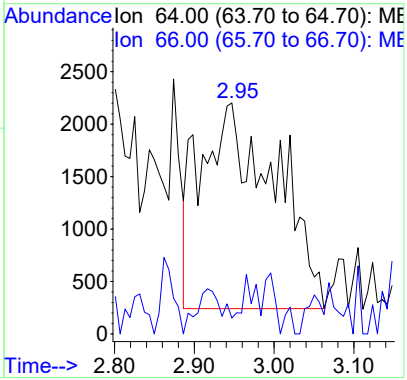

Negative Library Identification




#6
Chloroethane
Concen: 0.21 ug/L
RT: 2.95 min Scan# 192
Delta R.T. -0.07 min
Lab File: MB1.D
Acq: 14 Apr 2025 10:53

Tgt Ion: 64 Resp: 12784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 0.0 | 12.5 | 52.5# |




Negative Library Identification

# VOLATILE ORGANIC ANALYSIS
# LOGBOOK
# DOCUMENTS

# VOC 8260 QSM SOIL 5.0 Analytical Run
# 290873 on 4/15/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568821 | | 4/1/2025 | 11:10 | HDR, INC | DDMT-DFW | VOC 8260 XYLENES QSM | | S | 4 | Y |
| | | SB-112-5-DFW | | | | | | 138406 | | | |

**1** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

# PrepWrkSht
# on 4/15/2025

Prep Batch **138,406** Date Prepped: 4/7/2025 Prepped By:: RLD

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568821 | | | VOC 8260 XYLENES QSM | SOIL | 5.0 | 10.23 | | 4 | |

Notes:_____

# VOC 8260 QSM SOIL 5.0 Analytical Run
# 290872 on 4/15/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568821 | SB-112-5-DFW | 4/1/2025 11:10 | | HDR, INC | DDMT-DFW | VOC 8260 TOT DCE QSM | 138405 | S | 4 | Y |

**1** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: Volatiles C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmpEA5E.tmp

# PrepWrkSht
# on 4/15/2025

Prep Batch **138,405** Date Prepped: 4/7/2025 Prepped By:: RLD

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568821 | | | VOC 8260 TOT DCE QSM | SOIL | 5.0 | 10.23 | | 4 | |

Notes:_____

# VOC 8260 QSM SOIL 5.0 Analytical Run
# 290598 on 4/10/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1569893 | | | | | | VOC 8260 QSM SOIL 5.0 | | | | |
| | | | | BFB | | | | 0 | | | |
| | 1569895 | | | | | | VOC 8260 QSM SOIL 5.0 | | | | |
| | | | | CCV | | | | 0 | | | |
| | 1569823 | | | | | | VOC 8260 QSM 5 | | | | |
| | | | | LCSS | | | | 138291 | | | |
| | 1569822 | | | | | | VOC 8260 QSM 5 | | | | |
| | | | | MBS | | | | 138291 | | | |
| 194024 | 1568820 | | 4/1/2025 10:30 | | HDR, INC | DDMT-DFW | VOC 8260 QSM 5 | | S | 4 | |
| | | SB-112-0-DFW | | | | | | 138291 | | | |
| 194024 | 1568821 | | 4/1/2025 11:10 | | HDR, INC | DDMT-DFW | VOC 8260 QSM 5 | | S | 4 | |
| | | SB-112-5-DFW | | | | | | 138291 | | | |
| | 1571425 | | | | | | VOC 8260 QSM SOIL 5.0 | | | | |
| | | | | CCVF | | | | 0 | | | |
| | 1570295 | | | | | | VOC 8260 QSM SOIL 5.0 | | | | |
| | | | | BFB | | | | 0 | | | |
| | 1570299 | | | | | | VOC 8260 QSM SOIL 5.0 | | | | |
| | | | | CCV | | | | 0 | | | |
| | 1570300 | | | | | | VOC 8260 QSM SOIL 5.0 | | | | |
| | | | | CCB | | | | 0 | | | |
| 194024 | 1568822 | | 4/1/2025 11:35 | | HDR, INC | DDMT-DFW | VOC 8260 QSM 5 | | S | 4 | |
| | | SB-111-0-DFW | | | | | | 138291 | | | |
| 194024 | 1568823 | | 4/1/2025 12:10 | | HDR, INC | DDMT-DFW | VOC 8260 QSM 5 | | S | 4 | |
| | | SB-111-5-DFW | | | | | | 138291 | | | |
| 194024 | 1568828 | | 4/1/2025 14:25 | | HDR, INC | DDMT-DFW | VOC 8260 QSM 5 | | S | 4 | |
| | | SB-113-0-DFW | | Designated MS/MSD | | | | 138291 | | | |
| 194024 | 1568830 | | 4/1/2025 15:10 | | HDR, INC | DDMT-DFW | VOC 8260 QSM 5 | | S | 4 | |
| | | SB-113-5-DFW | | | | | | 138291 | | | |
| 194024 | 1568846 | | 4/1/2025 13:10 | | HDR, INC | DDMT-DFW | VOC 8260 QSM 5 | | S | 4 | |
| | | DUP-1-DFW | | | | | | 138291 | | | |
| | 1569820 | | 4/1/2025 14:25 | | | | VOC 8260 QSM 5 | | | | |
| | | SB-113-0-DFW | | MSS 1568828 | | | | 138291 | | | |
| | 1569821 | | 4/1/2025 14:25 | | | | VOC 8260 QSM 5 | | | | |
| | | SB-113-0-DFW | | MSDS 1569820 | | | | 138291 | | | |
| | 1570637 | | | | | | VOC 8260 QSM SOIL 5.0 | | | | |
| | | | | CCVF | | | | 0 | | | |

**18** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmp92BF.tmp

# PrepWrkSht
# on 4/9/2025

Prep Batch **138,291** Date Prepped: 4/7/2025 Prepped By:: RLD

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1569822 | MBS | | VOC 8260 QSM 5 | SOLID | 5.0 | 5.00 | | | |
| | 1569823 | LCSS | | VOC 8260 QSM 5 | SOLID | 5.0 | 5.00 | | | |
| 194024 | 1568820 | | | VOC 8260 QSM 5 | SOIL | 5.0 | 4.29 | | 4 | |
| | 1568821 | | | VOC 8260 QSM 5 | SOIL | 5.0 | 10.23 | | 4 | |
| | 1568822 | | | VOC 8260 QSM 5 | SOIL | 5.0 | 5.01 | | 4 | |
| | 1568823 | | | VOC 8260 QSM 5 | SOIL | 5.0 | 5.77 | | 4 | |
| | 1568828 | sample designated for QC | | VOC 8260 QSM 5 | SOIL | 5.0 | 3.35 | | 4 | |
| | 1568830 | | | VOC 8260 QSM 5 | SOIL | 5.0 | 4.86 | | 4 | |
| | 1568846 | | | VOC 8260 QSM 5 | SOIL | 5.0 | 4.79 | | 4 | |
| | 1569820 | MSS | 1568828 | VOC 8260 QSM 5 | SOIL | 5.0 | 4.72 | | | |
| | 1569821 | MSDS | 1569820 | VOC 8260 QSM 5 | SOIL | 5.0 | 4.72 | | | |

Notes:_____

**FVO3,4,5,6,7-02**

# VOC SOILS PRESERVED - PREP BENCHSHEET

| | |
|---|---|
| **Prep Batch #:** | 138291/138404/138405 |
| **Method:** | 8260C |
| **Analyst:** | RLD |
| **Date:** | 04/07/2025 |
| **Start Time:** | 08:50 |

**NON-LUST**

| | Sample ID | Vial Weight (g) | Tare Weight (g) | Sample Weight (g) | | MeOH Added (mL) |
|---|---|---|---|---|---|---|
| 1 | 1568820 | 33.94 | 29.40 | 4.29 | | 5.0 |
| 2 | 1568821 | 40.00 | 29.52 | 10.23 | | 5.0 |
| 3 | 1568822 | 34.60 | 29.34 | 5.01 | | 5.0 |
| 4 | 1568823 | 35.46 | 29.44 | 5.77 | | 5.0 |
| 5 | 1568828 | 33.09 | 29.49 | 3.35 | | 5.0 |
| 6 | 1568830 | 34.58 | 29.47 | 4.86 | | 5.0 |
| 7 | 1568846 | 34.56 | 29.52 | 4.79 | | 5.0 |
| 8 | | | | -0.25 | | |
| 9 | MS/MSD1568828 | 34.43 | 29.46 | 4.72 | | 5.0 |
| 10 | | | | -0.25 | | |
| 11 | | | | -0.25 | | |
| 12 | | | | -0.25 | | |
| 13 | | | | -0.25 | | |
| 14 | | | | -0.25 | | |
| 15 | | | | -0.25 | | |
| 16 | | | | -0.25 | | |
| 17 | | | | -0.25 | | |
| 18 | | | | -0.25 | | |
| 19 | | | | -0.25 | | |
| 20 | | | | -0.25 | | |
| 21 | | | | -0.25 | | |

Samples received unpreserved are preserved at a 1:1 ratio, weight to volume with methanol

Balance: Mettler Toledo, VOB01

LCS & MB prepared @ 1:1 ratio MeOH/Silica Sand

MeOH used (Supplier/Lot#): Omnisolv / 64299

Sample Weight = Vial Weight - Tare Weight - 0.25g (label weight)

| | |
|---|---|
| **Stop Time:** | 09:15 |

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR0725\BFB1.D
Injection Date : 7 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 09:28 Total files within period : 26
Sample Directory : C:\INSTARCH\DATA\APR0725\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| PS1 | 1.00 | 1.00 | 1.00 | PRIMING STD. 5.0 ml Purged + IS/S | 7 Apr 2025 | 09:42 |
| CCV1 | 1.00 | 1.00 | 1.00 | 290592,CCV, 0.50/5.00 mg/kg, 5.0 | 7 Apr 2025 | 10:10 |
| LCS1 | 1.00 | 1.00 | 1.00 | 290592,LCSS, 1.0ml Ext/50ml, 0.50 | 7 Apr 2025 | 10:37 |
| IB1 | 1.00 | 1.00 | 1.00 | INSTRUMENT BLANK 5.0 ml DI H2O Purged | 7 Apr 2025 | 11:05 |
| MB1 | 1.00 | 1.00 | 1.00 | 290592,MBS, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 11:32 |
| 1568820 | 1.00 | 1.00 | 1.00 | 290598,1568820, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 16:11 |
| 1568821 | 1.00 | 1.00 | 1.00 | 290598,1568821, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 16:38 |
| 1568822 | 1.00 | 1.00 | 1.00 | 290598,1568822, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 17:07 |
| 1568823 | 1.00 | 1.00 | 1.00 | 290598,1568823, 1.0 ml Ext/50ml, 5.0 | 7 Apr 2025 | 17:34 |
| 1568828 | 1.00 | 1.00 | 1.00 | 290598,1568828, | 7 Apr 2025 | 18:02 |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

8260 ISTD/SSTD 20ug/ml VOC1305
8260 BFB STD. 50ug/ml VOC1304
8260 ICV STD. 100ug/ml VOC1308
8260 CCV/CALIB. 100ug/ml VOC1309

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR2525\BFB1.D
Injection Date : 25 Mar 2025 Log Time Period (hrs) : ALL
Injection Time : 13:41 Total files within period : 19
Sample Directory : C:\INSTARCH\DATA\MAR2525\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| CALS1 | 1.00 | 1.00 | 1.00 | CALIB. PT. 1<br>0.025/0.25 mg/kg, 5. | 25 Mar 2025 | 15:22 |
| CALS2 | 1.00 | 1.00 | 1.00 | CALIB. PT. 2<br>0.050/0.50 mg/kg, 5. | 25 Mar 2025 | 15:50 |
| CALS3 | 1.00 | 1.00 | 1.00 | CALIB. PT. 3<br>0.10/1.00 mg/kg, 5.0 | 25 Mar 2025 | 16:18 |
| CALS4 | 1.00 | 1.00 | 1.00 | CALIB. PT. 4<br>0.25/2.50 mg/kg, 5.0 | 25 Mar 2025 | 16:46 |
| CALS5 | 1.00 | 1.00 | 1.00 | CALIB. PT. 5<br>0.50/5.00 mg/kg, 5.0 | 25 Mar 2025 | 17:14 |
| CALS6 | 1.00 | 1.00 | 1.00 | CALIB. PT. 6<br>1.00/10.0 mg/kg, 5.0 | 25 Mar 2025 | 17:42 |
| CALS7 | 1.00 | 1.00 | 1.00 | CALIB. PT. 7<br>1.50/15.0 mg/kg, 5.0 | 25 Mar 2025 | 18:10 |
| CALS8 | 1.00 | 1.00 | 1.00 | CALIB. PT. 8<br>2.00/20.0 mg/kg, 5.0 | 25 Mar 2025 | 18:38 |
| CALS9 | 1.00 | 1.00 | 1.00 | CALIB. PT. 9<br>4.00/40.0 mg/kg, 5.0 | 25 Mar 2025 | 19:06 |
| ICV1 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF<br>0.50/5.00 mg/kg, 5.0 | 25 Mar 2025 | 20:01 |
| ICV2 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF<br>1.50/15.00 mg/kg, 5. | 25 Mar 2025 | 20:30 |
| ICV2 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF<br>1.50/15.00 mg/kg, 5. | 25 Mar 2025 | 20:30 |
| ICB1 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. BLANK<br>1.0 ml Ext/50ml, 5.0 | 25 Mar 2025 | 22:21 |

8260 ISTD/SSTD 20ug/ml VOC1305
8260 BFB STD. 50ug/ml VOC1304
8260 ICV STD. 100ug/ml VOC1308
8260 CCV/CALIB. 100ug/ml VOC1309

# FVO4-01 Data Review Checklist



| INDEPENDENT DATA REVIEW CHECKLIST | | | Method: GCMS (EPA SW-846 8260C) | | | | |
|---|---|---|---|---|---|---|---|
| **Analysis Date** | **LIMS Run #(s):** | **Analyst/Data Interpreter** | **Independent Reviewer** | **Date of Review** | **Approved?** | | **Instrument** |
| | | | | | Yes | No | |
| 04/07,08/2024 | 290592, 290598 | RLD | DGS | 04/07/2025 | Yes | | VMS4 |

**Instructions:** Complete one checklist per *analytical sequence* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

| Requirement | Acceptance Criteria | Analyst Review | | Independent Review | | Comments |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **I. BFB Tune Check** | | | | | | |
| Was a BFB tune check analyzed with acceptable results? | Relative abundance criteria met? | Yes | | Yes | | |
| **II. Initial Calibration Verification (ICV)** | | | | | | |
| Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)? | Lowest standard at or below RL? | Yes | | Yes | | |
| Were the Average Relative Response Factors (ARRF) acceptable? | ARRF<or= specified limits (<15%D.)see SOP) | Yes | | Yes | | |
| Was a second-source ICV(s) analyzed (for Quadratic Curve)? | Required before sample analyses. | Yes | | Yes | | |
| Were all target compound %Deviation or %Drift acceptable? | %D < 20% or project/program specific | Yes | | Yes | | |
| Was Initial Calibration Blank (ICB) analyzed? | Required before sample analyses. | Yes | | Yes | | |
| Were the ICB results for all target analytes less than the limit of detection (LOD). | <LOD or < project/program specific limits | Yes | | Yes | | |
| Was the Relative Error (%RE) or Relative Standard Error (%RSE) acceptable? (Spreadsheet for compounds using Quadradic or Linear regression curves) | %RE at low point 50-150, %RE at midpoint 80-120, RSE <15% | | No | | No | |
| **III. Continuing Calibration Verification (CCV)** | | | | | | |
| Was an acceptable BFB tune check run at the beginning of every twelve hour shift? | Relative abundance criteria met? | Yes | | Yes | | |
| Was a CCV analyzed after every 12 hour tune check? | Required before sample analyses. | Yes | | Yes | | |
| Were all target compound %Deviation or %Drift acceptable? | %D < 20% or project/program specific | | No | | No | |
| If necessary, were the results for outlying compounds qualified? | | Yes | | Yes | | Affected compounds "Z" flagged. |

| | | | | | | |
|---|---|---|---|---|---|---|
| **IV. Blanks** | | | | | | |
| Was a Method Blank (MB) analyzed prior to analysis of samples? | 1 per 20 samples or project/program specific. | Yes | | Yes | | |
| Were the MB results for all target analytes less than the limit of detection (LOD)? | *All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM) | Yes | | Yes | | |
| If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.? | | | | | | |
| **V. Laboratory Control Spike (LCS)** | | | | | | |
| Was a LCS (and LCSD if needed) analyzed at the required frequency? | 1 per 20 samples or project/program specific. | Yes | | Yes | | |
| Were the LCS (LCSD) recoveries for all analytes within acceptance criteria? | Default 70-130%, or see internally generated limits, or project/program specified limits. | Yes | | Yes | | |
| If applicable, were associated sample detects (and non-detects for low recoveries) qualified? | | | | | | |
| Is the relative percent difference (RPD) for each analyte between the LCS and LSCD (if applicable) acceptable? | Default 20%, or see internally generated limits, or client specific limits. | | | | | |
| **VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)** | | | | | | |
| Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency? | 1 per 20 samples or project/program specific. | Yes | | Yes | | |
| Were the MS/MSD recoveries for all analytes within acceptance criteria? | Default 70-130%, or see internally generated limits, or project/program specified limits. | | No | | No | Affected parent sample results "M" flagged. |
| Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable? | Default 20%, or see internally generated limits, or client specific limits. | | No | | No | Affected parent sample results "Y" flagged. |
| **VII. Sample Analyses** | | | | | | |
| Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV? | | Yes | | Yes | | |
| Were surrogate recoveries for all samples and QC within acceptance criteria? | Default 70-130%, or see internally generated program limits, or client specified limits. | | No | | No | |
| If possible, were the affected samples reanalyzed? | | Yes | | Yes | | |
| **Were reported sample results with failing surrogate recoveries qualified? | | Yes | | Yes | | Failing SSTD = "S" flagged. |
| Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X). | Target upper middle range of calibration curve. | Yes | | Yes | | |
| Did all samples meet hold time and preservation criteria as defined by method/program? | H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply) | Yes | | Yes | | |
| Were all samples and QC injected within 12 hours of BFB tune check? | | Yes | | Yes | | |
| Were internal standard recoveries acceptable relevant to associated ICAL? | Response = -50 to +200%; Ret. time = +/- 30 sec. | | No | | No | Affected samples reanalyzed. |

| VIII. Records and Reporting | | | | | | |
|---|---|---|---|---|---|---|
| Is sequence file / injection log present in the data package? | | Yes | | Yes | | |
| Were all data, calculations, and values verified in LIMS (including removal of non-detections) upon completion of data capture? | | Yes | | Yes | | |
| Were manual integrations performed correctly? | Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. | Yes | | Yes | | |
| Was the rational for the manual integration verified? | | Yes | | Yes | | |
| Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet? | | Yes | | Yes | | |

ᵏNon-Applicable Yes/No Cells Are Left Blank*

Comments:

# Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS032525.M
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR0825\BFB1.D
Injection Date : 8 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 08:52 Total files within period : 20
Sample Directory : C:\INSTARCH\DATA\APR0825\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| CCV1 | 1.00 | 1.00 | 1.00 | 290622,CCV, 0.50/5.00 mg/kg, 5.0 | 8 Apr 2025 | 09:35 |
| LCS1 | 1.00 | 1.00 | 1.00 | 290622,LCSS, 1.0ml Ext/50ml, 0.50 | 8 Apr 2025 | 10:03 |
| MB-CCB1 | 1.00 | 1.00 | 1.00 | 290622,MBS, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 10:59 |
| 1568822R | 1.00 | 1.00 | 1.00 | 290598,1568822, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 12:51 |
| 1568823R | 1.00 | 1.00 | 1.00 | 290598,1568823, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 13:19 |
| 1568828R | 1.00 | 1.00 | 1.00 | 290598,1568828, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 13:46 |
| 1568830R | 1.00 | 1.00 | 1.00 | 290598,1568830, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 14:14 |
| 1568846R | 1.00 | 1.00 | 1.00 | 290598,1568846, 1.0 ml Ext/50ml, 5.0 | 8 Apr 2025 | 14:42 |
| 1568828M | 1.00 | 1.00 | 1.00 | 290598,MSS1568828, 1.0ml Ext/50ml, 0.50 | 8 Apr 2025 | 17:01 |
| 1568828S | 1.00 | 1.00 | 1.00 | 290598,MSDS1568828, | 8 Apr 2025 | 17:29 |
| ##6&ts | ts‡dzdz | ts‡dzdz | ts‡dzdz | tƒqdzdztƒƒ‡##6&‡ dz‡lsdzYls‡dzdz ÍÇYËÇ‡ ls‡dz | ¬ !ÐÒ tƒdztƒls | tsẅkẅlsẅ |

8260 ISTD/SSTD 20ug/ml VOC1305
8260 BFB STD. 50ug/ml VOC1304
8260 ICV STD. 100ug/ml VOC1308
8260 CCV/CALIB. 100ug/ml VOC1309

# FVO4-01 Data Review Checklist



| INDEPENDENT DATA REVIEW CHECKLIST | | | Method: GCMS (EPA SW-846 8260C) | | | | |
|---|---|---|---|---|---|---|---|
| **Analysis Date** | **LIMS Run #(s):** | **Analyst/Data Interpreter** | **Independent Reviewer** | **Date of Review** | **Approved?** | | **Instrument** |
| | | | | | Yes | No | |
| 04/08/2025 | 290597, 290622 | RLD | DGS | 04/10/2025 | Yes | | VMS4 |

**Instructions:** Complete one checklist per *analytical sequence* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

| Requirement | Acceptance Criteria | Analyst Review | | Independent Review | | Comments |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **I. BFB Tune Check** | | | | | | |
| Was a BFB tune check analyzed with acceptable results? | Relative abundance criteria met? | Yes | | Yes | | |
| **II. Initial Calibration Verification (ICV)** | | | | | | |
| Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)? | Lowest standard at or below RL? | Yes | | Yes | | |
| Were the Average Relative Response Factors (ARRF) acceptable? | ARRF<or= specified limits (<15%D.)see SOP) | Yes | | Yes | | |
| Was a second-source ICV(s) analyzed (for Quadratic Curve)? | Required before sample analyses. | Yes | | Yes | | |
| Were all target compound %Deviation or %Drift acceptable? | %D < 20% or project/program specific | Yes | | Yes | | |
| Was Initial Calibration Blank (ICB) analyzed? | Required before sample analyses. | Yes | | Yes | | |
| Were the ICB results for all target analytes less than the limit of detection (LOD). | <LOD or < project/program specific limits | Yes | | Yes | | |
| Was the Relative Error (%RE) or Relative Standard Error (%RSE) acceptable? (Spreadsheet for compounds using Quadradic or Linear regression curves) | %RE at low point 50-150, %RE at midpoint 80-120, RSE <15% | | No | | No | |
| **III. Continuing Calibration Verification (CCV)** | | | | | | |
| Was an acceptable BFB tune check run at the beginning of every twelve hour shift? | Relative abundance criteria met? | Yes | | Yes | | |
| Was a CCV analyzed after every 12 hour tune check? | Required before sample analyses. | Yes | | Yes | | |
| Were all target compound %Deviation or %Drift acceptable? | %D < 20% or project/program specific | | No | | No | |
| If necessary, were the results for outlying compounds qualified? | | Yes | | Yes | | Affected compounds "Z" flagged. |

| | | | | | | |
|---|---|---|---|---|---|---|
| **IV. Blanks** | | | | | | |
| Was a Method Blank (MB) analyzed prior to analysis of samples? | 1 per 20 samples or project/program specific. | Yes | | Yes | | |
| Were the MB results for all target analytes less than the limit of detection (LOD)? | *All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM) | Yes | | Yes | | |
| If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.? | | | | | | |
| **V. Laboratory Control Spike (LCS)** | | | | | | |
| Was a LCS (and LCSD if needed) analyzed at the required frequency? | 1 per 20 samples or project/program specific. | Yes | | Yes | | |
| Were the LCS (LCSD) recoveries for all analytes within acceptance criteria? | Default 70-130%, or see internally generated limits, or project/program specified limits. | Yes | | Yes | | |
| If applicable, were associated sample detects (and non-detects for low recoveries) qualified? | | | | | | |
| Is the relative percent difference (RPD) for each analyte between the LCS and LSCD (if applicable) acceptable? | Default 20%, or see internally generated limits, or client specific limits. | | | | | |
| **VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)** | | | | | | |
| Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency? | 1 per 20 samples or project/program specific. | Yes | | Yes | | |
| Were the MS/MSD recoveries for all analytes within acceptance criteria? | Default 70-130%, or see internally generated limits, or project/program specified limits. | | No | | No | Affected parent sample results "M" flagged. |
| Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable? | Default 20%, or see internally generated limits, or client specific limits. | | No | | No | Affected parent sample results "Y" flagged. |
| **VII. Sample Analyses** | | | | | | |
| Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV? | | Yes | | Yes | | |
| Were surrogate recoveries for all samples and QC within acceptance criteria? | Default 70-130%, or see internally generated program limits, or client specified limits. | Yes | | Yes | | |
| If possible, were the affected samples reanalyzed? | | | | | | |
| **Were reported sample results with failing surrogate recoveries qualified? | | | | | | |
| Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X). | Target upper middle range of calibration curve. | | | | | |
| Did all samples meet hold time and preservation criteria as defined by method/program? | H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply) | Yes | | Yes | | |
| Were all samples and QC injected within 12 hours of BFB tune check? | | Yes | | Yes | | |
| Were internal standard recoveries acceptable relevant to associated ICAL? | Response = -50 to +200%; Ret. time = +/- 30 sec. | Yes | | Yes | | |

| VIII. Records and Reporting | | | | | | |
|---|---|---|---|---|---|---|
| Is sequence file / injection log present in the data package? | | Yes | | Yes | | |
| Were all data, calculations, and values verified in LIMS (including removal of non-detections) upon completion of data capture? | | Yes | | Yes | | |
| Were manual integrations performed correctly? | Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. | Yes | | Yes | | |
| Was the rational for the manual integration verified? | | Yes | | Yes | | |
| Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet? | | Yes | | Yes | | |

ᵏNon-Applicable Yes/No Cells Are Left Blank*

Comments:

# V 8260 QSM LL SOIL 5.0 Analytical Run
# 290584 on 4/15/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1571903 | | | | | | V 8260 QSM LL SOIL 5.0 | | | | |
| | | | | BFB | | | | 0 | | | |
| | 1571905 | | | | | | V 8260 QSM LL SOIL 5.0 | | | | |
| | | | | CCV | | | | 0 | | | |
| | 1569341 | | | | | | VOC 8260 QSM LL 5.0 | | | | |
| | | | | LCSS | | | | 138271 | | | |
| | 1569340 | | | | | | VOC 8260 QSM LL 5.0 | | | | |
| | | | | MBS | | | | 138271 | | | |
| 194024 | 1568823 | | 4/1/2025 12:10 | | HDR, INC | DDMT-DFW | VOC 8260 QSM LL 5.0 | | S | 4 | |
| | | SB-111-5-DFW | | | | | | 138271 | | | |
| 194024 | 1568822 | | 4/1/2025 11:35 | | HDR, INC | DDMT-DFW | VOC 8260 QSM LL 5.0 | | S | 4 | |
| | | SB-111-0-DFW | | | | | | 138271 | | | |
| 194024 | 1568820 | | 4/1/2025 10:30 | | HDR, INC | DDMT-DFW | VOC 8260 QSM LL 5.0 | | S | 4 | |
| | | SB-112-0-DFW | | | | | | 138271 | | | |
| 194024 | 1568846 | | 4/1/2025 13:10 | | HDR, INC | DDMT-DFW | VOC 8260 QSM LL 5.0 | | S | 4 | |
| | | DUP-1-DFW | | | | | | 138271 | | | |
| 194024 | 1568828 | | 4/1/2025 14:25 | | HDR, INC | DDMT-DFW | VOC 8260 QSM LL 5.0 | | S | 4 | |
| | | SB-113-0-DFW | | Designated MS/MSD | | | | 138271 | | | |
| 194024 | 1568830 | | 4/1/2025 15:10 | | HDR, INC | DDMT-DFW | VOC 8260 QSM LL 5.0 | | S | 4 | |
| | | SB-113-5-DFW | | | | | | 138271 | | | |
| | 1569338 | | 4/1/2025 14:25 | | | | VOC 8260 QSM LL 5.0 | | | | |
| | | SB-113-0-DFW | | MSS 1568828 | | | | 138271 | | | |
| | 1569339 | | 4/1/2025 14:25 | | | | VOC 8260 QSM LL 5.0 | | | | |
| | | SB-113-0-DFW | | MSDS 1569338 | | | | 138271 | | | |
| | 1572388 | | | | | | V 8260 QSM LL SOIL 5.0 | | | | |
| | | | | CCVF | | | | 0 | | | |

**13** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution:

# PrepWrkSht
# on 4/14/2025

Prep Batch **138,271** Date Prepped: 4/10/2025 Prepped By:: RLD

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1569340 | MBS | | VOC 8260 QSM LL 5.0 | SOLID | 5.0 | 5.00 | | | |
| | 1569341 | LCSS | | VOC 8260 QSM LL 5.0 | SOLID | 5.0 | 5.00 | | | |
| 194024 | 1568820 | | | VOC 8260 QSM LL 5.0 | SOIL | 5.0 | 5.27 | | 4 | |
| | 1568822 | | | VOC 8260 QSM LL 5.0 | SOIL | 5.0 | 5.02 | | 4 | |
| | 1568823 | | | VOC 8260 QSM LL 5.0 | SOIL | 5.0 | 5.74 | | 4 | |
| | 1568828 | sample designated for QC | | VOC 8260 QSM LL 5.0 | SOIL | 5.0 | 4.25 | | 4 | |
| | 1568830 | | | VOC 8260 QSM LL 5.0 | SOIL | 5.0 | 4.95 | | 4 | |
| | 1568846 | | | VOC 8260 QSM LL 5.0 | SOIL | 5.0 | 4.94 | | 4 | |
| | 1569338 | MSS | 1568828 | VOC 8260 QSM LL 5.0 | SOIL | 5.0 | 4.46 | | | |
| | 1569339 | MSDS | 1569338 | VOC 8260 QSM LL 5.0 | SOIL | 5.0 | 5.07 | | | |

Notes:_____

# V 8260 QSM LL SOIL 5.0 Analytical Run
# 290583 on 4/15/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568823 | | 4/1/2025 12:10 | | HDR, INC | DDMT-DFW | VOC 8260 LL TXYL QSM | | S | 4 | |
| | | SB-111-5-DFW | | | | | | 138270 | | | |
| 194024 | 1568822 | | 4/1/2025 11:35 | | HDR, INC | DDMT-DFW | VOC 8260 LL TXYL QSM | | S | 4 | |
| | | SB-111-0-DFW | | | | | | 138270 | | | |
| 194024 | 1568820 | | 4/1/2025 10:30 | | HDR, INC | DDMT-DFW | VOC 8260 LL TXYL QSM | | S | 4 | |
| | | SB-112-0-DFW | | | | | | 138270 | | | |
| 194024 | 1568846 | | 4/1/2025 13:10 | | HDR, INC | DDMT-DFW | VOC 8260 LL TXYL QSM | | S | 4 | |
| | | DUP-1-DFW | | | | | | 138270 | | | |
| 194024 | 1568828 | | 4/1/2025 14:25 | | HDR, INC | DDMT-DFW | VOC 8260 LL TXYL QSM | | S | 4 | |
| | | SB-113-0-DFW | | Designated MS/MSD | | | | 138270 | | | |
| 194024 | 1568830 | | 4/1/2025 15:10 | | HDR, INC | DDMT-DFW | VOC 8260 LL TXYL QSM | | S | 4 | |
| | | SB-113-5-DFW | | | | | | 138270 | | | |

**6** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: Volatiles C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmpD1.tmp Page 1 of 1

# PrepWrkSht
# on 4/14/2025

Prep Batch **138,270** Date Prepped: 4/10/2025 Prepped By:: RLD

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568820 | | | VOC 8260 LL TXYL QSM | SOIL | 5.0 | 5.27 | | 4 | |
| | 1568821 | | | VOC 8260 LL TXYL QSM | SOIL | 5.0 | 16.41 | | 4 | |
| | 1568822 | | | VOC 8260 LL TXYL QSM | SOIL | 5.0 | 5.02 | | 4 | |
| | 1568823 | | | VOC 8260 LL TXYL QSM | SOIL | 5.0 | 5.74 | | 4 | |
| | 1568828 | sample designated for QC | | VOC 8260 LL TXYL QSM | SOIL | 5.0 | 4.25 | | 4 | |
| | 1568830 | | | VOC 8260 LL TXYL QSM | SOIL | 5.0 | 4.95 | | 4 | |
| | 1568846 | | | VOC 8260 LL TXYL QSM | SOIL | 5.0 | 4.94 | | 4 | |

Notes:_____

# V 8260 QSM LL SOIL 5.0 Analytical Run
# # 290582 on 4/15/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568823 | | 4/1/2025 12:10 | | HDR, INC | DDMT-DFW | VOC 8260 LL TDCE QSM | | S | 4 | |
| | | SB-111-5-DFW | | | | | | 138269 | | | |
| 194024 | 1568822 | | 4/1/2025 11:35 | | HDR, INC | DDMT-DFW | VOC 8260 LL TDCE QSM | | S | 4 | |
| | | SB-111-0-DFW | | | | | | 138269 | | | |
| 194024 | 1568820 | | 4/1/2025 10:30 | | HDR, INC | DDMT-DFW | VOC 8260 LL TDCE QSM | | S | 4 | |
| | | SB-112-0-DFW | | | | | | 138269 | | | |
| 194024 | 1568846 | | 4/1/2025 13:10 | | HDR, INC | DDMT-DFW | VOC 8260 LL TDCE QSM | | S | 4 | |
| | | DUP-1-DFW | | | | | | 138269 | | | |
| 194024 | 1568828 | | 4/1/2025 14:25 | | HDR, INC | DDMT-DFW | VOC 8260 LL TDCE QSM | | S | 4 | |
| | | SB-113-0-DFW | | Designated MS/MSD | | | | 138269 | | | |
| 194024 | 1568830 | | 4/1/2025 15:10 | | HDR, INC | DDMT-DFW | VOC 8260 LL TDCE QSM | | S | 4 | |
| | | SB-113-5-DFW | | | | | | 138269 | | | |

**6** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: Volatiles C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmp40E9.tmp Page 1 of 1

# PrepWrkSht
# on 4/14/2025

Prep Batch **138,269** Date Prepped: 4/10/2025 Prepped By:: RLD

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568820 | | | VOC 8260 LL TDCE QSM | SOIL | 5.0 | 5.27 | | 4 | |
| | 1568822 | | | VOC 8260 LL TDCE QSM | SOIL | 5.0 | 5.02 | | 4 | |
| | 1568823 | | | VOC 8260 LL TDCE QSM | SOIL | 5.0 | 5.74 | | 4 | |
| | 1568828 | sample designated for QC | | VOC 8260 LL TDCE QSM | SOIL | 5.0 | 4.25 | | 4 | |
| | 1568830 | | | VOC 8260 LL TDCE QSM | SOIL | 5.0 | 4.95 | | 4 | |
| | 1568846 | | | VOC 8260 LL TDCE QSM | SOIL | 5.0 | 4.94 | | 4 | |

Notes:_____

**FVO3,4-08**

# VOC SOILS LOW LEVEL - PREP BENCHSHEET

| | |
|---|---|
| **Prep Batch #:** | 138269/138270/138271 |
| **Method:** | 8260C |
| **Analyst:** | RLD |
| **Date:** | 04/10/2025 |
| **Start Time:** | 11:55 |

| **NON-LUST** |
|---|
| Balance# VOB01 |

| | Sample ID | Sample Weight B (g) | Sample Weight C (g) | Sample Weight A (g) | | Sodium Bisulfate Solution (mL) |
|---|---|---|---|---|---|---|
| 1 | 1568820 | 4.97 | | 5.27 | | 5.0 |
| 2 | 1568821 | 14.27 | | 16.41 | | 5.0 |
| 3 | 1568822 | 5.41 | | 5.02 | | 5.0 |
| 4 | 1568823 | 5.73 | | 5.74 | | 5.0 |
| 5 | 1568828 | 4.38 | | 4.25 | | 5.0 |
| 6 | 1568830 | 5.07 | | 4.95 | | 5.0 |
| 7 | 1568846 | 4.44 | | 4.94 | | 5.0 |
| 8 | | -0.25 | | -0.25 | | |
| 9 | MSS1568828 | 4.10 | | 4.46 | | 5.0 |
| 10 | MSDS1568828 | 4.89 | | 5.07 | | 5.0 |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

| **Stop Time:** | 12:05 |
|---|---|

| | |
|---|---|
| Sodium Bisulfate Solution (0.5g NaHSO4 / 5.0mL of DI H2O): | VOC1283 |
| Sample Wt = Total Wt - Jar Wt - 0.25 (Label Wt.) | |

# VOC TICS Analytical Run
# 290578 on 4/21/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568820 | SB-112-0-DFW | 4/1/2025 10:30 | | HDR, INC | DDMT-DFW | VOC TICS | | S | 4 | |
| 194024 | 1568821 | SB-112-5-DFW | 4/1/2025 11:10 | | HDR, INC | DDMT-DFW | VOC TICS | | S | 4 | |
| 194024 | 1568822 | SB-111-0-DFW | 4/1/2025 11:35 | | HDR, INC | DDMT-DFW | VOC TICS | | S | 4 | |
| 194024 | 1568823 | SB-111-5-DFW | 4/1/2025 12:10 | | HDR, INC | DDMT-DFW | VOC TICS | | S | 4 | |
| 194024 | 1568828 | SB-113-0-DFW | 4/1/2025 14:25 | Designated MS/MSD | HDR, INC | DDMT-DFW | VOC TICS | | S | 4 | |
| 194024 | 1568830 | SB-113-5-DFW | 4/1/2025 15:10 | | HDR, INC | DDMT-DFW | VOC TICS | | S | 4 | |
| 194024 | 1568846 | DUP-1-DFW | 4/1/2025 13:10 | | HDR, INC | DDMT-DFW | VOC TICS | | S | 4 | |

**7** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: Volatiles C:\Windows\TEMP\tmpA49.tmp

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS041025.M
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR1125\BFB1.D
Injection Date : 11 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 07:34 Total files within period : 26
Sample Directory : C:\INSTARCH\DATA\APR1125\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name Misc Info | Date Time |
|---|---|---|---|---|---|
| PS1 | 1.00 | 1.00 | 1.00 | PRIMING STD. 15.0 ml Purged + IS/ | 11 Apr 2025 07:50 |
| CCV1 | 1.00 | 1.00 | 1.00 | 290584,CCV, 0.010/0.100 mg/kg, 1 | 11 Apr 2025 08:19 |
| LCS1 | 1.00 | 1.00 | 1.00 | 290584,LCSS, 5.00g, 0.010/0.100 m | 11 Apr 2025 08:48 |
| IB1 | 1.00 | 1.00 | 1.00 | INSTRUMENT BLANK 15.0 ml DI H2O Purge | 11 Apr 2025 09:17 |
| MB1 | 1.00 | 1.00 | 1.00 | 290584,MBS, 5.00g, 15.0 ml DI H2 | 11 Apr 2025 09:46 |
| 1568823 | 1.00 | 1.00 | 1.00 | 290584,1568823, 5.74g, 15.0 ml DI H2 | 11 Apr 2025 11:11 |
| 1568822 | 1.00 | 1.00 | 1.00 | 290584,1568822, 5.02g, 15.0 ml DI H2 | 11 Apr 2025 11:40 |
| 1568820 | 1.00 | 1.00 | 1.00 | 290584,1568820, 5.27g, 15.0 ml DI H2 | 11 Apr 2025 12:09 |
| IB2 | 1.00 | 1.00 | 1.00 | INSTRUMENT BLANK 15.0 ml DI H2O Purge | 11 Apr 2025 12:39 |
| 1568846 | 1.00 | 1.00 | 1.00 | 290584,1568846, 4.94g, 15.0 ml DI H2 | 11 Apr 2025 13:08 |
| 1568828 | 1.00 | 1.00 | 1.00 | 290584,1568828, 4.25g, 15.0 ml DI H2 | 11 Apr 2025 13:37 |
| 1568830 | 1.00 | 1.00 | 1.00 | 290584,1568830, 4.95g, 15.0 ml DI H2 | 11 Apr 2025 14:06 |
| 1568828M | 1.00 | 1.00 | 1.00 | 290584,MSS1568828,, 4.46g, 0.010/0.100 m | 11 Apr 2025 14:35 |
| 1568828S | 1.00 | 1.00 | 1.00 | 290584,MSDS1568828,, 5.07g, 0.010/0.100 m | 11 Apr 2025 15:04 |
| CCVF1 | 1.00 | 1.00 | 1.00 | 290584,CCVF, 0.010/0.100 mg/kg, 1 | 11 Apr 2025 15:33 |

Over-range
Report

8260 ISTD/SSTD 20ug/ml VOC1305
8260 BFB STD. 50ug/ml VOC1304
8260 ICV STD. 100ug/ml VOC1310
8260 CCV/CALIB. 100ug/ml VOC1311

# FVO4-01 Data Review Checklist

| INDEPENDENT DATA REVIEW CHECKLIST | | | Method: GCMS (EPA SW-846 8260C) | | | | |
|---|---|---|---|---|---|---|---|
| **Analysis Date** | **LIMS Run #(s):** | **Analyst/Data Interpreter** | **Independent Reviewer** | **Date of Review** | **Approved?** | | **Instrument** |
| | | | | | Yes | No | |
| 04/11/2025 | 290578, 290585, 290583, 290584, 290587 | RLD | DGS | 04/15/2025 | Yes | | VMS4 |

**Instructions:** Complete one checklist per *analytical sequence* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

| Requirement | Acceptance Criteria | Analyst Review | | Independent Review | | Comments |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **I. BFB Tune Check** | | | | | | |
| Was a BFB tune check analyzed with acceptable results? | Relative abundance criteria met? | Yes | | Yes | | |
| **II. Initial Calibration Verification (ICV)** | | | | | | |
| Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)? | Lowest standard at or below RL? | Yes | | Yes | | |
| Were the Average Relative Response Factors (ARRF) acceptable? | ARRF<or= specified limits (<15%D.)see SOP) | Yes | | Yes | | |
| Was a second-source ICV(s) analyzed (for Quadratic Curve)? | Required before sample analyses. | Yes | | Yes | | |
| Were all target compound %Deviation or %Drift acceptable? | %D < 20% or project/program specific | Yes | | Yes | | |
| Was Initial Calibration Blank (ICB) analyzed? | Required before sample analyses. | Yes | | Yes | | |
| Were the ICB results for all target analytes less than the limit of detection (LOD). | <LOD or < project/program specific limits | Yes | | Yes | | |
| Was the Relative Error (%RE) or Relative Standard Error (%RSE) acceptable? (Spreadsheet for compounds using Quadradic or Linear regression curves) | %RE at low point 50-150, %RE at midpoint 80-120, RSE <15% | | No | | No | |
| **III. Continuing Calibration Verification (CCV)** | | | | | | |
| Was an acceptable BFB tune check run at the beginning of every twelve hour shift? | Relative abundance criteria met? | Yes | | Yes | | |
| Was a CCV analyzed after every 12 hour tune check? | Required before sample analyses. | Yes | | Yes | | |
| Were all target compound %Deviation or %Drift acceptable? | %D < 20% or project/program specific | | No | | No | Affected compounds "Z" flagged. |
| If necessary, were the results for outlying compounds qualified? | | Yes | | Yes | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **IV. Blanks** | | | | | | |
| Was a Method Blank (MB) analyzed prior to analysis of samples? | 1 per 20 samples or project/program specific. | Yes | | Yes | | |
| Were the MB results for all target analytes less than the limit of detection (LOD)? | *All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM) | Yes | | Yes | | |
| If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.? | | | | | | |
| **V. Laboratory Control Spike (LCS)** | | | | | | |
| Was a LCS (and LCSD if needed) analyzed at the required frequency? | 1 per 20 samples or project/program specific. | Yes | | Yes | | |
| Were the LCS (LCSD) recoveries for all analytes within acceptance criteria? | Default 70-130%, or see internally generated limits, or project/program specified limits. | Yes | | Yes | | |
| If applicable, were associated sample detects (and non-detects for low recoveries) qualified? | | | | | | |
| Is the relative percent difference (RPD) for each analyte between the LCS and LSCD (if applicable) acceptable? | Default 20%, or see internally generated limits, or client specific limits. | | | | | |
| **VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)** | | | | | | |
| Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency? | 1 per 20 samples or project/program specific. | Yes | | Yes | | |
| Were the MS/MSD recoveries for all analytes within acceptance criteria? | Default 70-130%, or see internally generated limits, or project/program specified limits. | | No | | No | Affected parent sample results "M" flagged. |
| Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable? | Default 20%, or see internally generated limits, or client specific limits. | | No | | No | Affected parent sample results "Y" flagged. |
| **VII. Sample Analyses** | | | | | | |
| Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV? | | Yes | | Yes | | |
| Were surrogate recoveries for all samples and QC within acceptance criteria? | Default 70-130%, or see internally generated program limits, or client specified limits. | | No | | No | |
| If possible, were the affected samples reanalyzed? | | Yes | | Yes | | |
| **Were reported sample results with failing surrogate recoveries qualified? | | Yes | | Yes | | Affected SSTD "S" flagged. |
| Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X). | Target upper middle range of calibration curve. | Yes | | Yes | | |
| Did all samples meet hold time and preservation criteria as defined by method/program? | H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply) | Yes | | Yes | | |
| Were all samples and QC injected within 12 hours of BFB tune check? | | Yes | | Yes | | |
| Were internal standard recoveries acceptable relevant to associated ICAL? | Response = -50 to +200%; Ret. time = +/- 30 sec. | Yes | | Yes | | |

| VIII. Records and Reporting | | | | | | |
|---|---|---|---|---|---|---|
| Is sequence file / injection log present in the data package? | | Yes | | Yes | | |
| Were all data, calculations, and values verified in LIMS (including removal of non-detections) upon completion of data capture? | | Yes | | Yes | | |
| Were manual integrations performed correctly? | Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. | Yes | | Yes | | |
| Was the rational for the manual integration verified? | | Yes | | Yes | | |
| Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet? | | Yes | | Yes | | |

ᵏNon-Applicable Yes/No Cells Are Left Blank*

Comments:

# V 8260 QSM LL H2O 5.0 Analytical Run
# 290576 on 4/16/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | | QC TYPE (Parent Sample) | | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1572490 | | | | | | | | V 8260 QSM LL H2O 5.0 | | | | |
| | | | | | BFB | | | | | 0 | | | |
| | 1572493 | | | | | | | | V 8260 QSM LL H2O 5.0 | | | | |
| | | | | | LCSW | | | | | 0 | | | |
| | 1572497 | | | | | | | | V 8260 QSM LL H2O 5.0 | | | | |
| | | | | | CCV | | | | | 0 | | | |
| | 1572515 | | | | | | | | V 8260 QSM LL H2O 5.0 | | | | |
| | | | | | LCSDW | 1572493 | | | | 0 | | | |
| | 1572498 | | | | | | | | V 8260 QSM LL H2O 5.0 | | | | |
| | | | | | MBW | | | | | 0 | | | |
| 194024 | 1568827 | | 4/1/2025 | 10:00 | | | HDR, INC | DDMT-DFW | VOC 8260 QSM LL 5.0 | | M | 4 | |
| | | TB-01-DFW | | | | | | | | | | | |
| 194024 | 1568824 | | 4/1/2025 | 13:50 | | | HDR, INC | DDMT-DFW | VOC 8260 QSM LL 5.0 | | GW | 4 | |
| | | RB-01-DFW | | | | | | | | | | | |
| | 1572950 | | | | | | | | V 8260 QSM LL H2O 5.0 | | | | |
| | | | | | CCVF | | | | | 0 | | | |

**8** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution:

# V 8260 QSM LL H2O 5.0 Analytical Run
# 290575 on 4/16/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568827 | TB-01-DFW | 4/1/2025 10:00 | | HDR, INC | DDMT-DFW | VOC 8260 LL TXYL QSM | | M | 4 | |
| 194024 | 1568824 | RB-01-DFW | 4/1/2025 13:50 | | HDR, INC | DDMT-DFW | VOC 8260 LL TXYL QSM | | GW | 4 | |

**2** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: Volatiles C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmp54A.tmp

V 8260 QSM LL H2O 5.0 Analytical Run
# 290574 on 4/16/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568827 | TB-01-DFW | 4/1/2025 | 10:00 | HDR, INC | DDMT-DFW | VOC 8260 LL TDCE QSM | | M | 4 | |
| 194024 | 1568824 | RB-01-DFW | 4/1/2025 | 13:50 | HDR, INC | DDMT-DFW | VOC 8260 LL TDCE QSM | | GW | 4 | |

**2** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: Volatiles C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmp6289.tmp Page 1 of 1

# VOC TICS Analytical Run
# 290572 on 4/16/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568827 | TB-01-DFW | 4/1/2025 10:00 | | HDR, INC | DDMT-DFW | VOC TICS | | M | 4 | |
| 194024 | 1568824 | RB-01-DFW | 4/1/2025 13:50 | | HDR, INC | DDMT-DFW | VOC TICS | | GW | 4 | |

**2** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: Volatiles C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmp4AC0.tmp Page 1 of 1

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW041325.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR1425\BFB1.D
Injection Date : 14 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 07:49 Total files within period : 46
Sample Directory : C:\INSTARCH\DATA\APR1425\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| PS1 | 1.00 | 1.00 | 1.00 | PRIMING STD. 25.0 ml Purged + IS/ | 14 Apr 2025 | 08:04 |
| CCV-LCS1 | 1.00 | 1.00 | 1.00 | 290576,LCSW, 4.00/40.00 ug/L, 25. | 14 Apr 2025 | 08:32 |
| LCSD1 | 1.00 | 1.00 | 1.00 | 290576,LCSDW, 4.00/40.00 ug/L, 25. | 14 Apr 2025 | 09:00 |
| IB1 | 1.00 | 1.00 | 1.00 | INSTRUMENT BLANK 25.0 ml DI H2O Purge | 14 Apr 2025 | 09:29 |
| IB2 | 1.00 | 1.00 | 1.00 | INSTRUMENT BLANK 25.0 ml DI H2O Purge | 14 Apr 2025 | 09:57 |
| IB3 | 1.00 | 1.00 | 1.00 | INSTRUMENT BLANK 25.0 ml DI H2O Purge | 14 Apr 2025 | 10:25 |
| MB1 | 1.00 | 1.00 | 1.00 | 290576,MBW, pH<2, 25.0 ml DI H2O | 14 Apr 2025 | 10:53 |
| 1568827 | 1.00 | 1.00 | 1.00 | 290576,1568827, pH<2, 25.0 ml Purged | 14 Apr 2025 | 12:18 |
| tslslzΞΞtƒfŋ | ts1ȡȡ | ts1ȡȡ | ts1ȡȡ | tƒʯȡlsʷlz1tslslzΞΞtƒfŋ1 Ð( ˛tƒ1 tƒls1ȡ | tsfŋ | !ÐÒ tƒȡtƒls |
| ##6&ts | ts1ȡȡ | ts1ȡȡ | ts1ȡȡ | tƒʯȡlsʷlz1##6&1 fŋ1ȡȡYfŋȡ1ȡȡ | tsfŋ | !ÐÒ tƒȡtƒls |

8260 ISTD/SSTD 20ug/ml VOC1305
8260 BFB STD. 50ug/ml VOC1304
8260 ICV STD. 100ug/ml VOC1310
8260 CCV/CALIB. 100ug/ml VOC1311

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW041325.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR1325\BFB1.D
Injection Date : 13 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 08:05 Total files within period : 20
Sample Directory : C:\INSTARCH\DATA\APR1325\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| LLCALW1 | 1.00 | 1.00 | 1.00 | CALIB. PT. 1 0.10/1.00 ug/L, 25.0 | 13 Apr 2025 | 09:45 |
| LLCALW2 | 1.00 | 1.00 | 1.00 | CALIB. PT. 2 0.20/2.00 ug/L, 25.0 | 13 Apr 2025 | 10:13 |
| LLCALW3 | 1.00 | 1.00 | 1.00 | CALIB. PT. 3 0.50/5.00 ug/L, 25.0 | 13 Apr 2025 | 10:41 |
| LLCALW4 | 1.00 | 1.00 | 1.00 | CALIB. PT. 4 1.00/10.00 ug/L, 25. | 13 Apr 2025 | 11:09 |
| LLCALW5 | 1.00 | 1.00 | 1.00 | CALIB. PT. 5 2.00/20.00 ug/L, 25. | 13 Apr 2025 | 11:38 |
| LLCALW6 | 1.00 | 1.00 | 1.00 | CALIB. PT. 6 4.00/40.00 ug/L, 25. | 13 Apr 2025 | 12:06 |
| LLCALW7 | 1.00 | 1.00 | 1.00 | CALIB. PT. 7 6.00/60.00 ug/L, 25. | 13 Apr 2025 | 12:34 |
| LLCALW8 | 1.00 | 1.00 | 1.00 | CALIB. PT. 8 8.00/80.00 ug/L, 25. | 13 Apr 2025 | 13:02 |
| LLCALW9 | 1.00 | 1.00 | 1.00 | CALIB. PT. 9 16.00/160 ug/L, 25.0 | 13 Apr 2025 | 13:30 |
| ICV1 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF 4.00/40.00 ug/L, 25. | 13 Apr 2025 | 14:27 |
| ICV2 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. VERIF 8.00/80.00 ug/L, 25. | 13 Apr 2025 | 14:55 |
| ICB1 | 1.00 | 1.00 | 1.00 | INITIAL CALIB. BLANK pH<2, 25.0 ml DI H2O | 13 Apr 2025 | 17:16 |

8260 ISTD/SSTD 20ug/ml VOC1305
8260 BFB STD. 50ug/ml VOC1304
8260 ICV STD. 100ug/ml VOC1310
8260 CCV/CALIB. 100ug/ml VOC1311

# FVO4-01 Data Review Checklist

| INDEPENDENT DATA REVIEW CHECKLIST | | | Method: GCMS (EPA SW-846 8260C) | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Analysis Date** | **LIMS Run #(s):** | **Analyst/Data Interpreter** | **Independent Reviewer** | **Date of Review** | **Approved?** | | | **Instrument** |
| | | | | | Yes | No | | |
| 04/14/2025 | 290476, 290572, 290574, 290575, 290576, 290823, 290824, 290865 | RLD | DGS | 04/16/2025 | Yes | | | VMS4 |

**Instructions:** Complete one checklist per *analytical sequence* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

| Requirement | Acceptance Criteria | Analyst Review | | Independent Review | | Comments |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **I. BFB Tune Check** | | | | | | |
| Was a BFB tune check analyzed with acceptable results? | Relative abundance criteria met? | Yes | | Yes | | |
| **II. Initial Calibration Verification (ICV)** | | | | | | |
| Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)? | Lowest standard at or below RL? | Yes | | Yes | | |
| Were the Average Relative Response Factors (ARRF) acceptable? | ARRF<or= specified limits (<15%D.)see SOP) | Yes | | Yes | | |
| Was a second-source ICV(s) analyzed (for Quadratic Curve)? | Required before sample analyses. | Yes | | Yes | | |
| Were all target compound %Deviation or %Drift acceptable? | %D < 20% or project/program specific | Yes | | Yes | | |
| Was Initial Calibration Blank (ICB) analyzed? | Required before sample analyses. | Yes | | Yes | | |
| Were the ICB results for all target analytes less than the limit of detection (LOD). | <LOD or < project/program specific limits | Yes | | Yes | | |
| Was the Relative Error (%RE) or Relative Standard Error (%RSE) acceptable? (Spreadsheet for compounds using Quadradic or Linear regression curves) | %RE at low point 50-150, %RE at midpoint 80-120, RSE <15% | | No | | No | |
| **III. Continuing Calibration Verification (CCV)** | | | | | | |
| Was an acceptable BFB tune check run at the beginning of every twelve hour shift? | Relative abundance criteria met? | Yes | | Yes | | |
| Was a CCV analyzed after every 12 hour tune check? | Required before sample analyses. | Yes | | Yes | | |
| Were all target compound %Deviation or %Drift acceptable? | %D < 20% or project/program specific | | No | | No | |
| If necessary, were the results for outlying compounds qualified? | | Yes | | Yes | | Affected compound "Z" flagged. |

| | | | | | | |
|---|---|---|---|---|---|---|
| **IV. Blanks** | | | | | | |
| Was a Method Blank (MB) analyzed prior to analysis of samples? | 1 per 20 samples or project/program specific. | Yes | | Yes | | |
| Were the MB results for all target analytes less than the limit of detection (LOD)? | *All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM) | Yes | | Yes | | |
| If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.? | | | | | | |
| **V. Laboratory Control Spike (LCS)** | | | | | | |
| Was a LCS (and LCSD if needed) analyzed at the required frequency? | 1 per 20 samples or project/program specific. | Yes | | Yes | | |
| Were the LCS (LCSD) recoveries for all analytes within acceptance criteria? | Default 70-130%, or see internally generated limits, or project/program specified limits. | Yes | | Yes | | |
| If applicable, were associated sample detects (and non-detects for low recoveries) qualified? | | | | | | |
| Is the relative percent difference (RPD) for each analyte between the LCS and LSCD (if applicable) acceptable? | Default 20%, or see internally generated limits, or client specific limits. | Yes | | Yes | | |
| **VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)** | | | | | | |
| Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency? | 1 per 20 samples or project/program specific. | N/A | | N/A | | |
| Were the MS/MSD recoveries for all analytes within acceptance criteria? | Default 70-130%, or see internally generated limits, or project/program specified limits. | N/A | | N/A | | |
| Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable? | Default 20%, or see internally generated limits, or client specific limits. | N/A | | N/A | | |
| **VII. Sample Analyses** | | | | | | |
| Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV? | | Yes | | Yes | | |
| Were surrogate recoveries for all samples and QC within acceptance criteria? | Default 70-130%, or see internally generated program limits, or client specified limits. | Yes | | Yes | | |
| If possible, were the affected samples reanalyzed? | | | | | | |
| **Were reported sample results with failing surrogate recoveries qualified? | | | | | | |
| Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X). | Target upper middle range of calibration curve. | Yes | | Yes | | |
| Did all samples meet hold time and preservation criteria as defined by method/program? | H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply) | Yes | | Yes | | |
| Were all samples and QC injected within 12 hours of BFB tune check? | | Yes | | Yes | | |
| Were internal standard recoveries acceptable relevant to associated ICAL? | Response = -50 to +200%; Ret. time = +/- 30 sec. | Yes | | Yes | | |

| VIII. Records and Reporting | | | | | | |
|---|---|---|---|---|---|---|
| Is sequence file / injection log present in the data package? | | Yes | | Yes | | |
| Were all data, calculations, and values verified in LIMS (including removal of non-detections) upon completion of data capture? | | Yes | | Yes | | |
| Were manual integrations performed correctly? | Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. | Yes | | Yes | | |
| Was the rational for the manual integration verified? | | Yes | | Yes | | |
| Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet? | | Yes | | Yes | | |

ᵏNon-Applicable Yes/No Cells Are Left Blank*

Comments:

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1311 | 8260 ICV/Spiking. Std. | 150uL of 2,000 ug/mL VOC Mix V1091, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1100, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1095, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1116, and 300uL of 5,000 ug/mL Acro Mix V1114 into 1650uL of MeOH. | MeOH / OMNISOLV / 64 | 100 ug/mL | 04/10/2025 | 04/17/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1312 | 8260 CCV/Calib. Std. | 150uL of 2,000 ug/mL VOC Mix V1111, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1101, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1096, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1117, and 300uL of 5000 ug/mL Acro Mix V1115 into 1650uL of MeOH. | MeOH / OMNISOLV / 64 | 100 ug/mL | 04/10/2025 | 04/17/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1308 | 8260 ICV/Spiking. Std. | 150uL of 2,000 ug/mL VOC Mix V1091, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1100, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1095, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1105, and 300uL of 5,000 ug/mL Acro Mix V1108 into 1650uL of MeOH. | MeOH / OMNISOLV / 64 | 100 ug/mL | 03/25/2025 | 03/31/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1309 | 8260 CCV/Calib. Std. | 150uL of 2,000 ug/mL VOC Mix V1111, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1101, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1096, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1106, and 300uL of 5000 ug/mL Acro Mix V1109 into 1650uL of MeOH. | MeOH / OMNISOLV / 64 | 100 ug/mL | 03/25/2025 | 03/31/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1304 | 8260 BFB Std. | 75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V1104 into 2925uL of MeOH. | MeOH / OMNISOLV / 6 | 50 ug/mL | 03/17/2025 | 04/17/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1305 | 8260 ISTD/SSTD | 200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V1049 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-$_{d4}$ Std. V1094 into 25mL of MeOH. | MeOH / OMNISOLV / 6 | 20 ug/mL | 03/17/2025 | 04/17/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1306 | 8260 ICV/Spiking. Std. | 150uL of 2,000 ug/mL VOC Mix V1091, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1100, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1095, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1105, and 300uL of 5,000 ug/mL Acro Mix V1108 into 1650uL of MeOH. | MeOH / OMNISOLV / 6 | 100 ug/mL | 03/17/2025 | 03/24/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1307 | 8260 CCV/Calib. Std. | 150uL of 2,000 ug/mL VOC Mix V1111, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1101, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1096, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1106, and 300uL of 5000 ug/mL Acro Mix V1109 into 1650uL of MeOH. | MeOH / OMNISOLV / 6 | 100 ug/mL | 03/17/2025 | 03/24/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1299 | 8260 ICV/Spiking. Std. | 150uL of 2,000 ug/mL VOC Mix V1091, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1100, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1095, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1105, and 300uL of 5,000 ug/mL Acro Mix V1108 into 1650uL of MeOH. | MeOH / OMNISOLV / 64 | 100 ug/mL | 03/06/2025 | 03/13/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1300 | 8260 CCV/Calib. Std. | 150uL of 2,000 ug/mL VOC Mix V1111, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1101, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1099, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1106, and 300uL of 5000 ug/mL Acro Mix V1109 into 1650uL of MeOH. | MeOH / OMNISOLV / 64 | 100 ug/mL | 03/06/2025 | 03/13/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1297 | 8260 ICV/Spiking. Std. | 150uL of 2,000 ug/mL VOC Mix V1091, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1100, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1095, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1105, and 300uL of 5,000 ug/mL Acro Mix V1108 into 1650uL of MeOH. | MeOH / OMNISOLV / 64 | 100 ug/mL | 02/25/2025 | 03/04/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1298 | 8260 CCV/Calib. Std. | 150uL of 2,000 ug/mL VOC Mix V1111, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1101, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1096, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1106, and 300uL of 5000 ug/mL Acro Mix V1109 into 1650uL of MeOH. | MeOH / OMNISOLV / 64 | 100 ug/mL | 02/25/2025 | 03/04/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1293 | 8260 BFB Std. | 75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V1104 into 2925uL of MeOH. | MeOH / OMNISOLV / 6 | 50 ug/mL | 02/13/2025 | 03/13/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1294 | 8260 ISTD/SSTD | 200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V1049 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-$_{d4}$ Std. V1094 into 25mL of MeOH. | MeOH / OMNISOLV / 6 | 20 ug/mL | 02/13/2025 | 03/13/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1295 | 8260 ICV/Spiking. Std. | 150uL of 2,000 ug/mL VOC Mix V1091, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1100, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1095, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1105, and 300uL of 5,000 ug/mL Acro Mix V1108 into 1650uL of MeOH. | MeOH / OMNISOLV / 6 | 100 ug/mL | 02/13/2025 | 02/20/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1296 | 8260 CCV/Calib. Std. | 150uL of 2,000 ug/mL VOC Mix V1087, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1101, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1096, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1106, and 300uL of 5000 ug/mL Acro Mix V1109 into 1650uL of MeOH. | MeOH / OMNISOLV / 6 | 100 ug/mL | 02/13/2025 | 02/20/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1291 | 8260 ICV/Spiking. Std. | 150uL of 2,000 ug/mL VOC Mix V1091, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1100, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1095, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1105, and 300uL of 5,000 ug/mL Acro Mix V1108 into 1650uL of MeOH. | MeOH / OMNISOLV / 64 | 100 ug/mL | 02/04/2025 | 02/11/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1292 | 8260 CCV/Calib. Std. | 150uL of 2,000 ug/mL VOC Mix V1087, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1101, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1096, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1106, and 300uL of 5000 ug/mL Acro Mix V1109 into 1650uL of MeOH. | MeOH / OMNISOLV / 64 | 100 ug/mL | 02/04/2025 | 02/11/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1285 | 8260 BFB Std. | 75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V1104 into 2925uL of MeOH. | MeOH / OMNISOLV / 6 | 50 ug/mL | 01/15/2025 | 02/25/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1286 | 8260 ISTD/SSTD | 200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V1049 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-$_{d4}$ Std. V1094 into 25mL of MeOH. | MeOH / OMNISOLV / 6 | 20 ug/mL | 01/15/2025 | 02/25/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1287 | 8260 ICV/Spiking. Std. | 150uL of 2,000 ug/mL VOC Mix V1091, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1100, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1095, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1105, and 300uL of 5,000 ug/mL Acro Mix V1108 into 1650uL of MeOH. | MeOH / OMNISOLV / 6 | 100 ug/mL | 01/15/2025 | 01/22/2025 | RLD |

| Standard ID # | Standard Prepped | Prep | Solvent / Lot # | Final Concentration | Prep Date | Expiration Date | Analyst |
|---|---|---|---|---|---|---|---|
| VOC1288 | 8260 CCV/Calib. Std. | 150uL of 2,000 ug/mL VOC Mix V1087, 300uL of 1,000/10,000 ug/mL VOC Mix1 V1101, 300uL of 1,000/50,000 ug/mL VOC Mix2 V1096, 300uL of 10,000/20,000 ug/mL VOC Mix3 V1106, and 300uL of 5000 ug/mL Acro Mix V1109 into 1650uL of MeOH. | MeOH / OMNISOLV / 6 | 100 ug/mL | 01/15/2025 | 01/22/2025 | RLD |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1118 | 8260 VOC Mix | AccuStandard | M-502-10X-PAK | 224121113 |
| **Concentration** | **Neat (% purity) or Solvent** | **Expiration Date** | **Date Received** | **Analyst** |
| 2,000 ug/mL | MeOH | 12/11/2027 | 04/17/2025 | RLD |
| # of Ampules/Units: | 5 | Comments: | Used for 8260 ICV/Spiking standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1111 | 8260 VOC Mix | Agilent | DWM-588-1 | 0006818605 |
| **Concentration** | **Neat (% purity) or Solvent** | **Expiration Date** | **Date Received** | **Analyst** |
| 2,000 ug/mL | MeOH | 11/30/2027 | 1/23/2025 | RLD |
| # of Ampules/Units: | 4 | Comments: | Used for 8260 CCV/Calib. standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1108 | Acrolein | Restek | 30645 | A0219685 |
| **Concentration** | **Neat (% purity) or Solvent** | **Expiration Date** | **Date Received** | **Analyst** |
| 5000 ug/ml | Methanol | 03/31/2025 | 01/02/2025 | RLD |
| # of Ampules/Units: | 2 | Comments: | Used for 8260 ICV/Spiking standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1109 | Acrolein | Restek | 30645 | A0219809 |
| **Concentration** | **Neat (% purity) or Solvent** | **Expiration Date** | **Date Received** | **Analyst** |
| 5000 ug/ml | Methanol | 03/31/2025 | 01/02/2025 | RLD |
| # of Ampules/Units: | 2 | Comments: | Used for 8260 CCV/Calib. standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1104 | 4-Bromofluorobenzene | Agilent | STS-110N | 0006629793 |
| Concentration | Neat (% purity) or Solvent | Expiration Date | Date Received | Analyst |
| 2,000 ug/mL | MeOH | 09/30/2028 | 12/04/2024 | RLD |
| # of Ampules/Units: | 4 | Comments: | Used for 8015/8260 IS/SS preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1105 | VOC 8260 Mix 3 | AccuStandard | S-23837-04 | 224071481-01 |
| Concentration | Neat (% purity) or Solvent | Expiration Date | Date Received | Analyst |
| 10,000 - 20,000 ug/mL | MeOH | 03/31/2025 | 12/13/2024 | RLD |
| # of Ampules/Units: | 5 | Comments: | Used for 8260 ICV/Spiking standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1106 | VOC 8260 Mix 3 | AccuStandard | S-23837-04 | 224111487 |
| Concentration | Neat (% purity) or Solvent | Expiration Date | Date Received | Analyst |
| 10,000 - 20,000 ug/mL | MeOH | 04/09/2025 | 12/13/2024 | RLD |
| # of Ampules/Units: | 5 | Comments: | Used for 8260 CCV/Calib. standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1102 | Acrolein Standard | Restek | 30645 | A0218331 |
| **Concentration** | **Neat (% purity) or Solvent** | **Expiration Date** | **Date Received** | **Analyst** |
| 5000 ug/ml | Methanol | 01/31/2025 | 11/26/2024 | RLD |
| # of Ampules/Units: | 2 | Comments: | Used for 8260 ICV/Spiking Standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1103 | Acrolein Standard | Restek | 30645 | A0218536 |
| **Concentration** | **Neat (% purity) or Solvent** | **Expiration Date** | **Date Received** | **Analyst** |
| 5000 ug/ml | Methanol | 01/31/2025 | 11/26/2024 | RLD |
| # of Ampules/Units: | 2 | Comments: | Used for 8260 CCV/Calib. Standard preparation. | |

LSVO1_02_VOC
VOLATILES STANDARDS LOGBOOK
*LOGBOOK CREATED 06/10/2020*
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| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1100 | VOC 8260 Mix 1 | AccuStandard | S-23837-01-R3 | 223091302 |
| Concentration | Neat (% purity) or Solvent | Expiration Date | Date Received | Analyst |
| 1,000 - 10,000 ug/mL | MeOH | 11/02/2025 | 11/30/2024 | RLD |
| # of Ampules/Units: | 5 | Comments: | Used for 8260 ICV/Spiking standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1101 | VOC 8260 Mix 1 | AccuStandard | S-23837-01-R3 | 112091404 |
| Concentration | Neat (% purity) or Solvent | Expiration Date | Date Received | Analyst |
| 1,000 - 10,000 ug/mL | MeOH | 11/02/2025 | 11/30/2024 | RLD |
| # of Ampules/Units: | 5 | Comments: | Used for 8260 CCV/Calib.standard preparation. | |

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LSVO1_02_VOC
VOLATILES STANDARDS LOGBOOK
*LOGBOOK CREATED 06/10/2020*
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| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1093 | 4-Bromofluorobenzene | Agilent | STS-110N | 0006629793 |
| Concentration | Neat (% purity) or Solvent | Expiration Date | Date Received | Analyst |
| 2,000 ug/mL | MeOH | 09/30/2028 | 09/23/2024 | RLD |
| # of Ampules/Units: | 4 | Comments: | Used for 8260 BFB working standard and 8015 surrogate standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1094 | 1,2-Dichlorobenzene-$_{d4}$ | Agilent | STS-210-1 | 0006810962 |
| Concentration | Neat (% purity) or Solvent | Expiration Date | Date Received | Analyst |
| 2,000 ug/mL | MeOH | 09/30/2028 | 09/23/2024 | RLD |
| # of Ampules/Units: | 4 | Comments: | Used for 8260 IS/SS and GRO SSTD preparation. | |

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| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1091 | 8260 VOC Mix | AccuStandard | M-502-10X-PAK | 224071295 |
| **Concentration** | **Neat (% purity) or Solvent** | **Expiration Date** | **Date Received** | **Analyst** |
| 2,000 ug/mL | MeOH | 08/02/2027 | 08/28/2024 | RLD |
| # of Ampules/Units: | 5 | Comments: | Used for 8260 ICV/Spiking standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1087 | 8260 VOC Mix | Agilent | DWM-588-1 | 0006777931 |
| **Concentration** | **Neat (% purity) or Solvent** | **Expiration Date** | **Date Received** | **Analyst** |
| 2,000 ug/mL | MeOH | 02/28/2027 | 07/01/2024 | RLD |
| # of Ampules/Units: | 4 | Comments: | Used for 8260 CCV/Calib. Standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1079 | VOC 8260 Mix 1 | AccuStandard | S-23837-01-R3 | 223091265 |
| Concentration | Neat (% purity) or Solvent | Expiration Date | Date Received | Analyst |
| 1,000 - 10,000 ug/mL | MeOH | 10/26/2025 | 03/28/2024 | RLD |
| # of Ampules/Units: | 5 | Comments: | Used for 8260 ICV/Spiking standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1080 | VOC 8260 Mix 1 | AccuStandard | S-23837-01-R3 | 223091274 |
| Concentration | Neat (% purity) or Solvent | Expiration Date | Date Received | Analyst |
| 1,000 - 10,000 ug/mL | MeOH | 10/26/2025 | 03/28/2024 | RLD |
| # of Ampules/Units: | 5 | Comments: | Used for 8260 CCV/Calib. standard preparation | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1081 | VOC 8260 Mix 2 | AccuStandard | S-23837-02-R2 | 223091302 |
| Concentration | Neat (% purity) or Solvent | Expiration Date | Date Received | Analyst |
| 1,000 - 50,000 ug/mL | MeOH | 11/02/2025 | 03/28/2024 | RLD |
| # of Ampules/Units: | 5 | Comments: | Used for 8260 ICV/Spiking standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1082 | VOC 8260 Mix 2 | AccuStandard | S-23837-02-R2 | 223091401 |
| Concentration | Neat (% purity) or Solvent | Expiration Date | Date Received | Analyst |
| 1,000 - 50,000 ug/mL | MeOH | 11/02/2025 | 03/28/2024 | RLD |
| # of Ampules/Units: | 5 | Comments: | Used for 8260 CCV/Calib. standard preparation. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1063 | 1,2-Dichlorobenzene-$_{d4}$ | Agilent | STS-210-1 | 0006625676 |
| **Concentration** | **Neat (% purity) or Solvent** | **Expiration Date** | **Date Received** | **Analyst** |
| 2,000 ug/mL | MeOH | 08/31/2025 | 11/17/2023 | RLD |
| # of Ampules/Units: | 4 | Comments: | Used to prepare surrogate standard mix for 8260/524.2 IS/SS mix. | |

| Standard ID # | Compound/Standard Name | Supplier/Manufacturer | Standard Part # | Standard Lot # |
|---|---|---|---|---|
| V1049 | 8260 ISTD/SSTD Mix | Agilent | STM-540 | 0006740334 |
| **Concentration** | **Neat (% purity) or Solvent** | **Expiration Date** | **Date Received** | **Analyst** |
| 2,500 ug/mL | MeOH | 05/31/2026 | 06/23/2023 | RLD |
| # of Ampules/Units: | 4 | Comments: | Used for 8260 ISTD/SSTD preparation. | |

# SEMI-VOLATILE ORGANIC ANALYSIS
# QUALITY CONTROL SUMMARY
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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.58 (g/L) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 5 |
| Date & Time Analyzed: | 04/11/2025 / 16:51 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|---|
| 50-32-8 | Benzo(a)pyrene | 342 | J | V | 220 | 560 | 1100 | 1100 |
| 205-99-2 | Benzo(b)fluoranthene | 564 | J | V | 280 | 560 | 1100 | 1100 |
| 191-24-2 | Benzo(g,h,i)perylene | 560 | U | V | 220 | 560 | 1100 | 1100 |
| 207-08-9 | Benzo(k)fluoranthene | 560 | U | V | 280 | 560 | 1100 | 1100 |
| 53-70-3 | Dibenzo(a,h)anthracene | 560 | U | V | 280 | 560 | 1100 | 1100 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 560 | U | V | 220 | 560 | 1100 | 1100 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.58 (g/L) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 22:20 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 220 | U | 92 | 220 | 440 | 440 |
| 95-50-1 | 1,2-Dichlorobenzene | 110 | U | 44 | 110 | 220 | 220 |
| 541-73-1 | 1,3-Dichlorobenzene | 110 | U | 44 | 110 | 220 | 220 |
| 106-46-7 | 1,4-Dichlorobenzene | 110 | U | 44 | 110 | 220 | 220 |
| 90-12-0 | 1-Methylnaphthalene | 40.8 | J | 28 | 110 | 220 | 220 |
| 95-95-4 | 2,4,5-Trichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 88-06-2 | 2,4,6-Trichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 120-83-2 | 2,4-Dichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 105-67-9 | 2,4-Dimethylphenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 51-28-5 | 2,4-Dinitrophenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 121-14-2 | 2,4-Dinitrotoluene | 110 | U | 56 | 110 | 220 | 220 |
| 87-65-0 | 2,6-Dichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 606-20-2 | 2,6-Dinitrotoluene | 110 | U | 56 | 110 | 220 | 220 |
| 91-58-7 | 2-Chloronaphthalene | 110 | U | 44 | 110 | 220 | 220 |
| 95-57-8 | 2-Chlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 91-57-6 | 2-Methylnaphthalene | 63.9 | J | 28 | 110 | 220 | 220 |
| 95-48-7 | 2-Methylphenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 88-74-4 | 2-Nitroaniline | 220 | U | 89 | 220 | 440 | 440 |
| 88-75-5 | 2-Nitrophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 1319-77-3 | 3 & 4-Methylphenol | 1100 | U | 330 | 1100 | 2200 | 2200 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U | 89 | 220 | 440 | 440 |
| 99-09-2 | 3-Nitroaniline | 110 | U | 44 | 110 | 220 | 220 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.58 (g/L) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 22:20 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 110 | U | 56 | 110 | 220 | 220 |
| 59-50-7 | 4-Chloro-3-methylphenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 106-47-8 | 4-Chloroaniline | 220 | U | 56 | 220 | 440 | 440 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 110 | U | 28 | 110 | 220 | 220 |
| 100-01-6 | 4-Nitroaniline | 110 | U | 44 | 110 | 220 | 220 |
| 100-02-7 | 4-Nitrophenol | 560 | U | 330 | 560 | 1100 | 1100 |
| 83-32-9 | Acenaphthene | 220 | U | 78 | 220 | 440 | 440 |
| 208-96-8 | Acenaphthylene | 110 | U | 56 | 110 | 220 | 220 |
| 62-53-3 | Aniline | 220 | U | 110 | 220 | 440 | 440 |
| 120-12-7 | Anthracene | 82.6 | J | 44 | 110 | 220 | 220 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 220 | U | 56 | 220 | 440 | 440 |
| 92-87-5 | Benzidine | 2200 | U Z | 1100 | 2200 | 4400 | 4400 |
| 56-55-3 | Benzo(a)anthracene | 249 | | 44 | 110 | 220 | 220 |
| 65-85-0 | Benzoic acid | 1000 | U | 440 | 1000 | 2000 | 2000 |
| 100-51-6 | Benzyl alcohol | 220 | U | 56 | 220 | 440 | 440 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 110 | U | 44 | 110 | 220 | 220 |
| 111-44-4 | Bis(2-chloroethyl)ether | 110 | U | 28 | 110 | 220 | 220 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 110 | U | 56 | 110 | 220 | 220 |
| 85-68-7 | Butylbenzylphthalate | 220 | U | 89 | 220 | 440 | 440 |
| 86-74-8 | Carbazole | 67.4 | J | 67 | 220 | 440 | 440 |
| 218-01-9 | Chrysene | 266 | | 44 | 110 | 220 | 220 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.58 (g/L) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 22:20 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 132-64-9 | Dibenzofuran | 110 | U | 44 | 110 | 220 | 220 |
| 84-66-2 | Diethylphthalate | 110 | U | 44 | 110 | 220 | 220 |
| 131-11-3 | Dimethylphthalate | 110 | U | 28 | 110 | 220 | 220 |
| 84-74-2 | Di-n-butylphthalate | 220 | U | 56 | 220 | 440 | 440 |
| 117-84-0 | Di-n-octylphthalate | 110 | U | 44 | 110 | 220 | 220 |
| 206-44-0 | Fluoranthene | 655 | | 44 | 110 | 220 | 220 |
| 86-73-7 | Fluorene | 110 | U | 28 | 110 | 220 | 220 |
| 118-74-1 | Hexachlorobenzene | 110 | U | 56 | 110 | 220 | 220 |
| 87-68-3 | Hexachlorobutadiene | 110 | U | 28 | 110 | 220 | 220 |
| 77-47-4 | Hexachlorocyclopentadiene | 110 | U Q,Z | 56 | 110 | 220 | 220 |
| 67-72-1 | Hexachloroethane | 110 | U | 28 | 110 | 220 | 220 |
| 78-59-1 | Isophorone | 110 | U | 44 | 110 | 220 | 220 |
| 91-20-3 | Naphthalene | 62.0 | J | 44 | 110 | 220 | 220 |
| 98-95-3 | Nitrobenzene | 110 | U | 44 | 110 | 220 | 220 |
| 62-75-9 | N-Nitrosodimethylamine | 220 | U | 87 | 220 | 440 | 440 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 110 | U | 56 | 110 | 220 | 220 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 220 | U | 110 | 220 | 440 | 440 |
| 930-55-2 | N-Nitrosopyrrolidine | 110 | U | 44 | 110 | 220 | 220 |
| 87-86-5 | Pentachlorophenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 85-01-8 | Phenanthrene | 398 | | 44 | 110 | 220 | 220 |
| 108-95-2 | Phenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 129-00-0 | Pyrene | 535 | | 56 | 110 | 220 | 220 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.58 (g/L) | CTL Sample ID: | 1568846 |
| % Solids: | 85.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 22:20 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 110-86-1 | Pyridine | 220 | U | 78 | 220 | 440 | 440 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **DUP-2-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.84 (g/L) | CTL Sample ID: | 1568832 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 00:40 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 2200 | U | 900 | 2200 | 4300 | 4300 |
| 95-50-1 | 1,2-Dichlorobenzene | 1100 | U | 430 | 1100 | 2200 | 2200 |
| 541-73-1 | 1,3-Dichlorobenzene | 1100 | U | 430 | 1100 | 2200 | 2200 |
| 106-46-7 | 1,4-Dichlorobenzene | 1100 | U | 430 | 1100 | 2200 | 2200 |
| 90-12-0 | 1-Methylnaphthalene | 791 | J | 270 | 1100 | 2200 | 2200 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5400 | U | 1600 | 5400 | 11000 | 11000 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5400 | U | 1600 | 5400 | 11000 | 11000 |
| 120-83-2 | 2,4-Dichlorophenol | 5400 | U | 1600 | 5400 | 11000 | 11000 |
| 105-67-9 | 2,4-Dimethylphenol | 5400 | U | 1600 | 5400 | 11000 | 11000 |
| 51-28-5 | 2,4-Dinitrophenol | 5400 | U | 2200 | 5400 | 11000 | 11000 |
| 121-14-2 | 2,4-Dinitrotoluene | 1100 | U | 540 | 1100 | 2200 | 2200 |
| 87-65-0 | 2,6-Dichlorophenol | 5400 | U | 1600 | 5400 | 11000 | 11000 |
| 606-20-2 | 2,6-Dinitrotoluene | 1100 | U | 540 | 1100 | 2200 | 2200 |
| 91-58-7 | 2-Chloronaphthalene | 1100 | U | 430 | 1100 | 2200 | 2200 |
| 95-57-8 | 2-Chlorophenol | 5400 | U | 1600 | 5400 | 11000 | 11000 |
| 91-57-6 | 2-Methylnaphthalene | 956 | J | 270 | 1100 | 2200 | 2200 |
| 95-48-7 | 2-Methylphenol | 5400 | U | 2200 | 5400 | 11000 | 11000 |
| 88-74-4 | 2-Nitroaniline | 2200 | U | 870 | 2200 | 4300 | 4300 |
| 88-75-5 | 2-Nitrophenol | 5400 | U | 1600 | 5400 | 11000 | 11000 |
| 1319-77-3 | 3 & 4-Methylphenol | 11000 | U | 3200 | 11000 | 22000 | 22000 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2200 | U | 870 | 2200 | 4300 | 4300 |
| 99-09-2 | 3-Nitroaniline | 1100 | U | 430 | 1100 | 2200 | 2200 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **DUP-2-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.84 (g/L) | CTL Sample ID: | 1568832 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 00:40 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5400 | U | 2200 | 5400 | 11000 | 11000 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 1100 | U | 540 | 1100 | 2200 | 2200 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5400 | U | 2200 | 5400 | 11000 | 11000 |
| 106-47-8 | 4-Chloroaniline | 2200 | U | 540 | 2200 | 4300 | 4300 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1100 | U | 270 | 1100 | 2200 | 2200 |
| 100-01-6 | 4-Nitroaniline | 1100 | U | 430 | 1100 | 2200 | 2200 |
| 100-02-7 | 4-Nitrophenol | 5400 | U | 3200 | 5400 | 11000 | 11000 |
| 83-32-9 | Acenaphthene | 9410 | | 760 | 2200 | 4300 | 4300 |
| 208-96-8 | Acenaphthylene | 1100 | U | 540 | 1100 | 2200 | 2200 |
| 62-53-3 | Aniline | 2200 | U | 1100 | 2200 | 4300 | 4300 |
| 120-12-7 | Anthracene | 15600 | | 430 | 1100 | 2200 | 2200 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 2200 | U | 540 | 2200 | 4300 | 4300 |
| 92-87-5 | Benzidine | 22000 | U Z | 10000 | 22000 | 43000 | 43000 |
| 56-55-3 | Benzo(a)anthracene | 51100 | | 430 | 1100 | 2200 | 2200 |
| 50-32-8 | Benzo(a)pyrene | 51800 | | 430 | 1100 | 2200 | 2200 |
| 191-24-2 | Benzo(g,h,i)perylene | 13900 | Z | 430 | 1100 | 2200 | 2200 |
| 207-08-9 | Benzo(k)fluoranthene | 31300 | | 540 | 1100 | 2200 | 2200 |
| 65-85-0 | Benzoic acid | 9700 | U | 4300 | 9700 | 19000 | 19000 |
| 100-51-6 | Benzyl alcohol | 2200 | U | 540 | 2200 | 4300 | 4300 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1100 | U | 430 | 1100 | 2200 | 2200 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1100 | U | 270 | 1100 | 2200 | 2200 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1100 | U | 540 | 1100 | 2200 | 2200 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **DUP-2-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.84 (g/L) | CTL Sample ID: | 1568832 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 00:40 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 85-68-7 | Butylbenzylphthalate | 2200 | U | 870 | 2200 | 4300 | 4300 |
| 86-74-8 | Carbazole | 17700 | | 650 | 2200 | 4300 | 4300 |
| 218-01-9 | Chrysene | 52100 | | 430 | 1100 | 2200 | 2200 |
| 53-70-3 | Dibenzo(a,h)anthracene | 4360 | | 540 | 1100 | 2200 | 2200 |
| 132-64-9 | Dibenzofuran | 4260 | | 430 | 1100 | 2200 | 2200 |
| 84-66-2 | Diethylphthalate | 1100 | U | 430 | 1100 | 2200 | 2200 |
| 131-11-3 | Dimethylphthalate | 1100 | U | 270 | 1100 | 2200 | 2200 |
| 84-74-2 | Di-n-butylphthalate | 2200 | U | 540 | 2200 | 4300 | 4300 |
| 117-84-0 | Di-n-octylphthalate | 1100 | U | 430 | 1100 | 2200 | 2200 |
| 86-73-7 | Fluorene | 6860 | | 270 | 1100 | 2200 | 2200 |
| 118-74-1 | Hexachlorobenzene | 1100 | U | 540 | 1100 | 2200 | 2200 |
| 87-68-3 | Hexachlorobutadiene | 1100 | U | 270 | 1100 | 2200 | 2200 |
| 77-47-4 | Hexachlorocyclopentadiene | 1100 | U Q,Z | 540 | 1100 | 2200 | 2200 |
| 67-72-1 | Hexachloroethane | 1100 | U | 270 | 1100 | 2200 | 2200 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 14800 | | 430 | 1100 | 2200 | 2200 |
| 78-59-1 | Isophorone | 1100 | U | 430 | 1100 | 2200 | 2200 |
| 91-20-3 | Naphthalene | 1640 | J | 430 | 1100 | 2200 | 2200 |
| 98-95-3 | Nitrobenzene | 1100 | U | 430 | 1100 | 2200 | 2200 |
| 62-75-9 | N-Nitrosodimethylamine | 2200 | U | 840 | 2200 | 4300 | 4300 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1100 | U | 540 | 1100 | 2200 | 2200 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 2200 | U | 1100 | 2200 | 4300 | 4300 |
| 930-55-2 | N-Nitrosopyrrolidine | 1100 | U | 430 | 1100 | 2200 | 2200 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**DUP-2-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.84 (g/L) | CTL Sample ID: | 1568832 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 00:40 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 87-86-5 | Pentachlorophenol | 5400 | U | 2200 | 5400 | 11000 | 11000 |
| 108-95-2 | Phenol | 5400 | U | 2200 | 5400 | 11000 | 11000 |
| 110-86-1 | Pyridine | 2200 | U | 760 | 2200 | 4300 | 4300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **DUP-2-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.84 (g/L) | CTL Sample ID: | 1568832 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 50 |
| Date & Time Analyzed: | 04/11/2025 / 19:09 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 205-99-2 | Benzo(b)fluoranthene | 99300 | | 2700 | 5400 | 11000 | 11000 |
| 206-44-0 | Fluoranthene | 172000 | | 2200 | 5400 | 11000 | 11000 |
| 85-01-8 | Phenanthrene | 113000 | | 2200 | 5400 | 11000 | 11000 |
| 129-00-0 | Pyrene | 122000 | | 2700 | 5400 | 11000 | 11000 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**RB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | GROUND WATER | SDG No.: | 194024 |
| Sample wt/vol: | (g/L) | CTL Sample ID: | 1568824 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/07/2025 / 11:10 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138277 |
| Analytical Run #: | 290647 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:44 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040725 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.97 | U | 0.28 | 0.97 | 1.9 | 1.9 |
| 95-50-1 | 1,2-Dichlorobenzene | 0.97 | U | 0.22 | 0.97 | 1.9 | 1.9 |
| 541-73-1 | 1,3-Dichlorobenzene | 0.97 | U | 0.23 | 0.97 | 1.9 | 1.9 |
| 106-46-7 | 1,4-Dichlorobenzene | 0.97 | U | 0.26 | 0.97 | 1.9 | 1.9 |
| 90-12-0 | 1-Methylnaphthalene | 0.97 | U | 0.24 | 0.97 | 1.9 | 1.9 |
| 95-95-4 | 2,4,5-Trichlorophenol | 4.9 | U | 1.8 | 4.9 | 9.7 | 9.7 |
| 88-06-2 | 2,4,6-Trichlorophenol | 4.9 | U | 1.7 | 4.9 | 9.7 | 9.7 |
| 120-83-2 | 2,4-Dichlorophenol | 4.9 | U | 1.3 | 4.9 | 9.7 | 9.7 |
| 105-67-9 | 2,4-Dimethylphenol | 4.9 | U | 1.6 | 4.9 | 9.7 | 9.7 |
| 51-28-5 | 2,4-Dinitrophenol | 9.7 | U | 3.2 | 9.7 | 11 | 11 |
| 121-14-2 | 2,4-Dinitrotoluene | 0.97 | U | 0.24 | 0.97 | 1.9 | 1.9 |
| 87-65-0 | 2,6-Dichlorophenol | 4.9 | U | 1.7 | 4.9 | 9.7 | 9.7 |
| 606-20-2 | 2,6-Dinitrotoluene | 0.97 | U | 0.29 | 0.97 | 1.9 | 1.9 |
| 91-58-7 | 2-Chloronaphthalene | 0.97 | U | 0.30 | 0.97 | 1.9 | 1.9 |
| 95-57-8 | 2-Chlorophenol | 4.9 | U | 1.4 | 4.9 | 9.7 | 9.7 |
| 91-57-6 | 2-Methylnaphthalene | 0.97 | U | 0.23 | 0.97 | 1.9 | 1.9 |
| 95-48-7 | 2-Methylphenol | 4.9 | U | 1.5 | 4.9 | 9.7 | 9.7 |
| 88-74-4 | 2-Nitroaniline | 1.9 | U | 0.63 | 1.9 | 3.9 | 3.9 |
| 88-75-5 | 2-Nitrophenol | 4.9 | U | 1.3 | 4.9 | 9.7 | 9.7 |
| 1319-77-3 | 3 & 4-Methylphenol | 8.7 | U | 3.3 | 8.7 | 17 | 17 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2.4 | U | 0.64 | 2.4 | 4.9 | 4.9 |
| 99-09-2 | 3-Nitroaniline | 1.9 | U | 0.97 | 1.9 | 3.9 | 3.9 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **RB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | GROUND WATER | SDG No.: | 194024 |
| Sample wt/vol: | (g/L) | CTL Sample ID: | 1568824 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/07/2025 / 11:10 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138277 |
| Analytical Run #: | 290647 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:44 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040725 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 4.9 | U | 1.3 | 4.9 | 9.7 | 9.7 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 0.97 | U | 0.24 | 0.97 | 1.9 | 1.9 |
| 59-50-7 | 4-Chloro-3-methylphenol | 4.9 | U | 1.3 | 4.9 | 9.7 | 9.7 |
| 106-47-8 | 4-Chloroaniline | 0.97 | U | 0.41 | 0.97 | 3.9 | 3.9 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 0.97 | U | 0.34 | 0.97 | 1.9 | 1.9 |
| 100-01-6 | 4-Nitroaniline | 0.97 | U | 0.50 | 0.97 | 3.9 | 3.9 |
| 100-02-7 | 4-Nitrophenol | 4.9 | U | 1.9 | 4.9 | 9.7 | 9.7 |
| 83-32-9 | Acenaphthene | 0.97 | U | 0.27 | 0.97 | 1.9 | 1.9 |
| 208-96-8 | Acenaphthylene | 0.97 | U | 0.29 | 0.97 | 1.9 | 1.9 |
| 62-53-3 | Aniline | 1.9 | U | 1.1 | 1.9 | 3.9 | 3.9 |
| 120-12-7 | Anthracene | 0.97 | U | 0.39 | 0.97 | 1.9 | 1.9 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 1.9 | U | 0.49 | 1.9 | 3.9 | 3.9 |
| 92-87-5 | Benzidine | 97 | U Y | 28 | 97 | 190 | 190 |
| 56-55-3 | Benzo(a)anthracene | 0.97 | U | 0.36 | 0.97 | 1.9 | 1.9 |
| 50-32-8 | Benzo(a)pyrene | 0.97 | U | 0.33 | 0.97 | 1.9 | 1.9 |
| 205-99-2 | Benzo(b)fluoranthene | 0.97 | U | 0.36 | 0.97 | 1.9 | 1.9 |
| 191-24-2 | Benzo(g,h,i)perylene | 0.97 | U | 0.36 | 0.97 | 1.9 | 1.9 |
| 207-08-9 | Benzo(k)fluoranthene | 0.97 | U | 0.24 | 0.97 | 1.9 | 1.9 |
| 65-85-0 | Benzoic acid | 4.9 | U Y | 1.9 | 4.9 | 9.7 | 9.7 |
| 100-51-6 | Benzyl alcohol | 0.97 | U | 0.49 | 0.97 | 1.9 | 1.9 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 0.97 | U | 0.31 | 0.97 | 1.9 | 1.9 |
| 111-44-4 | Bis(2-chloroethyl)ether | 0.97 | U | 0.31 | 0.97 | 1.9 | 1.9 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **RB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | GROUND WATER | SDG No.: | 194024 |
| Sample wt/vol: | (g/L) | CTL Sample ID: | 1568824 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/07/2025 / 11:10 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138277 |
| Analytical Run #: | 290647 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:44 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040725 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 0.97 | U | 0.25 | 0.97 | 1.9 | 1.9 |
| 85-68-7 | Butylbenzylphthalate | 0.97 | U | 0.32 | 0.97 | 1.9 | 1.9 |
| 86-74-8 | Carbazole | 1.9 | U | 0.63 | 1.9 | 3.9 | 3.9 |
| 218-01-9 | Chrysene | 0.97 | U | 0.35 | 0.97 | 1.9 | 1.9 |
| 53-70-3 | Dibenzo(a,h)anthracene | 0.97 | U | 0.35 | 0.97 | 1.9 | 1.9 |
| 132-64-9 | Dibenzofuran | 0.97 | U | 0.31 | 0.97 | 1.9 | 1.9 |
| 84-66-2 | Diethylphthalate | 0.87 | J | 0.28 | 0.97 | 1.9 | 1.9 |
| 131-11-3 | Dimethylphthalate | 0.43 | J | 0.31 | 0.97 | 1.9 | 1.9 |
| 84-74-2 | Di-n-butylphthalate | 0.86 | J B | 0.34 | 0.97 | 1.9 | 1.9 |
| 117-84-0 | Di-n-octylphthalate | 1.9 | U | 0.59 | 1.9 | 3.9 | 3.9 |
| 206-44-0 | Fluoranthene | 0.97 | U | 0.26 | 0.97 | 1.9 | 1.9 |
| 86-73-7 | Fluorene | 0.97 | U | 0.24 | 0.97 | 1.9 | 1.9 |
| 118-74-1 | Hexachlorobenzene | 0.97 | U | 0.28 | 0.97 | 1.9 | 1.9 |
| 87-68-3 | Hexachlorobutadiene | 0.97 | U | 0.28 | 0.97 | 1.9 | 1.9 |
| 77-47-4 | Hexachlorocyclopentadiene | 0.97 | U | 0.31 | 0.97 | 1.9 | 1.9 |
| 67-72-1 | Hexachloroethane | 0.97 | U | 0.30 | 0.97 | 1.9 | 1.9 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 0.97 | U | 0.38 | 0.97 | 1.9 | 1.9 |
| 78-59-1 | Isophorone | 0.97 | U | 0.25 | 0.97 | 1.9 | 1.9 |
| 91-20-3 | Naphthalene | 0.97 | U | 0.34 | 0.97 | 1.9 | 1.9 |
| 98-95-3 | Nitrobenzene | 0.97 | U | 0.29 | 0.97 | 1.9 | 1.9 |
| 62-75-9 | N-Nitrosodimethylamine | 0.97 | U | 0.27 | 0.97 | 1.9 | 1.9 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 0.97 | U | 0.46 | 0.97 | 1.9 | 1.9 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **RB-01-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | GROUND WATER | SDG No.: | 194024 |
| Sample wt/vol: | (g/L) | CTL Sample ID: | 1568824 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/07/2025 / 11:10 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138277 |
| Analytical Run #: | 290647 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/08/2025 / 14:44 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040725 Concentration Units: ug/L

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 1.9 | U | 0.58 | 1.9 | 3.9 | 3.9 |
| 930-55-2 | N-Nitrosopyrrolidine | 0.97 | U | 0.29 | 0.97 | 1.9 | 1.9 |
| 87-86-5 | Pentachlorophenol | 4.9 | U | 1.6 | 4.9 | 9.7 | 9.7 |
| 85-01-8 | Phenanthrene | 0.97 | U | 0.24 | 0.97 | 1.9 | 1.9 |
| 108-95-2 | Phenol | 4.9 | U | 1.9 | 4.9 | 9.7 | 9.7 |
| 129-00-0 | Pyrene | 0.97 | U | 0.31 | 0.97 | 1.9 | 1.9 |
| 110-86-1 | Pyridine | 1.9 | U Y | 0.97 | 1.9 | 3.9 | 3.9 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.39 (g/L) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 16:28 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 56-55-3 | Benzo(a)anthracene | 22400 | | 470 | 1200 | 2400 | 2400 |
| 50-32-8 | Benzo(a)pyrene | 21700 | | 470 | 1200 | 2400 | 2400 |
| 205-99-2 | Benzo(b)fluoranthene | 33300 | | 590 | 1200 | 2400 | 2400 |
| 191-24-2 | Benzo(g,h,i)perylene | 10600 | | 470 | 1200 | 2400 | 2400 |
| 207-08-9 | Benzo(k)fluoranthene | 11600 | | 590 | 1200 | 2400 | 2400 |
| 86-74-8 | Carbazole | 9180 | | 710 | 2400 | 4700 | 4700 |
| 218-01-9 | Chrysene | 23500 | | 470 | 1200 | 2400 | 2400 |
| 53-70-3 | Dibenzo(a,h)anthracene | 2890 | | 590 | 1200 | 2400 | 2400 |
| 206-44-0 | Fluoranthene | 58100 | | 470 | 1200 | 2400 | 2400 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10600 | | 470 | 1200 | 2400 | 2400 |
| 85-01-8 | Phenanthrene | 42200 | | 470 | 1200 | 2400 | 2400 |
| 129-00-0 | Pyrene | 42100 | | 590 | 1200 | 2400 | 2400 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.39 (g/L) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 21:57 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 240 | U | 98 | 240 | 470 | 470 |
| 95-50-1 | 1,2-Dichlorobenzene | 120 | U | 47 | 120 | 240 | 240 |
| 541-73-1 | 1,3-Dichlorobenzene | 120 | U | 47 | 120 | 240 | 240 |
| 106-46-7 | 1,4-Dichlorobenzene | 120 | U | 47 | 120 | 240 | 240 |
| 90-12-0 | 1-Methylnaphthalene | 327 | | 29 | 120 | 240 | 240 |
| 95-95-4 | 2,4,5-Trichlorophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 88-06-2 | 2,4,6-Trichlorophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 120-83-2 | 2,4-Dichlorophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 105-67-9 | 2,4-Dimethylphenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 51-28-5 | 2,4-Dinitrophenol | 590 | U | 240 | 590 | 1200 | 1200 |
| 121-14-2 | 2,4-Dinitrotoluene | 120 | U | 59 | 120 | 240 | 240 |
| 87-65-0 | 2,6-Dichlorophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 606-20-2 | 2,6-Dinitrotoluene | 120 | U | 59 | 120 | 240 | 240 |
| 91-58-7 | 2-Chloronaphthalene | 120 | U | 47 | 120 | 240 | 240 |
| 95-57-8 | 2-Chlorophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 91-57-6 | 2-Methylnaphthalene | 485 | | 29 | 120 | 240 | 240 |
| 95-48-7 | 2-Methylphenol | 590 | U | 240 | 590 | 1200 | 1200 |
| 88-74-4 | 2-Nitroaniline | 240 | U | 94 | 240 | 470 | 470 |
| 88-75-5 | 2-Nitrophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 1319-77-3 | 3 & 4-Methylphenol | 1200 | U | 350 | 1200 | 2400 | 2400 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 240 | U | 94 | 240 | 470 | 470 |
| 99-09-2 | 3-Nitroaniline | 120 | U | 47 | 120 | 240 | 240 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.39 (g/L) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 21:57 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 590 | U | 240 | 590 | 1200 | 1200 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 120 | U | 59 | 120 | 240 | 240 |
| 59-50-7 | 4-Chloro-3-methylphenol | 590 | U | 240 | 590 | 1200 | 1200 |
| 106-47-8 | 4-Chloroaniline | 240 | U | 59 | 240 | 470 | 470 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 120 | U | 29 | 120 | 240 | 240 |
| 100-01-6 | 4-Nitroaniline | 120 | U | 47 | 120 | 240 | 240 |
| 100-02-7 | 4-Nitrophenol | 590 | U | 350 | 590 | 1200 | 1200 |
| 83-32-9 | Acenaphthene | 3960 | | 83 | 240 | 470 | 470 |
| 208-96-8 | Acenaphthylene | 94.8 | J | 59 | 120 | 240 | 240 |
| 62-53-3 | Aniline | 240 | U | 120 | 240 | 470 | 470 |
| 120-12-7 | Anthracene | 5660 | | 47 | 120 | 240 | 240 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 240 | U | 59 | 240 | 470 | 470 |
| 92-87-5 | Benzidine | 2400 | U Z | 1100 | 2400 | 4700 | 4700 |
| 65-85-0 | Benzoic acid | 1100 | U | 470 | 1100 | 2100 | 2100 |
| 100-51-6 | Benzyl alcohol | 240 | U | 59 | 240 | 470 | 470 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 47 | 120 | 240 | 240 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 29 | 120 | 240 | 240 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 158 | J | 59 | 120 | 240 | 240 |
| 85-68-7 | Butylbenzylphthalate | 240 | U | 94 | 240 | 470 | 470 |
| 132-64-9 | Dibenzofuran | 1880 | | 47 | 120 | 240 | 240 |
| 84-66-2 | Diethylphthalate | 120 | U | 47 | 120 | 240 | 240 |
| 131-11-3 | Dimethylphthalate | 120 | U | 29 | 120 | 240 | 240 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.39 (g/L) | CTL Sample ID: | 1568822 |
| % Solids: | 81.6 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 21:57 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 84-74-2 | Di-n-butylphthalate | 240 | U | 59 | 240 | 470 | 470 |
| 117-84-0 | Di-n-octylphthalate | 120 | U | 47 | 120 | 240 | 240 |
| 86-73-7 | Fluorene | 2900 | | 29 | 120 | 240 | 240 |
| 118-74-1 | Hexachlorobenzene | 120 | U | 59 | 120 | 240 | 240 |
| 87-68-3 | Hexachlorobutadiene | 120 | U | 29 | 120 | 240 | 240 |
| 77-47-4 | Hexachlorocyclopentadiene | 120 | U Q,Z | 59 | 120 | 240 | 240 |
| 67-72-1 | Hexachloroethane | 120 | U | 29 | 120 | 240 | 240 |
| 78-59-1 | Isophorone | 120 | U | 47 | 120 | 240 | 240 |
| 91-20-3 | Naphthalene | 921 | | 47 | 120 | 240 | 240 |
| 98-95-3 | Nitrobenzene | 120 | U | 47 | 120 | 240 | 240 |
| 62-75-9 | N-Nitrosodimethylamine | 240 | U | 92 | 240 | 470 | 470 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 120 | U | 59 | 120 | 240 | 240 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 240 | U | 120 | 240 | 470 | 470 |
| 930-55-2 | N-Nitrosopyrrolidine | 120 | U | 47 | 120 | 240 | 240 |
| 87-86-5 | Pentachlorophenol | 590 | U | 240 | 590 | 1200 | 1200 |
| 108-95-2 | Phenol | 590 | U | 240 | 590 | 1200 | 1200 |
| 110-86-1 | Pyridine | 240 | U | 83 | 240 | 470 | 470 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.57 (g/L) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 2 |
| Date & Time Analyzed: | 04/11/2025 / 14:09 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 205-99-2 | Benzo(b)fluoranthene | 6260 | | 110 | 220 | 450 | 450 |
| 206-44-0 | Fluoranthene | 10200 | | 89 | 220 | 450 | 450 |
| 85-01-8 | Phenanthrene | 6720 | | 89 | 220 | 450 | 450 |
| 129-00-0 | Pyrene | 7350 | | 110 | 220 | 450 | 450 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.57 (g/L) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 19:14 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 220 | U | 93 | 220 | 450 | 450 |
| 95-50-1 | 1,2-Dichlorobenzene | 110 | U | 45 | 110 | 220 | 220 |
| 541-73-1 | 1,3-Dichlorobenzene | 110 | U | 45 | 110 | 220 | 220 |
| 106-46-7 | 1,4-Dichlorobenzene | 110 | U | 45 | 110 | 220 | 220 |
| 90-12-0 | 1-Methylnaphthalene | 68.7 | J | 28 | 110 | 220 | 220 |
| 95-95-4 | 2,4,5-Trichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 88-06-2 | 2,4,6-Trichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 120-83-2 | 2,4-Dichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 105-67-9 | 2,4-Dimethylphenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 51-28-5 | 2,4-Dinitrophenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 121-14-2 | 2,4-Dinitrotoluene | 110 | U | 56 | 110 | 220 | 220 |
| 87-65-0 | 2,6-Dichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 606-20-2 | 2,6-Dinitrotoluene | 110 | U | 56 | 110 | 220 | 220 |
| 91-58-7 | 2-Chloronaphthalene | 110 | U | 45 | 110 | 220 | 220 |
| 95-57-8 | 2-Chlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 91-57-6 | 2-Methylnaphthalene | 94.5 | J | 28 | 110 | 220 | 220 |
| 95-48-7 | 2-Methylphenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 88-74-4 | 2-Nitroaniline | 220 | U | 89 | 220 | 450 | 450 |
| 88-75-5 | 2-Nitrophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 1319-77-3 | 3 & 4-Methylphenol | 1100 | U | 340 | 1100 | 2200 | 2200 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U | 89 | 220 | 450 | 450 |
| 99-09-2 | 3-Nitroaniline | 110 | U | 45 | 110 | 220 | 220 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.57 (g/L) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 19:14 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 110 | U | 56 | 110 | 220 | 220 |
| 59-50-7 | 4-Chloro-3-methylphenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 106-47-8 | 4-Chloroaniline | 220 | U | 56 | 220 | 450 | 450 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 110 | U | 28 | 110 | 220 | 220 |
| 100-01-6 | 4-Nitroaniline | 110 | U | 45 | 110 | 220 | 220 |
| 100-02-7 | 4-Nitrophenol | 560 | U | 340 | 560 | 1100 | 1100 |
| 83-32-9 | Acenaphthene | 702 | | 78 | 220 | 450 | 450 |
| 208-96-8 | Acenaphthylene | 110 | U | 56 | 110 | 220 | 220 |
| 62-53-3 | Aniline | 220 | U | 110 | 220 | 450 | 450 |
| 120-12-7 | Anthracene | 1070 | | 45 | 110 | 220 | 220 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 220 | U | 56 | 220 | 450 | 450 |
| 92-87-5 | Benzidine | 2200 | U Z | 1100 | 2200 | 4500 | 4500 |
| 56-55-3 | Benzo(a)anthracene | 3630 | | 45 | 110 | 220 | 220 |
| 50-32-8 | Benzo(a)pyrene | 3670 | | 45 | 110 | 220 | 220 |
| 191-24-2 | Benzo(g,h,i)perylene | 1370 | Z | 45 | 110 | 220 | 220 |
| 207-08-9 | Benzo(k)fluoranthene | 2010 | | 56 | 110 | 220 | 220 |
| 65-85-0 | Benzoic acid | 1000 | U | 450 | 1000 | 2000 | 2000 |
| 100-51-6 | Benzyl alcohol | 220 | U | 56 | 220 | 450 | 450 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 110 | U | 45 | 110 | 220 | 220 |
| 111-44-4 | Bis(2-chloroethyl)ether | 110 | U | 28 | 110 | 220 | 220 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 110 | U | 56 | 110 | 220 | 220 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.57 (g/L) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 19:14 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 85-68-7 | Butylbenzylphthalate | 220 | U | 89 | 220 | 450 | 450 |
| 86-74-8 | Carbazole | 1310 | | 67 | 220 | 450 | 450 |
| 218-01-9 | Chrysene | 4010 | | 45 | 110 | 220 | 220 |
| 53-70-3 | Dibenzo(a,h)anthracene | 377 | | 56 | 110 | 220 | 220 |
| 132-64-9 | Dibenzofuran | 304 | | 45 | 110 | 220 | 220 |
| 84-66-2 | Diethylphthalate | 110 | U | 45 | 110 | 220 | 220 |
| 131-11-3 | Dimethylphthalate | 110 | U | 28 | 110 | 220 | 220 |
| 84-74-2 | Di-n-butylphthalate | 220 | U | 56 | 220 | 450 | 450 |
| 117-84-0 | Di-n-octylphthalate | 110 | U | 45 | 110 | 220 | 220 |
| 86-73-7 | Fluorene | 483 | | 28 | 110 | 220 | 220 |
| 118-74-1 | Hexachlorobenzene | 110 | U | 56 | 110 | 220 | 220 |
| 87-68-3 | Hexachlorobutadiene | 110 | U | 28 | 110 | 220 | 220 |
| 77-47-4 | Hexachlorocyclopentadiene | 110 | U Q,Z | 56 | 110 | 220 | 220 |
| 67-72-1 | Hexachloroethane | 110 | U | 28 | 110 | 220 | 220 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1380 | | 45 | 110 | 220 | 220 |
| 78-59-1 | Isophorone | 110 | U | 45 | 110 | 220 | 220 |
| 91-20-3 | Naphthalene | 202 | J | 45 | 110 | 220 | 220 |
| 98-95-3 | Nitrobenzene | 110 | U | 45 | 110 | 220 | 220 |
| 62-75-9 | N-Nitrosodimethylamine | 220 | U | 87 | 220 | 450 | 450 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 110 | U | 56 | 110 | 220 | 220 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 220 | U | 110 | 220 | 450 | 450 |
| 930-55-2 | N-Nitrosopyrrolidine | 110 | U | 45 | 110 | 220 | 220 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.57 (g/L) | CTL Sample ID: | 1568823 |
| % Solids: | 84.6 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 19:14 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 87-86-5 | Pentachlorophenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 108-95-2 | Phenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 110-86-1 | Pyridine | 220 | U | 78 | 220 | 450 | 450 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.20 (g/L) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 01:03 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 2300 | U | 950 | 2300 | 4600 | 4600 |
| 95-50-1 | 1,2-Dichlorobenzene | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 541-73-1 | 1,3-Dichlorobenzene | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 106-46-7 | 1,4-Dichlorobenzene | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 90-12-0 | 1-Methylnaphthalene | 814 | J | 290 | 1100 | 2300 | 2300 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 120-83-2 | 2,4-Dichlorophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 105-67-9 | 2,4-Dimethylphenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 51-28-5 | 2,4-Dinitrophenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 121-14-2 | 2,4-Dinitrotoluene | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 87-65-0 | 2,6-Dichlorophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 606-20-2 | 2,6-Dinitrotoluene | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 91-58-7 | 2-Chloronaphthalene | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 95-57-8 | 2-Chlorophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 91-57-6 | 2-Methylnaphthalene | 1080 | J | 290 | 1100 | 2300 | 2300 |
| 95-48-7 | 2-Methylphenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 88-74-4 | 2-Nitroaniline | 2300 | U | 920 | 2300 | 4600 | 4600 |
| 88-75-5 | 2-Nitrophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 1319-77-3 | 3 & 4-Methylphenol | 11000 | U | 3400 | 11000 | 23000 | 23000 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2300 | U | 920 | 2300 | 4600 | 4600 |
| 99-09-2 | 3-Nitroaniline | 1100 | U | 460 | 1100 | 2300 | 2300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.20 (g/L) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 01:03 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 106-47-8 | 4-Chloroaniline | 2300 | U | 570 | 2300 | 4600 | 4600 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1100 | U | 290 | 1100 | 2300 | 2300 |
| 100-01-6 | 4-Nitroaniline | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 100-02-7 | 4-Nitrophenol | 5700 | U | 3400 | 5700 | 11000 | 11000 |
| 83-32-9 | Acenaphthene | 9350 | | 800 | 2300 | 4600 | 4600 |
| 208-96-8 | Acenaphthylene | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 62-53-3 | Aniline | 2300 | U | 1100 | 2300 | 4600 | 4600 |
| 120-12-7 | Anthracene | 15400 | | 460 | 1100 | 2300 | 2300 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 2300 | U | 570 | 2300 | 4600 | 4600 |
| 92-87-5 | Benzidine | 23000 | U Z | 11000 | 23000 | 46000 | 46000 |
| 56-55-3 | Benzo(a)anthracene | 47300 | | 460 | 1100 | 2300 | 2300 |
| 50-32-8 | Benzo(a)pyrene | 45400 | | 460 | 1100 | 2300 | 2300 |
| 191-24-2 | Benzo(g,h,i)perylene | 12000 | Z | 460 | 1100 | 2300 | 2300 |
| 207-08-9 | Benzo(k)fluoranthene | 26800 | | 570 | 1100 | 2300 | 2300 |
| 65-85-0 | Benzoic acid | 10000 | U | 4600 | 10000 | 21000 | 21000 |
| 100-51-6 | Benzyl alcohol | 2300 | U | 570 | 2300 | 4600 | 4600 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1100 | U | 290 | 1100 | 2300 | 2300 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1100 | U | 570 | 1100 | 2300 | 2300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.20 (g/L) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 01:03 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 85-68-7 | Butylbenzylphthalate | 2300 | U | 920 | 2300 | 4600 | 4600 |
| 86-74-8 | Carbazole | 17400 | | 690 | 2300 | 4600 | 4600 |
| 218-01-9 | Chrysene | 48200 | | 460 | 1100 | 2300 | 2300 |
| 53-70-3 | Dibenzo(a,h)anthracene | 3710 | | 570 | 1100 | 2300 | 2300 |
| 132-64-9 | Dibenzofuran | 4480 | | 460 | 1100 | 2300 | 2300 |
| 84-66-2 | Diethylphthalate | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 131-11-3 | Dimethylphthalate | 1100 | U | 290 | 1100 | 2300 | 2300 |
| 84-74-2 | Di-n-butylphthalate | 2300 | U | 570 | 2300 | 4600 | 4600 |
| 117-84-0 | Di-n-octylphthalate | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 86-73-7 | Fluorene | 6940 | | 290 | 1100 | 2300 | 2300 |
| 118-74-1 | Hexachlorobenzene | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 87-68-3 | Hexachlorobutadiene | 1100 | U | 290 | 1100 | 2300 | 2300 |
| 77-47-4 | Hexachlorocyclopentadiene | 1100 | U Q,Z | 570 | 1100 | 2300 | 2300 |
| 67-72-1 | Hexachloroethane | 1100 | U | 290 | 1100 | 2300 | 2300 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 13100 | | 460 | 1100 | 2300 | 2300 |
| 78-59-1 | Isophorone | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 91-20-3 | Naphthalene | 2180 | J | 460 | 1100 | 2300 | 2300 |
| 98-95-3 | Nitrobenzene | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 62-75-9 | N-Nitrosodimethylamine | 2300 | U | 900 | 2300 | 4600 | 4600 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 2300 | U | 1100 | 2300 | 4600 | 4600 |
| 930-55-2 | N-Nitrosopyrrolidine | 1100 | U | 460 | 1100 | 2300 | 2300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.20 (g/L) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 01:03 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 87-86-5 | Pentachlorophenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 108-95-2 | Phenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 110-86-1 | Pyridine | 2300 | U | 800 | 2300 | 4600 | 4600 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.20 (g/L) | CTL Sample ID: | 1568820 |
| % Solids: | 85.3 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 50 |
| Date & Time Analyzed: | 04/11/2025 / 19:33 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 205-99-2 | Benzo(b)fluoranthene | 90000 | | 2900 | 5700 | 11000 | 11000 |
| 206-44-0 | Fluoranthene | 161000 | | 2300 | 5700 | 11000 | 11000 |
| 85-01-8 | Phenanthrene | 112000 | | 2300 | 5700 | 11000 | 11000 |
| 129-00-0 | Pyrene | 113000 | | 2900 | 5700 | 11000 | 11000 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.44 (g/L) | CTL Sample ID: | 1568821 |
| % Solids: | 83.5 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 16:55 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 230 | U | 95 | 230 | 460 | 460 |
| 95-50-1 | 1,2-Dichlorobenzene | 110 | U | 46 | 110 | 230 | 230 |
| 541-73-1 | 1,3-Dichlorobenzene | 110 | U | 46 | 110 | 230 | 230 |
| 106-46-7 | 1,4-Dichlorobenzene | 110 | U | 46 | 110 | 230 | 230 |
| 90-12-0 | 1-Methylnaphthalene | 110 | U | 29 | 110 | 230 | 230 |
| 95-95-4 | 2,4,5-Trichlorophenol | 570 | U | 170 | 570 | 1100 | 1100 |
| 88-06-2 | 2,4,6-Trichlorophenol | 570 | U | 170 | 570 | 1100 | 1100 |
| 120-83-2 | 2,4-Dichlorophenol | 570 | U | 170 | 570 | 1100 | 1100 |
| 105-67-9 | 2,4-Dimethylphenol | 570 | U | 170 | 570 | 1100 | 1100 |
| 51-28-5 | 2,4-Dinitrophenol | 570 | U | 230 | 570 | 1100 | 1100 |
| 121-14-2 | 2,4-Dinitrotoluene | 110 | U | 57 | 110 | 230 | 230 |
| 87-65-0 | 2,6-Dichlorophenol | 570 | U | 170 | 570 | 1100 | 1100 |
| 606-20-2 | 2,6-Dinitrotoluene | 110 | U | 57 | 110 | 230 | 230 |
| 91-58-7 | 2-Chloronaphthalene | 110 | U | 46 | 110 | 230 | 230 |
| 95-57-8 | 2-Chlorophenol | 570 | U | 170 | 570 | 1100 | 1100 |
| 91-57-6 | 2-Methylnaphthalene | 110 | U | 29 | 110 | 230 | 230 |
| 95-48-7 | 2-Methylphenol | 570 | U | 230 | 570 | 1100 | 1100 |
| 88-74-4 | 2-Nitroaniline | 230 | U | 92 | 230 | 460 | 460 |
| 88-75-5 | 2-Nitrophenol | 570 | U | 170 | 570 | 1100 | 1100 |
| 1319-77-3 | 3 & 4-Methylphenol | 1100 | U | 340 | 1100 | 2300 | 2300 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 230 | U | 92 | 230 | 460 | 460 |
| 99-09-2 | 3-Nitroaniline | 110 | U | 46 | 110 | 230 | 230 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.44 (g/L) | CTL Sample ID: | 1568821 |
| % Solids: | 83.5 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 16:55 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 570 | U | 230 | 570 | 1100 | 1100 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 110 | U | 57 | 110 | 230 | 230 |
| 59-50-7 | 4-Chloro-3-methylphenol | 570 | U | 230 | 570 | 1100 | 1100 |
| 106-47-8 | 4-Chloroaniline | 230 | U | 57 | 230 | 460 | 460 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 110 | U | 29 | 110 | 230 | 230 |
| 100-01-6 | 4-Nitroaniline | 110 | U | 46 | 110 | 230 | 230 |
| 100-02-7 | 4-Nitrophenol | 570 | U | 340 | 570 | 1100 | 1100 |
| 83-32-9 | Acenaphthene | 230 | U | 80 | 230 | 460 | 460 |
| 208-96-8 | Acenaphthylene | 110 | U | 57 | 110 | 230 | 230 |
| 62-53-3 | Aniline | 230 | U | 110 | 230 | 460 | 460 |
| 120-12-7 | Anthracene | 110 | U | 46 | 110 | 230 | 230 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 230 | U | 57 | 230 | 460 | 460 |
| 92-87-5 | Benzidine | 2300 | U Z | 1100 | 2300 | 4600 | 4600 |
| 56-55-3 | Benzo(a)anthracene | 106 | J | 46 | 110 | 230 | 230 |
| 50-32-8 | Benzo(a)pyrene | 91.4 | J | 46 | 110 | 230 | 230 |
| 205-99-2 | Benzo(b)fluoranthene | 148 | J | 57 | 110 | 230 | 230 |
| 191-24-2 | Benzo(g,h,i)perylene | 68.1 | J Z | 46 | 110 | 230 | 230 |
| 207-08-9 | Benzo(k)fluoranthene | 110 | U | 57 | 110 | 230 | 230 |
| 65-85-0 | Benzoic acid | 1000 | U | 460 | 1000 | 2100 | 2100 |
| 100-51-6 | Benzyl alcohol | 230 | U | 57 | 230 | 460 | 460 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 110 | U | 46 | 110 | 230 | 230 |
| 111-44-4 | Bis(2-chloroethyl)ether | 110 | U | 29 | 110 | 230 | 230 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-112-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.44 (g/L) | CTL Sample ID: | 1568821 |
| % Solids: | 83.5 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 16:55 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 110 | U | 57 | 110 | 230 | 230 |
| 85-68-7 | Butylbenzylphthalate | 230 | U | 92 | 230 | 460 | 460 |
| 86-74-8 | Carbazole | 230 | U | 69 | 230 | 460 | 460 |
| 218-01-9 | Chrysene | 115 | J | 46 | 110 | 230 | 230 |
| 53-70-3 | Dibenzo(a,h)anthracene | 110 | U | 57 | 110 | 230 | 230 |
| 132-64-9 | Dibenzofuran | 110 | U | 46 | 110 | 230 | 230 |
| 84-66-2 | Diethylphthalate | 110 | U | 46 | 110 | 230 | 230 |
| 131-11-3 | Dimethylphthalate | 110 | U | 29 | 110 | 230 | 230 |
| 84-74-2 | Di-n-butylphthalate | 230 | U | 57 | 230 | 460 | 460 |
| 117-84-0 | Di-n-octylphthalate | 110 | U | 46 | 110 | 230 | 230 |
| 206-44-0 | Fluoranthene | 306 | | 46 | 110 | 230 | 230 |
| 86-73-7 | Fluorene | 110 | U | 29 | 110 | 230 | 230 |
| 118-74-1 | Hexachlorobenzene | 110 | U | 57 | 110 | 230 | 230 |
| 87-68-3 | Hexachlorobutadiene | 110 | U | 29 | 110 | 230 | 230 |
| 77-47-4 | Hexachlorocyclopentadiene | 110 | U Q,Z | 57 | 110 | 230 | 230 |
| 67-72-1 | Hexachloroethane | 110 | U | 29 | 110 | 230 | 230 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 56.6 | J | 46 | 110 | 230 | 230 |
| 78-59-1 | Isophorone | 110 | U | 46 | 110 | 230 | 230 |
| 91-20-3 | Naphthalene | 110 | U | 46 | 110 | 230 | 230 |
| 98-95-3 | Nitrobenzene | 110 | U | 46 | 110 | 230 | 230 |
| 62-75-9 | N-Nitrosodimethylamine | 230 | U | 89 | 230 | 460 | 460 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 110 | U | 57 | 110 | 230 | 230 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-112-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.44 (g/L) | CTL Sample ID: | 1568821 |
| % Solids: | 83.5 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 16:55 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 230 | U | 110 | 230 | 460 | 460 |
| 930-55-2 | N-Nitrosopyrrolidine | 110 | U | 46 | 110 | 230 | 230 |
| 87-86-5 | Pentachlorophenol | 570 | U | 230 | 570 | 1100 | 1100 |
| 85-01-8 | Phenanthrene | 159 | J | 46 | 110 | 230 | 230 |
| 108-95-2 | Phenol | 570 | U | 230 | 570 | 1100 | 1100 |
| 129-00-0 | Pyrene | 214 | J | 57 | 110 | 230 | 230 |
| 110-86-1 | Pyridine | 230 | U | 80 | 230 | 460 | 460 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.10 (g/L) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 5 |
| Date & Time Analyzed: | 04/11/2025 / 12:36 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 56-55-3 | Benzo(a)anthracene | 9110 | M,Y | 240 | 600 | 1200 | 1200 |
| 50-32-8 | Benzo(a)pyrene | 9050 | M,Y | 240 | 600 | 1200 | 1200 |
| 205-99-2 | Benzo(b)fluoranthene | 13900 | M,Y | 300 | 600 | 1200 | 1200 |
| 218-01-9 | Chrysene | 9770 | M,Y | 240 | 600 | 1200 | 1200 |
| 206-44-0 | Fluoranthene | 23400 | M,Y | 240 | 600 | 1200 | 1200 |
| 85-01-8 | Phenanthrene | 15100 | M,Y | 240 | 600 | 1200 | 1200 |
| 129-00-0 | Pyrene | 17000 | M,Y | 300 | 600 | 1200 | 1200 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

CT LABORATORIES
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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.10 (g/L) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 17:41 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 240 | U | 99 | 240 | 480 | 480 |
| 95-50-1 | 1,2-Dichlorobenzene | 120 | U | 48 | 120 | 240 | 240 |
| 541-73-1 | 1,3-Dichlorobenzene | 120 | U | 48 | 120 | 240 | 240 |
| 106-46-7 | 1,4-Dichlorobenzene | 120 | U | 48 | 120 | 240 | 240 |
| 90-12-0 | 1-Methylnaphthalene | 110 | J | 30 | 120 | 240 | 240 |
| 95-95-4 | 2,4,5-Trichlorophenol | 600 | U | 180 | 600 | 1200 | 1200 |
| 88-06-2 | 2,4,6-Trichlorophenol | 600 | U | 180 | 600 | 1200 | 1200 |
| 120-83-2 | 2,4-Dichlorophenol | 600 | U | 180 | 600 | 1200 | 1200 |
| 105-67-9 | 2,4-Dimethylphenol | 600 | U Y | 180 | 600 | 1200 | 1200 |
| 51-28-5 | 2,4-Dinitrophenol | 600 | U | 240 | 600 | 1200 | 1200 |
| 121-14-2 | 2,4-Dinitrotoluene | 120 | U | 60 | 120 | 240 | 240 |
| 87-65-0 | 2,6-Dichlorophenol | 600 | U | 180 | 600 | 1200 | 1200 |
| 606-20-2 | 2,6-Dinitrotoluene | 120 | U | 60 | 120 | 240 | 240 |
| 91-58-7 | 2-Chloronaphthalene | 120 | U | 48 | 120 | 240 | 240 |
| 95-57-8 | 2-Chlorophenol | 600 | U | 180 | 600 | 1200 | 1200 |
| 91-57-6 | 2-Methylnaphthalene | 144 | J | 30 | 120 | 240 | 240 |
| 95-48-7 | 2-Methylphenol | 600 | U | 240 | 600 | 1200 | 1200 |
| 88-74-4 | 2-Nitroaniline | 240 | U | 96 | 240 | 480 | 480 |
| 88-75-5 | 2-Nitrophenol | 600 | U | 180 | 600 | 1200 | 1200 |
| 1319-77-3 | 3 & 4-Methylphenol | 1200 | U | 360 | 1200 | 2400 | 2400 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 240 | U M,Y | 96 | 240 | 480 | 480 |
| 99-09-2 | 3-Nitroaniline | 120 | U Y | 48 | 120 | 240 | 240 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.10 (g/L) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 17:41 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 600 | U | 240 | 600 | 1200 | 1200 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 120 | U | 60 | 120 | 240 | 240 |
| 59-50-7 | 4-Chloro-3-methylphenol | 600 | U | 240 | 600 | 1200 | 1200 |
| 106-47-8 | 4-Chloroaniline | 240 | U | 60 | 240 | 480 | 480 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 120 | U | 30 | 120 | 240 | 240 |
| 100-01-6 | 4-Nitroaniline | 120 | U Y | 48 | 120 | 240 | 240 |
| 100-02-7 | 4-Nitrophenol | 600 | U | 360 | 600 | 1200 | 1200 |
| 83-32-9 | Acenaphthene | 1320 | M,Y | 84 | 240 | 480 | 480 |
| 208-96-8 | Acenaphthylene | 120 | U | 60 | 120 | 240 | 240 |
| 62-53-3 | Aniline | 240 | U M | 120 | 240 | 480 | 480 |
| 120-12-7 | Anthracene | 2020 | M,Y | 48 | 120 | 240 | 240 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 240 | U | 60 | 240 | 480 | 480 |
| 92-87-5 | Benzidine | 2400 | U Y,Z | 1100 | 2400 | 4800 | 4800 |
| 191-24-2 | Benzo(g,h,i)perylene | 3180 | M,Y,Z | 48 | 120 | 240 | 240 |
| 207-08-9 | Benzo(k)fluoranthene | 3280 | M | 60 | 120 | 240 | 240 |
| 65-85-0 | Benzoic acid | 1100 | U | 480 | 1100 | 2200 | 2200 |
| 100-51-6 | Benzyl alcohol | 240 | U | 60 | 240 | 480 | 480 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 48 | 120 | 240 | 240 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 30 | 120 | 240 | 240 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 108 | J | 60 | 120 | 240 | 240 |
| 85-68-7 | Butylbenzylphthalate | 240 | U | 96 | 240 | 480 | 480 |
| 86-74-8 | Carbazole | 2650 | M,Y | 72 | 240 | 480 | 480 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.10 (g/L) | CTL Sample ID: | 1568828 |
| % Solids: | 82.8 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 17:41 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 53-70-3 | Dibenzo(a,h)anthracene | 828 | M | 60 | 120 | 240 | 240 |
| 132-64-9 | Dibenzofuran | 572 | Y | 48 | 120 | 240 | 240 |
| 84-66-2 | Diethylphthalate | 120 | U | 48 | 120 | 240 | 240 |
| 131-11-3 | Dimethylphthalate | 120 | U | 30 | 120 | 240 | 240 |
| 84-74-2 | Di-n-butylphthalate | 240 | U | 60 | 240 | 480 | 480 |
| 117-84-0 | Di-n-octylphthalate | 120 | U | 48 | 120 | 240 | 240 |
| 86-73-7 | Fluorene | 902 | Y | 30 | 120 | 240 | 240 |
| 118-74-1 | Hexachlorobenzene | 120 | U | 60 | 120 | 240 | 240 |
| 87-68-3 | Hexachlorobutadiene | 120 | U | 30 | 120 | 240 | 240 |
| 77-47-4 | Hexachlorocyclopentadiene | 120 | U M,Q,Y,Z | 60 | 120 | 240 | 240 |
| 67-72-1 | Hexachloroethane | 120 | U | 30 | 120 | 240 | 240 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 3140 | M,Y | 48 | 120 | 240 | 240 |
| 78-59-1 | Isophorone | 120 | U | 48 | 120 | 240 | 240 |
| 91-20-3 | Naphthalene | 244 | | 48 | 120 | 240 | 240 |
| 98-95-3 | Nitrobenzene | 120 | U | 48 | 120 | 240 | 240 |
| 62-75-9 | N-Nitrosodimethylamine | 240 | U | 93 | 240 | 480 | 480 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 120 | U | 60 | 120 | 240 | 240 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 240 | U | 120 | 240 | 480 | 480 |
| 930-55-2 | N-Nitrosopyrrolidine | 120 | U | 48 | 120 | 240 | 240 |
| 87-86-5 | Pentachlorophenol | 600 | U | 240 | 600 | 1200 | 1200 |
| 108-95-2 | Phenol | 600 | U | 240 | 600 | 1200 | 1200 |
| 110-86-1 | Pyridine | 240 | U | 84 | 240 | 480 | 480 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.12 (g/L) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 19:38 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 240 | U | 99 | 240 | 480 | 480 |
| 95-50-1 | 1,2-Dichlorobenzene | 120 | U | 48 | 120 | 240 | 240 |
| 541-73-1 | 1,3-Dichlorobenzene | 120 | U | 48 | 120 | 240 | 240 |
| 106-46-7 | 1,4-Dichlorobenzene | 120 | U | 48 | 120 | 240 | 240 |
| 90-12-0 | 1-Methylnaphthalene | 178 | J | 30 | 120 | 240 | 240 |
| 95-95-4 | 2,4,5-Trichlorophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 88-06-2 | 2,4,6-Trichlorophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 120-83-2 | 2,4-Dichlorophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 105-67-9 | 2,4-Dimethylphenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 51-28-5 | 2,4-Dinitrophenol | 590 | U | 240 | 590 | 1200 | 1200 |
| 121-14-2 | 2,4-Dinitrotoluene | 120 | U | 59 | 120 | 240 | 240 |
| 87-65-0 | 2,6-Dichlorophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 606-20-2 | 2,6-Dinitrotoluene | 120 | U | 59 | 120 | 240 | 240 |
| 91-58-7 | 2-Chloronaphthalene | 120 | U | 48 | 120 | 240 | 240 |
| 95-57-8 | 2-Chlorophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 91-57-6 | 2-Methylnaphthalene | 274 | | 30 | 120 | 240 | 240 |
| 95-48-7 | 2-Methylphenol | 590 | U | 240 | 590 | 1200 | 1200 |
| 88-74-4 | 2-Nitroaniline | 240 | U | 95 | 240 | 480 | 480 |
| 88-75-5 | 2-Nitrophenol | 590 | U | 180 | 590 | 1200 | 1200 |
| 1319-77-3 | 3 & 4-Methylphenol | 1200 | U | 360 | 1200 | 2400 | 2400 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 240 | U | 95 | 240 | 480 | 480 |
| 99-09-2 | 3-Nitroaniline | 120 | U | 48 | 120 | 240 | 240 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.12 (g/L) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 19:38 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 590 | U | 240 | 590 | 1200 | 1200 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 120 | U | 59 | 120 | 240 | 240 |
| 59-50-7 | 4-Chloro-3-methylphenol | 590 | U | 240 | 590 | 1200 | 1200 |
| 106-47-8 | 4-Chloroaniline | 240 | U | 59 | 240 | 480 | 480 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 120 | U | 30 | 120 | 240 | 240 |
| 100-01-6 | 4-Nitroaniline | 120 | U | 48 | 120 | 240 | 240 |
| 100-02-7 | 4-Nitrophenol | 590 | U | 360 | 590 | 1200 | 1200 |
| 83-32-9 | Acenaphthene | 240 | U | 83 | 240 | 480 | 480 |
| 208-96-8 | Acenaphthylene | 120 | U | 59 | 120 | 240 | 240 |
| 62-53-3 | Aniline | 240 | U | 120 | 240 | 480 | 480 |
| 120-12-7 | Anthracene | 55.9 | J | 48 | 120 | 240 | 240 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 240 | U | 59 | 240 | 480 | 480 |
| 92-87-5 | Benzidine | 2400 | U Z | 1100 | 2400 | 4800 | 4800 |
| 56-55-3 | Benzo(a)anthracene | 170 | J | 48 | 120 | 240 | 240 |
| 50-32-8 | Benzo(a)pyrene | 196 | J | 48 | 120 | 240 | 240 |
| 205-99-2 | Benzo(b)fluoranthene | 330 | | 59 | 120 | 240 | 240 |
| 191-24-2 | Benzo(g,h,i)perylene | 120 | J Z | 48 | 120 | 240 | 240 |
| 207-08-9 | Benzo(k)fluoranthene | 111 | J | 59 | 120 | 240 | 240 |
| 65-85-0 | Benzoic acid | 1100 | U | 480 | 1100 | 2100 | 2100 |
| 100-51-6 | Benzyl alcohol | 240 | U | 59 | 240 | 480 | 480 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 48 | 120 | 240 | 240 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 30 | 120 | 240 | 240 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.12 (g/L) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 19:38 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 120 | U | 59 | 120 | 240 | 240 |
| 85-68-7 | Butylbenzylphthalate | 240 | U | 95 | 240 | 480 | 480 |
| 86-74-8 | Carbazole | 240 | U | 71 | 240 | 480 | 480 |
| 218-01-9 | Chrysene | 188 | J | 48 | 120 | 240 | 240 |
| 53-70-3 | Dibenzo(a,h)anthracene | 120 | U | 59 | 120 | 240 | 240 |
| 132-64-9 | Dibenzofuran | 120 | U | 48 | 120 | 240 | 240 |
| 84-66-2 | Diethylphthalate | 120 | U | 48 | 120 | 240 | 240 |
| 131-11-3 | Dimethylphthalate | 120 | U | 30 | 120 | 240 | 240 |
| 84-74-2 | Di-n-butylphthalate | 240 | U | 59 | 240 | 480 | 480 |
| 117-84-0 | Di-n-octylphthalate | 120 | U | 48 | 120 | 240 | 240 |
| 206-44-0 | Fluoranthene | 477 | | 48 | 120 | 240 | 240 |
| 86-73-7 | Fluorene | 120 | U | 30 | 120 | 240 | 240 |
| 118-74-1 | Hexachlorobenzene | 120 | U | 59 | 120 | 240 | 240 |
| 87-68-3 | Hexachlorobutadiene | 120 | U | 30 | 120 | 240 | 240 |
| 77-47-4 | Hexachlorocyclopentadiene | 120 | U Q,Z | 59 | 120 | 240 | 240 |
| 67-72-1 | Hexachloroethane | 120 | U | 30 | 120 | 240 | 240 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 87.3 | J | 48 | 120 | 240 | 240 |
| 78-59-1 | Isophorone | 120 | U | 48 | 120 | 240 | 240 |
| 91-20-3 | Naphthalene | 115 | J | 48 | 120 | 240 | 240 |
| 98-95-3 | Nitrobenzene | 120 | U | 48 | 120 | 240 | 240 |
| 62-75-9 | N-Nitrosodimethylamine | 240 | U | 93 | 240 | 480 | 480 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 120 | U | 59 | 120 | 240 | 240 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.12 (g/L) | CTL Sample ID: | 1568830 |
| % Solids: | 83.2 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 19:38 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 240 | U | 120 | 240 | 480 | 480 |
| 930-55-2 | N-Nitrosopyrrolidine | 120 | U | 48 | 120 | 240 | 240 |
| 87-86-5 | Pentachlorophenol | 510 | J | 240 | 590 | 1200 | 1200 |
| 85-01-8 | Phenanthrene | 369 | | 48 | 120 | 240 | 240 |
| 108-95-2 | Phenol | 590 | U | 240 | 590 | 1200 | 1200 |
| 129-00-0 | Pyrene | 361 | | 59 | 120 | 240 | 240 |
| 110-86-1 | Pyridine | 240 | U | 83 | 240 | 480 | 480 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-114-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.38 (g/L) | CTL Sample ID: | 1568834 |
| % Solids: | 83.0 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 00:17 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 2300 | U | 960 | 2300 | 4600 | 4600 |
| 95-50-1 | 1,2-Dichlorobenzene | 1200 | U | 460 | 1200 | 2300 | 2300 |
| 541-73-1 | 1,3-Dichlorobenzene | 1200 | U | 460 | 1200 | 2300 | 2300 |
| 106-46-7 | 1,4-Dichlorobenzene | 1200 | U | 460 | 1200 | 2300 | 2300 |
| 90-12-0 | 1-Methylnaphthalene | 676 | J | 290 | 1200 | 2300 | 2300 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5800 | U | 1700 | 5800 | 12000 | 12000 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5800 | U | 1700 | 5800 | 12000 | 12000 |
| 120-83-2 | 2,4-Dichlorophenol | 5800 | U | 1700 | 5800 | 12000 | 12000 |
| 105-67-9 | 2,4-Dimethylphenol | 5800 | U | 1700 | 5800 | 12000 | 12000 |
| 51-28-5 | 2,4-Dinitrophenol | 5800 | U | 2300 | 5800 | 12000 | 12000 |
| 121-14-2 | 2,4-Dinitrotoluene | 1200 | U | 580 | 1200 | 2300 | 2300 |
| 87-65-0 | 2,6-Dichlorophenol | 5800 | U | 1700 | 5800 | 12000 | 12000 |
| 606-20-2 | 2,6-Dinitrotoluene | 1200 | U | 580 | 1200 | 2300 | 2300 |
| 91-58-7 | 2-Chloronaphthalene | 1200 | U | 460 | 1200 | 2300 | 2300 |
| 95-57-8 | 2-Chlorophenol | 5800 | U | 1700 | 5800 | 12000 | 12000 |
| 91-57-6 | 2-Methylnaphthalene | 846 | J | 290 | 1200 | 2300 | 2300 |
| 95-48-7 | 2-Methylphenol | 5800 | U | 2300 | 5800 | 12000 | 12000 |
| 88-74-4 | 2-Nitroaniline | 2300 | U | 930 | 2300 | 4600 | 4600 |
| 88-75-5 | 2-Nitrophenol | 5800 | U | 1700 | 5800 | 12000 | 12000 |
| 1319-77-3 | 3 & 4-Methylphenol | 12000 | U | 3500 | 12000 | 23000 | 23000 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2300 | U | 930 | 2300 | 4600 | 4600 |
| 99-09-2 | 3-Nitroaniline | 1200 | U | 460 | 1200 | 2300 | 2300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-114-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.38 (g/L) | CTL Sample ID: | 1568834 |
| % Solids: | 83.0 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 00:17 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5800 | U | 2300 | 5800 | 12000 | 12000 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 1200 | U | 580 | 1200 | 2300 | 2300 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5800 | U | 2300 | 5800 | 12000 | 12000 |
| 106-47-8 | 4-Chloroaniline | 2300 | U | 580 | 2300 | 4600 | 4600 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1200 | U | 290 | 1200 | 2300 | 2300 |
| 100-01-6 | 4-Nitroaniline | 1200 | U | 460 | 1200 | 2300 | 2300 |
| 100-02-7 | 4-Nitrophenol | 5800 | U | 3500 | 5800 | 12000 | 12000 |
| 83-32-9 | Acenaphthene | 8540 | | 810 | 2300 | 4600 | 4600 |
| 208-96-8 | Acenaphthylene | 1200 | U | 580 | 1200 | 2300 | 2300 |
| 62-53-3 | Aniline | 2300 | U | 1200 | 2300 | 4600 | 4600 |
| 120-12-7 | Anthracene | 14200 | | 460 | 1200 | 2300 | 2300 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 2300 | U | 580 | 2300 | 4600 | 4600 |
| 92-87-5 | Benzidine | 23000 | U Z | 11000 | 23000 | 46000 | 46000 |
| 56-55-3 | Benzo(a)anthracene | 48100 | | 460 | 1200 | 2300 | 2300 |
| 50-32-8 | Benzo(a)pyrene | 46700 | | 460 | 1200 | 2300 | 2300 |
| 191-24-2 | Benzo(g,h,i)perylene | 12100 | Z | 460 | 1200 | 2300 | 2300 |
| 207-08-9 | Benzo(k)fluoranthene | 28500 | | 580 | 1200 | 2300 | 2300 |
| 65-85-0 | Benzoic acid | 10000 | U | 4600 | 10000 | 21000 | 21000 |
| 100-51-6 | Benzyl alcohol | 2300 | U | 580 | 2300 | 4600 | 4600 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1200 | U | 460 | 1200 | 2300 | 2300 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1200 | U | 290 | 1200 | 2300 | 2300 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1200 | U | 580 | 1200 | 2300 | 2300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-114-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.38 (g/L) | CTL Sample ID: | 1568834 |
| % Solids: | 83.0 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 00:17 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 85-68-7 | Butylbenzylphthalate | 2300 | U | 930 | 2300 | 4600 | 4600 |
| 86-74-8 | Carbazole | 16000 | | 700 | 2300 | 4600 | 4600 |
| 218-01-9 | Chrysene | 49300 | | 460 | 1200 | 2300 | 2300 |
| 53-70-3 | Dibenzo(a,h)anthracene | 3950 | | 580 | 1200 | 2300 | 2300 |
| 132-64-9 | Dibenzofuran | 3690 | | 460 | 1200 | 2300 | 2300 |
| 84-66-2 | Diethylphthalate | 1200 | U | 460 | 1200 | 2300 | 2300 |
| 131-11-3 | Dimethylphthalate | 1200 | U | 290 | 1200 | 2300 | 2300 |
| 84-74-2 | Di-n-butylphthalate | 2300 | U | 580 | 2300 | 4600 | 4600 |
| 117-84-0 | Di-n-octylphthalate | 1200 | U | 460 | 1200 | 2300 | 2300 |
| 86-73-7 | Fluorene | 6080 | | 290 | 1200 | 2300 | 2300 |
| 118-74-1 | Hexachlorobenzene | 1200 | U | 580 | 1200 | 2300 | 2300 |
| 87-68-3 | Hexachlorobutadiene | 1200 | U | 290 | 1200 | 2300 | 2300 |
| 77-47-4 | Hexachlorocyclopentadiene | 1200 | U Q,Z | 580 | 1200 | 2300 | 2300 |
| 67-72-1 | Hexachloroethane | 1200 | U | 290 | 1200 | 2300 | 2300 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 13000 | | 460 | 1200 | 2300 | 2300 |
| 78-59-1 | Isophorone | 1200 | U | 460 | 1200 | 2300 | 2300 |
| 91-20-3 | Naphthalene | 1530 | J | 460 | 1200 | 2300 | 2300 |
| 98-95-3 | Nitrobenzene | 1200 | U | 460 | 1200 | 2300 | 2300 |
| 62-75-9 | N-Nitrosodimethylamine | 2300 | U | 910 | 2300 | 4600 | 4600 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1200 | U | 580 | 1200 | 2300 | 2300 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 2300 | U | 1200 | 2300 | 4600 | 4600 |
| 930-55-2 | N-Nitrosopyrrolidine | 1200 | U | 460 | 1200 | 2300 | 2300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-114-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.38 (g/L) | CTL Sample ID: | 1568834 |
| % Solids: | 83.0 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/11/2025 / 00:17 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 87-86-5 | Pentachlorophenol | 5800 | U | 2300 | 5800 | 12000 | 12000 |
| 108-95-2 | Phenol | 5800 | U | 2300 | 5800 | 12000 | 12000 |
| 110-86-1 | Pyridine | 2300 | U | 810 | 2300 | 4600 | 4600 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-114-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.38 (g/L) | CTL Sample ID: | 1568834 |
| % Solids: | 83.0 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 50 |
| Date & Time Analyzed: | 04/11/2025 / 18:46 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 205-99-2 | Benzo(b)fluoranthene | 92400 | | 2900 | 5800 | 12000 | 12000 |
| 206-44-0 | Fluoranthene | 157000 | | 2300 | 5800 | 12000 | 12000 |
| 85-01-8 | Phenanthrene | 101000 | | 2300 | 5800 | 12000 | 12000 |
| 129-00-0 | Pyrene | 112000 | | 2900 | 5800 | 12000 | 12000 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-115-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.68 (g/L) | CTL Sample ID: | 1568836 |
| % Solids: | 72.4 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 5 |
| Date & Time Analyzed: | 04/11/2025 / 14:55 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 56-55-3 | Benzo(a)anthracene | 10300 | | 260 | 650 | 1300 | 1300 |
| 50-32-8 | Benzo(a)pyrene | 10600 | | 260 | 650 | 1300 | 1300 |
| 205-99-2 | Benzo(b)fluoranthene | 16100 | | 320 | 650 | 1300 | 1300 |
| 218-01-9 | Chrysene | 11100 | | 260 | 650 | 1300 | 1300 |
| 206-44-0 | Fluoranthene | 26100 | | 260 | 650 | 1300 | 1300 |
| 85-01-8 | Phenanthrene | 15700 | | 260 | 650 | 1300 | 1300 |
| 129-00-0 | Pyrene | 19400 | | 320 | 650 | 1300 | 1300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-115-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.68 (g/L) | CTL Sample ID: | 1568836 |
| % Solids: | 72.4 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 20:24 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 260 | U | 110 | 260 | 520 | 520 |
| 95-50-1 | 1,2-Dichlorobenzene | 130 | U | 52 | 130 | 260 | 260 |
| 541-73-1 | 1,3-Dichlorobenzene | 130 | U | 52 | 130 | 260 | 260 |
| 106-46-7 | 1,4-Dichlorobenzene | 130 | U | 52 | 130 | 260 | 260 |
| 90-12-0 | 1-Methylnaphthalene | 94.4 | J | 32 | 130 | 260 | 260 |
| 95-95-4 | 2,4,5-Trichlorophenol | 650 | U | 190 | 650 | 1300 | 1300 |
| 88-06-2 | 2,4,6-Trichlorophenol | 650 | U | 190 | 650 | 1300 | 1300 |
| 120-83-2 | 2,4-Dichlorophenol | 650 | U | 190 | 650 | 1300 | 1300 |
| 105-67-9 | 2,4-Dimethylphenol | 650 | U | 190 | 650 | 1300 | 1300 |
| 51-28-5 | 2,4-Dinitrophenol | 650 | U | 260 | 650 | 1300 | 1300 |
| 121-14-2 | 2,4-Dinitrotoluene | 130 | U | 65 | 130 | 260 | 260 |
| 87-65-0 | 2,6-Dichlorophenol | 650 | U | 190 | 650 | 1300 | 1300 |
| 606-20-2 | 2,6-Dinitrotoluene | 130 | U | 65 | 130 | 260 | 260 |
| 91-58-7 | 2-Chloronaphthalene | 130 | U | 52 | 130 | 260 | 260 |
| 95-57-8 | 2-Chlorophenol | 650 | U | 190 | 650 | 1300 | 1300 |
| 91-57-6 | 2-Methylnaphthalene | 92.0 | J | 32 | 130 | 260 | 260 |
| 95-48-7 | 2-Methylphenol | 650 | U | 260 | 650 | 1300 | 1300 |
| 88-74-4 | 2-Nitroaniline | 260 | U | 100 | 260 | 520 | 520 |
| 88-75-5 | 2-Nitrophenol | 650 | U | 190 | 650 | 1300 | 1300 |
| 1319-77-3 | 3 & 4-Methylphenol | 1300 | U | 390 | 1300 | 2600 | 2600 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 260 | U | 100 | 260 | 520 | 520 |
| 99-09-2 | 3-Nitroaniline | 130 | U | 52 | 130 | 260 | 260 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-115-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.68 (g/L) | CTL Sample ID: | 1568836 |
| % Solids: | 72.4 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 20:24 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 650 | U | 260 | 650 | 1300 | 1300 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 130 | U | 65 | 130 | 260 | 260 |
| 59-50-7 | 4-Chloro-3-methylphenol | 650 | U | 260 | 650 | 1300 | 1300 |
| 106-47-8 | 4-Chloroaniline | 260 | U | 65 | 260 | 520 | 520 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 130 | U | 32 | 130 | 260 | 260 |
| 100-01-6 | 4-Nitroaniline | 130 | U | 52 | 130 | 260 | 260 |
| 100-02-7 | 4-Nitrophenol | 650 | U | 390 | 650 | 1300 | 1300 |
| 83-32-9 | Acenaphthene | 1200 | | 91 | 260 | 520 | 520 |
| 208-96-8 | Acenaphthylene | 203 | J | 65 | 130 | 260 | 260 |
| 62-53-3 | Aniline | 260 | U | 130 | 260 | 520 | 520 |
| 120-12-7 | Anthracene | 2060 | | 52 | 130 | 260 | 260 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 260 | U | 65 | 260 | 520 | 520 |
| 92-87-5 | Benzidine | 2600 | U Z | 1200 | 2600 | 5200 | 5200 |
| 191-24-2 | Benzo(g,h,i)perylene | 2630 | Z | 52 | 130 | 260 | 260 |
| 207-08-9 | Benzo(k)fluoranthene | 4590 | | 65 | 130 | 260 | 260 |
| 65-85-0 | Benzoic acid | 1200 | U | 520 | 1200 | 2300 | 2300 |
| 100-51-6 | Benzyl alcohol | 260 | U | 65 | 260 | 520 | 520 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 130 | U | 52 | 130 | 260 | 260 |
| 111-44-4 | Bis(2-chloroethyl)ether | 130 | U | 32 | 130 | 260 | 260 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 104 | J | 65 | 130 | 260 | 260 |
| 85-68-7 | Butylbenzylphthalate | 260 | U | 100 | 260 | 520 | 520 |
| 86-74-8 | Carbazole | 2530 | | 78 | 260 | 520 | 520 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-115-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.68 (g/L) | CTL Sample ID: | 1568836 |
| % Solids: | 72.4 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 20:24 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 53-70-3 | Dibenzo(a,h)anthracene | 750 | | 65 | 130 | 260 | 260 |
| 132-64-9 | Dibenzofuran | 491 | | 52 | 130 | 260 | 260 |
| 84-66-2 | Diethylphthalate | 130 | U | 52 | 130 | 260 | 260 |
| 131-11-3 | Dimethylphthalate | 130 | U | 32 | 130 | 260 | 260 |
| 84-74-2 | Di-n-butylphthalate | 260 | U | 65 | 260 | 520 | 520 |
| 117-84-0 | Di-n-octylphthalate | 130 | U | 52 | 130 | 260 | 260 |
| 86-73-7 | Fluorene | 909 | | 32 | 130 | 260 | 260 |
| 118-74-1 | Hexachlorobenzene | 130 | U | 65 | 130 | 260 | 260 |
| 87-68-3 | Hexachlorobutadiene | 130 | U | 32 | 130 | 260 | 260 |
| 77-47-4 | Hexachlorocyclopentadiene | 130 | U Q,Z | 65 | 130 | 260 | 260 |
| 67-72-1 | Hexachloroethane | 130 | U | 32 | 130 | 260 | 260 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 2740 | | 52 | 130 | 260 | 260 |
| 78-59-1 | Isophorone | 130 | U | 52 | 130 | 260 | 260 |
| 91-20-3 | Naphthalene | 186 | J | 52 | 130 | 260 | 260 |
| 98-95-3 | Nitrobenzene | 130 | U | 52 | 130 | 260 | 260 |
| 62-75-9 | N-Nitrosodimethylamine | 260 | U | 100 | 260 | 520 | 520 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 130 | U | 65 | 130 | 260 | 260 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 260 | U | 130 | 260 | 520 | 520 |
| 930-55-2 | N-Nitrosopyrrolidine | 130 | U | 52 | 130 | 260 | 260 |
| 87-86-5 | Pentachlorophenol | 650 | U | 260 | 650 | 1300 | 1300 |
| 108-95-2 | Phenol | 650 | U | 260 | 650 | 1300 | 1300 |
| 110-86-1 | Pyridine | 260 | U | 91 | 260 | 520 | 520 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-116-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.03 (g/L) | CTL Sample ID: | 1568838 |
| % Solids: | 86.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 20 |
| Date & Time Analyzed: | 04/11/2025 / 17:14 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 205-99-2 | Benzo(b)fluoranthene | 75400 | | 1100 | 2300 | 4600 | 4600 |
| 85-01-8 | Phenanthrene | 112000 | | 920 | 2300 | 4600 | 4600 |
| 129-00-0 | Pyrene | 99600 | | 1100 | 2300 | 4600 | 4600 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-116-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.03 (g/L) | CTL Sample ID: | 1568838 |
| % Solids: | 86.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 50 |
| Date & Time Analyzed: | 04/11/2025 / 19:56 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 206-44-0 | Fluoranthene | 170000 | | 2300 | 5700 | 11000 | 11000 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-116-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.03 (g/L) | CTL Sample ID: | 1568838 |
| % Solids: | 86.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/10/2025 / 23:07 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 2300 | U | 950 | 2300 | 4600 | 4600 |
| 95-50-1 | 1,2-Dichlorobenzene | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 541-73-1 | 1,3-Dichlorobenzene | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 106-46-7 | 1,4-Dichlorobenzene | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 90-12-0 | 1-Methylnaphthalene | 1140 | J | 290 | 1100 | 2300 | 2300 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 120-83-2 | 2,4-Dichlorophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 105-67-9 | 2,4-Dimethylphenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 51-28-5 | 2,4-Dinitrophenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 121-14-2 | 2,4-Dinitrotoluene | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 87-65-0 | 2,6-Dichlorophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 606-20-2 | 2,6-Dinitrotoluene | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 91-58-7 | 2-Chloronaphthalene | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 95-57-8 | 2-Chlorophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 91-57-6 | 2-Methylnaphthalene | 1760 | J | 290 | 1100 | 2300 | 2300 |
| 95-48-7 | 2-Methylphenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 88-74-4 | 2-Nitroaniline | 2300 | U | 920 | 2300 | 4600 | 4600 |
| 88-75-5 | 2-Nitrophenol | 5700 | U | 1700 | 5700 | 11000 | 11000 |
| 1319-77-3 | 3 & 4-Methylphenol | 11000 | U | 3400 | 11000 | 23000 | 23000 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2300 | U | 920 | 2300 | 4600 | 4600 |
| 99-09-2 | 3-Nitroaniline | 1100 | U | 460 | 1100 | 2300 | 2300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-116-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.03 (g/L) | CTL Sample ID: | 1568838 |
| % Solids: | 86.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/10/2025 / 23:07 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 106-47-8 | 4-Chloroaniline | 2300 | U | 570 | 2300 | 4600 | 4600 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1100 | U | 290 | 1100 | 2300 | 2300 |
| 100-01-6 | 4-Nitroaniline | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 100-02-7 | 4-Nitrophenol | 5700 | U | 3400 | 5700 | 11000 | 11000 |
| 83-32-9 | Acenaphthene | 12600 | | 800 | 2300 | 4600 | 4600 |
| 208-96-8 | Acenaphthylene | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 62-53-3 | Aniline | 2300 | U | 1100 | 2300 | 4600 | 4600 |
| 120-12-7 | Anthracene | 20900 | | 460 | 1100 | 2300 | 2300 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 2300 | U | 570 | 2300 | 4600 | 4600 |
| 92-87-5 | Benzidine | 23000 | U Z | 11000 | 23000 | 46000 | 46000 |
| 56-55-3 | Benzo(a)anthracene | 49200 | | 460 | 1100 | 2300 | 2300 |
| 50-32-8 | Benzo(a)pyrene | 45500 | | 460 | 1100 | 2300 | 2300 |
| 191-24-2 | Benzo(g,h,i)perylene | 11900 | Z | 460 | 1100 | 2300 | 2300 |
| 207-08-9 | Benzo(k)fluoranthene | 28800 | | 570 | 1100 | 2300 | 2300 |
| 65-85-0 | Benzoic acid | 10000 | U | 4600 | 10000 | 21000 | 21000 |
| 100-51-6 | Benzyl alcohol | 2300 | U | 570 | 2300 | 4600 | 4600 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1100 | U | 290 | 1100 | 2300 | 2300 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1100 | U | 570 | 1100 | 2300 | 2300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1B

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-116-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.03 (g/L) | CTL Sample ID: | 1568838 |
| % Solids: | 86.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/10/2025 / 23:07 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 85-68-7 | Butylbenzylphthalate | 2300 | U | 920 | 2300 | 4600 | 4600 |
| 86-74-8 | Carbazole | 21900 | | 690 | 2300 | 4600 | 4600 |
| 218-01-9 | Chrysene | 47500 | | 460 | 1100 | 2300 | 2300 |
| 53-70-3 | Dibenzo(a,h)anthracene | 3680 | | 570 | 1100 | 2300 | 2300 |
| 132-64-9 | Dibenzofuran | 6660 | | 460 | 1100 | 2300 | 2300 |
| 84-66-2 | Diethylphthalate | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 131-11-3 | Dimethylphthalate | 1100 | U | 290 | 1100 | 2300 | 2300 |
| 84-74-2 | Di-n-butylphthalate | 2300 | U | 570 | 2300 | 4600 | 4600 |
| 117-84-0 | Di-n-octylphthalate | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 86-73-7 | Fluorene | 9930 | | 290 | 1100 | 2300 | 2300 |
| 118-74-1 | Hexachlorobenzene | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 87-68-3 | Hexachlorobutadiene | 1100 | U | 290 | 1100 | 2300 | 2300 |
| 77-47-4 | Hexachlorocyclopentadiene | 1100 | U Q,Z | 570 | 1100 | 2300 | 2300 |
| 67-72-1 | Hexachloroethane | 1100 | U | 290 | 1100 | 2300 | 2300 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 12900 | | 460 | 1100 | 2300 | 2300 |
| 78-59-1 | Isophorone | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 91-20-3 | Naphthalene | 2840 | | 460 | 1100 | 2300 | 2300 |
| 98-95-3 | Nitrobenzene | 1100 | U | 460 | 1100 | 2300 | 2300 |
| 62-75-9 | N-Nitrosodimethylamine | 2300 | U | 900 | 2300 | 4600 | 4600 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1100 | U | 570 | 1100 | 2300 | 2300 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 2300 | U | 1100 | 2300 | 4600 | 4600 |
| 930-55-2 | N-Nitrosopyrrolidine | 1100 | U | 460 | 1100 | 2300 | 2300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-116-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.03 (g/L) | CTL Sample ID: | 1568838 |
| % Solids: | 86.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/10/2025 / 23:07 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 87-86-5 | Pentachlorophenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 108-95-2 | Phenol | 5700 | U | 2300 | 5700 | 11000 | 11000 |
| 110-86-1 | Pyridine | 2300 | U | 800 | 2300 | 4600 | 4600 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-117-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.24 (g/L) | CTL Sample ID: | 1568841 |
| % Solids: | 86.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 100 |
| Date & Time Analyzed: | 04/14/2025 / 14:45 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 206-44-0 | Fluoranthene | 327000 | | 4500 | 11000 | 23000 | 23000 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-117-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.24 (g/L) | CTL Sample ID: | 1568841 |
| % Solids: | 86.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 50 |
| Date & Time Analyzed: | 04/11/2025 / 18:23 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 56-55-3 | Benzo(a)anthracene | 104000 | | 2300 | 5600 | 11000 | 11000 |
| 50-32-8 | Benzo(a)pyrene | 97100 | | 2300 | 5600 | 11000 | 11000 |
| 205-99-2 | Benzo(b)fluoranthene | 149000 | | 2800 | 5600 | 11000 | 11000 |
| 218-01-9 | Chrysene | 108000 | | 2300 | 5600 | 11000 | 11000 |
| 85-01-8 | Phenanthrene | 241000 | | 2300 | 5600 | 11000 | 11000 |
| 129-00-0 | Pyrene | 206000 | | 2800 | 5600 | 11000 | 11000 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-117-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.24 (g/L) | CTL Sample ID: | 1568841 |
| % Solids: | 86.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/10/2025 / 23:53 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 2300 | U | 930 | 2300 | 4500 | 4500 |
| 95-50-1 | 1,2-Dichlorobenzene | 1100 | U | 450 | 1100 | 2300 | 2300 |
| 541-73-1 | 1,3-Dichlorobenzene | 1100 | U | 450 | 1100 | 2300 | 2300 |
| 106-46-7 | 1,4-Dichlorobenzene | 1100 | U | 450 | 1100 | 2300 | 2300 |
| 90-12-0 | 1-Methylnaphthalene | 2220 | J | 280 | 1100 | 2300 | 2300 |
| 95-95-4 | 2,4,5-Trichlorophenol | 5600 | U | 1700 | 5600 | 11000 | 11000 |
| 88-06-2 | 2,4,6-Trichlorophenol | 5600 | U | 1700 | 5600 | 11000 | 11000 |
| 120-83-2 | 2,4-Dichlorophenol | 5600 | U | 1700 | 5600 | 11000 | 11000 |
| 105-67-9 | 2,4-Dimethylphenol | 5600 | U | 1700 | 5600 | 11000 | 11000 |
| 51-28-5 | 2,4-Dinitrophenol | 5600 | U | 2300 | 5600 | 11000 | 11000 |
| 121-14-2 | 2,4-Dinitrotoluene | 1100 | U | 560 | 1100 | 2300 | 2300 |
| 87-65-0 | 2,6-Dichlorophenol | 5600 | U | 1700 | 5600 | 11000 | 11000 |
| 606-20-2 | 2,6-Dinitrotoluene | 1100 | U | 560 | 1100 | 2300 | 2300 |
| 91-58-7 | 2-Chloronaphthalene | 1100 | U | 450 | 1100 | 2300 | 2300 |
| 95-57-8 | 2-Chlorophenol | 5600 | U | 1700 | 5600 | 11000 | 11000 |
| 91-57-6 | 2-Methylnaphthalene | 3570 | | 280 | 1100 | 2300 | 2300 |
| 95-48-7 | 2-Methylphenol | 5600 | U | 2300 | 5600 | 11000 | 11000 |
| 88-74-4 | 2-Nitroaniline | 2300 | U | 900 | 2300 | 4500 | 4500 |
| 88-75-5 | 2-Nitrophenol | 5600 | U | 1700 | 5600 | 11000 | 11000 |
| 1319-77-3 | 3 & 4-Methylphenol | 11000 | U | 3400 | 11000 | 23000 | 23000 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2300 | U | 900 | 2300 | 4500 | 4500 |
| 99-09-2 | 3-Nitroaniline | 1100 | U | 450 | 1100 | 2300 | 2300 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-117-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.24 (g/L) | CTL Sample ID: | 1568841 |
| % Solids: | 86.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/10/2025 / 23:53 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5600 | U | 2300 | 5600 | 11000 | 11000 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 1100 | U | 560 | 1100 | 2300 | 2300 |
| 59-50-7 | 4-Chloro-3-methylphenol | 5600 | U | 2300 | 5600 | 11000 | 11000 |
| 106-47-8 | 4-Chloroaniline | 2300 | U | 560 | 2300 | 4500 | 4500 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1100 | U | 280 | 1100 | 2300 | 2300 |
| 100-01-6 | 4-Nitroaniline | 1100 | U | 450 | 1100 | 2300 | 2300 |
| 100-02-7 | 4-Nitrophenol | 5600 | U | 3400 | 5600 | 11000 | 11000 |
| 83-32-9 | Acenaphthene | 23500 | | 790 | 2300 | 4500 | 4500 |
| 208-96-8 | Acenaphthylene | 1100 | U | 560 | 1100 | 2300 | 2300 |
| 62-53-3 | Aniline | 2300 | U | 1100 | 2300 | 4500 | 4500 |
| 120-12-7 | Anthracene | 34100 | | 450 | 1100 | 2300 | 2300 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 2300 | U | 560 | 2300 | 4500 | 4500 |
| 92-87-5 | Benzidine | 23000 | U Z | 11000 | 23000 | 45000 | 45000 |
| 191-24-2 | Benzo(g,h,i)perylene | 19300 | Z | 450 | 1100 | 2300 | 2300 |
| 207-08-9 | Benzo(k)fluoranthene | 41200 | | 560 | 1100 | 2300 | 2300 |
| 65-85-0 | Benzoic acid | 10000 | U | 4500 | 10000 | 20000 | 20000 |
| 100-51-6 | Benzyl alcohol | 2300 | U | 560 | 2300 | 4500 | 4500 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1100 | U | 450 | 1100 | 2300 | 2300 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1100 | U | 280 | 1100 | 2300 | 2300 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1100 | U | 560 | 1100 | 2300 | 2300 |
| 85-68-7 | Butylbenzylphthalate | 2300 | U | 900 | 2300 | 4500 | 4500 |
| 86-74-8 | Carbazole | 38400 | | 680 | 2300 | 4500 | 4500 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-117-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.24 (g/L) | CTL Sample ID: | 1568841 |
| % Solids: | 86.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/10/2025 / 23:53 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 53-70-3 | Dibenzo(a,h)anthracene | 6050 | | 560 | 1100 | 2300 | 2300 |
| 132-64-9 | Dibenzofuran | 12700 | | 450 | 1100 | 2300 | 2300 |
| 84-66-2 | Diethylphthalate | 1100 | U | 450 | 1100 | 2300 | 2300 |
| 131-11-3 | Dimethylphthalate | 1100 | U | 280 | 1100 | 2300 | 2300 |
| 84-74-2 | Di-n-butylphthalate | 2300 | U | 560 | 2300 | 4500 | 4500 |
| 117-84-0 | Di-n-octylphthalate | 1100 | U | 450 | 1100 | 2300 | 2300 |
| 86-73-7 | Fluorene | 18300 | | 280 | 1100 | 2300 | 2300 |
| 118-74-1 | Hexachlorobenzene | 1100 | U | 560 | 1100 | 2300 | 2300 |
| 87-68-3 | Hexachlorobutadiene | 1100 | U | 280 | 1100 | 2300 | 2300 |
| 77-47-4 | Hexachlorocyclopentadiene | 1100 | U Q,Z | 560 | 1100 | 2300 | 2300 |
| 67-72-1 | Hexachloroethane | 1100 | U | 280 | 1100 | 2300 | 2300 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 21100 | | 450 | 1100 | 2300 | 2300 |
| 78-59-1 | Isophorone | 1100 | U | 450 | 1100 | 2300 | 2300 |
| 91-20-3 | Naphthalene | 6900 | | 450 | 1100 | 2300 | 2300 |
| 98-95-3 | Nitrobenzene | 1100 | U | 450 | 1100 | 2300 | 2300 |
| 62-75-9 | N-Nitrosodimethylamine | 2300 | U | 880 | 2300 | 4500 | 4500 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1100 | U | 560 | 1100 | 2300 | 2300 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 2300 | U | 1100 | 2300 | 4500 | 4500 |
| 930-55-2 | N-Nitrosopyrrolidine | 1100 | U | 450 | 1100 | 2300 | 2300 |
| 87-86-5 | Pentachlorophenol | 5600 | U | 2300 | 5600 | 11000 | 11000 |
| 108-95-2 | Phenol | 5600 | U | 2300 | 5600 | 11000 | 11000 |
| 110-86-1 | Pyridine | 2300 | U | 790 | 2300 | 4500 | 4500 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-118-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.58 (g/L) | CTL Sample ID: | 1568839 |
| % Solids: | 77.9 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 2 |
| Date & Time Analyzed: | 04/11/2025 / 12:13 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 206-44-0 | Fluoranthene | 9300 | | 97 | 240 | 490 | 490 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-118-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.58 (g/L) | CTL Sample ID: | 1568839 |
| % Solids: | 77.9 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 17:18 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 240 | U | 100 | 240 | 490 | 490 |
| 95-50-1 | 1,2-Dichlorobenzene | 120 | U | 49 | 120 | 240 | 240 |
| 541-73-1 | 1,3-Dichlorobenzene | 120 | U | 49 | 120 | 240 | 240 |
| 106-46-7 | 1,4-Dichlorobenzene | 120 | U | 49 | 120 | 240 | 240 |
| 90-12-0 | 1-Methylnaphthalene | 68.8 | J | 30 | 120 | 240 | 240 |
| 95-95-4 | 2,4,5-Trichlorophenol | 610 | U | 180 | 610 | 1200 | 1200 |
| 88-06-2 | 2,4,6-Trichlorophenol | 610 | U | 180 | 610 | 1200 | 1200 |
| 120-83-2 | 2,4-Dichlorophenol | 610 | U | 180 | 610 | 1200 | 1200 |
| 105-67-9 | 2,4-Dimethylphenol | 610 | U | 180 | 610 | 1200 | 1200 |
| 51-28-5 | 2,4-Dinitrophenol | 610 | U | 240 | 610 | 1200 | 1200 |
| 121-14-2 | 2,4-Dinitrotoluene | 120 | U | 61 | 120 | 240 | 240 |
| 87-65-0 | 2,6-Dichlorophenol | 610 | U | 180 | 610 | 1200 | 1200 |
| 606-20-2 | 2,6-Dinitrotoluene | 120 | U | 61 | 120 | 240 | 240 |
| 91-58-7 | 2-Chloronaphthalene | 120 | U | 49 | 120 | 240 | 240 |
| 95-57-8 | 2-Chlorophenol | 610 | U | 180 | 610 | 1200 | 1200 |
| 91-57-6 | 2-Methylnaphthalene | 83.1 | J | 30 | 120 | 240 | 240 |
| 95-48-7 | 2-Methylphenol | 610 | U | 240 | 610 | 1200 | 1200 |
| 88-74-4 | 2-Nitroaniline | 240 | U | 97 | 240 | 490 | 490 |
| 88-75-5 | 2-Nitrophenol | 610 | U | 180 | 610 | 1200 | 1200 |
| 1319-77-3 | 3 & 4-Methylphenol | 1200 | U | 360 | 1200 | 2400 | 2400 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 240 | U | 97 | 240 | 490 | 490 |
| 99-09-2 | 3-Nitroaniline | 120 | U | 49 | 120 | 240 | 240 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-118-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.58 (g/L) | CTL Sample ID: | 1568839 |
| % Solids: | 77.9 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 17:18 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 610 | U | 240 | 610 | 1200 | 1200 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 120 | U | 61 | 120 | 240 | 240 |
| 59-50-7 | 4-Chloro-3-methylphenol | 610 | U | 240 | 610 | 1200 | 1200 |
| 106-47-8 | 4-Chloroaniline | 240 | U | 61 | 240 | 490 | 490 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 120 | U | 30 | 120 | 240 | 240 |
| 100-01-6 | 4-Nitroaniline | 120 | U | 49 | 120 | 240 | 240 |
| 100-02-7 | 4-Nitrophenol | 610 | U | 360 | 610 | 1200 | 1200 |
| 83-32-9 | Acenaphthene | 710 | | 85 | 240 | 490 | 490 |
| 208-96-8 | Acenaphthylene | 120 | U | 61 | 120 | 240 | 240 |
| 62-53-3 | Aniline | 240 | U | 120 | 240 | 490 | 490 |
| 120-12-7 | Anthracene | 972 | | 49 | 120 | 240 | 240 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 240 | U | 61 | 240 | 490 | 490 |
| 92-87-5 | Benzidine | 2400 | U Z | 1200 | 2400 | 4900 | 4900 |
| 56-55-3 | Benzo(a)anthracene | 3290 | | 49 | 120 | 240 | 240 |
| 50-32-8 | Benzo(a)pyrene | 3120 | | 49 | 120 | 240 | 240 |
| 205-99-2 | Benzo(b)fluoranthene | 4960 | | 61 | 120 | 240 | 240 |
| 191-24-2 | Benzo(g,h,i)perylene | 1520 | Z | 49 | 120 | 240 | 240 |
| 207-08-9 | Benzo(k)fluoranthene | 1740 | | 61 | 120 | 240 | 240 |
| 65-85-0 | Benzoic acid | 506 | J | 490 | 1100 | 2200 | 2200 |
| 100-51-6 | Benzyl alcohol | 240 | U | 61 | 240 | 490 | 490 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 49 | 120 | 240 | 240 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 30 | 120 | 240 | 240 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-118-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.58 (g/L) | CTL Sample ID: | 1568839 |
| % Solids: | 77.9 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 17:18 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 120 | U | 61 | 120 | 240 | 240 |
| 85-68-7 | Butylbenzylphthalate | 240 | U | 97 | 240 | 490 | 490 |
| 86-74-8 | Carbazole | 1250 | | 73 | 240 | 490 | 490 |
| 218-01-9 | Chrysene | 3600 | | 49 | 120 | 240 | 240 |
| 53-70-3 | Dibenzo(a,h)anthracene | 407 | | 61 | 120 | 240 | 240 |
| 132-64-9 | Dibenzofuran | 264 | | 49 | 120 | 240 | 240 |
| 84-66-2 | Diethylphthalate | 120 | U | 49 | 120 | 240 | 240 |
| 131-11-3 | Dimethylphthalate | 120 | U | 30 | 120 | 240 | 240 |
| 84-74-2 | Di-n-butylphthalate | 240 | U | 61 | 240 | 490 | 490 |
| 117-84-0 | Di-n-octylphthalate | 120 | U | 49 | 120 | 240 | 240 |
| 86-73-7 | Fluorene | 402 | | 30 | 120 | 240 | 240 |
| 118-74-1 | Hexachlorobenzene | 120 | U | 61 | 120 | 240 | 240 |
| 87-68-3 | Hexachlorobutadiene | 120 | U | 30 | 120 | 240 | 240 |
| 77-47-4 | Hexachlorocyclopentadiene | 120 | U Q,Z | 61 | 120 | 240 | 240 |
| 67-72-1 | Hexachloroethane | 120 | U | 30 | 120 | 240 | 240 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1470 | | 49 | 120 | 240 | 240 |
| 78-59-1 | Isophorone | 120 | U | 49 | 120 | 240 | 240 |
| 91-20-3 | Naphthalene | 86.6 | J | 49 | 120 | 240 | 240 |
| 98-95-3 | Nitrobenzene | 120 | U | 49 | 120 | 240 | 240 |
| 62-75-9 | N-Nitrosodimethylamine | 240 | U | 95 | 240 | 490 | 490 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 120 | U | 61 | 120 | 240 | 240 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 240 | U | 120 | 240 | 490 | 490 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-118-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.58 (g/L) | CTL Sample ID: | 1568839 |
| % Solids: | 77.9 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 17:18 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 930-55-2 | N-Nitrosopyrrolidine | 120 | U | 49 | 120 | 240 | 240 |
| 87-86-5 | Pentachlorophenol | 610 | U | 240 | 610 | 1200 | 1200 |
| 85-01-8 | Phenanthrene | 5380 | | 49 | 120 | 240 | 240 |
| 108-95-2 | Phenol | 610 | U | 240 | 610 | 1200 | 1200 |
| 129-00-0 | Pyrene | 6000 | | 61 | 120 | 240 | 240 |
| 110-86-1 | Pyridine | 240 | U | 85 | 240 | 490 | 490 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-119-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.57 (g/L) | CTL Sample ID: | 1568842 |
| % Solids: | 76.4 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 50 |
| Date & Time Analyzed: | 04/11/2025 / 18:00 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 56-55-3 | Benzo(a)anthracene | 79600 | | 2500 | 6200 | 12000 | 12000 |
| 205-99-2 | Benzo(b)fluoranthene | 108000 | | 3100 | 6200 | 12000 | 12000 |
| 206-44-0 | Fluoranthene | 202000 | | 2500 | 6200 | 12000 | 12000 |
| 85-01-8 | Phenanthrene | 149000 | | 2500 | 6200 | 12000 | 12000 |
| 129-00-0 | Pyrene | 144000 | | 3100 | 6200 | 12000 | 12000 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-119-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.57 (g/L) | CTL Sample ID: | 1568842 |
| % Solids: | 76.4 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/10/2025 / 23:30 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 2500 | U | 1000 | 2500 | 5000 | 5000 |
| 95-50-1 | 1,2-Dichlorobenzene | 1200 | U | 500 | 1200 | 2500 | 2500 |
| 541-73-1 | 1,3-Dichlorobenzene | 1200 | U | 500 | 1200 | 2500 | 2500 |
| 106-46-7 | 1,4-Dichlorobenzene | 1200 | U | 500 | 1200 | 2500 | 2500 |
| 90-12-0 | 1-Methylnaphthalene | 1520 | J | 310 | 1200 | 2500 | 2500 |
| 95-95-4 | 2,4,5-Trichlorophenol | 6200 | U | 1900 | 6200 | 12000 | 12000 |
| 88-06-2 | 2,4,6-Trichlorophenol | 6200 | U | 1900 | 6200 | 12000 | 12000 |
| 120-83-2 | 2,4-Dichlorophenol | 6200 | U | 1900 | 6200 | 12000 | 12000 |
| 105-67-9 | 2,4-Dimethylphenol | 6200 | U | 1900 | 6200 | 12000 | 12000 |
| 51-28-5 | 2,4-Dinitrophenol | 6200 | U | 2500 | 6200 | 12000 | 12000 |
| 121-14-2 | 2,4-Dinitrotoluene | 1200 | U | 620 | 1200 | 2500 | 2500 |
| 87-65-0 | 2,6-Dichlorophenol | 6200 | U | 1900 | 6200 | 12000 | 12000 |
| 606-20-2 | 2,6-Dinitrotoluene | 1200 | U | 620 | 1200 | 2500 | 2500 |
| 91-58-7 | 2-Chloronaphthalene | 1200 | U | 500 | 1200 | 2500 | 2500 |
| 95-57-8 | 2-Chlorophenol | 6200 | U | 1900 | 6200 | 12000 | 12000 |
| 91-57-6 | 2-Methylnaphthalene | 2350 | J | 310 | 1200 | 2500 | 2500 |
| 95-48-7 | 2-Methylphenol | 6200 | U | 2500 | 6200 | 12000 | 12000 |
| 88-74-4 | 2-Nitroaniline | 2500 | U | 990 | 2500 | 5000 | 5000 |
| 88-75-5 | 2-Nitrophenol | 6200 | U | 1900 | 6200 | 12000 | 12000 |
| 1319-77-3 | 3 & 4-Methylphenol | 12000 | U | 3700 | 12000 | 25000 | 25000 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2500 | U | 990 | 2500 | 5000 | 5000 |
| 99-09-2 | 3-Nitroaniline | 1200 | U | 500 | 1200 | 2500 | 2500 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-119-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.57 (g/L) | CTL Sample ID: | 1568842 |
| % Solids: | 76.4 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/10/2025 / 23:30 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 6200 | U | 2500 | 6200 | 12000 | 12000 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 1200 | U | 620 | 1200 | 2500 | 2500 |
| 59-50-7 | 4-Chloro-3-methylphenol | 6200 | U | 2500 | 6200 | 12000 | 12000 |
| 106-47-8 | 4-Chloroaniline | 2500 | U | 620 | 2500 | 5000 | 5000 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 1200 | U | 310 | 1200 | 2500 | 2500 |
| 100-01-6 | 4-Nitroaniline | 1200 | U | 500 | 1200 | 2500 | 2500 |
| 100-02-7 | 4-Nitrophenol | 6200 | U | 3700 | 6200 | 12000 | 12000 |
| 83-32-9 | Acenaphthene | 13400 | | 870 | 2500 | 5000 | 5000 |
| 208-96-8 | Acenaphthylene | 1200 | U | 620 | 1200 | 2500 | 2500 |
| 62-53-3 | Aniline | 2500 | U | 1200 | 2500 | 5000 | 5000 |
| 120-12-7 | Anthracene | 24300 | | 500 | 1200 | 2500 | 2500 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 2500 | U | 620 | 2500 | 5000 | 5000 |
| 92-87-5 | Benzidine | 25000 | U Z | 12000 | 25000 | 50000 | 50000 |
| 50-32-8 | Benzo(a)pyrene | 56400 | | 500 | 1200 | 2500 | 2500 |
| 191-24-2 | Benzo(g,h,i)perylene | 15800 | Z | 500 | 1200 | 2500 | 2500 |
| 207-08-9 | Benzo(k)fluoranthene | 32600 | | 620 | 1200 | 2500 | 2500 |
| 65-85-0 | Benzoic acid | 11000 | U | 5000 | 11000 | 22000 | 22000 |
| 100-51-6 | Benzyl alcohol | 2500 | U | 620 | 2500 | 5000 | 5000 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1200 | U | 500 | 1200 | 2500 | 2500 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1200 | U | 310 | 1200 | 2500 | 2500 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1200 | U | 620 | 1200 | 2500 | 2500 |
| 85-68-7 | Butylbenzylphthalate | 2500 | U | 990 | 2500 | 5000 | 5000 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-119-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.57 (g/L) | CTL Sample ID: | 1568842 |
| % Solids: | 76.4 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/10/2025 / 23:30 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 86-74-8 | Carbazole | 25000 | | 740 | 2500 | 5000 | 5000 |
| 218-01-9 | Chrysene | 59700 | | 500 | 1200 | 2500 | 2500 |
| 53-70-3 | Dibenzo(a,h)anthracene | 5010 | | 620 | 1200 | 2500 | 2500 |
| 132-64-9 | Dibenzofuran | 7360 | | 500 | 1200 | 2500 | 2500 |
| 84-66-2 | Diethylphthalate | 1200 | U | 500 | 1200 | 2500 | 2500 |
| 131-11-3 | Dimethylphthalate | 1200 | U | 310 | 1200 | 2500 | 2500 |
| 84-74-2 | Di-n-butylphthalate | 2500 | U | 620 | 2500 | 5000 | 5000 |
| 117-84-0 | Di-n-octylphthalate | 1200 | U | 500 | 1200 | 2500 | 2500 |
| 86-73-7 | Fluorene | 11600 | | 310 | 1200 | 2500 | 2500 |
| 118-74-1 | Hexachlorobenzene | 1200 | U | 620 | 1200 | 2500 | 2500 |
| 87-68-3 | Hexachlorobutadiene | 1200 | U | 310 | 1200 | 2500 | 2500 |
| 77-47-4 | Hexachlorocyclopentadiene | 1200 | U Q,Z | 620 | 1200 | 2500 | 2500 |
| 67-72-1 | Hexachloroethane | 1200 | U | 310 | 1200 | 2500 | 2500 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 17000 | | 500 | 1200 | 2500 | 2500 |
| 78-59-1 | Isophorone | 1200 | U | 500 | 1200 | 2500 | 2500 |
| 91-20-3 | Naphthalene | 4410 | | 500 | 1200 | 2500 | 2500 |
| 98-95-3 | Nitrobenzene | 1200 | U | 500 | 1200 | 2500 | 2500 |
| 62-75-9 | N-Nitrosodimethylamine | 2500 | U | 970 | 2500 | 5000 | 5000 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1200 | U | 620 | 1200 | 2500 | 2500 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 2500 | U | 1200 | 2500 | 5000 | 5000 |
| 930-55-2 | N-Nitrosopyrrolidine | 1200 | U | 500 | 1200 | 2500 | 2500 |
| 87-86-5 | Pentachlorophenol | 6200 | U | 2500 | 6200 | 12000 | 12000 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-119-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.57 (g/L) | CTL Sample ID: | 1568842 |
| % Solids: | 76.4 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 10 |
| Date & Time Analyzed: | 04/10/2025 / 23:30 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 108-95-2 | Phenol | 6200 | U | 2500 | 6200 | 12000 | 12000 |
| 110-86-1 | Pyridine | 2500 | U | 870 | 2500 | 5000 | 5000 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-120-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.46 (g/L) | CTL Sample ID: | 1568843 |
| % Solids: | 84.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 5 |
| Date & Time Analyzed: | 04/11/2025 / 15:18 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 56-55-3 | Benzo(a)anthracene | 7070 | | 230 | 560 | 1100 | 1100 |
| 50-32-8 | Benzo(a)pyrene | 6830 | | 230 | 560 | 1100 | 1100 |
| 205-99-2 | Benzo(b)fluoranthene | 10600 | | 280 | 560 | 1100 | 1100 |
| 218-01-9 | Chrysene | 7460 | | 230 | 560 | 1100 | 1100 |
| 206-44-0 | Fluoranthene | 18500 | | 230 | 560 | 1100 | 1100 |
| 85-01-8 | Phenanthrene | 12500 | | 230 | 560 | 1100 | 1100 |
| 129-00-0 | Pyrene | 13400 | | 280 | 560 | 1100 | 1100 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-120-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.46 (g/L) | CTL Sample ID: | 1568843 |
| % Solids: | 84.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 21:10 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 230 | U | 94 | 230 | 450 | 450 |
| 95-50-1 | 1,2-Dichlorobenzene | 110 | U | 45 | 110 | 230 | 230 |
| 541-73-1 | 1,3-Dichlorobenzene | 110 | U | 45 | 110 | 230 | 230 |
| 106-46-7 | 1,4-Dichlorobenzene | 110 | U | 45 | 110 | 230 | 230 |
| 90-12-0 | 1-Methylnaphthalene | 91.0 | J | 28 | 110 | 230 | 230 |
| 95-95-4 | 2,4,5-Trichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 88-06-2 | 2,4,6-Trichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 120-83-2 | 2,4-Dichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 105-67-9 | 2,4-Dimethylphenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 51-28-5 | 2,4-Dinitrophenol | 560 | U | 230 | 560 | 1100 | 1100 |
| 121-14-2 | 2,4-Dinitrotoluene | 110 | U | 56 | 110 | 230 | 230 |
| 87-65-0 | 2,6-Dichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 606-20-2 | 2,6-Dinitrotoluene | 110 | U | 56 | 110 | 230 | 230 |
| 91-58-7 | 2-Chloronaphthalene | 110 | U | 45 | 110 | 230 | 230 |
| 95-57-8 | 2-Chlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 91-57-6 | 2-Methylnaphthalene | 119 | J | 28 | 110 | 230 | 230 |
| 95-48-7 | 2-Methylphenol | 560 | U | 230 | 560 | 1100 | 1100 |
| 88-74-4 | 2-Nitroaniline | 230 | U | 90 | 230 | 450 | 450 |
| 88-75-5 | 2-Nitrophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 1319-77-3 | 3 & 4-Methylphenol | 1100 | U | 340 | 1100 | 2300 | 2300 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 230 | U | 90 | 230 | 450 | 450 |
| 99-09-2 | 3-Nitroaniline | 110 | U | 45 | 110 | 230 | 230 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-120-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.46 (g/L) | CTL Sample ID: | 1568843 |
| % Solids: | 84.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 21:10 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 560 | U | 230 | 560 | 1100 | 1100 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 110 | U | 56 | 110 | 230 | 230 |
| 59-50-7 | 4-Chloro-3-methylphenol | 560 | U | 230 | 560 | 1100 | 1100 |
| 106-47-8 | 4-Chloroaniline | 230 | U | 56 | 230 | 450 | 450 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 110 | U | 28 | 110 | 230 | 230 |
| 100-01-6 | 4-Nitroaniline | 110 | U | 45 | 110 | 230 | 230 |
| 100-02-7 | 4-Nitrophenol | 560 | U | 340 | 560 | 1100 | 1100 |
| 83-32-9 | Acenaphthene | 1070 | | 79 | 230 | 450 | 450 |
| 208-96-8 | Acenaphthylene | 66.1 | J | 56 | 110 | 230 | 230 |
| 62-53-3 | Aniline | 230 | U | 110 | 230 | 450 | 450 |
| 120-12-7 | Anthracene | 1930 | | 45 | 110 | 230 | 230 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 230 | U | 56 | 230 | 450 | 450 |
| 92-87-5 | Benzidine | 2300 | U Z | 1100 | 2300 | 4500 | 4500 |
| 191-24-2 | Benzo(g,h,i)perylene | 1690 | Z | 45 | 110 | 230 | 230 |
| 207-08-9 | Benzo(k)fluoranthene | 3500 | | 56 | 110 | 230 | 230 |
| 65-85-0 | Benzoic acid | 1000 | U | 450 | 1000 | 2000 | 2000 |
| 100-51-6 | Benzyl alcohol | 230 | U | 56 | 230 | 450 | 450 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 110 | U | 45 | 110 | 230 | 230 |
| 111-44-4 | Bis(2-chloroethyl)ether | 110 | U | 28 | 110 | 230 | 230 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 90.7 | J | 56 | 110 | 230 | 230 |
| 85-68-7 | Butylbenzylphthalate | 230 | U | 90 | 230 | 450 | 450 |
| 86-74-8 | Carbazole | 2140 | | 68 | 230 | 450 | 450 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-120-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.46 (g/L) | CTL Sample ID: | 1568843 |
| % Solids: | 84.7 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 21:10 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 53-70-3 | Dibenzo(a,h)anthracene | 504 | | 56 | 110 | 230 | 230 |
| 132-64-9 | Dibenzofuran | 502 | | 45 | 110 | 230 | 230 |
| 84-66-2 | Diethylphthalate | 110 | U | 45 | 110 | 230 | 230 |
| 131-11-3 | Dimethylphthalate | 110 | U | 28 | 110 | 230 | 230 |
| 84-74-2 | Di-n-butylphthalate | 230 | U | 56 | 230 | 450 | 450 |
| 117-84-0 | Di-n-octylphthalate | 110 | U | 45 | 110 | 230 | 230 |
| 86-73-7 | Fluorene | 845 | | 28 | 110 | 230 | 230 |
| 118-74-1 | Hexachlorobenzene | 110 | U | 56 | 110 | 230 | 230 |
| 87-68-3 | Hexachlorobutadiene | 110 | U | 28 | 110 | 230 | 230 |
| 77-47-4 | Hexachlorocyclopentadiene | 110 | U Q,Z | 56 | 110 | 230 | 230 |
| 67-72-1 | Hexachloroethane | 110 | U | 28 | 110 | 230 | 230 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1800 | | 45 | 110 | 230 | 230 |
| 78-59-1 | Isophorone | 110 | U | 45 | 110 | 230 | 230 |
| 91-20-3 | Naphthalene | 188 | J | 45 | 110 | 230 | 230 |
| 98-95-3 | Nitrobenzene | 110 | U | 45 | 110 | 230 | 230 |
| 62-75-9 | N-Nitrosodimethylamine | 230 | U | 88 | 230 | 450 | 450 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 110 | U | 56 | 110 | 230 | 230 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 230 | U | 110 | 230 | 450 | 450 |
| 930-55-2 | N-Nitrosopyrrolidine | 110 | U | 45 | 110 | 230 | 230 |
| 87-86-5 | Pentachlorophenol | 560 | U | 230 | 560 | 1100 | 1100 |
| 108-95-2 | Phenol | 560 | U | 230 | 560 | 1100 | 1100 |
| 110-86-1 | Pyridine | 230 | U | 79 | 230 | 450 | 450 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-121-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.19 (g/L) | CTL Sample ID: | 1568845 |
| % Solids: | 79.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 2 |
| Date & Time Analyzed: | 04/11/2025 / 16:04 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 206-44-0 | Fluoranthene | 9730 | | 99 | 250 | 500 | 500 |
| 129-00-0 | Pyrene | 6890 | | 120 | 250 | 500 | 500 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-121-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.19 (g/L) | CTL Sample ID: | 1568845 |
| % Solids: | 79.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 21:34 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 250 | U | 100 | 250 | 500 | 500 |
| 95-50-1 | 1,2-Dichlorobenzene | 120 | U | 50 | 120 | 250 | 250 |
| 541-73-1 | 1,3-Dichlorobenzene | 120 | U | 50 | 120 | 250 | 250 |
| 106-46-7 | 1,4-Dichlorobenzene | 120 | U | 50 | 120 | 250 | 250 |
| 90-12-0 | 1-Methylnaphthalene | 43.5 | J | 31 | 120 | 250 | 250 |
| 95-95-4 | 2,4,5-Trichlorophenol | 620 | U | 190 | 620 | 1200 | 1200 |
| 88-06-2 | 2,4,6-Trichlorophenol | 620 | U | 190 | 620 | 1200 | 1200 |
| 120-83-2 | 2,4-Dichlorophenol | 620 | U | 190 | 620 | 1200 | 1200 |
| 105-67-9 | 2,4-Dimethylphenol | 620 | U | 190 | 620 | 1200 | 1200 |
| 51-28-5 | 2,4-Dinitrophenol | 620 | U | 250 | 620 | 1200 | 1200 |
| 121-14-2 | 2,4-Dinitrotoluene | 120 | U | 62 | 120 | 250 | 250 |
| 87-65-0 | 2,6-Dichlorophenol | 620 | U | 190 | 620 | 1200 | 1200 |
| 606-20-2 | 2,6-Dinitrotoluene | 120 | U | 62 | 120 | 250 | 250 |
| 91-58-7 | 2-Chloronaphthalene | 120 | U | 50 | 120 | 250 | 250 |
| 95-57-8 | 2-Chlorophenol | 620 | U | 190 | 620 | 1200 | 1200 |
| 91-57-6 | 2-Methylnaphthalene | 50.7 | J | 31 | 120 | 250 | 250 |
| 95-48-7 | 2-Methylphenol | 620 | U | 250 | 620 | 1200 | 1200 |
| 88-74-4 | 2-Nitroaniline | 250 | U | 99 | 250 | 500 | 500 |
| 88-75-5 | 2-Nitrophenol | 620 | U | 190 | 620 | 1200 | 1200 |
| 1319-77-3 | 3 & 4-Methylphenol | 1200 | U | 370 | 1200 | 2500 | 2500 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 250 | U | 99 | 250 | 500 | 500 |
| 99-09-2 | 3-Nitroaniline | 120 | U | 50 | 120 | 250 | 250 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-121-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.19 (g/L) | CTL Sample ID: | 1568845 |
| % Solids: | 79.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 21:34 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 620 | U | 250 | 620 | 1200 | 1200 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 120 | U | 62 | 120 | 250 | 250 |
| 59-50-7 | 4-Chloro-3-methylphenol | 620 | U | 250 | 620 | 1200 | 1200 |
| 106-47-8 | 4-Chloroaniline | 250 | U | 62 | 250 | 500 | 500 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 120 | U | 31 | 120 | 250 | 250 |
| 100-01-6 | 4-Nitroaniline | 120 | U | 50 | 120 | 250 | 250 |
| 100-02-7 | 4-Nitrophenol | 620 | U | 370 | 620 | 1200 | 1200 |
| 83-32-9 | Acenaphthene | 577 | | 87 | 250 | 500 | 500 |
| 208-96-8 | Acenaphthylene | 120 | U | 62 | 120 | 250 | 250 |
| 62-53-3 | Aniline | 250 | U | 120 | 250 | 500 | 500 |
| 120-12-7 | Anthracene | 1090 | | 50 | 120 | 250 | 250 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 250 | U | 62 | 250 | 500 | 500 |
| 92-87-5 | Benzidine | 2500 | U Z | 1200 | 2500 | 5000 | 5000 |
| 56-55-3 | Benzo(a)anthracene | 3540 | | 50 | 120 | 250 | 250 |
| 50-32-8 | Benzo(a)pyrene | 3420 | | 50 | 120 | 250 | 250 |
| 205-99-2 | Benzo(b)fluoranthene | 6100 | | 62 | 120 | 250 | 250 |
| 191-24-2 | Benzo(g,h,i)perylene | 908 | Z | 50 | 120 | 250 | 250 |
| 207-08-9 | Benzo(k)fluoranthene | 2170 | | 62 | 120 | 250 | 250 |
| 65-85-0 | Benzoic acid | 558 | J | 500 | 1100 | 2200 | 2200 |
| 100-51-6 | Benzyl alcohol | 250 | U | 62 | 250 | 500 | 500 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 120 | U | 50 | 120 | 250 | 250 |
| 111-44-4 | Bis(2-chloroethyl)ether | 120 | U | 31 | 120 | 250 | 250 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-121-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.19 (g/L) | CTL Sample ID: | 1568845 |
| % Solids: | 79.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 21:34 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 79.4 | J | 62 | 120 | 250 | 250 |
| 85-68-7 | Butylbenzylphthalate | 250 | U | 99 | 250 | 500 | 500 |
| 86-74-8 | Carbazole | 1170 | | 74 | 250 | 500 | 500 |
| 218-01-9 | Chrysene | 3600 | | 50 | 120 | 250 | 250 |
| 53-70-3 | Dibenzo(a,h)anthracene | 278 | | 62 | 120 | 250 | 250 |
| 132-64-9 | Dibenzofuran | 230 | J | 50 | 120 | 250 | 250 |
| 84-66-2 | Diethylphthalate | 120 | U | 50 | 120 | 250 | 250 |
| 131-11-3 | Dimethylphthalate | 120 | U | 31 | 120 | 250 | 250 |
| 84-74-2 | Di-n-butylphthalate | 250 | U | 62 | 250 | 500 | 500 |
| 117-84-0 | Di-n-octylphthalate | 120 | U | 50 | 120 | 250 | 250 |
| 86-73-7 | Fluorene | 452 | | 31 | 120 | 250 | 250 |
| 118-74-1 | Hexachlorobenzene | 120 | U | 62 | 120 | 250 | 250 |
| 87-68-3 | Hexachlorobutadiene | 120 | U | 31 | 120 | 250 | 250 |
| 77-47-4 | Hexachlorocyclopentadiene | 120 | U Q,Z | 62 | 120 | 250 | 250 |
| 67-72-1 | Hexachloroethane | 120 | U | 31 | 120 | 250 | 250 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1000 | | 50 | 120 | 250 | 250 |
| 78-59-1 | Isophorone | 120 | U | 50 | 120 | 250 | 250 |
| 91-20-3 | Naphthalene | 80.5 | J | 50 | 120 | 250 | 250 |
| 98-95-3 | Nitrobenzene | 120 | U | 50 | 120 | 250 | 250 |
| 62-75-9 | N-Nitrosodimethylamine | 250 | U | 97 | 250 | 500 | 500 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 120 | U | 62 | 120 | 250 | 250 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 250 | U | 120 | 250 | 500 | 500 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description

**SB-121-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.19 (g/L) | CTL Sample ID: | 1568845 |
| % Solids: | 79.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 21:34 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 930-55-2 | N-Nitrosopyrrolidine | 120 | U | 50 | 120 | 250 | 250 |
| 87-86-5 | Pentachlorophenol | 620 | U | 250 | 620 | 1200 | 1200 |
| 85-01-8 | Phenanthrene | 5280 | | 50 | 120 | 250 | 250 |
| 108-95-2 | Phenol | 620 | U | 250 | 620 | 1200 | 1200 |
| 110-86-1 | Pyridine | 250 | U | 87 | 250 | 500 | 500 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-122-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.21 (g/L) | CTL Sample ID: | 1568844 |
| % Solids: | 88.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 5 |
| Date & Time Analyzed: | 04/11/2025 / 14:32 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , ,

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 56-55-3 | Benzo(a)anthracene | 8210 | | 220 | 560 | 1100 | 1100 |
| 50-32-8 | Benzo(a)pyrene | 7800 | | 220 | 560 | 1100 | 1100 |
| 205-99-2 | Benzo(b)fluoranthene | 11500 | | 280 | 560 | 1100 | 1100 |
| 218-01-9 | Chrysene | 8520 | | 220 | 560 | 1100 | 1100 |
| 206-44-0 | Fluoranthene | 20500 | | 220 | 560 | 1100 | 1100 |
| 85-01-8 | Phenanthrene | 12200 | | 220 | 560 | 1100 | 1100 |
| 129-00-0 | Pyrene | 14800 | | 280 | 560 | 1100 | 1100 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-122-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.21 (g/L) | CTL Sample ID: | 1568844 |
| % Solids: | 88.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 20:01 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 220 | U | 92 | 220 | 440 | 440 |
| 95-50-1 | 1,2-Dichlorobenzene | 110 | U | 44 | 110 | 220 | 220 |
| 541-73-1 | 1,3-Dichlorobenzene | 110 | U | 44 | 110 | 220 | 220 |
| 106-46-7 | 1,4-Dichlorobenzene | 110 | U | 44 | 110 | 220 | 220 |
| 90-12-0 | 1-Methylnaphthalene | 78.7 | J | 28 | 110 | 220 | 220 |
| 95-95-4 | 2,4,5-Trichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 88-06-2 | 2,4,6-Trichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 120-83-2 | 2,4-Dichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 105-67-9 | 2,4-Dimethylphenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 51-28-5 | 2,4-Dinitrophenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 121-14-2 | 2,4-Dinitrotoluene | 110 | U | 56 | 110 | 220 | 220 |
| 87-65-0 | 2,6-Dichlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 606-20-2 | 2,6-Dinitrotoluene | 110 | U | 56 | 110 | 220 | 220 |
| 91-58-7 | 2-Chloronaphthalene | 110 | U | 44 | 110 | 220 | 220 |
| 95-57-8 | 2-Chlorophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 91-57-6 | 2-Methylnaphthalene | 90.0 | J | 28 | 110 | 220 | 220 |
| 95-48-7 | 2-Methylphenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 88-74-4 | 2-Nitroaniline | 220 | U | 89 | 220 | 440 | 440 |
| 88-75-5 | 2-Nitrophenol | 560 | U | 170 | 560 | 1100 | 1100 |
| 1319-77-3 | 3 & 4-Methylphenol | 1100 | U | 330 | 1100 | 2200 | 2200 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 220 | U | 89 | 220 | 440 | 440 |
| 99-09-2 | 3-Nitroaniline | 110 | U | 44 | 110 | 220 | 220 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-122-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.21 (g/L) | CTL Sample ID: | 1568844 |
| % Solids: | 88.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 20:01 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 110 | U | 56 | 110 | 220 | 220 |
| 59-50-7 | 4-Chloro-3-methylphenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 106-47-8 | 4-Chloroaniline | 220 | U | 56 | 220 | 440 | 440 |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 110 | U | 28 | 110 | 220 | 220 |
| 100-01-6 | 4-Nitroaniline | 110 | U | 44 | 110 | 220 | 220 |
| 100-02-7 | 4-Nitrophenol | 560 | U | 330 | 560 | 1100 | 1100 |
| 83-32-9 | Acenaphthene | 1010 | | 78 | 220 | 440 | 440 |
| 208-96-8 | Acenaphthylene | 149 | J | 56 | 110 | 220 | 220 |
| 62-53-3 | Aniline | 220 | U | 110 | 220 | 440 | 440 |
| 120-12-7 | Anthracene | 1820 | | 44 | 110 | 220 | 220 |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 220 | U | 56 | 220 | 440 | 440 |
| 92-87-5 | Benzidine | 2200 | U Z | 1100 | 2200 | 4400 | 4400 |
| 191-24-2 | Benzo(g,h,i)perylene | 1860 | Z | 44 | 110 | 220 | 220 |
| 207-08-9 | Benzo(k)fluoranthene | 3810 | | 56 | 110 | 220 | 220 |
| 65-85-0 | Benzoic acid | 1000 | U | 440 | 1000 | 2000 | 2000 |
| 100-51-6 | Benzyl alcohol | 220 | U | 56 | 220 | 440 | 440 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 110 | U | 44 | 110 | 220 | 220 |
| 111-44-4 | Bis(2-chloroethyl)ether | 110 | U | 28 | 110 | 220 | 220 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 103 | J | 56 | 110 | 220 | 220 |
| 85-68-7 | Butylbenzylphthalate | 220 | U | 89 | 220 | 440 | 440 |
| 86-74-8 | Carbazole | 2000 | | 67 | 220 | 440 | 440 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B**

***SEMIVOLATILE ORGANICS ANALYSIS***

Sample Description: **SB-122-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | SOIL | SDG No.: | 194024 |
| Sample wt/vol: | 10.21 (g/L) | CTL Sample ID: | 1568844 |
| % Solids: | 88.1 | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Date & Time Analyzed: | 04/10/2025 / 20:01 | GPC (3640A) Cleanup Date/Time: | / |

Additional Cleanups Date/Time: , , 04/08/2025 17:45 (Sulfur - 3660B)

TCLP (1311) / SPLP (1312) / MLP (1320) or ASTM D3987-85 Procedure Extraction Date (*if applicable*): /

ICAL Calibration #: 2S040925 Concentration Units: ug/kg

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 53-70-3 | Dibenzo(a,h)anthracene | 588 | | 56 | 110 | 220 | 220 |
| 132-64-9 | Dibenzofuran | 420 | | 44 | 110 | 220 | 220 |
| 84-66-2 | Diethylphthalate | 110 | U | 44 | 110 | 220 | 220 |
| 131-11-3 | Dimethylphthalate | 110 | U | 28 | 110 | 220 | 220 |
| 84-74-2 | Di-n-butylphthalate | 220 | U | 56 | 220 | 440 | 440 |
| 117-84-0 | Di-n-octylphthalate | 110 | U | 44 | 110 | 220 | 220 |
| 86-73-7 | Fluorene | 718 | | 28 | 110 | 220 | 220 |
| 118-74-1 | Hexachlorobenzene | 110 | U | 56 | 110 | 220 | 220 |
| 87-68-3 | Hexachlorobutadiene | 110 | U | 28 | 110 | 220 | 220 |
| 77-47-4 | Hexachlorocyclopentadiene | 110 | U Q,Z | 56 | 110 | 220 | 220 |
| 67-72-1 | Hexachloroethane | 110 | U | 28 | 110 | 220 | 220 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 2020 | | 44 | 110 | 220 | 220 |
| 78-59-1 | Isophorone | 110 | U | 44 | 110 | 220 | 220 |
| 91-20-3 | Naphthalene | 179 | J | 44 | 110 | 220 | 220 |
| 98-95-3 | Nitrobenzene | 110 | U | 44 | 110 | 220 | 220 |
| 62-75-9 | N-Nitrosodimethylamine | 220 | U | 87 | 220 | 440 | 440 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 110 | U | 56 | 110 | 220 | 220 |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 220 | U | 110 | 220 | 440 | 440 |
| 930-55-2 | N-Nitrosopyrrolidine | 110 | U | 44 | 110 | 220 | 220 |
| 87-86-5 | Pentachlorophenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 108-95-2 | Phenol | 560 | U | 220 | 560 | 1100 | 1100 |
| 110-86-1 | Pyridine | 220 | U | 78 | 220 | 440 | 440 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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**1B-2**

***SEMIVOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | (g/L) | CTL Sample ID: | 1569377 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/07/2025 / 11:10 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138277 |
| Analytical Run #: | 290647 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | 2S040725 | Concentration Units: | ug/L |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 92-52-4 | 1,1'-Biphenyl | 04/08/2025 | 13:35 | 0.30 | U | 0.30 | 2.0 | ***1.0*** |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 04/08/2025 | 13:35 | 0.32 | U | 0.32 | 2.0 | ***1.0*** |
| 120-82-1 | 1,2,4-Trichlorobenzene | 04/08/2025 | 13:35 | 0.29 | U | 0.29 | 2.0 | ***1.0*** |
| 95-50-1 | 1,2-Dichlorobenzene | 04/08/2025 | 13:35 | 0.23 | U | 0.23 | 2.0 | ***1.0*** |
| 541-73-1 | 1,3-Dichlorobenzene | 04/08/2025 | 13:35 | 0.24 | U | 0.24 | 2.0 | ***1.0*** |
| 106-46-7 | 1,4-Dichlorobenzene | 04/08/2025 | 13:35 | 0.27 | U | 0.27 | 2.0 | ***1.0*** |
| 90-12-0 | 1-Methylnaphthalene | 04/08/2025 | 13:35 | 0.25 | U | 0.25 | 2.0 | ***1.0*** |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 04/08/2025 | 13:35 | 2.0 | U | 2.0 | 10 | ***5*** |
| 95-95-4 | 2,4,5-Trichlorophenol | 04/08/2025 | 13:35 | 1.9 | U | 1.9 | 10 | ***5*** |
| 88-06-2 | 2,4,6-Trichlorophenol | 04/08/2025 | 13:35 | 1.7 | U | 1.7 | 10 | ***5*** |
| 120-83-2 | 2,4-Dichlorophenol | 04/08/2025 | 13:35 | 1.3 | U | 1.3 | 10 | ***5*** |
| 105-67-9 | 2,4-Dimethylphenol | 04/08/2025 | 13:35 | 1.6 | U | 1.6 | 10 | ***5*** |
| 51-28-5 | 2,4-Dinitrophenol | 04/08/2025 | 13:35 | 3.3 | U | 3.3 | 11 | ***5.5*** |
| 121-14-2 | 2,4-Dinitrotoluene | 04/08/2025 | 13:35 | 0.25 | U | 0.25 | 2.0 | ***1.0*** |
| 87-65-0 | 2,6-Dichlorophenol | 04/08/2025 | 13:35 | 1.7 | U | 1.7 | 10 | ***5*** |
| 606-20-2 | 2,6-Dinitrotoluene | 04/08/2025 | 13:35 | 0.30 | U | 0.30 | 2.0 | ***1.0*** |
| 91-58-7 | 2-Chloronaphthalene | 04/08/2025 | 13:35 | 0.31 | U | 0.31 | 2.0 | ***1.0*** |
| 95-57-8 | 2-Chlorophenol | 04/08/2025 | 13:35 | 1.4 | U | 1.4 | 10 | ***5*** |
| 91-57-6 | 2-Methylnaphthalene | 04/08/2025 | 13:35 | 0.24 | U | 0.24 | 2.0 | ***1.0*** |
| 95-48-7 | 2-Methylphenol | 04/08/2025 | 13:35 | 1.5 | U | 1.5 | 10 | ***5*** |
| 88-74-4 | 2-Nitroaniline | 04/08/2025 | 13:35 | 0.65 | U | 0.65 | 4.0 | ***2.0*** |
| 88-75-5 | 2-Nitrophenol | 04/08/2025 | 13:35 | 1.3 | U | 1.3 | 10 | ***5*** |
| 1319-77-3 | 3 & 4-Methylphenol | 04/08/2025 | 13:35 | 3.4 | U | 3.4 | 18 | ***9*** |

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**1B-2**

***SEMIVOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | (g/L) | CTL Sample ID: | 1569377 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/07/2025 / 11:10 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138277 |
| Analytical Run #: | 290647 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | 2S040725 | Concentration Units: | ug/L |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 91-94-1 | 3,3'-Dichlorobenzidine | 04/08/2025 | 13:35 | 0.66 | U | 0.66 | 5.0 | ***2.5*** |
| 99-09-2 | 3-Nitroaniline | 04/08/2025 | 13:35 | 1.0 | U | 1.0 | 4.0 | ***2.0*** |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 04/08/2025 | 13:35 | 1.3 | U | 1.3 | 10 | ***5*** |
| 101-55-3 | 4-Bromophenyl-phenyl ether | 04/08/2025 | 13:35 | 0.25 | U | 0.25 | 2.0 | ***1.0*** |
| 59-50-7 | 4-Chloro-3-methylphenol | 04/08/2025 | 13:35 | 1.3 | U | 1.3 | 10 | ***5*** |
| 106-47-8 | 4-Chloroaniline | 04/08/2025 | 13:35 | 0.51 | U | 0.51 | 4.0 | ***2.0*** |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 04/08/2025 | 13:35 | 0.35 | U | 0.35 | 2.0 | ***1.0*** |
| 100-01-6 | 4-Nitroaniline | 04/08/2025 | 13:35 | 0.51 | U | 0.51 | 4.0 | ***2.0*** |
| 100-02-7 | 4-Nitrophenol | 04/08/2025 | 13:35 | 2.0 | U | 2.0 | 10 | ***5*** |
| 83-32-9 | Acenaphthene | 04/08/2025 | 13:35 | 0.28 | U | 0.28 | 2.0 | ***1.0*** |
| 208-96-8 | Acenaphthylene | 04/08/2025 | 13:35 | 0.30 | U | 0.30 | 2.0 | ***1.0*** |
| 98-86-2 | Acetophenone | 04/08/2025 | 13:35 | 0.46 | U | 0.46 | 2.0 | ***1.0*** |
| 62-53-3 | Aniline | 04/08/2025 | 13:35 | 1.1 | U | 1.1 | 4.0 | ***2.0*** |
| 120-12-7 | Anthracene | 04/08/2025 | 13:35 | 0.40 | U | 0.40 | 2.0 | ***1.0*** |
| 1912-24-9 | Atrazine | 04/08/2025 | 13:35 | 0.47 | U | 0.47 | 2.0 | ***1.0*** |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 04/08/2025 | 13:35 | 0.50 | U | 0.50 | 4.0 | ***2.0*** |
| 100-52-7 | Benzaldehyde | 04/08/2025 | 13:35 | 0.29 | U | 0.29 | 2.0 | ***1.0*** |
| 92-87-5 | Benzidine | 04/08/2025 | 13:35 | 29 | UY | 29 | 200 | ***100*** |
| 56-55-3 | Benzo(a)anthracene | 04/08/2025 | 13:35 | 0.37 | U | 0.37 | 2.0 | ***1.0*** |
| 50-32-8 | Benzo(a)pyrene | 04/08/2025 | 13:35 | 0.34 | U | 0.34 | 2.0 | ***1.0*** |
| 205-99-2 | Benzo(b)fluoranthene | 04/08/2025 | 13:35 | 0.37 | U | 0.37 | 2.0 | ***1.0*** |
| 191-24-2 | Benzo(g,h,i)perylene | 04/08/2025 | 13:35 | 0.37 | U | 0.37 | 2.0 | ***1.0*** |
| 207-08-9 | Benzo(k)fluoranthene | 04/08/2025 | 13:35 | 0.25 | U | 0.25 | 2.0 | ***1.0*** |

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**1B-2**

***SEMIVOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | (g/L) | CTL Sample ID: | 1569377 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/07/2025 / 11:10 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138277 |
| Analytical Run #: | 290647 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | / | |
| ICAL Calibration #: | 2S040725 | Concentration Units: | ug/L |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | 04/08/2025 | 13:35 | 2.0 | UY | 2.0 | 10 | ***5*** |
| 100-51-6 | Benzyl alcohol | 04/08/2025 | 13:35 | 0.50 | U | 0.50 | 2.0 | ***1.0*** |
| 111-91-1 | Bis(2-chloroethoxy)methane | 04/08/2025 | 13:35 | 0.32 | U | 0.32 | 2.0 | ***1.0*** |
| 111-44-4 | Bis(2-chloroethyl)ether | 04/08/2025 | 13:35 | 0.40 | U | 0.40 | 2.0 | ***1.0*** |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 04/08/2025 | 13:35 | 0.40 | U | 0.40 | 2.0 | ***1.0*** |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 04/08/2025 | 13:35 | 0.26 | U | 0.26 | 2.0 | ***1.0*** |
| 85-68-7 | Butylbenzylphthalate | 04/08/2025 | 13:35 | 0.33 | U | 0.33 | 2.0 | ***1.0*** |
| 105-60-2 | Caprolactam | 04/08/2025 | 13:35 | 1.0 | U | 1.0 | 4.0 | ***2.0*** |
| 86-74-8 | Carbazole | 04/08/2025 | 13:35 | 0.65 | U | 0.65 | 4.0 | ***2.0*** |
| 218-01-9 | Chrysene | 04/08/2025 | 13:35 | 0.36 | U | 0.36 | 2.0 | ***1.0*** |
| 53-70-3 | Dibenzo(a,h)anthracene | 04/08/2025 | 13:35 | 0.36 | U | 0.36 | 2.0 | ***1.0*** |
| 132-64-9 | Dibenzofuran | 04/08/2025 | 13:35 | 0.32 | U | 0.32 | 2.0 | ***1.0*** |
| 84-66-2 | Diethylphthalate | 04/08/2025 | 13:35 | 0.29 | U | 0.29 | 2.0 | ***1.0*** |
| 131-11-3 | Dimethylphthalate | 04/08/2025 | 13:35 | 0.32 | U | 0.32 | 2.0 | ***1.0*** |
| 84-74-2 | Di-n-butylphthalate | 04/08/2025 | 13:35 | 0.389 | B | 0.35 | 2.0 | ***1.0*** |
| 117-84-0 | Di-n-octylphthalate | 04/08/2025 | 13:35 | 0.61 | U | 0.61 | 4.0 | ***2.0*** |
| 206-44-0 | Fluoranthene | 04/08/2025 | 13:35 | 0.27 | U | 0.27 | 2.0 | ***1.0*** |
| 86-73-7 | Fluorene | 04/08/2025 | 13:35 | 0.25 | U | 0.25 | 2.0 | ***1.0*** |
| 118-74-1 | Hexachlorobenzene | 04/08/2025 | 13:35 | 0.29 | U | 0.29 | 2.0 | ***1.0*** |
| 87-68-3 | Hexachlorobutadiene | 04/08/2025 | 13:35 | 0.29 | U | 0.29 | 2.0 | ***1.0*** |
| 77-47-4 | Hexachlorocyclopentadiene | 04/08/2025 | 13:35 | 0.32 | U | 0.32 | 2.0 | ***1.0*** |
| 67-72-1 | Hexachloroethane | 04/08/2025 | 13:35 | 0.31 | U | 0.31 | 2.0 | ***1.0*** |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 04/08/2025 | 13:35 | 0.39 | U | 0.39 | 2.0 | ***1.0*** |

CT LABORATORIES
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**1B-2**

***SEMIVOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | (g/L) | CTL Sample ID: | 1569377 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/07/2025 / 11:10 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138277 |
| Analytical Run #: | 290647 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | 2S040725 | Concentration Units: | ug/L |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 78-59-1 | Isophorone | 04/08/2025 | 13:35 | 0.26 | U | 0.26 | 2.0 | ***1.0*** |
| 91-20-3 | Naphthalene | 04/08/2025 | 13:35 | 0.35 | U | 0.35 | 2.0 | ***1.0*** |
| 98-95-3 | Nitrobenzene | 04/08/2025 | 13:35 | 0.30 | U | 0.30 | 2.0 | ***1.0*** |
| 62-75-9 | N-Nitrosodimethylamine | 04/08/2025 | 13:35 | 0.28 | U | 0.28 | 2.0 | ***1.0*** |
| 621-64-7 | N-Nitroso-di-n-propylamine | 04/08/2025 | 13:35 | 0.47 | U | 0.47 | 2.0 | ***1.0*** |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 04/08/2025 | 13:35 | 0.60 | U | 0.60 | 4.0 | ***2.0*** |
| 930-55-2 | N-Nitrosopyrrolidine | 04/08/2025 | 13:35 | 0.30 | U | 0.30 | 2.0 | ***1.0*** |
| 87-86-5 | Pentachlorophenol | 04/08/2025 | 13:35 | 1.6 | U | 1.6 | 10 | ***5*** |
| 85-01-8 | Phenanthrene | 04/08/2025 | 13:35 | 0.25 | U | 0.25 | 2.0 | ***1.0*** |
| 108-95-2 | Phenol | 04/08/2025 | 13:35 | 2.0 | U | 2.0 | 10 | ***5.0*** |
| 129-00-0 | Pyrene | 04/08/2025 | 13:35 | 0.32 | U | 0.32 | 2.0 | ***1.0*** |
| 110-86-1 | Pyridine | 04/08/2025 | 13:35 | 1.0 | UY | 1.0 | 2.0 | ***1.0*** |

CT LABORATORIES
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**1B-2**

***SEMIVOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | 10.00 (g/L) | CTL Sample ID: | 1569380 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . 04/08/2025 17:45 (Sulfur) . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | 2S040925 | Concentration Units: | ug/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | 04/10/2025 | 16:08 | 90 | U | 90 | 400 | ***200*** |
| 95-50-1 | 1,2-Dichlorobenzene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 541-73-1 | 1,3-Dichlorobenzene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 106-46-7 | 1,4-Dichlorobenzene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 90-12-0 | 1-Methylnaphthalene | 04/10/2025 | 16:08 | 25 | U | 25 | 200 | ***100*** |
| 95-95-4 | 2,4,5-Trichlorophenol | 04/10/2025 | 16:08 | 150 | U | 150 | 1000 | ***500*** |
| 88-06-2 | 2,4,6-Trichlorophenol | 04/10/2025 | 16:08 | 150 | U | 150 | 1000 | ***500*** |
| 120-83-2 | 2,4-Dichlorophenol | 04/10/2025 | 16:08 | 150 | U | 150 | 1000 | ***500*** |
| 105-67-9 | 2,4-Dimethylphenol | 04/10/2025 | 16:08 | 150 | U | 150 | 1000 | ***500*** |
| 51-28-5 | 2,4-Dinitrophenol | 04/10/2025 | 16:08 | 200 | U | 200 | 1000 | ***500*** |
| 121-14-2 | 2,4-Dinitrotoluene | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 87-65-0 | 2,6-Dichlorophenol | 04/10/2025 | 16:08 | 150 | U | 150 | 1000 | ***500*** |
| 606-20-2 | 2,6-Dinitrotoluene | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 91-58-7 | 2-Chloronaphthalene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 95-57-8 | 2-Chlorophenol | 04/10/2025 | 16:08 | 150 | U | 150 | 1000 | ***500*** |
| 91-57-6 | 2-Methylnaphthalene | 04/10/2025 | 16:08 | 25 | U | 25 | 200 | ***100*** |
| 95-48-7 | 2-Methylphenol | 04/10/2025 | 16:08 | 200 | U | 200 | 1000 | ***500*** |
| 88-74-4 | 2-Nitroaniline | 04/10/2025 | 16:08 | 80 | U | 80 | 400 | ***200*** |
| 88-75-5 | 2-Nitrophenol | 04/10/2025 | 16:08 | 150 | U | 150 | 1000 | ***500*** |
| 1319-77-3 | 3 & 4-Methylphenol | 04/10/2025 | 16:08 | 300 | U | 300 | 2000 | ***1000*** |
| 91-94-1 | 3,3'-Dichlorobenzidine | 04/10/2025 | 16:08 | 80 | U | 80 | 400 | ***200*** |
| 99-09-2 | 3-Nitroaniline | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 04/10/2025 | 16:08 | 200 | U | 200 | 1000 | ***500*** |

CT LABORATORIES
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**1B-2**

***SEMIVOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | 10.00 (g/L) | CTL Sample ID: | 1569380 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . 04/08/2025 17:45 (Sulfur) . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | 2S040925 | Concentration Units: | ug/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenyl ether | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 59-50-7 | 4-Chloro-3-methylphenol | 04/10/2025 | 16:08 | 200 | U | 200 | 1000 | ***500*** |
| 106-47-8 | 4-Chloroaniline | 04/10/2025 | 16:08 | 50 | U | 50 | 400 | ***200*** |
| 7005-72-3 | 4-Chlorophenyl-phenyl ether | 04/10/2025 | 16:08 | 25 | U | 25 | 200 | ***100*** |
| 100-01-6 | 4-Nitroaniline | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 100-02-7 | 4-Nitrophenol | 04/10/2025 | 16:08 | 300 | U | 300 | 1000 | ***500*** |
| 83-32-9 | Acenaphthene | 04/10/2025 | 16:08 | 70 | U | 70 | 400 | ***200*** |
| 208-96-8 | Acenaphthylene | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 62-53-3 | Aniline | 04/10/2025 | 16:08 | 100 | U | 100 | 400 | ***200*** |
| 120-12-7 | Anthracene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 103-33-3/122-66-7 | Azobenzene & 1,2-Diphenylhydra | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 92-87-5 | Benzidine | 04/10/2025 | 16:08 | 950 | UZ | 950 | 4000 | ***2000*** |
| 56-55-3 | Benzo(a)anthracene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 50-32-8 | Benzo(a)pyrene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 205-99-2 | Benzo(b)fluoranthene | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 191-24-2 | Benzo(g,h,i)perylene | 04/10/2025 | 16:08 | 40 | UZ | 40 | 200 | ***100*** |
| 207-08-9 | Benzo(k)fluoranthene | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 65-85-0 | Benzoic acid | 04/10/2025 | 16:08 | 400 | U | 400 | 1800 | ***900*** |
| 100-51-6 | Benzyl alcohol | 04/10/2025 | 16:08 | 50 | U | 50 | 400 | ***200*** |
| 111-91-1 | Bis(2-chloroethoxy)methane | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 111-44-4 | Bis(2-chloroethyl)ether | 04/10/2025 | 16:08 | 25 | U | 25 | 200 | ***100*** |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 85-68-7 | Butylbenzylphthalate | 04/10/2025 | 16:08 | 80 | U | 80 | 400 | ***200*** |

CT LABORATORIES
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**1B-2**

***SEMIVOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | 10.00 (g/L) | CTL Sample ID: | 1569380 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . 04/08/2025 17:45 (Sulfur) . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | 2S040925 | Concentration Units: | ug/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 86-74-8 | Carbazole | 04/10/2025 | 16:08 | 60 | U | 60 | 400 | ***200*** |
| 218-01-9 | Chrysene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 53-70-3 | Dibenzo(a,h)anthracene | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 132-64-9 | Dibenzofuran | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 84-66-2 | Diethylphthalate | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 131-11-3 | Dimethylphthalate | 04/10/2025 | 16:08 | 25 | U | 25 | 200 | ***100*** |
| 84-74-2 | Di-n-butylphthalate | 04/10/2025 | 16:08 | 50 | U | 50 | 400 | ***200*** |
| 117-84-0 | Di-n-octylphthalate | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 206-44-0 | Fluoranthene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 86-73-7 | Fluorene | 04/10/2025 | 16:08 | 25 | U | 25 | 200 | ***100*** |
| 118-74-1 | Hexachlorobenzene | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 87-68-3 | Hexachlorobutadiene | 04/10/2025 | 16:08 | 25 | U | 25 | 200 | ***100*** |
| 77-47-4 | Hexachlorocyclopentadiene | 04/10/2025 | 16:08 | 50 | UZ,Q | 50 | 200 | ***100*** |
| 67-72-1 | Hexachloroethane | 04/10/2025 | 16:08 | 25 | U | 25 | 200 | ***100*** |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 78-59-1 | Isophorone | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 91-20-3 | Naphthalene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 98-95-3 | Nitrobenzene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 62-75-9 | N-Nitrosodimethylamine | 04/10/2025 | 16:08 | 80 | U | 80 | 400 | ***200*** |
| 621-64-7 | N-Nitroso-di-n-propylamine | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 86-30-6/122-39-4 | N-Nitrosodiphenylamine & Diphn | 04/10/2025 | 16:08 | 100 | U | 100 | 400 | ***200*** |
| 930-55-2 | N-Nitrosopyrrolidine | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 87-86-5 | Pentachlorophenol | 04/10/2025 | 16:08 | 200 | U | 200 | 1000 | ***500*** |

CT LABORATORIES
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**1B-2**

***SEMIVOLATILE ORGANICS ANALYSIS (MB or CCB)***

Sample Description: **METHOD BLANK**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix: | | SDG No.: | 194024 |
| Sample wt/vol: | 10.00 (g/L) | CTL Sample ID: | 1569380 |
| % Solids: | | Date Received: | 04/04/2025 |
| Conc. Extract Vol: | 1.0 (mL) | Date/Time Prepared: | 04/08/2025 / 07:00 |
| Analytical Method: | EPA 8270D | Analytical Prep Batch #: | 138278 |
| Analytical Run #: | 290730 | Dilution Factor: | 1 |
| Cleanup Date/Time/Type: | . 04/08/2025 17:45 (Sulfur) . , | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | / |
| ICAL Calibration #: | 2S040925 | Concentration Units: | ug/kg |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 85-01-8 | Phenanthrene | 04/10/2025 | 16:08 | 40 | U | 40 | 200 | ***100*** |
| 108-95-2 | Phenol | 04/10/2025 | 16:08 | 200 | U | 200 | 1000 | ***500*** |
| 129-00-0 | Pyrene | 04/10/2025 | 16:08 | 50 | U | 50 | 200 | ***100*** |
| 110-86-1 | Pyridine | 04/10/2025 | 16:08 | 70 | U | 70 | 400 | ***200*** |

CT LABORATORIES
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**2C**

***WATER SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Analytical Method: | EPA 8270D | SDG: | 194024 |
| Analytical Run #: | 290647 | ICAL Calibration #: | 2S040725 |

| CTLab # | 1568824 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 79.7 | 43 | 140 | |
| Surr: 2-Fluorobiphenyl | 100 | 66.0 | 44 | 119 | |
| Surr: 2-Fluorophenol | 100 | 39.1 | 19 | 119 | |
| Surr: Nitrobenzene-d5 | 100 | 66.4 | 44 | 120 | |
| Surr: Phenol-d5 | 100 | 25.8 | 1 | 114 | |
| Surr: Terphenyl-d14 | 100 | 77.9 | 50 | 134 | |

| CTLab # | 1569376 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 89.7 | 43 | 140 | |
| Surr: 2-Fluorobiphenyl | 100 | 74.7 | 44 | 119 | |
| Surr: 2-Fluorophenol | 100 | 45.7 | 19 | 119 | |
| Surr: Nitrobenzene-d5 | 100 | 77.2 | 44 | 120 | |
| Surr: Phenol-d5 | 100 | 32.2 | 1 | 114 | |
| Surr: Terphenyl-d14 | 100 | 70.0 | 50 | 134 | |

| CTLab # | 1569377 | Sample Type: | Method Blank | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 71.3 | 43 | 140 | |
| Surr: 2-Fluorobiphenyl | 100 | 67.0 | 44 | 119 | |
| Surr: 2-Fluorophenol | 100 | 42.1 | 19 | 119 | |
| Surr: Nitrobenzene-d5 | 100 | 67.4 | 44 | 120 | |
| Surr: Phenol-d5 | 100 | 28.0 | 1 | 114 | |
| Surr: Terphenyl-d14 | 100 | 79.3 | 50 | 134 | |

| CTLab # | 1569378 | Sample Type: | Lab Control Spike | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 83.2 | 43 | 140 | |
| Surr: 2-Fluorobiphenyl | 100 | 70.5 | 44 | 119 | |
| Surr: 2-Fluorophenol | 100 | 46.5 | 19 | 119 | |
| Surr: Nitrobenzene-d5 | 100 | 70.2 | 44 | 120 | |
| Surr: Phenol-d5 | 100 | 31.4 | 1 | 114 | |
| Surr: Terphenyl-d14 | 100 | 82.8 | 50 | 134 | |

| CTLab # | 1569379 | Sample Type: | Lab Control Spike Duplicate | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 88.6 | 43 | 140 | |
| Surr: 2-Fluorobiphenyl | 100 | 72.4 | 44 | 119 | |
| Surr: 2-Fluorophenol | 100 | 46.6 | 19 | 119 | |
| Surr: Nitrobenzene-d5 | 100 | 73.8 | 44 | 120 | |
| Surr: Phenol-d5 | 100 | 32.3 | 1 | 114 | |
| Surr: Terphenyl-d14 | 100 | 85.2 | 50 | 134 | |

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**2D**

***SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Analytical Method: | EPA 8270D | SDG: | 194024 |
| Analytical Run #: | 290730 | ICAL Calibration #: | 2S040925 |

| CTLab # | 1568820 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 66.0 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 63.6 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 51.0 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 54.5 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 56.9 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 79.2 | 54 | 127 | |

| CTLab # | 1568821 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 83.4 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 83.6 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 74.6 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 76.8 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 82.3 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 95.0 | 54 | 127 | |

| CTLab # | 1568822 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 42.2 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 39.0 | 44 | 115 | FAIL (S) |
| Surr: 2-Fluorophenol | 100 | 34.4 | 35 | 115 | FAIL (S) |
| Surr: Nitrobenzene-d5 | 100 | 34.8 | 37 | 122 | FAIL (S) |
| Surr: Phenol-d5 | 100 | 38.3 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 52.0 | 54 | 127 | FAIL (S) |

| CTLab # | 1568823 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 57.7 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 69.6 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 63.0 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 67.9 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 67.9 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 73.2 | 54 | 127 | |

| CTLab # | 1568828 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 79.1 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 73.3 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 62.4 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 63.6 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 71.0 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 89.5 | 54 | 127 | |

CT LABORATORIES
delivering more than data from your environmental analyses

**2D**

***SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Analytical Method: EPA 8270D | SDG: 194024

Analytical Run #: 290730 | ICAL Calibration #: 2S040925

| CTLab # | 1568830 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 79.3 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 92.2 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 77.8 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 87.4 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 87.8 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 104 | 54 | 127 | |
| **CTLab #** | **1568832** | | | | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 78.7 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 73.1 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 58.7 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 58.5 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 69.2 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 91.1 | 54 | 127 | |
| **CTLab #** | **1568834** | | | | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 45.9 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 41.0 | 44 | 115 | FAIL (S) |
| Surr: 2-Fluorophenol | 100 | 33.7 | 35 | 115 | FAIL (S) |
| Surr: Nitrobenzene-d5 | 100 | 34.7 | 37 | 122 | FAIL (S) |
| Surr: Phenol-d5 | 100 | 38.7 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 55.9 | 54 | 127 | |
| **CTLab #** | **1568836** | | | | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 52.3 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 51.4 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 44.9 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 44.6 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 50.5 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 66.6 | 54 | 127 | |
| **CTLab #** | **1568838** | | | | |
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 92.6 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 84.4 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 71.3 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 71.6 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 81.1 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 104 | 54 | 127 | |

CT LABORATORIES
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**2D**

***SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Analytical Method: EPA 8270D | SDG: 194024

Analytical Run #: 290730 | ICAL Calibration #: 2S040925

| CTLab # | 1568839 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 88.2 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 83.4 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 79.6 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 80.0 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 84.8 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 91.9 | 54 | 127 | |

| CTLab # | 1568841 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 107 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 97.2 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 89.9 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 86.7 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 95.2 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 125 | 54 | 127 | |

| CTLab # | 1568842 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 81.4 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 74.7 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 61.4 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 64.7 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 69.3 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 92.0 | 54 | 127 | |

| CTLab # | 1568843 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 99.2 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 81.4 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 68.0 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 68.7 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 77.2 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 105 | 54 | 127 | |

| CTLab # | 1568844 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 93.2 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 83.9 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 75.4 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 77.5 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 82.7 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 102 | 54 | 127 | |

CT LABORATORIES
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**2D**

***SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Analytical Method: | EPA 8270D | SDG: | 194024 |
| Analytical Run #: | 290730 | ICAL Calibration #: | 2S040925 |

| CTLab # | 1568845 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 82.5 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 72.9 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 66.7 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 65.8 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 73.9 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 89.3 | 54 | 127 | |

| CTLab # | 1568846 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 84.8 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 77.3 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 66.6 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 71.2 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 73.4 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 97.4 | 54 | 127 | |

| CTLab # | 1569380 | Sample Type: | Method Blank | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 71.2 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 73.0 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 69.4 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 70.0 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 73.5 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 90.6 | 54 | 127 | |

| CTLab # | 1569381 | Sample Type: | Lab Control Spike | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 93.4 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 80.8 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 79.6 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 77.8 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 82.8 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 95.4 | 54 | 127 | |

| CTLab # | 1569383 | Sample Type: | Matrix Spike | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 82.0 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 77.6 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 68.7 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 70.5 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 75.6 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 90.0 | 54 | 127 | |

CT LABORATORIES
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**2D**

***SOIL SEMI VOLATILE SYSTEM MONITORING COMPOUND RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Analytical Method: | EPA 8270D | SDG: | 194024 |
| Analytical Run #: | 290730 | ICAL Calibration #: | 2S040925 |

| CTLab # | 1569384 | Sample Type: | Matrix Spike Duplicate | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4,6-Tribromophenol | 100 | 95.5 | 39 | 132 | |
| Surr: 2-Fluorobiphenyl | 100 | 85.9 | 44 | 115 | |
| Surr: 2-Fluorophenol | 100 | 80.8 | 35 | 115 | |
| Surr: Nitrobenzene-d5 | 100 | 83.4 | 37 | 122 | |
| Surr: Phenol-d5 | 100 | 85.1 | 33 | 122 | |
| Surr: Terphenyl-d14 | 100 | 103 | 54 | 127 | |

CT LABORATORIES
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**3C**

Sample Description

**LCS**

***WATER SEMIVOLATILE LAB CONTROL SAMPLE***

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1569378
SDG No.: 194024
Analytical Method: EPA 8270D
Concentration Units: ug/L

Sample No.: 1569378
Parent Sample No.: 0
Analytical Prep Batch #: 138277
Analytical Preparation Date/Time: 04/07/2025 11:10
Analytical Run #: 290647
ICAL Calibration #: 2S040725

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| 1,1'-Biphenyl | 04/08/2025 | 13:58 | 49-115 | 12.4 | | 20.0 | 62 |
| 1,2,4,5-Tetrachlorobenzene | 04/08/2025 | 13:58 | 35-121 | 13.1 | | 20.0 | 66 |
| 1,2,4-Trichlorobenzene | 04/08/2025 | 13:58 | 29-116 | 12.4 | | 20.0 | 62 |
| 1,2-Dichlorobenzene | 04/08/2025 | 13:58 | 32-111 | 12.7 | | 20.0 | 64 |
| 1,3-Dichlorobenzene | 04/08/2025 | 13:58 | 28-110 | 12.5 | | 20.0 | 62 |
| 1,4-Dichlorobenzene | 04/08/2025 | 13:58 | 29-112 | 12.5 | | 20.0 | 62 |
| 1-Methylnaphthalene | 04/08/2025 | 13:58 | 41-119 | 13.6 | | 20.0 | 68 |
| 2,3,4,6-Tetrachlorophenol | 04/08/2025 | 13:58 | 50-128 | 16.3 | | 20.0 | 82 |
| 2,4,5-Trichlorophenol | 04/08/2025 | 13:58 | 53-123 | 15.2 | | 20.0 | 76 |
| 2,4,6-Trichlorophenol | 04/08/2025 | 13:58 | 50-125 | 14.5 | | 20.0 | 72 |
| 2,4-Dichlorophenol | 04/08/2025 | 13:58 | 47-121 | 14.1 | | 20.0 | 70 |
| 2,4-Dimethylphenol | 04/08/2025 | 13:58 | 31-124 | 12.6 | | 20.0 | 63 |
| 2,4-Dinitrophenol | 04/08/2025 | 13:58 | 23-143 | 15.0 | | 20.0 | 75 |
| 2,4-Dinitrotoluene | 04/08/2025 | 13:58 | 57-128 | 17.0 | | 20.0 | 85 |
| 2,6-Dichlorophenol | 04/08/2025 | 13:58 | 50-118 | 12.4 | | 20.0 | 62 |
| 2,6-Dinitrotoluene | 04/08/2025 | 13:58 | 57-124 | 16.3 | | 20.0 | 82 |
| 2-Chloronaphthalene | 04/08/2025 | 13:58 | 40-116 | 13.7 | | 20.0 | 68 |
| 2-Chlorophenol | 04/08/2025 | 13:58 | 38-117 | 13.2 | | 20.0 | 66 |
| 2-Methylnaphthalene | 04/08/2025 | 13:58 | 40-121 | 13.5 | | 20.0 | 68 |
| 2-Methylphenol | 04/08/2025 | 13:58 | 30-117 | 11.9 | | 20.0 | 60 |
| 2-Nitroaniline | 04/08/2025 | 13:58 | 55-127 | 15.9 | | 20.0 | 80 |
| 2-Nitrophenol | 04/08/2025 | 13:58 | 47-123 | 13.8 | | 20.0 | 69 |
| 3 & 4-Methylphenol | 04/08/2025 | 13:58 | 28-110 | 11.3 | | 20.0 | 56 |
| 3,3'-Dichlorobenzidine | 04/08/2025 | 13:58 | 27-129 | 23.4 | | 20.0 | 117 |
| 3-Nitroaniline | 04/08/2025 | 13:58 | 41-128 | 15.6 | | 20.0 | 78 |
| 4,6-Dinitro-2-methylphenol | 04/08/2025 | 13:58 | 44-137 | 16.0 | | 20.0 | 80 |
| 4-Bromophenyl-phenyl ether | 04/08/2025 | 13:58 | 55-124 | 15.9 | | 20.0 | 80 |
| 4-Chloro-3-methylphenol | 04/08/2025 | 13:58 | 52-119 | 14.9 | | 20.0 | 74 |

CT LABORATORIES
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**3C**

Sample Description

**LCS**

***WATER SEMIVOLATILE LAB CONTROL SAMPLE***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample No.: | 1569378 | SDG No.: | 194024 |
| Analytical Method: | EPA 8270D | Concentration Units: | ug/L |

| | | | |
|---|---|---|---|
| Sample No.: | 1569378 | Parent Sample No.: | 0 |
| Analytical Prep Batch #: | 138277 | Analytical Preparation Date/Time: | 04/07/2025 11:10 |
| Analytical Run #: | 290647 | ICAL Calibration #: | 2S040725 |

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| 4-Chloroaniline | 04/08/2025 | 13:58 | 33-117 | 10.7 | | 20.0 | 54 |
| 4-Chlorophenyl-phenyl ether | 04/08/2025 | 13:58 | 53-121 | 15.8 | | 20.0 | 79 |
| 4-Nitroaniline | 04/08/2025 | 13:58 | 51-130 | 16.8 | | 20.0 | 84 |
| 4-Nitrophenol | 04/08/2025 | 13:58 | 0-113 | 8.71 | | 20.0 | 44 |
| Acenaphthene | 04/08/2025 | 13:58 | 47-122 | 14.6 | | 20.0 | 73 |
| Acenaphthylene | 04/08/2025 | 13:58 | 41-130 | 14.2 | | 20.0 | 71 |
| Acetophenone | 04/08/2025 | 13:58 | 46-118 | 14.6 | | 20.0 | 73 |
| Aniline | 04/08/2025 | 13:58 | 18-101 | 9.92 | | 20.0 | 50 |
| Anthracene | 04/08/2025 | 13:58 | 57-123 | 16.7 | | 20.0 | 84 |
| Atrazine | 04/08/2025 | 13:58 | 44-142 | 14.6 | | 20.0 | 73 |
| Azobenzene & 1,2-Diphenylhydra | 04/08/2025 | 13:58 | 61-116 | 31.5 | | 40.0 | 79 |
| Benzaldehyde | 04/08/2025 | 13:58 | 15-118 | 13.4 | | 20.0 | 67 |
| Benzidine | 04/08/2025 | 13:58 | 0-165 | 0.375 | | 20.0 | 2 |
| Benzo(a)anthracene | 04/08/2025 | 13:58 | 58-125 | 16.2 | | 20.0 | 81 |
| Benzo(a)pyrene | 04/08/2025 | 13:58 | 54-128 | 16.2 | | 20.0 | 81 |
| Benzo(b)fluoranthene | 04/08/2025 | 13:58 | 53-131 | 16.7 | | 20.0 | 84 |
| Benzo(g,h,i)perylene | 04/08/2025 | 13:58 | 50-134 | 16.7 | | 20.0 | 84 |
| Benzo(k)fluoranthene | 04/08/2025 | 13:58 | 57-129 | 16.4 | | 20.0 | 82 |
| Benzoic acid | 04/08/2025 | 13:58 | 0-125 | 8.27 | | 20.0 | 41 |
| Benzyl alcohol | 04/08/2025 | 13:58 | 31-112 | 12.4 | | 20.0 | 62 |
| Bis(2-chloroethoxy)methane | 04/08/2025 | 13:58 | 48-120 | 14.2 | | 20.0 | 71 |
| Bis(2-chloroethyl)ether | 04/08/2025 | 13:58 | 43-118 | 14.2 | | 20.0 | 71 |
| Bis(2-chloroisopropyl)ether | 04/08/2025 | 13:58 | 37-130 | 13.7 | | 20.0 | 68 |
| Bis(2-ethylhexyl)phthalate | 04/08/2025 | 13:58 | 55-135 | 16.7 | | 20.0 | 84 |
| Butylbenzylphthalate | 04/08/2025 | 13:58 | 53-134 | 16.6 | | 20.0 | 83 |
| Caprolactam | 04/08/2025 | 13:58 | 10-120 | 5.06 | | 20.0 | 25 |
| Carbazole | 04/08/2025 | 13:58 | 60-122 | 17.7 | | 20.0 | 88 |
| Chrysene | 04/08/2025 | 13:58 | 59-123 | 16.1 | | 20.0 | 80 |

CT LABORATORIES
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**3C**

Sample Description

**LCS**

***WATER SEMIVOLATILE LAB CONTROL SAMPLE***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample No.: | 1569378 | SDG No.: | 194024 |
| Analytical Method: | EPA 8270D | Concentration Units: | ug/L |

| | | | |
|---|---|---|---|
| Sample No.: | 1569378 | Parent Sample No.: | 0 |
| Analytical Prep Batch #: | 138277 | Analytical Preparation Date/Time: | 04/07/2025 11:10 |
| Analytical Run #: | 290647 | ICAL Calibration #: | 2S040725 |

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| Dibenzo(a,h)anthracene | 04/08/2025 | 13:58 | 51-134 | 16.7 | | 20.0 | 84 |
| Dibenzofuran | 04/08/2025 | 13:58 | 53-118 | 15.3 | | 20.0 | 76 |
| Diethylphthalate | 04/08/2025 | 13:58 | 56-125 | 16.4 | | 20.0 | 82 |
| Dimethylphthalate | 04/08/2025 | 13:58 | 45-127 | 16.3 | | 20.0 | 82 |
| Di-n-butylphthalate | 04/08/2025 | 13:58 | 59-127 | 17.6 | | 20.0 | 88 |
| Di-n-octylphthalate | 04/08/2025 | 13:58 | 51-140 | 16.7 | | 20.0 | 84 |
| Fluoranthene | 04/08/2025 | 13:58 | 57-128 | 17.0 | | 20.0 | 85 |
| Fluorene | 04/08/2025 | 13:58 | 52-124 | 15.7 | | 20.0 | 78 |
| Hexachlorobenzene | 04/08/2025 | 13:58 | 53-125 | 15.8 | | 20.0 | 79 |
| Hexachlorobutadiene | 04/08/2025 | 13:58 | 22-124 | 11.5 | | 20.0 | 58 |
| Hexachlorocyclopentadiene | 04/08/2025 | 13:58 | 31-93 | 7.07 | | 20.0 | 35 |
| Hexachloroethane | 04/08/2025 | 13:58 | 21-115 | 12.0 | | 20.0 | 60 |
| Indeno(1,2,3-cd)pyrene | 04/08/2025 | 13:58 | 52-134 | 16.7 | | 20.0 | 84 |
| Isophorone | 04/08/2025 | 13:58 | 42-124 | 14.2 | | 20.0 | 71 |
| Naphthalene | 04/08/2025 | 13:58 | 40-121 | 13.2 | | 20.0 | 66 |
| Nitrobenzene | 04/08/2025 | 13:58 | 45-121 | 13.9 | | 20.0 | 70 |
| N-Nitrosodimethylamine | 04/08/2025 | 13:58 | 9-104 | 9.43 | | 20.0 | 47 |
| N-Nitroso-di-n-propylamine | 04/08/2025 | 13:58 | 49-119 | 14.2 | | 20.0 | 71 |
| N-Nitrosodiphenylamine & Diphn | 04/08/2025 | 13:58 | 51-123 | 29.4 | | 40.0 | 74 |
| N-Nitrosopyrrolidine | 04/08/2025 | 13:58 | 48-113 | 14.2 | | 20.0 | 71 |
| Pentachlorophenol | 04/08/2025 | 13:58 | 35-138 | 15.7 | | 20.0 | 78 |
| Phenanthrene | 04/08/2025 | 13:58 | 59-120 | 16.4 | | 20.0 | 82 |
| Phenol | 04/08/2025 | 13:58 | 0-108 | 6.41 | | 20.0 | 32 |
| Pyrene | 04/08/2025 | 13:58 | 57-126 | 16.5 | | 20.0 | 82 |
| Pyridine | 04/08/2025 | 13:58 | 0-106 | 1.63 | | 20.0 | 8 |

CT LABORATORIES
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**3C**

***WATER SEMIVOLATILE LAB CONTROL SAMPLE***

Sample Description: **LCS**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample No.: | 1569378 | SDG No.: | 194024 |
| Analytical Method: | EPA 8270D | Concentration Units: | ug/L |

Spike Recovery: 0 out of 81 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3C

***WATER SEMIVOLATILE LAB CONTROL SAMPLE***

Sample Description: **LCSD**

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1569379
SDG No.: 194024
Analytical Method: EPA 8270D
Concentration Units: ug/L

Analytical Run #: 290647
Sample No.: 1569379
Parent Sample No.: 1569378
Analytical Prep Batch #: 138277
Analytical Preparation Date/Time: 04/07/2025 11:10
ICAL Calibration #: 2S040725

| Analyte | Analysis Date/Time | Spike Result | Parent Result | Spike Amount | %R | %RPD | Control Limit (%R) | Control Limit (%RPD) |
|---|---|---|---|---|---|---|---|---|
| 1,1'-Biphenyl | 04/08/2025 14:21 | 13.2 | 12.4 | 20.0 | 66 | 6 | 49-115 | 20 |
| 1,2,4,5-Tetrachlorobenzene | 04/08/2025 14:21 | 13.7 | 13.1 | 20.0 | 68 | 4 | 35-121 | 20 |
| 1,2,4-Trichlorobenzene | 04/08/2025 14:21 | 13.1 | 12.4 | 20.0 | 66 | 5 | 29-116 | 20 |
| 1,2-Dichlorobenzene | 04/08/2025 14:21 | 13.7 | 12.7 | 20.0 | 68 | 8 | 32-111 | 20 |
| 1,3-Dichlorobenzene | 04/08/2025 14:21 | 13.2 | 12.5 | 20.0 | 66 | 5 | 28-110 | 20 |
| 1,4-Dichlorobenzene | 04/08/2025 14:21 | 13.4 | 12.5 | 20.0 | 67 | 7 | 29-112 | 20 |
| 1-Methylnaphthalene | 04/08/2025 14:21 | 14.7 | 13.6 | 20.0 | 74 | 8 | 41-119 | 20 |
| 2,3,4,6-Tetrachlorophenol | 04/08/2025 14:21 | 17.1 | 16.3 | 20.0 | 86 | 5 | 50-128 | 20 |
| 2,4,5-Trichlorophenol | 04/08/2025 14:21 | 16.4 | 15.2 | 20.0 | 82 | 8 | 53-123 | 20 |
| 2,4,6-Trichlorophenol | 04/08/2025 14:21 | 15.8 | 14.5 | 20.0 | 79 | 9 | 50-125 | 20 |
| 2,4-Dichlorophenol | 04/08/2025 14:21 | 15.1 | 14.1 | 20.0 | 76 | 7 | 47-121 | 20 |
| 2,4-Dimethylphenol | 04/08/2025 14:21 | 13.2 | 12.6 | 20.0 | 66 | 5 | 31-124 | 20 |
| 2,4-Dinitrophenol | 04/08/2025 14:21 | 16.2 | 15.0 | 20.0 | 81 | 8 | 23-143 | 20 |
| 2,4-Dinitrotoluene | 04/08/2025 14:21 | 17.9 | 17.0 | 20.0 | 90 | 5 | 57-128 | 20 |
| 2,6-Dichlorophenol | 04/08/2025 14:21 | 13.1 | 12.4 | 20.0 | 66 | 5 | 50-118 | 20 |
| 2,6-Dinitrotoluene | 04/08/2025 14:21 | 17.1 | 16.3 | 20.0 | 86 | 5 | 57-124 | 20 |
| 2-Chloronaphthalene | 04/08/2025 14:21 | 14.5 | 13.7 | 20.0 | 72 | 6 | 40-116 | 20 |
| 2-Chlorophenol | 04/08/2025 14:21 | 13.9 | 13.2 | 20.0 | 70 | 5 | 38-117 | 20 |
| 2-Methylnaphthalene | 04/08/2025 14:21 | 14.5 | 13.5 | 20.0 | 72 | 7 | 40-121 | 20 |
| 2-Methylphenol | 04/08/2025 14:21 | 12.7 | 11.9 | 20.0 | 64 | 7 | 30-117 | 20 |
| 2-Nitroaniline | 04/08/2025 14:21 | 16.8 | 15.9 | 20.0 | 84 | 6 | 55-127 | 20 |
| 2-Nitrophenol | 04/08/2025 14:21 | 14.9 | 13.8 | 20.0 | 74 | 8 | 47-123 | 20 |
| 3 & 4-Methylphenol | 04/08/2025 14:21 | 12.1 | 11.3 | 20.0 | 60 | 7 | 28-110 | 20 |
| 3,3'-Dichlorobenzidine | 04/08/2025 14:21 | 25.3 | 23.4 | 20.0 | 126 | 8 | 27-129 | 20 |
| 3-Nitroaniline | 04/08/2025 14:21 | 15.7 | 15.6 | 20.0 | 78 | 1 | 41-128 | 20 |
| 4,6-Dinitro-2-methylphenol | 04/08/2025 14:21 | 16.9 | 16.0 | 20.0 | 84 | 5 | 44-137 | 20 |
| 4-Bromophenyl-phenyl ether | 04/08/2025 14:21 | 16.5 | 15.9 | 20.0 | 82 | 4 | 55-124 | 20 |
| 4-Chloro-3-methylphenol | 04/08/2025 14:21 | 15.8 | 14.9 | 20.0 | 79 | 6 | 52-119 | 20 |

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***WATER SEMIVOLATILE LAB CONTROL SAMPLE***

Sample Description: **LCSD**

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Sample No.: 1569379 | SDG No.: 194024

Analytical Method: EPA 8270D | Concentration Units: ug/L

Analytical Run #: 290647 | Sample No.: 1569379 | Parent Sample No.: 1569378

Analytical Prep Batch #: 138277 | Analytical Preparation Date/Time: 04/07/2025 11:10

ICAL Calibration #: 2S040725

| Analyte | Analysis Date/Time | Spike Result | Parent Result | Spike Amount | %R | %RPD | Control Limit (%R) | Control Limit (%RPD) | |
|---|---|---|---|---|---|---|---|---|---|
| 4-Chloroaniline | 04/08/2025 14:21 | 10.6 | 10.7 | 20.0 | 53 | 1 | 33-117 | 20 | |
| 4-Chlorophenyl-phenyl ether | 04/08/2025 14:21 | 16.8 | 15.8 | 20.0 | 84 | 6 | 53-121 | 20 | |
| 4-Nitroaniline | 04/08/2025 14:21 | 18.6 | 16.8 | 20.0 | 93 | 10 | 51-130 | 20 | |
| 4-Nitrophenol | 04/08/2025 14:21 | 9.51 | 8.71 | 20.0 | 48 | 9 | 0-113 | 20 | |
| Acenaphthene | 04/08/2025 14:21 | 15.4 | 14.6 | 20.0 | 77 | 5 | 47-122 | 20 | |
| Acenaphthylene | 04/08/2025 14:21 | 14.9 | 14.2 | 20.0 | 74 | 5 | 41-130 | 20 | |
| Acetophenone | 04/08/2025 14:21 | 15.4 | 14.6 | 20.0 | 77 | 5 | 46-118 | 20 | |
| Aniline | 04/08/2025 14:21 | 10.7 | 9.92 | 20.0 | 54 | 8 | 18-101 | 20 | |
| Anthracene | 04/08/2025 14:21 | 17.5 | 16.7 | 20.0 | 88 | 5 | 57-123 | 20 | |
| Atrazine | 04/08/2025 14:21 | 15.5 | 14.6 | 20.0 | 78 | 6 | 44-142 | 20 | |
| Azobenzene & 1,2-Diphenylhydra | 04/08/2025 14:21 | 33.3 | 31.5 | 40.0 | 83 | 6 | 61-116 | 20 | |
| Benzaldehyde | 04/08/2025 14:21 | 14.1 | 13.4 | 20.0 | 70 | 5 | 15-118 | 20 | |
| Benzidine | 04/08/2025 14:21 | 3.98 | 0.375 | 20.0 | 20 | 166 | 0-165 | 20 | *FAIL* |
| Benzo(a)anthracene | 04/08/2025 14:21 | 17.3 | 16.2 | 20.0 | 86 | 7 | 58-125 | 20 | |
| Benzo(a)pyrene | 04/08/2025 14:21 | 17.2 | 16.2 | 20.0 | 86 | 6 | 54-128 | 20 | |
| Benzo(b)fluoranthene | 04/08/2025 14:21 | 17.6 | 16.7 | 20.0 | 88 | 5 | 53-131 | 20 | |
| Benzo(g,h,i)perylene | 04/08/2025 14:21 | 17.9 | 16.7 | 20.0 | 90 | 7 | 50-134 | 20 | |
| Benzo(k)fluoranthene | 04/08/2025 14:21 | 17.7 | 16.4 | 20.0 | 88 | 8 | 57-129 | 20 | |
| Benzoic acid | 04/08/2025 14:21 | 6.52 | 8.27 | 20.0 | 33 | 24 | 0-125 | 20 | *FAIL* |
| Benzyl alcohol | 04/08/2025 14:21 | 13.1 | 12.4 | 20.0 | 66 | 5 | 31-112 | 20 | |
| Bis(2-chloroethoxy)methane | 04/08/2025 14:21 | 15.0 | 14.2 | 20.0 | 75 | 5 | 48-120 | 20 | |
| Bis(2-chloroethyl)ether | 04/08/2025 14:21 | 15.2 | 14.2 | 20.0 | 76 | 7 | 43-118 | 20 | |
| Bis(2-chloroisopropyl)ether | 04/08/2025 14:21 | 14.6 | 13.7 | 20.0 | 73 | 6 | 37-130 | 20 | |
| Bis(2-ethylhexyl)phthalate | 04/08/2025 14:21 | 18.0 | 16.7 | 20.0 | 90 | 7 | 55-135 | 20 | |
| Butylbenzylphthalate | 04/08/2025 14:21 | 17.9 | 16.6 | 20.0 | 90 | 8 | 53-134 | 20 | |
| Caprolactam | 04/08/2025 14:21 | 5.23 | 5.06 | 20.0 | 26 | 3 | 10-120 | 20 | |
| Carbazole | 04/08/2025 14:21 | 18.9 | 17.7 | 20.0 | 94 | 7 | 60-122 | 20 | |
| Chrysene | 04/08/2025 14:21 | 17.1 | 16.1 | 20.0 | 86 | 6 | 59-123 | 20 | |

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***WATER SEMIVOLATILE LAB CONTROL SAMPLE***

Sample Description: **LCSD**

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Sample No.: 1569379 | SDG No.: 194024

Analytical Method: EPA 8270D | Concentration Units: ug/L

Analytical Run #: 290647 | Sample No.: 1569379 | Parent Sample No.: 1569378

Analytical Prep Batch #: 138277 | Analytical Preparation Date/Time: 04/07/2025 11:10

ICAL Calibration #: 2S040725

| Analyte | Analysis Date/Time | Spike Result | Parent Result | Spike Amount | %R | %RPD | Control Limit (%R) | Control Limit (%RPD) | |
|---|---|---|---|---|---|---|---|---|---|
| Dibenzo(a,h)anthracene | 04/08/2025 14:21 | 18.0 | 16.7 | 20.0 | 90 | 7 | 51-134 | 20 | |
| Dibenzofuran | 04/08/2025 14:21 | 16.1 | 15.3 | 20.0 | 80 | 5 | 53-118 | 20 | |
| Diethylphthalate | 04/08/2025 14:21 | 17.6 | 16.4 | 20.0 | 88 | 7 | 56-125 | 20 | |
| Dimethylphthalate | 04/08/2025 14:21 | 17.0 | 16.3 | 20.0 | 85 | 4 | 45-127 | 20 | |
| Di-n-butylphthalate | 04/08/2025 14:21 | 19.1 | 17.6 | 20.0 | 96 | 8 | 59-127 | 20 | |
| Di-n-octylphthalate | 04/08/2025 14:21 | 18.0 | 16.7 | 20.0 | 90 | 7 | 51-140 | 20 | |
| Fluoranthene | 04/08/2025 14:21 | 18.0 | 17.0 | 20.0 | 90 | 6 | 57-128 | 20 | |
| Fluorene | 04/08/2025 14:21 | 16.7 | 15.7 | 20.0 | 84 | 6 | 52-124 | 20 | |
| Hexachlorobenzene | 04/08/2025 14:21 | 16.4 | 15.8 | 20.0 | 82 | 4 | 53-125 | 20 | |
| Hexachlorobutadiene | 04/08/2025 14:21 | 12.2 | 11.5 | 20.0 | 61 | 6 | 22-124 | 20 | |
| Hexachlorocyclopentadiene | 04/08/2025 14:21 | 7.73 | 7.07 | 20.0 | 39 | 9 | 31-93 | 20 | |
| Hexachloroethane | 04/08/2025 14:21 | 13.0 | 12.0 | 20.0 | 65 | 8 | 21-115 | 20 | |
| Indeno(1,2,3-cd)pyrene | 04/08/2025 14:21 | 17.9 | 16.7 | 20.0 | 90 | 7 | 52-134 | 20 | |
| Isophorone | 04/08/2025 14:21 | 15.2 | 14.2 | 20.0 | 76 | 7 | 42-124 | 20 | |
| Naphthalene | 04/08/2025 14:21 | 14.0 | 13.2 | 20.0 | 70 | 6 | 40-121 | 20 | |
| Nitrobenzene | 04/08/2025 14:21 | 15.0 | 13.9 | 20.0 | 75 | 8 | 45-121 | 20 | |
| N-Nitrosodimethylamine | 04/08/2025 14:21 | 9.87 | 9.43 | 20.0 | 49 | 5 | 9-104 | 20 | |
| N-Nitroso-di-n-propylamine | 04/08/2025 14:21 | 15.2 | 14.2 | 20.0 | 76 | 7 | 49-119 | 20 | |
| N-Nitrosodiphenylamine & Diphn | 04/08/2025 14:21 | 30.9 | 29.4 | 40.0 | 77 | 5 | 51-123 | 20 | |
| N-Nitrosopyrrolidine | 04/08/2025 14:21 | 14.4 | 14.2 | 20.0 | 72 | 1 | 48-113 | 20 | |
| Pentachlorophenol | 04/08/2025 14:21 | 17.2 | 15.7 | 20.0 | 86 | 9 | 35-138 | 20 | |
| Phenanthrene | 04/08/2025 14:21 | 17.3 | 16.4 | 20.0 | 86 | 5 | 59-120 | 20 | |
| Phenol | 04/08/2025 14:21 | 6.60 | 6.41 | 20.0 | 33 | 3 | 0-108 | 20 | |
| Pyrene | 04/08/2025 14:21 | 17.5 | 16.5 | 20.0 | 88 | 6 | 57-126 | 20 | |
| Pyridine | 04/08/2025 14:21 | 2.06 | 1.63 | 20.0 | 10 | 23 | 0-106 | 20 | *FAIL* |

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**3C**

***WATER SEMIVOLATILE LAB CONTROL SAMPLE***

Sample Description: **LCSD**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample No.: | 1569379 | SDG No.: | 194024 |
| Analytical Method: | EPA 8270D | Concentration Units: | ug/L |

RPD or Spike Recovery: 3 out of 81 outside QC limits

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**3D**

***SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY***

Sample Description

**SB-113-0-DFW**

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8270D | Concentration Units: ug/kg

Analytical Run #: 290730 | Sample No.: 1569383 | Parent Sample No.: 1568828

Analytical Prep Batch #: 138278 | Analytical Preparation Date/Time: 04/08/2025 07:00

ICAL Calibration #: 2S040925

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 04/10/2025 | 18:05 | 34-118 | 1480 | BDL | 2340 | 63 | |
| 1,2-Dichlorobenzene | 04/10/2025 | 18:05 | 33-117 | 1450 | BDL | 2340 | 62 | |
| 1,3-Dichlorobenzene | 04/10/2025 | 18:05 | 30-115 | 1430 | BDL | 2340 | 61 | |
| 1,4-Dichlorobenzene | 04/10/2025 | 18:05 | 31-115 | 1420 | BDL | 2340 | 61 | |
| 1-Methylnaphthalene | 04/10/2025 | 18:05 | 40-119 | 1710 | 110 | 2340 | 68 | |
| 2,4,5-Trichlorophenol | 04/10/2025 | 18:05 | 41-124 | 1760 | BDL | 2340 | 75 | |
| 2,4,6-Trichlorophenol | 04/10/2025 | 18:05 | 39-126 | 1760 | BDL | 2340 | 75 | |
| 2,4-Dichlorophenol | 04/10/2025 | 18:05 | 40-122 | 1700 | BDL | 2340 | 73 | |
| 2,4-Dimethylphenol | 04/10/2025 | 18:05 | 30-127 | 859 | BDL | 2340 | 37 | |
| 2,4-Dinitrophenol | 04/10/2025 | 18:05 | 16-102 | 1620 | BDL | 2340 | 69 | |
| 2,4-Dinitrotoluene | 04/10/2025 | 18:05 | 48-126 | 1810 | BDL | 2340 | 77 | |
| 2,6-Dichlorophenol | 04/10/2025 | 18:05 | 41-117 | 1360 | BDL | 2340 | 58 | |
| 2,6-Dinitrotoluene | 04/10/2025 | 18:05 | 46-124 | 1740 | BDL | 2340 | 74 | |
| 2-Chloronaphthalene | 04/10/2025 | 18:05 | 41-114 | 1640 | BDL | 2340 | 70 | |
| 2-Chlorophenol | 04/10/2025 | 18:05 | 34-121 | 1530 | BDL | 2340 | 65 | |
| 2-Methylnaphthalene | 04/10/2025 | 18:05 | 38-122 | 1710 | 144 | 2340 | 67 | |
| 2-Methylphenol | 04/10/2025 | 18:05 | 32-122 | 1480 | BDL | 2340 | 63 | |
| 2-Nitroaniline | 04/10/2025 | 18:05 | 44-127 | 1770 | BDL | 2340 | 76 | |
| 2-Nitrophenol | 04/10/2025 | 18:05 | 36-123 | 1540 | BDL | 2340 | 66 | |
| 3 & 4-Methylphenol | 04/10/2025 | 18:05 | 34-119 | 1600 | BDL | 2340 | 68 | |
| 3,3'-Dichlorobenzidine | 04/10/2025 | 18:05 | 22-121 | 106 | BDL | 2340 | 5 | *FAIL* |
| 3-Nitroaniline | 04/10/2025 | 18:05 | 33-119 | 911 | BDL | 2340 | 39 | |
| 4,6-Dinitro-2-methylphenol | 04/10/2025 | 18:05 | 29-132 | 1590 | BDL | 2340 | 68 | |
| 4-Bromophenyl-phenyl ether | 04/10/2025 | 18:05 | 46-124 | 1750 | BDL | 2340 | 75 | |
| 4-Chloro-3-methylphenol | 04/10/2025 | 18:05 | 45-122 | 1810 | BDL | 2340 | 77 | |
| 4-Chloroaniline | 04/10/2025 | 18:05 | 17-106 | 404 | BDL | 2340 | 17 | |
| 4-Chlorophenyl-phenyl ether | 04/10/2025 | 18:05 | 45-121 | 1770 | BDL | 2340 | 76 | |
| 4-Nitroaniline | 04/10/2025 | 18:05 | 44-125 | 1330 | BDL | 2340 | 57 | |
| 4-Nitrophenol | 04/10/2025 | 18:05 | 30-132 | 1900 | BDL | 2340 | 81 | |
| Acenaphthene | 04/10/2025 | 18:05 | 40-123 | 2220 | 1320 | 2340 | 38 | *FAIL* |
| Acenaphthylene | 04/10/2025 | 18:05 | 32-132 | 1690 | BDL | 2340 | 72 | |

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**3D**

***SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY***

Sample Description

**SB-113-0-DFW**

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8270D | Concentration Units: ug/kg

Analytical Run #: 290730 | Sample No.: 1569383 | Parent Sample No.: 1568828

Analytical Prep Batch #: 138278 | Analytical Preparation Date/Time: 04/08/2025 07:00

ICAL Calibration #: 2S040925

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|---|
| Aniline | 04/10/2025 | 18:05 | 18-87 | 223 | BDL | 2340 | 10 | *FAIL* |
| Anthracene | 04/10/2025 | 18:05 | 47-123 | 2560 | 2020 | 2340 | 23 | *FAIL* |
| Azobenzene & 1,2-Diphenylhydra | 04/10/2025 | 18:05 | 39-125 | 3870 | BDL | 4690 | 83 | |
| Benzidine | 04/10/2025 | 18:05 | 0-141 | 4.33 | BDL | 2340 | 0 | |
| Benzo(g,h,i)perylene | 04/10/2025 | 18:05 | 43-134 | 2170 | 3180 | 2340 | 0 | *FAIL* |
| Benzo(k)fluoranthene | 04/10/2025 | 18:05 | 47-132 | 3840 | 3280 | 2340 | 24 | *FAIL* |
| Benzoic acid | 04/10/2025 | 18:05 | 3-93 | 1440 | BDL | 2340 | 62 | |
| Benzyl alcohol | 04/10/2025 | 18:05 | 29-122 | 1610 | BDL | 2340 | 69 | |
| Bis(2-chloroethoxy)methane | 04/10/2025 | 18:05 | 36-121 | 1570 | BDL | 2340 | 67 | |
| Bis(2-chloroethyl)ether | 04/10/2025 | 18:05 | 31-120 | 1470 | BDL | 2340 | 63 | |
| Bis(2-ethylhexyl)phthalate | 04/10/2025 | 18:05 | 51-133 | 1920 | 108 | 2340 | 77 | |
| Butylbenzylphthalate | 04/10/2025 | 18:05 | 48-132 | 1990 | BDL | 2340 | 85 | |
| Carbazole | 04/10/2025 | 18:05 | 50-123 | 2840 | 2650 | 2340 | 8 | *FAIL* |
| Dibenzo(a,h)anthracene | 04/10/2025 | 18:05 | 45-134 | 1350 | 828 | 2340 | 22 | *FAIL* |
| Dibenzofuran | 04/10/2025 | 18:05 | 44-120 | 1940 | 572 | 2340 | 58 | |
| Diethylphthalate | 04/10/2025 | 18:05 | 50-124 | 1780 | BDL | 2340 | 76 | |
| Dimethylphthalate | 04/10/2025 | 18:05 | 48-124 | 1740 | BDL | 2340 | 74 | |
| Di-n-butylphthalate | 04/10/2025 | 18:05 | 51-128 | 1870 | BDL | 2340 | 80 | |
| Di-n-octylphthalate | 04/10/2025 | 18:05 | 45-140 | 1880 | BDL | 2340 | 80 | |
| Fluorene | 04/10/2025 | 18:05 | 43-125 | 2070 | 902 | 2340 | 50 | |
| Hexachlorobenzene | 04/10/2025 | 18:05 | 45-122 | 1750 | BDL | 2340 | 75 | |
| Hexachlorobutadiene | 04/10/2025 | 18:05 | 32-123 | 1450 | BDL | 2340 | 62 | |
| Hexachlorocyclopentadiene | 04/10/2025 | 18:05 | 35-106 | 466 | BDL | 2340 | 20 | *FAIL* |
| Hexachloroethane | 04/10/2025 | 18:05 | 28-117 | 1410 | BDL | 2340 | 60 | |
| Indeno(1,2,3-cd)pyrene | 04/10/2025 | 18:05 | 45-133 | 2320 | 3140 | 2340 | 0 | *FAIL* |
| Isophorone | 04/10/2025 | 18:05 | 30-122 | 1510 | BDL | 2340 | 65 | |
| Naphthalene | 04/10/2025 | 18:05 | 35-123 | 1610 | 244 | 2340 | 58 | |
| Nitrobenzene | 04/10/2025 | 18:05 | 34-122 | 1490 | BDL | 2340 | 64 | |
| N-Nitrosodimethylamine | 04/10/2025 | 18:05 | 23-120 | 1380 | BDL | 2340 | 59 | |
| N-Nitroso-di-n-propylamine | 04/10/2025 | 18:05 | 36-120 | 1480 | BDL | 2340 | 63 | |
| N-Nitrosodiphenylamine & Diphn | 04/10/2025 | 18:05 | 38-127 | 3250 | BDL | 4690 | 69 | |

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**3D**

***SOIL SEMIVOLATILE MATRIX SPIKE RECOVERY***

Sample Description

**SB-113-0-DFW**

Lab Name: CT Laboratories  Contract: HDR, INC-DDMT-DFW

Matrix: SOIL  SDG No.: 194024

Analytical Method: EPA 8270D  Concentration Units: ug/kg

Analytical Run #: 290730  Sample No.: 1569383  Parent Sample No.: 1568828

Analytical Prep Batch #: 138278  Analytical Preparation Date/Time: 04/08/2025 07:00

ICAL Calibration #: 2S040925

| Analyte | Analysis Date/Time | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|
| N-Nitrosopyrrolidine | 04/10/2025 18:05 | 45-126 | 1570 | BDL | 2340 | 67 | |
| Pentachlorophenol | 04/10/2025 18:05 | 25-133 | 1850 | BDL | 2340 | 79 | |
| Phenol | 04/10/2025 18:05 | 34-121 | 1590 | BDL | 2340 | 68 | |
| Pyridine | 04/10/2025 18:05 | 1-63 | 262 | BDL | 2340 | 11 | |

Analytical Run #: 290730  Sample No.: 1569383  Parent Sample No.: 1568828

Analytical Prep Batch #: 138278  Analytical Preparation Date/Time: 04/08/2025 07:00

ICAL Calibration #: 2S040925

| Analyte | Analysis Date/Time | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | 04/11/2025 12:59 | 49-126 | 6020 | 9110 | 2340 | 0 | *FAIL* |
| Benzo(a)pyrene | 04/11/2025 12:59 | 45-129 | 6060 | 9050 | 2340 | 0 | *FAIL* |
| Benzo(b)fluoranthene | 04/11/2025 12:59 | 45-132 | 8070 | 13900 | 2340 | 0 | *FAIL* |
| Chrysene | 04/11/2025 12:59 | 50-124 | 6300 | 9770 | 2340 | 0 | *FAIL* |
| Fluoranthene | 04/11/2025 12:59 | 50-127 | 12600 | 23400 | 2340 | 0 | *FAIL* |
| Phenanthrene | 04/11/2025 12:59 | 50-121 | 8640 | 15100 | 2340 | 0 | *FAIL* |
| Pyrene | 04/11/2025 12:59 | 47-127 | 9520 | 17000 | 2340 | 0 | *FAIL* |

Spike Recovery: 17 out of 73 outside QC limits

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3D

Sample Description

**SB-113-0-DFW**

***SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-DDMT-DFW

Matrix: SOIL | SDG No.: 194024

Analytical Method: EPA 8270D | Concentration Units: ug/kg

Analytical Run #: 290730 | Sample No.: 1569384 | Parent Sample No.: 1569383

Analytical Prep Batch #: 138278 | Analytical Preparation Date/Time: 04/08/2025 07:00

ICAL Calibration #: 2S040925

| Analyte | Analysis Date/Time | | Spike Result | Spike Amount | %R | %RPD | Control Limits (%R) | Control Limits (%RPD) | |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 04/10/2025 | 18:28 | 1680 | 2270 | 74 | 16 | 34-118 | 20 | |
| 1,2-Dichlorobenzene | 04/10/2025 | 18:28 | 1690 | 2270 | 74 | 18 | 33-117 | 20 | |
| 1,3-Dichlorobenzene | 04/10/2025 | 18:28 | 1680 | 2270 | 74 | 19 | 30-115 | 20 | |
| 1,4-Dichlorobenzene | 04/10/2025 | 18:28 | 1640 | 2270 | 72 | 18 | 31-115 | 20 | |
| 1-Methylnaphthalene | 04/10/2025 | 18:28 | 1880 | 2270 | 78 | 13 | 40-119 | 20 | |
| 2,4,5-Trichlorophenol | 04/10/2025 | 18:28 | 1970 | 2270 | 87 | 14 | 41-124 | 20 | |
| 2,4,6-Trichlorophenol | 04/10/2025 | 18:28 | 1940 | 2270 | 85 | 13 | 39-126 | 20 | |
| 2,4-Dichlorophenol | 04/10/2025 | 18:28 | 1860 | 2270 | 82 | 12 | 40-122 | 20 | |
| 2,4-Dimethylphenol | 04/10/2025 | 18:28 | 1060 | 2270 | 47 | 24 | 30-127 | 20 | *FAIL* |
| 2,4-Dinitrophenol | 04/10/2025 | 18:28 | 1690 | 2270 | 74 | 7 | 16-102 | 20 | |
| 2,4-Dinitrotoluene | 04/10/2025 | 18:28 | 2030 | 2270 | 89 | 15 | 48-126 | 20 | |
| 2,6-Dichlorophenol | 04/10/2025 | 18:28 | 1530 | 2270 | 67 | 15 | 41-117 | 20 | |
| 2,6-Dinitrotoluene | 04/10/2025 | 18:28 | 1990 | 2270 | 88 | 16 | 46-124 | 20 | |
| 2-Chloronaphthalene | 04/10/2025 | 18:28 | 1790 | 2270 | 79 | 12 | 41-114 | 20 | |
| 2-Chlorophenol | 04/10/2025 | 18:28 | 1730 | 2270 | 76 | 16 | 34-121 | 20 | |
| 2-Methylnaphthalene | 04/10/2025 | 18:28 | 1880 | 2270 | 76 | 13 | 38-122 | 20 | |
| 2-Methylphenol | 04/10/2025 | 18:28 | 1600 | 2270 | 70 | 10 | 32-122 | 20 | |
| 2-Nitroaniline | 04/10/2025 | 18:28 | 2010 | 2270 | 89 | 16 | 44-127 | 20 | |
| 2-Nitrophenol | 04/10/2025 | 18:28 | 1730 | 2270 | 76 | 15 | 36-123 | 20 | |
| 3 & 4-Methylphenol | 04/10/2025 | 18:28 | 1740 | 2270 | 77 | 12 | 34-119 | 20 | |
| 3,3'-Dichlorobenzidine | 04/10/2025 | 18:28 | 279 | 2270 | 12 | 92 | 22-121 | 20 | *FAIL* |
| 3-Nitroaniline | 04/10/2025 | 18:28 | 1100 | 2270 | 48 | 22 | 33-119 | 20 | *FAIL* |
| 4,6-Dinitro-2-methylphenol | 04/10/2025 | 18:28 | 1670 | 2270 | 74 | 8 | 29-132 | 20 | |
| 4-Bromophenyl-phenyl ether | 04/10/2025 | 18:28 | 1980 | 2270 | 87 | 16 | 46-124 | 20 | |
| 4-Chloro-3-methylphenol | 04/10/2025 | 18:28 | 1990 | 2270 | 88 | 13 | 45-122 | 20 | |
| 4-Chloroaniline | 04/10/2025 | 18:28 | 377 | 2270 | 17 | 4 | 17-106 | 20 | |
| 4-Chlorophenyl-phenyl ether | 04/10/2025 | 18:28 | 1940 | 2270 | 85 | 12 | 45-121 | 20 | |
| 4-Nitroaniline | 04/10/2025 | 18:28 | 1620 | 2270 | 71 | 23 | 44-125 | 20 | *FAIL* |
| 4-Nitrophenol | 04/10/2025 | 18:28 | 2140 | 2270 | 94 | 15 | 30-132 | 20 | |
| Acenaphthene | 04/10/2025 | 18:28 | 2880 | 2270 | 69 | 29 | 40-123 | 20 | *FAIL* |
| Acenaphthylene | 04/10/2025 | 18:28 | 1860 | 2270 | 82 | 12 | 32-132 | 20 | |

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3D

Sample Description

**SB-113-0-DFW**

***SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY***

Lab Name: CT Laboratories Contract: HDR, INC-DDMT-DFW

Matrix: SOIL SDG No.: 194024

Analytical Method: EPA 8270D Concentration Units: ug/kg

Analytical Run #: 290730 Sample No.: 1569384 Parent Sample No.: 1569383

Analytical Prep Batch #: 138278 Analytical Preparation Date/Time: 04/08/2025 07:00

ICAL Calibration #: 2S040925

| Analyte | Analysis Date/Time | | Spike Result | Spike Amount | %R | %RPD | Control Limits (%R) | Control Limits (%RPD) | |
|---|---|---|---|---|---|---|---|---|---|
| Aniline | 04/10/2025 | 18:28 | 177 | 2270 | 8 | 20 | 18-87 | 20 | *FAIL* |
| Anthracene | 04/10/2025 | 18:28 | 3510 | 2270 | 66 | 34 | 47-123 | 20 | *FAIL* |
| Azobenzene & 1,2-Diphenylhydra | 04/10/2025 | 18:28 | 4410 | 4540 | 97 | 16 | 39-125 | 20 | |
| Benzidine | 04/10/2025 | 18:28 | 11.8 | 2270 | 1 | 95 | 0-141 | 20 | *FAIL* |
| Benzo(g,h,i)perylene | 04/10/2025 | 18:28 | 2610 | 2270 | 0 | 21 | 43-134 | 20 | *FAIL* |
| Benzo(k)fluoranthene | 04/10/2025 | 18:28 | 4300 | 2270 | 45 | 15 | 47-132 | 20 | *FAIL* |
| Benzoic acid | 04/10/2025 | 18:28 | 1600 | 2270 | 70 | 14 | 3-93 | 20 | |
| Benzyl alcohol | 04/10/2025 | 18:28 | 1800 | 2270 | 79 | 14 | 29-122 | 20 | |
| Bis(2-chloroethoxy)methane | 04/10/2025 | 18:28 | 1710 | 2270 | 75 | 12 | 36-121 | 20 | |
| Bis(2-chloroethyl)ether | 04/10/2025 | 18:28 | 1690 | 2270 | 74 | 17 | 31-120 | 20 | |
| Bis(2-ethylhexyl)phthalate | 04/10/2025 | 18:28 | 2130 | 2270 | 89 | 14 | 51-133 | 20 | |
| Butylbenzylphthalate | 04/10/2025 | 18:28 | 2160 | 2270 | 95 | 11 | 48-132 | 20 | |
| Carbazole | 04/10/2025 | 18:28 | 3780 | 2270 | 50 | 31 | 50-123 | 20 | *FAIL* |
| Dibenzo(a,h)anthracene | 04/10/2025 | 18:28 | 1560 | 2270 | 32 | 18 | 45-134 | 20 | *FAIL* |
| Dibenzofuran | 04/10/2025 | 18:28 | 2330 | 2270 | 77 | 22 | 44-120 | 20 | *FAIL* |
| Diethylphthalate | 04/10/2025 | 18:28 | 1990 | 2270 | 88 | 14 | 50-124 | 20 | |
| Dimethylphthalate | 04/10/2025 | 18:28 | 1940 | 2270 | 85 | 14 | 48-124 | 20 | |
| Di-n-butylphthalate | 04/10/2025 | 18:28 | 2070 | 2270 | 91 | 13 | 51-128 | 20 | |
| Di-n-octylphthalate | 04/10/2025 | 18:28 | 2110 | 2270 | 93 | 15 | 45-140 | 20 | |
| Fluorene | 04/10/2025 | 18:28 | 2620 | 2270 | 76 | 26 | 43-125 | 20 | *FAIL* |
| Hexachlorobenzene | 04/10/2025 | 18:28 | 1930 | 2270 | 85 | 13 | 45-122 | 20 | |
| Hexachlorobutadiene | 04/10/2025 | 18:28 | 1670 | 2270 | 74 | 17 | 32-123 | 20 | |
| Hexachlorocyclopentadiene | 04/10/2025 | 18:28 | 607 | 2270 | 27 | 29 | 35-106 | 20 | *FAIL* |
| Hexachloroethane | 04/10/2025 | 18:28 | 1620 | 2270 | 71 | 17 | 28-117 | 20 | |
| Indeno(1,2,3-cd)pyrene | 04/10/2025 | 18:28 | 2820 | 2270 | 0 | 22 | 45-133 | 20 | *FAIL* |
| Isophorone | 04/10/2025 | 18:28 | 1680 | 2270 | 74 | 14 | 30-122 | 20 | |
| Naphthalene | 04/10/2025 | 18:28 | 1910 | 2270 | 73 | 20 | 35-123 | 20 | |
| Nitrobenzene | 04/10/2025 | 18:28 | 1730 | 2270 | 76 | 18 | 34-122 | 20 | |
| N-Nitrosodimethylamine | 04/10/2025 | 18:28 | 1600 | 2270 | 70 | 18 | 23-120 | 20 | |
| N-Nitroso-di-n-propylamine | 04/10/2025 | 18:28 | 1690 | 2270 | 74 | 16 | 36-120 | 20 | |
| N-Nitrosodiphenylamine & Diphn | 04/10/2025 | 18:28 | 3600 | 4540 | 79 | 13 | 38-127 | 20 | |

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Sample Description

**SB-113-0-DFW**

***SOIL SEMIVOLATILE MATRIX SPIKE DUPLICATE RECOVERY***

Lab Name: CT Laboratories Contract: HDR, INC-DDMT-DFW

Matrix: SOIL SDG No.: 194024

Analytical Method: EPA 8270D Concentration Units: ug/kg

Analytical Run #: 290730 Sample No.: 1569384 Parent Sample No.: 1569383

Analytical Prep Batch #: 138278 Analytical Preparation Date/Time: 04/08/2025 07:00

ICAL Calibration #: 2S040925

| Analyte | Analysis Date/Time | Spike Result | Spike Amount | %R | %RPD | Control Limits (%R) | Control Limits (%RPD) |
|---|---|---|---|---|---|---|---|
| N-Nitrosopyrrolidine | 04/10/2025 18:28 | 1750 | 2270 | 77 | 14 | 45-126 | 20 |
| Pentachlorophenol | 04/10/2025 18:28 | 2030 | 2270 | 89 | 13 | 25-133 | 20 |
| Phenol | 04/10/2025 18:28 | 1780 | 2270 | 78 | 14 | 34-121 | 20 |
| Pyridine | 04/10/2025 18:28 | 289 | 2270 | 13 | 13 | 1-63 | 20 |

Analytical Run #: 290730 Sample No.: 1569384 Parent Sample No.: 1569383

Analytical Prep Batch #: 138278 Analytical Preparation Date/Time: 04/08/2025 07:00

ICAL Calibration #: 2S040925

| Analyte | Analysis Date/Time | Spike Result | Spike Amount | %R | %RPD | Control Limits (%R) | Control Limits (%RPD) | |
|---|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | 04/11/2025 13:22 | 8570 | 2270 | 0 | 38 | 49-126 | 20 | *FAIL* |
| Benzo(a)pyrene | 04/11/2025 13:22 | 8040 | 2270 | 0 | 31 | 45-129 | 20 | *FAIL* |
| Benzo(b)fluoranthene | 04/11/2025 13:22 | 10700 | 2270 | 0 | 31 | 45-132 | 20 | *FAIL* |
| Chrysene | 04/11/2025 13:22 | 8580 | 2270 | 0 | 34 | 50-124 | 20 | *FAIL* |
| Fluoranthene | 04/11/2025 13:22 | 17900 | 2270 | 0 | 38 | 50-127 | 20 | *FAIL* |
| Phenanthrene | 04/11/2025 13:22 | 13200 | 2270 | 0 | 45 | 50-121 | 20 | *FAIL* |
| Pyrene | 04/11/2025 13:22 | 13200 | 2270 | 0 | 36 | 47-127 | 20 | *FAIL* |

RPD or Spike Recovery: 23 out of 73 outside QC limits

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**3D**

Sample Description

**LCS**

***SOIL SEMIVOLATILE LAB CONTROL SAMPLE***

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1569381
SDG No.: 194024
Analytical Method: EPA 8270D
Concentration Units: ug/kg

Sample No.: 1569381
Parent Sample No.: 0
Analytical Prep Batch #: 138278
Analytical Preparation Date/Time: 04/08/2025 07:00
Analytical Run #: 290730
ICAL Calibration #: 2S040925

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 04/10/2025 | 16:32 | 34-118 | 1480 | | 2000 | 74 |
| 1,2-Dichlorobenzene | 04/10/2025 | 16:32 | 33-117 | 1490 | | 2000 | 74 |
| 1,3-Dichlorobenzene | 04/10/2025 | 16:32 | 30-115 | 1490 | | 2000 | 74 |
| 1,4-Dichlorobenzene | 04/10/2025 | 16:32 | 31-115 | 1470 | | 2000 | 74 |
| 1-Methylnaphthalene | 04/10/2025 | 16:32 | 40-119 | 1580 | | 2000 | 79 |
| 2,4,5-Trichlorophenol | 04/10/2025 | 16:32 | 41-124 | 1700 | | 2000 | 85 |
| 2,4,6-Trichlorophenol | 04/10/2025 | 16:32 | 39-126 | 1680 | | 2000 | 84 |
| 2,4-Dichlorophenol | 04/10/2025 | 16:32 | 40-122 | 1620 | | 2000 | 81 |
| 2,4-Dimethylphenol | 04/10/2025 | 16:32 | 30-127 | 1320 | | 2000 | 66 |
| 2,4-Dinitrophenol | 04/10/2025 | 16:32 | 16-102 | 1110 | | 2000 | 56 |
| 2,4-Dinitrotoluene | 04/10/2025 | 16:32 | 48-126 | 1890 | | 2000 | 94 |
| 2,6-Dichlorophenol | 04/10/2025 | 16:32 | 41-117 | 1380 | | 2000 | 69 |
| 2,6-Dinitrotoluene | 04/10/2025 | 16:32 | 46-124 | 1800 | | 2000 | 90 |
| 2-Chloronaphthalene | 04/10/2025 | 16:32 | 41-114 | 1550 | | 2000 | 78 |
| 2-Chlorophenol | 04/10/2025 | 16:32 | 34-121 | 1570 | | 2000 | 78 |
| 2-Methylnaphthalene | 04/10/2025 | 16:32 | 38-122 | 1570 | | 2000 | 78 |
| 2-Methylphenol | 04/10/2025 | 16:32 | 32-122 | 1540 | | 2000 | 77 |
| 2-Nitroaniline | 04/10/2025 | 16:32 | 44-127 | 1740 | | 2000 | 87 |
| 2-Nitrophenol | 04/10/2025 | 16:32 | 36-123 | 1480 | | 2000 | 74 |
| 3 & 4-Methylphenol | 04/10/2025 | 16:32 | 34-119 | 1590 | | 2000 | 80 |
| 3,3'-Dichlorobenzidine | 04/10/2025 | 16:32 | 22-121 | 1270 | | 2000 | 64 |
| 3-Nitroaniline | 04/10/2025 | 16:32 | 33-119 | 1410 | | 2000 | 70 |
| 4,6-Dinitro-2-methylphenol | 04/10/2025 | 16:32 | 29-132 | 1480 | | 2000 | 74 |
| 4-Bromophenyl-phenyl ether | 04/10/2025 | 16:32 | 46-124 | 1770 | | 2000 | 88 |
| 4-Chloro-3-methylphenol | 04/10/2025 | 16:32 | 45-122 | 1810 | | 2000 | 90 |
| 4-Chloroaniline | 04/10/2025 | 16:32 | 17-106 | 923 | | 2000 | 46 |
| 4-Chlorophenyl-phenyl ether | 04/10/2025 | 16:32 | 45-121 | 1750 | | 2000 | 88 |
| 4-Nitroaniline | 04/10/2025 | 16:32 | 44-125 | 1930 | | 2000 | 96 |

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**3D**

Sample Description

**LCS**

***SOIL SEMIVOLATILE LAB CONTROL SAMPLE***

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1569381
SDG No.: 194024
Analytical Method: EPA 8270D
Concentration Units: ug/kg

Sample No.: 1569381
Parent Sample No.: 0
Analytical Prep Batch #: 138278
Analytical Preparation Date/Time: 04/08/2025 07:00
Analytical Run #: 290730
ICAL Calibration #: 2S040925

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| 4-Nitrophenol | 04/10/2025 | 16:32 | 30-132 | 1790 | | 2000 | 90 |
| Acenaphthene | 04/10/2025 | 16:32 | 40-123 | 1640 | | 2000 | 82 |
| Acenaphthylene | 04/10/2025 | 16:32 | 32-132 | 1590 | | 2000 | 80 |
| Aniline | 04/10/2025 | 16:32 | 18-87 | 852 | | 2000 | 43 |
| Anthracene | 04/10/2025 | 16:32 | 47-123 | 1820 | | 2000 | 91 |
| Azobenzene & 1,2-Diphenylhydra | 04/10/2025 | 16:32 | 39-125 | 3540 | | 4000 | 88 |
| Benzidine | 04/10/2025 | 16:32 | 0-141 | 0 | | 2000 | 0 |
| Benzo(a)anthracene | 04/10/2025 | 16:32 | 49-126 | 1820 | | 2000 | 91 |
| Benzo(a)pyrene | 04/10/2025 | 16:32 | 54-129 | 1820 | | 2000 | 91 |
| Benzo(b)fluoranthene | 04/10/2025 | 16:32 | 45-132 | 1850 | | 2000 | 92 |
| Benzo(g,h,i)perylene | 04/10/2025 | 16:32 | 43-134 | 1810 | | 2000 | 90 |
| Benzo(k)fluoranthene | 04/10/2025 | 16:32 | 47-132 | 1870 | | 2000 | 94 |
| Benzoic acid | 04/10/2025 | 16:32 | 3-93 | 811 | | 2000 | 41 |
| Benzyl alcohol | 04/10/2025 | 16:32 | 29-122 | 1580 | | 2000 | 79 |
| Bis(2-chloroethoxy)methane | 04/10/2025 | 16:32 | 36-121 | 1550 | | 2000 | 78 |
| Bis(2-chloroethyl)ether | 04/10/2025 | 16:32 | 31-120 | 1510 | | 2000 | 76 |
| Bis(2-ethylhexyl)phthalate | 04/10/2025 | 16:32 | 51-133 | 1890 | | 2000 | 94 |
| Butylbenzylphthalate | 04/10/2025 | 16:32 | 48-132 | 1870 | | 2000 | 94 |
| Carbazole | 04/10/2025 | 16:32 | 50-123 | 1920 | | 2000 | 96 |
| Chrysene | 04/10/2025 | 16:32 | 50-124 | 1790 | | 2000 | 90 |
| Dibenzo(a,h)anthracene | 04/10/2025 | 16:32 | 45-134 | 1810 | | 2000 | 90 |
| Dibenzofuran | 04/10/2025 | 16:32 | 44-120 | 1700 | | 2000 | 85 |
| Diethylphthalate | 04/10/2025 | 16:32 | 50-124 | 1840 | | 2000 | 92 |
| Dimethylphthalate | 04/10/2025 | 16:32 | 48-124 | 1790 | | 2000 | 90 |
| Di-n-butylphthalate | 04/10/2025 | 16:32 | 51-128 | 1880 | | 2000 | 94 |
| Di-n-octylphthalate | 04/10/2025 | 16:32 | 51-128 | 1810 | | 2000 | 90 |
| Fluoranthene | 04/10/2025 | 16:32 | 50-127 | 1850 | | 2000 | 92 |
| Fluorene | 04/10/2025 | 16:32 | 43-125 | 1750 | | 2000 | 88 |

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**3D**

Sample Description

***SOIL SEMIVOLATILE LAB CONTROL SAMPLE***

**LCS**

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Sample No.: 1569381
SDG No.: 194024
Analytical Method: EPA 8270D
Concentration Units: ug/kg

Sample No.: 1569381
Parent Sample No.: 0
Analytical Prep Batch #: 138278
Analytical Preparation Date/Time: 04/08/2025 07:00
Analytical Run #: 290730
ICAL Calibration #: 2S040925

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|---|
| Hexachlorobenzene | 04/10/2025 | 16:32 | 45-122 | 1780 | | 2000 | 89 | |
| Hexachlorobutadiene | 04/10/2025 | 16:32 | 32-123 | 1480 | | 2000 | 74 | |
| Hexachlorocyclopentadiene | 04/10/2025 | 16:32 | 35-106 | 43.8 | | 2000 | 2 | *FAIL* |
| Hexachloroethane | 04/10/2025 | 16:32 | 28-117 | 1400 | | 2000 | 70 | |
| Indeno(1,2,3-cd)pyrene | 04/10/2025 | 16:32 | 45-133 | 1820 | | 2000 | 91 | |
| Isophorone | 04/10/2025 | 16:32 | 30-122 | 1480 | | 2000 | 74 | |
| Naphthalene | 04/10/2025 | 16:32 | 35-123 | 1530 | | 2000 | 76 | |
| Nitrobenzene | 04/10/2025 | 16:32 | 34-122 | 1520 | | 2000 | 76 | |
| N-Nitrosodimethylamine | 04/10/2025 | 16:32 | 23-120 | 1430 | | 2000 | 72 | |
| N-Nitroso-di-n-propylamine | 04/10/2025 | 16:32 | 36-120 | 1500 | | 2000 | 75 | |
| N-Nitrosodiphenylamine & Diphn | 04/10/2025 | 16:32 | 38-127 | 3350 | | 4000 | 84 | |
| N-Nitrosopyrrolidine | 04/10/2025 | 16:32 | 45-126 | 1530 | | 2000 | 76 | |
| Pentachlorophenol | 04/10/2025 | 16:32 | 25-133 | 1340 | | 2000 | 67 | |
| Phenanthrene | 04/10/2025 | 16:32 | 50-121 | 1800 | | 2000 | 90 | |
| Phenol | 04/10/2025 | 16:32 | 34-121 | 1580 | | 2000 | 79 | |
| Pyrene | 04/10/2025 | 16:32 | 47-127 | 1830 | | 2000 | 92 | |
| Pyridine | 04/10/2025 | 16:32 | 1-63 | 278 | | 2000 | 14 | |

Spike Recovery: 1 out of 73 outside limits

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**4B**

***SEMIVOLATILE METHOD BLANK SUMMARY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample ID: | 1569377 | SDG No.: | 194024 |
| Matrix: | LIQUID | Date Extracted: | 04/07/2025 |
| Date Analyzed: | 04/08/2025 | Time Analyzed: | 13:35 |
| Analytical Method: | EPA 8270D | Extraction Method: | SW3510 |
| Analytical Run #: | 290647 | Extraction Batch #: | 138277 |
| | | ICAL Calibration #: | 2S040725 |

***THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:***

| SEQUENCE | SAMPLE DESCRIPTION | SAMPLE ID | DATE/TIME ANALYZED | CALIBRATION # ID |
|---|---|---|---|---|
| 1 | MBW | 1569377 | 04/08/2025 13:35 | 2S040725 |
| 2 | LCSW | 1569378 | 04/08/2025 13:58 | 2S040725 |
| 3 | LCSDW | 1569379 | 04/08/2025 14:21 | 2S040725 |
| 4 | RB-01-DFW | 1568824 | 04/08/2025 14:44 | 2S040725 |

CT LABORATORIES
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**4B**

***SEMIVOLATILE METHOD BLANK SUMMARY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample ID: | 1569380 | SDG No.: | 194024 |
| Matrix: | SOLID | Date Extracted: | 04/08/2025 |
| Date Analyzed: | 04/10/2025 | Time Analyzed: | 16:08 |
| Analytical Method: | EPA 8270D | Extraction Method: | SW3546 |
| Analytical Run #: | 290730 | Extraction Batch #: | 138278 |
| | | ICAL Calibration #: | 2S040925 |

***THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:***

| SEQUENCE | SAMPLE DESCRIPTION | SAMPLE ID | DATE/TIME ANALYZED | CALIBRATION # ID |
|---|---|---|---|---|
| 1 | MBS | 1569380 | 04/10/2025 16:08 | 2S040925 |
| 2 | LCSS | 1569381 | 04/10/2025 16:32 | 2S040925 |
| 3 | SB-112-5-DFW | 1568821 | 04/10/2025 16:55 | 2S040925 |
| 4 | SB-118-0-DFW | 1568839 | 04/10/2025 17:18 | 2S040925 |
| 5 | SB-113-0-DFW | 1568828 | 04/10/2025 17:41 | 2S040925 |
| 6 | SB-113-0-DFWMSS | 1569383 | 04/10/2025 18:05 | 2S040925 |
| 7 | SB-113-0-DFWMSDS | 1569384 | 04/10/2025 18:28 | 2S040925 |
| 8 | SB-111-5-DFW | 1568823 | 04/10/2025 19:14 | 2S040925 |
| 9 | SB-113-5-DFW | 1568830 | 04/10/2025 19:38 | 2S040925 |
| 10 | SB-122-0-DFW | 1568844 | 04/10/2025 20:01 | 2S040925 |
| 11 | SB-115-0-DFW | 1568836 | 04/10/2025 20:24 | 2S040925 |
| 12 | SB-120-0-DFW | 1568843 | 04/10/2025 21:10 | 2S040925 |
| 13 | SB-121-0-DFW | 1568845 | 04/10/2025 21:34 | 2S040925 |
| 14 | SB-111-0-DFW | 1568822 | 04/10/2025 21:57 | 2S040925 |
| 15 | DUP-1-DFW | 1568846 | 04/10/2025 22:20 | 2S040925 |
| 16 | SB-116-0-DFW | 1568838 | 04/10/2025 23:07 | 2S040925 |
| 17 | SB-119-0-DFW | 1568842 | 04/10/2025 23:30 | 2S040925 |
| 18 | SB-117-0-DFW | 1568841 | 04/10/2025 23:53 | 2S040925 |
| 19 | SB-114-0-DFW | 1568834 | 04/11/2025 00:17 | 2S040925 |
| 20 | DUP-2-DFW | 1568832 | 04/11/2025 00:40 | 2S040925 |
| 21 | SB-112-0-DFW | 1568820 | 04/11/2025 01:03 | 2S040925 |
| 22 | SB-118-0-DFW | 1568839 | 04/11/2025 12:13 | 2S040925 |
| 23 | SB-113-0-DFW | 1568828 | 04/11/2025 12:36 | 2S040925 |
| 24 | SB-113-0-DFWMSS | 1569383 | 04/11/2025 12:59 | 2S040925 |
| 25 | SB-113-0-DFWMSDS | 1569384 | 04/11/2025 13:22 | 2S040925 |
| 26 | SB-111-5-DFW | 1568823 | 04/11/2025 14:09 | 2S040925 |
| 27 | SB-122-0-DFW | 1568844 | 04/11/2025 14:32 | 2S040925 |
| 28 | SB-115-0-DFW | 1568836 | 04/11/2025 14:55 | 2S040925 |
| 29 | SB-120-0-DFW | 1568843 | 04/11/2025 15:18 | 2S040925 |
| 30 | SB-121-0-DFW | 1568845 | 04/11/2025 16:04 | 2S040925 |

CT LABORATORIES
delivering more than data from your environmental analyses

**4B**

***SEMIVOLATILE METHOD BLANK SUMMARY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Sample ID: | 1569380 | SDG No.: | 194024 |
| Matrix: | SOLID | Date Extracted: | 04/08/2025 |
| Date Analyzed: | 04/10/2025 | Time Analyzed: | 16:08 |
| Analytical Method: | EPA 8270D | Extraction Method: | SW3546 |
| Analytical Run #: | 290730 | Extraction Batch #: | 138278 |
| | | ICAL Calibration #: | 2S040925 |

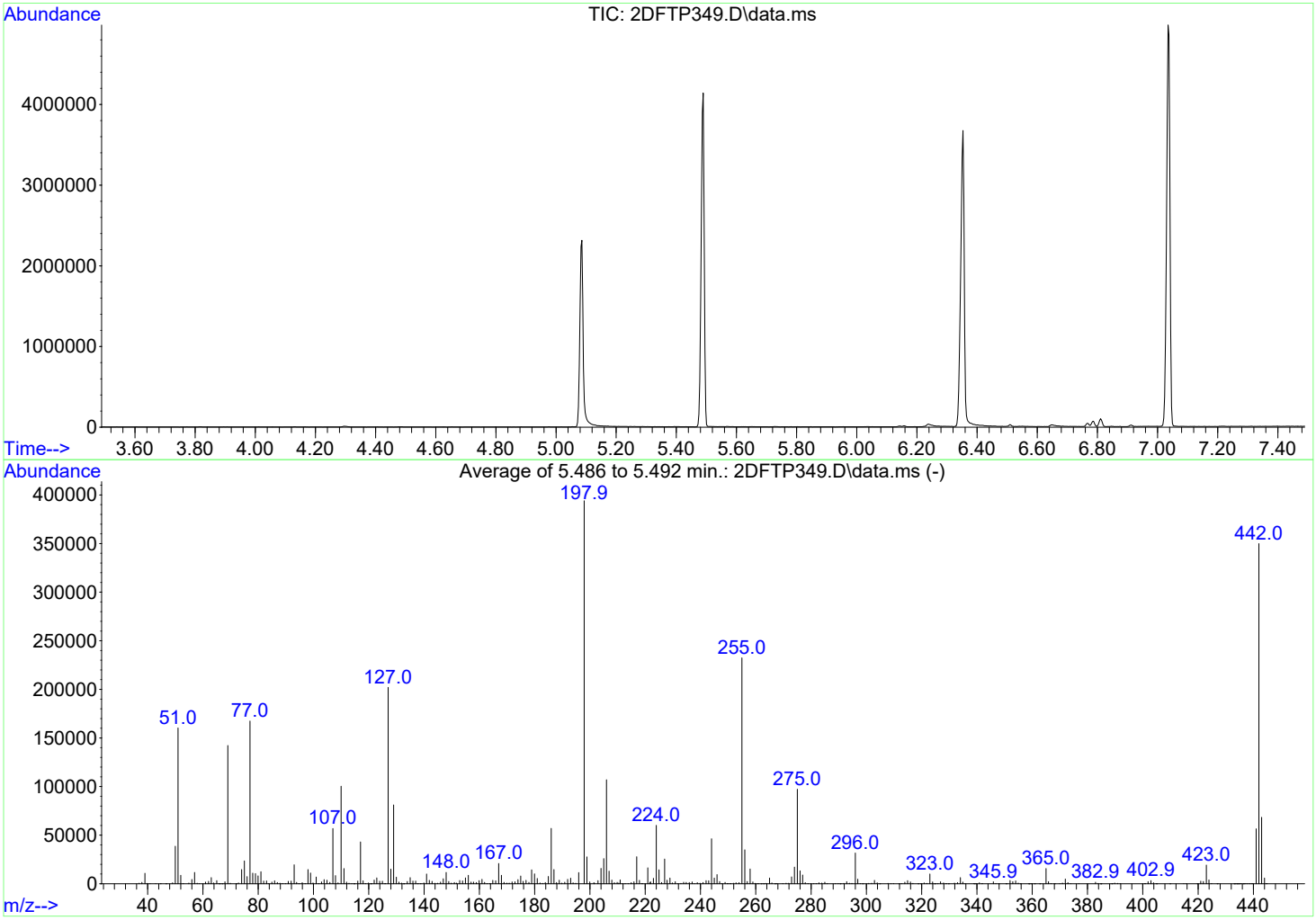
***THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:***

| SEQUENCE | SAMPLE DESCRIPTION | SAMPLE ID | DATE/TIME ANALYZED | CALIBRATION # ID |
|---|---|---|---|---|
| 31 | SB-111-0-DFW | 1568822 | 04/11/2025 16:28 | 2S040925 |
| 32 | DUP-1-DFW | 1568846 | 04/11/2025 16:51 | 2S040925 |
| 33 | SB-116-0-DFW | 1568838 | 04/11/2025 17:14 | 2S040925 |
| 34 | SB-119-0-DFW | 1568842 | 04/11/2025 18:00 | 2S040925 |
| 35 | SB-117-0-DFW | 1568841 | 04/11/2025 18:23 | 2S040925 |
| 36 | SB-114-0-DFW | 1568834 | 04/11/2025 18:46 | 2S040925 |
| 37 | DUP-2-DFW | 1568832 | 04/11/2025 19:09 | 2S040925 |
| 38 | SB-112-0-DFW | 1568820 | 04/11/2025 19:33 | 2S040925 |
| 39 | SB-116-0-DFW | 1568838 | 04/11/2025 19:56 | 2S040925 |
| 40 | SB-117-0-DFW | 1568841 | 04/14/2025 14:45 | 2S040925 |

Data Path : C:\INSTARCH\DATA\2S040725\
Data File : 2DFTP349.D
Acq On : 7 Apr 2025 9:57
Operator : JJY
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Fri Apr 04 09:43:54 2025




AutoFind: Scans 951, 952, 953; Background Corrected with Scan 942

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 40.7 | 160280 | PASS |
| 68 | 69 | 0.00 | 2 | 1.4 | 2055 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 548 | PASS |
| 127 | 198 | 10 | 80 | 51.3 | 202048 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 394048 | PASS |
| 199 | 198 | 5 | 9 | 7.0 | 27669 | PASS |
| 275 | 198 | 10 | 60 | 24.7 | 97229 | PASS |
| 365 | 198 | 1 | 100 | 4.0 | 15664 | PASS |
| 441 | 442 | 0.01 | 24 | 16.2 | 56587 | PASS |
| 442 | 198 | 50 | 100 | 88.8 | 349995 | PASS |
| 443 | 442 | 15 | 24 | 19.6 | 68477 | PASS |

# Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S040725.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S040725\2DFTP349.D
Injection Date : 7 Apr 2025 Log Time Period (hrs) : 12
Injection Time : 09:57 Total files within period : 21
Sample Directory : C:\INSTARCH\DATA\2S040725\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| 2IB01 | 1.00 | 1.00 | 1.00 | Instrument Blank<br>1000 ul + 10ul IS S5036C | 7 Apr 2025 | 10:13 |
| 2ICAL7 | 1.00 | 1.00 | 1.00 | ICAL 50 ug/mL SVMS10297<br>500 ul + 5ul IS S5036C | 7 Apr 2025 | 10:36 |
| 2ICAL6 | 1.00 | 1.00 | 1.00 | ICAL 40 ug/mL SVMS10296<br>500 ul + 5ul IS S5036C | 7 Apr 2025 | 10:59 |
| 2ICAL5 | 1.00 | 1.00 | 1.00 | ICAL 30 ug/mL SVMS10295<br>500 ul + 5ul IS S5036C | 7 Apr 2025 | 11:22 |
| 2ICAL4 | 1.00 | 1.00 | 1.00 | ICAL 20 ug/mL SVMS10294<br>500 ul + 5ul IS S5036C | 7 Apr 2025 | 11:45 |
| 2ICAL3 | 1.00 | 1.00 | 1.00 | ICAL 10 ug/mL SVMS10293<br>500 ul + 5ul IS S5036C | 7 Apr 2025 | 12:08 |
| 2ICAL2 | 1.00 | 1.00 | 1.00 | ICAL 5 ug/mL SVMS10292<br>500 ul + 5ul IS S5036C | 7 Apr 2025 | 12:31 |
| 2ICAL1 | 1.00 | 1.00 | 1.00 | ICAL 1 ug/mL SVMS10291<br>500 ul + 5ul IS S5036C | 7 Apr 2025 | 12:54 |
| 2ICV1 | 1.00 | 1.00 | 1.00 | ICV 20 ug/mL SVMS10288<br>500 ul + 5ul IS S5036C | 7 Apr 2025 | 13:18 |
| 2ICV2 | 1.00 | 1.00 | 1.00 | ICV 40 ug/mL SVMS10289<br>500 ul + 5ul IS S5036C | 7 Apr 2025 | 13:41 |
| 2IB02 | 1.00 | 1.00 | 1.00 | Instrument Blank<br>1000 ul + 10ul IS S5036C | 7 Apr 2025 | 14:04 |
| 2ICAL7A | 1.00 | 1.00 | 1.00 | ICAL A 50 ug/mL SVMS10194<br>500 ul + 5ul IS S5008B | 7 Apr 2025 | 14:27 |
| 2ICAL6A | 1.00 | 1.00 | 1.00 | ICAL A 40 ug/mL SVMS10193<br>500 ul + 5ul IS S5008B | 7 Apr 2025 | 14:50 |
| 2ICAL5A | 1.00 | 1.00 | 1.00 | ICAL A 30 ug/mL SVMS10192<br>500 ul + 5ul IS S5008B | 7 Apr 2025 | 15:13 |
| 2ICAL4A | 1.00 | 1.00 | 1.00 | ICAL A 20 ug/mL SVMS10191<br>500 ul + 5ul IS S5008B | 7 Apr 2025 | 15:36 |
| 2ICAL3A | 1.00 | 1.00 | 1.00 | ICAL A 10 ug/mL SVMS10190<br>500 ul + 5ul IS S5008B | 7 Apr 2025 | 15:59 |
| 2ICAL2A | 1.00 | 1.00 | 1.00 | ICAL A 5 ug/mL SVMS10189<br>500 ul + 5ul IS S5008B | 7 Apr 2025 | 16:22 |
| 2ICAL1A | 1.00 | 1.00 | 1.00 | ICAL A 1 ug/mL SVMS10188<br>500 ul + 5ul IS S5008B | 7 Apr 2025 | 16:45 |
| 2ICV1A | 1.00 | 1.00 | 1.00 | ICV A 20 ug/mL SVMS10195<br>500 ul + 5ul IS S5008B | 7 Apr 2025 | 17:09 |
| 2ICV2A | 1.00 | 1.00 | 1.00 | ICV A 40 ug/mL SVMS10196<br>500 ul + 5ul IS S5008B | 7 Apr 2025 | 17:32 |
| 2IB03 | 1.00 | 1.00 | 1.00 | Instrument blank<br>1000 ul + 10ul IS S5036C | 7 Apr 2025 | 17:55 |

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 7 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 11:45
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 175406 | 4.39 | 842148 | 6.07 | 472974 | 7.84 |
| UPPER LIMIT | 350812 | 4.89 | 1684296 | 6.57 | 945948 | 8.34 |
| LOWER LIMIT | 87703 | 3.89 | 421074 | 5.57 | 236487 | 7.34 |
| File ID Sample | | | | | | |
| 2IB01 Instrumen | 171868 | 4.39 | 795808 | 6.07 | 430499 | 7.84 |
| 2IB02 Instrumen | 163441 | 4.38 | 773077 | 6.07 | 418077 | 7.83 |
| 2IB03 Instrumen | 167142 | 4.38 | 784615 | 6.07 | 437515 | 7.83 |
| 2ICAL1 ICAL 1 ug | 173860 | 4.39 | 824788 | 6.07 | 458044 | 7.84 |
| 2ICAL1A ICAL A 1 | 203359 | 4.39 | 917813 | 6.07 | 500229 | 7.84 |
| 2ICAL2 ICAL 5 ug | 182466 | 4.39 | 859004 | 6.07 | 481537 | 7.84 |
| 2ICAL2A ICAL A 5 | 203644 | 4.38 | 927807 | 6.07 | 505352 | 7.83 |
| 2ICAL3 ICAL 10 u | 179136 | 4.39 | 855342 | 6.07 | 474206 | 7.84 |
| 2ICAL3A ICAL A 10 | 206323 | 4.39 | 951034 | 6.07 | 512775 | 7.84 |
| 2ICAL4 ICAL 20 u | 175406 | 4.39 | 842148 | 6.07 | 472974 | 7.84 |
| 2ICAL4A ICAL A 20 | 194229 | 4.39 | 884516 | 6.07 | 481235 | 7.84 |
| 2ICAL5 ICAL 30 u | 175160 | 4.39 | 850911 | 6.07 | 479840 | 7.84 |
| 2ICAL5A ICAL A 30 | 183767 | 4.39 | 846767 | 6.07 | 461388 | 7.84 |
| 2ICAL6 ICAL 40 u | 182283 | 4.39 | 867423 | 6.07 | 491288 | 7.84 |
| 2ICAL6A ICAL A 40 | 188239 | 4.39 | 857967 | 6.07 | 467036 | 7.84 |
| 2ICAL7 ICAL 50 u | 175995 | 4.39 | 849340 | 6.07 | 464237 | 7.84 |
| 2ICAL7A ICAL A 50 | 186791 | 4.39 | 858447 | 6.07 | 467284 | 7.84 |
| 2ICV1 ICV 20 ug | 169854 | 4.39 | 787545 | 6.07 | 434850 | 7.84 |
| 2ICV1A ICV A 20 | 215070 | 4.39 | 983604 | 6.07 | 530354 | 7.84 |
| 2ICV2 ICV 40 ug | 173302 | 4.39 | 825893 | 6.07 | 452405 | 7.84 |
| 2ICV2A ICV A 40 | 220486 | 4.39 | 997708 | 6.07 | 541040 | 7.84 |

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 7 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 11:45
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 670576 | 8.88 | 567464 | 10.78 | 597589 | 12.38 |
| UPPER LIMIT | 1341152 | 9.38 | 1134928 | 11.28 | 1195178 | 12.88 |
| LOWER LIMIT | 335288 | 8.38 | 283732 | 10.28 | 298795 | 11.88 |
| File ID Sample | | | | | | |
| 2IB01 Instrumen | 608560 | 8.88 | 533241 | 10.78 | 553632 | 12.37 |
| 2IB02 Instrumen | 576783 | 8.88 | 506981 | 10.78 | 520536 | 12.38 |
| 2IB03 Instrumen | 620910 | 8.88 | 532828 | 10.78 | 546790 | 12.37 |
| 2ICAL1 ICAL 1 ug | 651443 | 8.88 | 578280 | 10.78 | 600569 | 12.38 |
| 2ICAL1A ICAL A 1 | 702270 | 8.88 | 639916 | 10.78 | 667675 | 12.38 |
| 2ICAL2 ICAL 5 ug | 684269 | 8.88 | 603820 | 10.78 | 627022 | 12.37 |
| 2ICAL2A ICAL A 5 | 718905 | 8.88 | 627220 | 10.78 | 641246 | 12.38 |
| 2ICAL3 ICAL 10 u | 666402 | 8.88 | 586036 | 10.78 | 614998 | 12.38 |
| 2ICAL3A ICAL A 10 | 710017 | 8.88 | 629770 | 10.78 | 659436 | 12.38 |
| 2ICAL4 ICAL 20 u | 670576 | 8.88 | 567464 | 10.78 | 597589 | 12.38 |
| 2ICAL4A ICAL A 20 | 670495 | 8.88 | 586155 | 10.78 | 595005 | 12.38 |
| 2ICAL5 ICAL 30 u | 684937 | 8.88 | 570113 | 10.79 | 610521 | 12.38 |
| 2ICAL5A ICAL A 30 | 647123 | 8.88 | 573424 | 10.78 | 594615 | 12.38 |
| 2ICAL6 ICAL 40 u | 705115 | 8.88 | 571481 | 10.79 | 642040 | 12.38 |
| 2ICAL6A ICAL A 40 | 650129 | 8.88 | 553840 | 10.78 | 558476 | 12.37 |
| 2ICAL7 ICAL 50 u | 674642 | 8.89 | 530924 | 10.79 | 617109 | 12.38 |
| 2ICAL7A ICAL A 50 | 662095 | 8.88 | 591126 | 10.78 | 611809 | 12.38 |
| 2ICV1 ICV 20 ug | 614140 | 8.88 | 520867 | 10.78 | 544848 | 12.38 |
| 2ICV1A ICV A 20 | 741730 | 8.88 | 649223 | 10.78 | 652028 | 12.38 |
| 2ICV2 ICV 40 ug | 652474 | 8.88 | 522015 | 10.79 | 571938 | 12.38 |
| 2ICV2A ICV A 40 | 756791 | 8.88 | 692698 | 10.78 | 735455 | 12.38 |

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

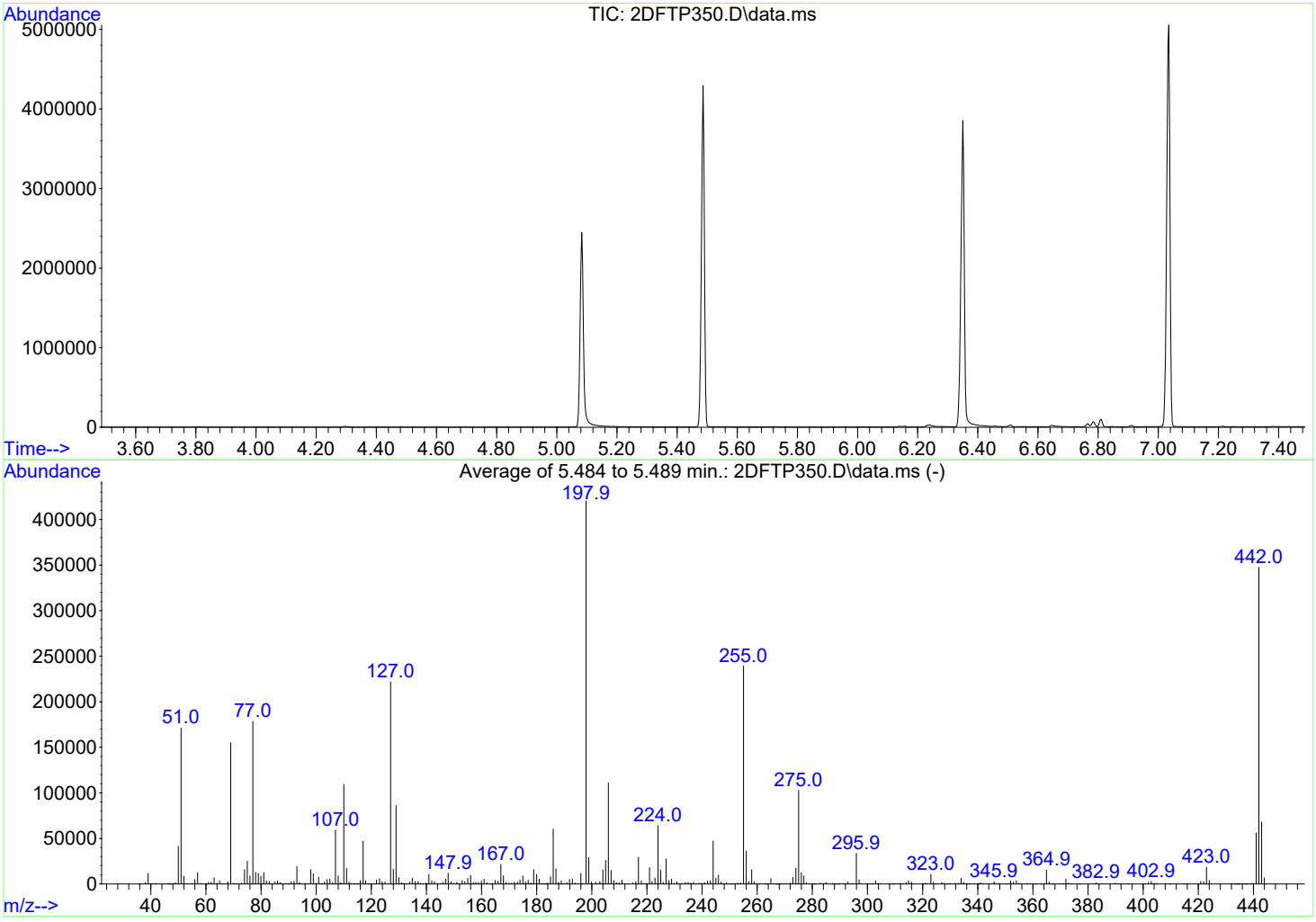
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

Data Path : C:\INSTARCH\DATA\2S040825\
Data File : 2DFTP350.D
Acq On : 8 Apr 2025 9:42
Operator : JJY
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Tue Apr 08 09:55:52 2025




AutoFind: Scans 950, 951, 952; Background Corrected with Scan 941

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 40.7 | 171154 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 2328 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 776 | PASS |
| 127 | 198 | 10 | 80 | 52.7 | 221739 | PASS |
| 197 | 198 | 0.00 | 2 | 0.2 | 790 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 420501 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 28880 | PASS |
| 275 | 198 | 10 | 60 | 24.4 | 102795 | PASS |
| 365 | 198 | 1 | 100 | 3.7 | 15488 | PASS |
| 441 | 442 | 0.01 | 24 | 16.1 | 55883 | PASS |
| 442 | 198 | 50 | 100 | 82.6 | 347541 | PASS |
| 443 | 442 | 15 | 24 | 19.6 | 68053 | PASS |

# Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S040725.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S040825\2DFTP350.D
Injection Date : 8 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 09:42 Total files within period : 37
Sample Directory : C:\INSTARCH\DATA\2S040825\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| 2CCV398 | 1.00 | 1.00 | 1.00 | CCV 20 ug/mL SVMS10298 500 ul + 5ul IS S5036C | 8 Apr 2025 | 09:57 |
| 2CCV399 | 1.00 | 1.00 | 1.00 | CCV A 20 ug/mL SVMS10197 500 ul + 5ul IS S5008B | 8 Apr 2025 | 10:20 |
| 2IB01 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 8 Apr 2025 | 10:49 |
| 2MBS01 | 1.00 | 1.00 | 1.00 | 289676,MBS, 1557003,500 ul + 5ul IS S | 8 Apr 2025 | 11:12 |
| 1556926 | 1.00 | 1.00 | 1.00 | 289676,1556926, 500 ul + 5ul IS S5036C | 8 Apr 2025 | 11:35 |
| 1556927 | 1.00 | 1.00 | 1.00 | 289676,1556927, 500 ul + 5ul IS S5036C | 8 Apr 2025 | 12:02 |
| 1556928 | 1.00 | 1.00 | 1.00 | 289676,1556928, 500 ul + 5ul IS S5036C | 8 Apr 2025 | 12:25 |
| 1556929 | 1.00 | 1.00 | 1.00 | 289676,1556929, 500 ul + 5ul IS S5036C | 8 Apr 2025 | 12:48 |
| 2IB02 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 8 Apr 2025 | 13:12 |
| 2MBW01 | 1.00 | 1.00 | 1.00 | 290647,MBW, 1569377,500 ul + 5ul IS S | 8 Apr 2025 | 13:35 |
| 2LCSW01 | 1.00 | 1.00 | 1.00 | 290647,LCSW, 1569378,500 ul + 5ul IS S | 8 Apr 2025 | 13:58 |
| 2LCSDW01 | 1.00 | 1.00 | 1.00 | 290647,LCSDW, 1569379,500 ul + 5ul IS S | 8 Apr 2025 | 14:21 |
| 1568824 | 1.00 | 1.00 | 1.00 | 290647,1568824, 500 ul + 5ul IS S5036C | 8 Apr 2025 | 14:44 |
| 1569376 | 1.00 | 1.00 | 1.00 | 290647,1569376, 500 ul + 5ul IS S5036C | 8 Apr 2025 | 15:07 |
| 2DFTP351 | 1.00 | 1.00 | 1.00 | DFTPP TUNE SVMS10212 SVMS2, 25 ng DFTPP | 8 Apr 2025 | 15:26 |
| 2CCV400 | 1.00 | 1.00 | 1.00 | CCV 20 ug/mL SVMS10298 500 ul + 5ul IS S5036C | 8 Apr 2025 | 15:41 |
| 2CCV401 | 1.00 | 1.00 | 1.00 | CCV A 20 ug/mL SVMS10197 500 ul + 5ul IS S5008B | 8 Apr 2025 | 16:04 |
| 2IB03 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 8 Apr 2025 | 16:28 |
| 2MBW02 | 1.00 | 1.00 | 1.00 | 290451,MBW, 1567257,500 ul + 5ul IS S | 8 Apr 2025 | 16:51 |
| 2LCSW02 | 1.00 | 1.00 | 1.00 | 290451,LCSW, 1567258,500 ul + 5ul IS S | 8 Apr 2025 | 17:14 |
| 1566605 | 1.00 | 1.00 | 1.00 | 290451,1566605, 500 ul + 5ul IS S5036C | 8 Apr 2025 | 17:37 |
| 1567253 | 1.00 | 1.00 | 1.00 | 290451,1567253, 500 ul + 5ul IS S5036C | 8 Apr 2025 | 18:00 |

# Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S040725.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S040825\2DFTP350.D
Injection Date : 8 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 09:42 Total files within period : 37
Sample Directory : C:\INSTARCH\DATA\2S040825\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| 1567253S | 1.00 | 1.00 | 1.00 | 290451,MSW1567253, 1567260,500 ul + 5ul IS S | 8 Apr 2025 | 18:23 |
| 1567253D | 1.00 | 1.00 | 1.00 | 290451,MSDW1567253, 1567261,500 ul + 5ul IS S | 8 Apr 2025 | 18:46 |
| 2IB04 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 8 Apr 2025 | 19:09 |
| 2MBW03 | 1.00 | 1.00 | 1.00 | 290646,MBW, 1568502,500 ul + 5ul IS S | 8 Apr 2025 | 19:32 |
| 2LCSW03 | 1.00 | 1.00 | 1.00 | 290646,LCSW, 1568503,500 ul + 5ul IS S | 8 Apr 2025 | 19:56 |
| 1568474 | 1.00 | 1.00 | 1.00 | 290646,1568474,10 500 ul + 5ul IS S5036C | 8 Apr 2025 | 20:19 |
| 1568501 | 1.00 | 1.00 | 1.00 | 290646,1568501, 500 ul + 5ul IS S5036C | 8 Apr 2025 | 20:42 |
| 1568501S | 1.00 | 1.00 | 1.00 | 290646,MSW1568501, 1568505,500 ul + 5ul IS S | 8 Apr 2025 | 21:05 |
| 1568501D | 1.00 | 1.00 | 1.00 | 290646,MSDW1568501, 1568506,500 ul + 5ul IS S | 8 Apr 2025 | 21:28 |
| 2IB05 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 8 Apr 2025 | 21:51 |
| 2MBW04 | 1.00 | 1.00 | 1.00 | 290450,MBW, 1567254,500 ul + 5ul IS S | 8 Apr 2025 | 22:15 |
| 2LCSW04 | 1.00 | 1.00 | 1.00 | 290450,LCSW, 1567255,500 ul + 5ul IS S | 8 Apr 2025 | 22:38 |
| 2LCSDW04 | 1.00 | 1.00 | 1.00 | 290450,LCSDW, 1567256,500 ul + 5ul IS S | 8 Apr 2025 | 23:01 |
| 1566663 | 1.00 | 1.00 | 1.00 | 290450,1566663,10 500 ul + 5ul IS S5036C | 8 Apr 2025 | 23:25 |
| 2IB06 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 8 Apr 2025 | 23:48 |

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 7 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 11:45
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 175406 | 4.39 | 842148 | 6.07 | 472974 | 7.84 |
| UPPER LIMIT | 350812 | 4.89 | 1684296 | 6.57 | 945948 | 8.34 |
| LOWER LIMIT | 87703 | 3.89 | 421074 | 5.57 | 236487 | 7.34 |
| File ID Sample | | | | | | |
| 1556926 289676,15 | 162996 | 4.38 | 746122 | 6.07 | 401050 | 7.84 |
| 1556927 289676,15 | 167967 | 4.38 | 772009 | 6.07 | 419419 | 7.84 |
| 1556928 289676,15 | 166680 | 4.38 | 765033 | 6.07 | 415254 | 7.84 |
| 1556929 289676,15 | 168419 | 4.38 | 784775 | 6.07 | 424775 | 7.84 |
| 1568824 290647,15 | 168890 | 4.38 | 833114 | 6.07 | 465485 | 7.83 |
| 1569376 290647,15 | 168644 | 4.39 | 831479 | 6.07 | 467111 | 7.84 |
| 2CCV398 CCV 20 ug | 180468 | 4.39 | 856599 | 6.07 | 482902 | 7.84 |
| 2CCV399 CCV A 20 | 172214 | 4.38 | 788709 | 6.07 | 426087 | 7.84 |
| 2CCV400 CCV 20 ug | 177468 | 4.39 | 837929 | 6.07 | 472134 | 7.84 |
| 2CCV401 CCV A 20 | 171569 | 4.38 | 794945 | 6.07 | 431778 | 7.83 |
| 2IB01 Instrumen | 179651 | 4.38 | 833508 | 6.07 | 457412 | 7.83 |
| 2IB02 Instrumen | 174298 | 4.38 | 831931 | 6.07 | 460117 | 7.83 |
| 2LCSDW01 290647,LC | 165866 | 4.39 | 814716 | 6.07 | 462968 | 7.84 |
| 2LCSW01 290647,LC | 171007 | 4.39 | 843102 | 6.07 | 475009 | 7.84 |
| 2MBS01 289676,MB | 162685 | 4.38 | 735249 | 6.07 | 396905 | 7.83 |
| 2MBW01 290647,MB | 186748 | 4.39 | 883662 | 6.07 | 496258 | 7.84 |

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 7 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 11:45
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 670576 | 8.88 | 567464 | 10.78 | 597589 | 12.38 |
| UPPER LIMIT | 1341152 | 9.38 | 1134928 | 11.28 | 1195178 | 12.88 |
| LOWER LIMIT | 335288 | 8.38 | 283732 | 10.28 | 298795 | 11.88 |
| File ID Sample | | | | | | |
| 1556926 289676,15 | 565845 | 8.88 | 487044 | 10.78 | 540962 | 12.37 |
| 1556927 289676,15 | 594463 | 8.88 | 504554 | 10.78 | 551908 | 12.38 |
| 1556928 289676,15 | 588433 | 8.88 | 505029 | 10.78 | 527623 | 12.38 |
| 1556929 289676,15 | 602050 | 8.88 | 510947 | 10.78 | 543198 | 12.37 |
| 1568824 290647,15 | 667951 | 8.88 | 603252 | 10.78 | 618466 | 12.38 |
| 1569376 290647,15 | 670226 | 8.88 | 598271 | 10.78 | 629294 | 12.38 |
| 2CCV398 CCV 20 ug | 682379 | 8.88 | 586200 | 10.78 | 623937 | 12.38 |
| 2CCV399 CCV A 20 | 611172 | 8.88 | 544716 | 10.78 | 567065 | 12.37 |
| 2CCV400 CCV 20 ug | 678832 | 8.88 | 581368 | 10.78 | 635245 | 12.38 |
| 2CCV401 CCV A 20 | 620714 | 8.88 | 549981 | 10.78 | 558716 | 12.38 |
| 2IB01 Instrumen | 643000 | 8.88 | 576931 | 10.78 | 602120 | 12.38 |
| 2IB02 Instrumen | 659300 | 8.88 | 587789 | 10.78 | 607975 | 12.38 |
| 2LCSDW01 290647,LC | 671620 | 8.88 | 581218 | 10.78 | 615331 | 12.38 |
| 2LCSW01 290647,LC | 682907 | 8.88 | 589402 | 10.78 | 624612 | 12.38 |
| 2MBS01 289676,MB | 557223 | 8.88 | 490158 | 10.78 | 513899 | 12.37 |
| 2MBW01 290647,MB | 707977 | 8.88 | 636416 | 10.78 | 646178 | 12.37 |

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

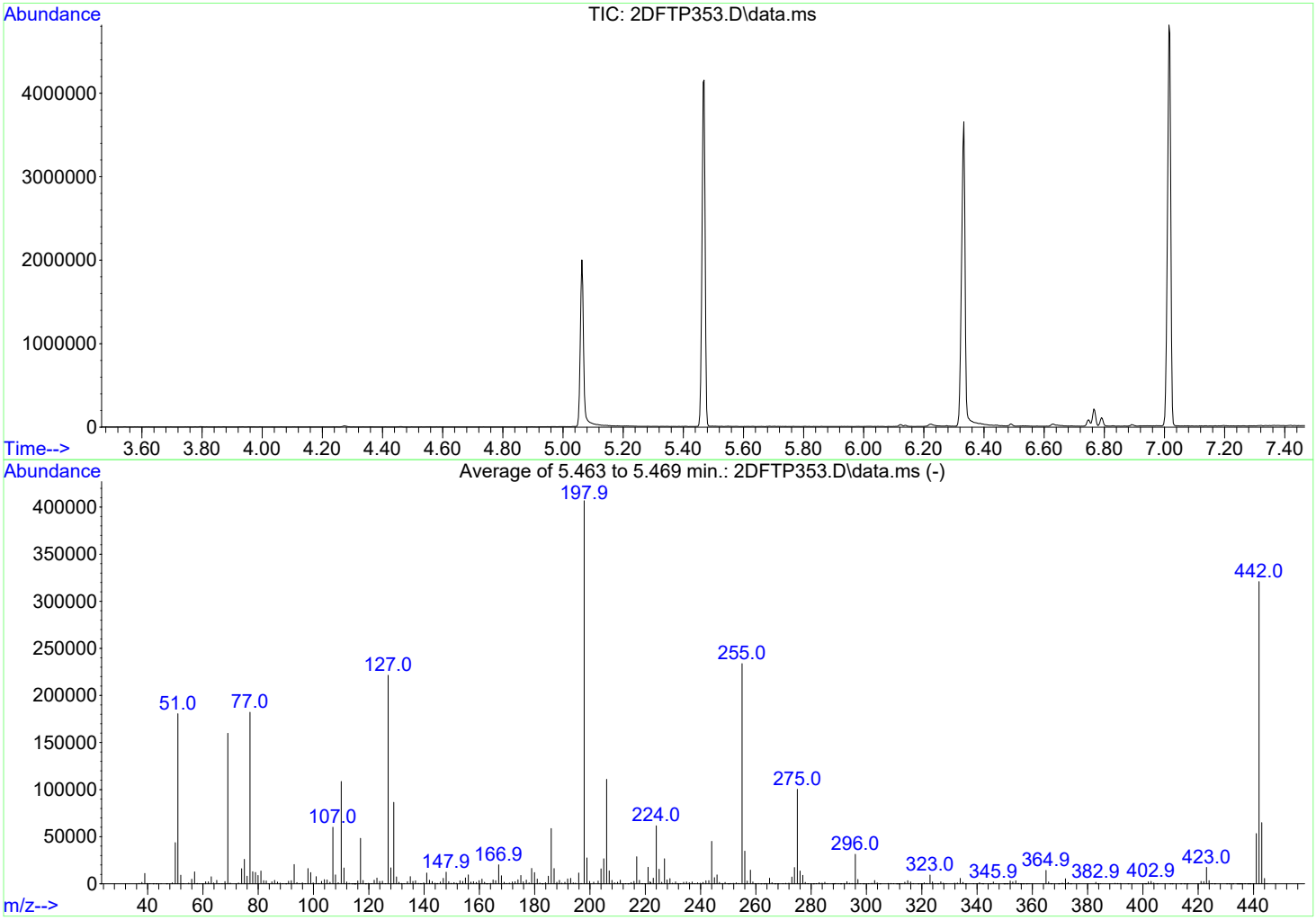
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

Data Path : C:\INSTARCH\DATA\2S040925\
Data File : 2DFTP353.D
Acq On : 9 Apr 2025 13:02
Operator : JJY
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Wed Apr 09 13:12:38 2025




AutoFind: Scans 943, 944, 945; Background Corrected with Scan 935

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 44.4 | 180665 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 2465 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 839 | PASS |
| 127 | 198 | 10 | 80 | 54.4 | 221419 | PASS |
| 197 | 198 | 0.00 | 2 | 0.1 | 469 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 406784 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 27501 | PASS |
| 275 | 198 | 10 | 60 | 24.7 | 100451 | PASS |
| 365 | 198 | 1 | 100 | 3.5 | 14191 | PASS |
| 441 | 442 | 0.01 | 24 | 16.6 | 53365 | PASS |
| 442 | 198 | 50 | 100 | 78.9 | 320896 | PASS |
| 443 | 442 | 15 | 24 | 20.2 | 64888 | PASS |

# Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S040925.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S040925\2DFTP353.D
Injection Date : 9 Apr 2025 Log Time Period (hrs) : ALL
Injection Time : 13:02 Total files within period : 15
Sample Directory : C:\INSTARCH\DATA\2S040925\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| 2CCV403 | 1.00 | 1.00 | 1.00 | CCV 20 ug/mL SVMS10298<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 13:18 |
| 2IB01 | 1.00 | 1.00 | 1.00 | Instrument Blank<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 13:41 |
| 2ICAL7 | 1.00 | 1.00 | 1.00 | ICAL 50 ug/mL SVMS10297<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 14:04 |
| 2ICAL6 | 1.00 | 1.00 | 1.00 | ICAL 40 ug/mL SVMS10296<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 14:28 |
| 2ICAL5 | 1.00 | 1.00 | 1.00 | ICAL 30 ug/mL SVMS10295<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 14:51 |
| 2ICAL4 | 1.00 | 1.00 | 1.00 | ICAL 20 ug/mL SVMS10294<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 15:14 |
| 2ICAL3 | 1.00 | 1.00 | 1.00 | ICAL 10 ug/mL SVMS10293<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 15:37 |
| 2ICAL2 | 1.00 | 1.00 | 1.00 | ICAL 5 ug/mL SVMS10292<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 16:00 |
| 2ICAL1 | 1.00 | 1.00 | 1.00 | ICAL 1 ug/mL SVMS10291<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 16:23 |
| 2ICV1 | 1.00 | 1.00 | 1.00 | ICV 20 ug/mL SVMS10288<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 16:47 |
| 2ICV2 | 1.00 | 1.00 | 1.00 | ICV 40 ug/mL SVMS10289<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 17:10 |
| 2IB02 | 1.00 | 1.00 | 1.00 | Instrument Blank<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 17:33 |
| 2SURR01 | 1.00 | 1.00 | 1.00 | 8270 Surr SVMS10299 1:5<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 17:56 |
| 1568474R | 1.00 | 1.00 | 1.00 | 290646,1568474,<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 18:19 |
| 2IB03 | 1.00 | 1.00 | 1.00 | Instrument Blank<br>500 ul + 5ul IS S5036C | 9 Apr 2025 | 18:43 |

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 183436 | 4.35 | 879740 | 6.04 | 482811 | 7.82 |
| UPPER LIMIT | 366872 | 4.85 | 1759480 | 6.54 | 965622 | 8.32 |
| LOWER LIMIT | 91718 | 3.85 | 439870 | 5.54 | 241406 | 7.32 |
| File ID Sample | | | | | | |
| 1568474R 290646,15 | 168768 | 4.35 | 813586 | 6.04 | 452456 | 7.81 |
| 2IB01 Instrumen | 175946 | 4.35 | 837302 | 6.04 | 462994 | 7.81 |
| 2IB02 Instrumen | 171378 | 4.35 | 821522 | 6.04 | 453902 | 7.81 |
| 2IB03 Instrumen | 173495 | 4.35 | 837281 | 6.04 | 463304 | 7.81 |
| 2ICAL1 ICAL 1 ug | 165992 | 4.35 | 790847 | 6.04 | 440921 | 7.81 |
| 2ICAL2 ICAL 5 ug | 188449 | 4.35 | 884272 | 6.04 | 490449 | 7.81 |
| 2ICAL3 ICAL 10 u | 178199 | 4.35 | 839853 | 6.04 | 463510 | 7.82 |
| 2ICAL4 ICAL 20 u | 183436 | 4.35 | 879740 | 6.04 | 482811 | 7.82 |
| 2ICAL5 ICAL 30 u | 172965 | 4.35 | 825482 | 6.04 | 464096 | 7.82 |
| 2ICAL6 ICAL 40 u | 185821 | 4.35 | 885672 | 6.04 | 486694 | 7.82 |
| 2ICAL7 ICAL 50 u | 178386 | 4.35 | 854631 | 6.05 | 469803 | 7.82 |
| 2ICV1 ICV 20 ug | 174447 | 4.35 | 820020 | 6.04 | 449498 | 7.82 |
| 2ICV2 ICV 40 ug | 178302 | 4.35 | 843823 | 6.04 | 463148 | 7.82 |
| 2SURR01 8270 Surr | 171988 | 4.35 | 838518 | 6.03 | 460614 | 7.81 |

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 711747 | 8.86 | 585519 | 10.76 | 610485 | 12.34 |
| UPPER LIMIT | 1423494 | 9.36 | 1171038 | 11.26 | 1220970 | 12.84 |
| LOWER LIMIT | 355874 | 8.36 | 292760 | 10.26 | 305243 | 11.84 |
| File ID Sample | | | | | | |
| 1568474R 290646,15 | 654206 | 8.86 | 597162 | 10.75 | 601286 | 12.34 |
| 2IB01 Instrumen | 668041 | 8.86 | 597085 | 10.75 | 616761 | 12.34 |
| 2IB02 Instrumen | 659581 | 8.86 | 593825 | 10.75 | 606855 | 12.34 |
| 2IB03 Instrumen | 671124 | 8.86 | 595437 | 10.75 | 584488 | 12.34 |
| 2ICAL1 ICAL 1 ug | 645904 | 8.86 | 564569 | 10.75 | 542193 | 12.34 |
| 2ICAL2 ICAL 5 ug | 716823 | 8.86 | 631494 | 10.75 | 651080 | 12.34 |
| 2ICAL3 ICAL 10 u | 677284 | 8.86 | 601593 | 10.75 | 629627 | 12.34 |
| 2ICAL4 ICAL 20 u | 711747 | 8.86 | 585519 | 10.76 | 610485 | 12.34 |
| 2ICAL5 ICAL 30 u | 674293 | 8.87 | 578602 | 10.76 | 630191 | 12.35 |
| 2ICAL6 ICAL 40 u | 700826 | 8.87 | 564279 | 10.76 | 617909 | 12.35 |
| 2ICAL7 ICAL 50 u | 687516 | 8.87 | 557015 | 10.76 | 639856 | 12.35 |
| 2ICV1 ICV 20 ug | 657140 | 8.86 | 556515 | 10.76 | 583857 | 12.34 |
| 2ICV2 ICV 40 ug | 674696 | 8.87 | 555454 | 10.76 | 613132 | 12.35 |
| 2SURR01 8270 Surr | 680358 | 8.86 | 610446 | 10.75 | 644168 | 12.34 |

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

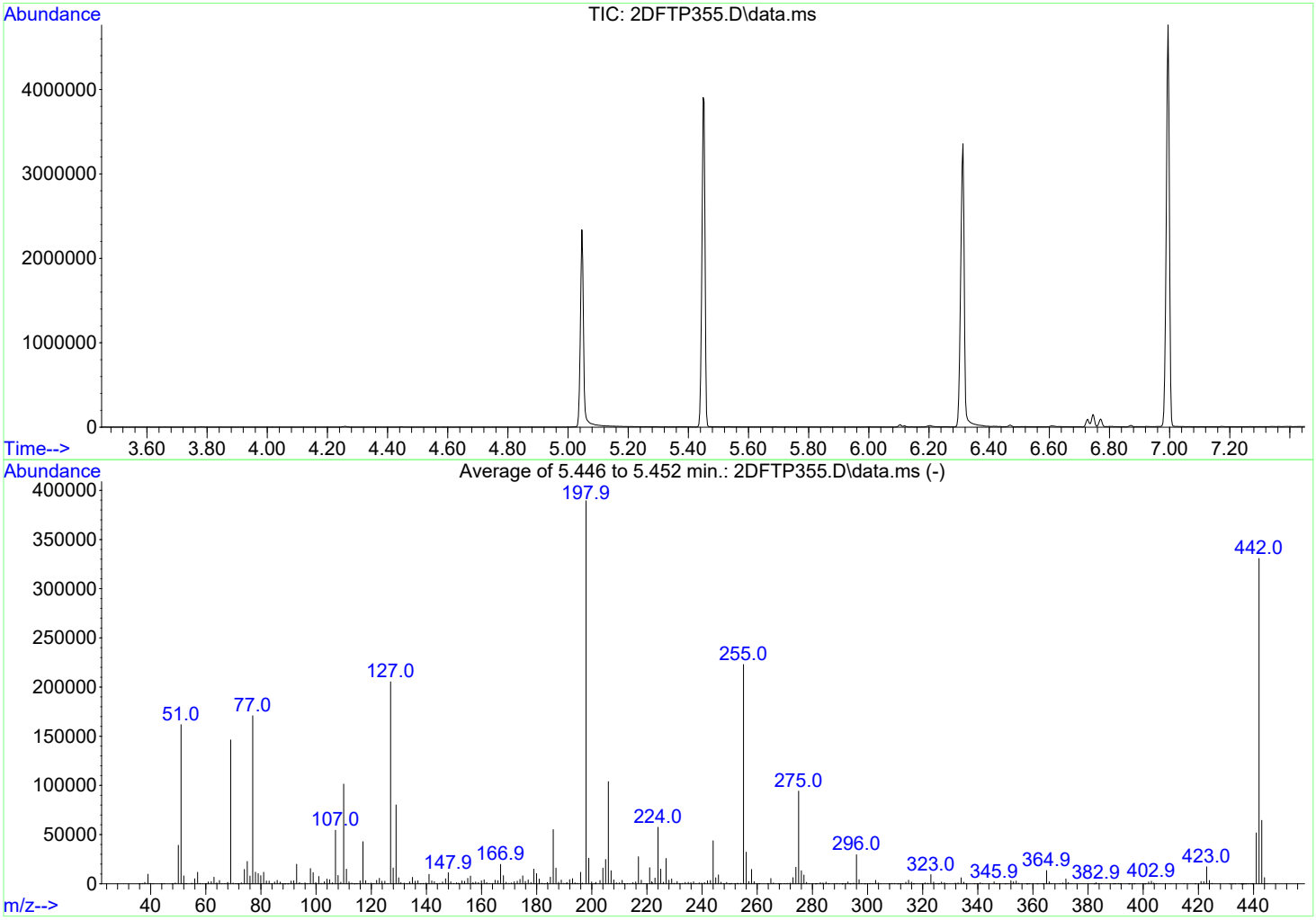
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

Data Path : C:\INSTARCH\DATA\2S041025\
Data File : 2DFTP355.D
Acq On : 10 Apr 2025 14:19
Operator : ALD
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 15 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Thu Apr 10 14:29:50 2025




AutoFind: Scans 937, 938, 939; Background Corrected with Scan 929

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 41.6 | 161835 | PASS |
| 68 | 69 | 0.00 | 2 | 1.0 | 1454 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 748 | PASS |
| 127 | 198 | 10 | 80 | 52.7 | 205355 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 389419 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 26107 | PASS |
| 275 | 198 | 10 | 60 | 24.2 | 94277 | PASS |
| 365 | 198 | 1 | 100 | 3.4 | 13430 | PASS |
| 441 | 442 | 0.01 | 24 | 15.7 | 51856 | PASS |
| 442 | 198 | 50 | 100 | 84.9 | 330731 | PASS |
| 443 | 442 | 15 | 24 | 19.5 | 64579 | PASS |

# Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S040925.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S041025\2DFTP355.D
Injection Date : 10 Apr 2025 Log Time Period (hrs) : 12
Injection Time : 14:19 Total files within period : 31
Sample Directory : C:\INSTARCH\DATA\2S041025\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| 2CCV405 | 1.00 | 1.00 | 1.00 | CCV 20 ug/mL SVMS10298 500 ul + 5ul IS S5036C | 10 Apr 2025 | 14:35 |
| 2IB03 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 10 Apr 2025 | 14:58 |
| 2LOTCK1 | 1.00 | 1.00 | 1.00 | Methylene chloride lot EK 500 ul NO IS | 10 Apr 2025 | 15:22 |
| 2LOTCK1B | 1.00 | 1.00 | 1.00 | Methylene chloride lot EK 500 ul + 5ul IS S5036C | 10 Apr 2025 | 15:45 |
| 2MBS01 | 1.00 | 1.00 | 1.00 | 290730,MBS, 1569380,500 ul + 5ul IS S | 10 Apr 2025 | 16:08 |
| 2LCSS01 | 1.00 | 1.00 | 1.00 | 290730,LCSS, 1569381,500 ul + 5ul IS S | 10 Apr 2025 | 16:32 |
| 1568821 | 1.00 | 1.00 | 1.00 | 290730,1568821, 500 ul + 5ul IS S5036C | 10 Apr 2025 | 16:55 |
| 1568839 | 1.00 | 1.00 | 1.00 | 290730,1568839, 500 ul + 5ul IS S5036C | 10 Apr 2025 | 17:18 |
| 1568828 | 1.00 | 1.00 | 1.00 | 290730,1568828, 500 ul + 5ul IS S5036C | 10 Apr 2025 | 17:41 |
| 1568828S | 1.00 | 1.00 | 1.00 | 290730,MSS1568828, 1569383,500 ul + 5ul IS S | 10 Apr 2025 | 18:05 |
| 1568828D | 1.00 | 1.00 | 1.00 | 290730,MSDS1568828, 1569384,500 ul + 5ul IS S | 10 Apr 2025 | 18:28 |
| 2IB04 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 10 Apr 2025 | 18:51 |
| 1568823 | 1.00 | 1.00 | 1.00 | 290730,1568823, 500 ul + 5ul IS S5036C | 10 Apr 2025 | 19:14 |
| 1568830 | 1.00 | 1.00 | 1.00 | 290730,1568830, 500 ul + 5ul IS S5036C | 10 Apr 2025 | 19:38 |
| 1568844 | 1.00 | 1.00 | 1.00 | 290730,1568844, 500 ul + 5ul IS S5036C | 10 Apr 2025 | 20:01 |
| 1568836 | 1.00 | 1.00 | 1.00 | 290730,1568836, 500 ul + 5ul IS S5036C | 10 Apr 2025 | 20:24 |
| 2IB05 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 10 Apr 2025 | 20:47 |
| 1568843 | 1.00 | 1.00 | 1.00 | 290730,1568843, 500 ul + 5ul IS S5036C | 10 Apr 2025 | 21:10 |
| 1568845 | 1.00 | 1.00 | 1.00 | 290730,1568845, 500 ul + 5ul IS S5036C | 10 Apr 2025 | 21:34 |
| 1568822 | 1.00 | 1.00 | 1.00 | 290730,1568822, 500 ul + 5ul IS S5036C | 10 Apr 2025 | 21:57 |
| 1568846 | 1.00 | 1.00 | 1.00 | 290730,1568846, 500 ul + 5ul IS S5036C | 10 Apr 2025 | 22:20 |
| 2IB06 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 10 Apr 2025 | 22:44 |

# Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S040925.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S041025\2DFTP355.D
Injection Date : 10 Apr 2025 Log Time Period (hrs) : 12
Injection Time : 14:19 Total files within period : 31
Sample Directory : C:\INSTARCH\DATA\2S041025\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| 1568838 | 1.00 | 1.00 | 1.00 | 290730,1568838,10<br>500 ul + 5ul IS S5036C | 10 Apr 2025 | 23:07 |
| 1568842 | 1.00 | 1.00 | 1.00 | 290730,1568842,10<br>500 ul + 5ul IS S5036C | 10 Apr 2025 | 23:30 |
| 1568841 | 1.00 | 1.00 | 1.00 | 290730,1568841,10<br>500 ul + 5ul IS S5036C | 10 Apr 2025 | 23:53 |
| 1568834 | 1.00 | 1.00 | 1.00 | 290730,1568834,10<br>500 ul + 5ul IS S5036C | 11 Apr 2025 | 00:17 |
| 1568832 | 1.00 | 1.00 | 1.00 | 290730,1568832,10<br>500 ul + 5ul IS S5036C | 11 Apr 2025 | 00:40 |
| 1568820 | 1.00 | 1.00 | 1.00 | 290730,1568820,10<br>500 ul + 5ul IS S5036C | 11 Apr 2025 | 01:03 |
| 2IB07 | 1.00 | 1.00 | 1.00 | Instrument Blank<br>500 ul + 5ul IS S5036C | 11 Apr 2025 | 01:26 |
| 2CCV406 | 1.00 | 1.00 | 1.00 | CCV 20 ug/mL SVMS10298<br>500 ul + 5ul IS S5036C | 11 Apr 2025 | 01:50 |
| 2IB08 | 1.00 | 1.00 | 1.00 | Instrument Blank<br>500 ul + 5ul IS S5036C | 11 Apr 2025 | 02:13 |

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 183436 | 4.35 | 879740 | 6.04 | 482811 | 7.82 |
| UPPER LIMIT | 366872 | 4.85 | 1759480 | 6.54 | 965622 | 8.32 |
| LOWER LIMIT | 91718 | 3.85 | 439870 | 5.54 | 241406 | 7.32 |
| File ID Sample | | | | | | |
| 1568820 290730,15 | 176409 | 4.33 | 906082 | 6.02 | 517175 | 7.80 |
| 1568821 290730,15 | 182177 | 4.33 | 886819 | 6.02 | 497372 | 7.80 |
| 1568822 290730,15 | 178459 | 4.33 | 890688 | 6.02 | 501965 | 7.80 |
| 1568823 290730,15 | 180859 | 4.33 | 880723 | 6.02 | 496364 | 7.80 |
| 1568828 290730,15 | 174103 | 4.33 | 849918 | 6.02 | 484397 | 7.80 |
| 1568828D 290730,MS | 177902 | 4.33 | 866654 | 6.02 | 486887 | 7.80 |
| 1568828S 290730,MS | 185238 | 4.33 | 905480 | 6.02 | 509397 | 7.80 |
| 1568830 290730,15 | 175950 | 4.33 | 853981 | 6.02 | 482932 | 7.79 |
| 1568832 290730,15 | 181300 | 4.33 | 917639 | 6.02 | 525070 | 7.80 |
| 1568834 290730,15 | 177055 | 4.33 | 911137 | 6.02 | 520962 | 7.80 |
| 1568836 290730,15 | 168021 | 4.33 | 833273 | 6.02 | 469661 | 7.80 |
| 1568838 290730,15 | 177019 | 4.33 | 894770 | 6.02 | 514138 | 7.80 |
| 1568839 290730,15 | 171935 | 4.33 | 847719 | 6.02 | 474775 | 7.80 |
| 1568841 290730,15 | 192152 | 4.33 | 949818 | 6.02 | 540595 | 7.80 |
| 1568842 290730,15 | 181080 | 4.33 | 903492 | 6.02 | 515155 | 7.80 |
| 1568843 290730,15 | 180876 | 4.33 | 870444 | 6.02 | 489707 | 7.80 |
| 1568844 290730,15 | 171583 | 4.33 | 851465 | 6.02 | 478940 | 7.80 |
| 1568845 290730,15 | 177410 | 4.33 | 880582 | 6.02 | 503964 | 7.80 |
| 1568846 290730,15 | 176570 | 4.33 | 858019 | 6.02 | 491026 | 7.80 |
| 2CCV405 CCV 20 ug | 181535 | 4.33 | 863181 | 6.03 | 480355 | 7.80 |
| 2CCV406 CCV 20 ug | 172890 | 4.33 | 836933 | 6.03 | 471882 | 7.80 |
| 2IB03 Instrumen | 188681 | 4.33 | 897326 | 6.02 | 498943 | 7.80 |
| 2IB04 Instrumen | 166574 | 4.33 | 812704 | 6.02 | 461694 | 7.80 |
| 2IB05 Instrumen | 163953 | 4.33 | 827314 | 6.02 | 468404 | 7.80 |
| 2IB06 Instrumen | 158489 | 4.33 | 810316 | 6.03 | 462618 | 7.80 |

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 183436 | 4.35 | 879740 | 6.04 | 482811 | 7.82 |
| UPPER LIMIT | 366872 | 4.85 | 1759480 | 6.54 | 965622 | 8.32 |
| LOWER LIMIT | 91718 | 3.85 | 439870 | 5.54 | 241406 | 7.32 |
| File ID Sample | | | | | | |
| 2IB07 Instrumen | 156787 | 4.33 | 807855 | 6.02 | 461095 | 7.80 |
| 2IB08 Instrumen | 159277 | 4.33 | 840074 | 6.02 | 479806 | 7.80 |
| 2LCSS01 290730,LC | 177686 | 4.33 | 860301 | 6.02 | 486601 | 7.80 |
| 2LOTCK1B Methylene | 170746 | 4.33 | 824637 | 6.02 | 461641 | 7.80 |
| 2MBS01 290730,MB | 183185 | 4.33 | 870447 | 6.02 | 490247 | 7.80 |

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 711747 | 8.86 | 585519 | 10.76 | 610485 | 12.34 |
| UPPER LIMIT | 1423494 | 9.36 | 1171038 | 11.26 | 1220970 | 12.84 |
| LOWER LIMIT | 355874 | 8.36 | 292760 | 10.26 | 305243 | 11.84 |
| File ID Sample | | | | | | |
| 1568820 290730,15 | 775395 | 8.85 | 615252 | 10.74 | 367123 | 12.31 |
| 1568821 290730,15 | 718094 | 8.85 | 631216 | 10.73 | 633254 | 12.30 |
| 1568822 290730,15 | 714430 | 8.86 | 533843 | 10.76 | 302020 * | 12.32 |
| 1568823 290730,15 | 720928 | 8.85 | 587151 | 10.74 | 443530 | 12.31 |
| 1568828 290730,15 | 703592 | 8.85 | 572028 | 10.74 | 511497 | 12.31 |
| 1568828D 290730,MS | 711273 | 8.85 | 572715 | 10.75 | 487264 | 12.31 |
| 1568828S 290730,MS | 740126 | 8.85 | 611518 | 10.74 | 507272 | 12.31 |
| 1568830 290730,15 | 683516 | 8.85 | 570630 | 10.73 | 381613 | 12.31 |
| 1568832 290730,15 | 769003 | 8.85 | 600991 | 10.74 | 339414 | 12.31 |
| 1568834 290730,15 | 773971 | 8.85 | 603777 | 10.74 | 338646 | 12.31 |
| 1568836 290730,15 | 691502 | 8.85 | 534740 | 10.75 | 370654 | 12.31 |
| 1568838 290730,15 | 755507 | 8.85 | 587084 | 10.74 | 320936 | 12.31 |
| 1568839 290730,15 | 694336 | 8.85 | 589595 | 10.74 | 562541 | 12.31 |
| 1568841 290730,15 | 797446 | 8.85 | 621542 | 10.75 | 371772 | 12.31 |
| 1568842 290730,15 | 772870 | 8.85 | 605575 | 10.74 | 369453 | 12.31 |
| 1568843 290730,15 | 719305 | 8.85 | 570220 | 10.74 | 355809 | 12.31 |
| 1568844 290730,15 | 706092 | 8.85 | 558544 | 10.75 | 356927 | 12.31 |
| 1568845 290730,15 | 723230 | 8.85 | 577977 | 10.74 | 344972 | 12.31 |
| 1568846 290730,15 | 700015 | 8.85 | 535941 | 10.73 | 246002 * | 12.31 |
| 2CCV405 CCV 20 ug | 695827 | 8.85 | 598215 | 10.73 | 619102 | 12.30 |
| 2CCV406 CCV 20 ug | 696725 | 8.85 | 565175 | 10.73 | 354197 | 12.30 |
| 2IB03 Instrumen | 735932 | 8.85 | 648911 | 10.73 | 636126 | 12.30 |
| 2IB04 Instrumen | 679432 | 8.85 | 618530 | 10.73 | 541795 | 12.30 |
| 2IB05 Instrumen | 695119 | 8.85 | 611879 | 10.73 | 436124 | 12.30 |
| 2IB06 Instrumen | 688488 | 8.85 | 580181 | 10.73 | 340787 | 12.29 |

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 711747 | 8.86 | 585519 | 10.76 | 610485 | 12.34 |
| UPPER LIMIT | 1423494 | 9.36 | 1171038 | 11.26 | 1220970 | 12.84 |
| LOWER LIMIT | 355874 | 8.36 | 292760 | 10.26 | 305243 | 11.84 |
| File ID Sample | | | | | | |
| 2IB07 Instrumen | 695922 | 8.85 | 594632 | 10.73 | 323695 | 12.30 |
| 2IB08 Instrumen | 722057 | 8.85 | 606996 | 10.73 | 374712 | 12.30 |
| 2LCSS01 290730,LC | 717670 | 8.85 | 611448 | 10.73 | 628525 | 12.30 |
| 2LOTCK1B Methylene | 676248 | 8.85 | 592603 | 10.73 | 577649 | 12.30 |
| 2MBS01 290730,MB | 716162 | 8.85 | 629004 | 10.73 | 624526 | 12.29 |

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

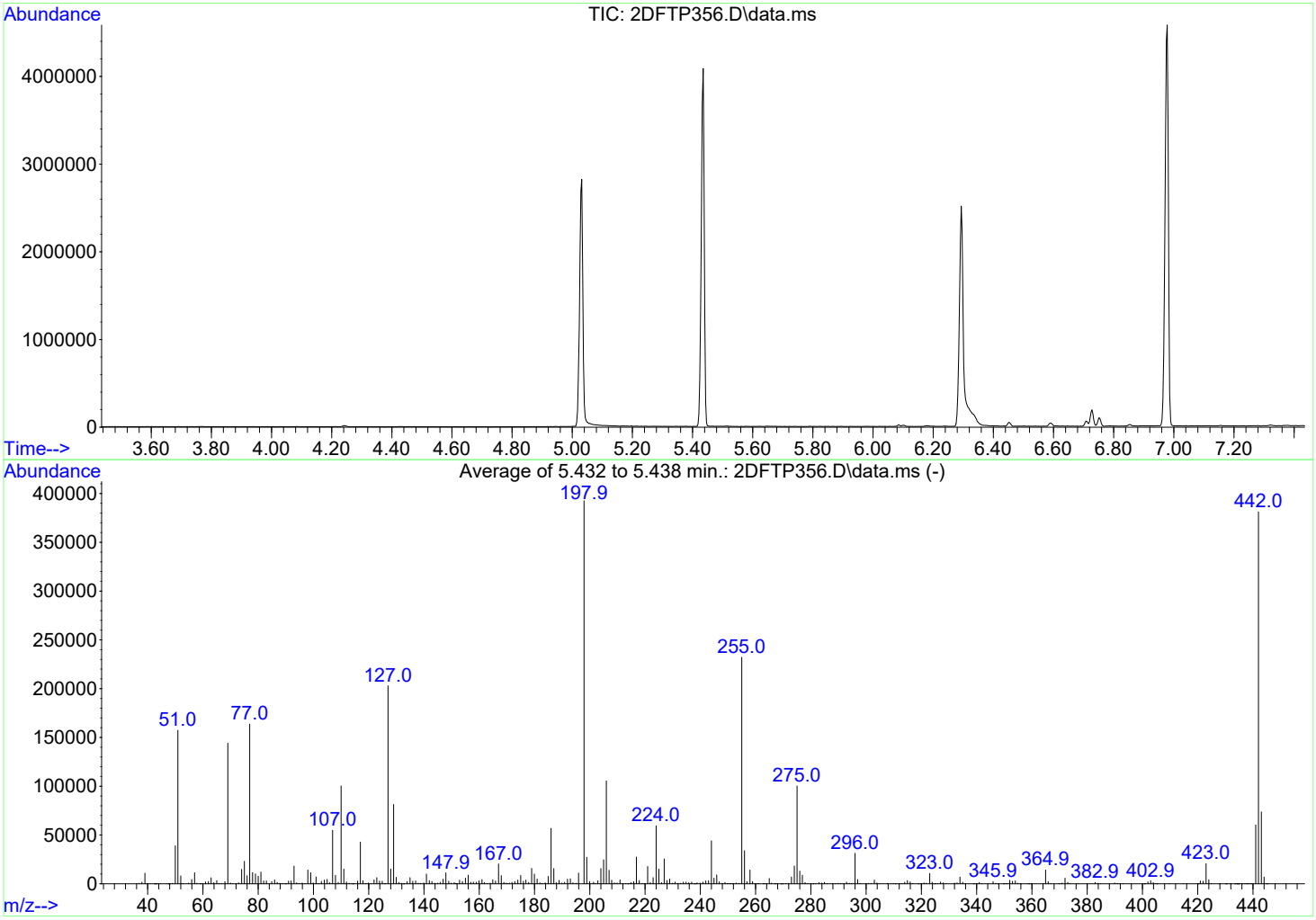
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

Data Path : C:\INSTARCH\DATA\2S041125\
Data File : 2DFTP356.D
Acq On : 11 Apr 2025 11:11
Operator : JJY
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Fri Apr 11 11:23:03 2025




AutoFind: Scans 932, 933, 934; Background Corrected with Scan 923

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 40.1 | 157379 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 2209 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 903 | PASS |
| 127 | 198 | 10 | 80 | 51.7 | 202987 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 392619 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 27171 | PASS |
| 275 | 198 | 10 | 60 | 25.5 | 100272 | PASS |
| 365 | 198 | 1 | 100 | 3.6 | 14239 | PASS |
| 441 | 442 | 0.01 | 24 | 15.8 | 60379 | PASS |
| 442 | 198 | 50 | 100 | 97.1 | 381205 | PASS |
| 443 | 442 | 15 | 24 | 19.4 | 73795 | PASS |

# Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S040925.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S041125\2DFTP356.D
Injection Date : 11 Apr 2025 Log Time Period (hrs) : 12
Injection Time : 11:11 Total files within period : 26
Sample Directory : C:\INSTARCH\DATA\2S041125\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| 2CCV407 | 1.00 | 1.00 | 1.00 | CCV 20 ug/mL SVMS10298 500 ul + 5ul IS S5036C | 11 Apr 2025 | 11:27 |
| 2IB01 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 11 Apr 2025 | 11:50 |
| 1568839D | 1.00 | 1.00 | 1.00 | 290730,1568839,2 500 ul + 5ul IS S5036C | 11 Apr 2025 | 12:13 |
| 1568828X | 1.00 | 1.00 | 1.00 | 290730,1568828,5 500 ul + 5ul IS S5036C | 11 Apr 2025 | 12:36 |
| 1568828Y | 1.00 | 1.00 | 1.00 | 290730,MSS1568828,5 1569383,500 ul + 5ul IS S | 11 Apr 2025 | 12:59 |
| 1568828Z | 1.00 | 1.00 | 1.00 | 290730,MSDS1568828,5 1569384,500 ul + 5ul IS S | 11 Apr 2025 | 13:22 |
| 2IB02 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 11 Apr 2025 | 13:45 |
| 1568823D | 1.00 | 1.00 | 1.00 | 290730,1568823,2 500 ul + 5ul IS S5036C | 11 Apr 2025 | 14:09 |
| 1568844D | 1.00 | 1.00 | 1.00 | 290730,1568844,5 500 ul + 5ul IS S5036C | 11 Apr 2025 | 14:32 |
| 1568836D | 1.00 | 1.00 | 1.00 | 290730,1568836,5 500 ul + 5ul IS S5036C | 11 Apr 2025 | 14:55 |
| 1568843D | 1.00 | 1.00 | 1.00 | 290730,1568843,5 500 ul + 5ul IS S5036C | 11 Apr 2025 | 15:18 |
| 2IB03 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 11 Apr 2025 | 15:41 |
| 1568845D | 1.00 | 1.00 | 1.00 | 290730,1568845,2 500 ul + 5ul IS S5036C | 11 Apr 2025 | 16:04 |
| 1568822D | 1.00 | 1.00 | 1.00 | 290730,1568822,10 500 ul + 5ul IS S5036C | 11 Apr 2025 | 16:28 |
| 1568846D | 1.00 | 1.00 | 1.00 | 290730,1568846,5 500 ul + 5ul IS S5036C | 11 Apr 2025 | 16:51 |
| 1568838D | 1.00 | 1.00 | 1.00 | 290730,1568838,20 500 ul + 5ul IS S5036C | 11 Apr 2025 | 17:14 |
| 2IB04 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 11 Apr 2025 | 17:37 |
| 1568842D | 1.00 | 1.00 | 1.00 | 290730,1568842,50 500 ul + 5ul IS S5036C | 11 Apr 2025 | 18:00 |
| 1568841D | 1.00 | 1.00 | 1.00 | 290730,1568841,50 500 ul + 5ul IS S5036C | 11 Apr 2025 | 18:23 |
| 1568834D | 1.00 | 1.00 | 1.00 | 290730,1568834,50 500 ul + 5ul IS S5036C | 11 Apr 2025 | 18:46 |
| 1568832D | 1.00 | 1.00 | 1.00 | 290730,1568832,50 500 ul + 5ul IS S5036C | 11 Apr 2025 | 19:09 |
| 1568820D | 1.00 | 1.00 | 1.00 | 290730,1568820,50 500 ul + 5ul IS S5036C | 11 Apr 2025 | 19:33 |

# Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S040925.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S041125\2DFTP356.D
Injection Date : 11 Apr 2025 Log Time Period (hrs) : 12
Injection Time : 11:11 Total files within period : 26
Sample Directory : C:\INSTARCH\DATA\2S041125\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| 1568838R | 1.00 | 1.00 | 1.00 | 290730,1568838,50<br>500 ul + 5ul IS S5036C | 11 Apr 2025 | 19:56 |
| 2IB05 | 1.00 | 1.00 | 1.00 | Instrument Blank<br>500 ul + 5ul IS S5036C | 11 Apr 2025 | 20:19 |
| 2CCV408 | 1.00 | 1.00 | 1.00 | CCV 20 ug/mL SVMS10298<br>500 ul + 5ul IS S5036C | 11 Apr 2025 | 20:43 |
| 2IB06 | 1.00 | 1.00 | 1.00 | Instrument Blank<br>500 ul + 5ul IS S5036C | 11 Apr 2025 | 21:06 |

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 183436 | 4.35 | 879740 | 6.04 | 482811 | 7.82 |
| UPPER LIMIT | 366872 | 4.85 | 1759480 | 6.54 | 965622 | 8.32 |
| LOWER LIMIT | 91718 | 3.85 | 439870 | 5.54 | 241406 | 7.32 |
| File ID Sample | | | | | | |
| 1568820D 290730,15 | 156256 | 4.31 | 757692 | 6.00 | 425333 | 7.78 |
| 1568822D 290730,15 | 152209 | 4.31 | 738289 | 6.00 | 407390 | 7.78 |
| 1568823D 290730,15 | 162932 | 4.31 | 791246 | 6.00 | 439263 | 7.78 |
| 1568828X 290730,15 | 157478 | 4.31 | 743168 | 6.00 | 412684 | 7.78 |
| 1568828Y 290730,MS | 154055 | 4.31 | 718661 | 6.00 | 403539 | 7.78 |
| 1568828Z 290730,MS | 146925 | 4.31 | 703026 | 6.00 | 387267 | 7.78 |
| 1568832D 290730,15 | 154397 | 4.31 | 758542 | 6.00 | 427651 | 7.78 |
| 1568834D 290730,15 | 158978 | 4.31 | 768100 | 6.00 | 429509 | 7.78 |
| 1568836D 290730,15 | 152996 | 4.31 | 731711 | 6.00 | 412366 | 7.78 |
| 1568838D 290730,15 | 161591 | 4.31 | 798916 | 6.00 | 448432 | 7.78 |
| 1568838R 290730,15 | 152337 | 4.31 | 749669 | 6.00 | 417344 | 7.78 |
| 1568839D 290730,15 | 158877 | 4.31 | 748351 | 6.00 | 419277 | 7.78 |
| 1568841D 290730,15 | 159185 | 4.31 | 770270 | 6.00 | 428599 | 7.78 |
| 1568842D 290730,15 | 158996 | 4.31 | 771175 | 6.00 | 428115 | 7.78 |
| 1568843D 290730,15 | 157712 | 4.31 | 753105 | 6.00 | 416351 | 7.78 |
| 1568844D 290730,15 | 151338 | 4.31 | 719568 | 6.00 | 400096 | 7.78 |
| 1568845D 290730,15 | 160181 | 4.31 | 772723 | 6.00 | 434574 | 7.78 |
| 1568846D 290730,15 | 151810 | 4.31 | 730765 | 6.00 | 411650 | 7.78 |
| 2CCV407 CCV 20 ug | 173954 | 4.31 | 815260 | 6.00 | 458893 | 7.78 |
| 2CCV408 CCV 20 ug | 173545 | 4.31 | 834135 | 6.01 | 468028 | 7.78 |
| 2IB01 Instrumen | 178592 | 4.31 | 858005 | 6.00 | 485568 | 7.78 |
| 2IB02 Instrumen | 174497 | 4.31 | 851784 | 6.00 | 476845 | 7.78 |
| 2IB03 Instrumen | 167214 | 4.31 | 834821 | 6.00 | 475024 | 7.78 |
| 2IB04 Instrumen | 170031 | 4.31 | 863950 | 6.00 | 491048 | 7.78 |
| 2IB05 Instrumen | 164746 | 4.31 | 830807 | 6.00 | 474450 | 7.78 |

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 183436 | 4.35 | 879740 | 6.04 | 482811 | 7.82 |
| UPPER LIMIT | 366872 | 4.85 | 1759480 | 6.54 | 965622 | 8.32 |
| LOWER LIMIT | 91718 | 3.85 | 439870 | 5.54 | 241406 | 7.32 |
| File ID Sample | | | | | | |
| 2IB06 Instrumen | 181624 | 4.31 | 890424 | 6.00 | 498192 | 7.78 |

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 711747 | 8.86 | 585519 | 10.76 | 610485 | 12.34 |
| UPPER LIMIT | 1423494 | 9.36 | 1171038 | 11.26 | 1220970 | 12.84 |
| LOWER LIMIT | 355874 | 8.36 | 292760 | 10.26 | 305243 | 11.84 |
| File ID Sample | | | | | | |
| 1568820D 290730,15 | 631434 | 8.84 | 572943 | 10.71 | 559761 | 12.27 |
| 1568822D 290730,15 | 600866 | 8.84 | 524443 | 10.71 | 498514 | 12.27 |
| 1568823D 290730,15 | 636618 | 8.84 | 564783 | 10.71 | 547762 | 12.28 |
| 1568828X 290730,15 | 613730 | 8.84 | 540531 | 10.71 | 541020 | 12.27 |
| 1568828Y 290730,MS | 589744 | 8.83 | 530522 | 10.71 | 555179 | 12.27 |
| 1568828Z 290730,MS | 575425 | 8.83 | 506973 | 10.71 | 540224 | 12.27 |
| 1568832D 290730,15 | 632981 | 8.84 | 563309 | 10.71 | 532642 | 12.27 |
| 1568834D 290730,15 | 631197 | 8.84 | 562185 | 10.71 | 521663 | 12.27 |
| 1568836D 290730,15 | 607120 | 8.84 | 522968 | 10.71 | 492622 | 12.27 |
| 1568838D 290730,15 | 663018 | 8.84 | 587908 | 10.72 | 592414 | 12.28 |
| 1568838R 290730,15 | 624392 | 8.84 | 553244 | 10.71 | 525687 | 12.27 |
| 1568839D 290730,15 | 618330 | 8.84 | 531861 | 10.71 | 535512 | 12.27 |
| 1568841D 290730,15 | 634501 | 8.84 | 548174 | 10.71 | 494832 | 12.27 |
| 1568842D 290730,15 | 632840 | 8.84 | 556665 | 10.71 | 536415 | 12.27 |
| 1568843D 290730,15 | 619620 | 8.84 | 543012 | 10.71 | 530975 | 12.27 |
| 1568844D 290730,15 | 596075 | 8.84 | 529146 | 10.71 | 547426 | 12.27 |
| 1568845D 290730,15 | 626196 | 8.84 | 561945 | 10.71 | 522844 | 12.27 |
| 1568846D 290730,15 | 591822 | 8.84 | 509092 | 10.71 | 460035 | 12.27 |
| 2CCV407 CCV 20 ug | 676448 | 8.84 | 576084 | 10.71 | 586930 | 12.27 |
| 2CCV408 CCV 20 ug | 695275 | 8.84 | 607866 | 10.71 | 591353 | 12.27 |
| 2IB01 Instrumen | 709498 | 8.83 | 626454 | 10.71 | 584473 | 12.27 |
| 2IB02 Instrumen | 720663 | 8.83 | 650524 | 10.71 | 651998 | 12.27 |
| 2IB03 Instrumen | 710660 | 8.84 | 625220 | 10.71 | 573967 | 12.27 |
| 2IB04 Instrumen | 732549 | 8.84 | 657181 | 10.71 | 595535 | 12.27 |
| 2IB05 Instrumen | 711094 | 8.84 | 653808 | 10.71 | 615162 | 12.27 |

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 711747 | 8.86 | 585519 | 10.76 | 610485 | 12.34 |
| UPPER LIMIT | 1423494 | 9.36 | 1171038 | 11.26 | 1220970 | 12.84 |
| LOWER LIMIT | 355874 | 8.36 | 292760 | 10.26 | 305243 | 11.84 |
| File ID Sample | | | | | | |
| 2IB06 Instrumen | 753384 | 8.84 | 676847 | 10.71 | 634945 | 12.27 |

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

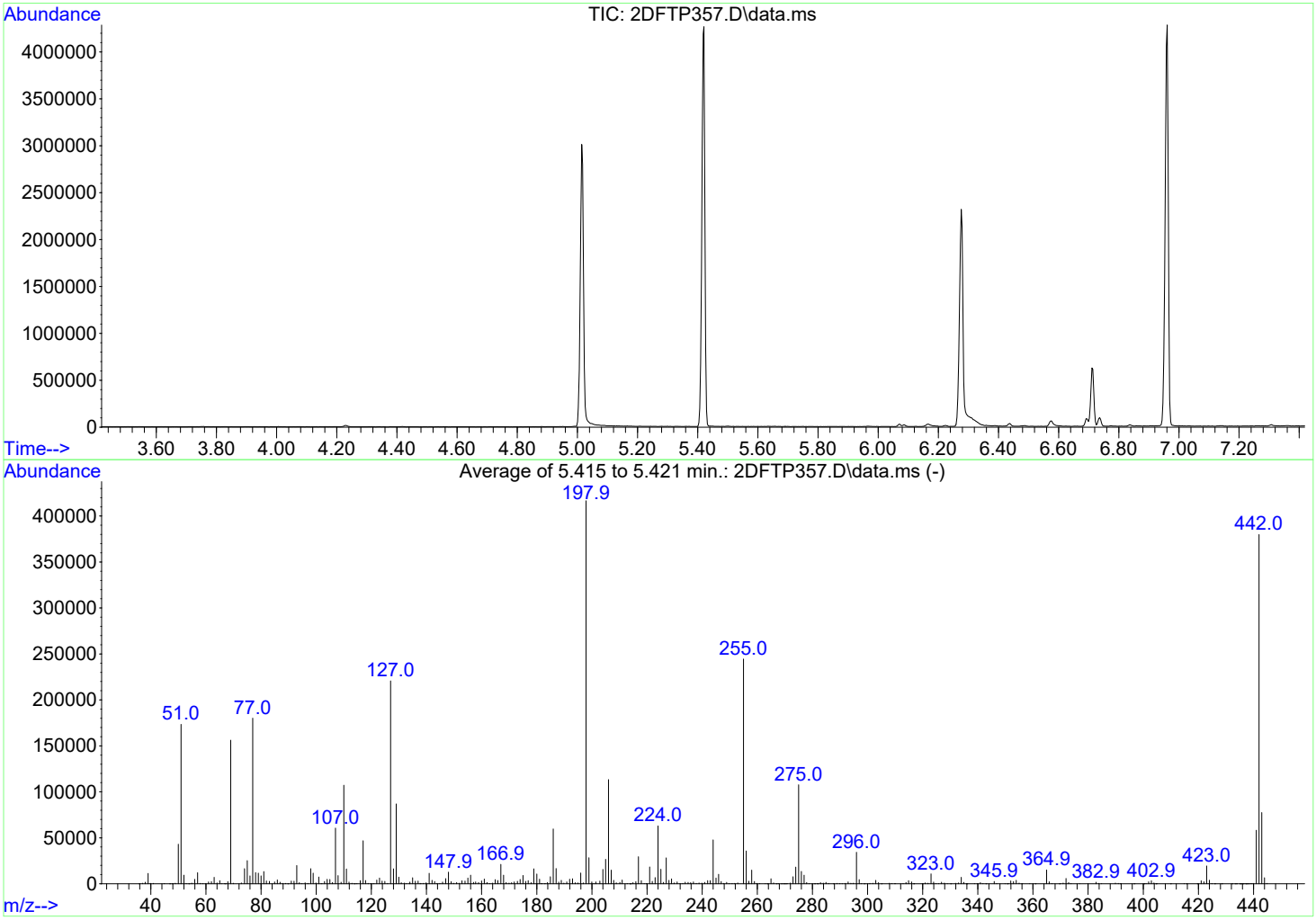
AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

Data Path : C:\INSTARCH\DATA\2S041425\
Data File : 2DFTP357.D
Acq On : 14 Apr 2025 10:44
Operator : JJY
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Mon Apr 14 10:54:47 2025




AutoFind: Scans 926, 927, 928; Background Corrected with Scan 917

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 41.6 | 173485 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 2419 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 676 | PASS |
| 127 | 198 | 10 | 80 | 53.0 | 220629 | PASS |
| 197 | 198 | 0.00 | 2 | 0.2 | 924 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 416640 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 28333 | PASS |
| 275 | 198 | 10 | 60 | 25.8 | 107616 | PASS |
| 365 | 198 | 1 | 100 | 3.6 | 15108 | PASS |
| 441 | 442 | 0.01 | 24 | 15.3 | 58309 | PASS |
| 442 | 198 | 50 | 100 | 91.2 | 379925 | PASS |
| 443 | 442 | 15 | 24 | 20.4 | 77451 | PASS |

# Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2S040925.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S041425\2DFTP357.D
Injection Date : 14 Apr 2025 Log Time Period (hrs) : 12
Injection Time : 10:44 Total files within period : 13
Sample Directory : C:\INSTARCH\DATA\2S041425\

Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| 2CCV409 | 1.00 | 1.00 | 1.00 | CCV 20 ug/mL SVMS10298 500 ul + 5ul IS S5036C | 14 Apr 2025 | 11:00 |
| 2IB01 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 14 Apr 2025 | 11:23 |
| 2MBS01 | 1.00 | 1.00 | 1.00 | 290787,MBS, 1570402,500 ul + 5ul IS S | 14 Apr 2025 | 11:46 |
| 2LCSS01 | 1.00 | 1.00 | 1.00 | 290787,LCSS, 1570403,500 ul + 5ul IS S | 14 Apr 2025 | 12:26 |
| 1569987 | 1.00 | 1.00 | 1.00 | 290787,1569987, 500 ul + 5ul IS S5036C | 14 Apr 2025 | 12:49 |
| 1569983 | 1.00 | 1.00 | 1.00 | 290787,1569983, 500 ul + 5ul IS S5036C | 14 Apr 2025 | 13:12 |
| 1569983S | 1.00 | 1.00 | 1.00 | 290787,MSS1569983, 1570405,500 ul + 5ul IS S | 14 Apr 2025 | 13:35 |
| 1569983D | 1.00 | 1.00 | 1.00 | 290787,MSDS1569983, 1570406,500 ul + 5ul IS S | 14 Apr 2025 | 13:59 |
| 2IB02 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 14 Apr 2025 | 14:22 |
| 1568841R | 1.00 | 1.00 | 1.00 | 290730,1568841,100 500 ul + 5ul IS S5036C | 14 Apr 2025 | 14:45 |
| 2IB03 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 14 Apr 2025 | 15:09 |
| 2CCV410 | 1.00 | 1.00 | 1.00 | CCV 20 ug/mL SVMS10298 500 ul + 5ul IS S5036C | 14 Apr 2025 | 15:32 |
| 2IB04 | 1.00 | 1.00 | 1.00 | Instrument Blank 500 ul + 5ul IS S5036C | 14 Apr 2025 | 15:55 |

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS1 (DCB) | | IS2 (NPT) | | IS3 (ANT) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 183436 | 4.35 | 879740 | 6.04 | 482811 | 7.82 |
| UPPER LIMIT | 366872 | 4.85 | 1759480 | 6.54 | 965622 | 8.32 |
| LOWER LIMIT | 91718 | 3.85 | 439870 | 5.54 | 241406 | 7.32 |
| File ID Sample | | | | | | |
| 1568841R 290730,15 | 172991 | 4.30 | 834564 | 5.98 | 459638 | 7.77 |
| 1569983 290787,15 | 159023 | 4.29 | 751571 | 5.98 | 408782 | 7.76 |
| 1569983D 290787,MS | 162462 | 4.29 | 752627 | 5.98 | 410257 | 7.77 |
| 1569983S 290787,MS | 164607 | 4.29 | 762165 | 5.98 | 421205 | 7.76 |
| 1569987 290787,15 | 165140 | 4.29 | 774337 | 5.98 | 419563 | 7.76 |
| 2CCV409 CCV 20 ug | 175703 | 4.30 | 835226 | 5.99 | 469741 | 7.77 |
| 2CCV410 CCV 20 ug | 181611 | 4.30 | 863853 | 5.99 | 497228 | 7.77 |
| 2IB01 Instrumen | 160509 | 4.30 | 755141 | 5.98 | 416107 | 7.76 |
| 2IB02 Instrumen | 148694 | 4.30 | 710355 | 5.98 | 392847 | 7.77 |
| 2IB03 Instrumen | 173971 | 4.30 | 862600 | 5.98 | 488608 | 7.77 |
| 2IB04 Instrumen | 179545 | 4.30 | 872617 | 5.99 | 485684 | 7.77 |
| 2LCSS01 290787,LC | 169649 | 4.29 | 774762 | 5.98 | 425282 | 7.77 |
| 2MBS01 290787,MB | 166325 | 4.29 | 772937 | 5.98 | 422661 | 7.76 |

IS1 (DCB) = 14Diclbenzd4
IS2 (NPT) = Naphthalened8
IS3 (ANT) = Acenaphthened10

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Contract :
Project : Site : Location : Group :
Lab File ID (Standard): 2ICAL4.D Date Analyzed : 9 Apr 2025
Instrument ID : SVMS2 Time Analyzed : 15:14
GC Column : ID : (mm) Heated Purge (Y:N) :

| | IS4 (PHN) | | IS5 (CRY) | | IS6 (PRY) | |
|---|---|---|---|---|---|---|
| | Area # | RT # | Area # | RT # | Area # | RT # |
| ICAL MID PT | 711747 | 8.86 | 585519 | 10.76 | 610485 | 12.34 |
| UPPER LIMIT | 1423494 | 9.36 | 1171038 | 11.26 | 1220970 | 12.84 |
| LOWER LIMIT | 355874 | 8.36 | 292760 | 10.26 | 305243 | 11.84 |
| File ID Sample | | | | | | |
| 1568841R 290730,15 | 679118 | 8.82 | 623956 | 10.69 | 548486 | 12.25 |
| 1569983 290787,15 | 590775 | 8.82 | 544265 | 10.69 | 467691 | 12.24 |
| 1569983D 290787,MS | 597577 | 8.82 | 522585 | 10.69 | 415416 | 12.24 |
| 1569983S 290787,MS | 608544 | 8.82 | 538462 | 10.70 | 438314 | 12.25 |
| 1569987 290787,15 | 611883 | 8.82 | 546805 | 10.69 | 461211 | 12.24 |
| 2CCV409 CCV 20 ug | 688073 | 8.82 | 600600 | 10.69 | 557810 | 12.24 |
| 2CCV410 CCV 20 ug | 729337 | 8.82 | 636265 | 10.70 | 545282 | 12.25 |
| 2IB01 Instrumen | 625115 | 8.82 | 551567 | 10.69 | 463082 | 12.24 |
| 2IB02 Instrumen | 586704 | 8.82 | 533124 | 10.69 | 405518 | 12.24 |
| 2IB03 Instrumen | 735449 | 8.82 | 684564 | 10.69 | 550831 | 12.24 |
| 2IB04 Instrumen | 726147 | 8.82 | 690350 | 10.69 | 548723 | 12.24 |
| 2LCSS01 290787,LC | 622856 | 8.82 | 563584 | 10.69 | 530243 | 12.25 |
| 2MBS01 290787,MB | 631363 | 8.82 | 565048 | 10.69 | 494888 | 12.24 |

IS4 (PHN) = Phenanthrd10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area
AREA LOWER LIMIT = 50% of internal standard area
RT UPPER LIMIT = 0.5 minutes of internal standard RT
RT LOWER LIMIT = -0.5 minutes of internal standard RT

# Column to be used to flag values outside QC limit with an asterisk
* Values outside of contract required QC limits

# SEMI - VOLATILE ORGANIC ANALYSIS
# SAMPLE DATA
# DOCUMENTS

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\1568824.D Vial: 14
Acq On : 8 Apr 2025 14:44 Operator: JJY
Sample : 290647,1568824, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 15:00:39 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

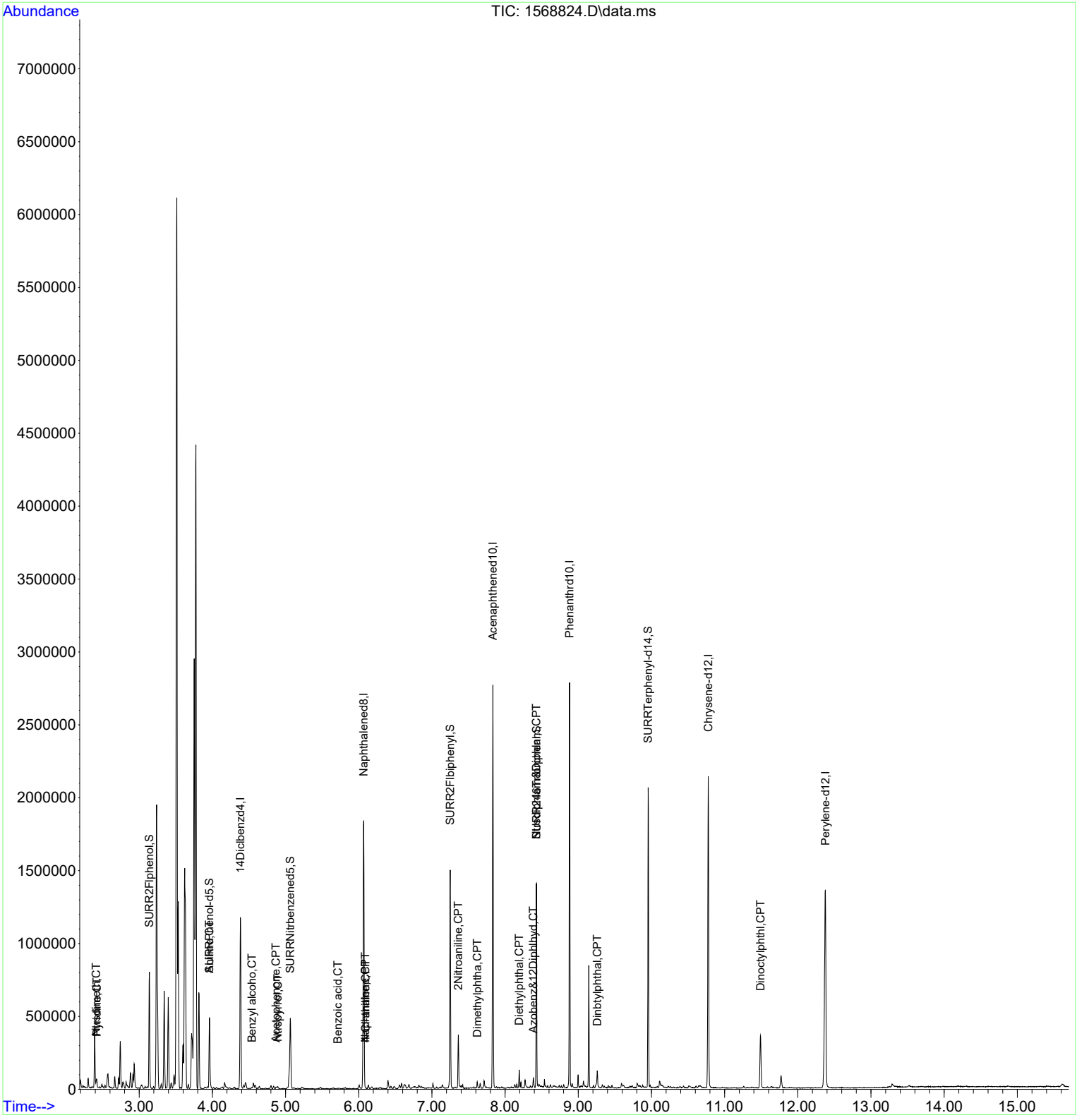
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.383 | 152 | 168890 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.068 | 136 | 833114 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.833 | 164 | 465485 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.881 | 188 | 667951 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.776 | 240 | 603252 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.376 | 264 | 618466 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.139 | 112 | 162393 | 39.08 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 39.08% | | | |
| 7) SURRPhenol-d5 | 3.960 | 99 | 128387 | 25.79 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 25.79% | | | |
| 22) SURRNitrbenzened5 | 5.065 | 82 | 149646 | 66.44 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 66.44% | | | |
| 44) SURR2Flbiphenyl | 7.250 | 172 | 364162 | 65.95 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 65.95% | | | |
| 62) SURR246Tribrphenl | 8.429 | 330 | 95432 | 79.68 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 79.68% | | | |
| 78) SURRTerphenyl-d14 | 9.955 | 244 | 457271 | 77.90 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 77.90% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.411 | 74 | 269 | 0.0402 | ug/mL# | 16 |
| 3) Pyridine | 2.423 | 79 | 1083 | 0.0914 | ug/mL# | 3 |
| 5) Aniline | 3.960 | 93 | 745 | 0.0471 | ug/mL# | 1 |
| 13) Benzyl alcoho | 4.539 | 108 | 671 | 0.0911 | ug/mL | 83 |
| 16) Ntrspyrrol | 4.895 | 100 | 616 | 0.1114 | ug/mL# | 59 |
| 17) Acetophenone | 4.869 | 105 | 2368 | 0.1500 | ug/mL | 75 |
| 30) Benzoic acid | 5.716 | 122 | 1145 | 3.3999 | ug/mL# | 79 |
| 31) Naphthalene | 6.091 | 128 | 2233 | 0.0579 | ug/mL | 84 |
| 32) 4-Cl-aniline | 6.094 | 127 | 243 | 0.0166 | ug/mL | 54 |
| 46) 2Nitroaniline | 7.361 | 65 | 4883 | 0.9633 | ug/mL# | 8 |
| 48) Dimethylphtha | 7.620 | 163 | 12084 | 0.4433 | ug/mL | 96 |
| 60) Diethylphthal | 8.194 | 149 | 24263 | 0.9015 | ug/mL | 99 |
| 65) Ntrsdiphlam&Diphlam | 8.427 | 169 | 3895 | 0.1643 | ug/mL# | 36 |
| 66) Azobenz&12Diphlhyd | 8.387 | 182 | 5532 | 0.7833 | ug/mL# | 1 |
| 73) Dinbtylphthal | 9.259 | 149 | 35537 | 0.8904 | ug/mL | 99 |
| 85) Dinoctylphthl | 11.490 | 149 | 37148 | 1.1130 | ug/mL# | 42 |

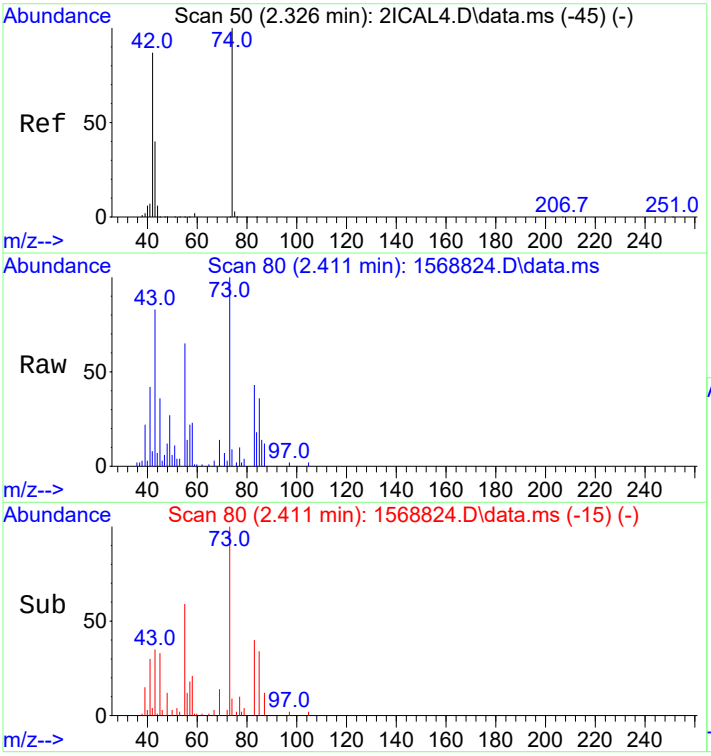
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\1568824.D Vial: 14
Acq On : 8 Apr 2025 14:44 Operator: JJY
Sample : 290647,1568824, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 15:00:39 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

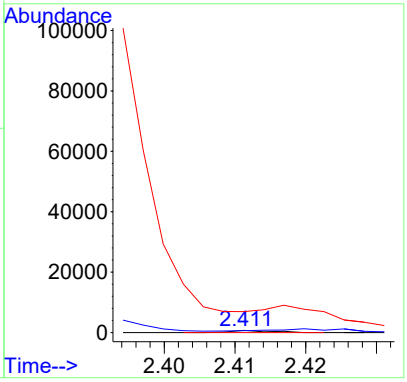


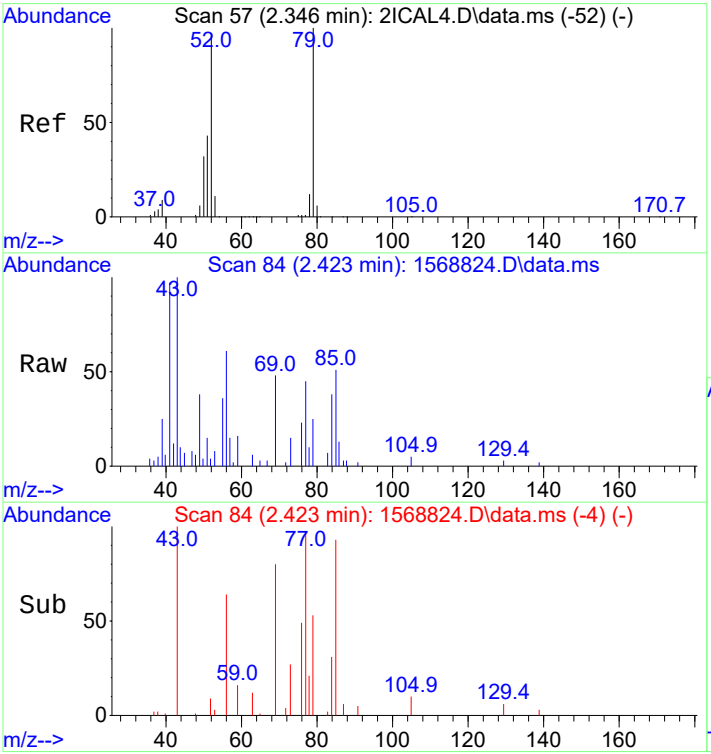



#2
Ntrsdimeth
Concen: 0.04 ug/mL
RT: 2.411 min Scan# 80
Delta R.T. 0.085 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion: 74 Resp: 269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 1.1 | 57.1 | 117.1# |
| 43 | 0.0 | 9.5 | 69.5# |

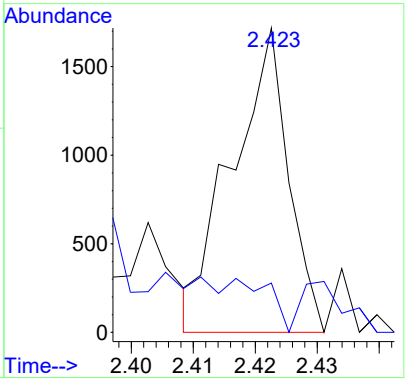


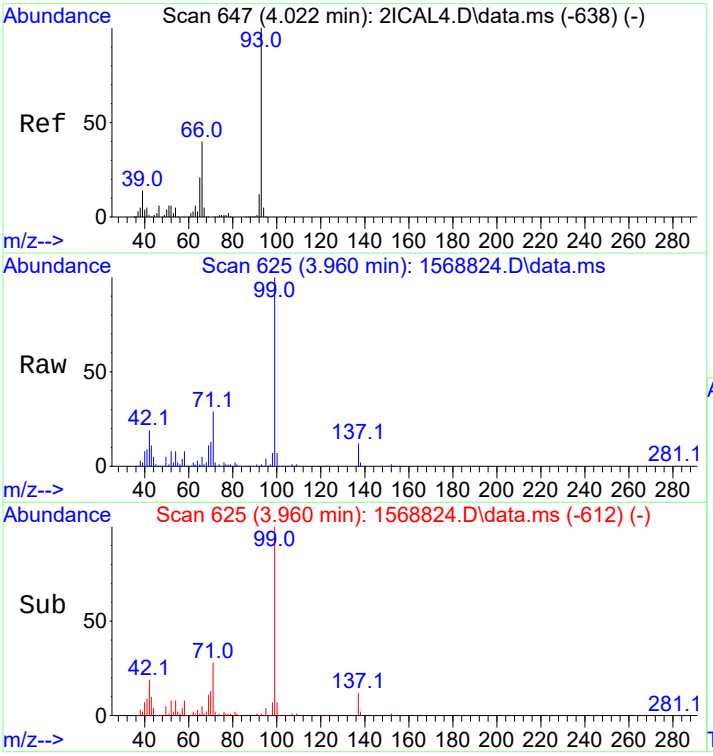




#3
Pyridine
Concen: 0.09 ug/mL
RT: 2.423 min Scan# 84
Delta R.T. 0.077 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion: 79 Resp: 1083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 1.9 | 66.5 | 126.5# |

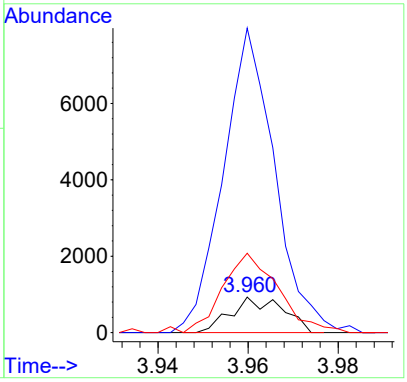


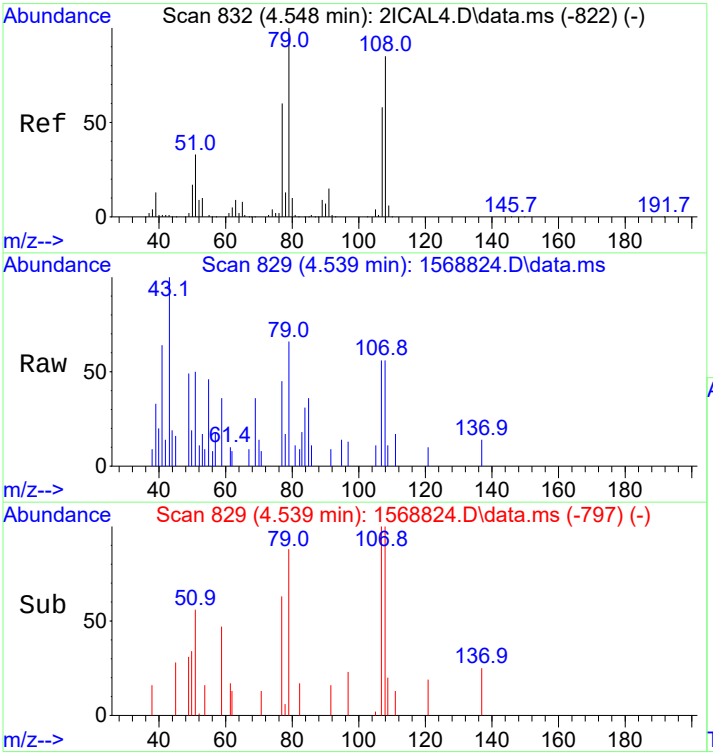



#5
Aniline
Concen: 0.05 ug/mL
RT: 3.960 min Scan# 625
Delta R.T. -0.062 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion: 93 Resp: 745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 850.6 | 10.3 | 70.3# |
| 65 | 0.0 | 0.0 | 51.7 |

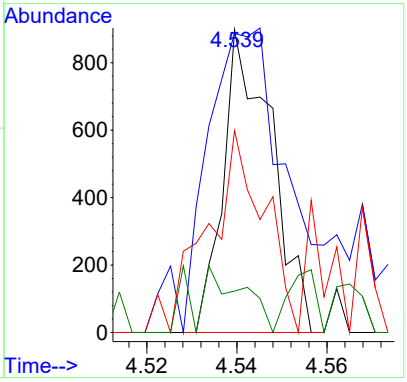


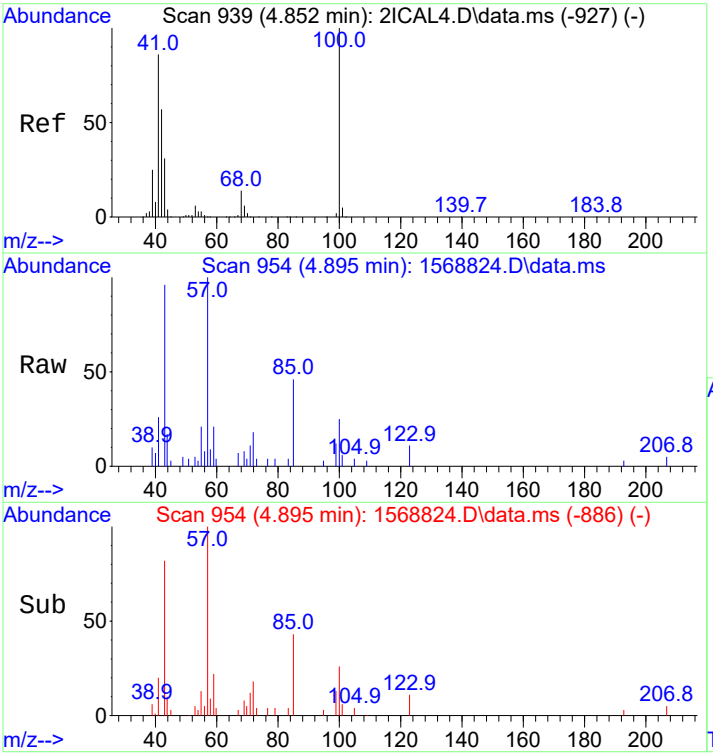




#13
Benzyl alcoho
Concen: 0.09 ug/mL
RT: 4.539 min Scan# 829
Delta R.T. -0.009 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:108 Resp: 671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 79 | 98.8 | 87.6 | 147.6 |
| 77 | 54.9 | 40.9 | 100.9 |
| 91 | 13.7 | 0.0 | 48.0 |

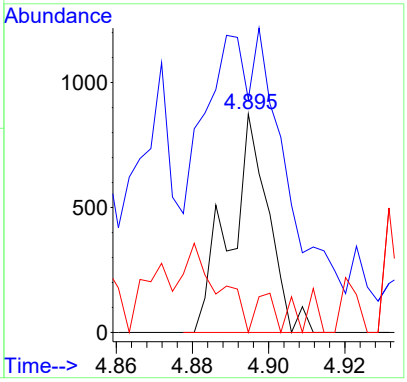


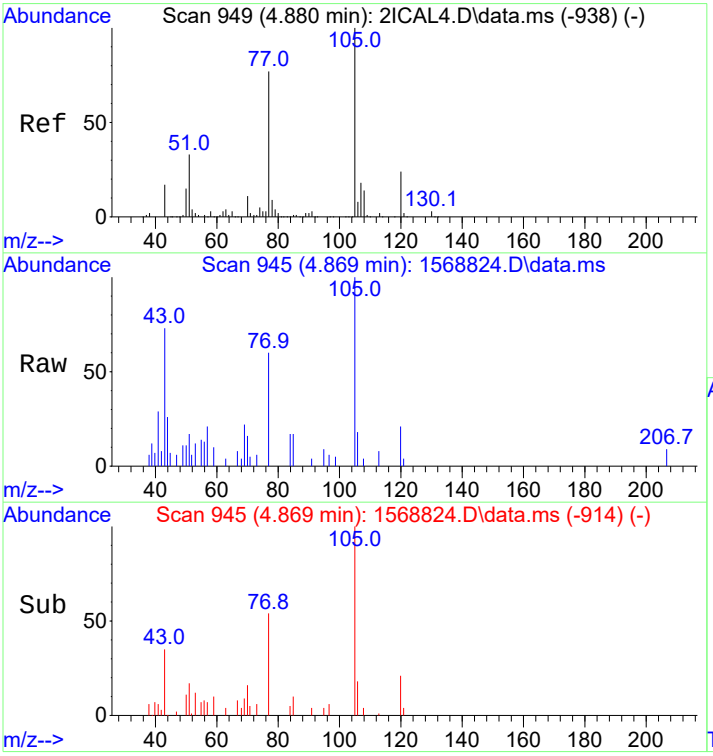



#16
Ntrspyrrol
Concen: 0.11 ug/mL
RT: 4.895 min Scan# 954
Delta R.T. 0.043 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:100 Resp: 616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 100 | 100 | | |
| 41 | 69.3 | 55.5 | 115.5 |
| 42 | 0.0 | 26.5 | 86.5# |

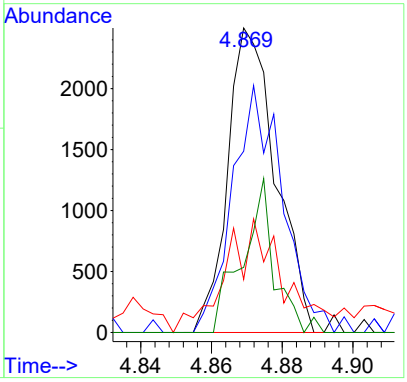


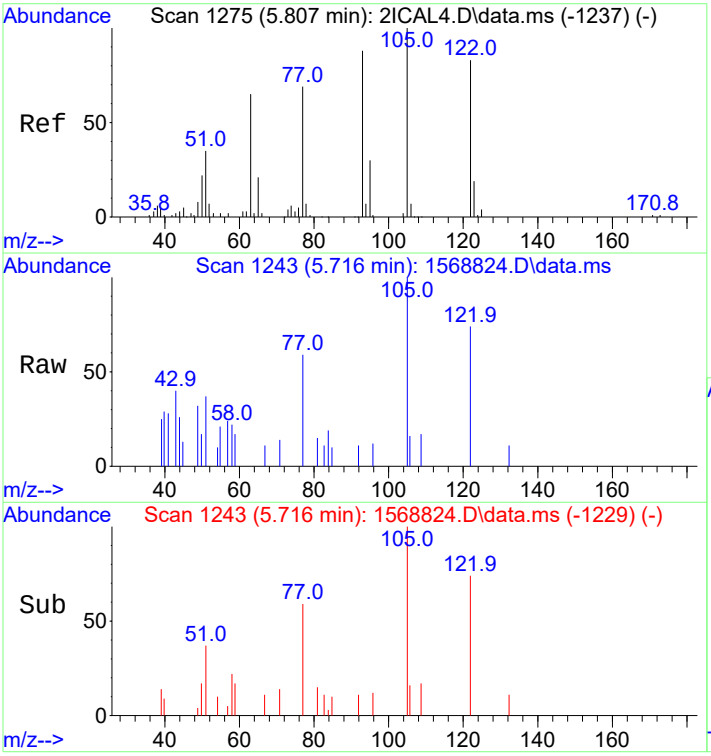




#17
Acetophenone
Concen: 0.15 ug/mL
RT: 4.869 min Scan# 945
Delta R.T. -0.011 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:105 Resp: 2368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 56.0 | 46.9 | 106.9 |
| 51 | 10.7 | 3.6 | 63.6 |
| 120 | 21.4 | 0.0 | 54.4 |

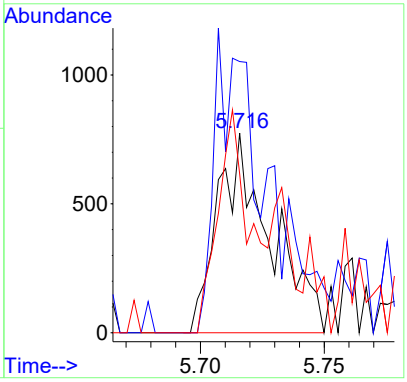


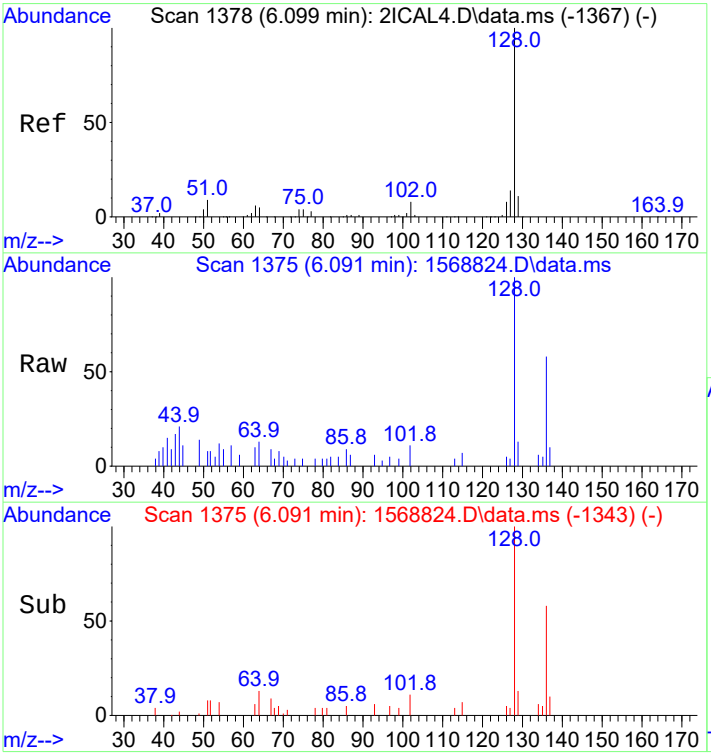



#30
Benzoic acid
Concen: 3.40 ug/mL
RT: 5.716 min Scan# 1243
Delta R.T. -0.091 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:122 Resp: 1145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 157.2 | 89.9 | 149.9# |
| 77 | 79.5 | 52.8 | 112.8 |

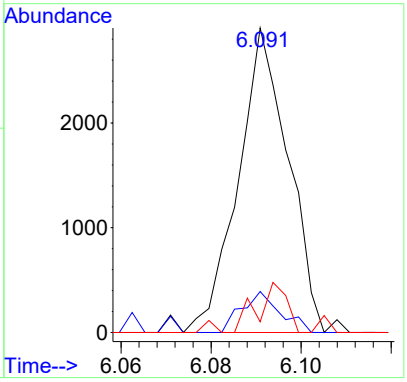


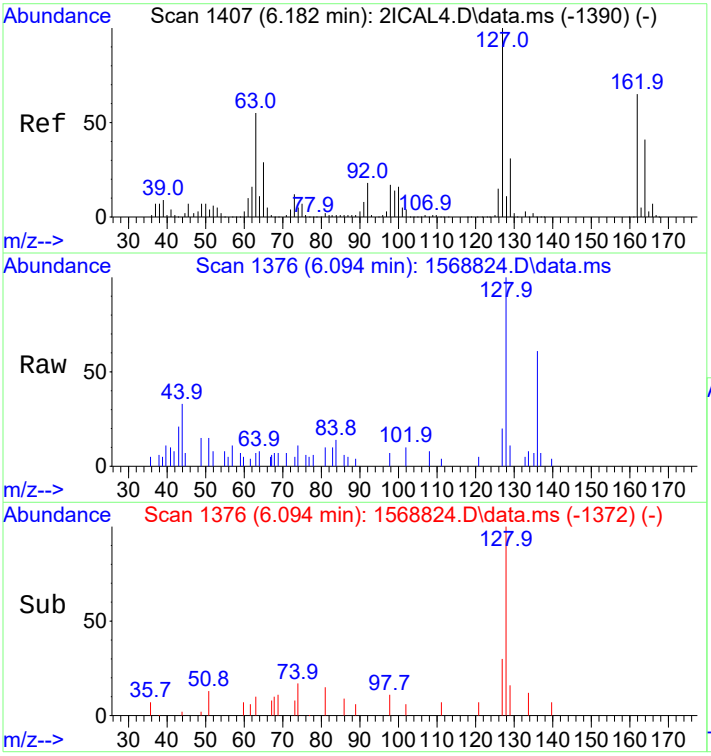




#31
Naphthalene
Concen: 0.06 ug/mL
RT: 6.091 min Scan# 1375
Delta R.T. -0.008 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:128 Resp: 2233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.5 | 0.0 | 41.2 |
| 127 | 3.5 | 0.0 | 43.6 |

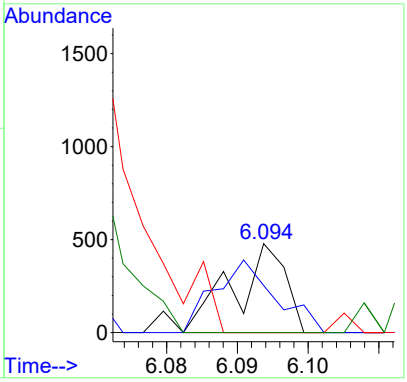


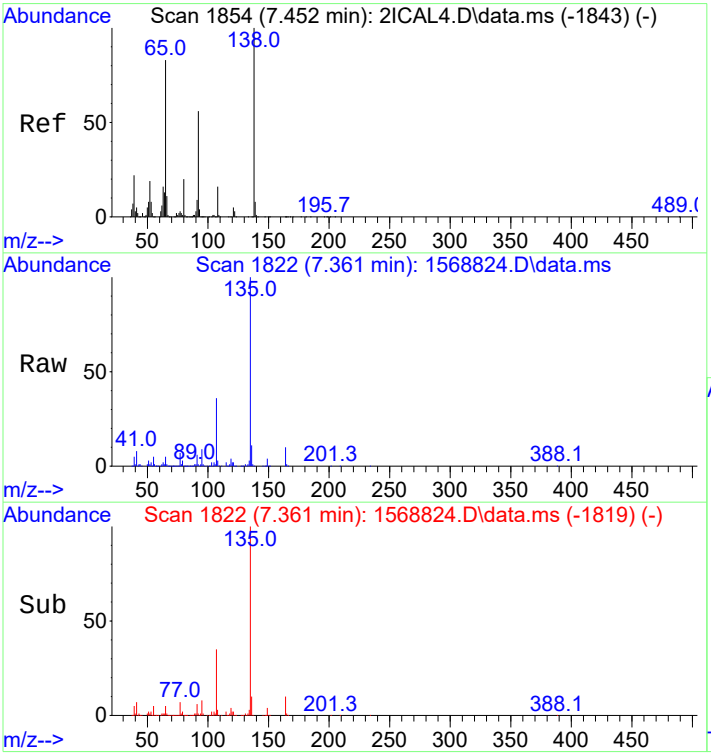



#32
4-Cl-aniline
Concen: 0.02 ug/mL
RT: 6.094 min Scan# 1376
Delta R.T. -0.088 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:127 Resp: 243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 52.9 | 1.0 | 61.0 |
| 65 | 0.0 | 0.0 | 59.3 |
| 92 | 0.0 | 0.0 | 47.8 |

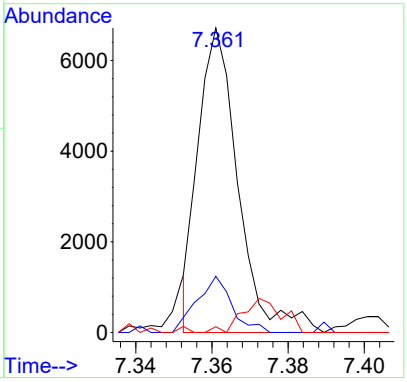


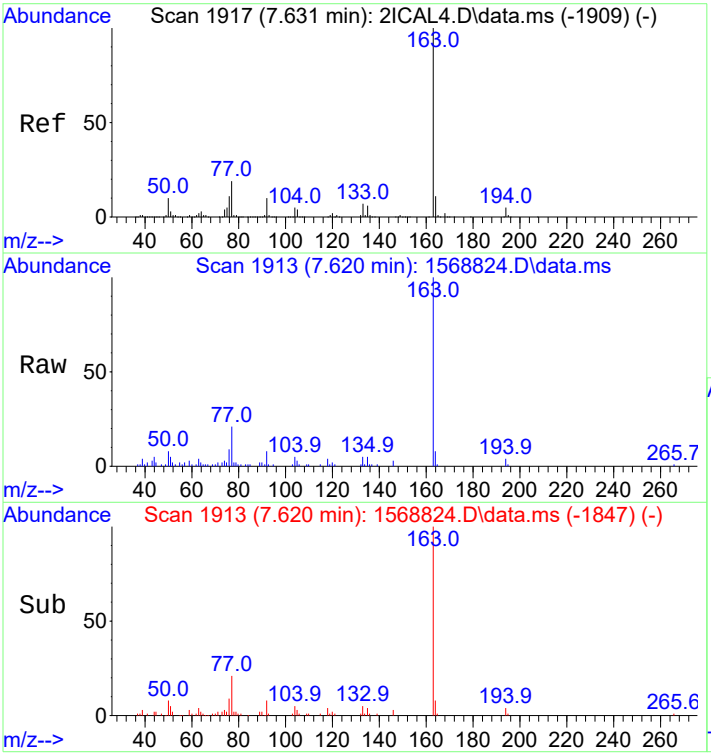




#46
2Nitroaniline
Concen: 0.96 ug/mL
RT: 7.361 min Scan# 1822
Delta R.T. -0.091 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion: 65 Resp: 4883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 13.5 | 37.1 | 97.1# |
| 138 | 1.9 | 90.0 | 150.0# |

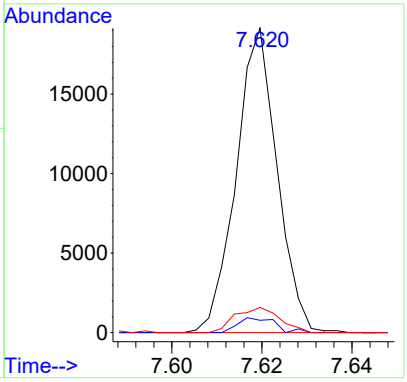


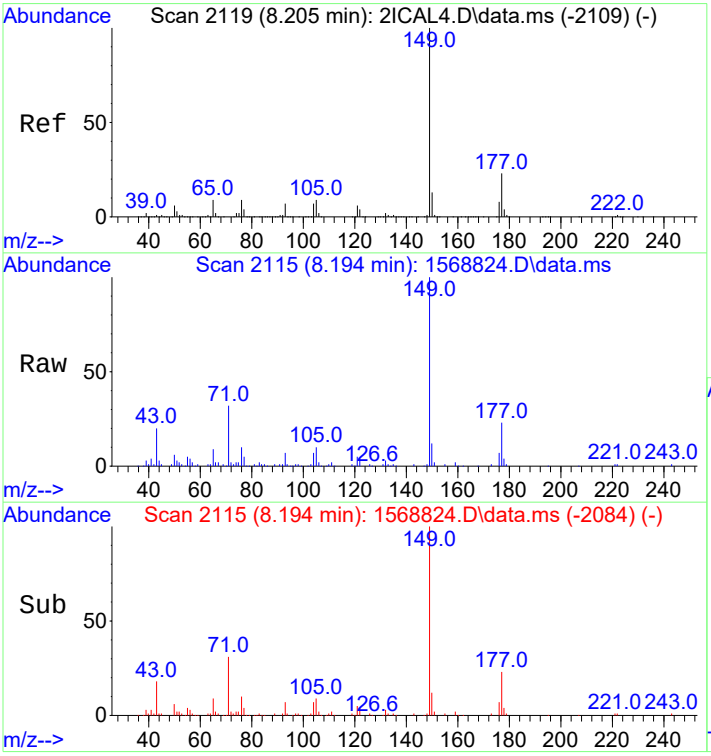



#48
Dimethylphtha
Concen: 0.44 ug/mL
RT: 7.620 min Scan# 1913
Delta R.T. -0.011 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:163 Resp: 12084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.0 | 0.0 | 34.8 |
| 164 | 9.0 | 0.0 | 40.8 |

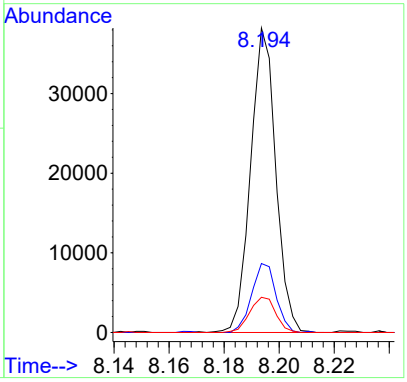


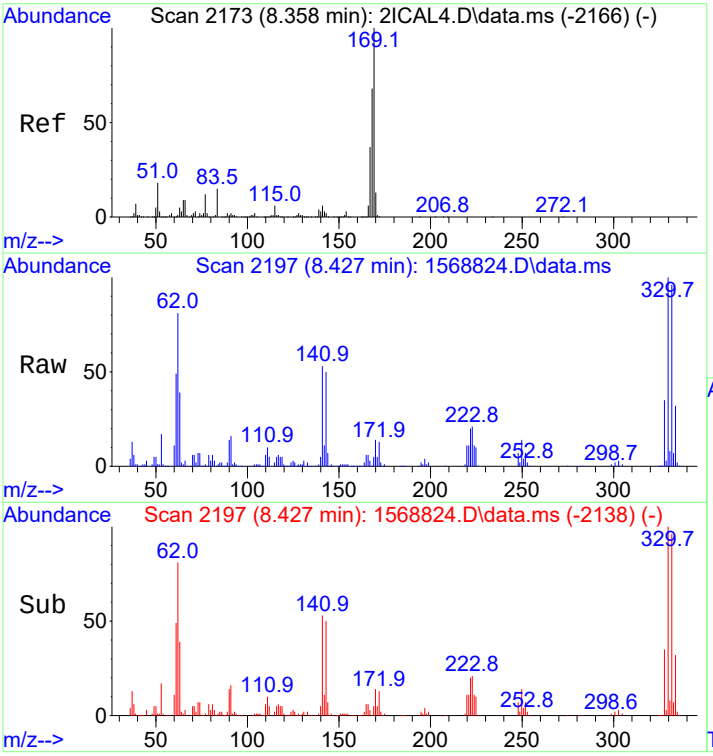




#60
Diethylphthal
Concen: 0.90 ug/mL
RT: 8.194 min Scan# 2115
Delta R.T. -0.011 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:149 Resp: 24263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.7 | 0.0 | 52.6 |
| 150 | 11.6 | 0.0 | 42.5 |

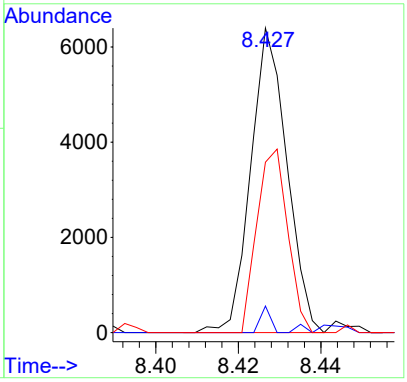


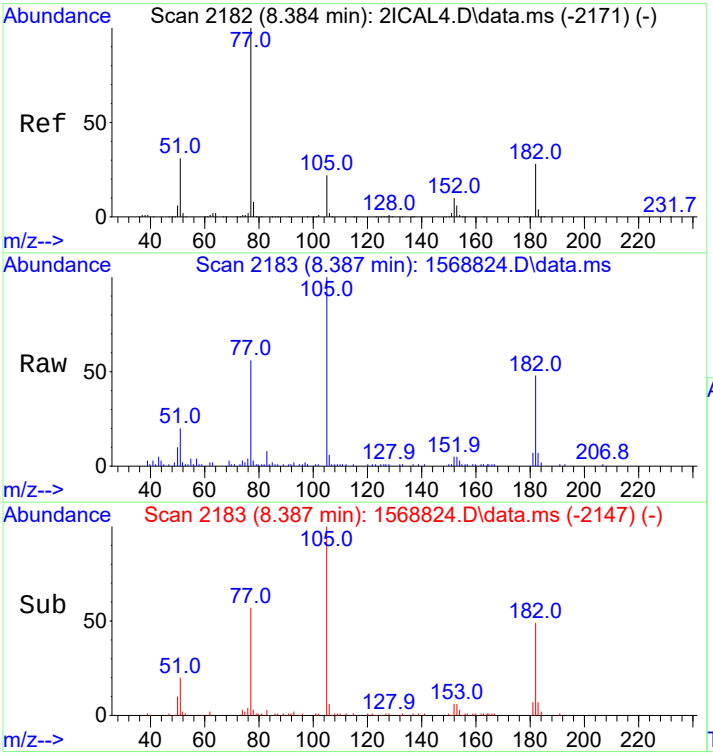



#65
Ntrsdiphlam&Diphlam
Concen: 0.16 ug/mL
RT: 8.427 min Scan# 2197
Delta R.T. 0.069 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:169 Resp: 3895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 8.7 | 37.9 | 97.9# |
| 167 | 64.7 | 7.0 | 67.0 |

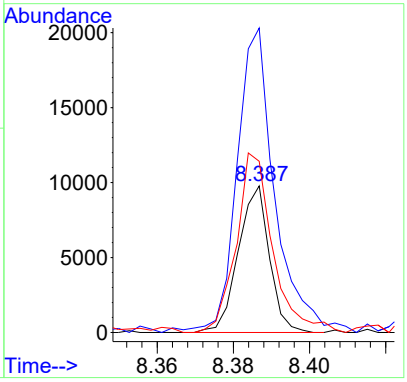


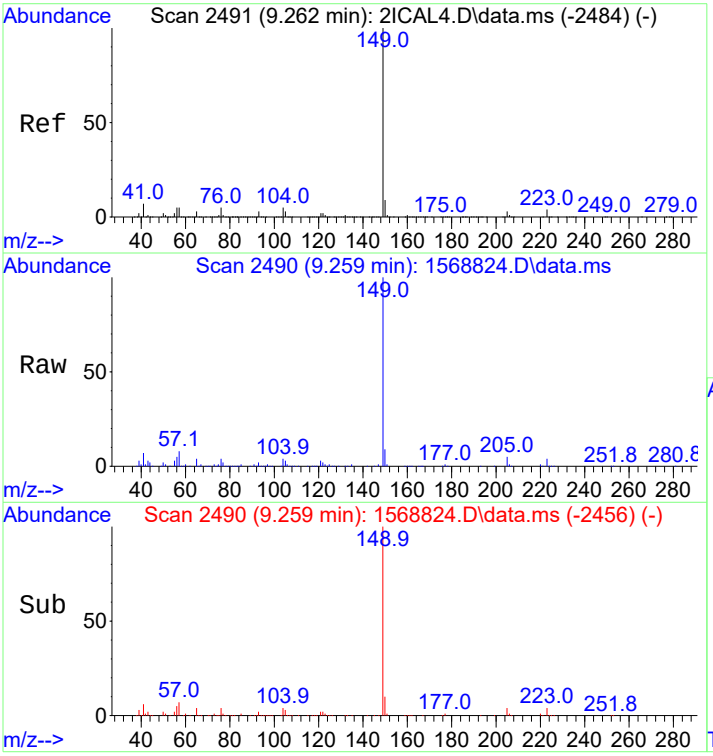




#66
Azobenz&12Diphlhyd
Concen: 0.78 ug/mL
RT: 8.387 min Scan# 2183
Delta R.T. 0.003 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:182 Resp: 5532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 205.9 | 46.9 | 106.9# |
| 77 | 116.7 | 335.2 | 395.2# |

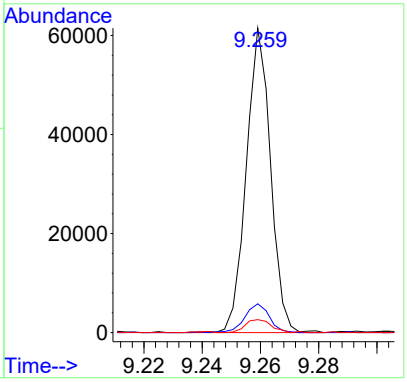


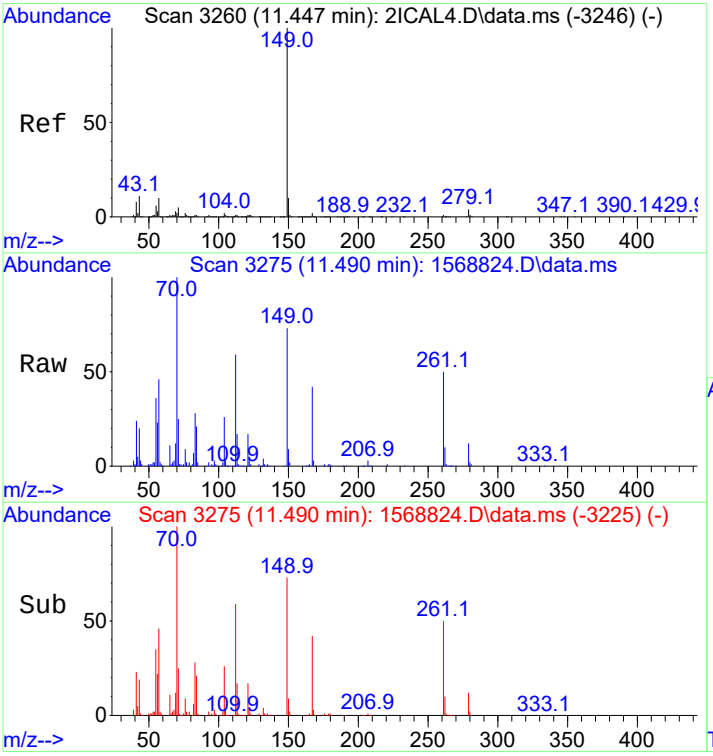



#73
Dinbtylphthal
Concen: 0.89 ug/mL
RT: 9.259 min Scan# 2490
Delta R.T. -0.003 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:149 Resp: 35537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.5 | 0.0 | 39.4 |
| 104 | 4.3 | 0.0 | 35.0 |

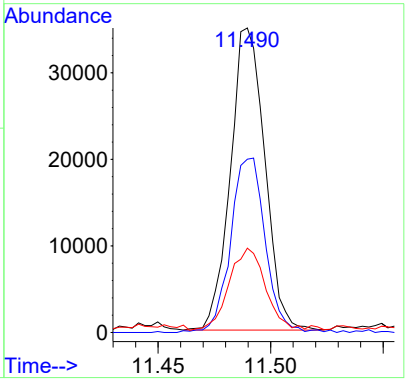



#85
Dinoctylphthl
Concen: 1.11 ug/mL
RT: 11.490 min Scan# 3275
Delta R.T. 0.043 min
Lab File: 1568824.D
Acq: 8 Apr 2025 14:44

Tgt Ion:149 Resp: 37148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 57.1 | 0.0 | 31.6# |
| 43 | 27.0 | 0.0 | 40.5 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568821.D Vial: 22
Acq On : 10 Apr 2025 16:55 Operator: ALD
Sample : 290730,1568821, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 17:11:51 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.327 | 152 | 182177 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.017 | 136 | 886819 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.796 | 164 | 497372 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.847 | 188 | 718094 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.728 | 240 | 631216 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.300 | 264 | 633254 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.108 | 112 | 327140 | 74.59 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 74.59% | | | |
| 7) SURRPhenol-d5 | 3.912 | 99 | 433974 | 82.32 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 82.32% | | | |
| 22) SURRNitrbenzened5 | 5.008 | 82 | 185603 | 76.81 | %REC | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 76.81% | | | |
| 44) SURR2Flbiphenyl | 7.211 | 172 | 496178 | 83.62 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 83.62% | | | |
| 62) SURR246Tribrphenl | 8.395 | 330 | 110995 | 83.37 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 83.37% | | | |
| 78) SURRTerphenyl-d14 | 9.918 | 244 | 584515 | 94.96 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 94.96% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.269 | 74 | 1031 | 0.1462 | ug/mL# | 1 |
| 3) Pyridine | 2.607 | 79 | 7741 | 0.6142 | ug/mL | 79 |
| 14) bis2clispreth | 4.625 | 45 | 1677 | 0.0801 | ug/mL | 65 |
| 26) 24Dimthpheno | 5.673 | 122 | 3841 | 0.3223 | ug/mL# | 5 |
| 30) Benzoic acid | 5.673 | 122 | 5013 | 3.6037 | ug/mL | 96 |
| 31) Naphthalene | 6.043 | 128 | 5691 | 0.1391 | ug/mL | 89 |
| 32) 4-Cl-aniline | 6.043 | 127 | 654 | 0.0410 | ug/mL# | 67 |
| 37) 2Methylnaphth | 6.833 | 142 | 1355 | 0.0548 | ug/mL# | 65 |
| 42) 246Triclpheno | 7.159 | 196 | 293 | 0.0385 | ug/mL# | 74 |
| 43) 245Triclpheno | 7.159 | 196 | 293 | 0.0354 | ug/mL | 87 |
| 56) 2,3,5,6-Tetrachlorop | 8.035 | 232 | 327 | 0.5995 | ug/mL# | 54 |
| 57) 2,3,4,6-Tetrachlorop | 8.066 | 232 | 493 | 0.3981 | ug/mL# | 79 |
| 58) Fluorene | 8.231 | 166 | 2467 | 0.0934 | ug/mL | 83 |
| 60) Diethylphthal | 8.157 | 149 | 1201 | 0.0410 | ug/mL | 72 |
| 65) Ntrsdiphlam&Diphlam | 8.395 | 169 | 4621 | 0.2496 | ug/mL# | 39 |
| 66) Azobenz&12Diphlhyd | 8.344 | 182 | 1101 | 0.1668 | ug/mL# | 1 |
| 70) Phenanthrene | 8.861 | 178 | 48604 | 1.3893 | ug/mL | 97 |
| 71) Anthracene | 8.893 | 178 | 8128 | 0.2283 | ug/mL | 86 |
| 72) Carbazole | 8.998 | 167 | 7354 | 0.2426 | ug/mL | 99 |
| 73) Dinbtylphthal | 9.225 | 149 | 6706 | 0.1582 | ug/mL | 98 |
| 74) Fluoranthene | 9.657 | 202 | 98583 | 2.6685 | ug/mL | 97 |
| 77) Pyrene | 9.813 | 202 | 74910 | 1.8684 | ug/mL | 95 |
| 82) B[a]anthracen | 10.720 | 228 | 35143 | 0.9247 | ug/mL | 94 |
| 83) Chrysene | 10.748 | 228 | 35661 | 1.0006 | ug/mL | 96 |
| 84) bis2Ethlhxlph | 10.737 | 149 | 10088 | 0.3488 | ug/mL | 92 |
| 85) Dinoctylphthl | 11.430 | 149 | 129273 | 2.9330 | ug/mL# | 51 |
| 87) B[b]fluoranth | 11.817 | 252 | 43397 | 1.2937 | ug/mL | 96 |
| 88) B[k]fluoranth | 11.845 | 252 | 14285 | 0.4250 | ug/mL | 89 |
| 89) Benz[a]pyrene | 12.217 | 252 | 24593 | 0.7972 | ug/mL | 95 |
| 90) Indeno-pyrene | 13.581 | 276 | 16827 | 0.4932 | ug/mL | 93 |
| 91) Dib[ah]anthr | 13.618 | 278 | 3983 | 0.1428 | ug/mL | 73 |
| 92) B[ghi]perylen | 13.905 | 276 | 15894 | 0.5946 | ug/mL | 94 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568821.D Vial: 22
Acq On : 10 Apr 2025 16:55 Operator: ALD
Sample : 290730,1568821, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 17:11:51 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

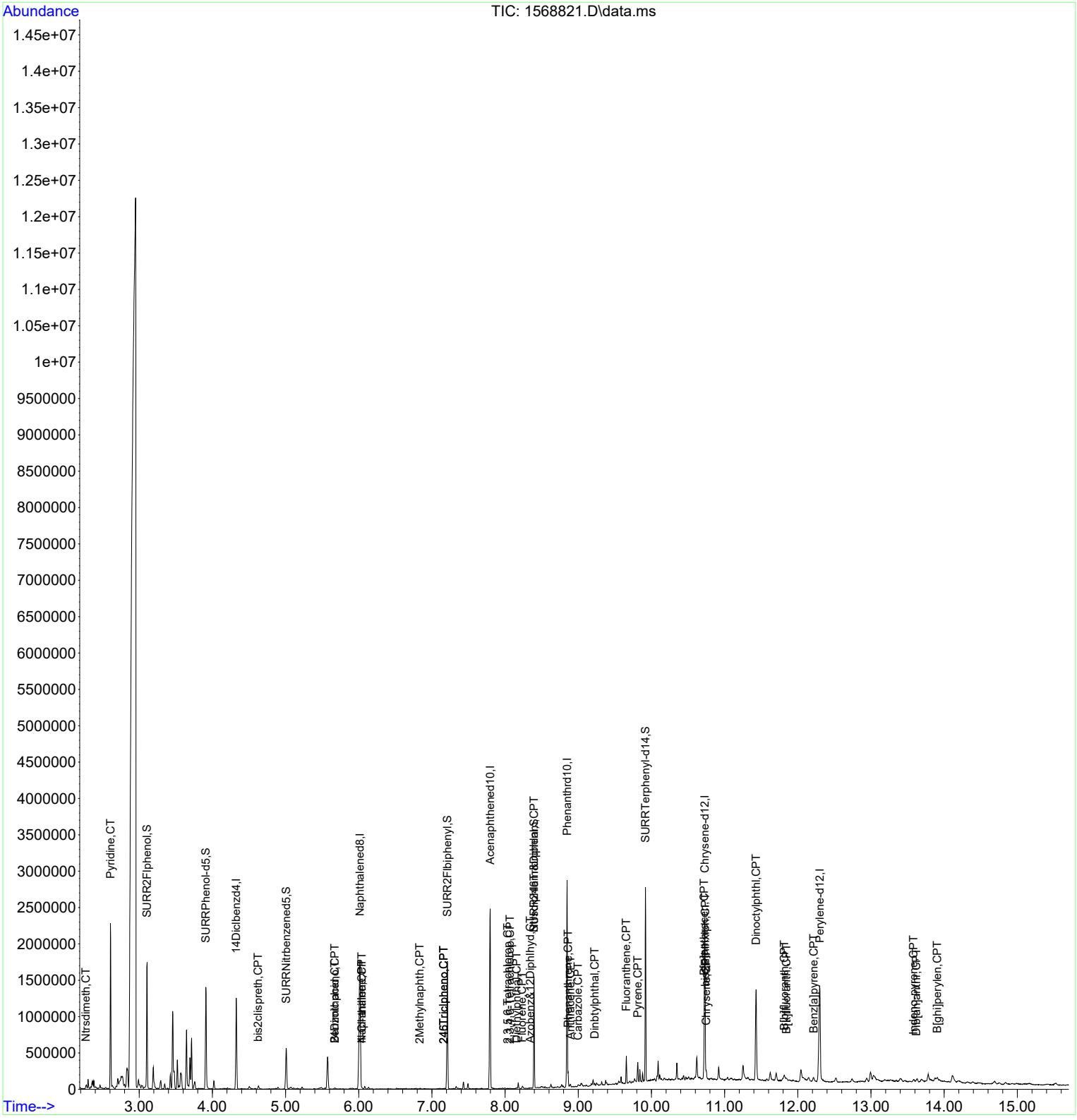
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

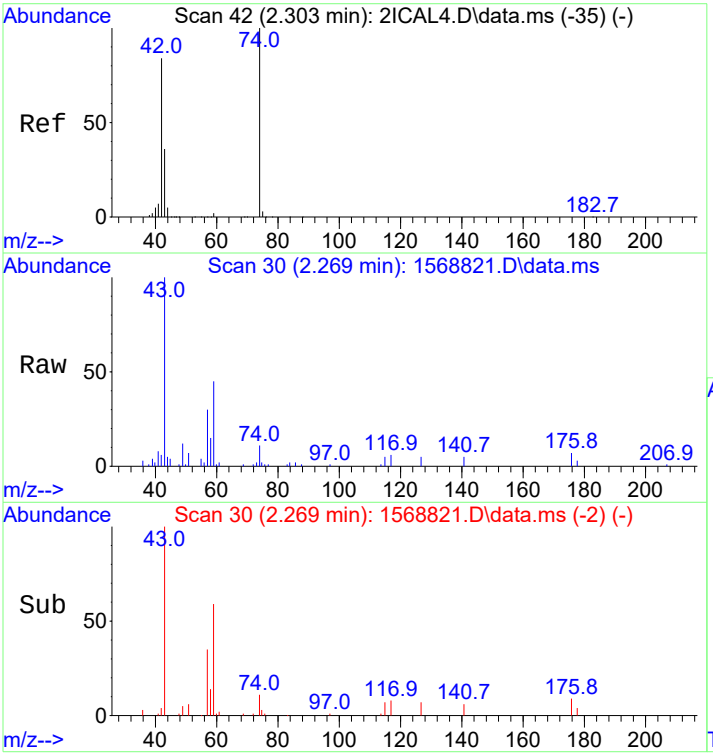
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568821.D Vial: 22
Acq On : 10 Apr 2025 16:55 Operator: ALD
Sample : 290730,1568821, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 17:11:51 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

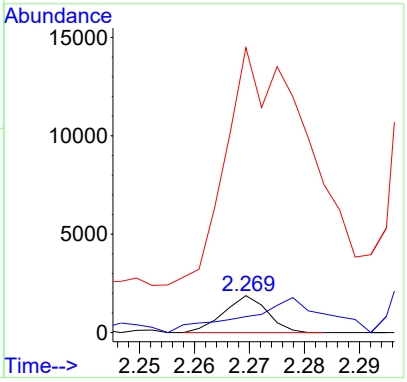


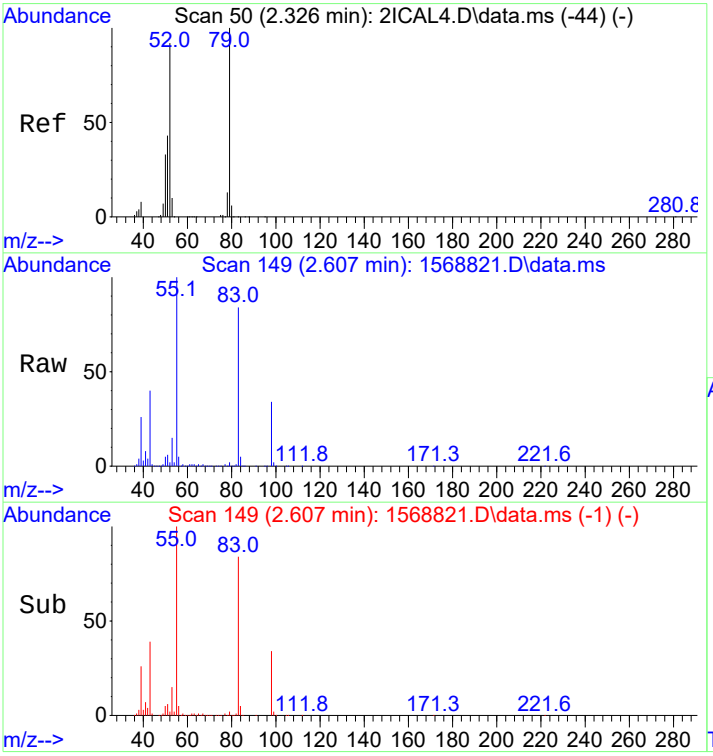



#2
Ntrsdimeth
Concen: 0.15 ug/mL
RT: 2.269 min Scan# 30
Delta R.T. -0.020 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion: 74 Resp: 1031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 22.1 | 53.9 | 113.9# |
| 43 | 621.1 | 6.0 | 66.0# |

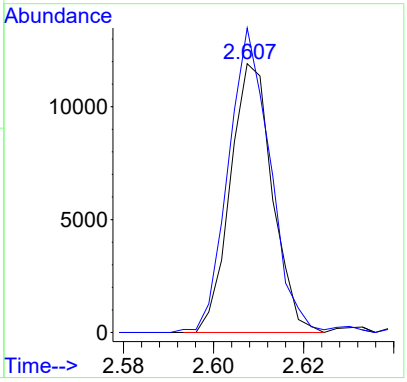


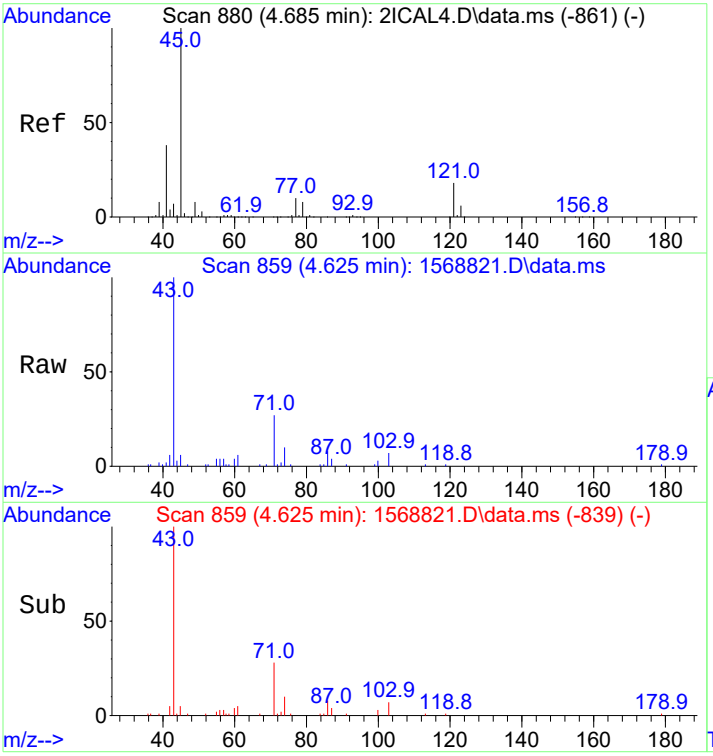




#3
Pyridine
Concen: 0.61 ug/mL
RT: 2.607 min Scan# 149
Delta R.T. 0.298 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion: 79 Resp: 7741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 112.2 | 62.5 | 122.5 |

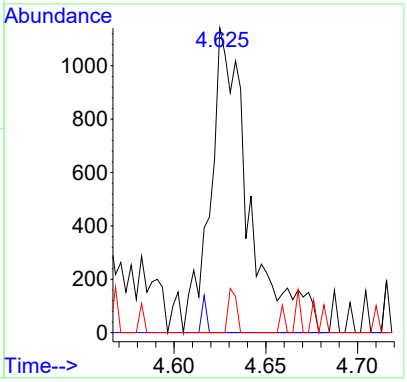


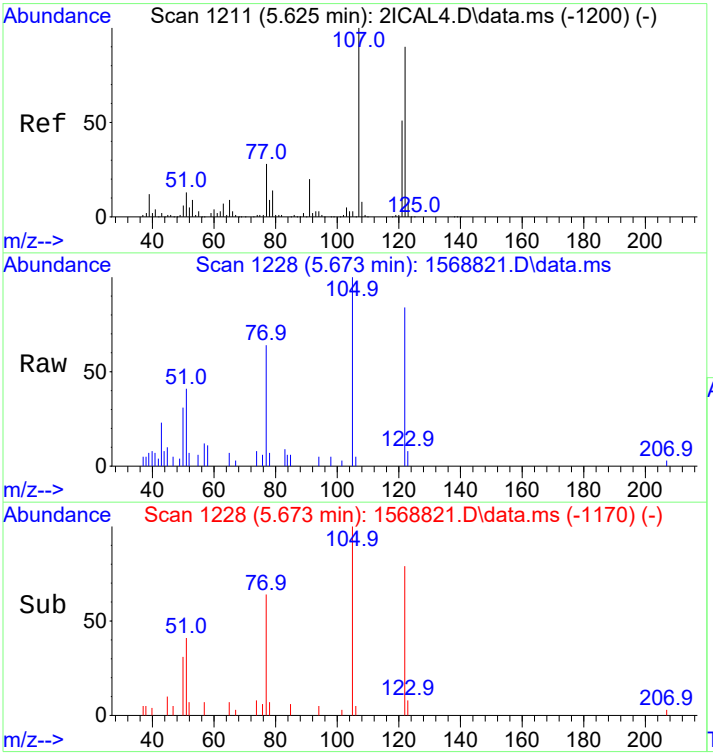



#14
bis2clispreth
Concen: 0.08 ug/mL
RT: 4.625 min Scan# 859
Delta R.T. -0.043 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion: 45 Resp: 1677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 0.0 | 0.0 | 47.5 |
| 77 | 0.0 | 0.0 | 40.1 |

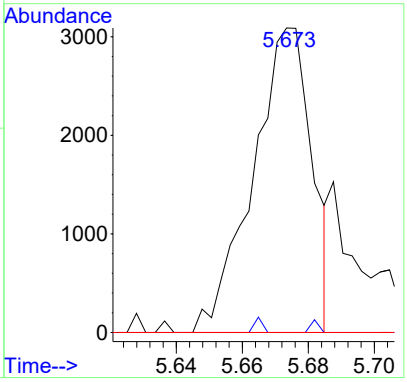


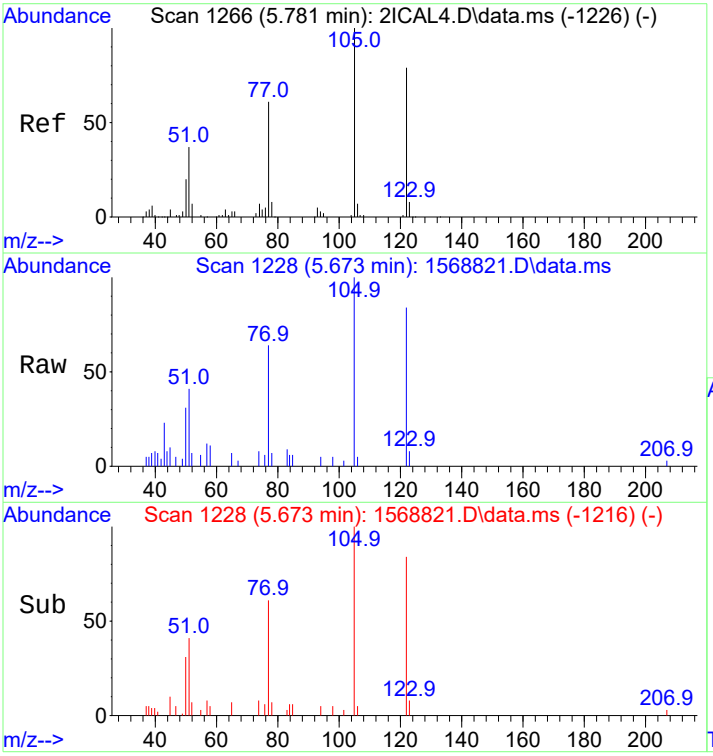




#26
24Dimthpheno
Concen: 0.32 ug/mL
RT: 5.673 min Scan# 1228
Delta R.T. 0.065 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:122 Resp: 3841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 0.0 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

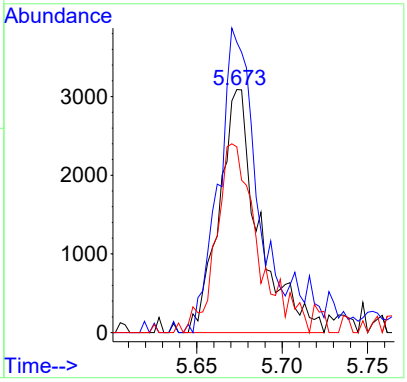


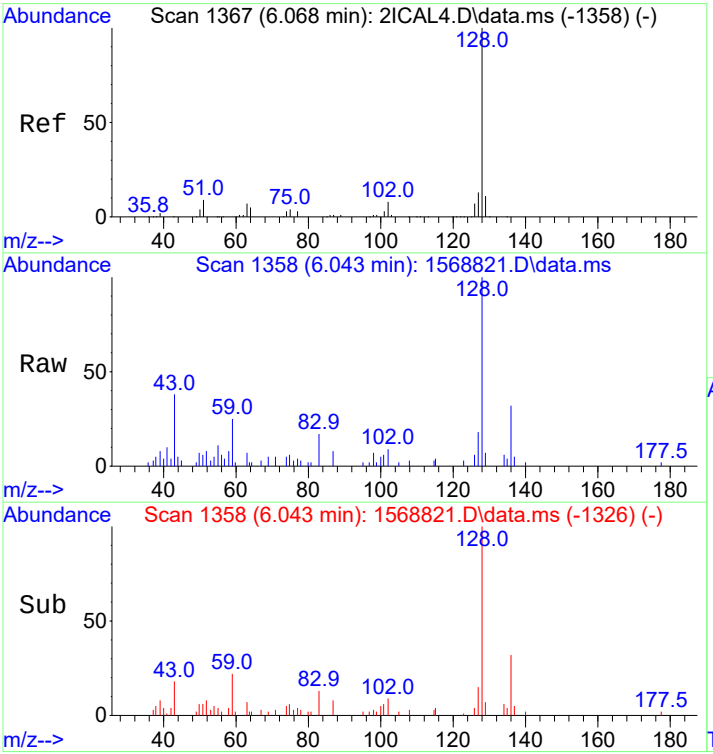



#30
Benzoic acid
Concen: 3.60 ug/mL
RT: 5.673 min Scan# 1228
Delta R.T. -0.096 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:122 Resp: 5013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 119.5 | 96.0 | 156.0 |
| 77 | 76.4 | 46.6 | 106.6 |

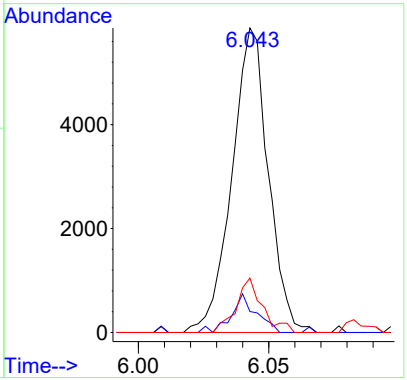


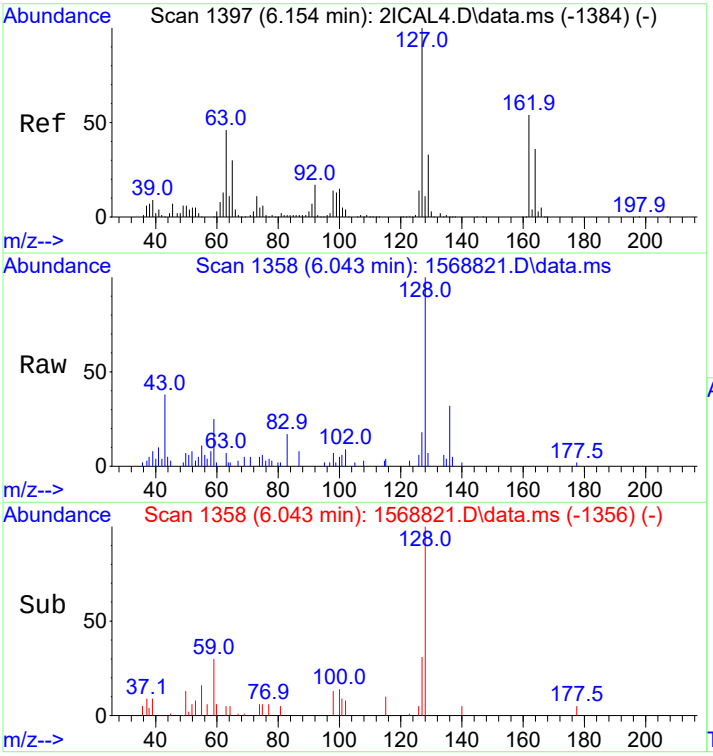




#31
Naphthalene
Concen: 0.14 ug/mL
RT: 6.043 min Scan# 1358
Delta R.T. -0.008 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:128 Resp: 5691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 6.9 | 0.0 | 41.0 |
| 127 | 17.9 | 0.0 | 43.3 |

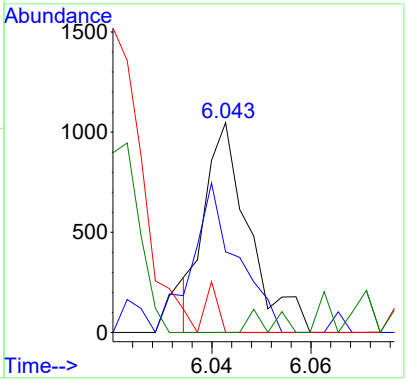


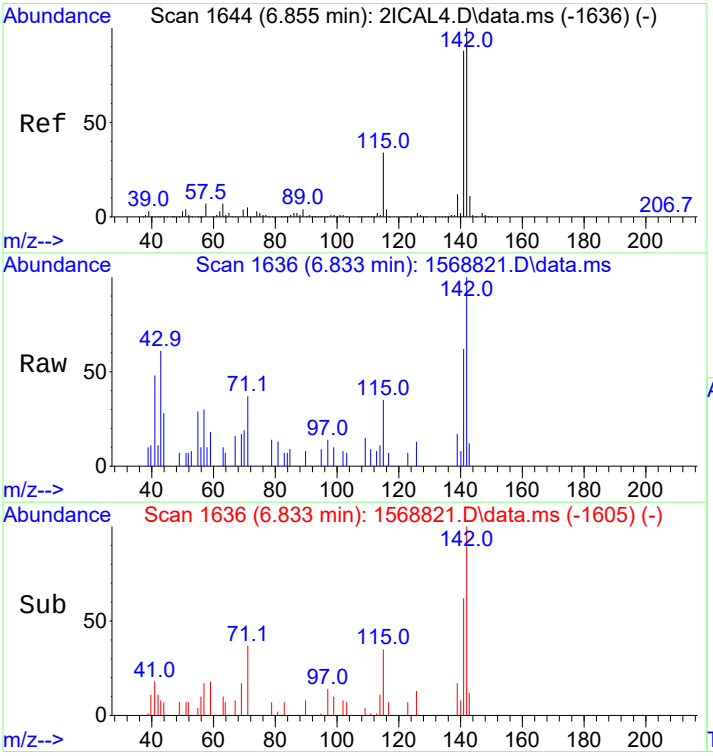



#32
4-Cl-aniline
Concen: 0.04 ug/mL
RT: 6.043 min Scan# 1358
Delta R.T. -0.094 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:127 Resp: 654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 38.5 | 3.1 | 63.1 |
| 65 | 0.0 | 0.2 | 60.2# |
| 92 | 0.0 | 0.0 | 46.7 |

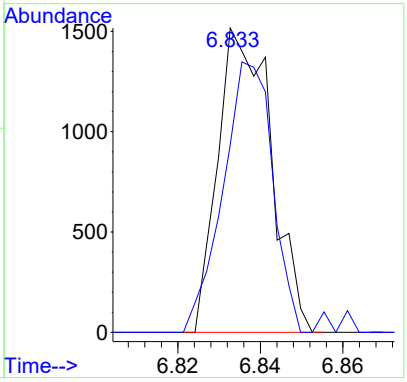


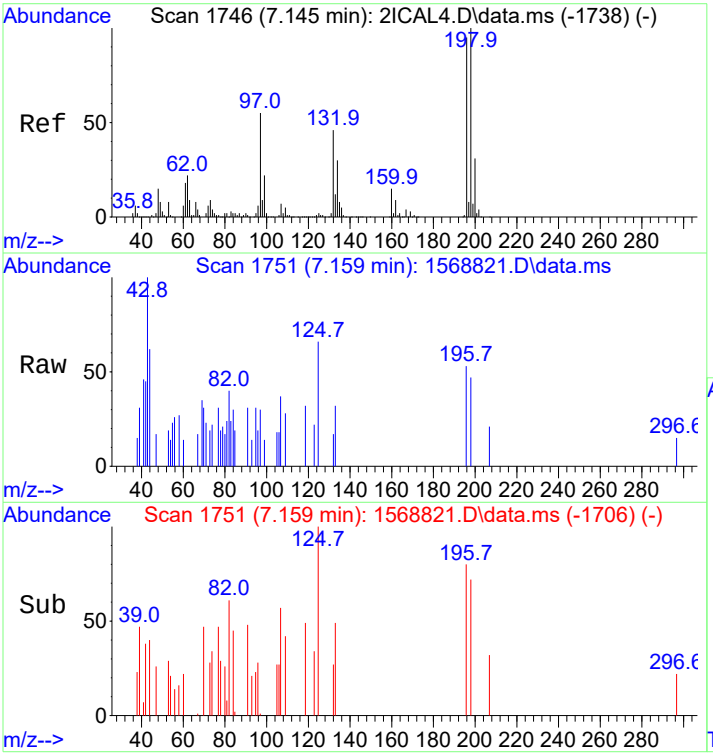




#37
2Methylnaphth
Concen: 0.05 ug/mL
RT: 6.833 min Scan# 1636
Delta R.T. -0.011 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:142 Resp: 1355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 55.1 | 58.0 | 118.0# |

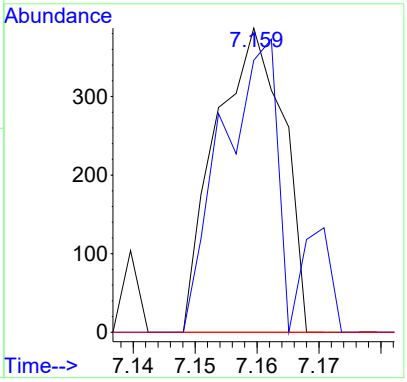


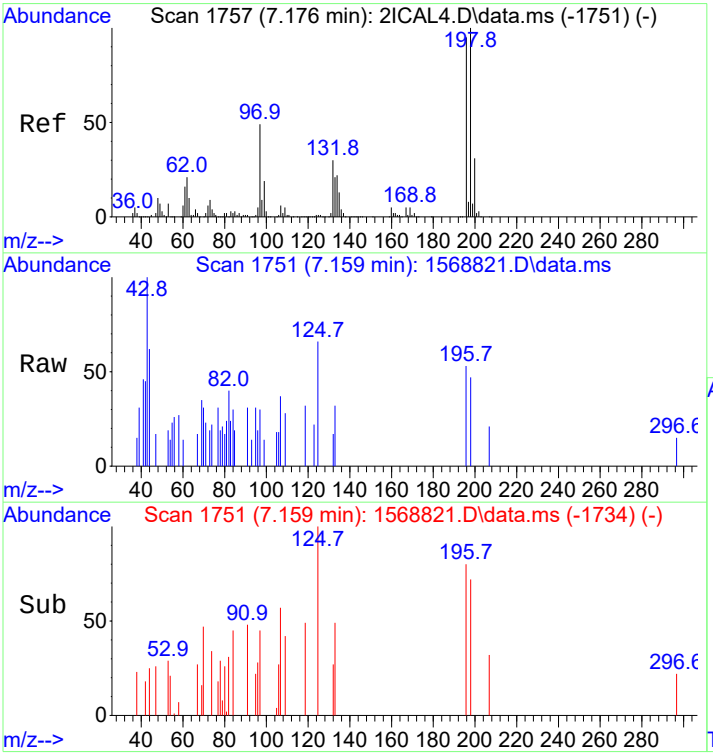



#42
246Triclpheno
Concen: 0.04 ug/mL
RT: 7.159 min Scan# 1751
Delta R.T. 0.029 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:196 Resp: 293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 89.4 | 75.5 | 135.5 |
| 200 | 0.0 | 3.0 | 63.0# |

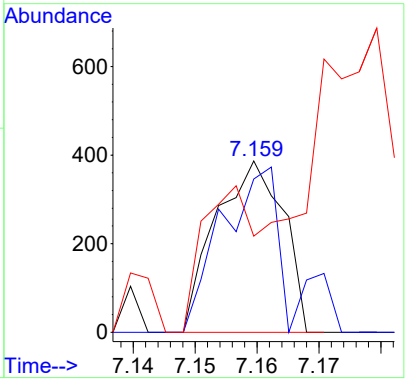


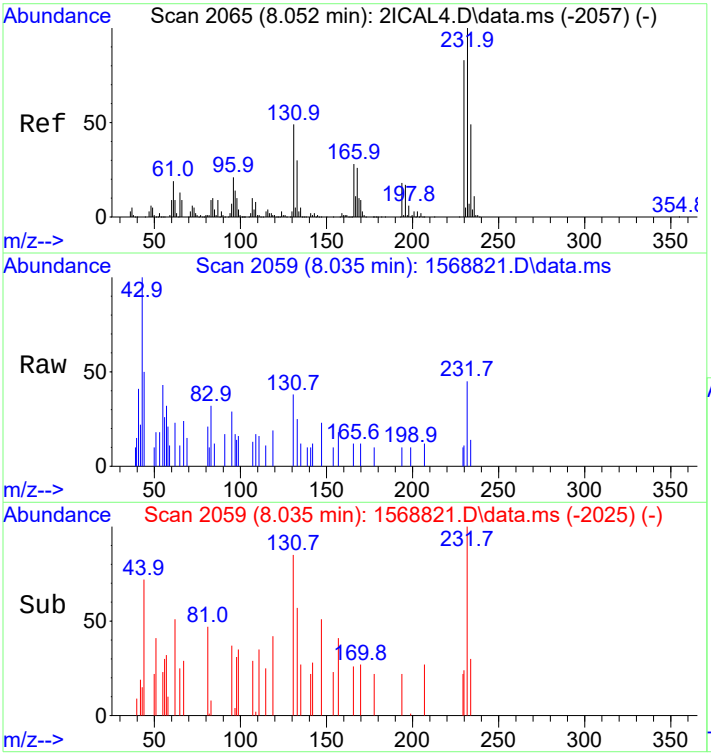




#43
245Triclpheno
Concen: 0.04 ug/mL
RT: 7.159 min Scan# 1751
Delta R.T. -0.003 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:196 Resp: 293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 89.4 | 74.7 | 134.7 |
| 97 | 56.1 | 20.7 | 80.7 |

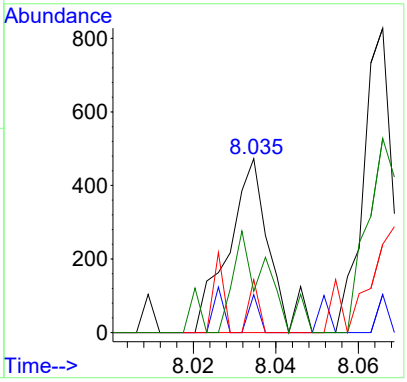


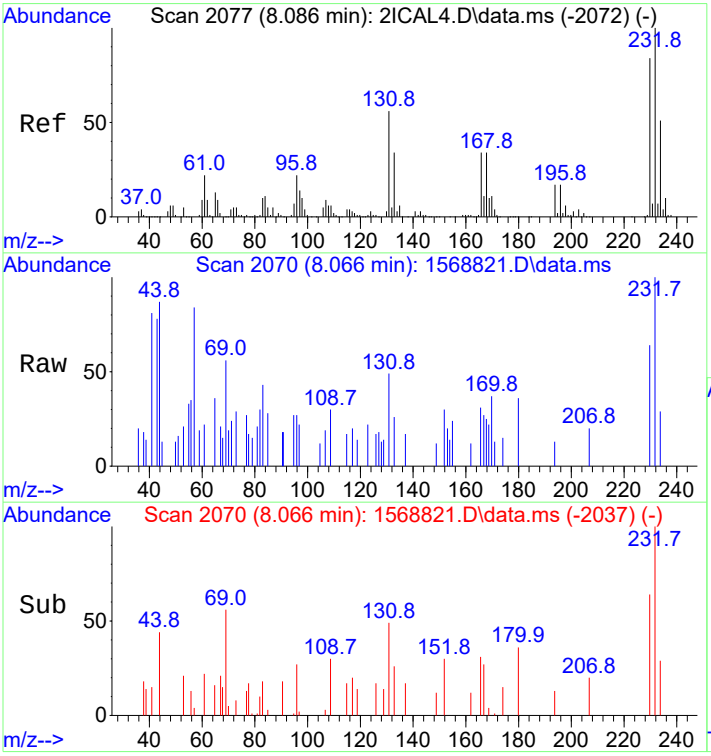



#56
2,3,5,6-Tetrachlorop
Concen: 0.60 ug/mL
RT: 8.035 min Scan# 2059
Delta R.T. -0.003 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:232 Resp: 327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 194 | 21.8 | 0.0 | 48.3 |
| 234 | 30.4 | 18.5 | 78.5 |
| 230 | 23.7 | 52.6 | 112.6# |

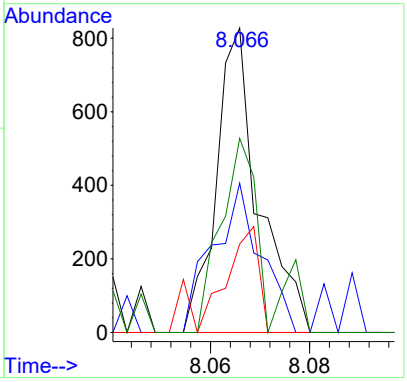


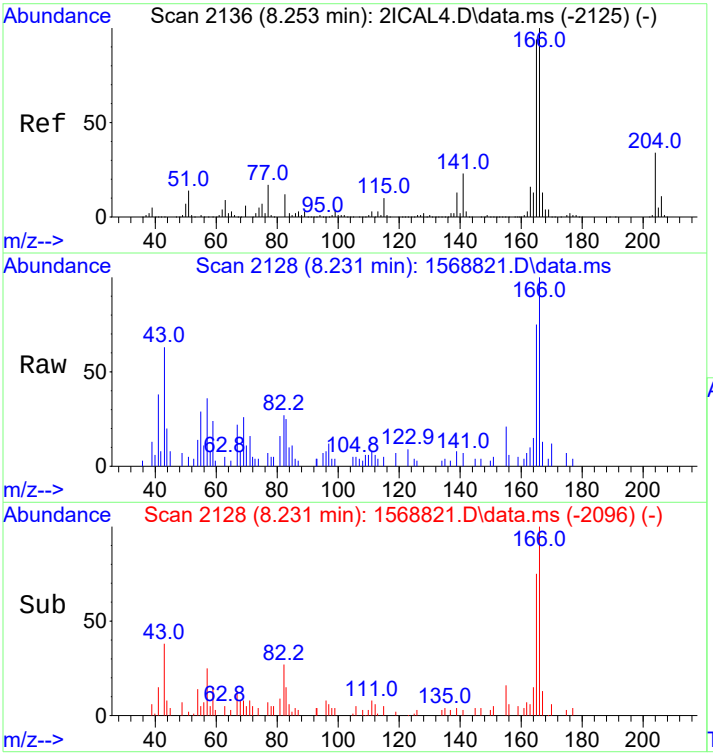




#57
2,3,4,6-Tetrachlorop
Concen: 0.40 ug/mL
RT: 8.066 min Scan# 2070
Delta R.T. -0.006 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:232 Resp: 493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 49.0 | 35.2 | 75.2 |
| 234 | 29.0 | 31.0 | 71.0# |
| 230 | 63.8 | 64.0 | 104.0# |

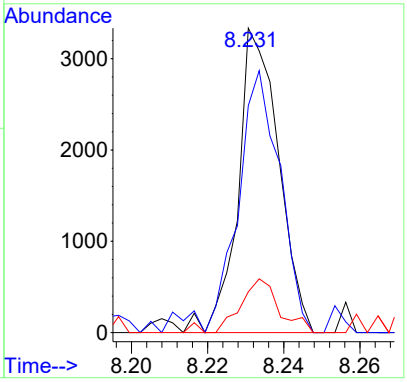


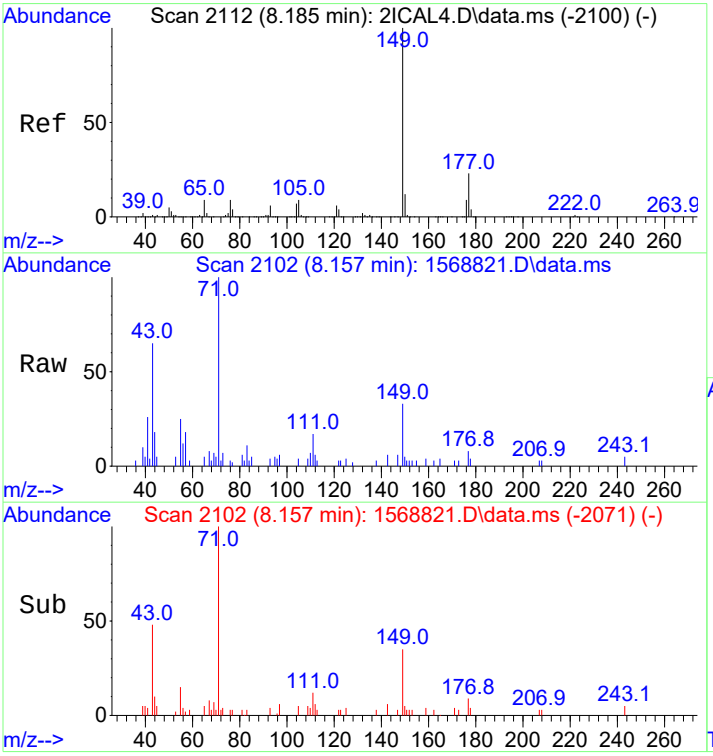



#58
Fluorene
Concen: 0.09 ug/mL
RT: 8.231 min Scan# 2128
Delta R.T. -0.008 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:166 Resp: 2467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 74.6 | 63.6 | 123.6 |
| 167 | 13.4 | 0.0 | 43.3 |

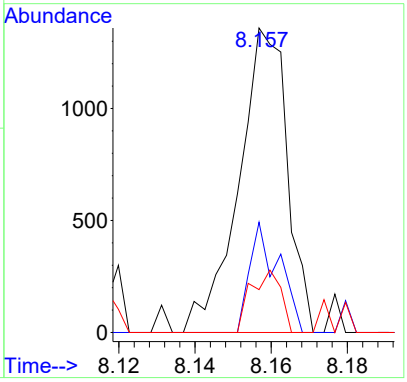


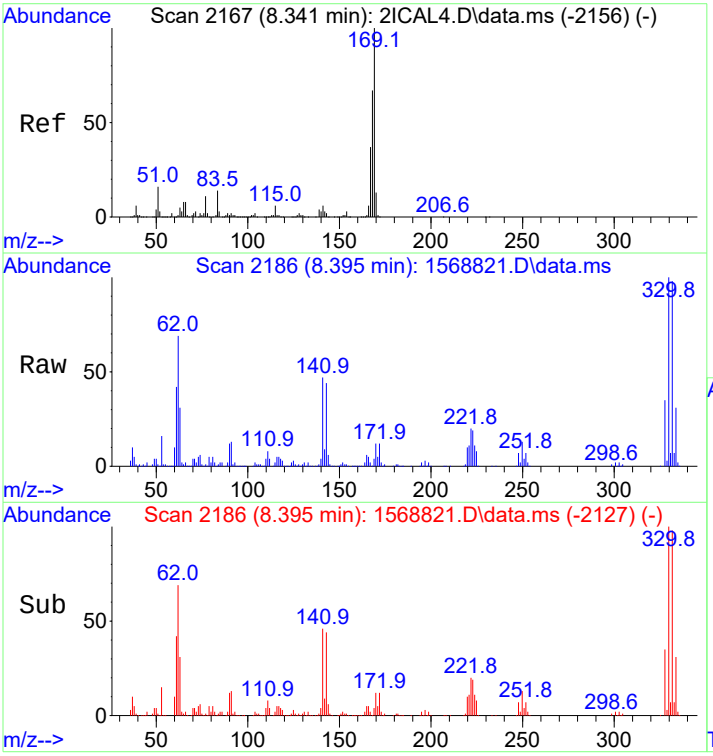




#60
Diethylphthal
Concen: 0.04 ug/mL
RT: 8.157 min Scan# 2102
Delta R.T. -0.011 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:149 Resp: 1201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 36.2 | 0.0 | 52.5 |
| 150 | 23.0 | 0.0 | 42.2 |

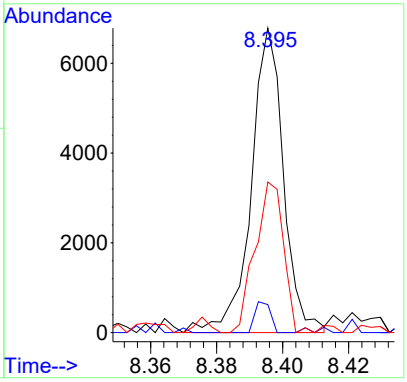


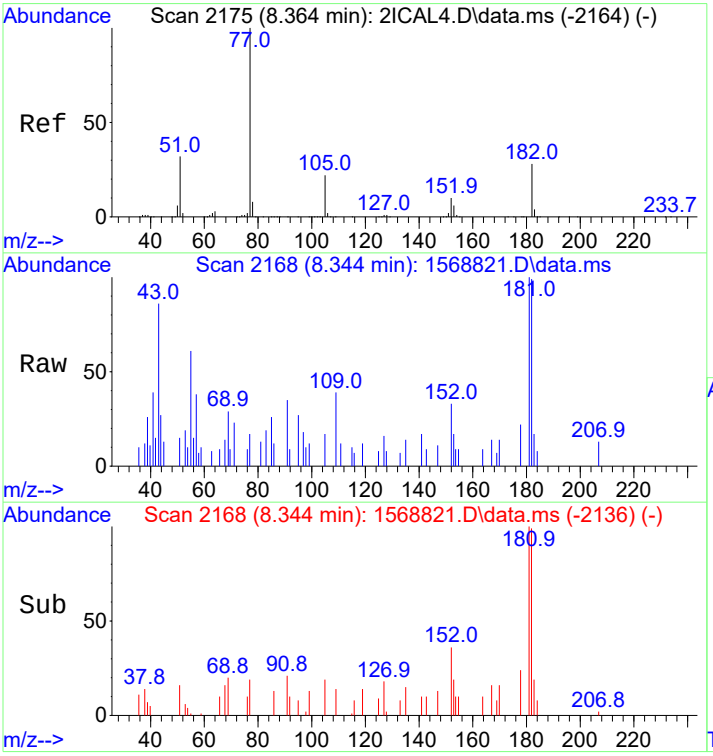



#65
Ntrsdiphlam&Diphlam
Concen: 0.25 ug/mL
RT: 8.395 min Scan# 2186
Delta R.T. 0.068 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:169 Resp: 4621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 7.7 | 37.2 | 97.2# |
| 167 | 58.7 | 6.9 | 66.9 |

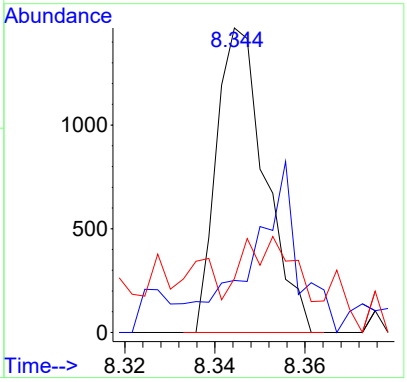


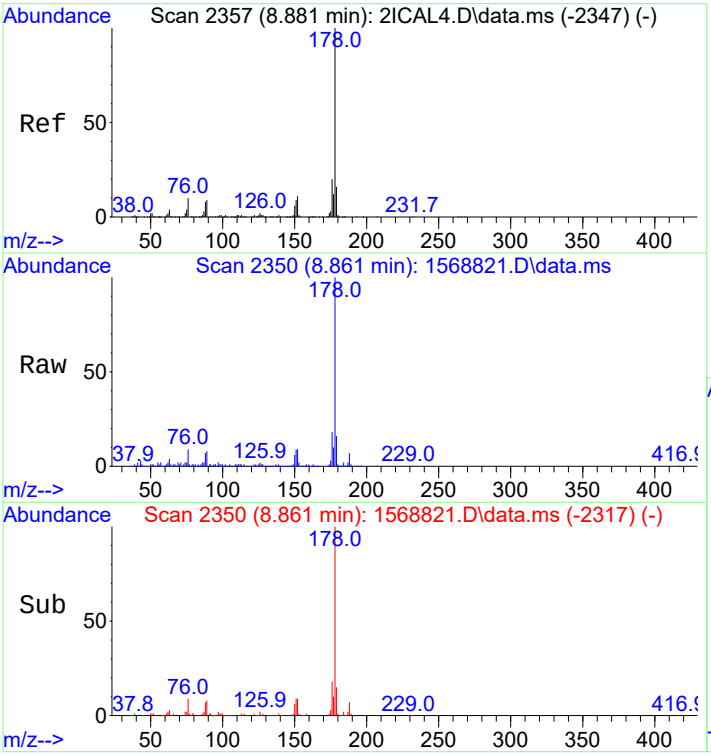




#66
Azobenz&12Diphlhyd
Concen: 0.17 ug/mL
RT: 8.344 min Scan# 2168
Delta R.T. -0.008 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:182 Resp: 1101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 6.5 | 49.9 | 109.9# |
| 77 | 0.1 | 339.9 | 399.9# |

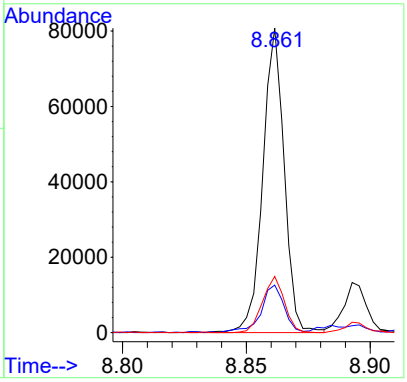


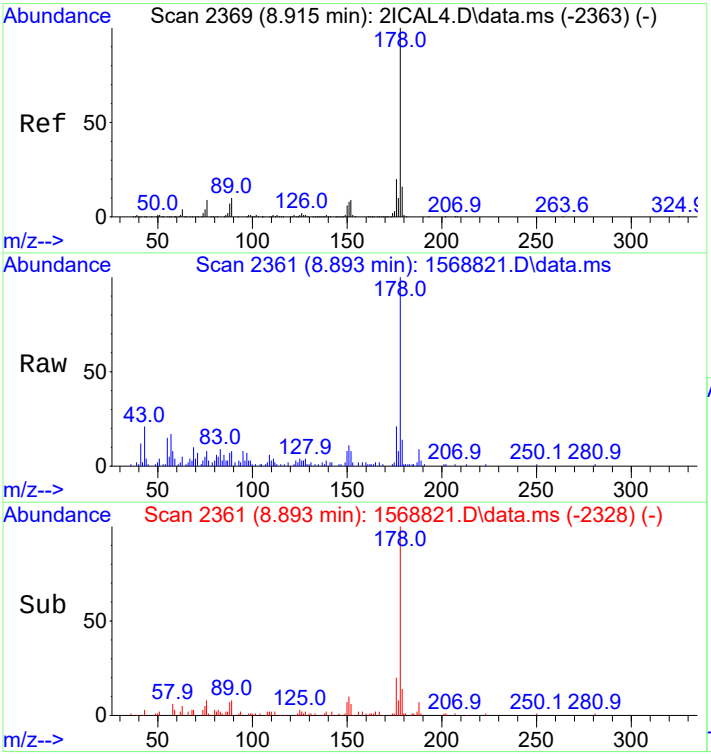



#70
Phenanthrene
Concen: 1.39 ug/mL
RT: 8.861 min Scan# 2350
Delta R.T. -0.006 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:178 Resp: 48604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.6 | 0.0 | 45.9 |
| 176 | 18.5 | 0.0 | 50.4 |

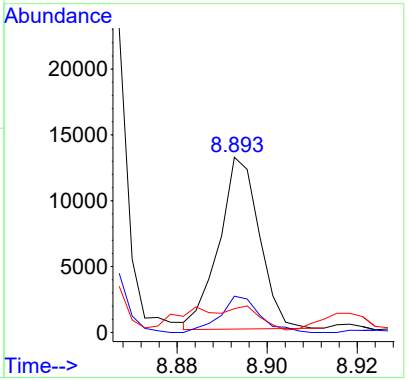


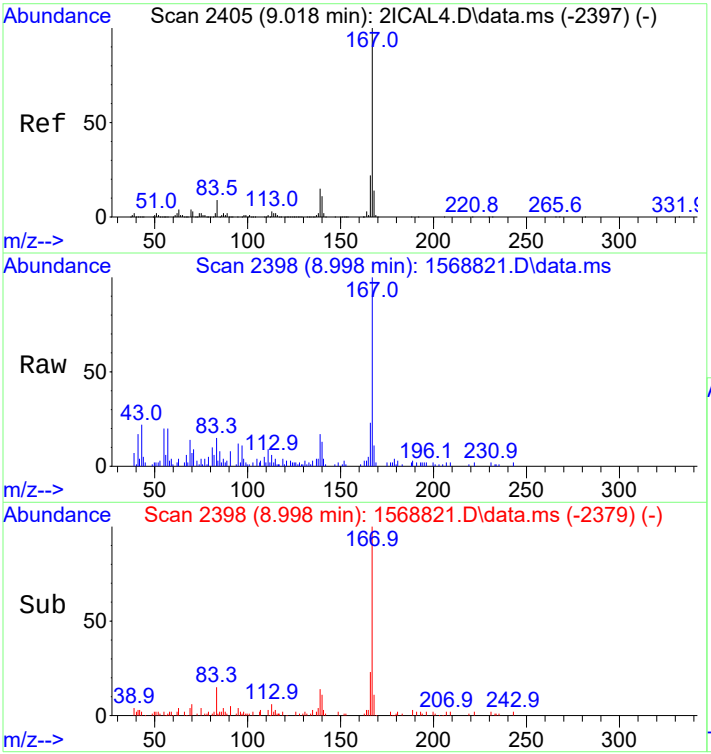




#71
Anthracene
Concen: 0.23 ug/mL
RT: 8.893 min Scan# 2361
Delta R.T. -0.006 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:178 Resp: 8128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 21.2 | 0.0 | 49.5 |
| 179 | 4.8 | 0.0 | 45.9 |

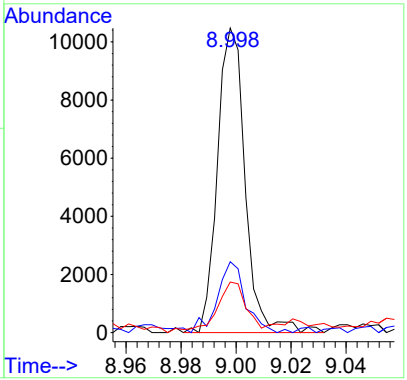


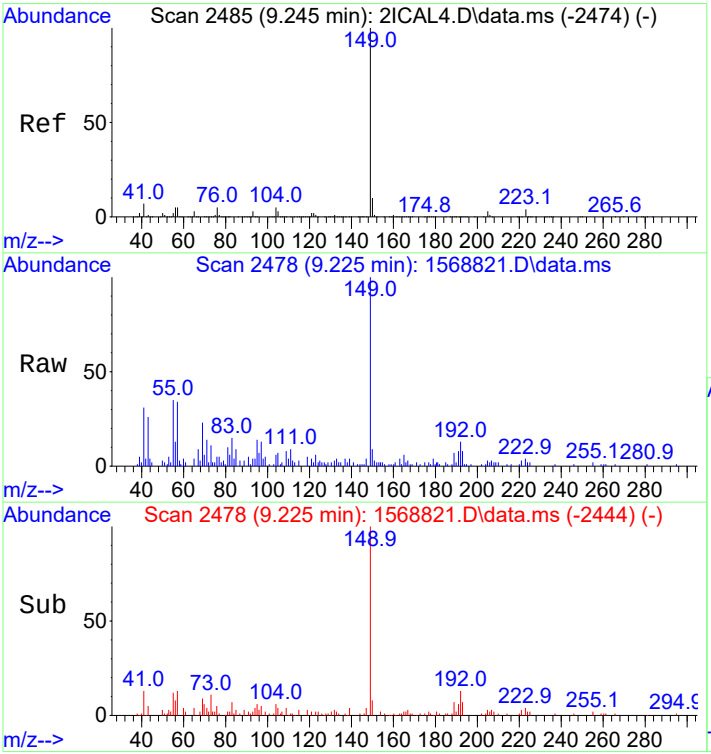



#72
Carbazole
Concen: 0.24 ug/mL
RT: 8.998 min Scan# 2398
Delta R.T. -0.006 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:167 Resp: 7354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.2 | 0.0 | 52.1 |
| 139 | 15.6 | 0.0 | 44.7 |

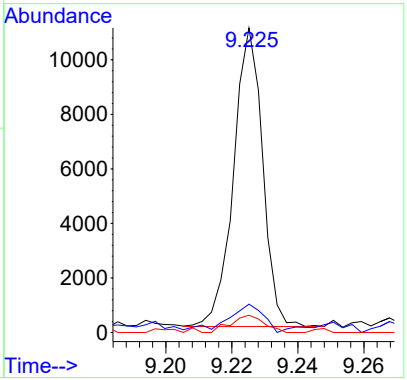


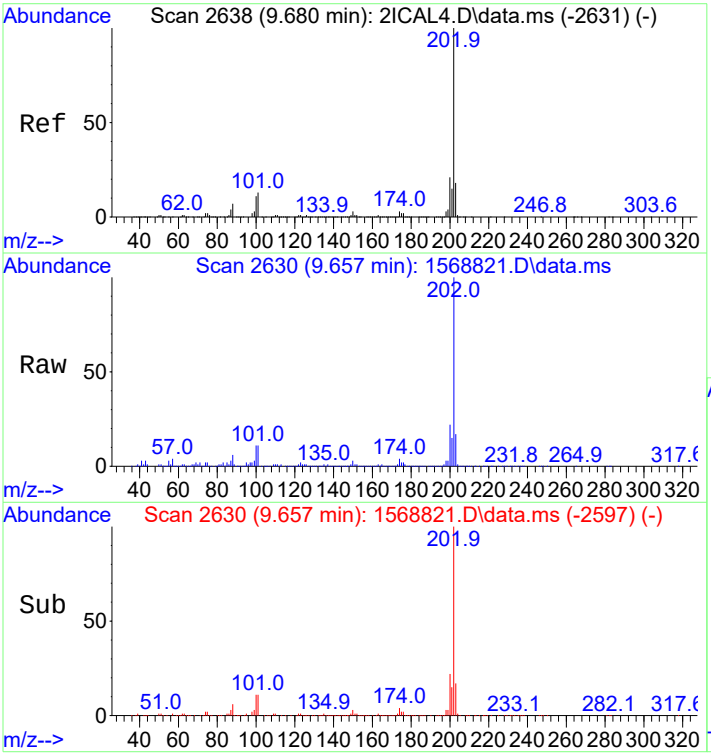




#73
Dinbtylphthal
Concen: 0.16 ug/mL
RT: 9.225 min Scan# 2478
Delta R.T. -0.003 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:149 Resp: 6706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 8.6 | 0.0 | 39.7 |
| 104 | 5.8 | 0.0 | 35.4 |

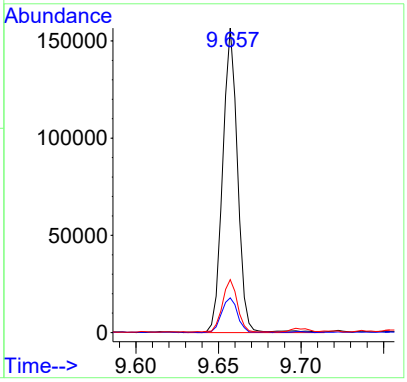


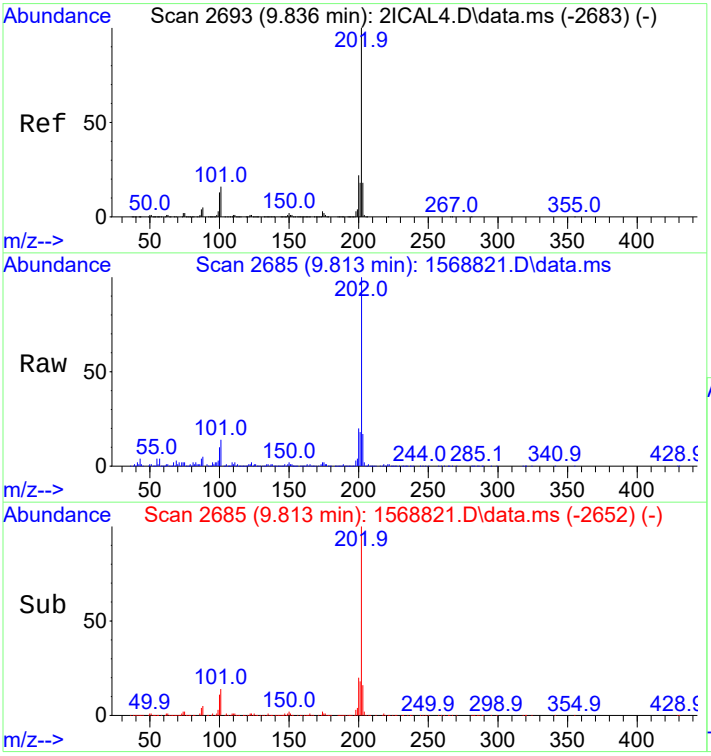



#74
Fluoranthene
Concen: 2.67 ug/mL
RT: 9.657 min Scan# 2630
Delta R.T. -0.006 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:202 Resp: 98583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.2 | 0.0 | 43.0 |
| 203 | 17.1 | 0.0 | 48.2 |

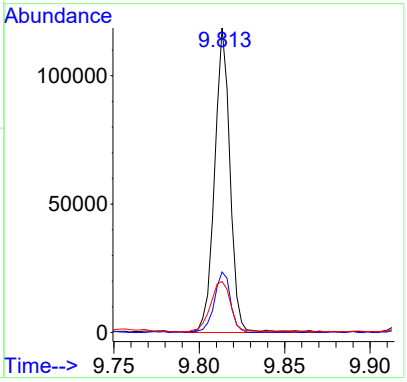


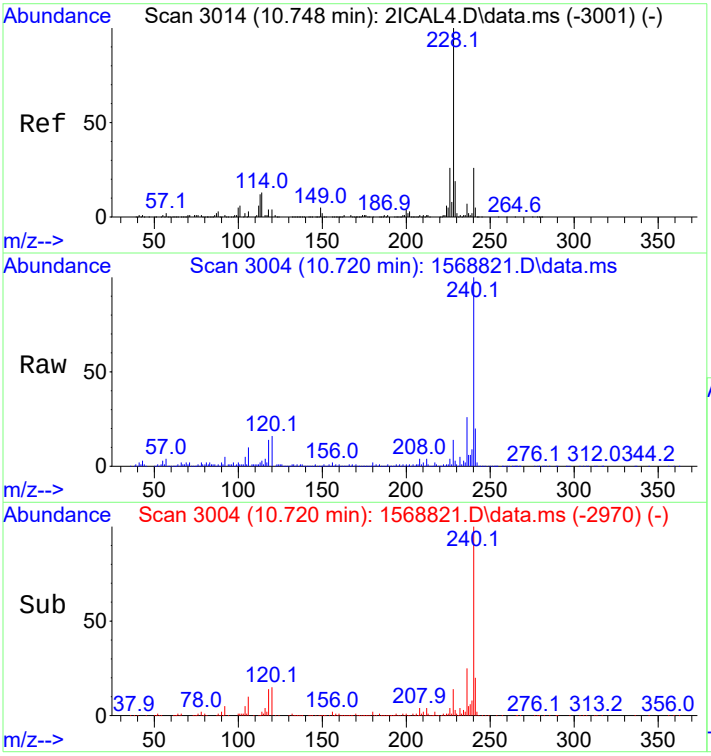




#77
Pyrene
Concen: 1.87 ug/mL
RT: 9.813 min Scan# 2685
Delta R.T. -0.006 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:202 Resp: 74910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 19.7 | 0.0 | 52.2 |
| 203 | 16.4 | 0.0 | 48.2 |

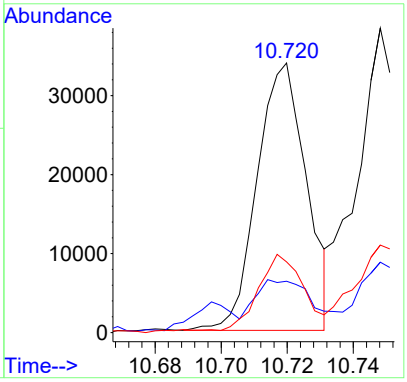


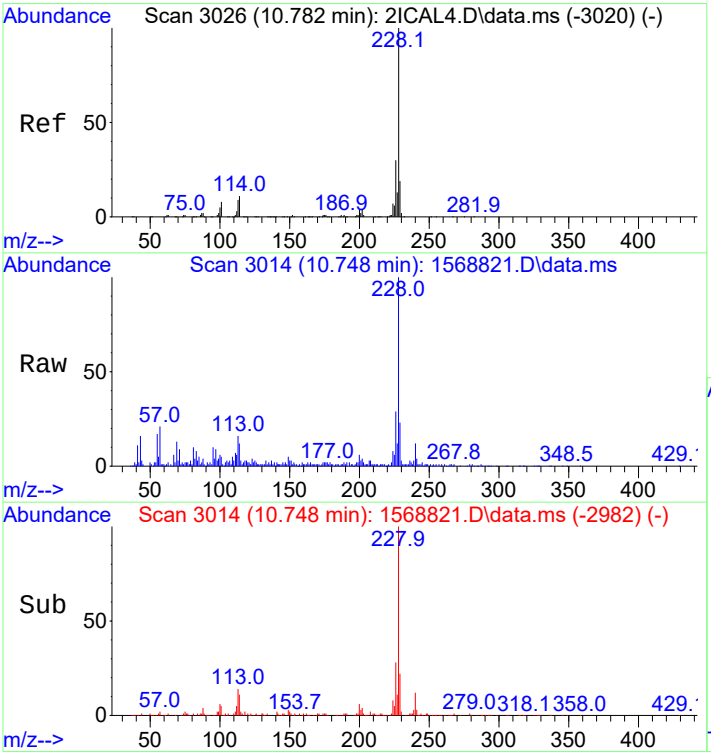



#82
B[a]anthracen
Concen: 0.92 ug/mL
RT: 10.720 min Scan# 3004
Delta R.T. -0.003 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:228 Resp: 35143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 15.4 | 0.0 | 49.4 |
| 226 | 24.6 | 0.0 | 56.5 |

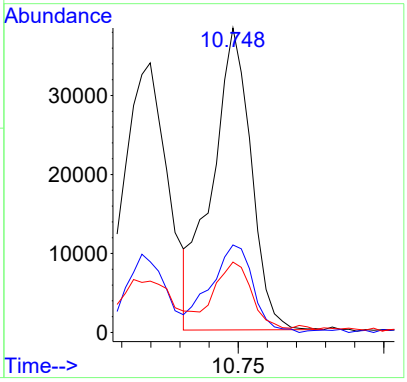


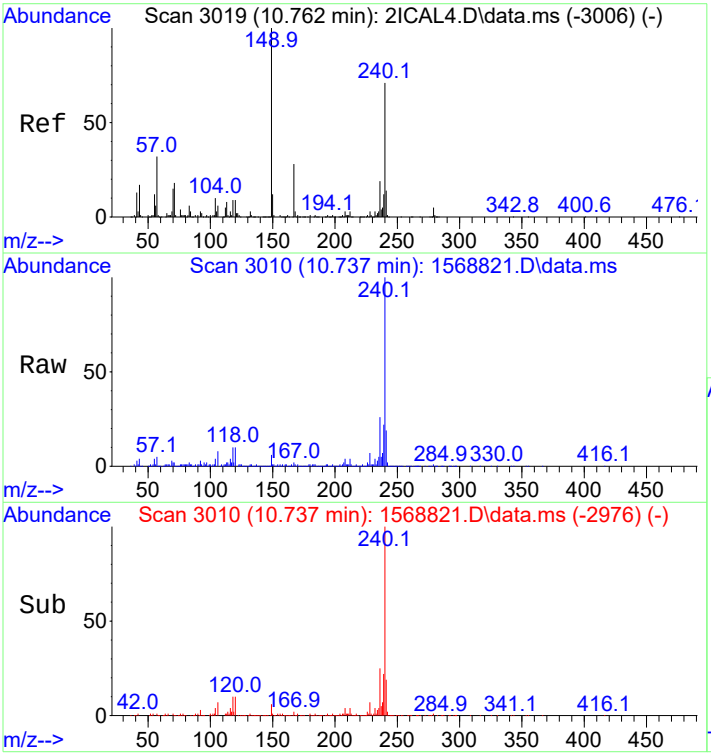




#83
Chrysene
Concen: 1.00 ug/mL
RT: 10.748 min Scan# 3014
Delta R.T. -0.008 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:228 Resp: 35661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.2 | 0.0 | 59.9 |
| 229 | 21.8 | 0.0 | 49.5 |

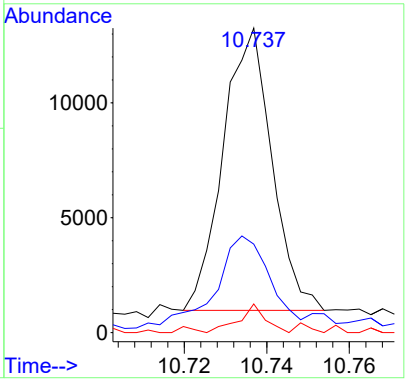


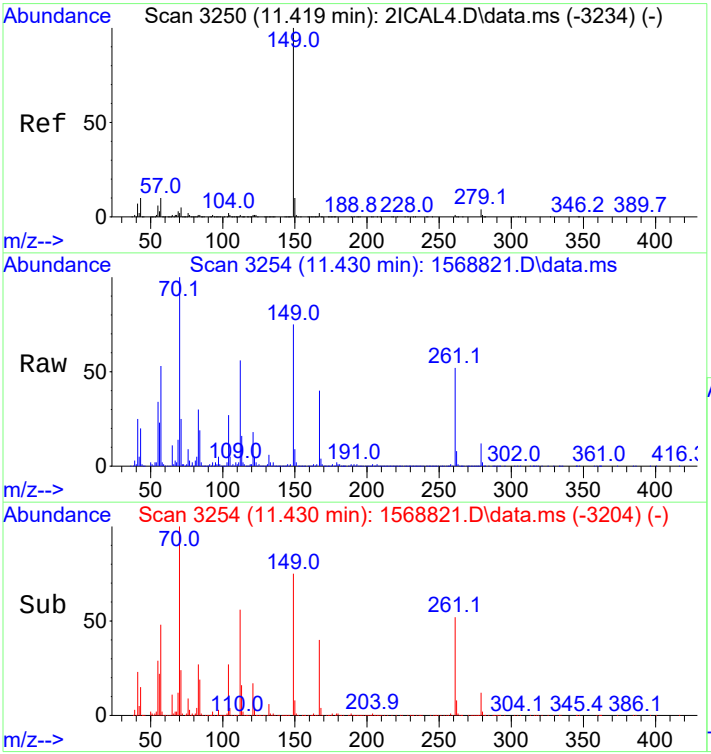



#84
bis2Ethlhxlph
Concen: 0.35 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. -0.003 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:149 Resp: 10088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.7 | 0.0 | 57.9 |
| 279 | 10.1 | 0.0 | 34.9 |

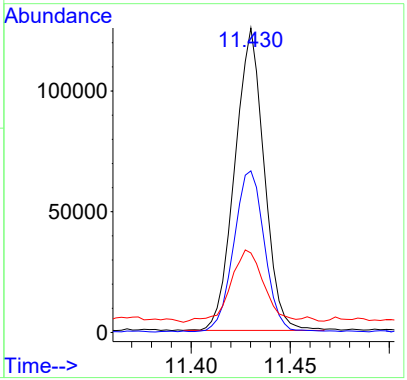


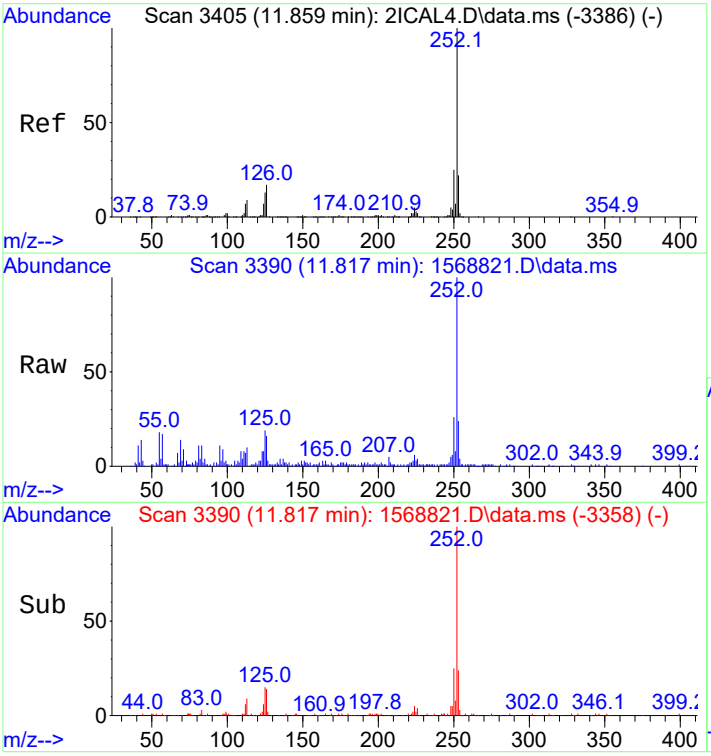




#85
Dinoctylphthl
Concen: 2.93 ug/mL
RT: 11.430 min Scan# 3254
Delta R.T. 0.043 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:149 Resp: 129273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 53.0 | 0.0 | 31.6# |
| 43 | 22.9 | 0.0 | 39.9 |

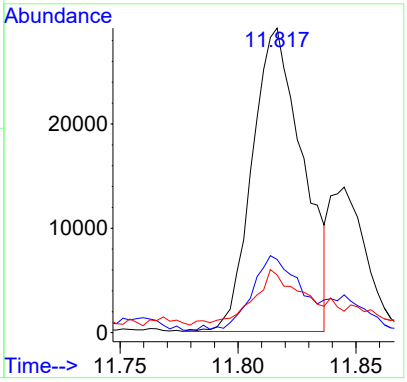


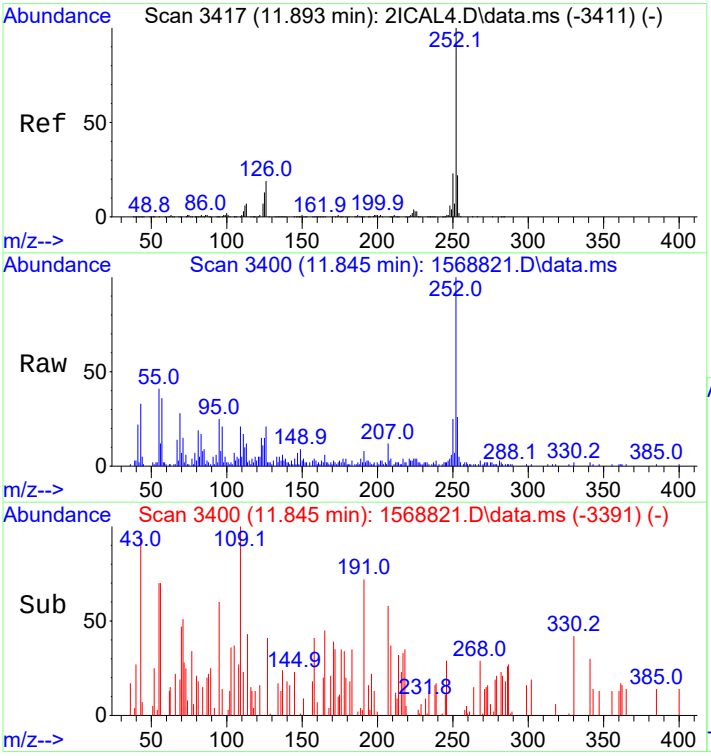



#87
B[b]fluoranth
Concen: 1.29 ug/mL
RT: 11.817 min Scan# 3390
Delta R.T. -0.008 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:252 Resp: 43397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.3 | 0.0 | 52.3 |
| 125 | 15.8 | 0.0 | 43.2 |

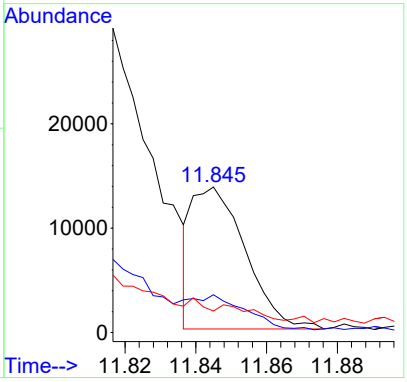


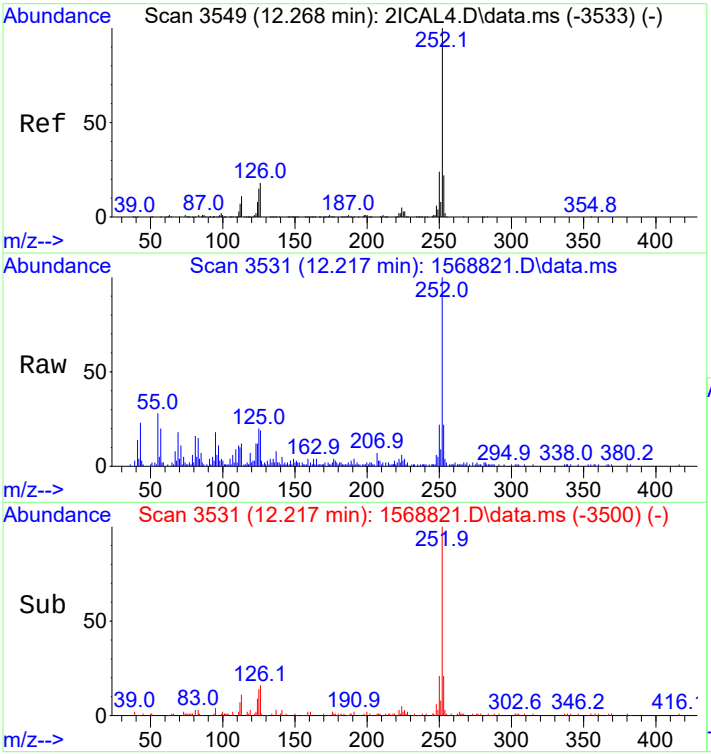




#88
B[k]fluoranth
Concen: 0.43 ug/mL
RT: 11.845 min Scan# 3400
Delta R.T. -0.014 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:252 Resp: 14285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.6 | 0.0 | 52.0 |
| 125 | 5.5 | 0.0 | 43.3 |

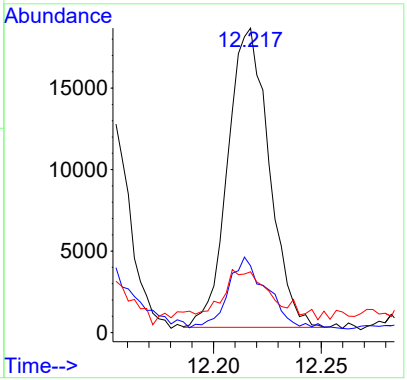


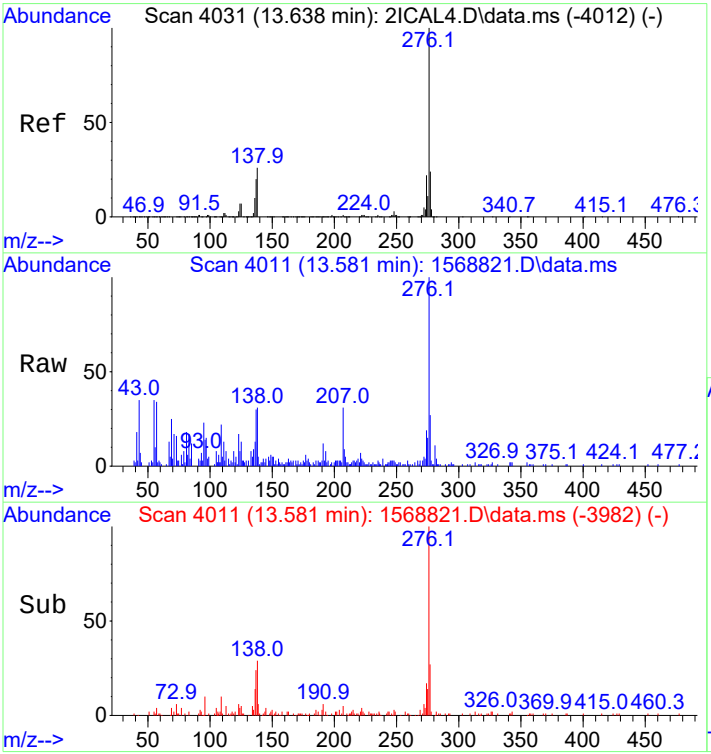



#89
Benz[a]pyrene
Concen: 0.80 ug/mL
RT: 12.217 min Scan# 3531
Delta R.T. -0.011 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:252 Resp: 24593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 19.6 | 0.0 | 52.3 |
| 125 | 13.5 | 0.0 | 45.1 |

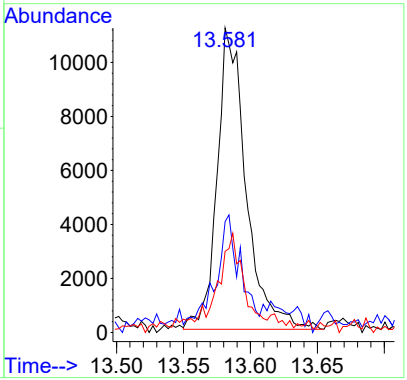


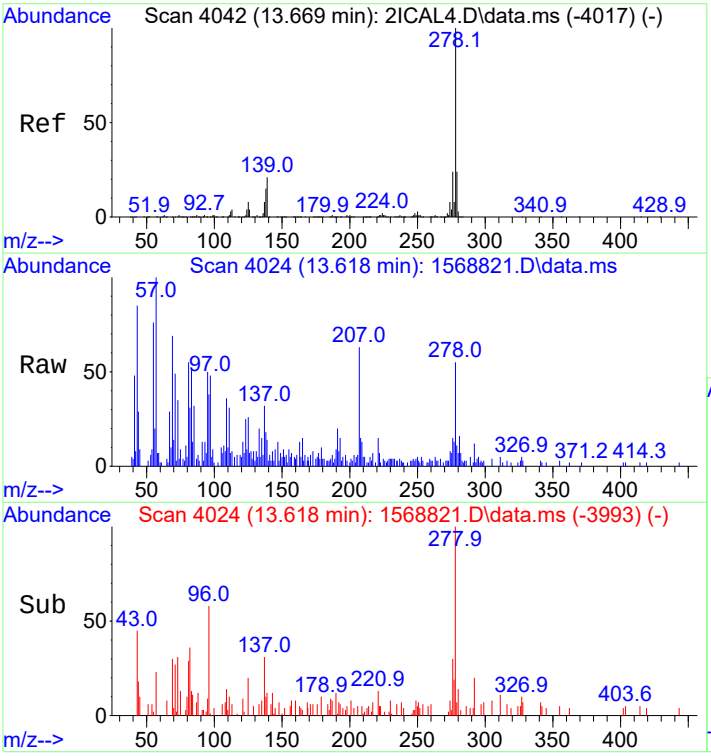




#90
Indeno-pyrene
Concen: 0.49 ug/mL
RT: 13.581 min Scan# 4011
Delta R.T. -0.017 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:276 Resp: 16827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 31.1 | 0.0 | 55.5 |
| 277 | 25.3 | 0.0 | 54.0 |

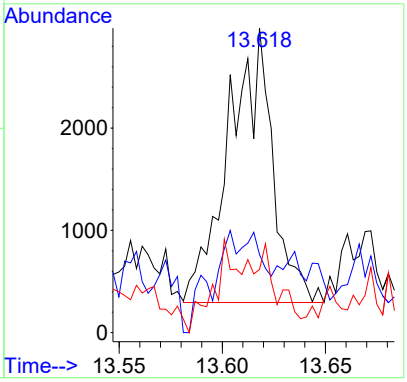


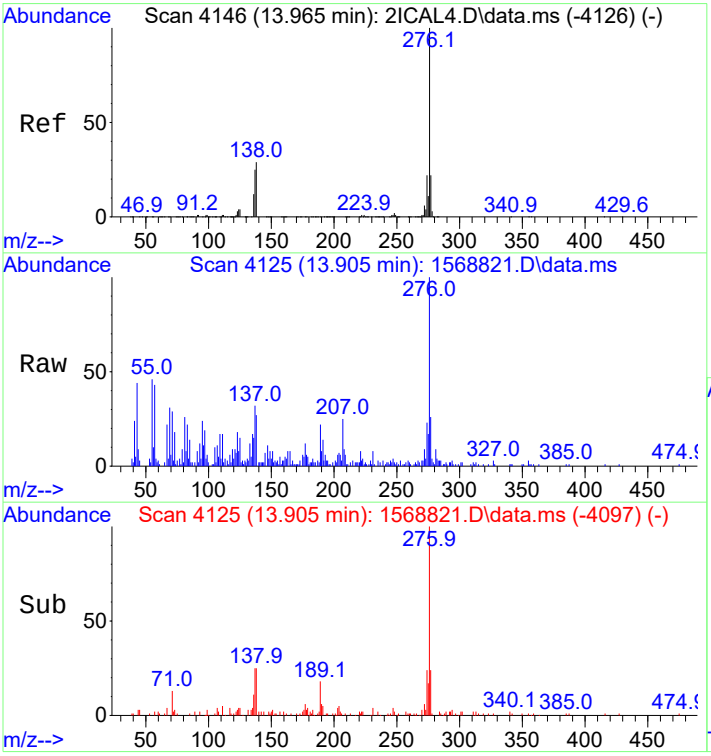



#91
Dib[ah]anthr
Concen: 0.14 ug/mL
RT: 13.618 min Scan# 4024
Delta R.T. -0.011 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:278 Resp: 3983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 35.5 | 0.0 | 50.9 |
| 279 | 13.1 | 0.0 | 54.4 |

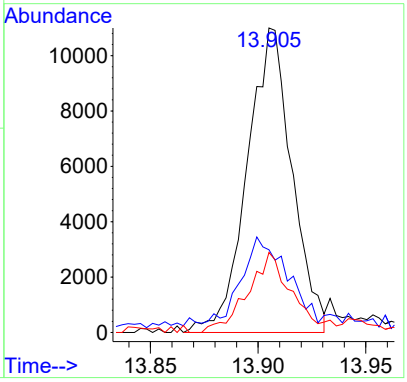



#92
B[ghi]perylen
Concen: 0.59 ug/mL
RT: 13.905 min Scan# 4125
Delta R.T. -0.020 min
Lab File: 1568821.D
Acq: 10 Apr 2025 16:55

Tgt Ion:276 Resp: 15894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.0 | 0.0 | 59.0 |
| 277 | 24.0 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568839.D Vial: 23
Acq On : 10 Apr 2025 17:18 Operator: ALD
Sample : 290730,1568839, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 17:35:05 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.329 | 152 | 171935 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.020 | 136 | 847719 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.796 | 164 | 474775 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.850 | 188 | 694336 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.737 | 240 | 589595 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.305 | 264 | 562541 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.104 | 112 | 329319 | 79.55 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 79.55% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 421694 | 84.75 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 84.75% | | | |
| 22) SURRNitrbenzened5 | 5.011 | 82 | 184788 | 80.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 80.00% | | | |
| 44) SURR2Flbiphenyl | 7.210 | 172 | 472510 | 83.42 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 83.42% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 112050 | 88.17 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 88.17% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 528328 | 91.90 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 91.90% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.266 | 74 | 471 | 0.0707 | ug/mL# | 1 |
| 3) Pyridine | 2.607 | 79 | 8058 | 0.6774 | ug/mL | 89 |
| 13) Benzyl alcoho | 4.491 | 108 | 964 | 0.1304 | ug/mL# | 62 |
| 14) bis2clispreth | 4.630 | 45 | 3184 | 0.1610 | ug/mL | 70 |
| 17) Acetophenone | 4.815 | 105 | 1798 | 0.1118 | ug/mL# | 75 |
| 26) 24Dimthpheno | 5.679 | 122 | 6983 | 0.6129 | ug/mL# | 6 |
| 30) Benzoic acid | 5.679 | 122 | 8858 | 4.1712 | ug/mL | 97 |
| 31) Naphthalene | 6.043 | 128 | 27939 | 0.7146 | ug/mL | 97 |
| 32) 4-Cl-aniline | 6.077 | 127 | 250 | 0.0164 | ug/mL# | 48 |
| 36) 4Cl3methylphe | 6.702 | 107 | 405 | 0.0377 | ug/mL# | 18 |
| 37) 2Methylnaphth | 6.838 | 142 | 16208 | 0.6859 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.935 | 142 | 13864 | 0.5673 | ug/mL | 98 |
| 46) 2Nitroaniline | 7.429 | 65 | 1590 | 0.4873 | ug/mL# | 12 |
| 47) Acnaphthylene | 7.674 | 152 | 8233 | 0.2143 | ug/mL | 95 |
| 50) Acenaphthene | 7.821 | 154 | 133655 | 5.8528 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.779 | 138 | 2801 | 0.6506 | ug/mL# | 9 |
| 53) Dibenzofuran | 7.963 | 168 | 71864 | 2.1792 | ug/mL | 96 |
| 54) 24Dinitrotolu | 7.966 | 165 | 557 | 0.0668 | ug/mL# | 1 |
| 55) 4-Nitrophenol | 7.924 | 65 | 689 | 1.3983 | ug/mL# | 71 |
| 58) Fluorene | 8.233 | 166 | 83550 | 3.3142 | ug/mL | 97 |
| 60) Diethylphthal | 8.159 | 149 | 1273 | 0.0456 | ug/mL | 93 |
| 61) 4Nitroaniline | 8.233 | 138 | 1494 | 0.5719 | ug/mL# | 31 |
| 65) Ntrsdiphlam&Diphlam | 8.279 | 169 | 5299 | 0.2960 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.344 | 182 | 21591 | 3.3823 | ug/mL# | 1 |
| 69) Pentaclphenol | 8.725 | 266 | 778 | 3.4967 | ug/mL | 92 |
| 70) Phenanthrene | 8.867 | 178 | 1500700 | 44.3631 | ug/mL | 98 |
| 71) Anthracene | 8.895 | 178 | 275708 | 8.0108 | ug/mL | 95 |
| 72) Carbazole | 9.000 | 167 | 300960 | 10.2692 | ug/mL | 98 |
| 73) Dinbtylphthal | 9.228 | 149 | 5051 | 0.1232 | ug/mL | 75 |
| 74) Fluoranthene | 9.668 | 202 | 2323379 | 65.0433 | ug/mL | 96 |
| 76) Benzidine | 9.785 | 184 | 2074 | 0.0441 | ug/mL | 83 |
| 77) Pyrene | 9.825 | 202 | 1850499 | 49.4126 | ug/mL | 98 |
| 81) 33Diclbnzidin | 10.771 | 252 | 3931 | 0.2558 | ug/mL# | 1 |
| 82) B[a]anthracen | 10.725 | 228 | 962339 | 27.1104 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568839.D Vial: 23
Acq On : 10 Apr 2025 17:18 Operator: ALD
Sample : 290730,1568839, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 17:35:05 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

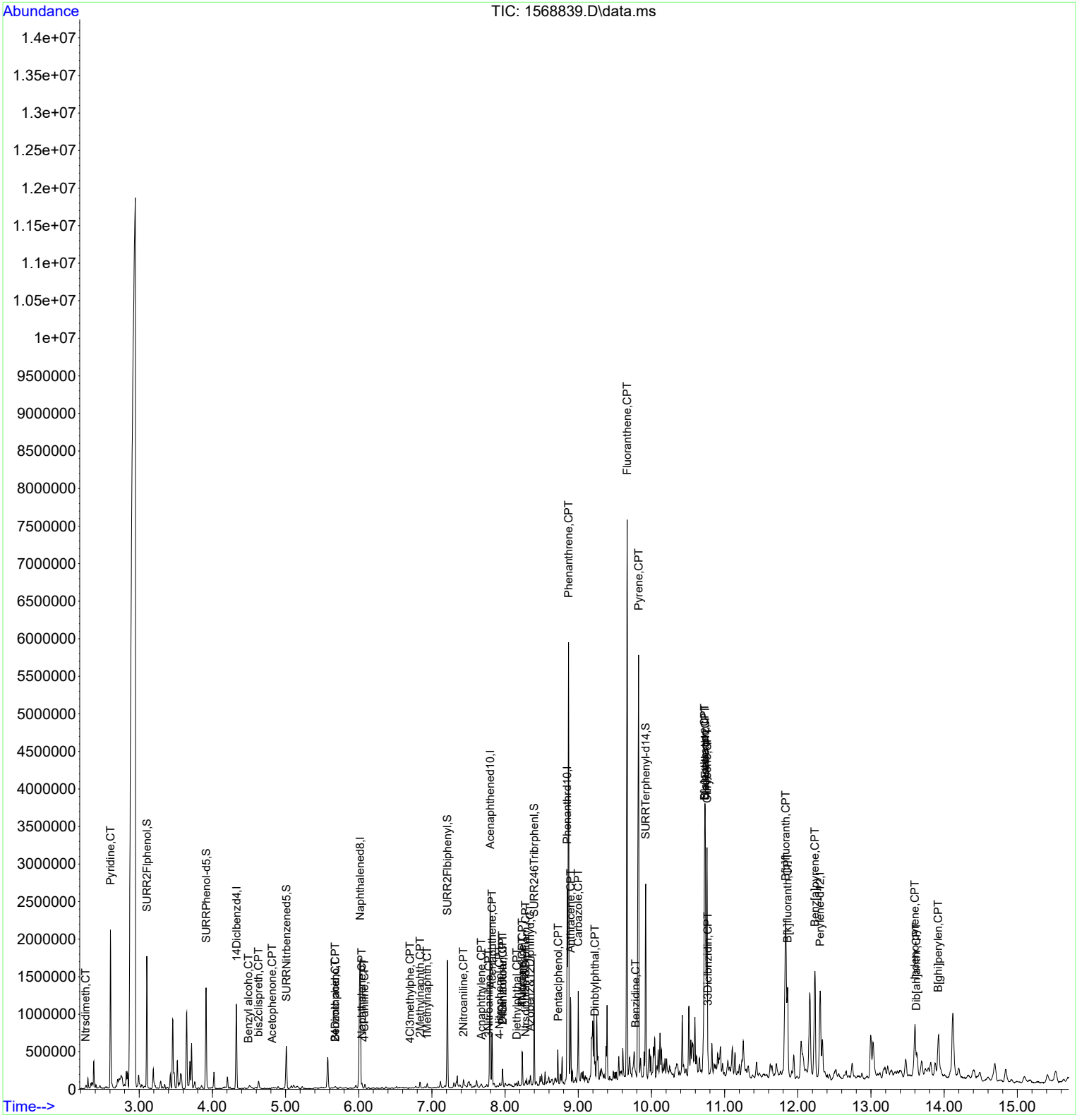
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 83) Chrysene | 10.759 | 228 | 987548 | 29.6642 | ug/mL | 97 |
| 84) bis2Ethlhxlph | 10.737 | 149 | 12245 | 0.4533 | ug/mL | 90 |
| 87) B[b]fluoranth | 11.836 | 252 | 1218380 | 40.8869 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.862 | 252 | 428908 | 14.3660 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.234 | 252 | 704899 | 25.7223 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.601 | 276 | 368406 | 12.1545 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.618 | 278 | 83028 | 3.3511 | ug/mL | 94 |
| 92) B[ghi]perylen | 13.919 | 276 | 297396 | 12.5234 | ug/mL | 97 |

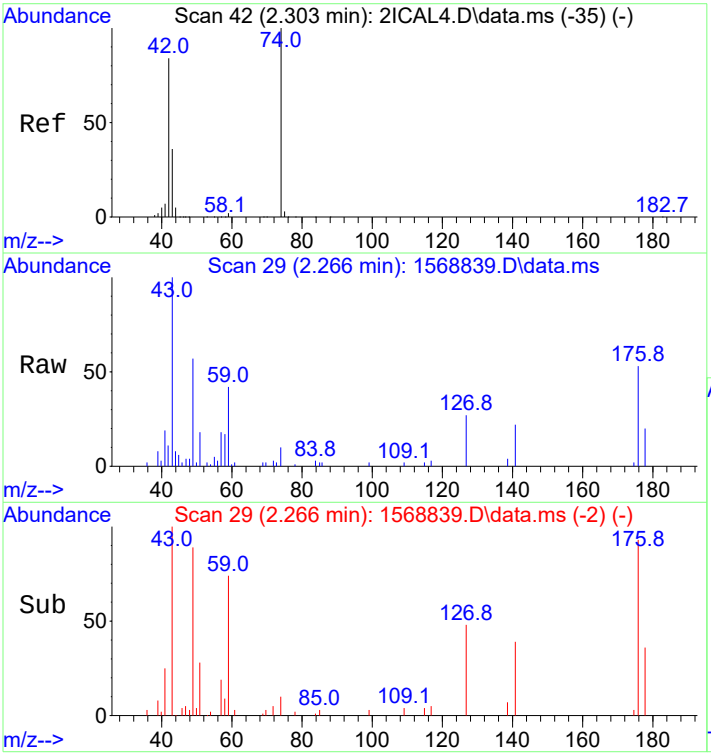
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568839.D Vial: 23
Acq On : 10 Apr 2025 17:18 Operator: ALD
Sample : 290730,1568839, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 17:35:05 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

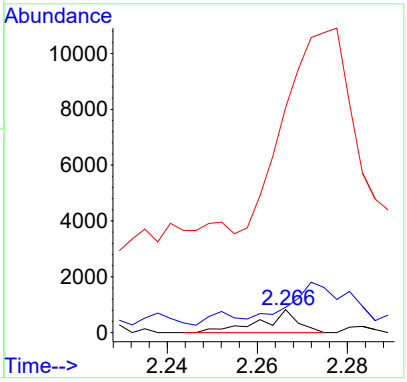


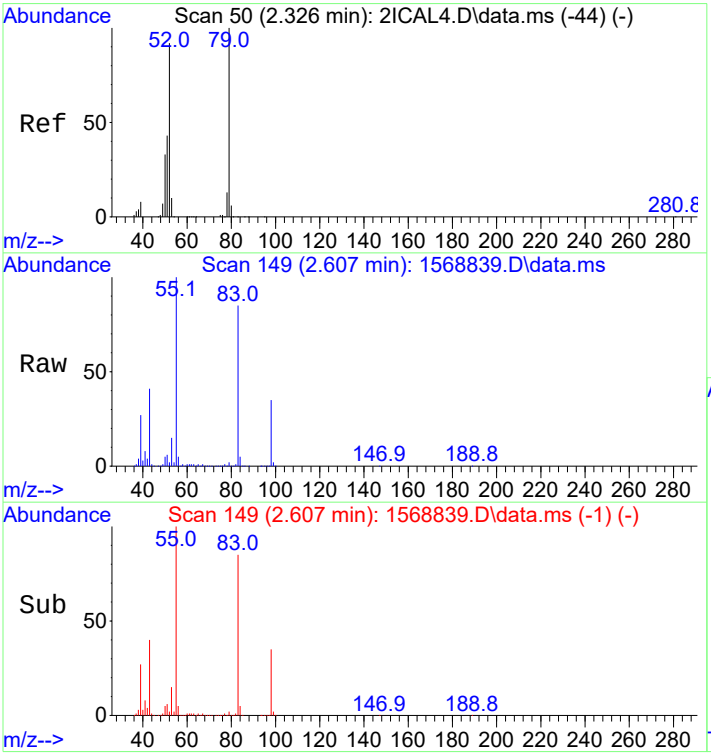



#2
Ntrsdimeth
Concen: 0.07 ug/mL
RT: 2.266 min Scan# 29
Delta R.T. -0.023 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion: 74 Resp: 471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 66.5 | 53.9 | 113.9 |
| 43 | 456.6 | 6.0 | 66.0# |

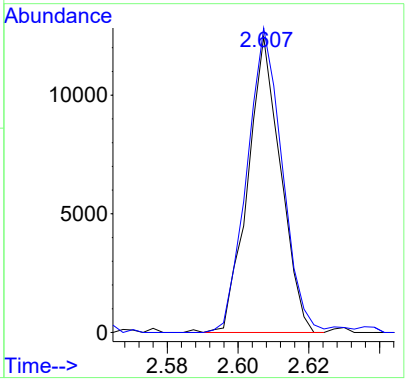


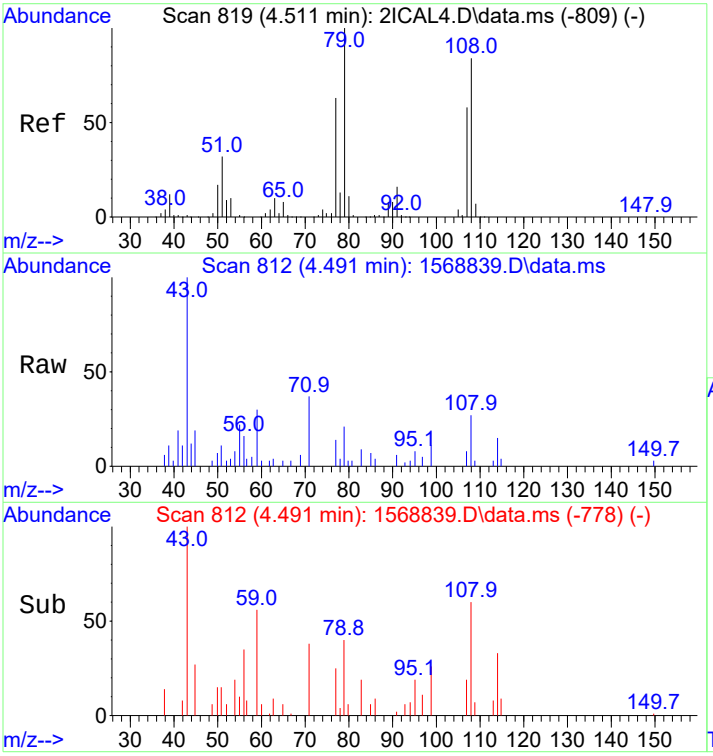




#3
Pyridine
Concen: 0.68 ug/mL
RT: 2.607 min Scan# 149
Delta R.T. 0.298 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion: 79 Resp: 8058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 103.0 | 62.5 | 122.5 |

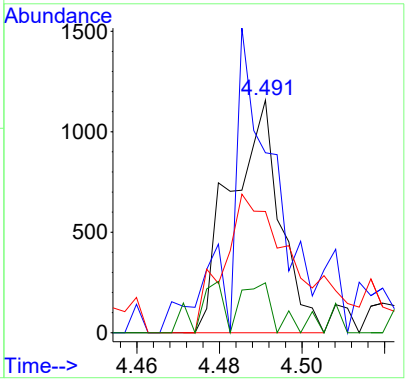


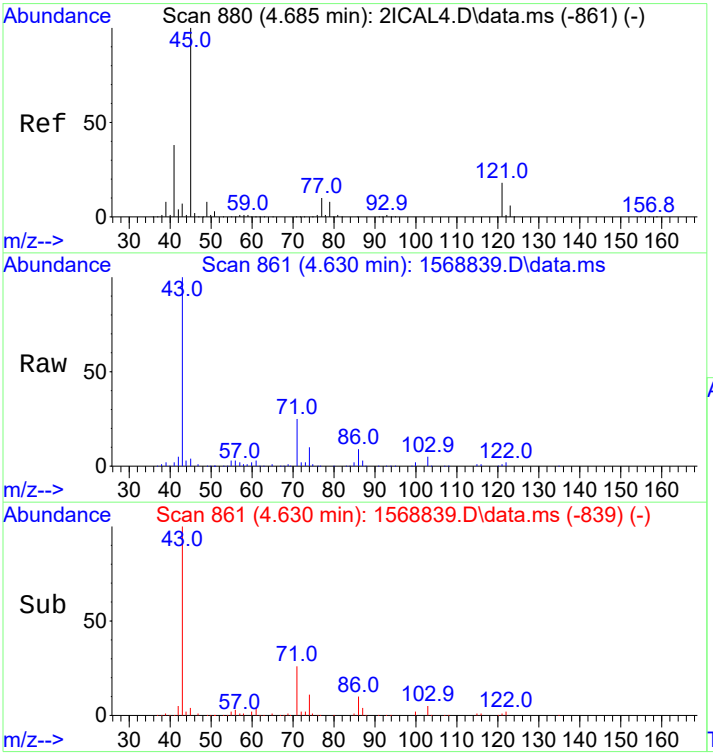



#13
Benzyl alcoho
Concen: 0.13 ug/mL
RT: 4.491 min Scan# 812
Delta R.T. -0.003 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:108 Resp: 964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 79 | 67.6 | 89.6 | 149.6# |
| 77 | 46.5 | 44.8 | 104.8 |
| 91 | 19.1 | 0.0 | 49.0 |

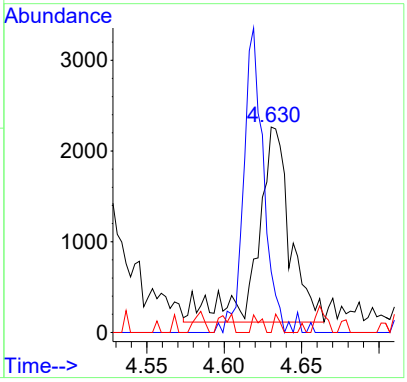


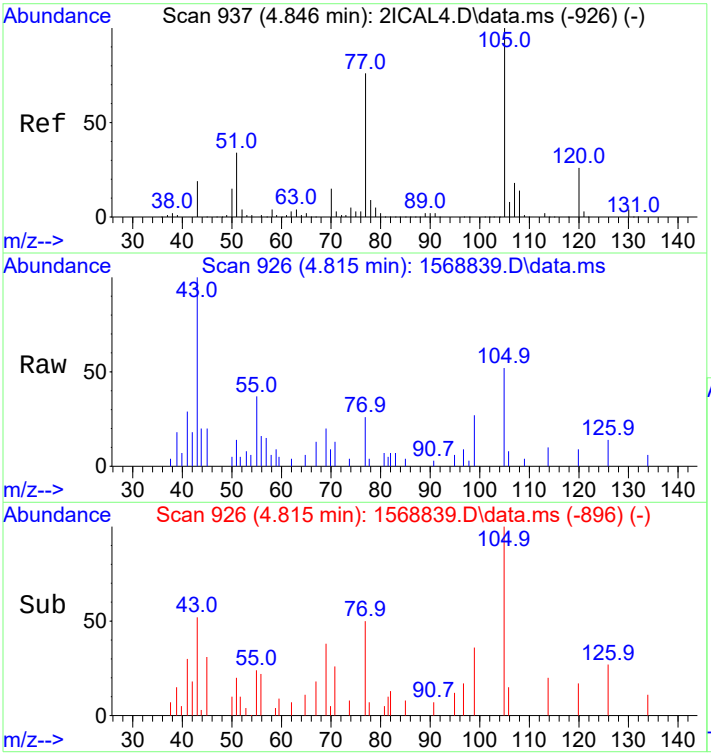




#14
bis2clispreth
Concen: 0.16 ug/mL
RT: 4.630 min Scan# 861
Delta R.T. -0.037 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion: 45 Resp: 3184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 31.2 | 0.0 | 47.5 |
| 77 | 0.0 | 0.0 | 40.1 |

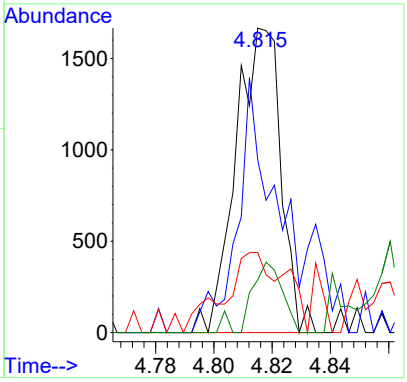


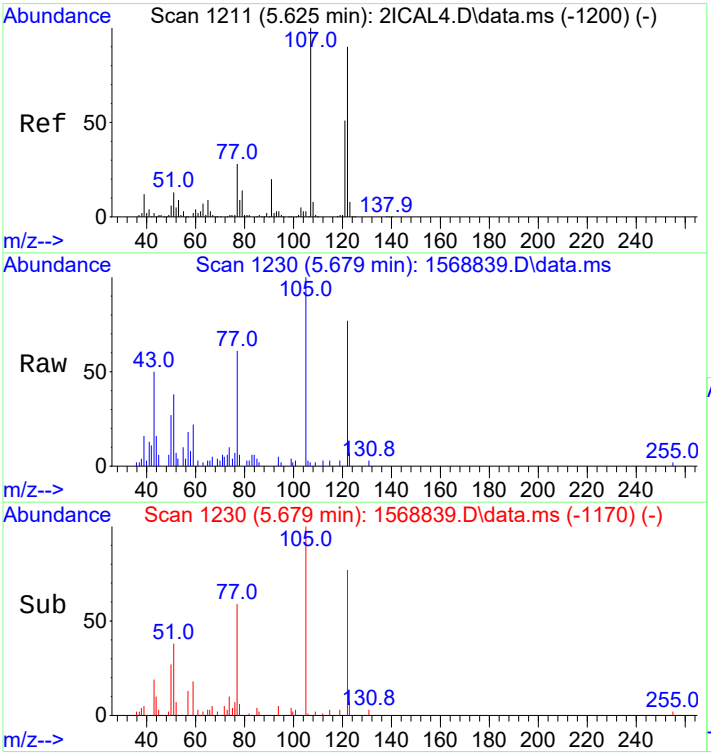



#17
Acetophenone
Concen: 0.11 ug/mL
RT: 4.815 min Scan# 926
Delta R.T. -0.014 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:105 Resp: 1798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 44.7 | 46.3 | 106.3# |
| 51 | 30.7 | 3.7 | 63.7 |
| 120 | 17.3 | 0.0 | 55.6 |

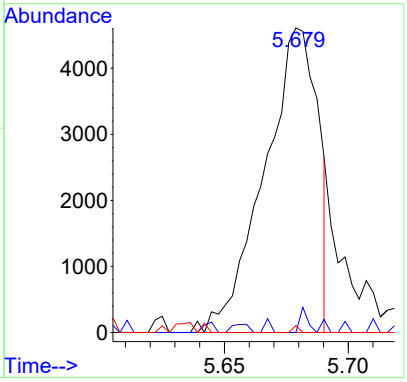


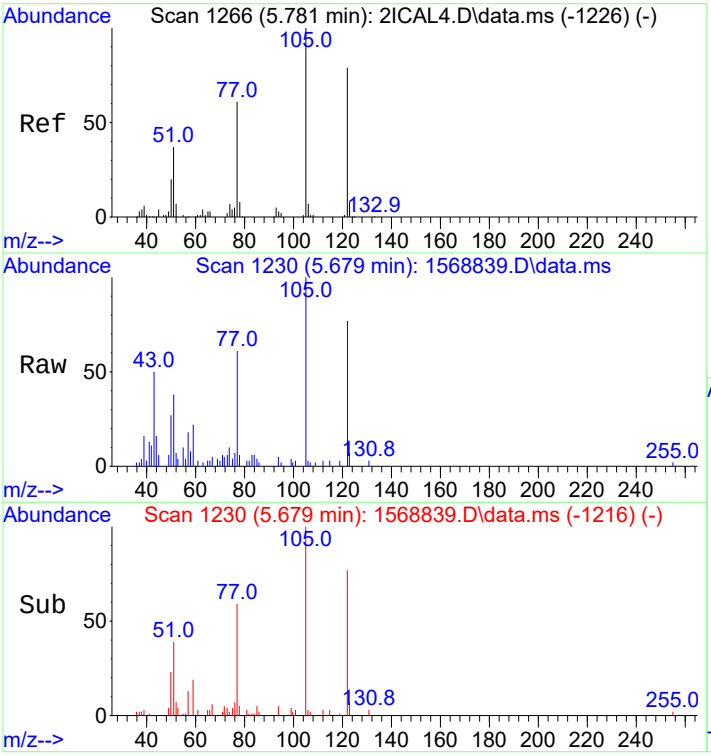




#26
24Dimthpheno
Concen: 0.61 ug/mL
RT: 5.679 min Scan# 1230
Delta R.T. 0.071 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:122 Resp: 6983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 0.0 | 26.8 | 86.8# |
| 107 | 2.1 | 80.8 | 140.8# |

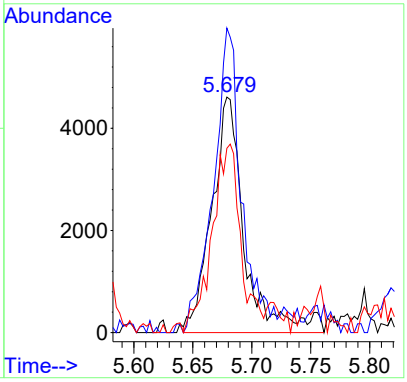


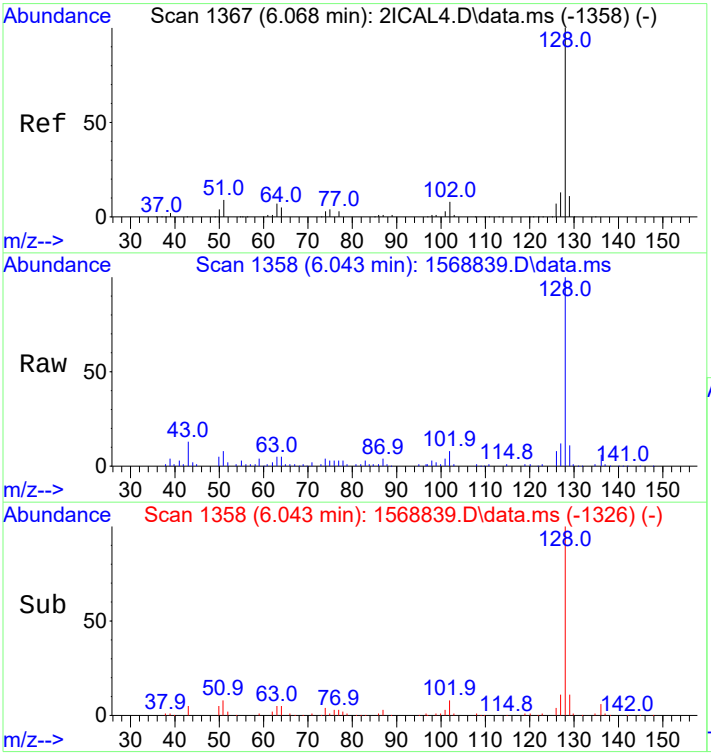



#30
Benzoic acid
Concen: 4.17 ug/mL
RT: 5.679 min Scan# 1230
Delta R.T. -0.091 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:122 Resp: 8858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 129.3 | 96.0 | 156.0 |
| 77 | 78.2 | 46.6 | 106.6 |

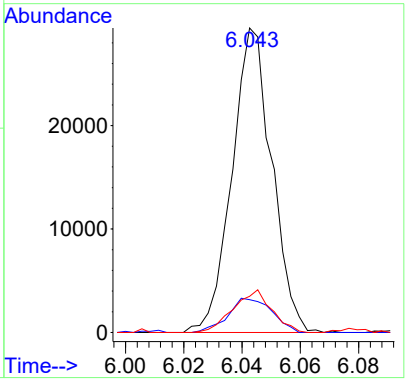


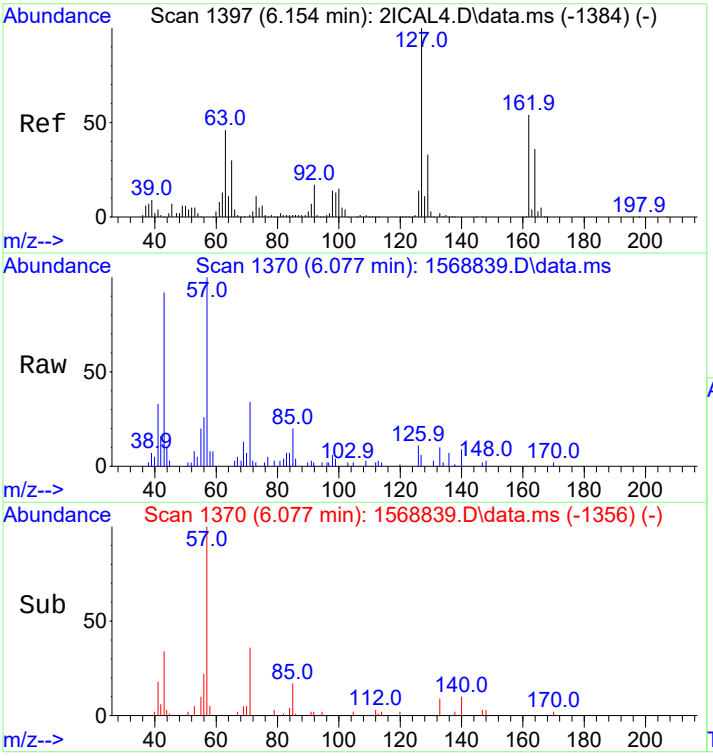




#31
Naphthalene
Concen: 0.71 ug/mL
RT: 6.043 min Scan# 1358
Delta R.T. -0.009 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:128 Resp: 27939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.7 | 0.0 | 41.0 |
| 127 | 11.9 | 0.0 | 43.3 |

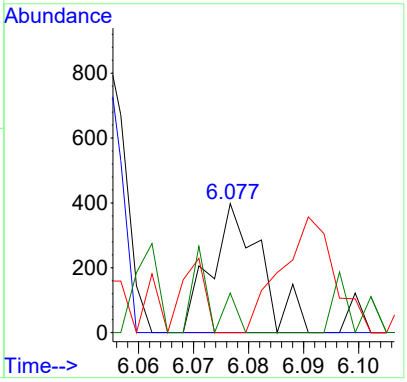


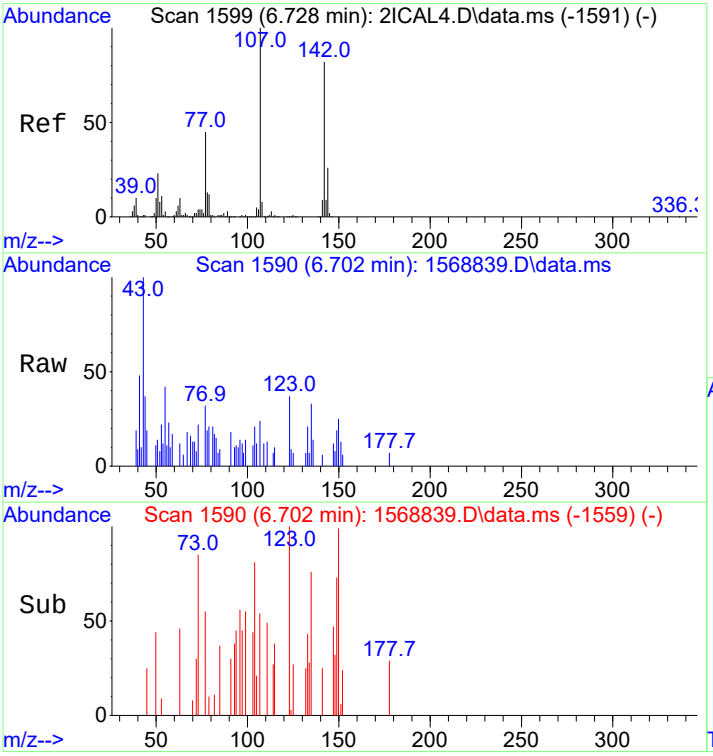



#32
4-Cl-aniline
Concen: 0.02 ug/mL
RT: 6.077 min Scan# 1370
Delta R.T. -0.060 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:127 Resp: 250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 0.0 | 3.1 | 63.1# |
| 65 | 0.0 | 0.2 | 60.2# |
| 92 | 30.7 | 0.0 | 46.7 |

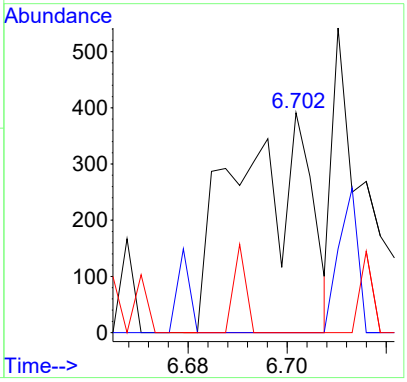


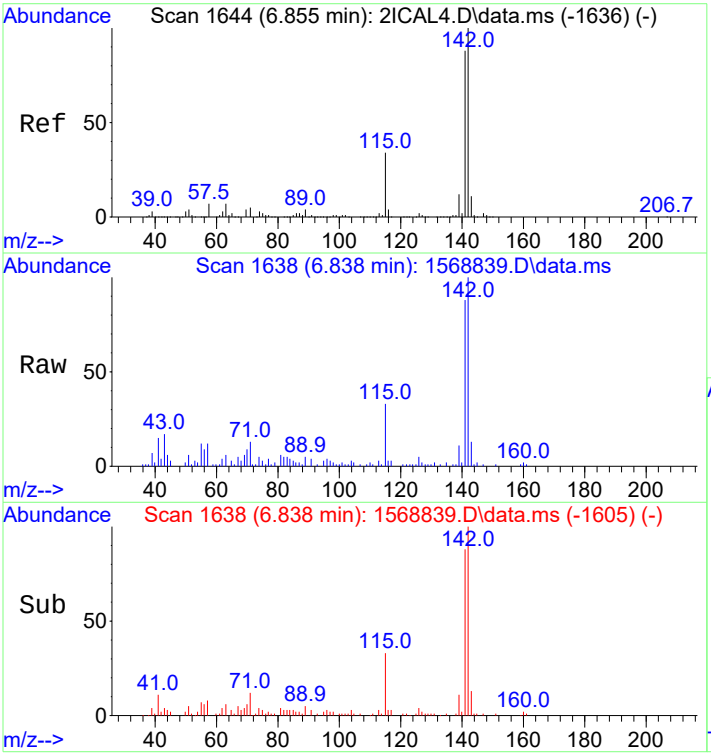




#36
4Cl3methylphe
Concen: 0.04 ug/mL
RT: 6.702 min Scan# 1590
Delta R.T. -0.011 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:107 Resp: 405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 142 | 0.0 | 51.9 | 111.9# |
| 144 | 0.0 | 0.0 | 55.8 |

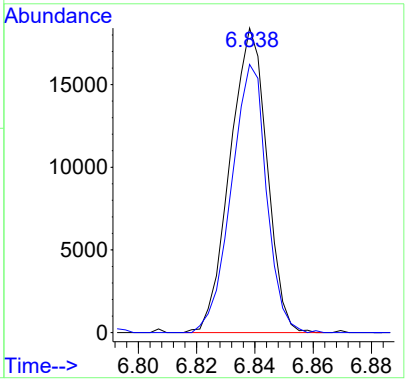


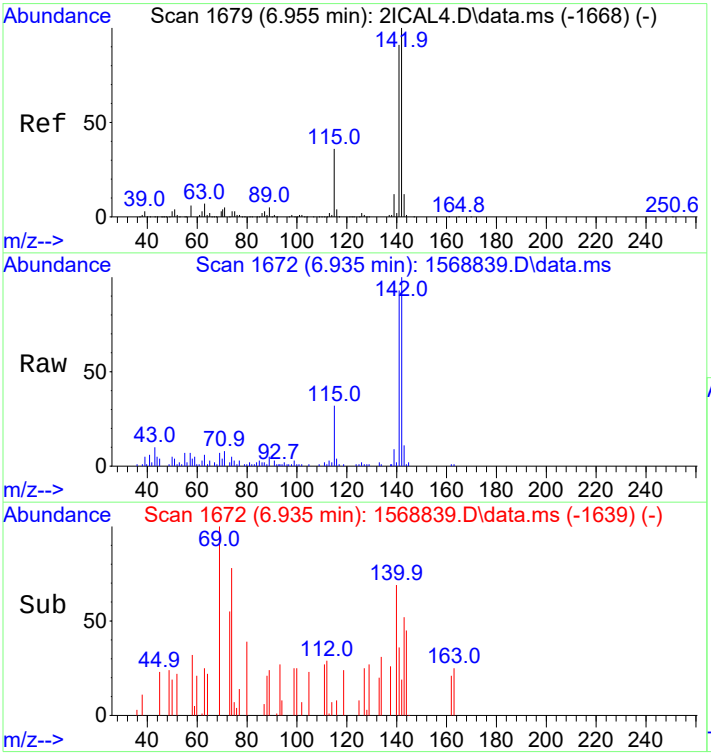



#37
2Methylnaphth
Concen: 0.69 ug/mL
RT: 6.838 min Scan# 1638
Delta R.T. -0.006 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:142 Resp: 16208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.1 | 58.0 | 118.0 |

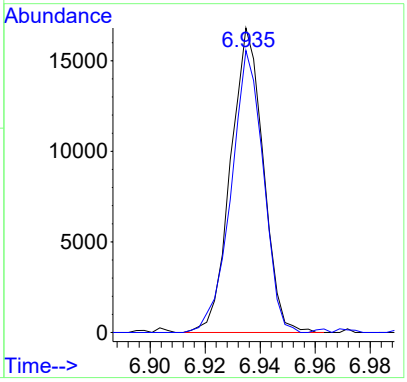


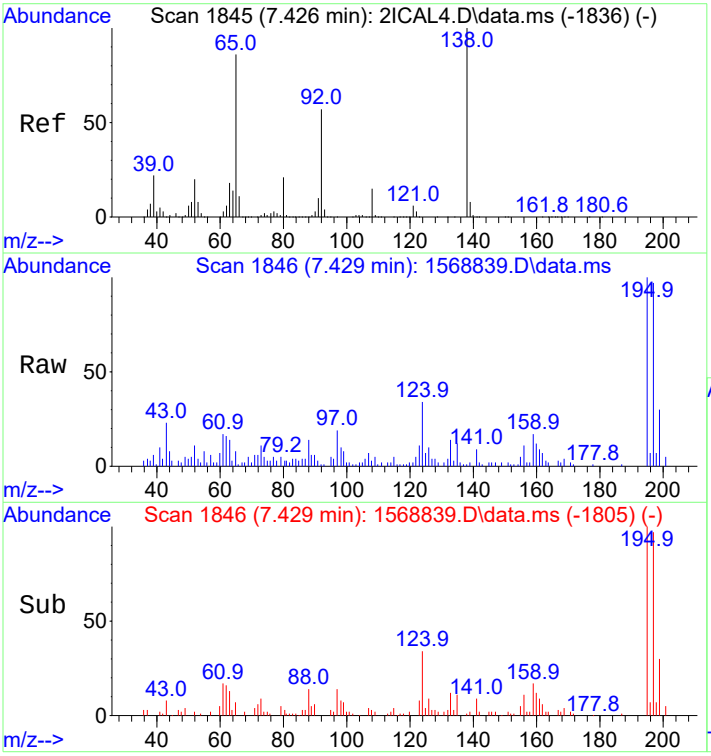




#38
1Methylnaphth
Concen: 0.57 ug/mL
RT: 6.935 min Scan# 1672
Delta R.T. -0.006 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:142 Resp: 13864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.6 | 60.7 | 120.7 |

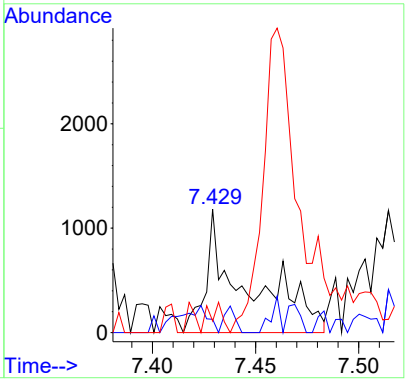


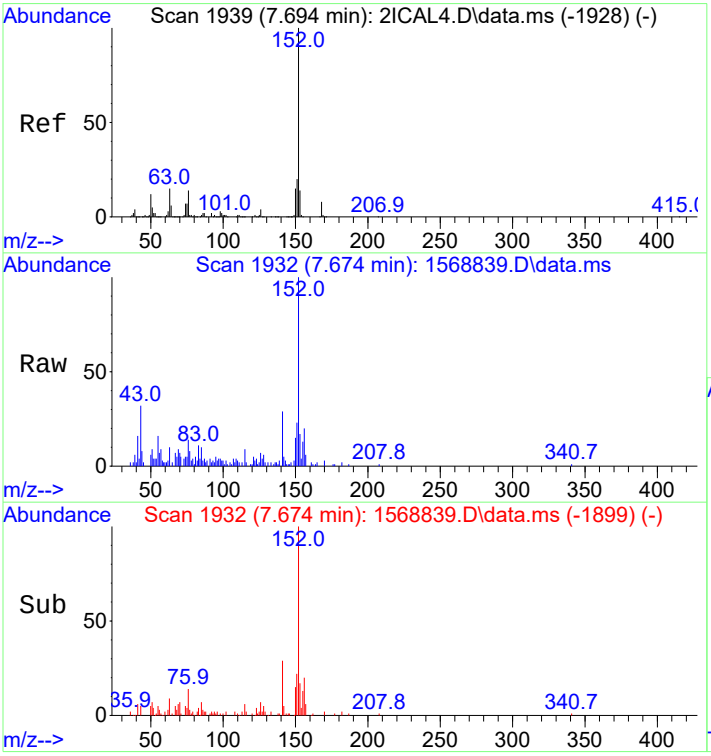



#46
2Nitroaniline
Concen: 0.49 ug/mL
RT: 7.429 min Scan# 1846
Delta R.T. 0.017 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion: 65 Resp: 1590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 10.3 | 36.2 | 96.2# |
| 138 | 9.3 | 85.6 | 145.6# |

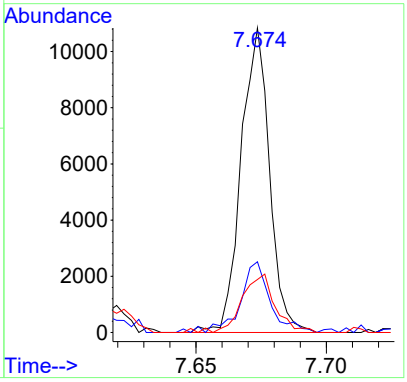


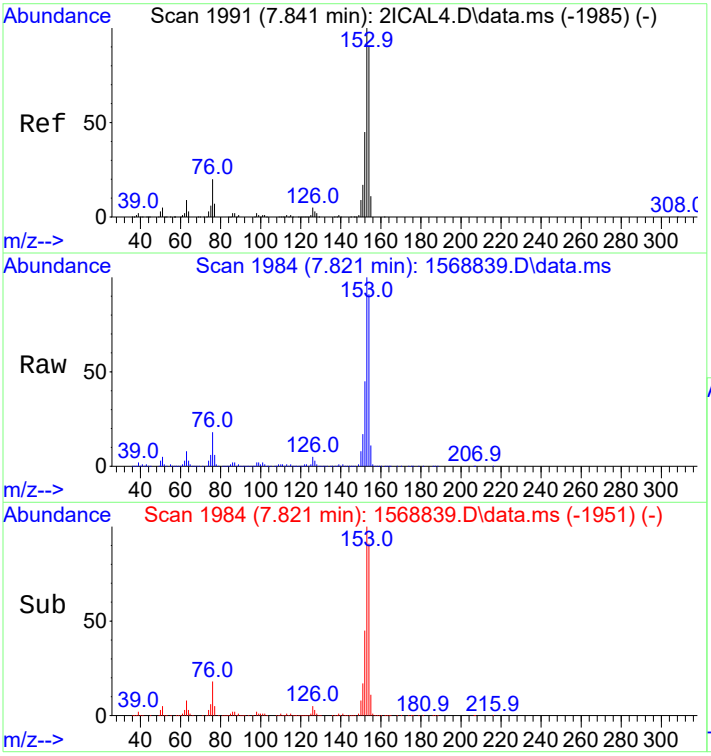




#47
Acnaphthylene
Concen: 0.21 ug/mL
RT: 7.674 min Scan# 1932
Delta R.T. -0.006 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:152 Resp: 8233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.3 | 0.0 | 50.3 |
| 153 | 17.4 | 0.0 | 44.4 |

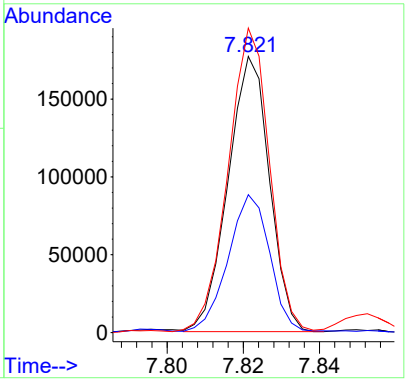


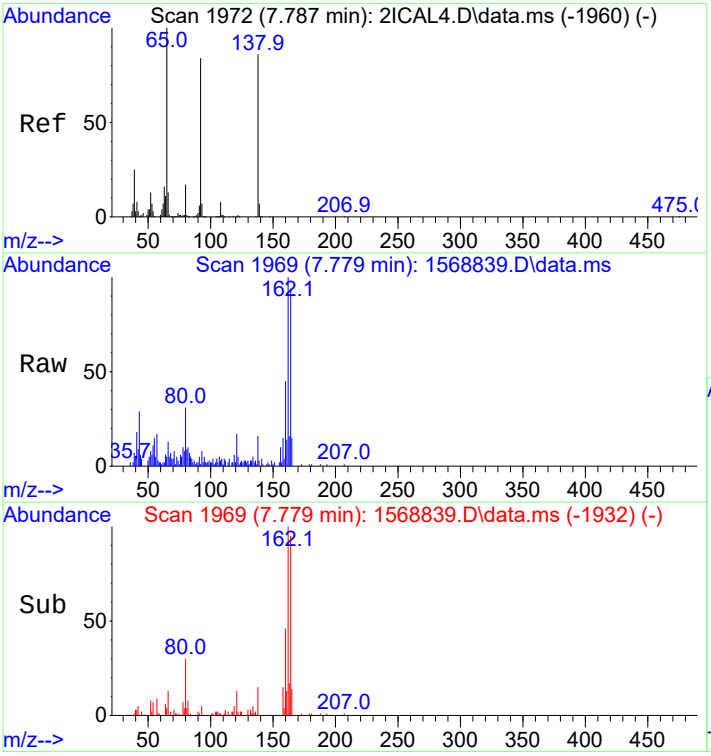



#50
Acenaphthene
Concen: 5.85 ug/mL
RT: 7.821 min Scan# 1984
Delta R.T. -0.006 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:154 Resp: 133655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 49.7 | 20.0 | 80.0 |
| 153 | 109.6 | 80.7 | 140.7 |

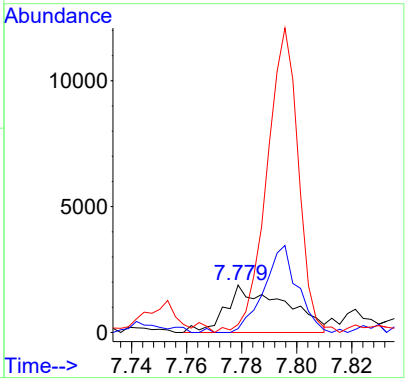


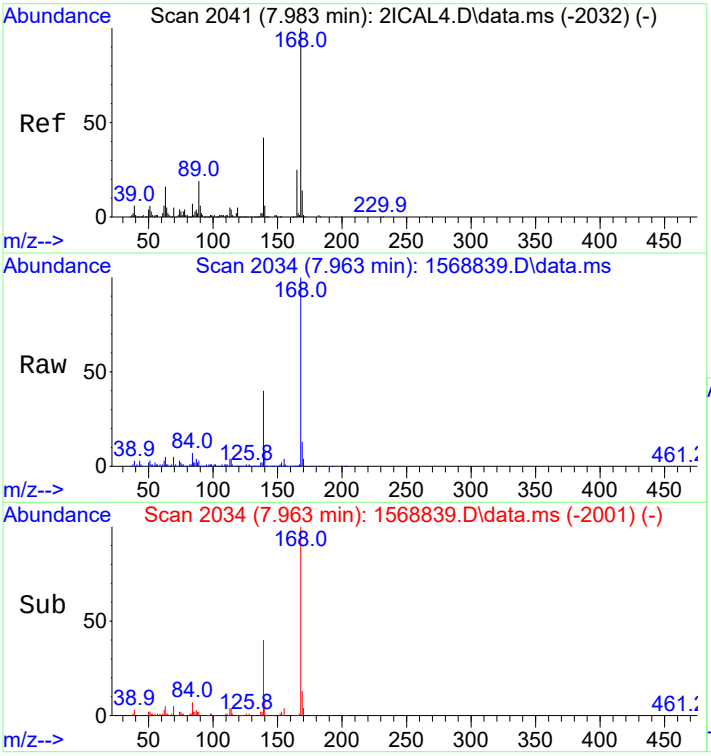




#51
3Nitroaniline
Concen: 0.65 ug/mL
RT: 7.779 min Scan# 1969
Delta R.T. 0.006 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:138 Resp: 2801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 67.7 | 127.7# |
| 108 | 5.7 | 0.0 | 38.9 |

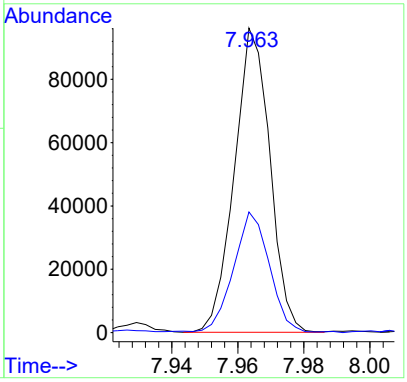


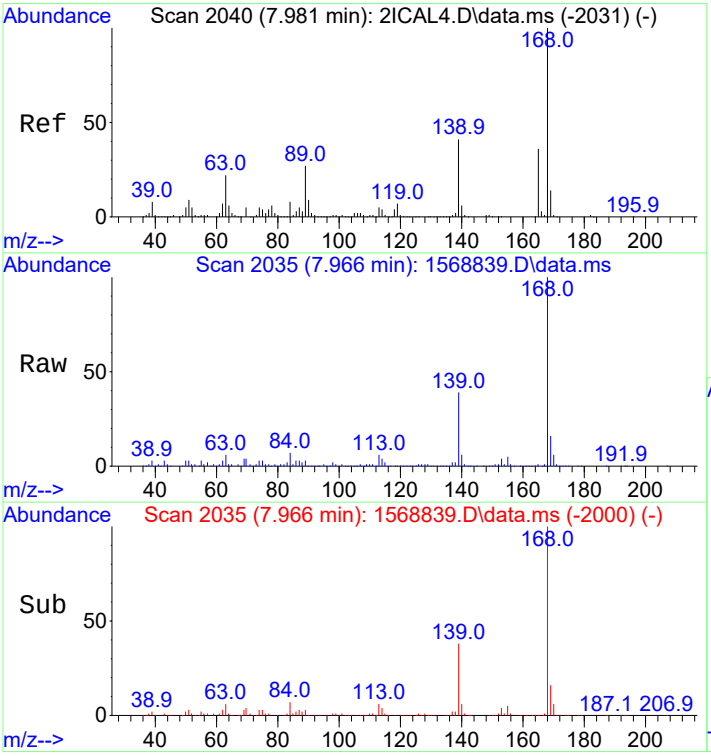



#53
Dibenzofuran
Concen: 2.18 ug/mL
RT: 7.963 min Scan# 2034
Delta R.T. -0.006 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:168 Resp: 71864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.4 | 11.9 | 71.9 |

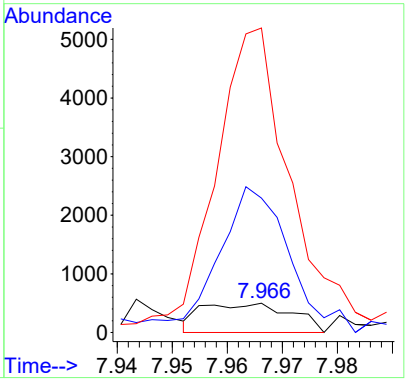


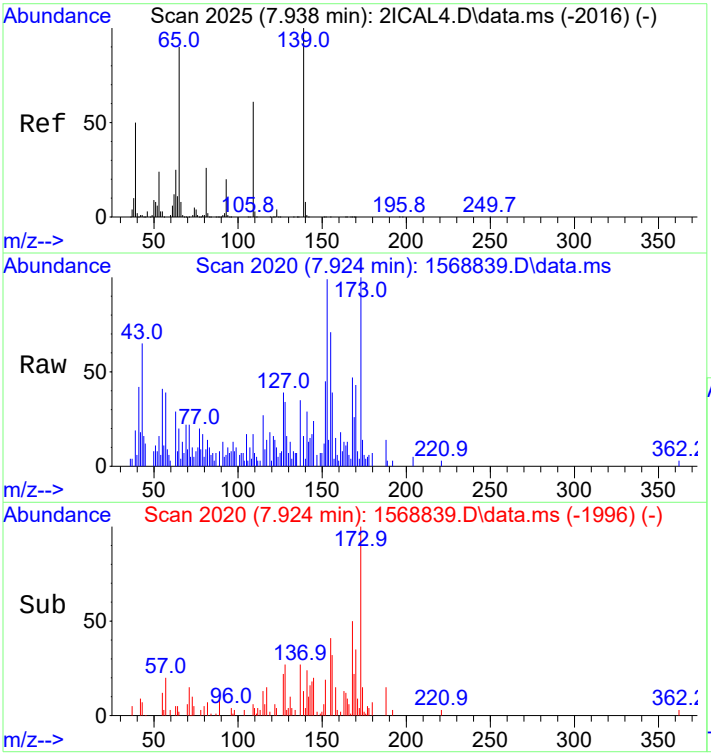




#54
24Dinitrotolu
Concen: 0.07 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.000 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:165 Resp: 557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 413.5 | 46.1 | 106.1# |
| 63 | 946.2 | 32.6 | 92.6# |

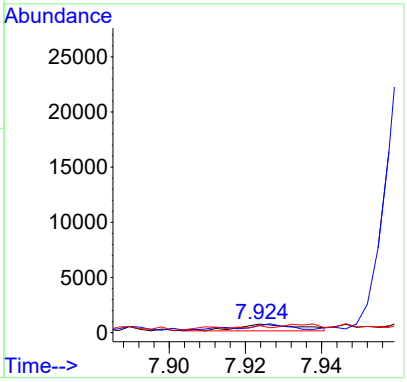


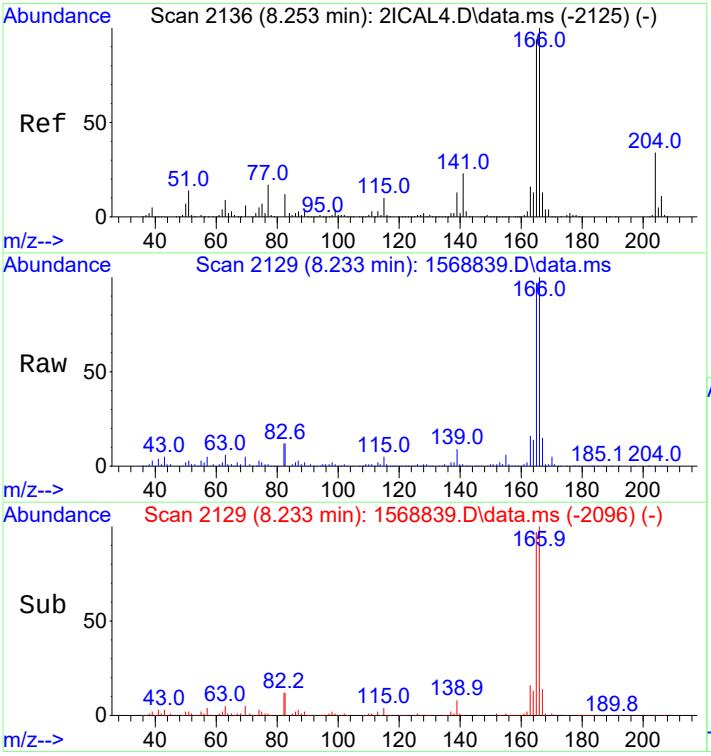



#55
4-Nitrophenol
Concen: 1.40 ug/mL
RT: 7.924 min Scan# 2020
Delta R.T. 0.003 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion: 65 Resp: 689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 63.7 | 80.5 | 140.5# |
| 109 | 65.1 | 37.6 | 97.6 |

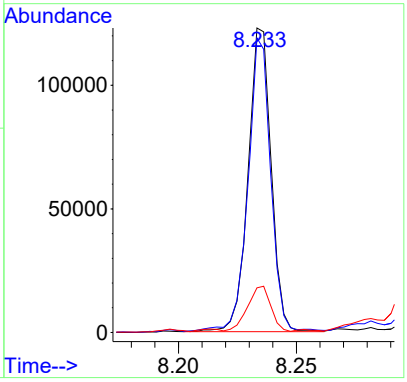


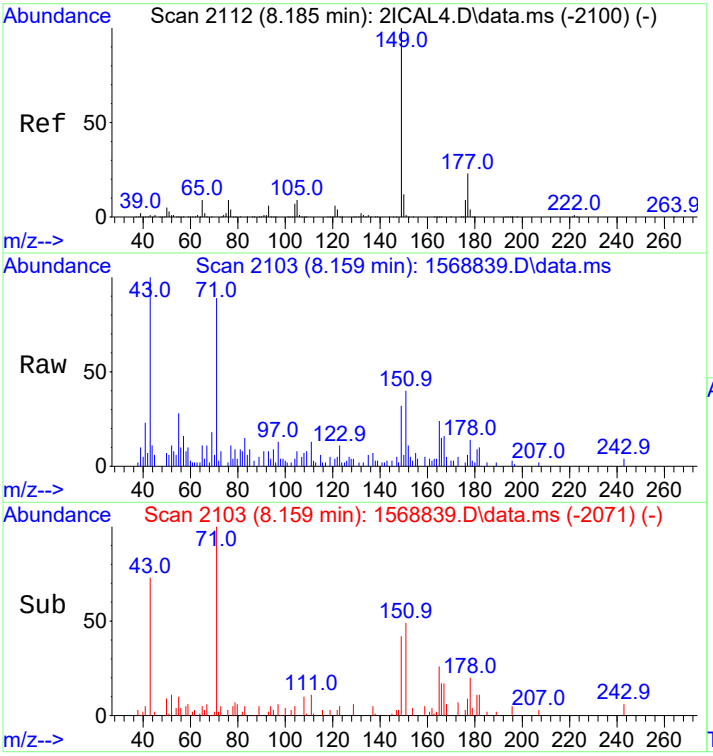




#58
Fluorene
Concen: 3.31 ug/mL
RT: 8.233 min Scan# 2129
Delta R.T. -0.006 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:166 Resp: 83550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.3 | 63.6 | 123.6 |
| 167 | 14.2 | 0.0 | 43.3 |

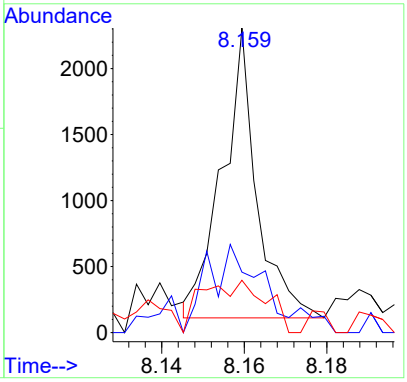


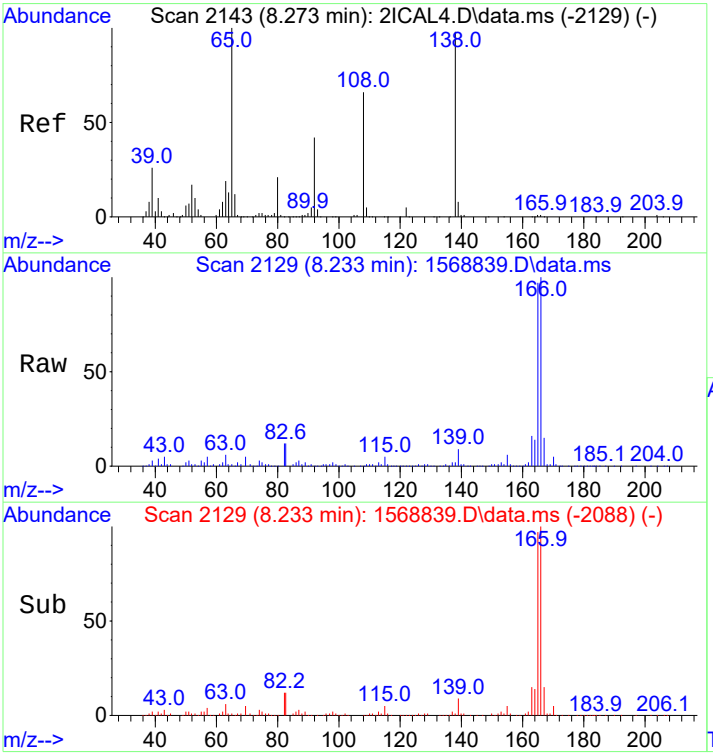



#60
Diethylphthal
Concen: 0.05 ug/mL
RT: 8.159 min Scan# 2103
Delta R.T. -0.009 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:149 Resp: 1273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 20.9 | 0.0 | 52.5 |
| 150 | 18.0 | 0.0 | 42.2 |

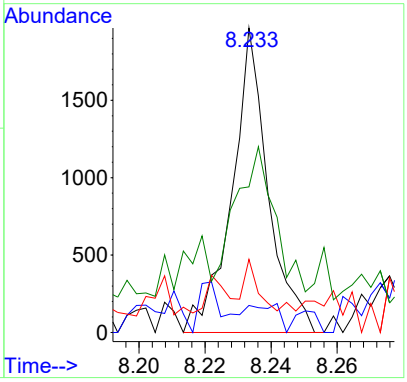


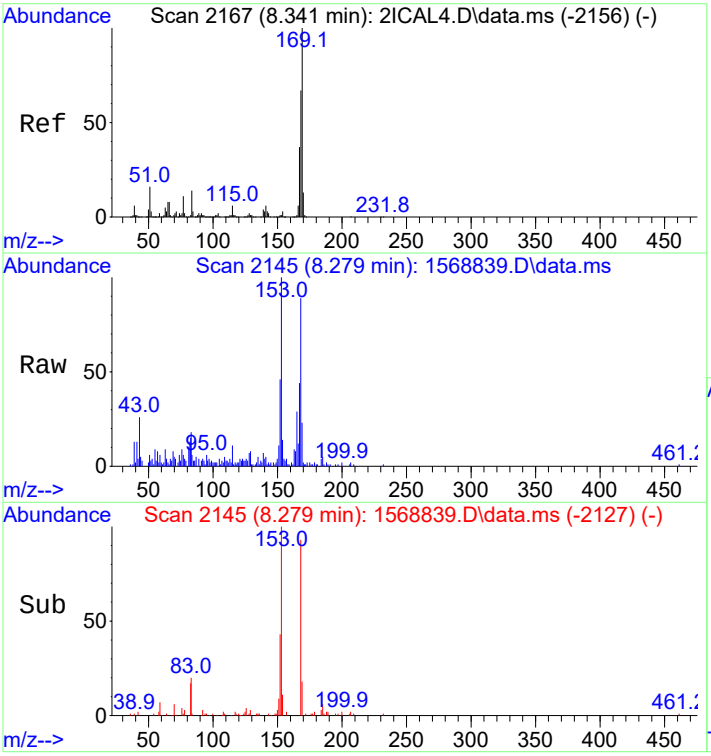




#61
4Nitroaniline
Concen: 0.57 ug/mL
RT: 8.233 min Scan# 2129
Delta R.T. -0.023 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:138 Resp: 1494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 8.9 | 12.7 | 72.7# |
| 108 | 15.7 | 36.9 | 96.9# |
| 65 | 21.1 | 71.1 | 131.1# |

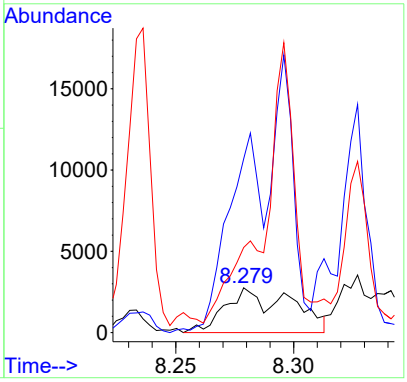


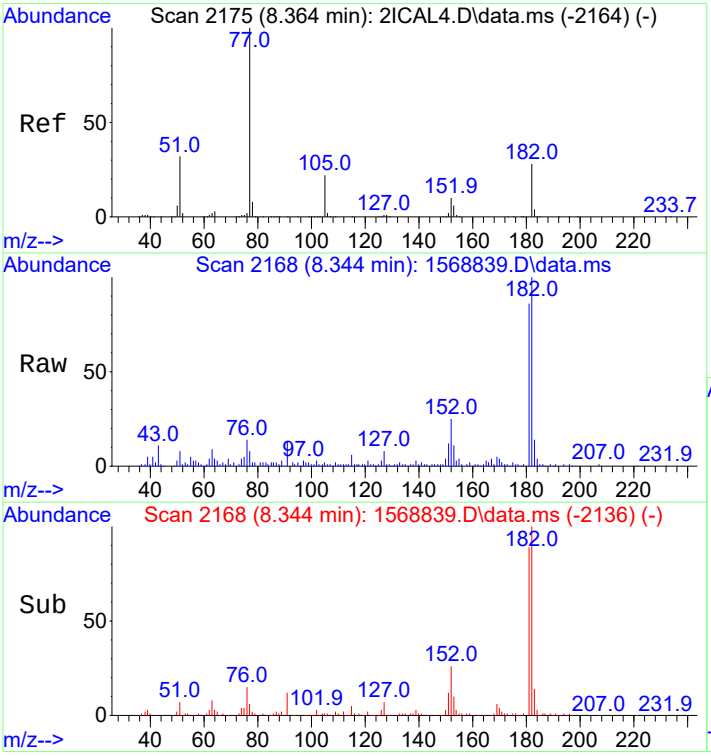



#65
Ntrsdiphlam&Diphlam
Concen: 0.30 ug/mL
RT: 8.279 min Scan# 2145
Delta R.T. -0.048 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:169 Resp: 5299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 379.0 | 37.2 | 97.2# |
| 167 | 145.3 | 6.9 | 66.9# |

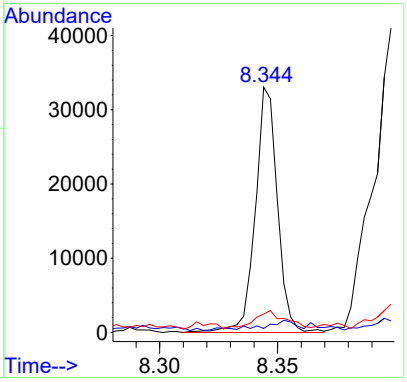


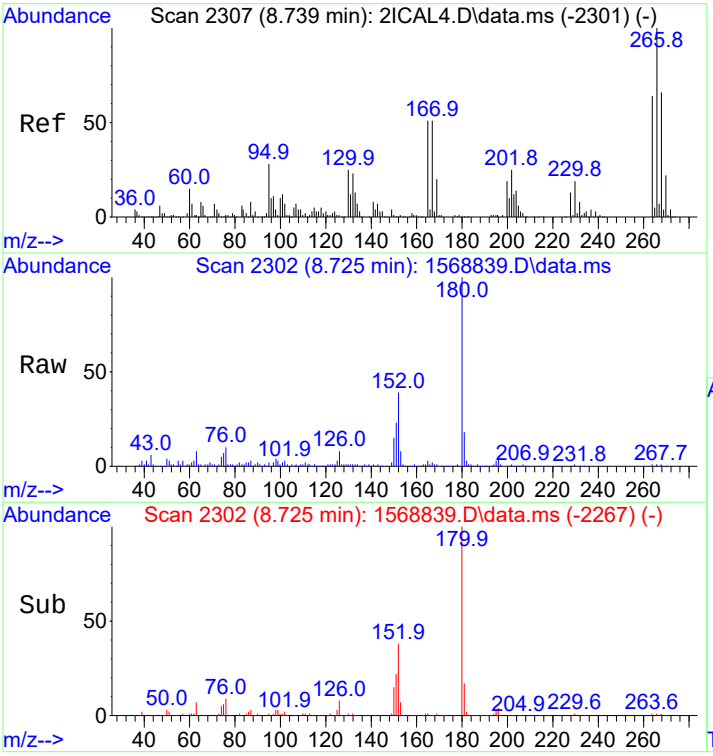




#66
Azobenz&12Diphlhyd
Concen: 3.38 ug/mL
RT: 8.344 min Scan# 2168
Delta R.T. -0.009 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:182 Resp: 21591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.0 | 49.9 | 109.9# |
| 77 | 6.1 | 339.9 | 399.9# |

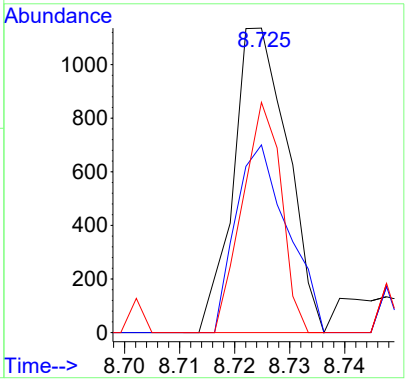


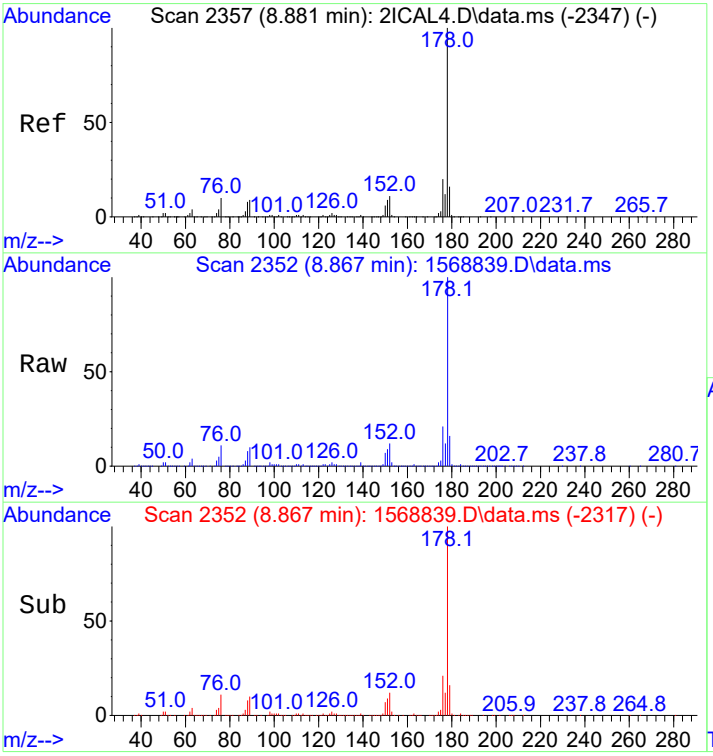



#69
Pentaclphenol
Concen: 3.50 ug/mL
RT: 8.725 min Scan# 2302
Delta R.T. -0.000 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:266 Resp: 778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 61.6 | 34.2 | 94.2 |
| 268 | 75.6 | 36.2 | 96.2 |

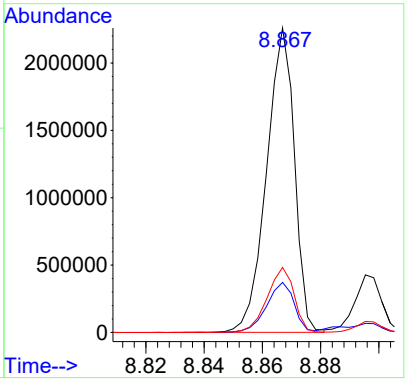


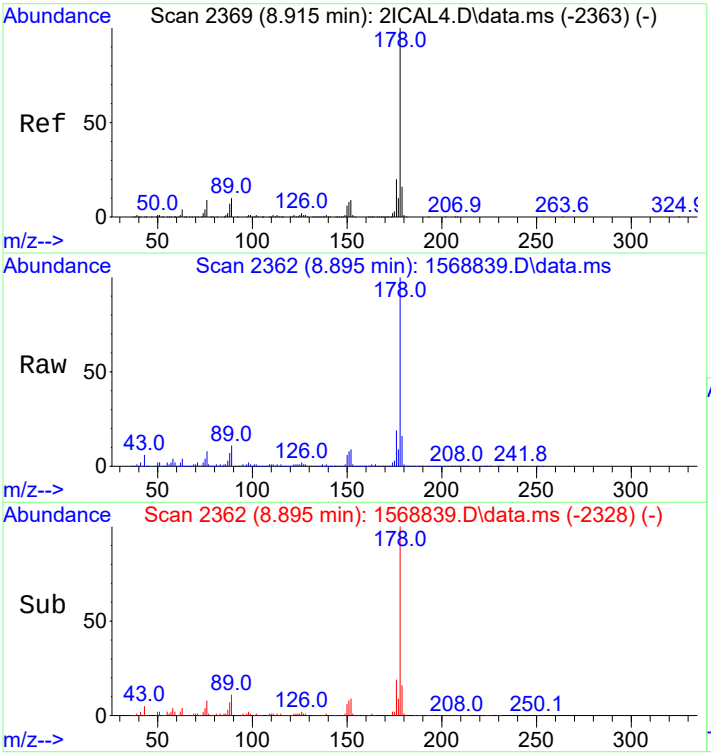




#70
Phenanthrene
Concen: 44.36 ug/mL
RT: 8.867 min Scan# 2352
Delta R.T. -0.000 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:178 Resp: 1500700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.5 | 0.0 | 45.9 |
| 176 | 21.4 | 0.0 | 50.4 |

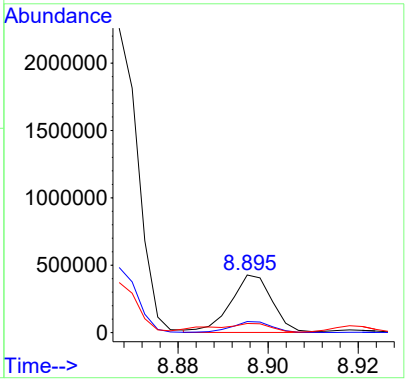


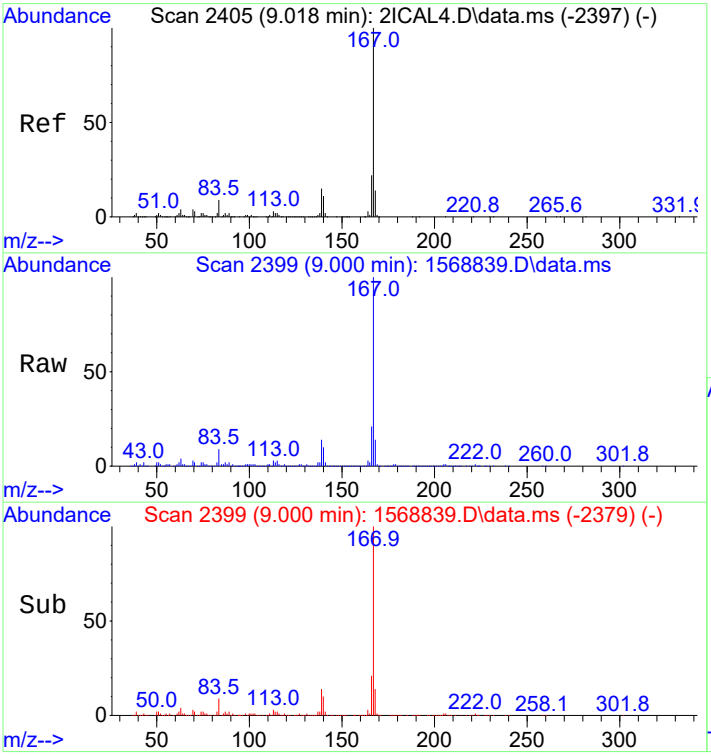



#71
Anthracene
Concen: 8.01 ug/mL
RT: 8.895 min Scan# 2362
Delta R.T. -0.003 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:178 Resp: 275708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 0.0 | 49.5 |
| 179 | 11.9 | 0.0 | 45.9 |

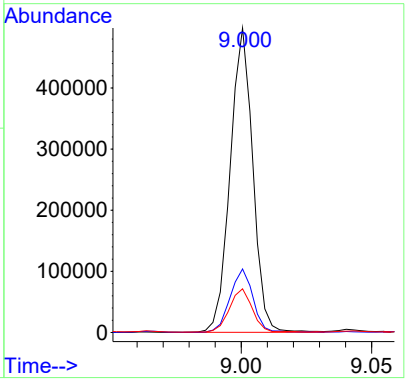


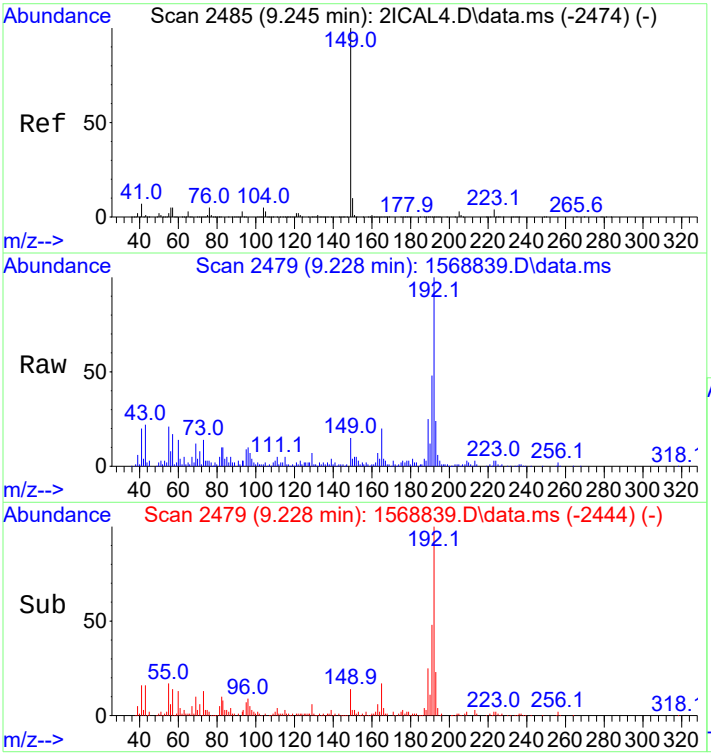




#72
Carbazole
Concen: 10.27 ug/mL
RT: 9.000 min Scan# 2399
Delta R.T. -0.003 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:167 Resp: 300960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 20.8 | 0.0 | 52.1 |
| 139 | 14.2 | 0.0 | 44.7 |

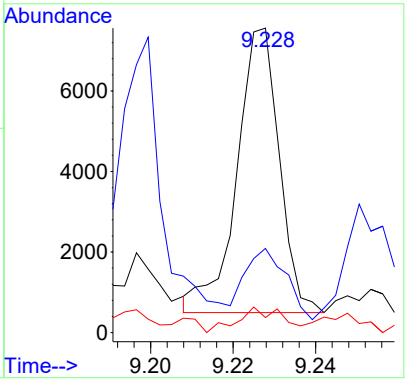


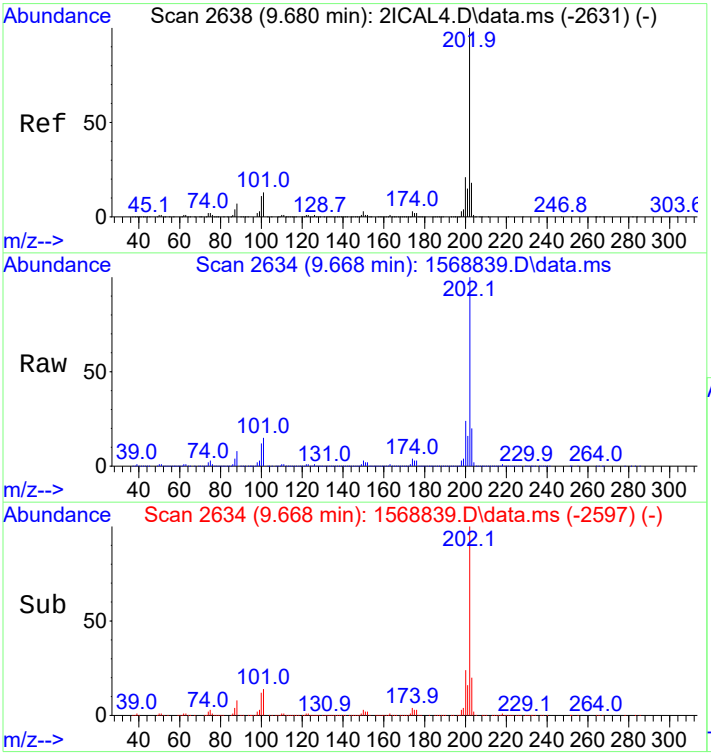



#73
Dinbtylphthal
Concen: 0.12 ug/mL
RT: 9.228 min Scan# 2479
Delta R.T. -0.000 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:149 Resp: 5051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 21.0 | 0.0 | 39.7 |
| 104 | 0.2 | 0.0 | 35.4 |

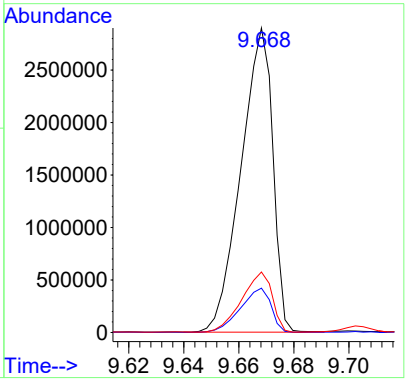


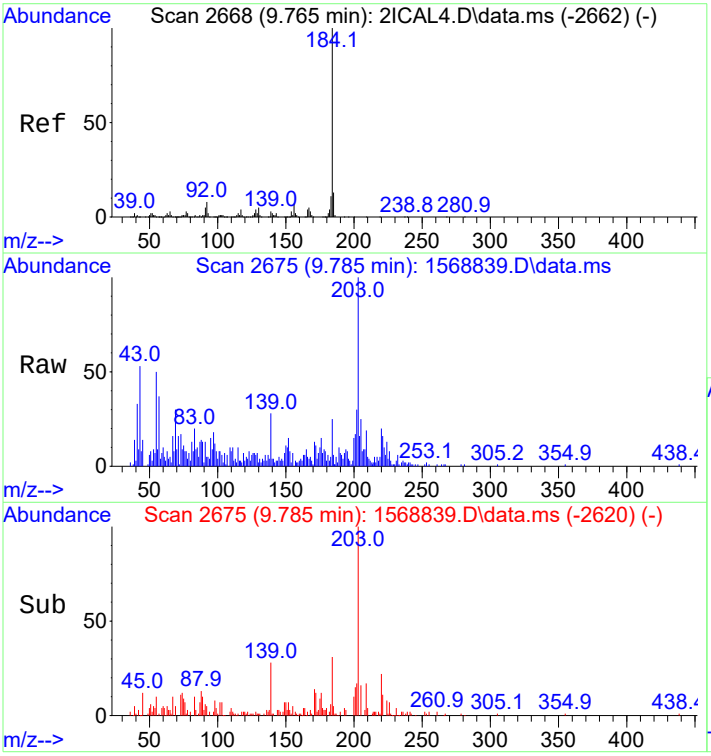




#74
Fluoranthene
Concen: 65.04 ug/mL
RT: 9.668 min Scan# 2634
Delta R.T. 0.006 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:202 Resp: 2323379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.5 | 0.0 | 43.0 |
| 203 | 19.8 | 0.0 | 48.2 |

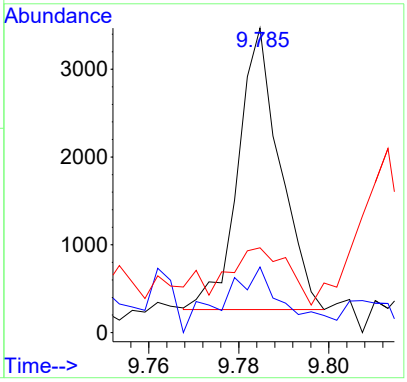


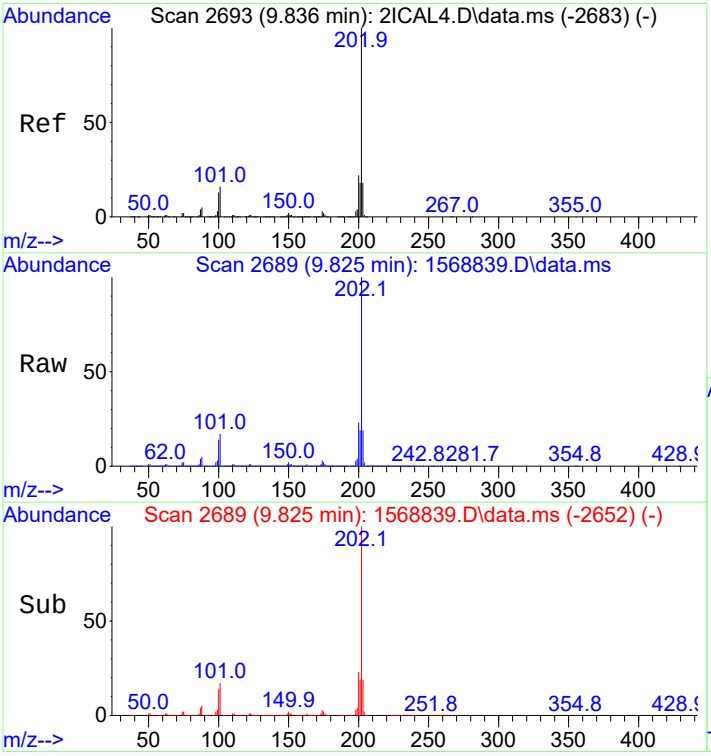



#76
Benzidine
Concen: 0.04 ug/mL
RT: 9.785 min Scan# 2675
Delta R.T. 0.037 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:184 Resp: 2074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 23.3 | 0.0 | 38.2 |
| 185 | 13.9 | 0.0 | 43.3 |

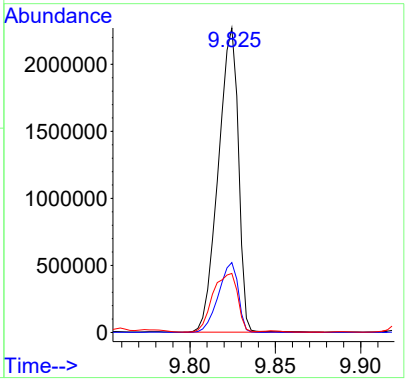


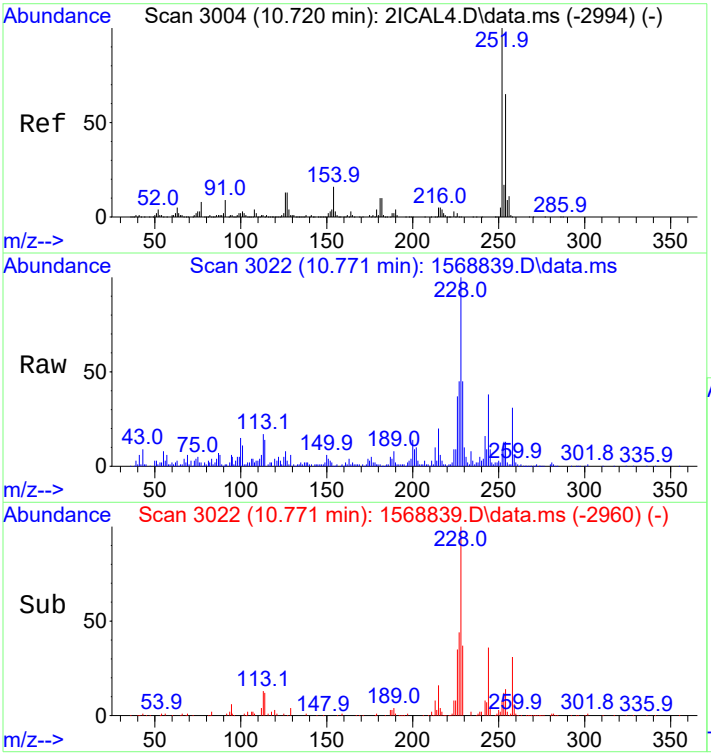




#77
Pyrene
Concen: 49.41 ug/mL
RT: 9.825 min Scan# 2689
Delta R.T. 0.006 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:202 Resp: 1850499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.9 | 0.0 | 52.2 |
| 203 | 19.3 | 0.0 | 48.2 |

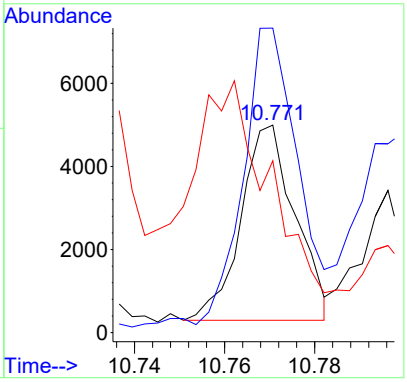


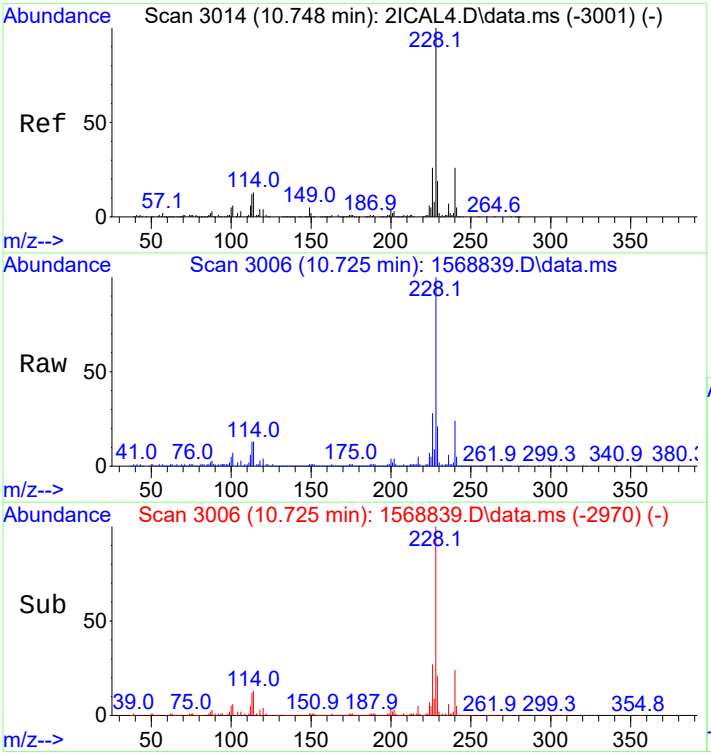



#81
33Diclbnzidin
Concen: 0.26 ug/mL
RT: 10.771 min Scan# 3022
Delta R.T. 0.077 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:252 Resp: 3931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 148.8 | 34.6 | 94.6# |
| 126 | 67.7 | 0.0 | 42.6# |

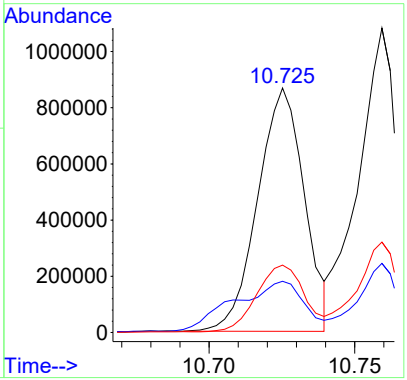


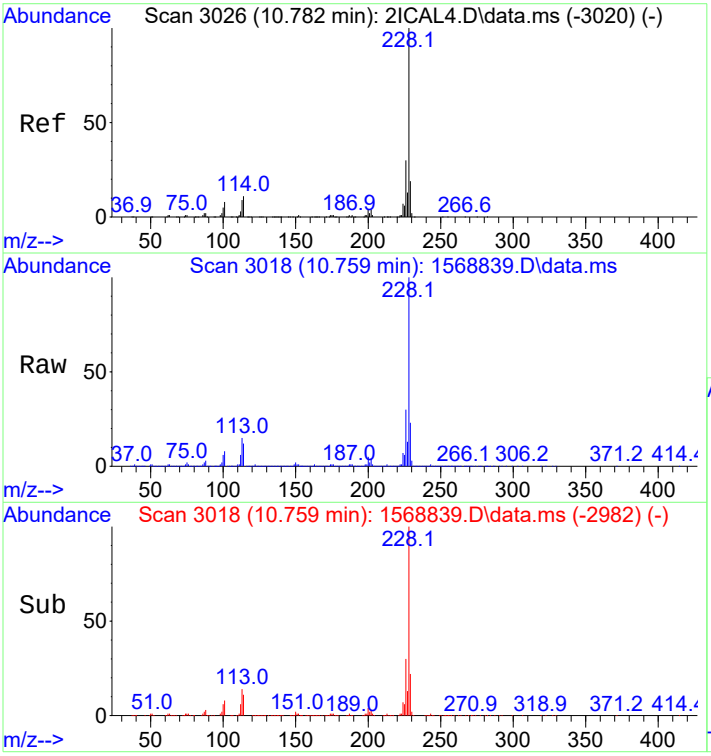




#82
B[a]anthracen
Concen: 27.11 ug/mL
RT: 10.725 min Scan# 3006
Delta R.T. 0.003 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:228 Resp: 962339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.8 | 0.0 | 49.4 |
| 226 | 27.3 | 0.0 | 56.5 |

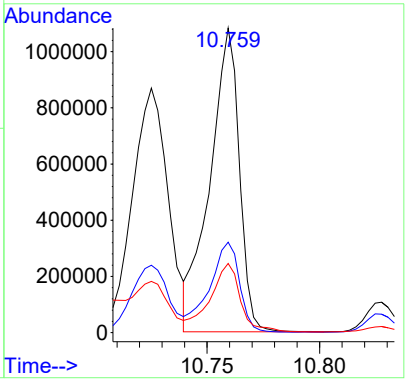


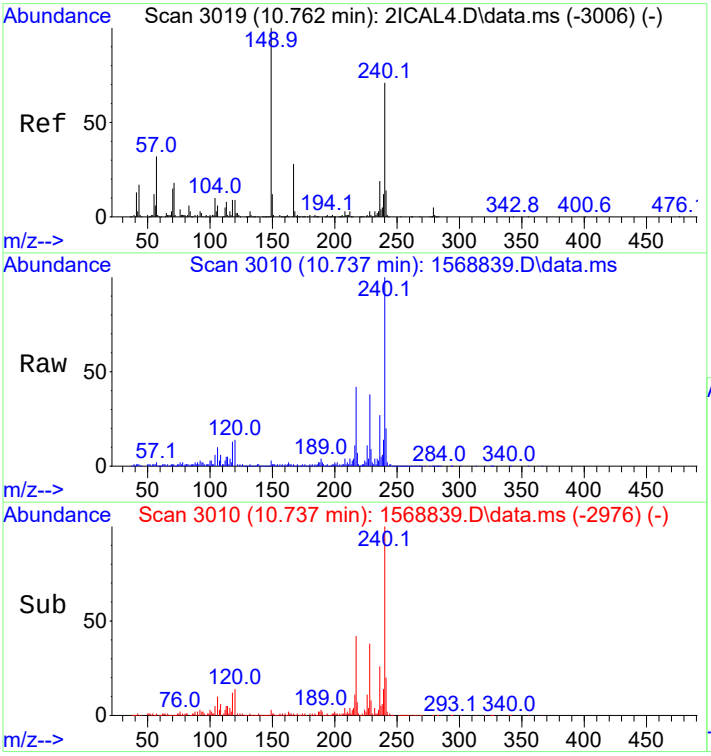



#83
Chrysene
Concen: 29.66 ug/mL
RT: 10.759 min Scan# 3018
Delta R.T. 0.003 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:228 Resp: 987548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.6 | 0.0 | 59.9 |
| 229 | 22.5 | 0.0 | 49.5 |

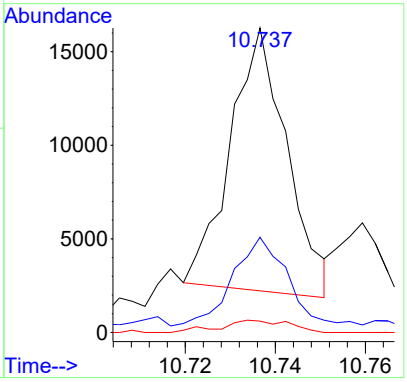


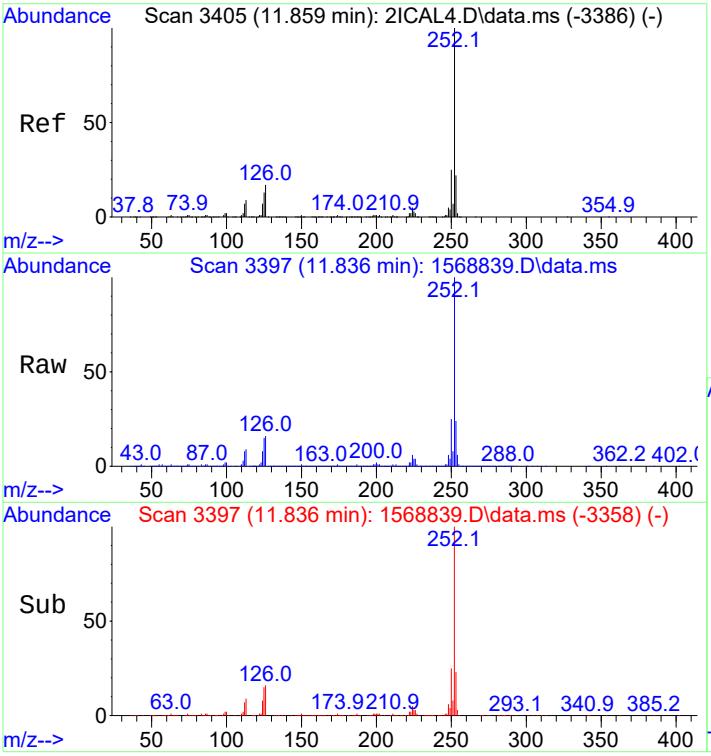




#84
bis2Ethlhxlph
Concen: 0.45 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. -0.003 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:149 Resp: 12245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 33.9 | 0.0 | 57.9 |
| 279 | 5.3 | 0.0 | 34.9 |

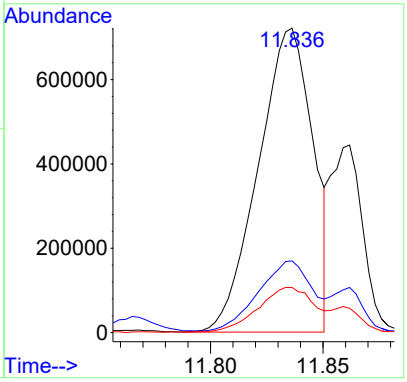


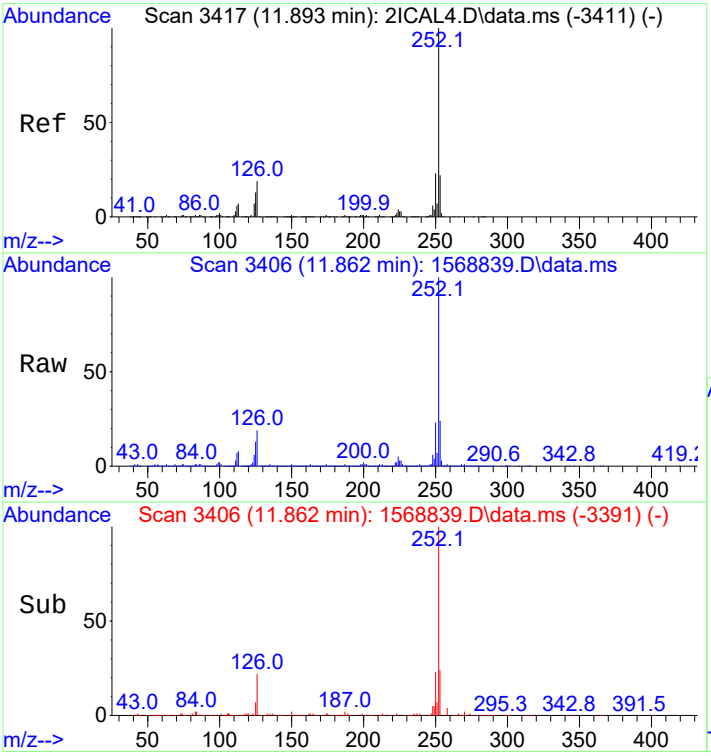



#87
B[b]fluoranth
Concen: 40.89 ug/mL
RT: 11.836 min Scan# 3397
Delta R.T. 0.011 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:252 Resp: 1218380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.0 | 0.0 | 52.3 |
| 125 | 14.6 | 0.0 | 43.2 |

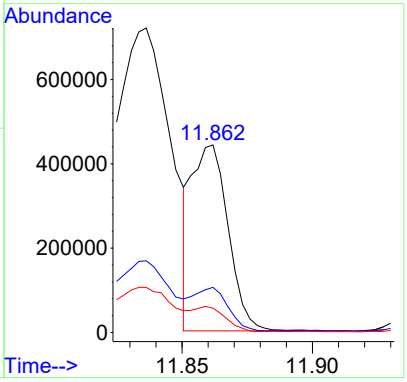


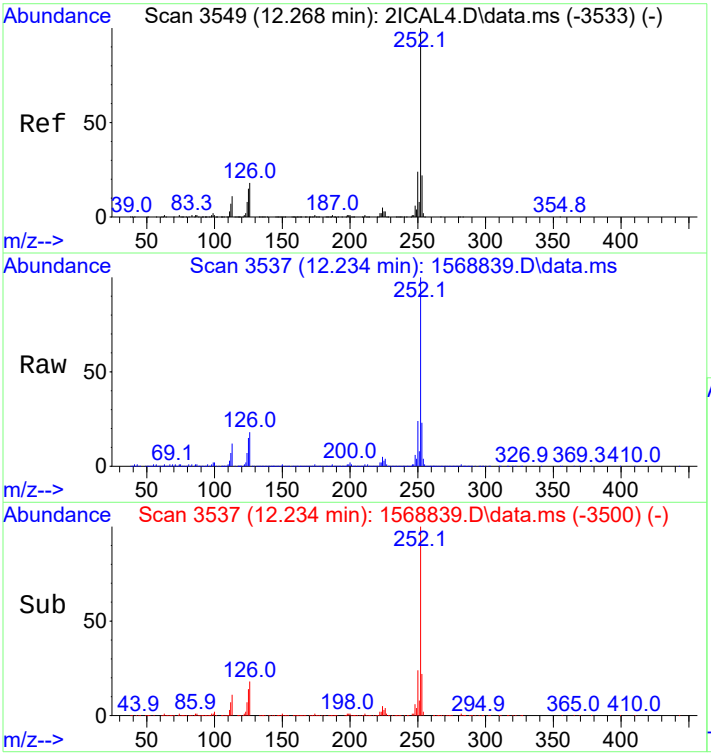




#88
B[k]fluoranth
Concen: 14.37 ug/mL
RT: 11.862 min Scan# 3406
Delta R.T. 0.003 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:252 Resp: 428908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.3 | 0.0 | 52.0 |
| 125 | 12.7 | 0.0 | 43.3 |

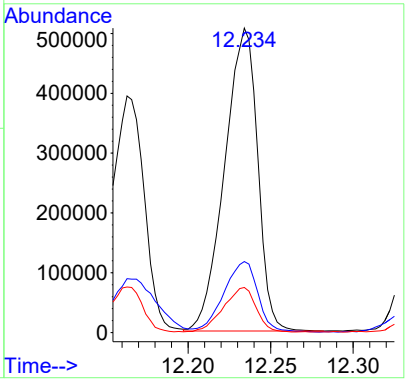


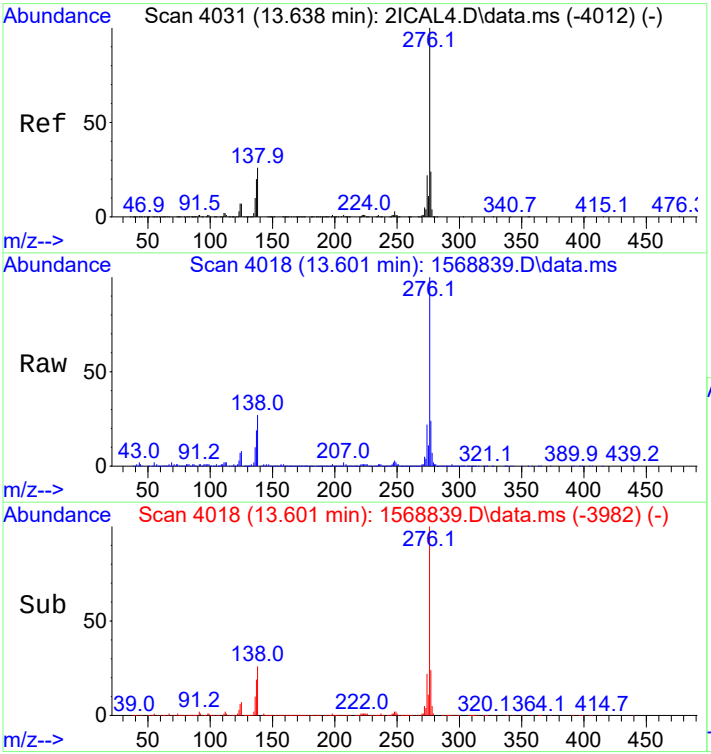



#89
Benz[a]pyrene
Concen: 25.72 ug/mL
RT: 12.234 min Scan# 3537
Delta R.T. 0.006 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:252 Resp: 704899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.2 | 0.0 | 52.3 |
| 125 | 14.6 | 0.0 | 45.1 |

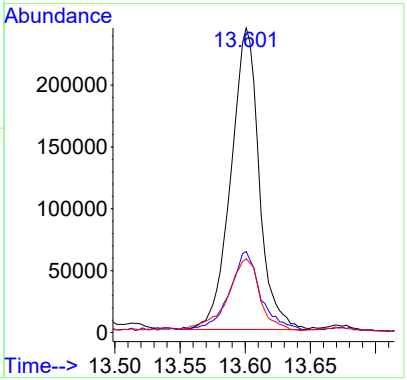


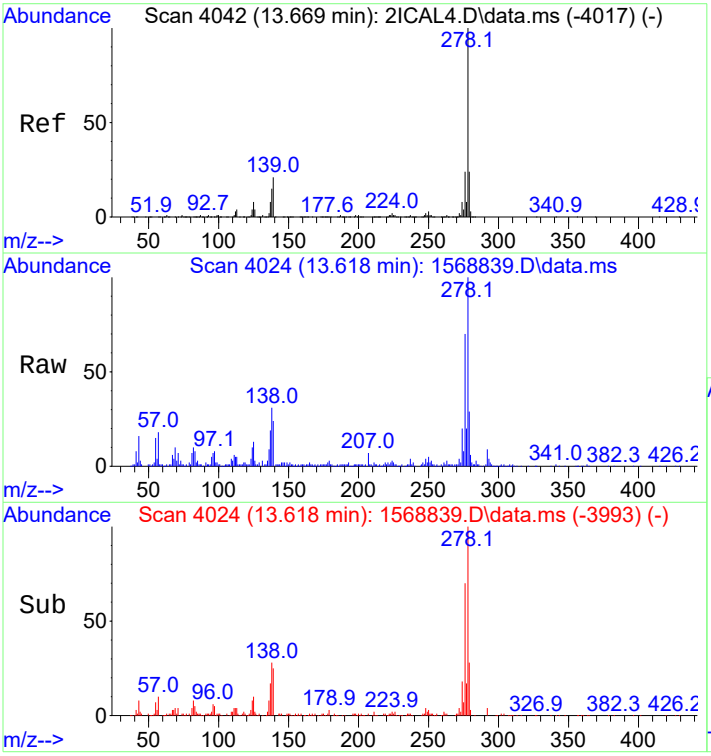




#90
Indeno-pyrene
Concen: 12.15 ug/mL
RT: 13.601 min Scan# 4018
Delta R.T. 0.003 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:276 Resp: 368406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.0 | 0.0 | 55.5 |
| 277 | 23.3 | 0.0 | 54.0 |

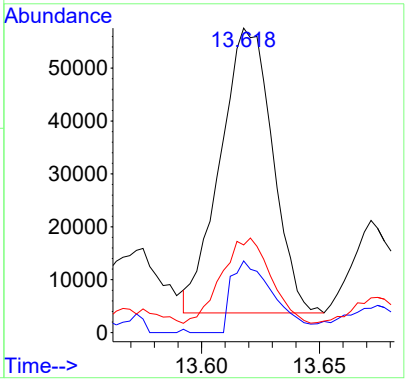


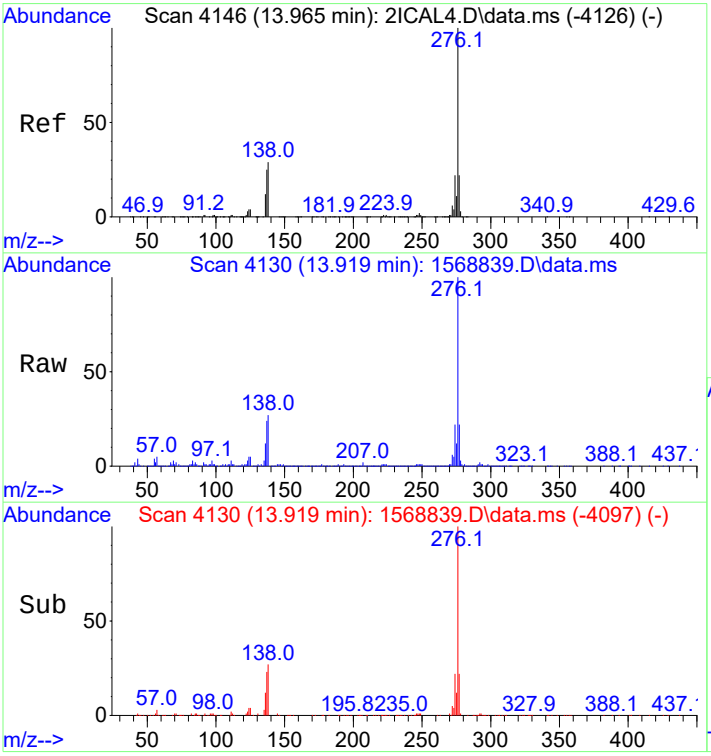



#91
Dib[ah]anthr
Concen: 3.35 ug/mL
RT: 13.618 min Scan# 4024
Delta R.T. -0.011 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:278 Resp: 83028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 24.0 | 0.0 | 50.9 |
| 279 | 27.5 | 0.0 | 54.4 |

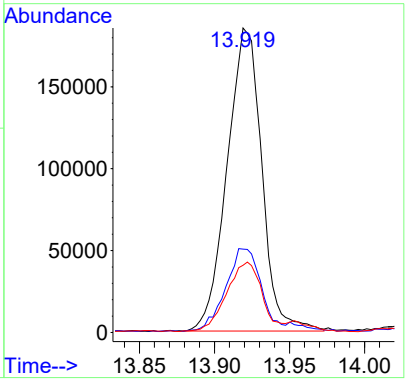



#92
B[ghi]perylen
Concen: 12.52 ug/mL
RT: 13.919 min Scan# 4130
Delta R.T. -0.006 min
Lab File: 1568839.D
Acq: 10 Apr 2025 17:18

Tgt Ion:276 Resp: 297396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.1 | 0.0 | 59.0 |
| 277 | 21.7 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568828.D Vial: 24
Acq On : 10 Apr 2025 17:41 Operator: ALD
Sample : 290730,1568828, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 17:58:23 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.326 | 152 | 174103 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.020 | 136 | 849918 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.796 | 164 | 484397 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.850 | 188 | 703592 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.742 | 240 | 572028 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.314 | 264 | 511497 | 20.00 | ug/mL | 0.01 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.102 | 112 | 261466 | 62.38 | %REC | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 62.38% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 357676 | 70.99 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 70.99% | | | |
| 22) SURRNitrbenzened5 | 5.011 | 82 | 147198 | 63.56 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 63.56% | | | |
| 44) SURR2Flbiphenyl | 7.211 | 172 | 423347 | 73.26 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 73.26% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 102566 | 79.10 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 79.10% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 499087 | 89.48 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 89.48% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.269 | 74 | 510 | 0.0757 | ug/mL# | 1 |
| 3) Pyridine | 2.610 | 79 | 5981 | 0.4965 | ug/mL | 74 |
| 5) Aniline | 4.011 | 93 | 824 | 0.0513 | ug/mL# | 1 |
| 13) Benzyl alcoho | 4.488 | 108 | 509 | 0.0680 | ug/mL | 86 |
| 14) bis2clispreth | 4.630 | 45 | 3421 | 0.1709 | ug/mL | 72 |
| 20) 3&4Methylphenol | 4.835 | 107 | 1509 | 0.1293 | ug/mL# | 66 |
| 24) Isophorone | 5.389 | 82 | 2256 | 0.0957 | ug/mL | 77 |
| 26) 24Dimthpheno | 5.670 | 122 | 3295 | 0.2885 | ug/mL# | 5 |
| 30) Benzoic acid | 5.670 | 122 | 4202 | 3.5199 | ug/mL | 94 |
| 31) Naphthalene | 6.043 | 128 | 79978 | 2.0404 | ug/mL | 97 |
| 32) 4-Cl-aniline | 6.088 | 127 | 446 | 0.0292 | ug/mL# | 1 |
| 37) 2Methylnaphth | 6.838 | 142 | 28593 | 1.2069 | ug/mL | 98 |
| 38) 1Methylnaphth | 6.935 | 142 | 22643 | 0.9242 | ug/mL | 96 |
| 46) 2Nitroaniline | 7.429 | 65 | 2320 | 0.5795 | ug/mL# | 7 |
| 47) Acnaphthylene | 7.674 | 152 | 16967 | 0.4328 | ug/mL | 96 |
| 50) Acenaphthene | 7.821 | 154 | 257308 | 11.0437 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.819 | 138 | 580 | 0.3209 | ug/mL# | 7 |
| 53) Dibenzofuran | 7.966 | 168 | 161033 | 4.7861 | ug/mL | 95 |
| 54) 24Dinitrotolu | 7.966 | 165 | 1026 | 0.1206 | ug/mL# | 1 |
| 55) 4-Nitrophenol | 7.963 | 65 | 1008 | 1.4577 | ug/mL# | 1 |
| 58) Fluorene | 8.236 | 166 | 194078 | 7.5456 | ug/mL | 97 |
| 60) Diethylphthal | 8.157 | 149 | 1139 | 0.0400 | ug/mL | 92 |
| 61) 4Nitroaniline | 8.236 | 138 | 2637 | 0.7548 | ug/mL# | 43 |
| 65) Ntrsdiphlam&Diphlam | 8.293 | 169 | 10782 | 0.5944 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.344 | 182 | 42136 | 6.5139 | ug/mL# | 1 |
| 70) Phenanthrene | 8.873 | 178 | 3056414 | 89.1638 | ug/mL | 95 |
| 71) Anthracene | 8.898 | 178 | 589998 | 16.9171 | ug/mL | 97 |
| 72) Carbazole | 9.003 | 167 | 659166 | 22.1959 | ug/mL | 99 |
| 73) Dinbtylphthal | 9.228 | 149 | 10586 | 0.2548 | ug/mL | 84 |
| 74) Fluoranthene | 9.677 | 202 | 4794609 | 132.4598 | ug/mL | 93 |
| 76) Benzidine | 9.788 | 184 | 3965 | 0.3646 | ug/mL | 91 |
| 77) Pyrene | 9.833 | 202 | 3890324 | 107.0707 | ug/mL | 94 |
| 79) Btylbzylphth | 10.268 | 149 | 4048 | 0.2253 | ug/mL# | 53 |
| 81) 33Diclbnzidin | 10.774 | 252 | 8933 | 0.9528 | ug/mL# | 1 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568828.D Vial: 24
Acq On : 10 Apr 2025 17:41 Operator: ALD
Sample : 290730,1568828, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 17:58:23 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

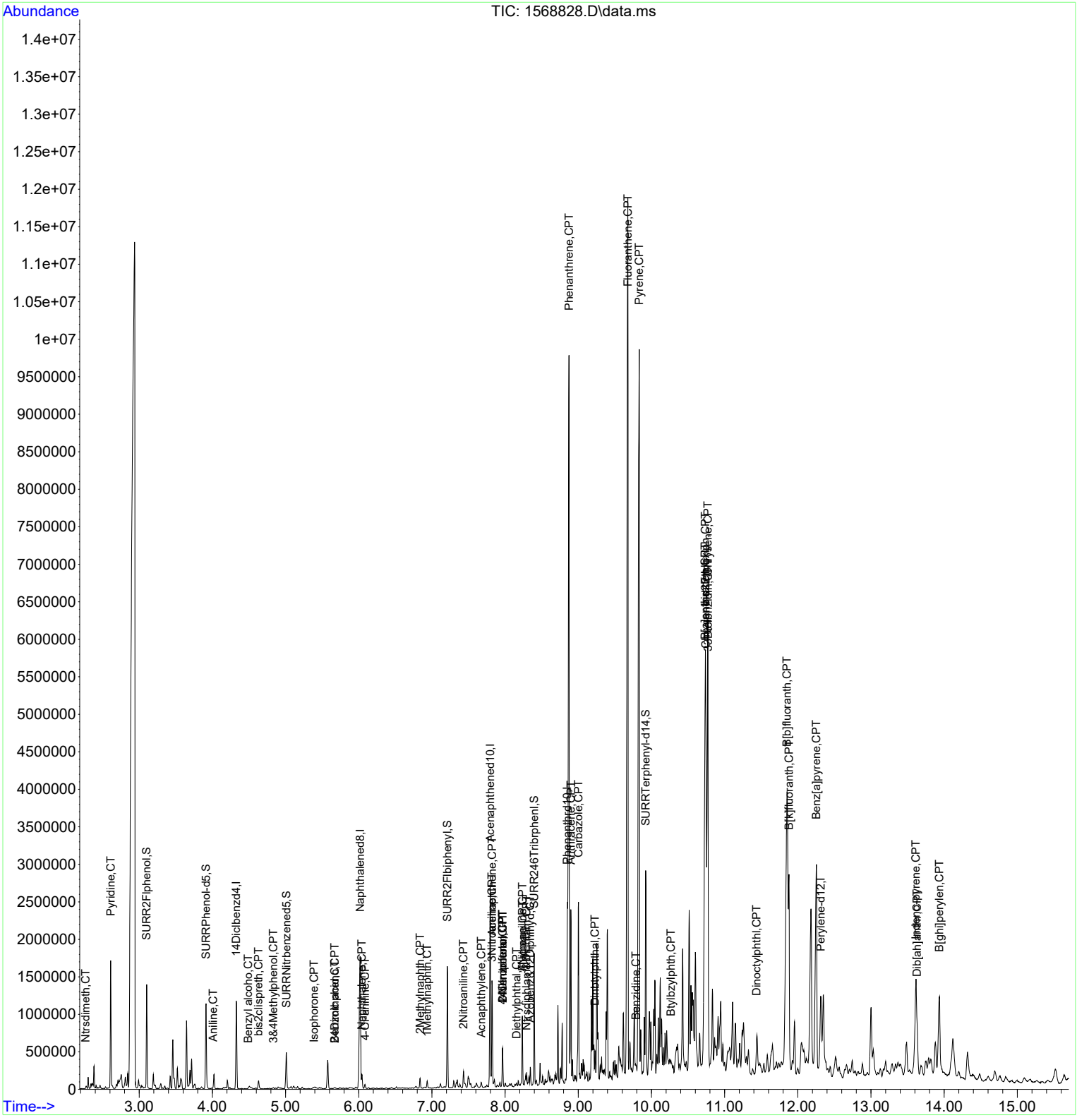
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 82) B[a]anthracen | 10.734 | 228 | 2226799 | 64.6584 | ug/mL | 96 |
| 83) Chrysene | 10.771 | 228 | 2172750 | 67.2699 | ug/mL | 94 |
| 84) bis2Ethlhxlph | 10.737 | 149 | 23655 | 0.9025 | ug/mL | 85 |
| 85) Dinoctylphthl | 11.436 | 149 | 19356 | 0.7487 | ug/mL# | 48 |
| 87) B[b]fluoranth | 11.853 | 252 | 2798144 | 103.2720 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.879 | 252 | 745450 | 27.4600 | ug/mL | 97 |
| 89) Benz[a]pyrene | 12.254 | 252 | 1521273 | 61.0521 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.612 | 276 | 722878 | 26.2293 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.629 | 278 | 156005 | 6.9249 | ug/mL | 95 |
| 92) B[ghi]perylen | 13.936 | 276 | 574121 | 26.5889 | ug/mL | 98 |

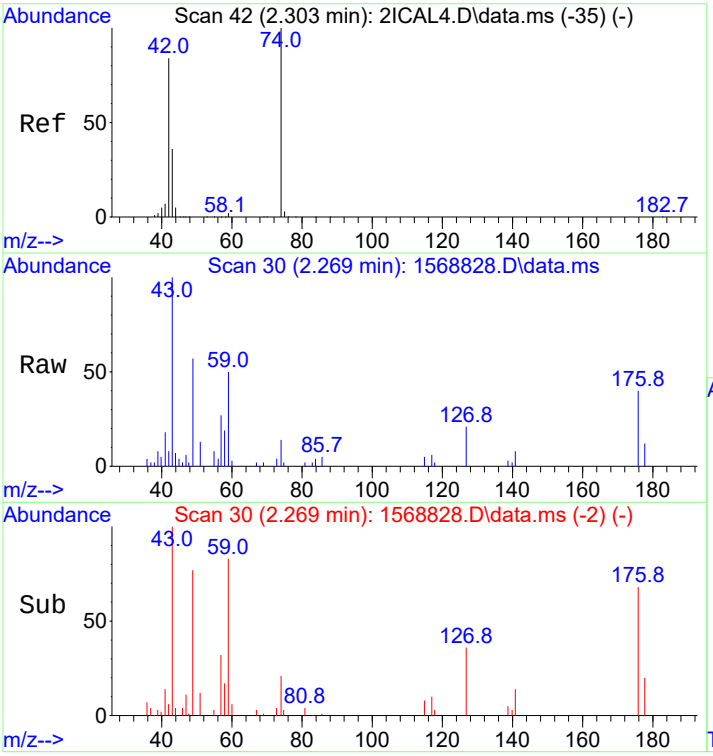
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568828.D Vial: 24
Acq On : 10 Apr 2025 17:41 Operator: ALD
Sample : 290730,1568828, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 17:58:23 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

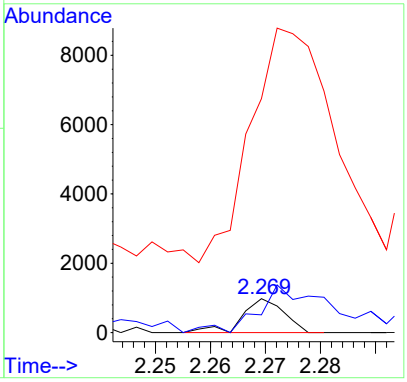


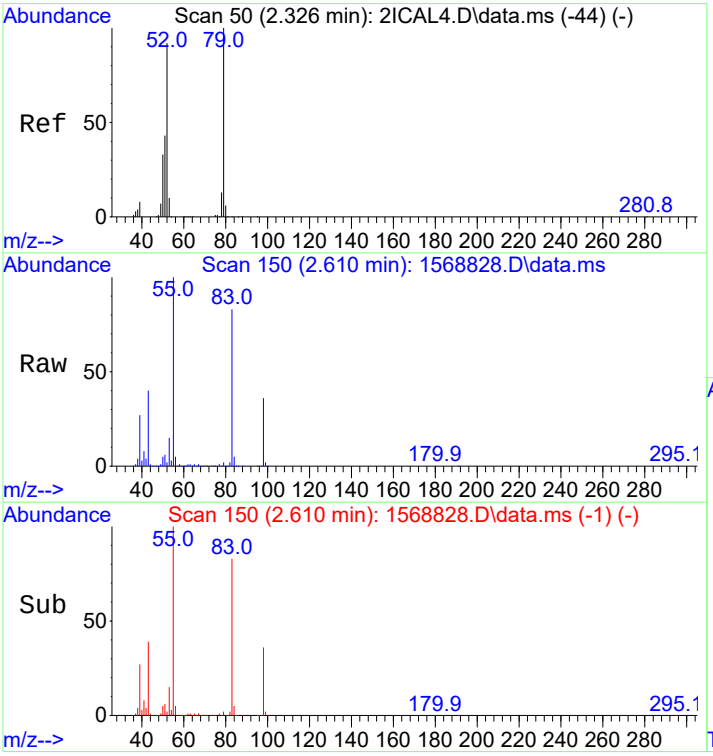



#2
Ntrsdimeth
Concen: 0.08 ug/mL
RT: 2.269 min Scan# 30
Delta R.T. -0.020 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion: 74 Resp: 510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 46.7 | 53.9 | 113.9# |
| 43 | 397.6 | 6.0 | 66.0# |

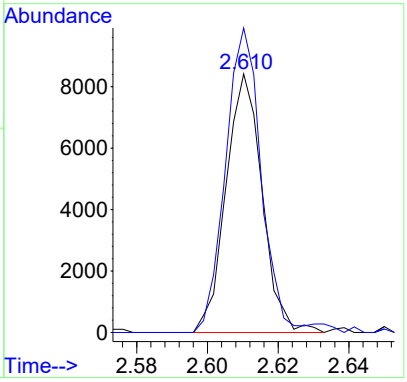


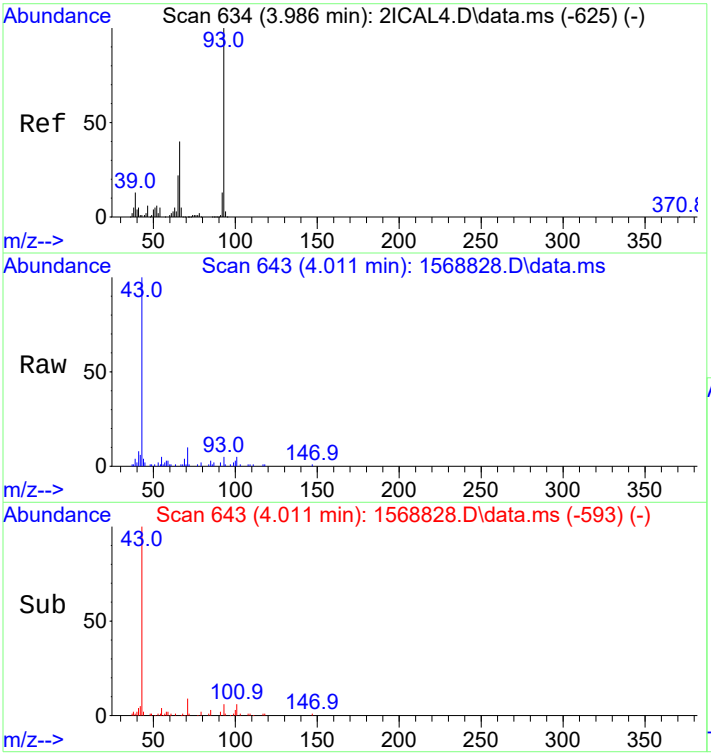




#3
Pyridine
Concen: 0.50 ug/mL
RT: 2.610 min Scan# 150
Delta R.T. 0.301 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion: 79 Resp: 5981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 117.8 | 62.5 | 122.5 |

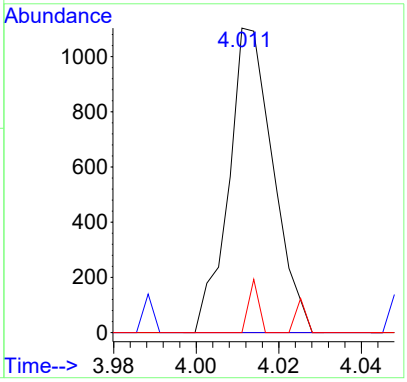


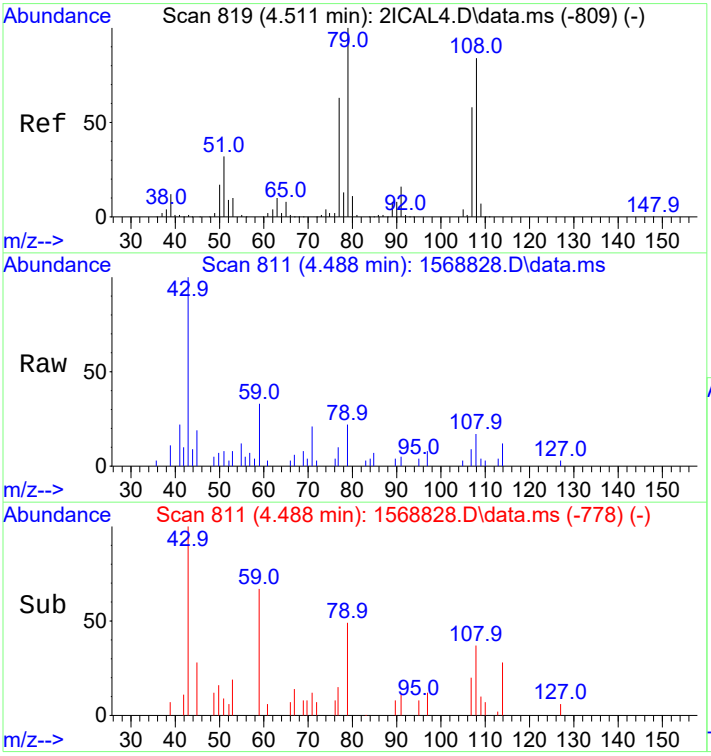



#5
Aniline
Concen: 0.05 ug/mL
RT: 4.011 min Scan# 643
Delta R.T. 0.043 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion: 93 Resp: 824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 2173.2 | 10.8 | 70.8# |
| 65 | 446.4 | 0.0 | 51.7# |

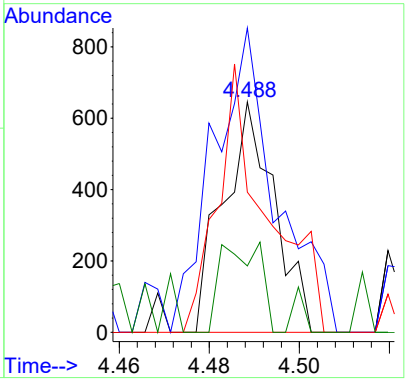


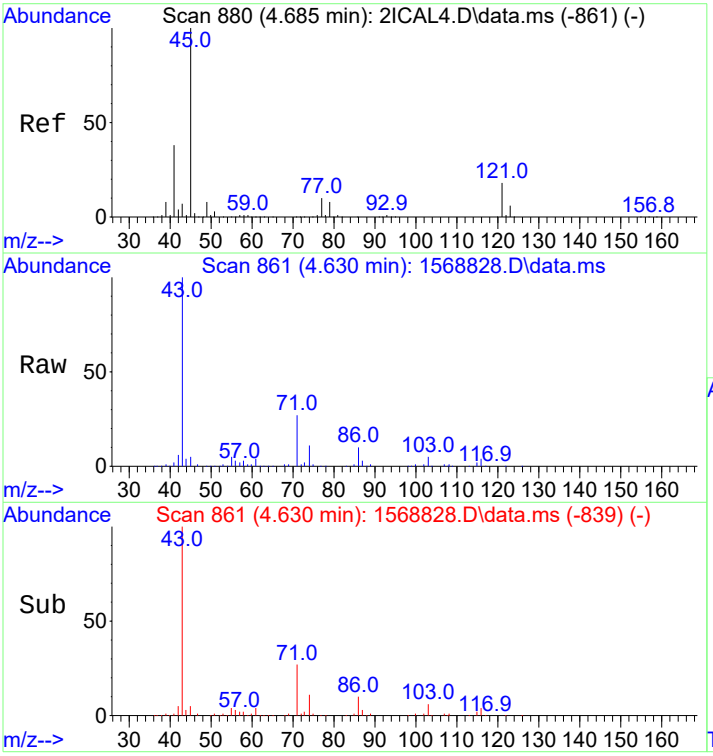




#13
Benzyl alcoho
Concen: 0.07 ug/mL
RT: 4.488 min Scan# 811
Delta R.T. -0.006 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:108 Resp: 509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 79 | 106.7 | 89.6 | 149.6 |
| 77 | 60.8 | 44.8 | 104.8 |
| 91 | 28.8 | 0.0 | 49.0 |

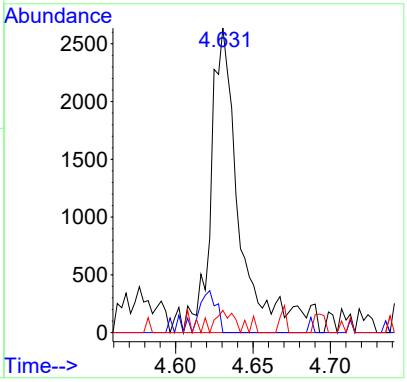


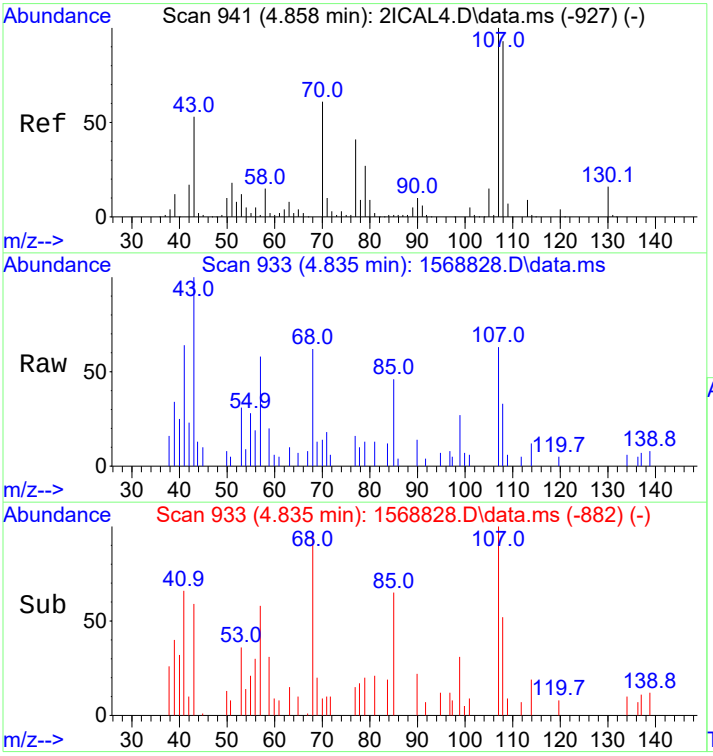



#14
bis2clispreth
Concen: 0.17 ug/mL
RT: 4.630 min Scan# 861
Delta R.T. -0.037 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion: 45 Resp: 3421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 0.0 | 0.0 | 47.5 |
| 77 | 7.3 | 0.0 | 40.1 |

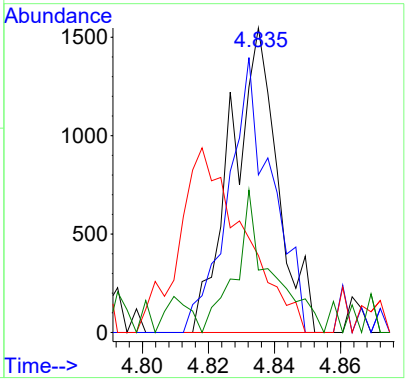


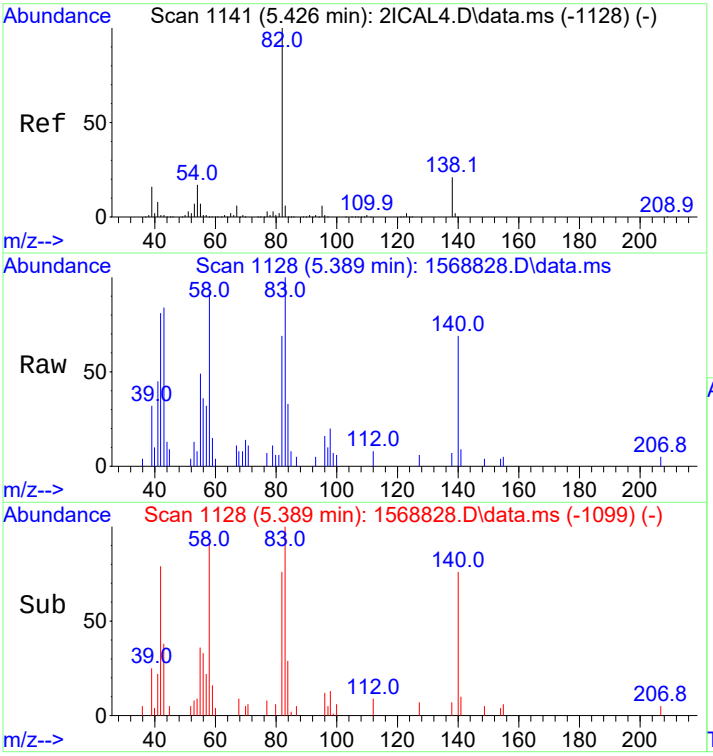




#20
3&4Methylphenol
Concen: 0.13 ug/mL
RT: 4.835 min Scan# 933
Delta R.T. -0.006 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:107 Resp: 1509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 51.8 | 63.3 | 123.3# |
| 77 | 25.3 | 11.4 | 71.4 |
| 79 | 20.5 | 0.0 | 56.9 |

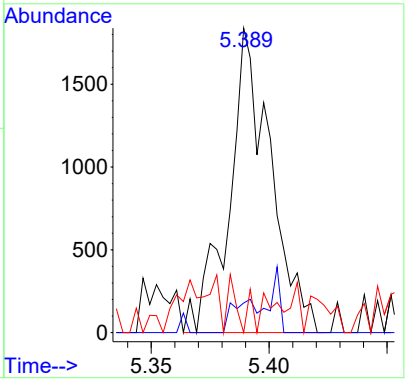


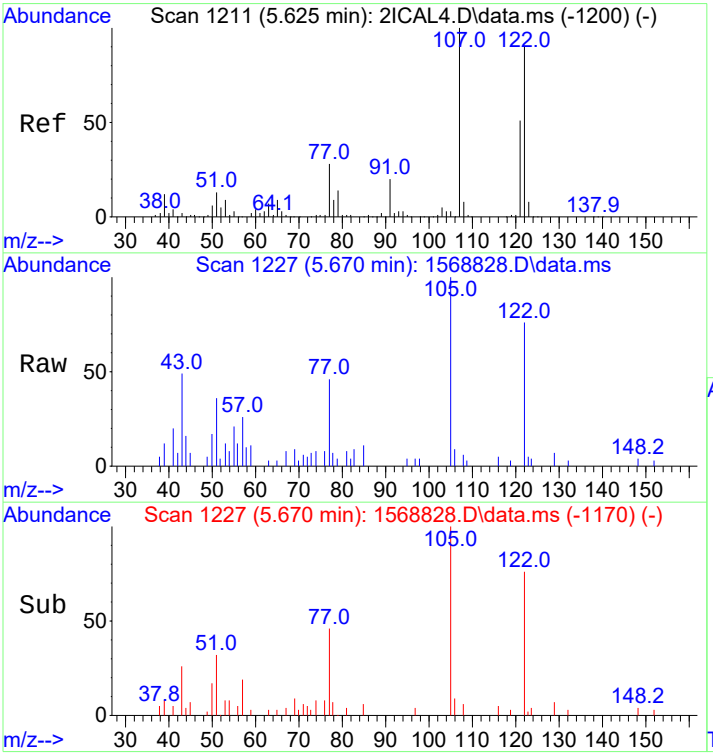



#24
Isophorone
Concen: 0.10 ug/mL
RT: 5.389 min Scan# 1128
Delta R.T. -0.017 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion: 82 Resp: 2256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 138 | 9.7 | 0.0 | 51.2 |
| 95 | 0.0 | 0.0 | 36.4 |

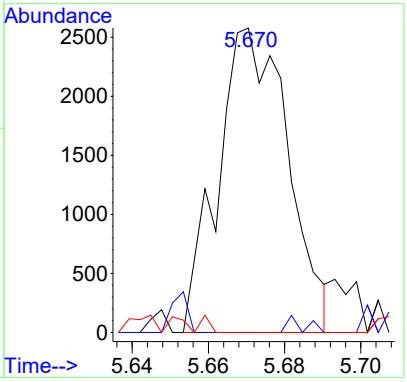


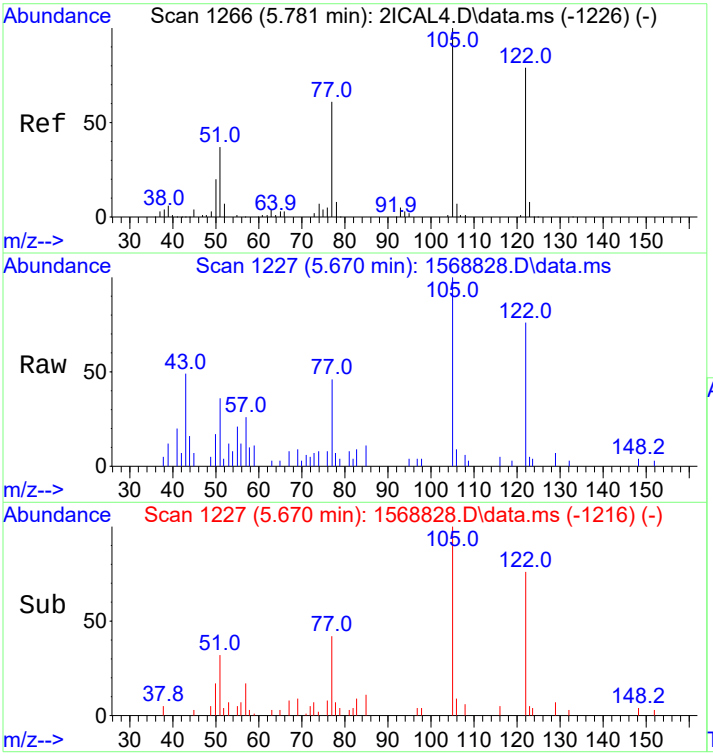




#26
24Dimthpheno
Concen: 0.29 ug/mL
RT: 5.670 min Scan# 1227
Delta R.T. 0.063 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:122 Resp: 3295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 0.0 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

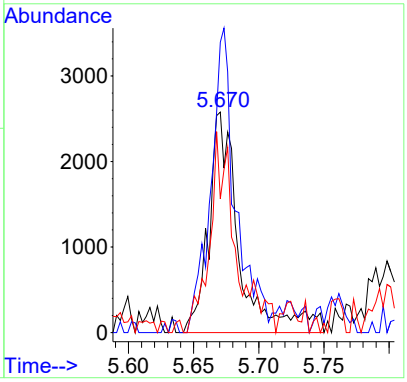


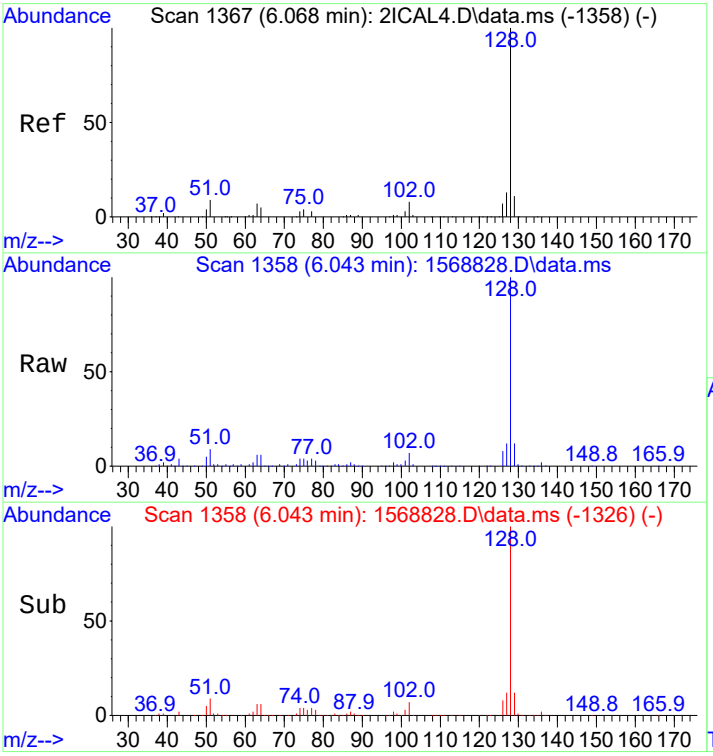



#30
Benzoic acid
Concen: 3.52 ug/mL
RT: 5.670 min Scan# 1227
Delta R.T. -0.099 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:122 Resp: 4202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 131.7 | 96.0 | 156.0 |
| 77 | 70.4 | 46.6 | 106.6 |

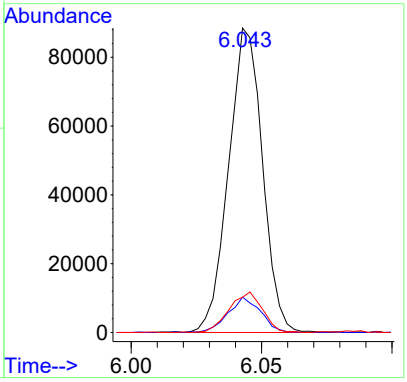


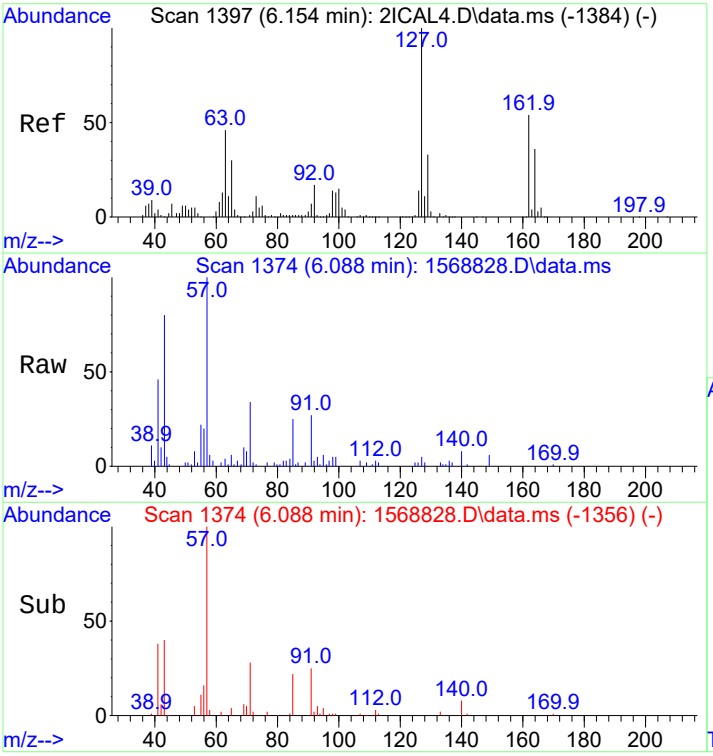




#31
Naphthalene
Concen: 2.04 ug/mL
RT: 6.043 min Scan# 1358
Delta R.T. -0.008 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:128 Resp: 79978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.6 | 0.0 | 41.0 |
| 127 | 11.4 | 0.0 | 43.3 |

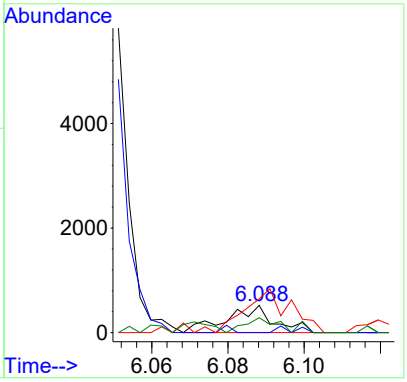


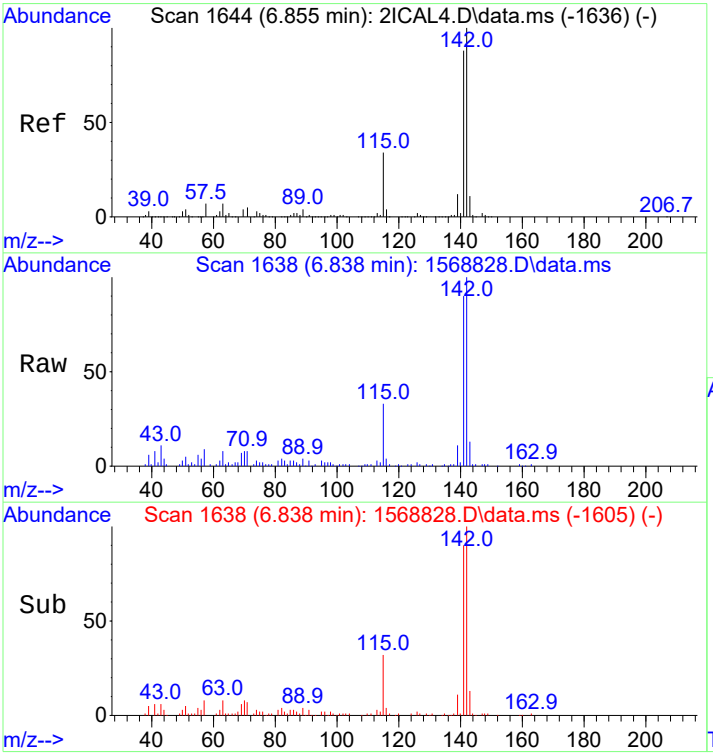



#32
4-Cl-aniline
Concen: 0.03 ug/mL
RT: 6.088 min Scan# 1374
Delta R.T. -0.048 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:127 Resp: 446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 0.0 | 3.1 | 63.1# |
| 65 | 124.7 | 0.2 | 60.2# |
| 92 | 54.5 | 0.0 | 46.7# |

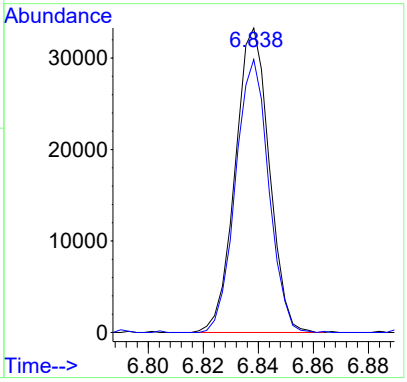


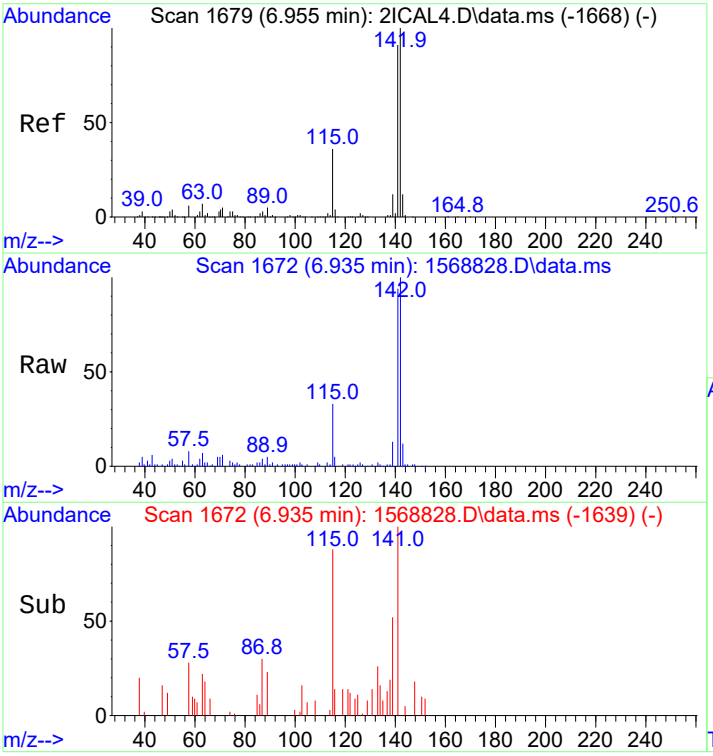




#37
2Methylnaphth
Concen: 1.21 ug/mL
RT: 6.838 min Scan# 1638
Delta R.T. -0.006 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:142 Resp: 28593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.7 | 58.0 | 118.0 |

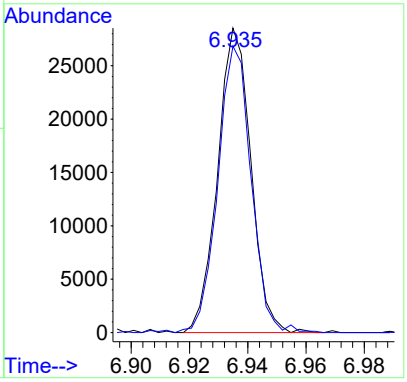


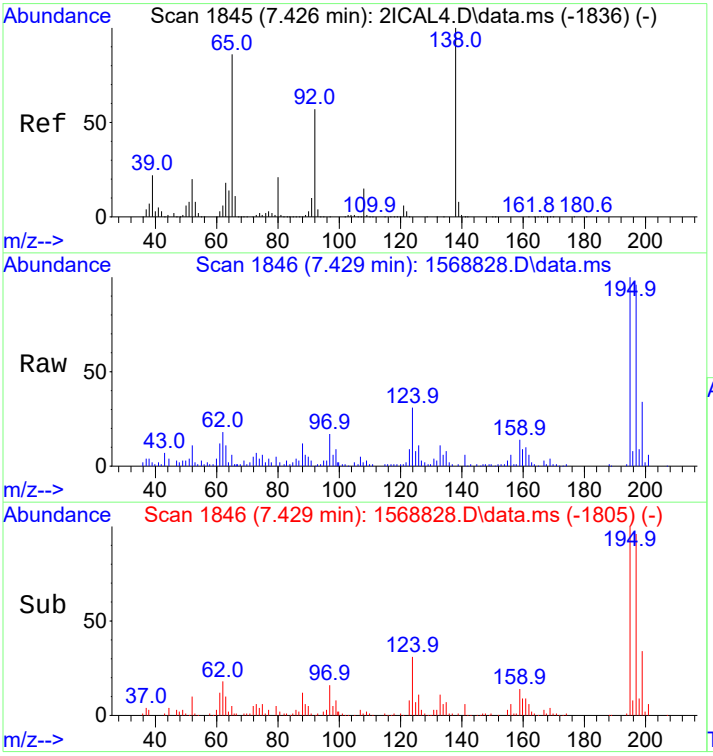



#38
1Methylnaphth
Concen: 0.92 ug/mL
RT: 6.935 min Scan# 1672
Delta R.T. -0.006 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:142 Resp: 22643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 94.1 | 60.7 | 120.7 |

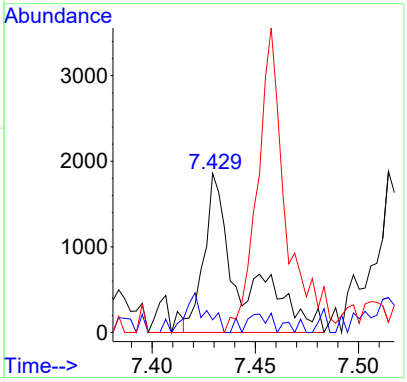


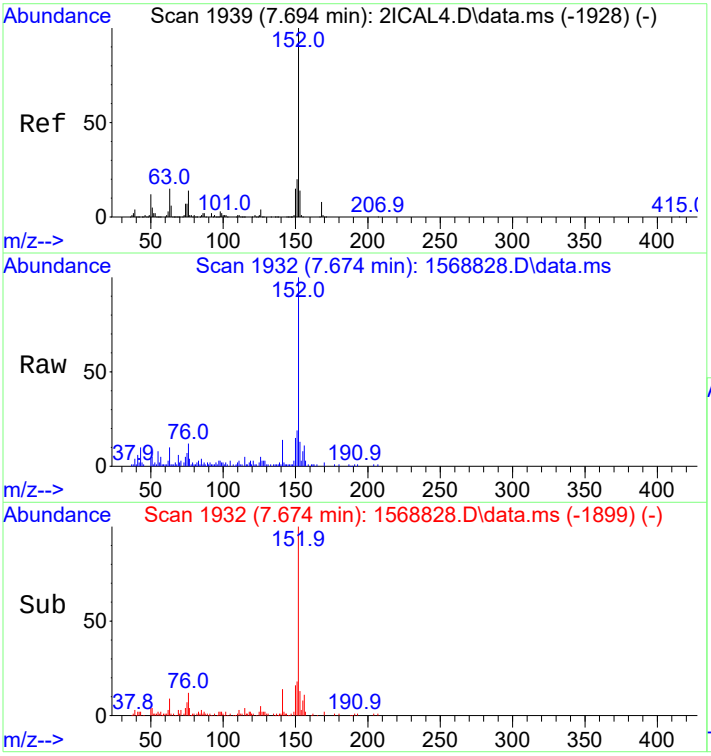




#46
2Nitroaniline
Concen: 0.58 ug/mL
RT: 7.429 min Scan# 1846
Delta R.T. 0.017 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion: 65 Resp: 2320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 0.0 | 36.2 | 96.2# |
| 138 | 7.9 | 85.6 | 145.6# |

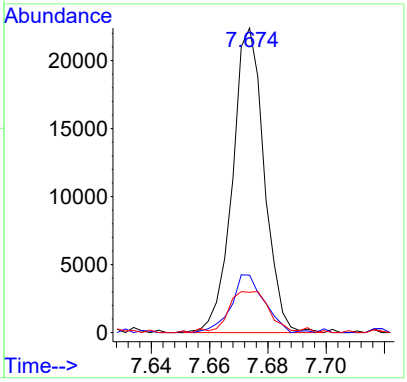


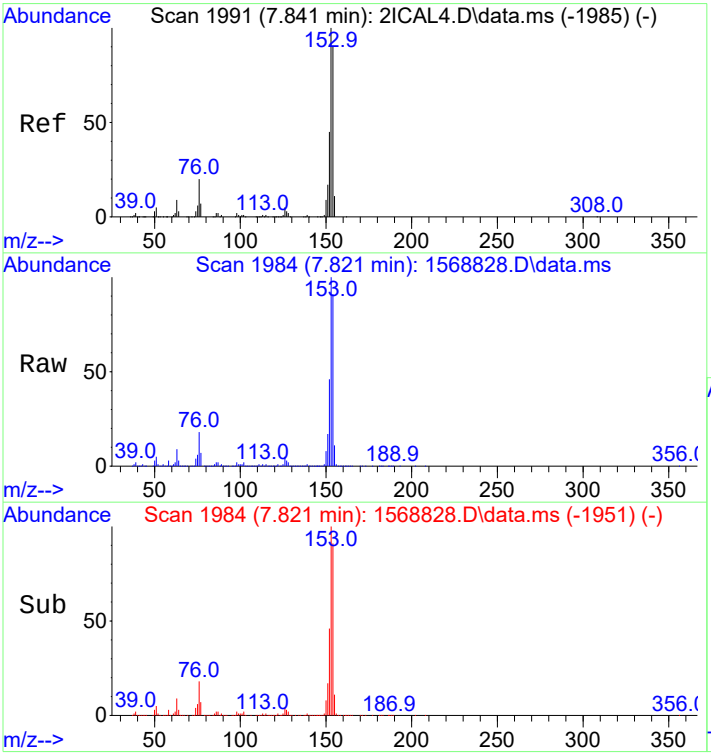



#47
Acnaphthylene
Concen: 0.43 ug/mL
RT: 7.674 min Scan# 1932
Delta R.T. -0.006 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:152 Resp: 16967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 18.4 | 0.0 | 50.3 |
| 153 | 12.7 | 0.0 | 44.4 |

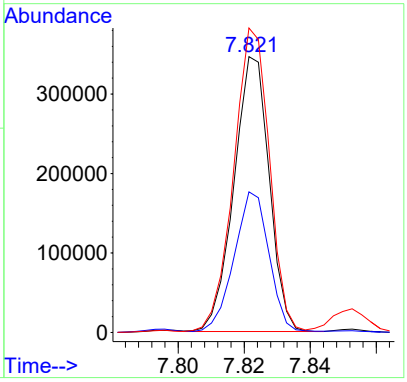


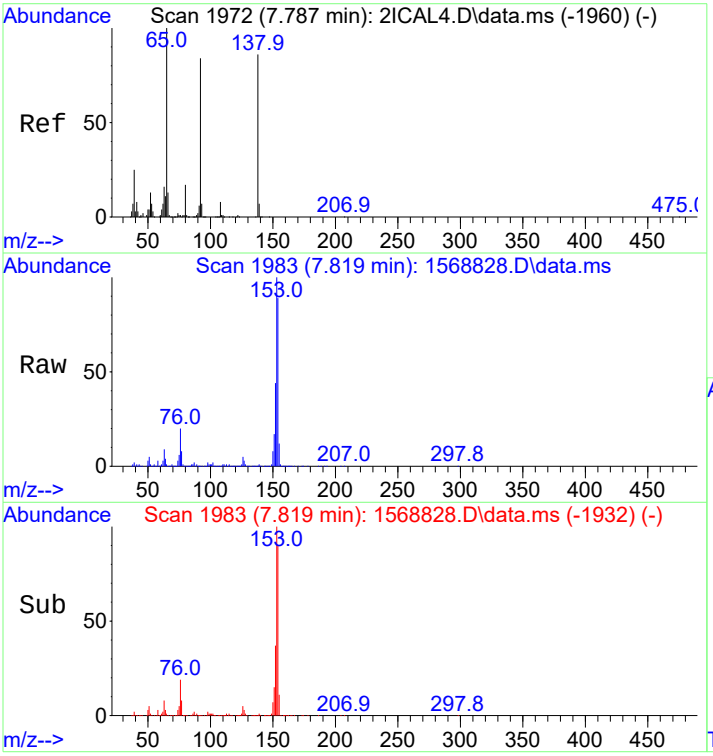




#50
Acenaphthene
Concen: 11.04 ug/mL
RT: 7.821 min Scan# 1984
Delta R.T. -0.006 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:154 Resp: 257308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 50.7 | 20.0 | 80.0 |
| 153 | 110.4 | 80.7 | 140.7 |

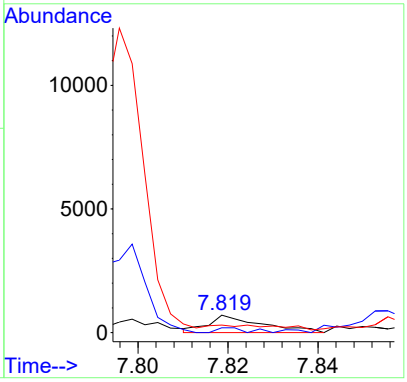


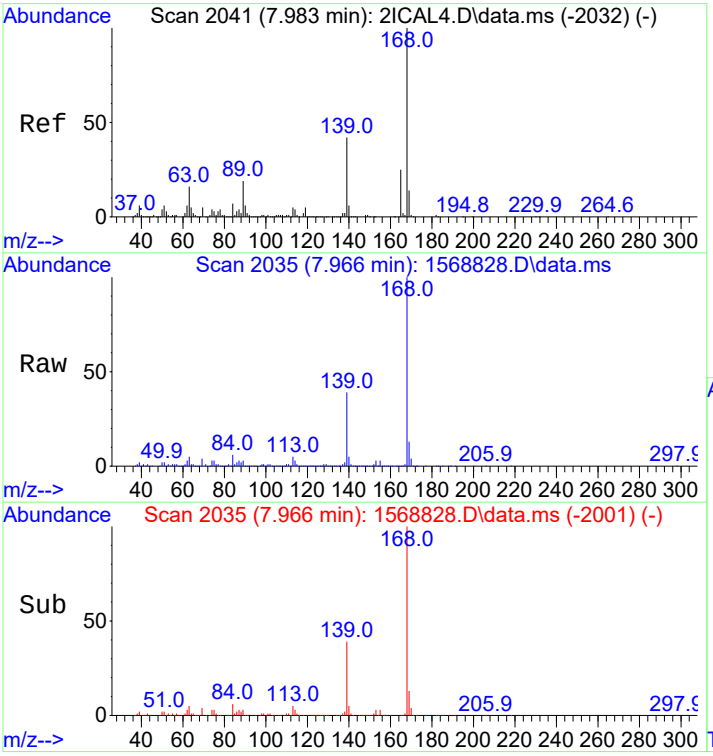



#51
3Nitroaniline
Concen: 0.32 ug/mL
RT: 7.819 min Scan# 1983
Delta R.T. 0.046 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:138 Resp: 580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 67.7 | 127.7# |
| 108 | 20.7 | 0.0 | 38.9 |

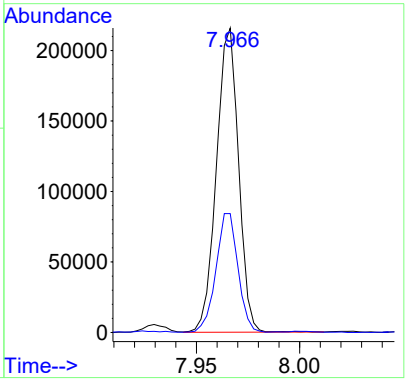


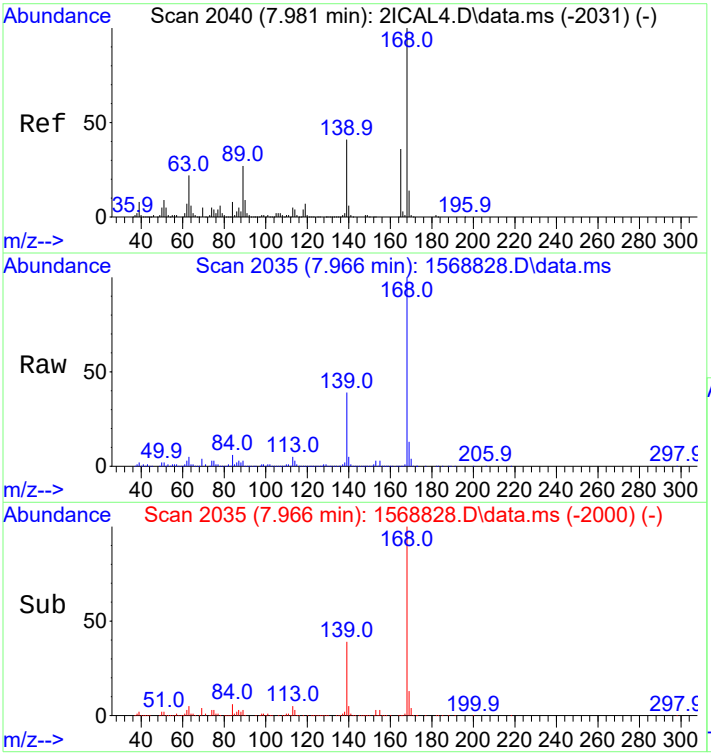




#53
Dibenzofuran
Concen: 4.79 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.003 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:168 Resp: 161033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.0 | 11.9 | 71.9 |

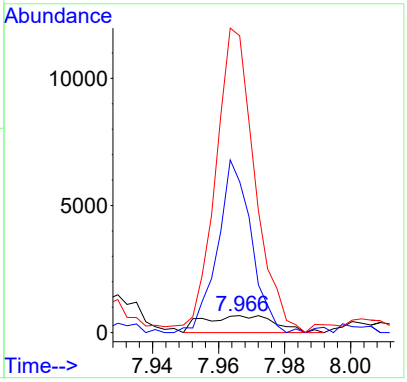


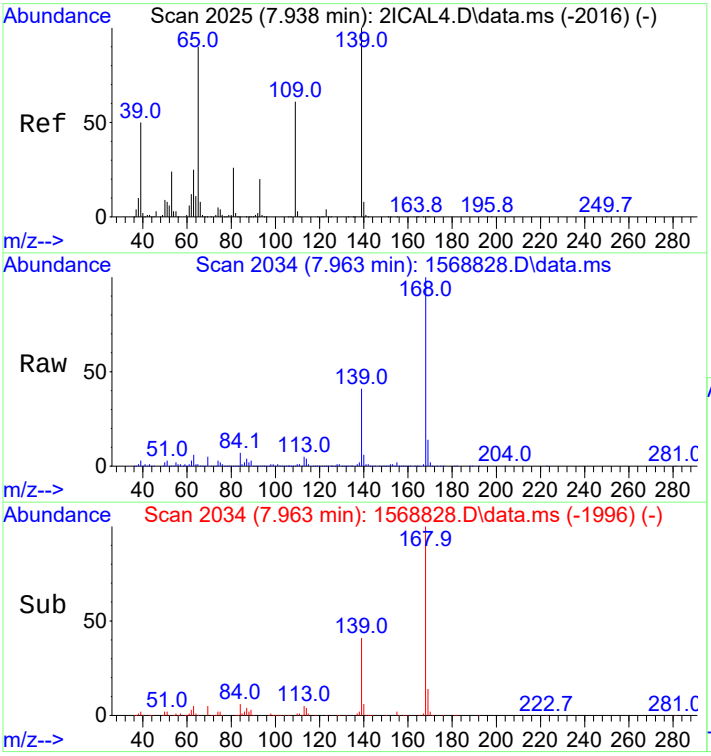



#54
24Dinitrotolu
Concen: 0.12 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. 0.000 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:165 Resp: 1026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 859.9 | 46.1 | 106.1# |
| 63 | 1701.2 | 32.6 | 92.6# |

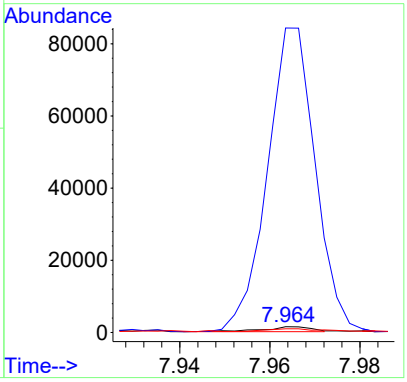


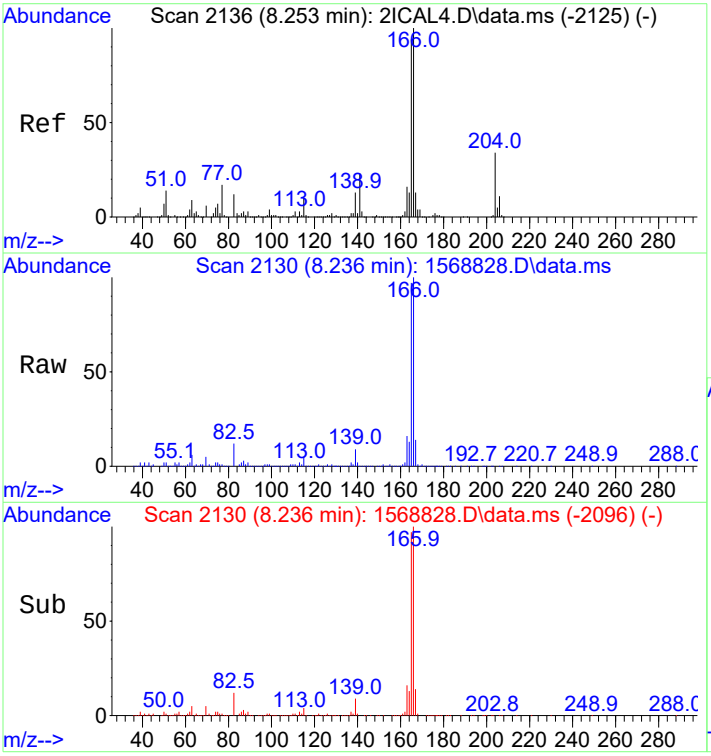




#55
4-Nitrophenol
Concen: 1.46 ug/mL
RT: 7.963 min Scan# 2034
Delta R.T. 0.043 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion: 65 Resp: 1008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 6094.6 | 80.5 | 140.5# |
| 109 | 45.4 | 37.6 | 97.6 |

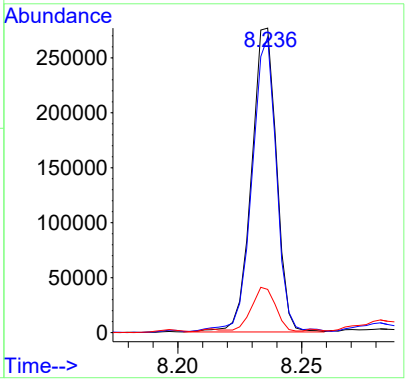


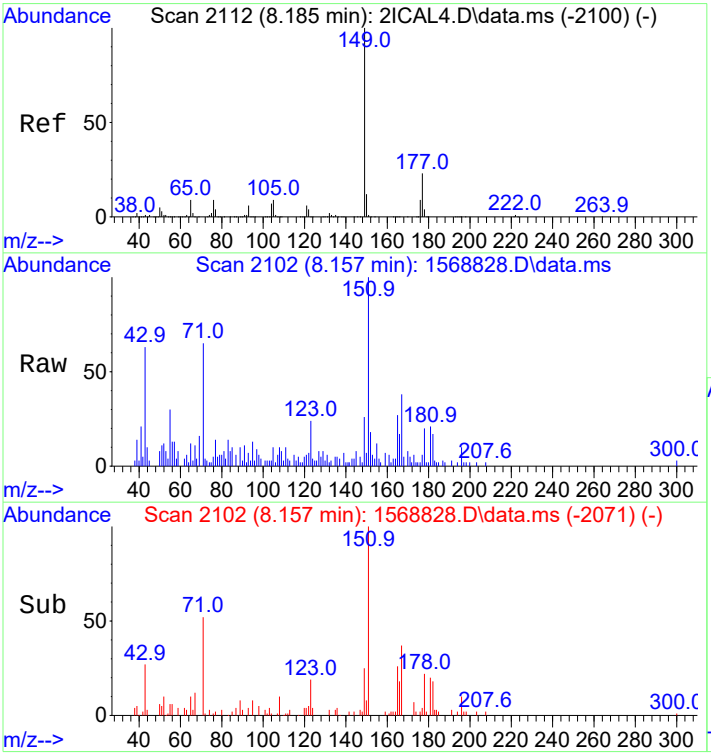



#58
Fluorene
Concen: 7.55 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:166 Resp: 194078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.0 | 63.6 | 123.6 |
| 167 | 13.7 | 0.0 | 43.3 |

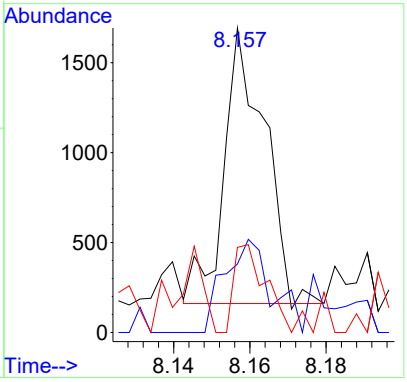


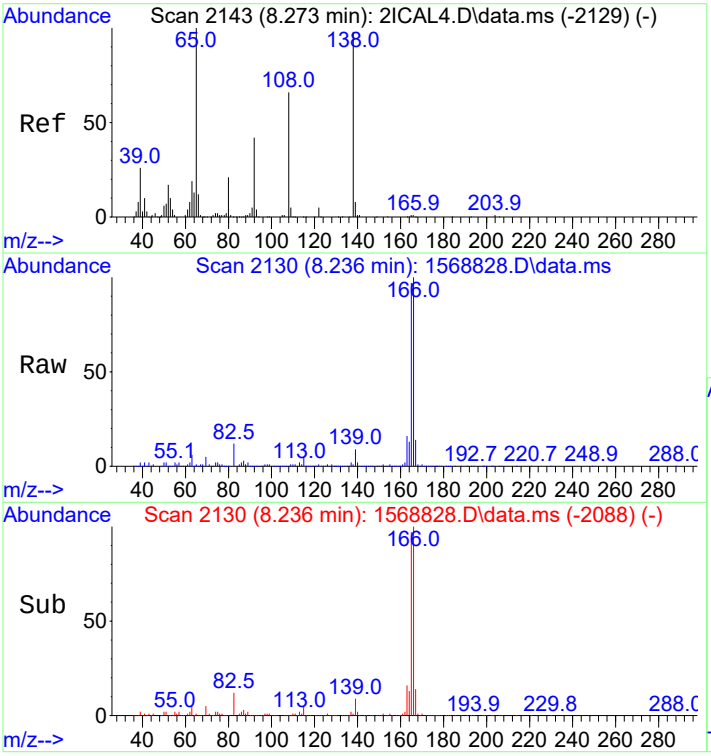




#60
Diethylphthal
Concen: 0.04 ug/mL
RT: 8.157 min Scan# 2102
Delta R.T. -0.011 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:149 Resp: 1139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 24.9 | 0.0 | 52.5 |
| 150 | 17.0 | 0.0 | 42.2 |

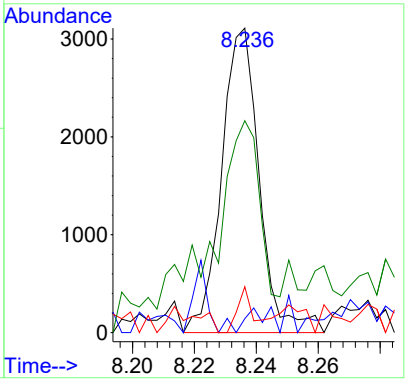


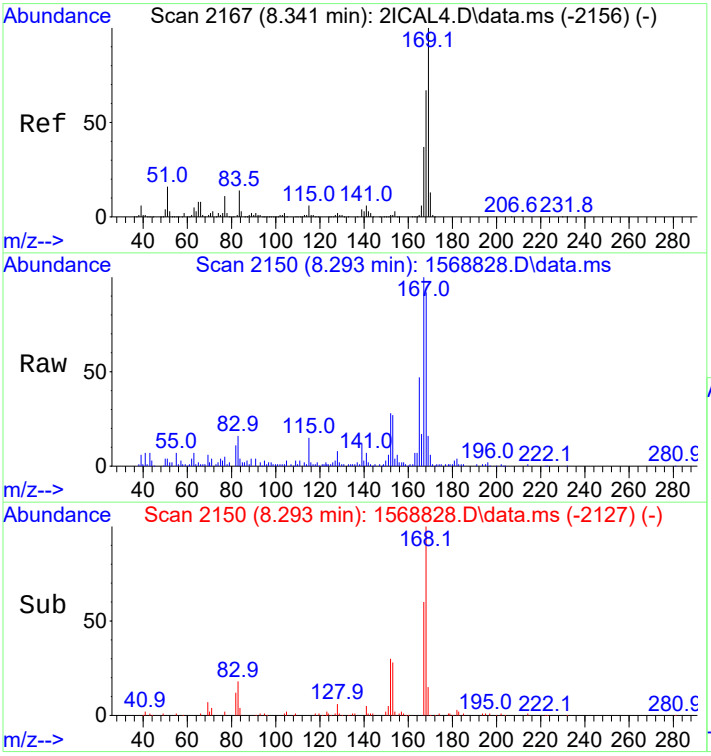



#61
4Nitroaniline
Concen: 0.75 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.020 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:138 Resp: 2637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 4.6 | 12.7 | 72.7# |
| 108 | 11.2 | 36.9 | 96.9# |
| 65 | 52.7 | 71.1 | 131.1# |

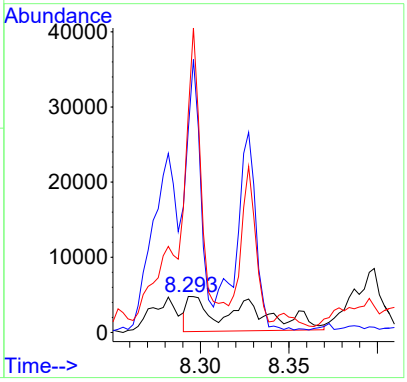


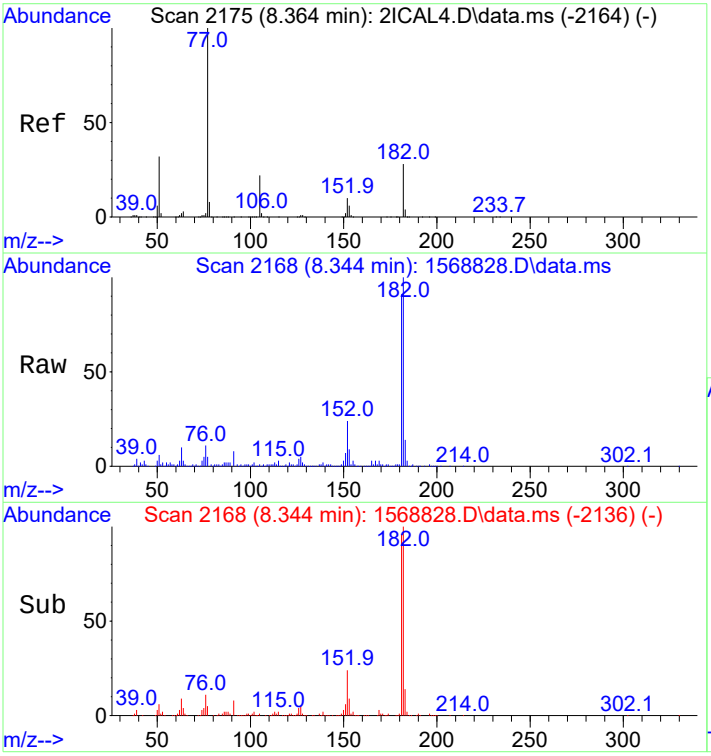




#65
Ntrsdiphlam&Diphlam
Concen: 0.59 ug/mL
RT: 8.293 min Scan# 2150
Delta R.T. -0.034 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:169 Resp: 10782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 696.7 | 37.2 | 97.2# |
| 167 | 729.2 | 6.9 | 66.9# |

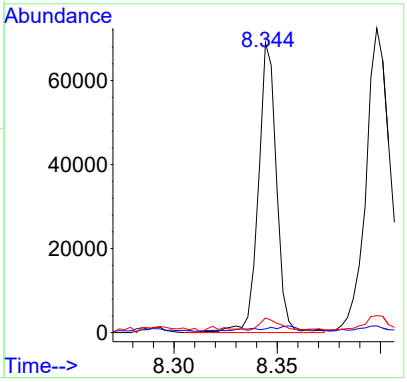


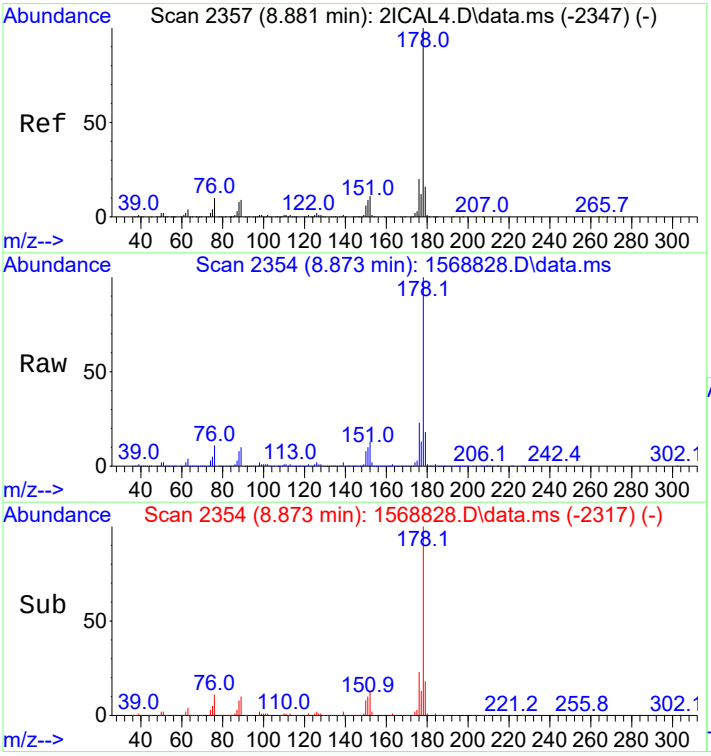



#66
Azobenz&12Diphlhyd
Concen: 6.51 ug/mL
RT: 8.344 min Scan# 2168
Delta R.T. -0.008 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:182 Resp: 42136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.5 | 49.9 | 109.9# |
| 77 | 4.1 | 339.9 | 399.9# |

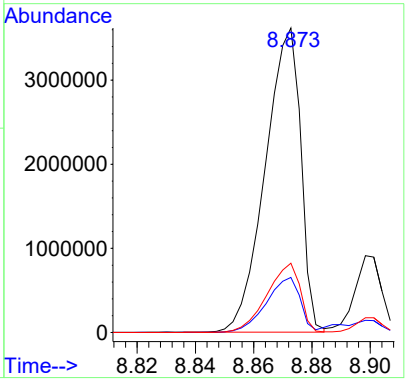


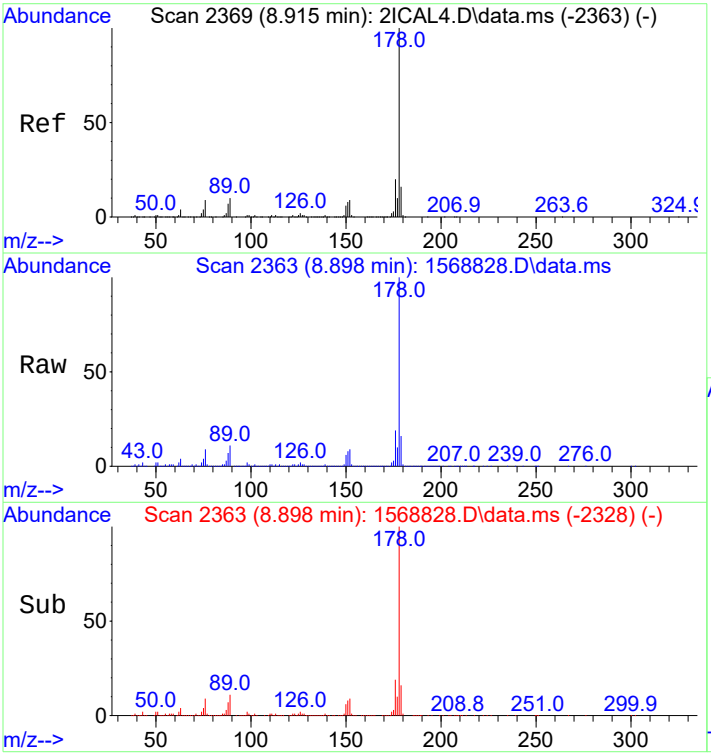




#70
Phenanthrene
Concen: 89.16 ug/mL
RT: 8.873 min Scan# 2354
Delta R.T. 0.006 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:178 Resp: 3056414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 18.1 | 0.0 | 45.9 |
| 176 | 22.8 | 0.0 | 50.4 |

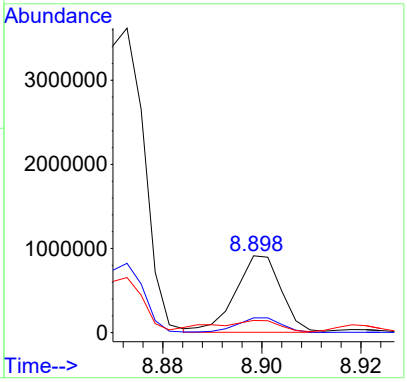


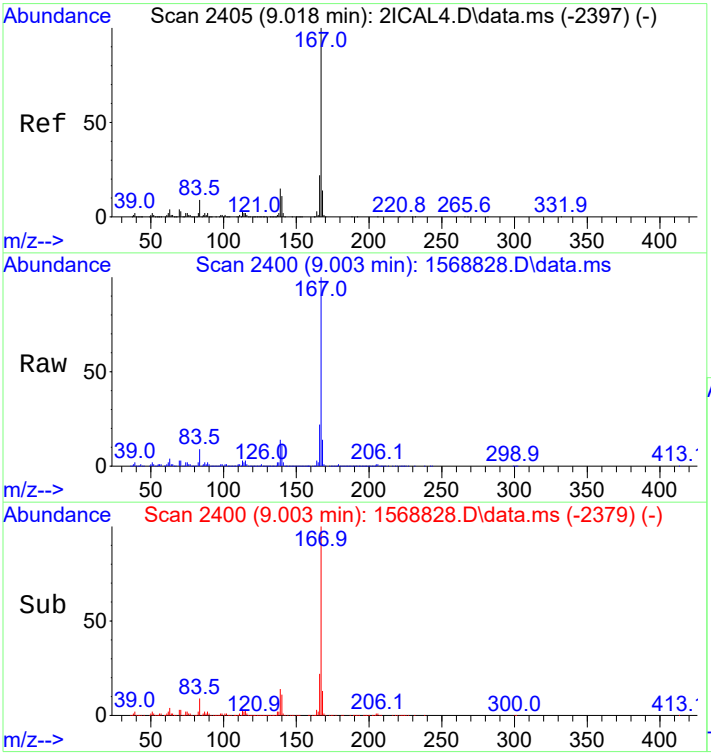



#71
Anthracene
Concen: 16.92 ug/mL
RT: 8.898 min Scan# 2363
Delta R.T. 0.000 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:178 Resp: 589998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 0.0 | 49.5 |
| 179 | 13.2 | 0.0 | 45.9 |

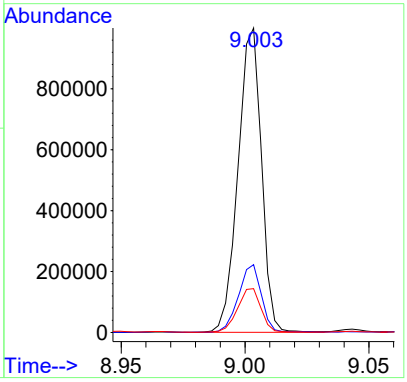


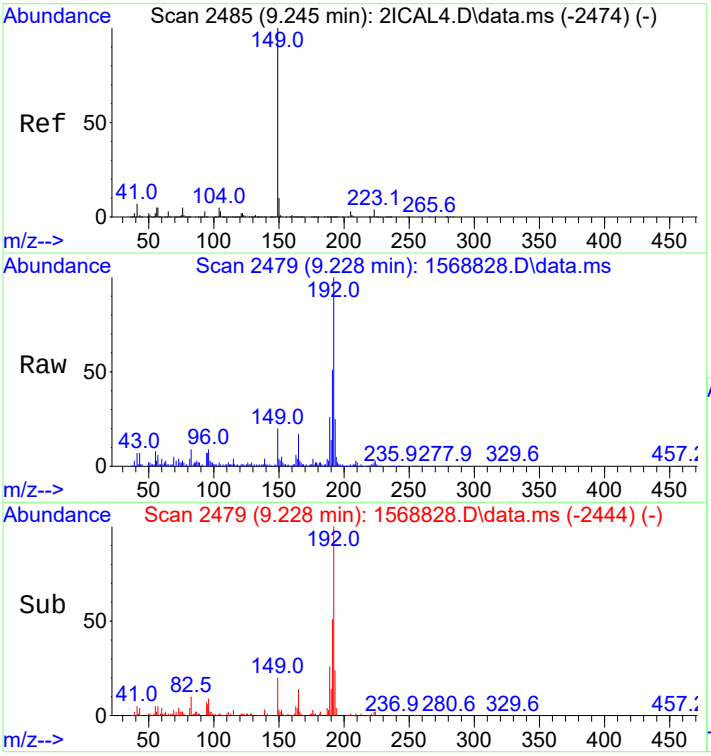




#72
Carbazole
Concen: 22.20 ug/mL
RT: 9.003 min Scan# 2400
Delta R.T. 0.000 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:167 Resp: 659166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.2 | 0.0 | 52.1 |
| 139 | 14.3 | 0.0 | 44.7 |

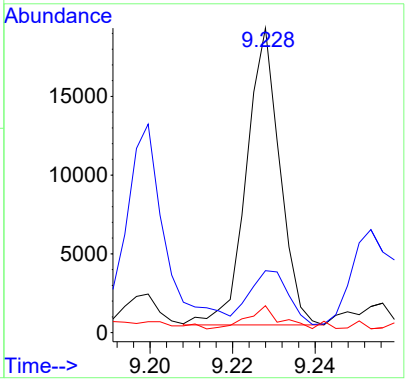


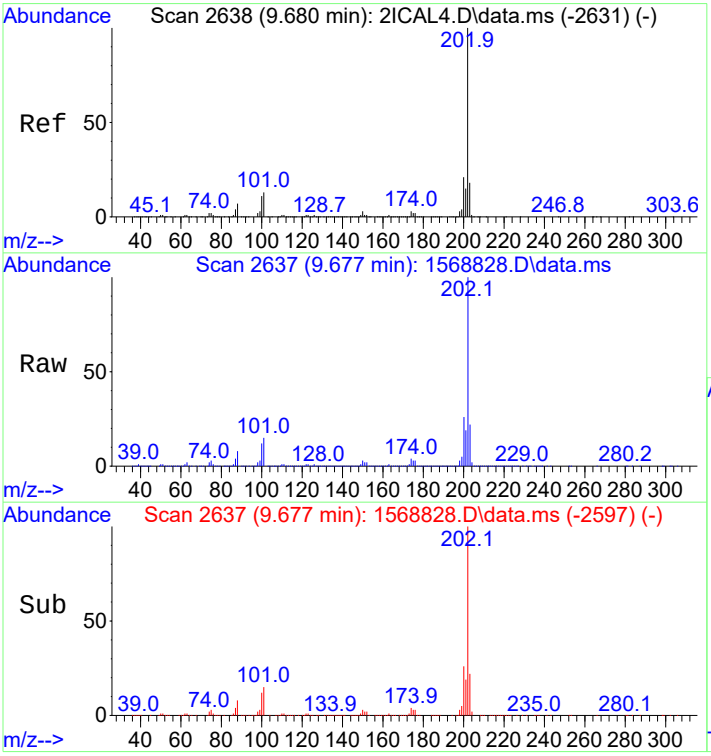



#73
Dinbtylphthal
Concen: 0.25 ug/mL
RT: 9.228 min Scan# 2479
Delta R.T. 0.000 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:149 Resp: 10586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 17.9 | 0.0 | 39.7 |
| 104 | 6.8 | 0.0 | 35.4 |

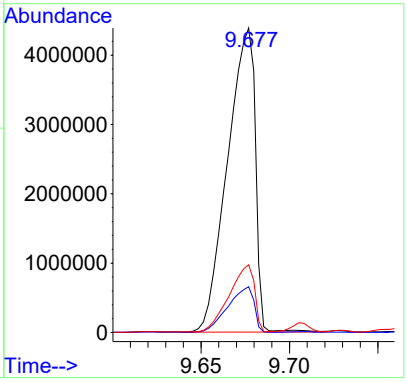


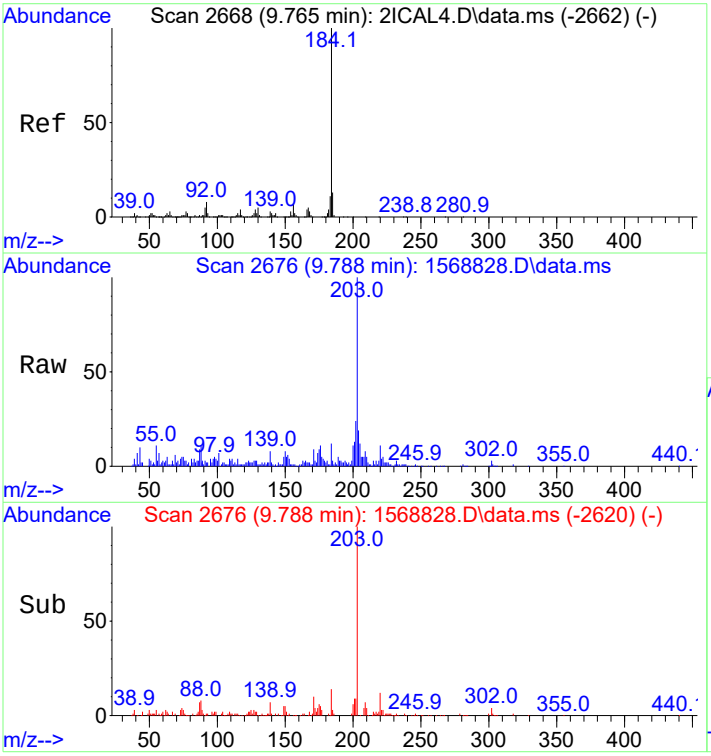




#74
Fluoranthene
Concen: 132.46 ug/mL
RT: 9.677 min Scan# 2637
Delta R.T. 0.014 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:202 Resp: 4794609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 15.0 | 0.0 | 43.0 |
| 203 | 22.1 | 0.0 | 48.2 |

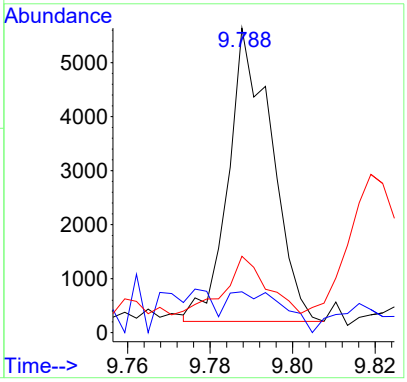


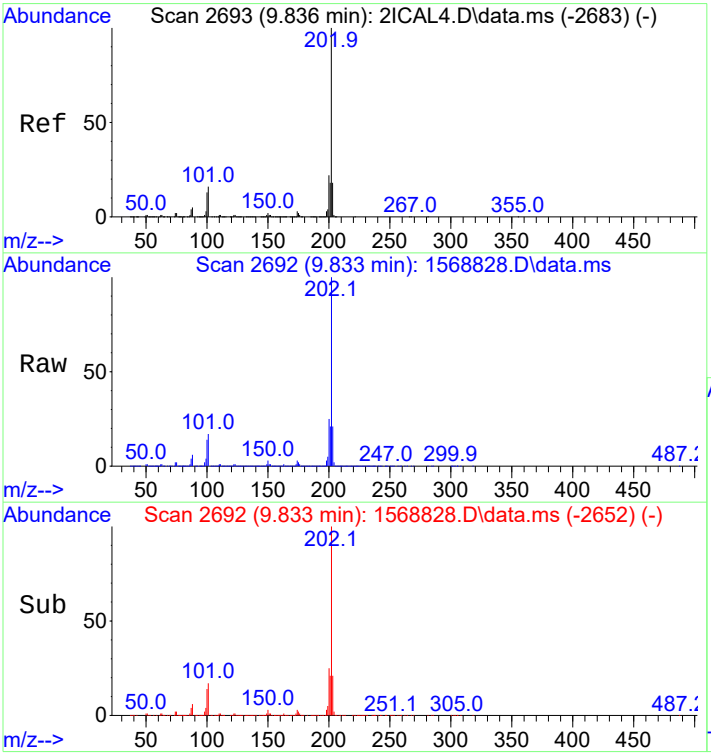



#76
Benzidine
Concen: 0.36 ug/mL
RT: 9.788 min Scan# 2676
Delta R.T. 0.040 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:184 Resp: 3965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 9.1 | 0.0 | 38.2 |
| 185 | 18.7 | 0.0 | 43.3 |

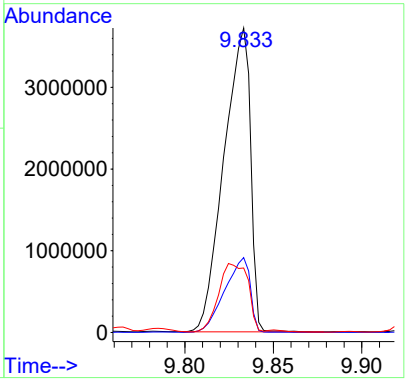


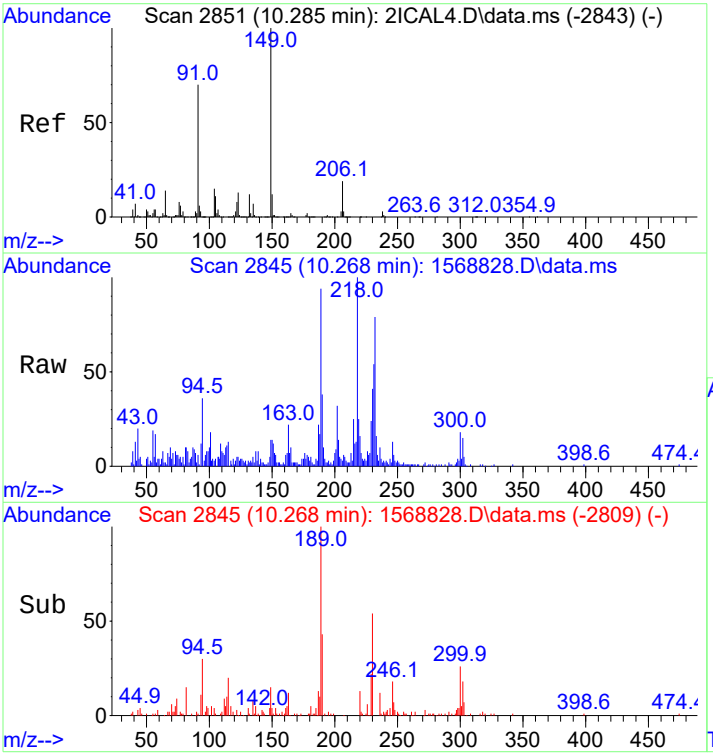




#77
Pyrene
Concen: 107.07 ug/mL
RT: 9.833 min Scan# 2692
Delta R.T. 0.014 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:202 Resp: 3890324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 24.6 | 0.0 | 52.2 |
| 203 | 21.1 | 0.0 | 48.2 |

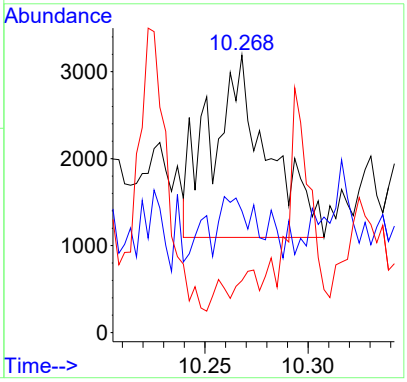


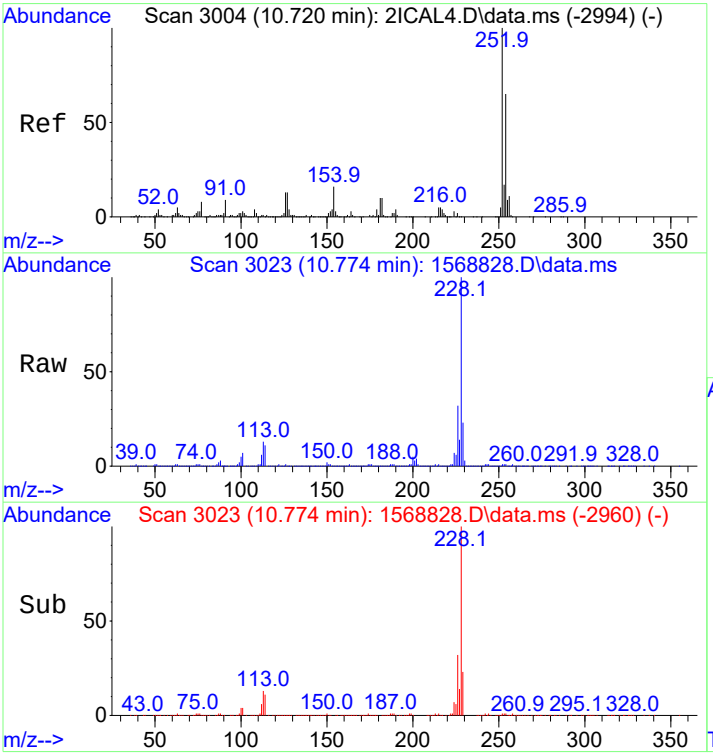



#79
Btylbzylphth
Concen: 0.23 ug/mL
RT: 10.268 min Scan# 2845
Delta R.T. 0.003 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:149 Resp: 4048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 28.1 | 40.1 | 100.1# |
| 206 | 4.9 | 0.0 | 49.4 |

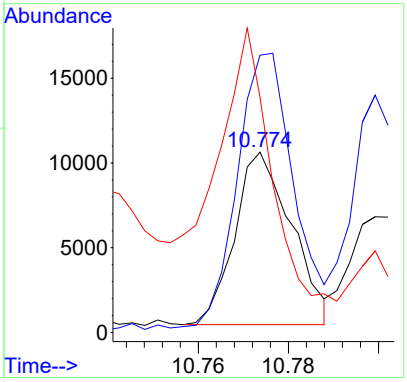


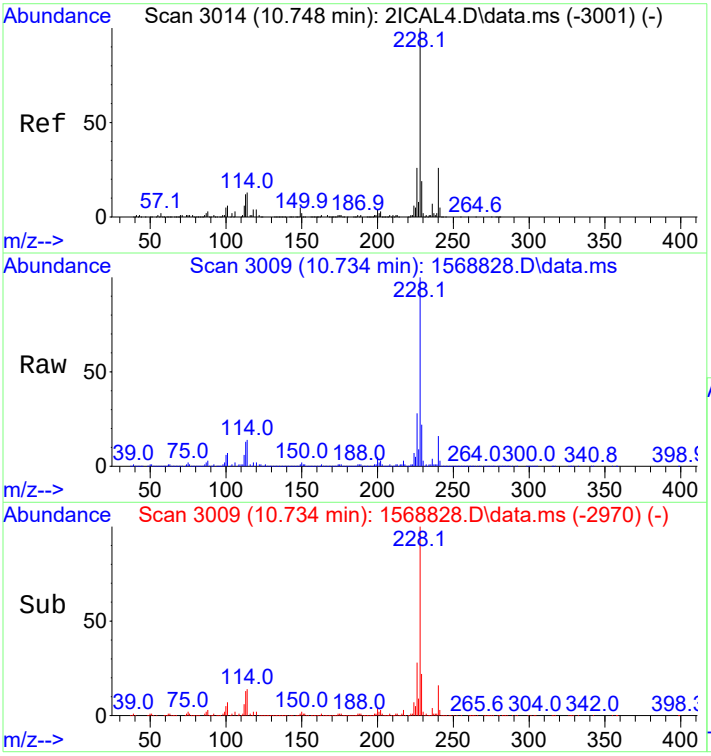




#81
33Diclbnzidin
Concen: 0.95 ug/mL
RT: 10.774 min Scan# 3023
Delta R.T. 0.080 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:252 Resp: 8933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 157.2 | 34.6 | 94.6# |
| 126 | 114.0 | 0.0 | 42.6# |

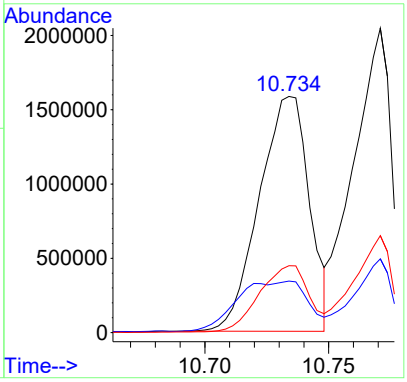


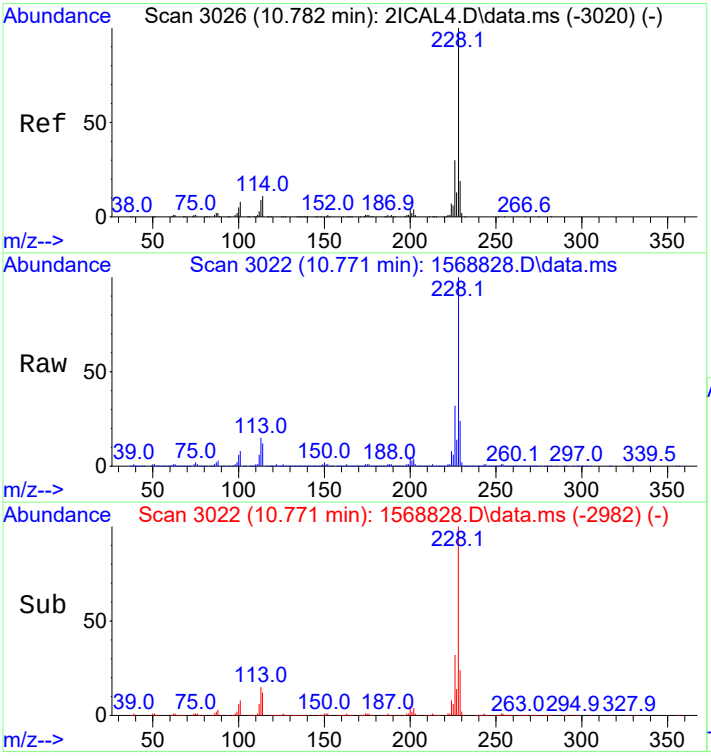



#82
B[a]anthracen
Concen: 64.66 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. 0.011 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:228 Resp: 2226799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 21.3 | 0.0 | 49.4 |
| 226 | 28.2 | 0.0 | 56.5 |

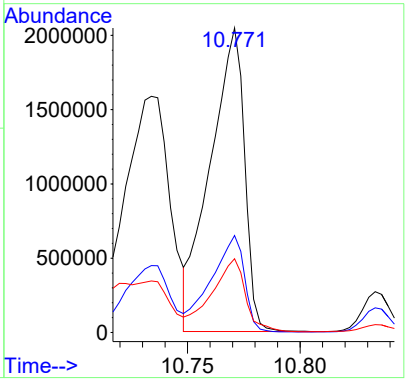


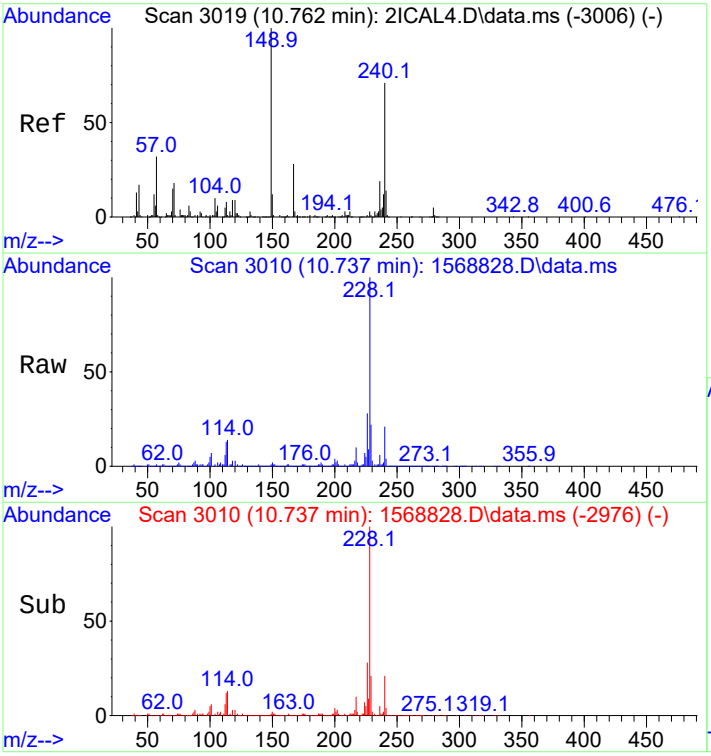




#83
Chrysene
Concen: 67.27 ug/mL
RT: 10.771 min Scan# 3022
Delta R.T. 0.014 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:228 Resp: 2172750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.7 | 0.0 | 59.9 |
| 229 | 24.0 | 0.0 | 49.5 |

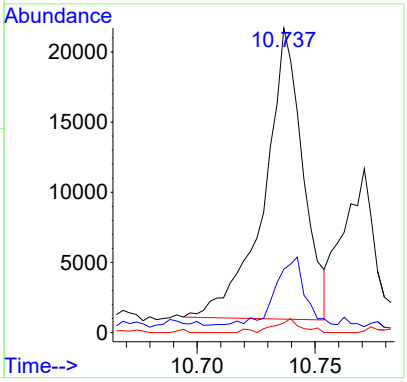


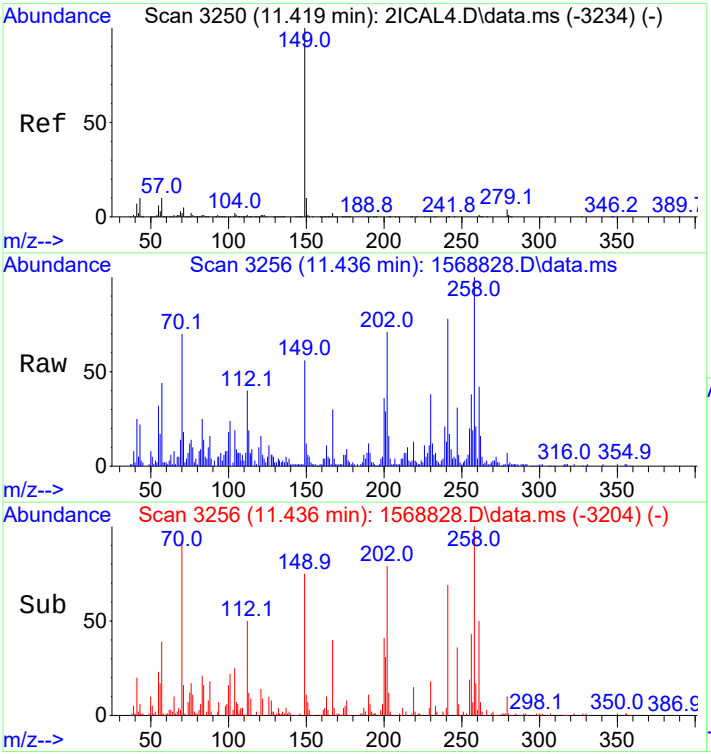



#84
bis2Ethlhxlph
Concen: 0.90 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. -0.003 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:149 Resp: 23655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 18.8 | 0.0 | 57.9 |
| 279 | 3.3 | 0.0 | 34.9 |

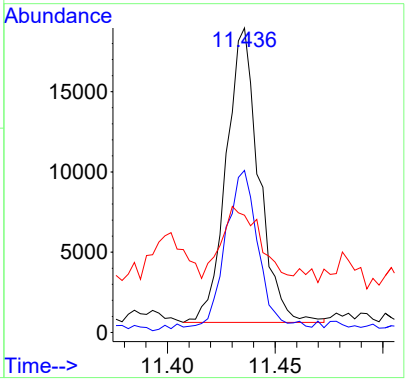


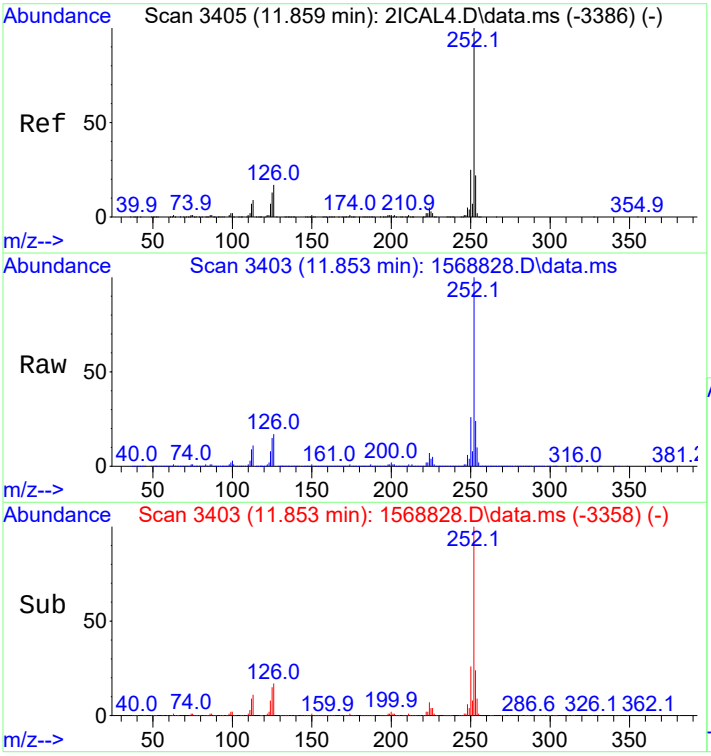




#85
Dinoctylphthl
Concen: 0.75 ug/mL
RT: 11.436 min Scan# 3256
Delta R.T. 0.048 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:149 Resp: 19356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 53.4 | 0.0 | 31.6# |
| 43 | 23.8 | 0.0 | 39.9 |

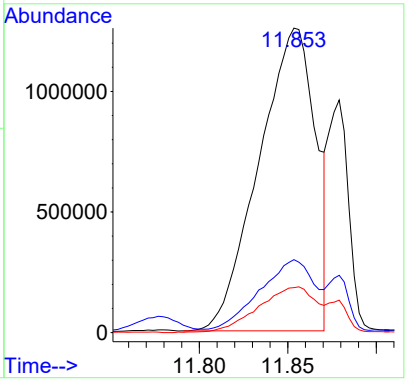


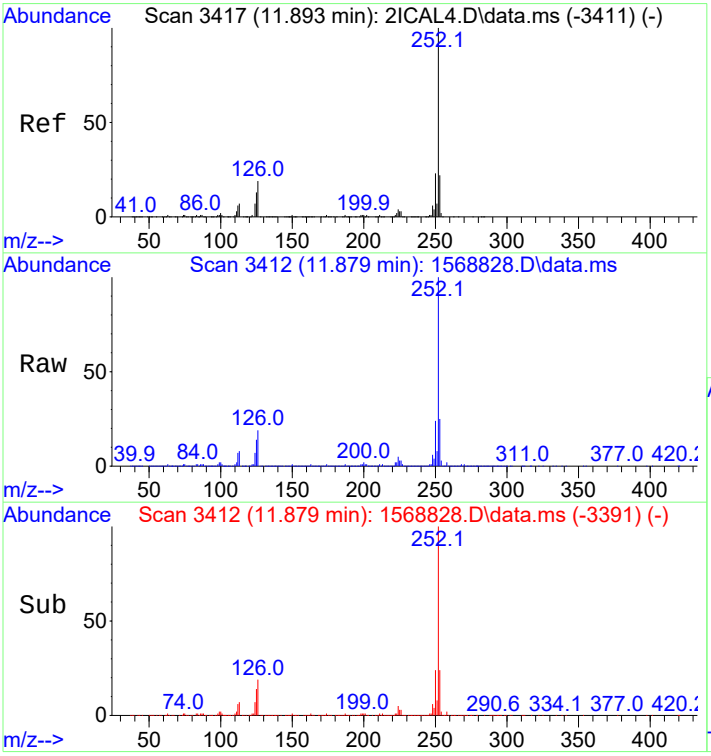



#87
B[b]fluoranth
Concen: 103.27 ug/mL
RT: 11.853 min Scan# 3403
Delta R.T. 0.028 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:252 Resp: 2798144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 0.0 | 52.3 |
| 125 | 14.8 | 0.0 | 43.2 |

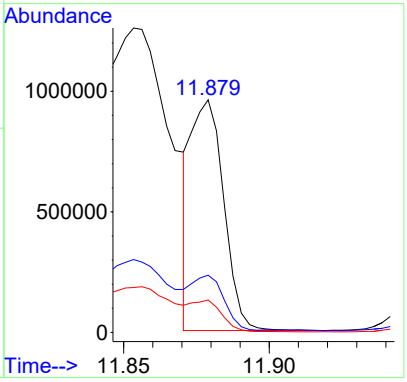


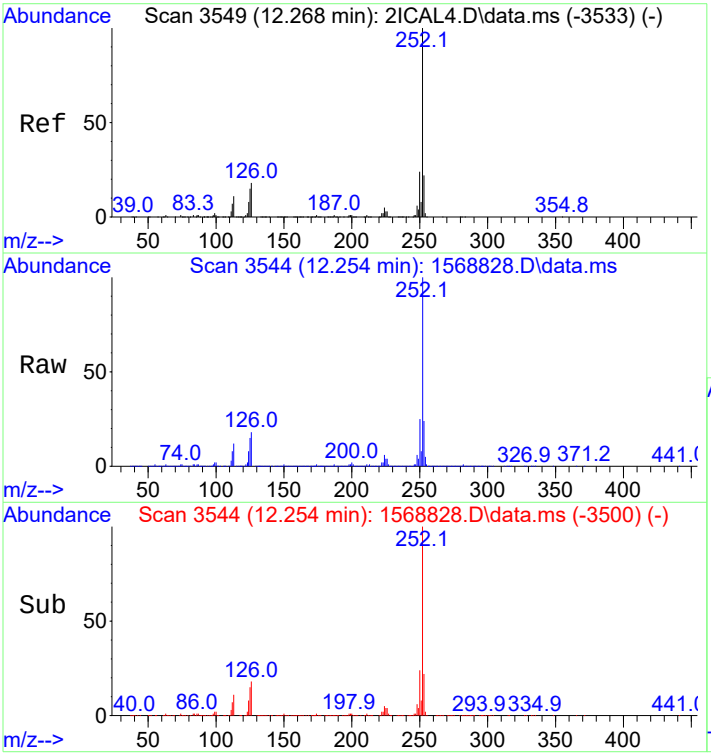




#88
B[k]fluoranth
Concen: 27.46 ug/mL
RT: 11.879 min Scan# 3412
Delta R.T. 0.020 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:252 Resp: 745450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 0.0 | 52.0 |
| 125 | 13.8 | 0.0 | 43.3 |

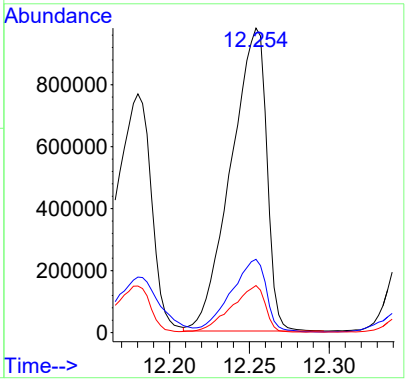


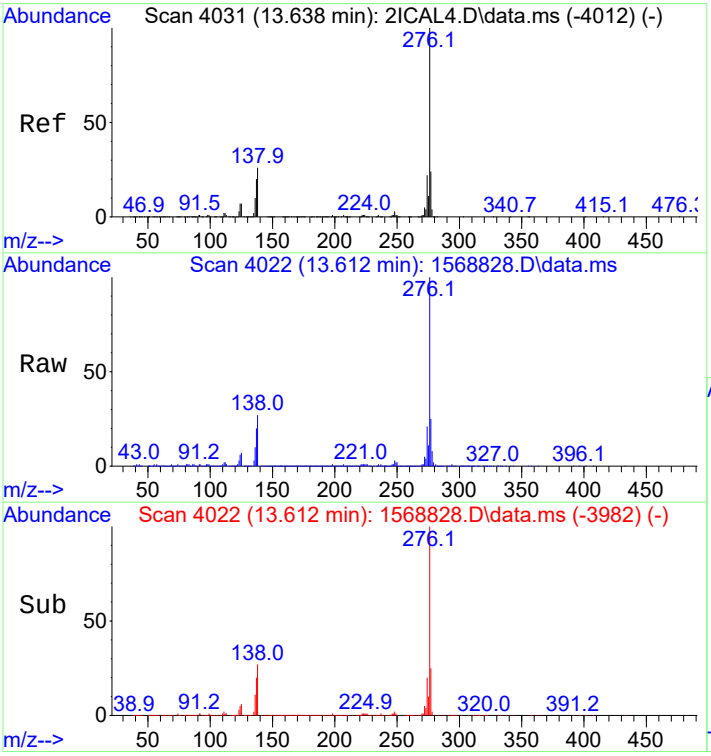



#89
Benz[a]pyrene
Concen: 61.05 ug/mL
RT: 12.254 min Scan# 3544
Delta R.T. 0.026 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:252 Resp: 1521273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 0.0 | 52.3 |
| 125 | 15.4 | 0.0 | 45.1 |

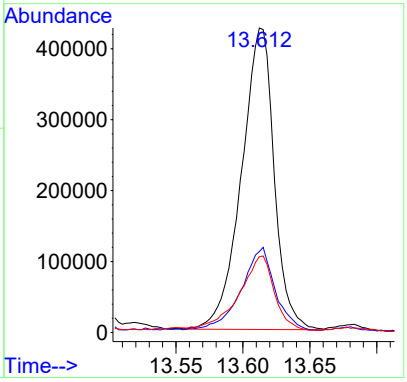


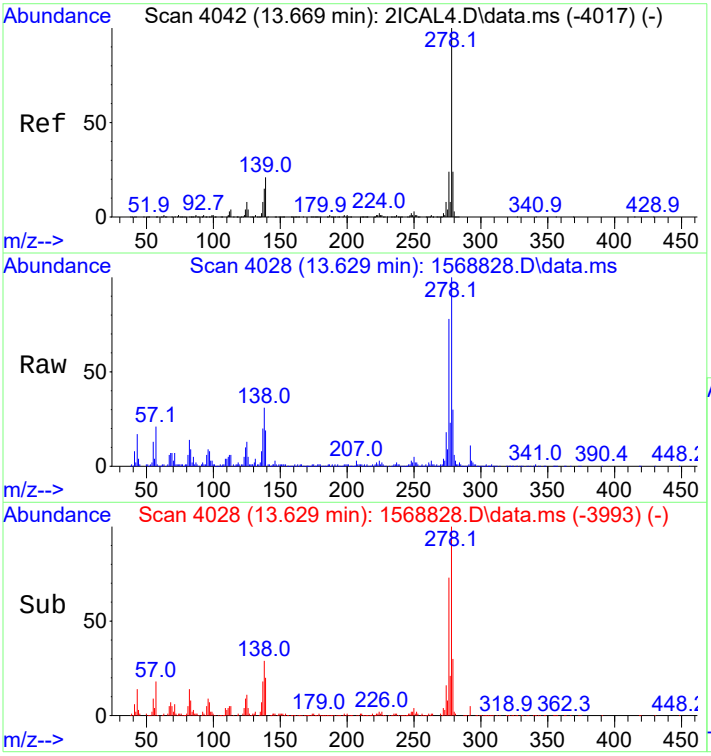




#90
Indeno-pyrene
Concen: 26.23 ug/mL
RT: 13.612 min Scan# 4022
Delta R.T. 0.014 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:276 Resp: 722878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.0 | 0.0 | 55.5 |
| 277 | 24.3 | 0.0 | 54.0 |

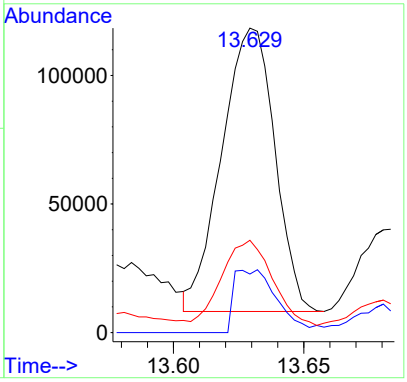


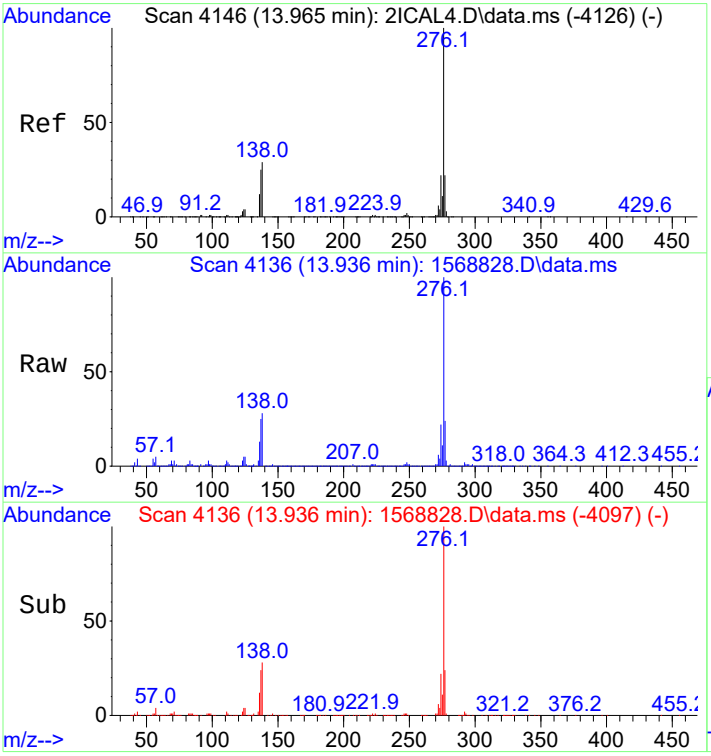



#91
Dib[ah]anthr
Concen: 6.92 ug/mL
RT: 13.629 min Scan# 4028
Delta R.T. 0.000 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:278 Resp: 156005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.7 | 0.0 | 50.9 |
| 279 | 29.3 | 0.0 | 54.4 |

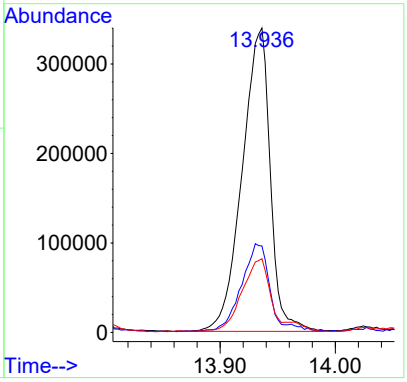



#92
B[ghi]perylen
Concen: 26.59 ug/mL
RT: 13.936 min Scan# 4136
Delta R.T. 0.011 min
Lab File: 1568828.D
Acq: 10 Apr 2025 17:41

Tgt Ion:276 Resp: 574121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.1 | 0.0 | 59.0 |
| 277 | 23.9 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568823.D Vial: 28
Acq On : 10 Apr 2025 19:14 Operator: ALD
Sample : 290730,1568823, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 19:31:18 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.326 | 152 | 180859 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.017 | 136 | 880723 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.796 | 164 | 496364 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.850 | 188 | 720928 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.740 | 240 | 587151 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.311 | 264 | 443530 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.105 | 112 | 274462 | 63.03 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 63.03% | | | |
| 7) SURRPhenol-d5 | 3.912 | 99 | 355464 | 67.92 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 67.92% | | | |
| 22) SURRNitrbenzened5 | 5.008 | 82 | 162951 | 67.90 | %REC | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 67.90% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 411980 | 69.57 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 69.57% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 76658 | 57.70 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 57.70% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 419125 | 73.20 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 73.20% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.269 | 74 | 1081 | 0.1544 | ug/mL# | 1 |
| 3) Pyridine | 2.607 | 79 | 6804 | 0.5438 | ug/mL | 95 |
| 14) bis2clispreth | 4.630 | 45 | 4086 | 0.1965 | ug/mL | 71 |
| 17) Acetophenone | 4.815 | 105 | 2040 | 0.1206 | ug/mL# | 47 |
| 24) Isophorone | 5.389 | 82 | 2008 | 0.0822 | ug/mL | 72 |
| 26) 24Dimthpheno | 5.673 | 122 | 4058 | 0.3428 | ug/mL# | 7 |
| 30) Benzoic acid | 5.673 | 122 | 4820 | 3.5824 | ug/mL# | 75 |
| 31) Naphthalene | 6.043 | 128 | 73350 | 1.8058 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.085 | 127 | 334 | 0.0211 | ug/mL# | 56 |
| 37) 2Methylnaphth | 6.838 | 142 | 20764 | 0.8458 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.935 | 142 | 15612 | 0.6149 | ug/mL | 96 |
| 47) Acnaphthylene | 7.674 | 152 | 9821 | 0.2445 | ug/mL | 91 |
| 50) Acenaphthene | 7.821 | 154 | 149812 | 6.2749 | ug/mL | 98 |
| 53) Dibenzofuran | 7.966 | 168 | 93688 | 2.7174 | ug/mL | 95 |
| 54) 24Dinitrotolu | 7.961 | 165 | 1160 | 0.1331 | ug/mL# | 1 |
| 55) 4-Nitrophenol | 7.938 | 65 | 937 | 1.4395 | ug/mL# | 15 |
| 56) 2,3,5,6-Tetrachlorop | 8.057 | 232 | 209 | 0.5799 | ug/mL# | 39 |
| 57) 2,3,4,6-Tetrachlorop | 8.057 | 232 | 209 | 0.3547 | ug/mL# | 31 |
| 58) Fluorene | 8.236 | 166 | 113793 | 4.3175 | ug/mL | 98 |
| 60) Diethylphthal | 8.159 | 149 | 5122 | 0.1754 | ug/mL | 83 |
| 61) 4Nitroaniline | 8.236 | 138 | 1519 | 0.5650 | ug/mL# | 50 |
| 65) Ntrsdiphlam&Diphlam | 8.327 | 169 | 3526 | 0.1897 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.344 | 182 | 23535 | 3.5509 | ug/mL# | 1 |
| 69) Pentaclphenol | 8.714 | 266 | 552 | 3.4211 | ug/mL# | 21 |
| 70) Phenanthrene | 8.870 | 178 | 1793359 | 51.0590 | ug/mL | 98 |
| 71) Anthracene | 8.898 | 178 | 341076 | 9.5446 | ug/mL | 96 |
| 72) Carbazole | 9.001 | 167 | 356649 | 11.7205 | ug/mL | 100 |
| 73) Dinbtylphthal | 9.225 | 149 | 5989 | 0.1407 | ug/mL | 98 |
| 74) Fluoranthene | 9.671 | 202 | 2791403 | 75.2632 | ug/mL | 96 |
| 76) Benzidine | 9.788 | 184 | 1558 | Below Cal | | 78 |
| 77) Pyrene | 9.827 | 202 | 2252451 | 60.3960 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.774 | 252 | 4752 | 0.3674 | ug/mL# | 16 |
| 82) B[a]anthracen | 10.728 | 228 | 1148504 | 32.4896 | ug/mL | 99 |
| 83) Chrysene | 10.762 | 228 | 1189871 | 35.8904 | ug/mL | 97 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568823.D Vial: 28
Acq On : 10 Apr 2025 19:14 Operator: ALD
Sample : 290730,1568823, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 19:31:18 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

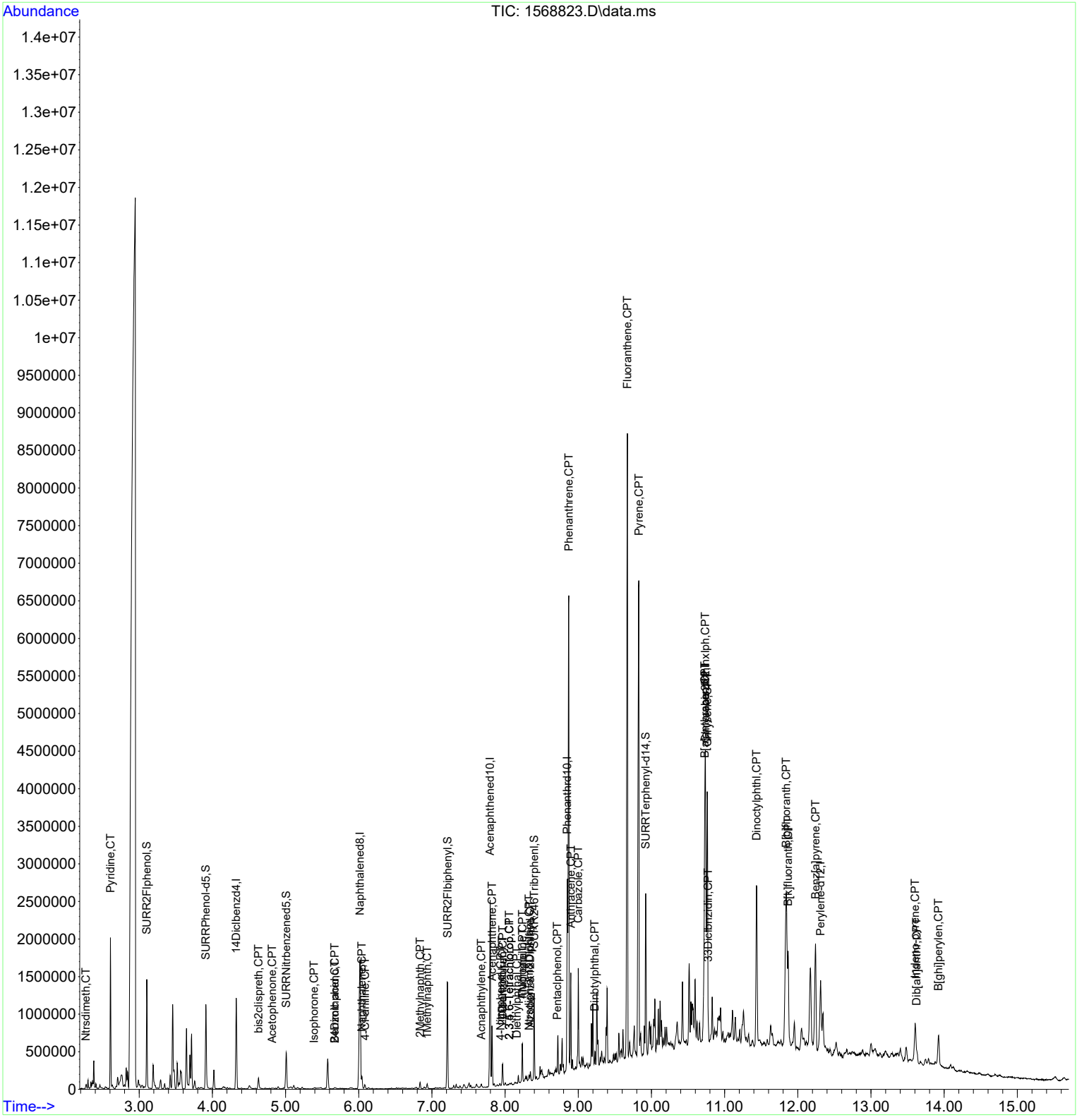
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 84) bis2Ethlhxlph | 10.737 | 149 | 9597 | 0.3567 ug/mL | 89 |
| 85) Dinoctylphthl | 11.436 | 149 | 224569 | 5.1870 ug/mL# | 52 |
| 87) B[b]fluoranth | 11.842 | 252 | 1332145 | 56.7001 ug/mL | 99 |
| 88) B[k]fluoranth | 11.868 | 252 | 422141 | 17.9333 ug/mL | 97 |
| 89) Benz[a]pyrene | 12.243 | 252 | 708614 | 32.7962 ug/mL | 98 |
| 90) Indeno-pyrene | 13.604 | 276 | 295784 | 12.3770 ug/mL | 97 |
| 91) Dib[ah]anthr | 13.624 | 278 | 65839 | 3.3704 ug/mL | 91 |
| 92) B[ghi]perylen | 13.922 | 276 | 229358 | 12.2499 ug/mL | 97 |

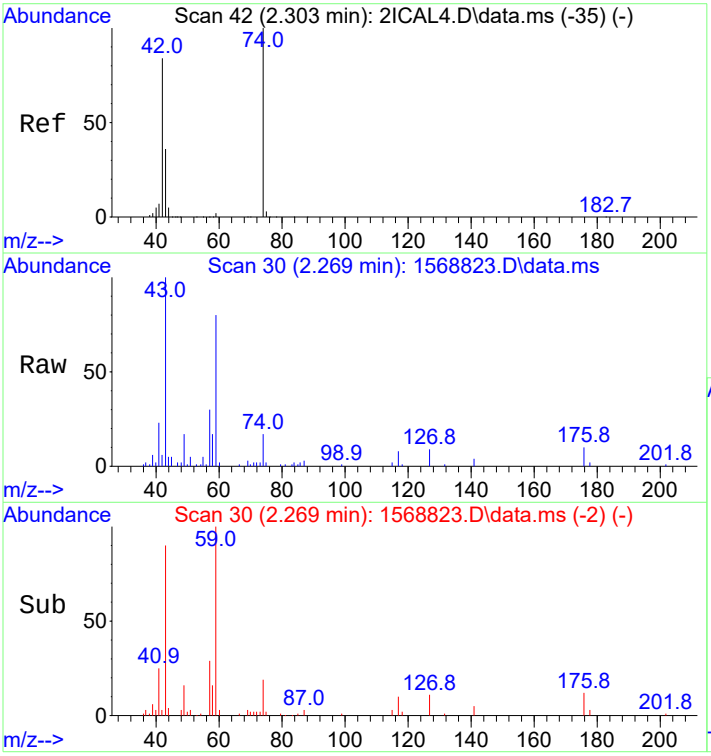
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568823.D Vial: 28
Acq On : 10 Apr 2025 19:14 Operator: ALD
Sample : 290730,1568823, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 19:31:18 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

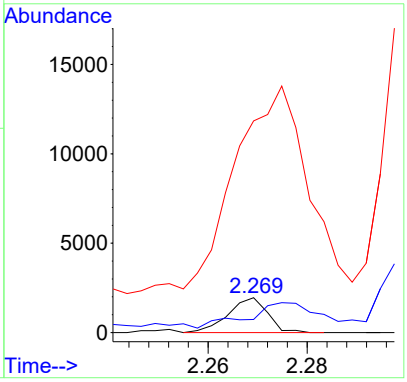


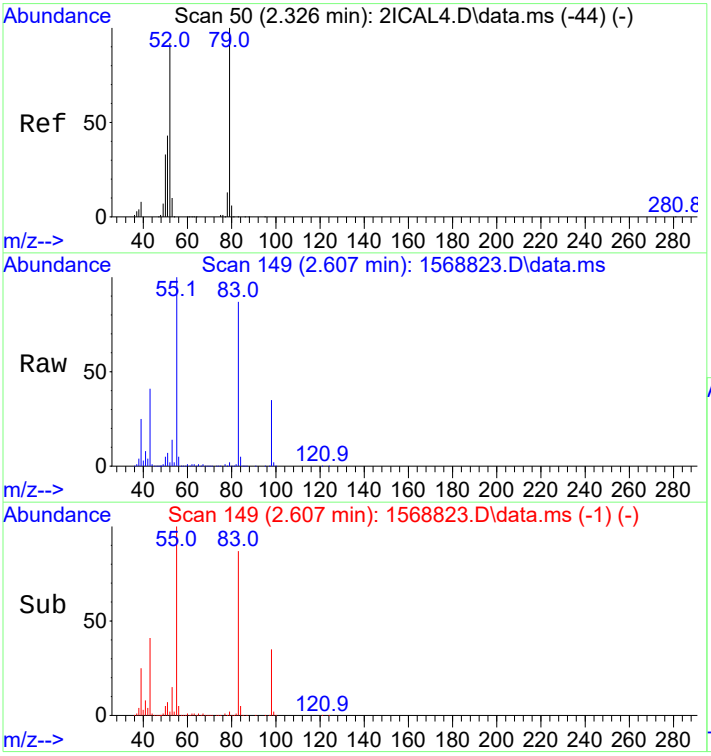



#2
Ntrsdimeth
Concen: 0.15 ug/mL
RT: 2.269 min Scan# 30
Delta R.T. -0.020 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion: 74 Resp: 1081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 12.3 | 53.9 | 113.9# |
| 43 | 480.8 | 6.0 | 66.0# |

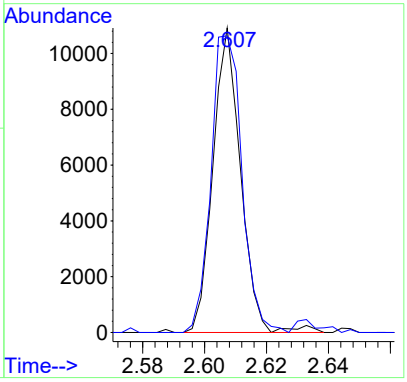


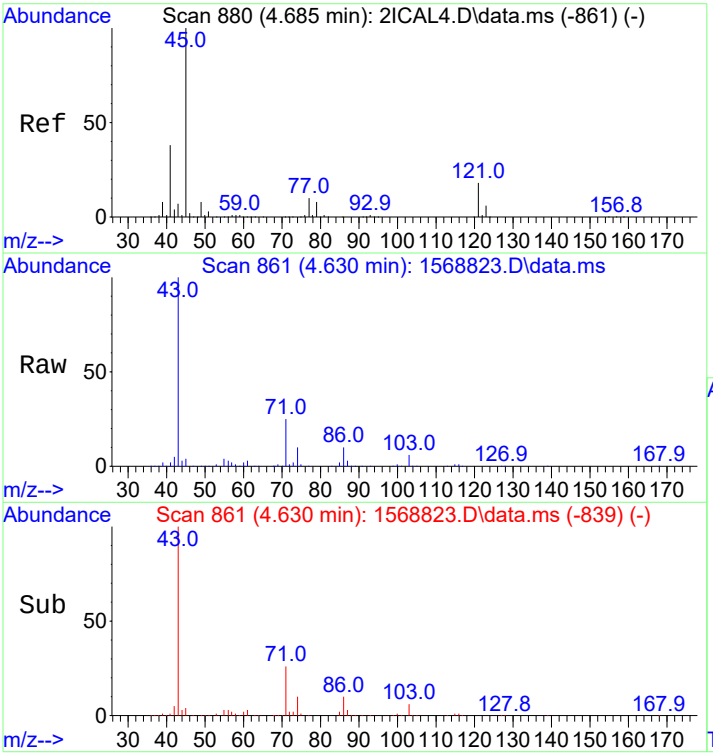




#3
Pyridine
Concen: 0.54 ug/mL
RT: 2.607 min Scan# 149
Delta R.T. 0.298 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion: 79 Resp: 6804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 97.4 | 62.5 | 122.5 |

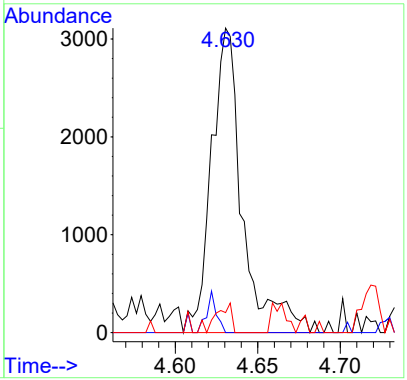


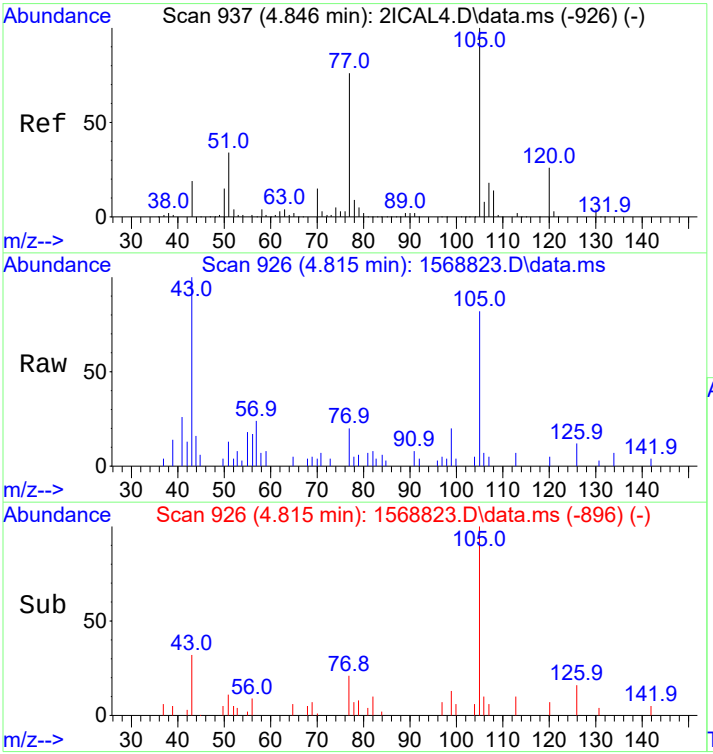



#14
bis2clispreth
Concen: 0.20 ug/mL
RT: 4.630 min Scan# 861
Delta R.T. -0.037 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion: 45 Resp: 4086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 0.0 | 0.0 | 47.5 |
| 77 | 6.6 | 0.0 | 40.1 |

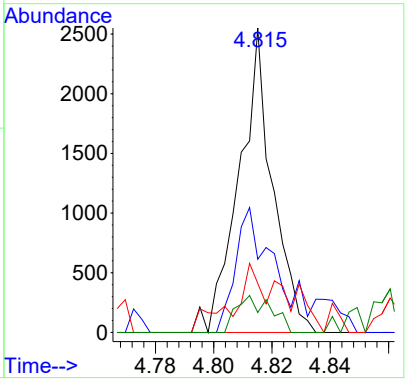


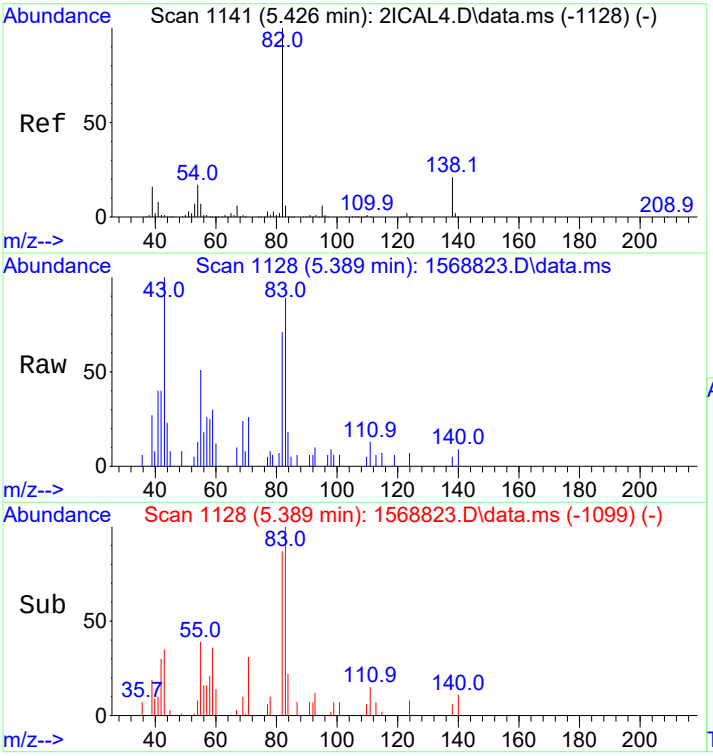




#17
Acetophenone
Concen: 0.12 ug/mL
RT: 4.815 min Scan# 926
Delta R.T. -0.014 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:105 Resp: 2040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 18.6 | 46.3 | 106.3# |
| 51 | 16.1 | 3.7 | 63.7 |
| 120 | 6.5 | 0.0 | 55.6 |

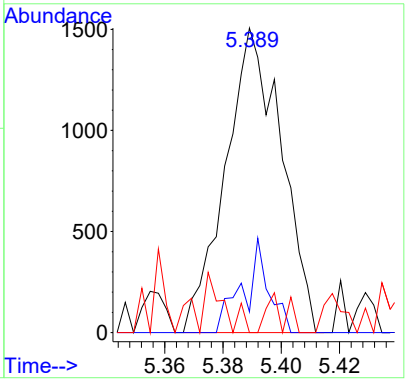


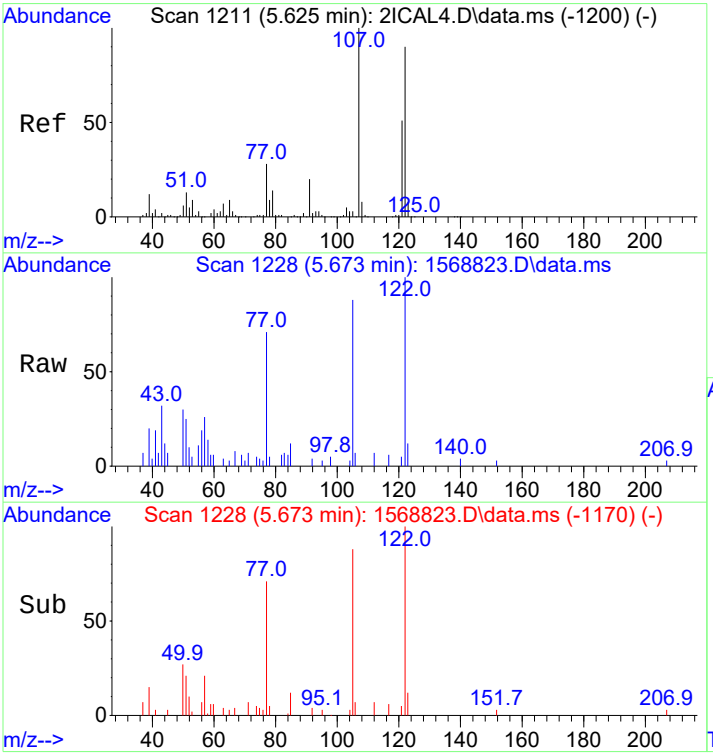



#24
Isophorone
Concen: 0.08 ug/mL
RT: 5.389 min Scan# 1128
Delta R.T. -0.017 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion: 82 Resp: 2008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 138 | 6.8 | 0.0 | 51.2 |
| 95 | 0.0 | 0.0 | 36.4 |

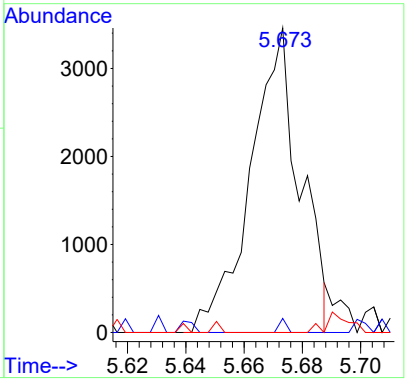


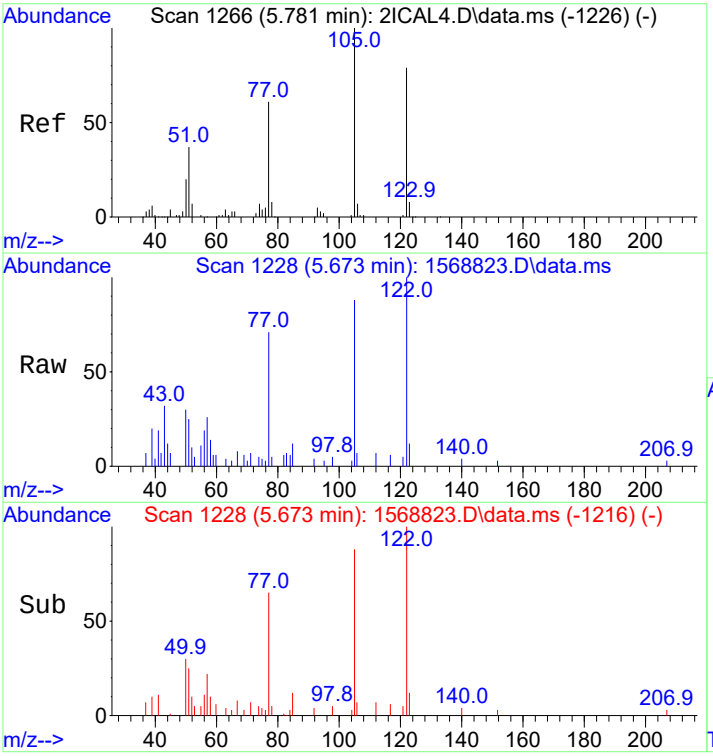




#26
24Dimthpheno
Concen: 0.34 ug/mL
RT: 5.673 min Scan# 1228
Delta R.T. 0.065 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:122 Resp: 4058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 4.6 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

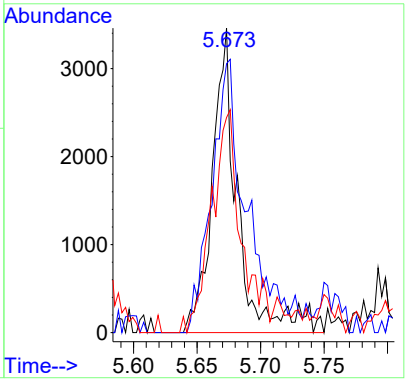


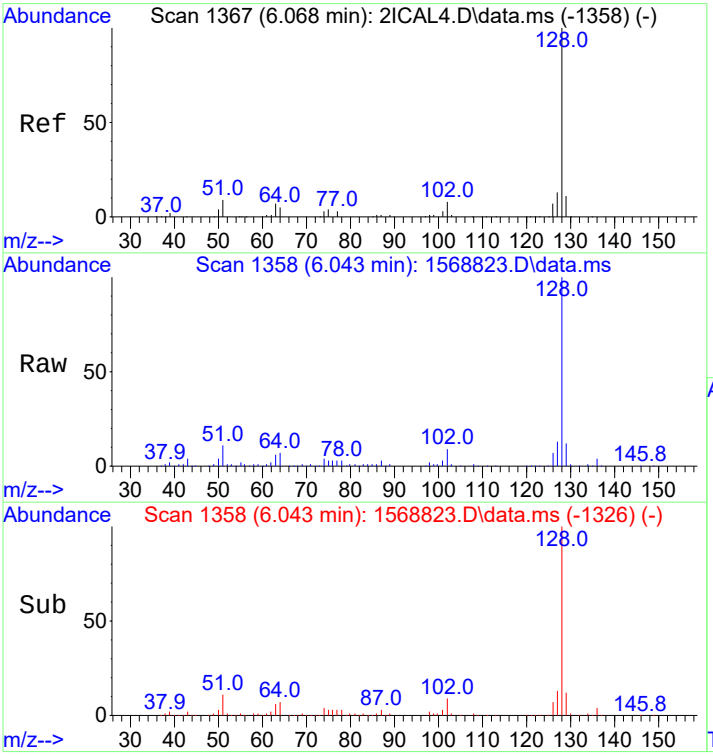



#30
Benzoic acid
Concen: 3.58 ug/mL
RT: 5.673 min Scan# 1228
Delta R.T. -0.097 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:122 Resp: 4820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 88.3 | 96.0 | 156.0# |
| 77 | 65.4 | 46.6 | 106.6 |

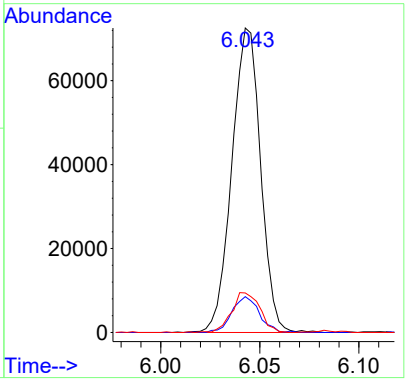


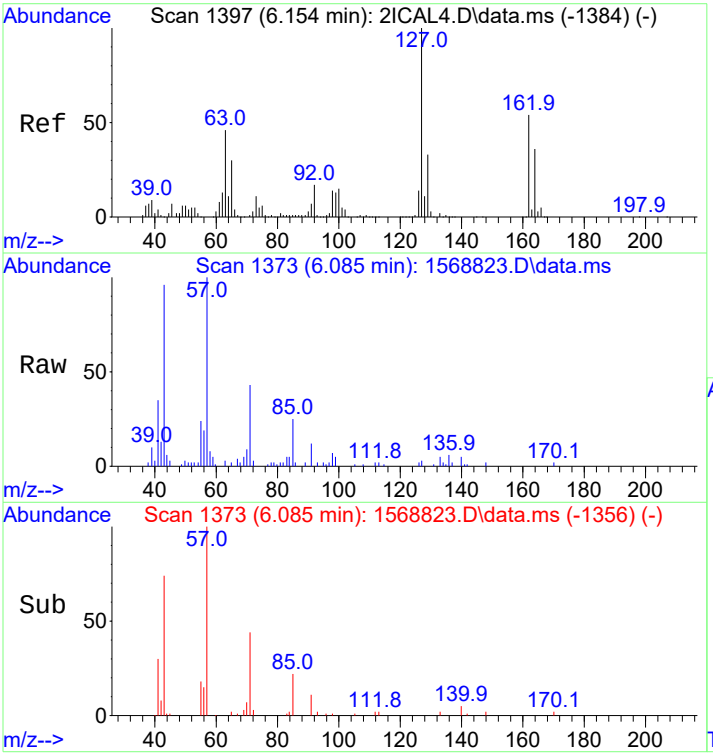




#31
Naphthalene
Concen: 1.81 ug/mL
RT: 6.043 min Scan# 1358
Delta R.T. -0.009 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:128 Resp: 73350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.8 | 0.0 | 41.0 |
| 127 | 13.0 | 0.0 | 43.3 |

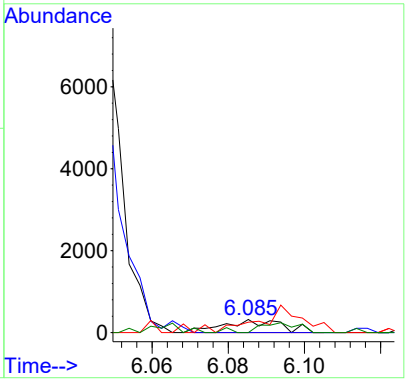


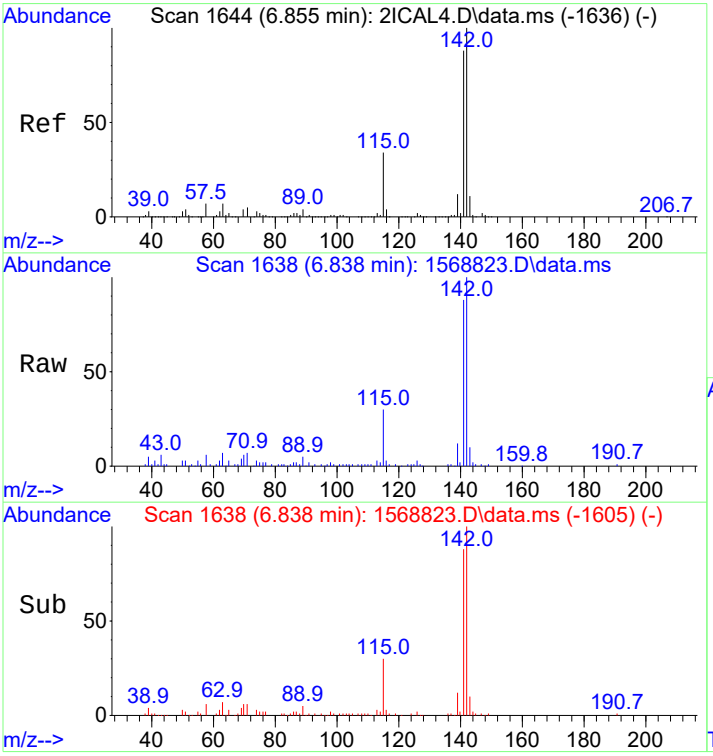



#32
4-Cl-aniline
Concen: 0.02 ug/mL
RT: 6.085 min Scan# 1373
Delta R.T. -0.051 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:127 Resp: 334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 0.0 | 3.1 | 63.1# |
| 65 | 12.8 | 0.2 | 60.2 |
| 92 | 0.0 | 0.0 | 46.7 |

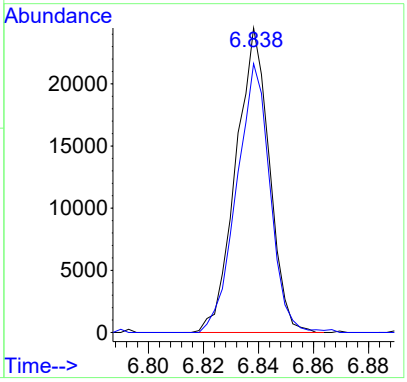


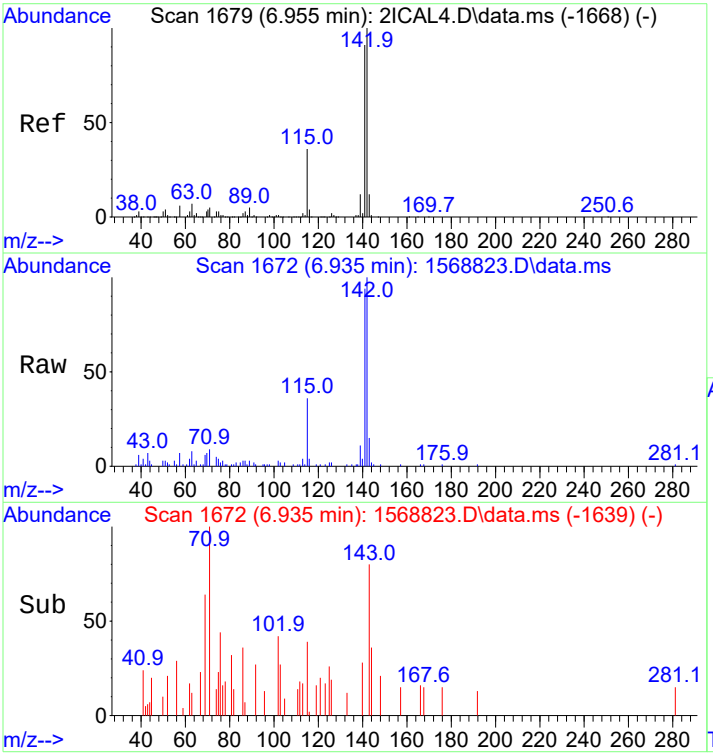




#37
2Methylnaphth
Concen: 0.85 ug/mL
RT: 6.838 min Scan# 1638
Delta R.T. -0.006 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:142 Resp: 20764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.3 | 58.0 | 118.0 |

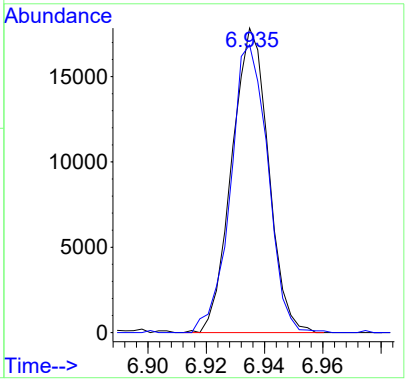


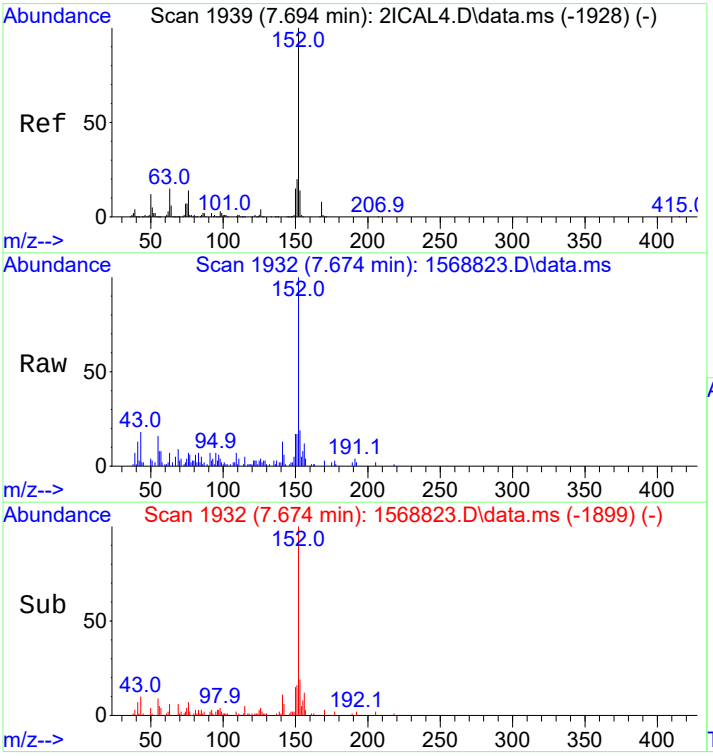



#38
1Methylnaphth
Concen: 0.61 ug/mL
RT: 6.935 min Scan# 1672
Delta R.T. -0.006 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:142 Resp: 15612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 94.5 | 60.7 | 120.7 |

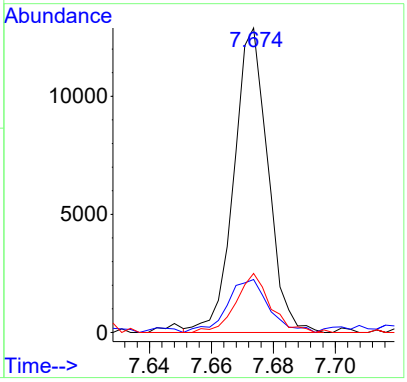


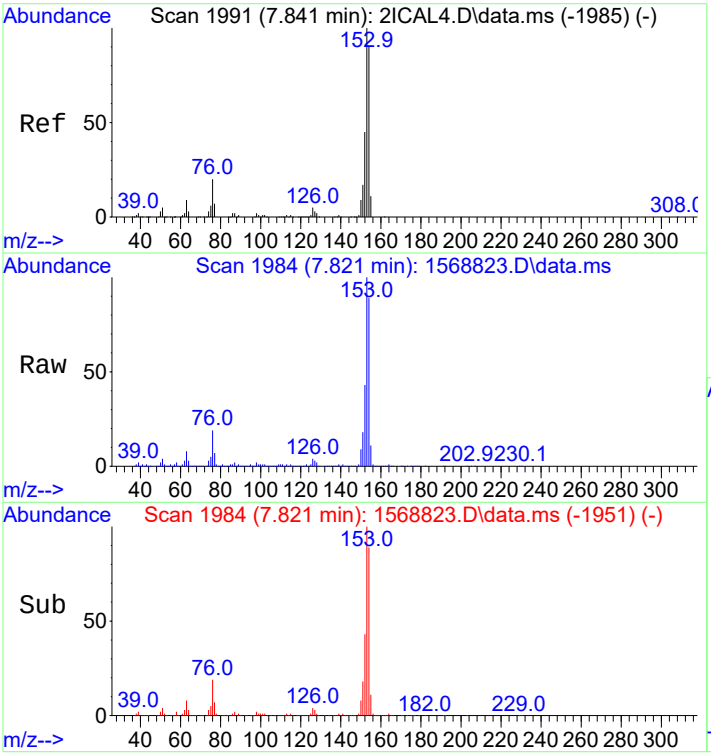




#47
Acnaphthylene
Concen: 0.24 ug/mL
RT: 7.674 min Scan# 1932
Delta R.T. -0.006 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:152 Resp: 9821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 17.4 | 0.0 | 50.3 |
| 153 | 19.4 | 0.0 | 44.4 |

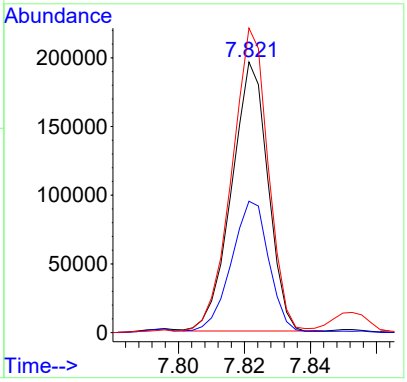


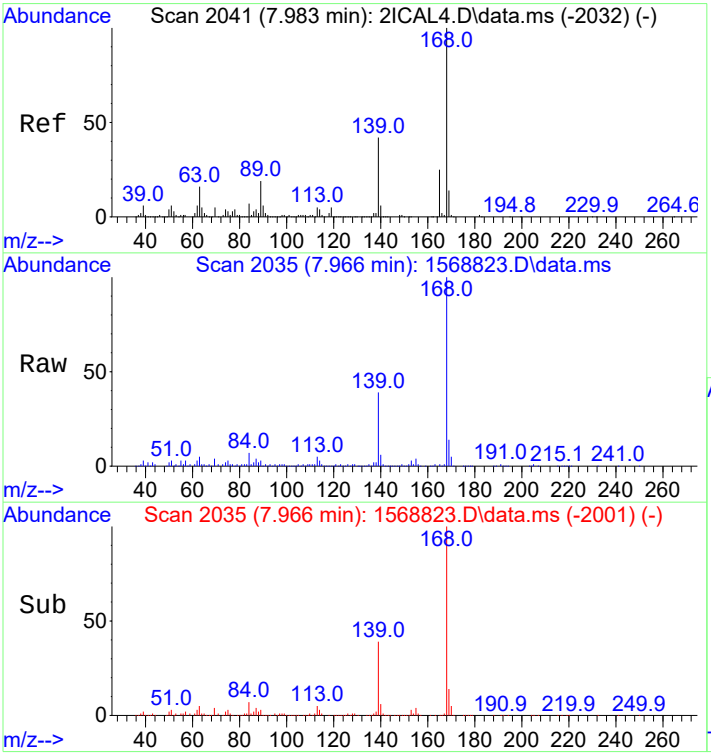



#50
Acenaphthene
Concen: 6.27 ug/mL
RT: 7.821 min Scan# 1984
Delta R.T. -0.006 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:154 Resp: 149812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 48.4 | 20.0 | 80.0 |
| 153 | 112.5 | 80.7 | 140.7 |

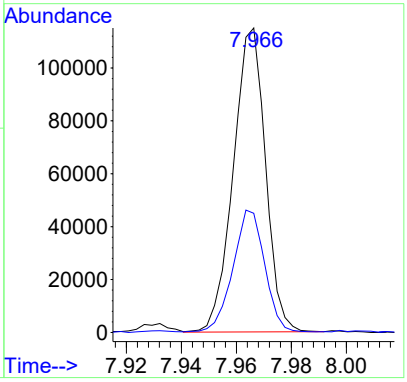


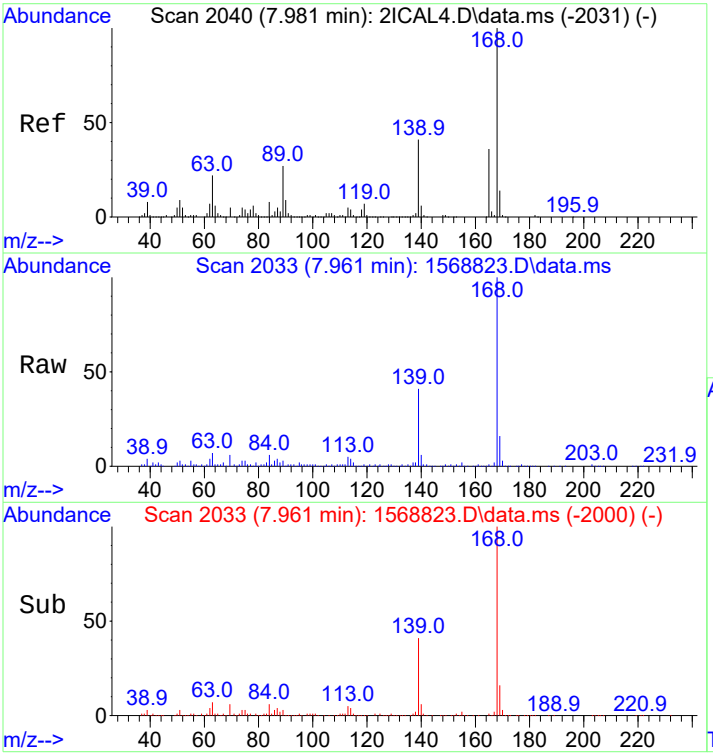




#53
Dibenzofuran
Concen: 2.72 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.003 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:168 Resp: 93688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.0 | 11.9 | 71.9 |

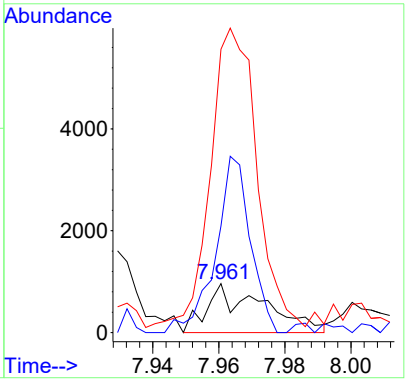


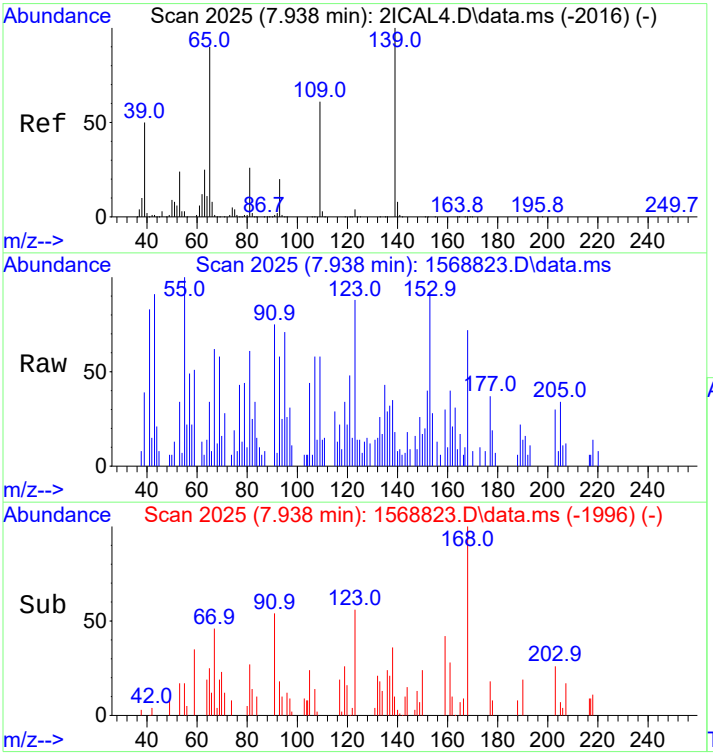



#54
24Dinitrotolu
Concen: 0.13 ug/mL
RT: 7.961 min Scan# 2033
Delta R.T. -0.006 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:165 Resp: 1160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 199.3 | 46.1 | 106.1# |
| 63 | 543.7 | 32.6 | 92.6# |

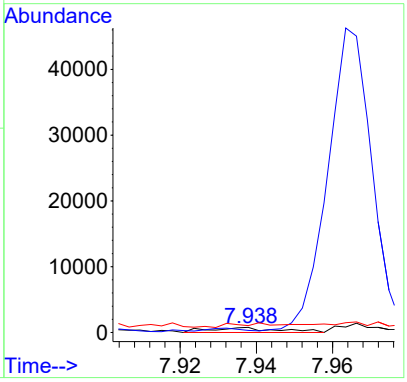


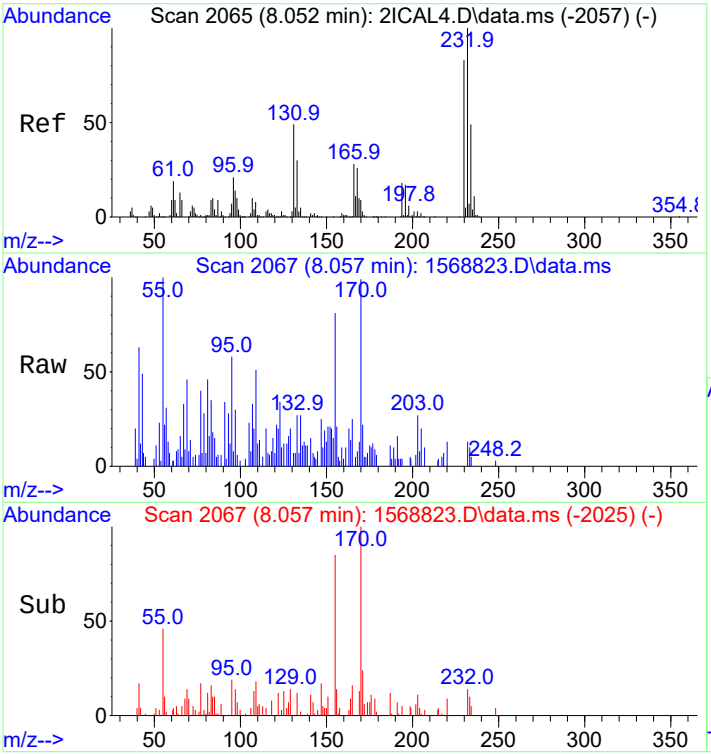




#55
4-Nitrophenol
Concen: 1.44 ug/mL
RT: 7.938 min Scan# 2025
Delta R.T. 0.017 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion: 65 Resp: 937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 4.8 | 80.5 | 140.5# |
| 109 | 18.6 | 37.6 | 97.6# |

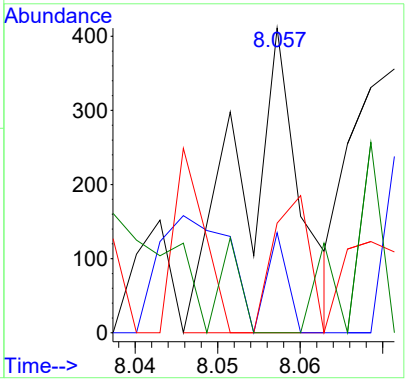


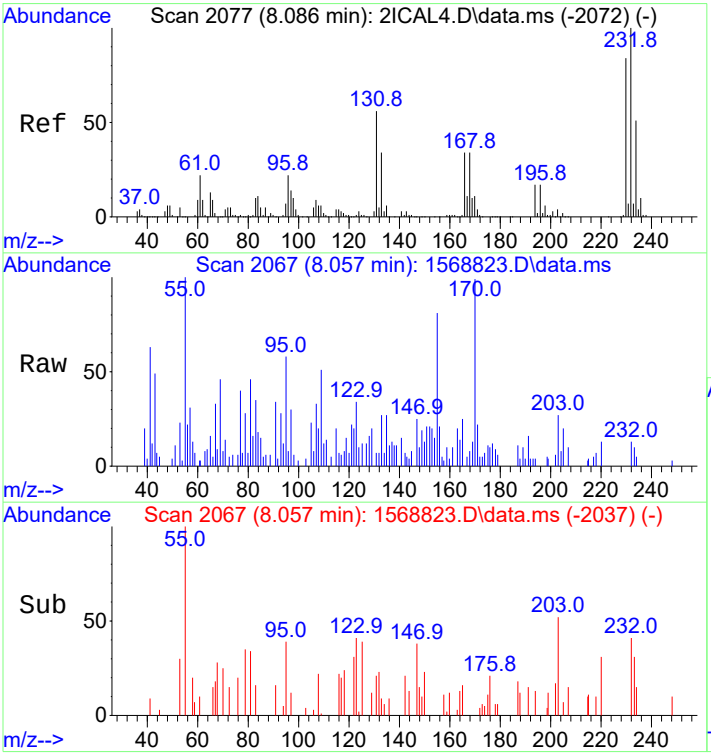



#56
2,3,5,6-Tetrachlorop
Concen: 0.58 ug/mL
RT: 8.057 min Scan# 2067
Delta R.T. 0.020 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:232 Resp: 209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 194 | 32.8 | 0.0 | 48.3 |
| 234 | 36.0 | 18.5 | 78.5 |
| 230 | 0.0 | 52.6 | 112.6# |

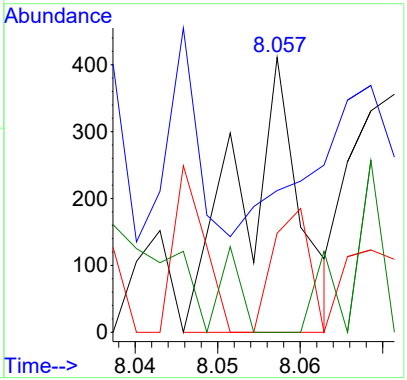


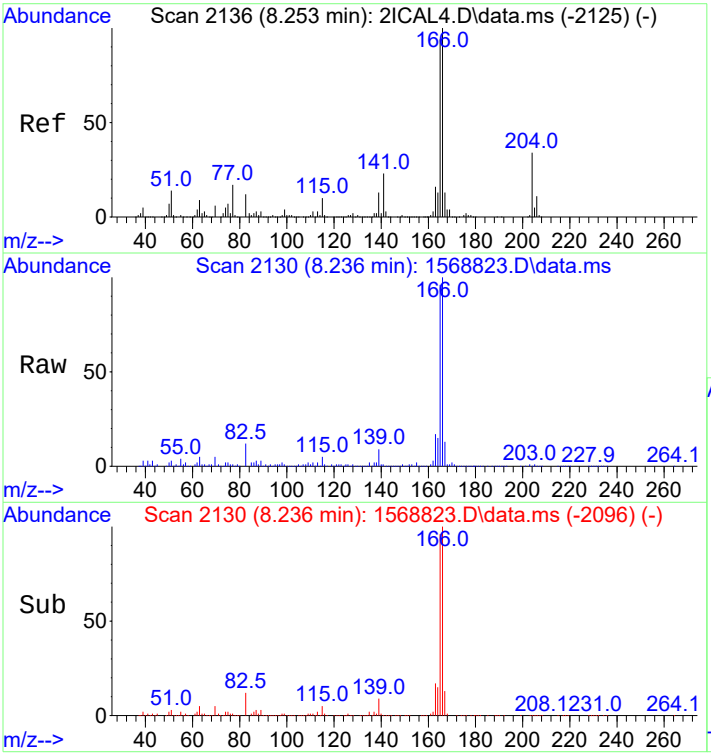




#57
2,3,4,6-Tetrachlorop
Concen: 0.35 ug/mL
RT: 8.057 min Scan# 2067
Delta R.T. -0.014 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:232 Resp: 209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 0.0 | 35.2 | 75.2# |
| 234 | 36.0 | 31.0 | 71.0 |
| 230 | 0.0 | 64.0 | 104.0# |

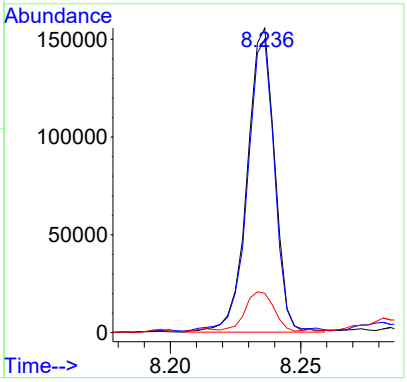


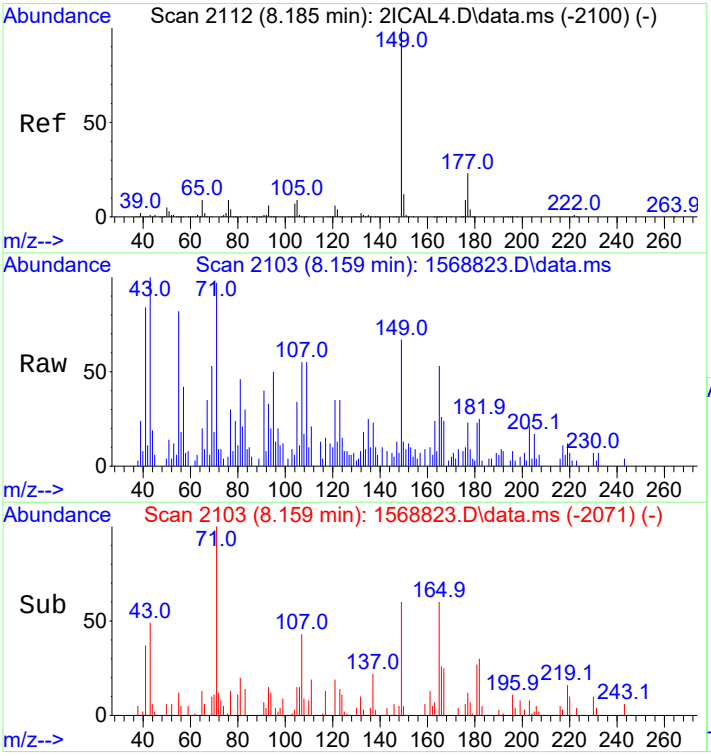



#58
Fluorene
Concen: 4.32 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:166 Resp: 113793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.0 | 63.6 | 123.6 |
| 167 | 12.6 | 0.0 | 43.3 |

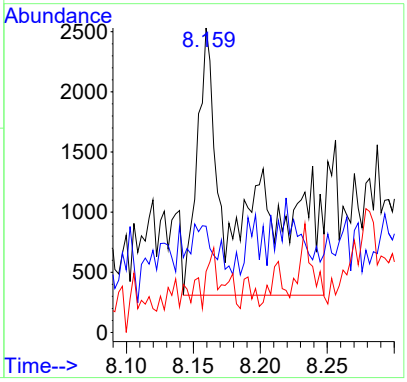


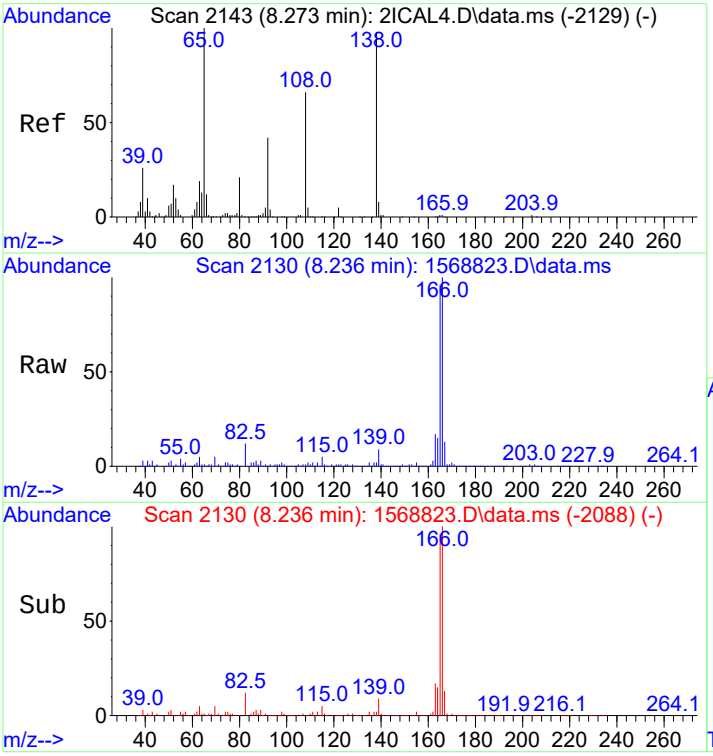




#60
Diethylphthal
Concen: 0.18 ug/mL
RT: 8.159 min Scan# 2103
Delta R.T. -0.009 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:149 Resp: 5122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 11.7 | 0.0 | 52.5 |
| 150 | 9.3 | 0.0 | 42.2 |

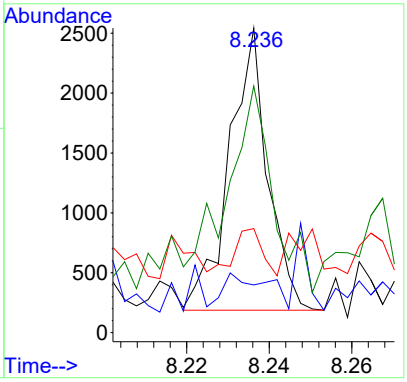


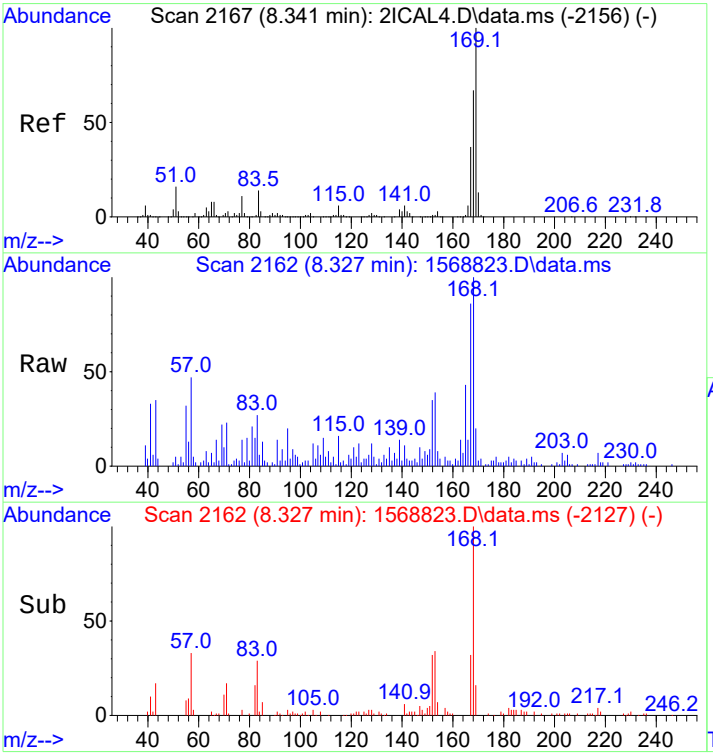



#61
4Nitroaniline
Concen: 0.57 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.020 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:138 Resp: 1519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 9.3 | 12.7 | 72.7# |
| 108 | 14.3 | 36.9 | 96.9# |
| 65 | 62.2 | 71.1 | 131.1# |

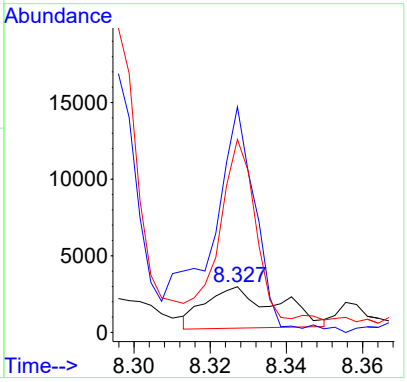


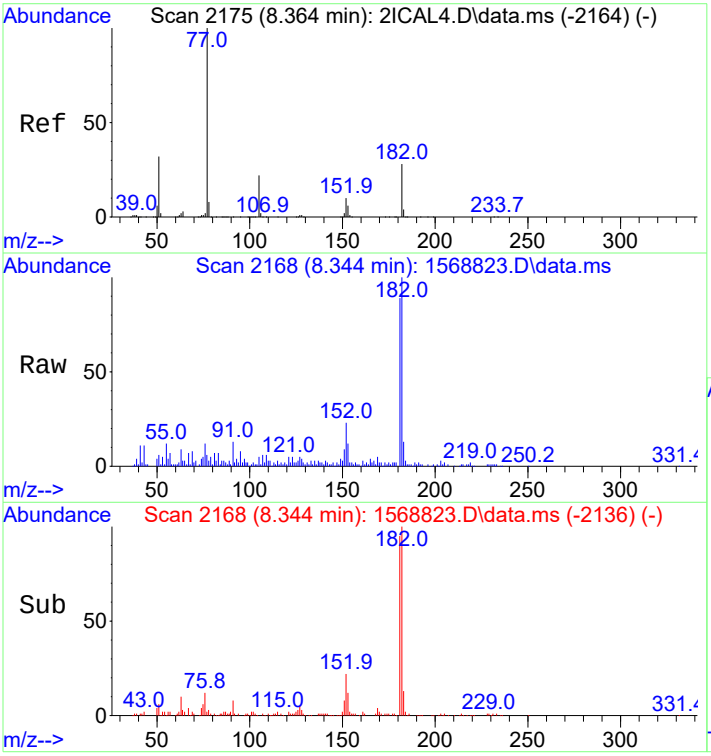




#65
Ntrsdiphlam&Diphlam
Concen: 0.19 ug/mL
RT: 8.327 min Scan# 2162
Delta R.T. -0.000 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:169 Resp: 3526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 675.0 | 37.2 | 97.2# |
| 167 | 549.8 | 6.9 | 66.9# |

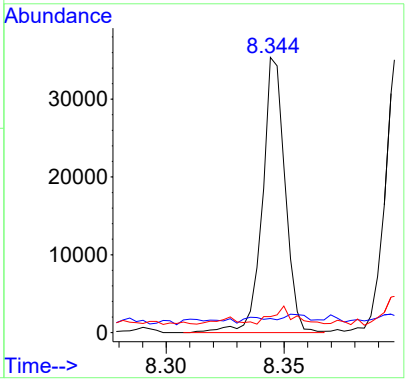


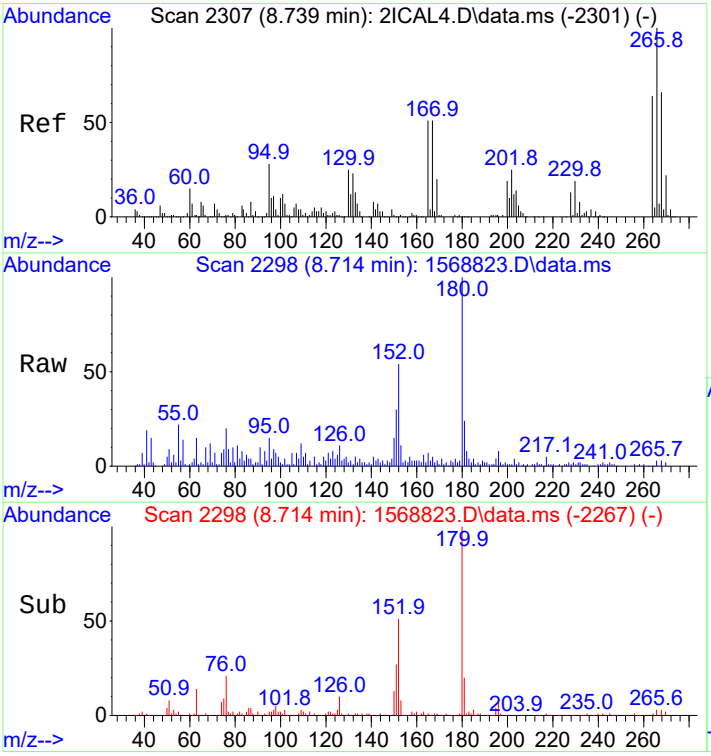



#66
Azobenz&12Diphlhyd
Concen: 3.55 ug/mL
RT: 8.344 min Scan# 2168
Delta R.T. -0.009 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:182 Resp: 23535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.5 | 49.9 | 109.9# |
| 77 | 2.5 | 339.9 | 399.9# |

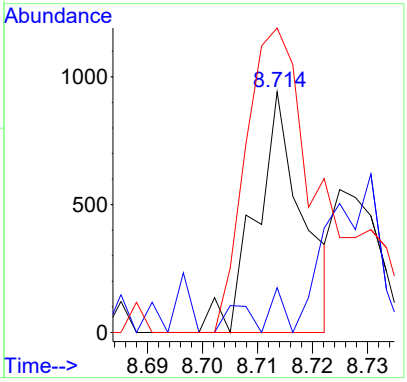


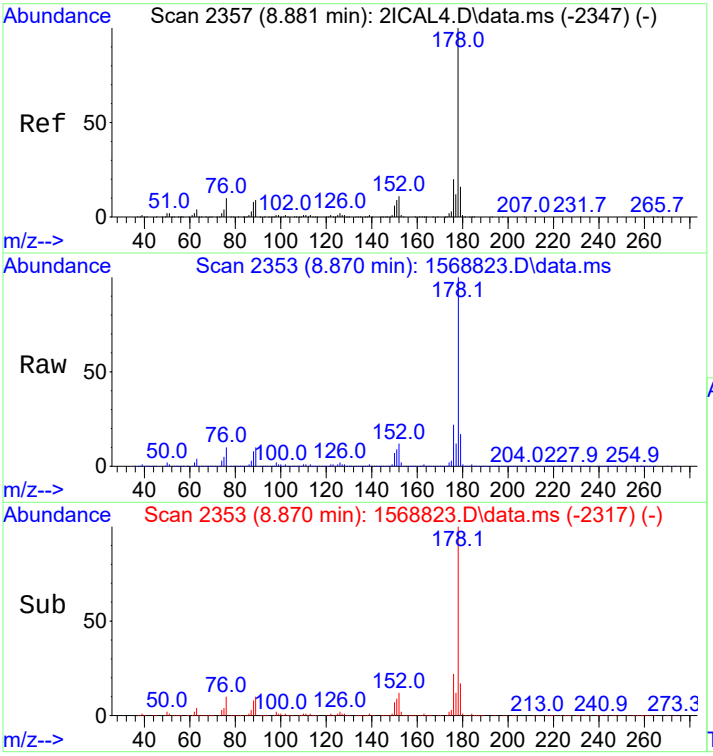




#69
Pentaclphenol
Concen: 3.42 ug/mL
RT: 8.714 min Scan# 2298
Delta R.T. -0.011 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:266 Resp: 552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 0.0 | 34.2 | 94.2# |
| 268 | 126.6 | 36.2 | 96.2# |

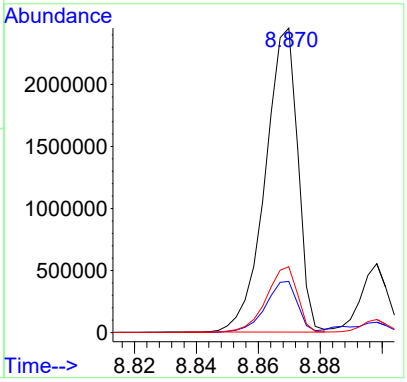


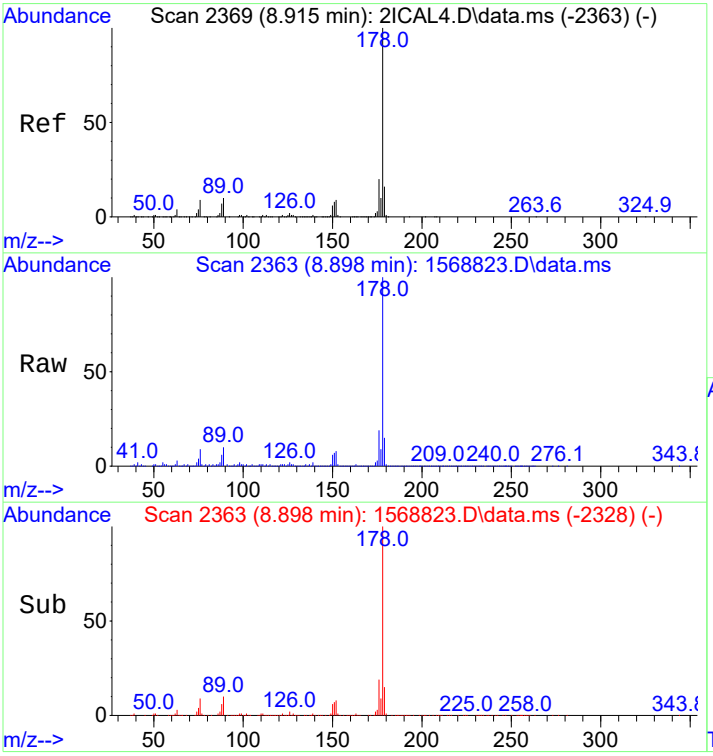



#70
Phenanthrene
Concen: 51.06 ug/mL
RT: 8.870 min Scan# 2353
Delta R.T. 0.003 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:178 Resp: 1793359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.8 | 0.0 | 45.9 |
| 176 | 21.6 | 0.0 | 50.4 |

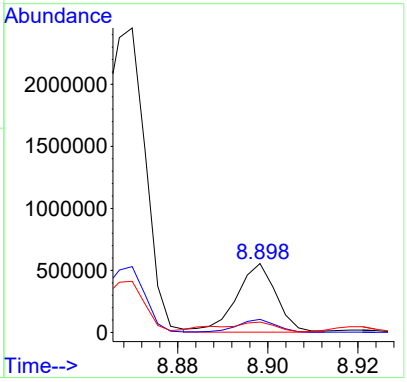


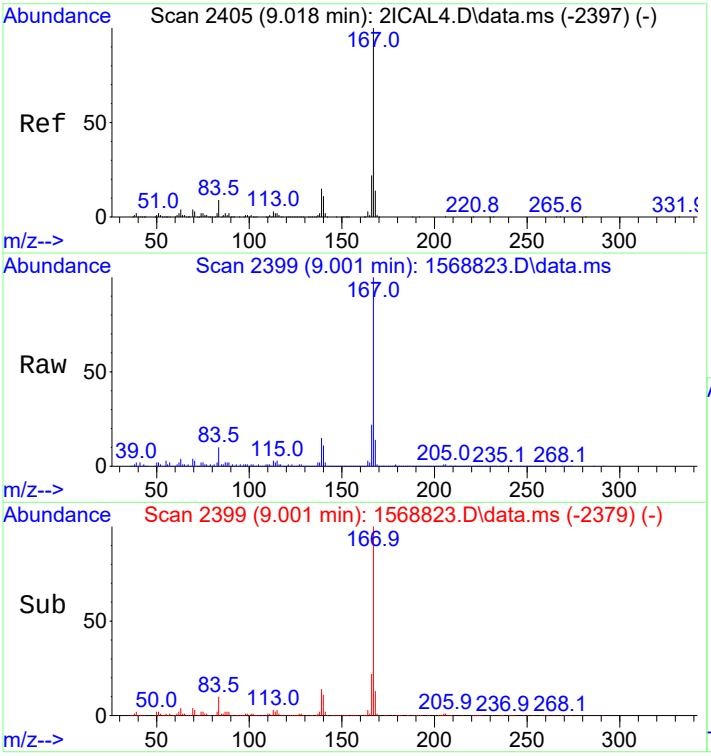




#71
Anthracene
Concen: 9.54 ug/mL
RT: 8.898 min Scan# 2363
Delta R.T. -0.000 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:178 Resp: 341076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 0.0 | 49.5 |
| 179 | 12.3 | 0.0 | 45.9 |

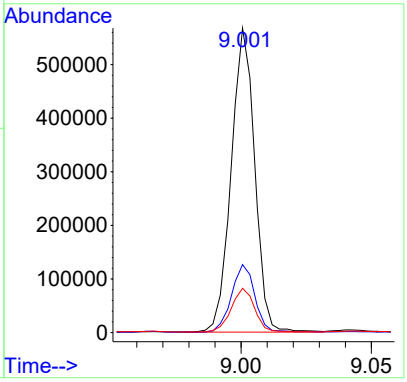


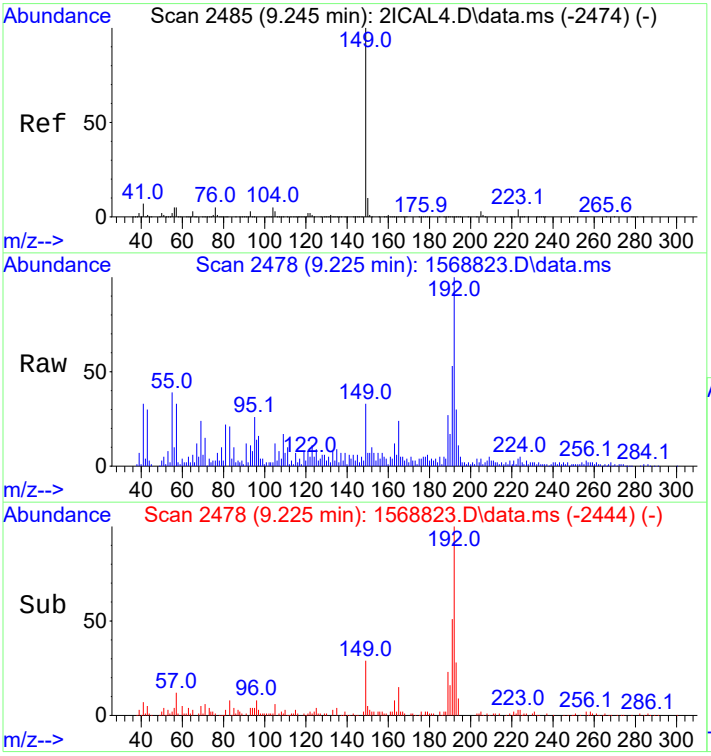



#72
Carbazole
Concen: 11.72 ug/mL
RT: 9.001 min Scan# 2399
Delta R.T. -0.003 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:167 Resp: 356649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.1 | 0.0 | 52.1 |
| 139 | 14.4 | 0.0 | 44.7 |

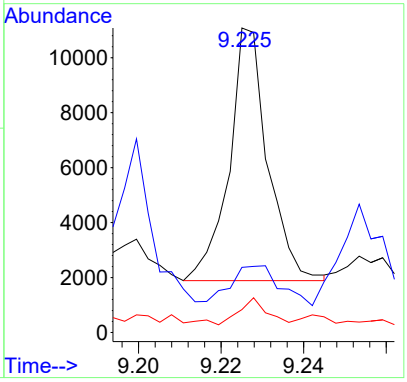


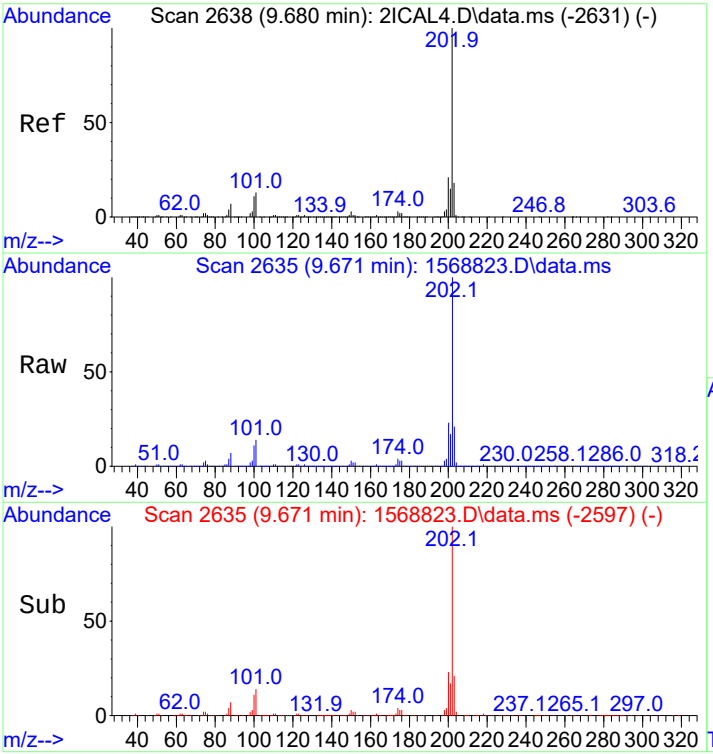




#73
Dinbtylphthal
Concen: 0.14 ug/mL
RT: 9.225 min Scan# 2478
Delta R.T. -0.003 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:149 Resp: 5989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 8.5 | 0.0 | 39.7 |
| 104 | 5.2 | 0.0 | 35.4 |

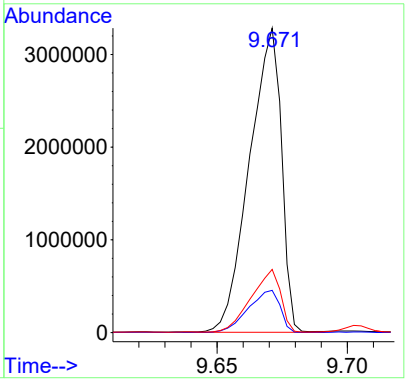


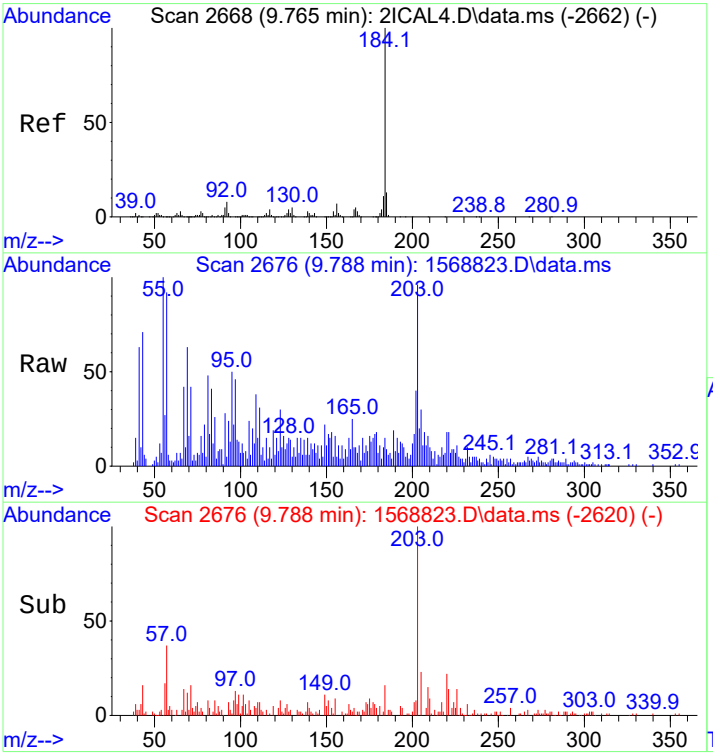



#74
Fluoranthene
Concen: 75.26 ug/mL
RT: 9.671 min Scan# 2635
Delta R.T. 0.008 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:202 Resp: 2791403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.8 | 0.0 | 43.0 |
| 203 | 20.6 | 0.0 | 48.2 |

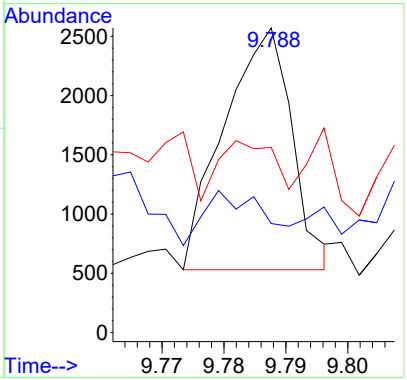


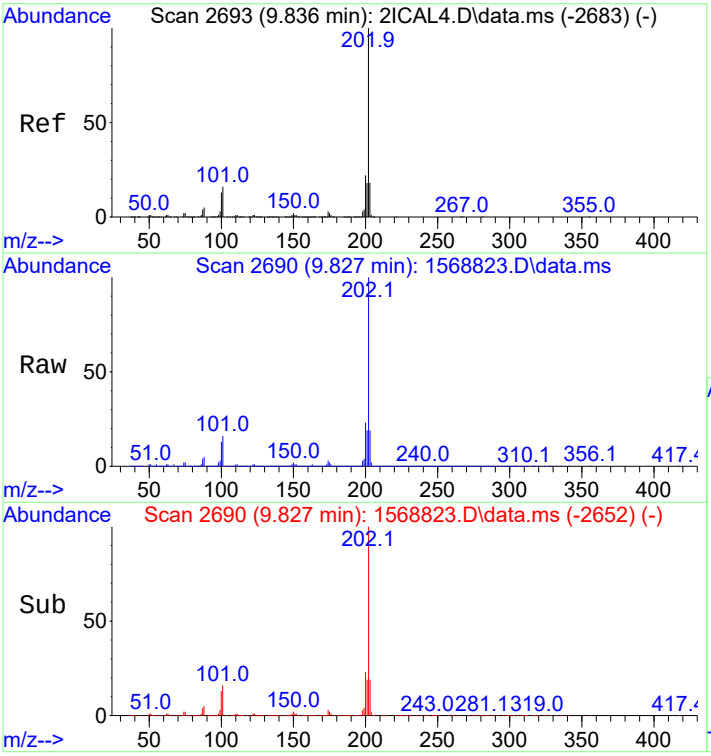




#76
Benzidine
Concen: Below Cal
RT: 9.788 min Scan# 2676
Delta R.T. 0.040 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:184 Resp: 1558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 9.1 | 0.0 | 38.2 |
| 185 | 0.0 | 0.0 | 43.3 |

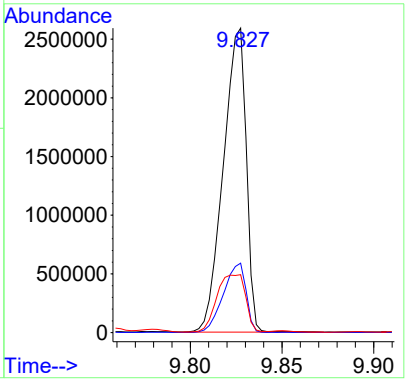


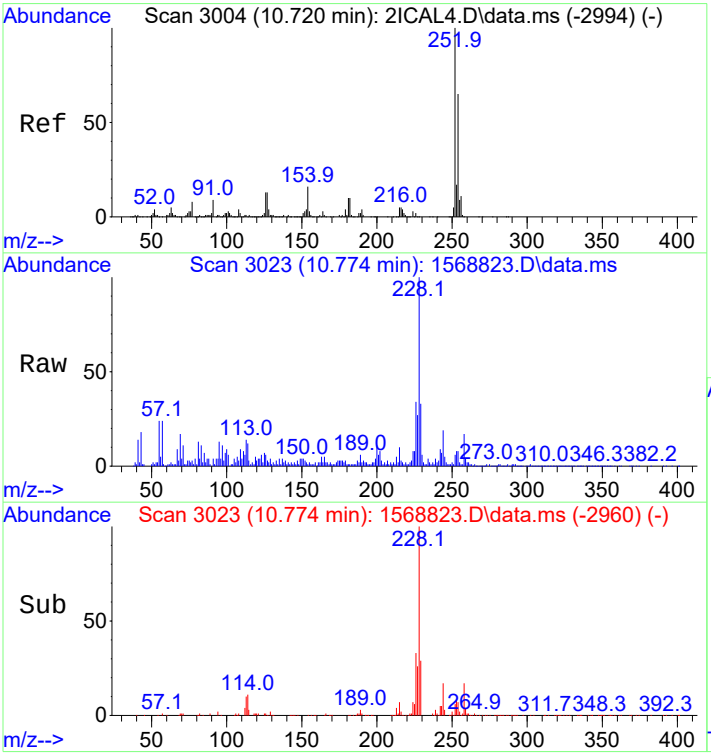



#77
Pyrene
Concen: 60.40 ug/mL
RT: 9.827 min Scan# 2690
Delta R.T. 0.008 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:202 Resp: 2252451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.8 | 0.0 | 52.2 |
| 203 | 18.9 | 0.0 | 48.2 |

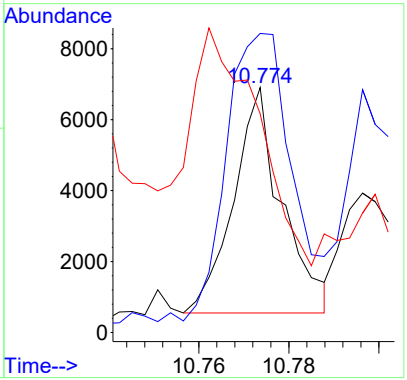


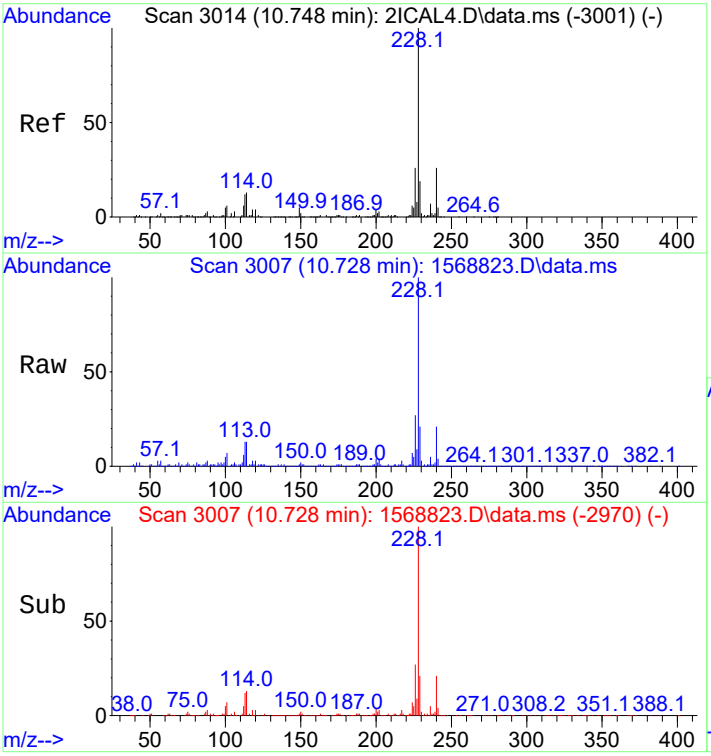




#81
33Diclbnzidin
Concen: 0.37 ug/mL
RT: 10.774 min Scan# 3023
Delta R.T. 0.080 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:252 Resp: 4752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 127.4 | 34.6 | 94.6# |
| 126 | 53.3 | 0.0 | 42.6# |

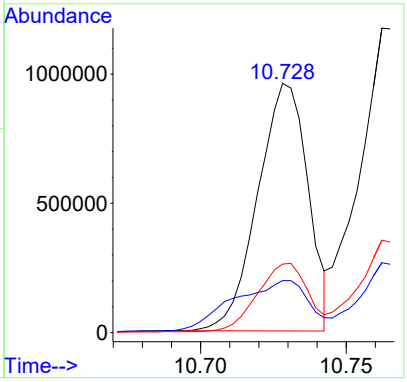


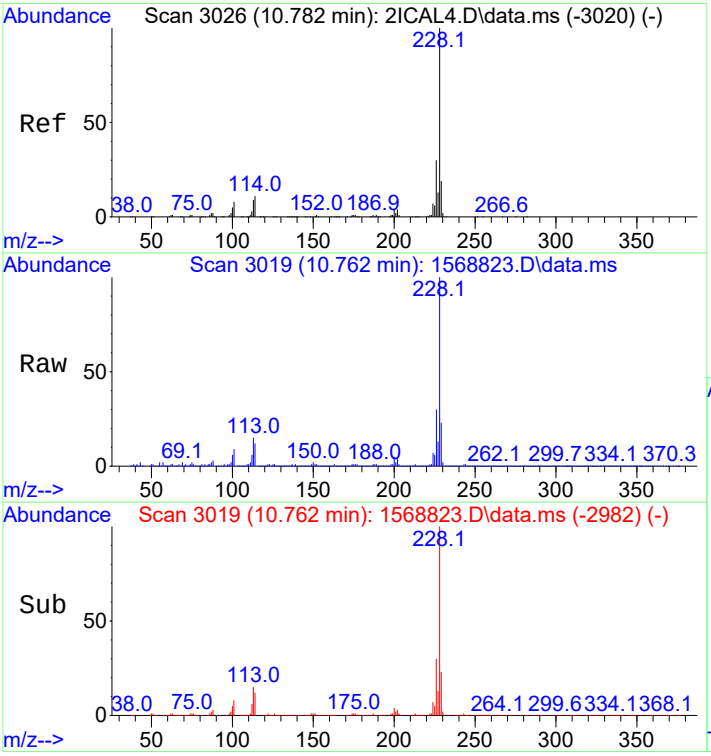



#82
B[a]anthracen
Concen: 32.49 ug/mL
RT: 10.728 min Scan# 3007
Delta R.T. 0.006 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:228 Resp: 1148504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.5 | 0.0 | 49.4 |
| 226 | 27.3 | 0.0 | 56.5 |

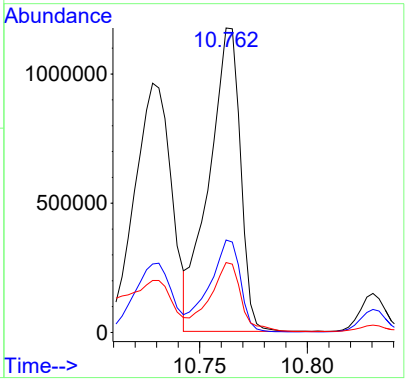


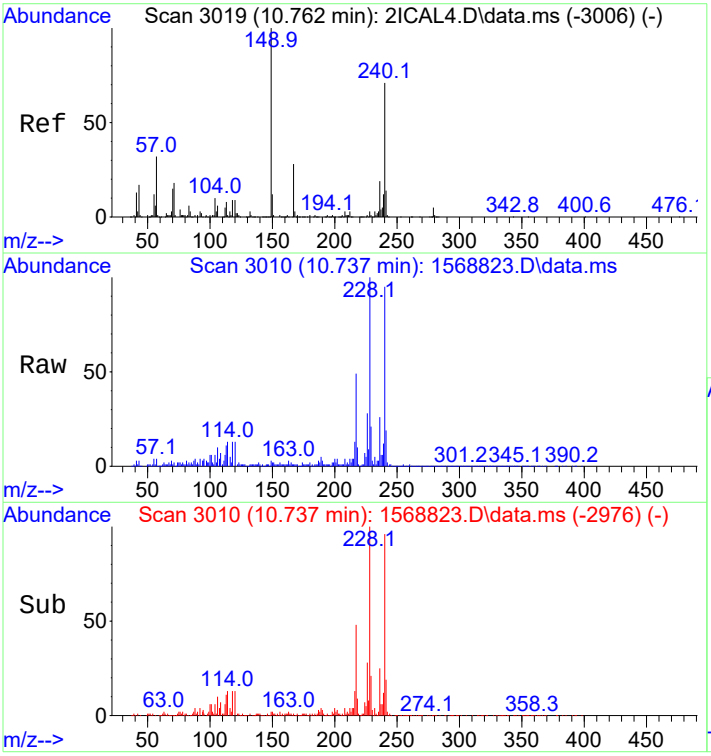




#83
Chrysene
Concen: 35.89 ug/mL
RT: 10.762 min Scan# 3019
Delta R.T. 0.006 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:228 Resp: 1189871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.3 | 0.0 | 59.9 |
| 229 | 22.7 | 0.0 | 49.5 |

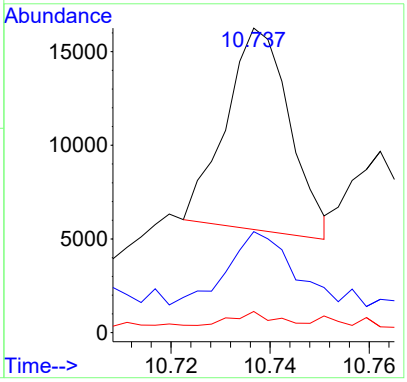


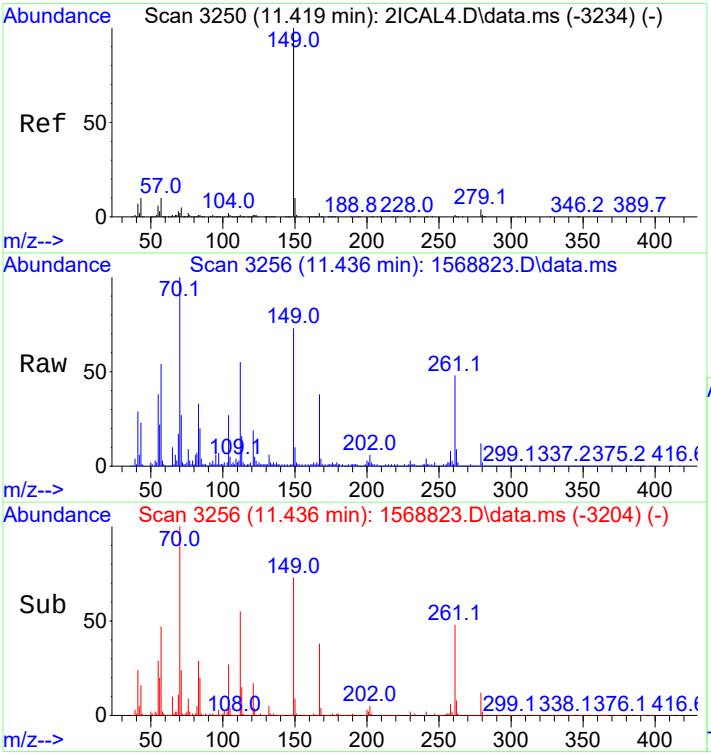



#84
bis2Ethlhxlph
Concen: 0.36 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. -0.003 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:149 Resp: 9597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 34.4 | 0.0 | 57.9 |
| 279 | 7.2 | 0.0 | 34.9 |

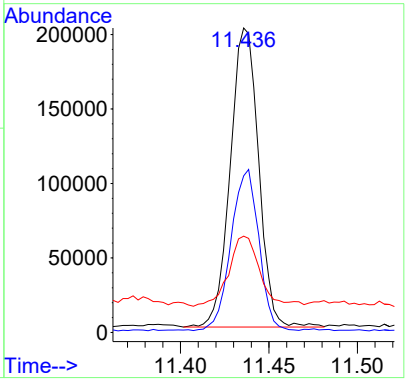


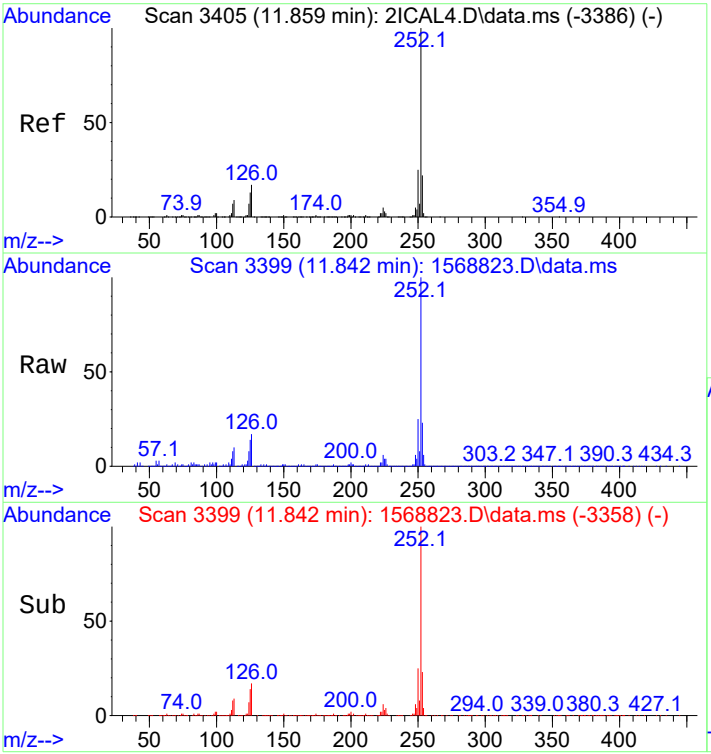




#85
Dinoctylphthl
Concen: 5.19 ug/mL
RT: 11.436 min Scan# 3256
Delta R.T. 0.048 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:149 Resp: 224569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 51.5 | 0.0 | 31.6# |
| 43 | 22.3 | 0.0 | 39.9 |

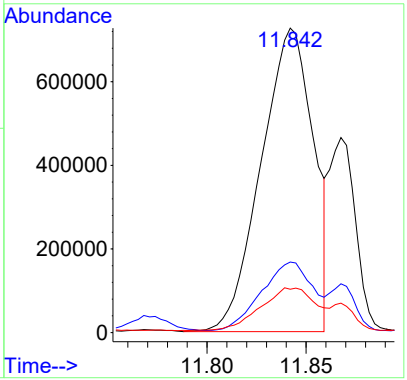


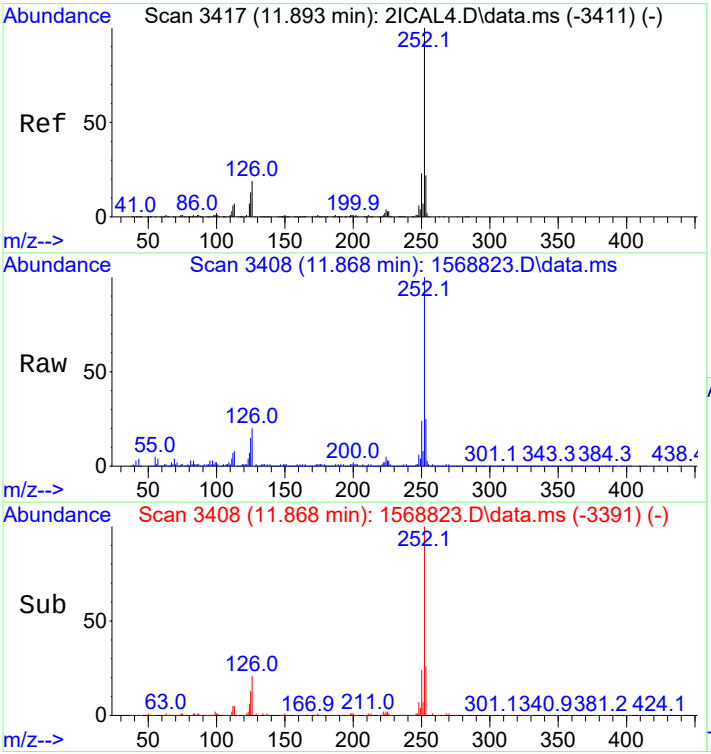



#87
B[b]fluoranth
Concen: 56.70 ug/mL
RT: 11.842 min Scan# 3399
Delta R.T. 0.017 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:252 Resp: 1332145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 0.0 | 52.3 |
| 125 | 13.6 | 0.0 | 43.2 |

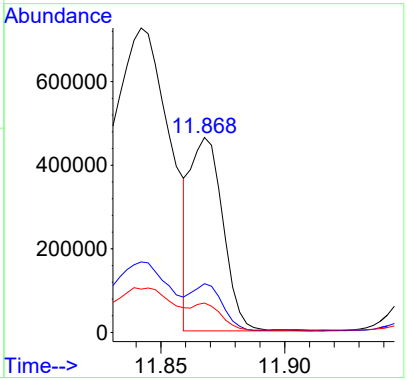


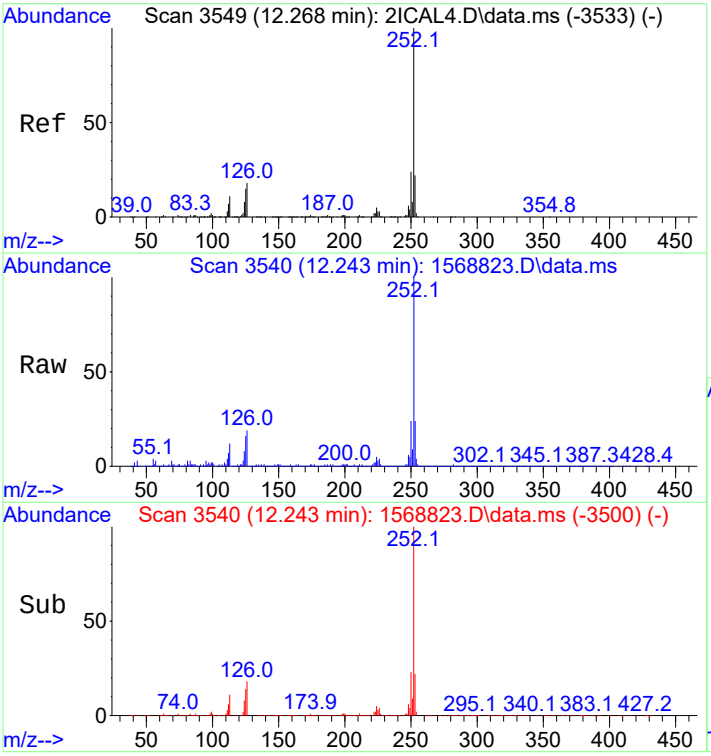




#88
B[k]fluoranth
Concen: 17.93 ug/mL
RT: 11.868 min Scan# 3408
Delta R.T. 0.008 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:252 Resp: 422141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.2 | 0.0 | 52.0 |
| 125 | 13.9 | 0.0 | 43.3 |

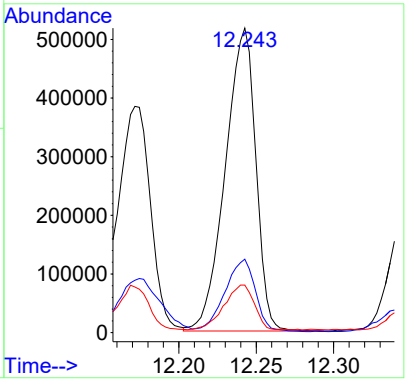


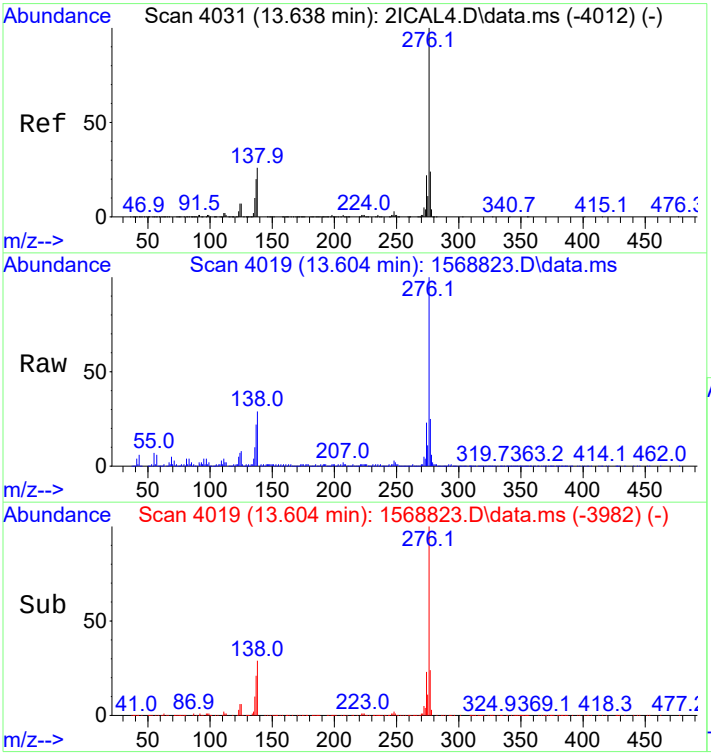



#89
Benz[a]pyrene
Concen: 32.80 ug/mL
RT: 12.243 min Scan# 3540
Delta R.T. 0.014 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:252 Resp: 708614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.8 | 0.0 | 52.3 |
| 125 | 14.7 | 0.0 | 45.1 |

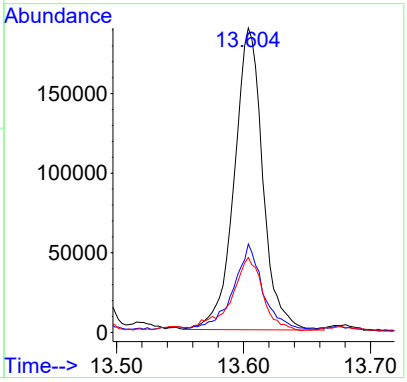


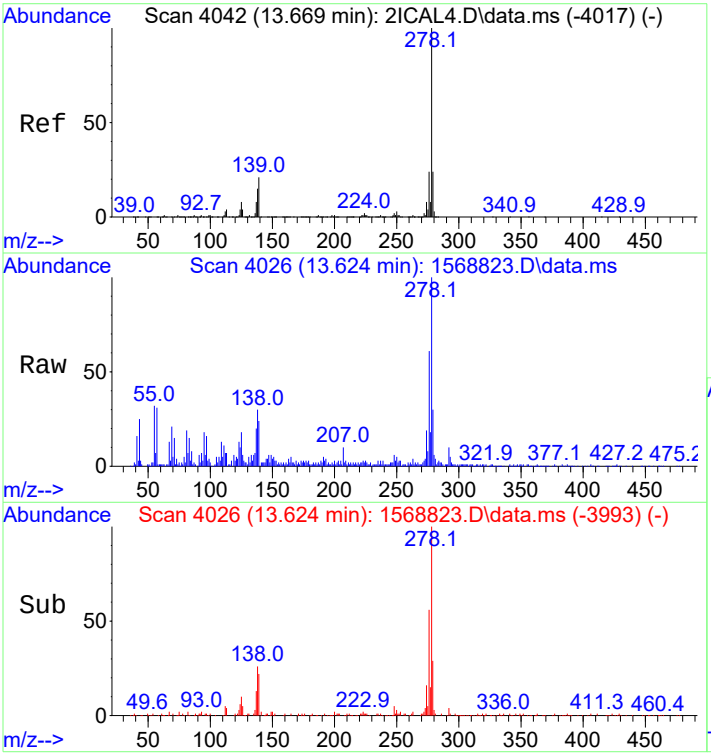




#90
Indeno-pyrene
Concen: 12.38 ug/mL
RT: 13.604 min Scan# 4019
Delta R.T. 0.006 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:276 Resp: 295784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.8 | 0.0 | 55.5 |
| 277 | 23.2 | 0.0 | 54.0 |

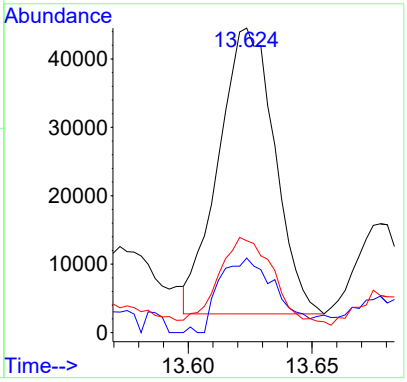


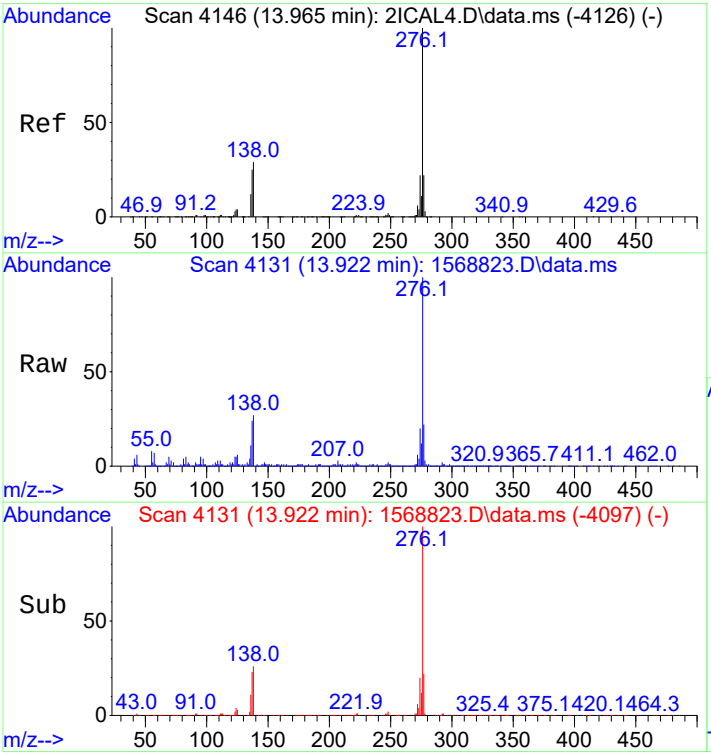



#91
Dib[ah]anthr
Concen: 3.37 ug/mL
RT: 13.624 min Scan# 4026
Delta R.T. -0.006 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:278 Resp: 65839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 26.1 | 0.0 | 50.9 |
| 279 | 28.4 | 0.0 | 54.4 |

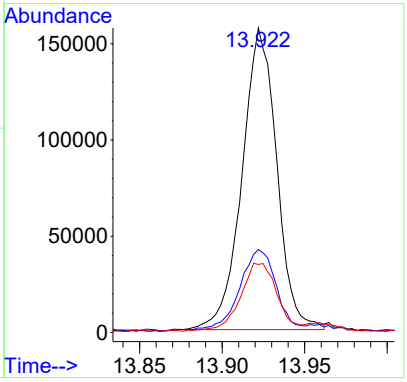



#92
B[ghi]perylen
Concen: 12.25 ug/mL
RT: 13.922 min Scan# 4131
Delta R.T. -0.003 min
Lab File: 1568823.D
Acq: 10 Apr 2025 19:14

Tgt Ion:276 Resp: 229358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.4 | 0.0 | 59.0 |
| 277 | 22.1 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568830.D Vial: 29
Acq On : 10 Apr 2025 19:38 Operator: ALD
Sample : 290730,1568830, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 19:54:33 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.327 | 152 | 175950 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.017 | 136 | 853981 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.793 | 164 | 482932 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.847 | 188 | 683516 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.734 | 240 | 570630 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.314 | 264 | 381613 | 20.00 | ug/mL | 0.01 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.108 | 112 | 329515 | 77.79 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 77.79% | | | |
| 7) SURRPhenol-d5 | 3.915 | 99 | 447137 | 87.82 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 87.82% | | | |
| 22) SURRNitrbenzened5 | 5.009 | 82 | 203259 | 87.35 | %REC | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 87.35% | | | |
| 44) SURR2Flbiphenyl | 7.211 | 172 | 531037 | 92.17 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 92.17% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 102546 | 79.33 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 79.33% | | | |
| 78) SURRTerphenyl-d14 | 9.924 | 244 | 576872 | 103.67 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 103.67% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.267 | 74 | 988 | 0.1450 | ug/mL# | 1 |
| 3) Pyridine | 2.608 | 79 | 7730 | 0.6350 | ug/mL | 85 |
| 14) bis2clispreth | 4.631 | 45 | 5707 | 0.2821 | ug/mL | 81 |
| 17) Acetophenone | 4.810 | 105 | 18804 | 1.1427 | ug/mL# | 38 |
| 18) Hexaclethane | 4.938 | 117 | 1603 | 0.3216 | ug/mL# | 13 |
| 19) N-Ntrsdinprop | 4.821 | 70 | 1104 | 0.1400 | ug/mL | 73 |
| 24) Isophorone | 5.392 | 82 | 2304 | 0.0973 | ug/mL | 79 |
| 26) 24Dimthpheno | 5.676 | 122 | 2585 | 0.2252 | ug/mL# | 5 |
| 27) bis2clethoxym | 5.750 | 93 | 706 | 0.0478 | ug/mL | 67 |
| 30) Benzoic acid | 5.676 | 122 | 3273 | 3.3884 | ug/mL | 90 |
| 31) Naphthalene | 6.043 | 128 | 38014 | 0.9652 | ug/mL | 98 |
| 32) 4-Cl-aniline | 6.117 | 127 | 213 | 0.0139 | ug/mL# | 59 |
| 33) 26Diclphenol | 6.131 | 162 | 441 | 0.0417 | ug/mL# | 29 |
| 36) 4Cl3methylphe | 6.736 | 107 | 815 | 0.0752 | ug/mL# | 18 |
| 37) 2Methylnaphth | 6.836 | 142 | 55010 | 2.3110 | ug/mL | 94 |
| 38) 1Methylnaphth | 6.935 | 142 | 36863 | 1.4974 | ug/mL | 100 |
| 45) 2Clnaphthalen | 7.358 | 162 | 1637 | 0.0670 | ug/mL# | 38 |
| 46) 2Nitroaniline | 7.398 | 65 | 1172 | 0.4283 | ug/mL# | 23 |
| 47) Acnaphthylene | 7.671 | 152 | 9065 | 0.2319 | ug/mL | 86 |
| 50) Acenaphthene | 7.819 | 154 | 7143 | 0.3075 | ug/mL | 91 |
| 51) 3Nitroaniline | 7.799 | 138 | 624 | 0.3275 | ug/mL# | 1 |
| 53) Dibenzofuran | 7.964 | 168 | 11605 | 0.3460 | ug/mL | 89 |
| 54) 24Dinitrotolu | 7.969 | 165 | 1701 | 0.2006 | ug/mL# | 63 |
| 56) 2,3,5,6-Tetrachlorop | 8.035 | 232 | 200 | 0.5793 | ug/mL# | 43 |
| 57) 2,3,4,6-Tetrachlorop | 8.057 | 232 | 1496 | 0.5583 | ug/mL# | 53 |
| 58) Fluorene | 8.234 | 166 | 4718 | 0.1840 | ug/mL | 89 |
| 59) 4Clphlphlethr | 8.120 | 204 | 695 | 0.0575 | ug/mL# | 62 |
| 60) Diethylphthal | 8.157 | 149 | 2447 | 0.0861 | ug/mL | 94 |
| 61) 4Nitroaniline | 8.373 | 138 | 1278 | 0.5321 | ug/mL# | 12 |
| 65) Ntrsdiphlam&Diphlam | 8.319 | 169 | 14731 | 0.8359 | ug/mL# | 26 |
| 66) Azobenz&12Diphlhyd | 8.344 | 182 | 7330 | 1.1664 | ug/mL# | 1 |
| 69) Pentaclphenol | 8.725 | 266 | 3339 | 4.2957 | ug/mL | 96 |
| 70) Phenanthrene | 8.864 | 178 | 103358 | 3.1038 | ug/mL | 98 |
| 71) Anthracene | 8.896 | 178 | 15979 | 0.4716 | ug/mL | 96 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568830.D Vial: 29
Acq On : 10 Apr 2025 19:38 Operator: ALD
Sample : 290730,1568830, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 19:54:33 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

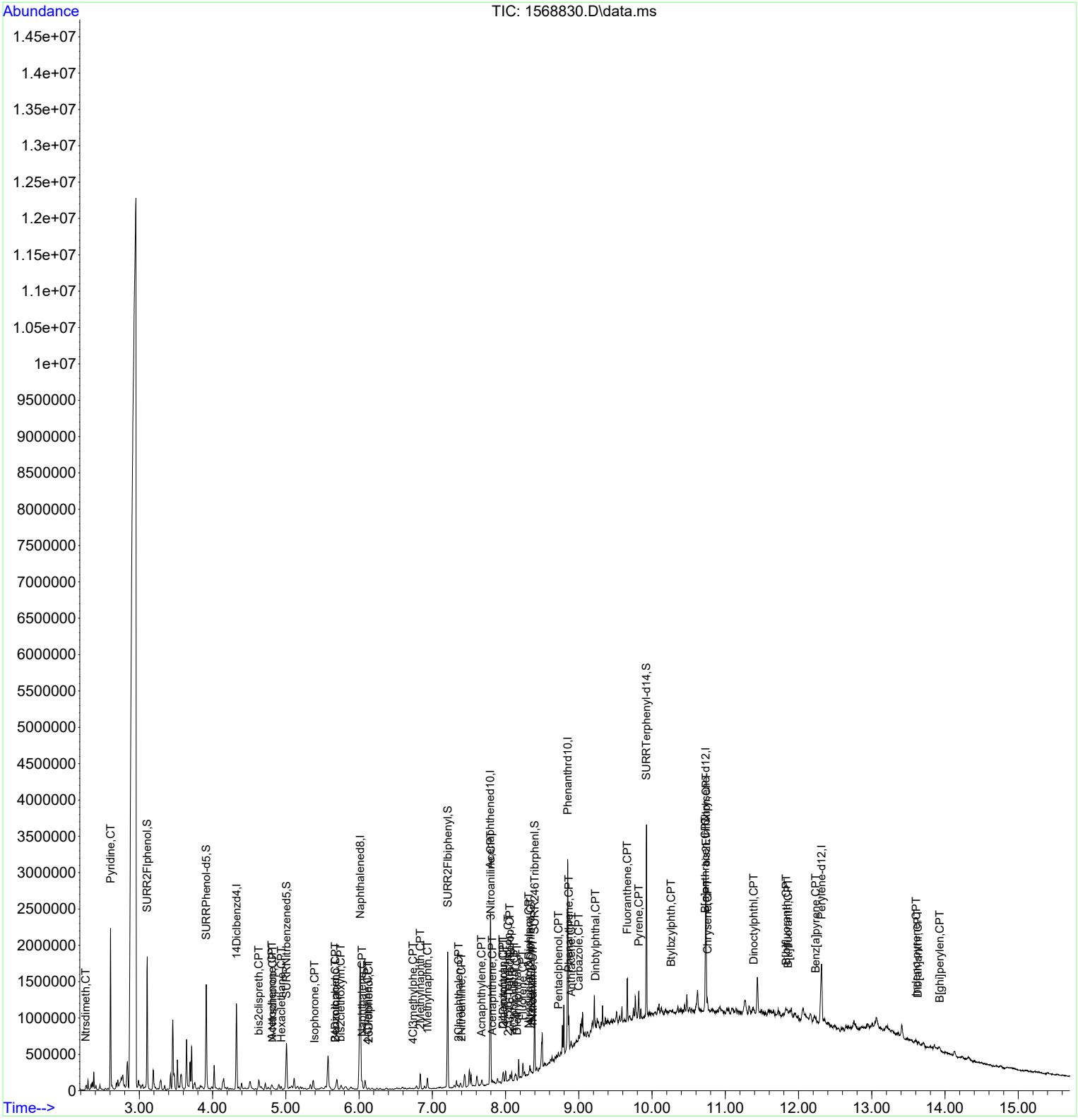
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 72) Carbazole | 9.001 | 167 | 16784 | 0.5818 ug/mL | 94 |
| 73) Dinbtylphthal | 9.228 | 149 | 7014 | 0.1738 ug/mL | 95 |
| 74) Fluoranthene | 9.663 | 202 | 141116 | 4.0131 ug/mL | 98 |
| 76) Benzidine | 9.660 | 184 | 898 | Below Cal # | 23 |
| 77) Pyrene | 9.819 | 202 | 110279 | 3.0426 ug/mL | 97 |
| 79) Btylbzylphth | 10.260 | 149 | 5349 | 0.2985 ug/mL# | 24 |
| 82) B[a]anthracen | 10.726 | 228 | 49109 | 1.4294 ug/mL | 96 |
| 83) Chrysene | 10.757 | 228 | 51011 | 1.5832 ug/mL | 98 |
| 84) bis2Ethlhxlph | 10.740 | 149 | 7702 | 0.2946 ug/mL | 93 |
| 85) Dinoctylphthl | 11.388 | 149 | 4310 | 0.4115 ug/mL# | 1 |
| 87) B[b]fluoranth | 11.831 | 252 | 56181 | 2.7792 ug/mL | 97 |
| 88) B[k]fluoranth | 11.859 | 252 | 18954 | 0.9358 ug/mL | 98 |
| 89) Benz[a]pyrene | 12.234 | 252 | 30720 | 1.6525 ug/mL | 98 |
| 90) Indeno-pyrene | 13.607 | 276 | 15120 | 0.7353 ug/mL | 92 |
| 91) Dib[ah]anthr | 13.629 | 278 | 3847 | 0.2289 ug/mL | 80 |
| 92) B[ghi]perylen | 13.928 | 276 | 16233 | 1.0077 ug/mL | 94 |

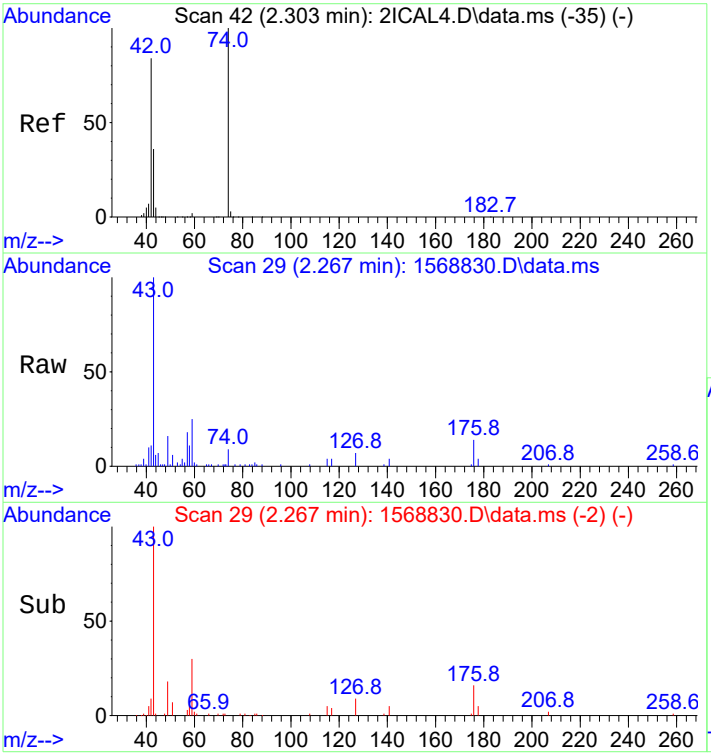
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568830.D Vial: 29
Acq On : 10 Apr 2025 19:38 Operator: ALD
Sample : 290730,1568830, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 19:54:33 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

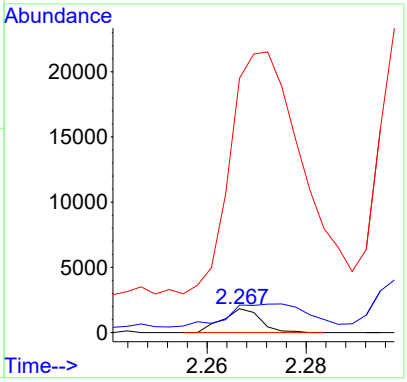


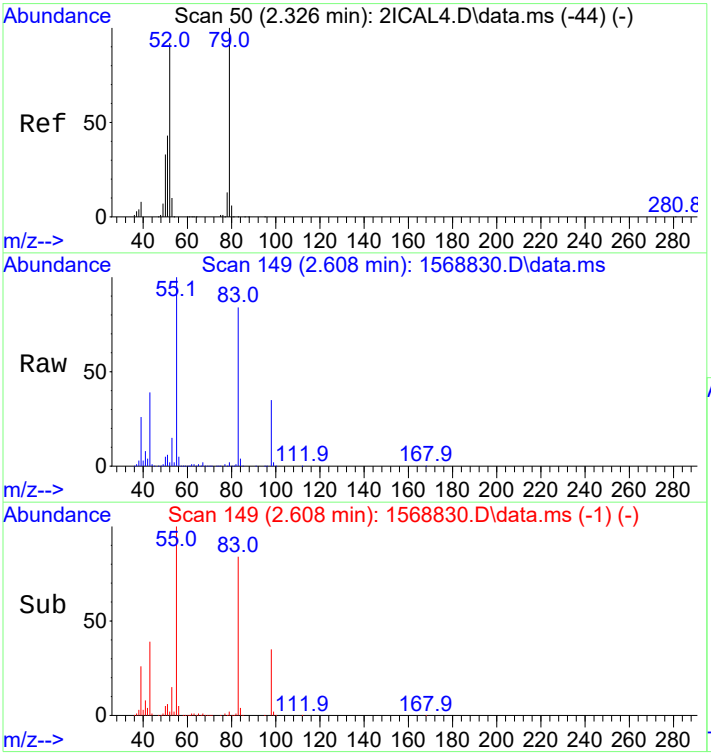



#2
Ntrsdimeth
Concen: 0.15 ug/mL
RT: 2.267 min Scan# 29
Delta R.T. -0.023 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion: 74 Resp: 988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 87.9 | 53.9 | 113.9 |
| 43 | 881.1 | 6.0 | 66.0# |

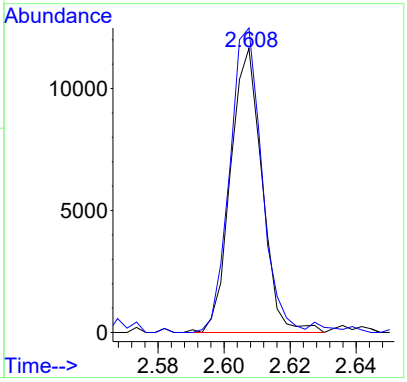


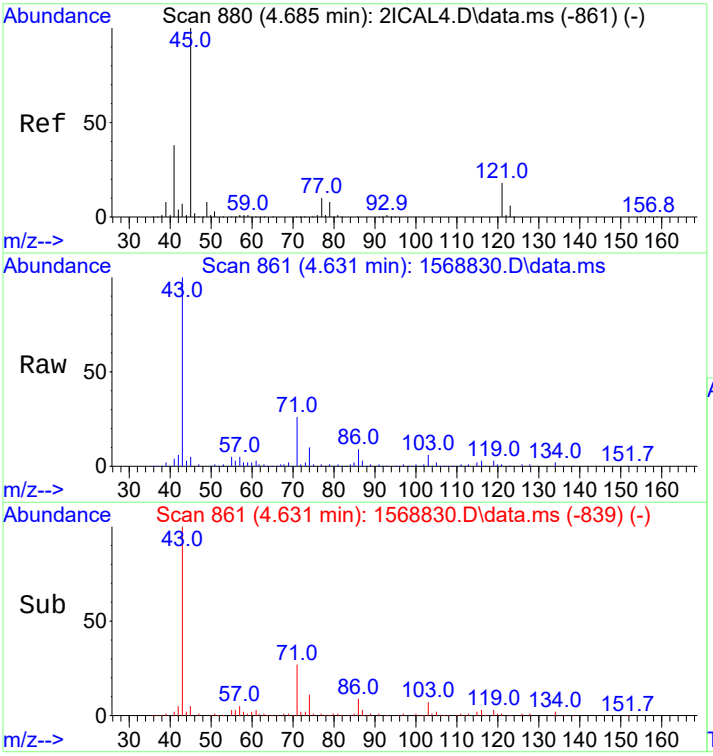




#3
Pyridine
Concen: 0.64 ug/mL
RT: 2.608 min Scan# 149
Delta R.T. 0.299 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion: 79 Resp: 7730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 107.2 | 62.5 | 122.5 |

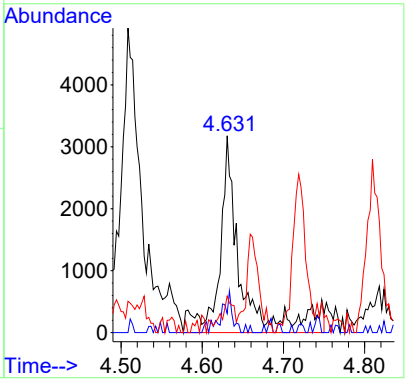


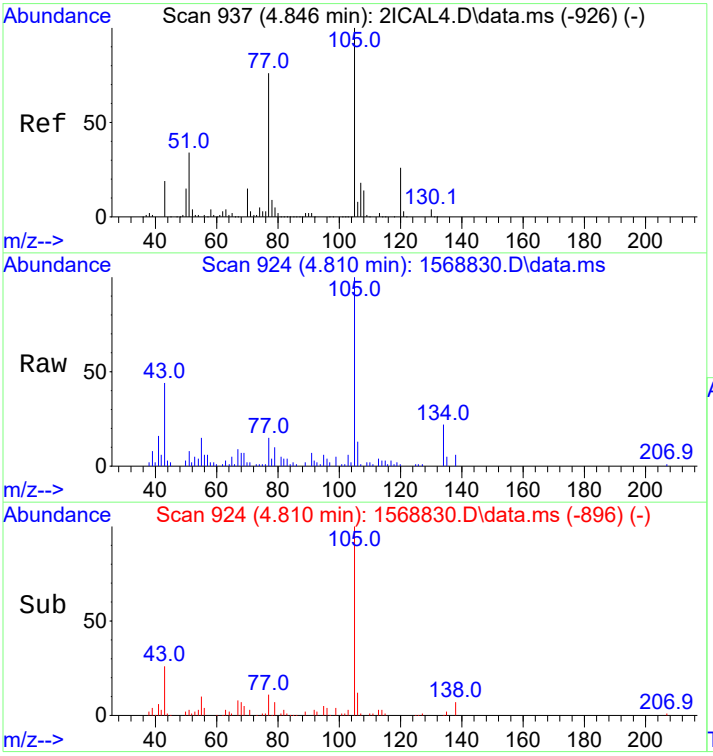



#14
bis2clispreth
Concen: 0.28 ug/mL
RT: 4.631 min Scan# 861
Delta R.T. -0.037 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion: 45 Resp: 5707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 9.8 | 0.0 | 47.5 |
| 77 | 18.5 | 0.0 | 40.1 |

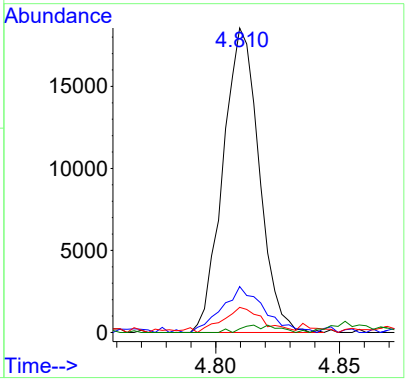


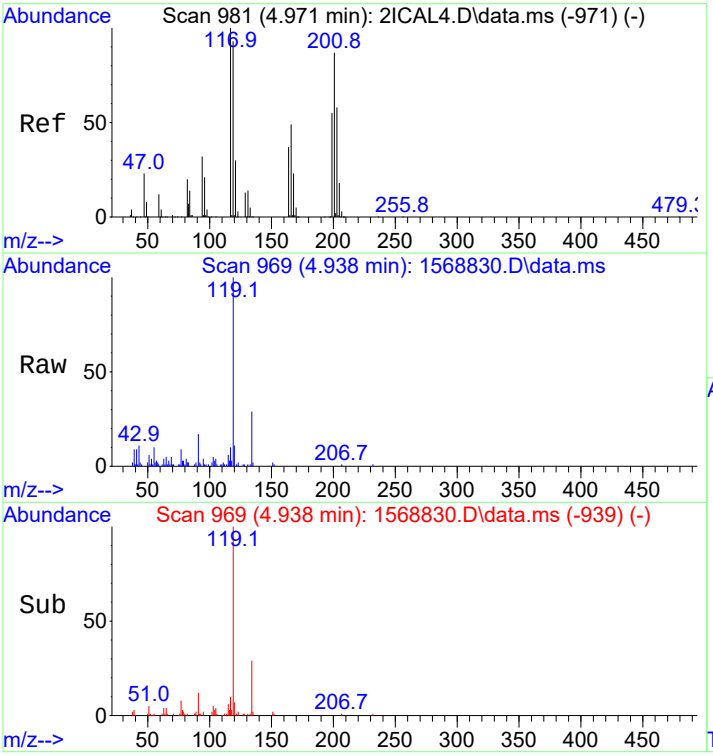




#17
Acetophenone
Concen: 1.14 ug/mL
RT: 4.810 min Scan# 924
Delta R.T. -0.020 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:105 Resp: 18804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 14.0 | 46.3 | 106.3# |
| 51 | 7.3 | 3.7 | 63.7 |
| 120 | 0.7 | 0.0 | 55.6 |

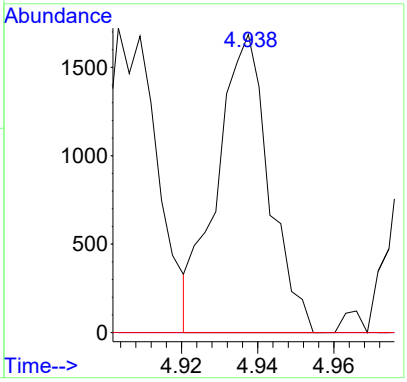


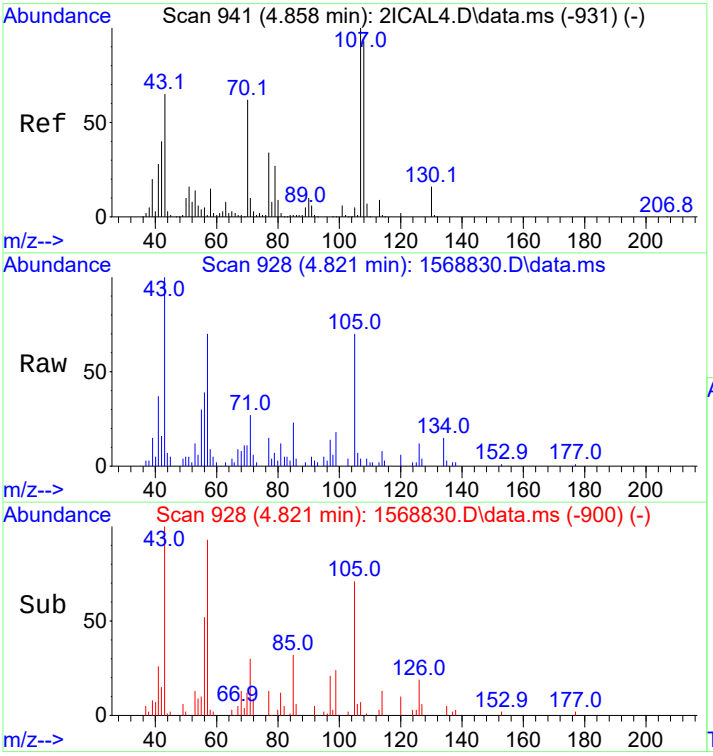



#18
Hexaclethane
Concen: 0.32 ug/mL
RT: 4.938 min Scan# 969
Delta R.T. -0.014 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:117 Resp: 1603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 0.0 | 56.5 | 116.5# |
| 199 | 0.0 | 25.0 | 85.0# |

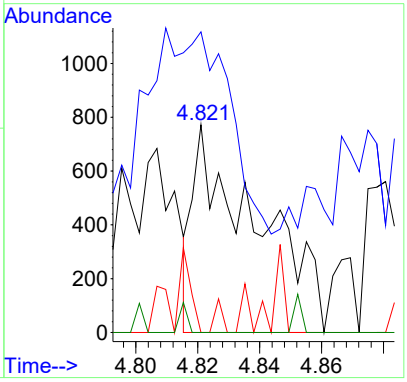


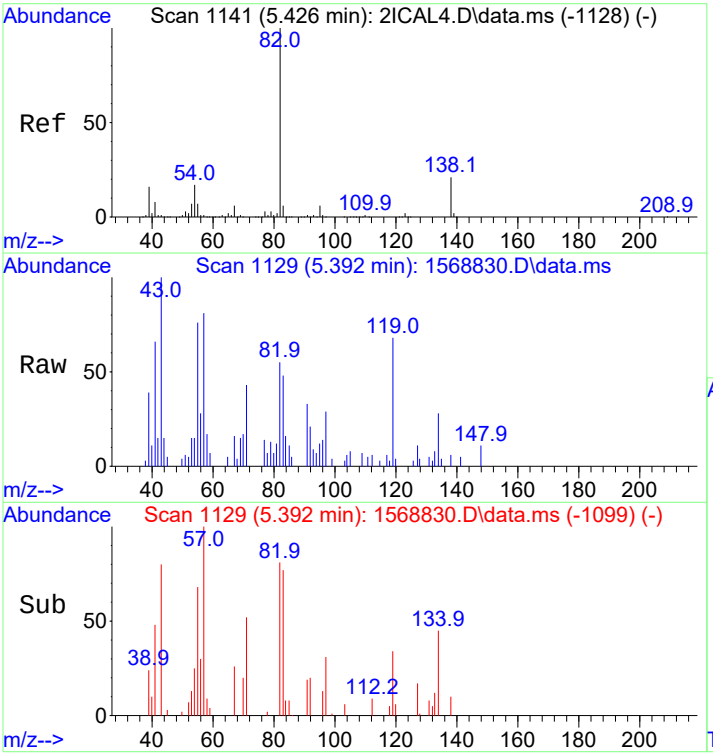




#19
N-Ntrsdinprop
Concen: 0.14 ug/mL
RT: 4.821 min Scan# 928
Delta R.T. -0.020 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion: 70 Resp: 1104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 85.6 | 40.3 | 100.3 |
| 101 | 0.0 | 0.0 | 40.5 |
| 130 | 0.0 | 0.0 | 55.7 |

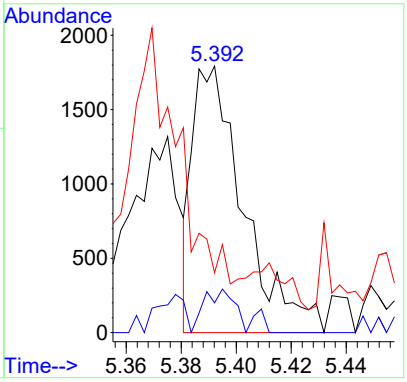


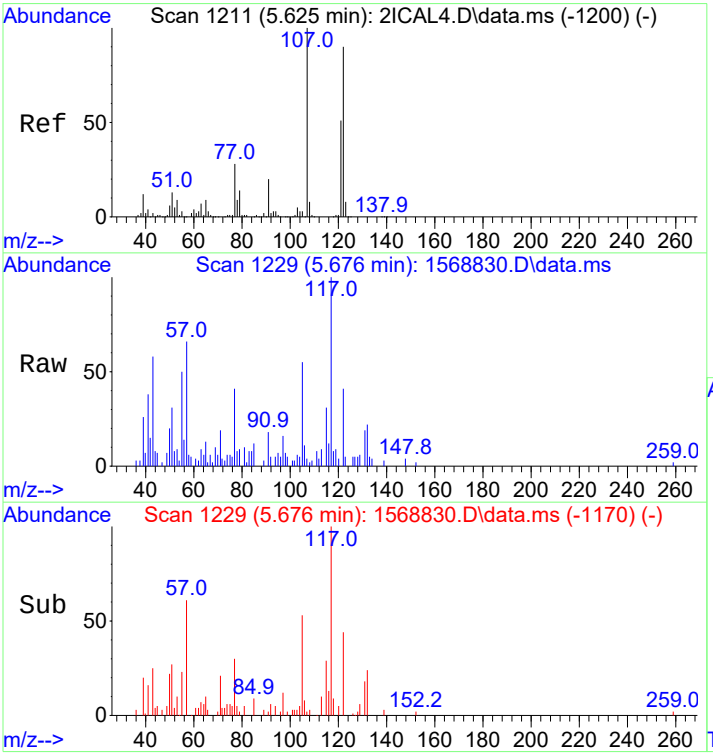



#24
Isophorone
Concen: 0.10 ug/mL
RT: 5.392 min Scan# 1129
Delta R.T. -0.014 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion: 82 Resp: 2304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 138 | 11.2 | 0.0 | 51.2 |
| 95 | 0.0 | 0.0 | 36.4 |

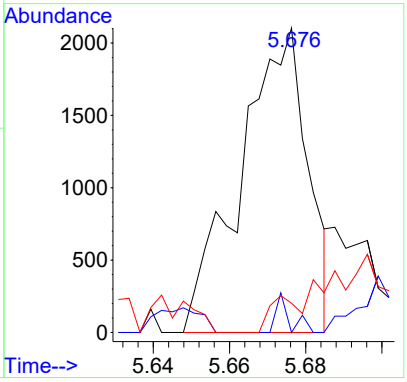


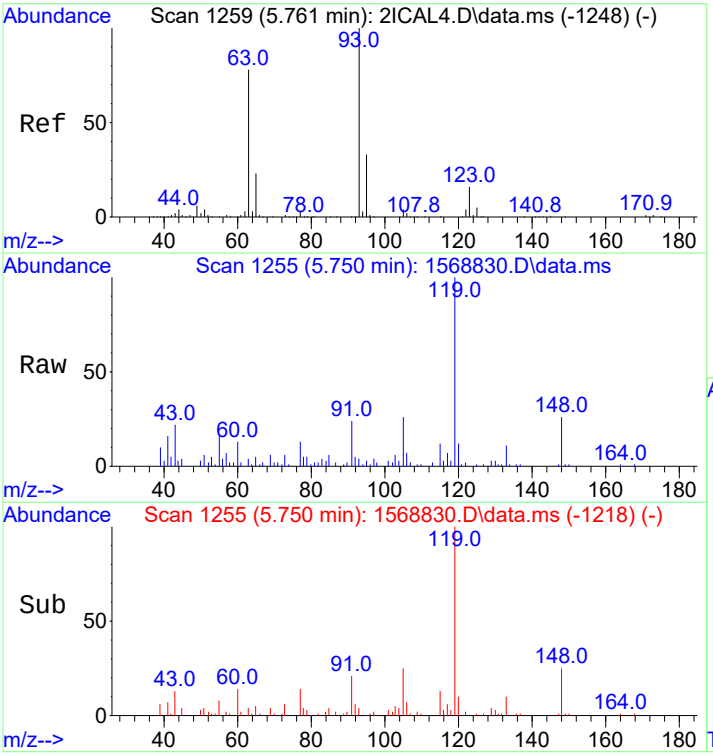




#26
24Dimthpheno
Concen: 0.23 ug/mL
RT: 5.676 min Scan# 1229
Delta R.T. 0.068 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:122 Resp: 2585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 0.0 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

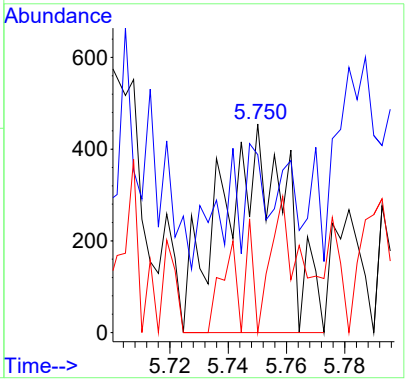


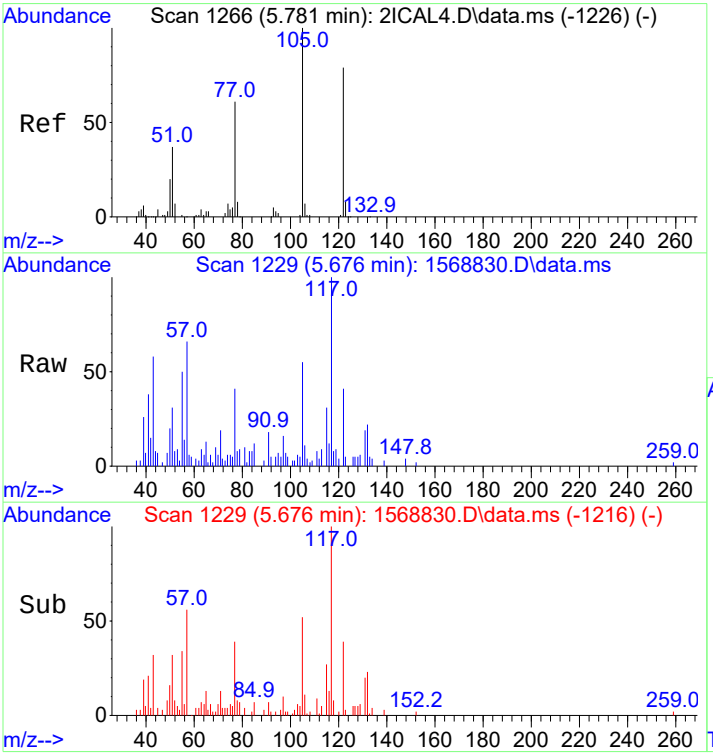



#27
bis2clethoxym
Concen: 0.05 ug/mL
RT: 5.750 min Scan# 1255
Delta R.T. 0.006 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion: 93 Resp: 706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 51.2 | 3.4 | 63.4 |
| 123 | 0.0 | 0.0 | 45.8 |

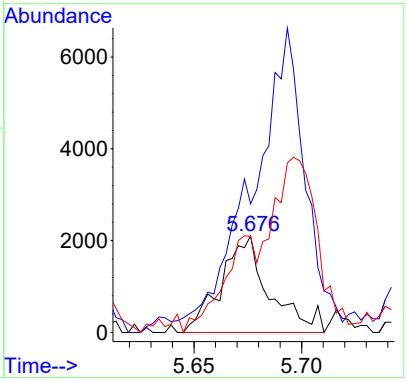


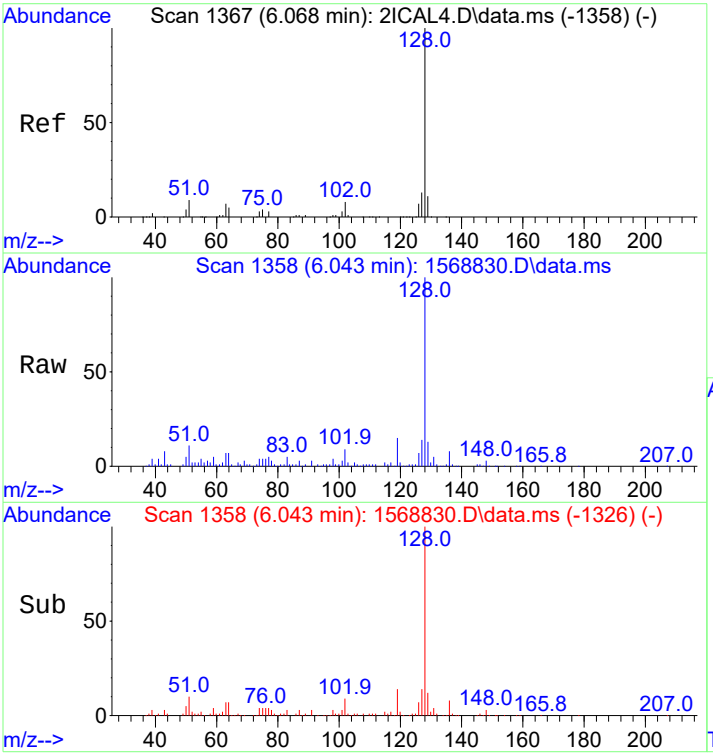




#30
Benzoic acid
Concen: 3.39 ug/mL
RT: 5.676 min Scan# 1229
Delta R.T. -0.094 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:122 Resp: 3273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 118.2 | 96.0 | 156.0 |
| 77 | 89.0 | 46.6 | 106.6 |

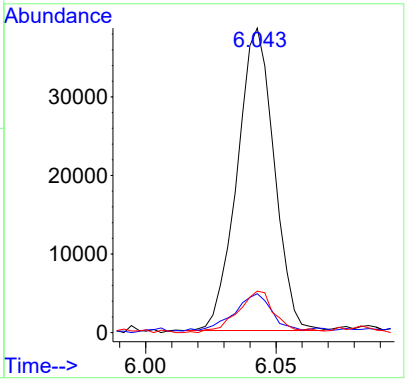


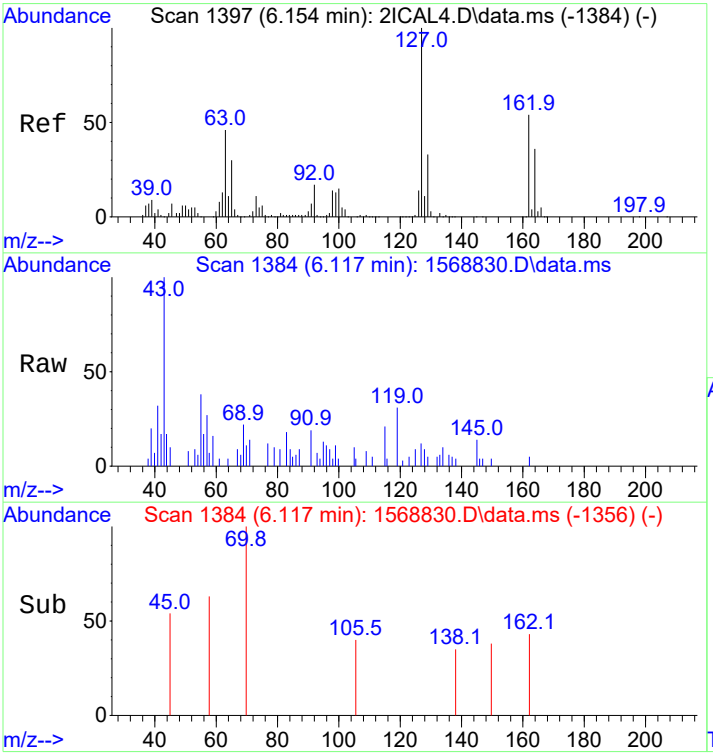



#31
Naphthalene
Concen: 0.97 ug/mL
RT: 6.043 min Scan# 1358
Delta R.T. -0.008 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:128 Resp: 38014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.3 | 0.0 | 41.0 |
| 127 | 13.7 | 0.0 | 43.3 |

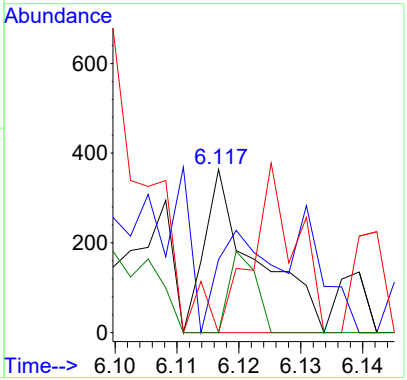


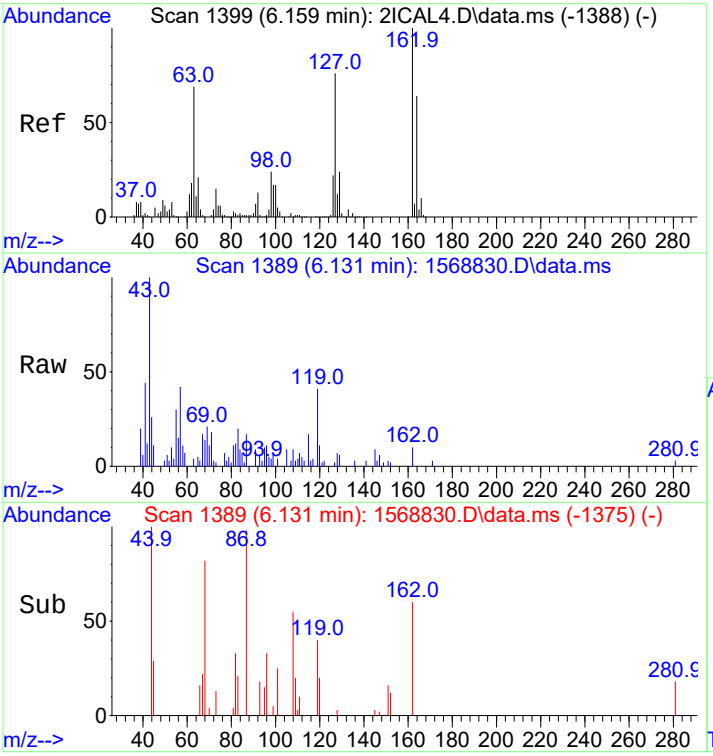




#32
4-Cl-aniline
Concen: 0.01 ug/mL
RT: 6.117 min Scan# 1384
Delta R.T. -0.020 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:127 Resp: 213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 16.5 | 3.1 | 63.1 |
| 65 | 0.0 | 0.2 | 60.2# |
| 92 | 0.0 | 0.0 | 46.7 |

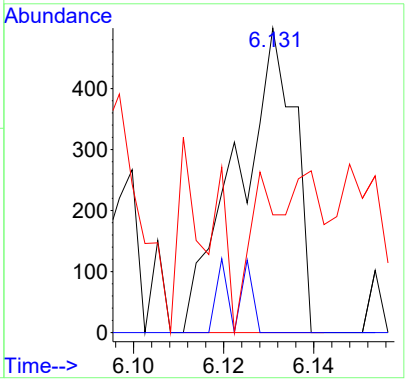


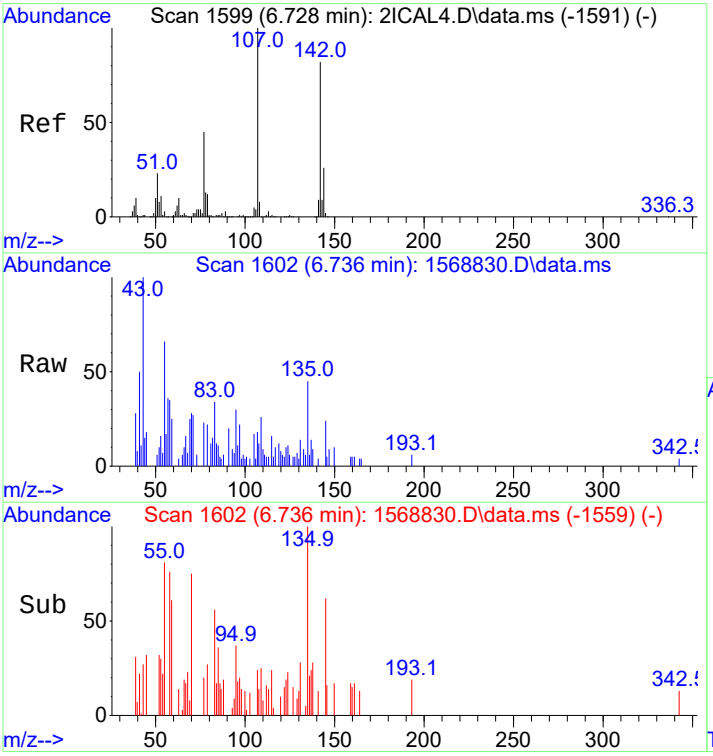



#33
26Diclphenol
Concen: 0.04 ug/mL
RT: 6.131 min Scan# 1389
Delta R.T. -0.011 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:162 Resp: 441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 0.0 | 33.9 | 93.9# |
| 98 | 3.2 | 0.0 | 54.3 |

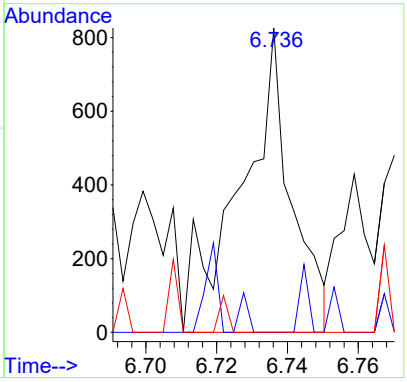


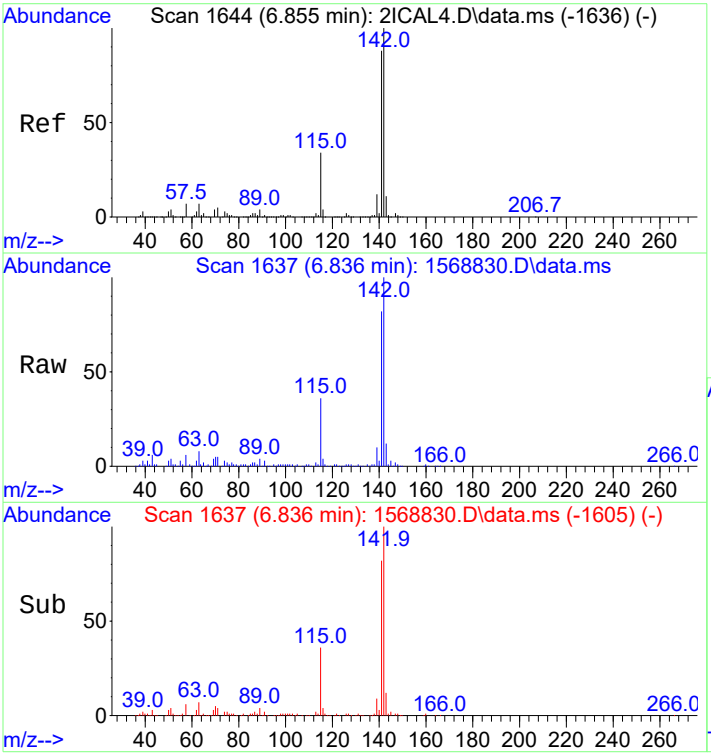




#36
4Cl3methylphe
Concen: 0.08 ug/mL
RT: 6.736 min Scan# 1602
Delta R.T. 0.023 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:107 Resp: 815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 142 | 0.0 | 51.9 | 111.9# |
| 144 | 0.0 | 0.0 | 55.8 |

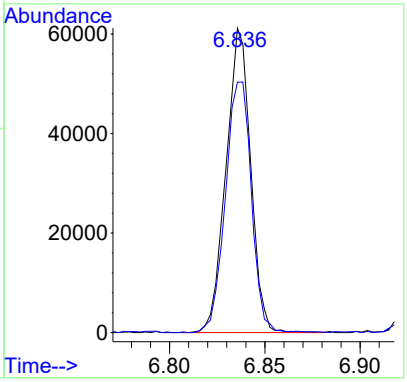


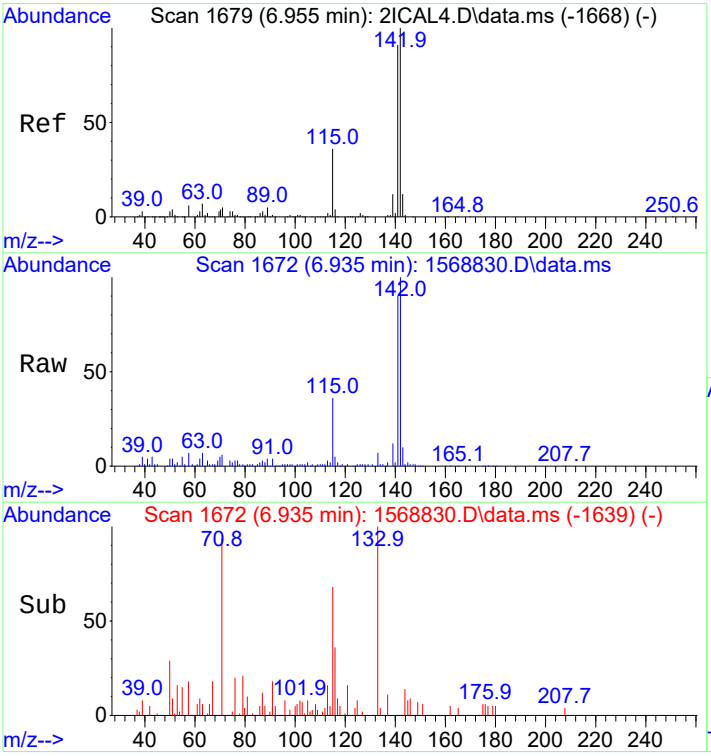



#37
2Methylnaphth
Concen: 2.31 ug/mL
RT: 6.836 min Scan# 1637
Delta R.T. -0.008 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:142 Resp: 55010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 82.0 | 58.0 | 118.0 |

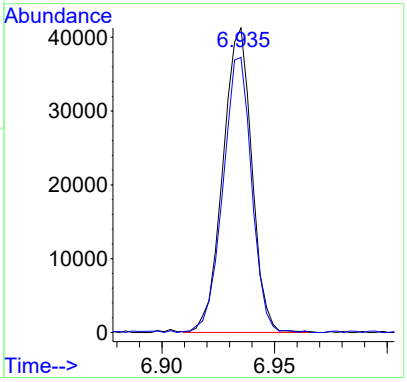


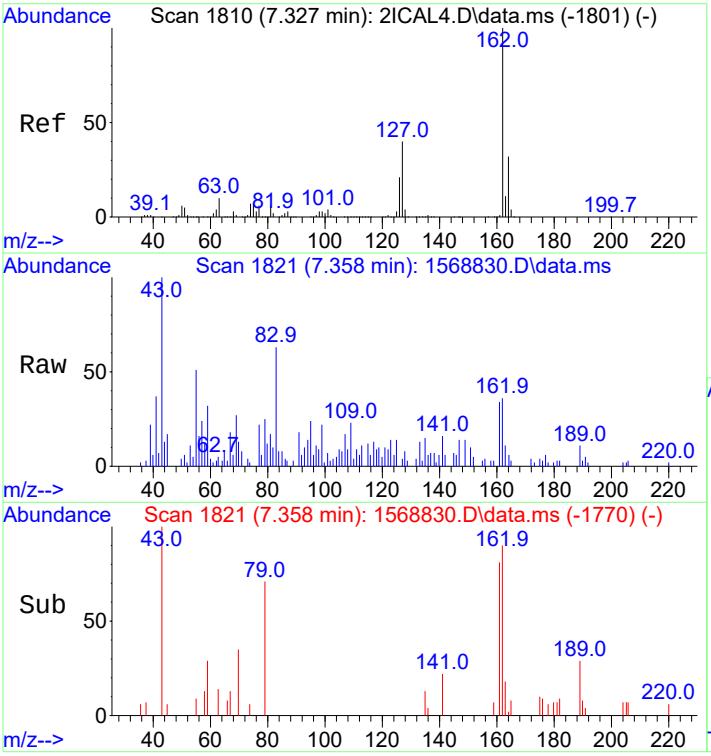




#38
1Methylnaphth
Concen: 1.50 ug/mL
RT: 6.935 min Scan# 1672
Delta R.T. -0.006 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:142 Resp: 36863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.3 | 60.7 | 120.7 |

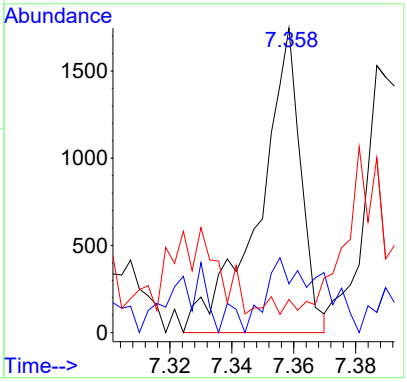


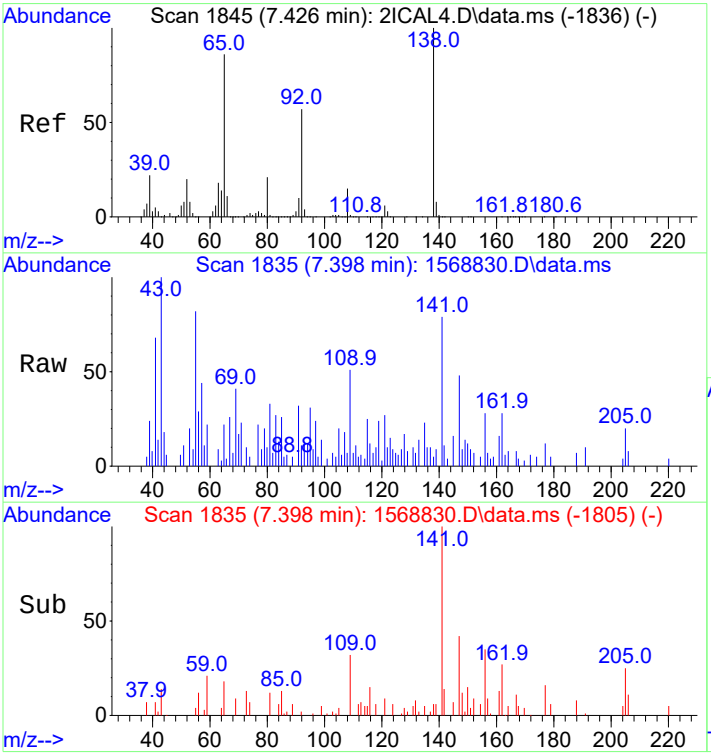



#45
2Clnaphthalen
Concen: 0.07 ug/mL
RT: 7.358 min Scan# 1821
Delta R.T. 0.046 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:162 Resp: 1637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 0.0 | 2.3 | 62.3# |
| 127 | 0.0 | 10.2 | 70.2# |

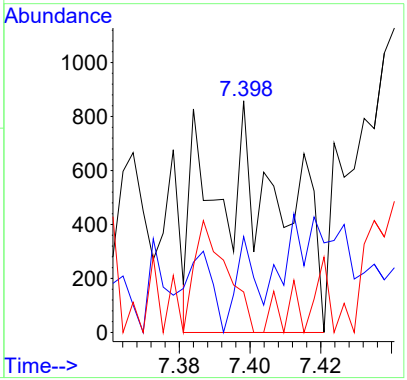


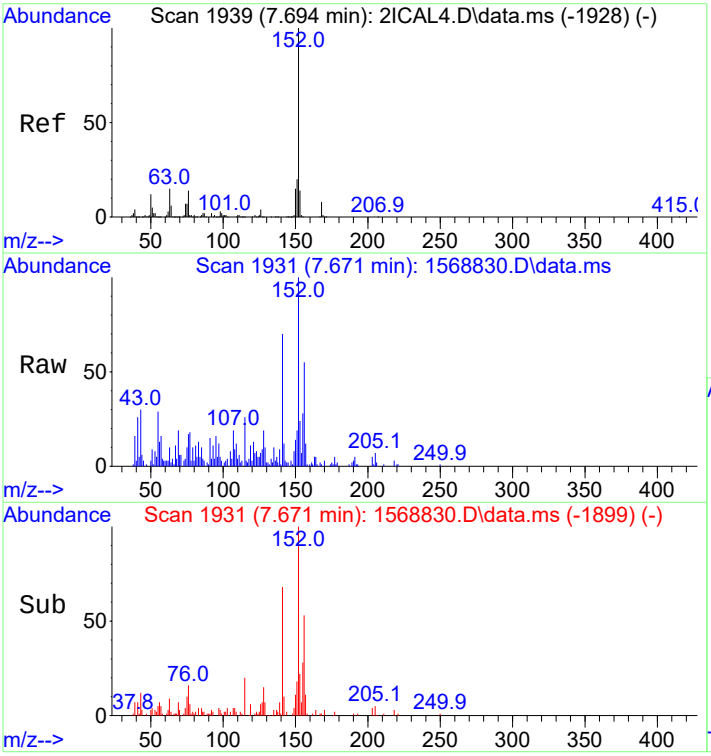




#46
2Nitroaniline
Concen: 0.43 ug/mL
RT: 7.398 min Scan# 1835
Delta R.T. -0.014 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion: 65 Resp: 1172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 22.4 | 36.2 | 96.2# |
| 138 | 17.5 | 85.6 | 145.6# |

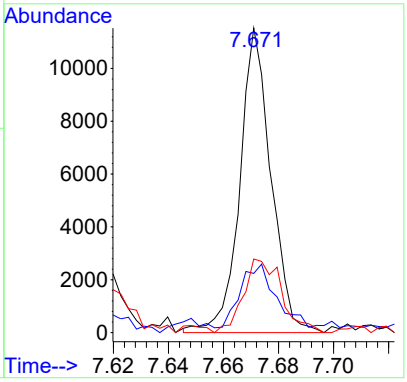


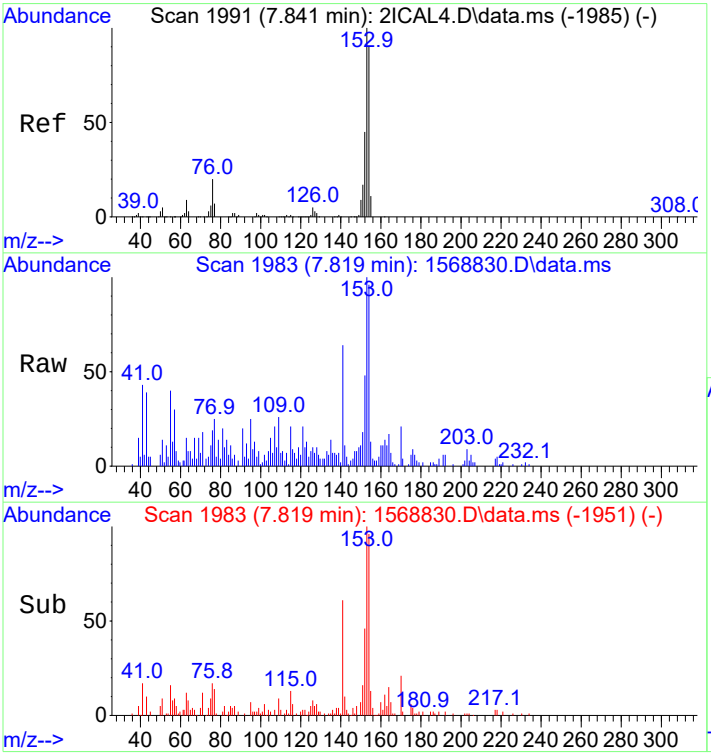



#47
Acnaphthylene
Concen: 0.23 ug/mL
RT: 7.671 min Scan# 1931
Delta R.T. -0.008 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:152 Resp: 9065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 17.1 | 0.0 | 50.3 |
| 153 | 24.2 | 0.0 | 44.4 |

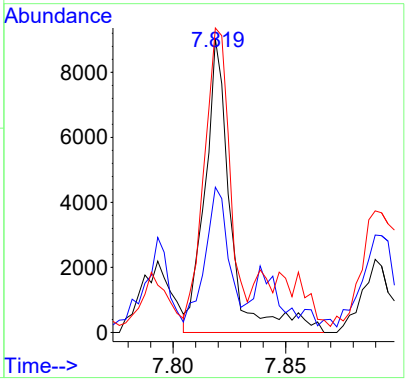


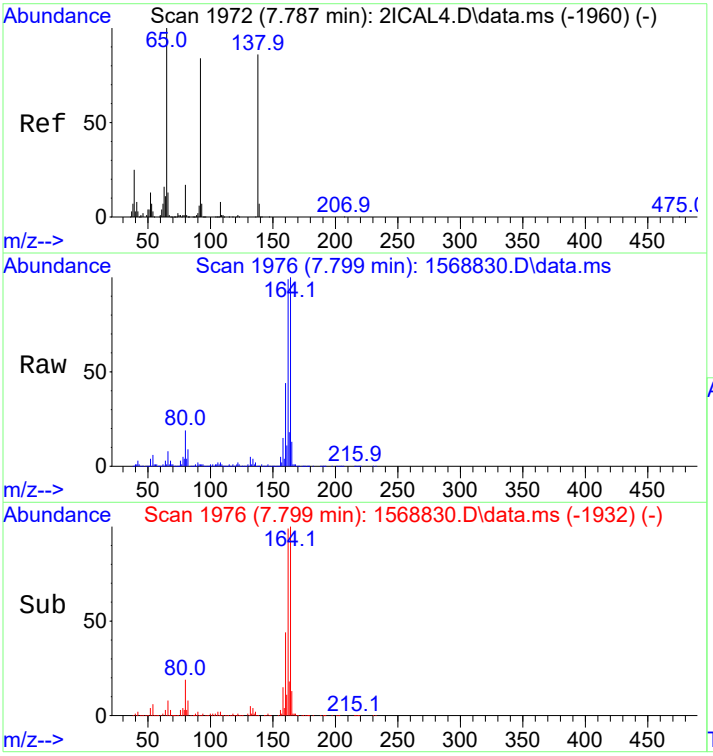




#50
Acenaphthene
Concen: 0.31 ug/mL
RT: 7.819 min Scan# 1983
Delta R.T. -0.008 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:154 Resp: 7143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 45.9 | 20.0 | 80.0 |
| 153 | 99.5 | 80.7 | 140.7 |

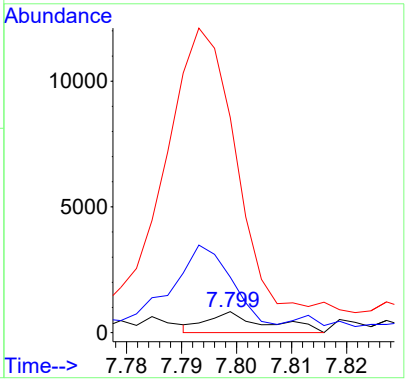


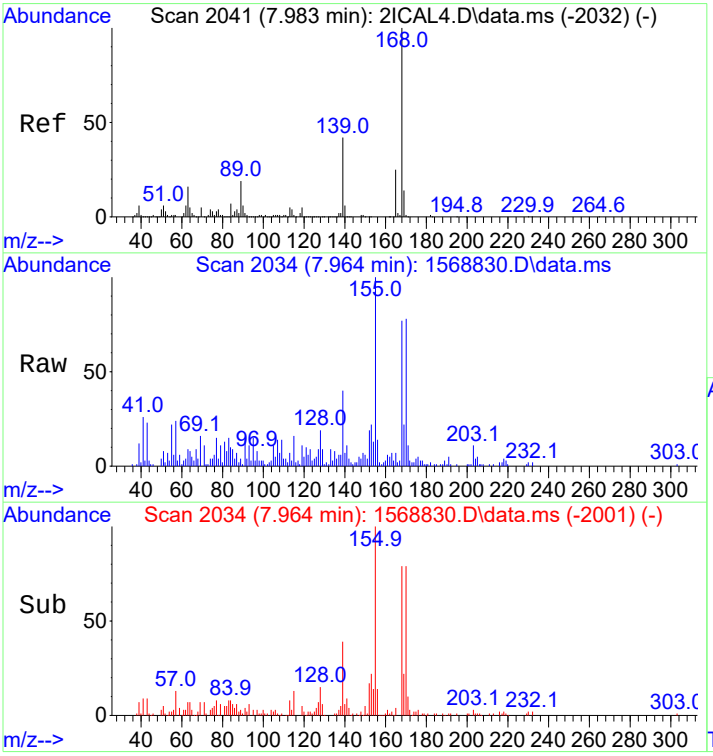



#51
3Nitroaniline
Concen: 0.33 ug/mL
RT: 7.799 min Scan# 1976
Delta R.T. 0.026 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:138 Resp: 624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 230.5 | 67.7 | 127.7# |
| 108 | 879.7 | 0.0 | 38.9# |

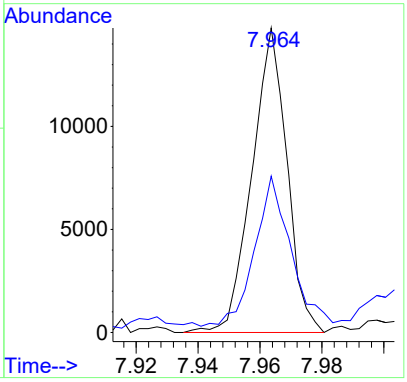


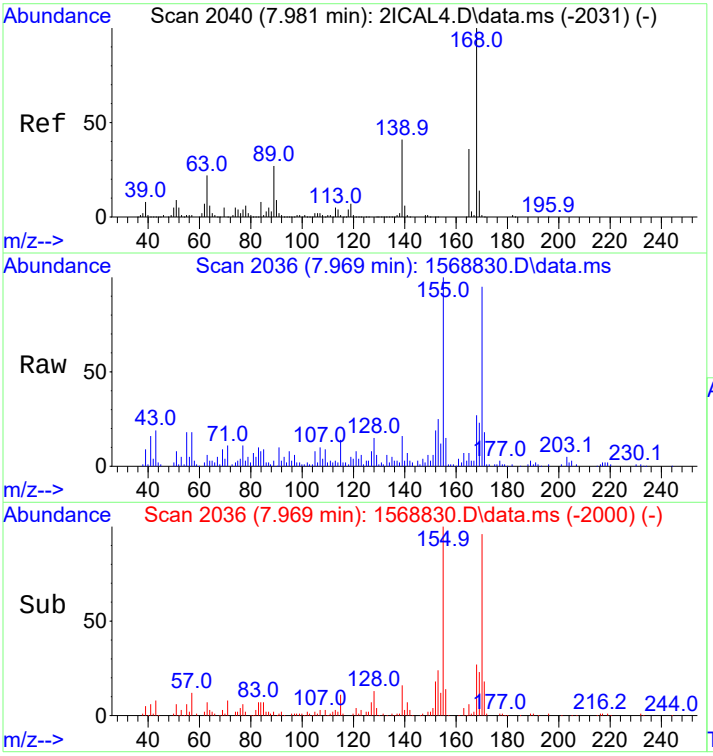




#53
Dibenzofuran
Concen: 0.35 ug/mL
RT: 7.964 min Scan# 2034
Delta R.T. -0.006 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:168 Resp: 11605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 48.7 | 11.9 | 71.9 |

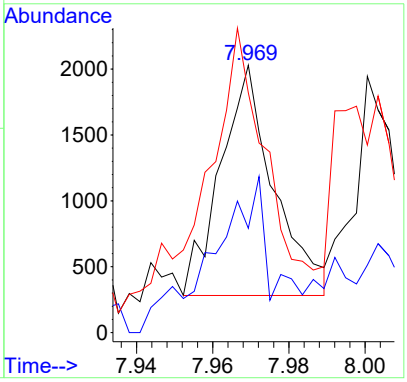


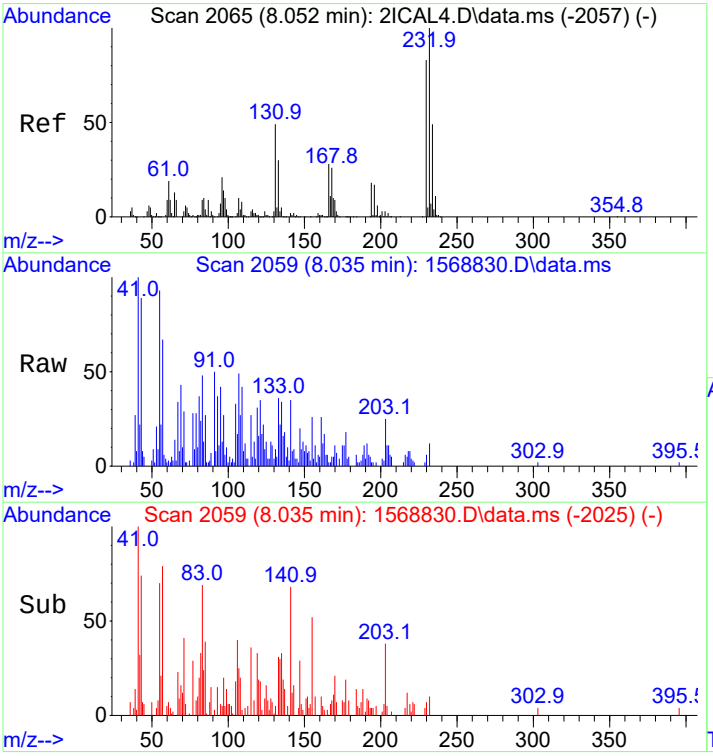



#54
24Dinitrotolu
Concen: 0.20 ug/mL
RT: 7.969 min Scan# 2036
Delta R.T. 0.003 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:165 Resp: 1701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 30.5 | 46.1 | 106.1# |
| 63 | 75.6 | 32.6 | 92.6 |

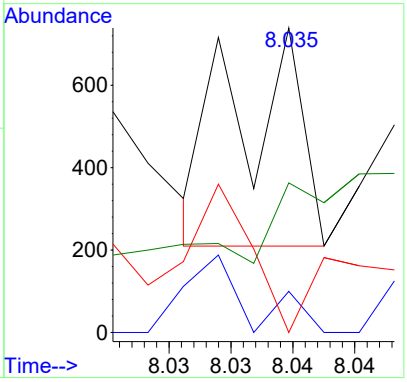


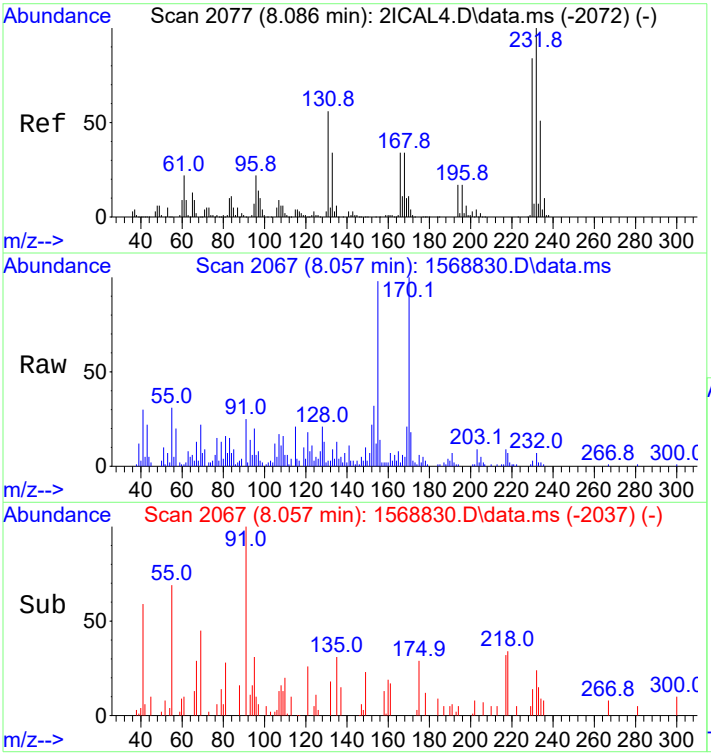




#56
2,3,5,6-Tetrachlorop
Concen: 0.58 ug/mL
RT: 8.035 min Scan# 2059
Delta R.T. -0.003 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:232 Resp: 200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 194 | 18.9 | 0.0 | 48.3 |
| 234 | 0.0 | 18.5 | 78.5# |
| 230 | 28.2 | 52.6 | 112.6# |

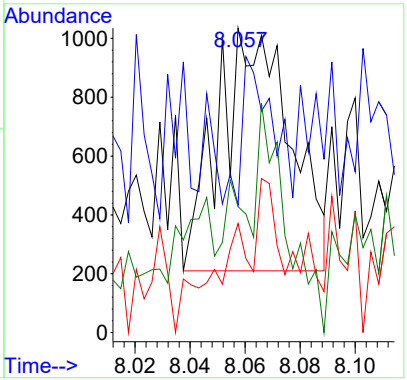


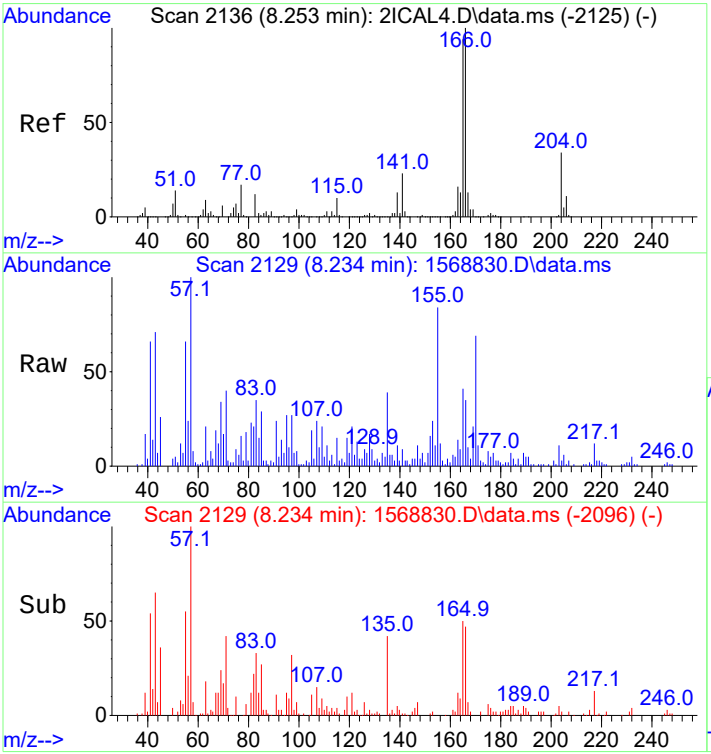



#57
2,3,4,6-Tetrachlorop
Concen: 0.56 ug/mL
RT: 8.057 min Scan# 2067
Delta R.T. -0.014 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:232 Resp: 1496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 0.0 | 35.2 | 75.2# |
| 234 | 28.1 | 31.0 | 71.0# |
| 230 | 51.9 | 64.0 | 104.0# |

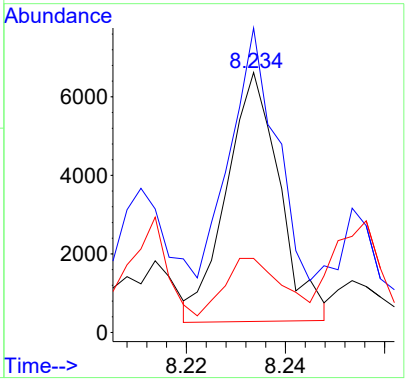


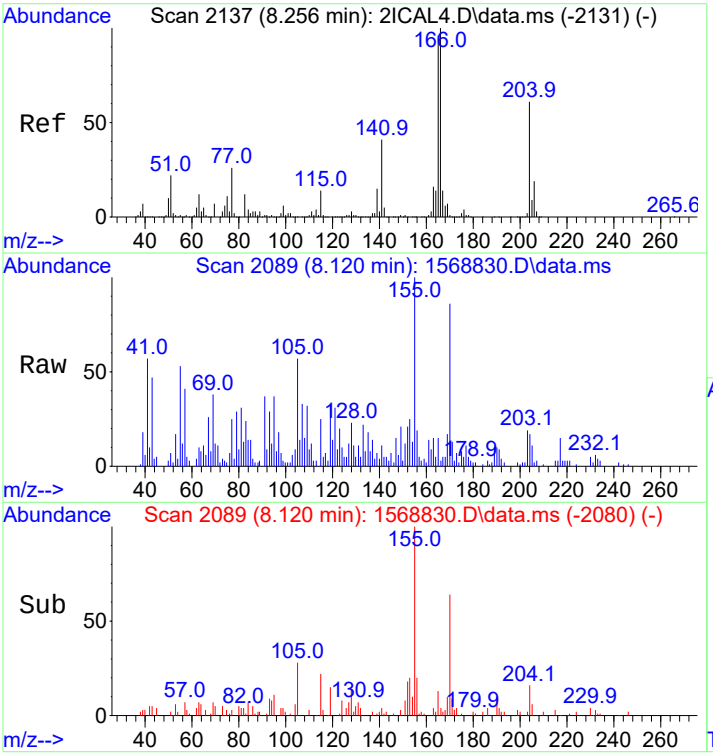




#58
Fluorene
Concen: 0.18 ug/mL
RT: 8.234 min Scan# 2129
Delta R.T. -0.006 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:166 Resp: 4718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 103.2 | 63.6 | 123.6 |
| 167 | 20.1 | 0.0 | 43.3 |

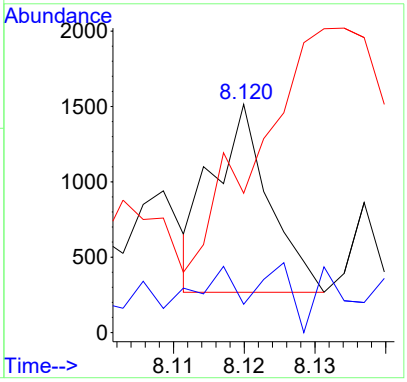


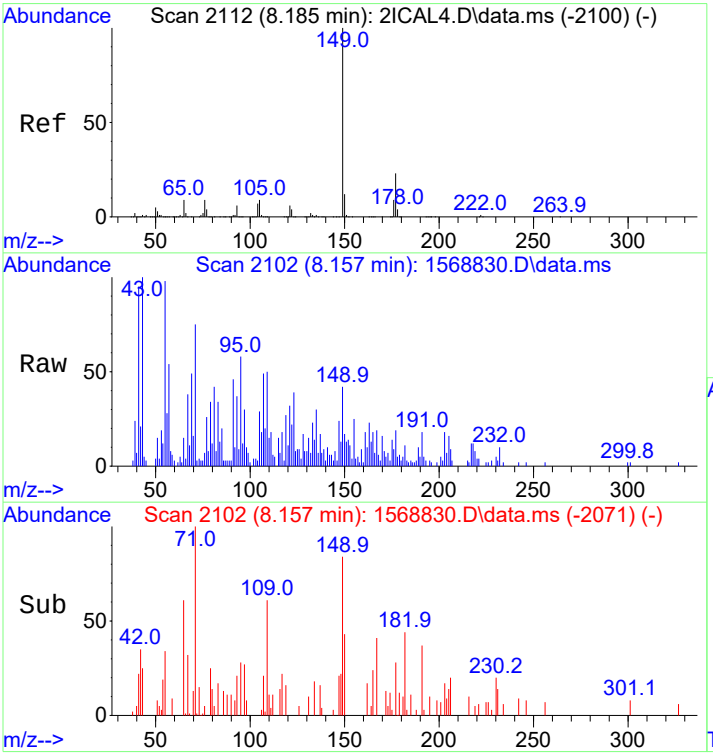



#59
4Clphlphlethr
Concen: 0.06 ug/mL
RT: 8.120 min Scan# 2089
Delta R.T. -0.125 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:204 Resp: 695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 0.0 | 0.7 | 60.7# |
| 141 | 42.0 | 36.1 | 96.1 |

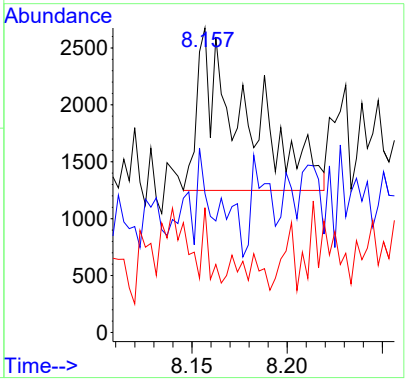


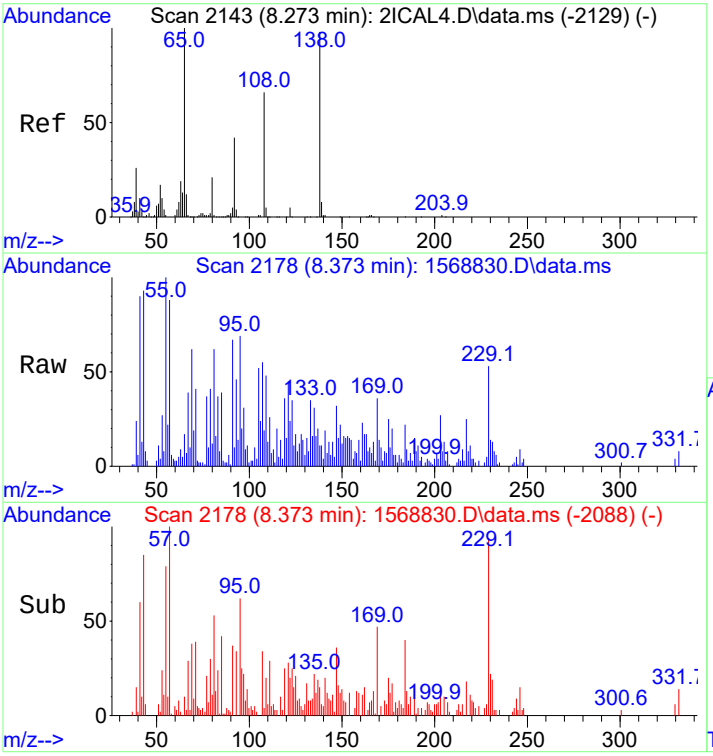




#60
Diethylphthal
Concen: 0.09 ug/mL
RT: 8.157 min Scan# 2102
Delta R.T. -0.011 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:149 Resp: 2447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 25.0 | 0.0 | 52.5 |
| 150 | 9.3 | 0.0 | 42.2 |

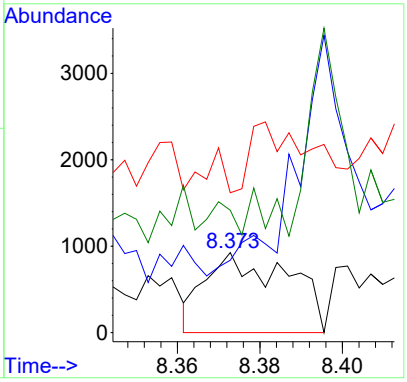


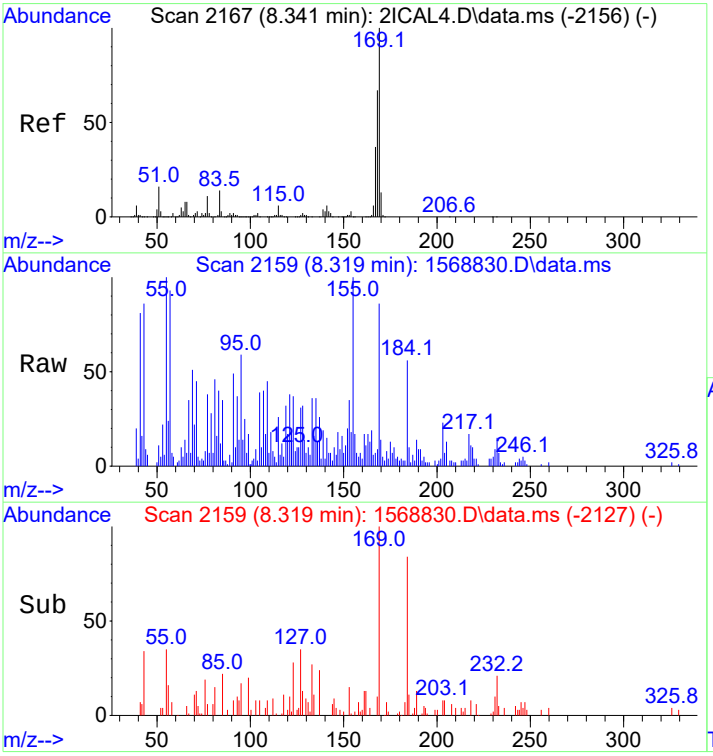



#61
4Nitroaniline
Concen: 0.53 ug/mL
RT: 8.373 min Scan# 2178
Delta R.T. 0.117 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:138 Resp: 1278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 0.0 | 71.1 | 131.1# |

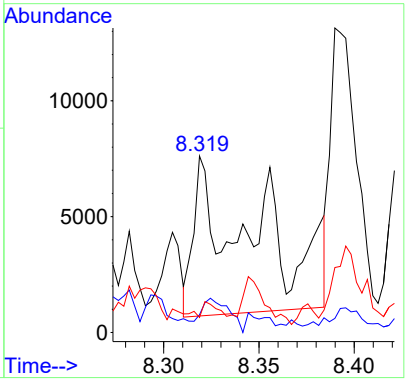


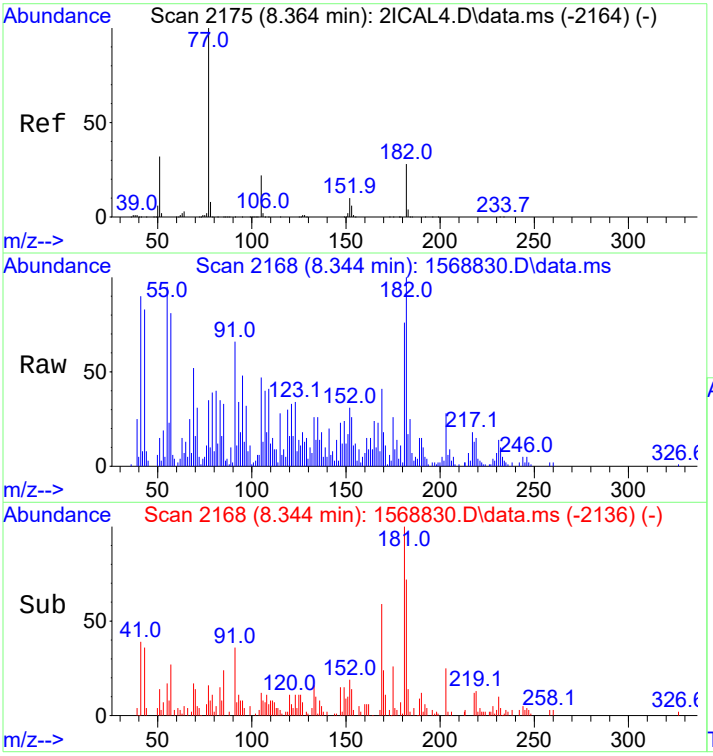




#65
Ntrsdiphlam&Diphlam
Concen: 0.84 ug/mL
RT: 8.319 min Scan# 2159
Delta R.T. -0.008 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:169 Resp: 14731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 3.0 | 37.2 | 97.2# |
| 167 | 0.0 | 6.9 | 66.9# |

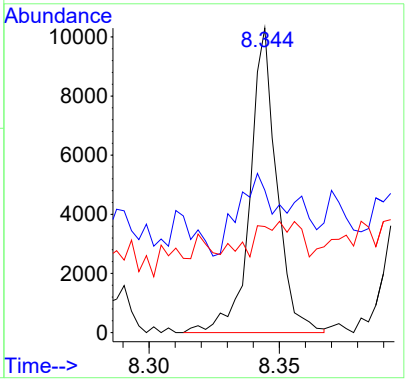


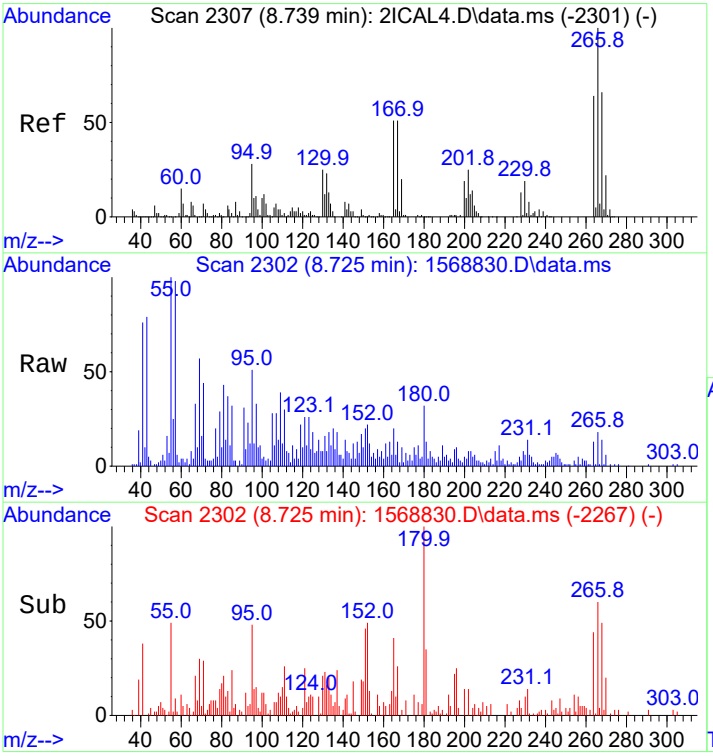



#66
Azobenz&12Diphlhyd
Concen: 1.17 ug/mL
RT: 8.344 min Scan# 2168
Delta R.T. -0.008 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:182 Resp: 7330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 10.8 | 49.9 | 109.9# |
| 77 | 10.4 | 339.9 | 399.9# |

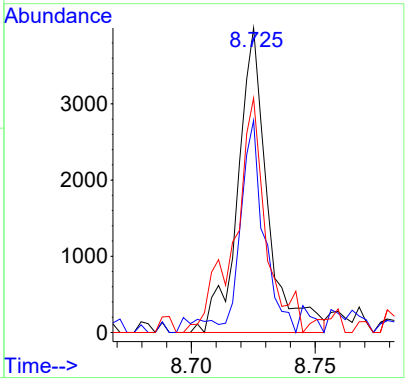


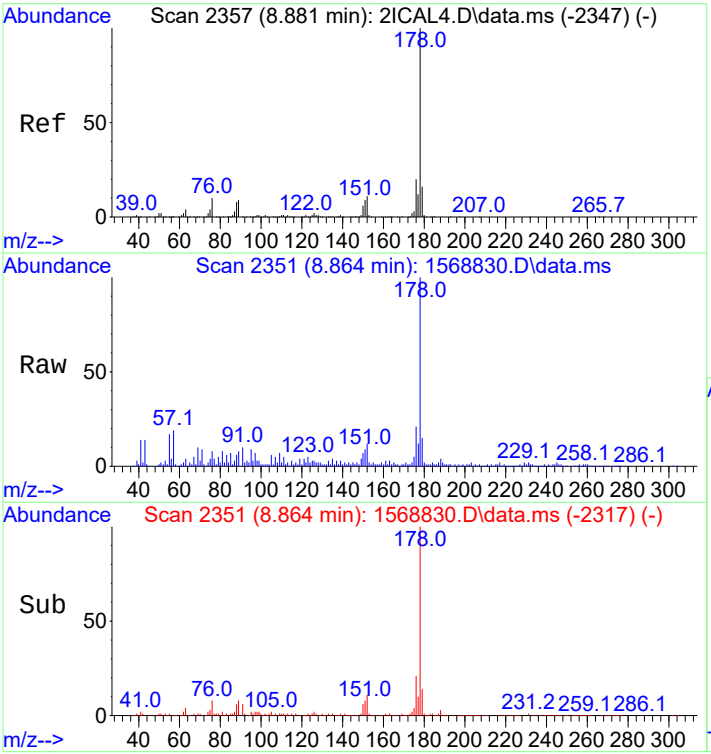




#69
Pentaclphenol
Concen: 4.30 ug/mL
RT: 8.725 min Scan# 2302
Delta R.T. 0.000 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:266 Resp: 3339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 65.1 | 34.2 | 94.2 |
| 268 | 71.9 | 36.2 | 96.2 |

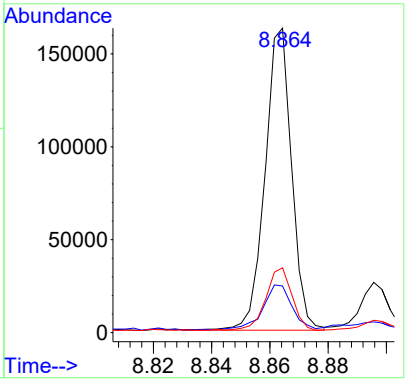


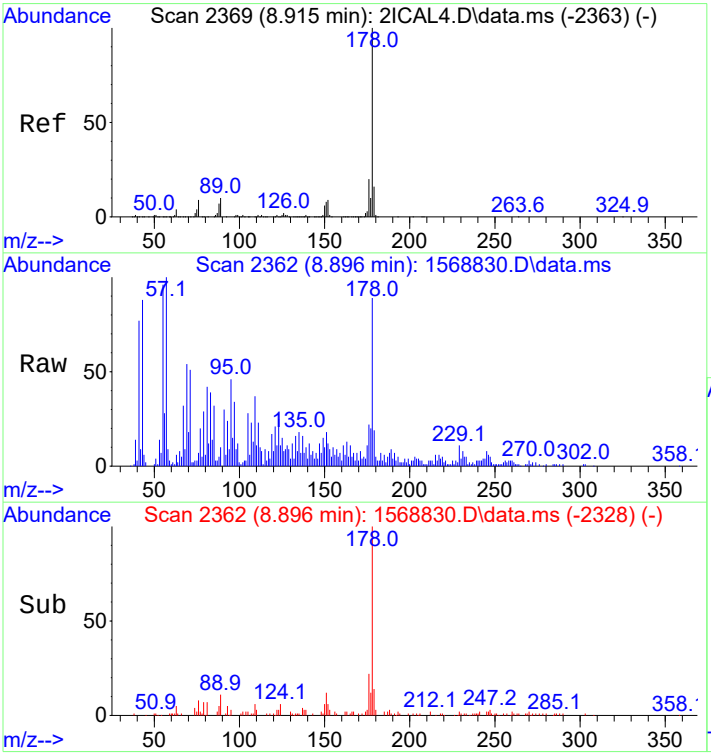



#70
Phenanthrene
Concen: 3.10 ug/mL
RT: 8.864 min Scan# 2351
Delta R.T. -0.003 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:178 Resp: 103358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 14.5 | 0.0 | 45.9 |
| 176 | 20.6 | 0.0 | 50.4 |

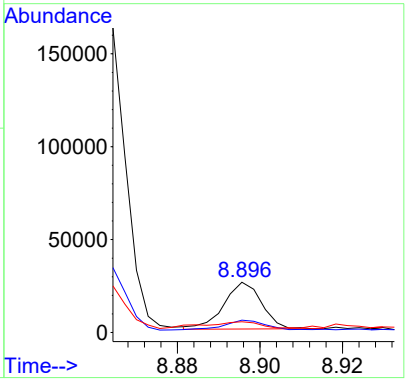


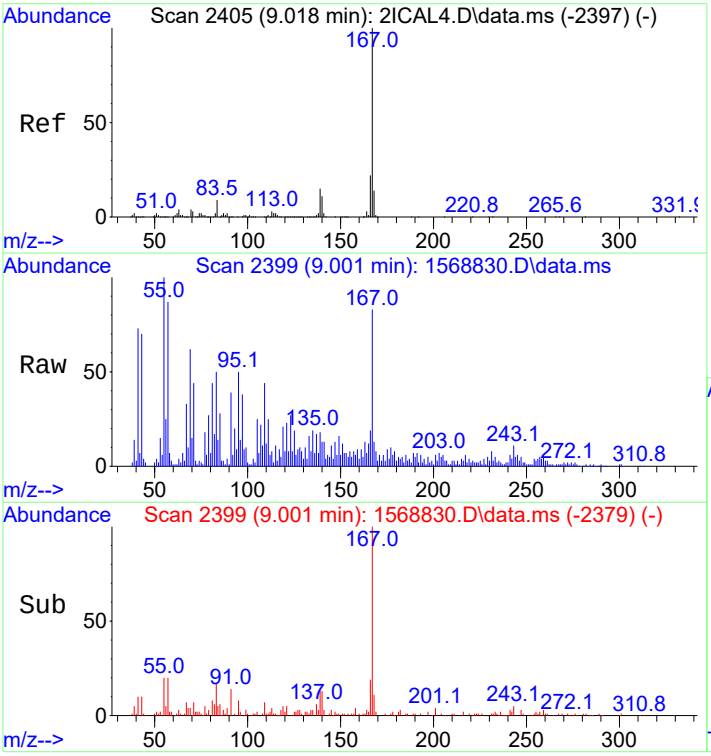




#71
Anthracene
Concen: 0.47 ug/mL
RT: 8.896 min Scan# 2362
Delta R.T. -0.003 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:178 Resp: 15979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.1 | 0.0 | 49.5 |
| 179 | 12.7 | 0.0 | 45.9 |

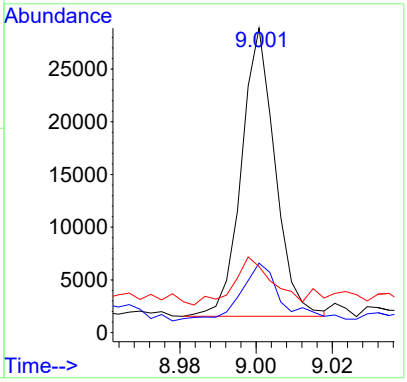


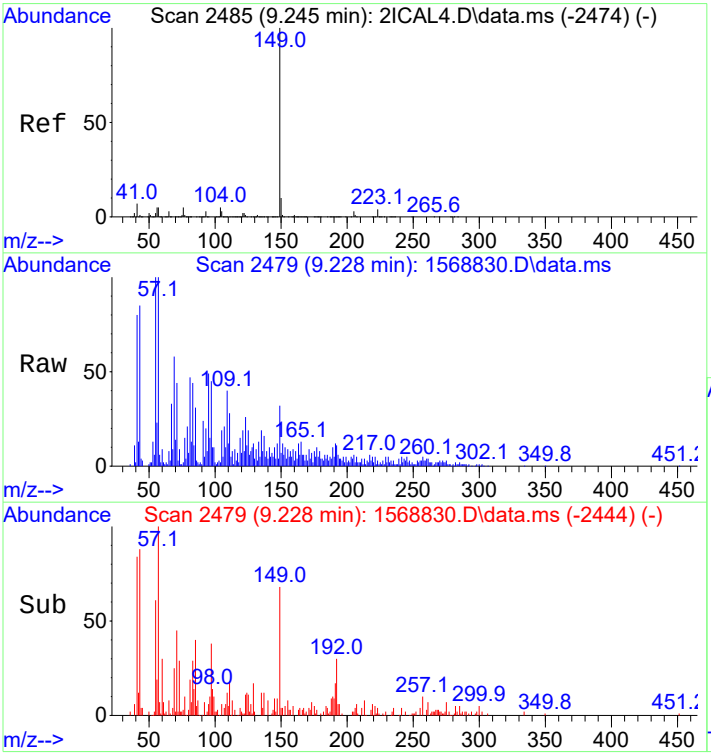



#72
Carbazole
Concen: 0.58 ug/mL
RT: 9.001 min Scan# 2399
Delta R.T. -0.003 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:167 Resp: 16784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 19.3 | 0.0 | 52.1 |
| 139 | 12.2 | 0.0 | 44.7 |

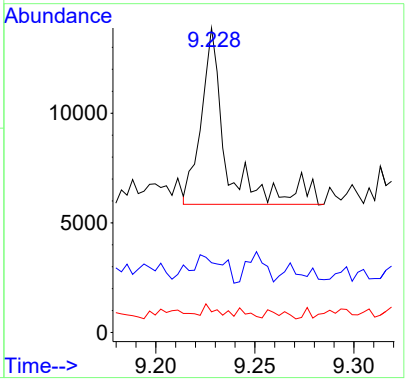


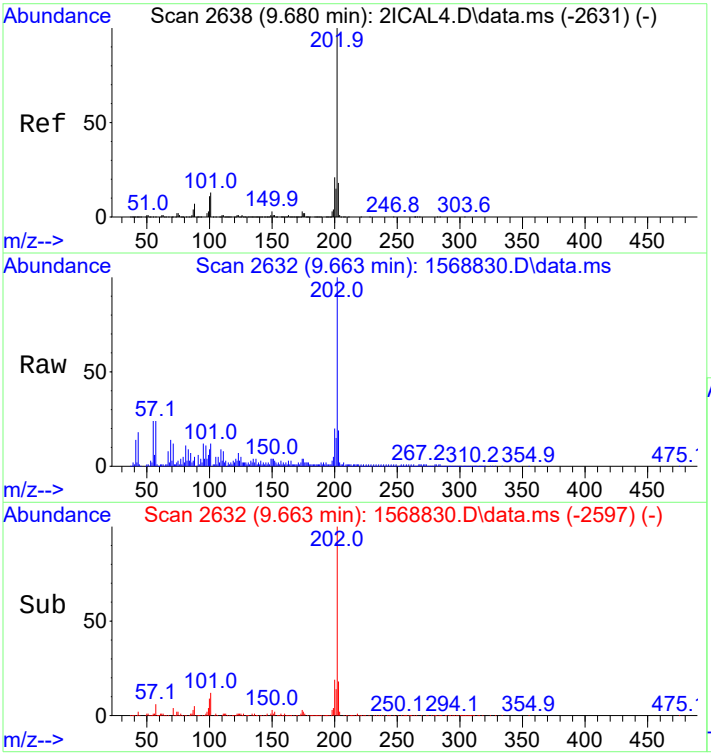




#73
Dinbtylphthal
Concen: 0.17 ug/mL
RT: 9.228 min Scan# 2479
Delta R.T. 0.000 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:149 Resp: 7014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.7 | 0.0 | 39.7 |
| 104 | 0.9 | 0.0 | 35.4 |

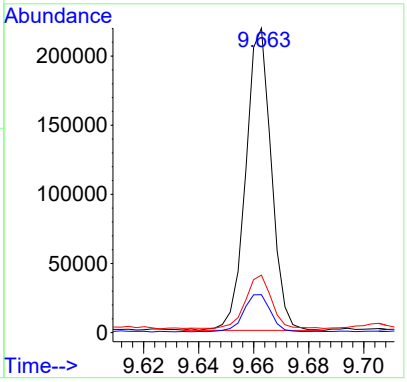


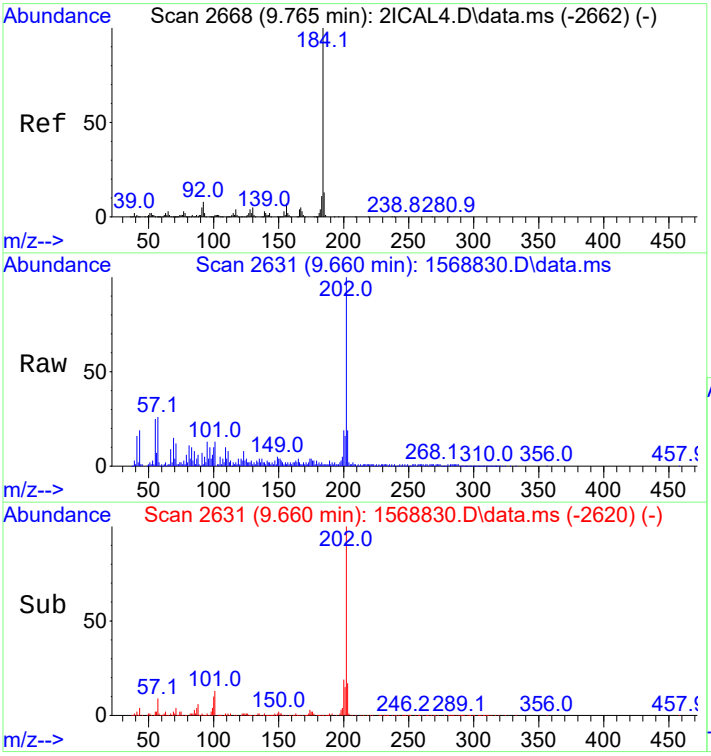



#74
Fluoranthene
Concen: 4.01 ug/mL
RT: 9.663 min Scan# 2632
Delta R.T. 0.000 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:202 Resp: 141116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.2 | 0.0 | 43.0 |
| 203 | 17.6 | 0.0 | 48.2 |

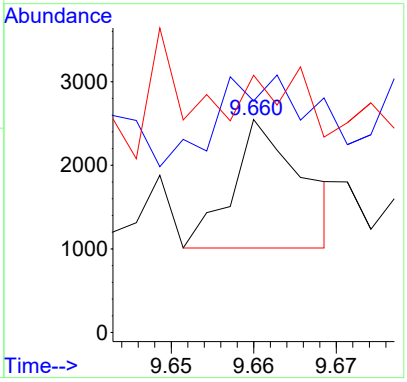


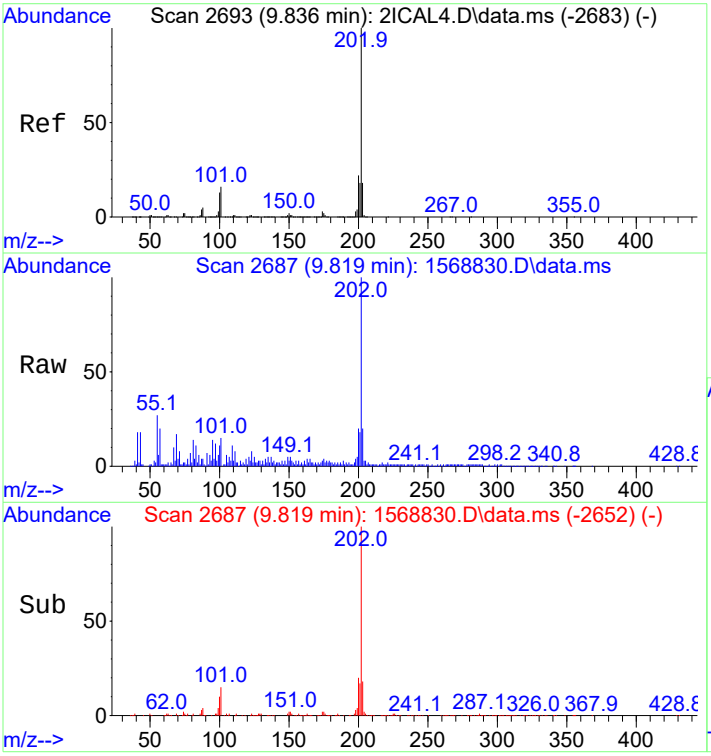




#76
Benzidine
Concen: Below Cal
RT: 9.660 min Scan# 2631
Delta R.T. -0.088 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:184 Resp: 898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 30.0 | 0.0 | 38.2 |
| 185 | 48.2 | 0.0 | 43.3# |

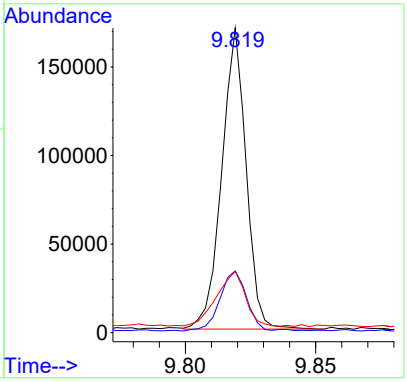


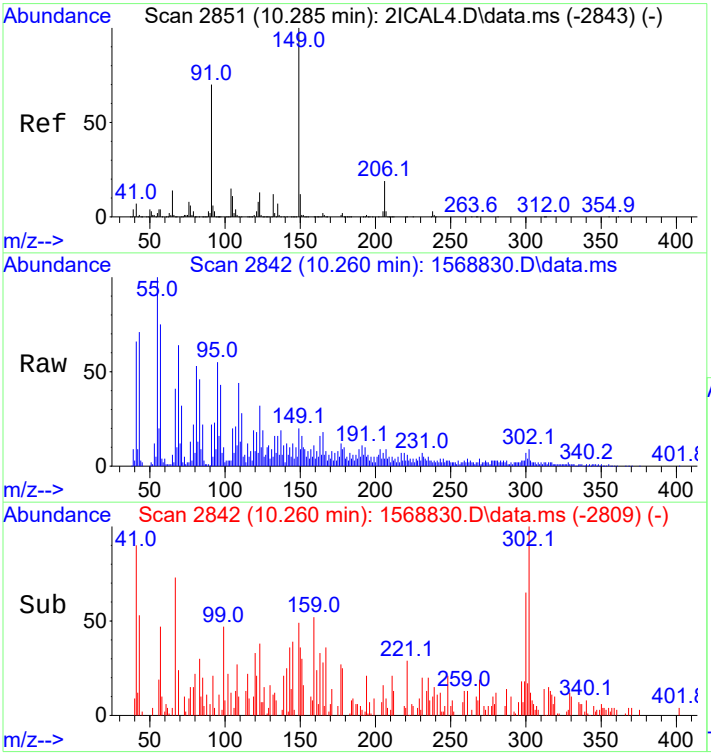



#77
Pyrene
Concen: 3.04 ug/mL
RT: 9.819 min Scan# 2687
Delta R.T. 0.000 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:202 Resp: 110279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.0 | 0.0 | 52.2 |
| 203 | 18.1 | 0.0 | 48.2 |

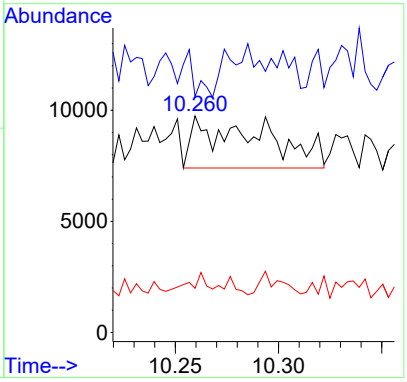


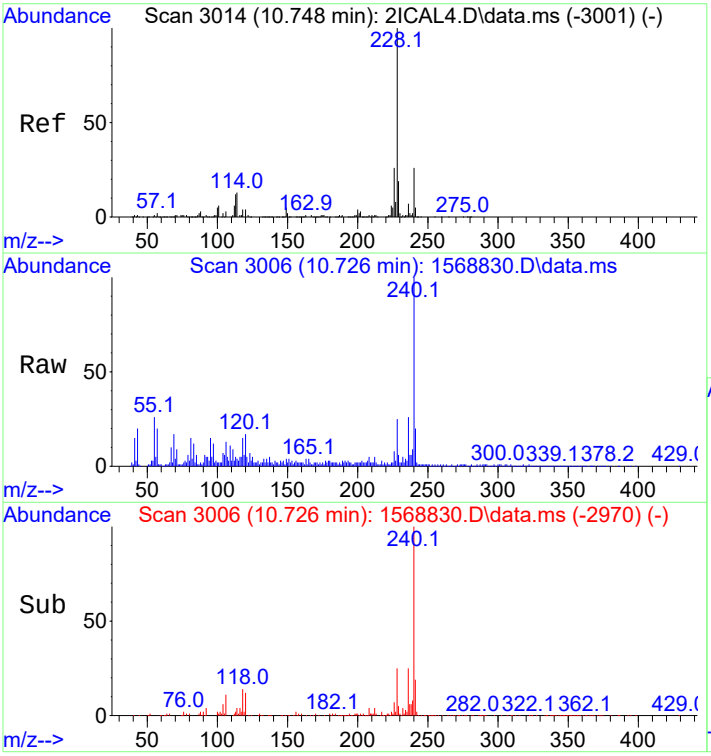




#79
Btylbzylphth
Concen: 0.30 ug/mL
RT: 10.260 min Scan# 2842
Delta R.T. -0.006 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:149 Resp: 5349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 0.0 | 40.1 | 100.1# |
| 206 | 0.0 | 0.0 | 49.4 |

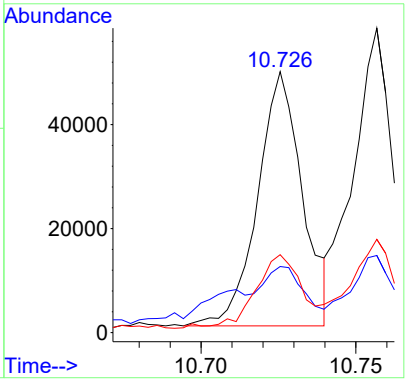


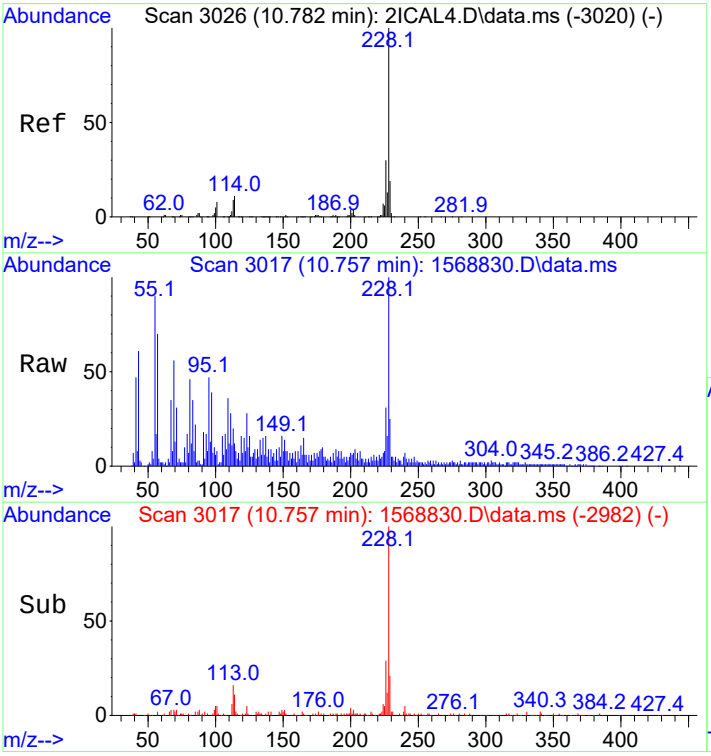



#82
B[a]anthracen
Concen: 1.43 ug/mL
RT: 10.726 min Scan# 3006
Delta R.T. 0.003 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:228 Resp: 49109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.5 | 0.0 | 49.4 |
| 226 | 28.7 | 0.0 | 56.5 |

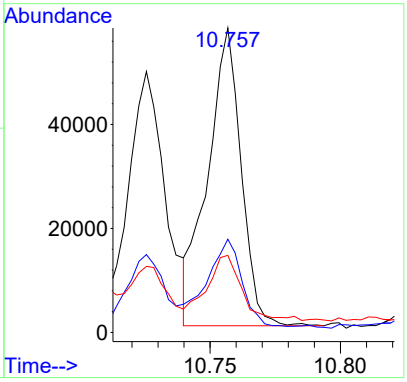


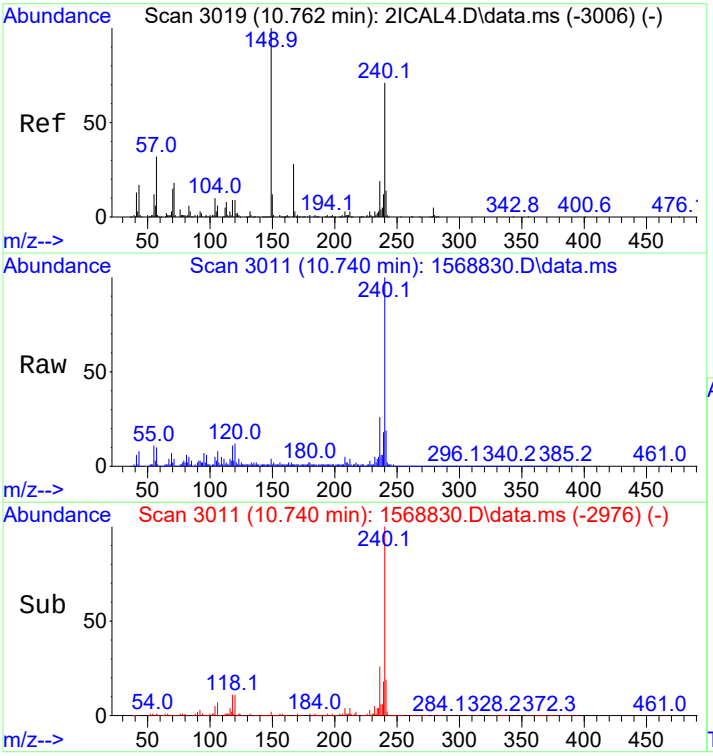




#83
Chrysene
Concen: 1.58 ug/mL
RT: 10.757 min Scan# 3017
Delta R.T. 0.000 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:228 Resp: 51011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.6 | 0.0 | 59.9 |
| 229 | 21.7 | 0.0 | 49.5 |

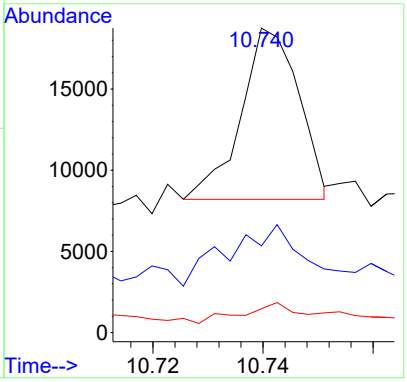


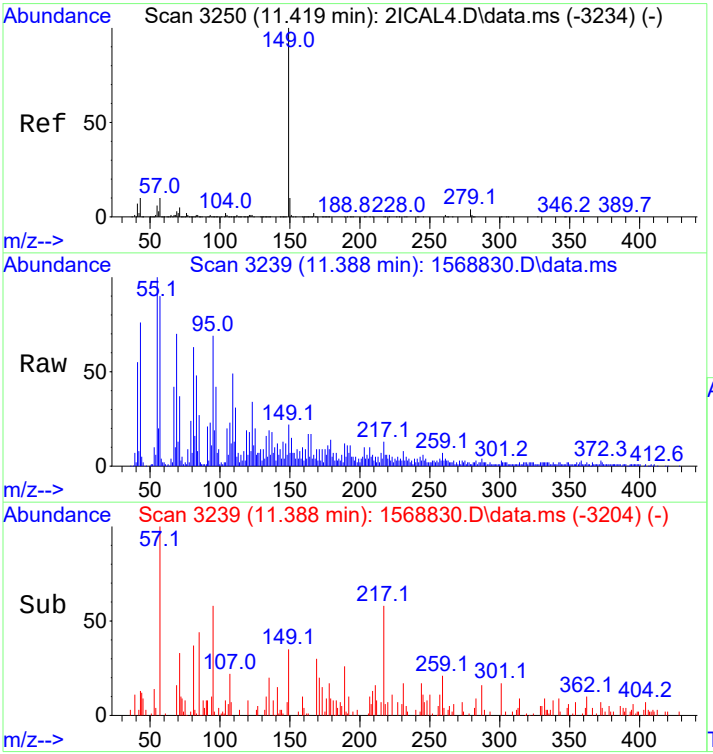



#84
bis2Ethlhxlph
Concen: 0.29 ug/mL
RT: 10.740 min Scan# 3011
Delta R.T. 0.000 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:149 Resp: 7702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.6 | 0.0 | 57.9 |
| 279 | 5.5 | 0.0 | 34.9 |

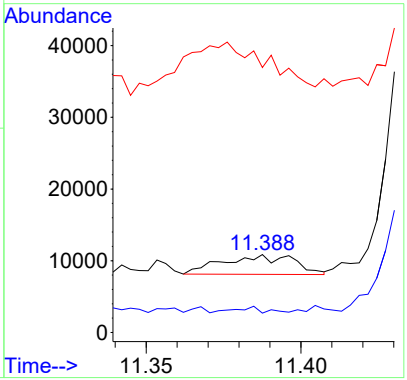


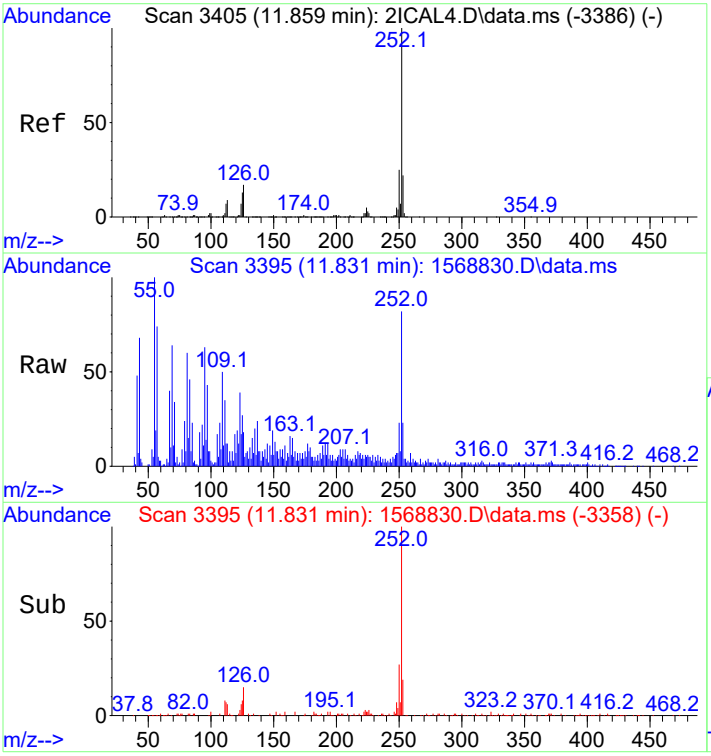




#85
Dinoctylphthl
Concen: 0.41 ug/mL
RT: 11.388 min Scan# 3239
Delta R.T. 0.000 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:149 Resp: 4310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 0.0 | 0.0 | 31.6 |
| 43 | 57.6 | 0.0 | 39.9# |

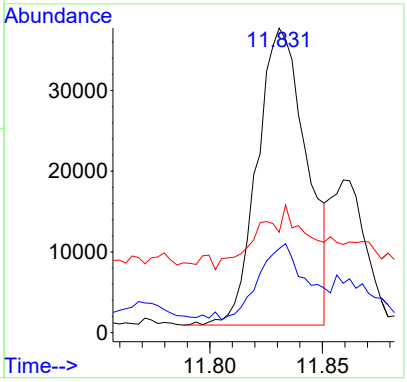


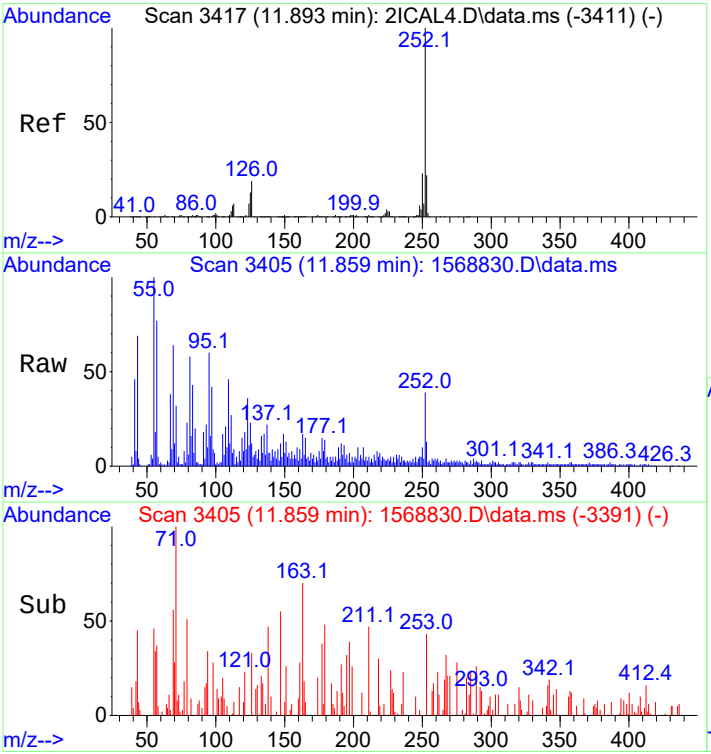



#87
B[b]fluoranth
Concen: 2.78 ug/mL
RT: 11.831 min Scan# 3395
Delta R.T. 0.006 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:252 Resp: 56181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.7 | 0.0 | 52.3 |
| 125 | 10.3 | 0.0 | 43.2 |

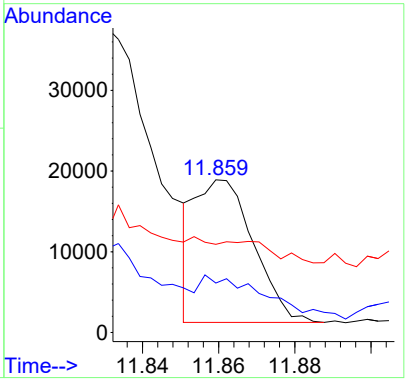


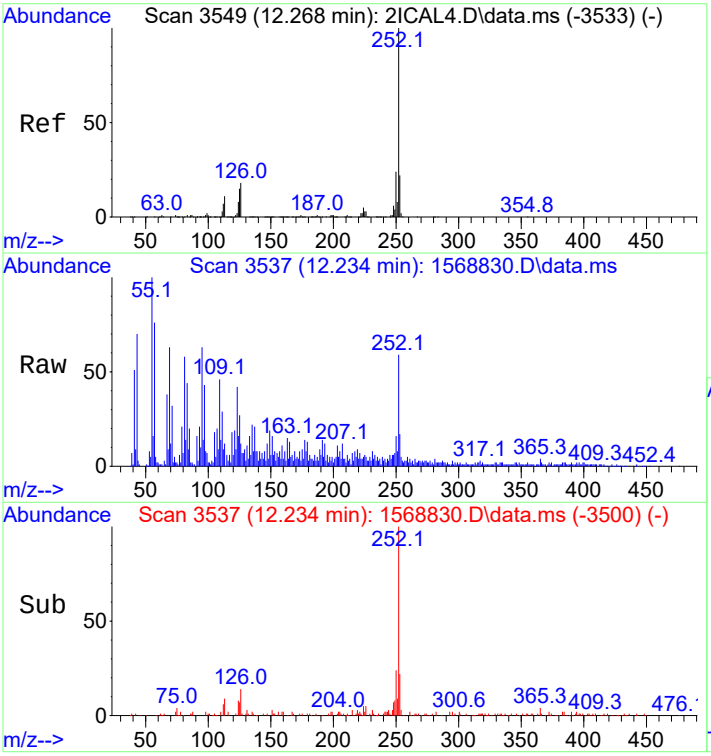




#88
B[k]fluoranth
Concen: 0.94 ug/mL
RT: 11.859 min Scan# 3405
Delta R.T. 0.000 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:252 Resp: 18954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.6 | 0.0 | 52.0 |
| 125 | 12.9 | 0.0 | 43.3 |

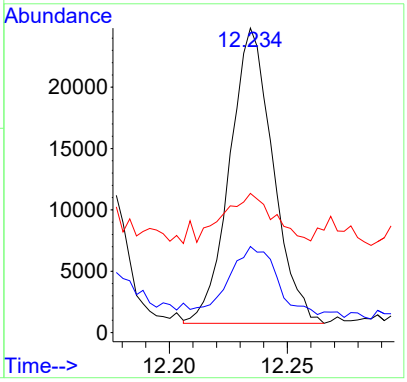


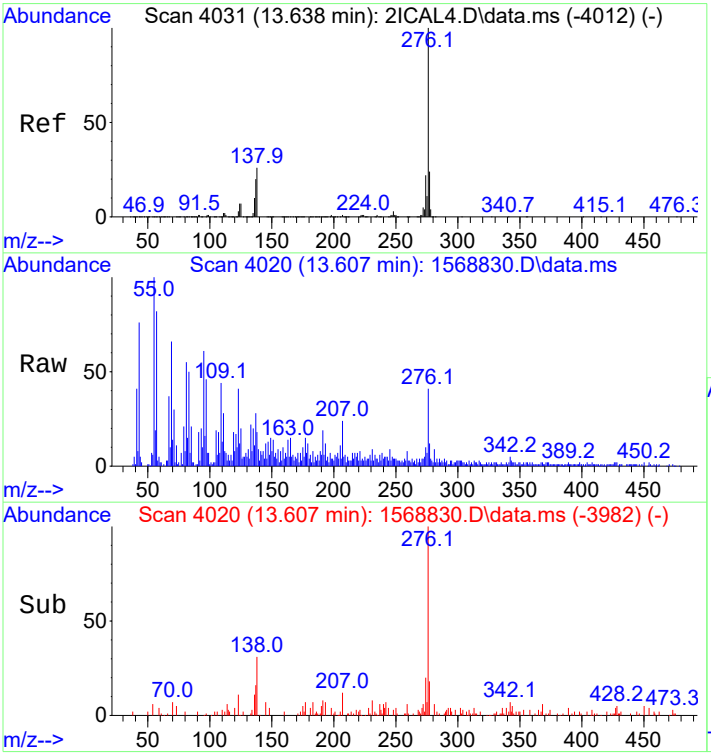



#89
Benz[a]pyrene
Concen: 1.65 ug/mL
RT: 12.234 min Scan# 3537
Delta R.T. 0.006 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:252 Resp: 30720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 0.0 | 52.3 |
| 125 | 17.0 | 0.0 | 45.1 |

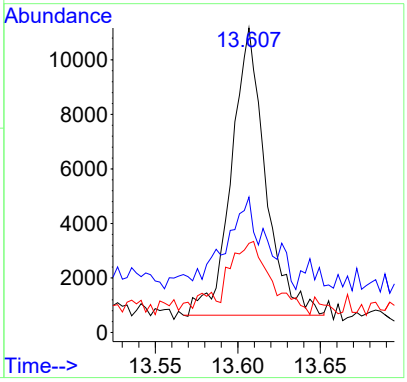


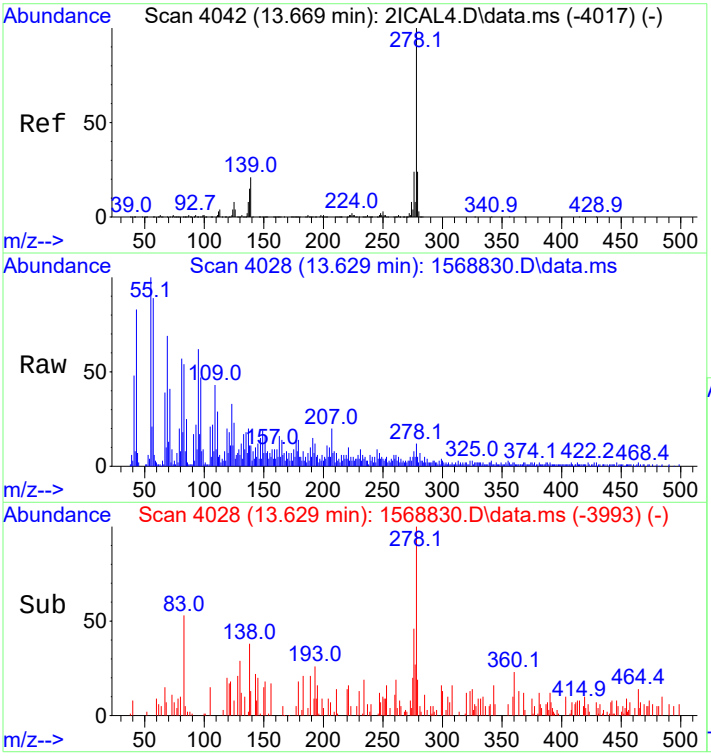




#90
Indeno-pyrene
Concen: 0.74 ug/mL
RT: 13.607 min Scan# 4020
Delta R.T. 0.009 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:276 Resp: 15120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 30.9 | 0.0 | 55.5 |
| 277 | 21.5 | 0.0 | 54.0 |

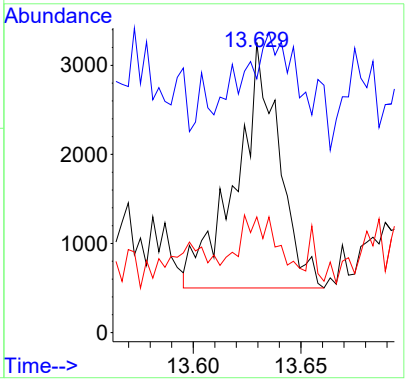


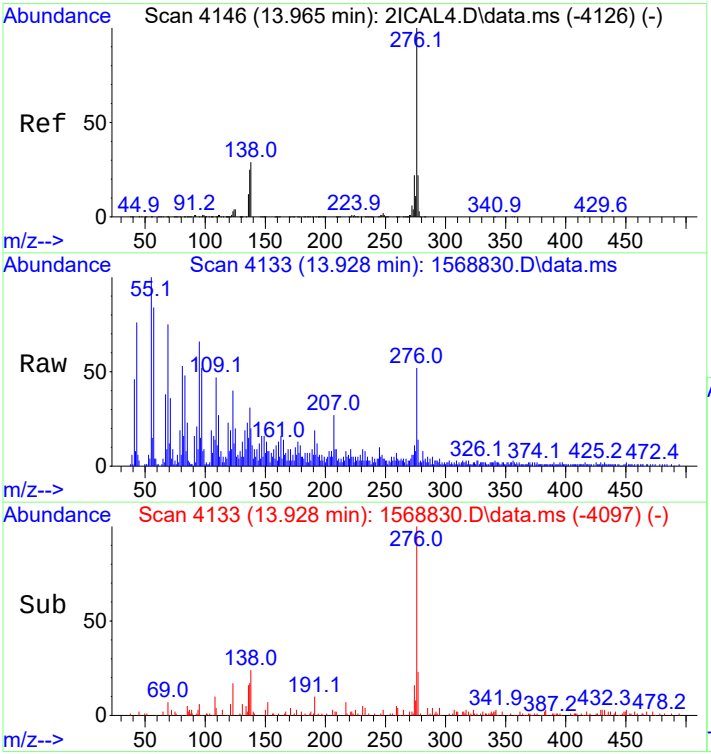



#91
Dib[ah]anthr
Concen: 0.23 ug/mL
RT: 13.629 min Scan# 4028
Delta R.T. 0.000 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:278 Resp: 3847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 2.6 | 0.0 | 50.9 |
| 279 | 26.2 | 0.0 | 54.4 |

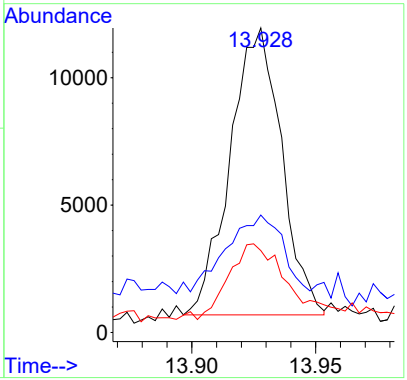



#92
B[ghi]perylen
Concen: 1.01 ug/mL
RT: 13.928 min Scan# 4133
Delta R.T. 0.003 min
Lab File: 1568830.D
Acq: 10 Apr 2025 19:38

Tgt Ion:276 Resp: 16233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.5 | 0.0 | 59.0 |
| 277 | 22.5 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568844.D Vial: 30
Acq On : 10 Apr 2025 20:01 Operator: ALD
Sample : 290730,1568844, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 20:17:43 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.329 | 152 | 171583 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.020 | 136 | 851465 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 478940 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.853 | 188 | 706092 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.745 | 240 | 558544 | 20.00 | ug/mL | 0.01 |
| 86) Perylene-d12 | 12.311 | 264 | 356927 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.107 | 112 | 311623 | 75.43 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 75.43% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 410438 | 82.66 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 82.66% | | | |
| 22) SURRNitrbenzened5 | 5.011 | 82 | 179850 | 77.52 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 77.52% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 479263 | 83.88 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 83.88% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 119487 | 93.20 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 93.20% | | | |
| 78) SURRTerphenyl-d14 | 9.924 | 244 | 555919 | 102.07 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 102.07% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.266 | 74 | 607 | 0.0914 | ug/mL# | 1 |
| 3) Pyridine | 2.610 | 79 | 7317 | 0.6164 | ug/mL | 98 |
| 14) bis2clispreth | 4.633 | 45 | 3601 | 0.1825 | ug/mL | 69 |
| 18) Hexaclethane | 5.025 | 117 | 531 | 0.1092 | ug/mL# | 13 |
| 20) 3&4Methylphenol | 4.835 | 107 | 1144 | 0.0995 | ug/mL# | 68 |
| 26) 24Dimthpheno | 5.673 | 122 | 3990 | 0.3487 | ug/mL# | 6 |
| 30) Benzoic acid | 5.673 | 122 | 5037 | 3.6348 | ug/mL | 82 |
| 31) Naphthalene | 6.045 | 128 | 63099 | 1.6068 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.082 | 127 | 419 | 0.0273 | ug/mL# | 16 |
| 37) 2Methylnaphth | 6.838 | 142 | 19230 | 0.8102 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.935 | 142 | 17379 | 0.7080 | ug/mL | 99 |
| 46) 2Nitroaniline | 7.435 | 65 | 2547 | 0.6134 | ug/mL# | 10 |
| 47) Acnaphthylene | 7.674 | 152 | 51819 | 1.3369 | ug/mL | 98 |
| 50) Acenaphthene | 7.824 | 154 | 209994 | 9.1157 | ug/mL | 99 |
| 53) Dibenzofuran | 7.966 | 168 | 125657 | 3.7772 | ug/mL | 94 |
| 54) 24Dinitrotolu | 7.966 | 165 | 637 | 0.0757 | ug/mL# | 1 |
| 55) 4-Nitrophenol | 7.963 | 65 | 695 | 1.3983 | ug/mL# | 1 |
| 58) Fluorene | 8.236 | 166 | 164236 | 6.4581 | ug/mL | 99 |
| 60) Diethylphthal | 8.159 | 149 | 1326 | 0.0471 | ug/mL | 86 |
| 61) 4Nitroaniline | 8.236 | 138 | 2158 | 0.6801 | ug/mL# | 35 |
| 65) Ntrsdiphlam&Diphlam | 8.355 | 169 | 833 | 0.0458 | ug/mL# | 45 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 34323 | 5.2873 | ug/mL# | 1 |
| 70) Phenanthrene | 8.873 | 178 | 2690235 | 78.2035 | ug/mL | 96 |
| 71) Anthracene | 8.901 | 178 | 572926 | 16.3694 | ug/mL | 94 |
| 72) Carbazole | 9.003 | 167 | 536835 | 18.0127 | ug/mL | 99 |
| 73) Dinbtylphthal | 9.228 | 149 | 5168 | 0.1240 | ug/mL | 54 |
| 74) Fluoranthene | 9.677 | 202 | 4523641 | 124.5314 | ug/mL | 94 |
| 76) Benzidine | 9.796 | 184 | 1002 | Below Cal | | 59 |
| 77) Pyrene | 9.833 | 202 | 3648290 | 102.8334 | ug/mL | 95 |
| 81) 33Diclbnzidin | 10.776 | 252 | 8409 | 0.9093 | ug/mL# | 15 |
| 82) B[a]anthracen | 10.737 | 228 | 2043423 | 60.7662 | ug/mL | 98 |
| 83) Chrysene | 10.771 | 228 | 1916534 | 60.7697 | ug/mL | 95 |
| 84) bis2Ethlhxlph | 10.739 | 149 | 23748 | 0.9279 | ug/mL | 93 |
| 85) Dinoctylphthl | 11.436 | 149 | 3093 | 0.3856 | ug/mL | 49 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568844.D Vial: 30
Acq On : 10 Apr 2025 20:01 Operator: ALD
Sample : 290730,1568844, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 20:17:43 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

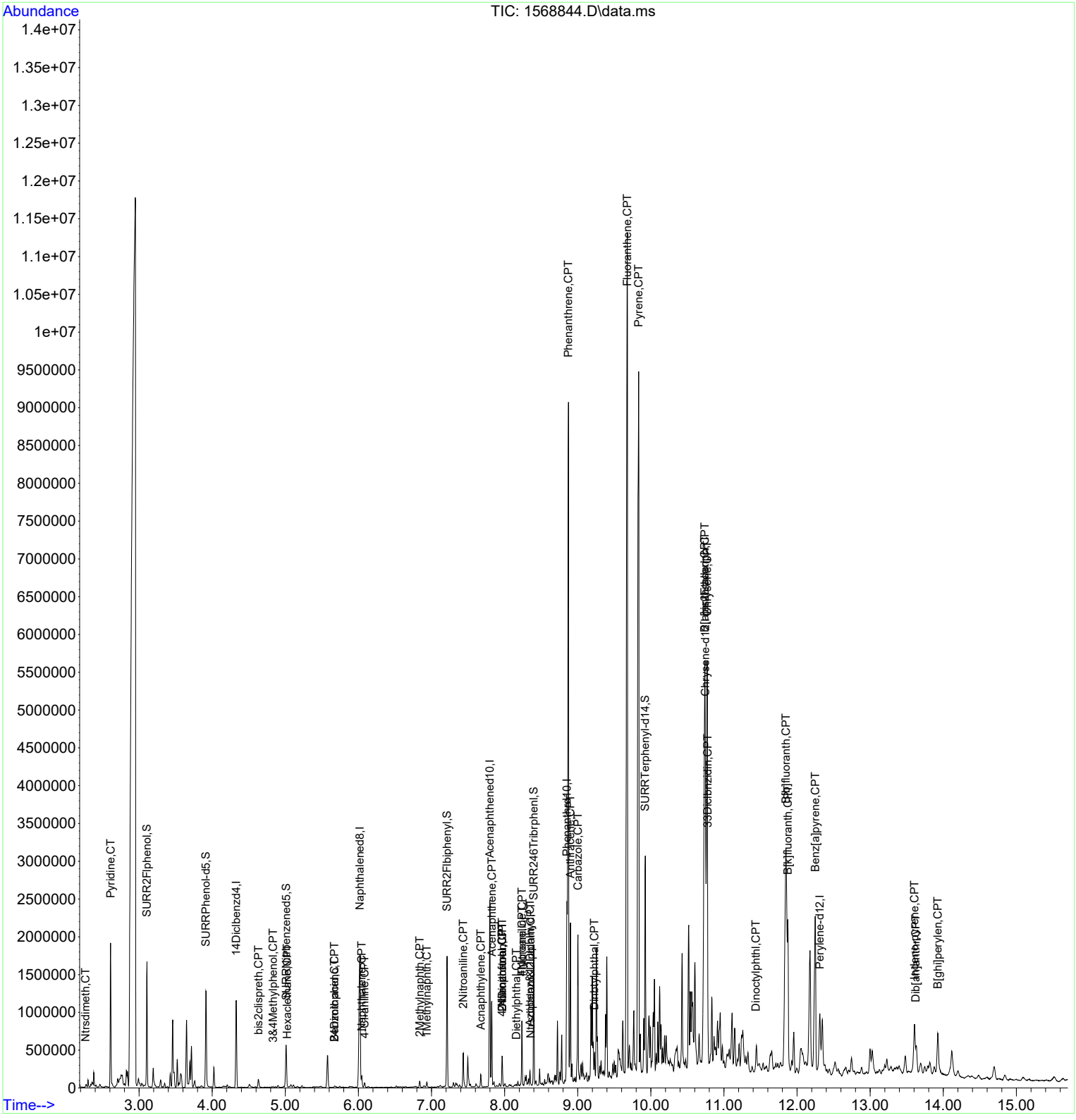
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 87) B[b]fluoranth | 11.848 | 252 | 2035560 | 107.6614 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.873 | 252 | 648939 | 34.2570 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.248 | 252 | 1055460 | 60.7014 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.606 | 276 | 350301 | 18.2149 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.624 | 278 | 83109 | 5.2867 | ug/mL | 93 |
| 92) B[ghi]perylen | 13.925 | 276 | 251804 | 16.7118 | ug/mL | 97 |

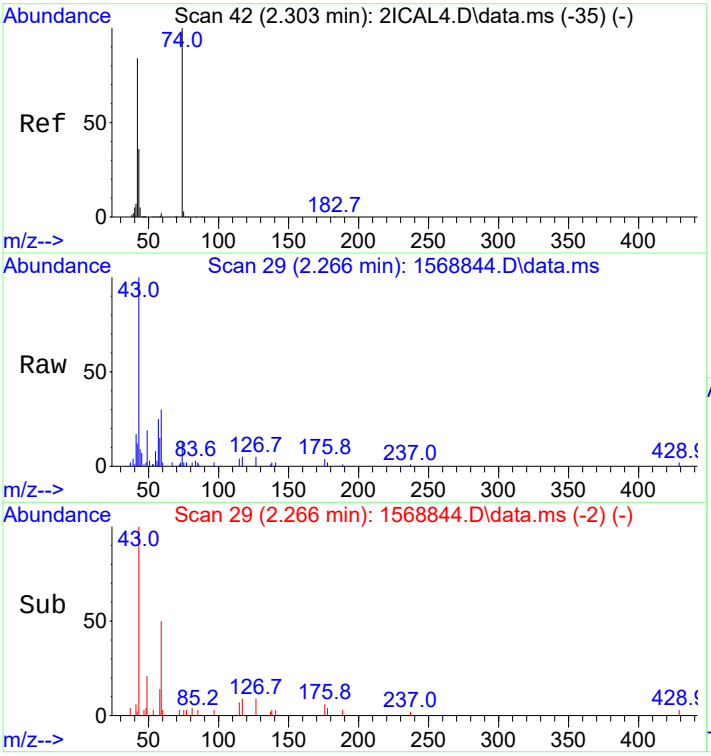
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568844.D Vial: 30
Acq On : 10 Apr 2025 20:01 Operator: ALD
Sample : 290730,1568844, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 20:17:43 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

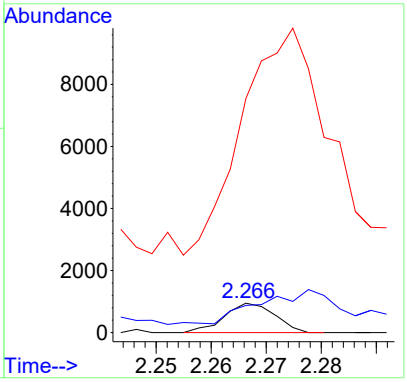


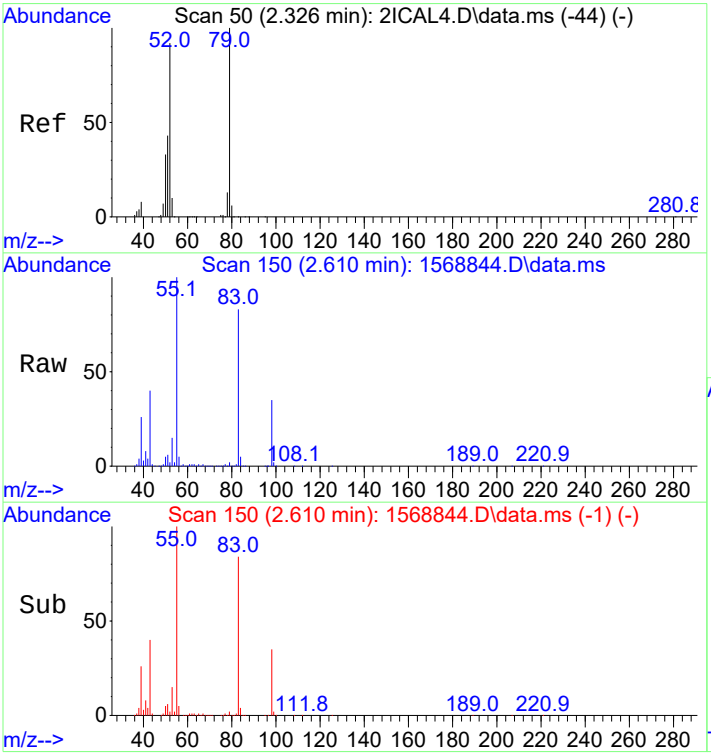



#2
Ntrsdimeth
Concen: 0.09 ug/mL
RT: 2.266 min Scan# 29
Delta R.T. -0.023 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion: 74 Resp: 607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 58.4 | 53.9 | 113.9 |
| 43 | 532.5 | 6.0 | 66.0# |

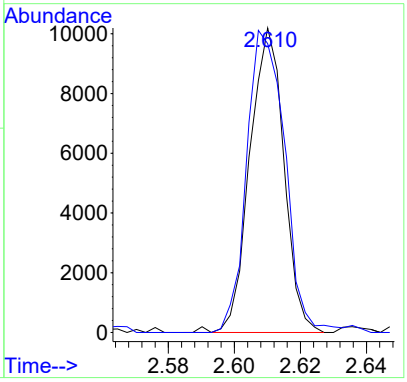


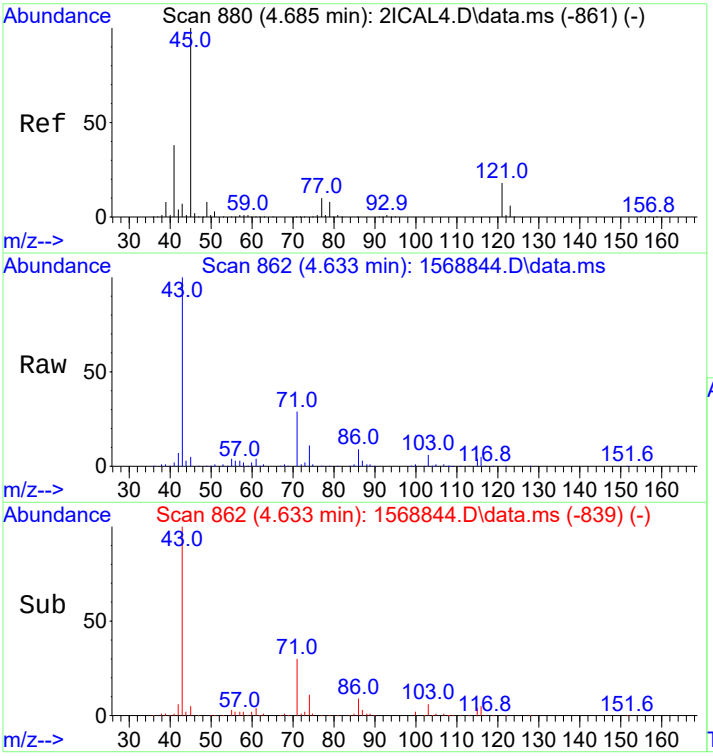




#3
Pyridine
Concen: 0.62 ug/mL
RT: 2.610 min Scan# 150
Delta R.T. 0.301 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion: 79 Resp: 7317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 94.9 | 62.5 | 122.5 |

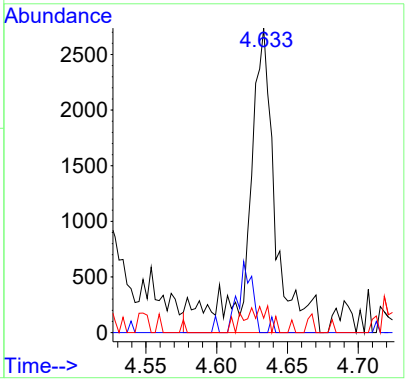


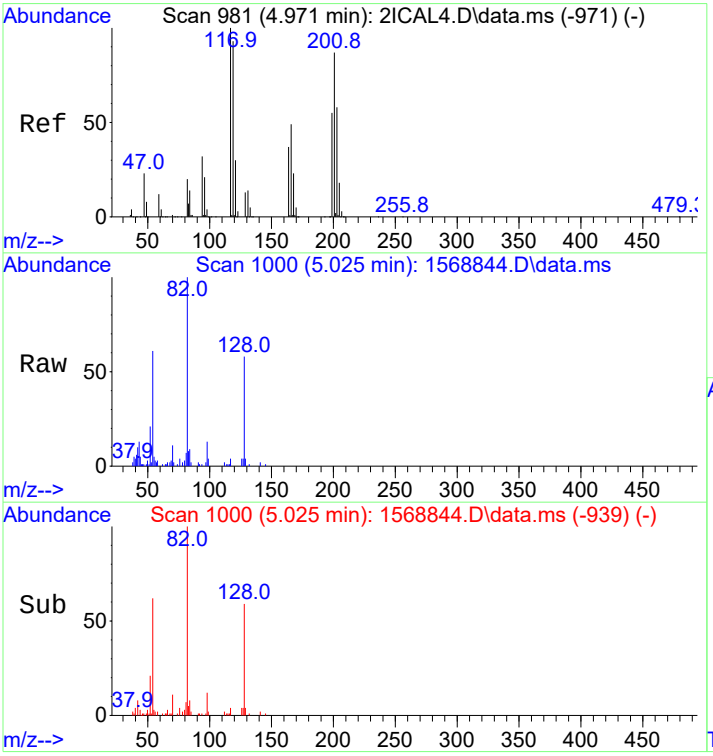



#14
bis2clispreth
Concen: 0.18 ug/mL
RT: 4.633 min Scan# 862
Delta R.T. -0.034 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion: 45 Resp: 3601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 0.0 | 0.0 | 47.5 |
| 77 | 4.7 | 0.0 | 40.1 |

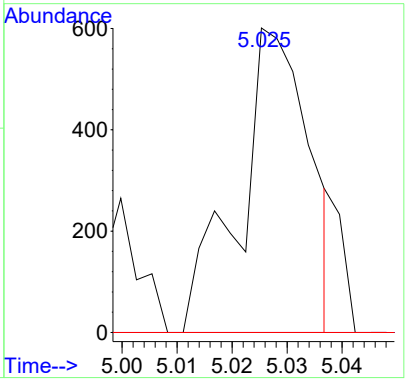


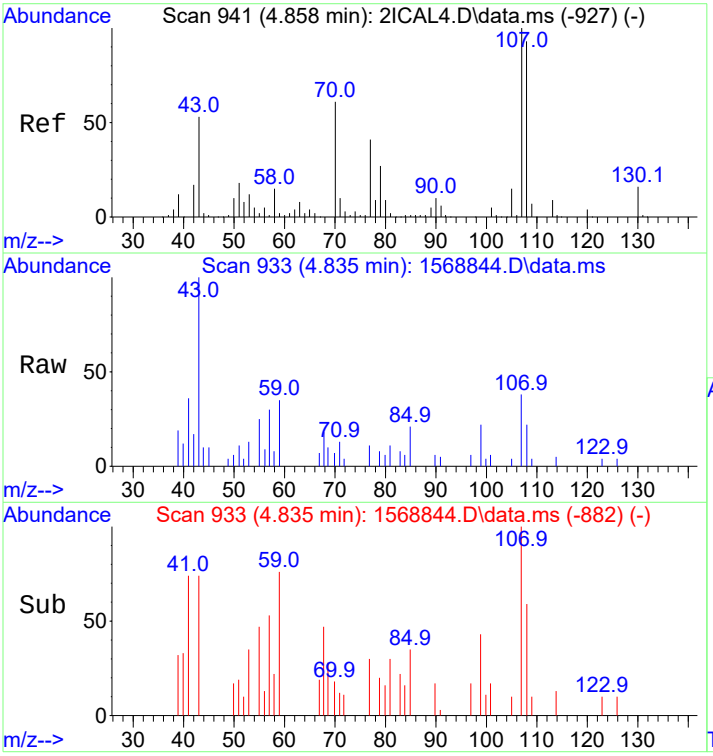




#18
Hexaclethane
Concen: 0.11 ug/mL
RT: 5.025 min Scan# 1000
Delta R.T. 0.074 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:117 Resp: 531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 0.0 | 56.5 | 116.5# |
| 199 | 0.0 | 25.0 | 85.0# |

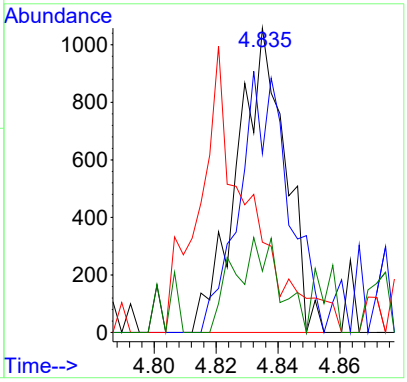


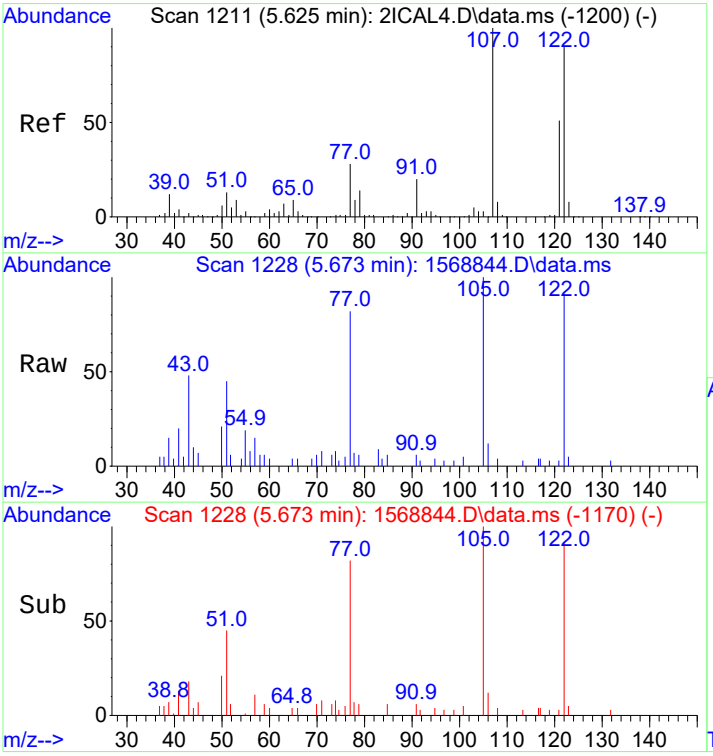



#20
3&4Methylphenol
Concen: 0.10 ug/mL
RT: 4.835 min Scan# 933
Delta R.T. -0.006 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:107 Resp: 1144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 58.8 | 63.3 | 123.3# |
| 77 | 19.2 | 11.4 | 71.4 |
| 79 | 20.1 | 0.0 | 56.9 |

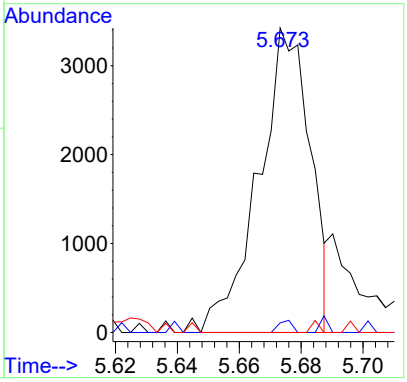


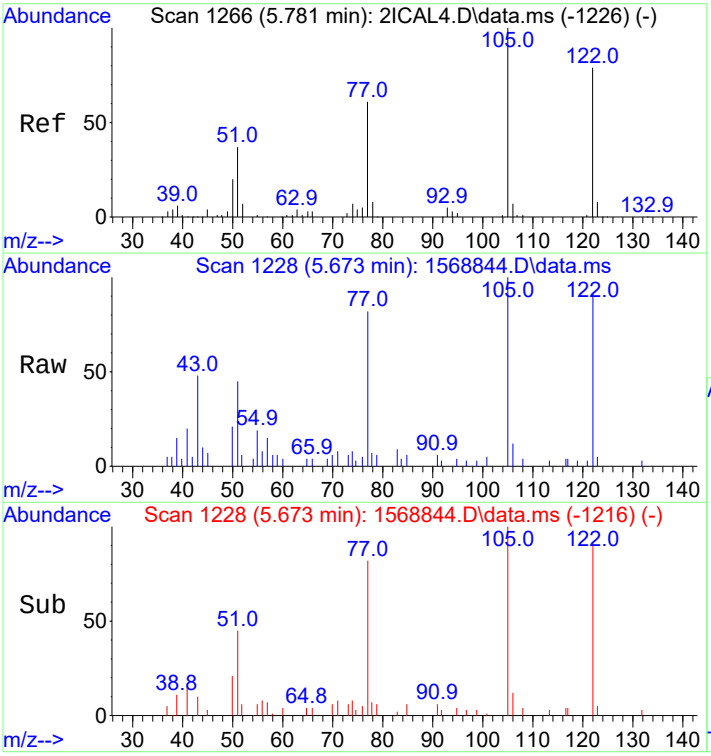




#26
24Dimthpheno
Concen: 0.35 ug/mL
RT: 5.673 min Scan# 1228
Delta R.T. 0.065 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:122 Resp: 3990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 3.1 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

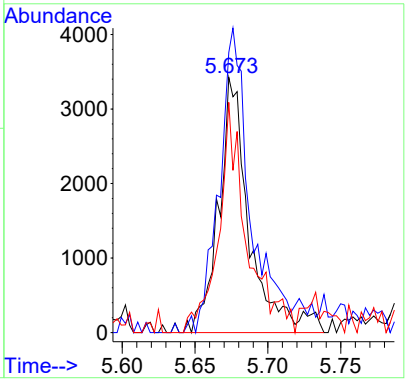


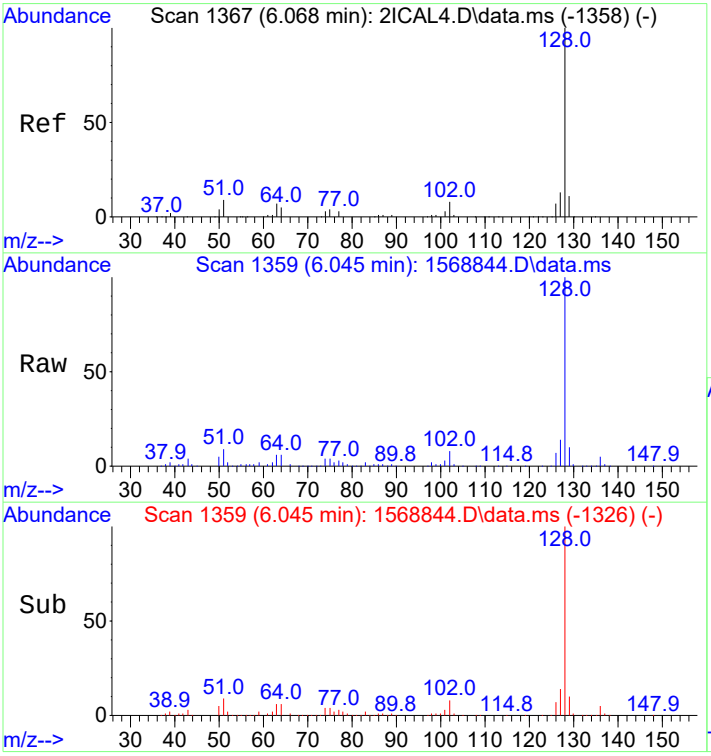



#30
Benzoic acid
Concen: 3.63 ug/mL
RT: 5.673 min Scan# 1228
Delta R.T. -0.097 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:122 Resp: 5037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 109.8 | 96.0 | 156.0 |
| 77 | 97.5 | 46.6 | 106.6 |

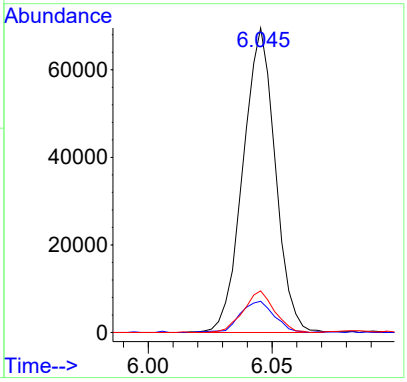


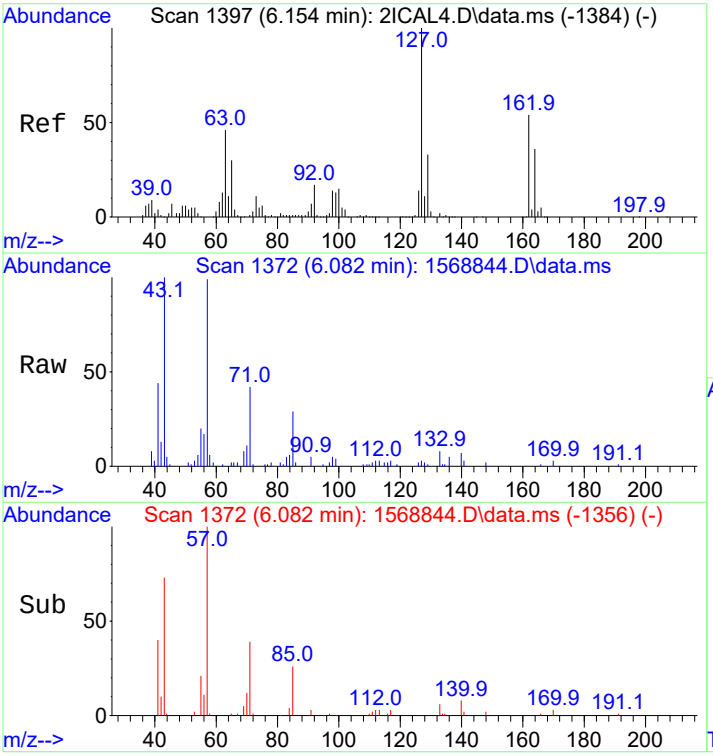




#31
Naphthalene
Concen: 1.61 ug/mL
RT: 6.045 min Scan# 1359
Delta R.T. -0.006 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:128 Resp: 63099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.2 | 0.0 | 41.0 |
| 127 | 13.5 | 0.0 | 43.3 |

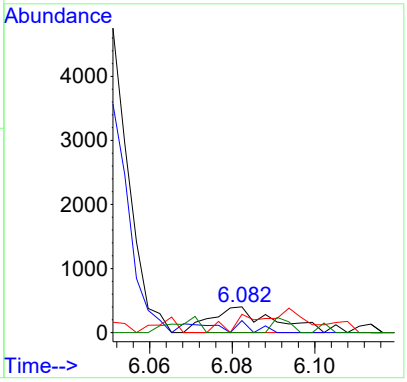


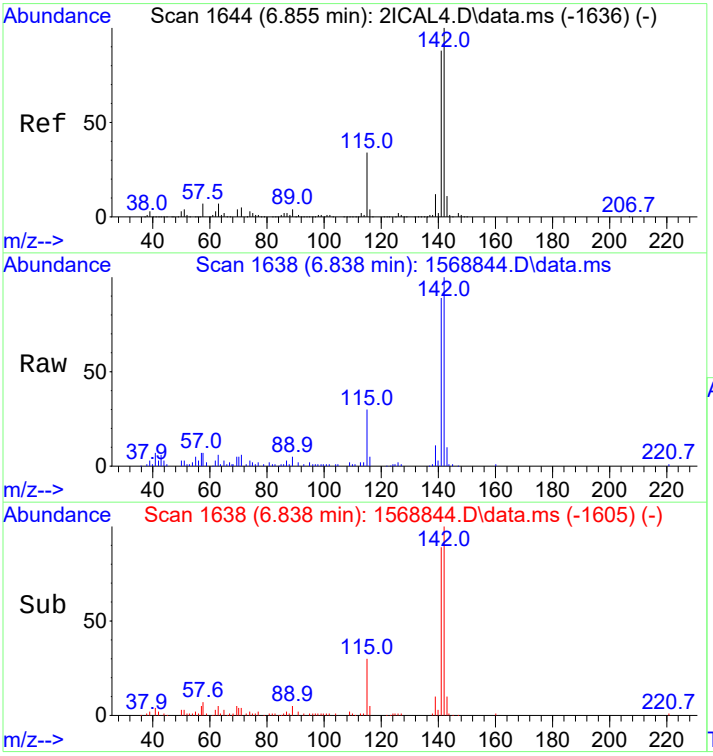



#32
4-Cl-aniline
Concen: 0.03 ug/mL
RT: 6.082 min Scan# 1372
Delta R.T. -0.054 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:127 Resp: 419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 46.6 | 3.1 | 63.1 |
| 65 | 125.9 | 0.2 | 60.2# |
| 92 | 0.0 | 0.0 | 46.7 |

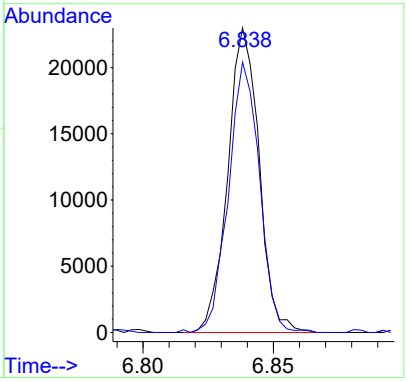


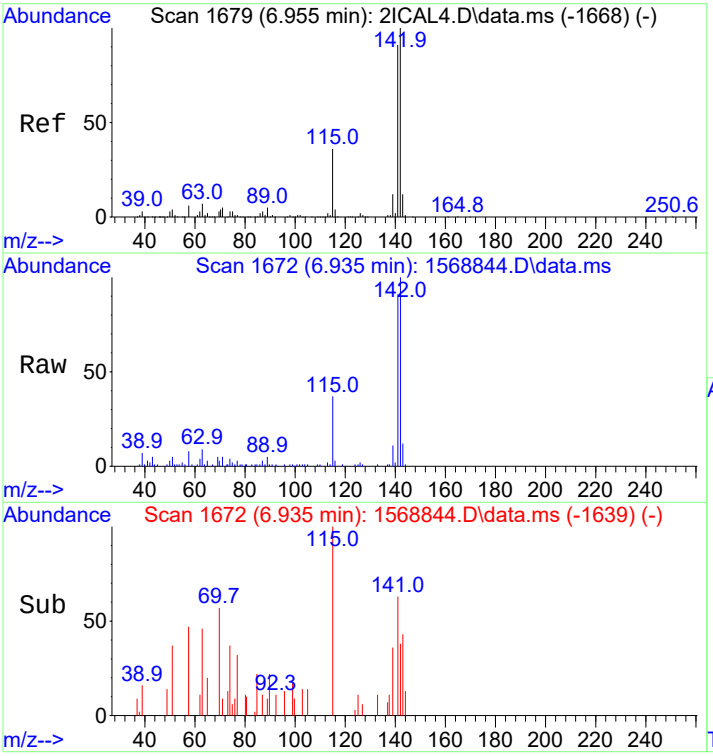




#37
2Methylnaphth
Concen: 0.81 ug/mL
RT: 6.838 min Scan# 1638
Delta R.T. -0.006 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:142 Resp: 19230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.8 | 58.0 | 118.0 |

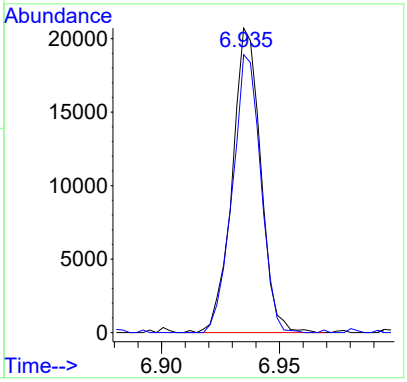


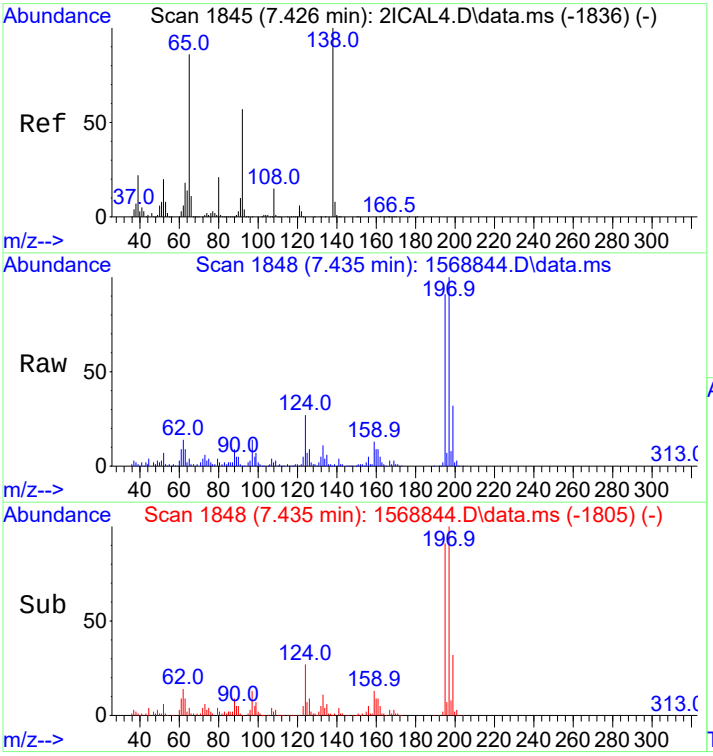



#38
1Methylnaphth
Concen: 0.71 ug/mL
RT: 6.935 min Scan# 1672
Delta R.T. -0.006 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:142 Resp: 17379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.3 | 60.7 | 120.7 |

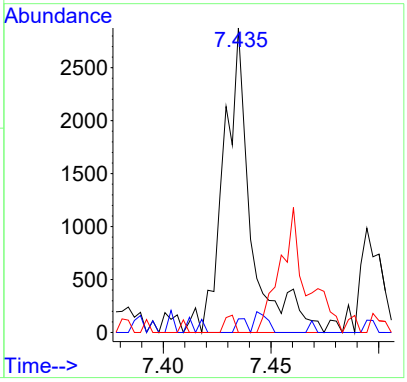


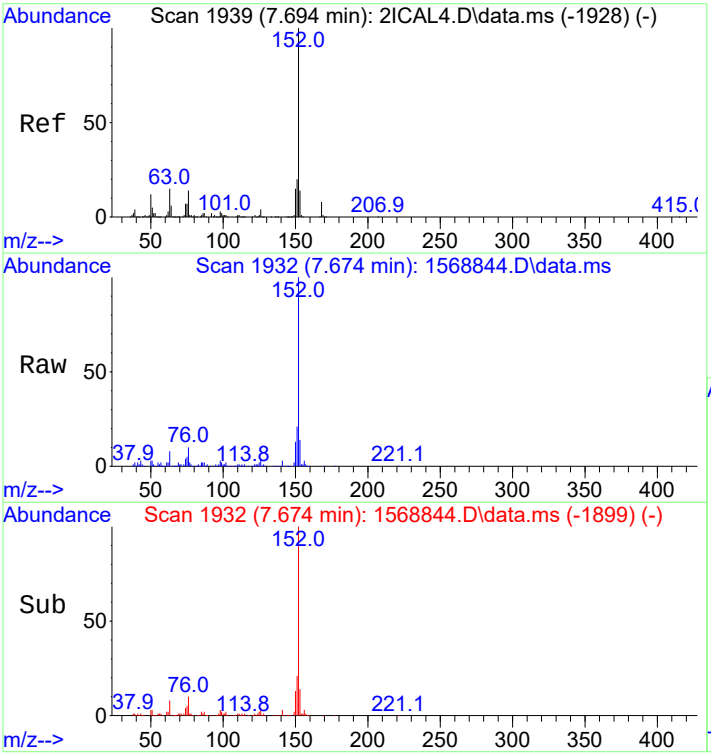




#46
2Nitroaniline
Concen: 0.61 ug/mL
RT: 7.435 min Scan# 1848
Delta R.T. 0.023 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion: 65 Resp: 2547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 4.5 | 36.2 | 96.2# |
| 138 | 10.6 | 85.6 | 145.6# |

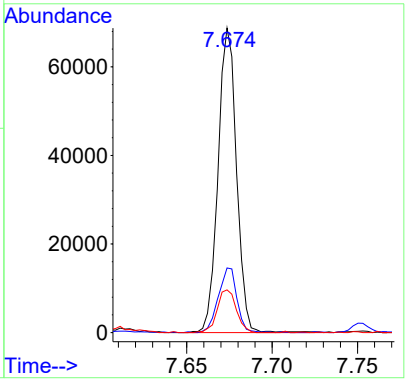


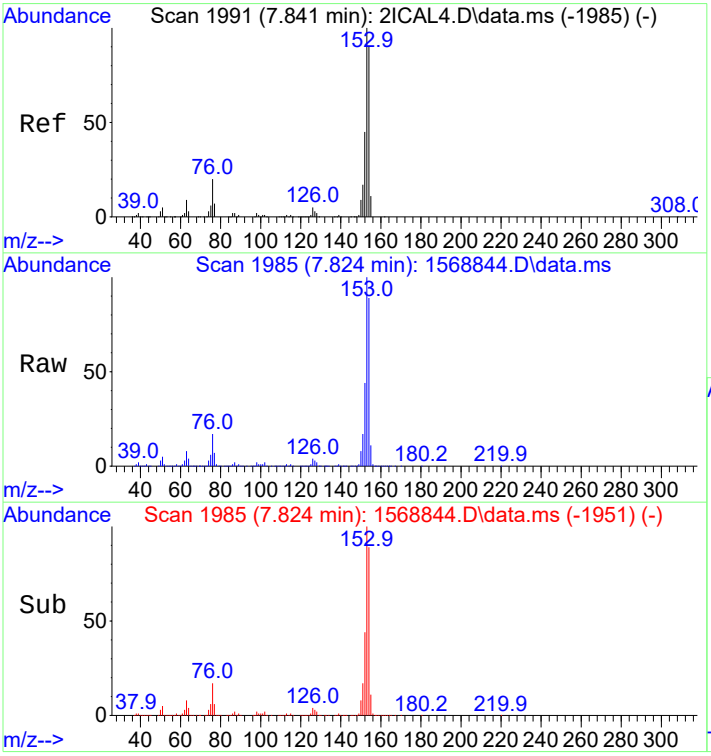



#47
Acnaphthylene
Concen: 1.34 ug/mL
RT: 7.674 min Scan# 1932
Delta R.T. -0.006 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:152 Resp: 51819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.2 | 0.0 | 50.3 |
| 153 | 13.9 | 0.0 | 44.4 |

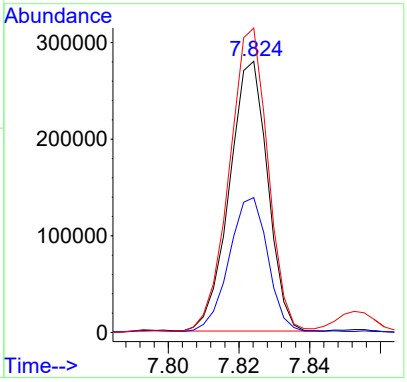


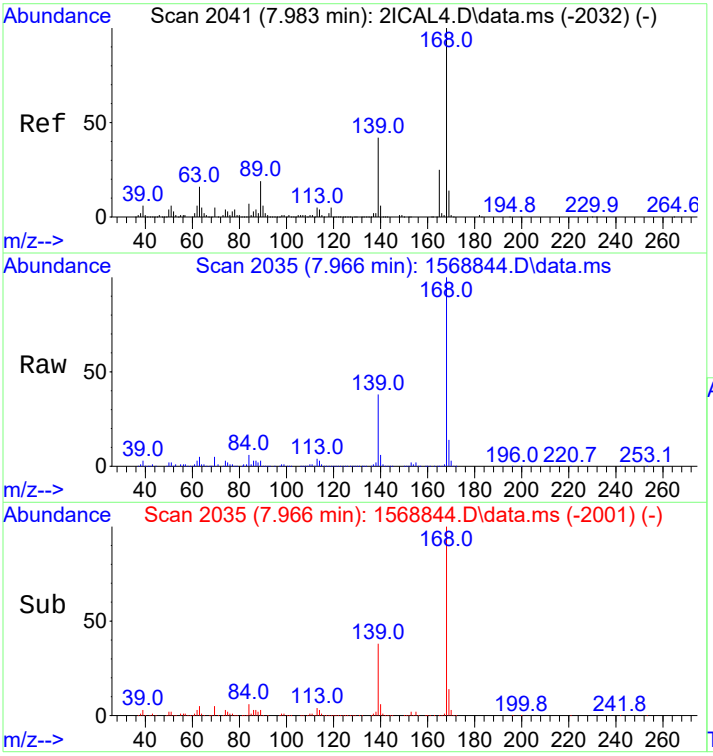




#50
Acenaphthene
Concen: 9.12 ug/mL
RT: 7.824 min Scan# 1985
Delta R.T. -0.003 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:154 Resp: 209994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 49.7 | 20.0 | 80.0 |
| 153 | 112.3 | 80.7 | 140.7 |

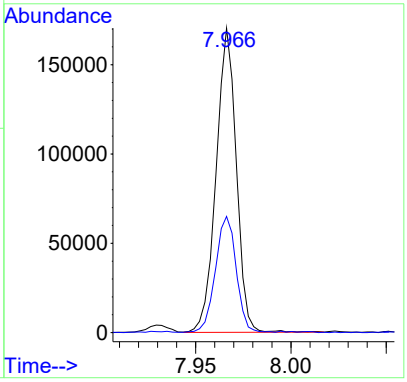


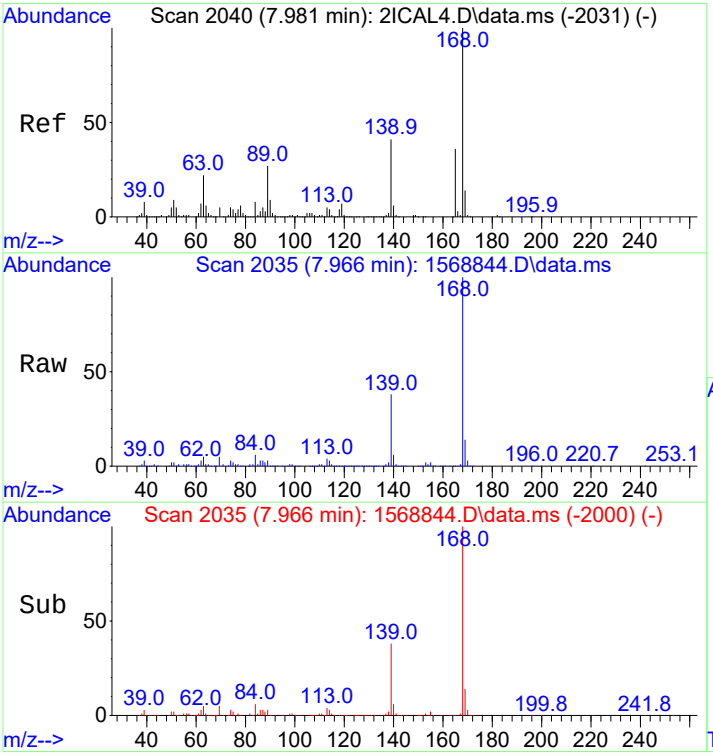



#53
Dibenzofuran
Concen: 3.78 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.003 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:168 Resp: 125657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 38.1 | 11.9 | 71.9 |

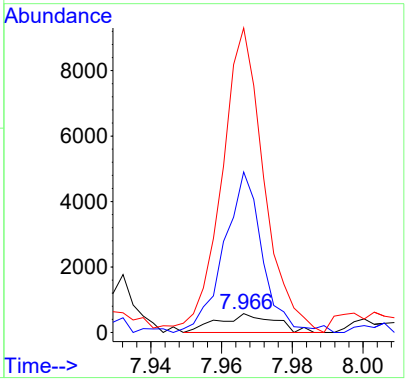


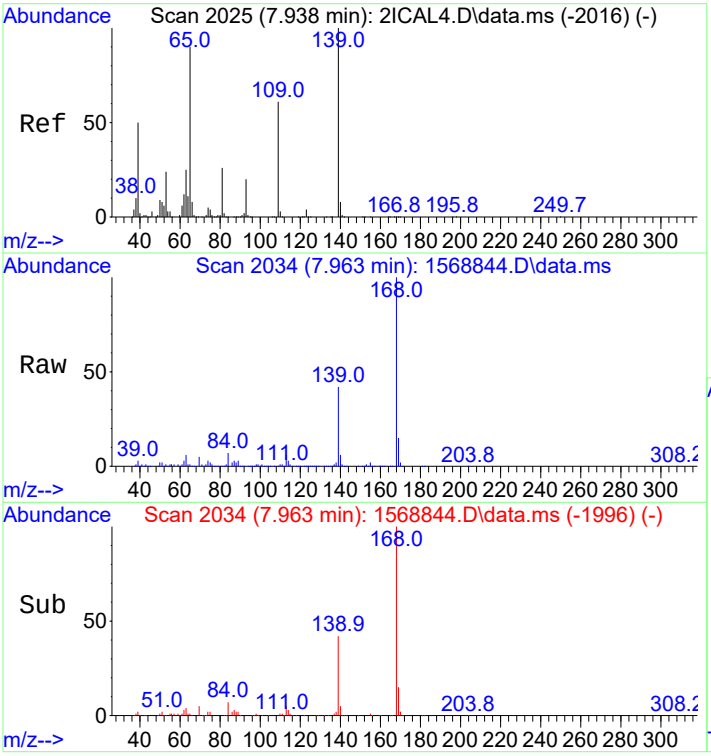




#54
24Dinitrotolu
Concen: 0.08 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.000 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:165 Resp: 637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 832.3 | 46.1 | 106.1# |
| 63 | 1614.9 | 32.6 | 92.6# |

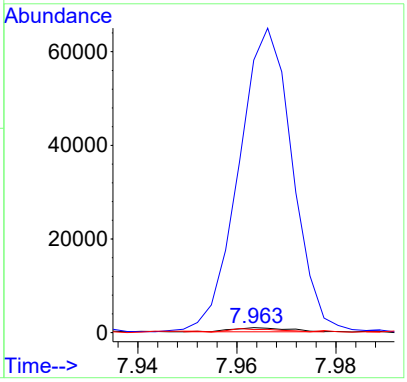


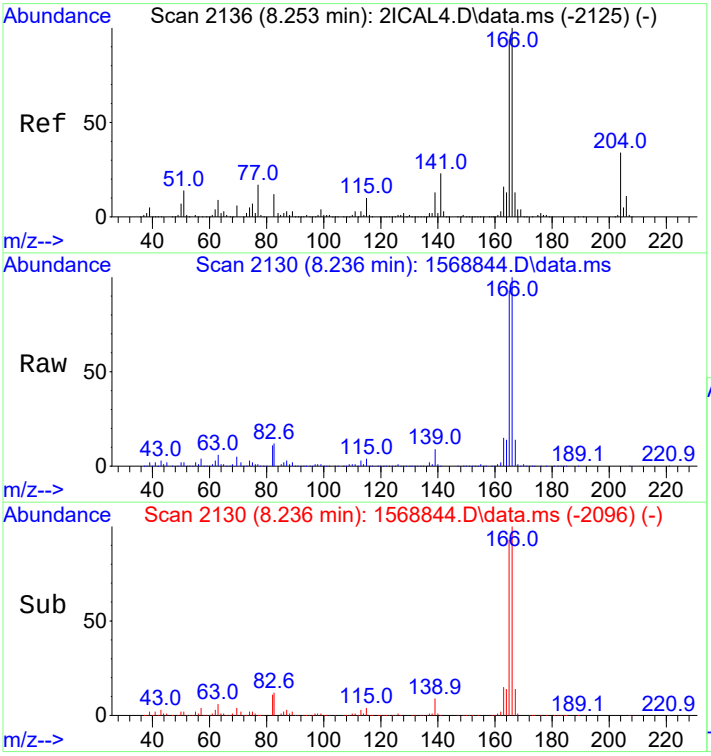



#55
4-Nitrophenol
Concen: 1.40 ug/mL
RT: 7.963 min Scan# 2034
Delta R.T. 0.043 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion: 65 Resp: 695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 5311.9 | 80.5 | 140.5# |
| 109 | 32.1 | 37.6 | 97.6# |

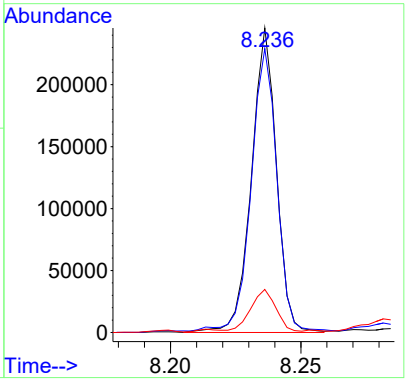


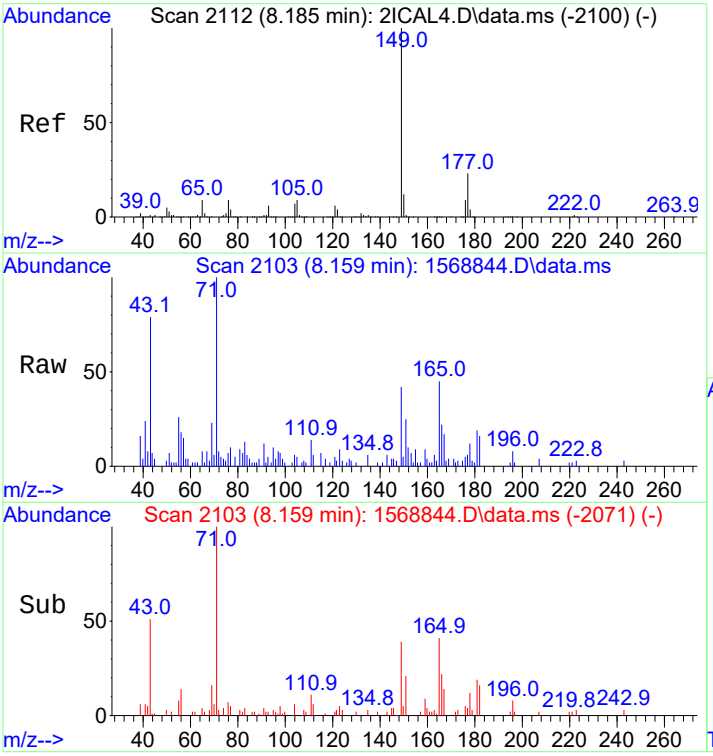




#58
Fluorene
Concen: 6.46 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:166 Resp: 164236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 92.7 | 63.6 | 123.6 |
| 167 | 14.0 | 0.0 | 43.3 |

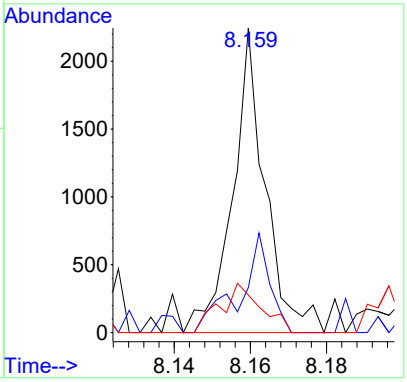


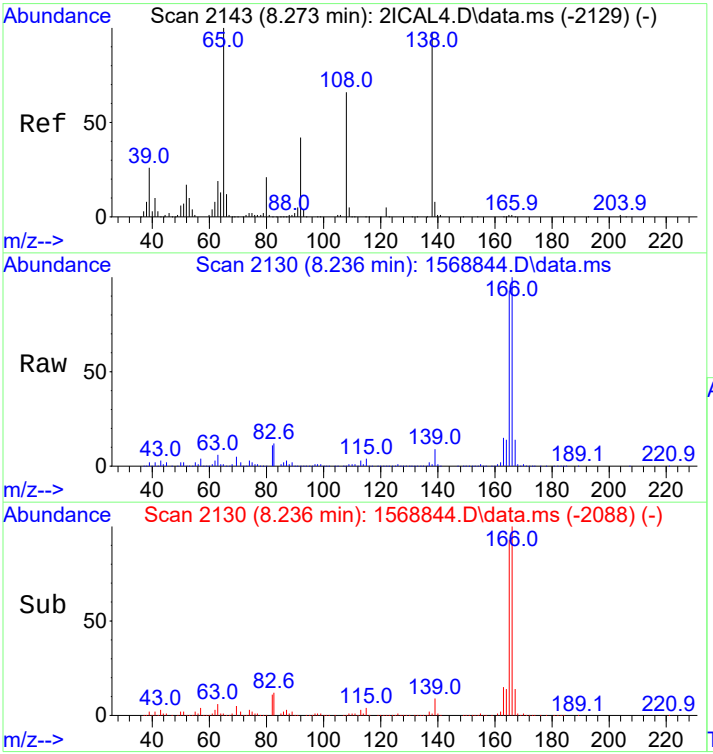



#60
Diethylphthal
Concen: 0.05 ug/mL
RT: 8.159 min Scan# 2103
Delta R.T. -0.009 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:149 Resp: 1326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 13.1 | 0.0 | 52.5 |
| 150 | 11.0 | 0.0 | 42.2 |

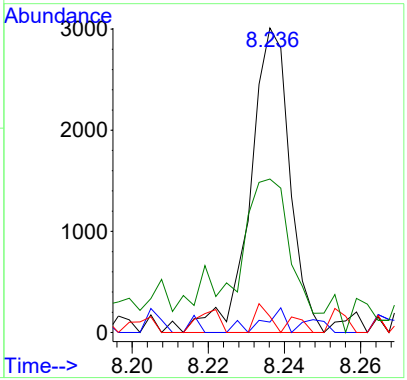


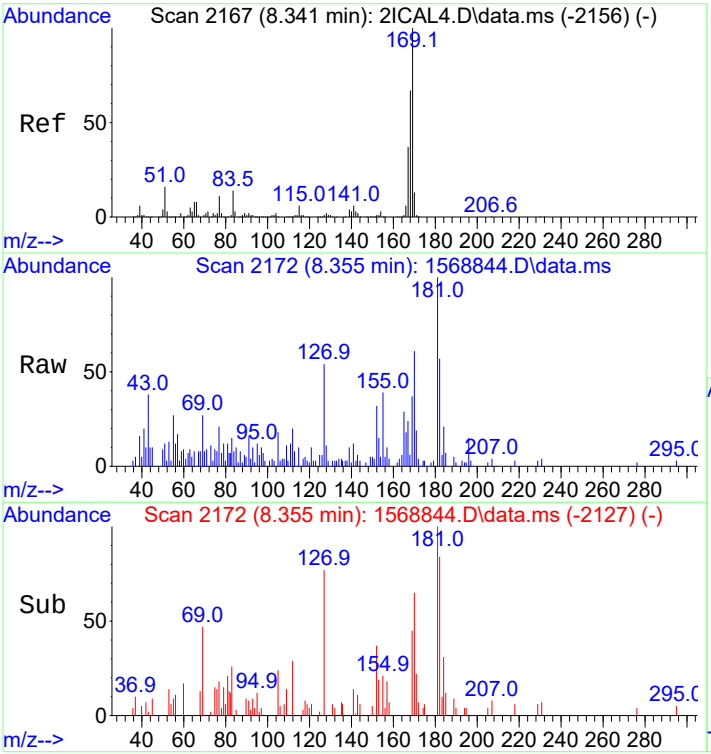




#61
4Nitroaniline
Concen: 0.68 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.020 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:138 Resp: 2158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 5.2 | 36.9 | 96.9# |
| 65 | 44.0 | 71.1 | 131.1# |

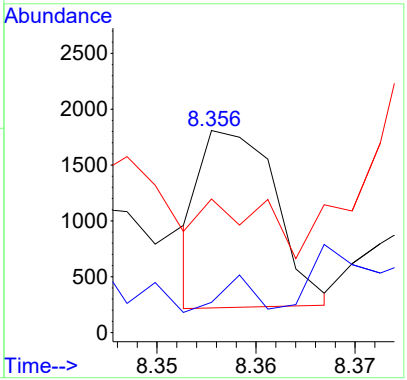


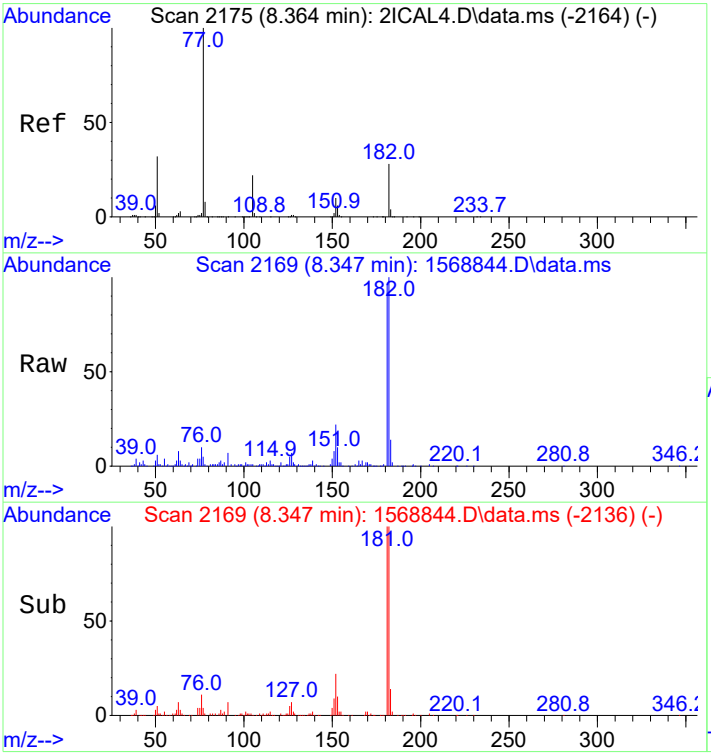



#65
Ntrsdiphlam&Diphlam
Concen: 0.05 ug/mL
RT: 8.355 min Scan# 2172
Delta R.T. 0.028 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:169 Resp: 833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 6.2 | 37.2 | 97.2# |
| 167 | 26.2 | 6.9 | 66.9 |

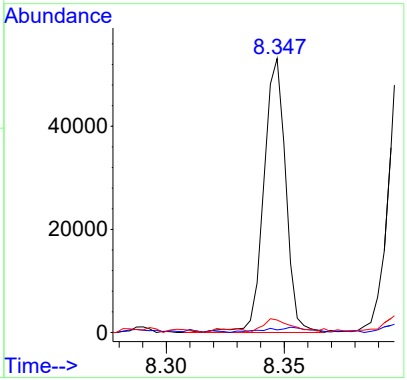


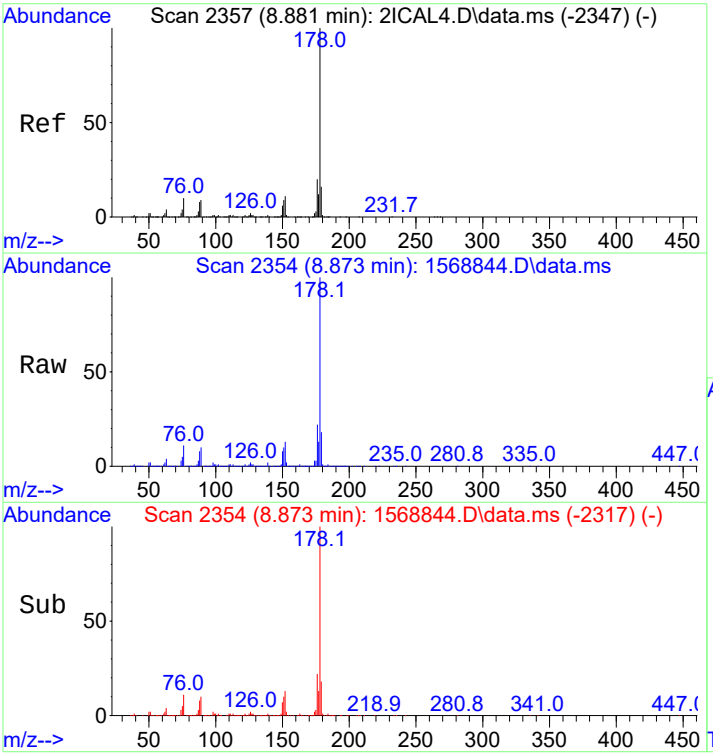




#66
Azobenz&12Diphlhyd
Concen: 5.29 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:182 Resp: 34323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.6 | 49.9 | 109.9# |
| 77 | 3.5 | 339.9 | 399.9# |

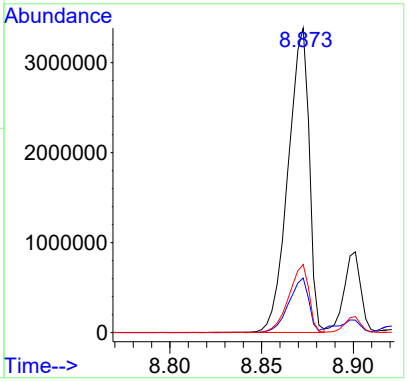


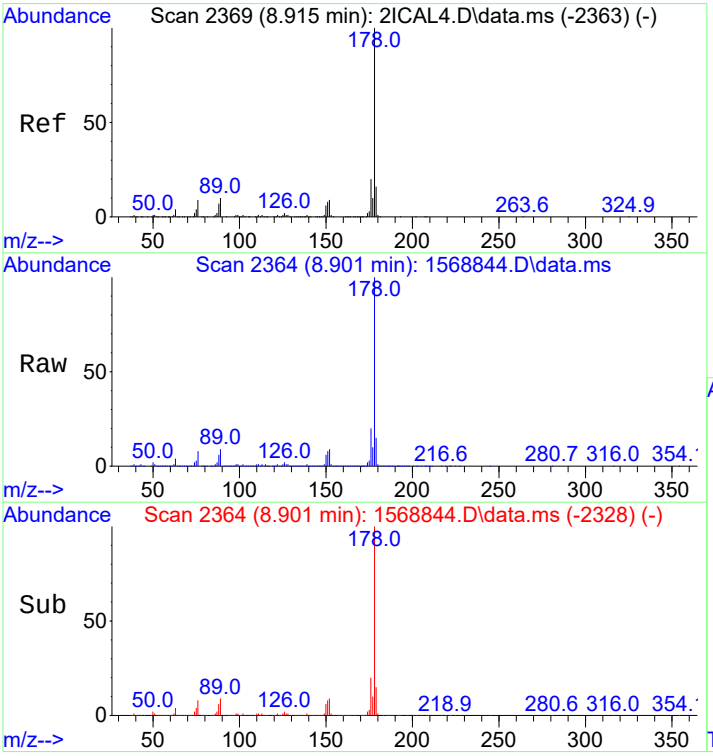



#70
Phenanthrene
Concen: 78.20 ug/mL
RT: 8.873 min Scan# 2354
Delta R.T. 0.006 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:178 Resp: 2690235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 17.9 | 0.0 | 45.9 |
| 176 | 22.4 | 0.0 | 50.4 |

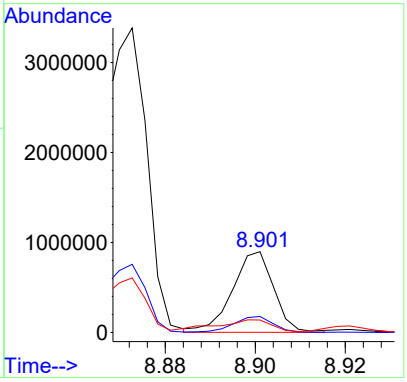


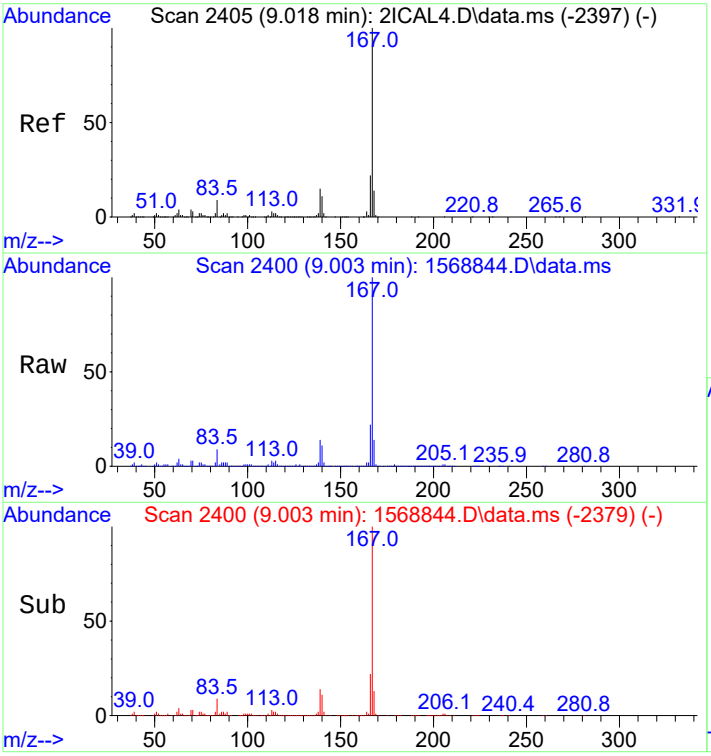




#71
Anthracene
Concen: 16.37 ug/mL
RT: 8.901 min Scan# 2364
Delta R.T. 0.003 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:178 Resp: 572926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.1 | 0.0 | 49.5 |
| 179 | 10.8 | 0.0 | 45.9 |

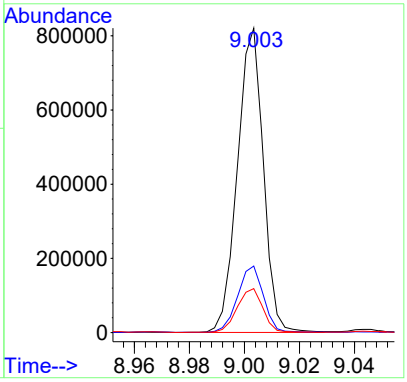


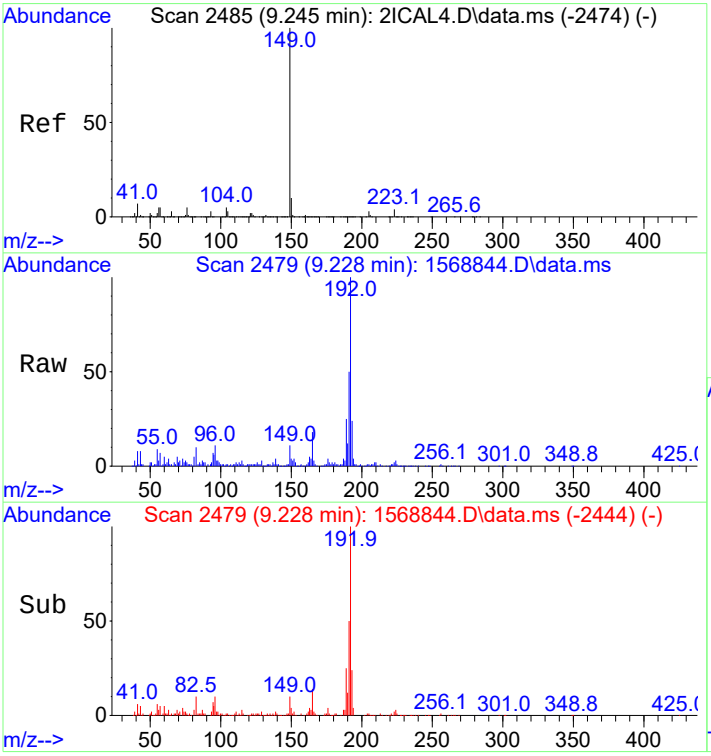



#72
Carbazole
Concen: 18.01 ug/mL
RT: 9.003 min Scan# 2400
Delta R.T. -0.000 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:167 Resp: 536835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.8 | 0.0 | 52.1 |
| 139 | 14.4 | 0.0 | 44.7 |

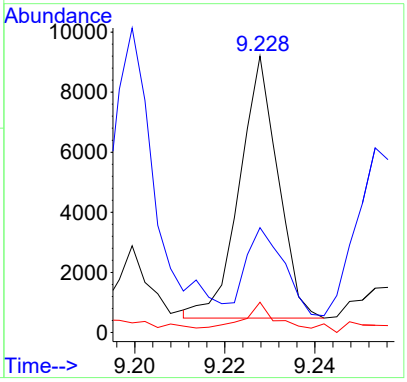


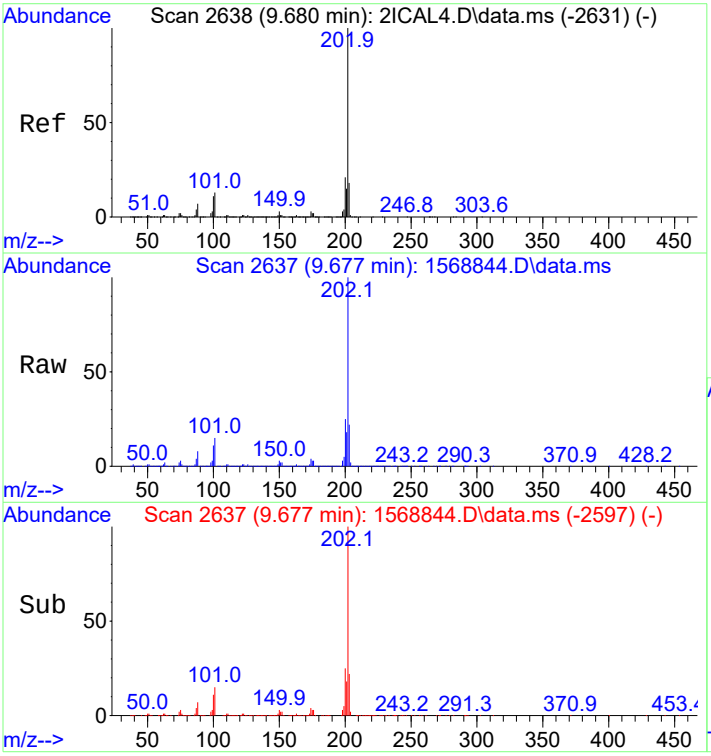




#73
Dinbtylphthal
Concen: 0.12 ug/mL
RT: 9.228 min Scan# 2479
Delta R.T. -0.000 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:149 Resp: 5168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 33.6 | 0.0 | 39.7 |
| 104 | 9.1 | 0.0 | 35.4 |

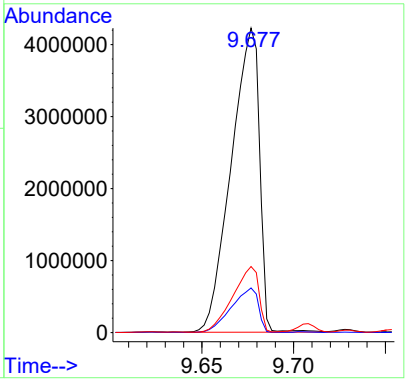


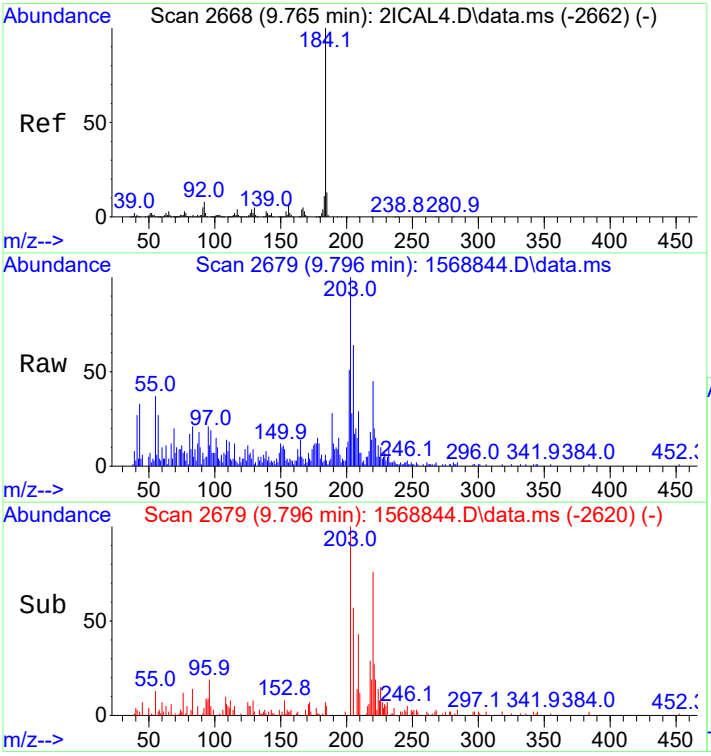



#74
Fluoranthene
Concen: 124.53 ug/mL
RT: 9.677 min Scan# 2637
Delta R.T. 0.014 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:202 Resp: 4523641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.6 | 0.0 | 43.0 |
| 203 | 21.6 | 0.0 | 48.2 |

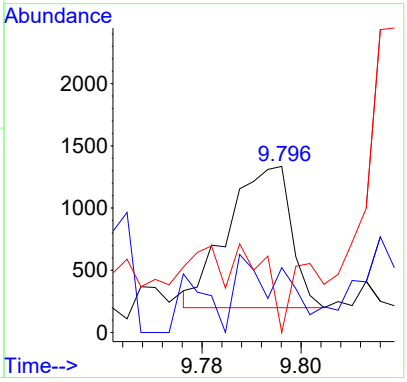


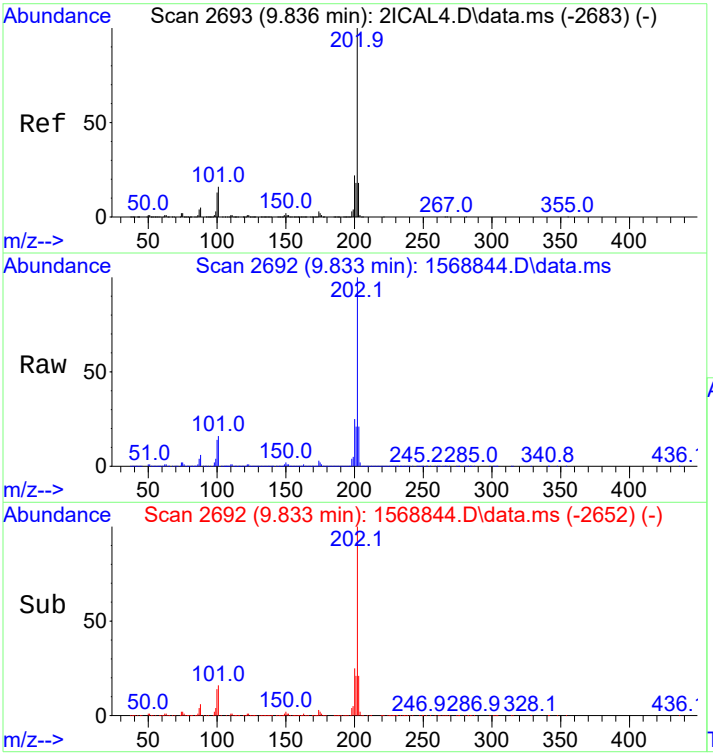




#76
Benzidine
Concen: Below Cal
RT: 9.796 min Scan# 2679
Delta R.T. 0.048 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:184 Resp: 1002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 27.7 | 0.0 | 38.2 |
| 185 | 0.0 | 0.0 | 43.3 |

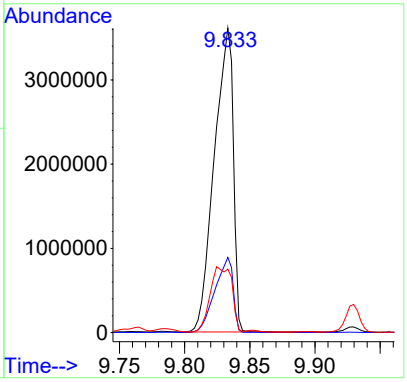


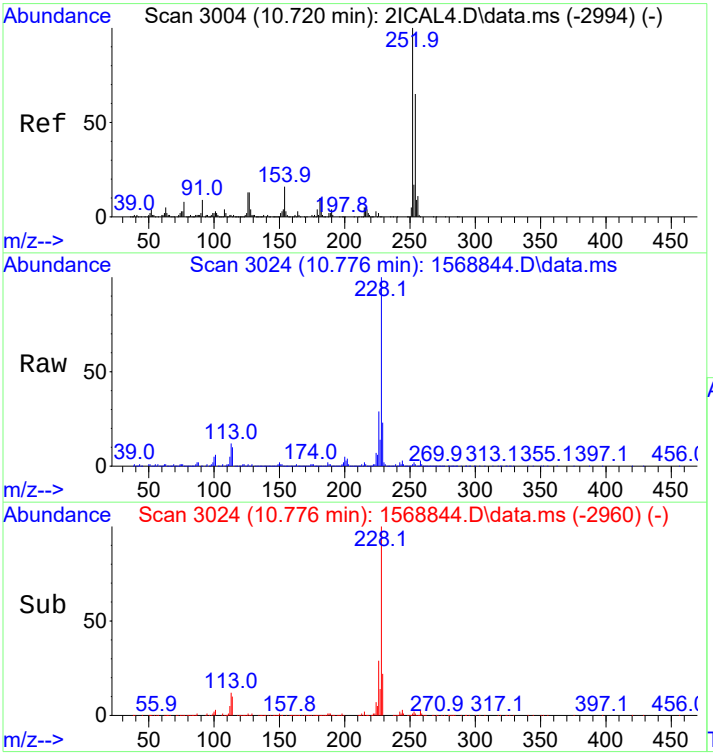



#77
Pyrene
Concen: 102.83 ug/mL
RT: 9.833 min Scan# 2692
Delta R.T. 0.014 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:202 Resp: 3648290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 24.7 | 0.0 | 52.2 |
| 203 | 20.8 | 0.0 | 48.2 |

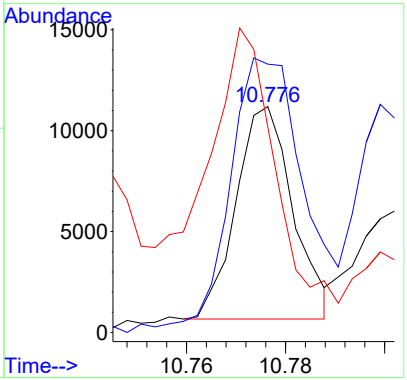


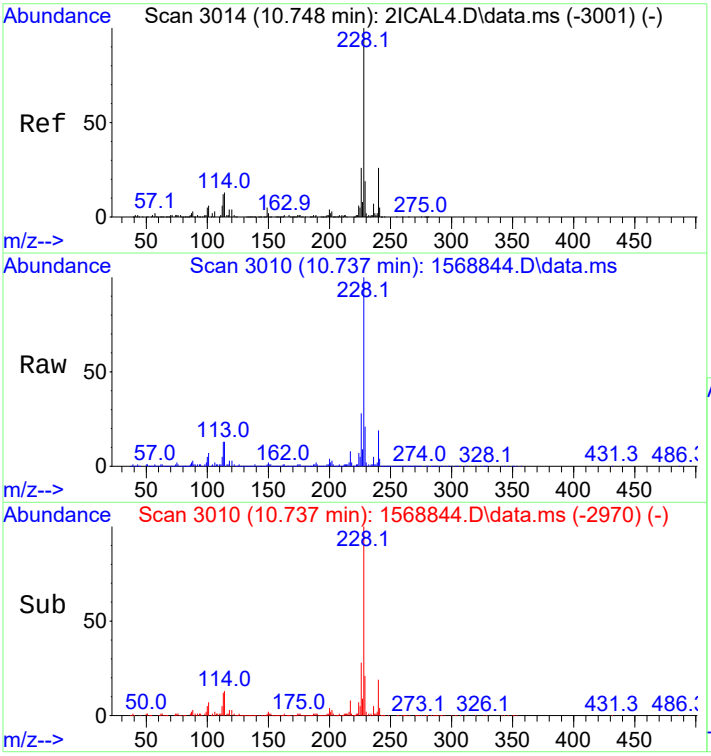




#81
33Diclbnzidin
Concen: 0.91 ug/mL
RT: 10.776 min Scan# 3024
Delta R.T. 0.082 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:252 Resp: 8409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 121.1 | 34.6 | 94.6# |
| 126 | 72.3 | 0.0 | 42.6# |

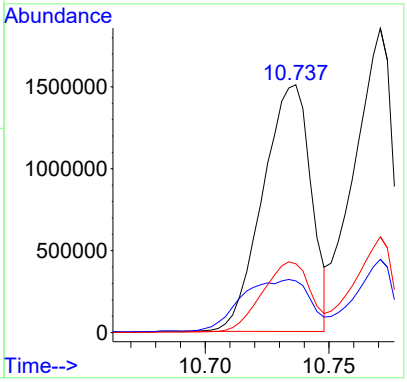


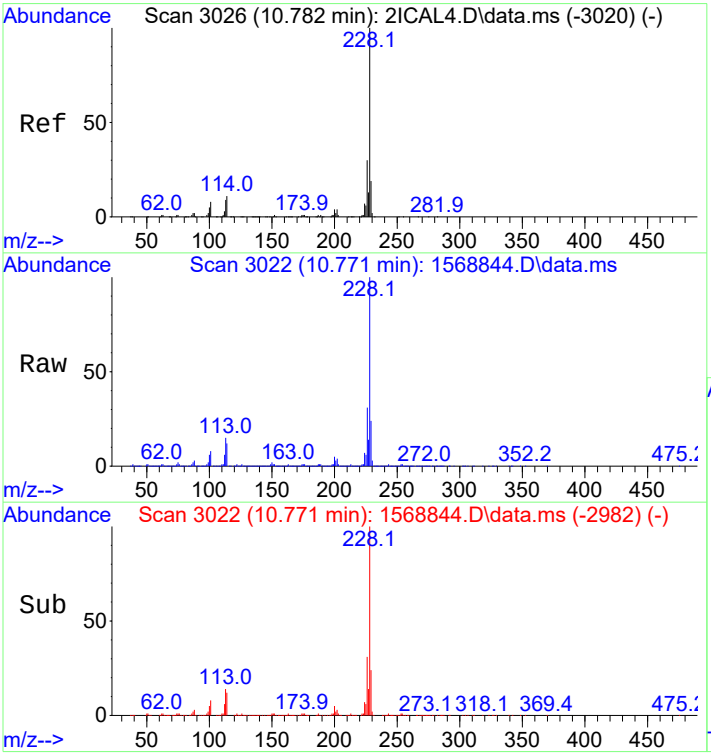



#82
B[a]anthracen
Concen: 60.77 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. 0.014 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:228 Resp: 2043423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.4 | 0.0 | 49.4 |
| 226 | 27.7 | 0.0 | 56.5 |

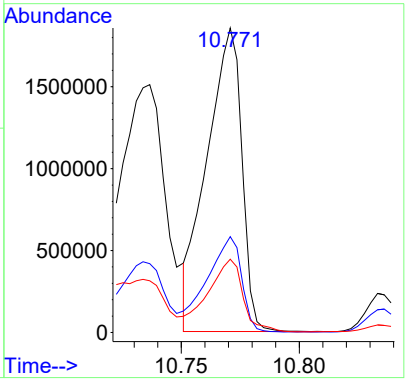


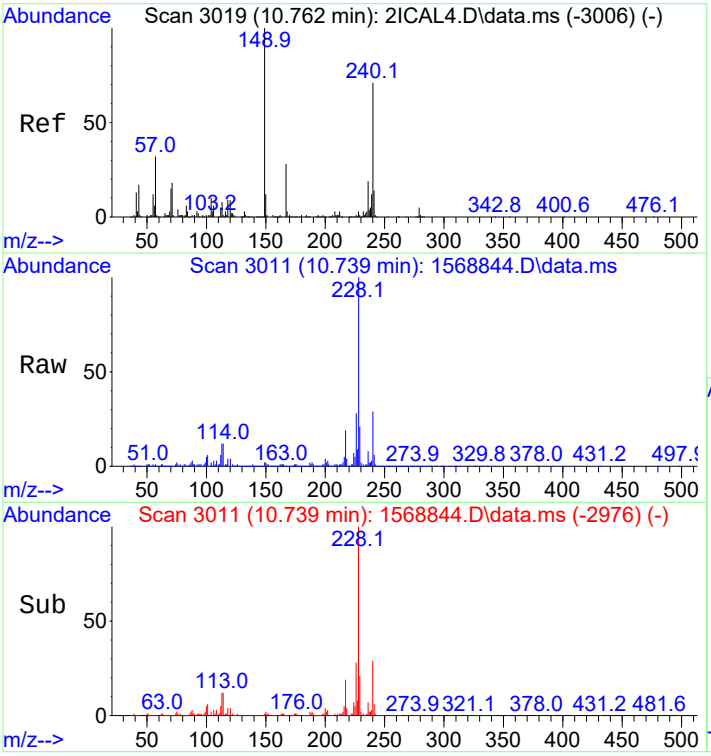




#83
Chrysene
Concen: 60.77 ug/mL
RT: 10.771 min Scan# 3022
Delta R.T. 0.014 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:228 Resp: 1916534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.4 | 0.0 | 59.9 |
| 229 | 23.9 | 0.0 | 49.5 |

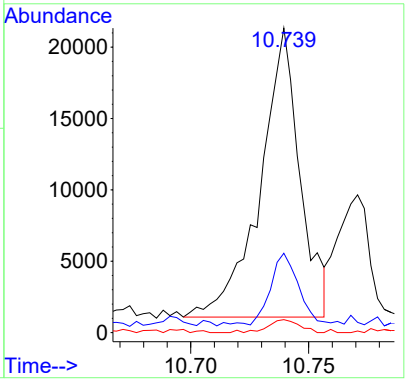


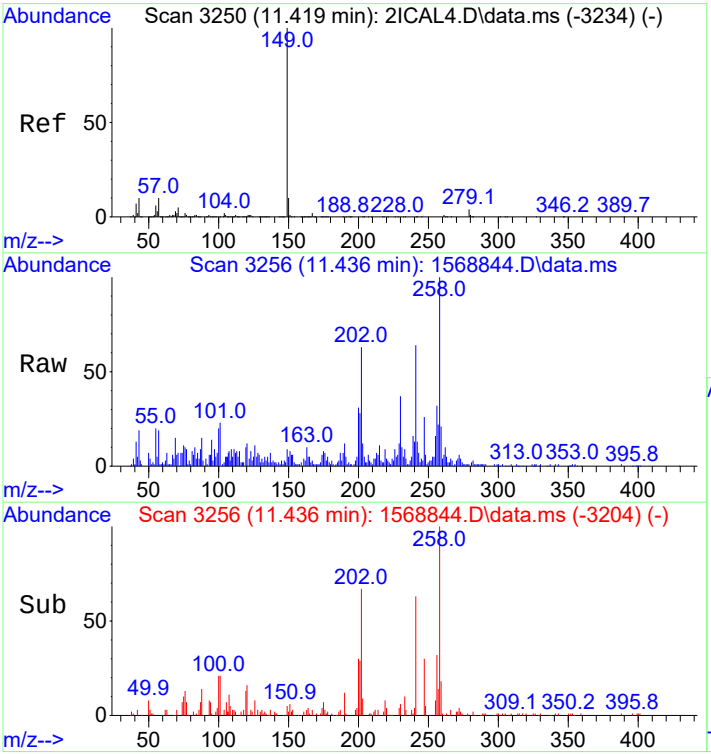



#84
bis2Ethlhxlph
Concen: 0.93 ug/mL
RT: 10.739 min Scan# 3011
Delta R.T. -0.000 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:149 Resp: 23748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.8 | 0.0 | 57.9 |
| 279 | 5.7 | 0.0 | 34.9 |

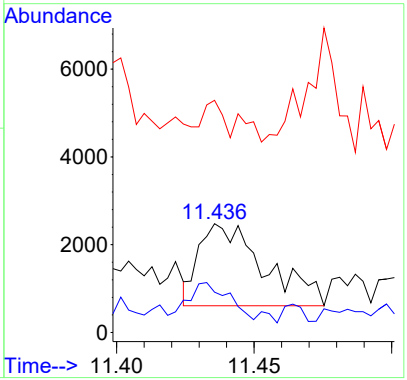


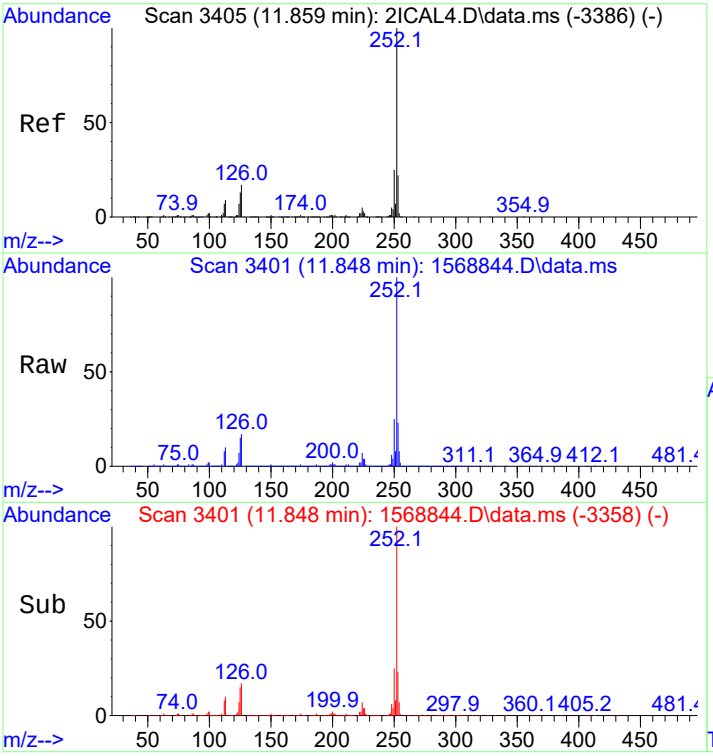




#85
Dinoctylphthl
Concen: 0.39 ug/mL
RT: 11.436 min Scan# 3256
Delta R.T. 0.048 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:149 Resp: 3093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 20.2 | 0.0 | 31.6 |
| 43 | 28.8 | 0.0 | 39.9 |

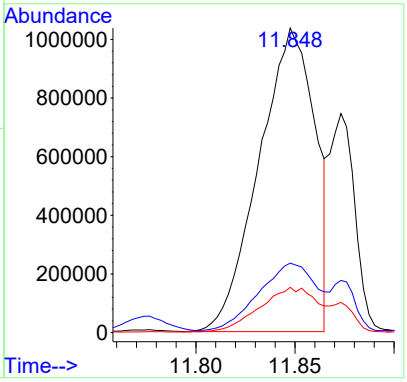


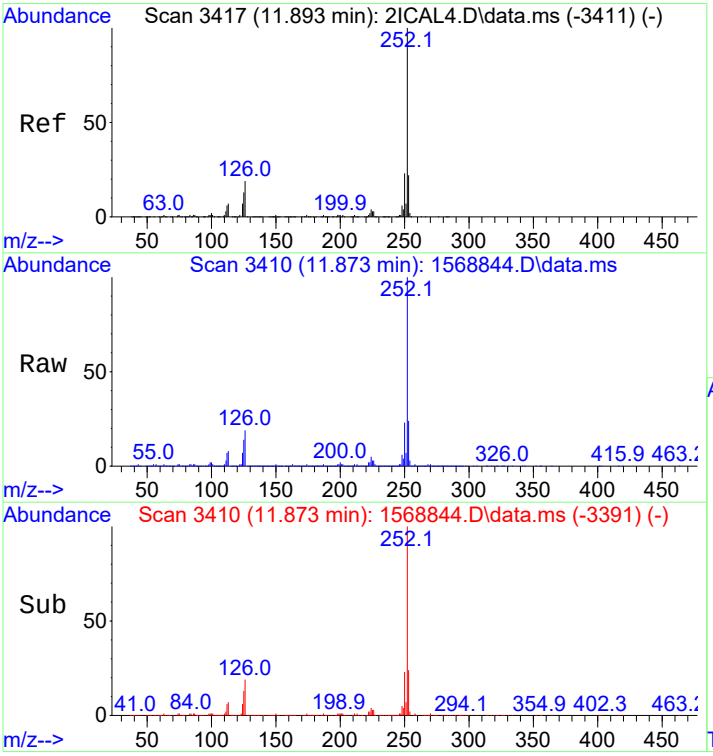



#87
B[b]fluoranth
Concen: 107.66 ug/mL
RT: 11.848 min Scan# 3401
Delta R.T. 0.023 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:252 Resp: 2035560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 0.0 | 52.3 |
| 125 | 14.7 | 0.0 | 43.2 |

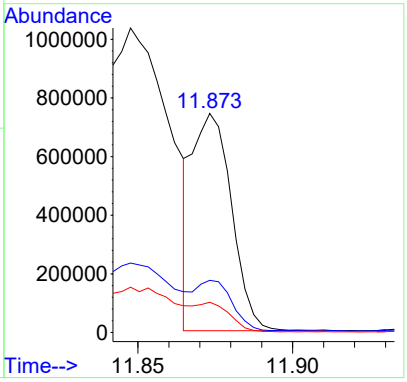


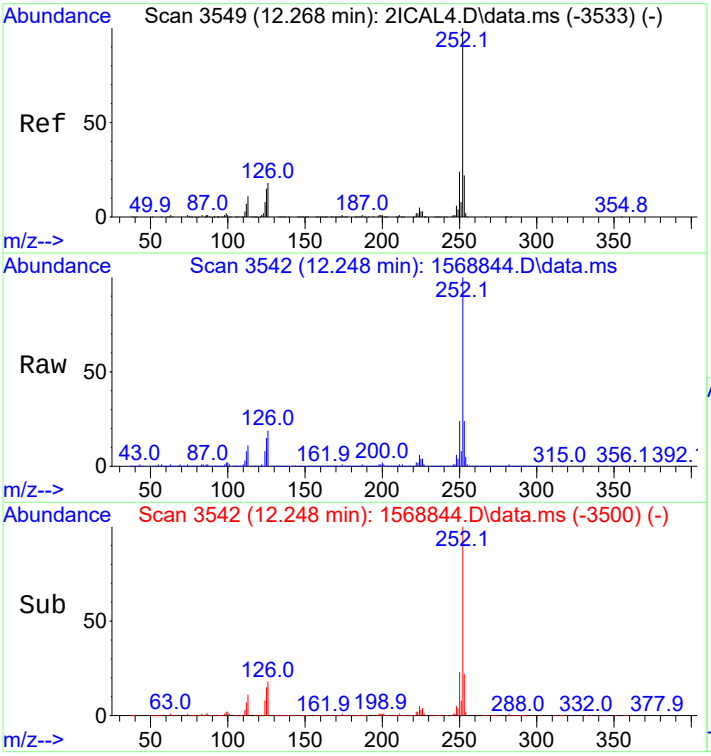




#88
B[k]fluoranth
Concen: 34.26 ug/mL
RT: 11.873 min Scan# 3410
Delta R.T. 0.014 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:252 Resp: 648939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 0.0 | 52.0 |
| 125 | 13.5 | 0.0 | 43.3 |

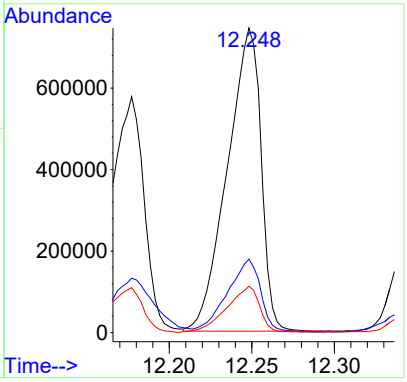


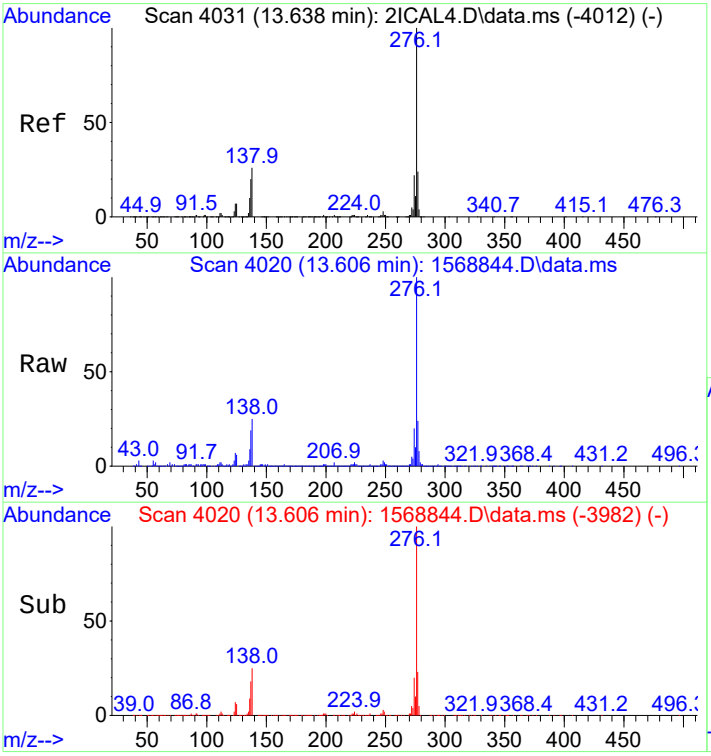



#89
Benz[a]pyrene
Concen: 60.70 ug/mL
RT: 12.248 min Scan# 3542
Delta R.T. 0.020 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:252 Resp: 1055460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 0.0 | 52.3 |
| 125 | 15.1 | 0.0 | 45.1 |

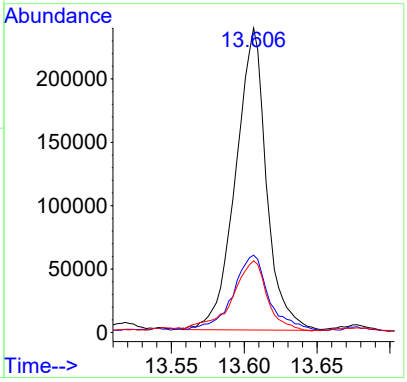


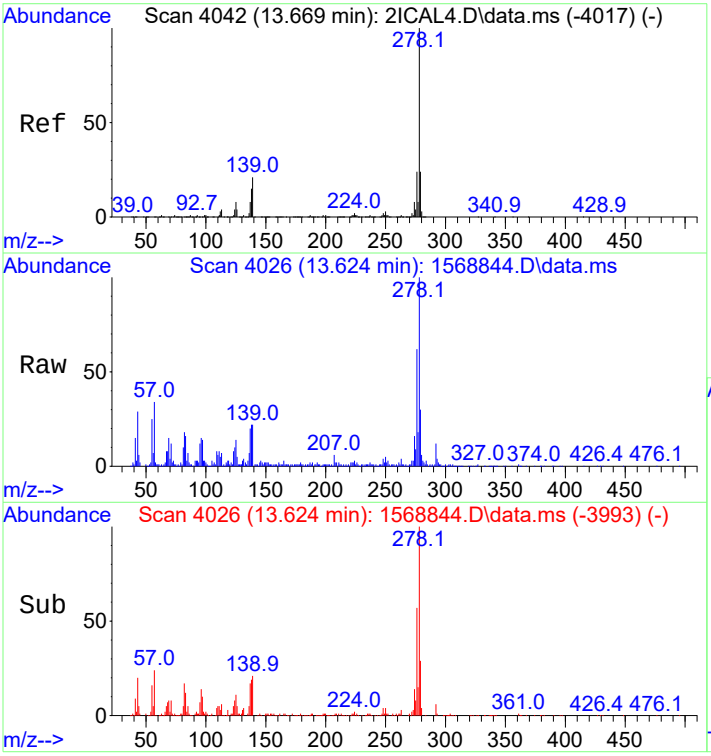




#90
Indeno-pyrene
Concen: 18.21 ug/mL
RT: 13.606 min Scan# 4020
Delta R.T. 0.008 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:276 Resp: 350301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.0 | 0.0 | 55.5 |
| 277 | 23.0 | 0.0 | 54.0 |

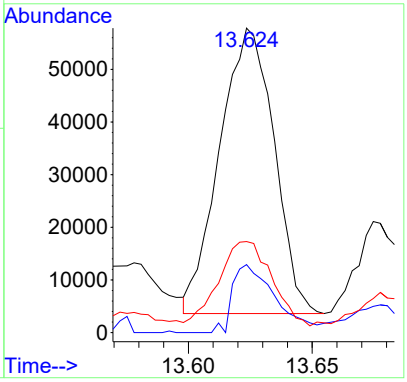


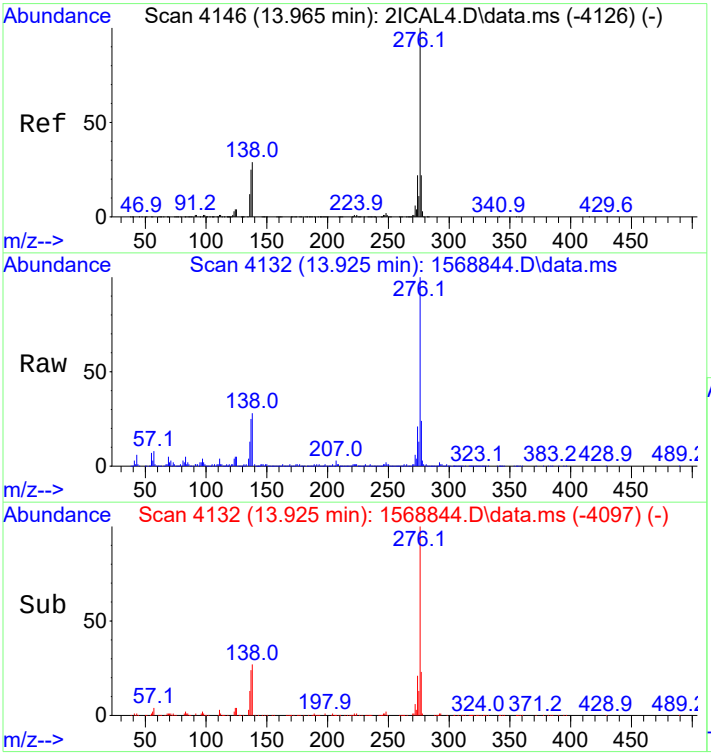



#91
Dib[ah]anthr
Concen: 5.29 ug/mL
RT: 13.624 min Scan# 4026
Delta R.T. -0.006 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:278 Resp: 83109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 23.8 | 0.0 | 50.9 |
| 279 | 28.5 | 0.0 | 54.4 |

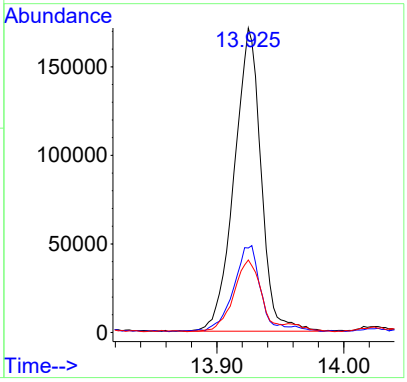



#92
B[ghi]perylen
Concen: 16.71 ug/mL
RT: 13.925 min Scan# 4132
Delta R.T. -0.000 min
Lab File: 1568844.D
Acq: 10 Apr 2025 20:01

Tgt Ion:276 Resp: 251804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.4 | 0.0 | 59.0 |
| 277 | 23.4 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568836.D Vial: 31
Acq On : 10 Apr 2025 20:24 Operator: ALD
Sample : 290730,1568836, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 20:40:53 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.329 | 152 | 168021 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.020 | 136 | 833273 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 469661 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.853 | 188 | 691502 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.745 | 240 | 534740 | 20.00 | ug/mL | 0.01 |
| 86) Perylene-d12 | 12.314 | 264 | 370654 | 20.00 | ug/mL | 0.01 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.099 | 112 | 181469 | 44.86 | %REC | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 44.86% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 245590 | 50.51 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.51% | | | |
| 22) SURRNitrbenzened5 | 5.011 | 82 | 101364 | 44.64 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 44.64% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 288193 | 51.43 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.43% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 65745 | 52.30 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 52.30% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 347317 | 66.61 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 66.61% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Pyridine | 2.610 | 79 | 4726 | 0.4066 | ug/mL# | 61 |
| 8) Phenol | 3.929 | 94 | 1788 | 0.1435 | ug/mL | 75 |
| 13) Benzyl alcoho | 4.486 | 108 | 972 | 0.1345 | ug/mL# | 72 |
| 14) bis2clispreth | 4.633 | 45 | 2499 | 0.1293 | ug/mL | 82 |
| 17) Acetophenone | 4.815 | 105 | 2294 | 0.1460 | ug/mL# | 58 |
| 20) 3&4Methylphenol | 4.829 | 107 | 1155 | 0.1026 | ug/mL# | 72 |
| 26) 24Dimthpheno | 5.676 | 122 | 4020 | 0.3590 | ug/mL# | 5 |
| 30) Benzoic acid | 5.676 | 122 | 4903 | 3.6311 | ug/mL# | 77 |
| 31) Naphthalene | 6.045 | 128 | 55320 | 1.4395 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.080 | 127 | 339 | 0.0226 | ug/mL# | 61 |
| 37) 2Methylnaphth | 6.838 | 142 | 16529 | 0.7116 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.938 | 142 | 17556 | 0.7309 | ug/mL | 100 |
| 46) 2Nitroaniline | 7.432 | 65 | 1803 | 0.5187 | ug/mL# | 8 |
| 47) Acnaphthylene | 7.674 | 152 | 59773 | 1.5725 | ug/mL | 99 |
| 50) Acenaphthene | 7.824 | 154 | 208874 | 9.2462 | ug/mL | 98 |
| 53) Dibenzofuran | 7.966 | 168 | 123866 | 3.7970 | ug/mL | 94 |
| 54) 24Dinitrotolu | 7.972 | 165 | 1270 | 0.1540 | ug/mL# | 1 |
| 55) 4-Nitrophenol | 7.969 | 65 | 1136 | 1.4896 | ug/mL# | 1 |
| 58) Fluorene | 8.236 | 166 | 175324 | 7.0303 | ug/mL | 97 |
| 60) Diethylphthal | 8.160 | 149 | 1227 | 0.0444 | ug/mL | 85 |
| 61) 4Nitroaniline | 8.236 | 138 | 2694 | 0.7781 | ug/mL# | 45 |
| 65) Ntrsdiphlam&Diphlam | 8.296 | 169 | 12945 | 0.7261 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 38078 | 5.9895 | ug/mL# | 1 |
| 70) Phenanthrene | 8.873 | 178 | 2822215 | 83.7711 | ug/mL | 94 |
| 71) Anthracene | 8.901 | 178 | 545853 | 15.9250 | ug/mL | 95 |
| 72) Carbazole | 9.003 | 167 | 570166 | 19.5347 | ug/mL | 98 |
| 73) Dinbtylphthal | 9.228 | 149 | 6936 | 0.1699 | ug/mL | 76 |
| 74) Fluoranthene | 9.680 | 202 | 4830264 | 135.7780 | ug/mL | 94 |
| 76) Benzidine | 9.796 | 184 | 884 | Below Cal | | 71 |
| 77) Pyrene | 9.836 | 202 | 3918315 | 115.3610 | ug/mL | 94 |
| 81) 33Diclbnzidin | 10.777 | 252 | 9285 | 1.0879 | ug/mL# | 1 |
| 82) B[a]anthracen | 10.737 | 228 | 2125834 | 66.0311 | ug/mL | 98 |
| 83) Chrysene | 10.771 | 228 | 2050005 | 67.8954 | ug/mL | 95 |
| 84) bis2Ethlhxlph | 10.740 | 149 | 19729 | 0.8052 | ug/mL | 92 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568836.D Vial: 31
Acq On : 10 Apr 2025 20:24 Operator: ALD
Sample : 290730,1568836, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 20:40:53 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

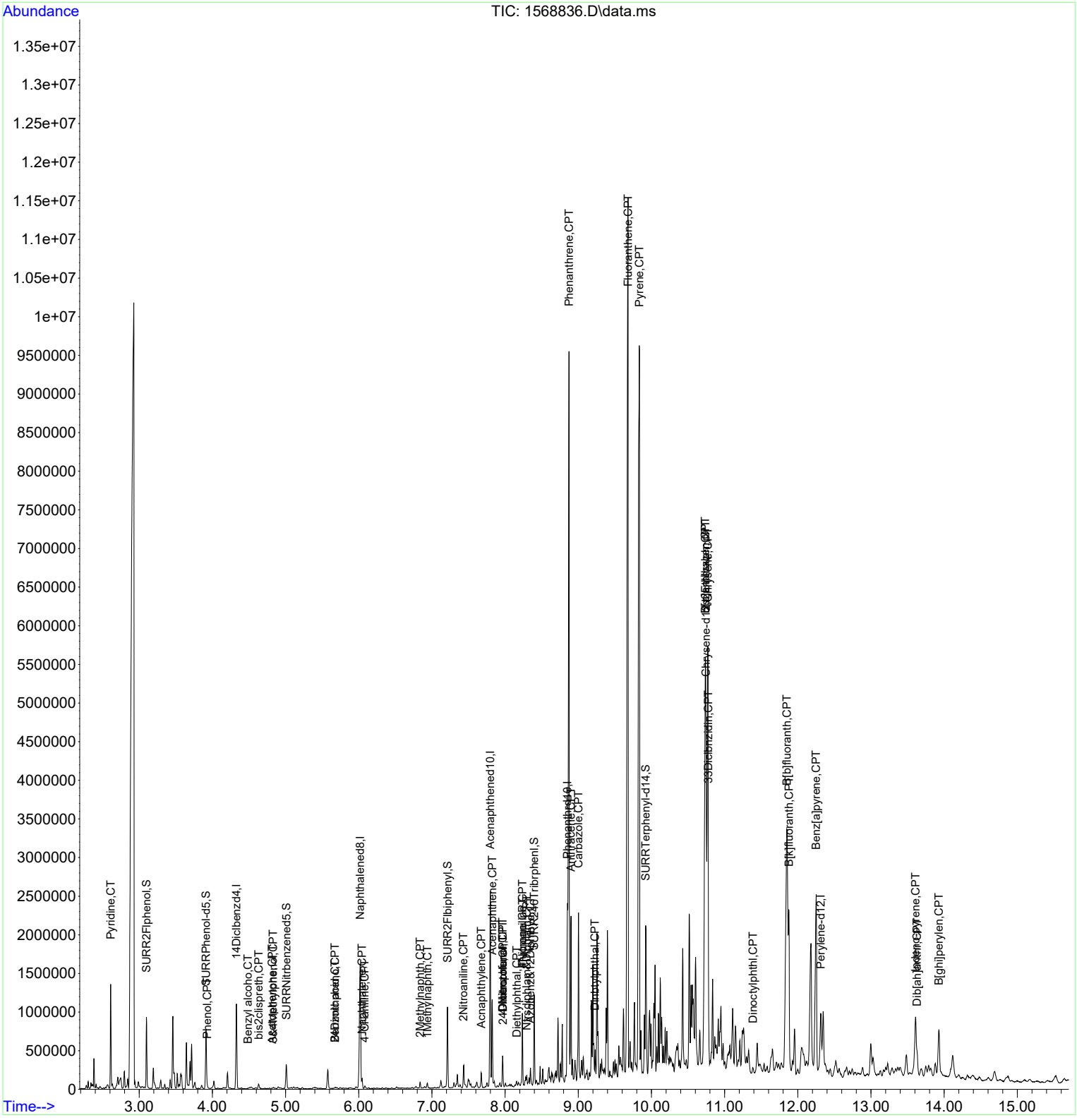
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 85) Dinoctylphthl | 11.387 | 149 | 3178 | 0.3908 | ug/mL | 83 |
| 87) B[b]fluoranth | 11.853 | 252 | 2263426 | 115.2798 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.879 | 252 | 698315 | 35.4983 | ug/mL | 97 |
| 89) Benz[a]pyrene | 12.251 | 252 | 1167568 | 64.6621 | ug/mL | 97 |
| 90) Indeno-pyrene | 13.609 | 276 | 423013 | 21.1812 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.629 | 278 | 94657 | 5.7983 | ug/mL | 95 |
| 92) B[ghi]perylen | 13.928 | 276 | 318061 | 20.3274 | ug/mL | 97 |

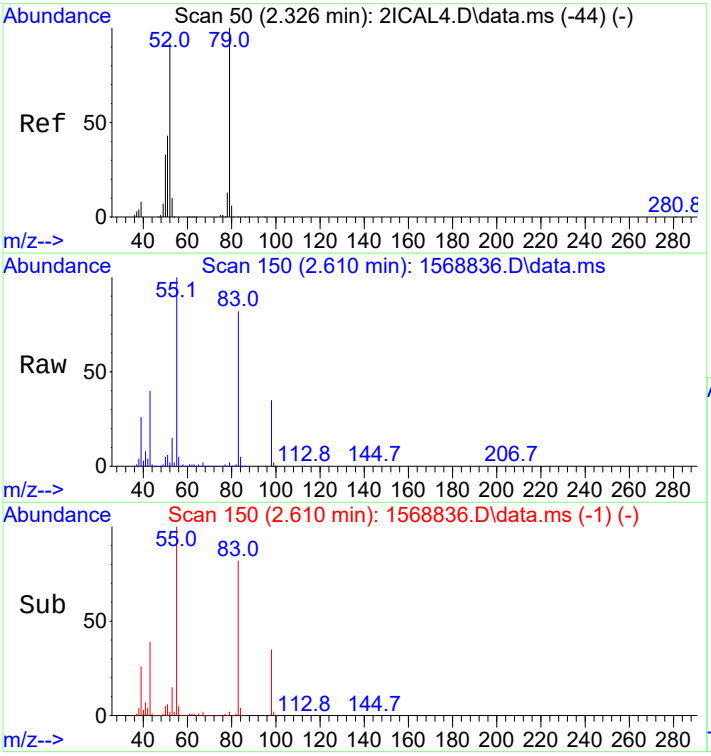
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568836.D Vial: 31
Acq On : 10 Apr 2025 20:24 Operator: ALD
Sample : 290730,1568836, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 20:40:53 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

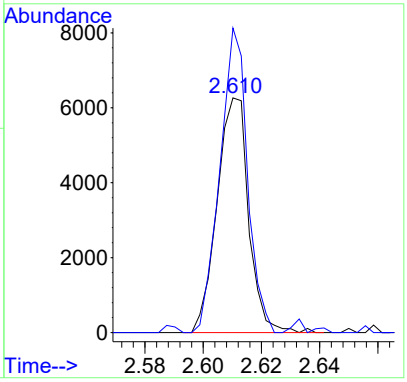


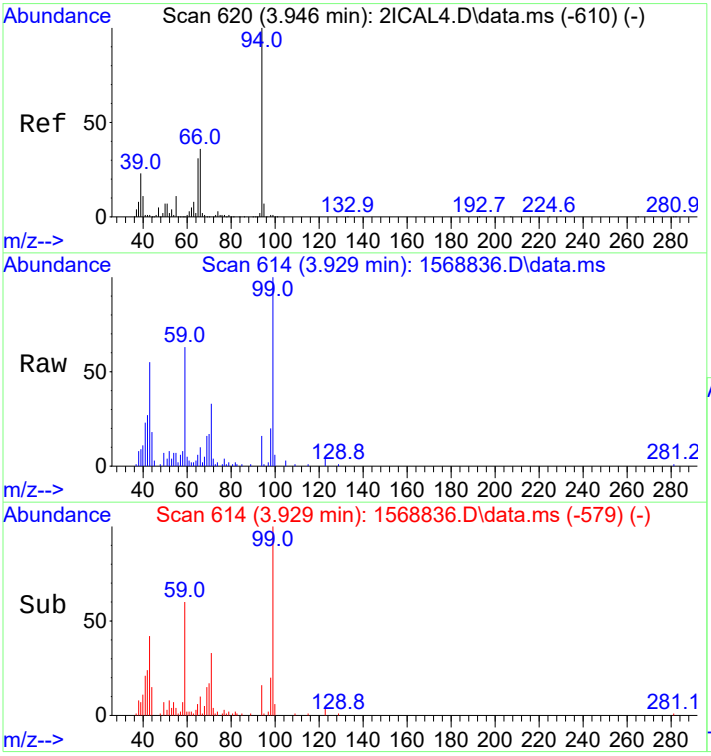



#3
Pyridine
Concen: 0.41 ug/mL
RT: 2.610 min Scan# 150
Delta R.T. 0.301 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion: 79 Resp: 4726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 129.7 | 62.5 | 122.5# |

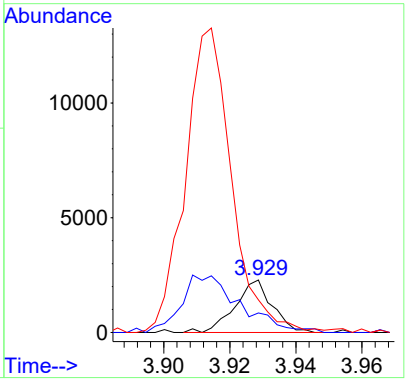


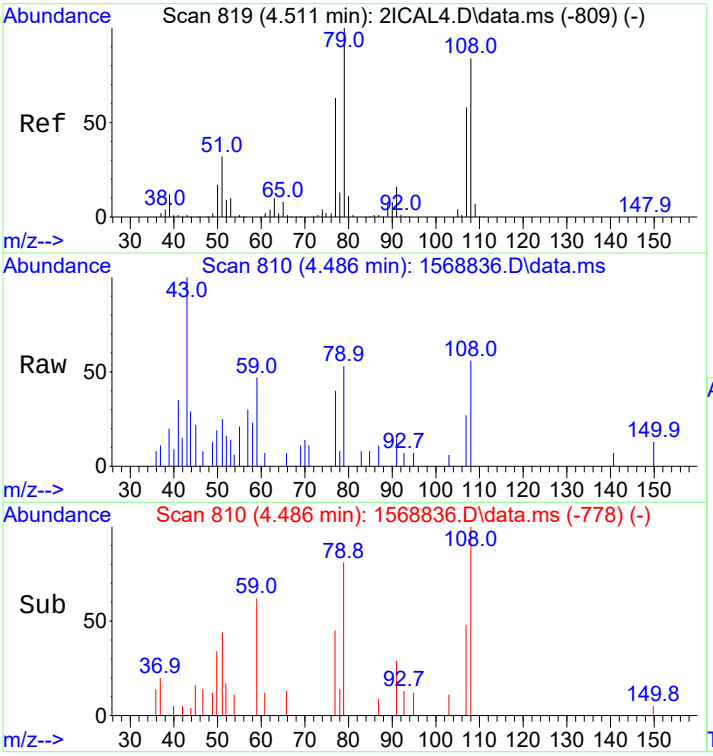




#8
Phenol
Concen: 0.14 ug/mL
RT: 3.929 min Scan# 614
Delta R.T. 0.000 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion: 94 Resp: 1788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 37.3 | 0.7 | 60.7 |
| 66 | 57.8 | 6.4 | 66.4 |

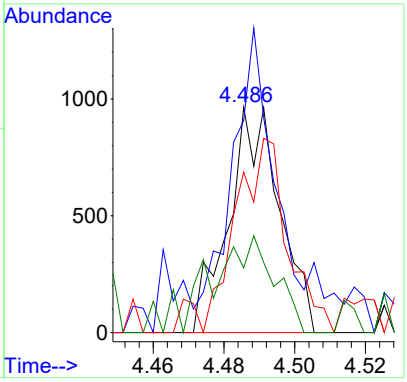


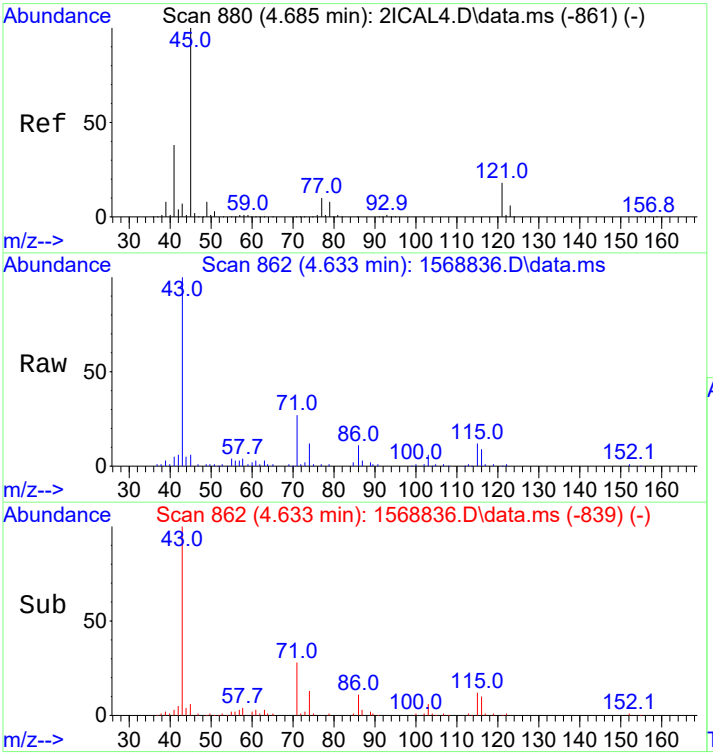



#13
Benzyl alcoho
Concen: 0.13 ug/mL
RT: 4.486 min Scan# 810
Delta R.T. -0.009 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:108 Resp: 972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 79 | 78.9 | 89.6 | 149.6# |
| 77 | 60.3 | 44.8 | 104.8 |
| 91 | 28.7 | 0.0 | 49.0 |

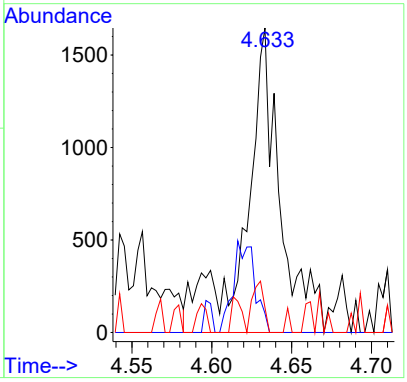


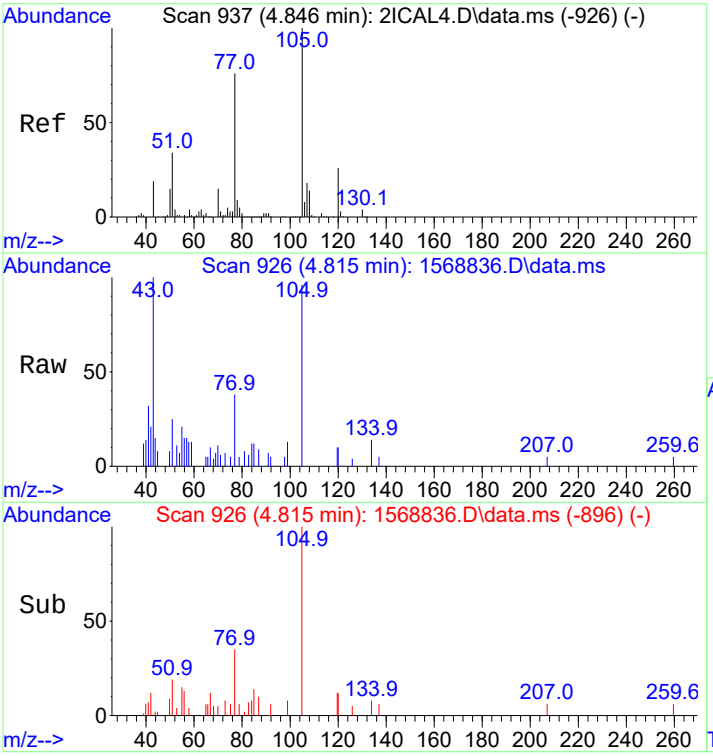




#14
bis2clispreth
Concen: 0.13 ug/mL
RT: 4.633 min Scan# 862
Delta R.T. -0.034 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion: 45 Resp: 2499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 6.3 | 0.0 | 47.5 |
| 77 | 8.2 | 0.0 | 40.1 |

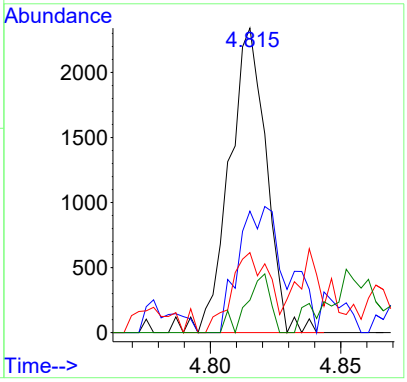


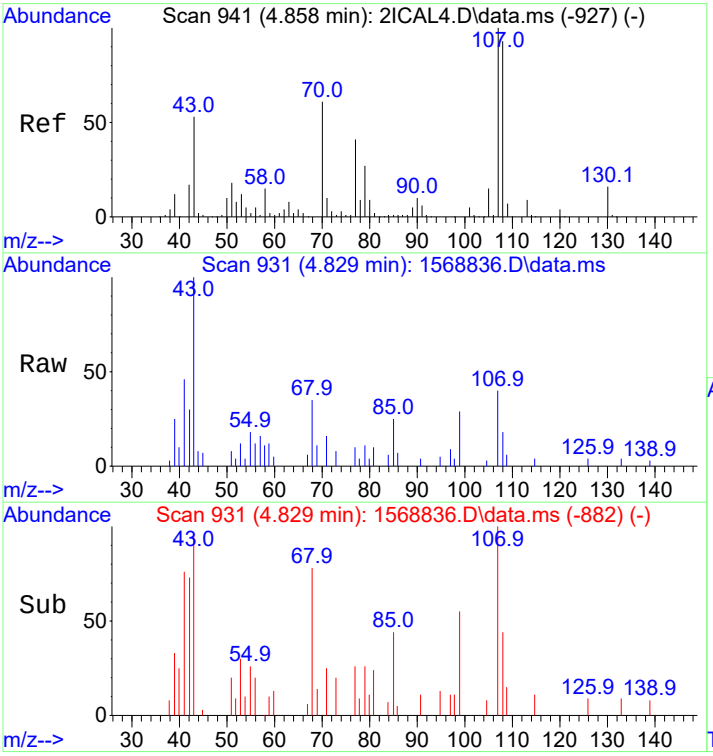



#17
Acetophenone
Concen: 0.15 ug/mL
RT: 4.815 min Scan# 926
Delta R.T. -0.014 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:105 Resp: 2294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 30.6 | 46.3 | 106.3# |
| 51 | 21.9 | 3.7 | 63.7 |
| 120 | 5.6 | 0.0 | 55.6 |

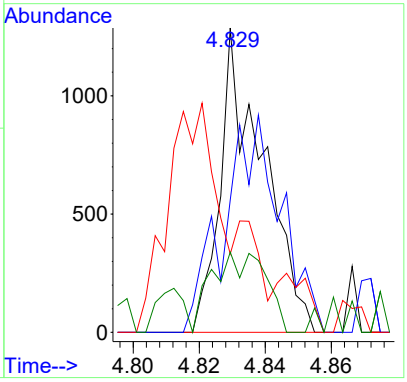


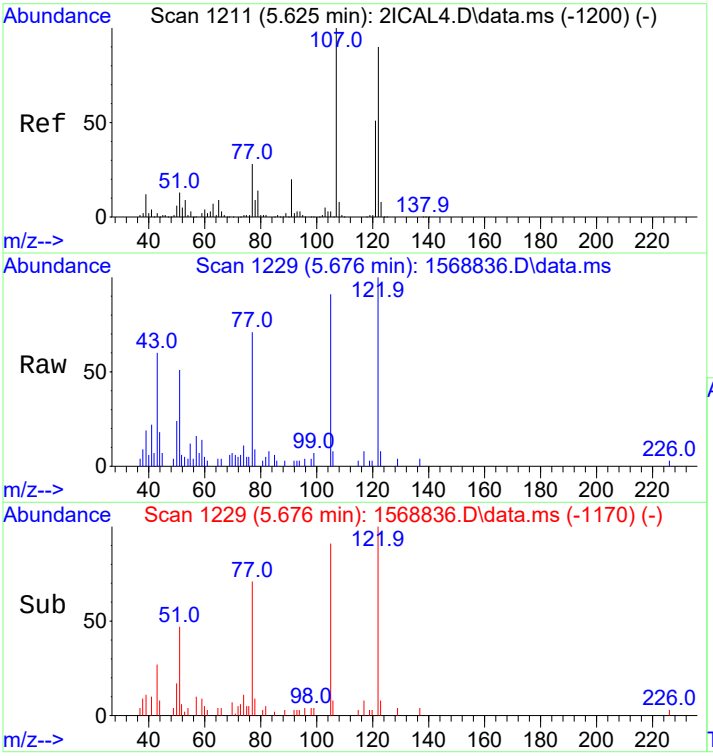




#20
3&4Methylphenol
Concen: 0.10 ug/mL
RT: 4.829 min Scan# 931
Delta R.T. -0.011 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:107 Resp: 1155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 58.0 | 63.3 | 123.3# |
| 77 | 25.8 | 11.4 | 71.4 |
| 79 | 26.3 | 0.0 | 56.9 |

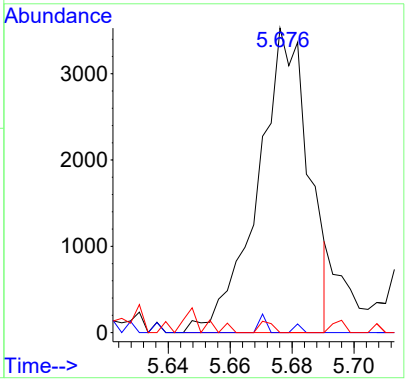


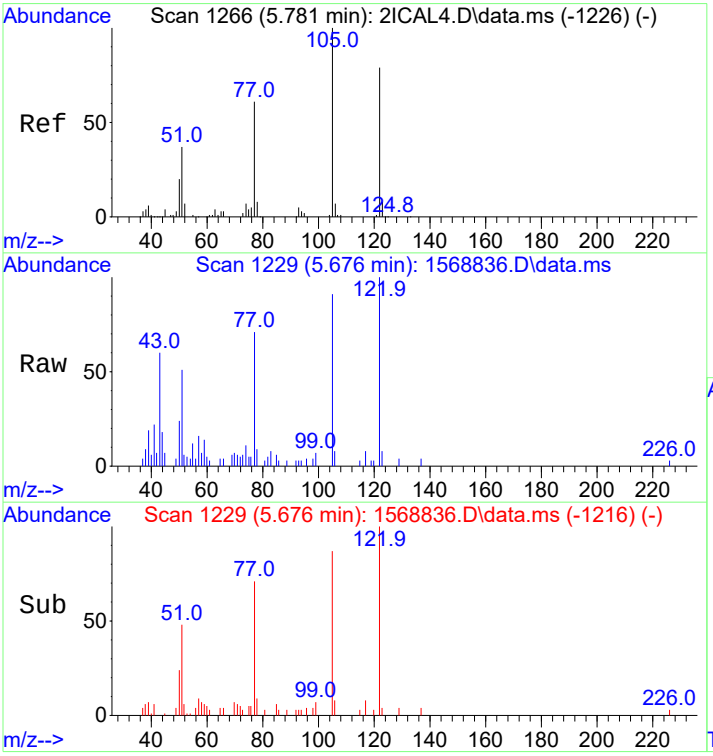



#26
24Dimthpheno
Concen: 0.36 ug/mL
RT: 5.676 min Scan# 1229
Delta R.T. 0.068 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:122 Resp: 4020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 0.0 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

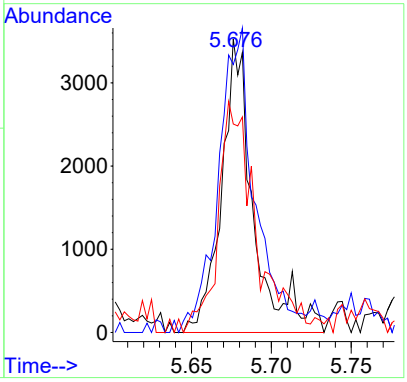


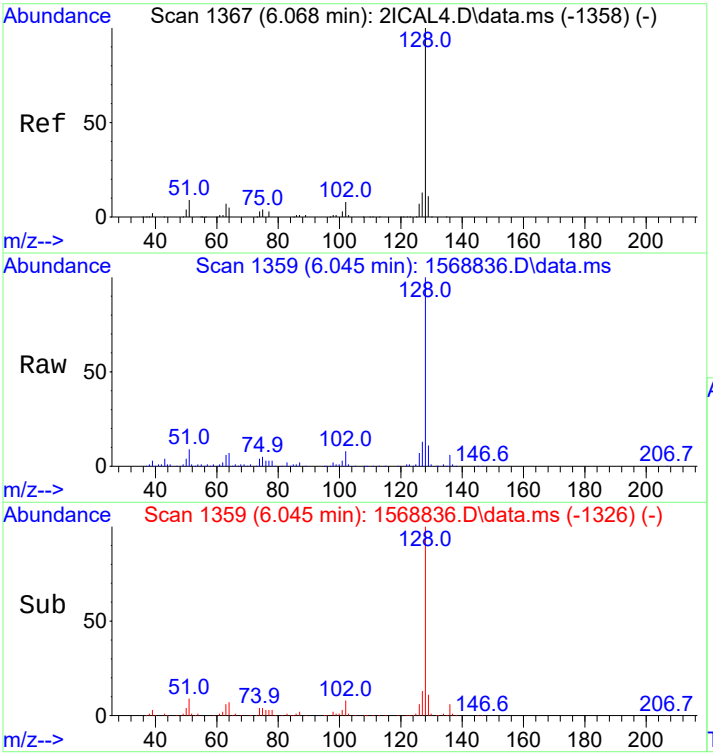




#30
Benzoic acid
Concen: 3.63 ug/mL
RT: 5.676 min Scan# 1229
Delta R.T. -0.094 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:122 Resp: 4903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 87.4 | 96.0 | 156.0# |
| 77 | 71.0 | 46.6 | 106.6 |

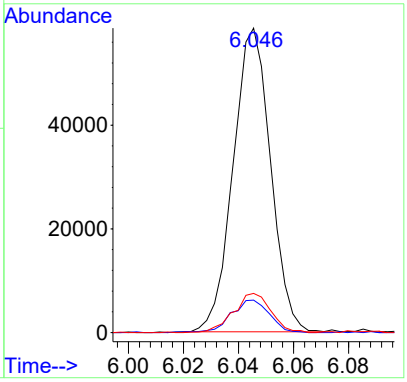


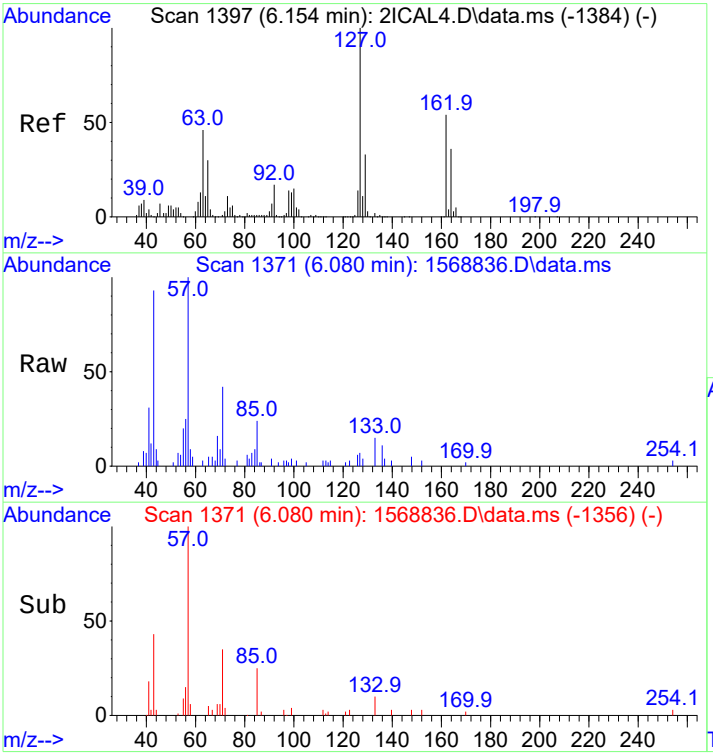



#31
Naphthalene
Concen: 1.44 ug/mL
RT: 6.045 min Scan# 1359
Delta R.T. -0.006 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:128 Resp: 55320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.7 | 0.0 | 41.0 |
| 127 | 12.9 | 0.0 | 43.3 |

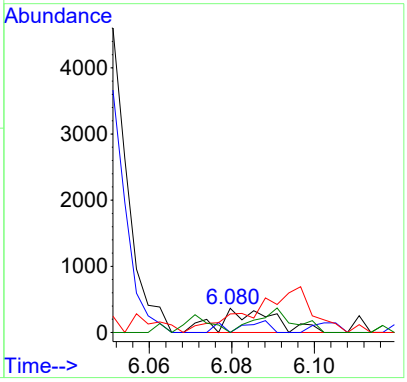


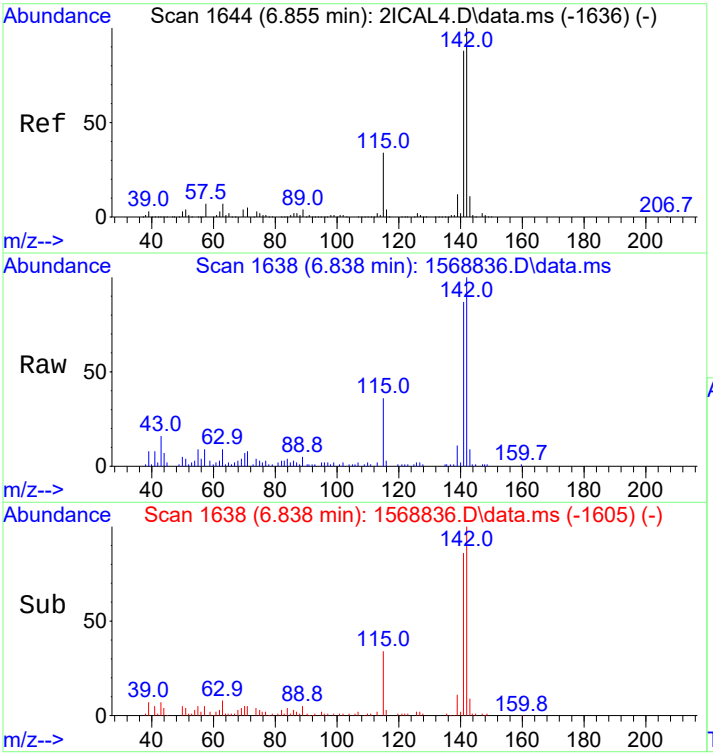




#32
4-Cl-aniline
Concen: 0.02 ug/mL
RT: 6.080 min Scan# 1371
Delta R.T. -0.057 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:127 Resp: 339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 0.0 | 3.1 | 63.1# |
| 65 | 39.8 | 0.2 | 60.2 |
| 92 | 0.0 | 0.0 | 46.7 |

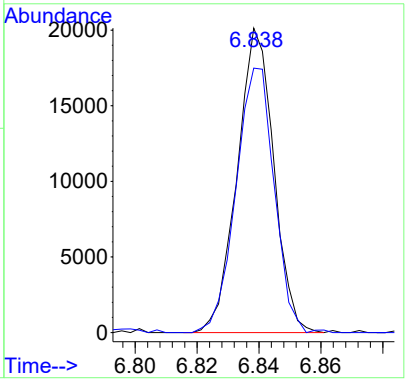


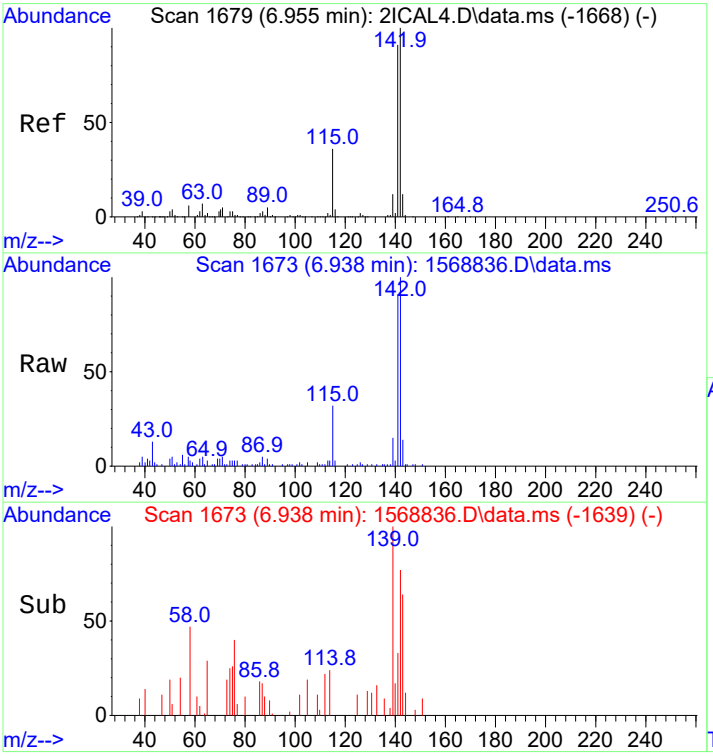



#37
2Methylnaphth
Concen: 0.71 ug/mL
RT: 6.838 min Scan# 1638
Delta R.T. -0.006 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:142 Resp: 16529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.9 | 58.0 | 118.0 |

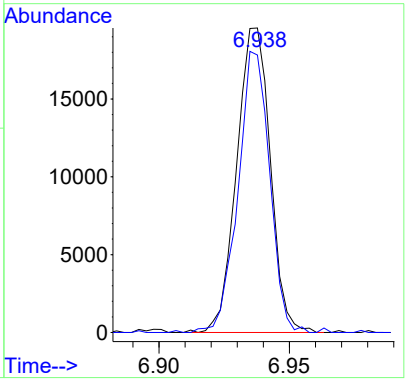


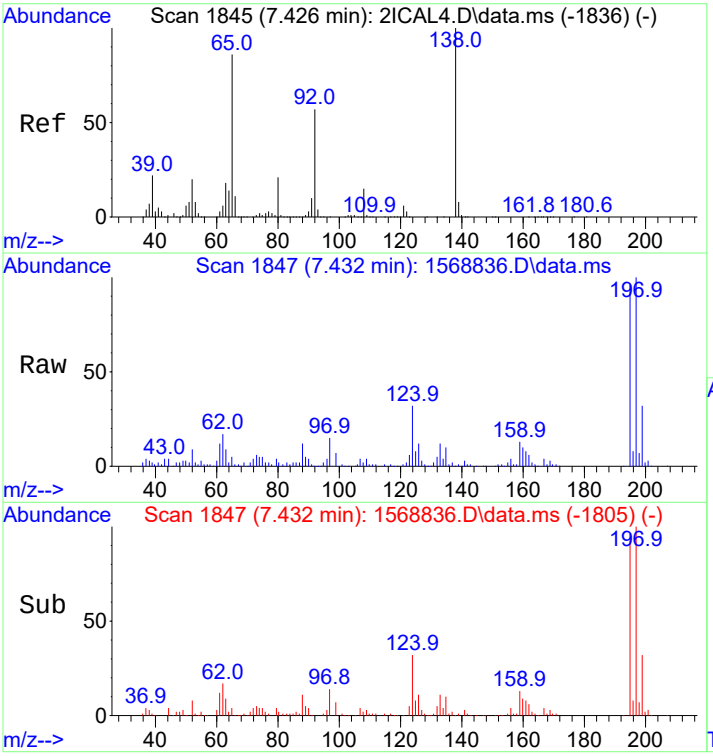




#38
1Methylnaphth
Concen: 0.73 ug/mL
RT: 6.938 min Scan# 1673
Delta R.T. -0.003 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:142 Resp: 17556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.1 | 60.7 | 120.7 |

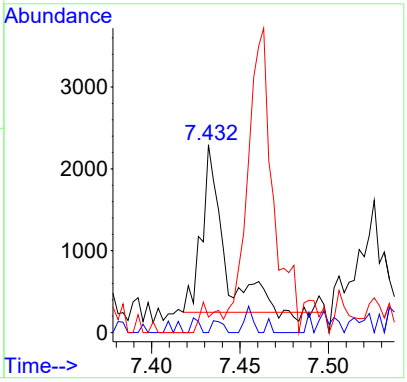


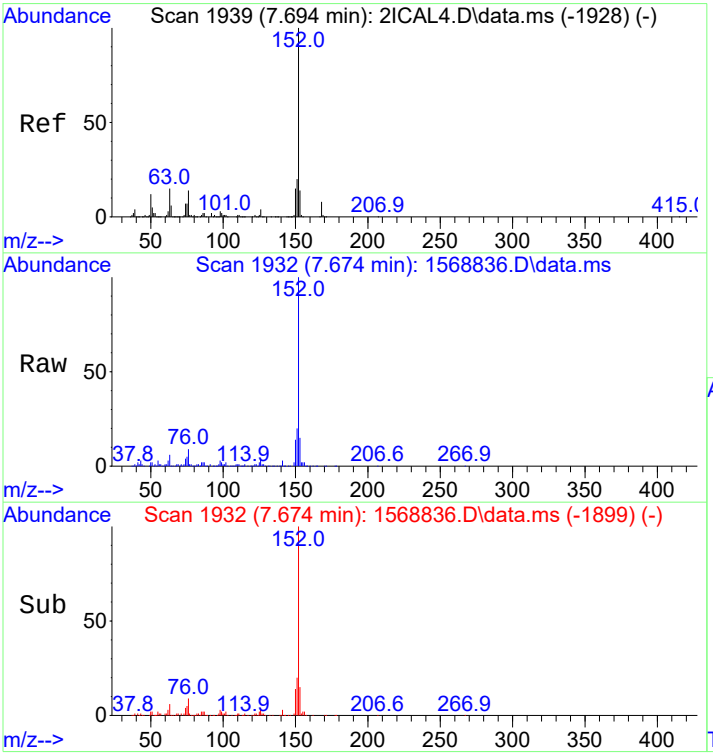



#46
2Nitroaniline
Concen: 0.52 ug/mL
RT: 7.432 min Scan# 1847
Delta R.T. 0.020 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion: 65 Resp: 1803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 0.0 | 36.2 | 96.2# |
| 138 | 9.7 | 85.6 | 145.6# |

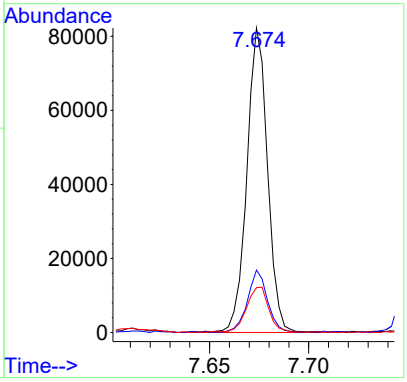


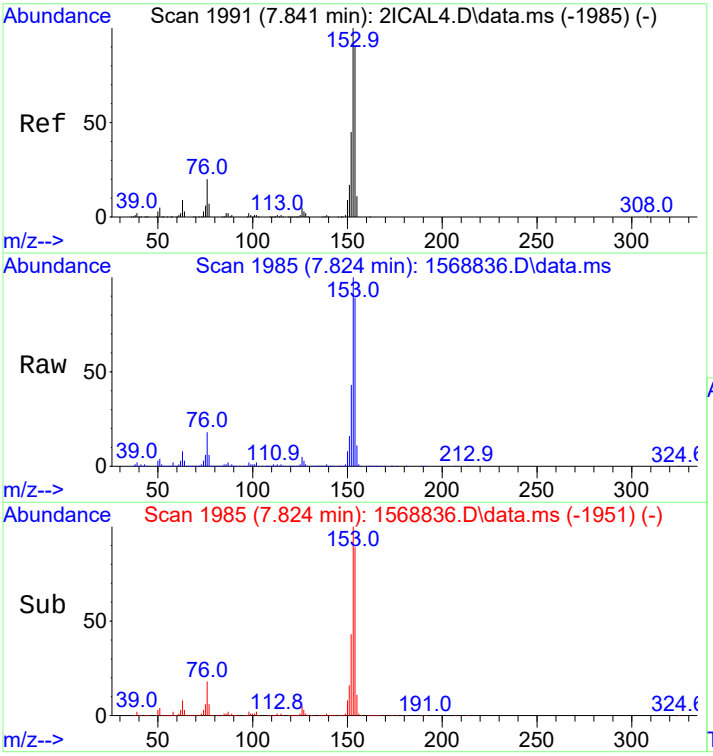




#47
Acnaphthylene
Concen: 1.57 ug/mL
RT: 7.674 min Scan# 1932
Delta R.T. -0.006 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:152 Resp: 59773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.5 | 0.0 | 50.3 |
| 153 | 14.7 | 0.0 | 44.4 |

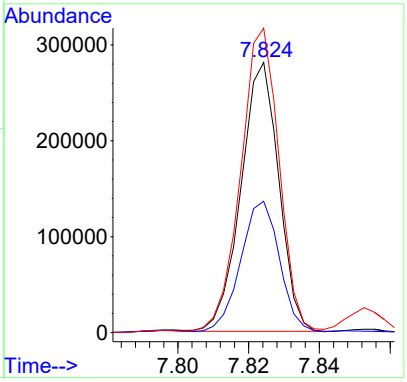


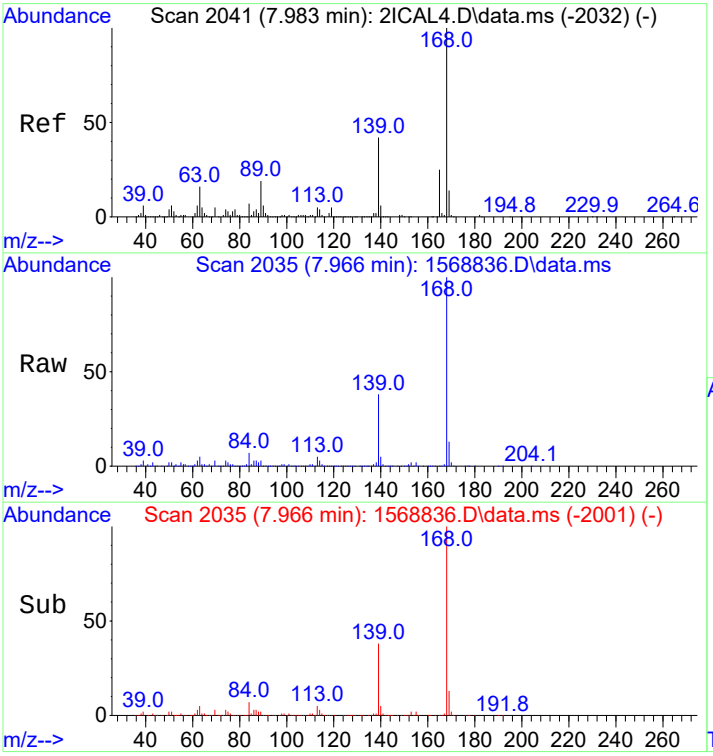



#50
Acenaphthene
Concen: 9.25 ug/mL
RT: 7.824 min Scan# 1985
Delta R.T. -0.003 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:154 Resp: 208874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 48.5 | 20.0 | 80.0 |
| 153 | 112.7 | 80.7 | 140.7 |

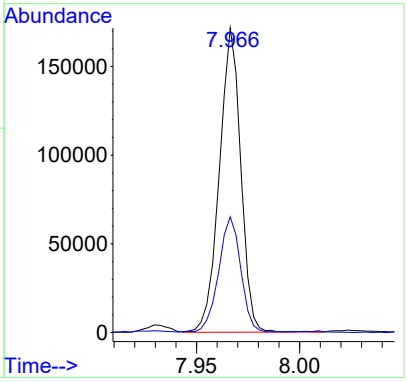


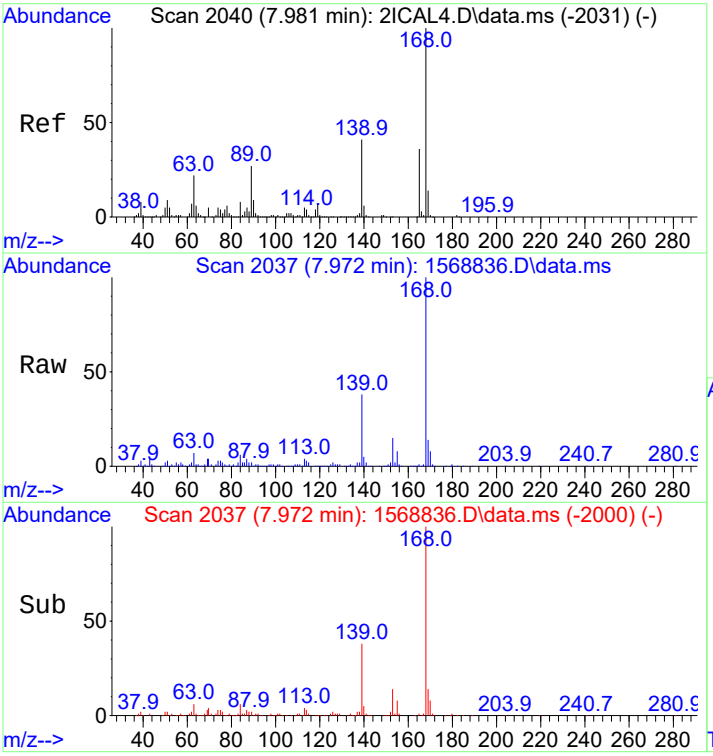




#53
Dibenzofuran
Concen: 3.80 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.003 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:168 Resp: 123866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 37.8 | 11.9 | 71.9 |

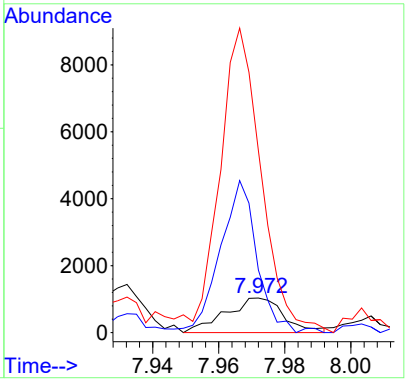


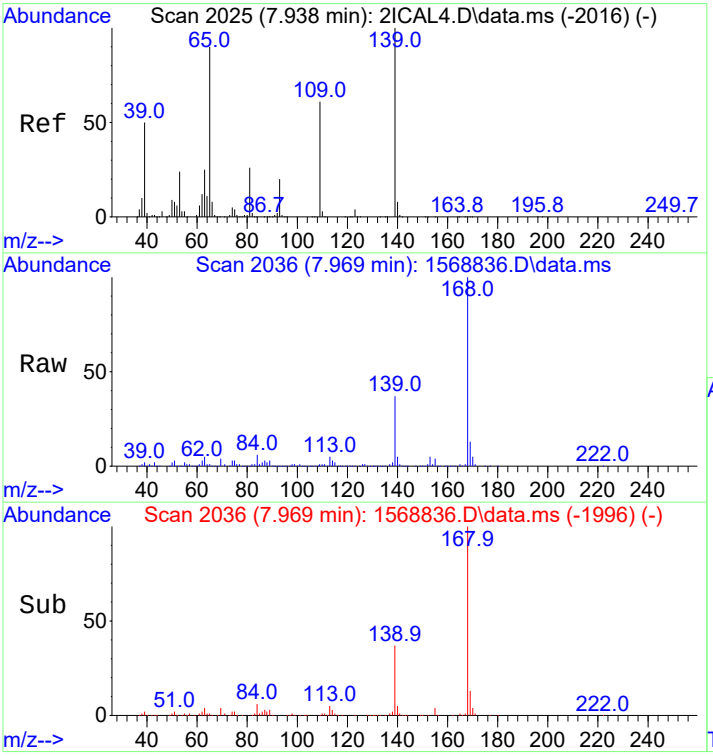



#54
24Dinitrotolu
Concen: 0.15 ug/mL
RT: 7.972 min Scan# 2037
Delta R.T. 0.006 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:165 Resp: 1270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 181.3 | 46.1 | 106.1# |
| 63 | 514.1 | 32.6 | 92.6# |

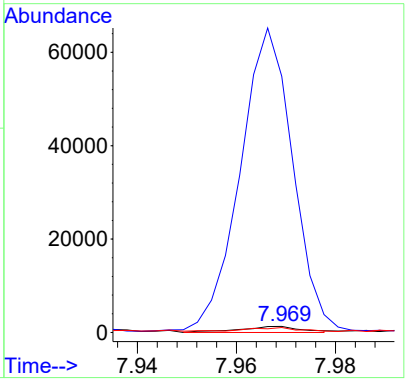


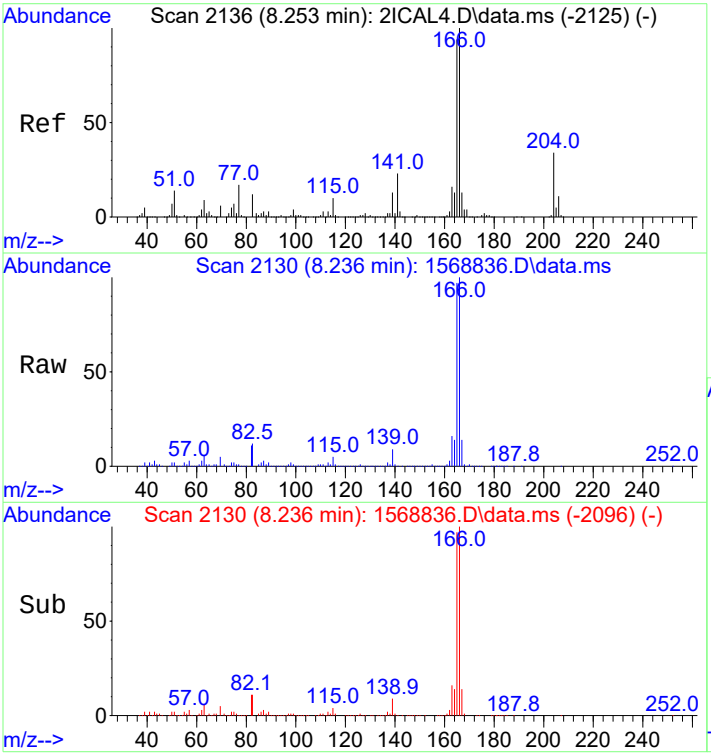




#55
4-Nitrophenol
Concen: 1.49 ug/mL
RT: 7.969 min Scan# 2036
Delta R.T. 0.048 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion: 65 Resp: 1136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 3561.2 | 80.5 | 140.5# |
| 109 | 50.8 | 37.6 | 97.6 |

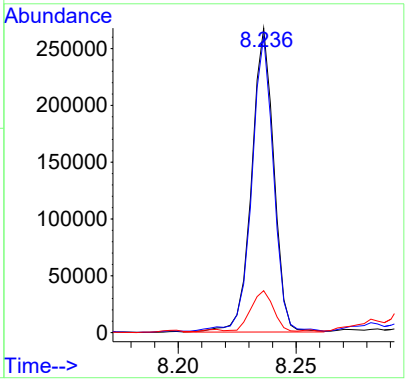


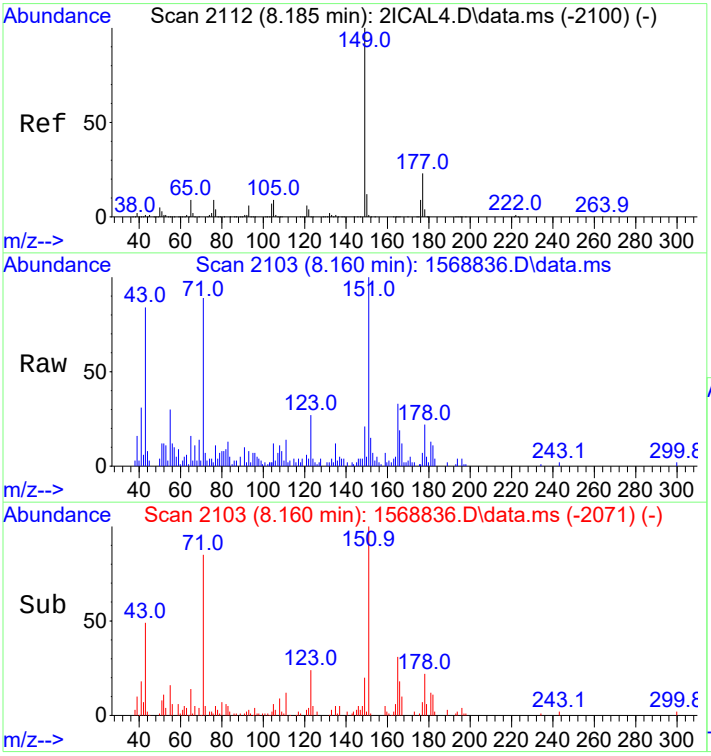



#58
Fluorene
Concen: 7.03 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:166 Resp: 175324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.0 | 63.6 | 123.6 |
| 167 | 13.4 | 0.0 | 43.3 |

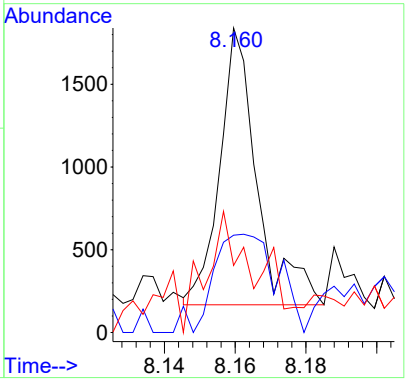


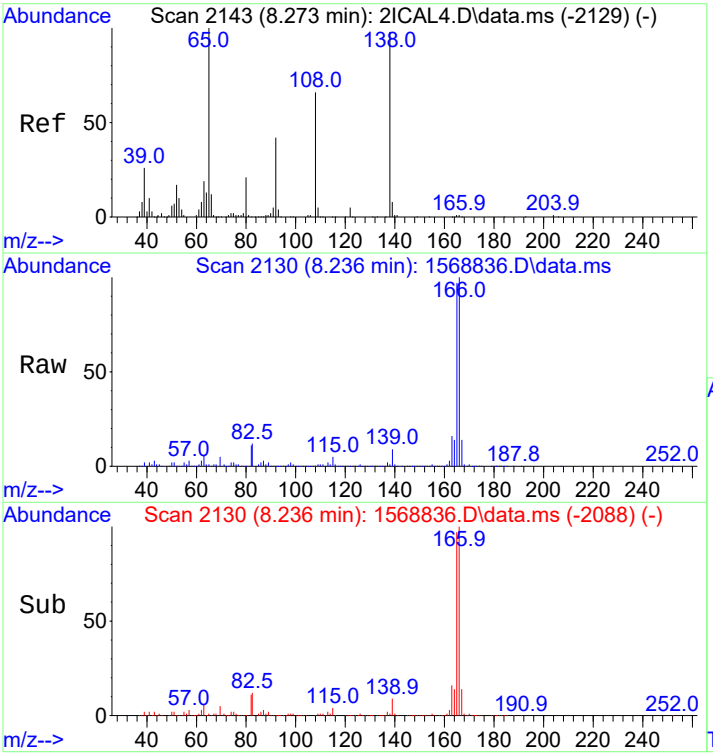




#60
Diethylphthal
Concen: 0.04 ug/mL
RT: 8.160 min Scan# 2103
Delta R.T. -0.009 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:149 Resp: 1227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 25.6 | 0.0 | 52.5 |
| 150 | 24.2 | 0.0 | 42.2 |

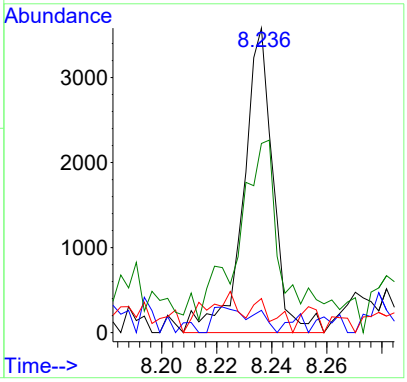


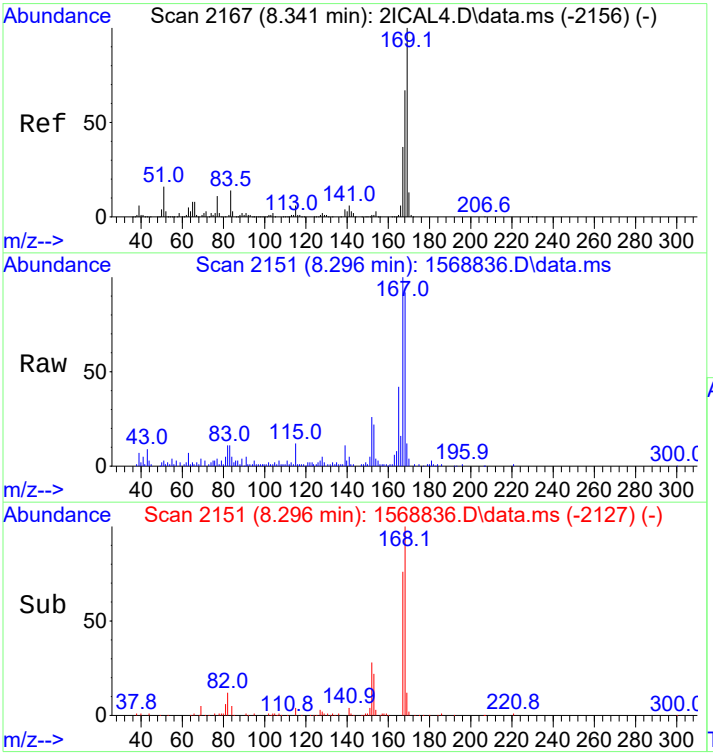



#61
4Nitroaniline
Concen: 0.78 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.020 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:138 Resp: 2694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 14.0 | 12.7 | 72.7 |
| 108 | 11.2 | 36.9 | 96.9# |
| 65 | 51.6 | 71.1 | 131.1# |

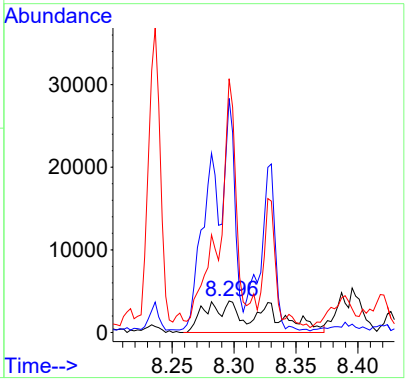


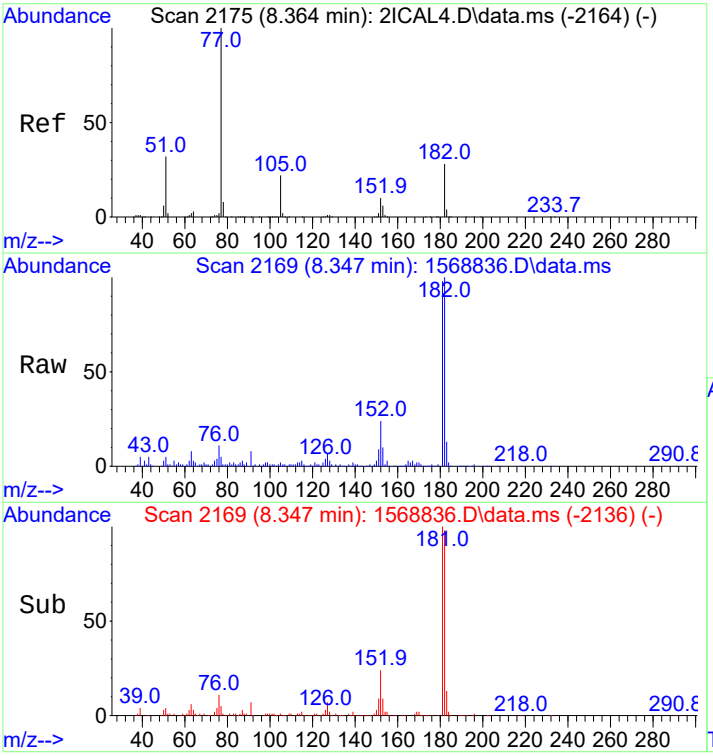




#65
Ntrsdiphlam&Diphlam
Concen: 0.73 ug/mL
RT: 8.296 min Scan# 2151
Delta R.T. -0.031 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:169 Resp: 12945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 732.2 | 37.2 | 97.2# |
| 167 | 768.9 | 6.9 | 66.9# |

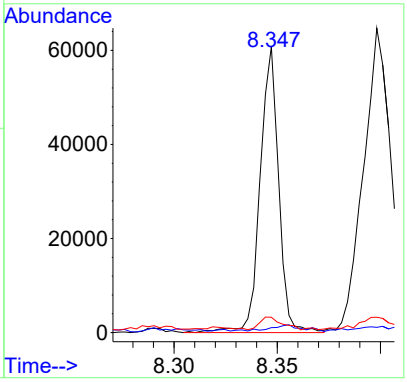


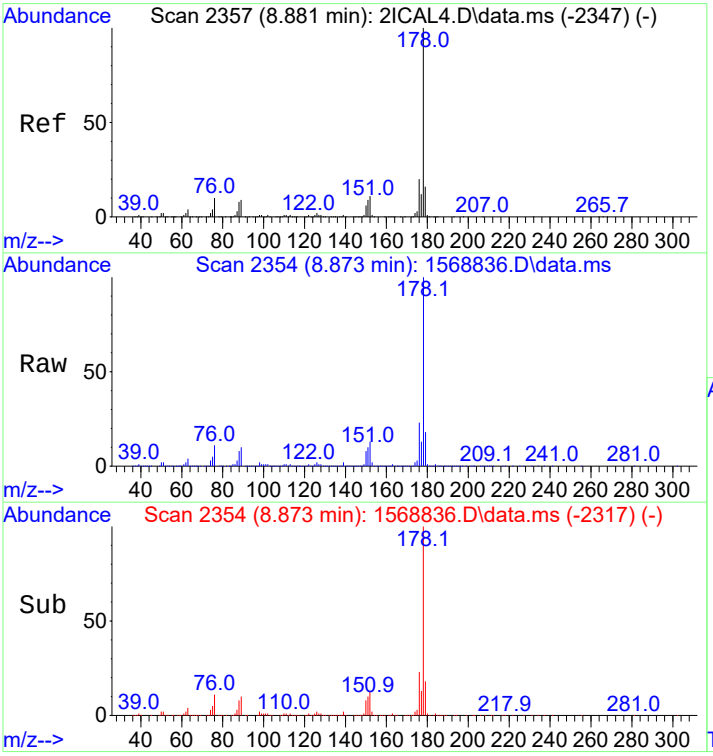



#66
Azobenz&12Diphlhyd
Concen: 5.99 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:182 Resp: 38078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 1.3 | 49.9 | 109.9# |
| 77 | 4.9 | 339.9 | 399.9# |

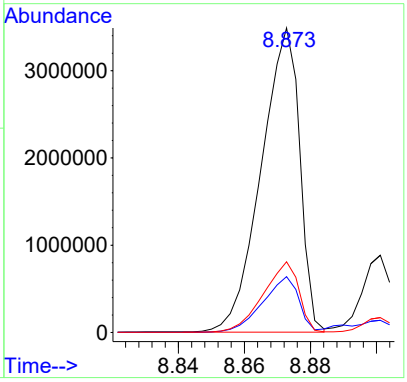


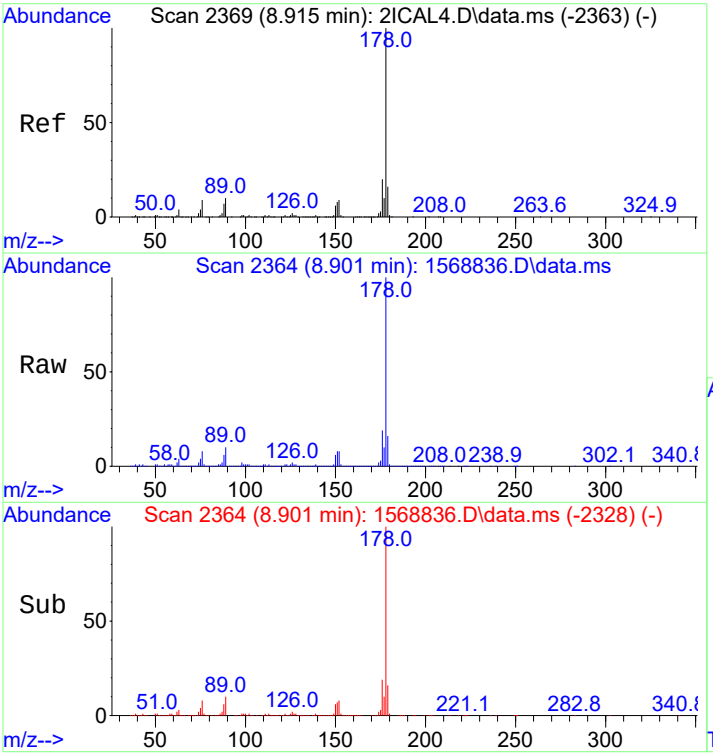




#70
Phenanthrene
Concen: 83.77 ug/mL
RT: 8.873 min Scan# 2354
Delta R.T. 0.006 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:178 Resp: 2822215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 18.3 | 0.0 | 45.9 |
| 176 | 23.2 | 0.0 | 50.4 |

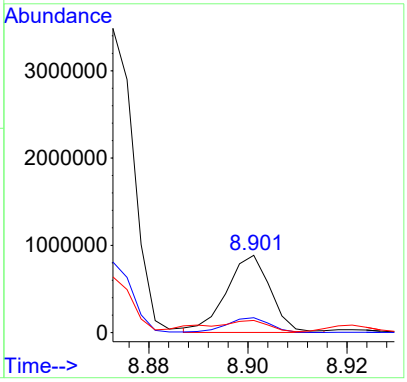


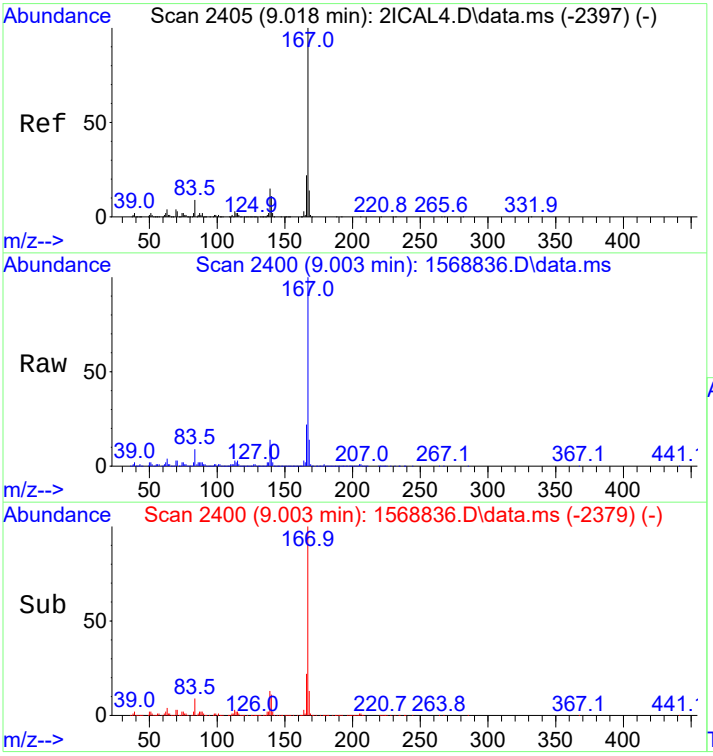



#71
Anthracene
Concen: 15.92 ug/mL
RT: 8.901 min Scan# 2364
Delta R.T. 0.003 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:178 Resp: 545853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 0.0 | 49.5 |
| 179 | 10.8 | 0.0 | 45.9 |

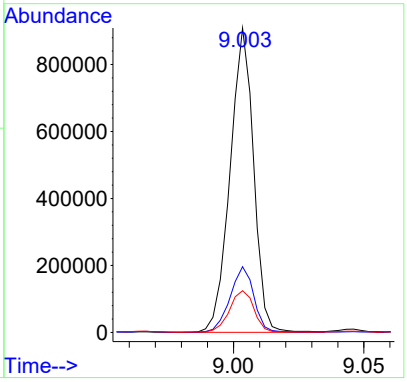


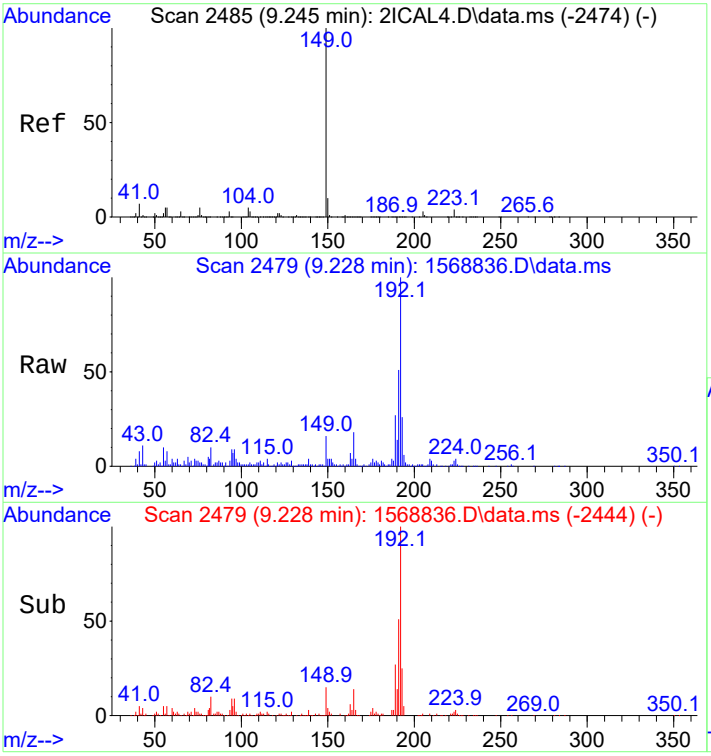




#72
Carbazole
Concen: 19.53 ug/mL
RT: 9.003 min Scan# 2400
Delta R.T. 0.000 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:167 Resp: 570166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.5 | 0.0 | 52.1 |
| 139 | 13.7 | 0.0 | 44.7 |

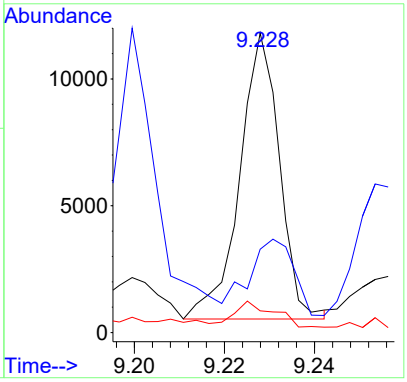


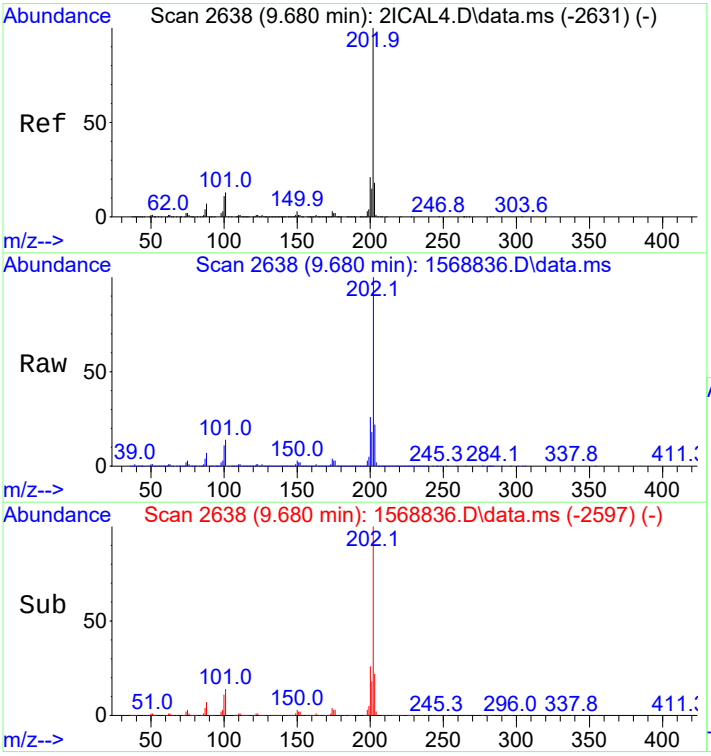



#73
Dinbtylphthal
Concen: 0.17 ug/mL
RT: 9.228 min Scan# 2479
Delta R.T. 0.000 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:149 Resp: 6936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 23.2 | 0.0 | 39.7 |
| 104 | 5.7 | 0.0 | 35.4 |

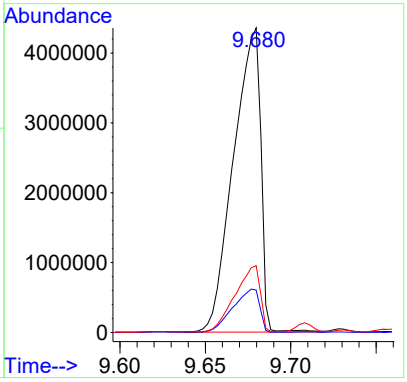


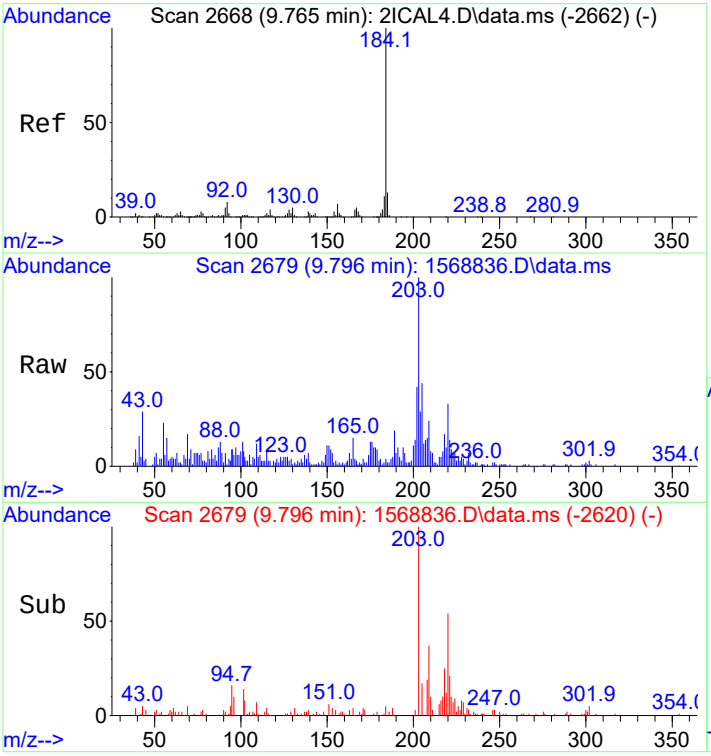




#74
Fluoranthene
Concen: 135.78 ug/mL
RT: 9.680 min Scan# 2638
Delta R.T. 0.017 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:202 Resp: 4830264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.9 | 0.0 | 43.0 |
| 203 | 21.8 | 0.0 | 48.2 |

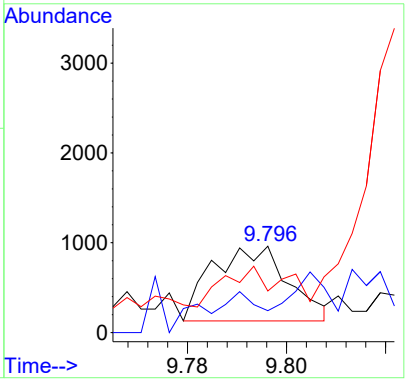


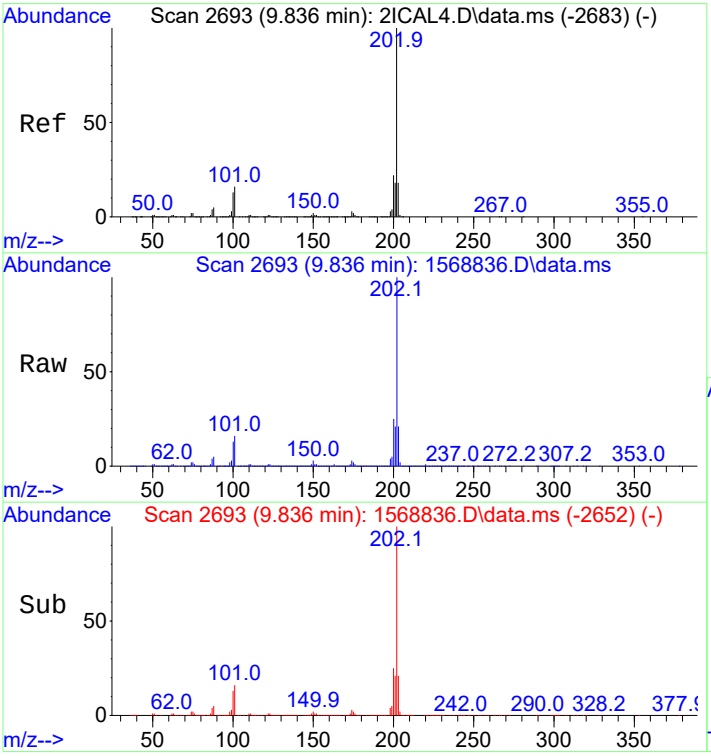



#76
Benzidine
Concen: Below Cal
RT: 9.796 min Scan# 2679
Delta R.T. 0.048 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:184 Resp: 884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 0.0 | 0.0 | 38.2 |
| 185 | 0.0 | 0.0 | 43.3 |

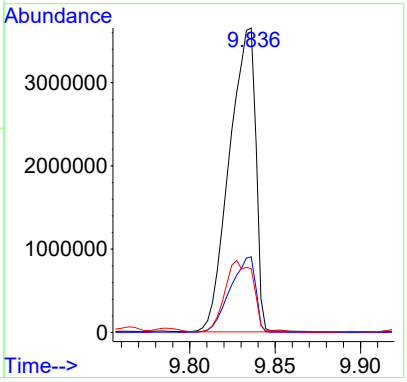


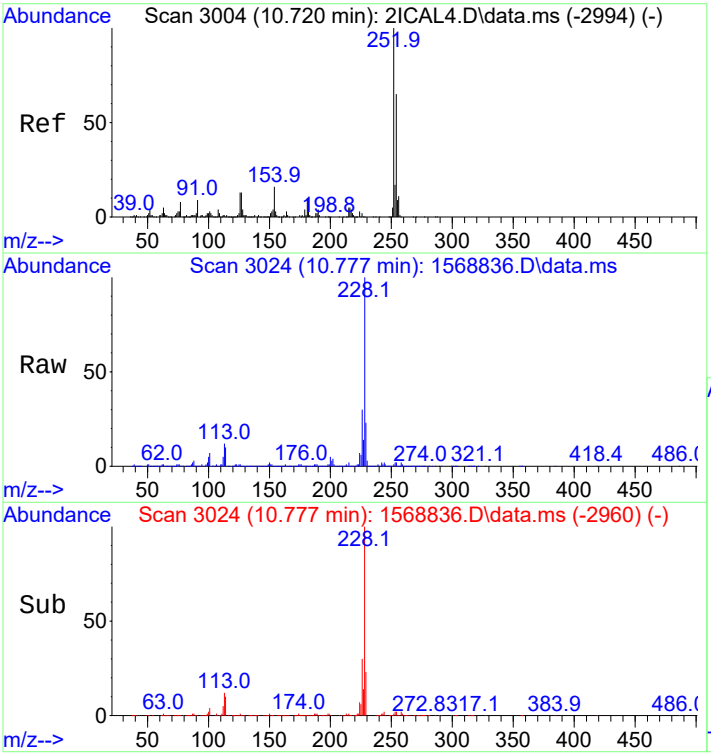




#77
Pyrene
Concen: 115.36 ug/mL
RT: 9.836 min Scan# 2693
Delta R.T. 0.017 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:202 Resp: 3918315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 24.9 | 0.0 | 52.2 |
| 203 | 20.9 | 0.0 | 48.2 |

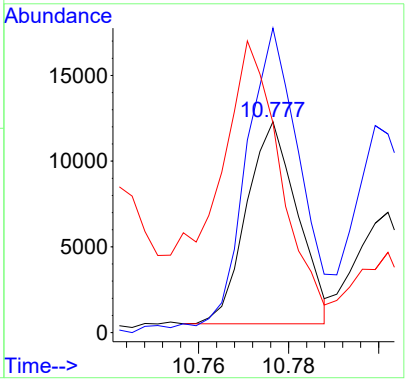


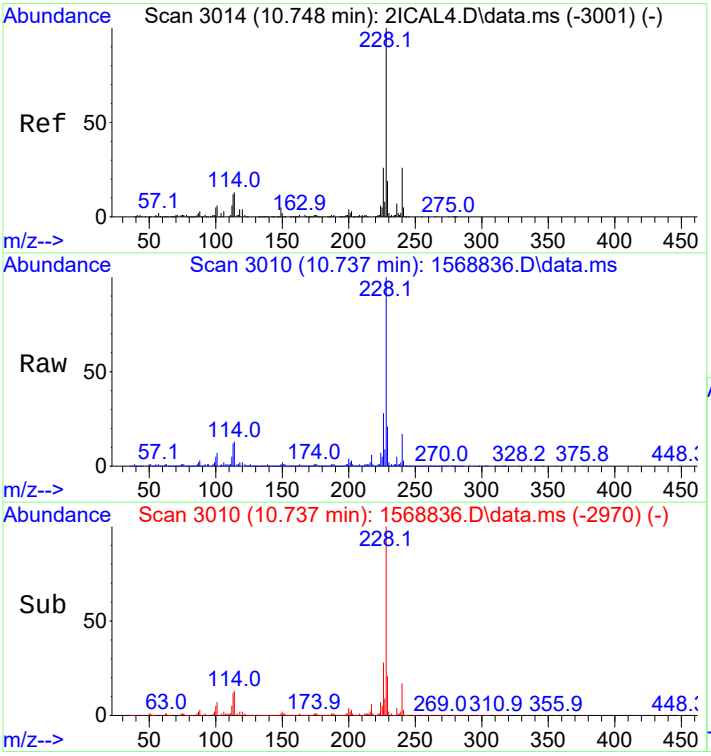



#81
33Diclbnzidin
Concen: 1.09 ug/mL
RT: 10.777 min Scan# 3024
Delta R.T. 0.082 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:252 Resp: 9285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 146.3 | 34.6 | 94.6# |
| 126 | 90.2 | 0.0 | 42.6# |

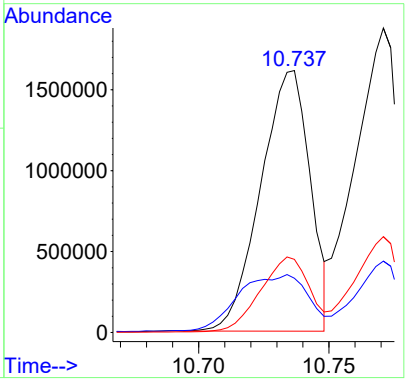


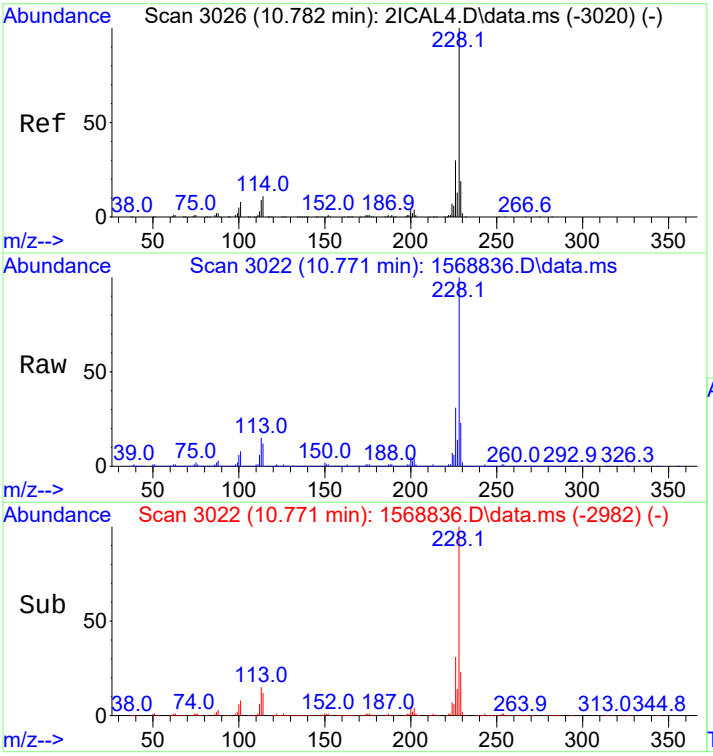




#82
B[a]anthracen
Concen: 66.03 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. 0.014 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:228 Resp: 2125834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.1 | 0.0 | 49.4 |
| 226 | 27.8 | 0.0 | 56.5 |

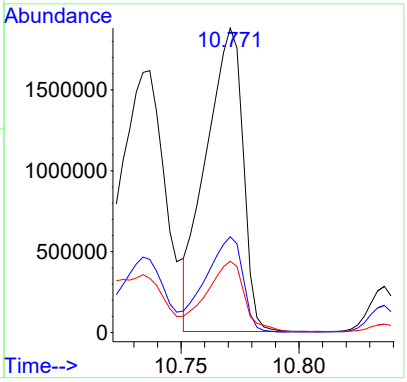


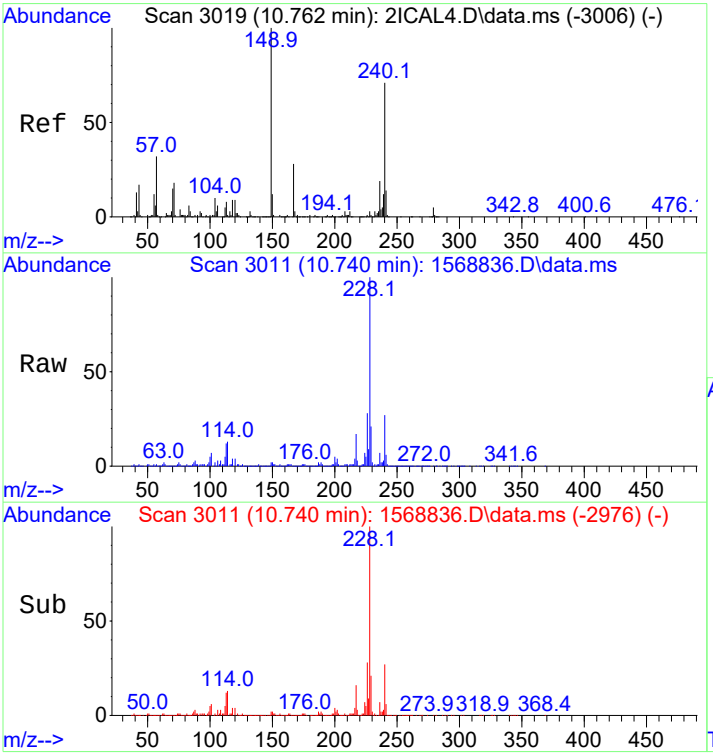



#83
Chrysene
Concen: 67.90 ug/mL
RT: 10.771 min Scan# 3022
Delta R.T. 0.014 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:228 Resp: 2050005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.4 | 0.0 | 59.9 |
| 229 | 23.2 | 0.0 | 49.5 |

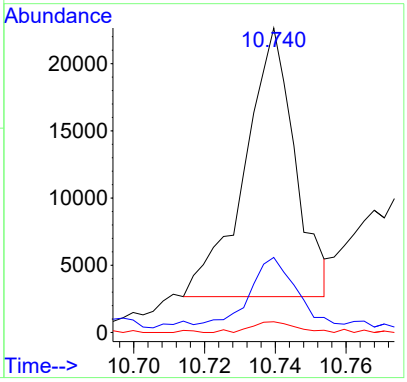


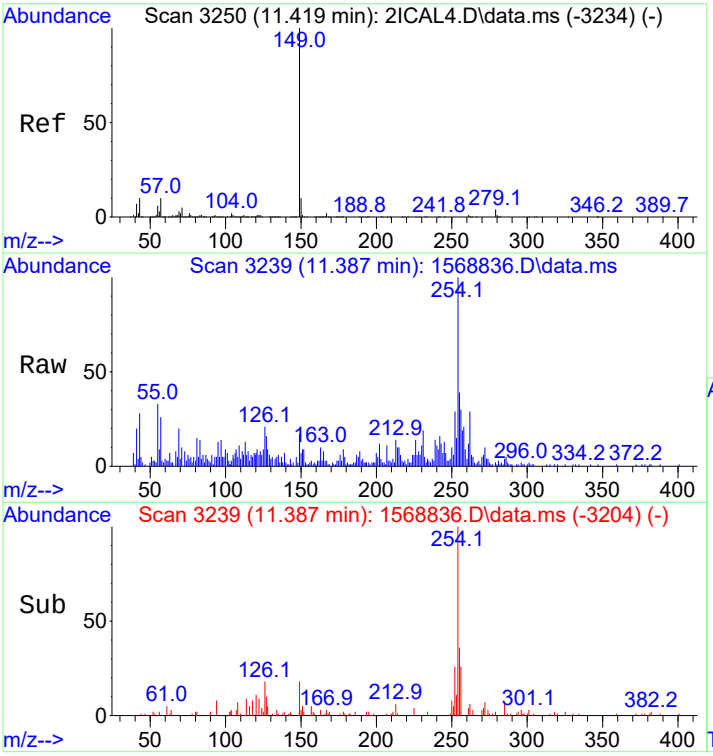




#84
bis2Ethlhxlph
Concen: 0.81 ug/mL
RT: 10.740 min Scan# 3011
Delta R.T. 0.000 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:149 Resp: 19729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.7 | 0.0 | 57.9 |
| 279 | 3.2 | 0.0 | 34.9 |

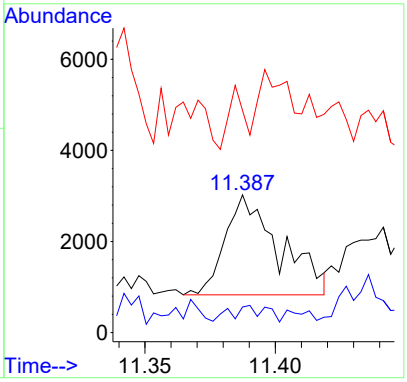


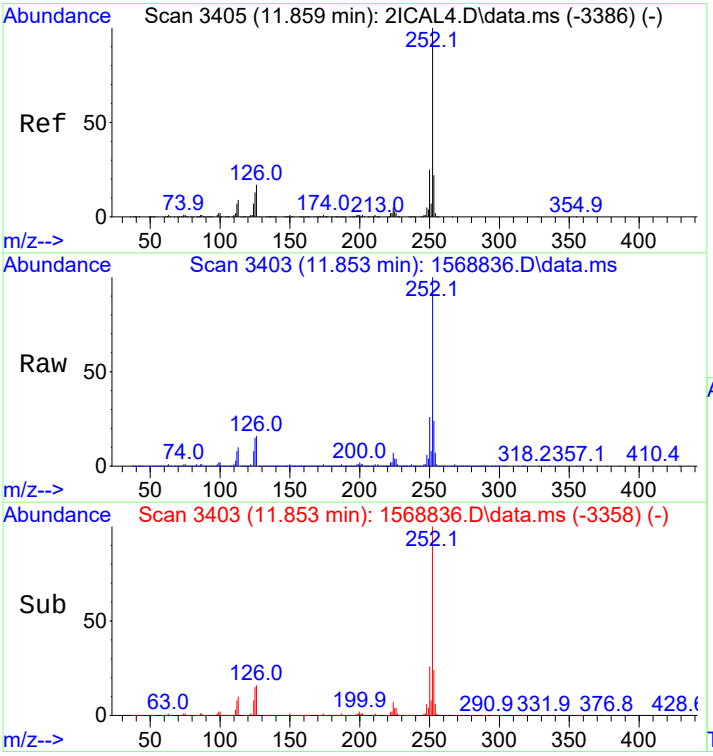



#85
Dinoctylphthl
Concen: 0.39 ug/mL
RT: 11.387 min Scan# 3239
Delta R.T. 0.000 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:149 Resp: 3178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 10.3 | 0.0 | 31.6 |
| 43 | 3.8 | 0.0 | 39.9 |

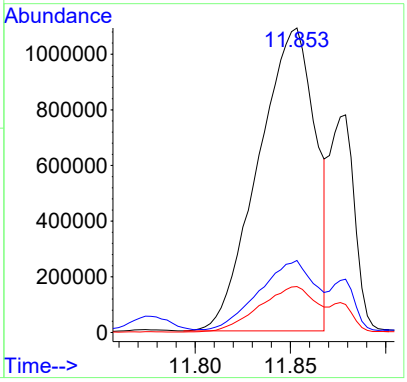


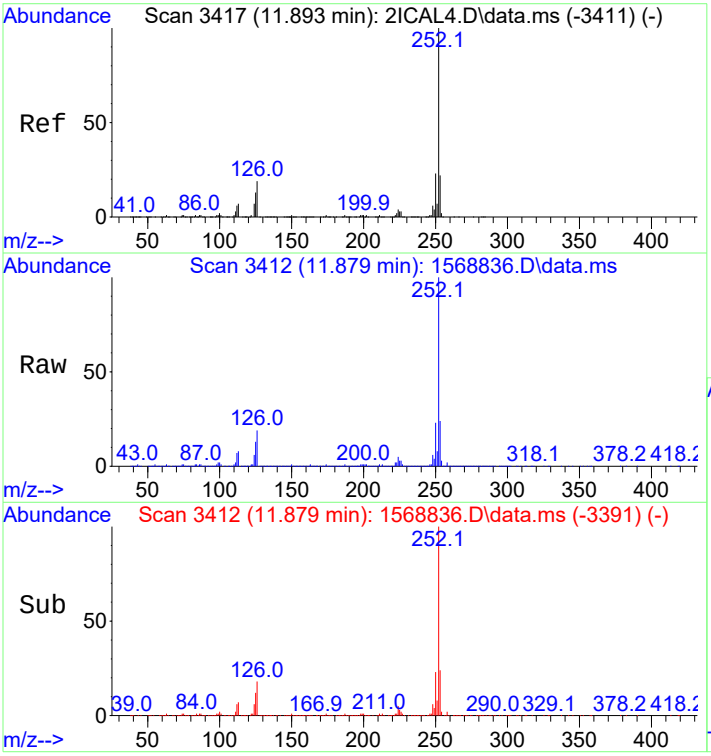




#87
B[b]fluoranth
Concen: 115.28 ug/mL
RT: 11.853 min Scan# 3403
Delta R.T. 0.028 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:252 Resp: 2263426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 0.0 | 52.3 |
| 125 | 15.0 | 0.0 | 43.2 |

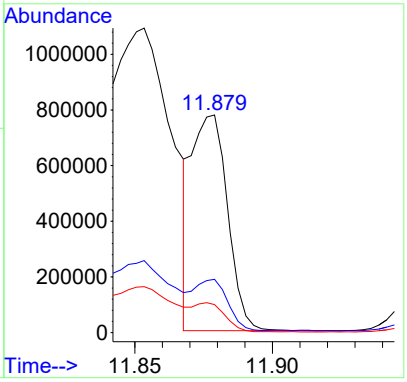


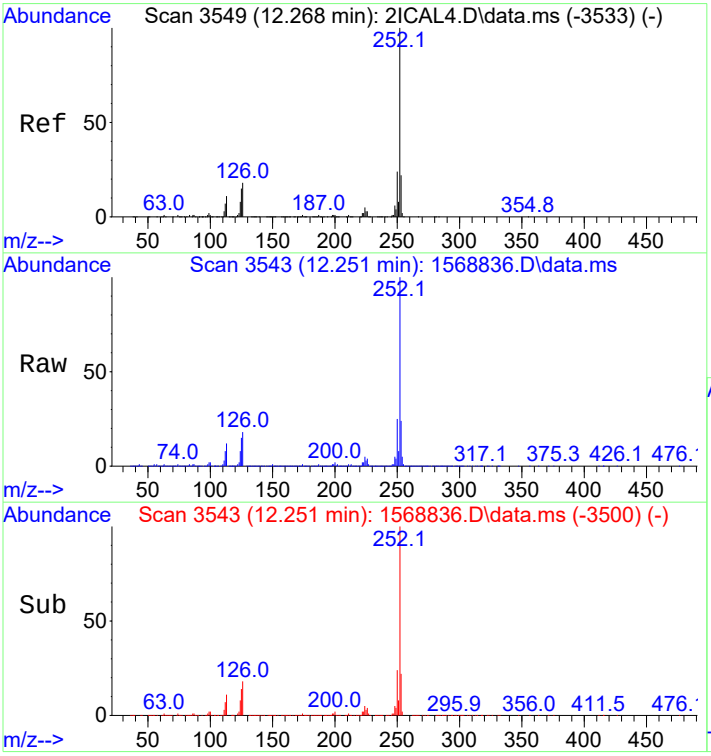



#88
B[k]fluoranth
Concen: 35.50 ug/mL
RT: 11.879 min Scan# 3412
Delta R.T. 0.020 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:252 Resp: 698315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.8 | 0.0 | 52.0 |
| 125 | 12.6 | 0.0 | 43.3 |

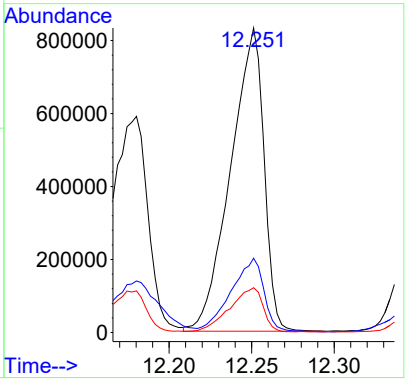


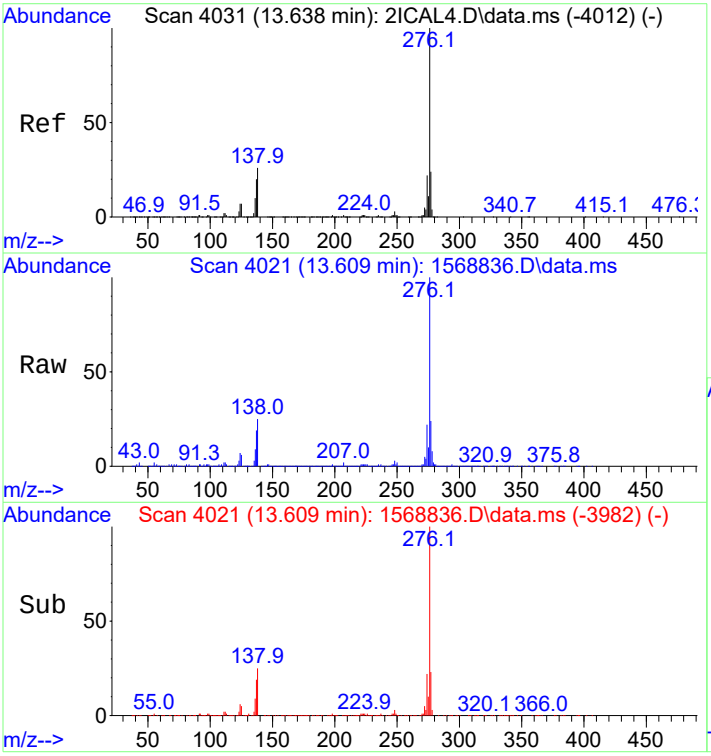




#89
Benz[a]pyrene
Concen: 64.66 ug/mL
RT: 12.251 min Scan# 3543
Delta R.T. 0.023 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:252 Resp: 1167568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.2 | 0.0 | 52.3 |
| 125 | 14.6 | 0.0 | 45.1 |

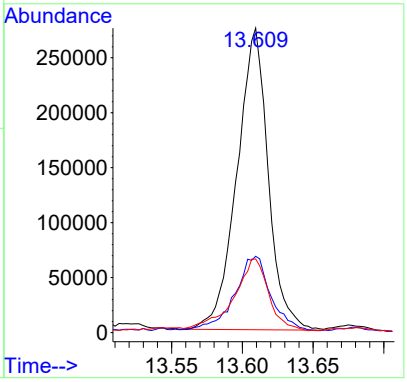


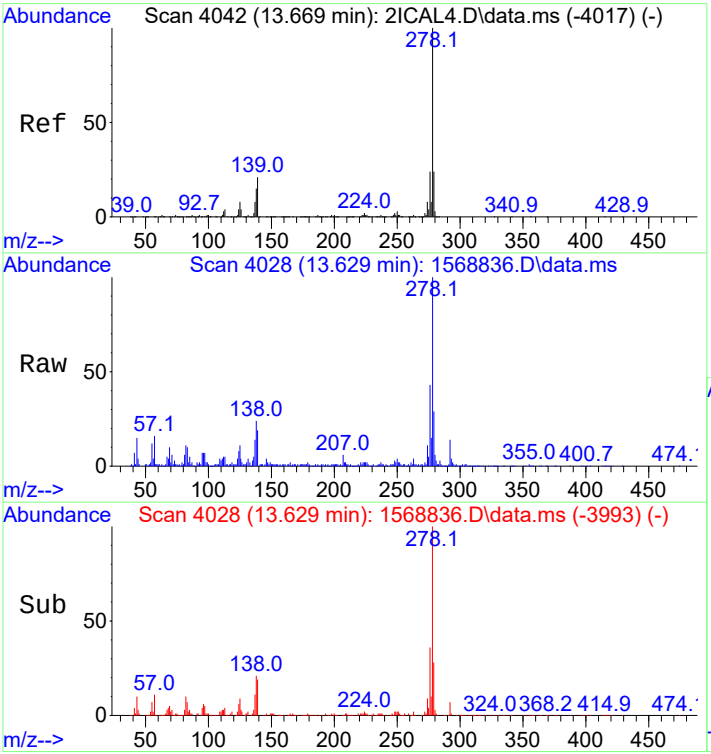



#90
Indeno-pyrene
Concen: 21.18 ug/mL
RT: 13.609 min Scan# 4021
Delta R.T. 0.011 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:276 Resp: 423013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.5 | 0.0 | 55.5 |
| 277 | 23.5 | 0.0 | 54.0 |

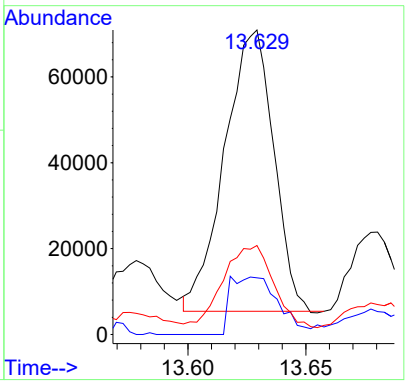


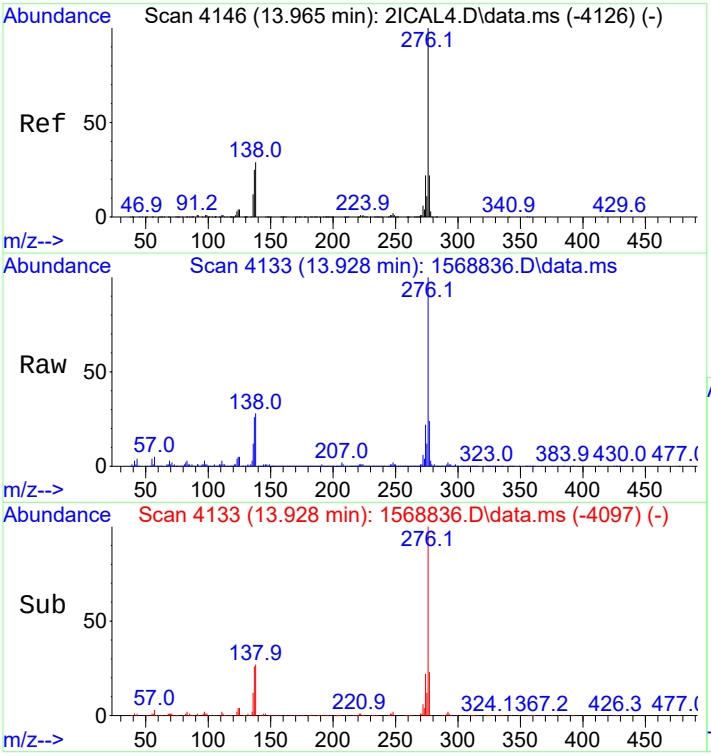




#91
Dib[ah]anthr
Concen: 5.80 ug/mL
RT: 13.629 min Scan# 4028
Delta R.T. 0.000 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:278 Resp: 94657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.1 | 0.0 | 50.9 |
| 279 | 28.4 | 0.0 | 54.4 |

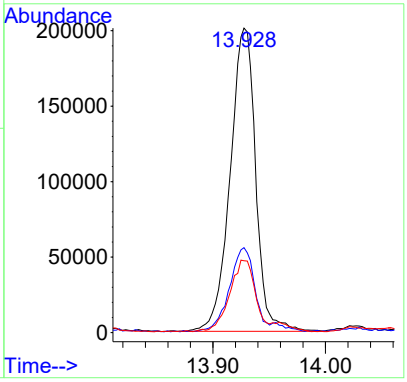





#92
B[ghi]perylen
Concen: 20.33 ug/mL
RT: 13.928 min Scan# 4133
Delta R.T. 0.003 min
Lab File: 1568836.D
Acq: 10 Apr 2025 20:24

Tgt Ion:276 Resp: 318061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.5 | 0.0 | 59.0 |
| 277 | 23.4 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568843.D Vial: 33
Acq On : 10 Apr 2025 21:10 Operator: ALD
Sample : 290730,1568843, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 21:27:30 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.326 | 152 | 180876 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.020 | 136 | 870444 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 489707 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.853 | 188 | 719305 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.742 | 240 | 570220 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.311 | 264 | 355809 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.105 | 112 | 295944 | 67.96 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 67.96% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 403871 | 77.16 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 77.16% | | | |
| 22) SURRNitrbenzened5 | 5.011 | 82 | 162869 | 68.67 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 68.67% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 475676 | 81.42 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 81.42% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 130082 | 99.24 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 99.24% | | | |
| 78) SURRTerphenyl-d14 | 9.924 | 244 | 581403 | 104.56 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 104.56% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.269 | 74 | 405 | 0.0578 | ug/mL# | 1 |
| 3) Pyridine | 2.607 | 79 | 5561 | 0.4444 | ug/mL | 82 |
| 14) bis2clispreth | 4.630 | 45 | 3743 | 0.1800 | ug/mL | 69 |
| 20) 3&4Methylphenol | 4.838 | 107 | 1253 | 0.1034 | ug/mL | 75 |
| 24) Isophorone | 5.395 | 82 | 2028 | 0.0840 | ug/mL | 65 |
| 26) 24Dimthpheno | 5.673 | 122 | 3031 | 0.2591 | ug/mL# | 7 |
| 30) Benzoic acid | 5.673 | 122 | 3526 | 3.4142 | ug/mL | 84 |
| 31) Naphthalene | 6.045 | 128 | 66810 | 1.6643 | ug/mL | 97 |
| 32) 4-Cl-aniline | 6.043 | 127 | 7054 | 0.4503 | ug/mL# | 26 |
| 37) 2Methylnaphth | 6.841 | 142 | 25493 | 1.0507 | ug/mL | 96 |
| 38) 1Methylnaphth | 6.938 | 142 | 20246 | 0.8069 | ug/mL | 95 |
| 46) 2Nitroaniline | 7.432 | 65 | 1693 | 0.4943 | ug/mL# | 9 |
| 47) Acnaphthylene | 7.674 | 152 | 23258 | 0.5868 | ug/mL | 97 |
| 50) Acenaphthene | 7.824 | 154 | 222637 | 9.4520 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.784 | 138 | 1273 | 0.4192 | ug/mL# | 1 |
| 53) Dibenzofuran | 7.966 | 168 | 151218 | 4.4457 | ug/mL | 94 |
| 54) 24Dinitrotolu | 7.963 | 165 | 737 | 0.0857 | ug/mL# | 1 |
| 55) 4-Nitrophenol | 7.966 | 65 | 908 | 1.4363 | ug/mL# | 1 |
| 58) Fluorene | 8.236 | 166 | 194661 | 7.4862 | ug/mL | 99 |
| 60) Diethylphthal | 8.160 | 149 | 1140 | 0.0396 | ug/mL | 75 |
| 61) 4Nitroaniline | 8.236 | 138 | 2300 | 0.6953 | ug/mL# | 49 |
| 65) Ntrsdiphlam&Diphlam | 8.358 | 169 | 1044 | 0.0563 | ug/mL# | 24 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 38055 | 5.7545 | ug/mL# | 1 |
| 70) Phenanthrene | 8.873 | 178 | 2784673 | 79.4618 | ug/mL | 95 |
| 71) Anthracene | 8.901 | 178 | 609731 | 17.1010 | ug/mL | 100 |
| 72) Carbazole | 9.003 | 167 | 576636 | 18.9927 | ug/mL | 99 |
| 73) Dinbtylphthal | 9.228 | 149 | 6775 | 0.1595 | ug/mL | 76 |
| 74) Fluoranthene | 9.677 | 202 | 4259762 | 115.1130 | ug/mL | 95 |
| 76) Benzidine | 9.793 | 184 | 681 | Below Cal | | 78 |
| 77) Pyrene | 9.833 | 202 | 3383926 | 93.4288 | ug/mL | 95 |
| 81) 33Diclbnzidin | 10.774 | 252 | 7534 | 0.7664 | ug/mL# | 1 |
| 82) B[a]anthracen | 10.734 | 228 | 1870010 | 54.4707 | ug/mL | 96 |
| 83) Chrysene | 10.771 | 228 | 1780647 | 55.3049 | ug/mL | 97 |
| 84) bis2Ethlhxlph | 10.740 | 149 | 21016 | 0.8044 | ug/mL | 91 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568843.D Vial: 33
Acq On : 10 Apr 2025 21:10 Operator: ALD
Sample : 290730,1568843, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 21:27:30 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

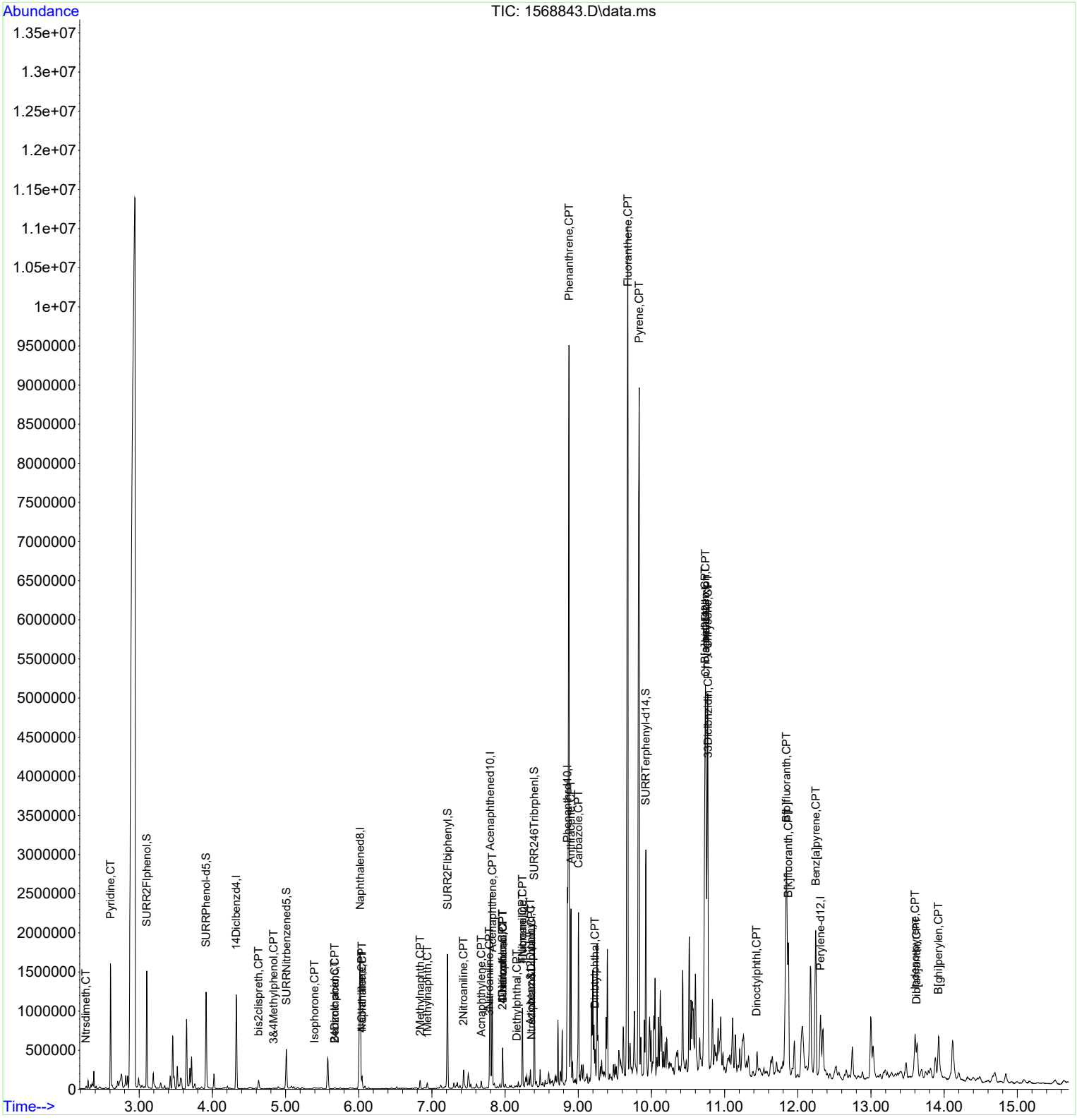
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 85) Dinoctylphthl | 11.436 | 149 | 3093 | 0.3842 ug/mL | 73 |
| 87) B[b]fluoranth | 11.845 | 252 | 1778388 | 94.3551 ug/mL | 98 |
| 88) B[k]fluoranth | 11.870 | 252 | 585181 | 30.9883 ug/mL | 97 |
| 89) Benz[a]pyrene | 12.246 | 252 | 922744 | 53.2354 ug/mL | 99 |
| 90) Indeno-pyrene | 13.604 | 276 | 304959 | 15.9070 ug/mL | 98 |
| 91) Dib[ah]anthr | 13.624 | 278 | 69942 | 4.4631 ug/mL | 92 |
| 92) B[ghi]perylen | 13.922 | 276 | 224709 | 14.9604 ug/mL | 95 |

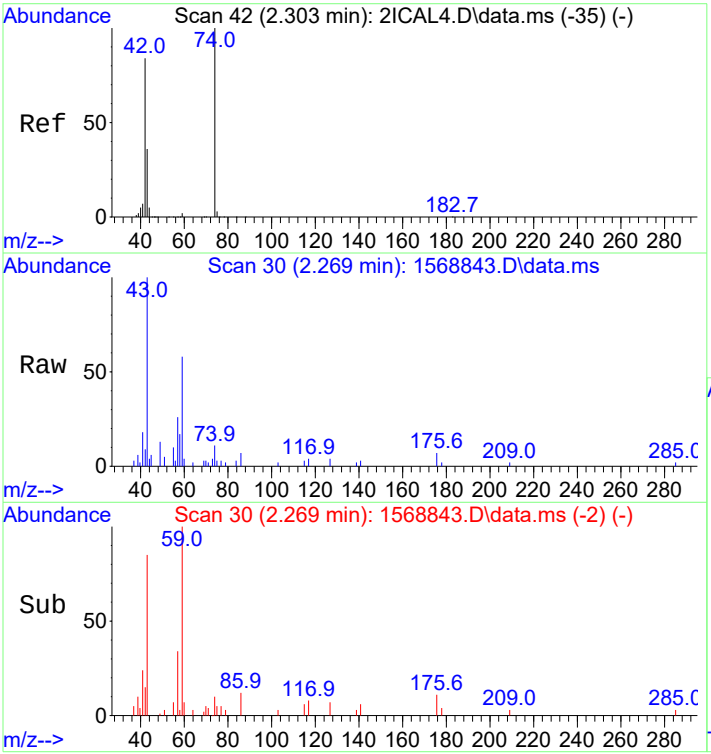
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568843.D Vial: 33
Acq On : 10 Apr 2025 21:10 Operator: ALD
Sample : 290730,1568843, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 21:27:30 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

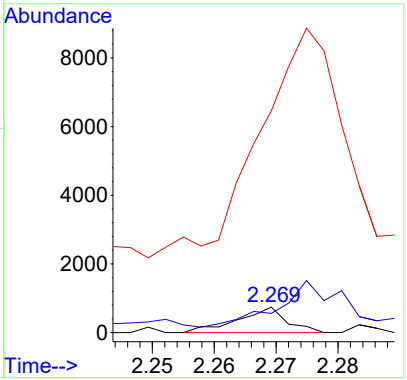


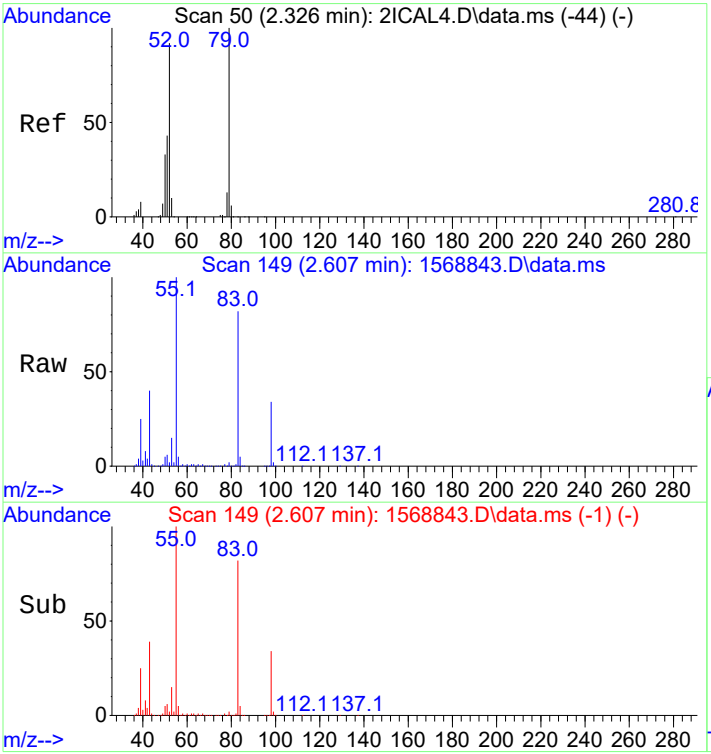



#2
Ntrsdimeth
Concen: 0.06 ug/mL
RT: 2.269 min Scan# 30
Delta R.T. -0.020 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion: 74 Resp: 405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 45.4 | 53.9 | 113.9# |
| 43 | 496.6 | 6.0 | 66.0# |

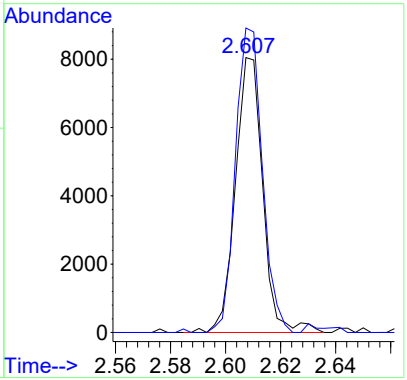


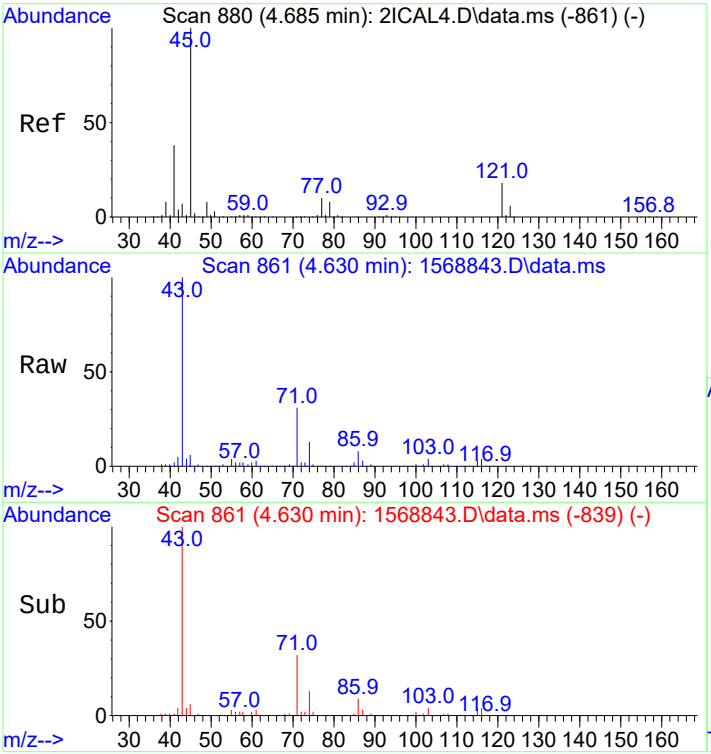




#3
Pyridine
Concen: 0.44 ug/mL
RT: 2.607 min Scan# 149
Delta R.T. 0.298 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion: 79 Resp: 5561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 109.4 | 62.5 | 122.5 |

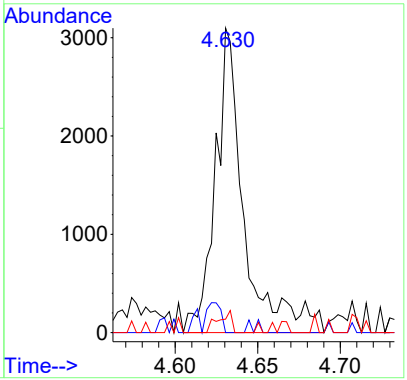


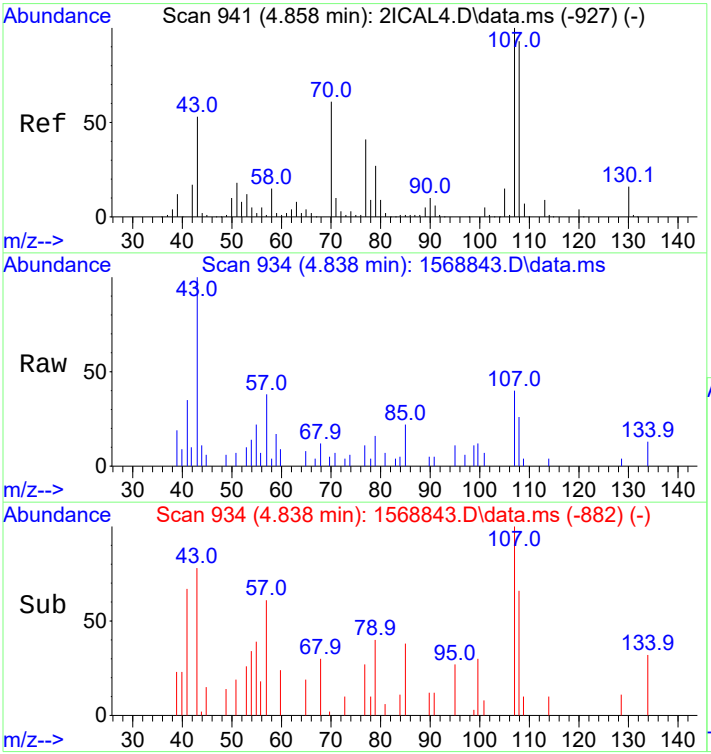



#14
bis2clispreth
Concen: 0.18 ug/mL
RT: 4.630 min Scan# 861
Delta R.T. -0.037 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion: 45 Resp: 3743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 0.0 | 0.0 | 47.5 |
| 77 | 4.4 | 0.0 | 40.1 |

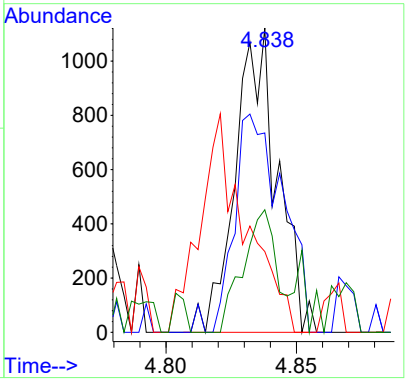


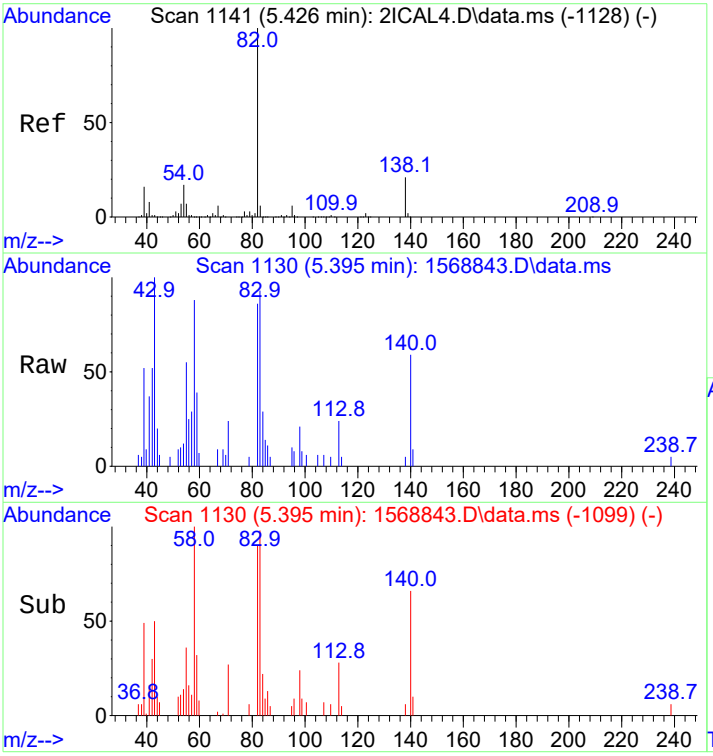




#20
3&4Methylphenol
Concen: 0.10 ug/mL
RT: 4.838 min Scan# 934
Delta R.T. -0.003 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:107 Resp: 1253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 75.8 | 63.3 | 123.3 |
| 77 | 16.2 | 11.4 | 71.4 |
| 79 | 40.3 | 0.0 | 56.9 |

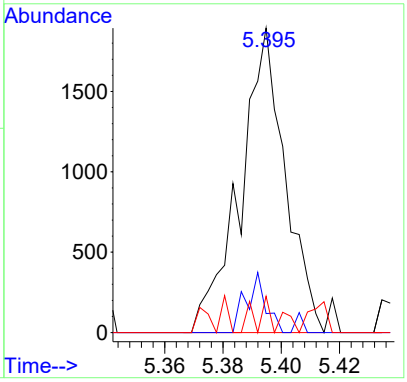


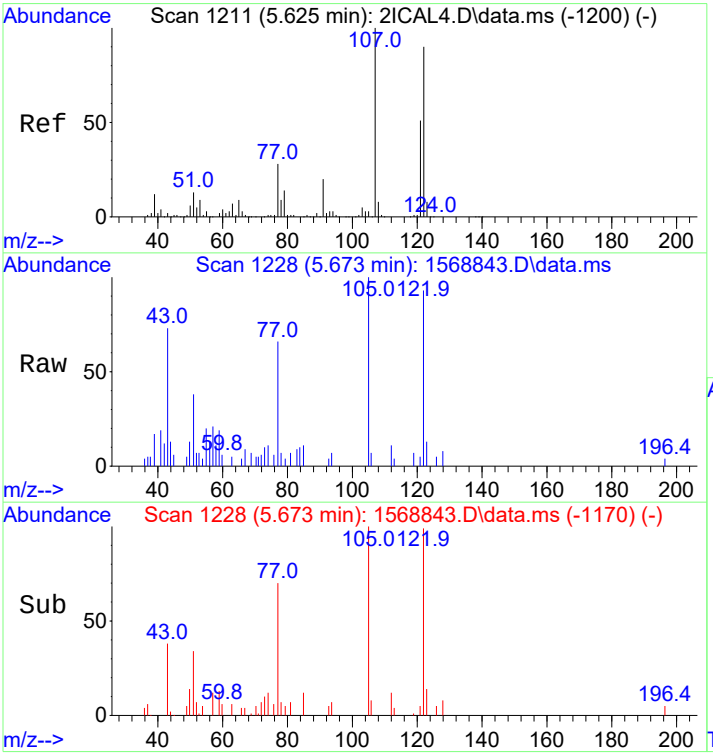



#24
Isophorone
Concen: 0.08 ug/mL
RT: 5.395 min Scan# 1130
Delta R.T. -0.011 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion: 82 Resp: 2028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 138 | 6.2 | 0.0 | 51.2 |
| 95 | 21.6 | 0.0 | 36.4 |

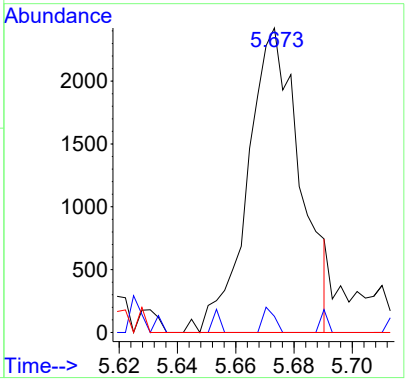


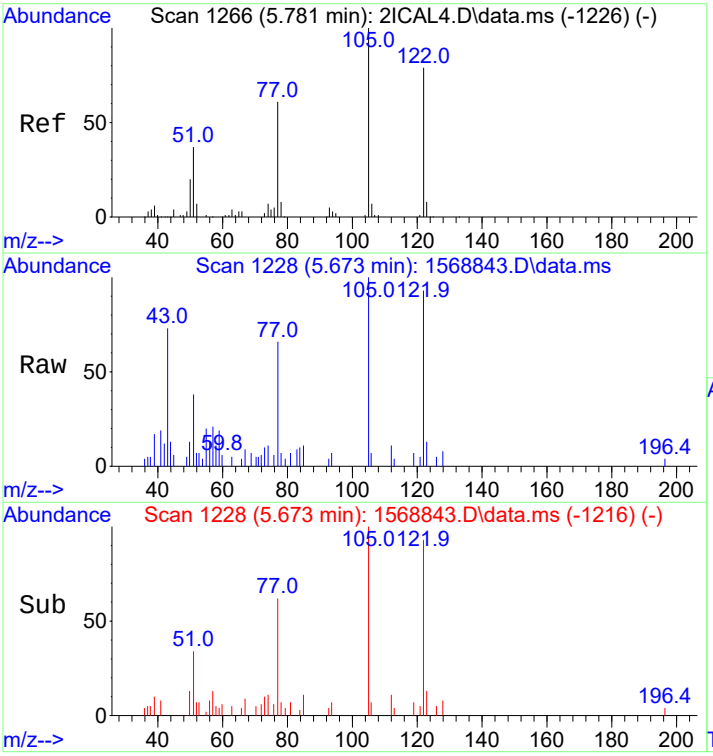




#26
24Dimthpheno
Concen: 0.26 ug/mL
RT: 5.673 min Scan# 1228
Delta R.T. 0.065 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:122 Resp: 3031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 5.3 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

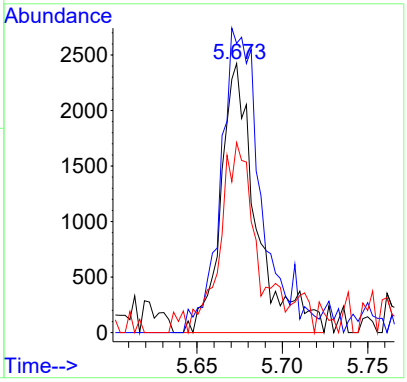


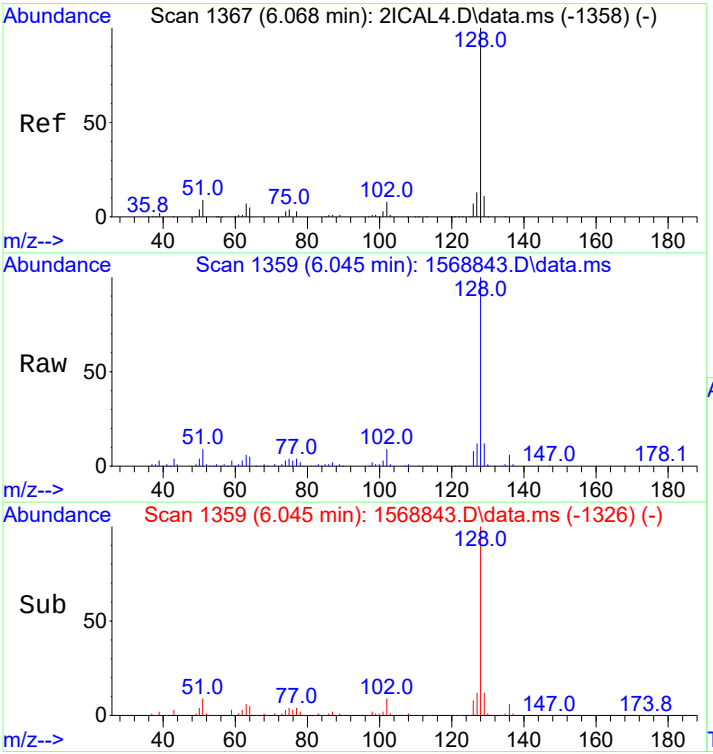



#30
Benzoic acid
Concen: 3.41 ug/mL
RT: 5.673 min Scan# 1228
Delta R.T. -0.097 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:122 Resp: 3526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 107.5 | 96.0 | 156.0 |
| 77 | 63.4 | 46.6 | 106.6 |

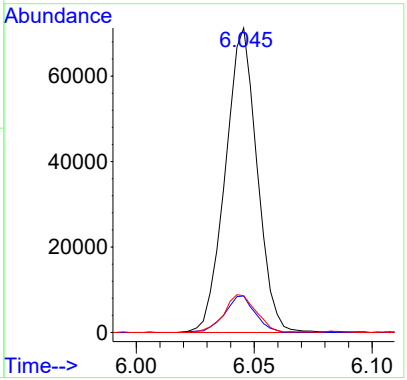


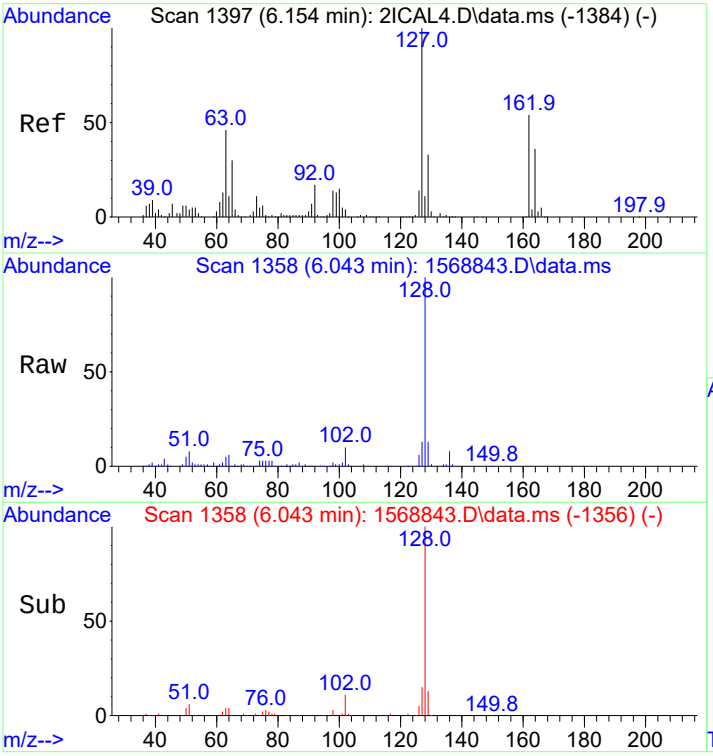




#31
Naphthalene
Concen: 1.66 ug/mL
RT: 6.045 min Scan# 1359
Delta R.T. -0.006 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:128 Resp: 66810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.0 | 0.0 | 41.0 |
| 127 | 12.1 | 0.0 | 43.3 |

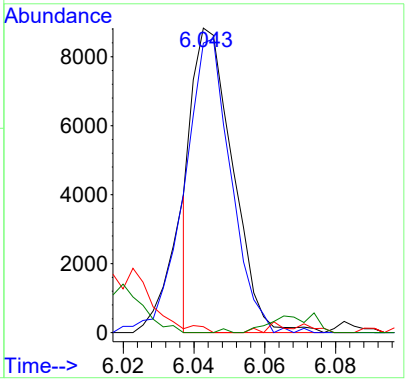


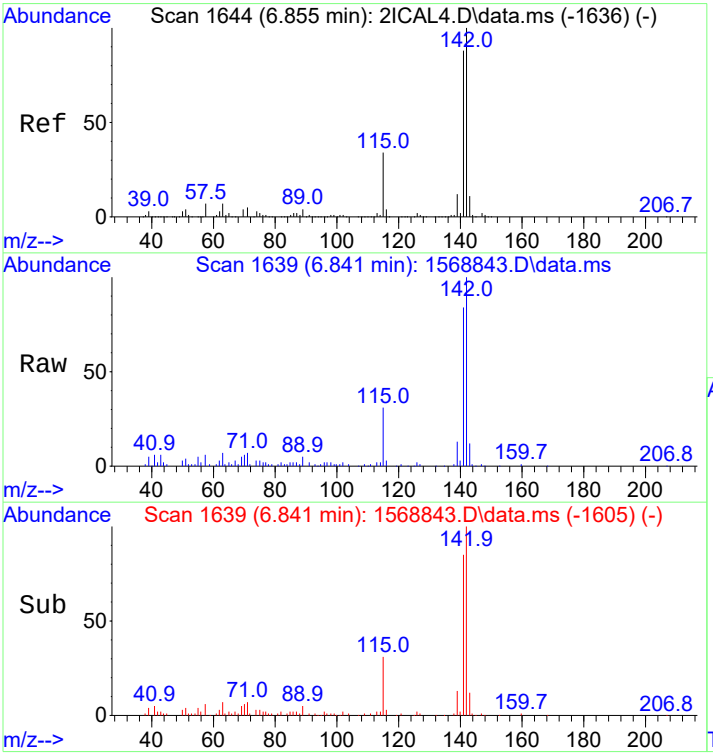



#32
4-Cl-aniline
Concen: 0.45 ug/mL
RT: 6.043 min Scan# 1358
Delta R.T. -0.094 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:127 Resp: 7054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 95.0 | 3.1 | 63.1# |
| 65 | 0.7 | 0.2 | 60.2 |
| 92 | 0.0 | 0.0 | 46.7 |

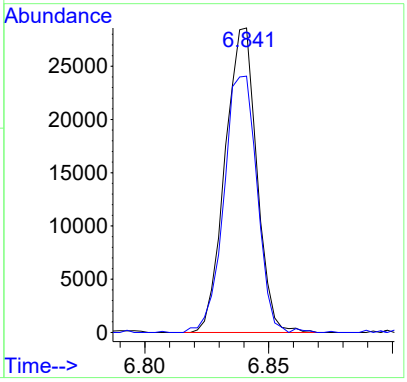


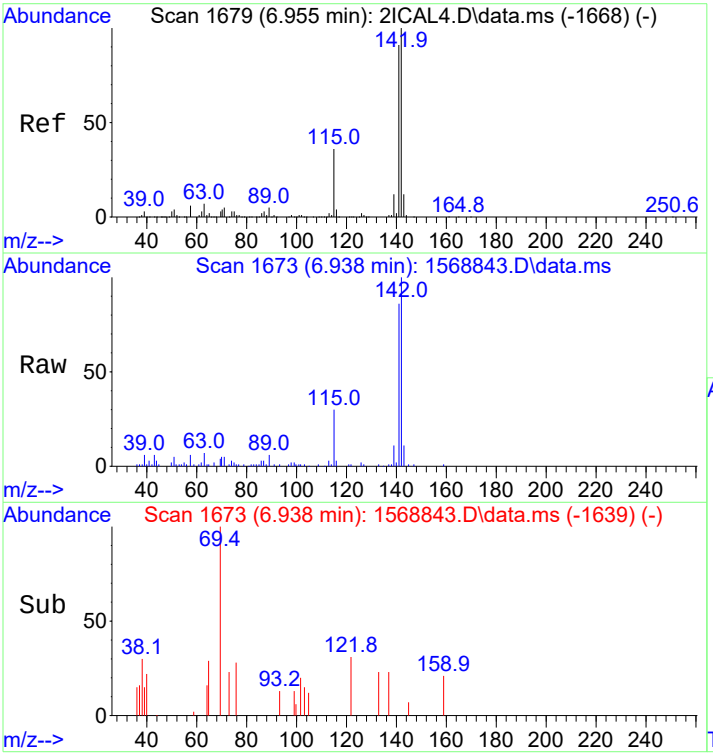




#37
2Methylnaphth
Concen: 1.05 ug/mL
RT: 6.841 min Scan# 1639
Delta R.T. -0.003 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:142 Resp: 25493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.2 | 58.0 | 118.0 |

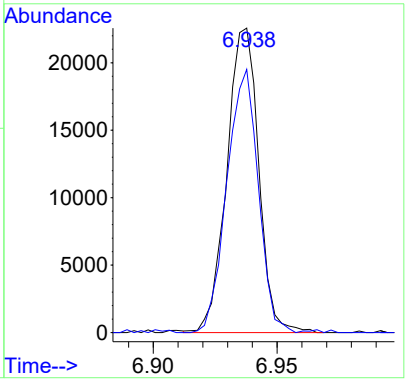


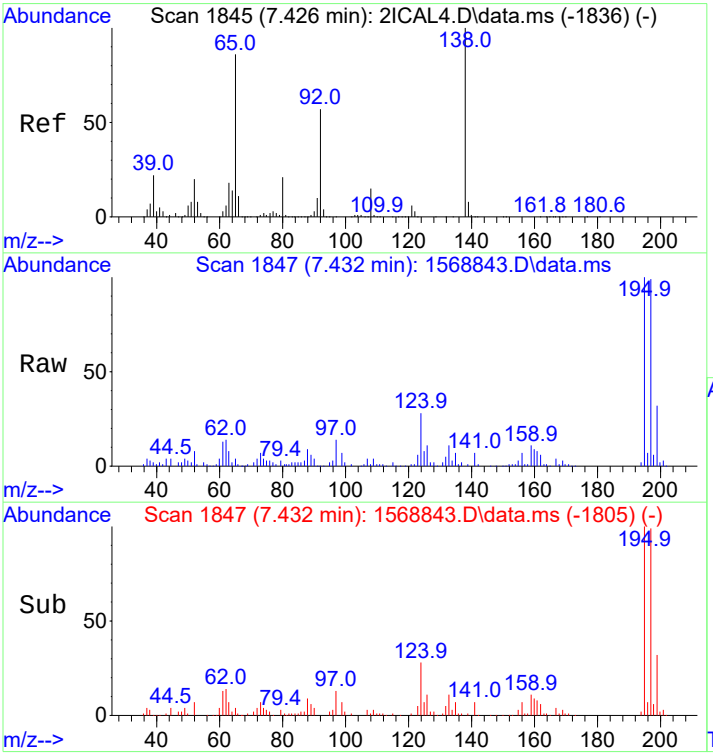



#38
1Methylnaphth
Concen: 0.81 ug/mL
RT: 6.938 min Scan# 1673
Delta R.T. -0.003 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:142 Resp: 20246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.4 | 60.7 | 120.7 |

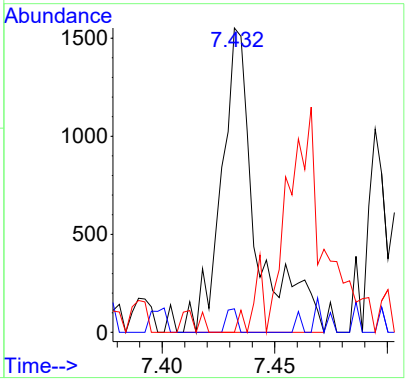


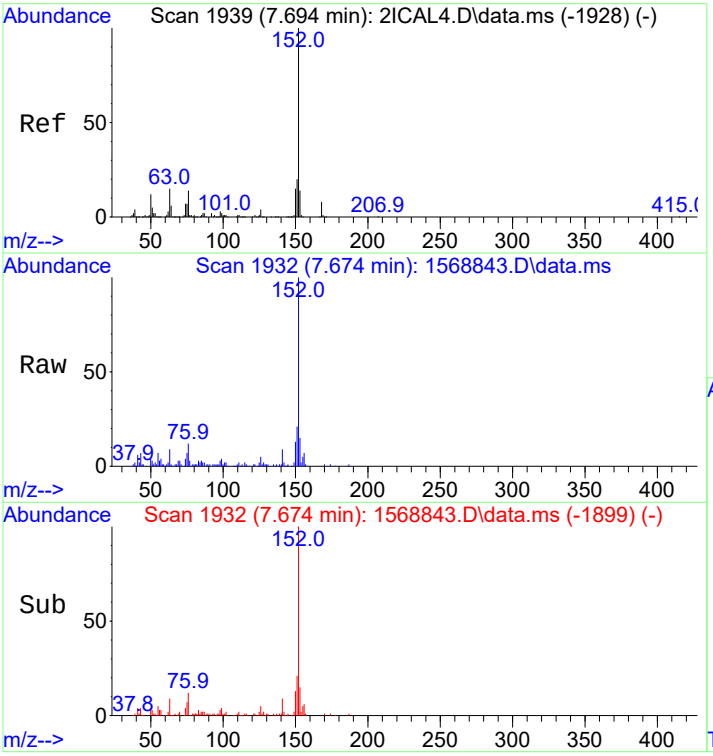




#46
2Nitroaniline
Concen: 0.49 ug/mL
RT: 7.432 min Scan# 1847
Delta R.T. 0.020 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion: 65 Resp: 1693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 6.6 | 36.2 | 96.2# |
| 138 | 6.0 | 85.6 | 145.6# |

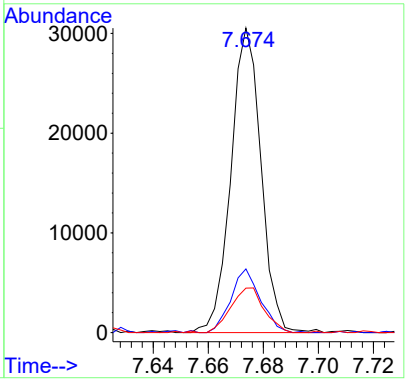


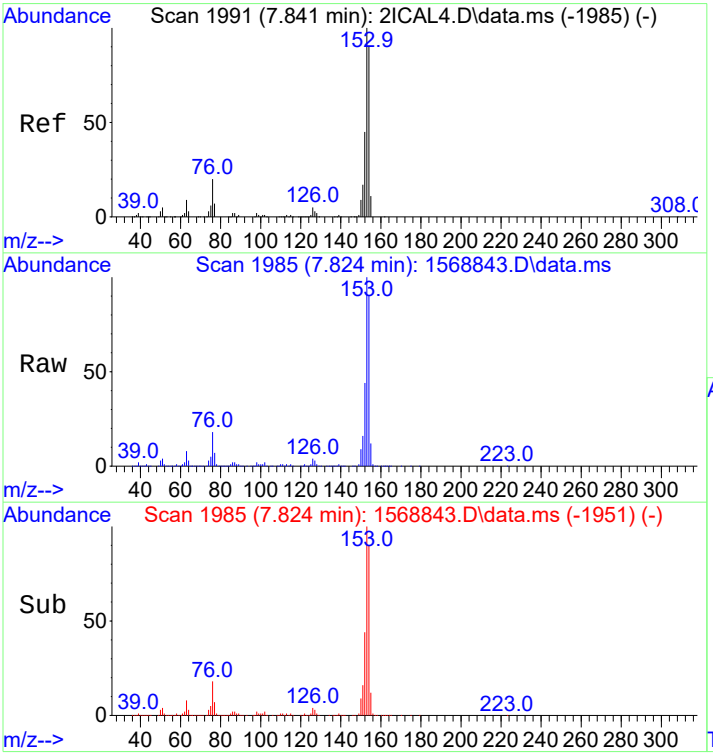



#47
Acnaphthylene
Concen: 0.59 ug/mL
RT: 7.674 min Scan# 1932
Delta R.T. -0.006 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:152 Resp: 23258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.9 | 0.0 | 50.3 |
| 153 | 17.0 | 0.0 | 44.4 |

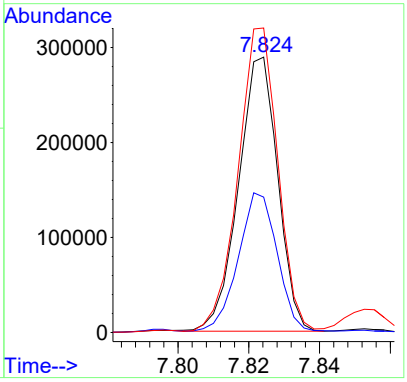


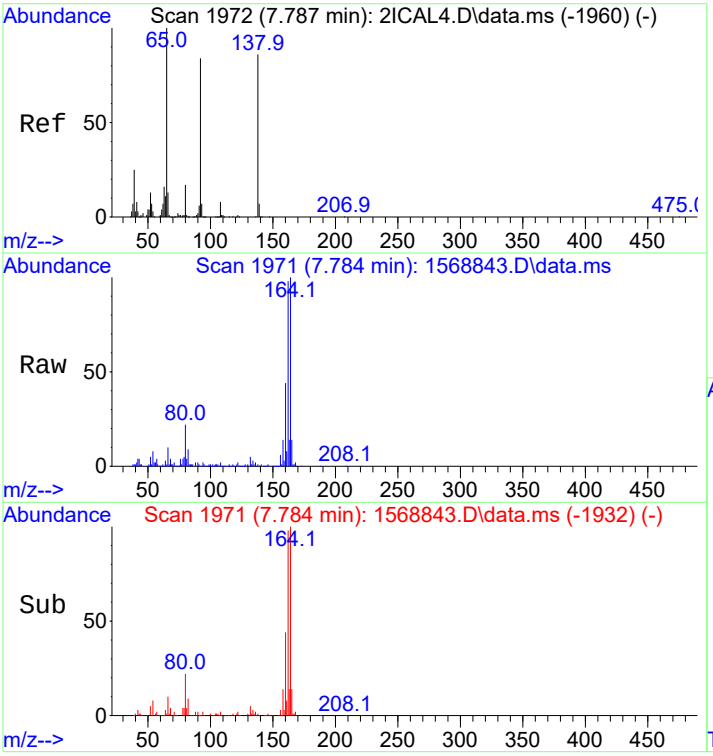




#50
Acenaphthene
Concen: 9.45 ug/mL
RT: 7.824 min Scan# 1985
Delta R.T. -0.003 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:154 Resp: 222637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 48.9 | 20.0 | 80.0 |
| 153 | 110.8 | 80.7 | 140.7 |

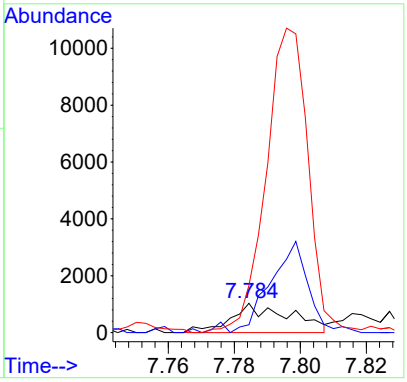


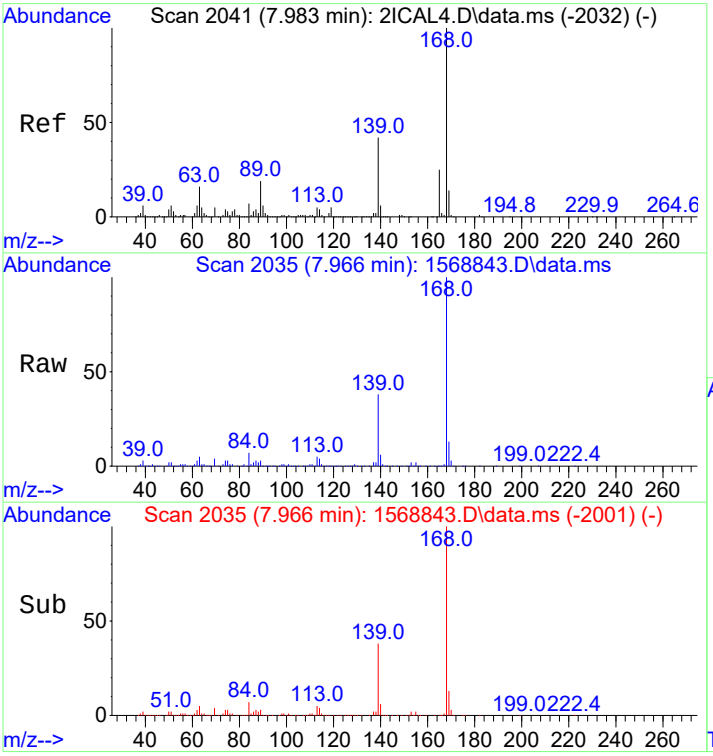



#51
3Nitroaniline
Concen: 0.42 ug/mL
RT: 7.784 min Scan# 1971
Delta R.T. 0.011 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:138 Resp: 1273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 9.1 | 67.7 | 127.7# |
| 108 | 150.1 | 0.0 | 38.9# |

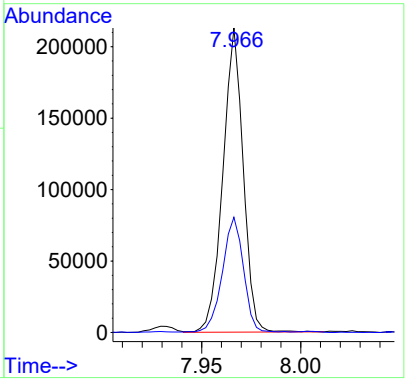


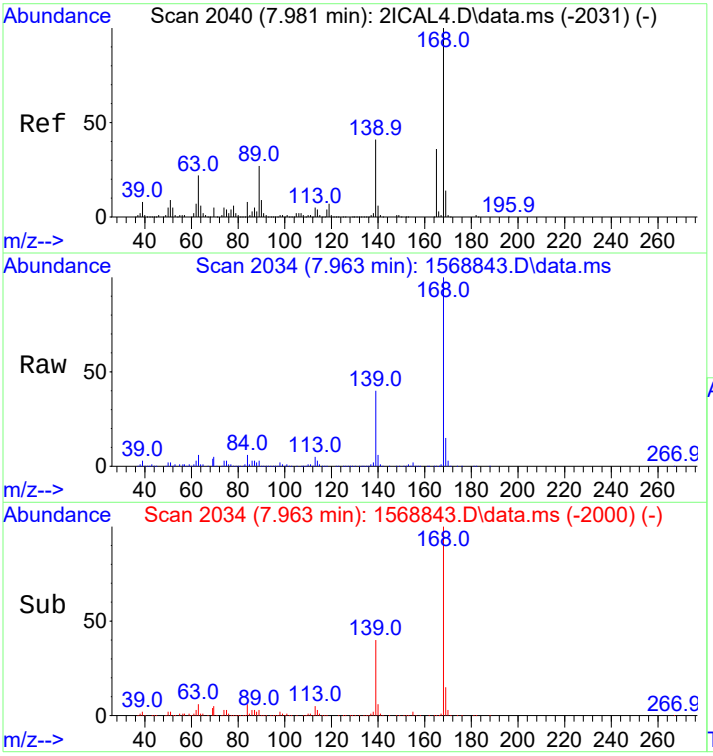




#53
Dibenzofuran
Concen: 4.45 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.003 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:168 Resp: 151218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 37.8 | 11.9 | 71.9 |

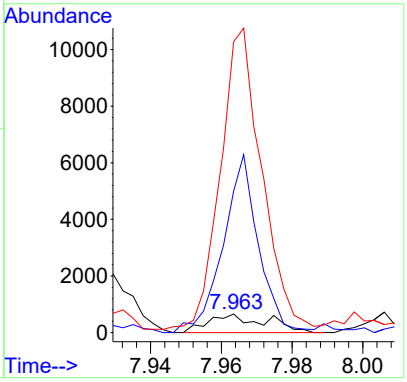


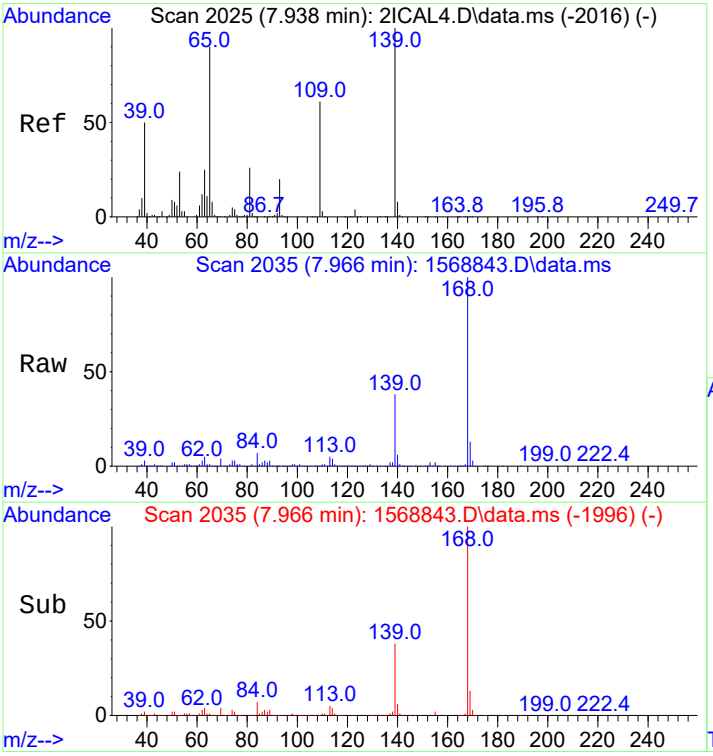



#54
24Dinitrotolu
Concen: 0.09 ug/mL
RT: 7.963 min Scan# 2034
Delta R.T. -0.003 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:165 Resp: 737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 711.2 | 46.1 | 106.1# |
| 63 | 1525.4 | 32.6 | 92.6# |

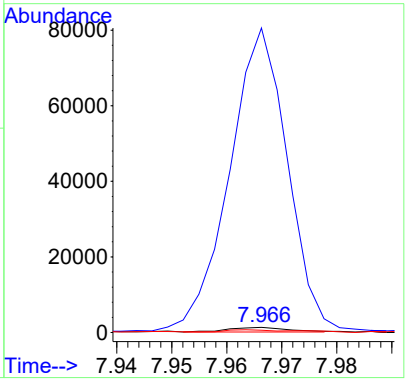


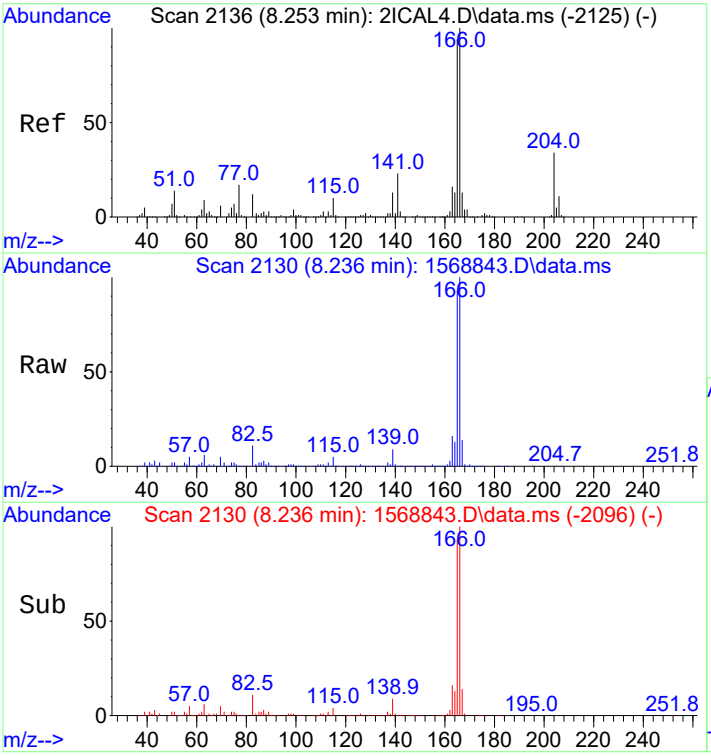




#55
4-Nitrophenol
Concen: 1.44 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. 0.045 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion: 65 Resp: 908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 6348.7 | 80.5 | 140.5# |
| 109 | 15.6 | 37.6 | 97.6# |

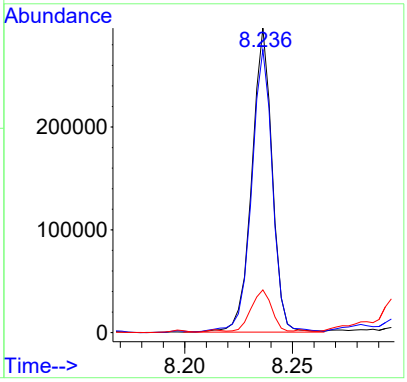


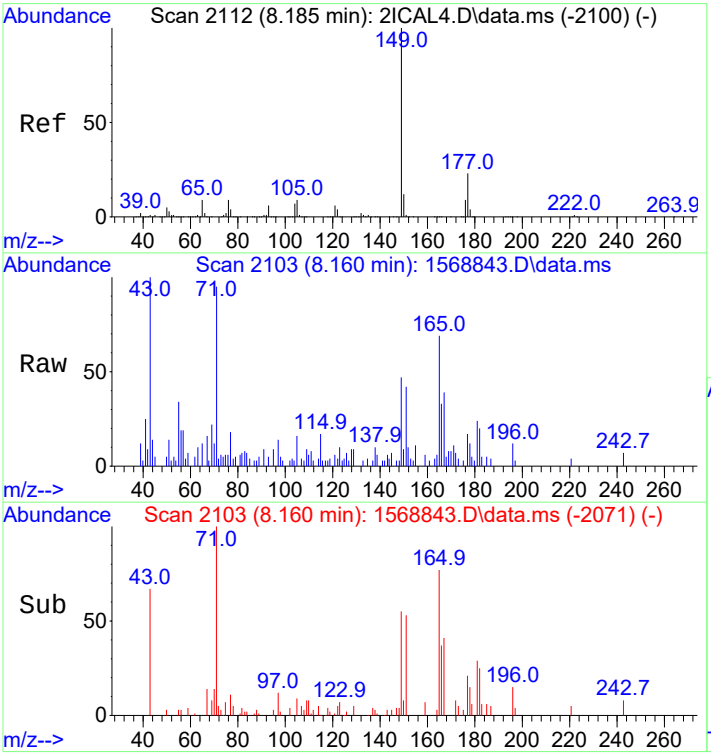



#58
Fluorene
Concen: 7.49 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:166 Resp: 194661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 92.6 | 63.6 | 123.6 |
| 167 | 13.4 | 0.0 | 43.3 |

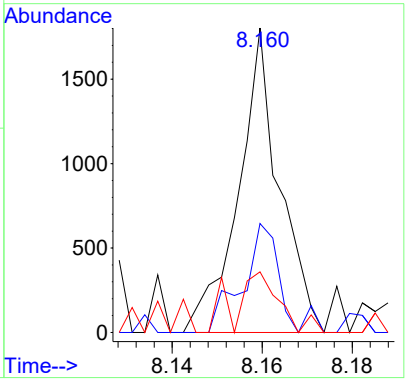


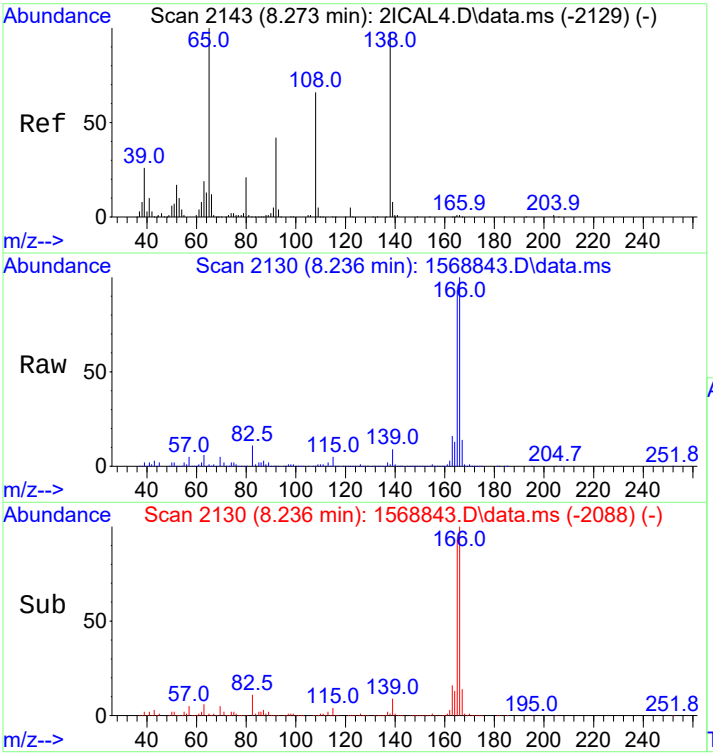




#60
Diethylphthal
Concen: 0.04 ug/mL
RT: 8.160 min Scan# 2103
Delta R.T. -0.009 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:149 Resp: 1140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 35.8 | 0.0 | 52.5 |
| 150 | 19.9 | 0.0 | 42.2 |

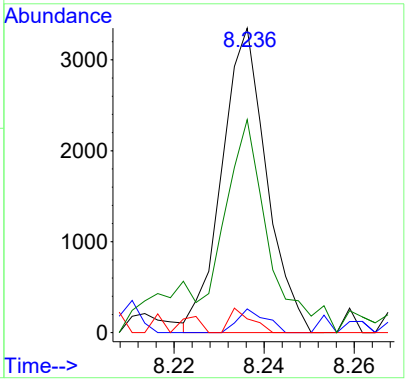


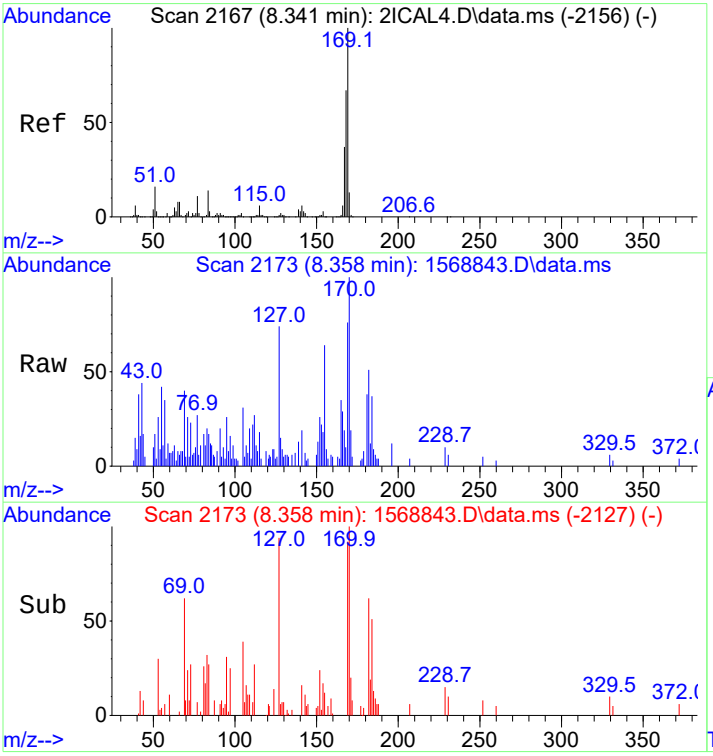



#61
4Nitroaniline
Concen: 0.70 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.020 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:138 Resp: 2300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 16.0 | 12.7 | 72.7 |
| 108 | 0.1 | 36.9 | 96.9# |
| 65 | 68.4 | 71.1 | 131.1# |

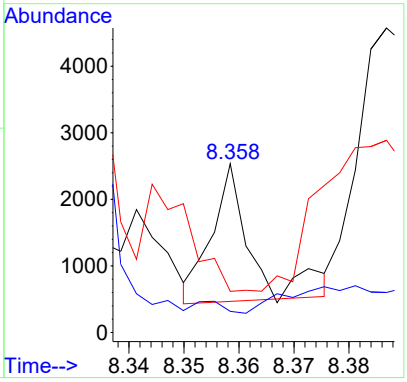


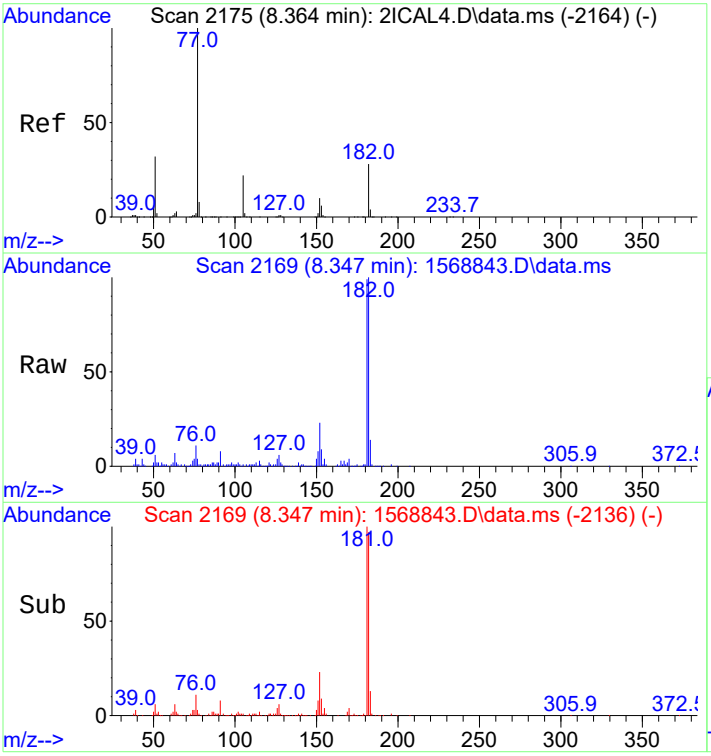




#65
Ntrsdiphlam&Diphlam
Concen: 0.06 ug/mL
RT: 8.358 min Scan# 2173
Delta R.T. 0.031 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:169 Resp: 1044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 0.0 | 37.2 | 97.2# |
| 167 | 0.0 | 6.9 | 66.9# |

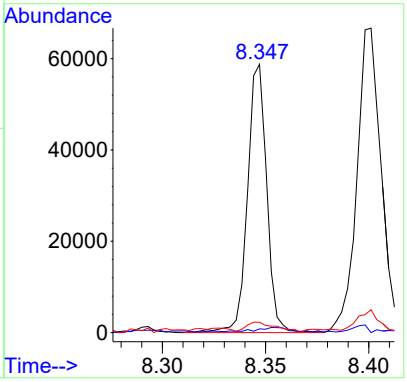


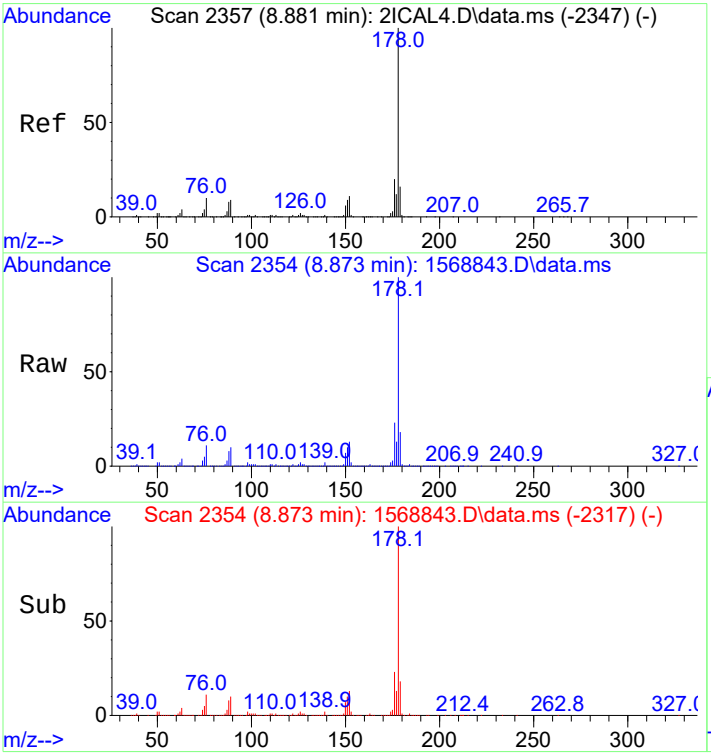



#66
Azobenz&12Diphlhyd
Concen: 5.75 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:182 Resp: 38055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 1.0 | 49.9 | 109.9# |
| 77 | 2.9 | 339.9 | 399.9# |

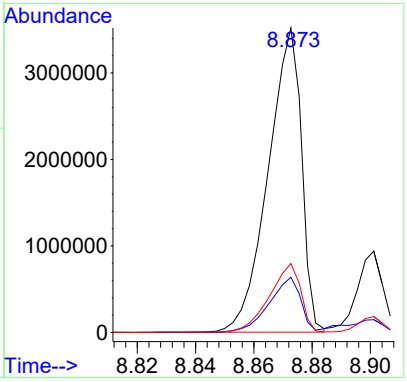


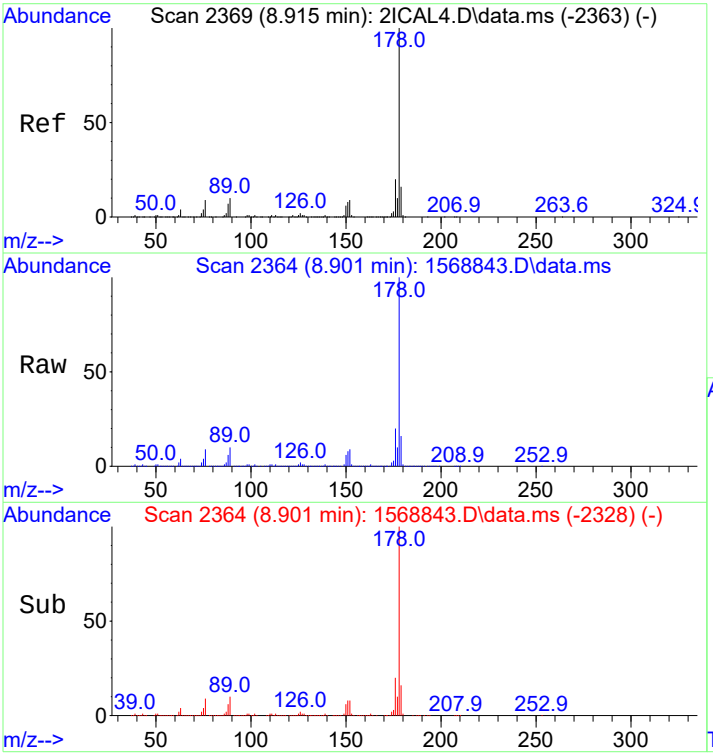




#70
Phenanthrene
Concen: 79.46 ug/mL
RT: 8.873 min Scan# 2354
Delta R.T. 0.006 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:178 Resp: 2784673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 18.1 | 0.0 | 45.9 |
| 176 | 22.6 | 0.0 | 50.4 |

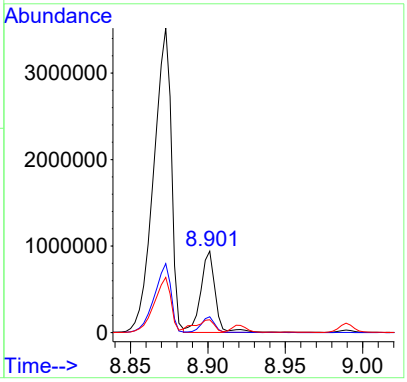


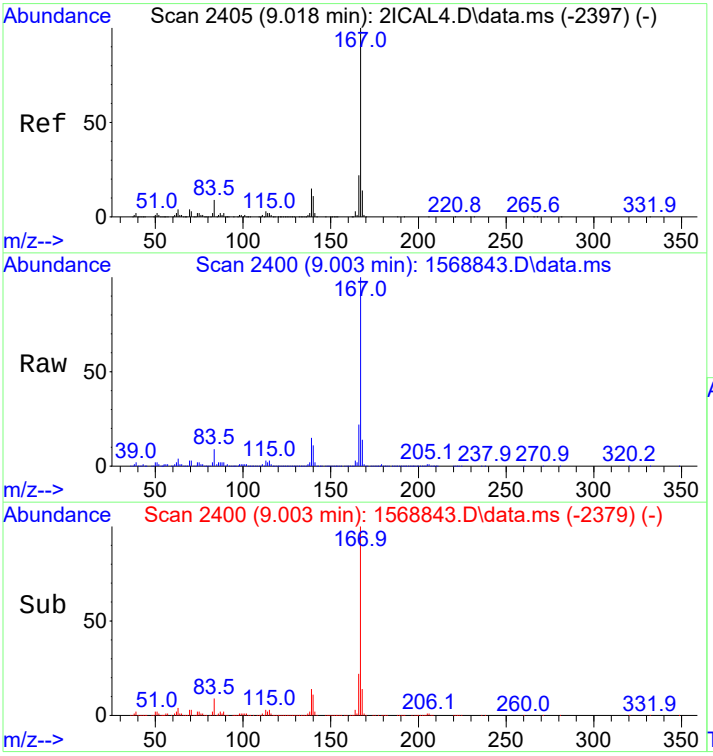



#71
Anthracene
Concen: 17.10 ug/mL
RT: 8.901 min Scan# 2364
Delta R.T. 0.003 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:178 Resp: 609731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 0.0 | 49.5 |
| 179 | 15.5 | 0.0 | 45.9 |

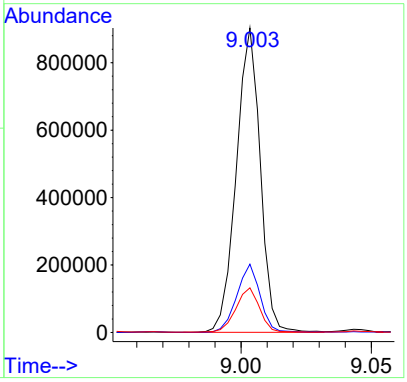


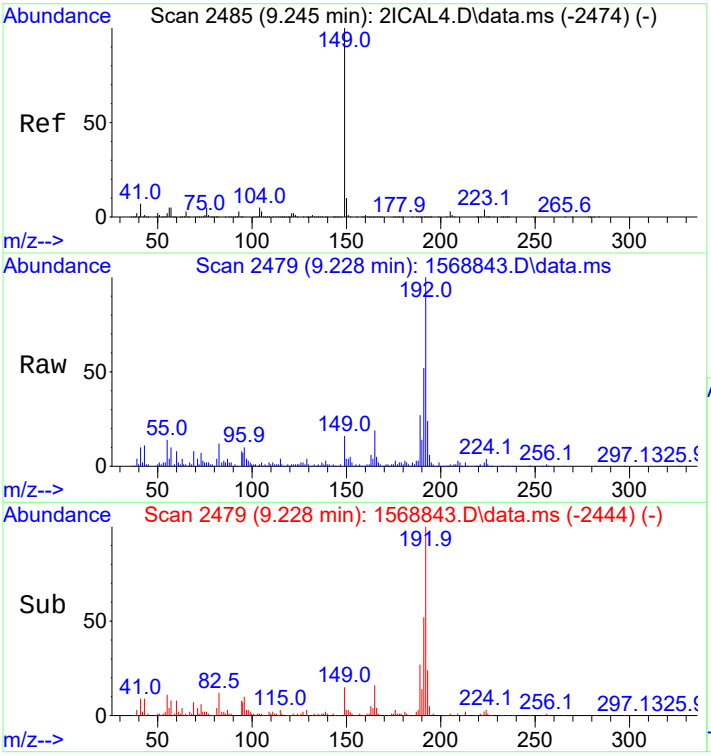




#72
Carbazole
Concen: 18.99 ug/mL
RT: 9.003 min Scan# 2400
Delta R.T. -0.000 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:167 Resp: 576636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.4 | 0.0 | 52.1 |
| 139 | 14.6 | 0.0 | 44.7 |

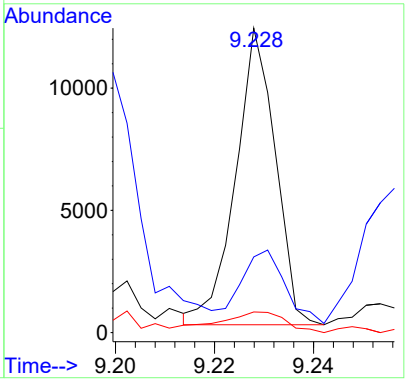


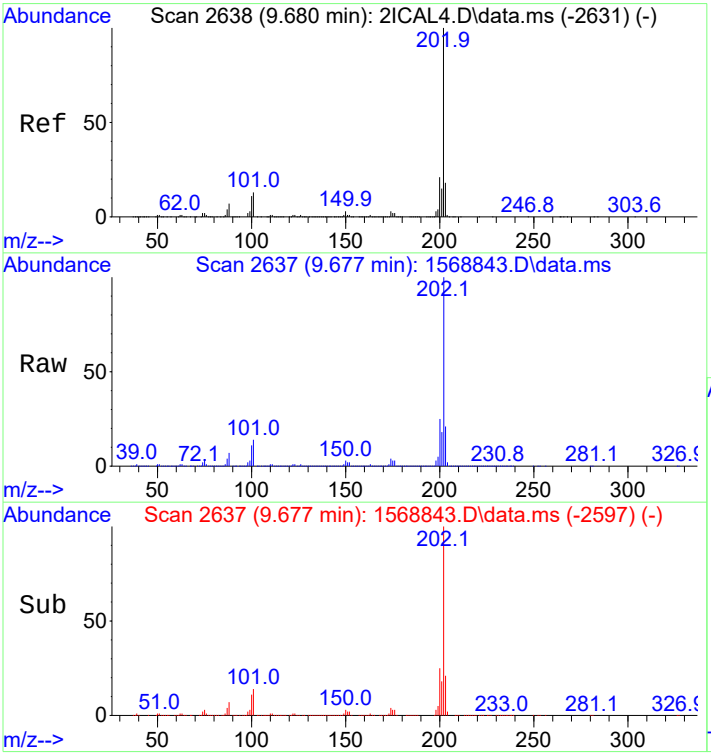



#73
Dinbtylphthal
Concen: 0.16 ug/mL
RT: 9.228 min Scan# 2479
Delta R.T. 0.000 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:149 Resp: 6775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 22.5 | 0.0 | 39.7 |
| 104 | 6.9 | 0.0 | 35.4 |

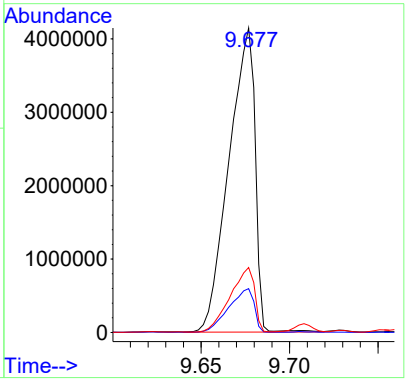


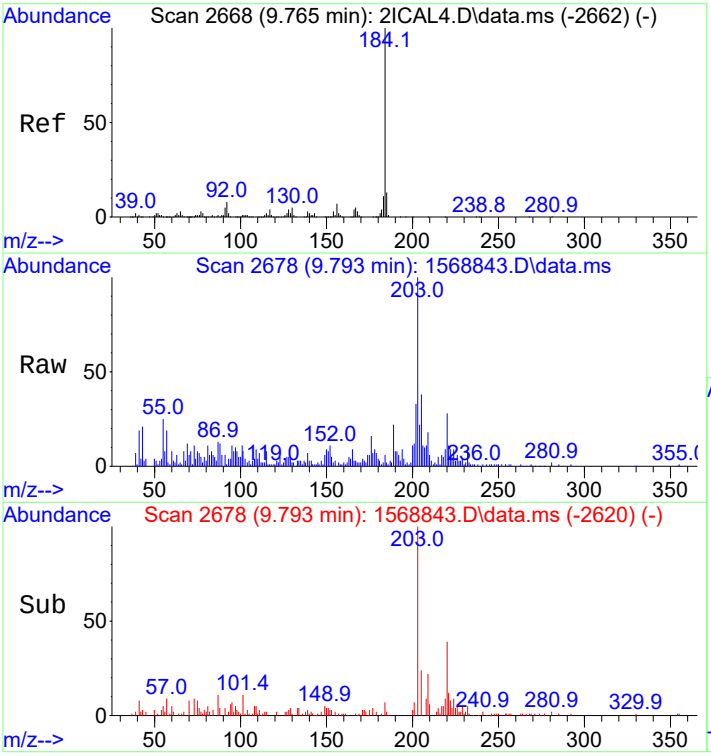




#74
Fluoranthene
Concen: 115.11 ug/mL
RT: 9.677 min Scan# 2637
Delta R.T. 0.014 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:202 Resp: 4259762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.3 | 0.0 | 43.0 |
| 203 | 21.2 | 0.0 | 48.2 |

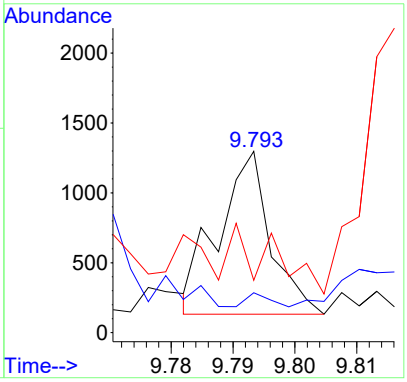


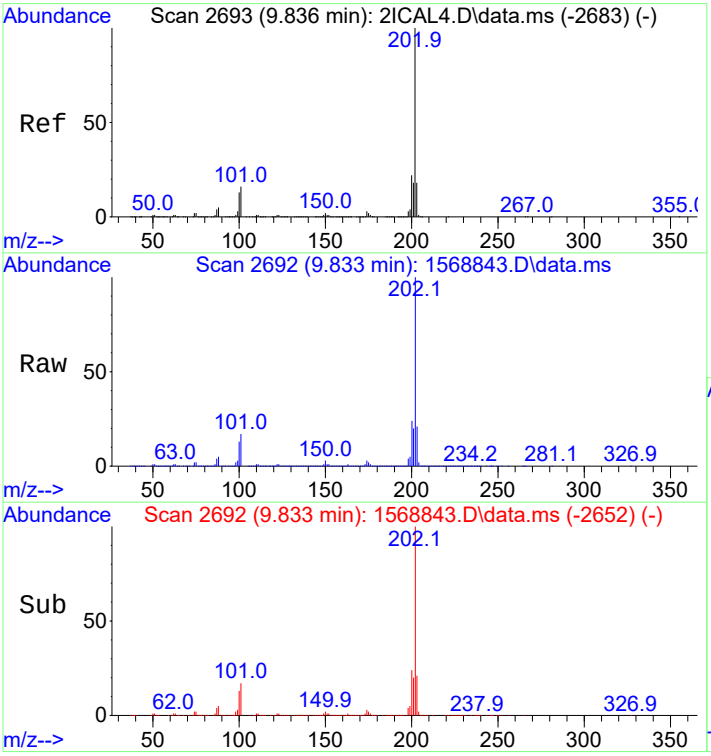



#76
Benzidine
Concen: Below Cal
RT: 9.793 min Scan# 2678
Delta R.T. 0.045 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:184 Resp: 681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 4.0 | 0.0 | 38.2 |
| 185 | 24.4 | 0.0 | 43.3 |

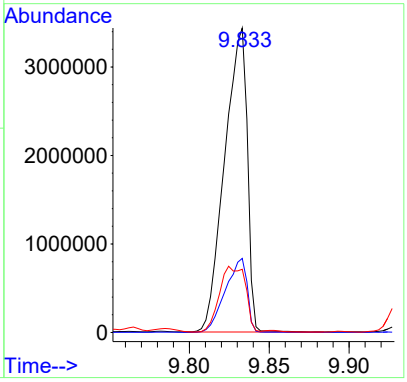


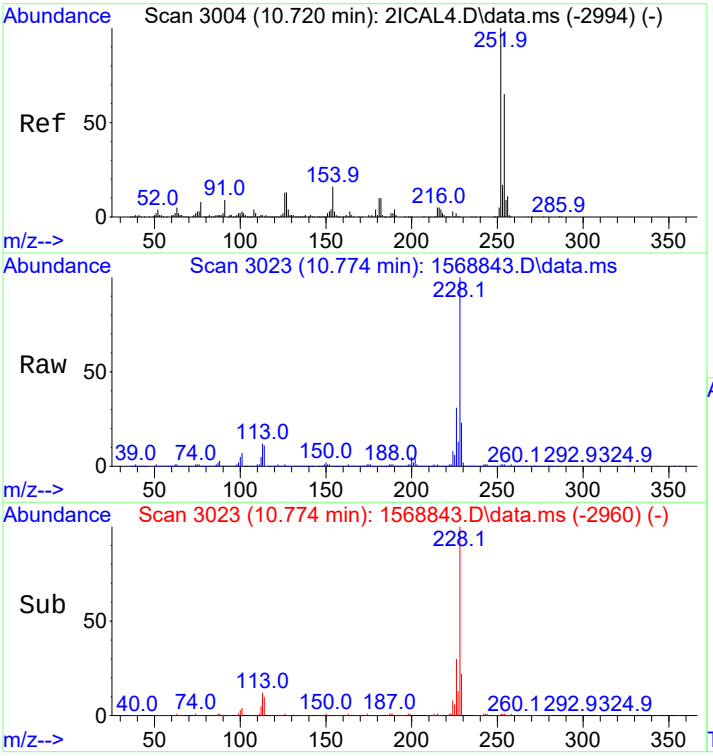




#77
Pyrene
Concen: 93.43 ug/mL
RT: 9.833 min Scan# 2692
Delta R.T. 0.014 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:202 Resp: 3383926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 24.3 | 0.0 | 52.2 |
| 203 | 20.6 | 0.0 | 48.2 |

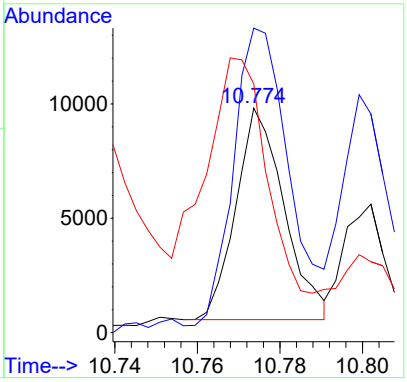


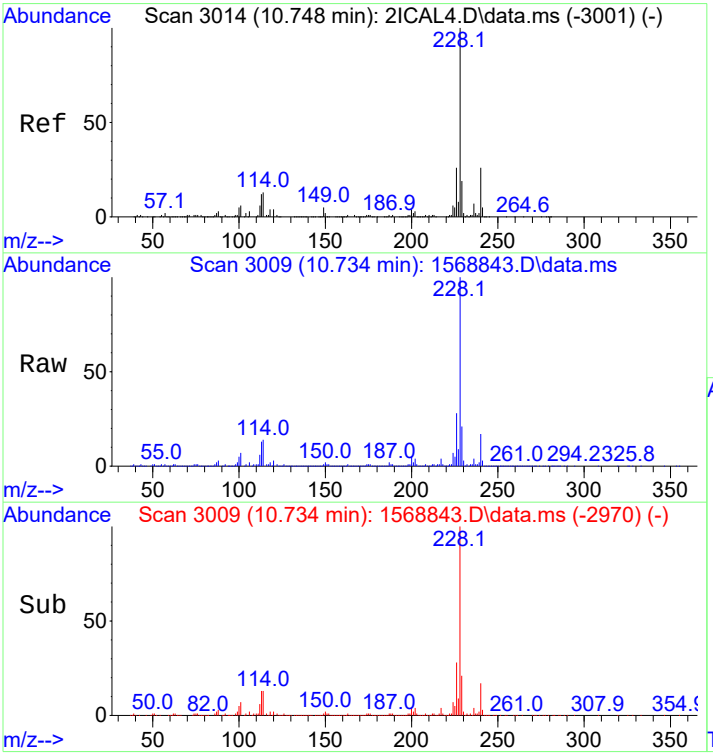



#81
33Diclbnzidin
Concen: 0.77 ug/mL
RT: 10.774 min Scan# 3023
Delta R.T. 0.080 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:252 Resp: 7534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 140.7 | 34.6 | 94.6# |
| 126 | 97.2 | 0.0 | 42.6# |

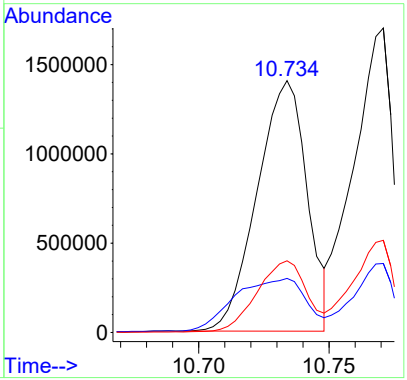


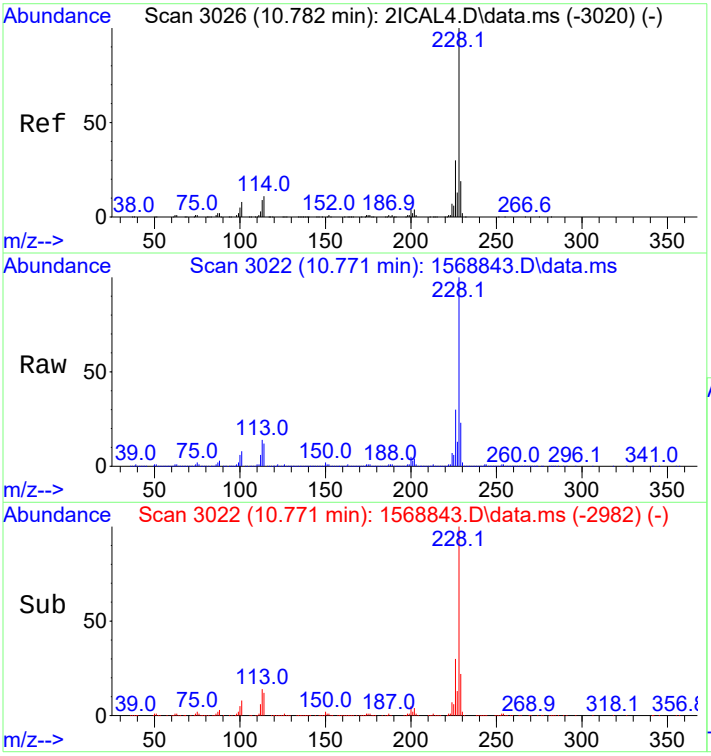




#82
B[a]anthracen
Concen: 54.47 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. 0.011 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:228 Resp: 1870010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.9 | 0.0 | 49.4 |
| 226 | 28.4 | 0.0 | 56.5 |

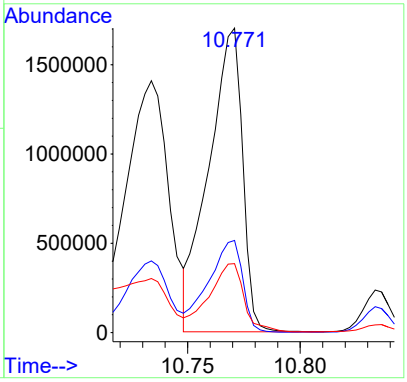


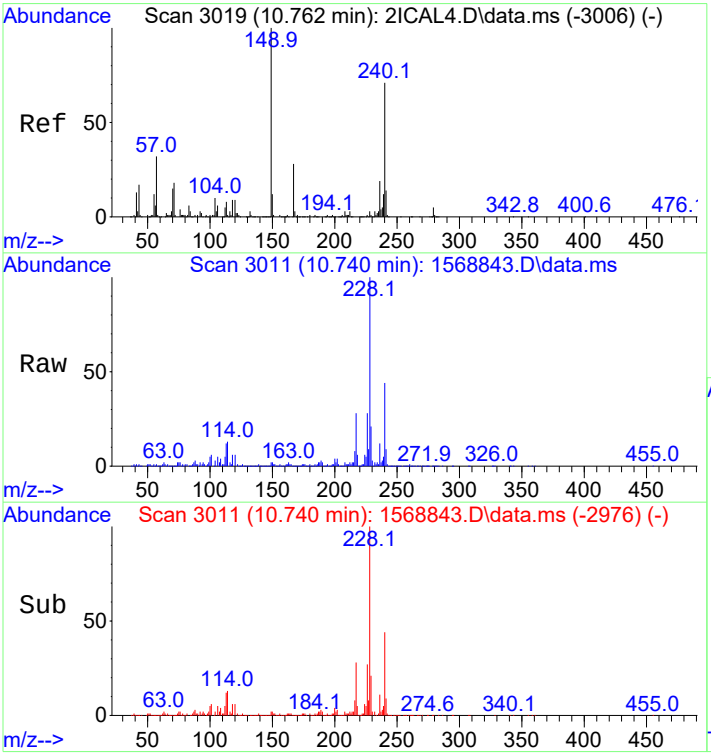



#83
Chrysene
Concen: 55.30 ug/mL
RT: 10.771 min Scan# 3022
Delta R.T. 0.014 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:228 Resp: 1780647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 0.0 | 59.9 |
| 229 | 22.5 | 0.0 | 49.5 |

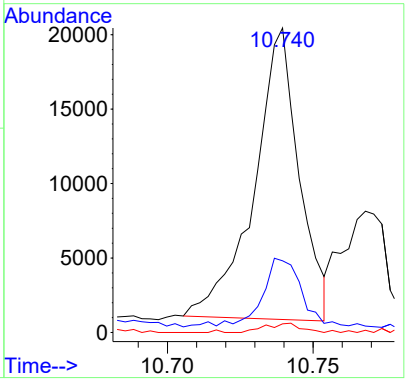


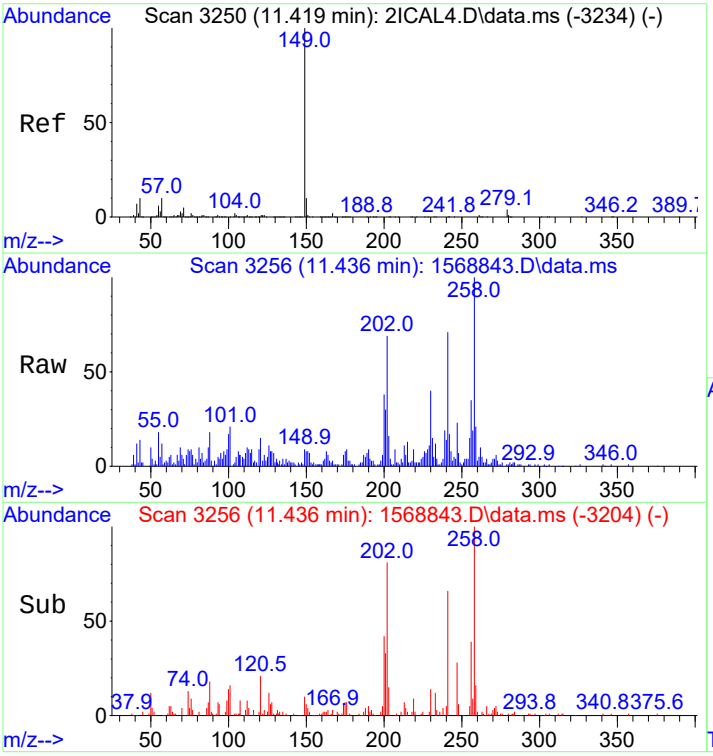




#84
bis2Ethlhxlph
Concen: 0.80 ug/mL
RT: 10.740 min Scan# 3011
Delta R.T. -0.000 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:149 Resp: 21016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 23.0 | 0.0 | 57.9 |
| 279 | 3.0 | 0.0 | 34.9 |

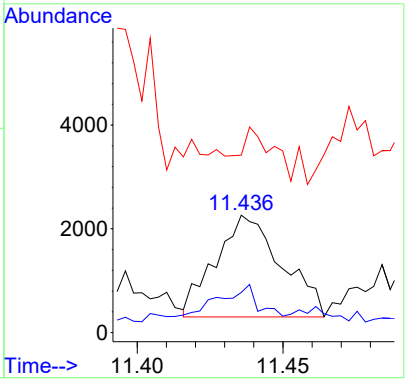


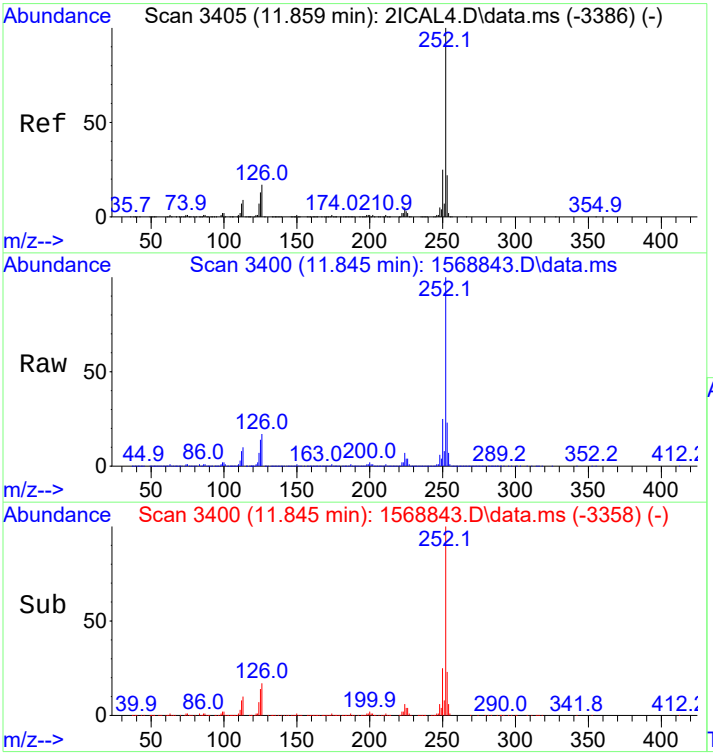



#85
Dinoctylphthl
Concen: 0.38 ug/mL
RT: 11.436 min Scan# 3256
Delta R.T. 0.048 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:149 Resp: 3093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 22.3 | 0.0 | 31.6 |
| 43 | 1.6 | 0.0 | 39.9 |

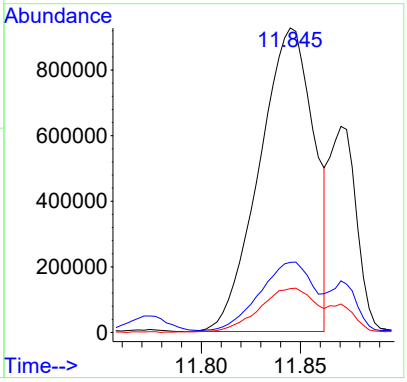


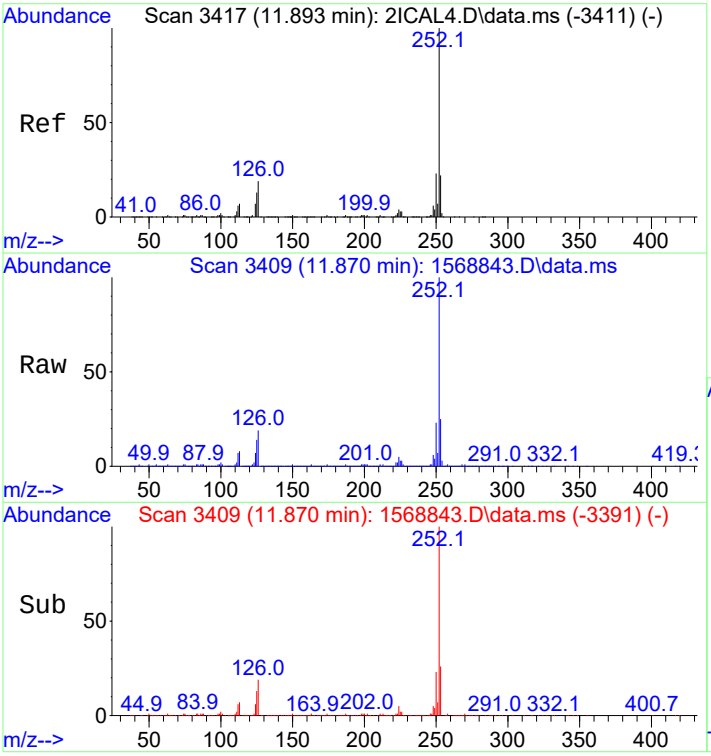




#87
B[b]fluoranth
Concen: 94.36 ug/mL
RT: 11.845 min Scan# 3400
Delta R.T. 0.020 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:252 Resp: 1778388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 0.0 | 52.3 |
| 125 | 14.2 | 0.0 | 43.2 |

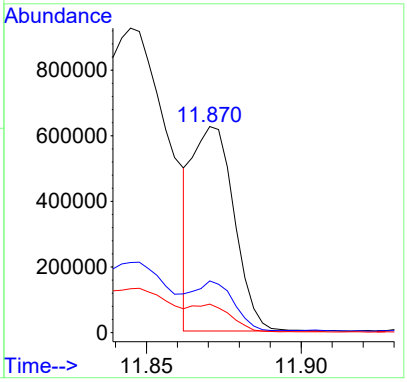


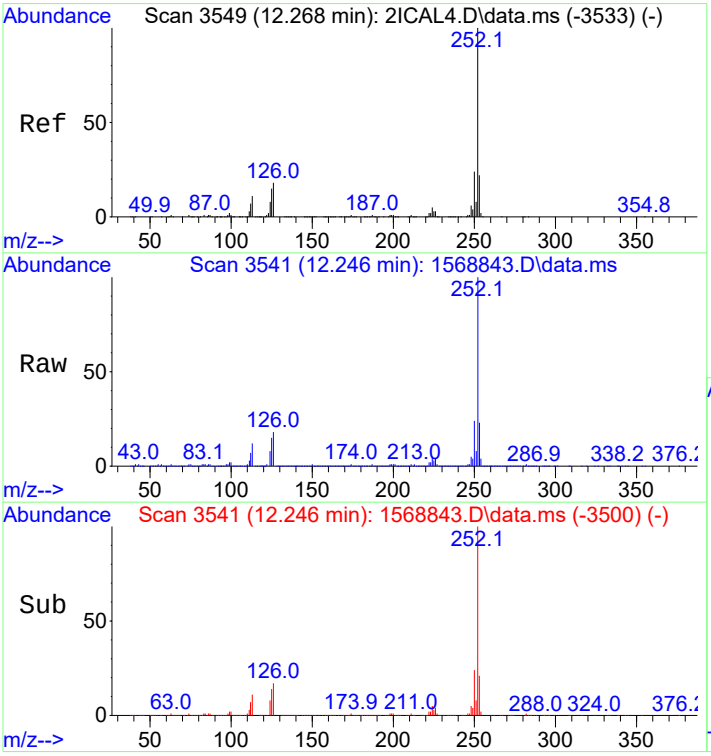



#88
B[k]fluoranth
Concen: 30.99 ug/mL
RT: 11.870 min Scan# 3409
Delta R.T. 0.011 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:252 Resp: 585181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.3 | 0.0 | 52.0 |
| 125 | 13.6 | 0.0 | 43.3 |

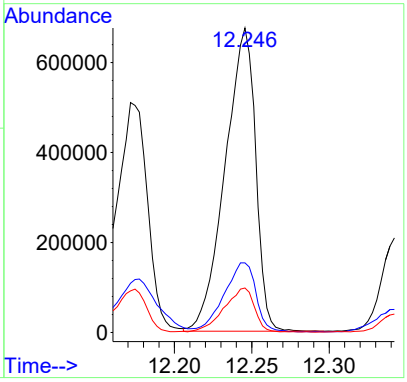


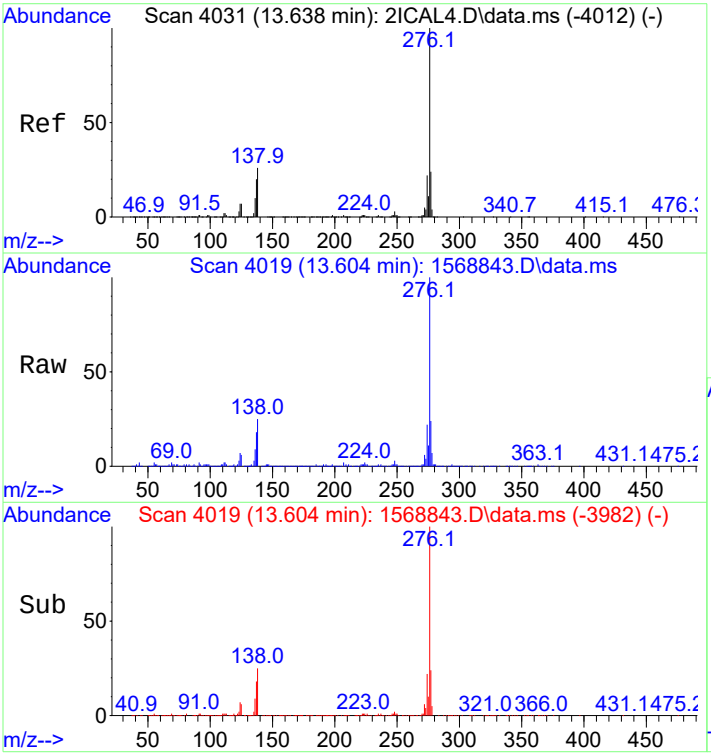




#89
Benz[a]pyrene
Concen: 53.24 ug/mL
RT: 12.246 min Scan# 3541
Delta R.T. 0.017 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:252 Resp: 922744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 0.0 | 52.3 |
| 125 | 14.5 | 0.0 | 45.1 |

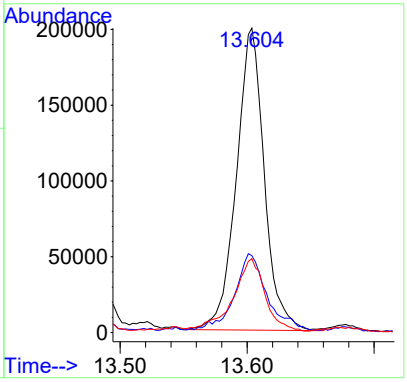


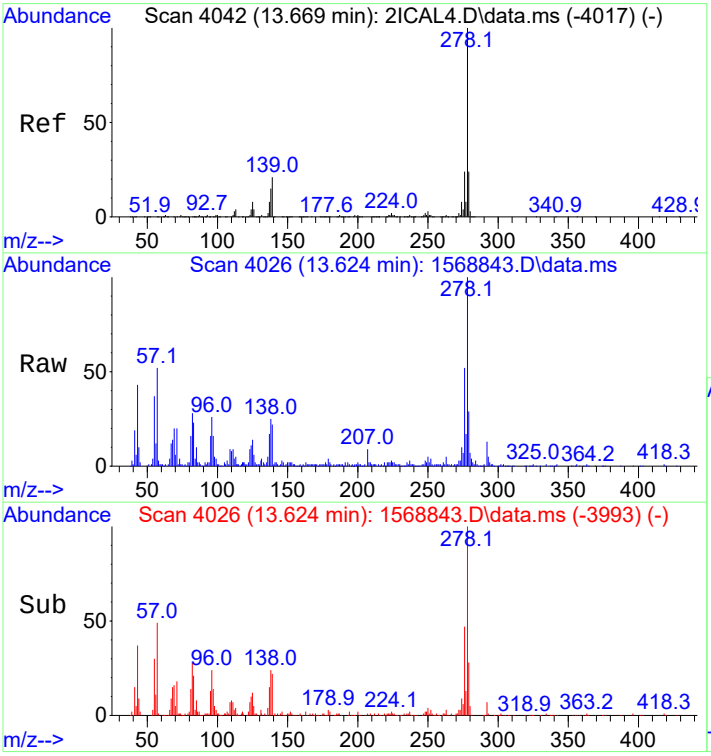



#90
Indeno-pyrene
Concen: 15.91 ug/mL
RT: 13.604 min Scan# 4019
Delta R.T. 0.006 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:276 Resp: 304959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.6 | 0.0 | 55.5 |
| 277 | 23.3 | 0.0 | 54.0 |

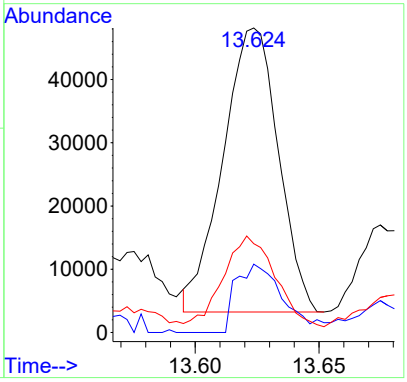


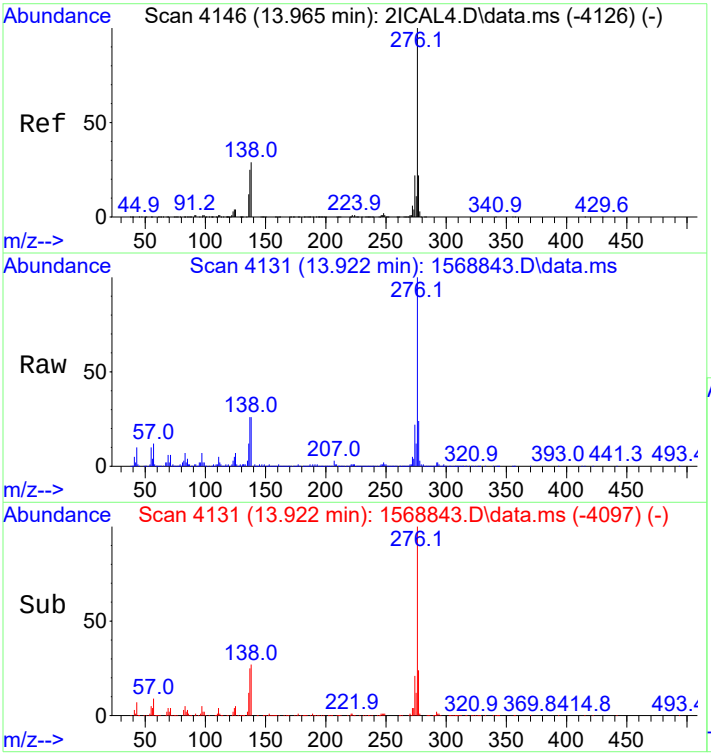




#91
Dib[ah]anthr
Concen: 4.46 ug/mL
RT: 13.624 min Scan# 4026
Delta R.T. -0.006 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:278 Resp: 69942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 24.0 | 0.0 | 50.9 |
| 279 | 29.3 | 0.0 | 54.4 |

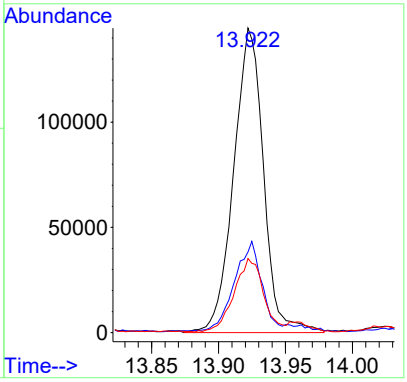





#92
B[ghi]perylen
Concen: 14.96 ug/mL
RT: 13.922 min Scan# 4131
Delta R.T. -0.003 min
Lab File: 1568843.D
Acq: 10 Apr 2025 21:10

Tgt Ion:276 Resp: 224709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.8 | 0.0 | 59.0 |
| 277 | 24.0 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568845.D Vial: 34
Acq On : 10 Apr 2025 21:34 Operator: ALD
Sample : 290730,1568845, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 21:50:38 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.329 | 152 | 177410 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.020 | 136 | 880582 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 503964 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.850 | 188 | 723230 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.737 | 240 | 577977 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.305 | 264 | 344972 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.107 | 112 | 285082 | 66.74 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 66.74% | | | |
| 7) SURRPhenol-d5 | 3.917 | 99 | 379425 | 73.91 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 73.91% | | | |
| 22) SURRNitrbenzened5 | 5.011 | 82 | 157755 | 65.75 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 65.75% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 438286 | 72.90 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 72.90% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 111249 | 82.47 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 82.47% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 503087 | 89.26 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 89.26% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Pyridine | 2.610 | 79 | 9163 | 0.7465 | ug/mL | 89 |
| 5) Aniline | 4.008 | 93 | 831 | 0.0507 | ug/mL# | 1 |
| 8) Phenol | 3.929 | 94 | 4439 | 0.3374 | ug/mL# | 61 |
| 13) Benzyl alcoho | 4.491 | 108 | 1407 | 0.1845 | ug/mL# | 84 |
| 14) bis2clispreth | 4.636 | 45 | 3665 | 0.1797 | ug/mL | 82 |
| 17) Acetophenone | 4.818 | 105 | 2362 | 0.1424 | ug/mL | 88 |
| 20) 3&4Methylphenol | 4.832 | 107 | 1449 | 0.1219 | ug/mL# | 59 |
| 30) Benzoic acid | 5.696 | 122 | 11619 | 4.4959 | ug/mL# | 74 |
| 31) Naphthalene | 6.043 | 128 | 26373 | 0.6494 | ug/mL | 92 |
| 32) 4-Cl-aniline | 6.080 | 127 | 220 | 0.0139 | ug/mL# | 66 |
| 36) 4Cl3methylphe | 6.645 | 107 | 561 | 0.0502 | ug/mL# | 38 |
| 37) 2Methylnaphth | 6.838 | 142 | 10041 | 0.4091 | ug/mL | 97 |
| 38) 1Methylnaphth | 6.935 | 142 | 8929 | 0.3517 | ug/mL | 95 |
| 46) 2Nitroaniline | 7.432 | 65 | 1782 | 0.4993 | ug/mL# | 16 |
| 47) Acnaphthylene | 7.674 | 152 | 9561 | 0.2344 | ug/mL | 93 |
| 50) Acenaphthene | 7.824 | 154 | 112714 | 4.6499 | ug/mL | 100 |
| 51) 3Nitroaniline | 7.776 | 138 | 932 | 0.3666 | ug/mL# | 32 |
| 53) Dibenzofuran | 7.966 | 168 | 64794 | 1.8510 | ug/mL | 95 |
| 54) 24Dinitrotolu | 7.972 | 165 | 812 | 0.0918 | ug/mL# | 1 |
| 55) 4-Nitrophenol | 7.927 | 65 | 830 | 1.4168 | ug/mL# | 65 |
| 58) Fluorene | 8.236 | 166 | 97472 | 3.6425 | ug/mL | 98 |
| 60) Diethylphthal | 8.162 | 149 | 1999 | 0.0674 | ug/mL | 76 |
| 61) 4Nitroaniline | 8.236 | 138 | 1654 | 0.5827 | ug/mL# | 41 |
| 65) Ntrsdiphlam&Diphlam | 8.327 | 169 | 1850 | 0.0992 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 19873 | 2.9888 | ug/mL# | 1 |
| 69) Pentaclphenol | 8.731 | 266 | 768 | 3.4842 | ug/mL | 79 |
| 70) Phenanthrene | 8.867 | 178 | 1498721 | 42.5345 | ug/mL | 99 |
| 71) Anthracene | 8.898 | 178 | 314059 | 8.7605 | ug/mL | 98 |
| 72) Carbazole | 9.001 | 167 | 287227 | 9.4091 | ug/mL | 99 |
| 73) Dinbtylphthal | 9.228 | 149 | 5419 | 0.1269 | ug/mL | 69 |
| 74) Fluoranthene | 9.668 | 202 | 2384639 | 64.0912 | ug/mL | 97 |
| 77) Pyrene | 9.825 | 202 | 1908613 | 51.9888 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.771 | 252 | 4434 | 0.3344 | ug/mL# | 1 |
| 82) B[a]anthracen | 10.728 | 228 | 992270 | 28.5155 | ug/mL | 97 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568845.D Vial: 34
Acq On : 10 Apr 2025 21:34 Operator: ALD
Sample : 290730,1568845, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 21:50:38 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

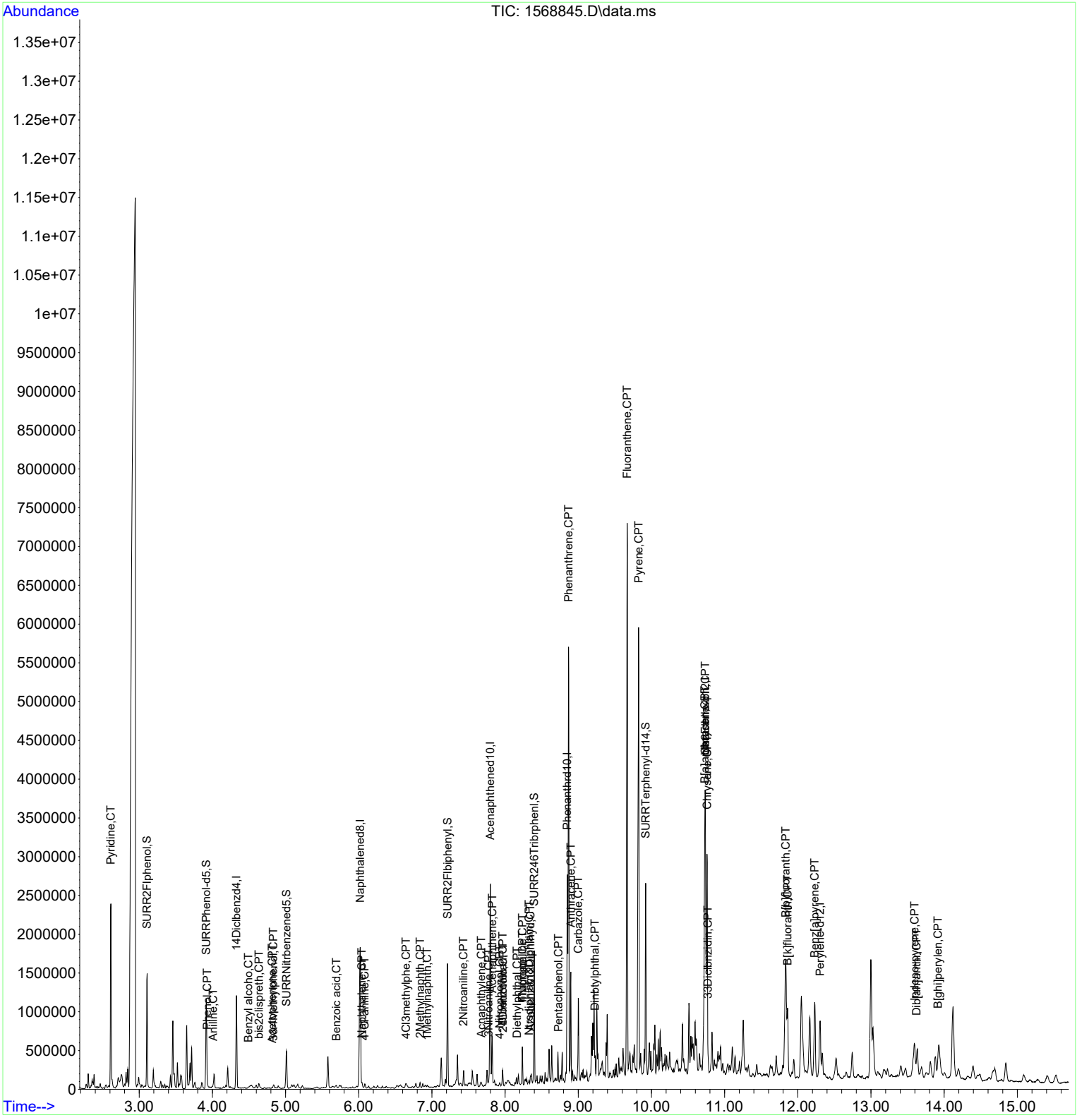
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 83) Chrysene | 10.759 | 228 | 947456 | 29.0320 | ug/mL | 96 |
| 84) bis2Ethlhxlph | 10.737 | 149 | 16958 | 0.6403 | ug/mL | 94 |
| 87) B[b]fluoranth | 11.836 | 252 | 899079 | 49.2005 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.862 | 252 | 320271 | 17.4928 | ug/mL | 97 |
| 89) Benz[a]pyrene | 12.231 | 252 | 463445 | 27.5772 | ug/mL | 97 |
| 90) Indeno-pyrene | 13.598 | 276 | 150401 | 8.0916 | ug/mL | 94 |
| 91) Dib[ah]anthr | 13.621 | 278 | 34109 | 2.2449 | ug/mL | 95 |
| 92) B[ghi]perylen | 13.916 | 276 | 106564 | 7.3176 | ug/mL | 97 |

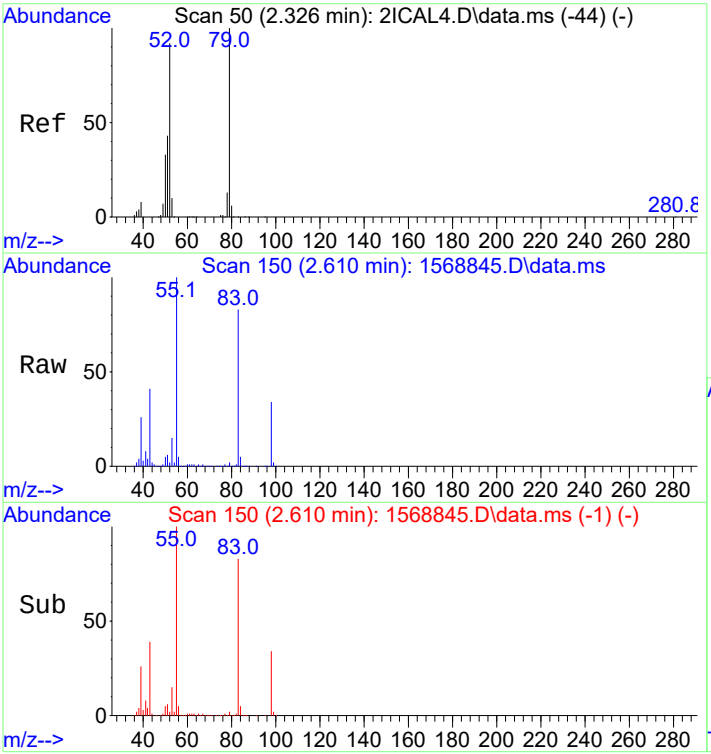
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568845.D Vial: 34
Acq On : 10 Apr 2025 21:34 Operator: ALD
Sample : 290730,1568845, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 21:50:38 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

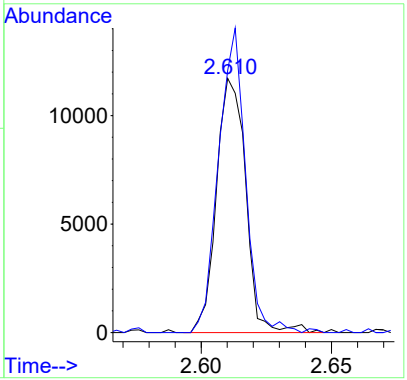


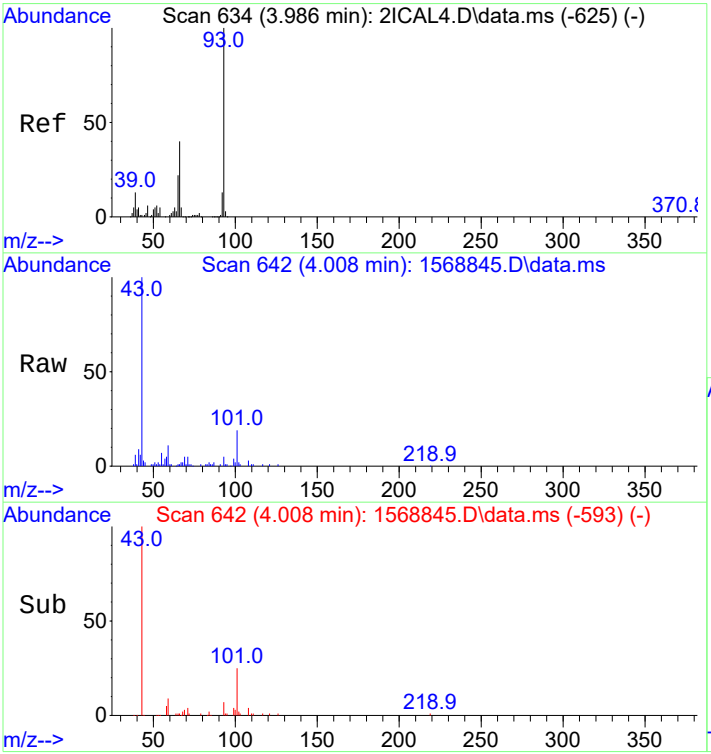



#3
Pyridine
Concen: 0.75 ug/mL
RT: 2.610 min Scan# 150
Delta R.T. 0.301 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion: 79 Resp: 9163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 103.1 | 62.5 | 122.5 |

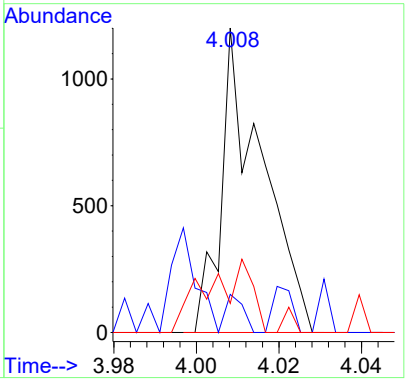


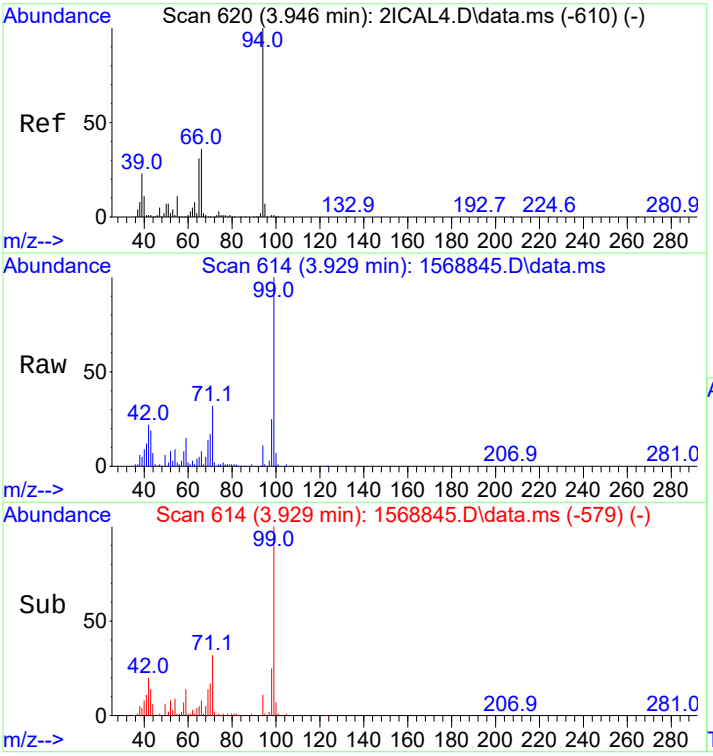




#5
Aniline
Concen: 0.05 ug/mL
RT: 4.008 min Scan# 642
Delta R.T. 0.040 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion: 93 Resp: 831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 2369.8 | 10.8 | 70.8# |
| 65 | 596.4 | 0.0 | 51.7# |

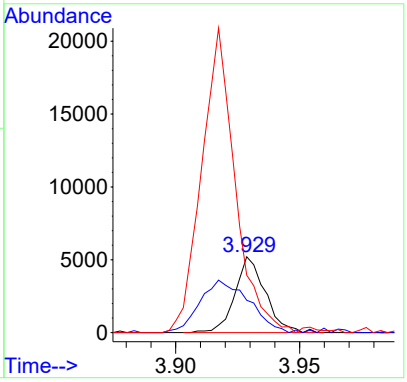


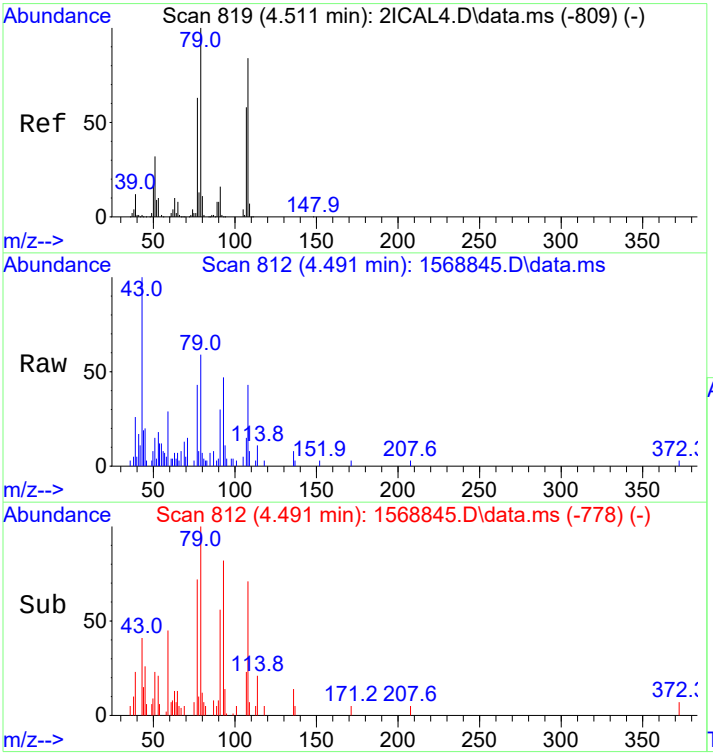



#8
Phenol
Concen: 0.34 ug/mL
RT: 3.929 min Scan# 614
Delta R.T. 0.000 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion: 94 Resp: 4439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 36.9 | 0.7 | 60.7 |
| 66 | 73.0 | 6.4 | 66.4# |

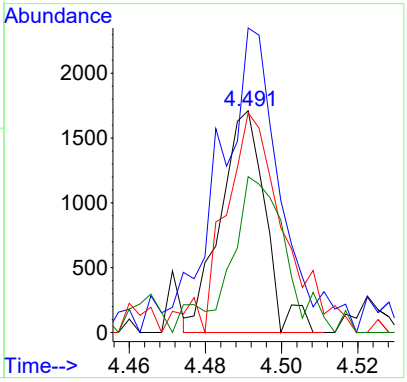


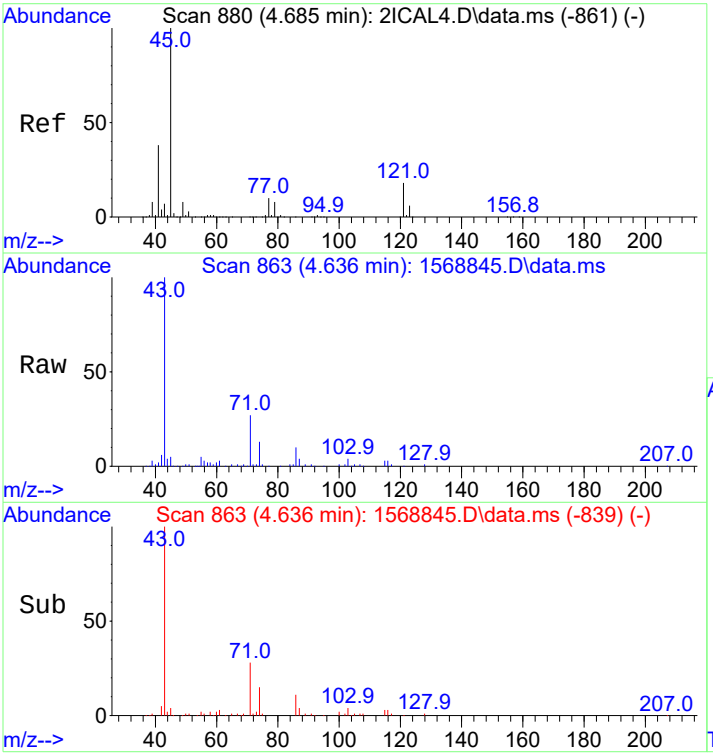




#13
Benzyl alcoho
Concen: 0.18 ug/mL
RT: 4.491 min Scan# 812
Delta R.T. -0.003 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:108 Resp: 1407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 79 | 118.9 | 89.6 | 149.6 |
| 77 | 90.9 | 44.8 | 104.8 |
| 91 | 63.3 | 0.0 | 49.0# |

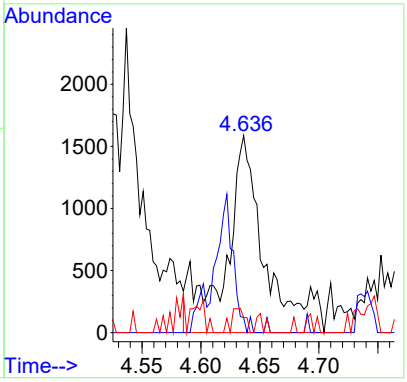


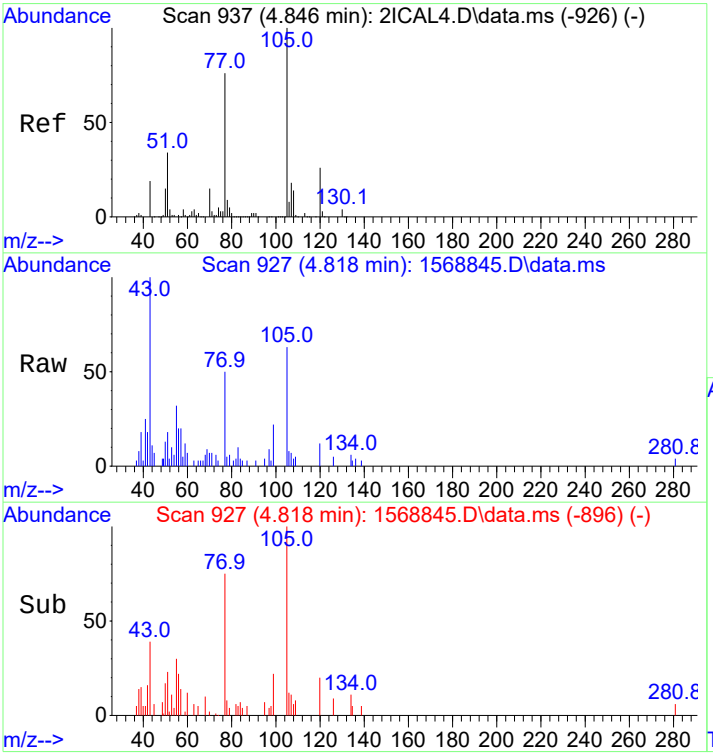



#14
bis2clispreth
Concen: 0.18 ug/mL
RT: 4.636 min Scan# 863
Delta R.T. -0.031 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion: 45 Resp: 3665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 7.1 | 0.0 | 47.5 |
| 77 | 7.1 | 0.0 | 40.1 |

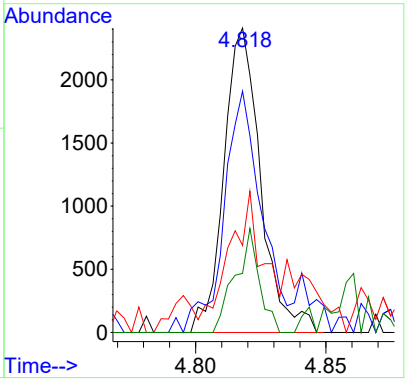


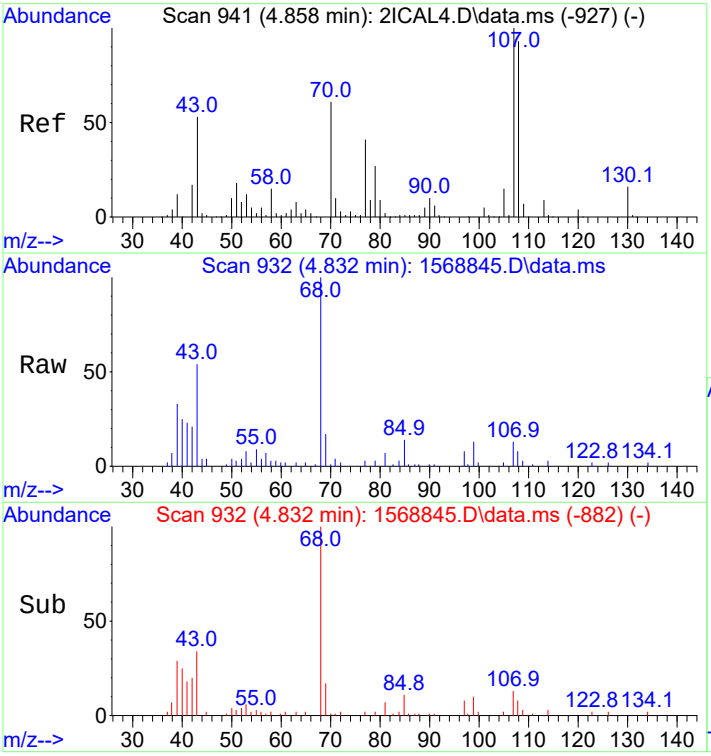




#17
Acetophenone
Concen: 0.14 ug/mL
RT: 4.818 min Scan# 927
Delta R.T. -0.011 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:105 Resp: 2362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 82.2 | 46.3 | 106.3 |
| 51 | 23.7 | 3.7 | 63.7 |
| 120 | 15.2 | 0.0 | 55.6 |

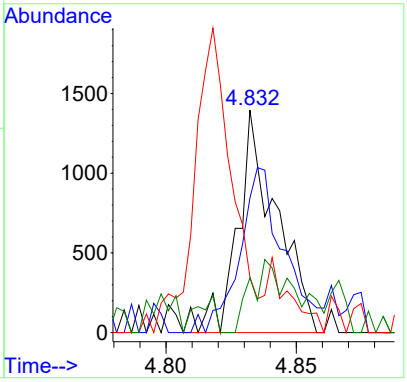


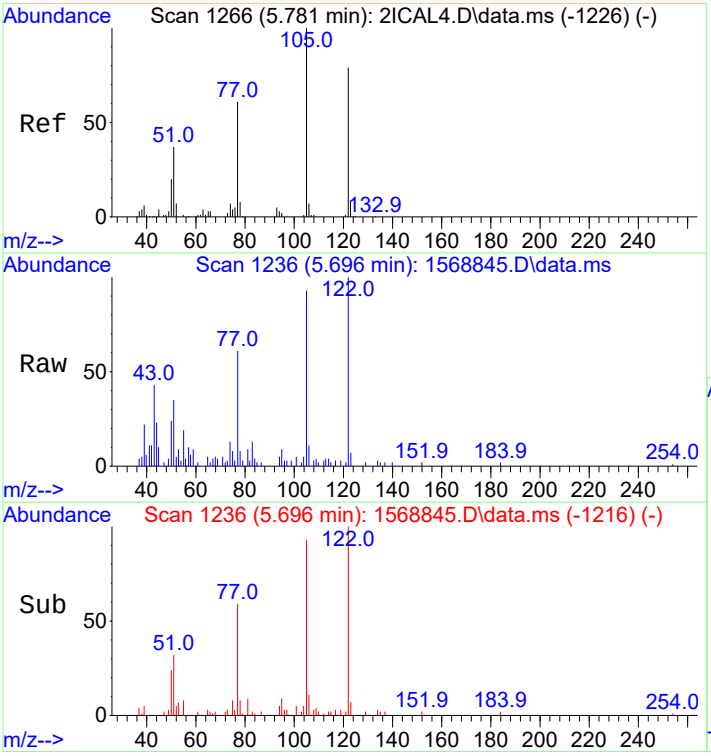



#20
3&4Methylphenol
Concen: 0.12 ug/mL
RT: 4.832 min Scan# 932
Delta R.T. -0.009 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:107 Resp: 1449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 49.4 | 63.3 | 123.3# |
| 77 | 15.5 | 11.4 | 71.4 |
| 79 | 15.3 | 0.0 | 56.9 |

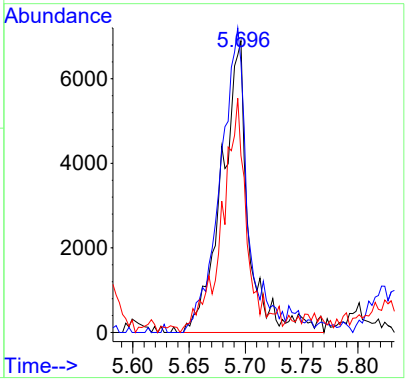


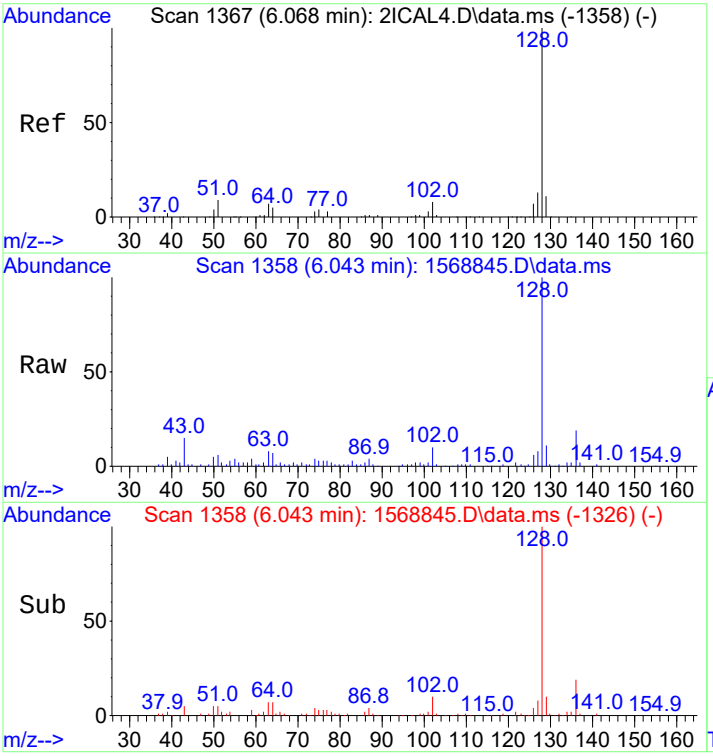




#30
Benzoic acid
Concen: 4.50 ug/mL
RT: 5.696 min Scan# 1236
Delta R.T. -0.074 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:122 Resp: 11619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 92.5 | 96.0 | 156.0# |
| 77 | 58.9 | 46.6 | 106.6 |

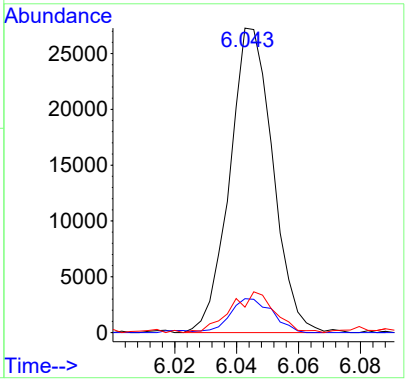


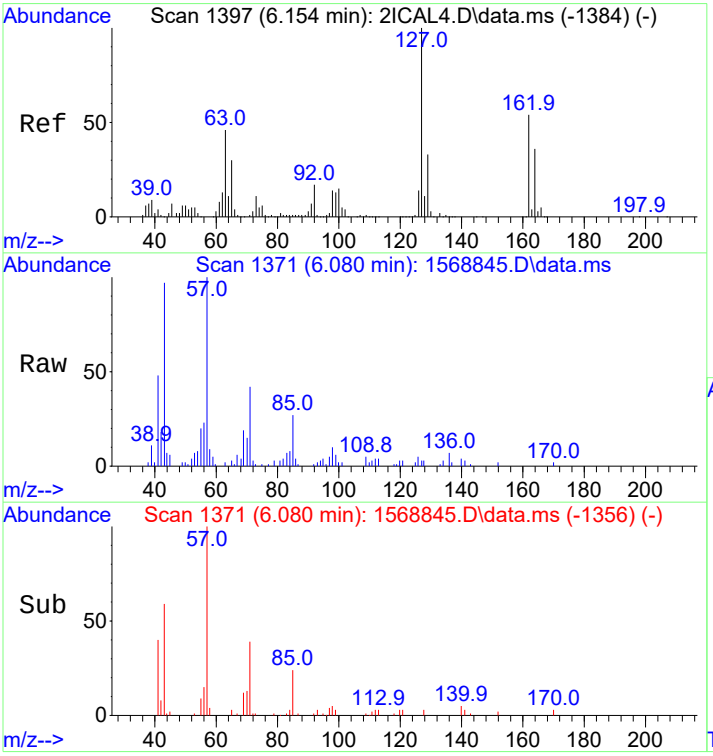



#31
Naphthalene
Concen: 0.65 ug/mL
RT: 6.043 min Scan# 1358
Delta R.T. -0.009 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:128 Resp: 26373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.9 | 0.0 | 41.0 |
| 127 | 8.4 | 0.0 | 43.3 |

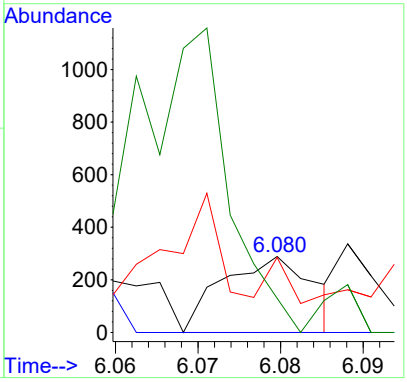


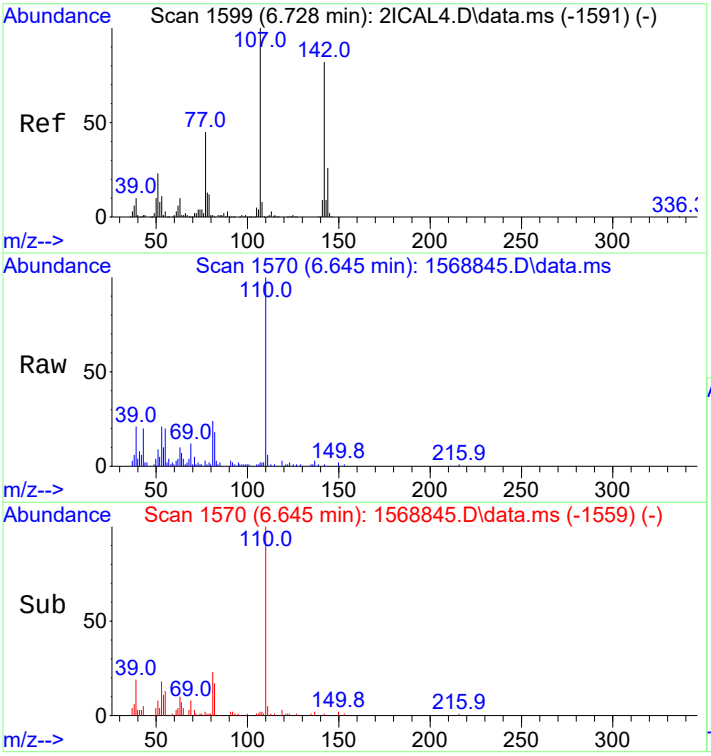




#32
4-Cl-aniline
Concen: 0.01 ug/mL
RT: 6.080 min Scan# 1371
Delta R.T. -0.057 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:127 Resp: 220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 0.0 | 3.1 | 63.1# |
| 65 | 26.3 | 0.2 | 60.2 |
| 92 | 1.7 | 0.0 | 46.7 |

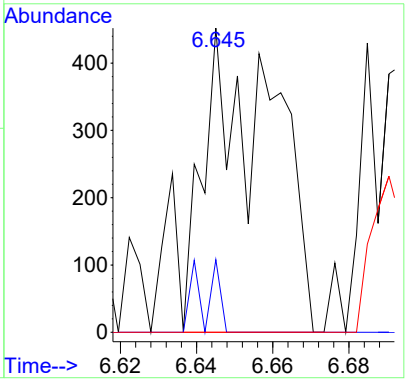


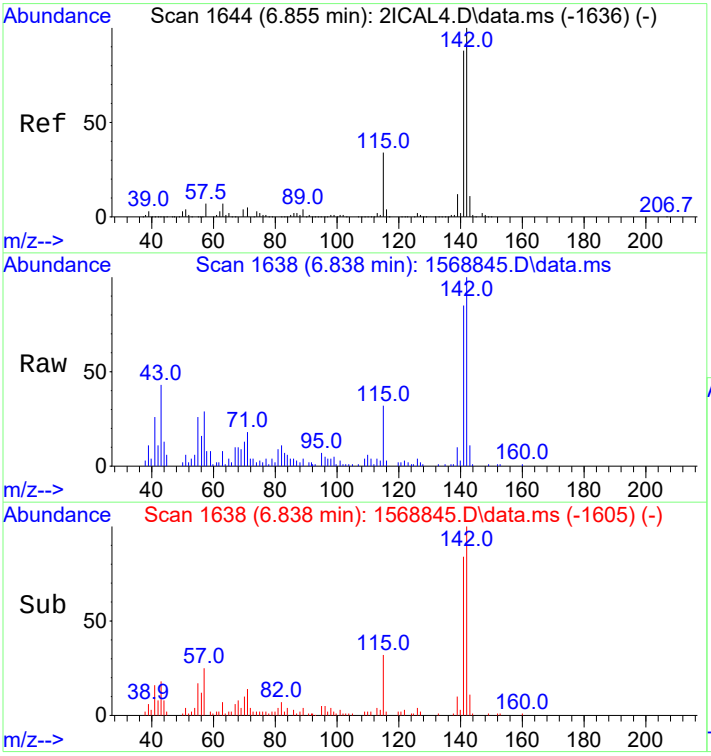



#36
4Cl3methylphe
Concen: 0.05 ug/mL
RT: 6.645 min Scan# 1570
Delta R.T. -0.068 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:107 Resp: 561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 142 | 23.9 | 51.9 | 111.9# |
| 144 | 0.0 | 0.0 | 55.8 |

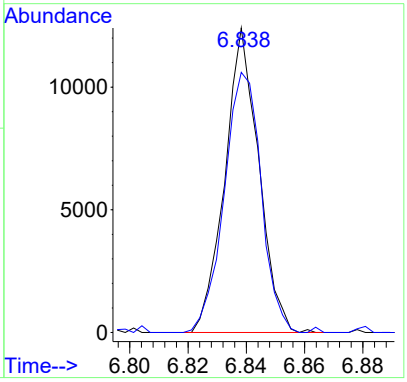


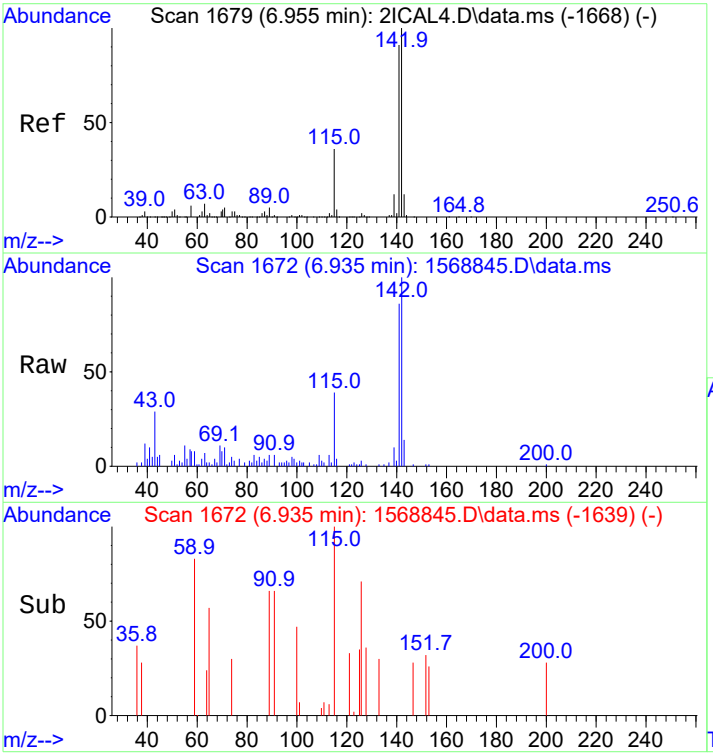




#37
2Methylnaphth
Concen: 0.41 ug/mL
RT: 6.838 min Scan# 1638
Delta R.T. -0.006 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:142 Resp: 10041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 85.4 | 58.0 | 118.0 |

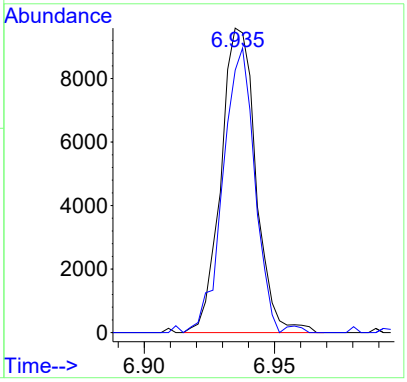


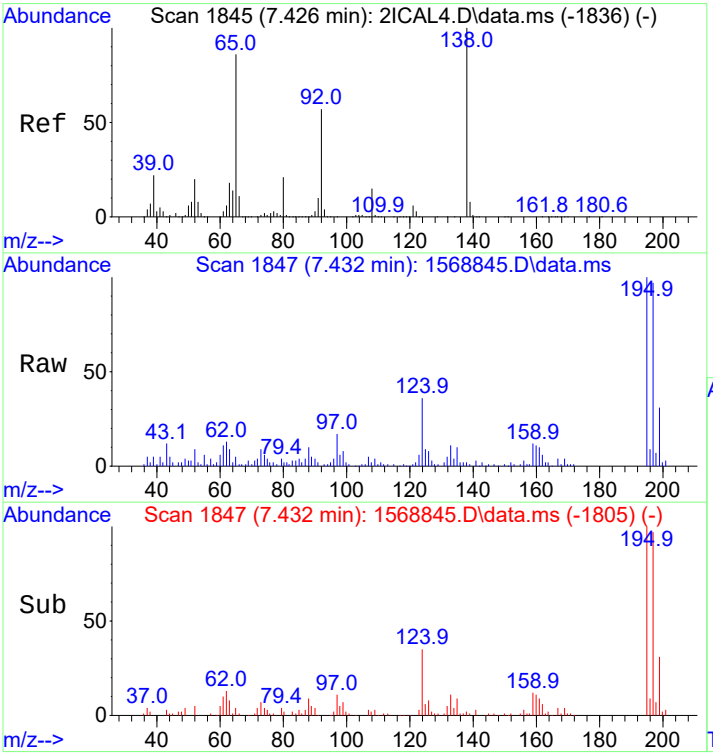



#38
1Methylnaphth
Concen: 0.35 ug/mL
RT: 6.935 min Scan# 1672
Delta R.T. -0.006 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:142 Resp: 8929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.2 | 60.7 | 120.7 |

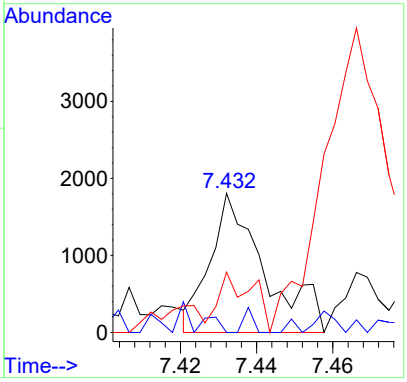


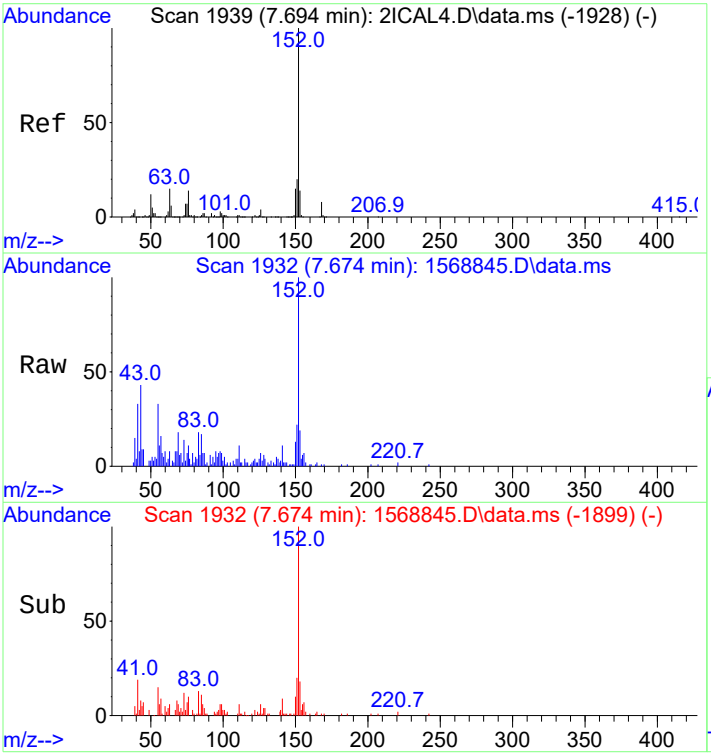




#46
2Nitroaniline
Concen: 0.50 ug/mL
RT: 7.432 min Scan# 1847
Delta R.T. 0.020 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion: 65 Resp: 1782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 0.0 | 36.2 | 96.2# |
| 138 | 24.2 | 85.6 | 145.6# |

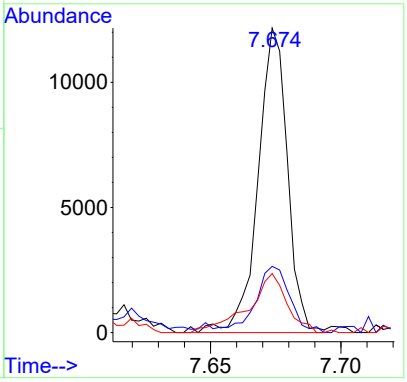


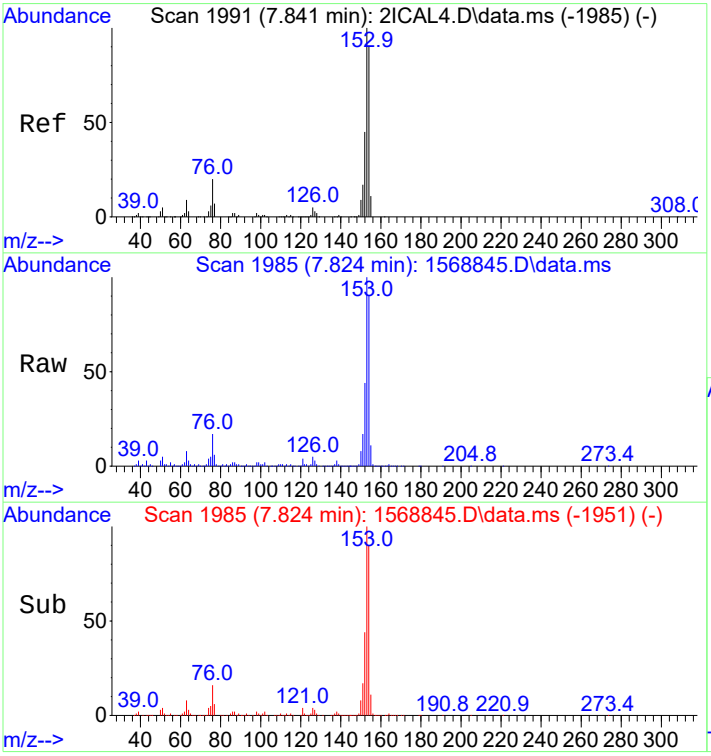



#47
Acnaphthylene
Concen: 0.23 ug/mL
RT: 7.674 min Scan# 1932
Delta R.T. -0.006 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:152 Resp: 9561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.7 | 0.0 | 50.3 |
| 153 | 19.4 | 0.0 | 44.4 |

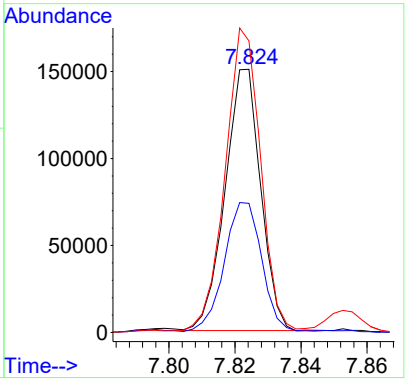


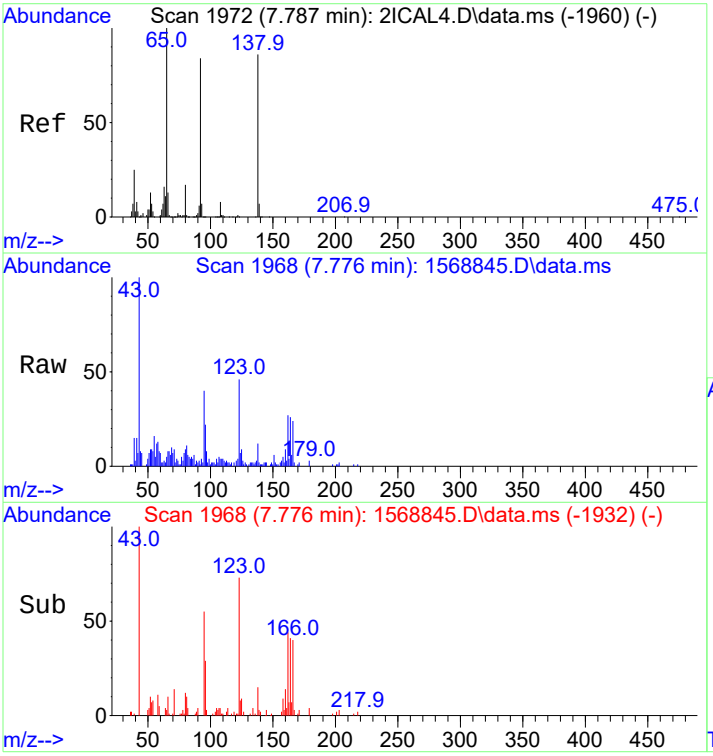




#50
Acenaphthene
Concen: 4.65 ug/mL
RT: 7.824 min Scan# 1985
Delta R.T. -0.003 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:154 Resp: 112714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 49.0 | 20.0 | 80.0 |
| 153 | 110.8 | 80.7 | 140.7 |

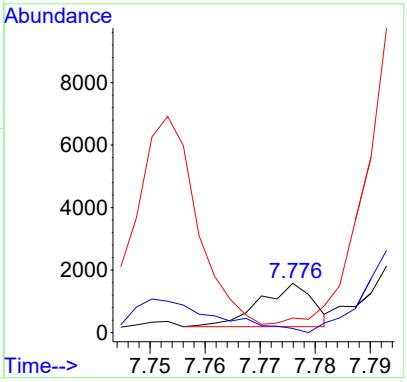


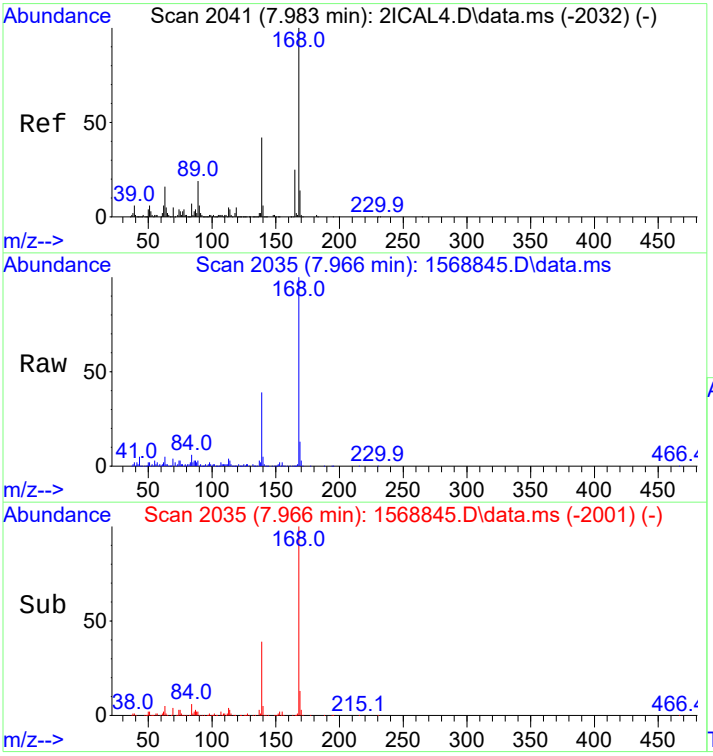



#51
3Nitroaniline
Concen: 0.37 ug/mL
RT: 7.776 min Scan# 1968
Delta R.T. 0.003 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:138 Resp: 932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 26.4 | 67.7 | 127.7# |
| 108 | 0.0 | 0.0 | 38.9 |

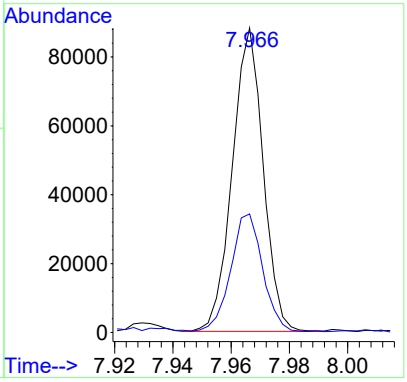


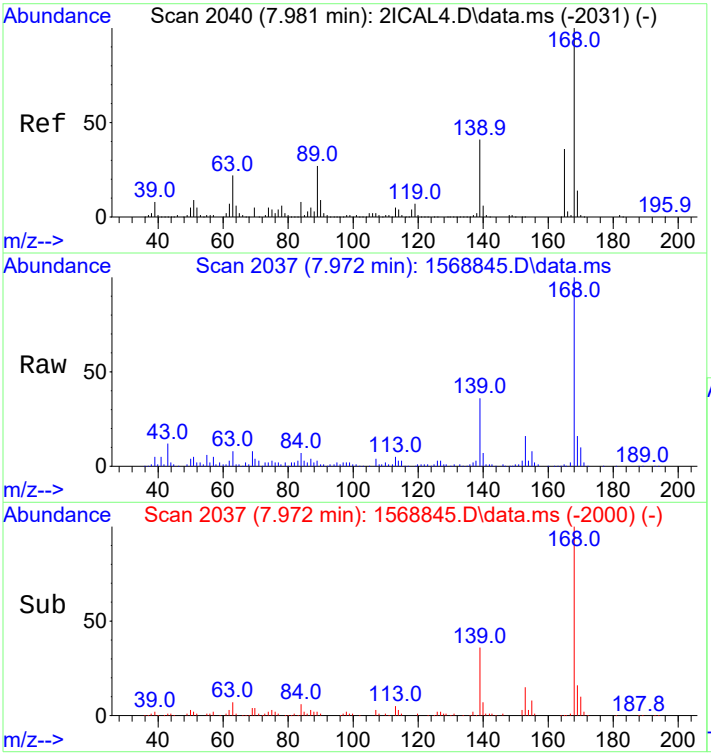




#53
Dibenzofuran
Concen: 1.85 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.003 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:168 Resp: 64794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 38.8 | 11.9 | 71.9 |

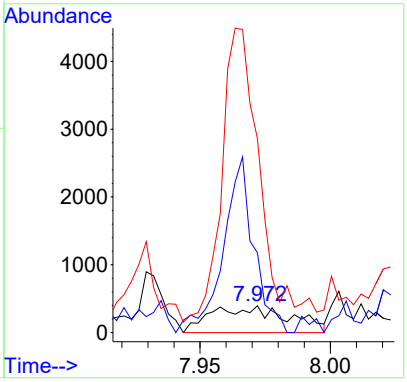


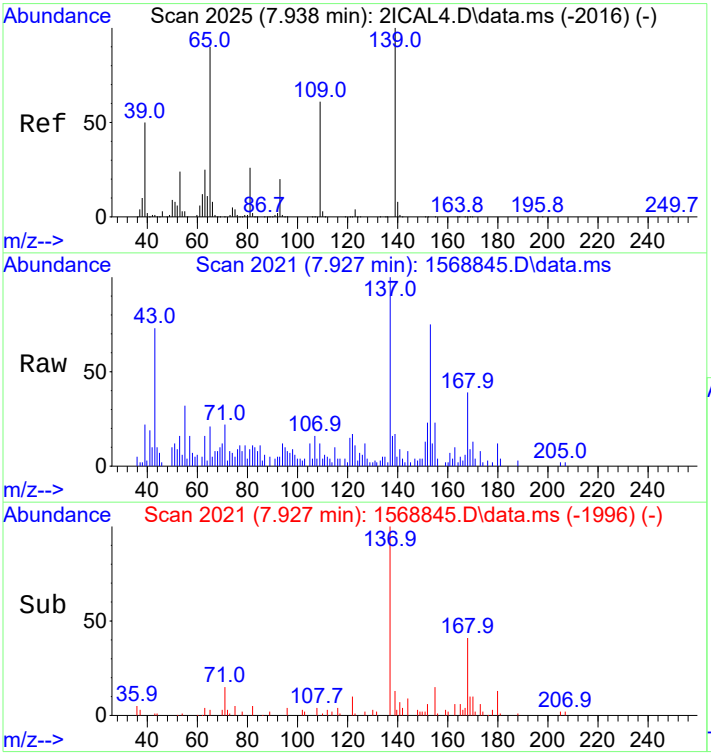



#54
24Dinitrotolu
Concen: 0.09 ug/mL
RT: 7.972 min Scan# 2037
Delta R.T. 0.006 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:165 Resp: 812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 437.5 | 46.1 | 106.1# |
| 63 | 1005.9 | 32.6 | 92.6# |

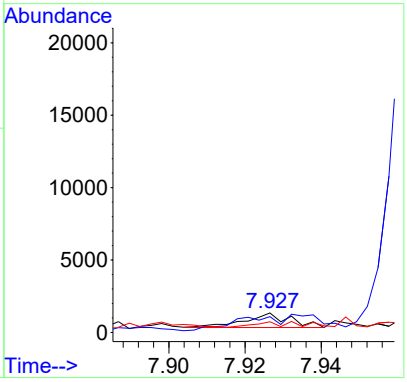


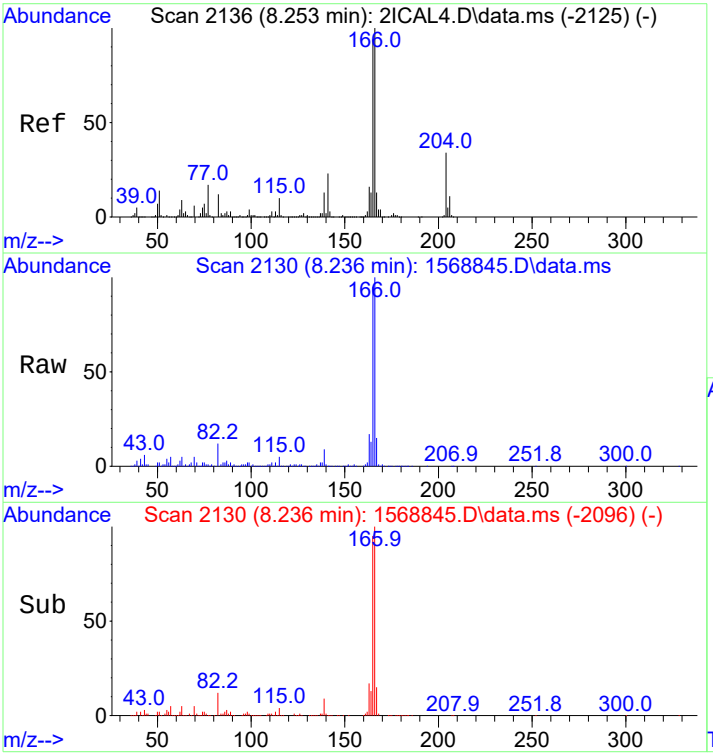




#55
4-Nitrophenol
Concen: 1.42 ug/mL
RT: 7.927 min Scan# 2021
Delta R.T. 0.006 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion: 65 Resp: 830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 130.3 | 80.5 | 140.5 |
| 109 | 18.3 | 37.6 | 97.6# |

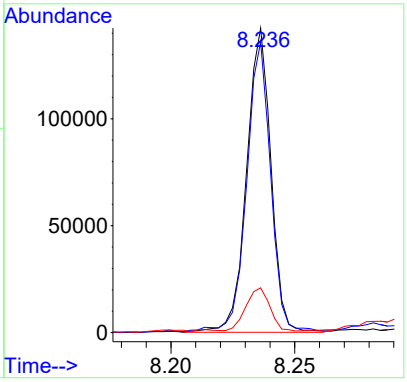


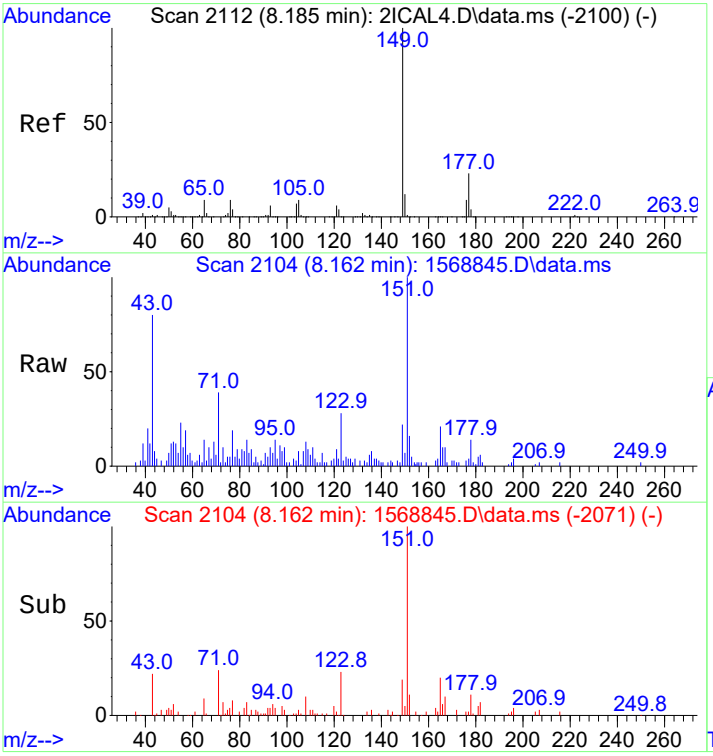



#58
Fluorene
Concen: 3.64 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:166 Resp: 97472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 95.2 | 63.6 | 123.6 |
| 167 | 14.2 | 0.0 | 43.3 |

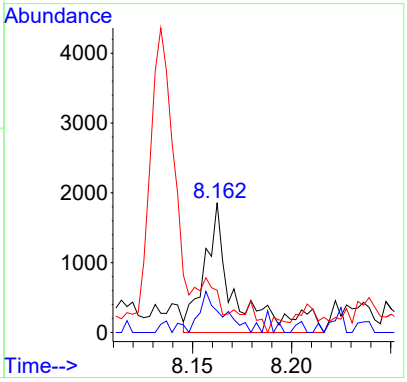


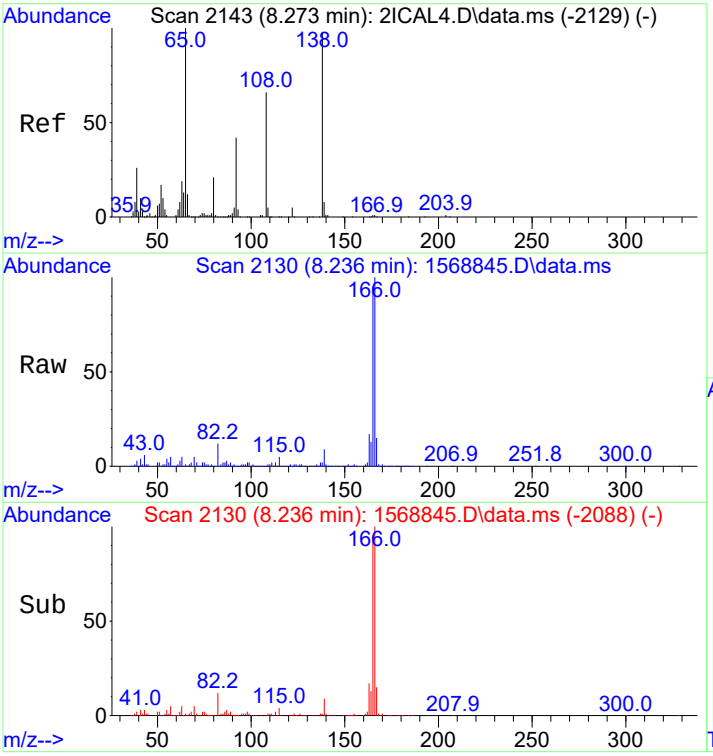




#60
Diethylphthal
Concen: 0.07 ug/mL
RT: 8.162 min Scan# 2104
Delta R.T. -0.006 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:149 Resp: 1999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 10.5 | 0.0 | 52.5 |
| 150 | 20.9 | 0.0 | 42.2 |

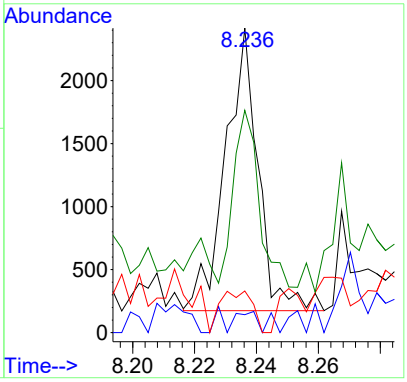


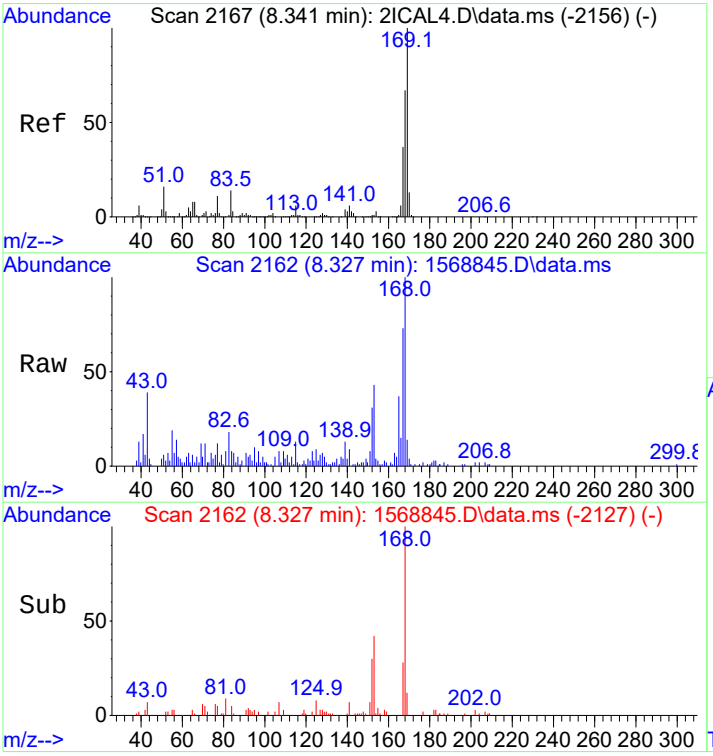



#61
4Nitroaniline
Concen: 0.58 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.020 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:138 Resp: 1654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 6.4 | 12.7 | 72.7# |
| 108 | 1.3 | 36.9 | 96.9# |
| 65 | 56.8 | 71.1 | 131.1# |

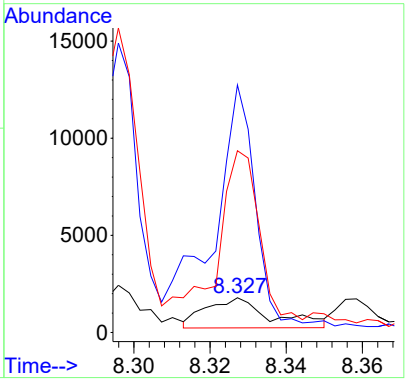


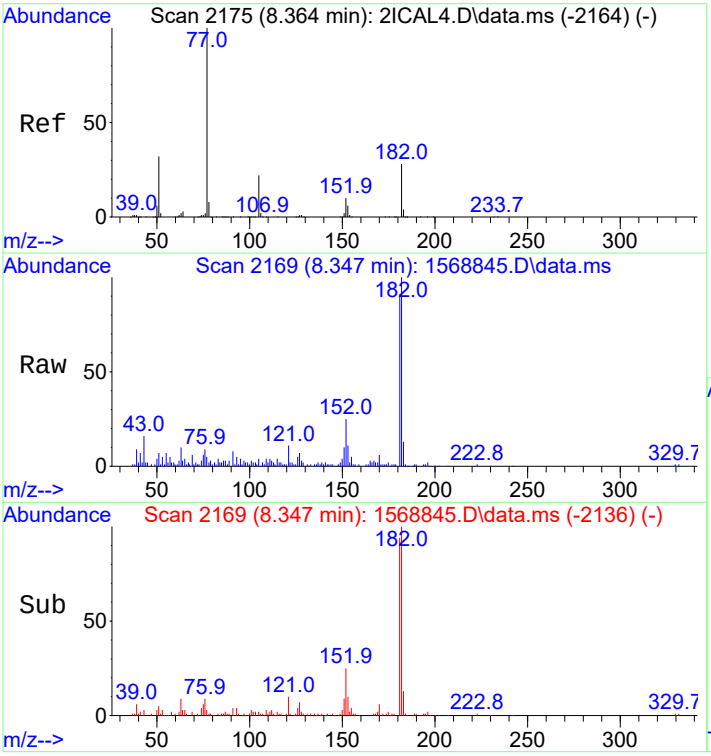




#65
Ntrsdiphlam&Diphlam
Concen: 0.10 ug/mL
RT: 8.327 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:169 Resp: 1850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 980.9 | 37.2 | 97.2# |
| 167 | 677.9 | 6.9 | 66.9# |

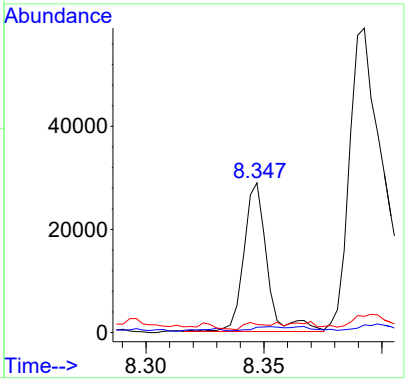


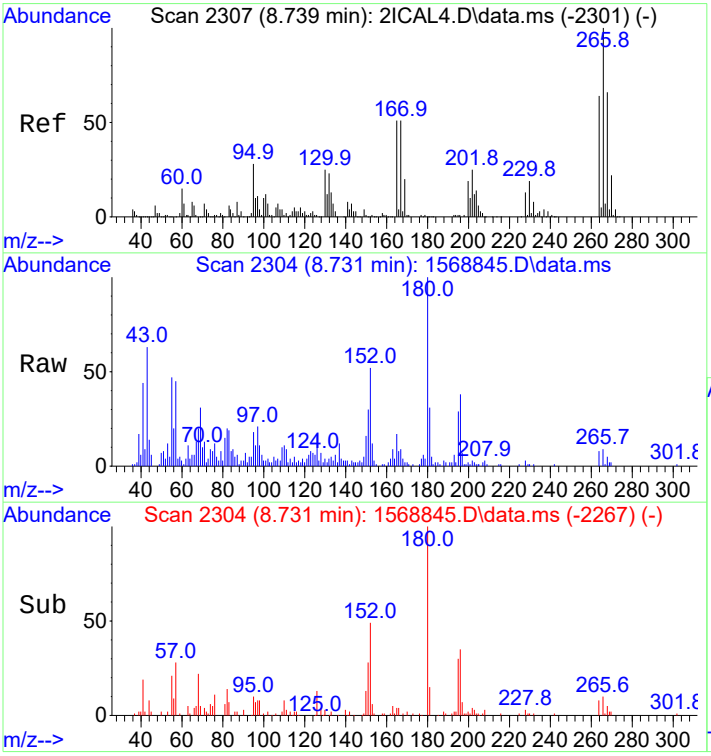



#66
Azobenz&12Diphlhyd
Concen: 2.99 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:182 Resp: 19873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 2.7 | 49.9 | 109.9# |
| 77 | 1.6 | 339.9 | 399.9# |

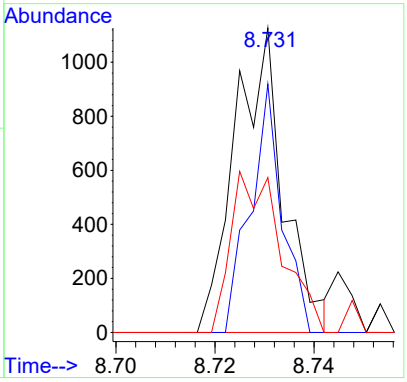


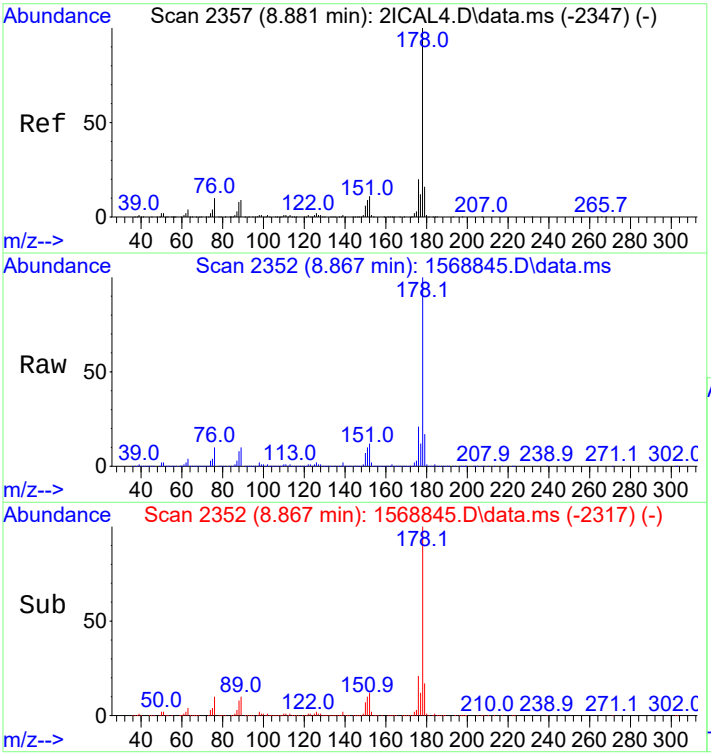




#69
Pentaclphenol
Concen: 3.48 ug/mL
RT: 8.731 min Scan# 2304
Delta R.T. 0.006 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:266 Resp: 768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 81.5 | 34.2 | 94.2 |
| 268 | 50.8 | 36.2 | 96.2 |

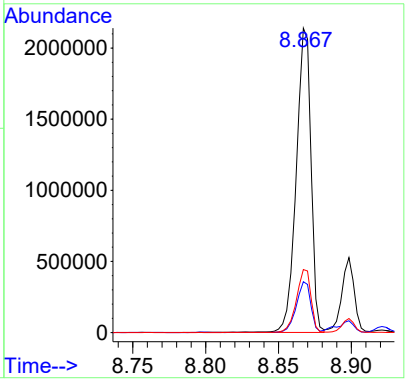


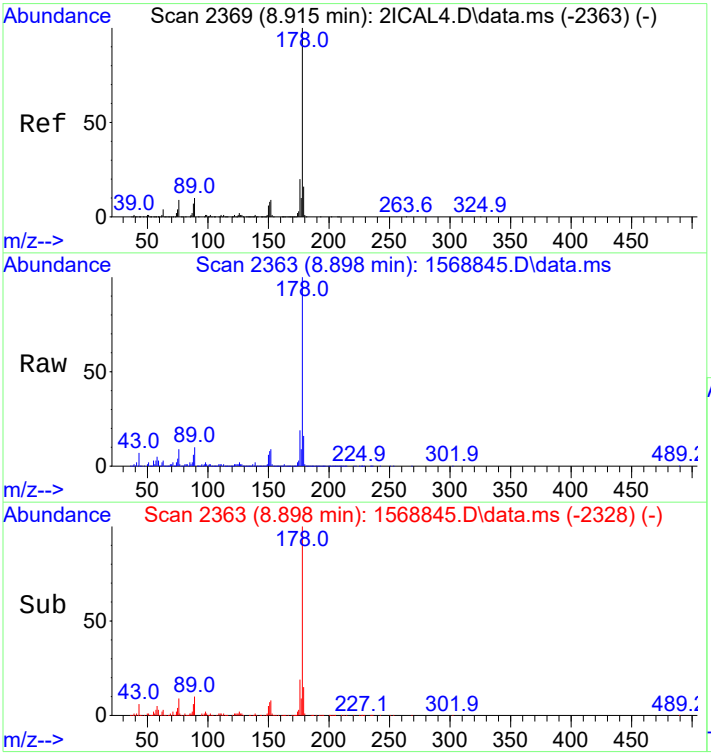



#70
Phenanthrene
Concen: 42.53 ug/mL
RT: 8.867 min Scan# 2352
Delta R.T. -0.000 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:178 Resp: 1498721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.7 | 0.0 | 45.9 |
| 176 | 20.7 | 0.0 | 50.4 |

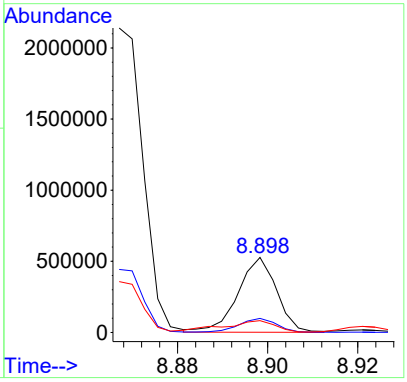


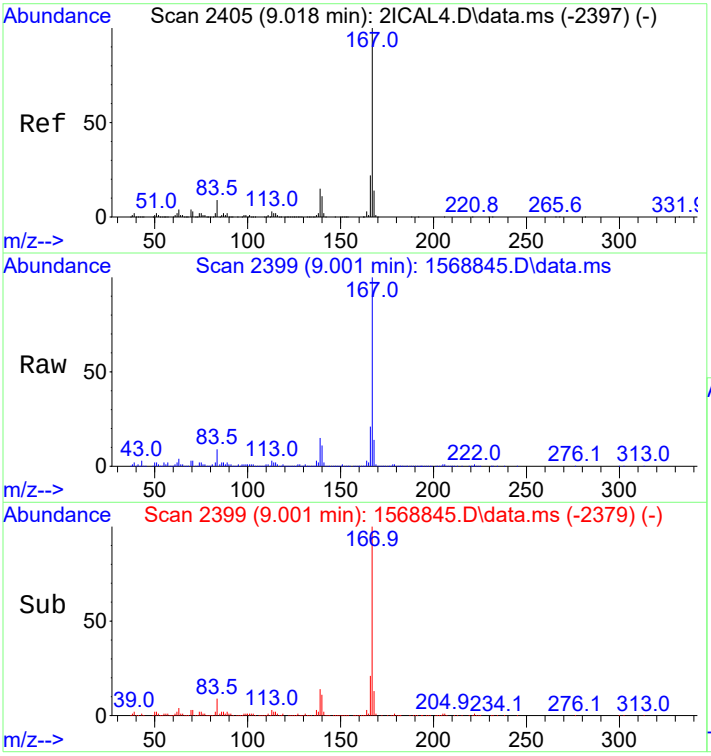




#71
Anthracene
Concen: 8.76 ug/mL
RT: 8.898 min Scan# 2363
Delta R.T. 0.000 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:178 Resp: 314059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 0.0 | 49.5 |
| 179 | 14.8 | 0.0 | 45.9 |

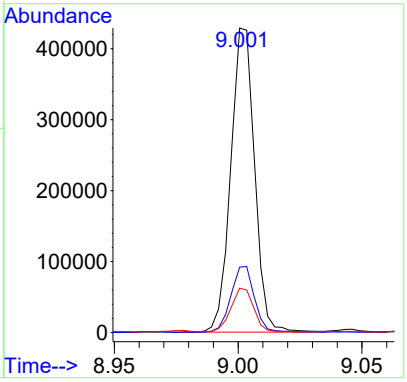


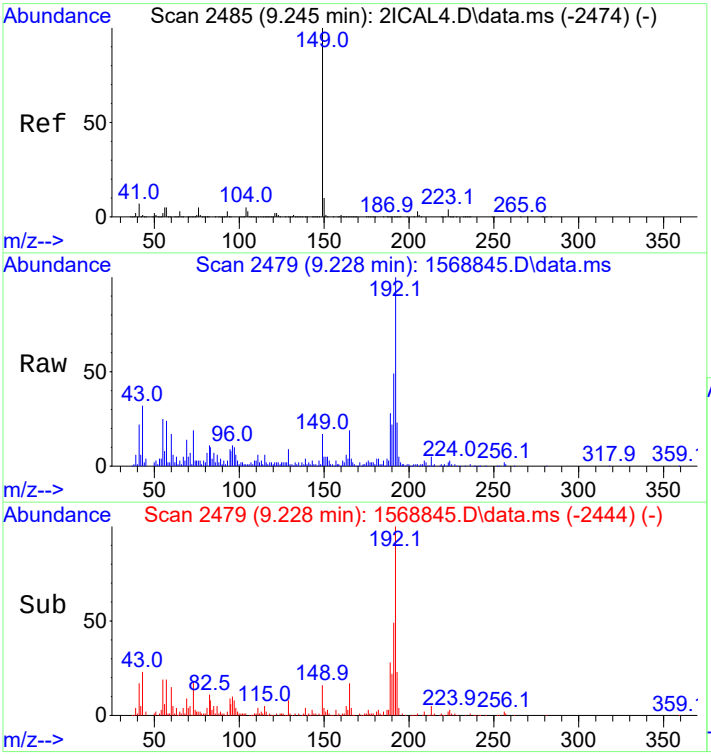



#72
Carbazole
Concen: 9.41 ug/mL
RT: 9.001 min Scan# 2399
Delta R.T. -0.003 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:167 Resp: 287227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.4 | 0.0 | 52.1 |
| 139 | 14.3 | 0.0 | 44.7 |

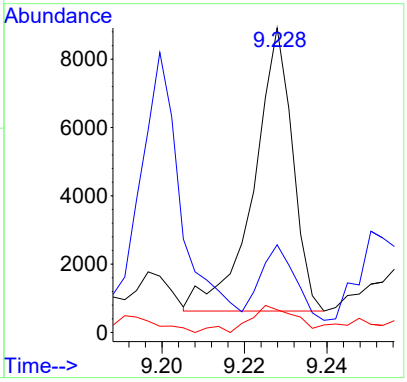


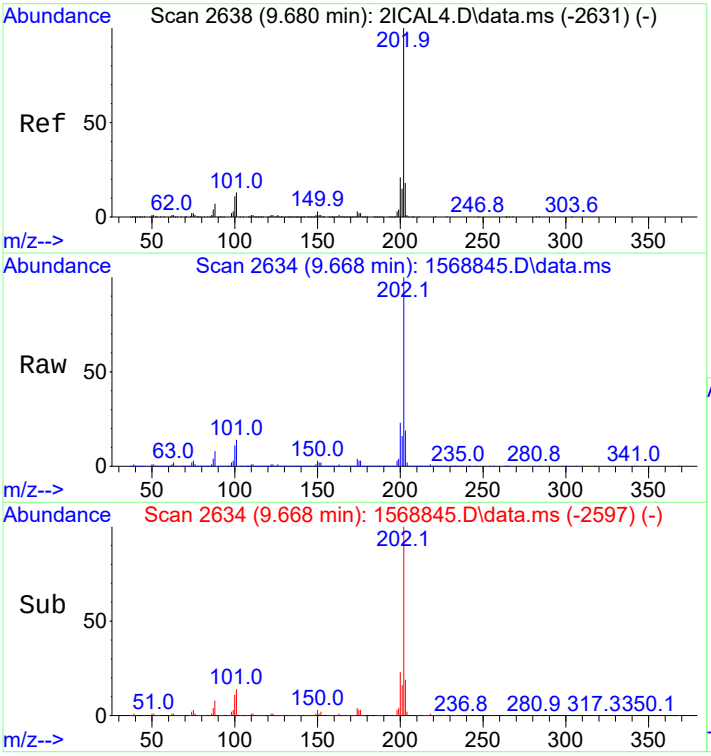




#73
Dinbtylphthal
Concen: 0.13 ug/mL
RT: 9.228 min Scan# 2479
Delta R.T. 0.000 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:149 Resp: 5419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 26.7 | 0.0 | 39.7 |
| 104 | 6.4 | 0.0 | 35.4 |

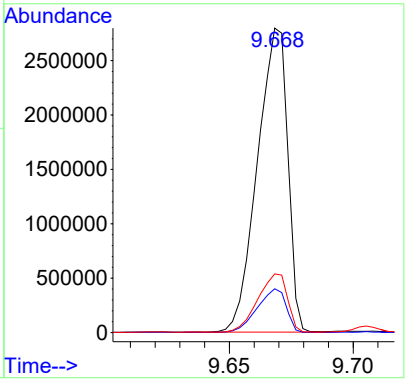


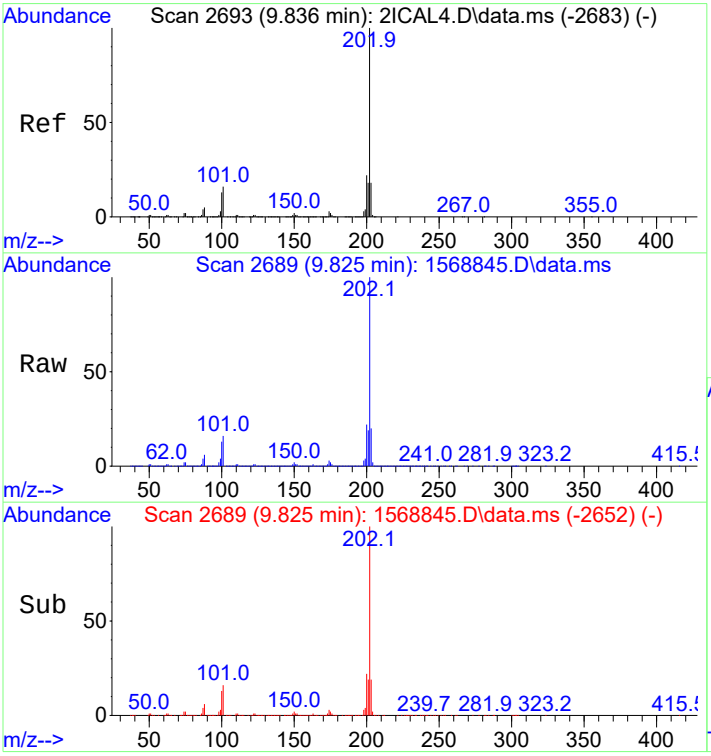



#74
Fluoranthene
Concen: 64.09 ug/mL
RT: 9.668 min Scan# 2634
Delta R.T. 0.006 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:202 Resp: 2384639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.4 | 0.0 | 43.0 |
| 203 | 19.2 | 0.0 | 48.2 |

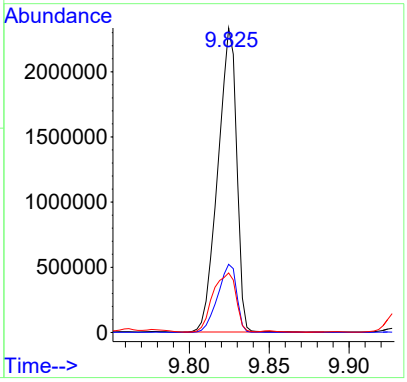


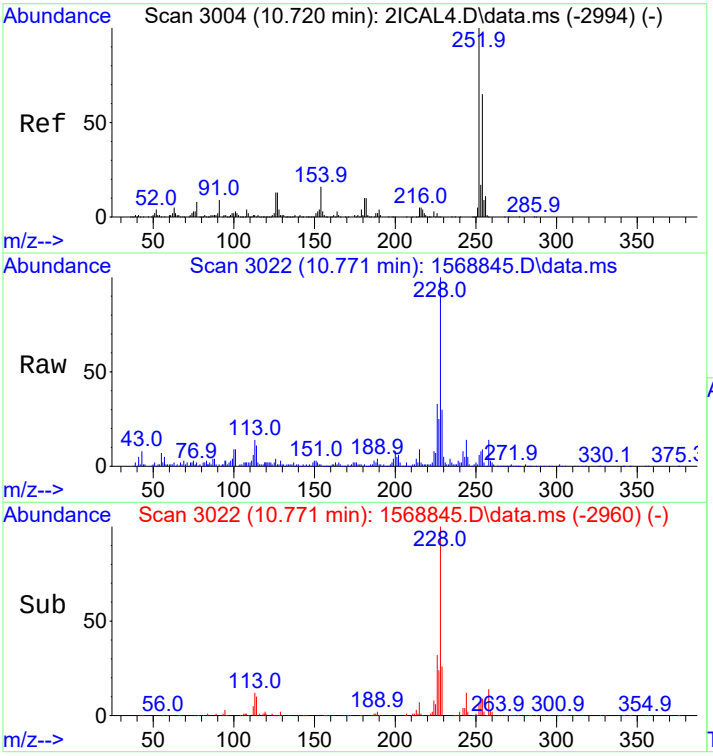




#77
Pyrene
Concen: 51.99 ug/mL
RT: 9.825 min Scan# 2689
Delta R.T. 0.006 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:202 Resp: 1908613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.4 | 0.0 | 52.2 |
| 203 | 19.5 | 0.0 | 48.2 |

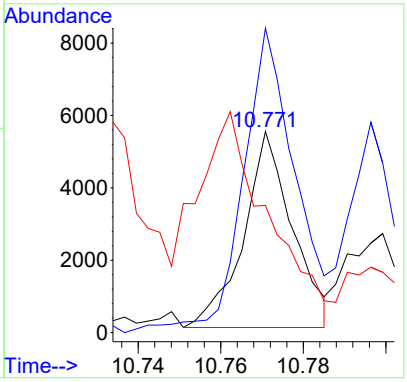


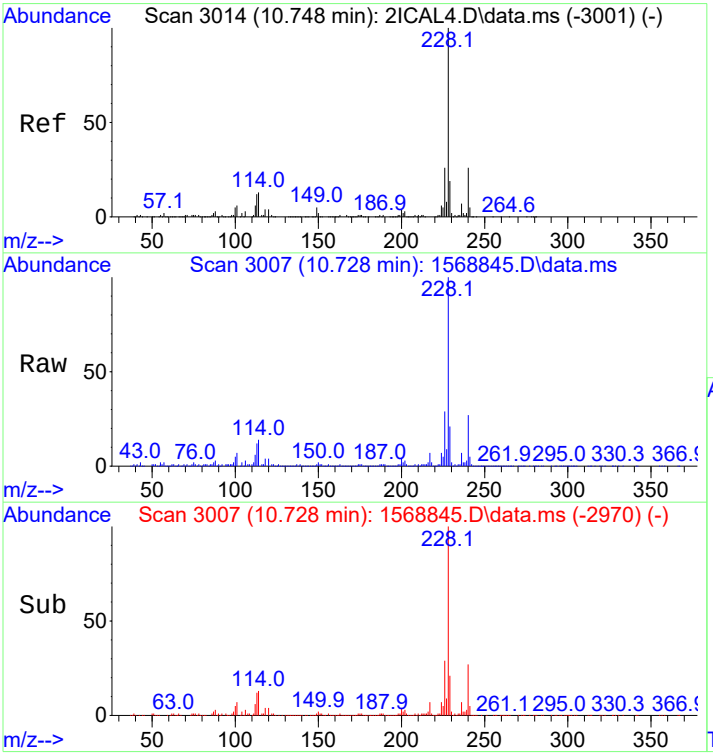



#81
33Diclbnzidin
Concen: 0.33 ug/mL
RT: 10.771 min Scan# 3022
Delta R.T. 0.077 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:252 Resp: 4434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 150.0 | 34.6 | 94.6# |
| 126 | 48.7 | 0.0 | 42.6# |

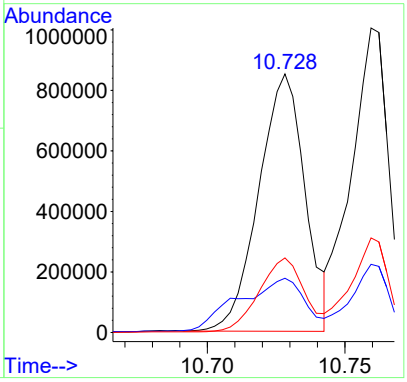


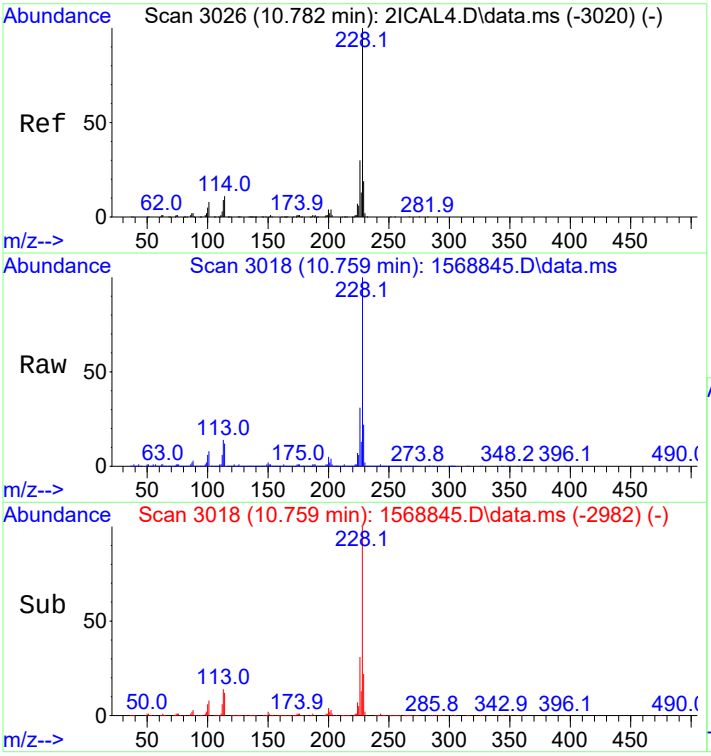




#82
B[a]anthracen
Concen: 28.52 ug/mL
RT: 10.728 min Scan# 3007
Delta R.T. 0.006 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:228 Resp: 992270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.3 | 0.0 | 49.4 |
| 226 | 28.8 | 0.0 | 56.5 |

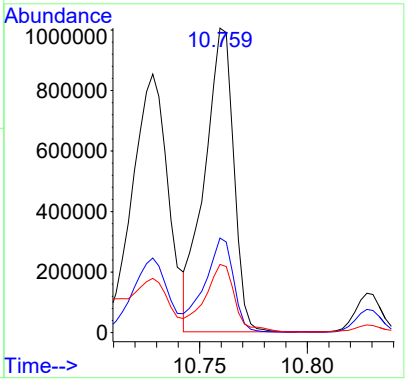


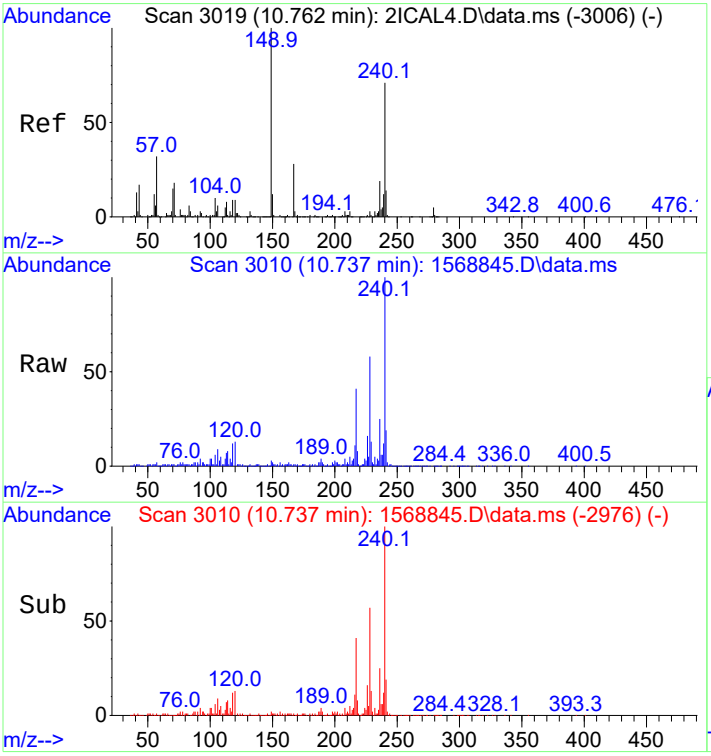



#83
Chrysene
Concen: 29.03 ug/mL
RT: 10.759 min Scan# 3018
Delta R.T. 0.003 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:228 Resp: 947456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.9 | 0.0 | 59.9 |
| 229 | 22.2 | 0.0 | 49.5 |

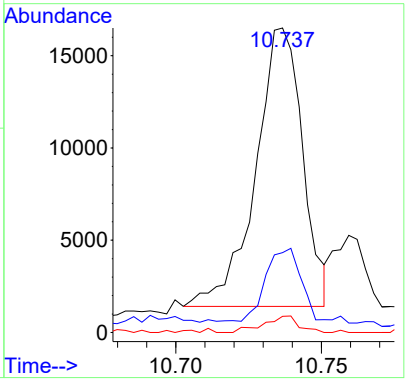


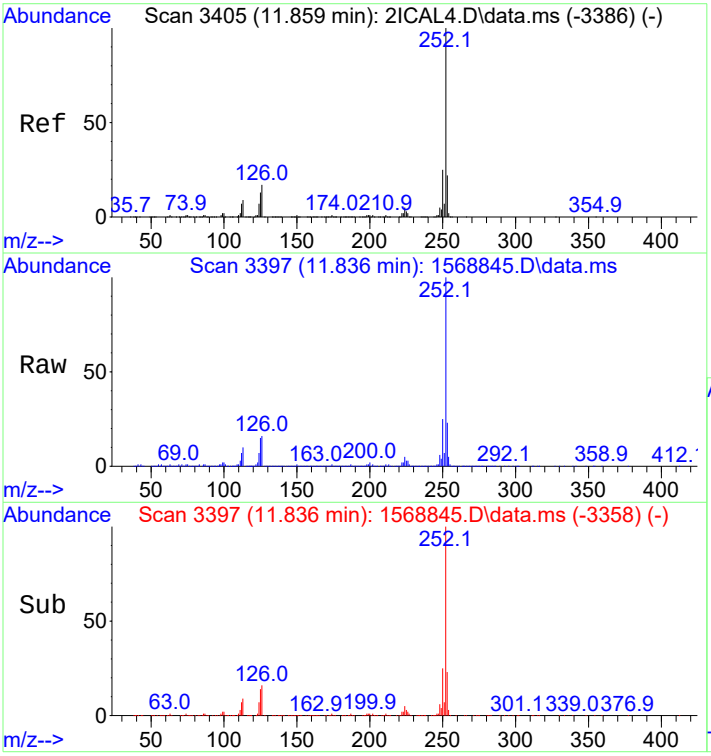




#84
bis2Ethlhxlph
Concen: 0.64 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. -0.003 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:149 Resp: 16958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 24.3 | 0.0 | 57.9 |
| 279 | 5.8 | 0.0 | 34.9 |

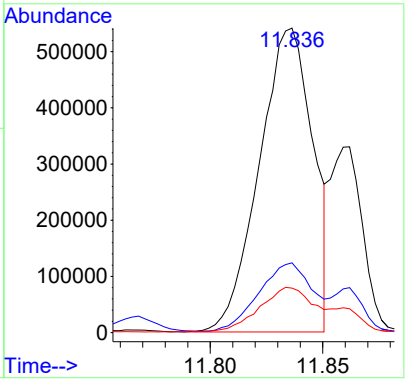


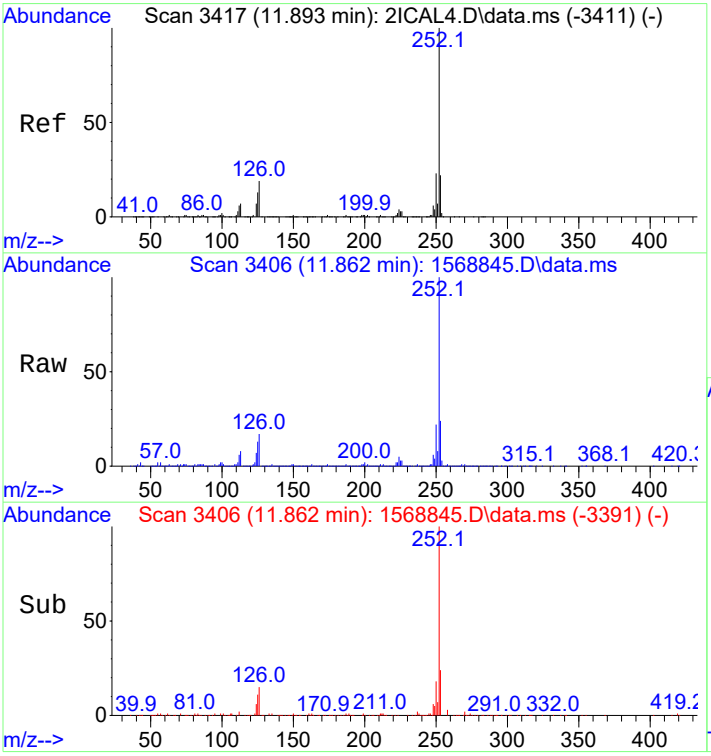



#87
B[b]fluoranth
Concen: 49.20 ug/mL
RT: 11.836 min Scan# 3397
Delta R.T. 0.011 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:252 Resp: 899079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 0.0 | 52.3 |
| 125 | 14.3 | 0.0 | 43.2 |

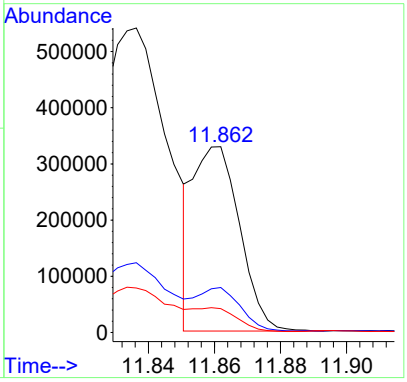


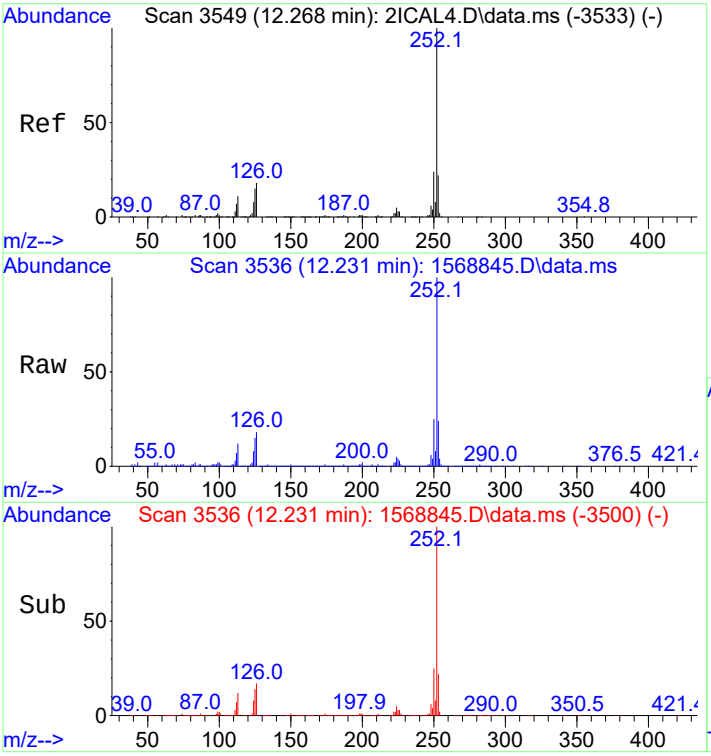




#88
B[k]fluoranth
Concen: 17.49 ug/mL
RT: 11.862 min Scan# 3406
Delta R.T. 0.003 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:252 Resp: 320271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.5 | 0.0 | 52.0 |
| 125 | 12.0 | 0.0 | 43.3 |

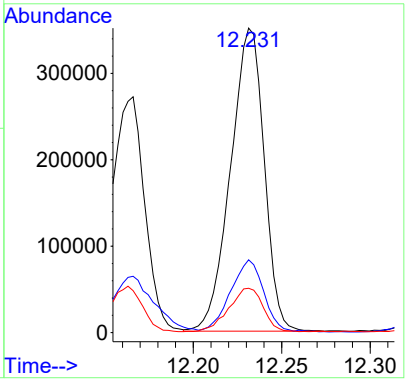


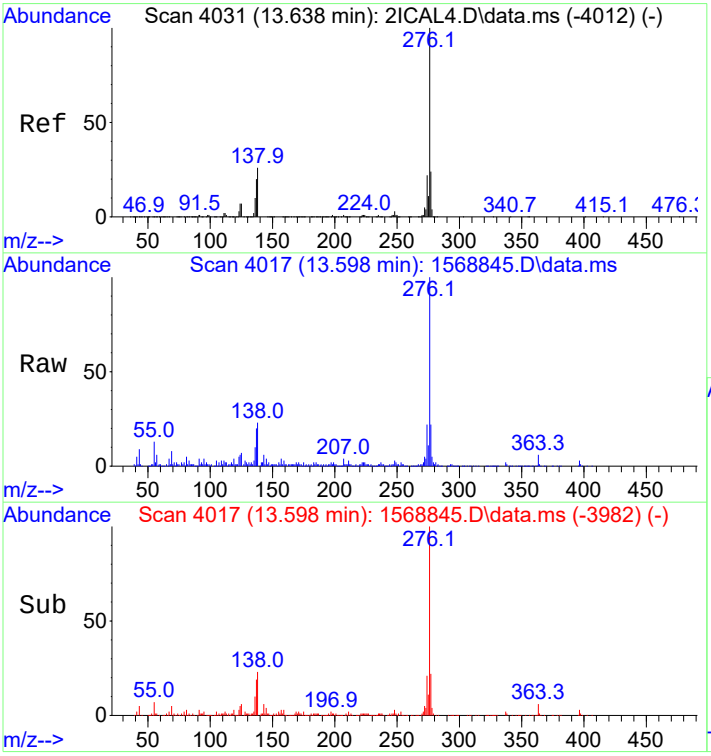



#89
Benz[a]pyrene
Concen: 27.58 ug/mL
RT: 12.231 min Scan# 3536
Delta R.T. 0.003 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:252 Resp: 463445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 0.0 | 52.3 |
| 125 | 14.3 | 0.0 | 45.1 |

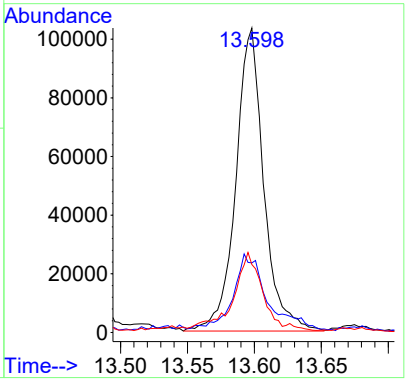


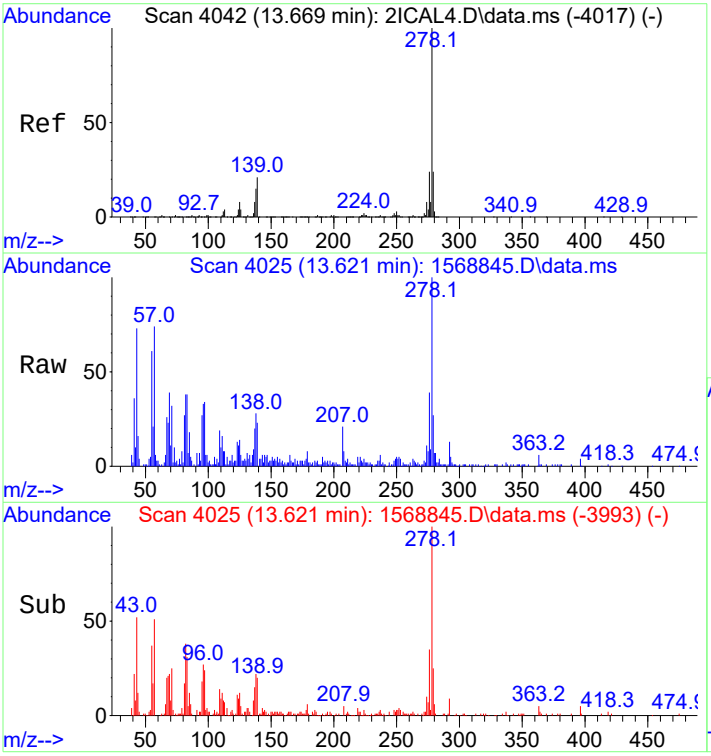




#90
Indeno-pyrene
Concen: 8.09 ug/mL
RT: 13.598 min Scan# 4017
Delta R.T. 0.000 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:276 Resp: 150401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 21.8 | 0.0 | 55.5 |
| 277 | 21.6 | 0.0 | 54.0 |

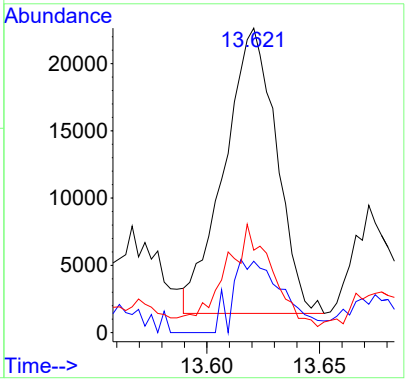


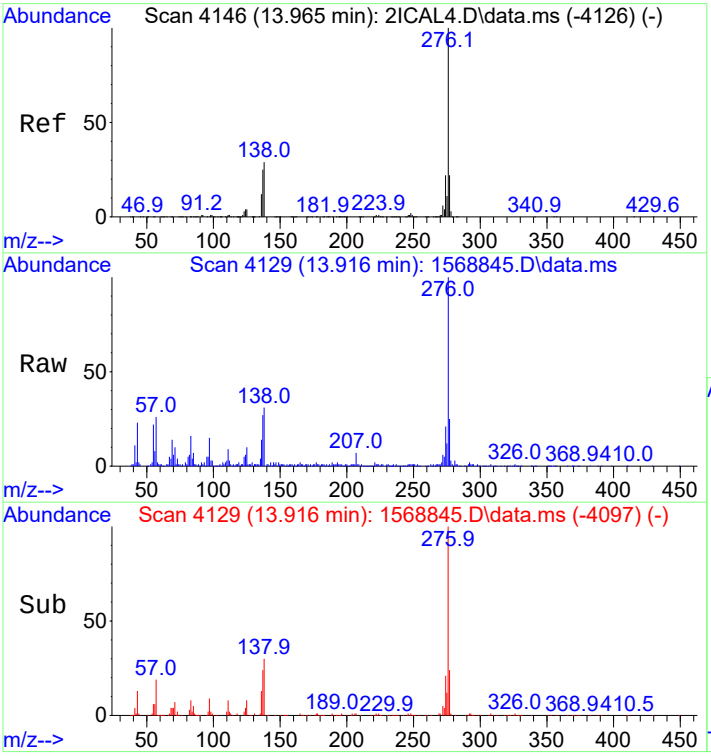



#91
Dib[ah]anthr
Concen: 2.24 ug/mL
RT: 13.621 min Scan# 4025
Delta R.T. -0.009 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:278 Resp: 34109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 25.0 | 0.0 | 50.9 |
| 279 | 25.1 | 0.0 | 54.4 |

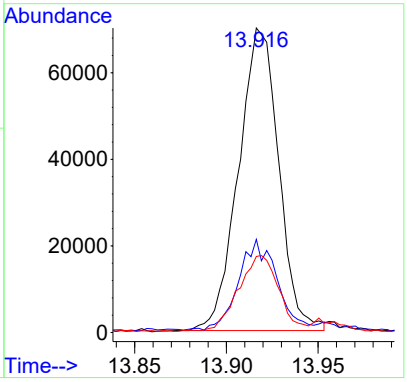



#92
B[ghi]perylen
Concen: 7.32 ug/mL
RT: 13.916 min Scan# 4129
Delta R.T. -0.009 min
Lab File: 1568845.D
Acq: 10 Apr 2025 21:34

Tgt Ion:276 Resp: 106564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 30.0 | 0.0 | 59.0 |
| 277 | 24.5 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568822.D Vial: 35
Acq On : 10 Apr 2025 21:57 Operator: ALD
Sample : 290730,1568822, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 22:13:47 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 14Diclbenzd4 | 4.329 | 152 | 178459 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.020 | 136 | 890688 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 501965 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.858 | 188 | 714430 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.762 | 240 | 533843 | 20.00 | ug/mL | 0.03 |
| 86) Perylene-d12 | 12.322 | 264 | 302020 | 20.00 | ug/mL | 0.02 |
| **System Monitoring Compounds** | | | | | | |
| 4) SURR2Flphenol | 3.102 | 112 | 147867 | 34.41 | %REC | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 34.41% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 197652 | 38.27 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 38.27% | | | |
| 22) SURRNitrbenzened5 | 5.011 | 82 | 84432 | 34.79 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 34.79% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 233504 | 38.99 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 38.99% | | | |
| 62) SURR246Tribrphenl | 8.401 | 330 | 56690 | 42.19 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 42.19% | | | |
| 78) SURRTerphenyl-d14 | 9.924 | 244 | 270587 | 51.98 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.98% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.272 | 74 | 451 | 0.0653 | ug/mL# | 1 |
| 3) Pyridine | 2.610 | 79 | 3537 | 0.2865 | ug/mL | 86 |
| 8) Phenol | 3.929 | 94 | 2745 | 0.2074 | ug/mL | 71 |
| 14) bis2clispreth | 4.633 | 45 | 1921 | 0.0936 | ug/mL | 66 |
| 17) Acetophenone | 4.821 | 105 | 1581 | 0.0947 | ug/mL# | 74 |
| 18) Hexaclethane | 5.028 | 117 | 1110 | 0.2195 | ug/mL# | 13 |
| 20) 3&4Methylphenol | 4.835 | 107 | 3416 | 0.2856 | ug/mL | 82 |
| 26) 24Dimthpheno | 5.676 | 122 | 2636 | 0.2202 | ug/mL# | 5 |
| 30) Benzoic acid | 5.801 | 122 | 3543 | 3.4055 | ug/mL# | 10 |
| 31) Naphthalene | 6.045 | 128 | 320747 | 7.8083 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.094 | 127 | 165 | 0.0103 | ug/mL# | 41 |
| 37) 2Methylnaphth | 6.841 | 142 | 101996 | 4.1083 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.938 | 142 | 71292 | 2.7766 | ug/mL | 96 |
| 47) Acnaphthylene | 7.674 | 152 | 32682 | 0.8045 | ug/mL | 96 |
| 50) Acenaphthene | 7.827 | 154 | 810744 | 33.5794 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.827 | 138 | 1222 | 0.4076 | ug/mL# | 7 |
| 53) Dibenzofuran | 7.969 | 168 | 555810 | 15.9412 | ug/mL | 97 |
| 54) 24Dinitrotolu | 7.961 | 165 | 1841 | 0.2089 | ug/mL# | 1 |
| 55) 4-Nitrophenol | 7.969 | 65 | 3266 | 1.8753 | ug/mL# | 1 |
| 58) Fluorene | 8.239 | 166 | 654426 | 24.5531 | ug/mL | 96 |
| 60) Diethylphthal | 8.159 | 149 | 1214 | 0.0411 | ug/mL | 89 |
| 61) 4Nitroaniline | 8.239 | 138 | 8317 | 1.6392 | ug/mL# | 39 |
| 65) Ntrsdiphlam&Diphlam | 8.299 | 169 | 41289 | 2.2415 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 118197 | 17.9952 | ug/mL# | 1 |
| 70) Phenanthrene | 8.887 | 178 | 7013064 | 201.4863 | ug/mL | 85 |
| 71) Anthracene | 8.910 | 178 | 1698765 | 47.9700 | ug/mL | 97 |
| 72) Carbazole | 9.009 | 167 | 1728810 | 57.3305 | ug/mL | 98 |
| 73) Dinbtylphthal | 9.231 | 149 | 5887 | 0.1396 | ug/mL# | 20 |
| 74) Fluoranthene | 9.697 | 202 | 9940679 | 270.4633 | ug/mL | 86 |
| 76) Benzidine | 9.810 | 184 | 3224 | 0.2811 | ug/mL | 93 |
| 77) Pyrene | 9.853 | 202 | 8127237 | 239.6799 | ug/mL | 86 |
| 81) 33Diclbnzidin | 10.748 | 252 | 585 | Below Cal | # | 1 |
| 82) B[a]anthracen | 10.754 | 228 | 5066911 | 157.6490 | ug/mL | 94 |
| 83) Chrysene | 10.791 | 228 | 4179942 | 138.6708 | ug/mL | 91 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568822.D Vial: 35
Acq On : 10 Apr 2025 21:57 Operator: ALD
Sample : 290730,1568822, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 22:13:47 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

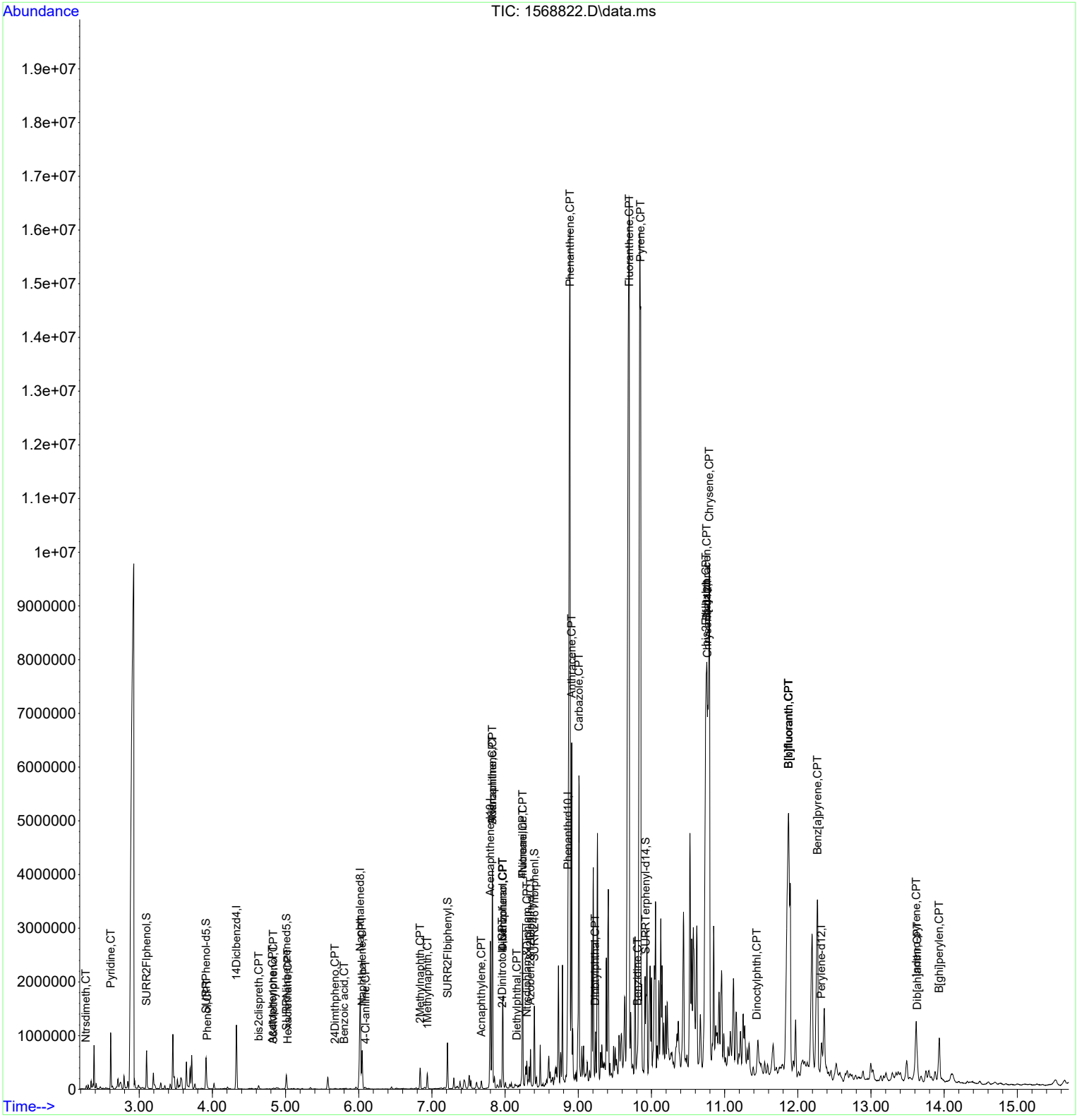
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 84) bis2Ethlhxlph | 10.745 | 149 | 32781 | 1.3402 ug/mL | 78 |
| 85) Dinoctylphthl | 11.438 | 149 | 10900 | 0.5766 ug/mL# | 59 |
| 87) B[b]fluoranth | 11.873 | 252 | 3743707 | 234.0032 ug/mL | 95 |
| 88) B[k]fluoranth | 11.873 | 252 | 1509259 | 94.1571 ug/mL | 95 |
| 89) Benz[a]pyrene | 12.268 | 252 | 1947365 | 132.3574 ug/mL | 98 |
| 90) Indeno-pyrene | 13.618 | 276 | 597337 | 36.7070 ug/mL | 98 |
| 91) Dib[ah]anthr | 13.632 | 278 | 141222 | 10.6165 ug/mL | 96 |
| 92) B[ghi]perylen | 13.933 | 276 | 435323 | 34.1441 ug/mL | 97 |

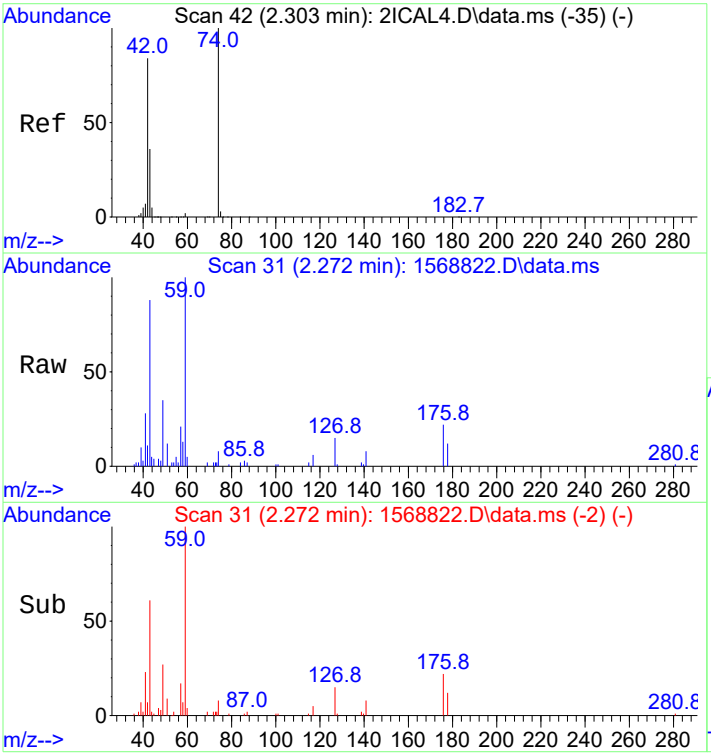
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568822.D Vial: 35
Acq On : 10 Apr 2025 21:57 Operator: ALD
Sample : 290730,1568822, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 22:13:47 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

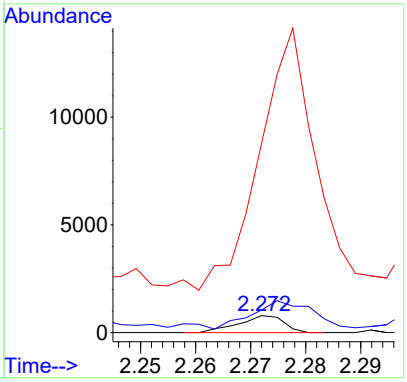


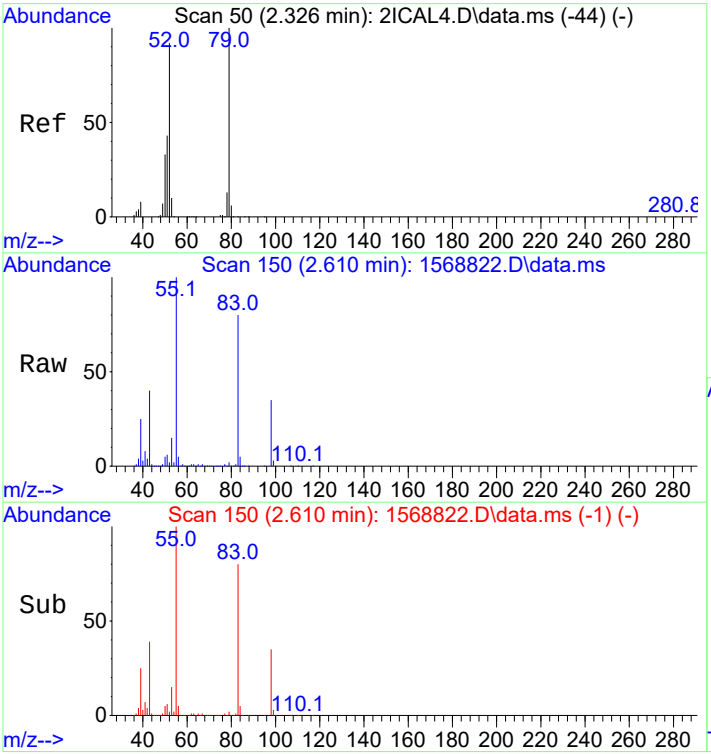



#2
Ntrsdimeth
Concen: 0.07 ug/mL
RT: 2.272 min Scan# 31
Delta R.T. -0.017 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion: 74 Resp: 451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 80.8 | 53.9 | 113.9 |
| 43 | 857.1 | 6.0 | 66.0# |

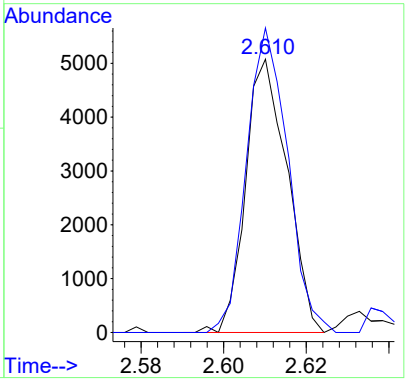


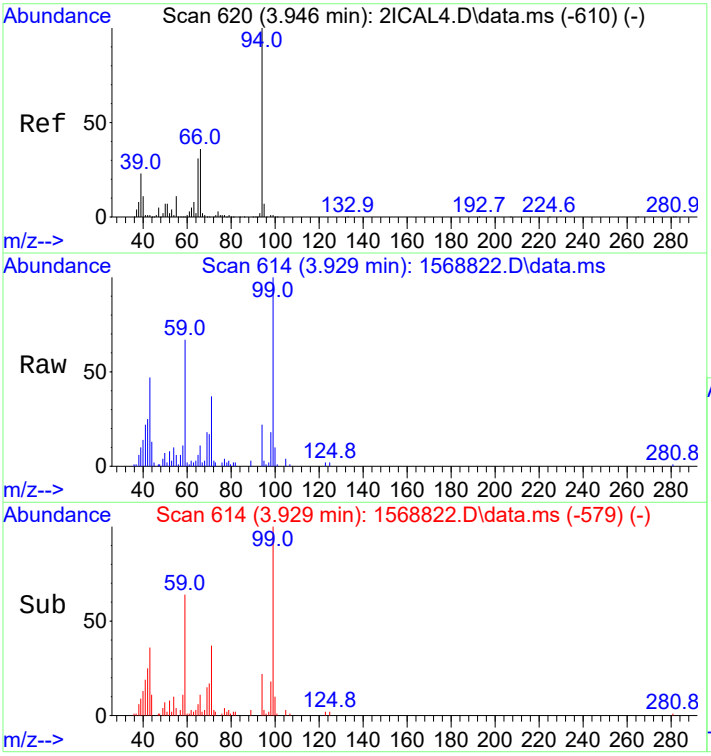




#3
Pyridine
Concen: 0.29 ug/mL
RT: 2.610 min Scan# 150
Delta R.T. 0.301 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion: 79 Resp: 3537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 105.6 | 62.5 | 122.5 |

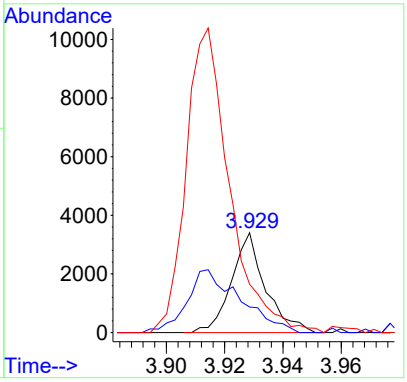


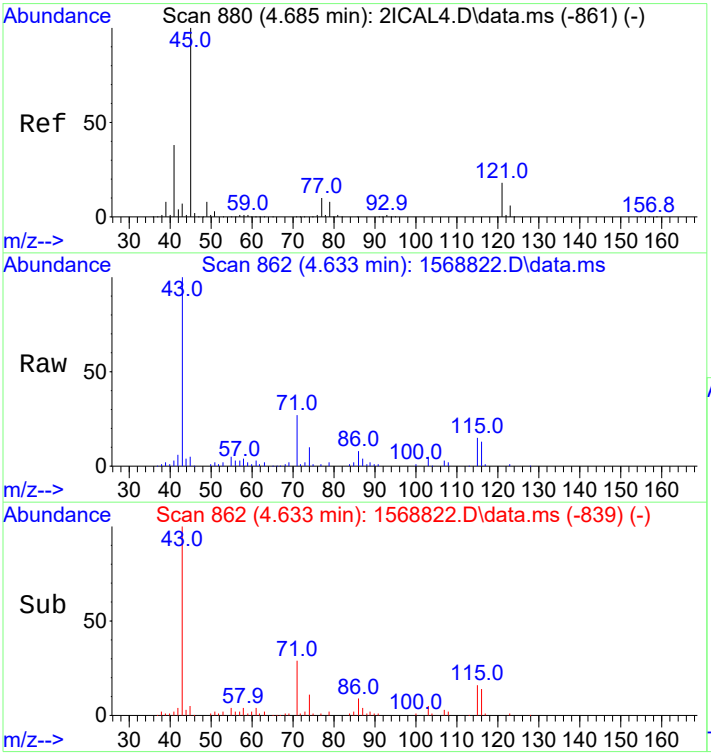



#8
Phenol
Concen: 0.21 ug/mL
RT: 3.929 min Scan# 614
Delta R.T. -0.000 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion: 94 Resp: 2745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 18.3 | 0.7 | 60.7 |
| 66 | 56.4 | 6.4 | 66.4 |

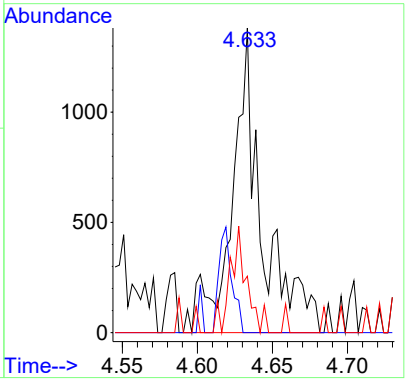


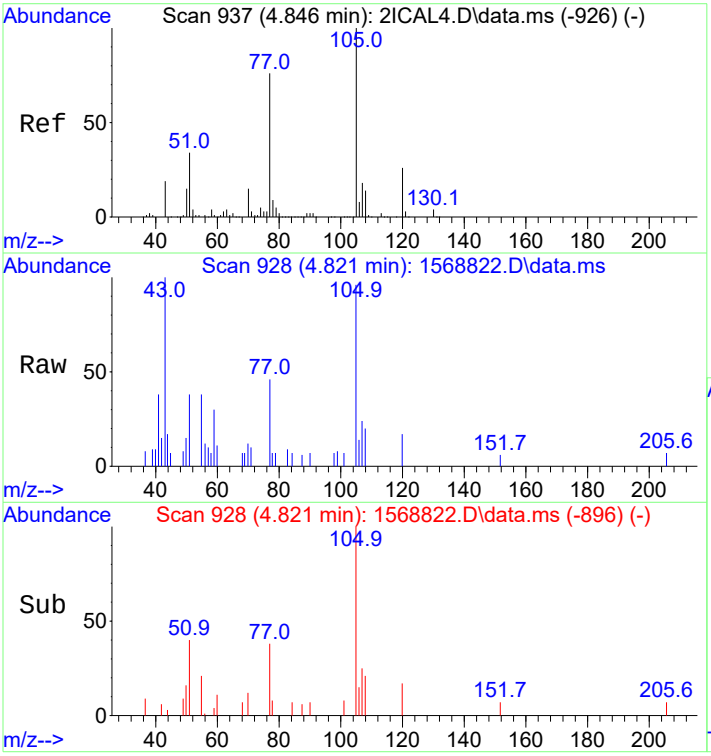




#14
bis2clispreth
Concen: 0.09 ug/mL
RT: 4.633 min Scan# 862
Delta R.T. -0.034 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion: 45 Resp: 1921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 0.0 | 0.0 | 47.5 |
| 77 | 18.5 | 0.0 | 40.1 |

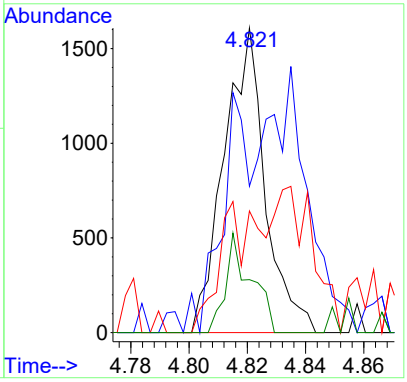


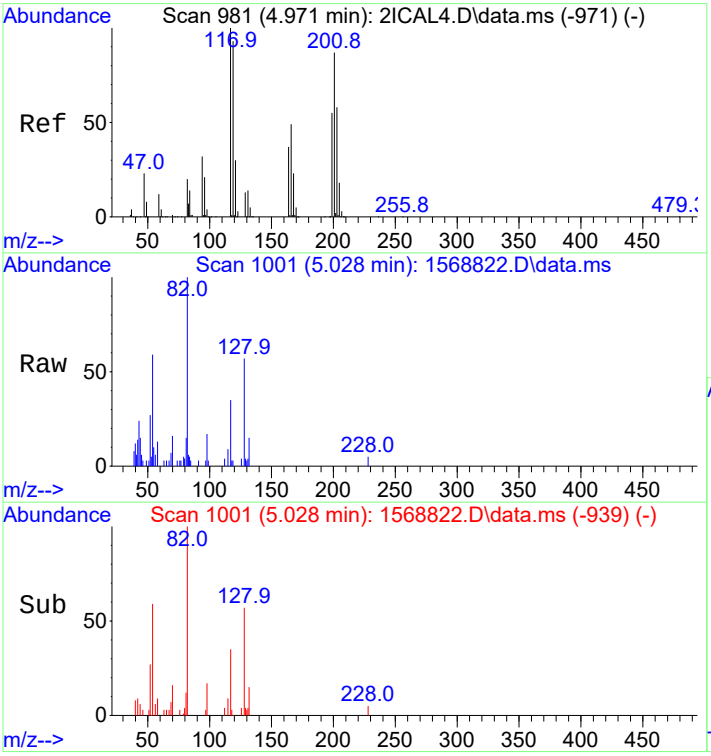



#17
Acetophenone
Concen: 0.09 ug/mL
RT: 4.821 min Scan# 928
Delta R.T. -0.009 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:105 Resp: 1581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 43.2 | 46.3 | 106.3# |
| 51 | 31.9 | 3.7 | 63.7 |
| 120 | 17.4 | 0.0 | 55.6 |

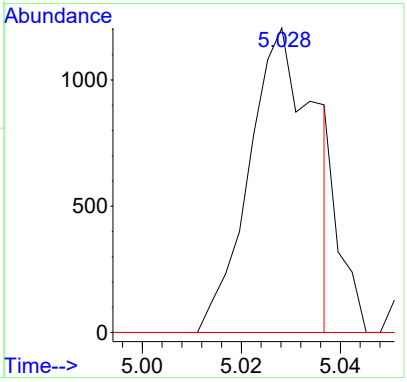


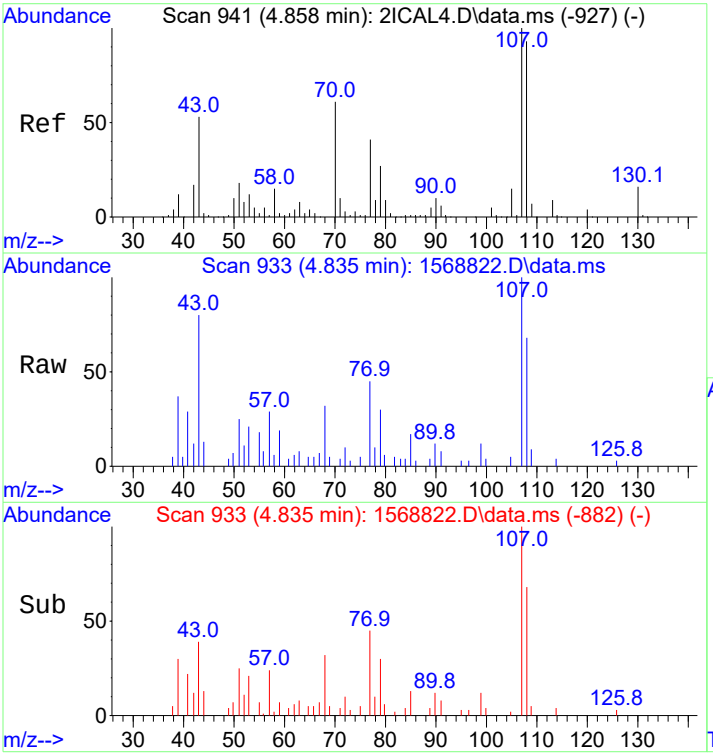




#18
Hexaclethane
Concen: 0.22 ug/mL
RT: 5.028 min Scan# 1001
Delta R.T. 0.077 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:117 Resp: 1110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 0.0 | 56.5 | 116.5# |
| 199 | 0.0 | 25.0 | 85.0# |

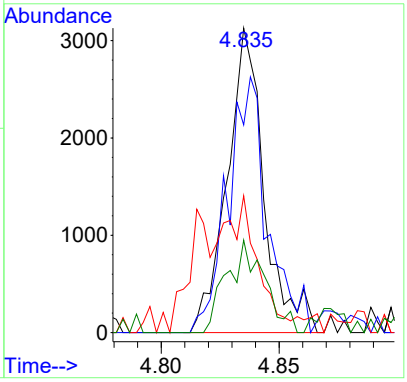


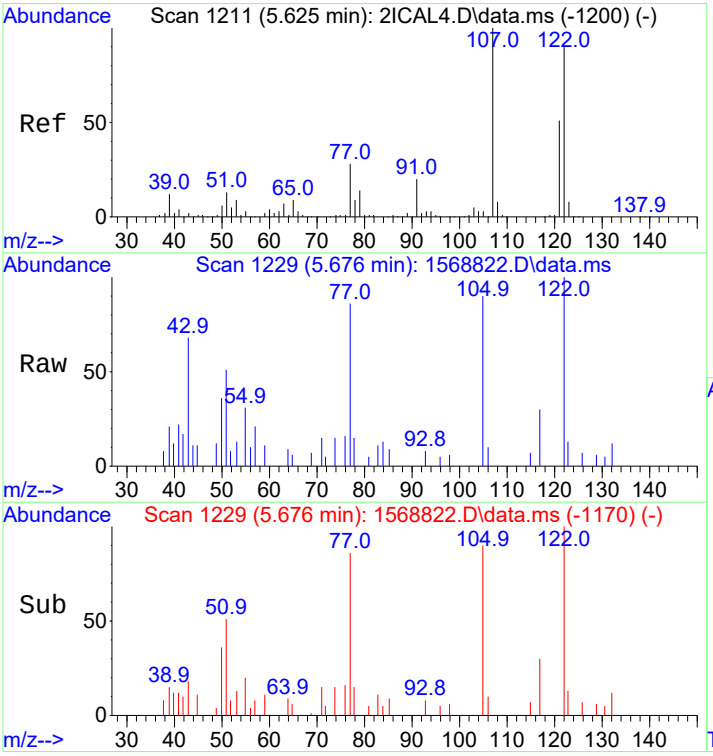



#20
3&4Methylphenol
Concen: 0.29 ug/mL
RT: 4.835 min Scan# 933
Delta R.T. -0.006 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:107 Resp: 3416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 68.2 | 63.3 | 123.3 |
| 77 | 44.9 | 11.4 | 71.4 |
| 79 | 30.4 | 0.0 | 56.9 |

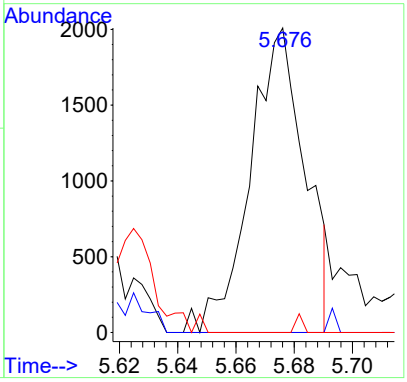


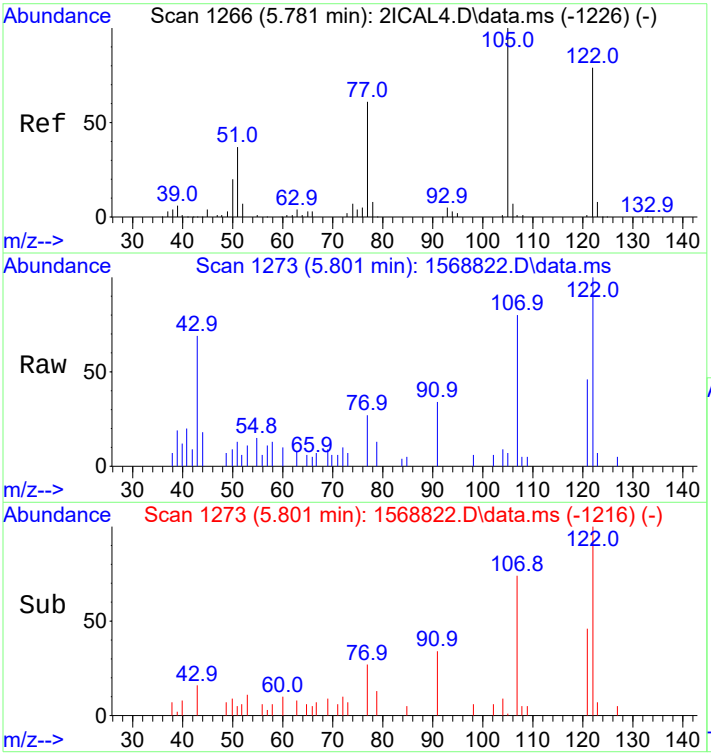




#26
24Dimthpheno
Concen: 0.22 ug/mL
RT: 5.676 min Scan# 1229
Delta R.T. 0.068 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:122 Resp: 2636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 0.0 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

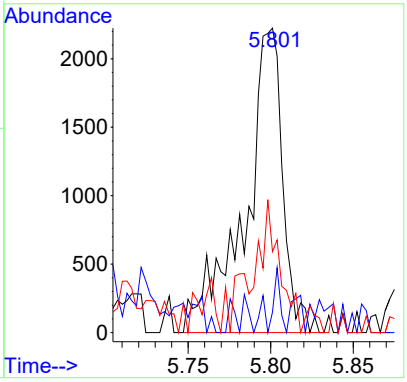


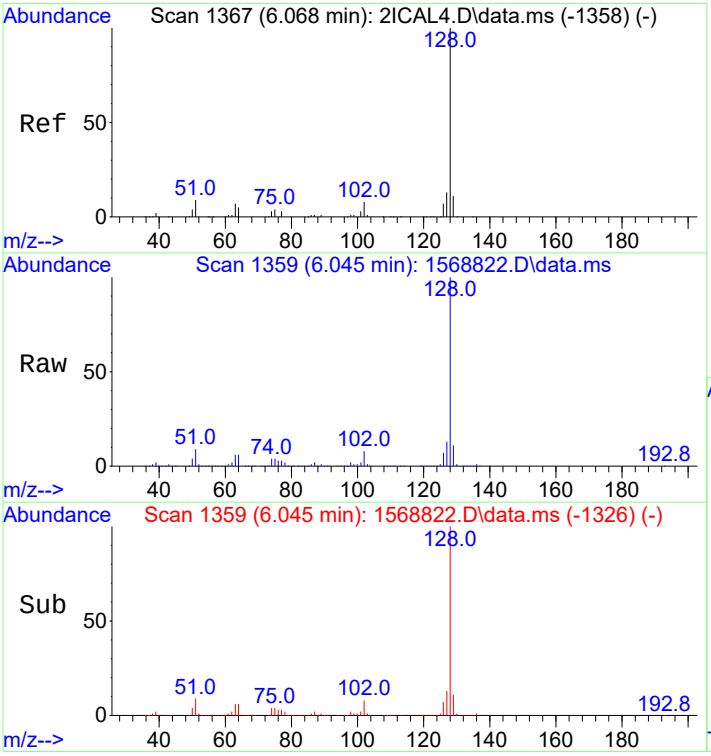



#30
Benzoic acid
Concen: 3.41 ug/mL
RT: 5.801 min Scan# 1273
Delta R.T. 0.031 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:122 Resp: 3543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 0.0 | 96.0 | 156.0# |
| 77 | 26.6 | 46.6 | 106.6# |

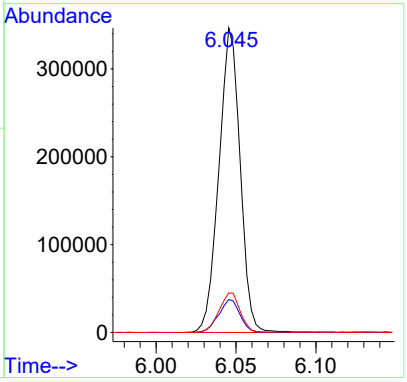


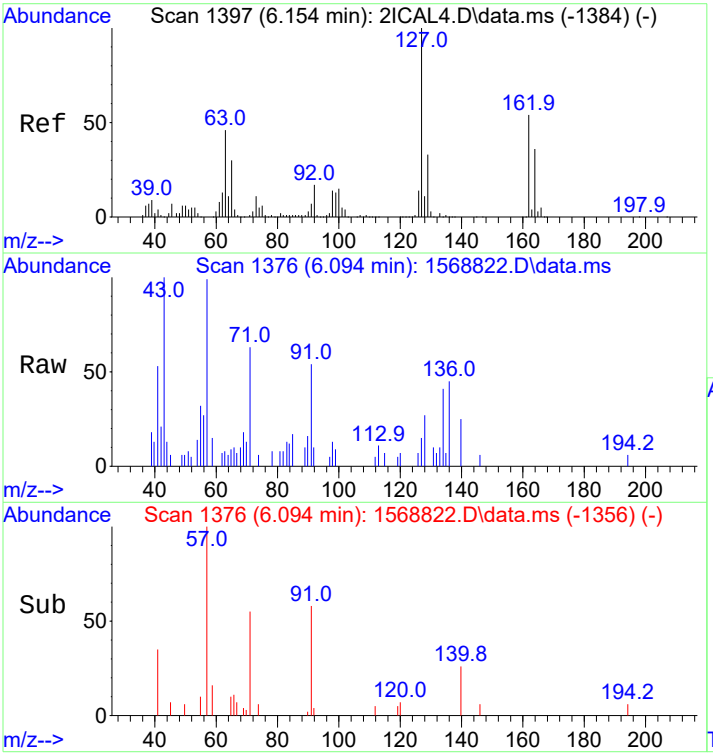




#31
Naphthalene
Concen: 7.81 ug/mL
RT: 6.045 min Scan# 1359
Delta R.T. -0.006 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:128 Resp: 320747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.8 | 0.0 | 41.0 |
| 127 | 13.0 | 0.0 | 43.3 |

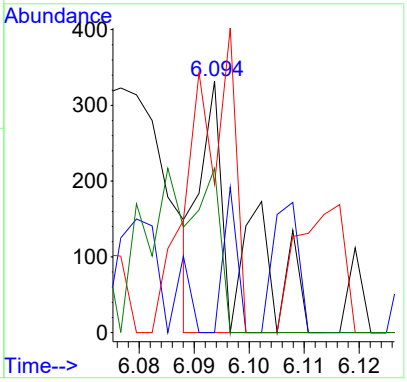


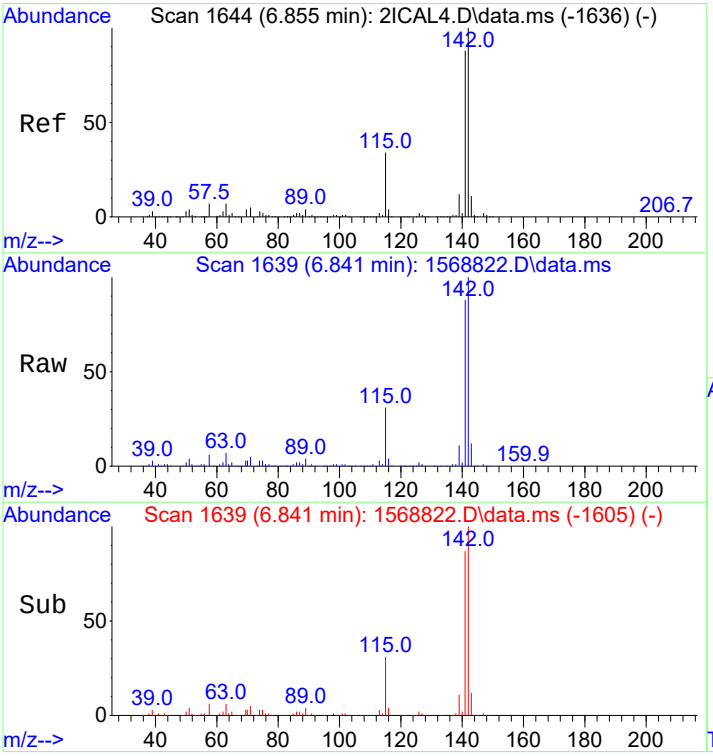



#32
4-Cl-aniline
Concen: 0.01 ug/mL
RT: 6.094 min Scan# 1376
Delta R.T. -0.043 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:127 Resp: 165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 0.0 | 3.1 | 63.1# |
| 65 | 14.5 | 0.2 | 60.2 |
| 92 | 65.4 | 0.0 | 46.7# |

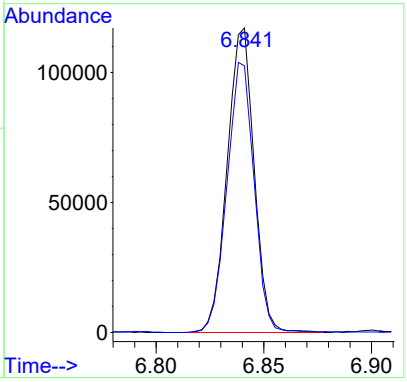


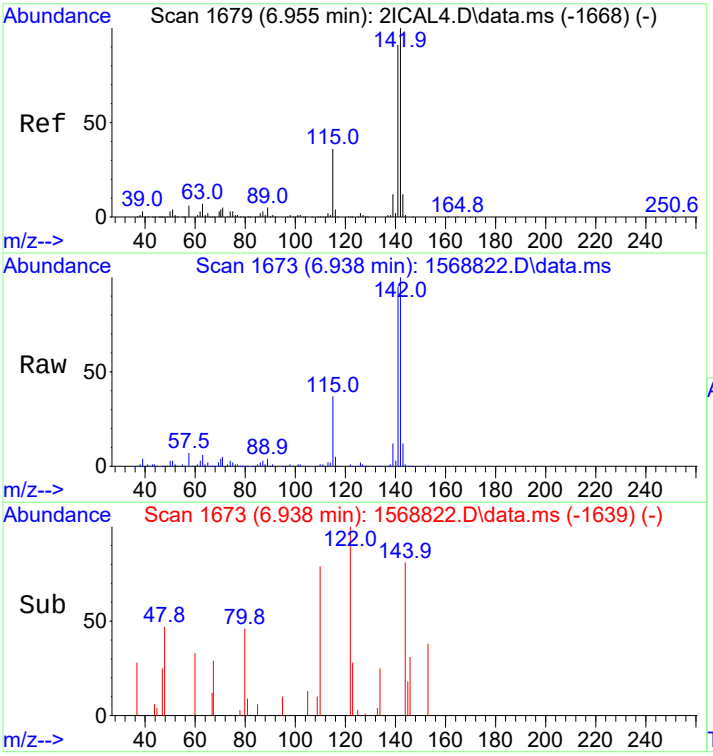




#37
2Methylnaphth
Concen: 4.11 ug/mL
RT: 6.841 min Scan# 1639
Delta R.T. -0.003 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:142 Resp: 101996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.5 | 58.0 | 118.0 |

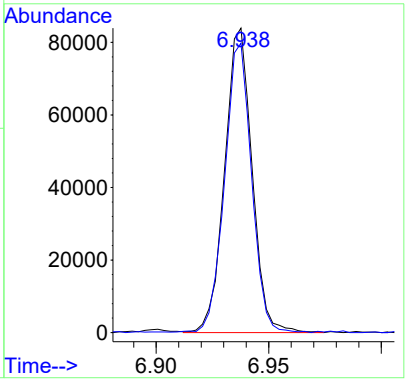


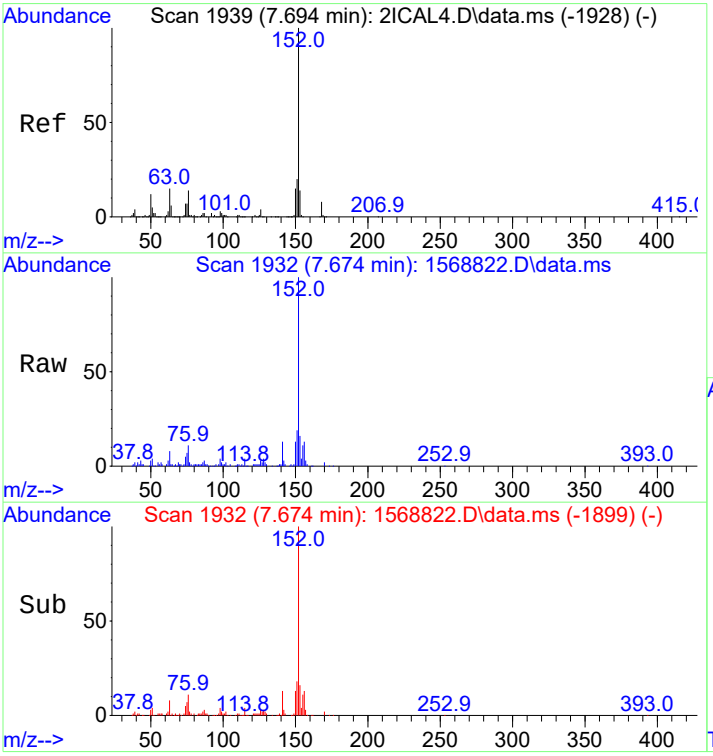



#38
1Methylnaphth
Concen: 2.78 ug/mL
RT: 6.938 min Scan# 1673
Delta R.T. -0.003 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:142 Resp: 71292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 94.9 | 60.7 | 120.7 |

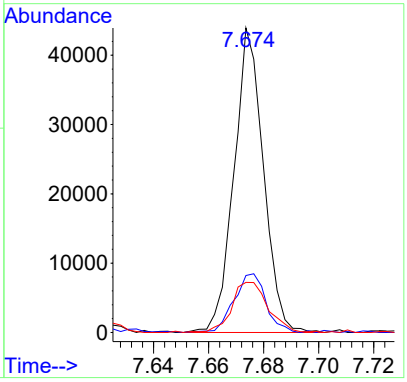


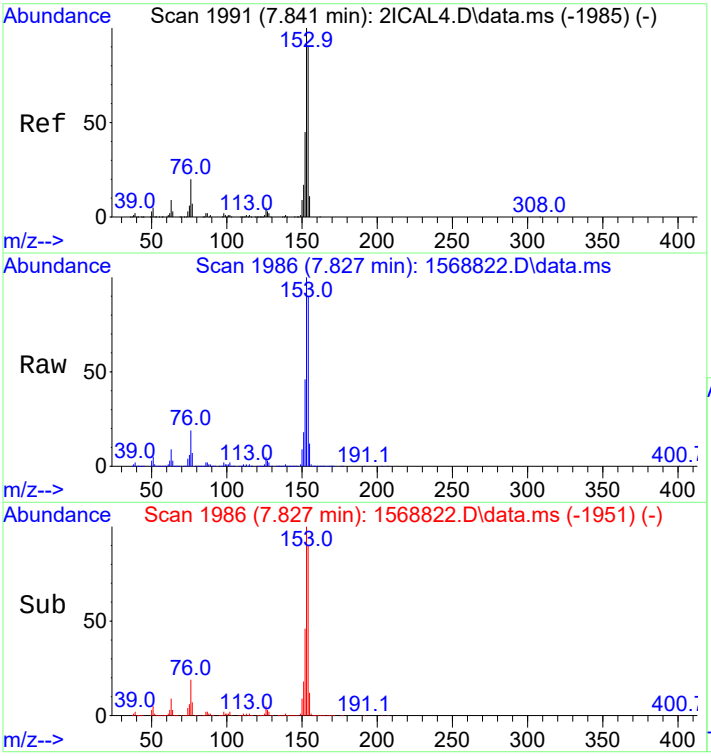




#47
Acnaphthylene
Concen: 0.80 ug/mL
RT: 7.674 min Scan# 1932
Delta R.T. -0.006 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:152 Resp: 32682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 18.7 | 0.0 | 50.3 |
| 153 | 16.5 | 0.0 | 44.4 |

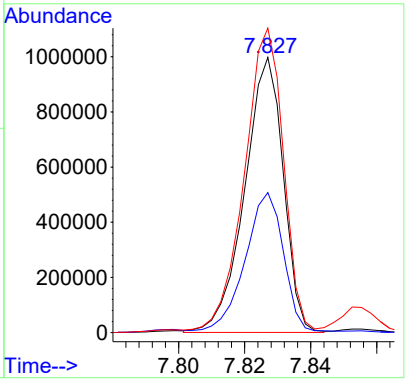


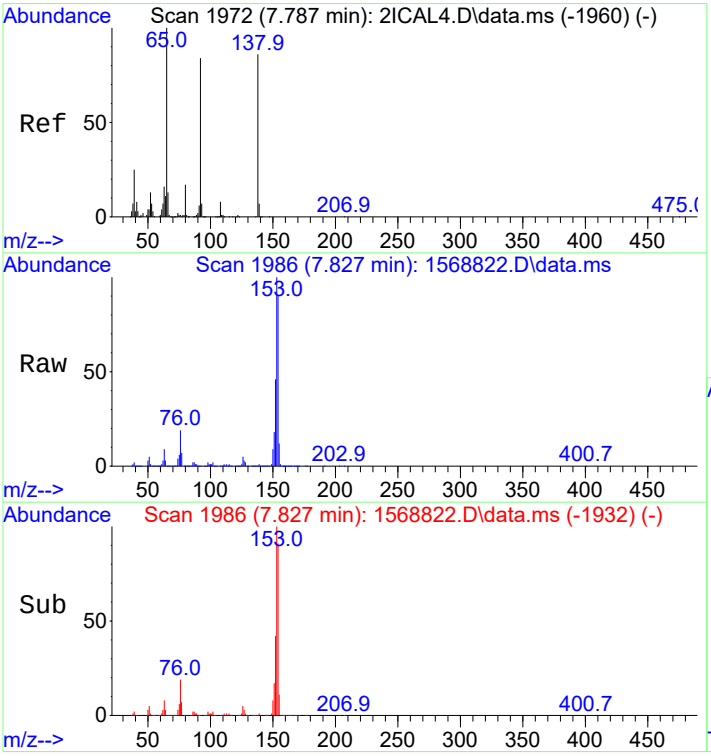



#50
Acenaphthene
Concen: 33.58 ug/mL
RT: 7.827 min Scan# 1986
Delta R.T. -0.000 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:154 Resp: 810744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 50.5 | 20.0 | 80.0 |
| 153 | 110.2 | 80.7 | 140.7 |

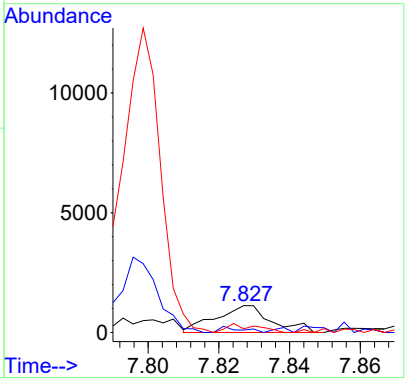


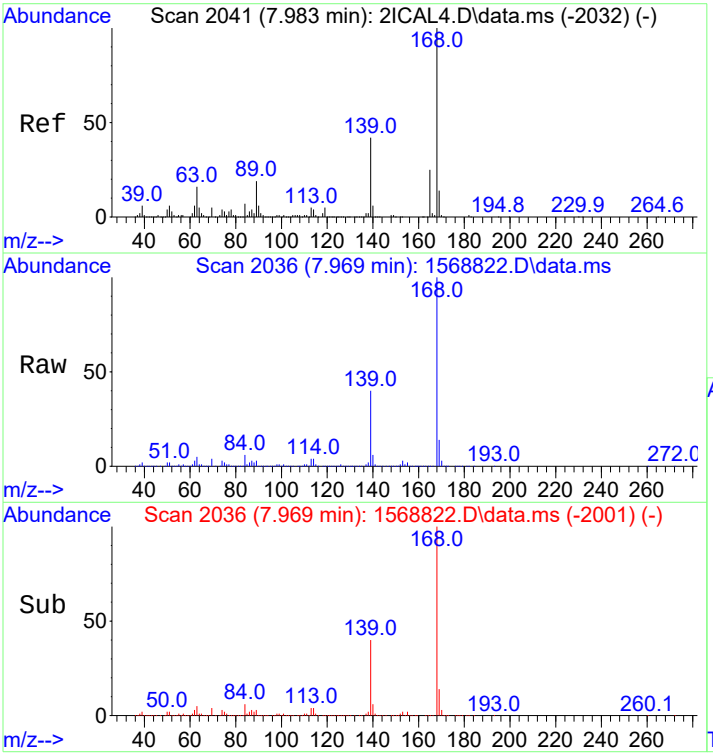




#51
3Nitroaniline
Concen: 0.41 ug/mL
RT: 7.827 min Scan# 1986
Delta R.T. 0.054 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:138 Resp: 1222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 67.7 | 127.7# |
| 108 | 0.0 | 0.0 | 38.9 |

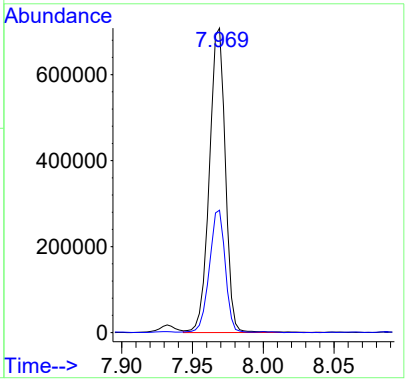


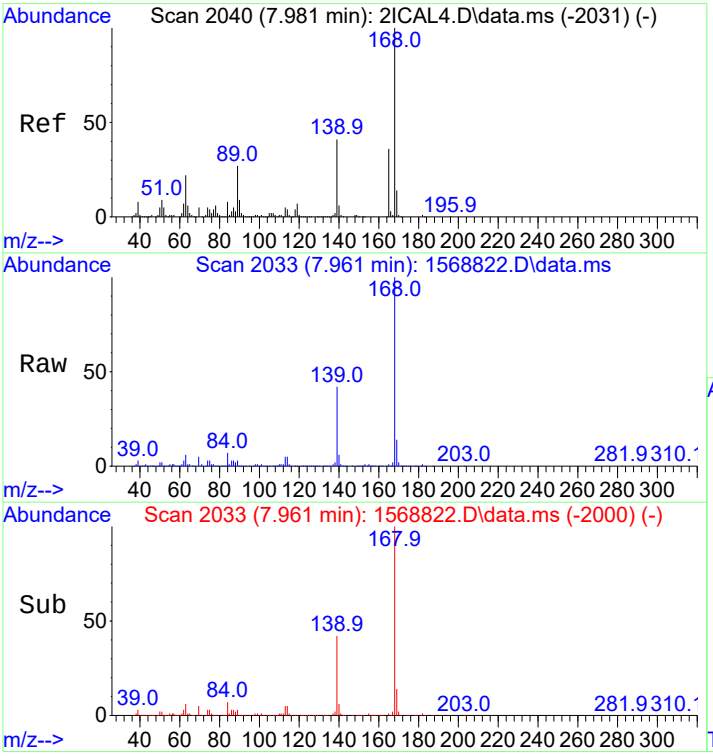



#53
Dibenzofuran
Concen: 15.94 ug/mL
RT: 7.969 min Scan# 2036
Delta R.T. -0.000 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:168 Resp: 555810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.2 | 11.9 | 71.9 |

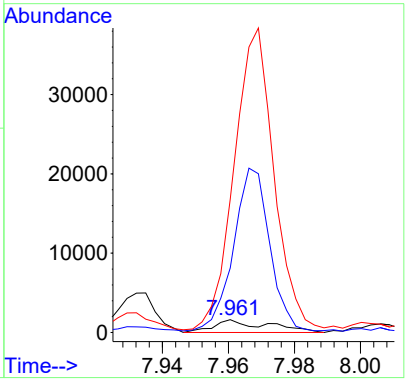


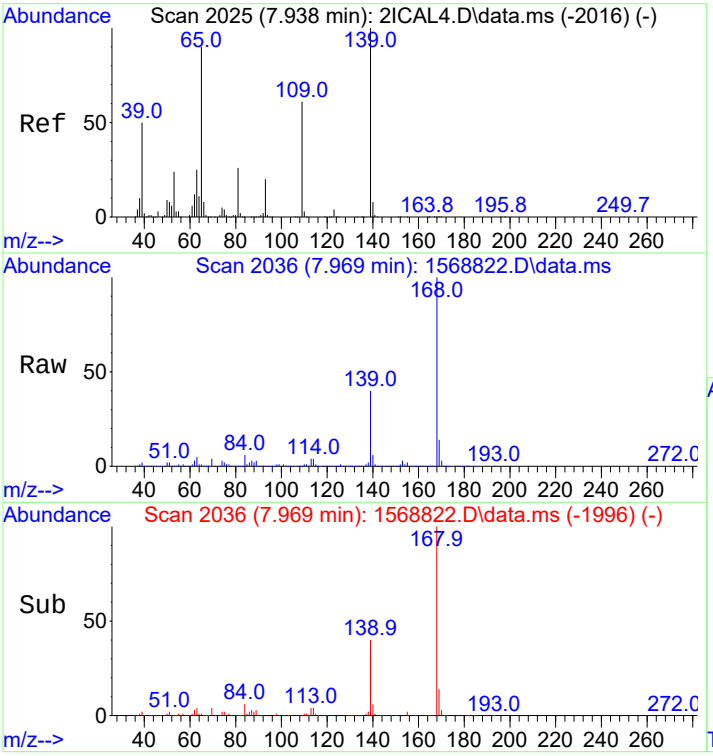




#54
24Dinitrotolu
Concen: 0.21 ug/mL
RT: 7.961 min Scan# 2033
Delta R.T. -0.006 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:165 Resp: 1841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 489.5 | 46.1 | 106.1# |
| 63 | 1014.0 | 32.6 | 92.6# |

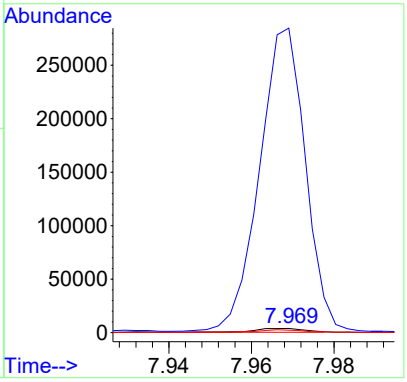


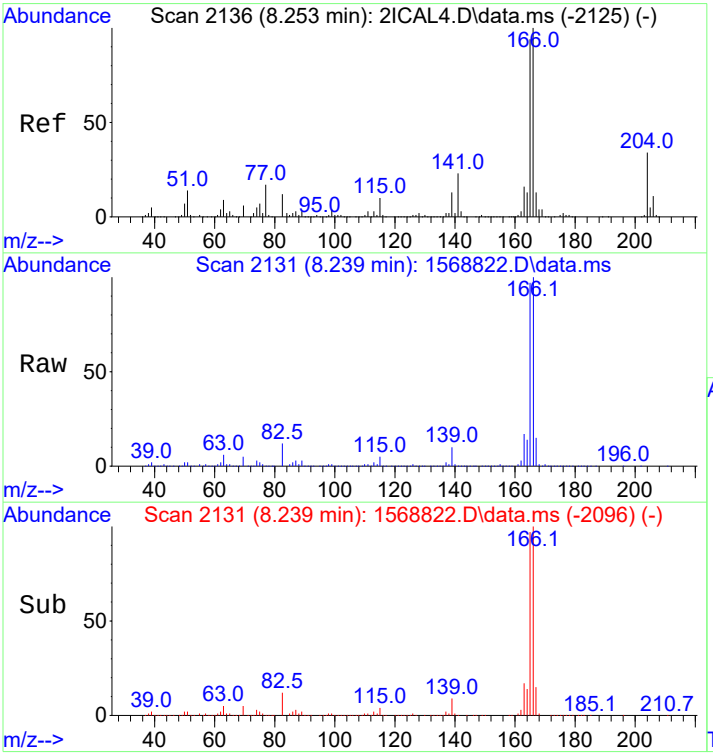



#55
4-Nitrophenol
Concen: 1.88 ug/mL
RT: 7.969 min Scan# 2036
Delta R.T. 0.048 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion: 65 Resp: 3266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 7601.6 | 80.5 | 140.5# |
| 109 | 56.4 | 37.6 | 97.6 |

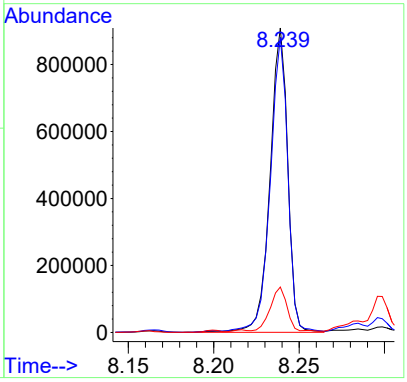


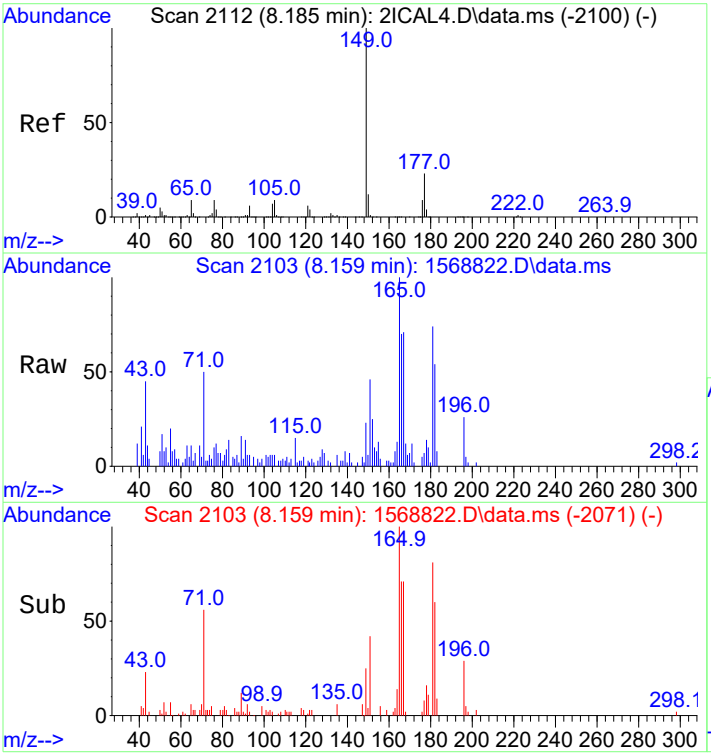




#58
Fluorene
Concen: 24.55 ug/mL
RT: 8.239 min Scan# 2131
Delta R.T. -0.000 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:166 Resp: 654426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.0 | 63.6 | 123.6 |
| 167 | 14.9 | 0.0 | 43.3 |

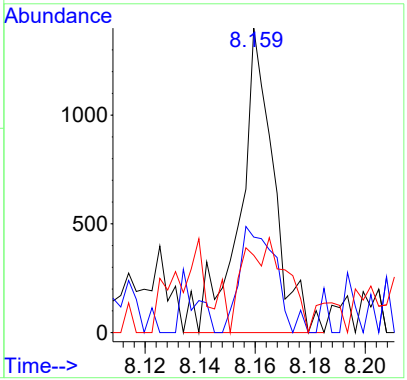


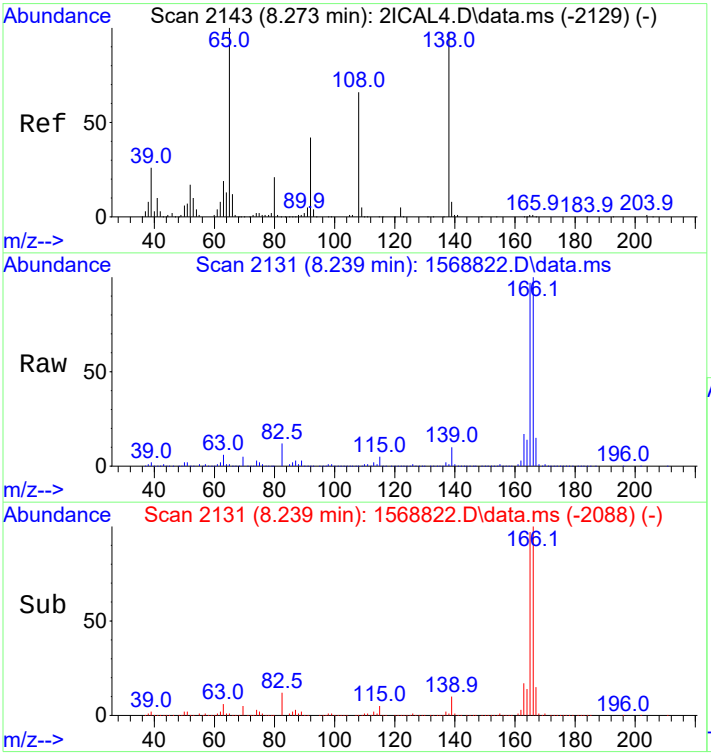



#60
Diethylphthal
Concen: 0.04 ug/mL
RT: 8.159 min Scan# 2103
Delta R.T. -0.009 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:149 Resp: 1214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 16.8 | 0.0 | 52.5 |
| 150 | 15.7 | 0.0 | 42.2 |

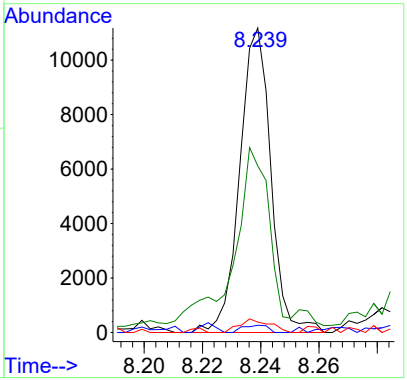


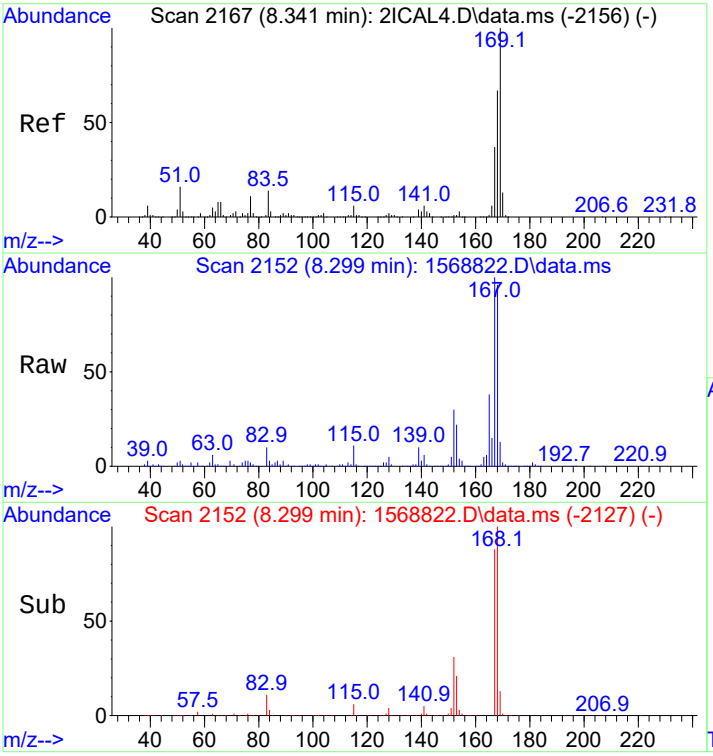




#61
4Nitroaniline
Concen: 1.64 ug/mL
RT: 8.239 min Scan# 2131
Delta R.T. -0.017 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:138 Resp: 8317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 4.2 | 12.7 | 72.7# |
| 108 | 3.4 | 36.9 | 96.9# |
| 65 | 52.5 | 71.1 | 131.1# |

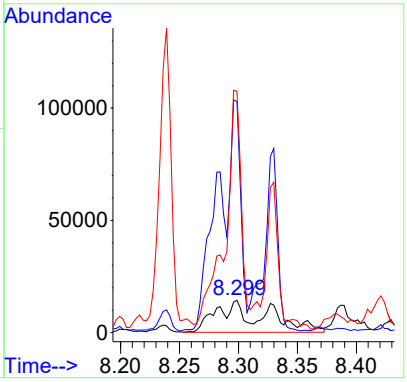


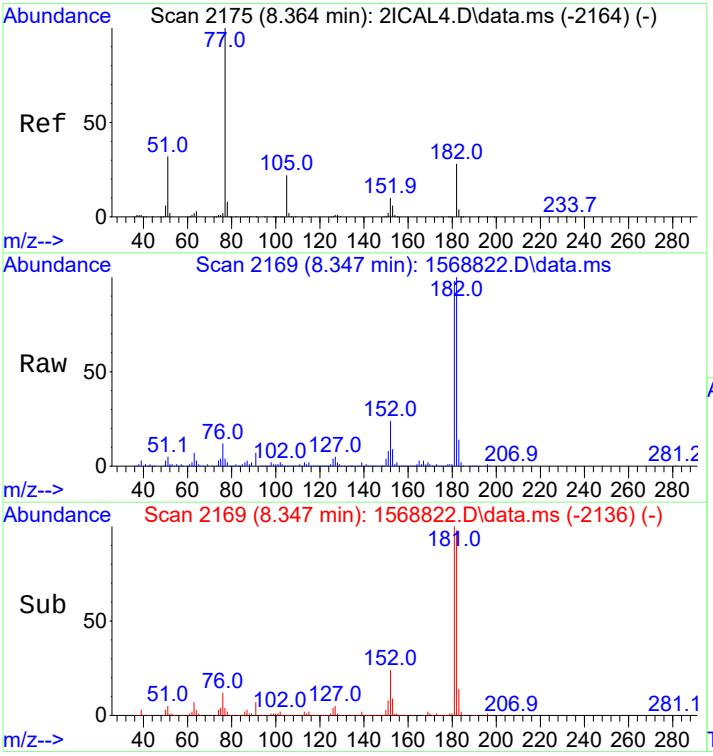



#65
Ntrsdiphlam&Diphlam
Concen: 2.24 ug/mL
RT: 8.299 min Scan# 2152
Delta R.T. -0.028 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:169 Resp: 41289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 713.8 | 37.2 | 97.2# |
| 167 | 714.7 | 6.9 | 66.9# |

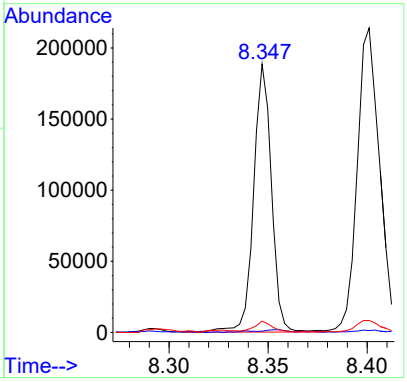


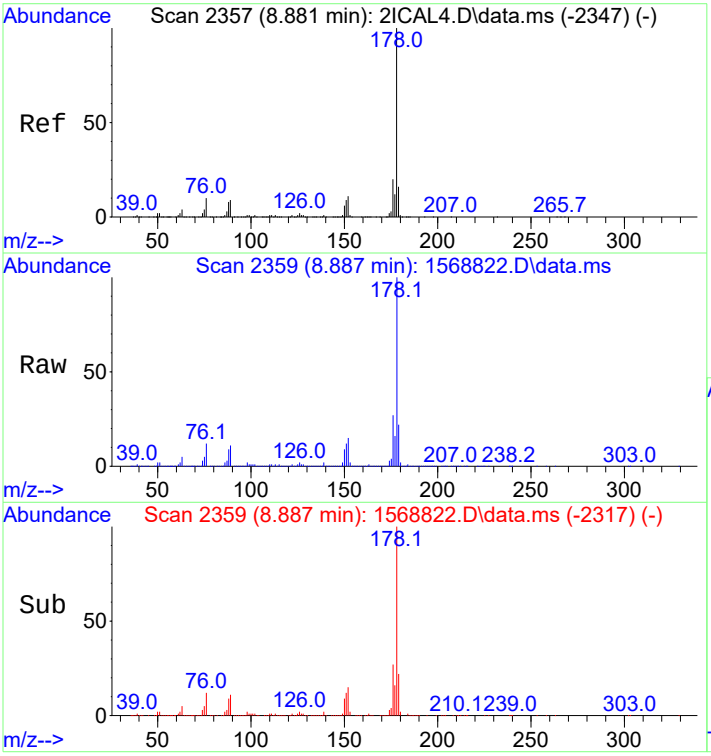




#66
Azobenz&12Diphlhyd
Concen: 18.00 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:182 Resp: 118197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.4 | 49.9 | 109.9# |
| 77 | 3.9 | 339.9 | 399.9# |

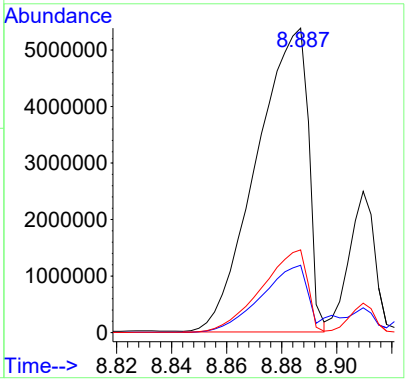


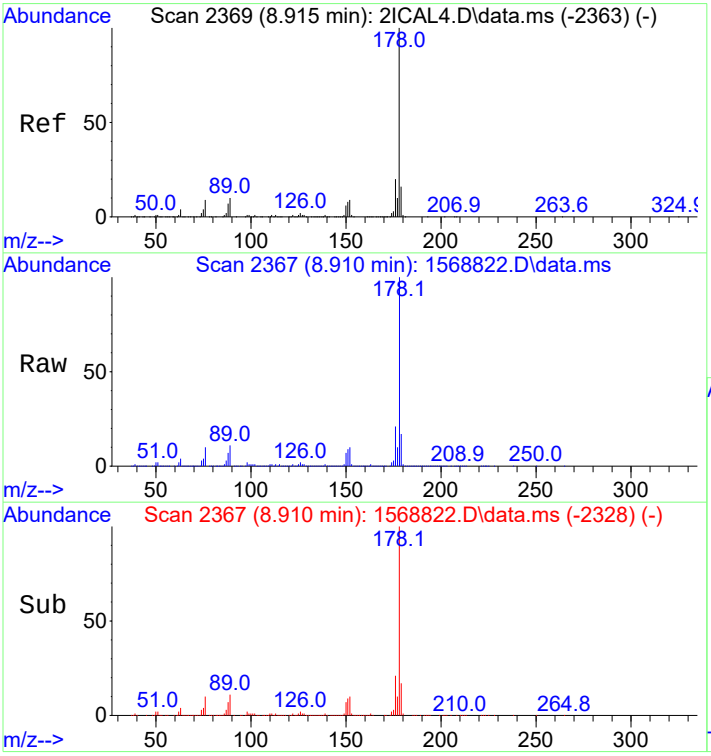



#70
Phenanthrene
Concen: 201.49 ug/mL
RT: 8.887 min Scan# 2359
Delta R.T. 0.020 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:178 Resp: 7013064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 22.1 | 0.0 | 45.9 |
| 176 | 27.2 | 0.0 | 50.4 |

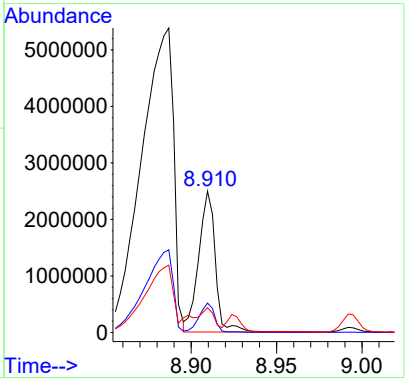


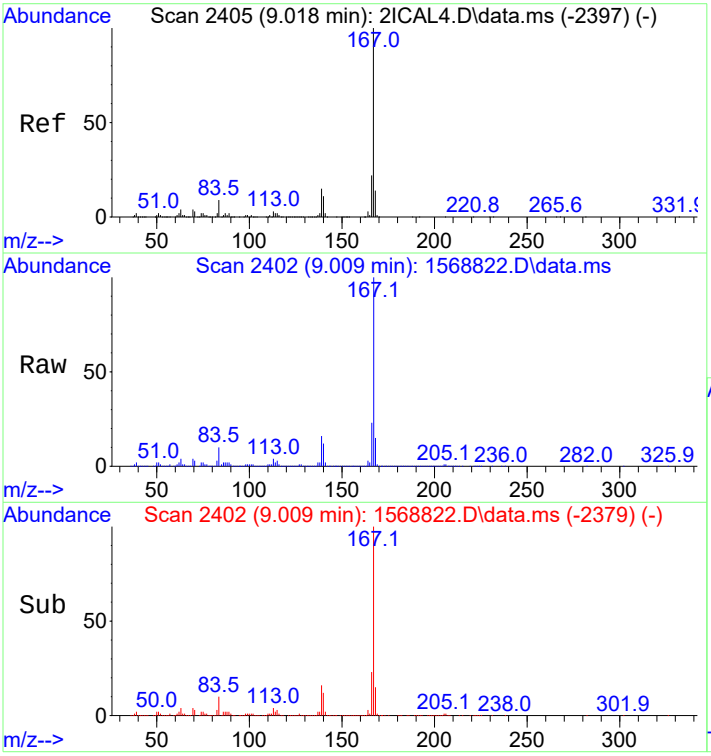




#71
Anthracene
Concen: 47.97 ug/mL
RT: 8.910 min Scan# 2367
Delta R.T. 0.011 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:178 Resp: 1698765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.8 | 0.0 | 49.5 |
| 179 | 17.3 | 0.0 | 45.9 |

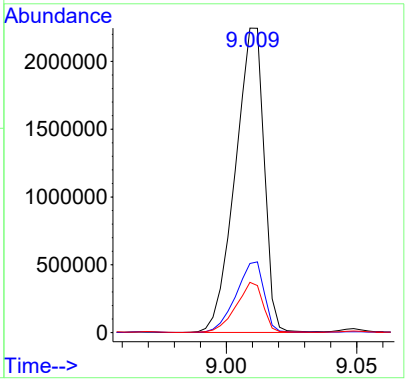


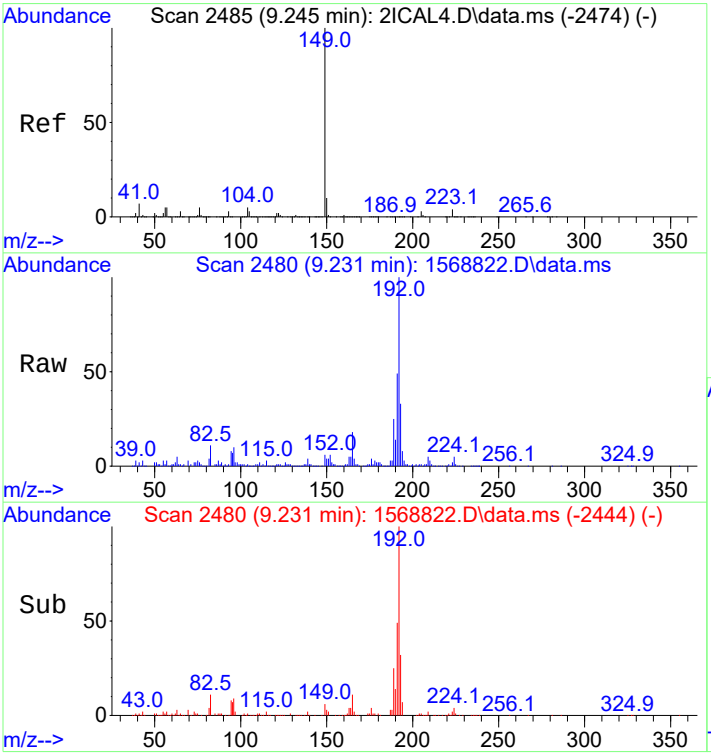



#72
Carbazole
Concen: 57.33 ug/mL
RT: 9.009 min Scan# 2402
Delta R.T. 0.006 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:167 Resp: 1728810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.6 | 0.0 | 52.1 |
| 139 | 16.4 | 0.0 | 44.7 |

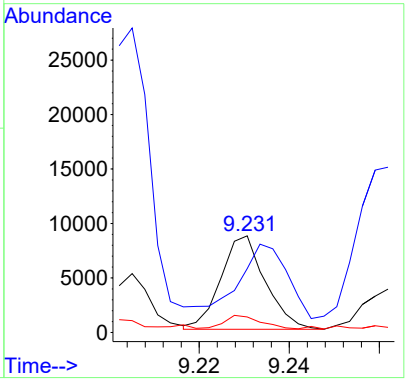


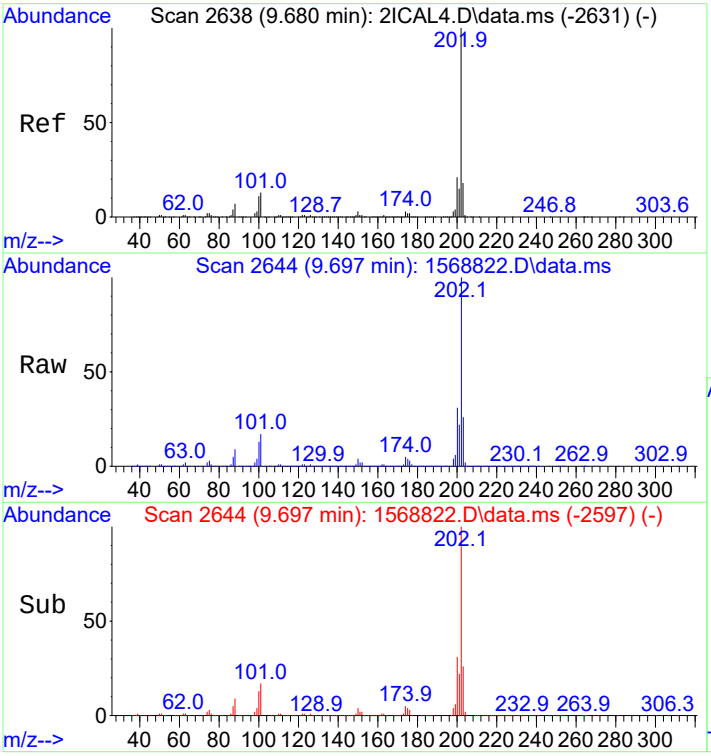




#73
Dinbtylphthal
Concen: 0.14 ug/mL
RT: 9.231 min Scan# 2480
Delta R.T. 0.003 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:149 Resp: 5887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 50.9 | 0.0 | 39.7# |
| 104 | 12.8 | 0.0 | 35.4 |

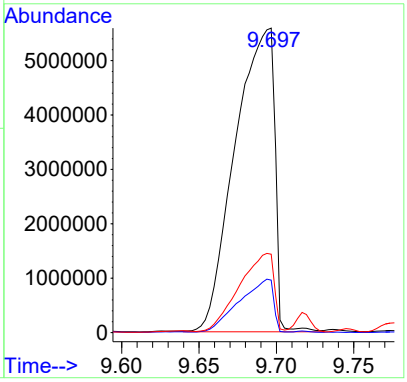


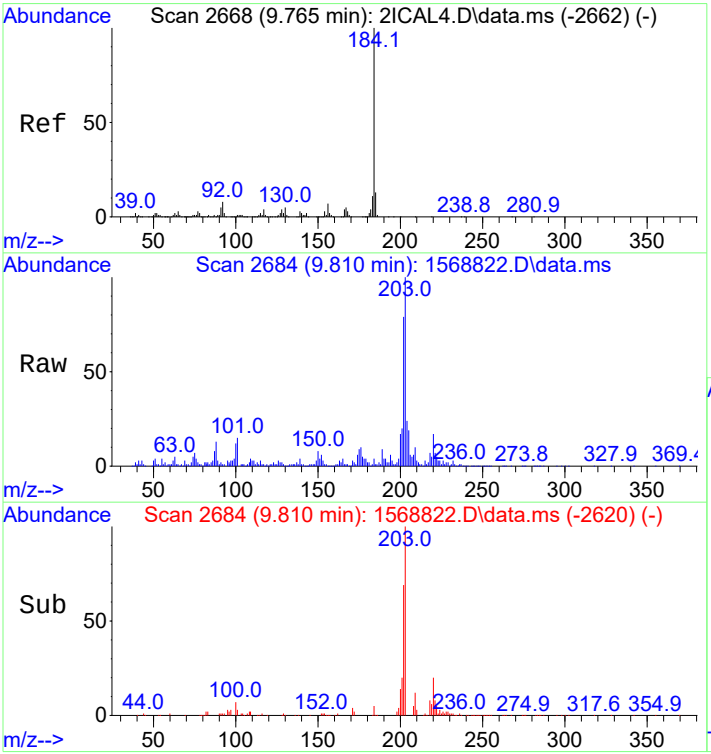



#74
Fluoranthene
Concen: 270.46 ug/mL
RT: 9.697 min Scan# 2644
Delta R.T. 0.034 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:202 Resp: 9940679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 17.2 | 0.0 | 43.0 |
| 203 | 25.6 | 0.0 | 48.2 |

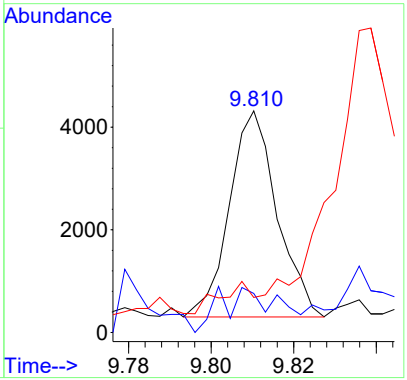


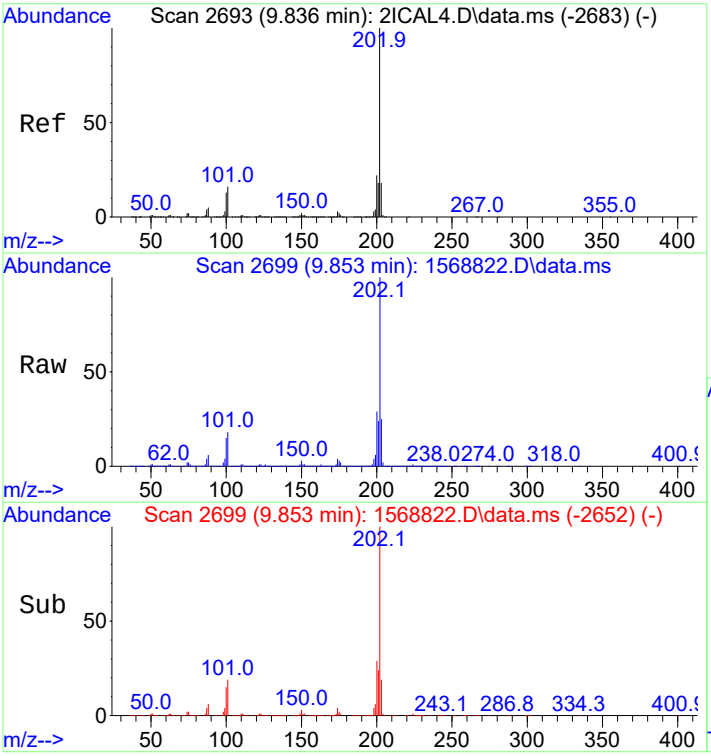




#76
Benzidine
Concen: 0.28 ug/mL
RT: 9.810 min Scan# 2684
Delta R.T. 0.062 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:184 Resp: 3224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 8.7 | 0.0 | 38.2 |
| 185 | 17.5 | 0.0 | 43.3 |

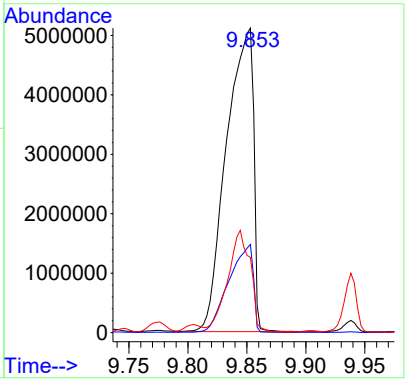


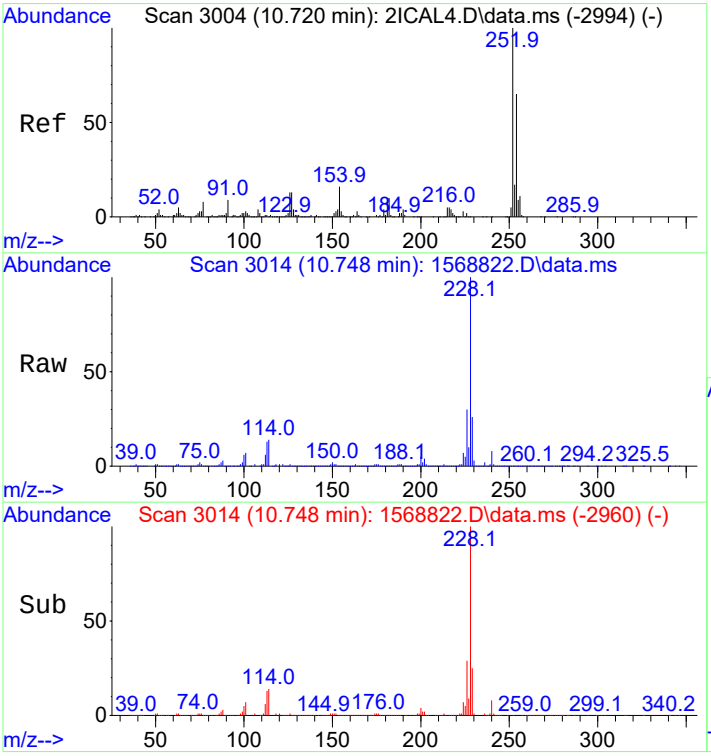



#77
Pyrene
Concen: 239.68 ug/mL
RT: 9.853 min Scan# 2699
Delta R.T. 0.034 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:202 Resp: 8127237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 29.0 | 0.0 | 52.2 |
| 203 | 24.5 | 0.0 | 48.2 |

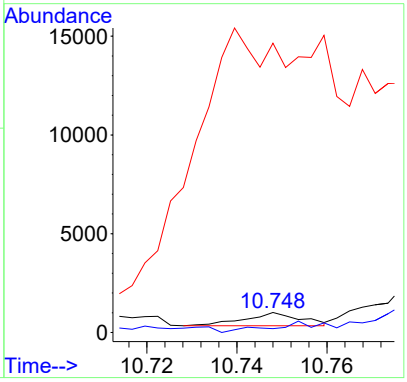


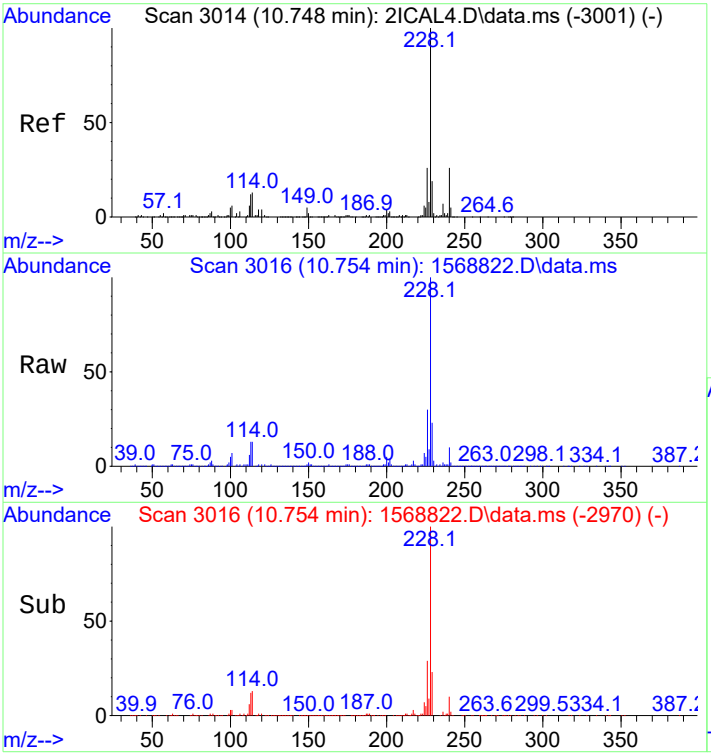




#81
33Diclbnzidin
Concen: Below Cal
RT: 10.748 min Scan# 3014
Delta R.T. 0.054 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:252 Resp: 585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 0.0 | 34.6 | 94.6# |
| 126 | 1081.2 | 0.0 | 42.6# |

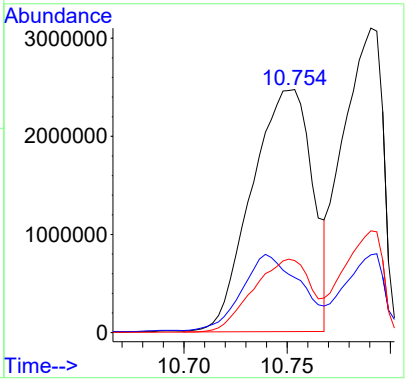


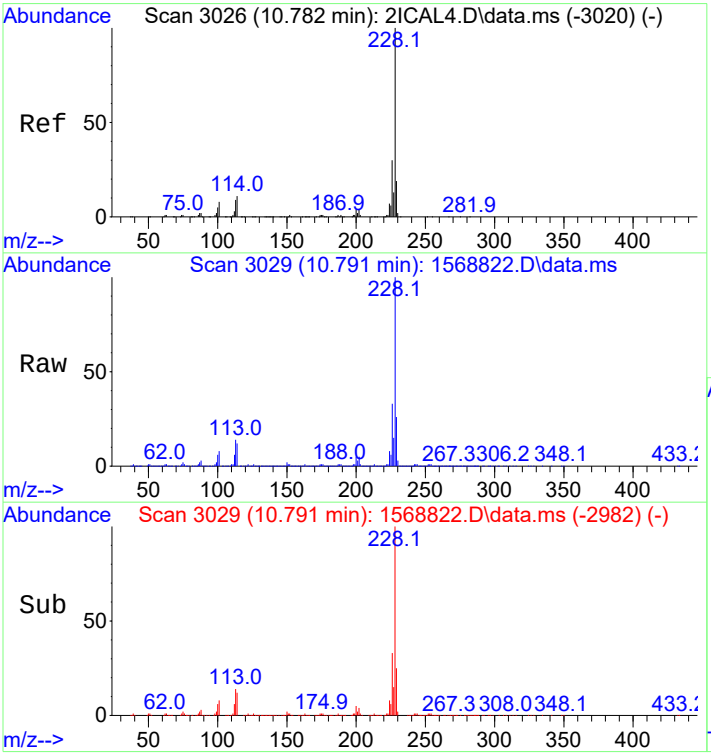



#82
B[a]anthracen
Concen: 157.65 ug/mL
RT: 10.754 min Scan# 3016
Delta R.T. 0.031 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:228 Resp: 5066911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 21.9 | 0.0 | 49.4 |
| 226 | 29.6 | 0.0 | 56.5 |

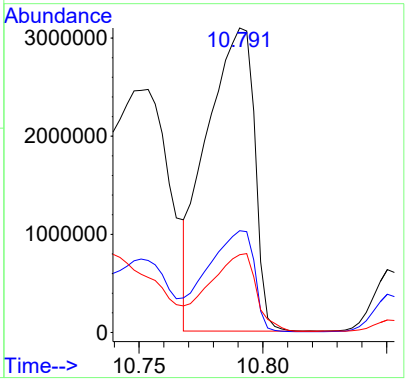


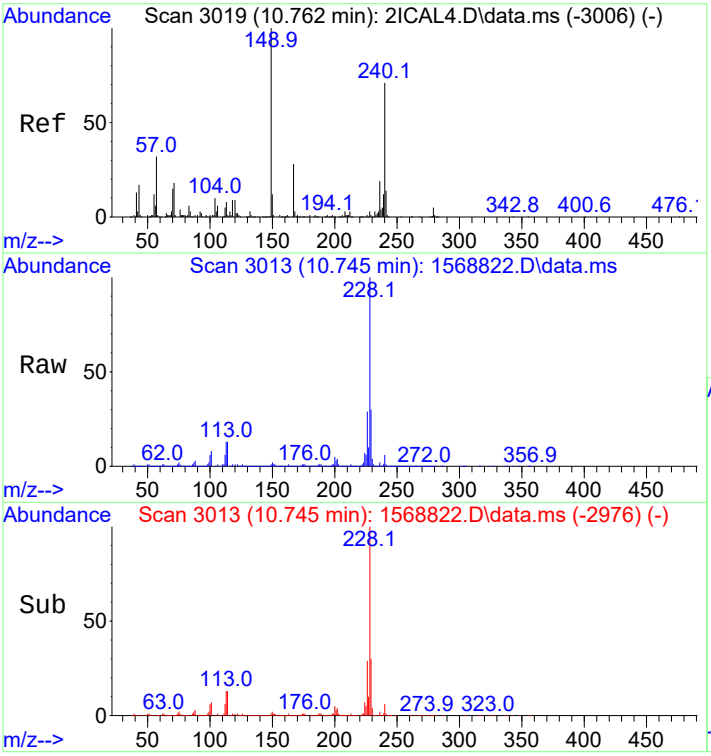




#83
Chrysene
Concen: 138.67 ug/mL
RT: 10.791 min Scan# 3029
Delta R.T. 0.034 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:228 Resp: 4179942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 33.3 | 0.0 | 59.9 |
| 229 | 25.2 | 0.0 | 49.5 |

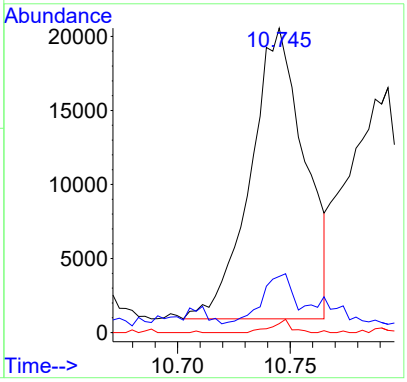


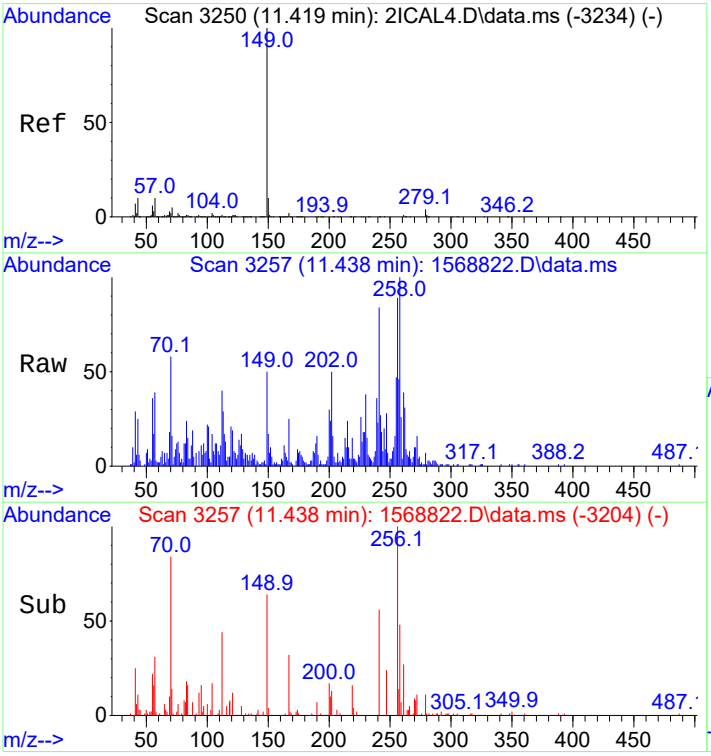



#84
bis2Ethlhxlph
Concen: 1.34 ug/mL
RT: 10.745 min Scan# 3013
Delta R.T. 0.006 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:149 Resp: 32781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 15.0 | 0.0 | 57.9 |
| 279 | 3.1 | 0.0 | 34.9 |

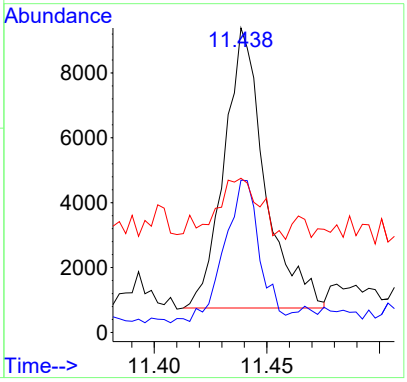


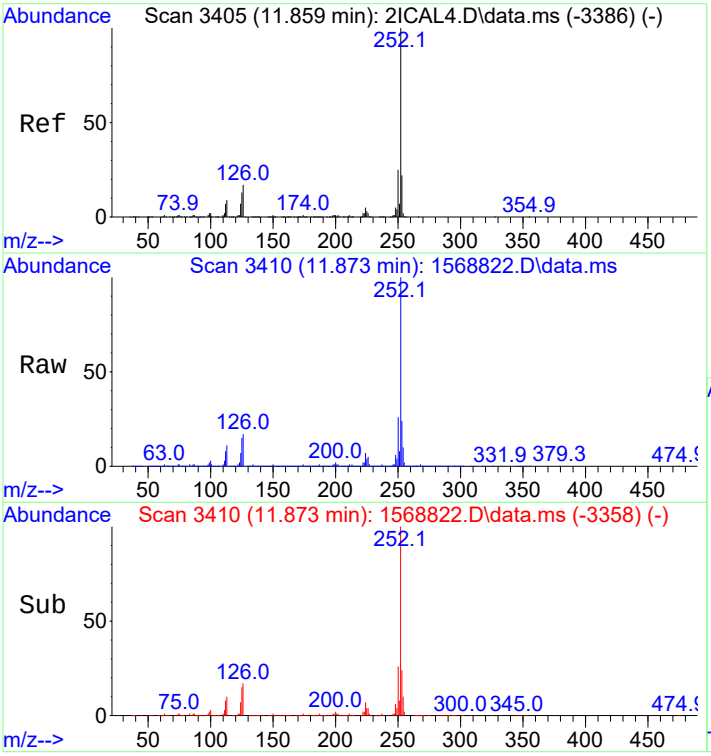




#85
Dinoctylphthl
Concen: 0.58 ug/mL
RT: 11.438 min Scan# 3257
Delta R.T. 0.051 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:149 Resp: 10900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 49.5 | 0.0 | 31.6# |
| 43 | 19.7 | 0.0 | 39.9 |

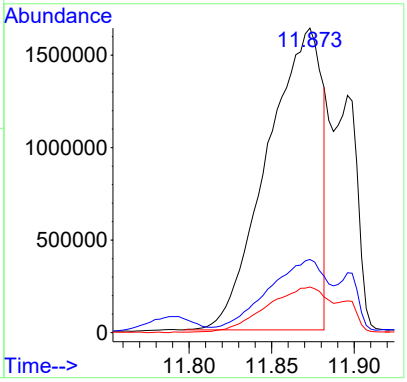


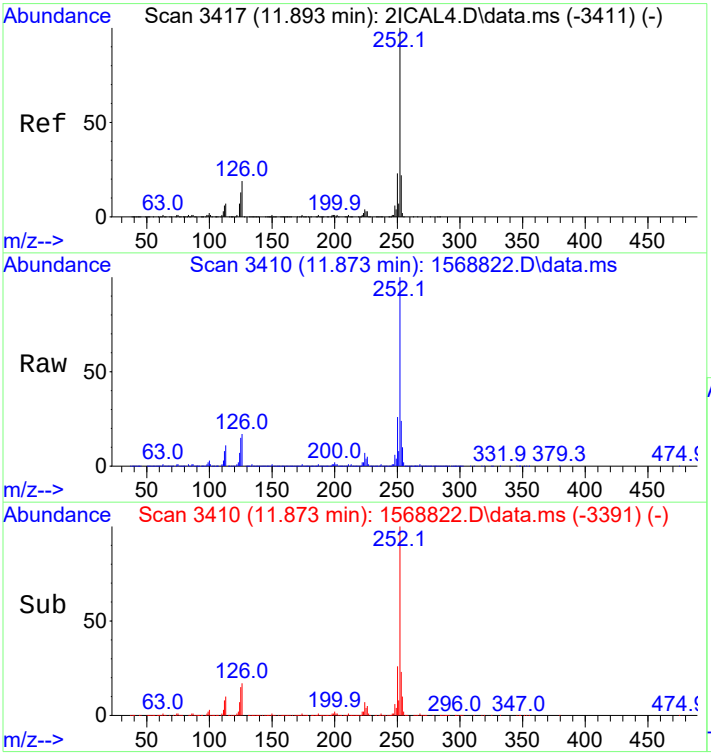



#87
B[b]fluoranth
Concen: 234.00 ug/mL
RT: 11.873 min Scan# 3410
Delta R.T. 0.048 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:252 Resp: 3743707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 19.5 | 0.0 | 52.3 |
| 125 | 14.9 | 0.0 | 43.2 |

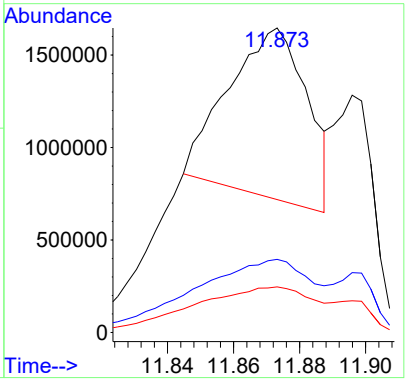


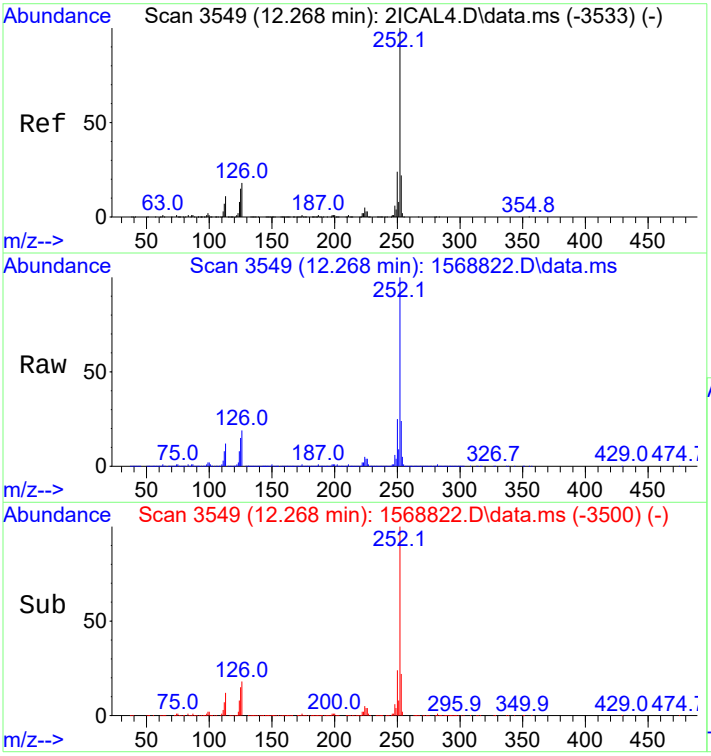




#88
B[k]fluoranth
Concen: 94.16 ug/mL
RT: 11.873 min Scan# 3410
Delta R.T. 0.014 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:252 Resp: 1509259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.6 | 0.0 | 52.0 |
| 125 | 15.1 | 0.0 | 43.3 |

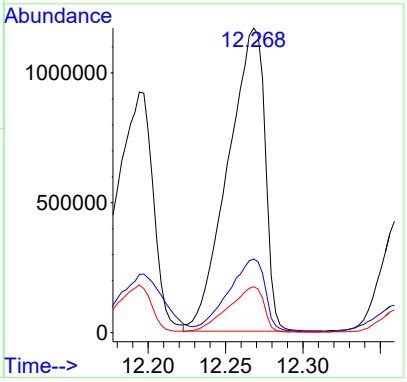


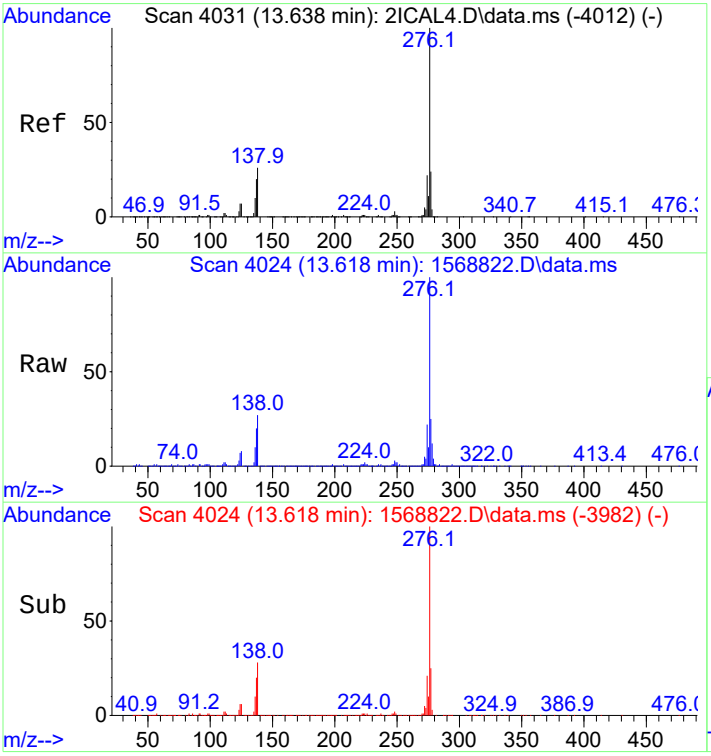



#89
Benz[a]pyrene
Concen: 132.36 ug/mL
RT: 12.268 min Scan# 3549
Delta R.T. 0.040 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:252 Resp: 1947365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 0.0 | 52.3 |
| 125 | 14.9 | 0.0 | 45.1 |

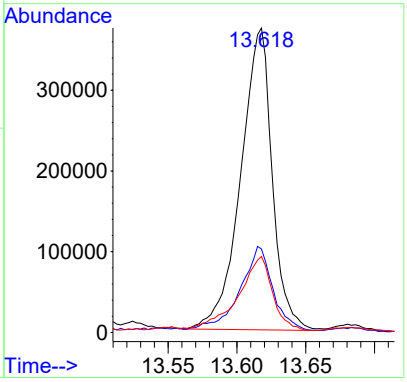


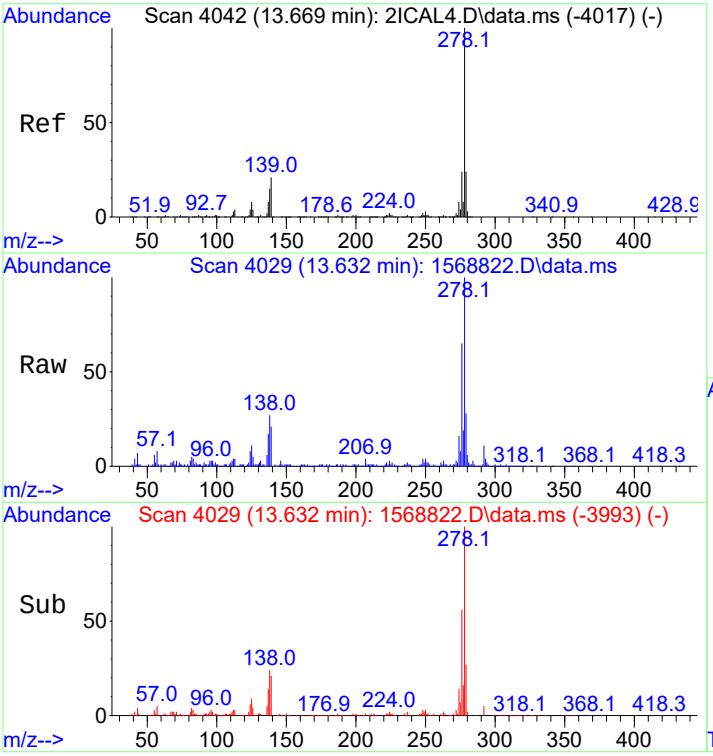




#90
Indeno-pyrene
Concen: 36.71 ug/mL
RT: 13.618 min Scan# 4024
Delta R.T. 0.020 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:276 Resp: 597337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.0 | 0.0 | 55.5 |
| 277 | 24.5 | 0.0 | 54.0 |

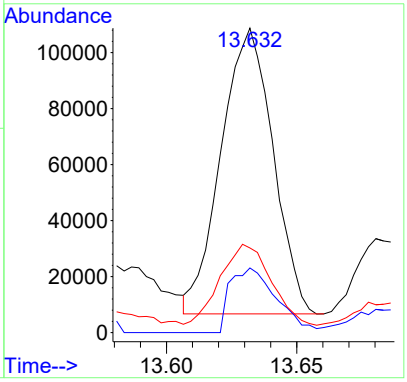


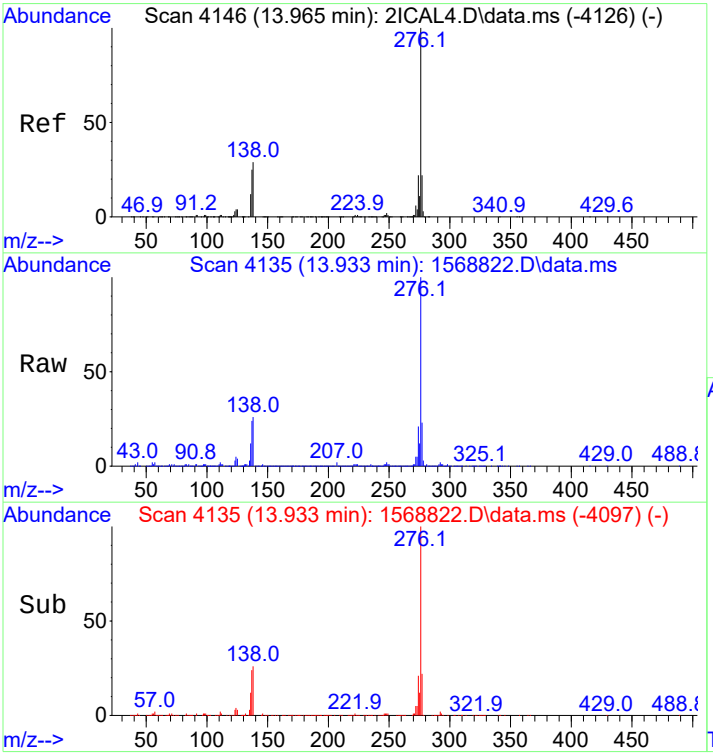



#91
Dib[ah]anthr
Concen: 10.62 ug/mL
RT: 13.632 min Scan# 4029
Delta R.T. 0.003 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:278 Resp: 141222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.6 | 0.0 | 50.9 |
| 279 | 26.7 | 0.0 | 54.4 |

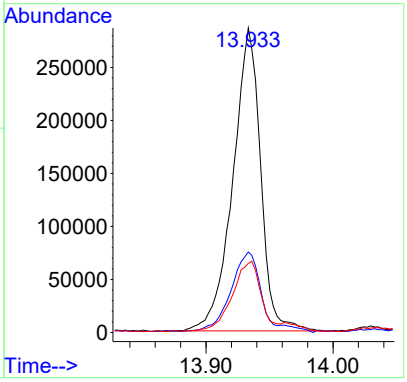



#92
B[ghi]perylen
Concen: 34.14 ug/mL
RT: 13.933 min Scan# 4135
Delta R.T. 0.008 min
Lab File: 1568822.D
Acq: 10 Apr 2025 21:57

Tgt Ion:276 Resp: 435323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.2 | 0.0 | 59.0 |
| 277 | 22.5 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568846.D Vial: 36
Acq On : 10 Apr 2025 22:20 Operator: ALD
Sample : 290730,1568846, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 22:37:13 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 14Diclbenzd4 | 4.329 | 152 | 176570 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.023 | 136 | 858019 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 491026 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.850 | 188 | 700015 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.734 | 240 | 535941 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.311 | 264 | 246002 | 20.00 | ug/mL | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) SURR2Flphenol | 3.107 | 112 | 283312 | 66.64 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 66.64% | | | |
| 7) SURRPhenol-d5 | 3.917 | 99 | 374799 | 73.35 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 73.35% | | | |
| 22) SURRNitrbenzened5 | 5.011 | 82 | 166445 | 71.19 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 71.19% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 452677 | 77.27 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 77.27% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 111482 | 84.82 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 84.82% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 509000 | 97.40 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 97.40% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.269 | 74 | 719 | 0.1052 | ug/mL# | 1 |
| 3) Pyridine | 2.610 | 79 | 6007 | 0.4917 | ug/mL# | 68 |
| 14) bis2clispreth | 4.639 | 45 | 3017 | 0.1486 | ug/mL | 82 |
| 17) Acetophenone | 4.818 | 105 | 6669 | 0.4038 | ug/mL# | 39 |
| 18) Hexaclethane | 4.983 | 117 | 643 | 0.1285 | ug/mL# | 13 |
| 26) 24Dimthpheno | 5.679 | 122 | 2243 | 0.1945 | ug/mL# | 7 |
| 30) Benzoic acid | 5.679 | 122 | 2702 | 3.3075 | ug/mL# | 64 |
| 31) Naphthalene | 6.045 | 128 | 22107 | 0.5587 | ug/mL | 95 |
| 32) 4-Cl-aniline | 6.085 | 127 | 608 | 0.0394 | ug/mL# | 27 |
| 36) 4Cl3methylphe | 6.733 | 107 | 891 | 0.0819 | ug/mL# | 18 |
| 37) 2Methylnaphth | 6.838 | 142 | 13759 | 0.5753 | ug/mL | 98 |
| 38) 1Methylnaphth | 6.938 | 142 | 9087 | 0.3674 | ug/mL | 96 |
| 46) 2Nitroaniline | 7.347 | 65 | 2041 | 0.5390 | ug/mL# | 18 |
| 47) Acnaphthylene | 7.676 | 152 | 5678 | 0.1429 | ug/mL | 90 |
| 50) Acenaphthene | 7.824 | 154 | 6013 | 0.2546 | ug/mL | 97 |
| 53) Dibenzofuran | 7.969 | 168 | 5508 | 0.1615 | ug/mL | 87 |
| 54) 24Dinitrotolu | 7.975 | 165 | 1351 | 0.1567 | ug/mL# | 63 |
| 56) 2,3,5,6-Tetrachlorop | 8.017 | 232 | 376 | 0.6085 | ug/mL# | 41 |
| 57) 2,3,4,6-Tetrachlorop | 8.063 | 232 | 571 | 0.4111 | ug/mL# | 43 |
| 58) Fluorene | 8.236 | 166 | 4785 | 0.1835 | ug/mL | 90 |
| 60) Diethylphthal | 8.162 | 149 | 1187 | 0.0411 | ug/mL | 74 |
| 61) 4Nitroaniline | 8.384 | 138 | 448 | 0.3940 | ug/mL# | 34 |
| 65) Ntrsdiphlam&Diphlam | 8.304 | 169 | 1712 | 0.0949 | ug/mL# | 31 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 5018 | 0.7797 | ug/mL# | 1 |
| 69) Pentaclphenol | 8.725 | 266 | 2020 | 3.8721 | ug/mL | 83 |
| 70) Phenanthrene | 8.864 | 178 | 122170 | 3.5822 | ug/mL | 98 |
| 71) Anthracene | 8.898 | 178 | 25823 | 0.7442 | ug/mL | 91 |
| 72) Carbazole | 9.001 | 167 | 17939 | 0.6071 | ug/mL | 96 |
| 73) Dinbtylphthal | 9.228 | 149 | 7232 | 0.1750 | ug/mL | 91 |
| 74) Fluoranthene | 9.663 | 202 | 212256 | 5.8939 | ug/mL | 99 |
| 77) Pyrene | 9.819 | 202 | 164012 | 4.8179 | ug/mL | 99 |
| 79) Btylbzylphth | 10.242 | 149 | 2604 | 0.1547 | ug/mL | 73 |
| 82) B[a]anthracen | 10.725 | 228 | 72306 | 2.2409 | ug/mL | 98 |
| 83) Chrysene | 10.757 | 228 | 72495 | 2.3956 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568846.D Vial: 36
Acq On : 10 Apr 2025 22:20 Operator: ALD
Sample : 290730,1568846, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 22:37:13 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

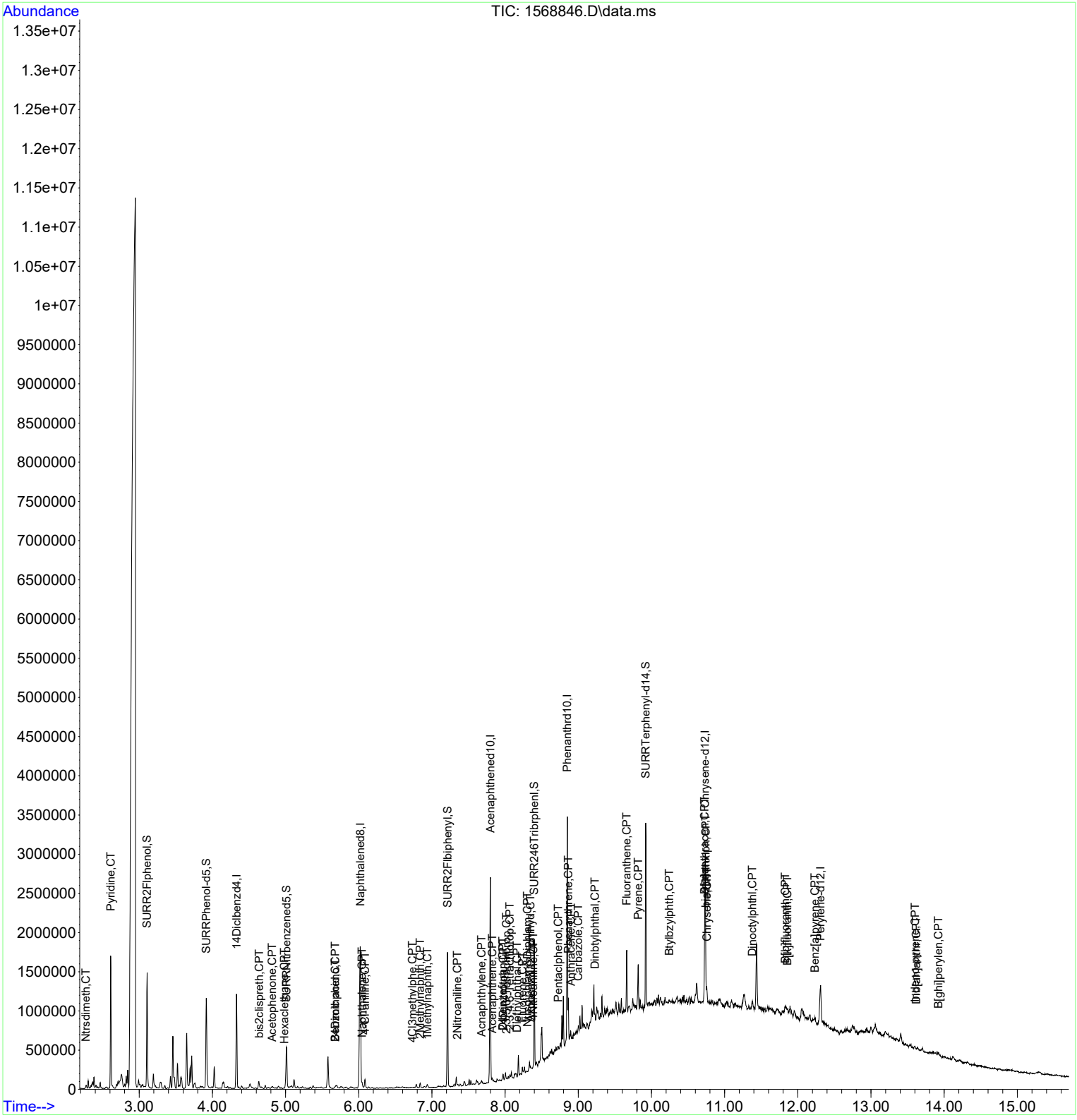
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 84) bis2Ethlhxlph | 10.742 | 149 | 9442 | 0.3845 ug/mL | 87 |
| 85) Dinoctylphthl | 11.379 | 149 | 2605 | 0.3769 ug/mL# | 1 |
| 87) B[b]fluoranth | 11.828 | 252 | 65872 | 5.0550 ug/mL | 93 |
| 88) B[k]fluoranth | 11.859 | 252 | 20408 | 1.5631 ug/mL | 95 |
| 89) Benz[a]pyrene | 12.234 | 252 | 30179 | 2.5183 ug/mL | 96 |
| 90) Indeno-pyrene | 13.604 | 276 | 11455 | 0.8642 ug/mL | 92 |
| 91) Dib[ah]anthr | 13.618 | 278 | 3140 | 0.2898 ug/mL# | 45 |
| 92) B[ghi]perylen | 13.922 | 276 | 10298 | 0.9916 ug/mL | 83 |

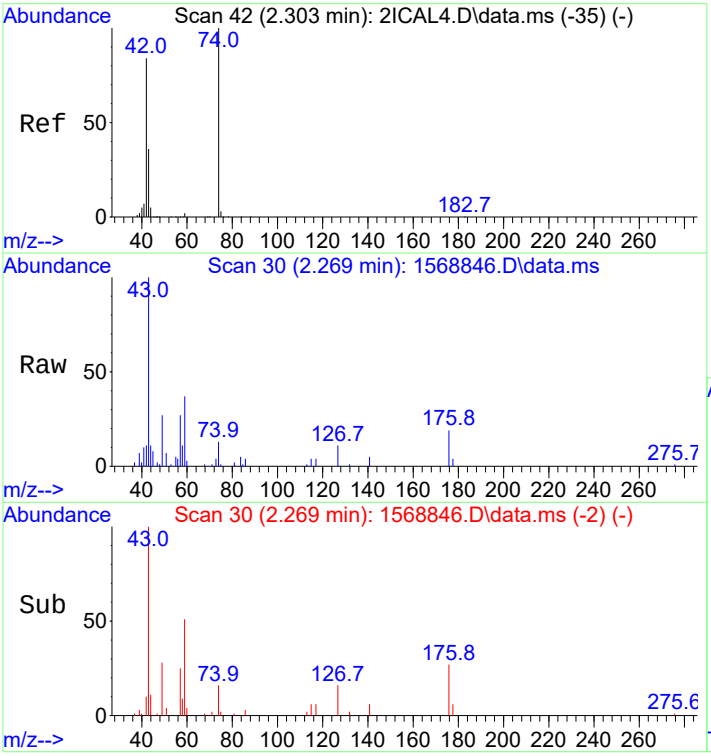
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568846.D Vial: 36
Acq On : 10 Apr 2025 22:20 Operator: ALD
Sample : 290730,1568846, Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 22:37:13 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

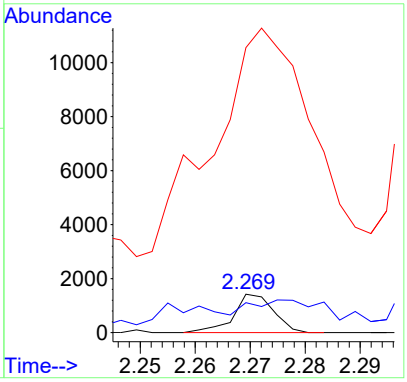


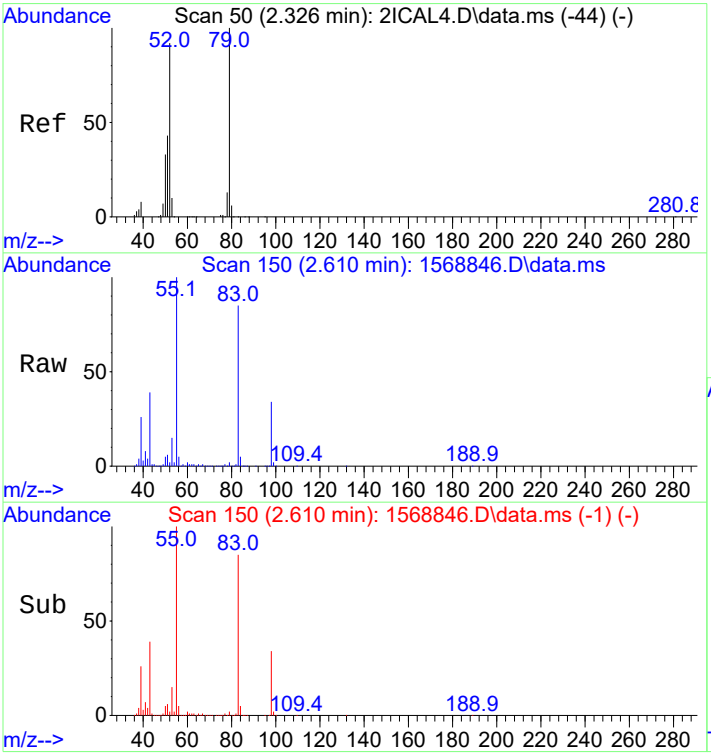



#2
Ntrsdimeth
Concen: 0.11 ug/mL
RT: 2.269 min Scan# 30
Delta R.T. -0.020 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion: 74 Resp: 719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 26.6 | 53.9 | 113.9# |
| 43 | 279.5 | 6.0 | 66.0# |

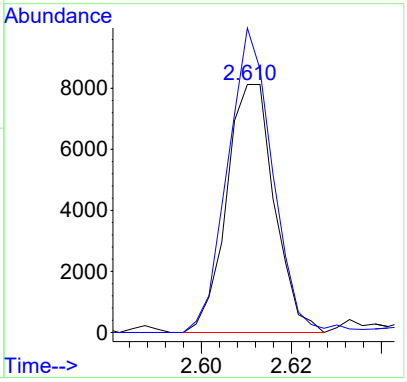


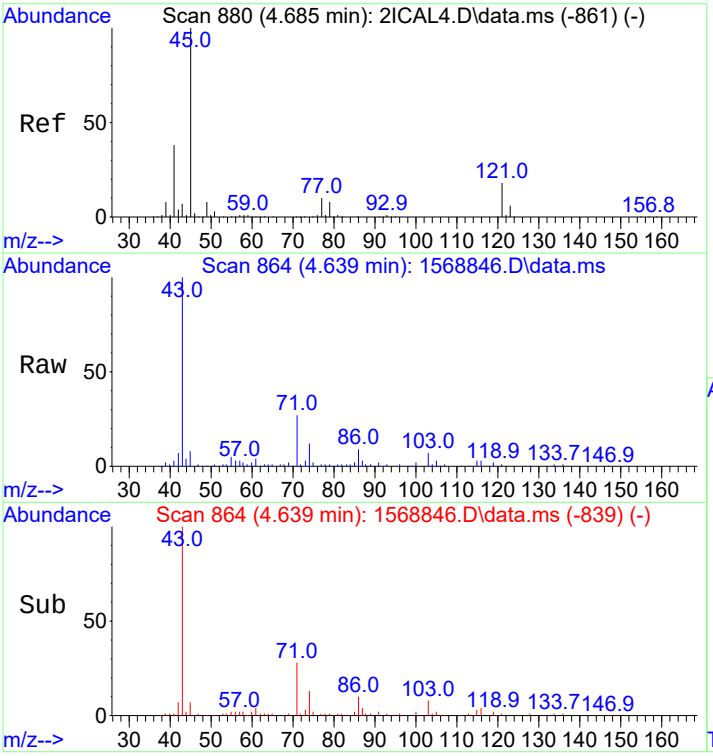




#3
Pyridine
Concen: 0.49 ug/mL
RT: 2.610 min Scan# 150
Delta R.T. 0.301 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion: 79 Resp: 6007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 122.8 | 62.5 | 122.5# |

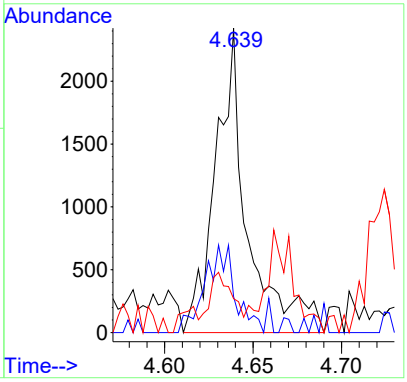


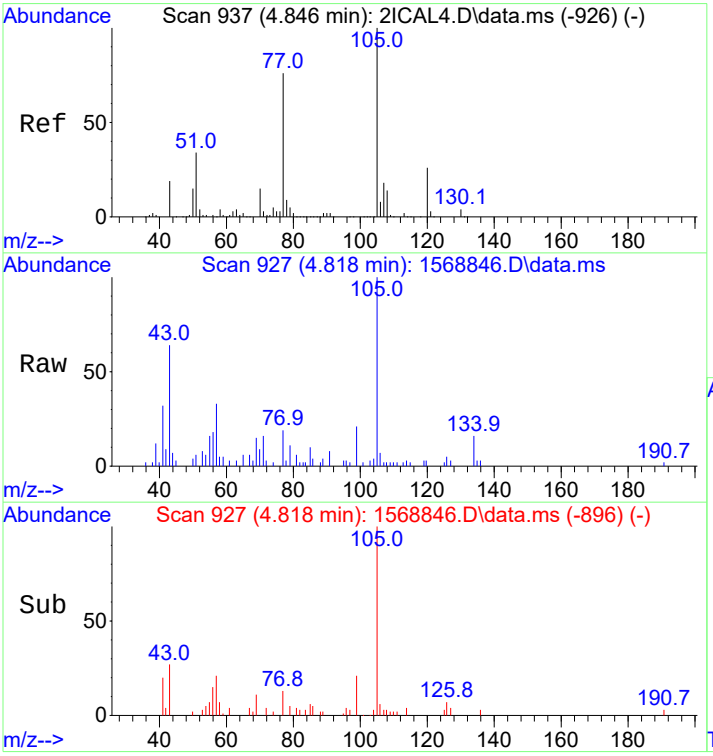



#14
bis2clispreth
Concen: 0.15 ug/mL
RT: 4.639 min Scan# 864
Delta R.T. -0.028 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion: 45 Resp: 3017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 6.1 | 0.0 | 47.5 |
| 77 | 11.1 | 0.0 | 40.1 |

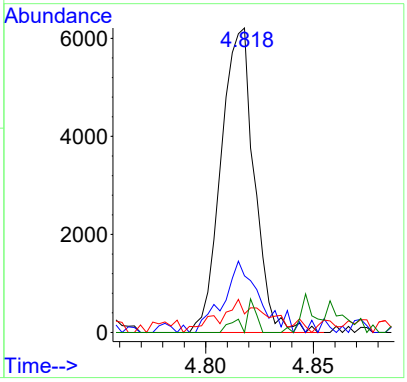


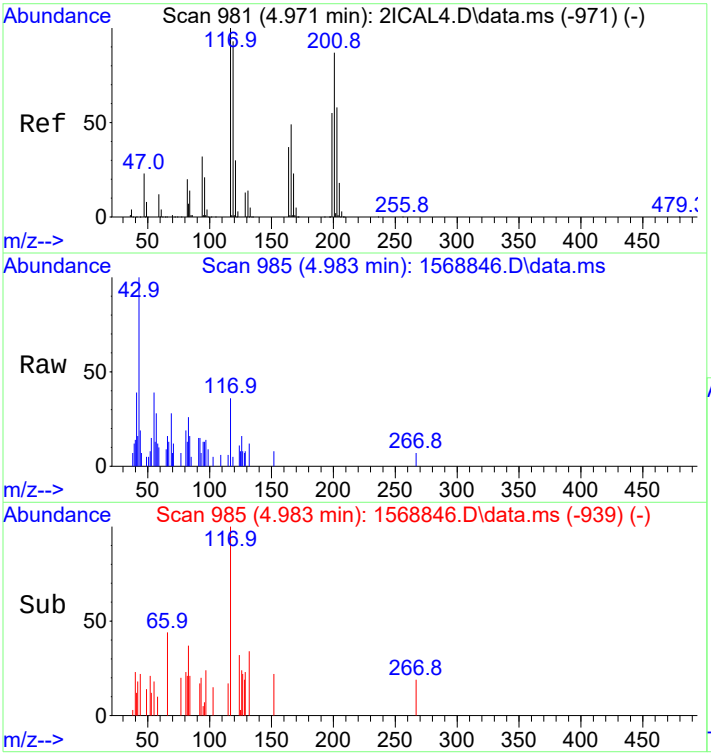




#17
Acetophenone
Concen: 0.40 ug/mL
RT: 4.818 min Scan# 927
Delta R.T. -0.011 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:105 Resp: 6669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 16.8 | 46.3 | 106.3# |
| 51 | 4.1 | 3.7 | 63.7 |
| 120 | 0.0 | 0.0 | 55.6 |

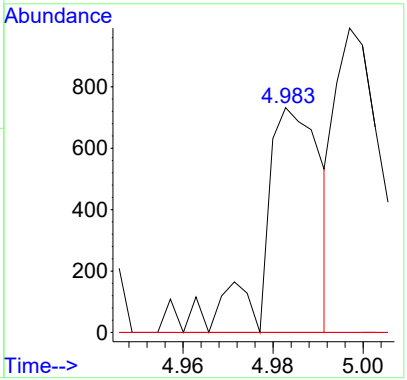


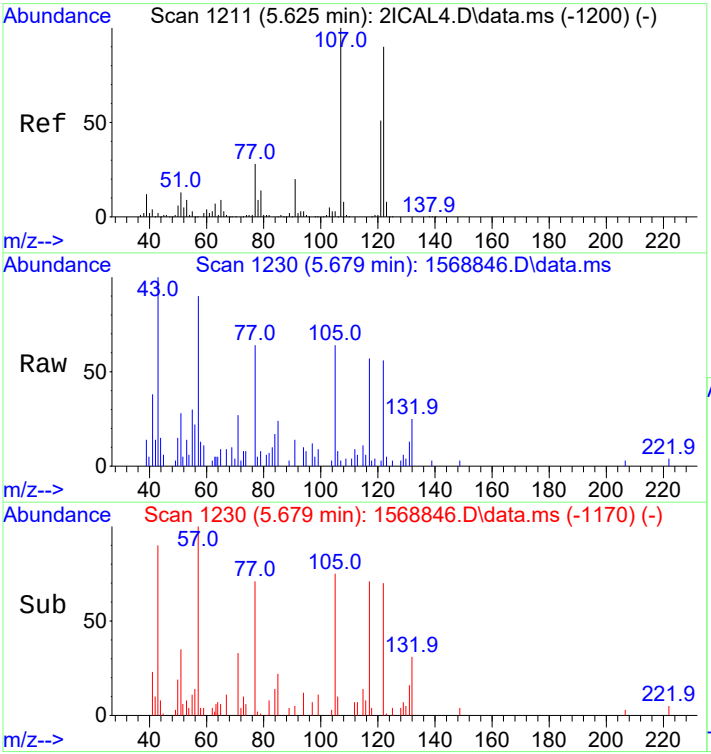



#18
Hexaclethane
Concen: 0.13 ug/mL
RT: 4.983 min Scan# 985
Delta R.T. 0.031 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:117 Resp: 643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 0.0 | 56.5 | 116.5# |
| 199 | 0.0 | 25.0 | 85.0# |

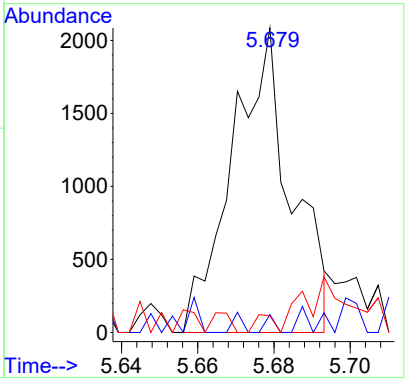


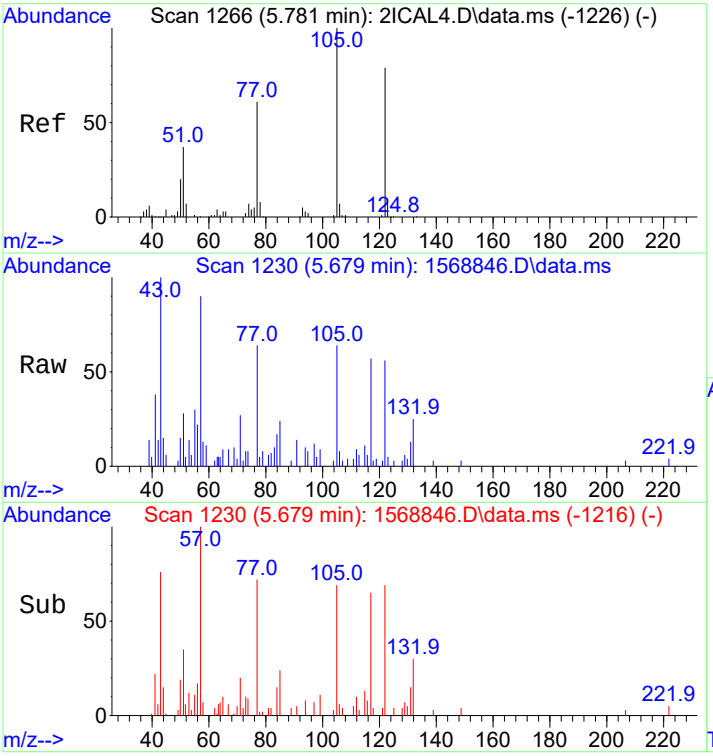




#26
24Dimthpheno
Concen: 0.19 ug/mL
RT: 5.679 min Scan# 1230
Delta R.T. 0.071 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:122 Resp: 2243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 5.9 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

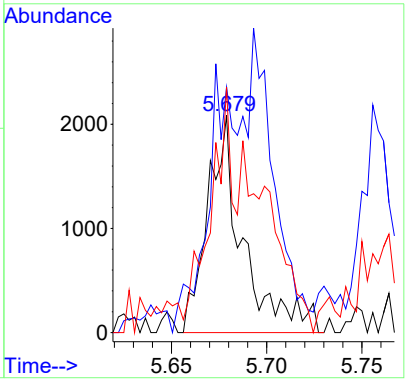


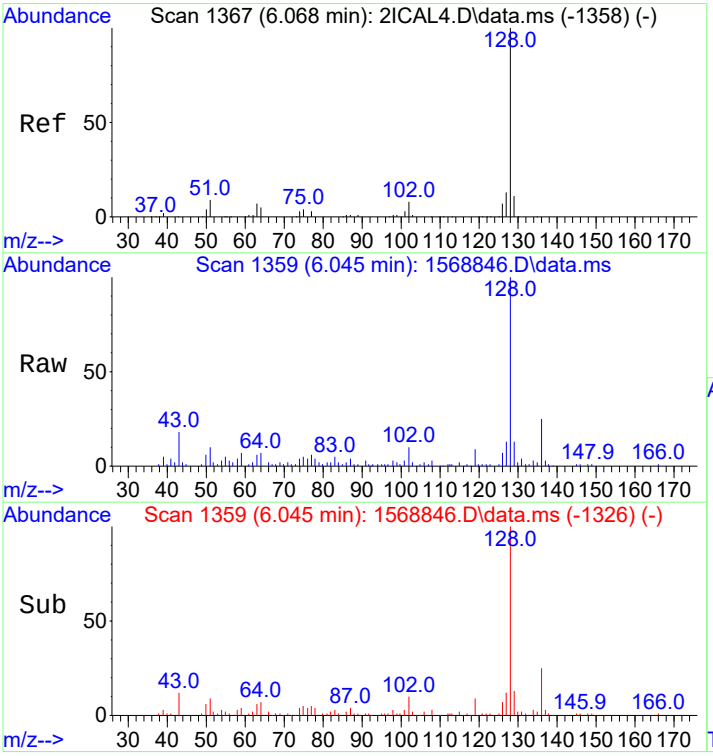



#30
Benzoic acid
Concen: 3.31 ug/mL
RT: 5.679 min Scan# 1230
Delta R.T. -0.091 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:122 Resp: 2702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 91.8 | 96.0 | 156.0# |
| 77 | 115.9 | 46.6 | 106.6# |

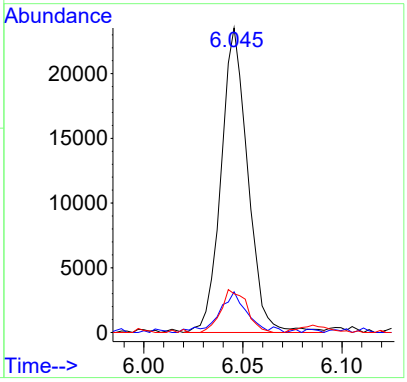


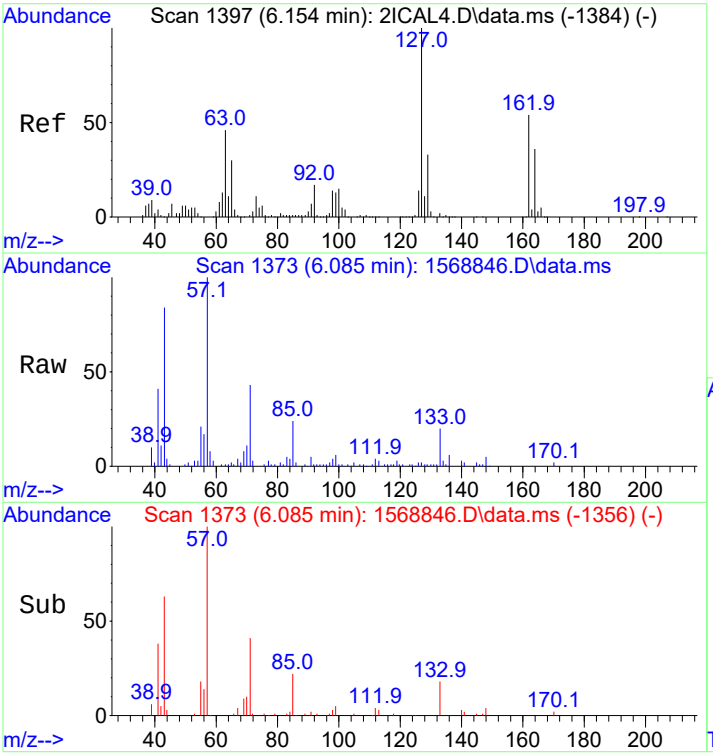




#31
Naphthalene
Concen: 0.56 ug/mL
RT: 6.045 min Scan# 1359
Delta R.T. -0.006 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:128 Resp: 22107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 13.3 | 0.0 | 41.0 |
| 127 | 11.7 | 0.0 | 43.3 |

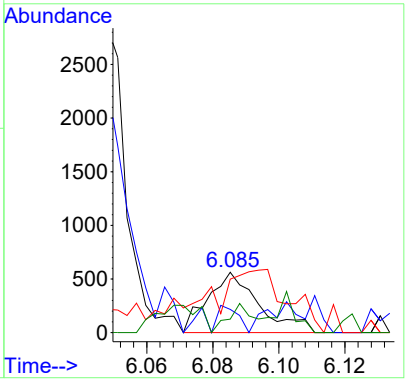


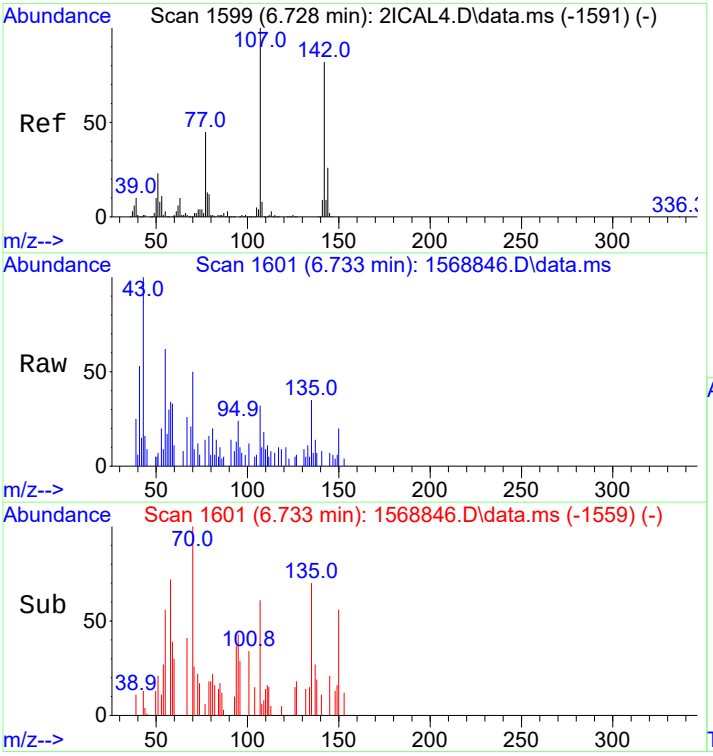



#32
4-Cl-aniline
Concen: 0.04 ug/mL
RT: 6.085 min Scan# 1373
Delta R.T. -0.051 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:127 Resp: 608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 38.5 | 3.1 | 63.1 |
| 65 | 125.8 | 0.2 | 60.2# |
| 92 | 22.4 | 0.0 | 46.7 |

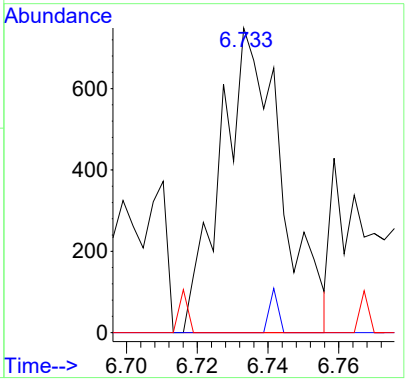


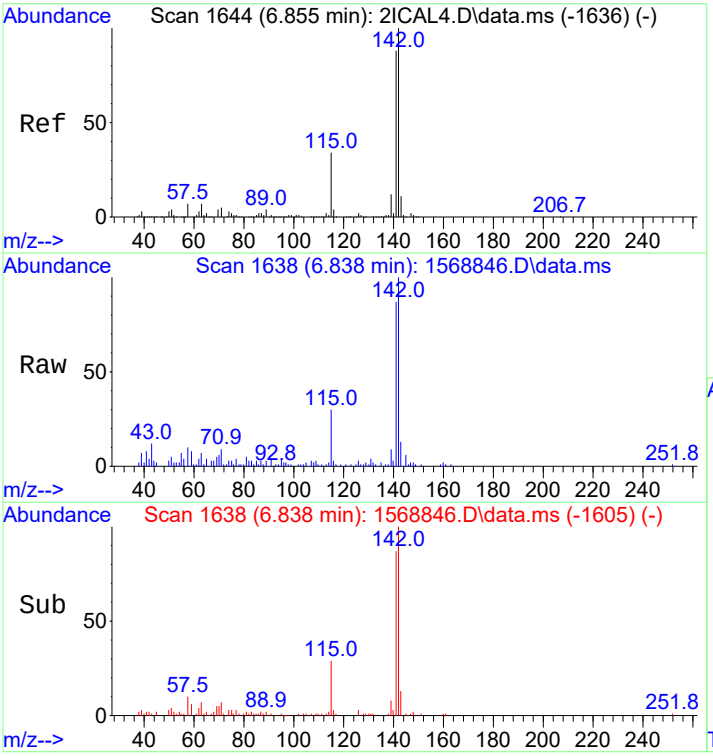




#36
4Cl3methylphe
Concen: 0.08 ug/mL
RT: 6.733 min Scan# 1601
Delta R.T. 0.020 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:107 Resp: 891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 142 | 0.0 | 51.9 | 111.9# |
| 144 | 0.0 | 0.0 | 55.8 |

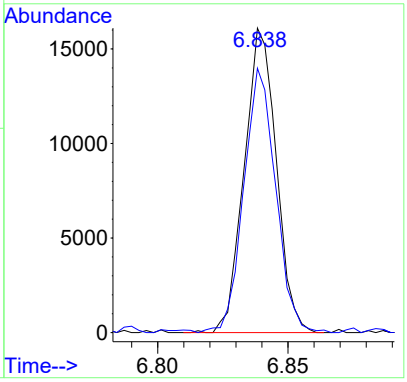


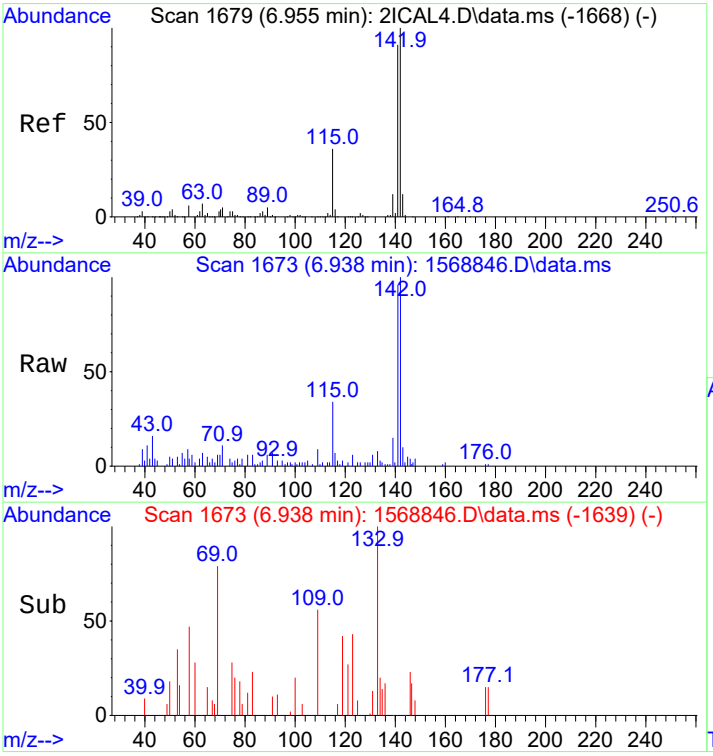



#37
2Methylnaphth
Concen: 0.58 ug/mL
RT: 6.838 min Scan# 1638
Delta R.T. -0.006 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:142 Resp: 13759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 85.9 | 58.0 | 118.0 |

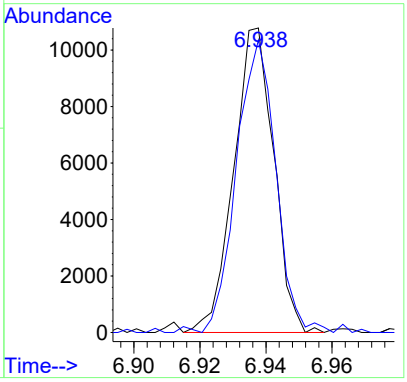


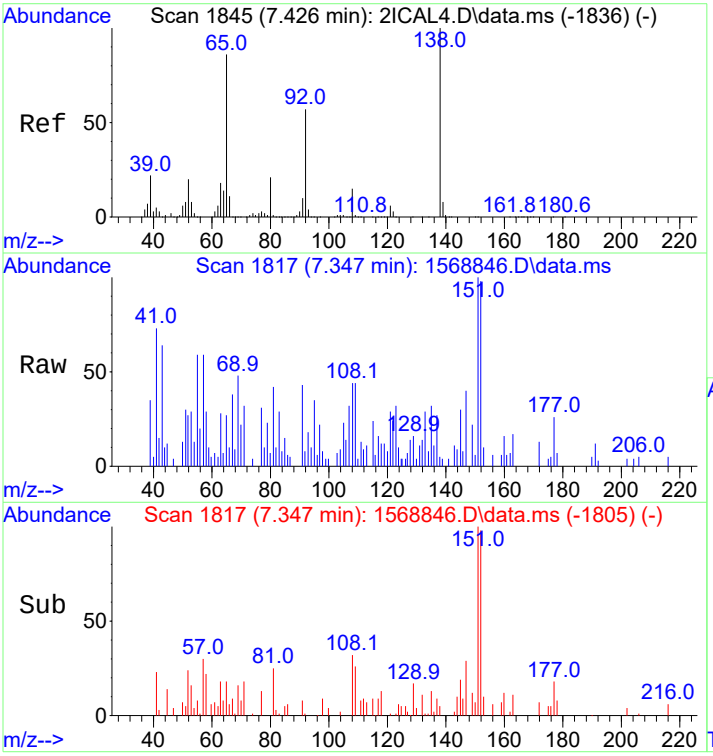




#38
1Methylnaphth
Concen: 0.37 ug/mL
RT: 6.938 min Scan# 1673
Delta R.T. -0.003 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:142 Resp: 9087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 94.3 | 60.7 | 120.7 |

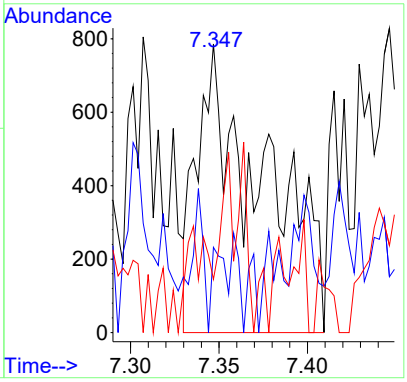


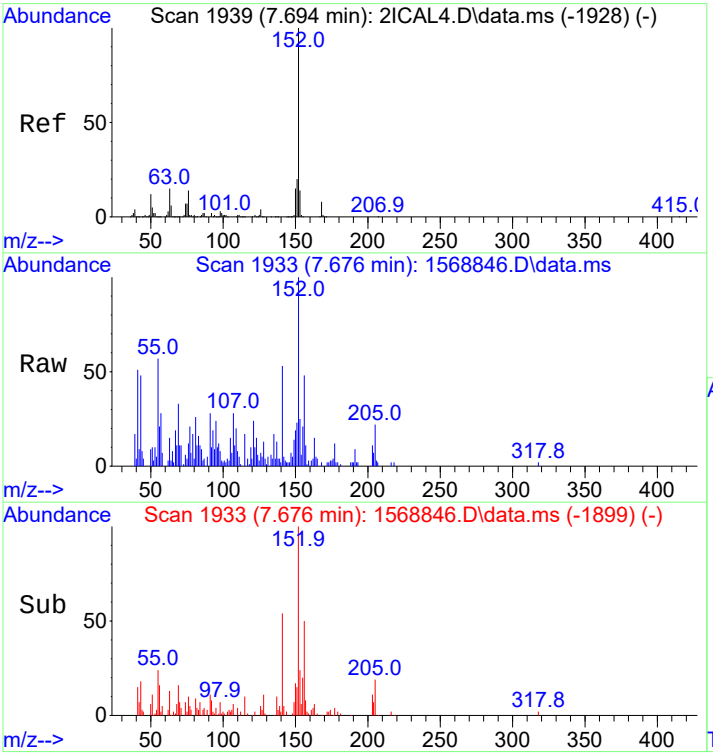



#46
2Nitroaniline
Concen: 0.54 ug/mL
RT: 7.347 min Scan# 1817
Delta R.T. -0.065 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion: 65 Resp: 2041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 13.5 | 36.2 | 96.2# |
| 138 | 16.5 | 85.6 | 145.6# |

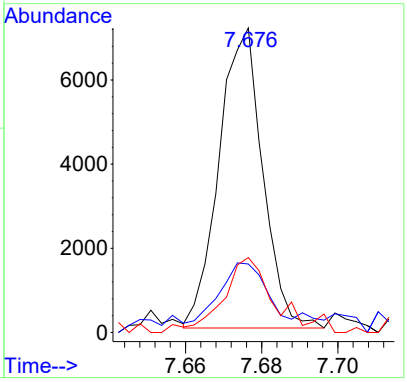


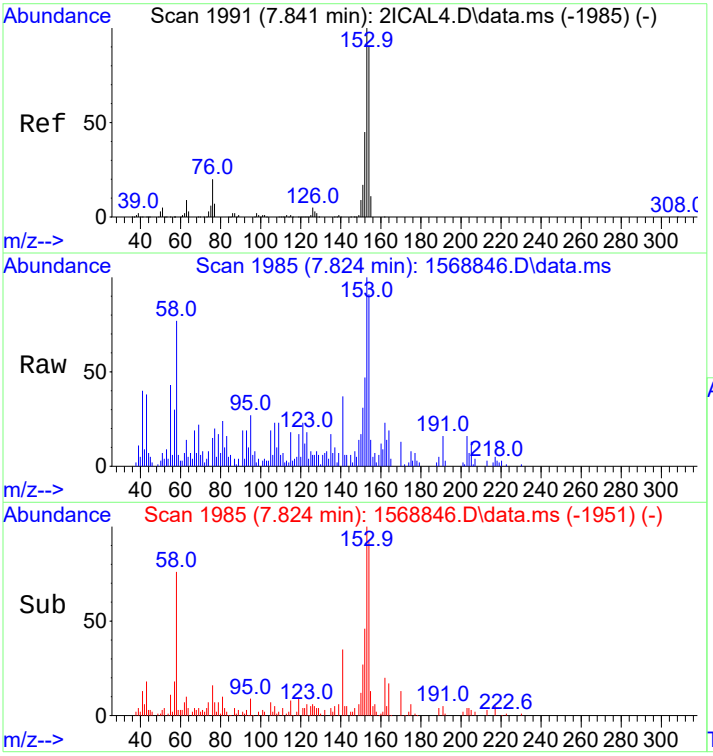




#47
Acnaphthylene
Concen: 0.14 ug/mL
RT: 7.676 min Scan# 1933
Delta R.T. -0.003 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:152 Resp: 5678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 0.0 | 50.3 |
| 153 | 23.9 | 0.0 | 44.4 |

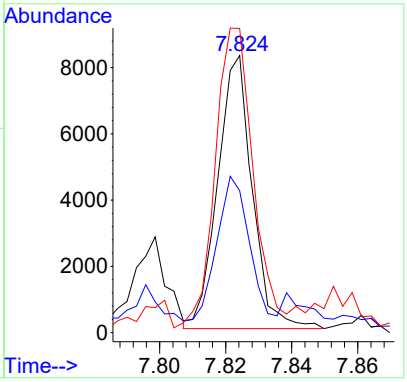


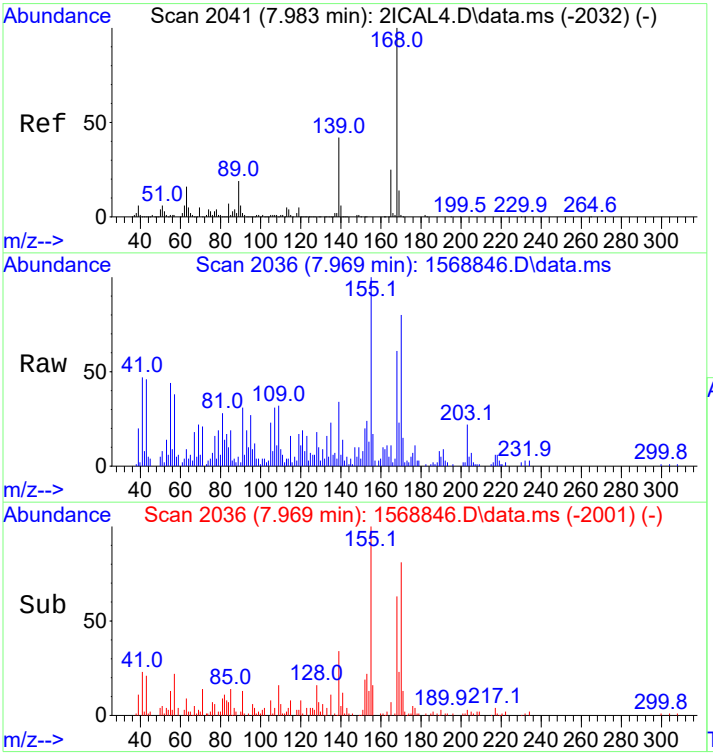



#50
Acenaphthene
Concen: 0.25 ug/mL
RT: 7.824 min Scan# 1985
Delta R.T. -0.003 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:154 Resp: 6013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 47.6 | 20.0 | 80.0 |
| 153 | 107.8 | 80.7 | 140.7 |

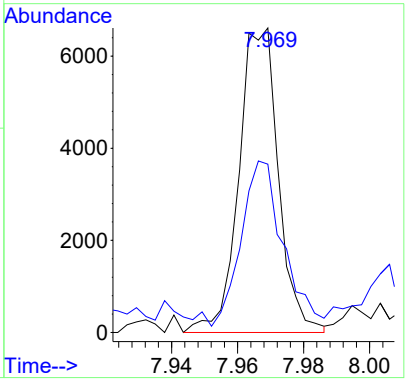


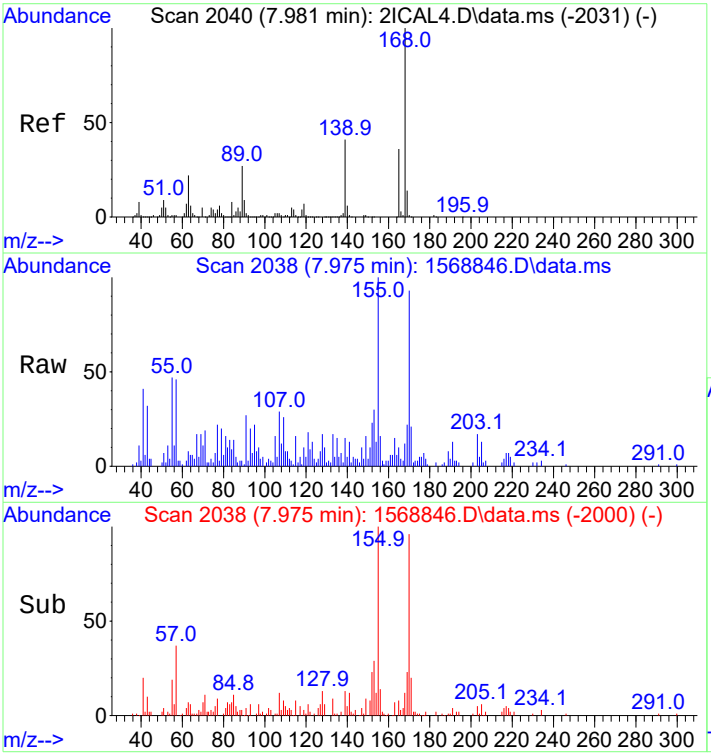




#53
Dibenzofuran
Concen: 0.16 ug/mL
RT: 7.969 min Scan# 2036
Delta R.T. -0.000 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:168 Resp: 5508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 50.2 | 11.9 | 71.9 |

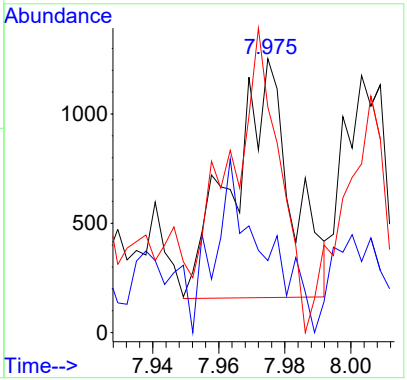


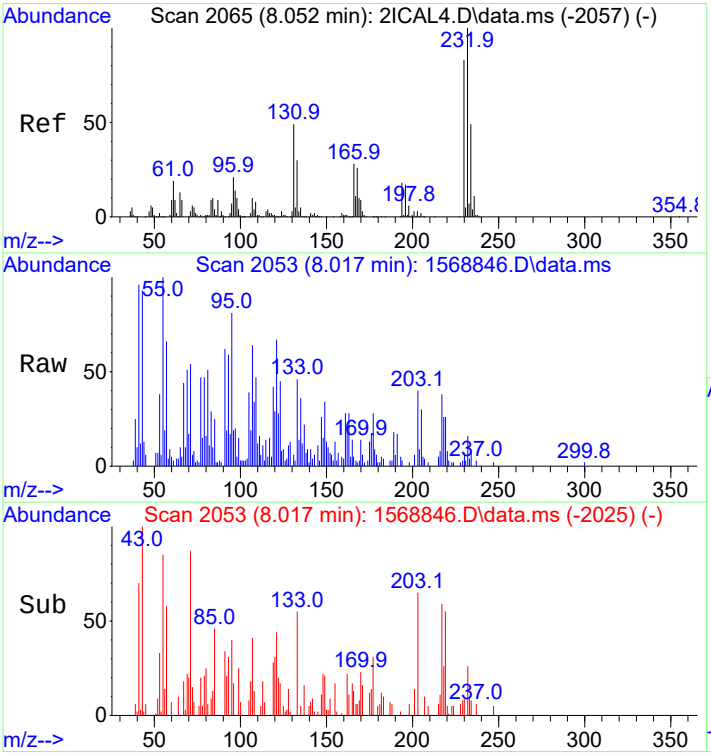



#54
24Dinitrotolu
Concen: 0.16 ug/mL
RT: 7.975 min Scan# 2038
Delta R.T. 0.009 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:165 Resp: 1351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 19.1 | 46.1 | 106.1# |
| 63 | 64.2 | 32.6 | 92.6 |

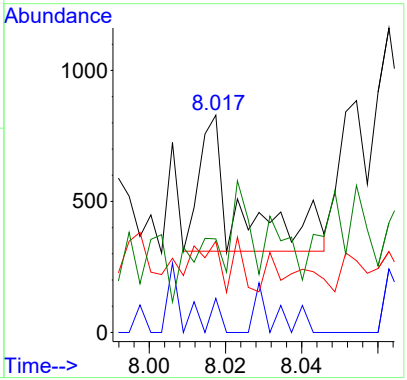


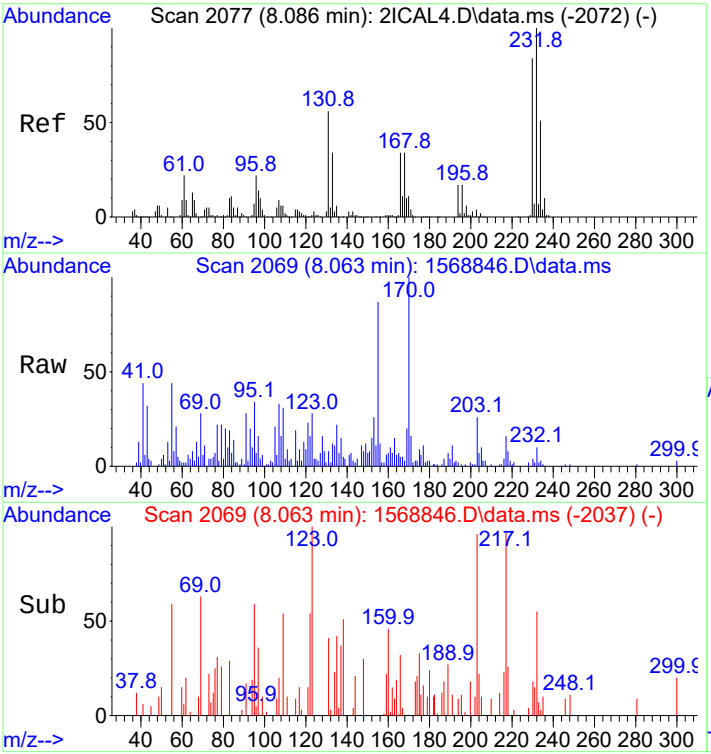




#56
2,3,5,6-Tetrachlorop
Concen: 0.61 ug/mL
RT: 8.017 min Scan# 2053
Delta R.T. -0.020 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:232 Resp: 376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 194 | 25.0 | 0.0 | 48.3 |
| 234 | 27.7 | 18.5 | 78.5 |
| 230 | 6.0 | 52.6 | 112.6# |

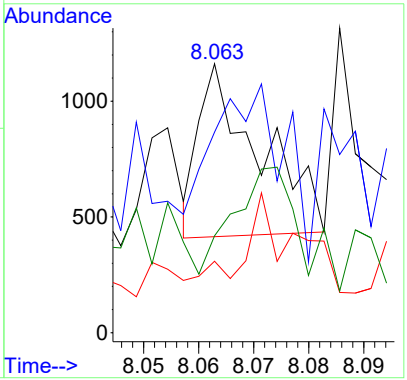


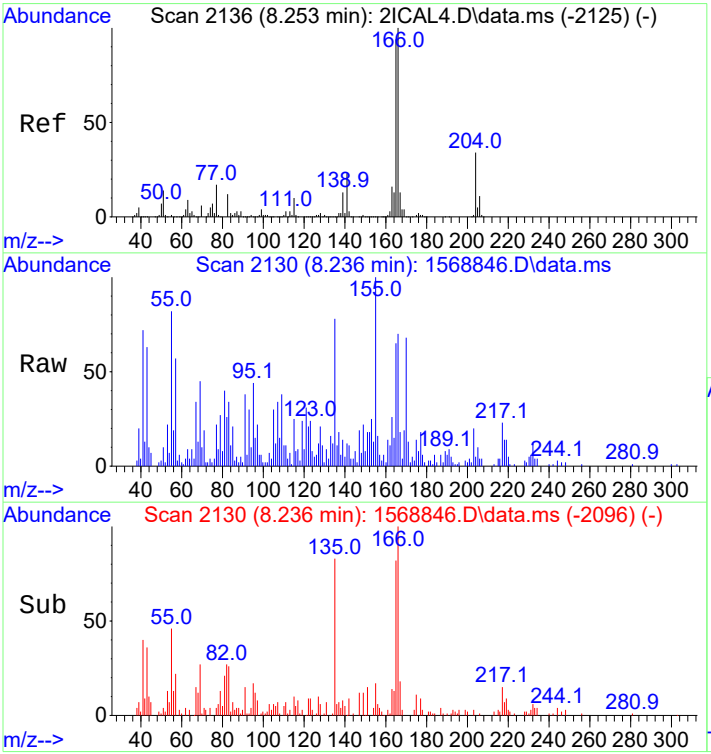



#57
2,3,4,6-Tetrachlorop
Concen: 0.41 ug/mL
RT: 8.063 min Scan# 2069
Delta R.T. -0.009 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:232 Resp: 571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 49.0 | 35.2 | 75.2 |
| 234 | 11.4 | 31.0 | 71.0# |
| 230 | 3.7 | 64.0 | 104.0# |

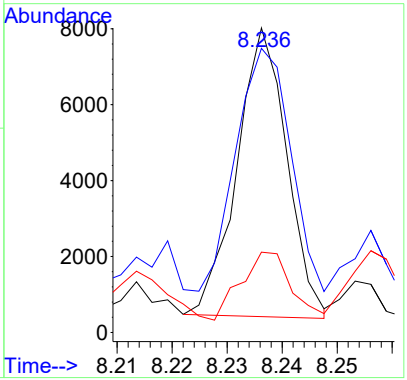


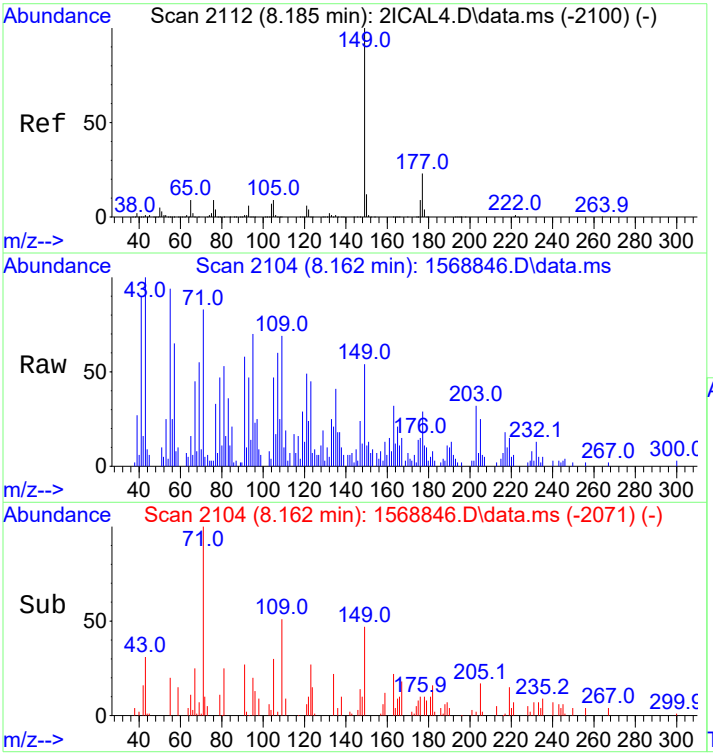




#58
Fluorene
Concen: 0.18 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:166 Resp: 4785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 84.9 | 63.6 | 123.6 |
| 167 | 21.5 | 0.0 | 43.3 |

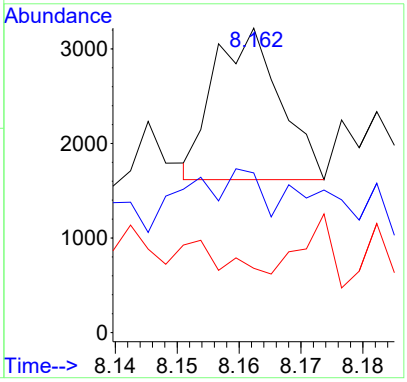


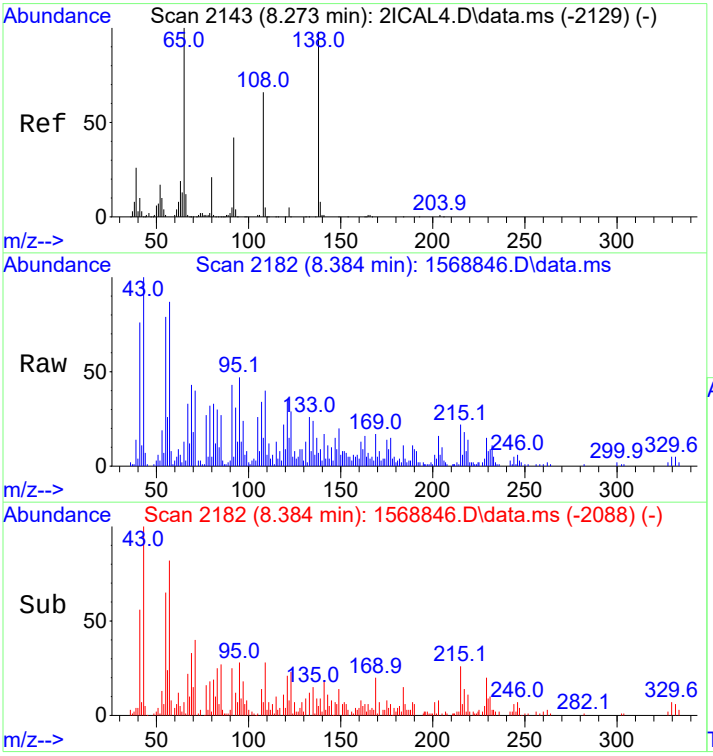



#60
Diethylphthal
Concen: 0.04 ug/mL
RT: 8.162 min Scan# 2104
Delta R.T. -0.006 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:149 Resp: 1187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 11.4 | 0.0 | 52.5 |
| 150 | 0.0 | 0.0 | 42.2 |

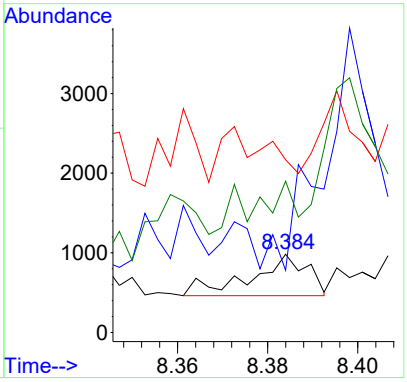


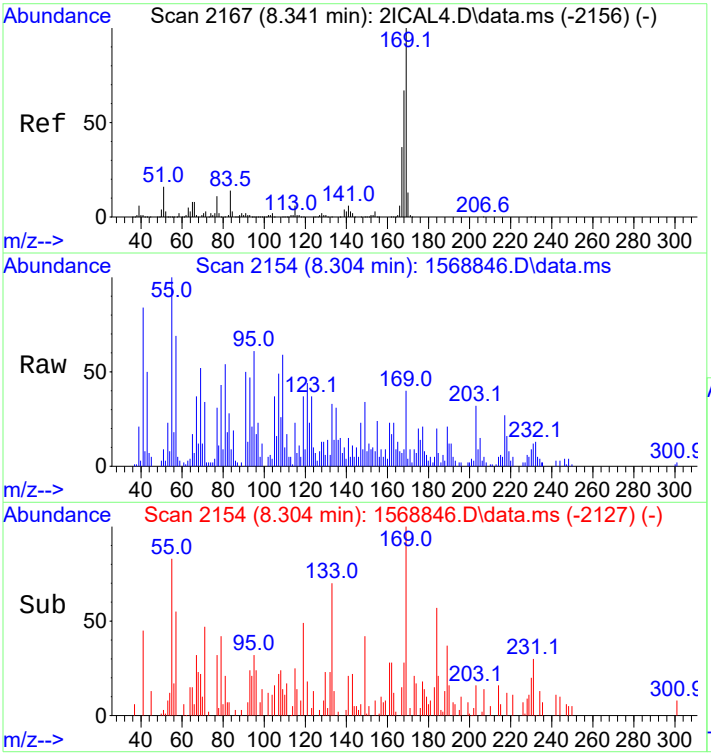




#61
4Nitroaniline
Concen: 0.39 ug/mL
RT: 8.384 min Scan# 2182
Delta R.T. 0.128 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:138 Resp: 448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 47.7 | 71.1 | 131.1# |

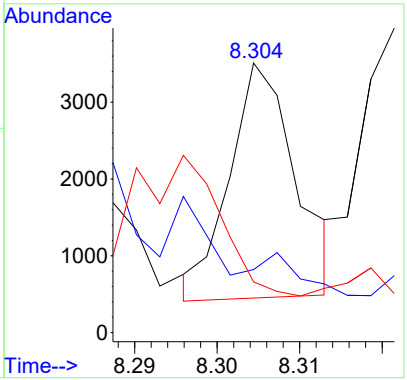


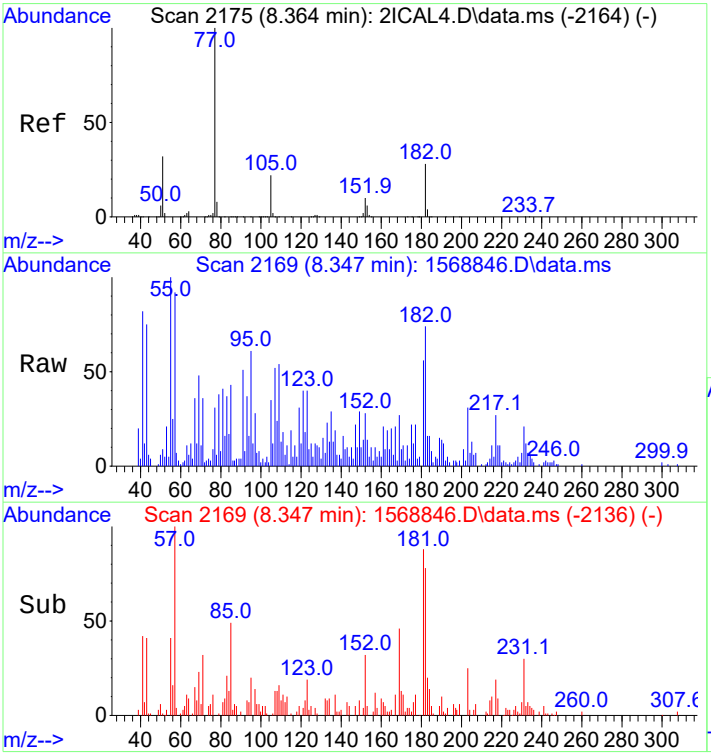



#65
Ntrsdiphlam&Diphlam
Concen: 0.09 ug/mL
RT: 8.304 min Scan# 2154
Delta R.T. -0.023 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:169 Resp: 1712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 6.7 | 37.2 | 97.2# |
| 167 | 3.2 | 6.9 | 66.9# |

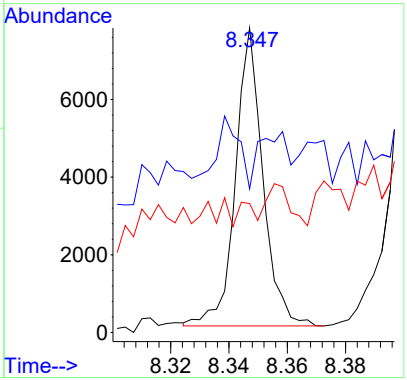


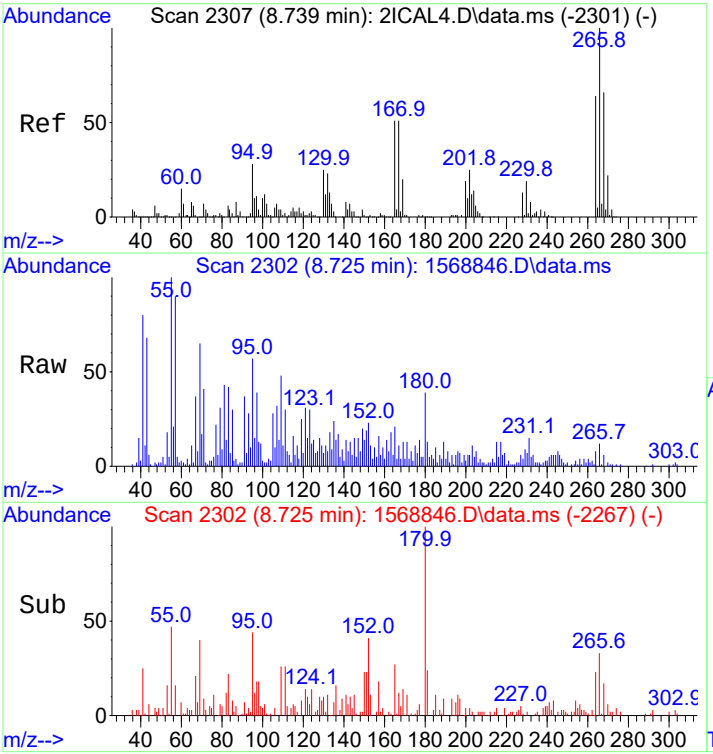




#66
Azobenz&12Diphlhyd
Concen: 0.78 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:182 Resp: 5018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.0 | 49.9 | 109.9# |
| 77 | 2.3 | 339.9 | 399.9# |

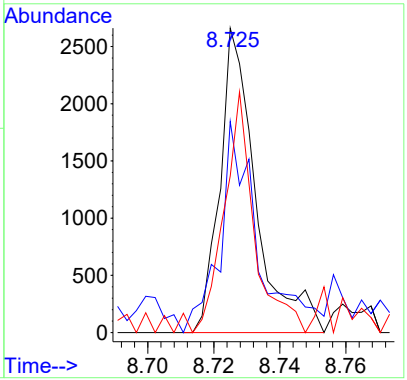


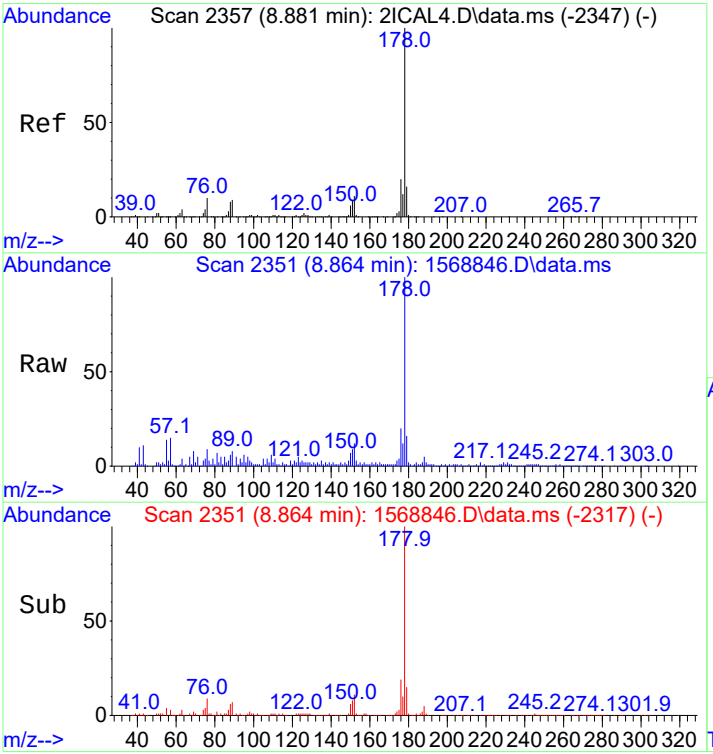



#69
Pentaclphenol
Concen: 3.87 ug/mL
RT: 8.725 min Scan# 2302
Delta R.T. -0.000 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:266 Resp: 2020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 69.3 | 34.2 | 94.2 |
| 268 | 45.1 | 36.2 | 96.2 |

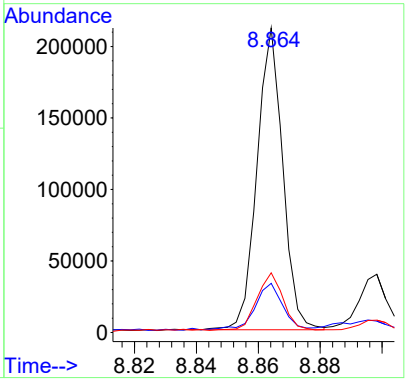


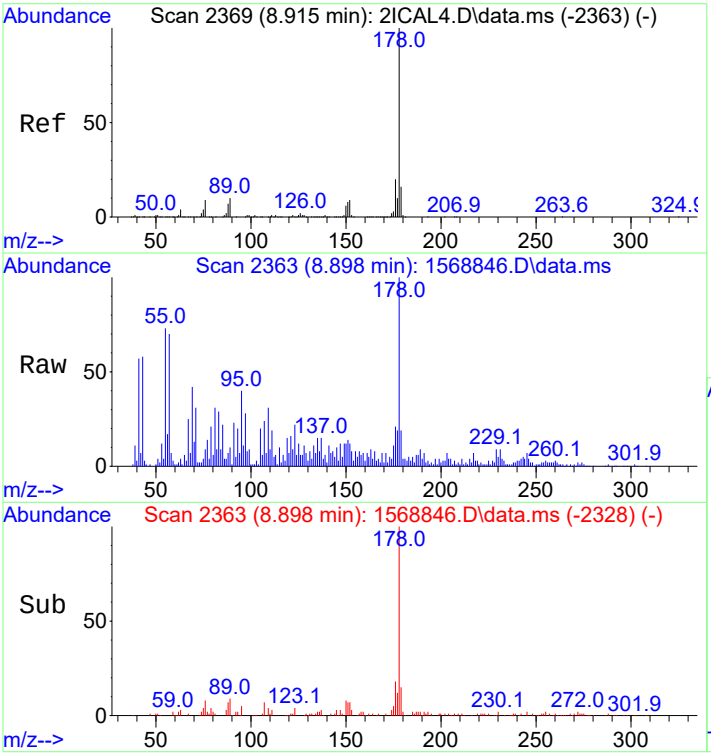




#70
Phenanthrene
Concen: 3.58 ug/mL
RT: 8.864 min Scan# 2351
Delta R.T. -0.003 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:178 Resp: 122170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.5 | 0.0 | 45.9 |
| 176 | 18.9 | 0.0 | 50.4 |

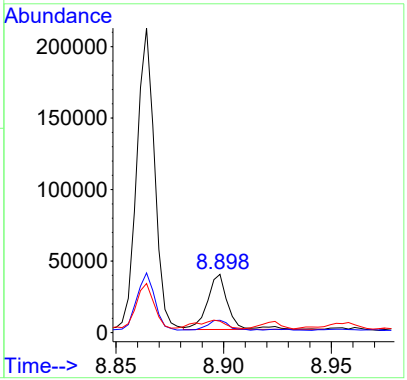


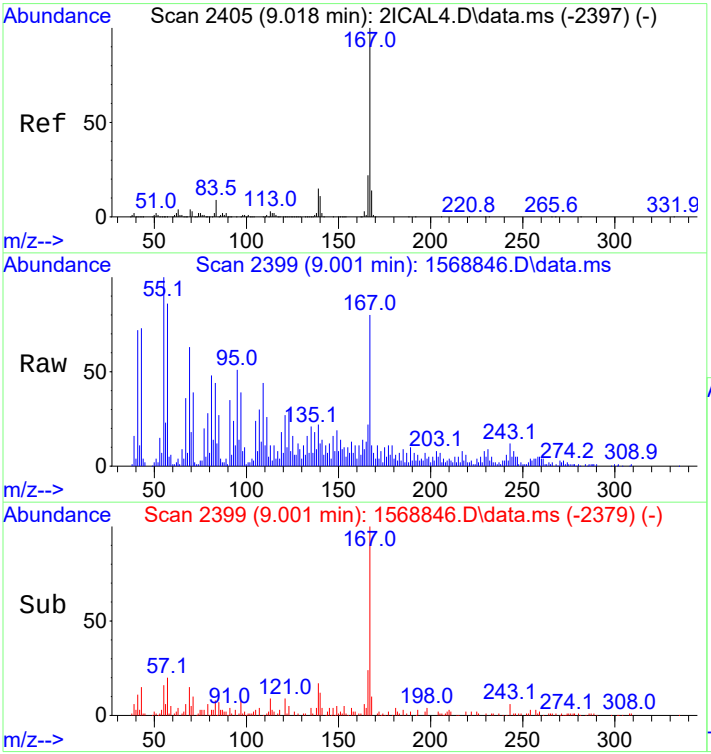



#71
Anthracene
Concen: 0.74 ug/mL
RT: 8.898 min Scan# 2363
Delta R.T. -0.000 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:178 Resp: 25823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.5 | 0.0 | 49.5 |
| 179 | 10.0 | 0.0 | 45.9 |

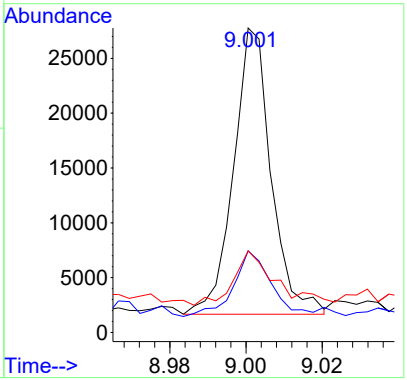


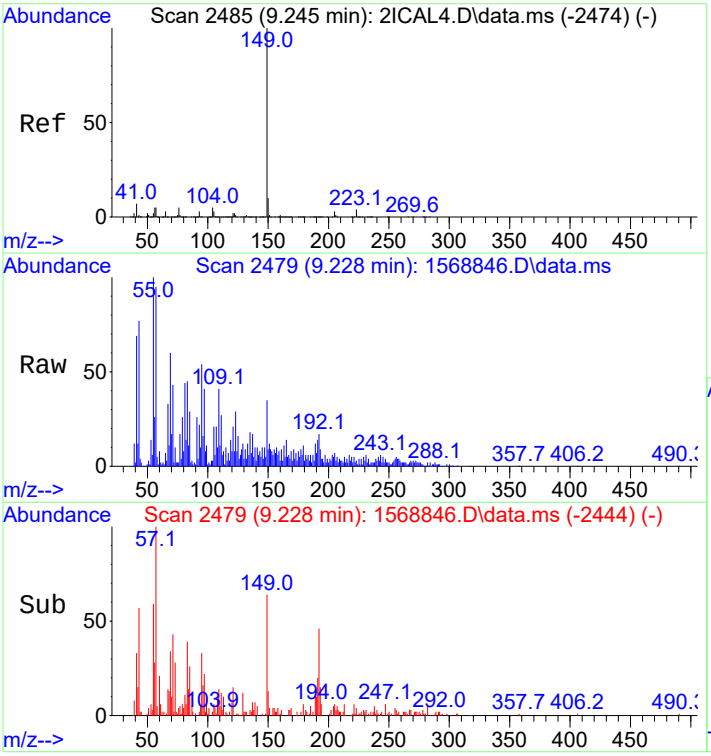




#72
Carbazole
Concen: 0.61 ug/mL
RT: 9.001 min Scan# 2399
Delta R.T. -0.003 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:167 Resp: 17939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.9 | 0.0 | 52.1 |
| 139 | 17.3 | 0.0 | 44.7 |

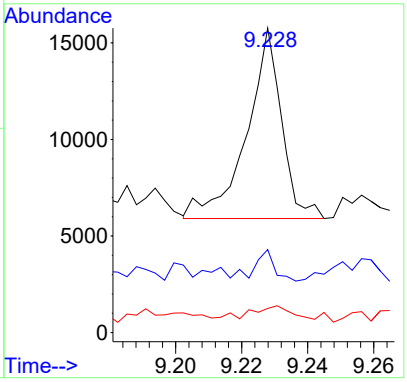


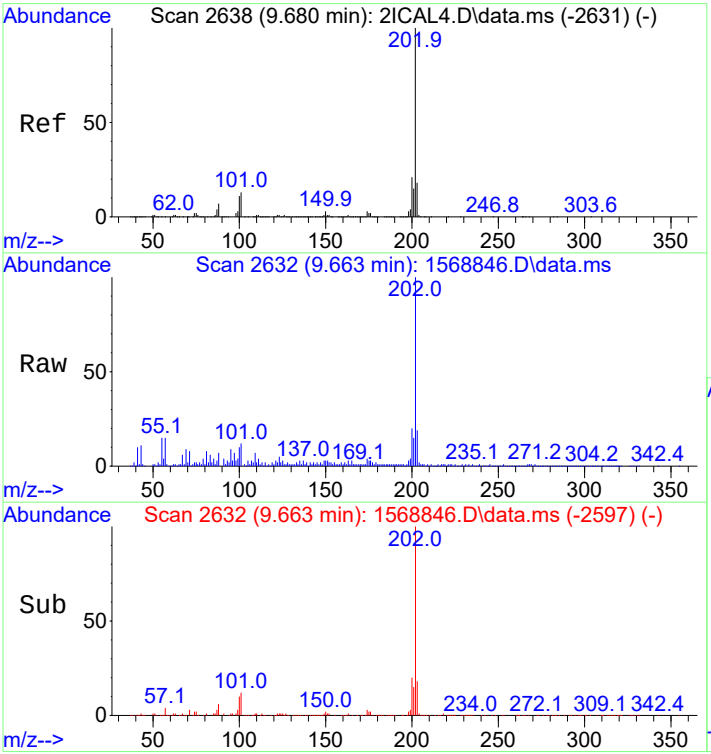



#73
Dinbtylphthal
Concen: 0.17 ug/mL
RT: 9.228 min Scan# 2479
Delta R.T. -0.000 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:149 Resp: 7232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 12.9 | 0.0 | 39.7 |
| 104 | 2.4 | 0.0 | 35.4 |

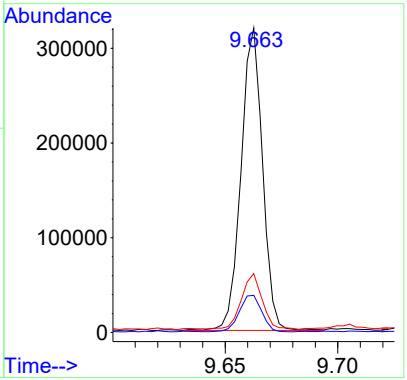


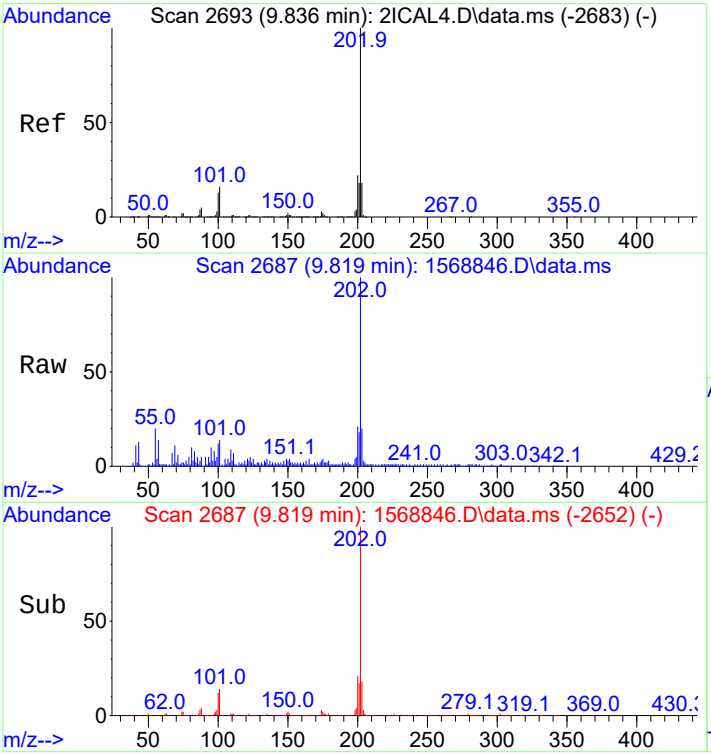




#74
Fluoranthene
Concen: 5.89 ug/mL
RT: 9.663 min Scan# 2632
Delta R.T. -0.000 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:202 Resp: 212256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.9 | 0.0 | 43.0 |
| 203 | 18.2 | 0.0 | 48.2 |

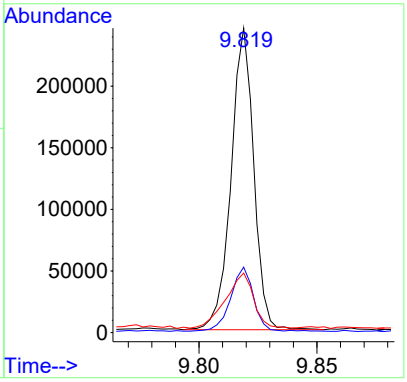


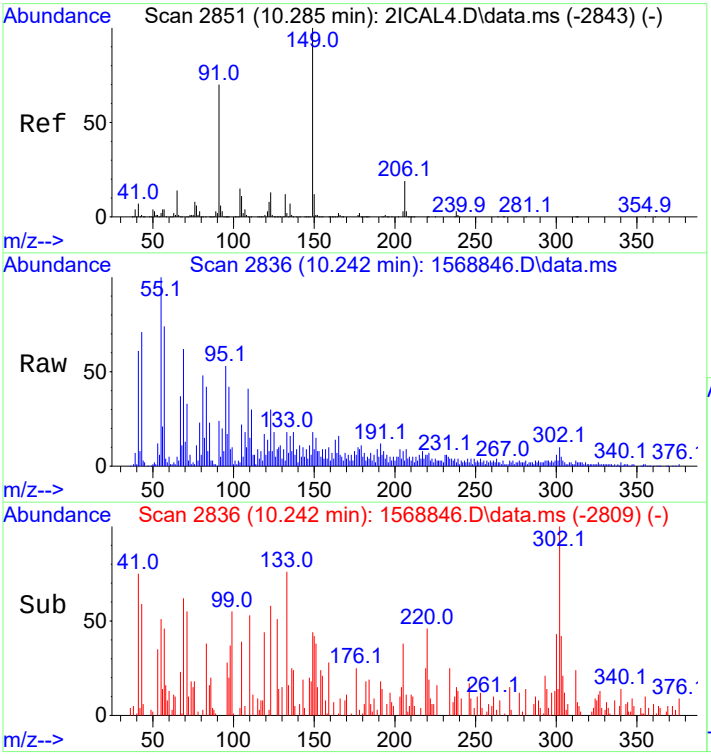



#77
Pyrene
Concen: 4.82 ug/mL
RT: 9.819 min Scan# 2687
Delta R.T. -0.000 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:202 Resp: 164012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.2 | 0.0 | 52.2 |
| 203 | 17.9 | 0.0 | 48.2 |

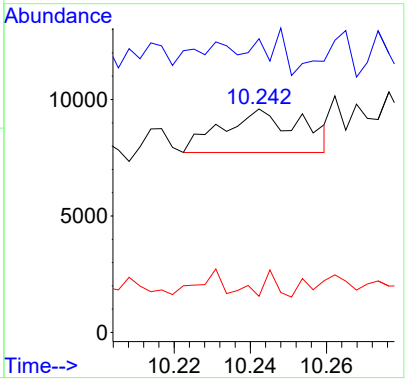


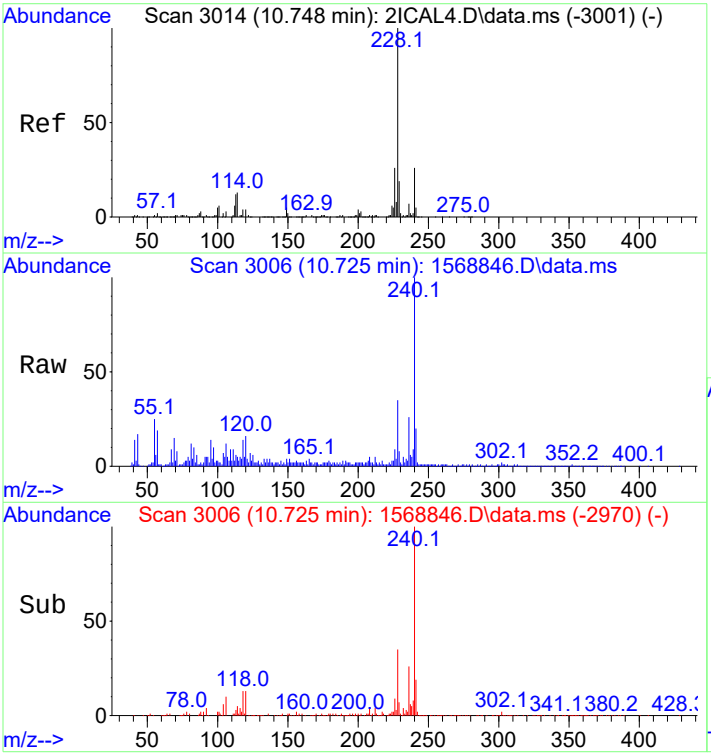




#79
Btylbzylphth
Concen: 0.15 ug/mL
RT: 10.242 min Scan# 2836
Delta R.T. -0.023 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:149 Resp: 2604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 51.7 | 40.1 | 100.1 |
| 206 | 0.0 | 0.0 | 49.4 |

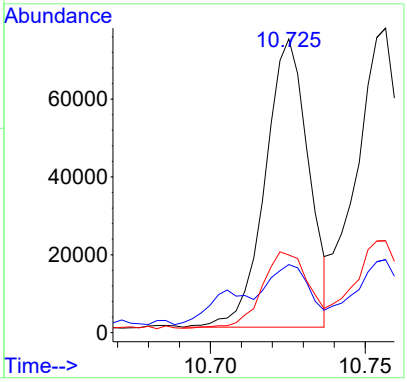


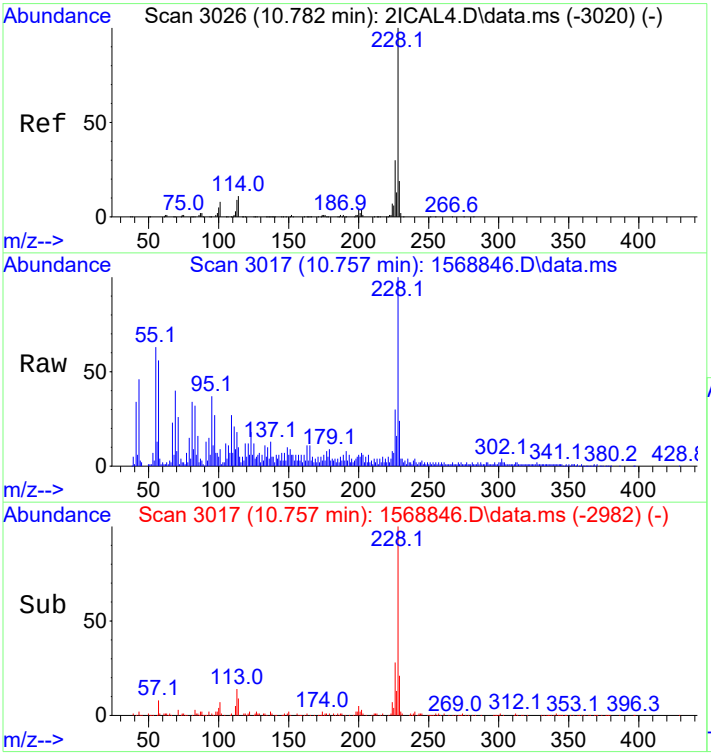



#82
B[a]anthracen
Concen: 2.24 ug/mL
RT: 10.725 min Scan# 3006
Delta R.T. 0.003 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:228 Resp: 72306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.1 | 0.0 | 49.4 |
| 226 | 25.4 | 0.0 | 56.5 |

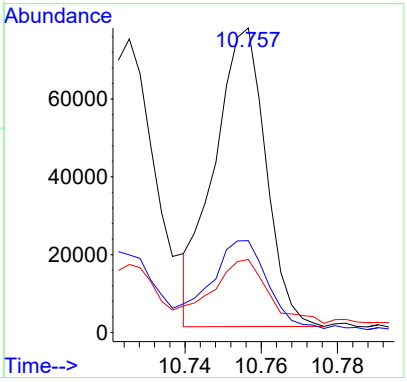


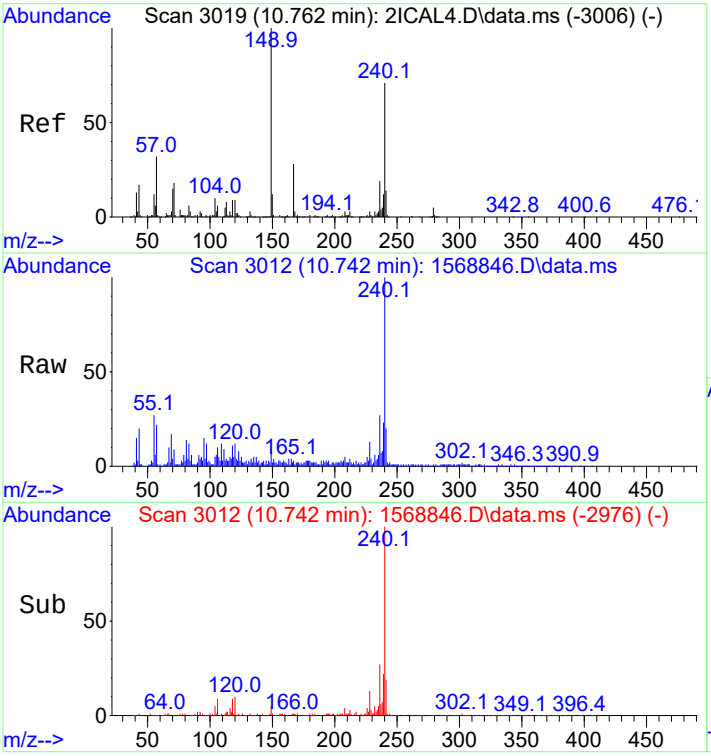




#83
Chrysene
Concen: 2.40 ug/mL
RT: 10.757 min Scan# 3017
Delta R.T. -0.000 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:228 Resp: 72495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.5 | 0.0 | 59.9 |
| 229 | 21.4 | 0.0 | 49.5 |

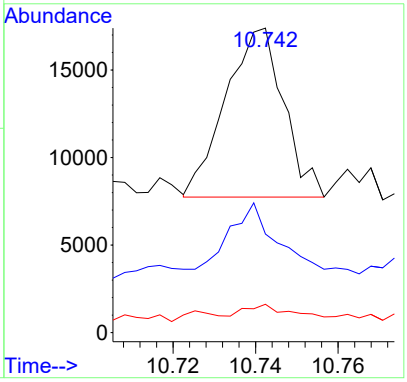


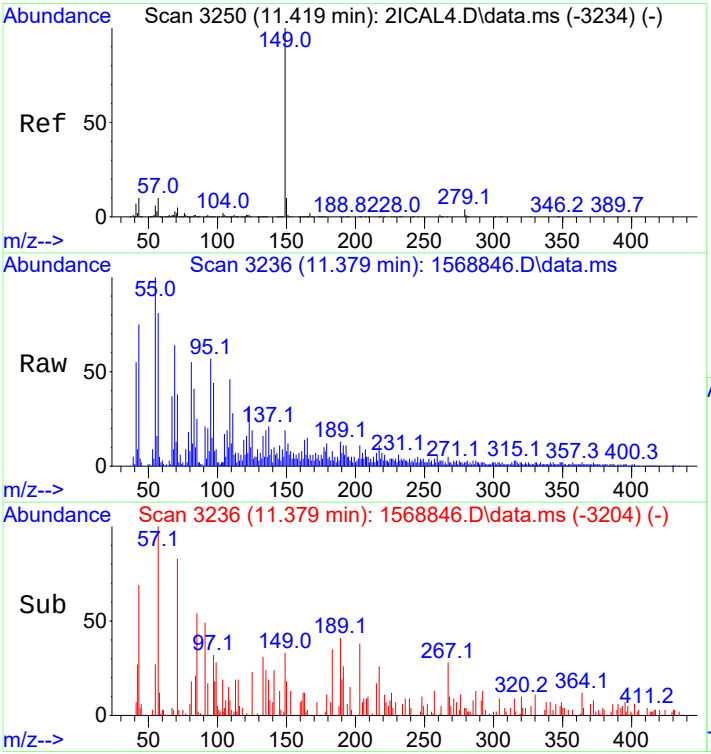



#84
bis2Ethlhxlph
Concen: 0.38 ug/mL
RT: 10.742 min Scan# 3012
Delta R.T. 0.003 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:149 Resp: 9442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 20.9 | 0.0 | 57.9 |
| 279 | 7.5 | 0.0 | 34.9 |

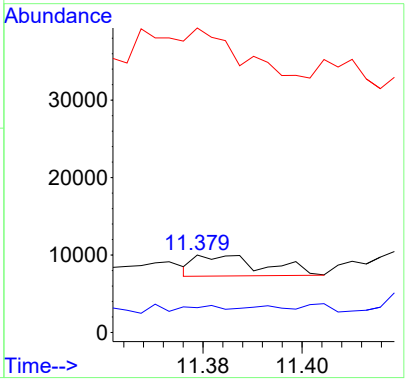


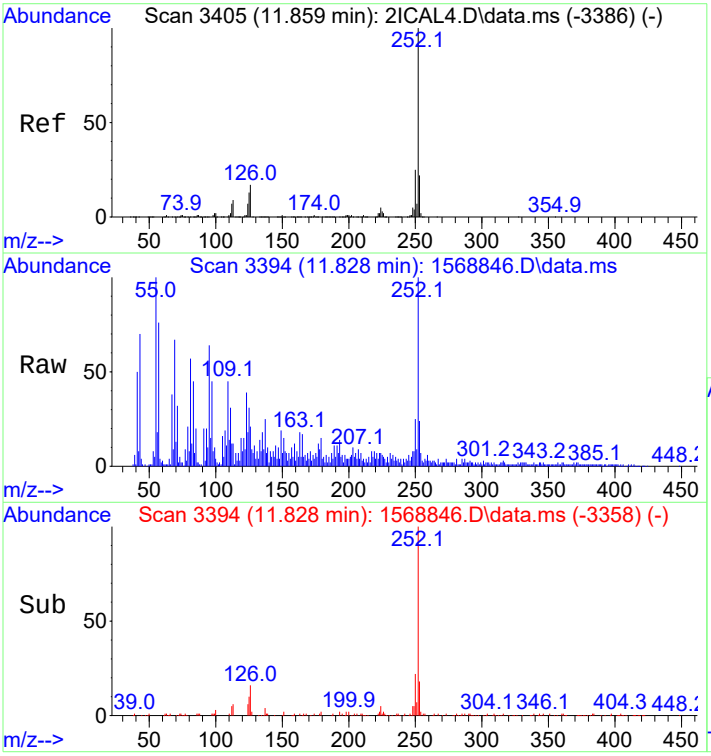




#85
Dinoctylphthl
Concen: 0.38 ug/mL
RT: 11.379 min Scan# 3236
Delta R.T. -0.009 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:149 Resp: 2605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 0.0 | 0.0 | 31.6 |
| 43 | 158.6 | 0.0 | 39.9# |

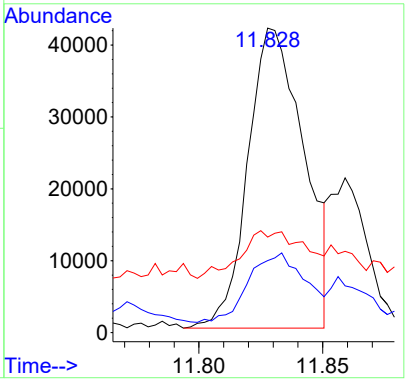


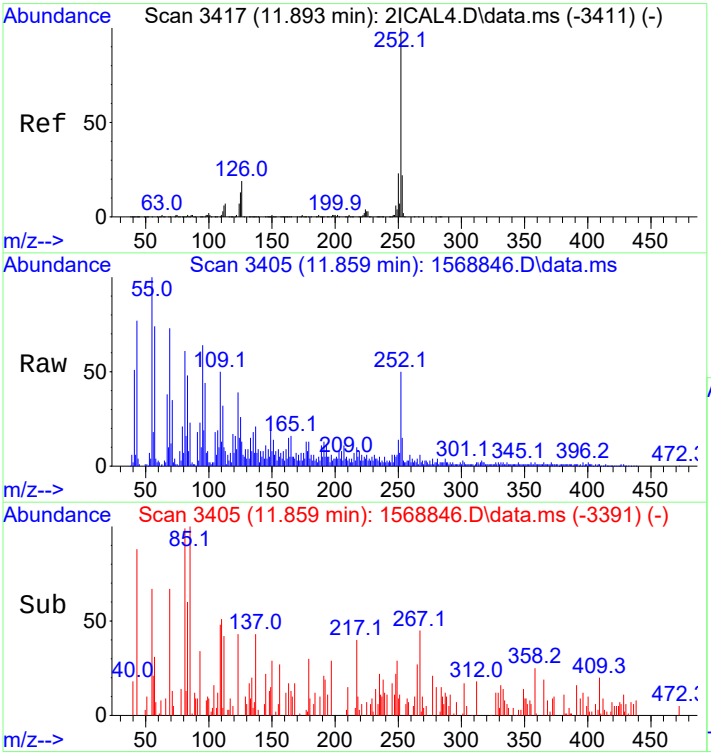



#87
B[b]fluoranth
Concen: 5.05 ug/mL
RT: 11.828 min Scan# 3394
Delta R.T. 0.003 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:252 Resp: 65872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.0 | 0.0 | 52.3 |
| 125 | 8.8 | 0.0 | 43.2 |

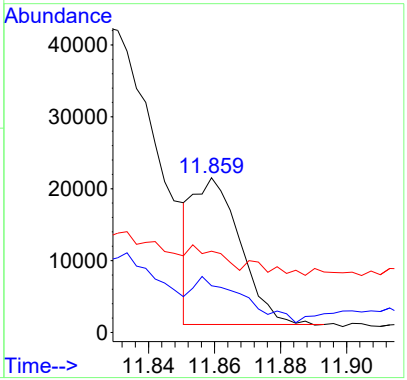


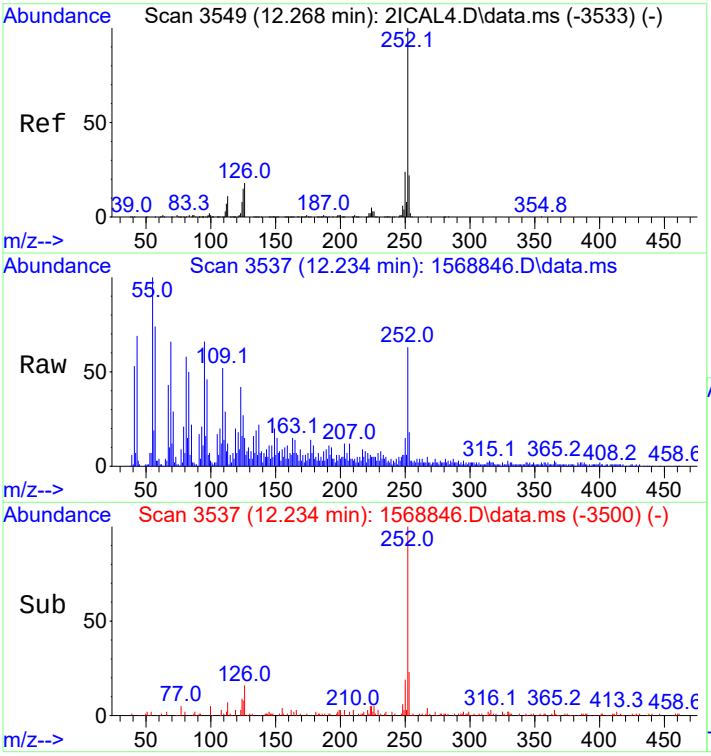




#88
B[k]fluoranth
Concen: 1.56 ug/mL
RT: 11.859 min Scan# 3405
Delta R.T. -0.000 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:252 Resp: 20408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 19.2 | 0.0 | 52.0 |
| 125 | 14.2 | 0.0 | 43.3 |

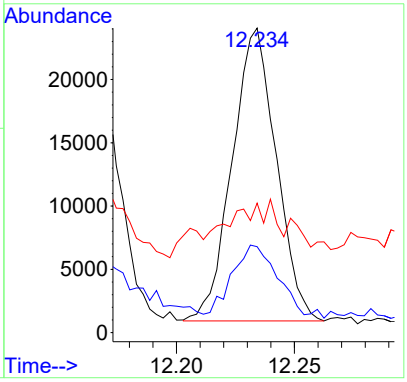


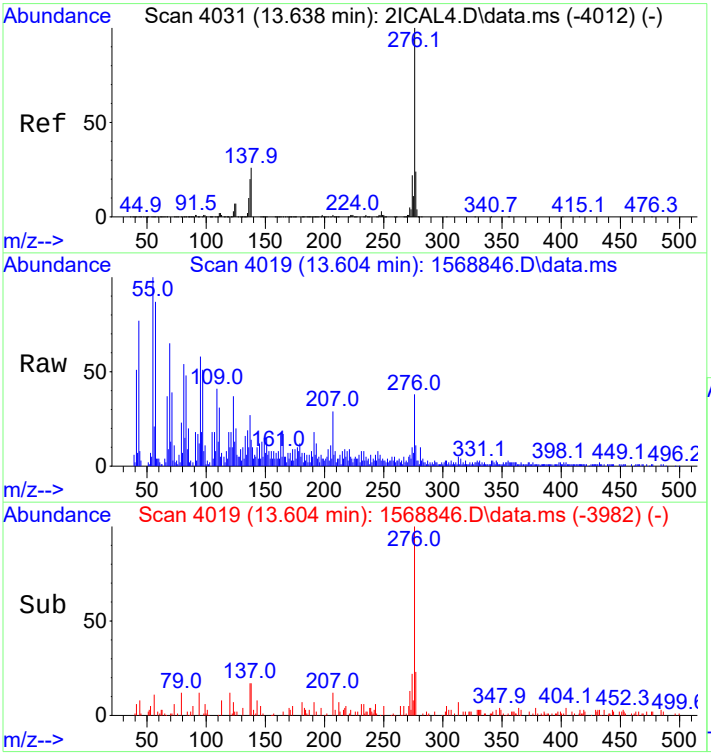



#89
Benz[a]pyrene
Concen: 2.52 ug/mL
RT: 12.234 min Scan# 3537
Delta R.T. 0.006 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:252 Resp: 30179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.4 | 0.0 | 52.3 |
| 125 | 13.2 | 0.0 | 45.1 |

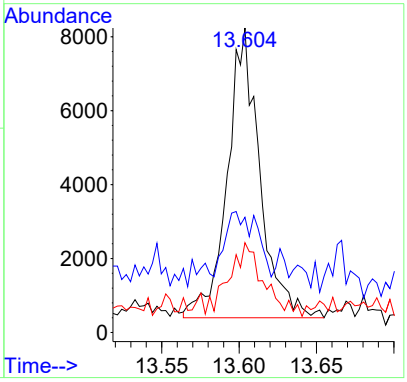


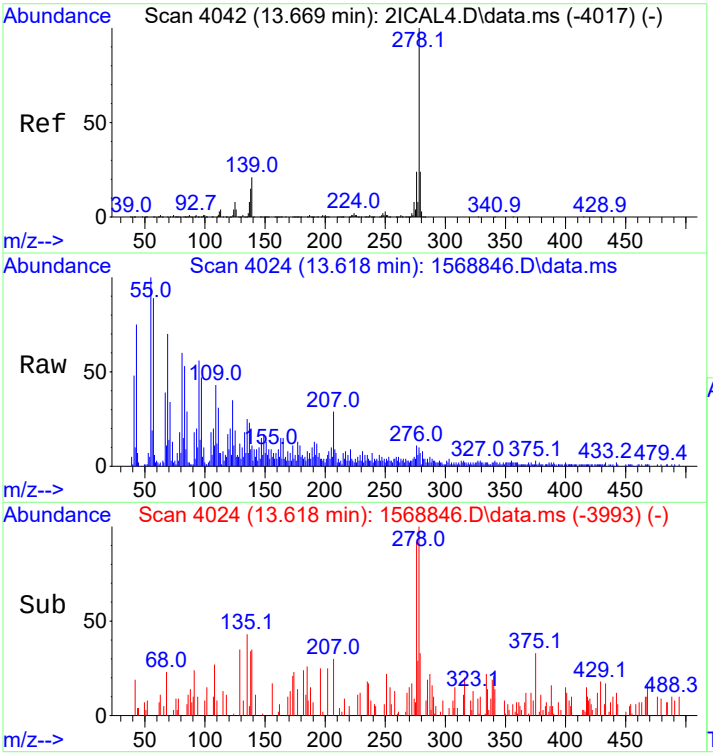




#90
Indeno-pyrene
Concen: 0.86 ug/mL
RT: 13.604 min Scan# 4019
Delta R.T. 0.006 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:276 Resp: 11455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 20.4 | 0.0 | 55.5 |
| 277 | 21.2 | 0.0 | 54.0 |

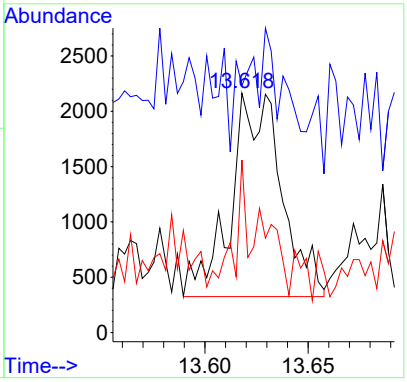


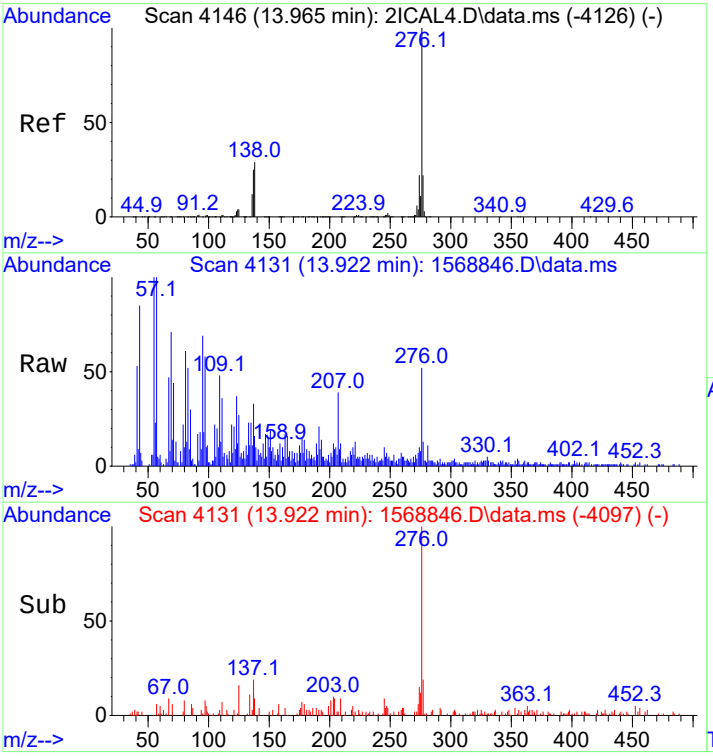



#91
Dib[ah]anthr
Concen: 0.29 ug/mL
RT: 13.618 min Scan# 4024
Delta R.T. -0.011 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:278 Resp: 3140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 43.5 | 0.0 | 50.9 |
| 279 | 54.6 | 0.0 | 54.4# |

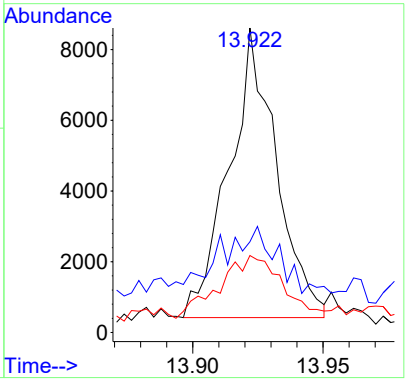



#92
B[ghi]perylen
Concen: 0.99 ug/mL
RT: 13.922 min Scan# 4131
Delta R.T. -0.003 min
Lab File: 1568846.D
Acq: 10 Apr 2025 22:20

Tgt Ion:276 Resp: 10298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 15.4 | 0.0 | 59.0 |
| 277 | 19.3 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568838.D Vial: 38
Acq On : 10 Apr 2025 23:07 Operator: ALD
Sample : 290730,1568838,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 23:23:55 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

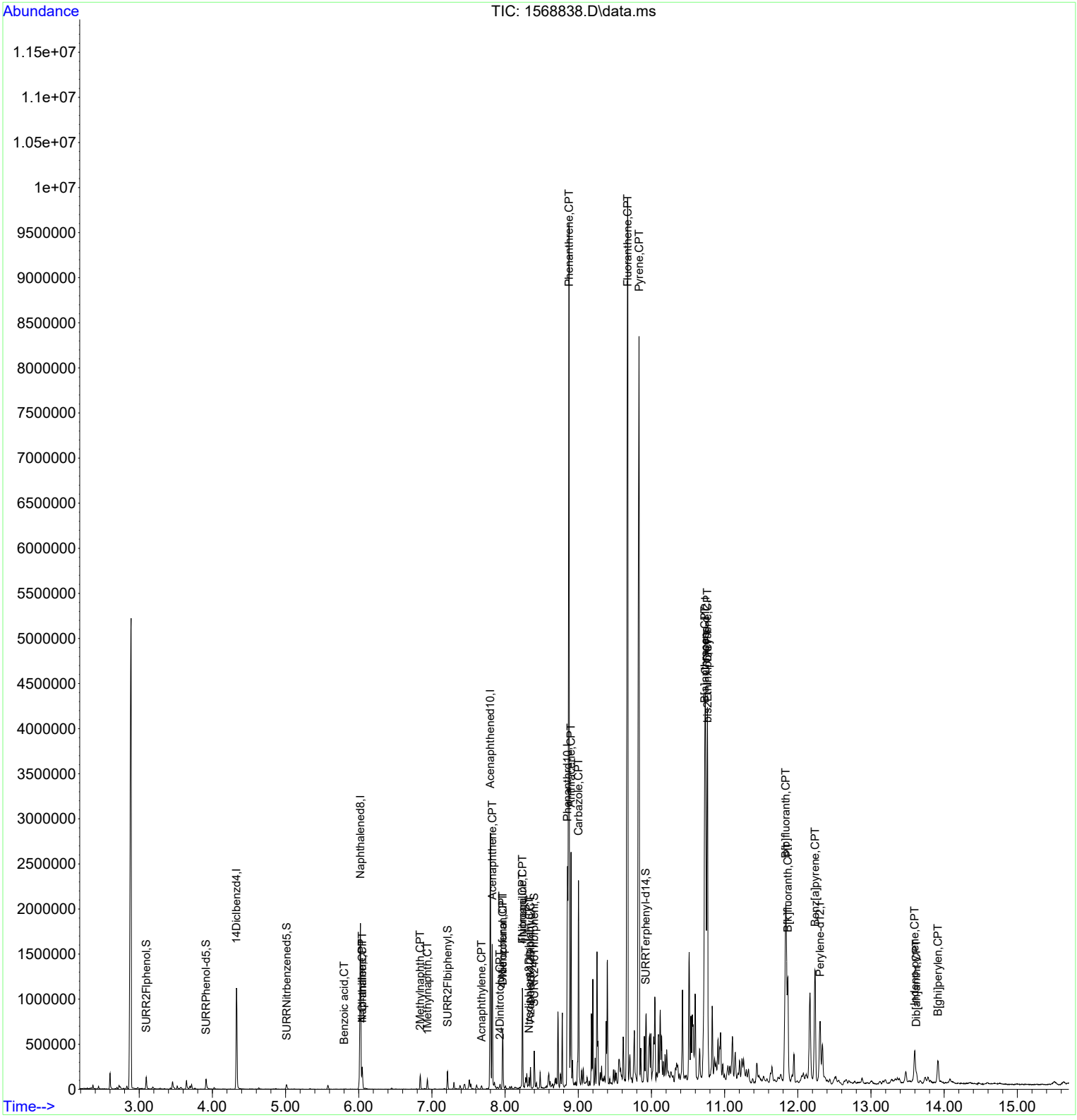
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.329 | 152 | 177019 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.023 | 136 | 894770 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 514138 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.853 | 188 | 755507 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.740 | 240 | 587084 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.305 | 264 | 320936 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.096 | 112 | 30407 | 7.13 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 7.13% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 41550 | 8.11 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 8.11% | | | |
| 22) SURRNitrbenzened5 | 5.014 | 82 | 17467 | 7.16 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 7.16% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 51773 | 8.44 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 8.44% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 12744 | 9.26 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 9.26% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 59458 | 10.39 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 10.39% | | | |
| Target Compounds | | | | | | Qvalue |
| 30) Benzoic acid | 5.801 | 122 | 784 | 3.0385 | ug/mL# | 13 |
| 31) Naphthalene | 6.048 | 128 | 101814 | 2.4673 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.048 | 127 | 11511 | 0.7148 | ug/mL# | 41 |
| 37) 2Methylnaphth | 6.841 | 142 | 38086 | 1.5271 | ug/mL | 94 |
| 38) 1Methylnaphth | 6.938 | 142 | 25466 | 0.9873 | ug/mL | 94 |
| 47) Acnaphthylene | 7.676 | 152 | 6636 | 0.1595 | ug/mL | 92 |
| 50) Acenaphthene | 7.824 | 154 | 271736 | 10.9883 | ug/mL | 96 |
| 53) Dibenzofuran | 7.966 | 168 | 206752 | 5.7895 | ug/mL | 98 |
| 54) 24Dinitrotolu | 7.929 | 165 | 1084 | 0.1201 | ug/mL# | 49 |
| 55) 4-Nitrophenol | 7.969 | 65 | 1212 | 1.4838 | ug/mL# | 1 |
| 58) Fluorene | 8.236 | 166 | 235662 | 8.6323 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.236 | 138 | 2977 | 0.7824 | ug/mL# | 36 |
| 65) Ntrsdiphlam&Diphlam | 8.327 | 169 | 5029 | 0.2582 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 37280 | 5.3672 | ug/mL# | 1 |
| 70) Phenanthrene | 8.873 | 178 | 2846966 | 77.3466 | ug/mL | 95 |
| 71) Anthracene | 8.901 | 178 | 681558 | 18.1995 | ug/mL | 99 |
| 72) Carbazole | 9.003 | 167 | 606762 | 19.0273 | ug/mL | 99 |
| 74) Fluoranthene | 9.674 | 202 | 3787505 | 97.4466 | ug/mL | 95 |
| 76) Benzidine | 9.788 | 184 | 663 | Below Cal # | | 36 |
| 77) Pyrene | 9.830 | 202 | 2952921 | 79.1870 | ug/mL | 96 |
| 81) 33Diclbnzidin | 10.623 | 252 | 512 | Below Cal # | | 73 |
| 82) B[a]anthracen | 10.728 | 228 | 1511662 | 42.7677 | ug/mL | 96 |
| 83) Chrysene | 10.765 | 228 | 1368728 | 41.2900 | ug/mL | 97 |
| 84) bis2Ethlhxlph | 10.768 | 149 | 5534 | 0.2057 | ug/mL | 53 |
| 87) B[b]fluoranth | 11.836 | 252 | 1208562 | 71.0896 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.865 | 252 | 426003 | 25.0103 | ug/mL | 96 |
| 89) Benz[a]pyrene | 12.237 | 252 | 619116 | 39.5995 | ug/mL | 99 |
| 90) Indeno-pyrene | 13.598 | 276 | 194341 | 11.2386 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.618 | 278 | 45245 | 3.2009 | ug/mL | 92 |
| 92) B[ghi]perylen | 13.913 | 276 | 139796 | 10.3185 | ug/mL | 97 |

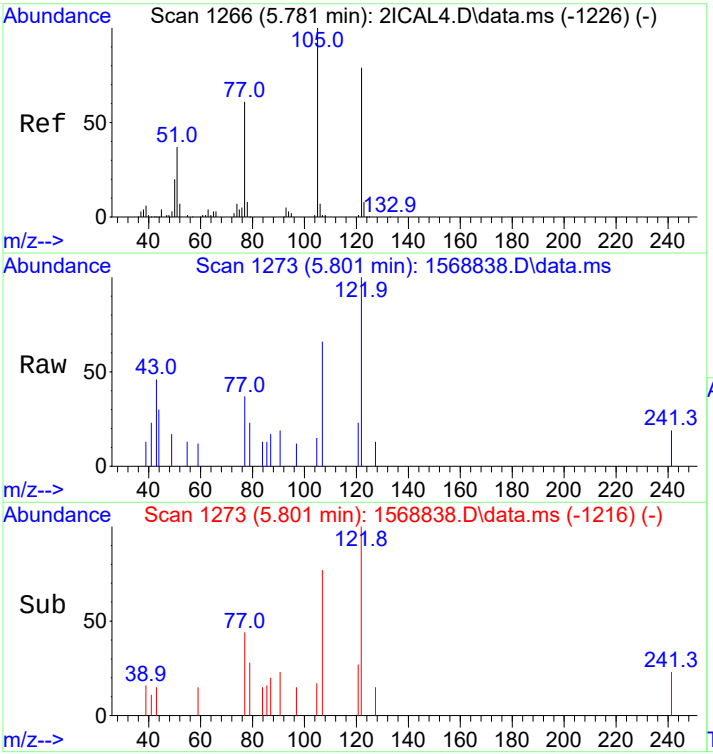
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568838.D Vial: 38
Acq On : 10 Apr 2025 23:07 Operator: ALD
Sample : 290730,1568838,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 23:23:55 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

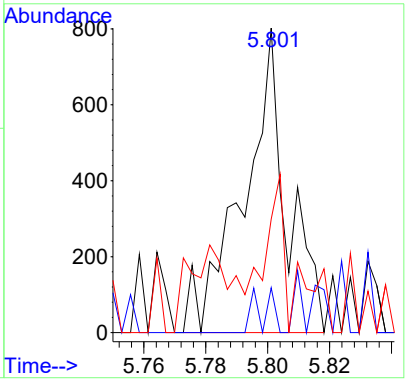


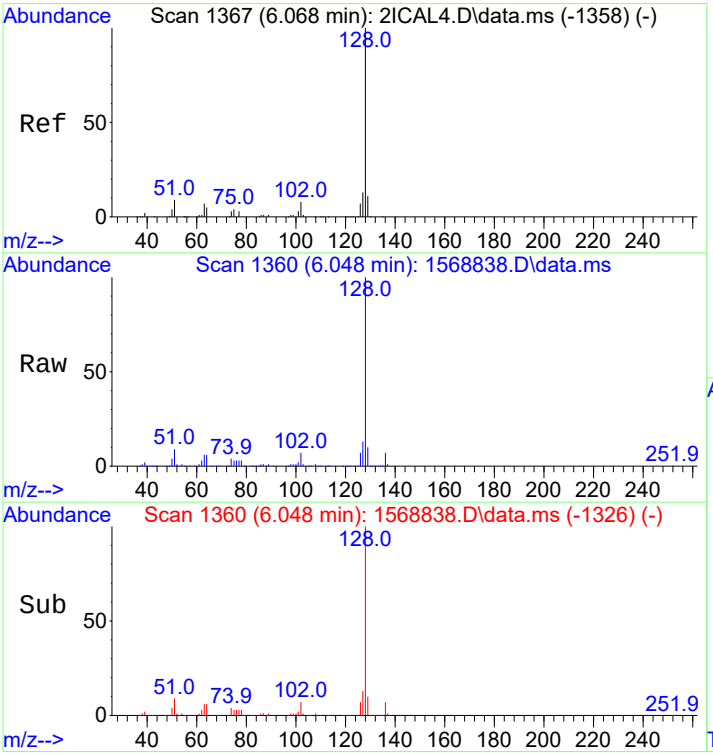



#30
Benzoic acid
Concen: 3.04 ug/mL
RT: 5.801 min Scan# 1273
Delta R.T. 0.031 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:122 Resp: 784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 14.7 | 96.0 | 156.0# |
| 77 | 16.3 | 46.6 | 106.6# |

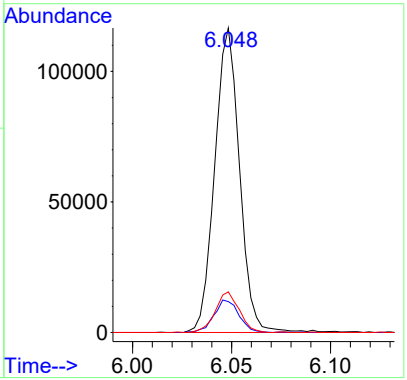


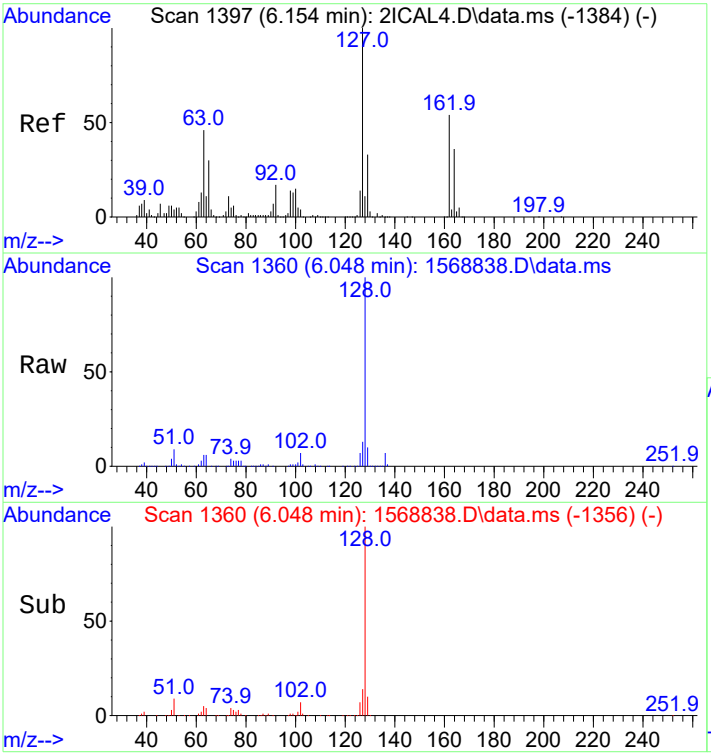




#31
Naphthalene
Concen: 2.47 ug/mL
RT: 6.048 min Scan# 1360
Delta R.T. -0.003 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:128 Resp: 101814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.1 | 0.0 | 41.0 |
| 127 | 13.4 | 0.0 | 43.3 |

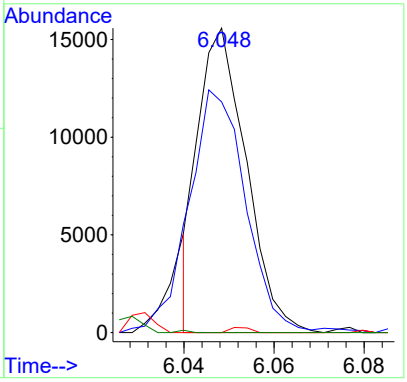


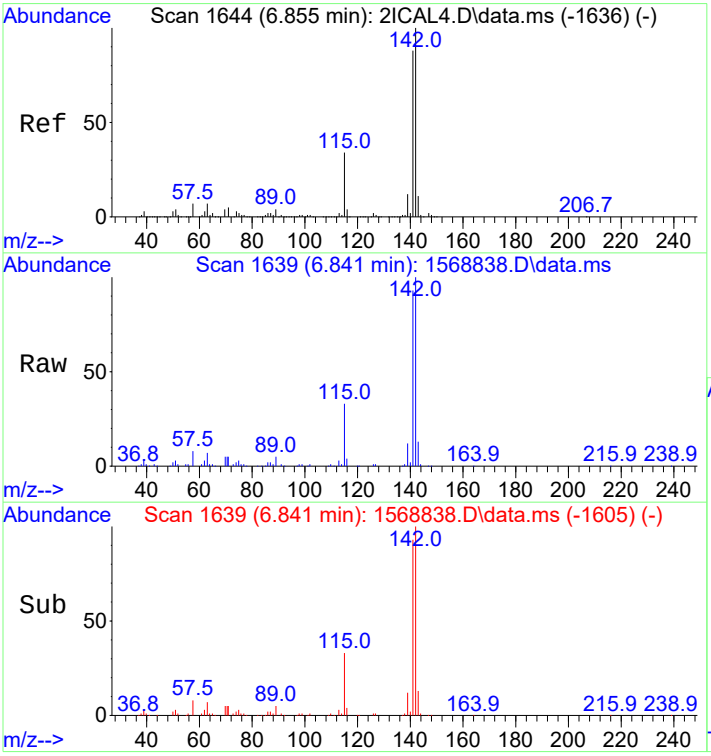



#32
4-Cl-aniline
Concen: 0.71 ug/mL
RT: 6.048 min Scan# 1360
Delta R.T. -0.088 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:127 Resp: 11511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 74.3 | 3.1 | 63.1# |
| 65 | 0.0 | 0.2 | 60.2# |
| 92 | 0.0 | 0.0 | 46.7 |

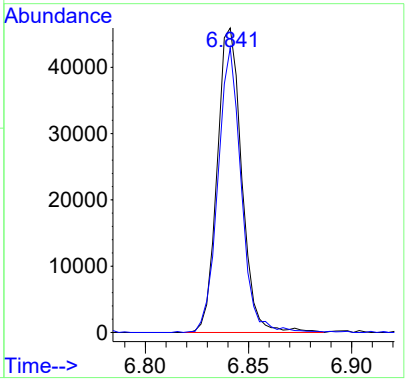


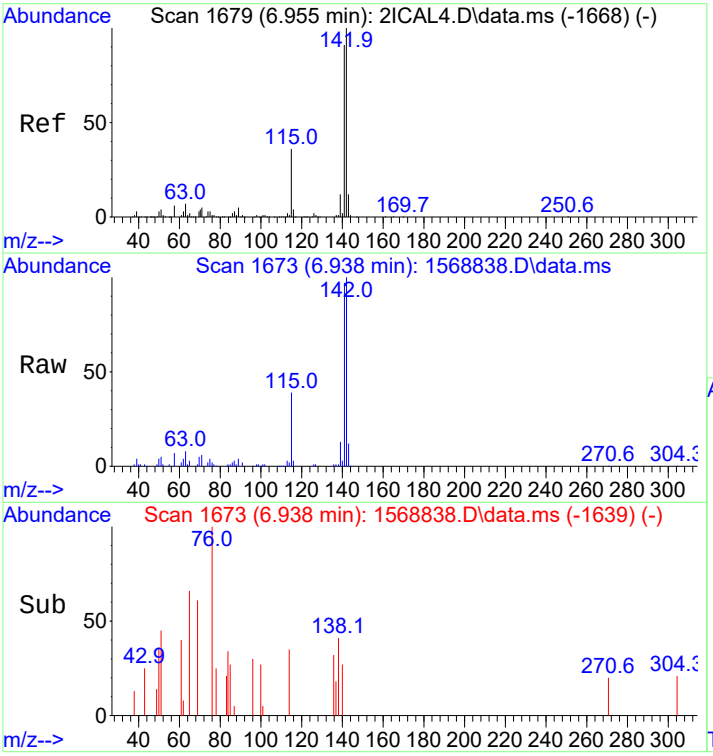




#37
2Methylnaphth
Concen: 1.53 ug/mL
RT: 6.841 min Scan# 1639
Delta R.T. -0.003 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:142 Resp: 38086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.5 | 58.0 | 118.0 |

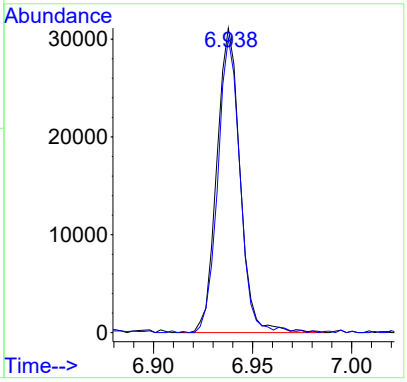


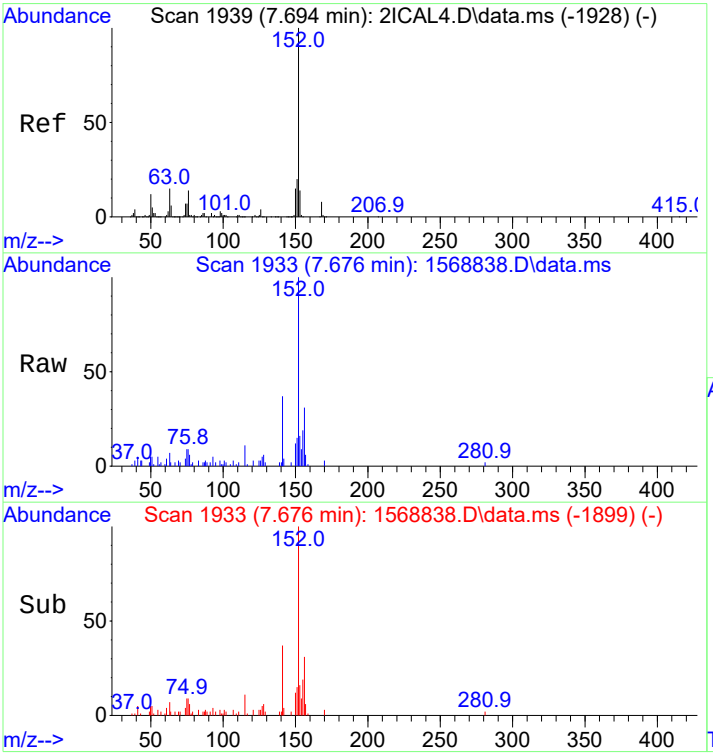



#38
1Methylnaphth
Concen: 0.99 ug/mL
RT: 6.938 min Scan# 1673
Delta R.T. -0.003 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:142 Resp: 25466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 96.3 | 60.7 | 120.7 |

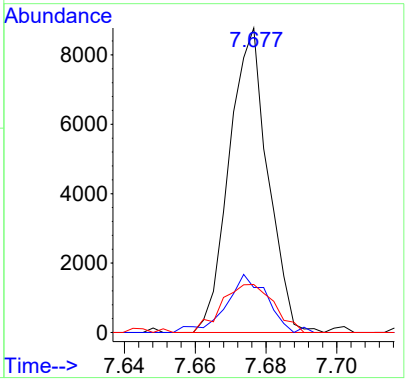


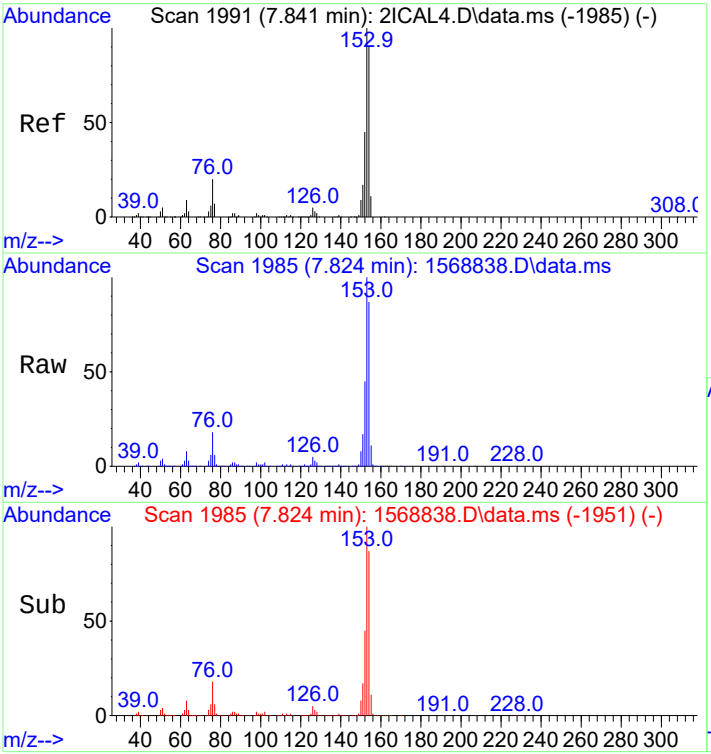




#47
Acnaphthylene
Concen: 0.16 ug/mL
RT: 7.676 min Scan# 1933
Delta R.T. -0.003 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:152 Resp: 6636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 14.7 | 0.0 | 50.3 |
| 153 | 15.8 | 0.0 | 44.4 |

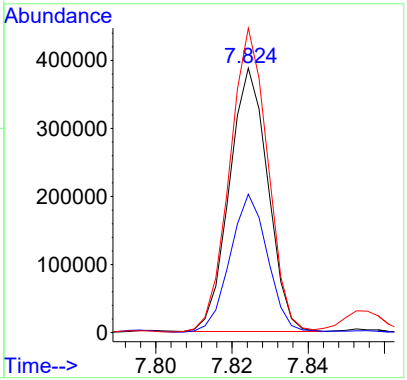


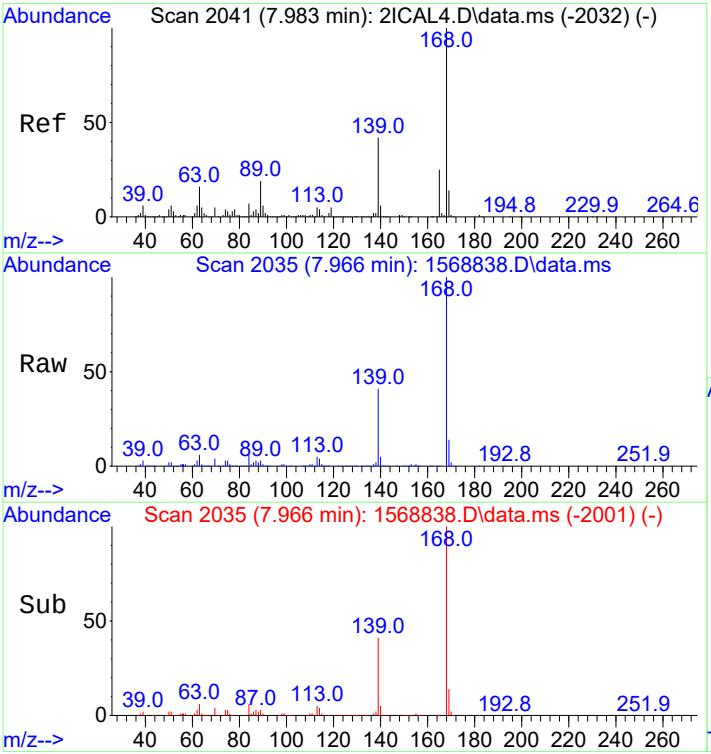



#50
Acenaphthene
Concen: 10.99 ug/mL
RT: 7.824 min Scan# 1985
Delta R.T. -0.003 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:154 Resp: 271736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 52.4 | 20.0 | 80.0 |
| 153 | 115.3 | 80.7 | 140.7 |

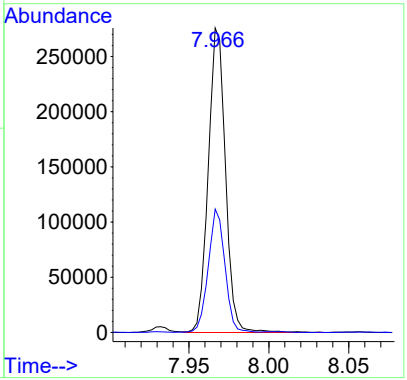


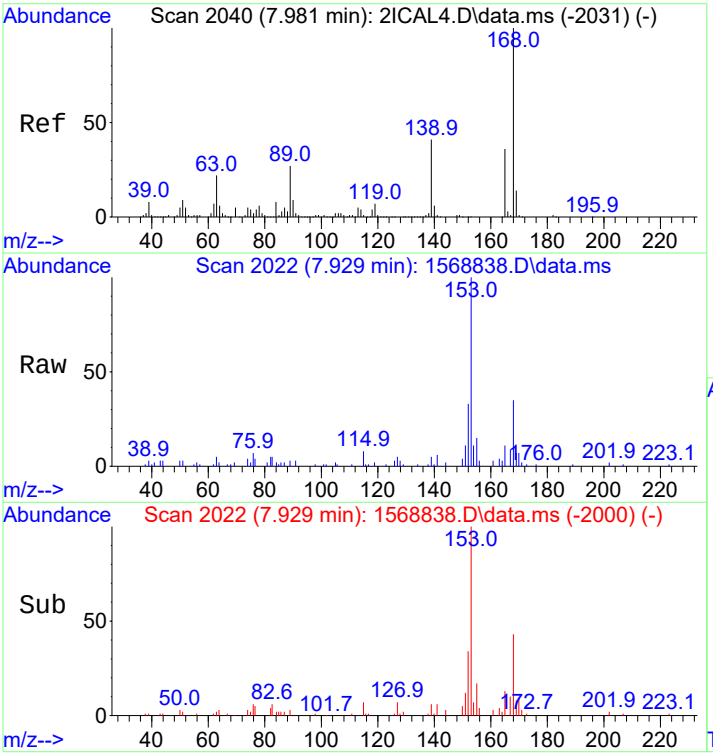




#53
Dibenzofuran
Concen: 5.79 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.003 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:168 Resp: 206752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.5 | 11.9 | 71.9 |

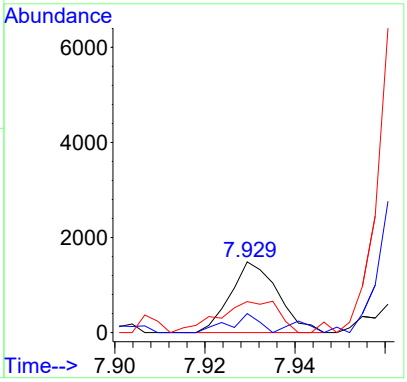


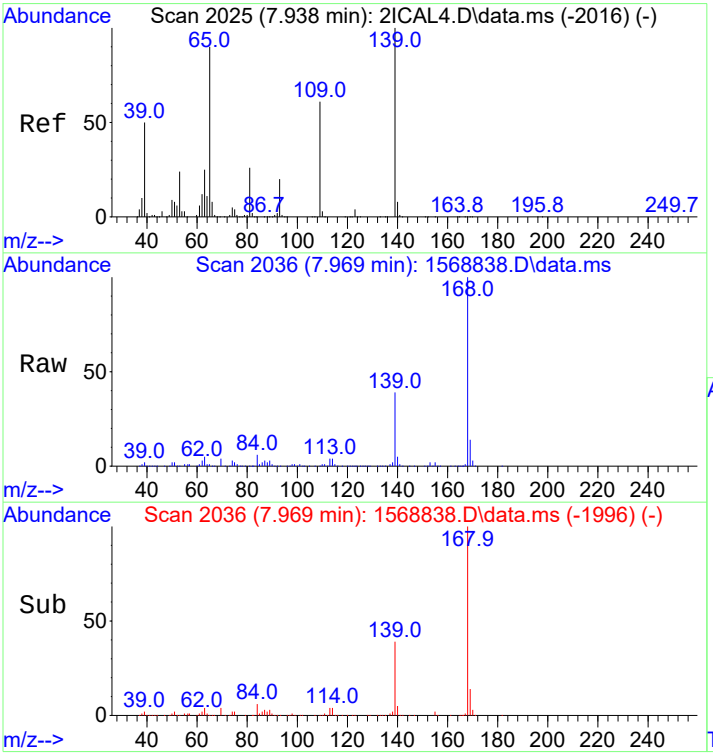



#54
24Dinitrotolu
Concen: 0.12 ug/mL
RT: 7.929 min Scan# 2022
Delta R.T. -0.037 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:165 Resp: 1084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 26.8 | 46.1 | 106.1# |
| 63 | 29.1 | 32.6 | 92.6# |

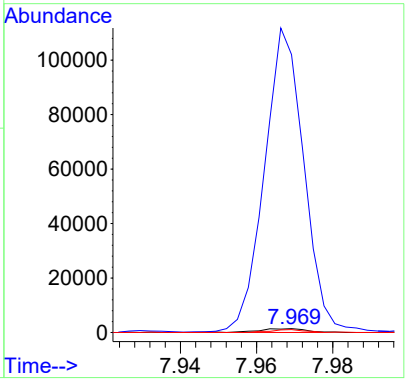


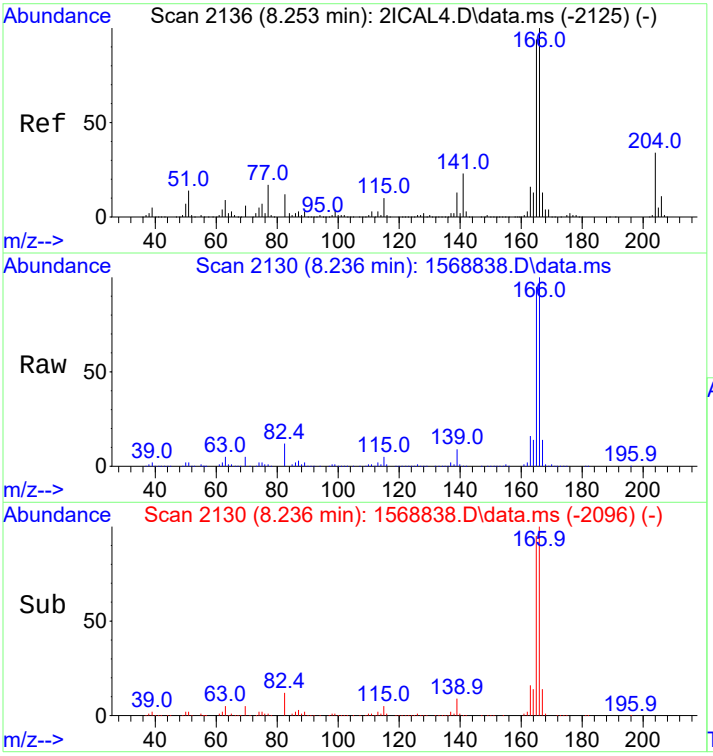




#55
4-Nitrophenol
Concen: 1.48 ug/mL
RT: 7.969 min Scan# 2036
Delta R.T. 0.048 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion: 65 Resp: 1212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 7209.1 | 80.5 | 140.5# |
| 109 | 75.5 | 37.6 | 97.6 |

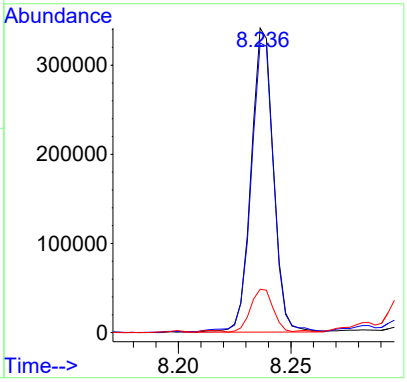


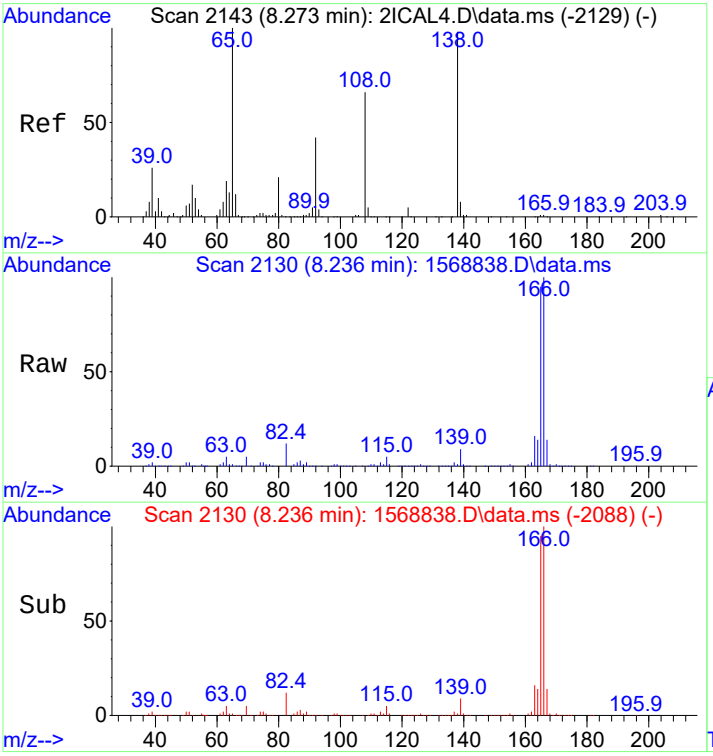



#58
Fluorene
Concen: 8.63 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:166 Resp: 235662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 94.9 | 63.6 | 123.6 |
| 167 | 13.9 | 0.0 | 43.3 |

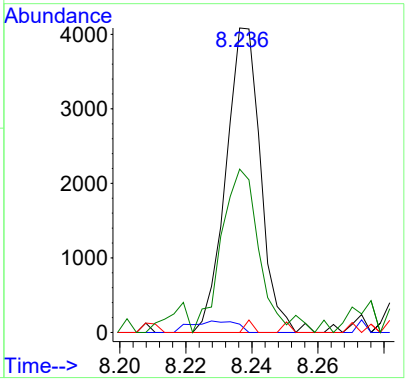


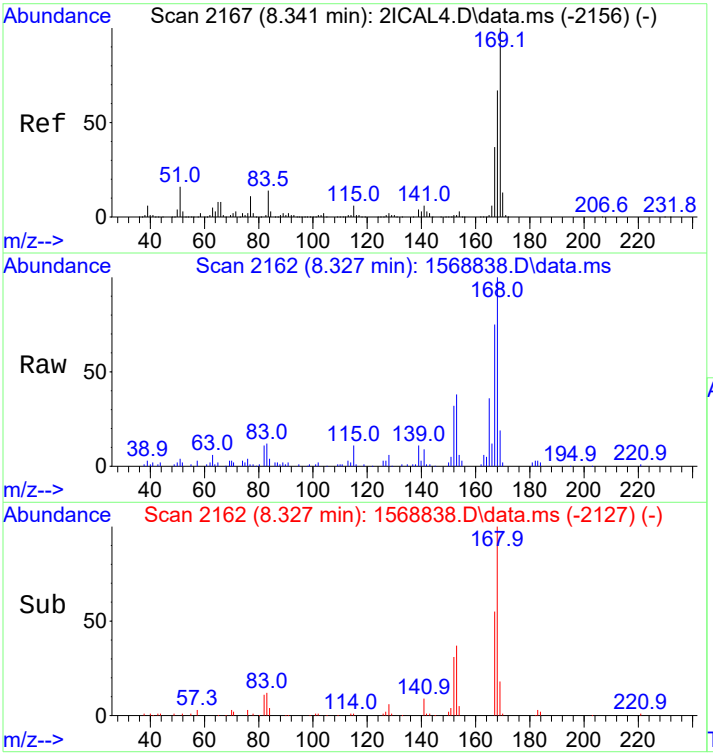




#61
4Nitroaniline
Concen: 0.78 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.020 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:138 Resp: 2977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 2.7 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 49.6 | 71.1 | 131.1# |

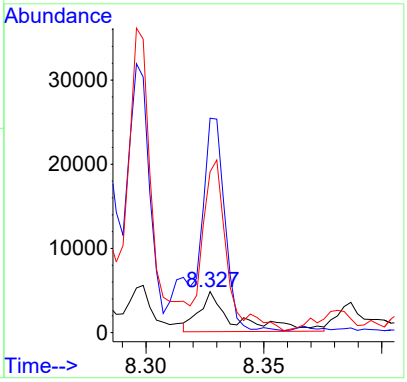


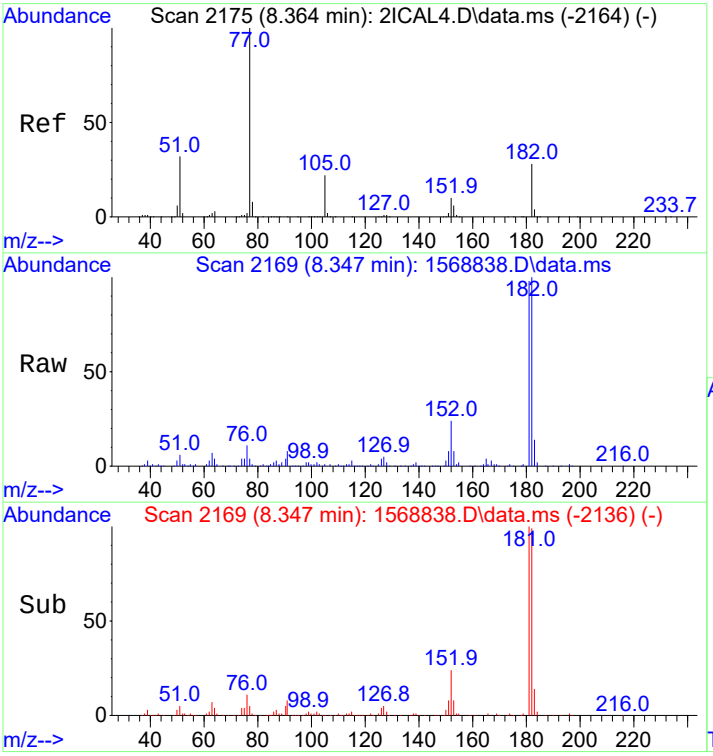



#65
Ntrsdiphlam&Diphlam
Concen: 0.26 ug/mL
RT: 8.327 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:169 Resp: 5029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 594.7 | 37.2 | 97.2# |
| 167 | 416.0 | 6.9 | 66.9# |

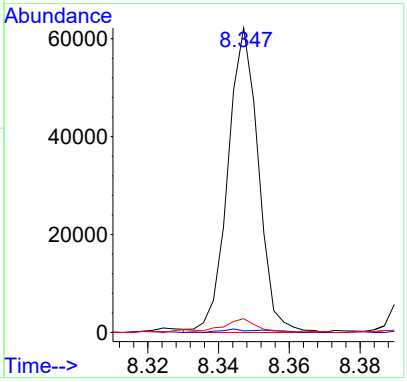


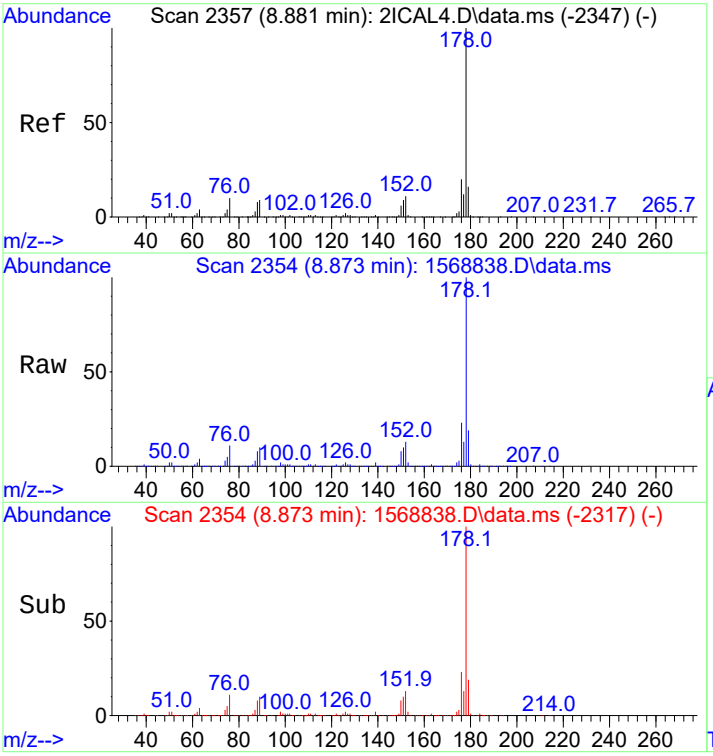




#66
Azobenz&12Diphlhyd
Concen: 5.37 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:182 Resp: 37280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.5 | 49.9 | 109.9# |
| 77 | 4.1 | 339.9 | 399.9# |

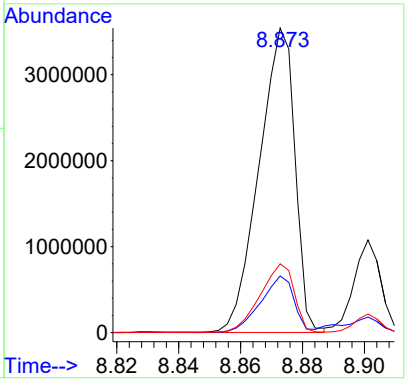


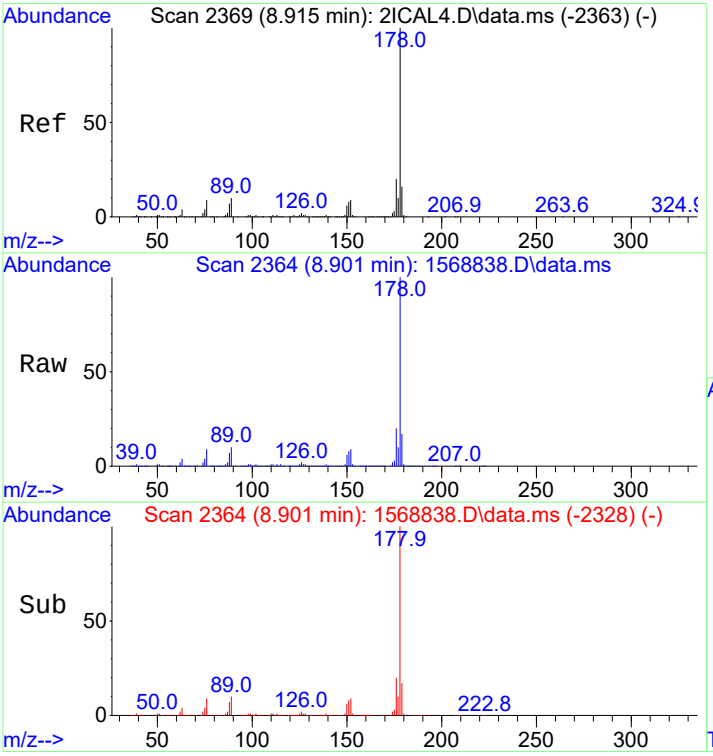



#70
Phenanthrene
Concen: 77.35 ug/mL
RT: 8.873 min Scan# 2354
Delta R.T. 0.006 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:178 Resp: 2846966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 18.6 | 0.0 | 45.9 |
| 176 | 22.6 | 0.0 | 50.4 |

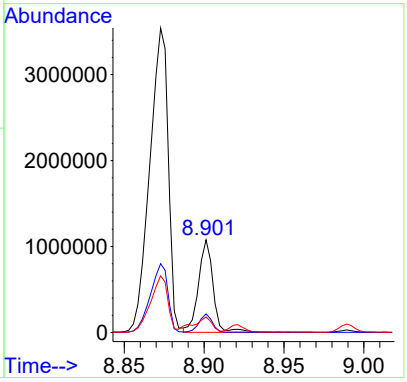


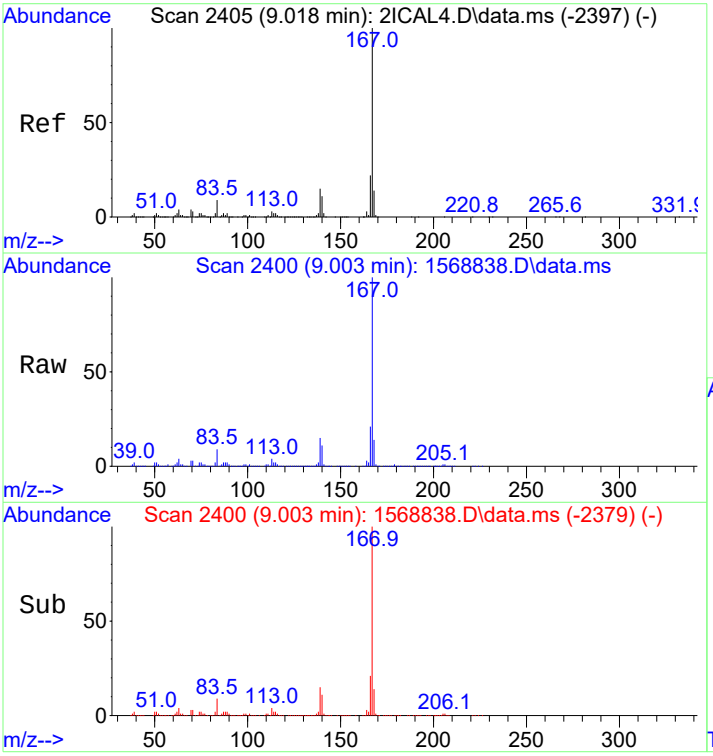




#71
Anthracene
Concen: 18.20 ug/mL
RT: 8.901 min Scan# 2364
Delta R.T. 0.003 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:178 Resp: 681558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 0.0 | 49.5 |
| 179 | 16.5 | 0.0 | 45.9 |

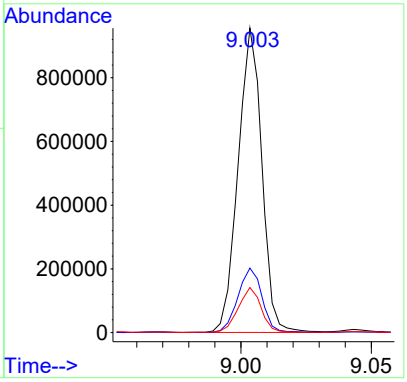


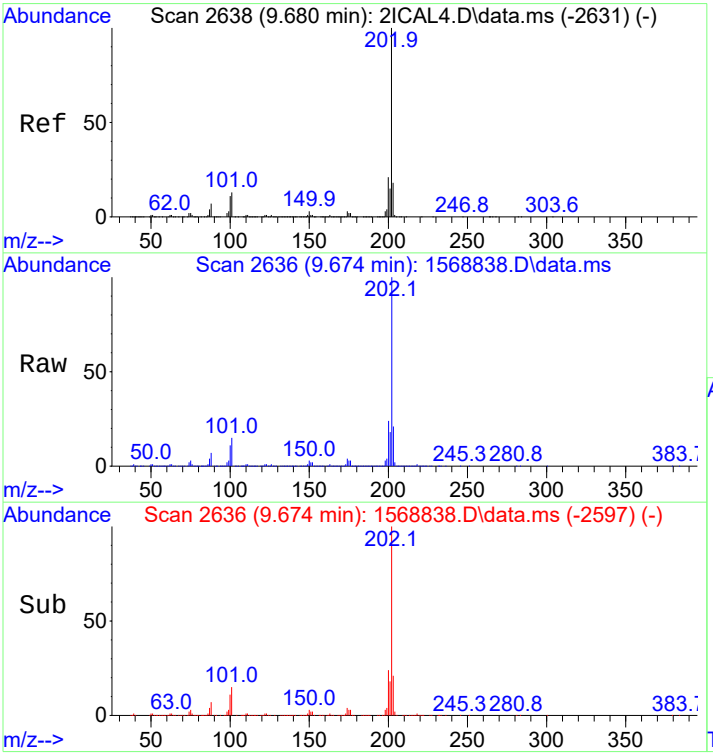



#72
Carbazole
Concen: 19.03 ug/mL
RT: 9.003 min Scan# 2400
Delta R.T. 0.000 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:167 Resp: 606762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.2 | 0.0 | 52.1 |
| 139 | 14.8 | 0.0 | 44.7 |

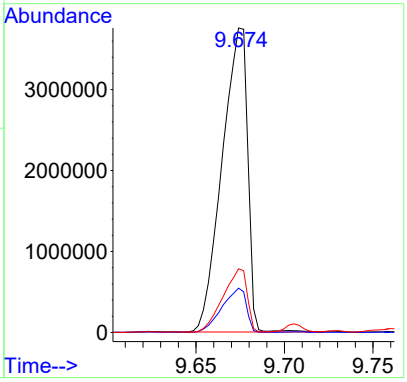


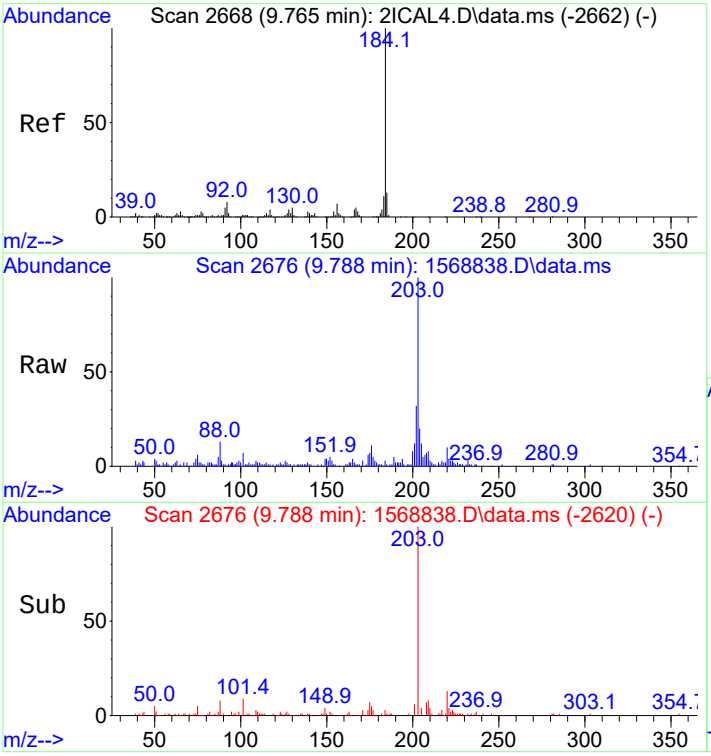




#74
Fluoranthene
Concen: 97.45 ug/mL
RT: 9.674 min Scan# 2636
Delta R.T. 0.011 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:202 Resp: 3787505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.5 | 0.0 | 43.0 |
| 203 | 20.8 | 0.0 | 48.2 |

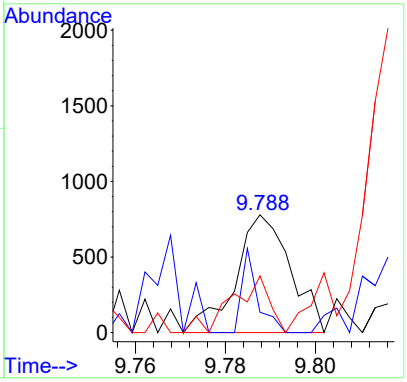


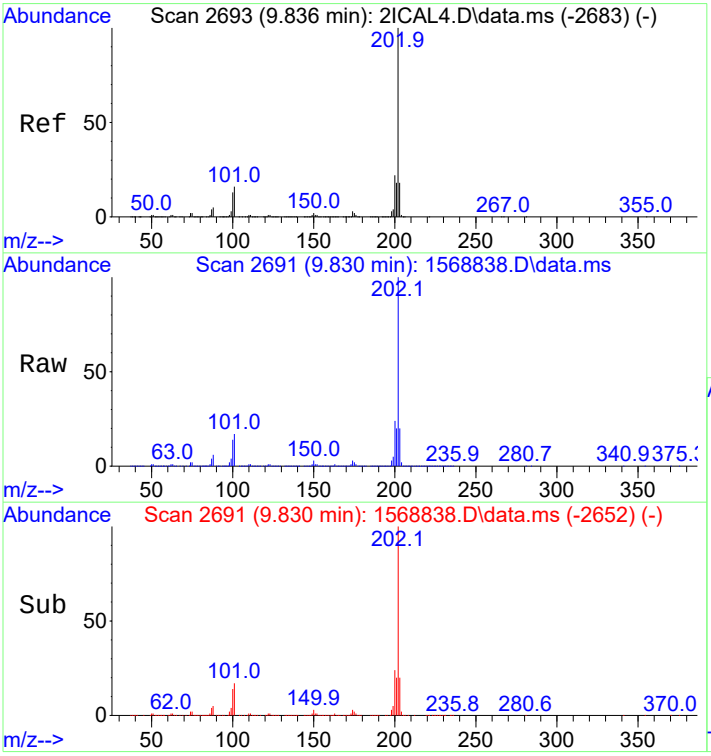



#76
Benzidine
Concen: Below Cal
RT: 9.788 min Scan# 2676
Delta R.T. 0.040 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:184 Resp: 663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 17.3 | 0.0 | 38.2 |
| 185 | 48.3 | 0.0 | 43.3# |

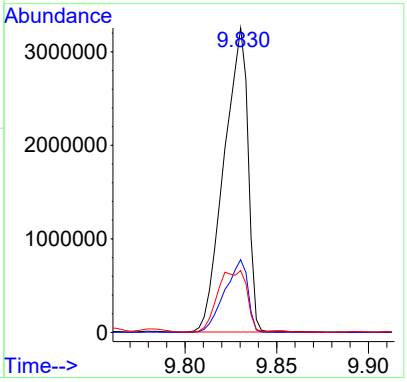


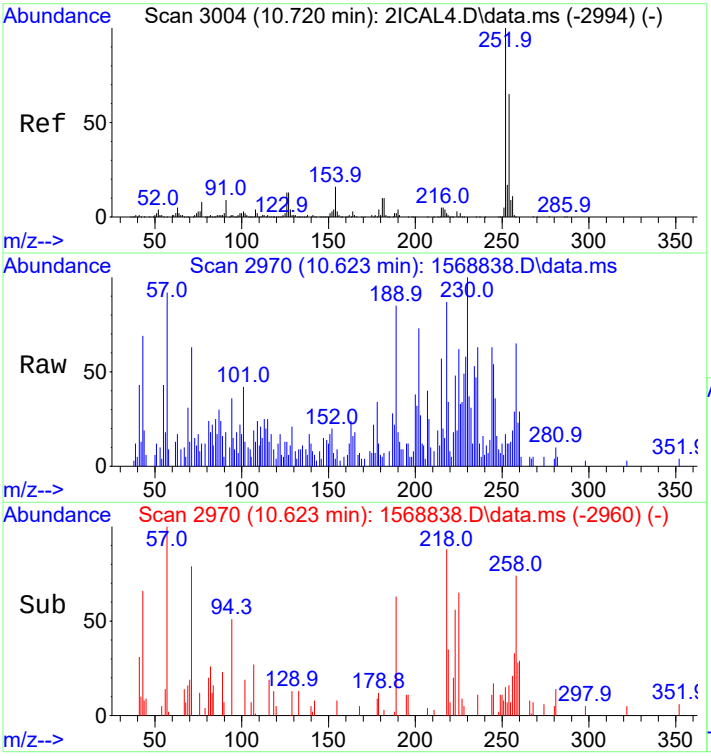




#77
Pyrene
Concen: 79.19 ug/mL
RT: 9.830 min Scan# 2691
Delta R.T. 0.011 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:202 Resp: 2952921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 23.9 | 0.0 | 52.2 |
| 203 | 20.3 | 0.0 | 48.2 |

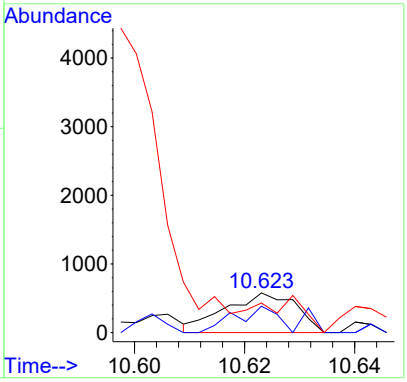


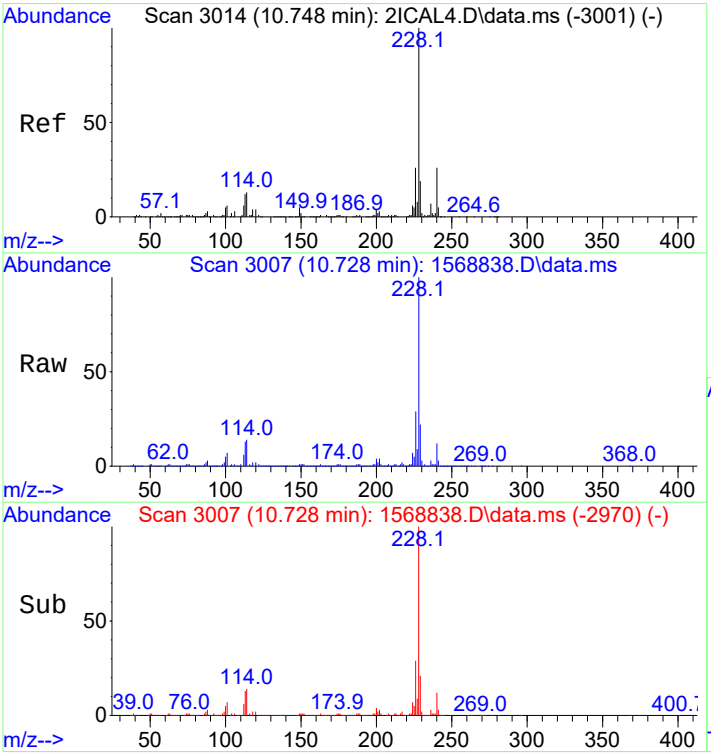



#81
33Diclbnzidin
Concen: Below Cal
RT: 10.623 min Scan# 2970
Delta R.T. -0.071 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:252 Resp: 512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 66.3 | 34.6 | 94.6 |
| 126 | 74.4 | 0.0 | 42.6# |

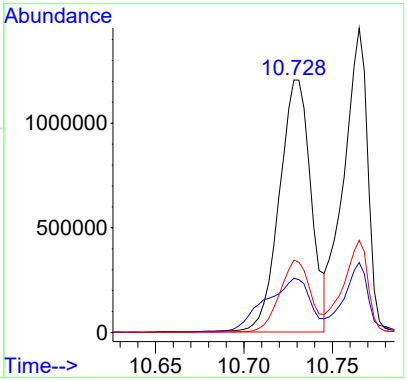


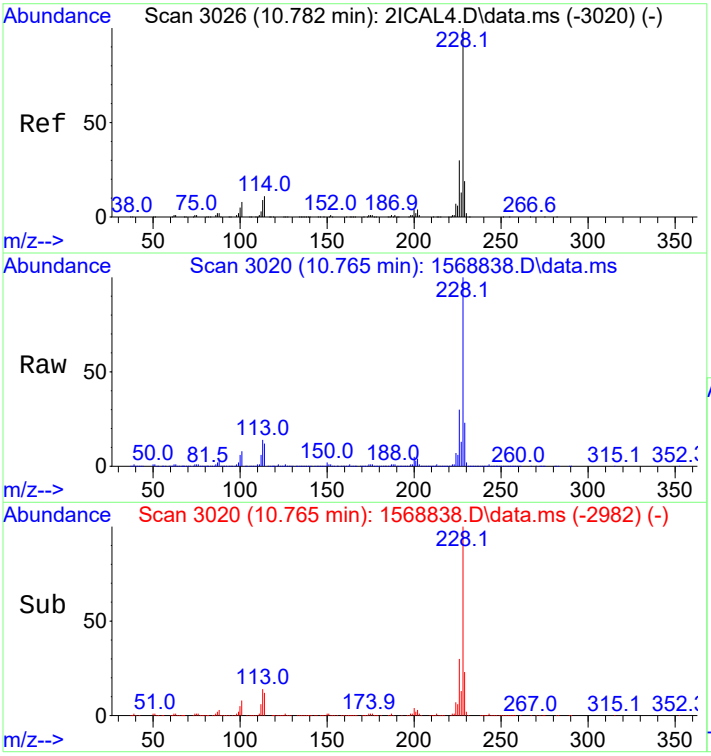




#82
B[a]anthracen
Concen: 42.77 ug/mL
RT: 10.728 min Scan# 3007
Delta R.T. 0.006 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:228 Resp: 1511662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 21.2 | 0.0 | 49.4 |
| 226 | 28.6 | 0.0 | 56.5 |

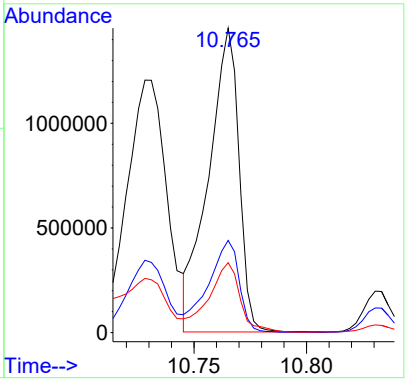


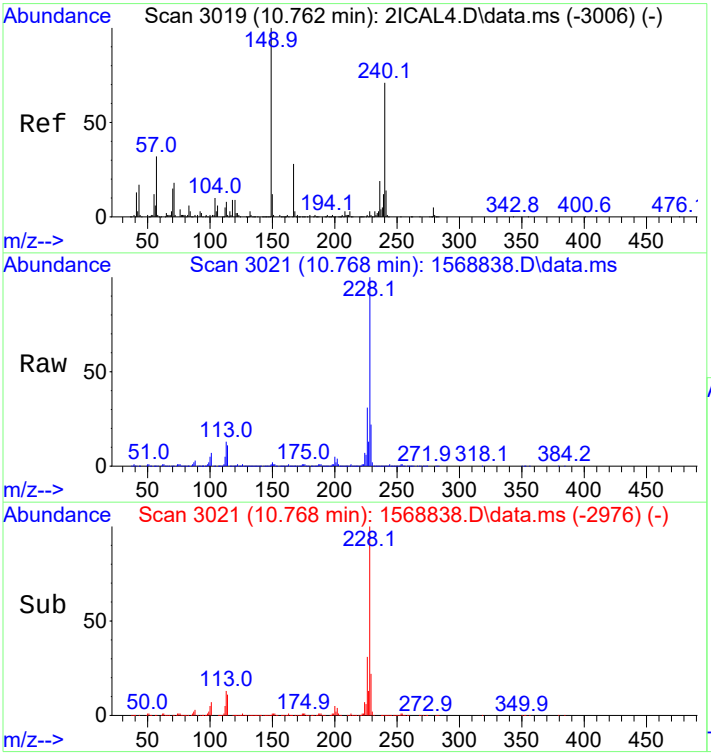



#83
Chrysene
Concen: 41.29 ug/mL
RT: 10.765 min Scan# 3020
Delta R.T. 0.009 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:228 Resp: 1368728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 0.0 | 59.9 |
| 229 | 22.8 | 0.0 | 49.5 |

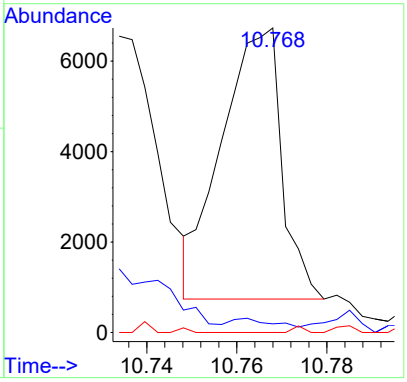


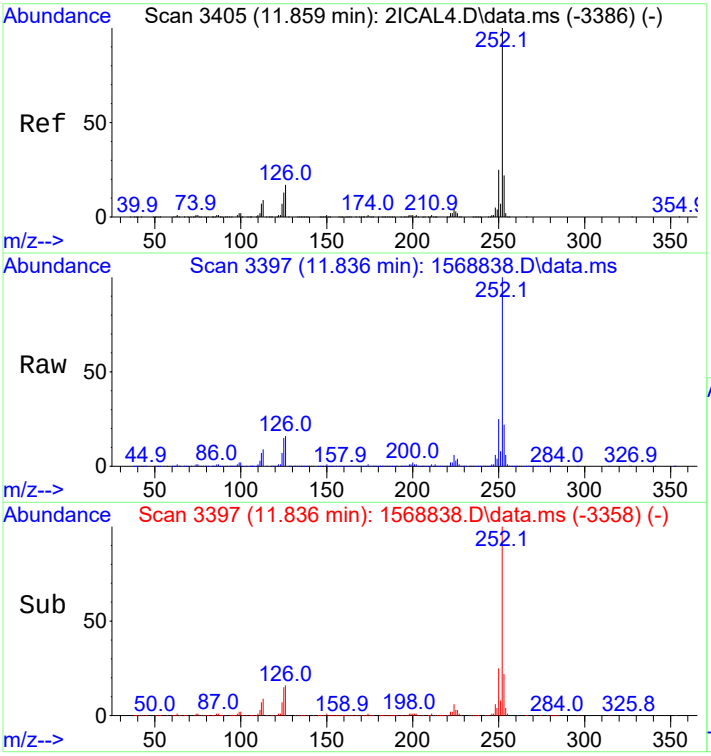




#84
bis2Ethlhxlph
Concen: 0.21 ug/mL
RT: 10.768 min Scan# 3021
Delta R.T. 0.028 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:149 Resp: 5534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 0.0 | 0.0 | 57.9 |
| 279 | 0.0 | 0.0 | 34.9 |

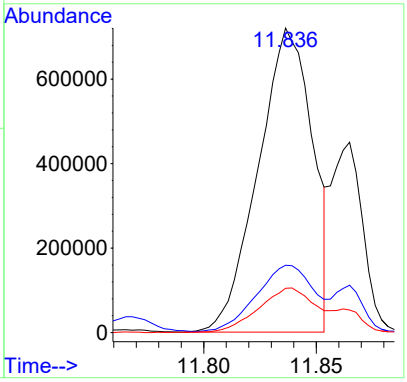


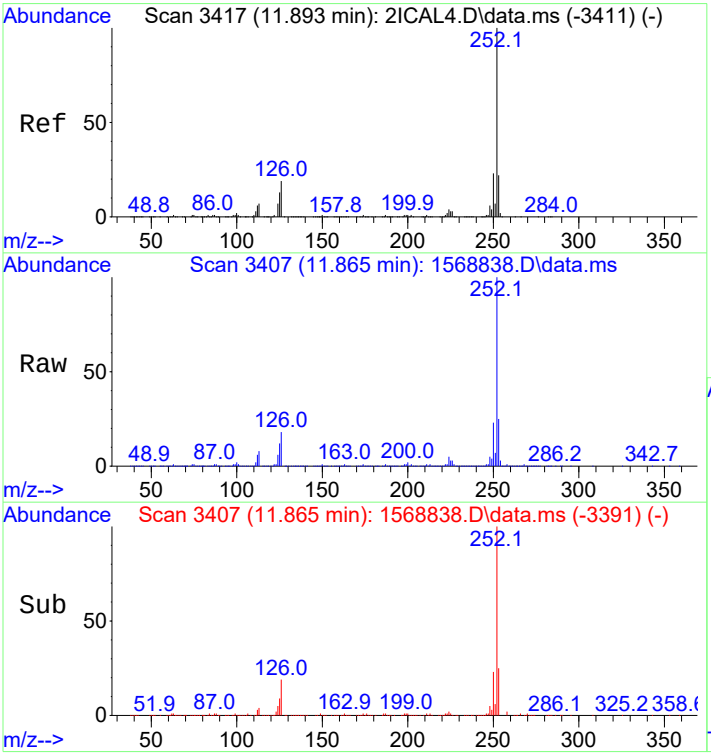



#87
B[b]fluoranth
Concen: 71.09 ug/mL
RT: 11.836 min Scan# 3397
Delta R.T. 0.011 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:252 Resp: 1208562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.6 | 0.0 | 52.3 |
| 125 | 14.5 | 0.0 | 43.2 |

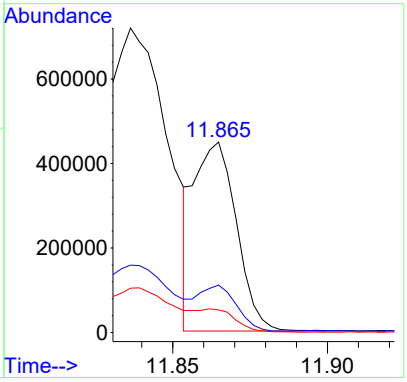


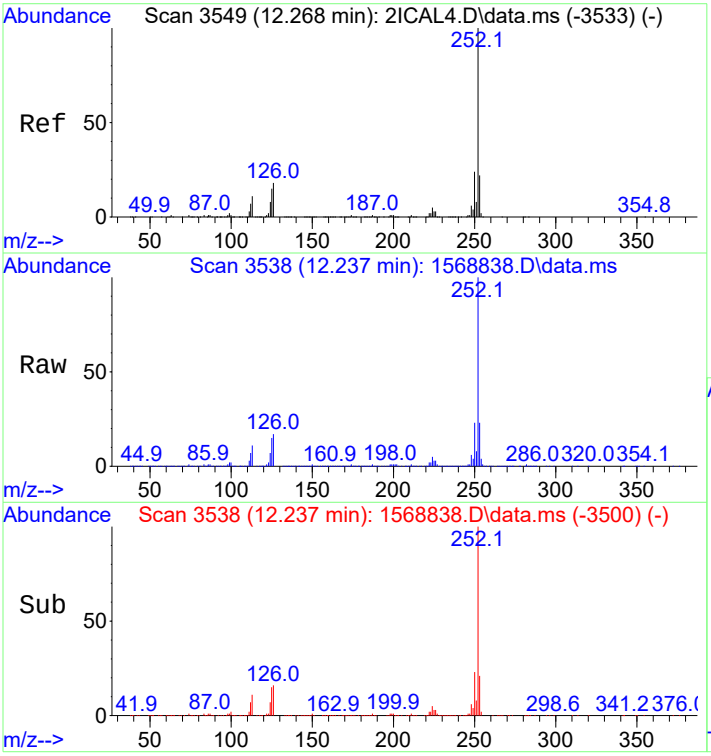




#88
B[k]fluoranth
Concen: 25.01 ug/mL
RT: 11.865 min Scan# 3407
Delta R.T. 0.006 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:252 Resp: 426003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 0.0 | 52.0 |
| 125 | 11.8 | 0.0 | 43.3 |

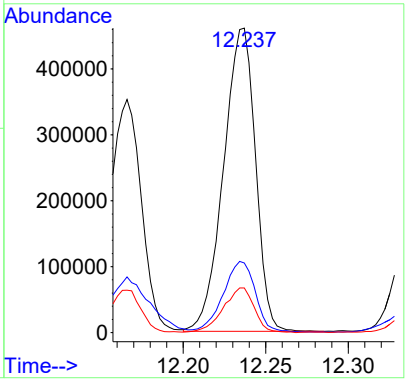


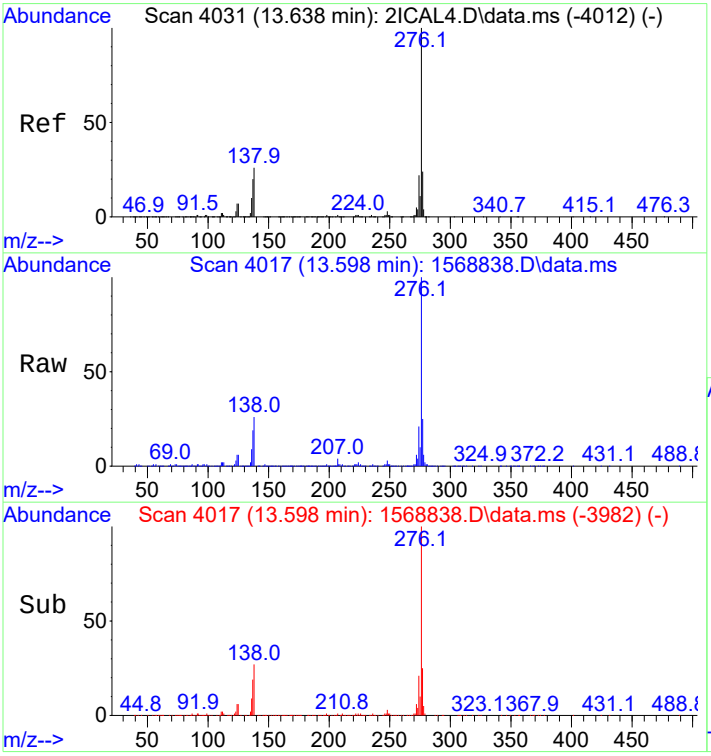



#89
Benz[a]pyrene
Concen: 39.60 ug/mL
RT: 12.237 min Scan# 3538
Delta R.T. 0.009 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:252 Resp: 619116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 0.0 | 52.3 |
| 125 | 14.6 | 0.0 | 45.1 |

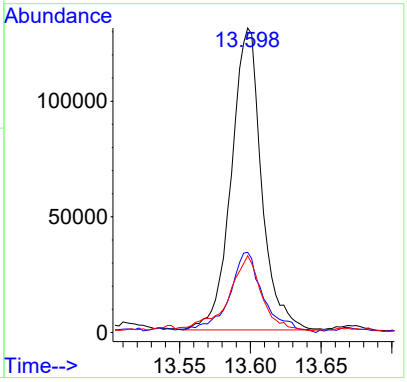


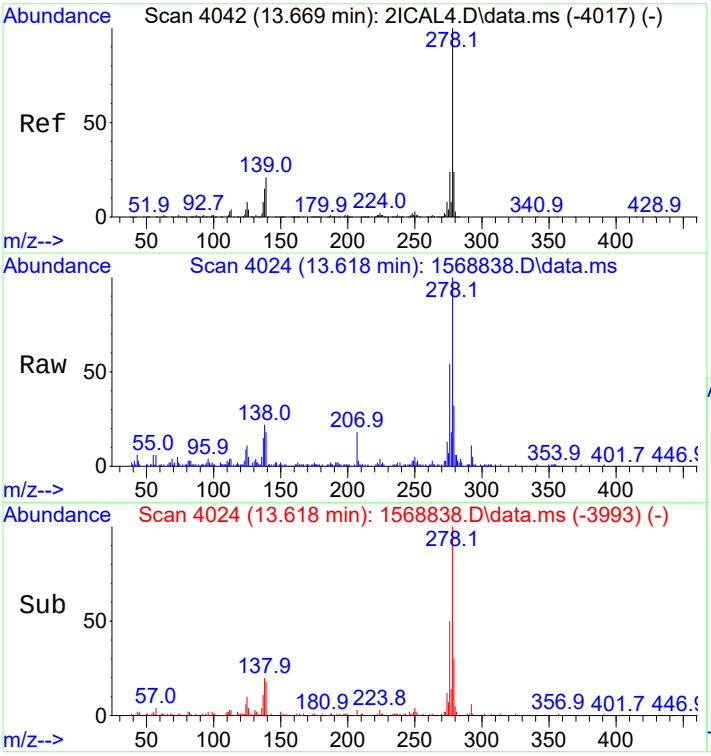




#90
Indeno-pyrene
Concen: 11.24 ug/mL
RT: 13.598 min Scan# 4017
Delta R.T. 0.000 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:276 Resp: 194341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.1 | 0.0 | 55.5 |
| 277 | 24.5 | 0.0 | 54.0 |

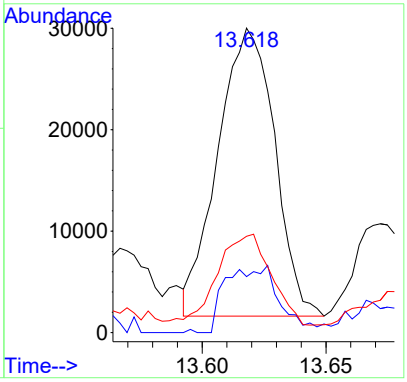


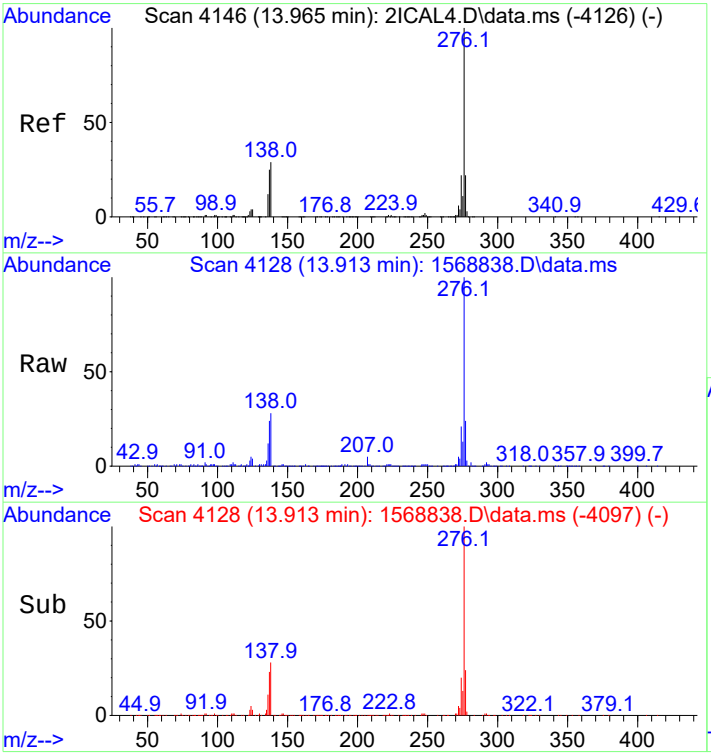



#91
Dib[ah]anthr
Concen: 3.20 ug/mL
RT: 13.618 min Scan# 4024
Delta R.T. -0.011 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:278 Resp: 45245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.5 | 0.0 | 50.9 |
| 279 | 30.7 | 0.0 | 54.4 |

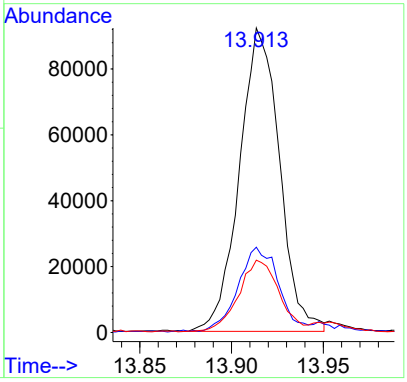



#92
B[ghi]perylen
Concen: 10.32 ug/mL
RT: 13.913 min Scan# 4128
Delta R.T. -0.011 min
Lab File: 1568838.D
Acq: 10 Apr 2025 23:07

Tgt Ion:276 Resp: 139796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.3 | 0.0 | 59.0 |
| 277 | 23.5 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568842.D Vial: 39
Acq On : 10 Apr 2025 23:30 Operator: ALD
Sample : 290730,1568842,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 23:47:13 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.332 | 152 | 181080 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.023 | 136 | 903492 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 515155 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.853 | 188 | 772870 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.742 | 240 | 605575 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.308 | 264 | 369453 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.096 | 112 | 26774 | 6.14 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 6.14% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 36318 | 6.93 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 6.93% | | | |
| 22) SURRNitrbenzened5 | 5.011 | 82 | 15937 | 6.47 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 6.47% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 45889 | 7.47 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 7.47% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 11226 | 8.14 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 8.14% | | | |
| 78) SURRTerphenyl-d14 | 9.918 | 244 | 54341 | 9.20 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 9.20% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Pyridine | 2.599 | 79 | 766 | 0.0611 | ug/mL | 77 |
| 8) Phenol | 3.929 | 94 | 1225 | 0.0912 | ug/mL | 73 |
| 20) 3&4Methylphenol | 4.838 | 107 | 1767 | 0.1456 | ug/mL | 93 |
| 30) Benzoic acid | 5.798 | 122 | 1472 | 3.1276 | ug/mL# | 3 |
| 31) Naphthalene | 6.048 | 128 | 148496 | 3.5638 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.048 | 127 | 16941 | 1.0419 | ug/mL# | 28 |
| 37) 2Methylnaphth | 6.841 | 142 | 47814 | 1.8986 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.938 | 142 | 31953 | 1.2268 | ug/mL | 95 |
| 47) Acnaphthylene | 7.674 | 152 | 9563 | 0.2294 | ug/mL | 96 |
| 50) Acenaphthene | 7.824 | 154 | 268450 | 10.8340 | ug/mL | 98 |
| 53) Dibenzofuran | 7.966 | 168 | 212828 | 5.9479 | ug/mL | 95 |
| 54) 24Dinitrotolu | 7.929 | 165 | 1279 | 0.1414 | ug/mL# | 51 |
| 55) 4-Nitrophenol | 7.966 | 65 | 1425 | 1.5224 | ug/mL# | 1 |
| 58) Fluorene | 8.236 | 166 | 256091 | 9.3621 | ug/mL | 97 |
| 61) 4Nitroaniline | 8.236 | 138 | 3131 | 0.8053 | ug/mL# | 38 |
| 65) Ntrsdiphlam&Diphlam | 8.356 | 169 | 952 | 0.0478 | ug/mL# | 24 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 41530 | 5.8447 | ug/mL# | 1 |
| 70) Phenanthrene | 8.873 | 178 | 2942950 | 78.1581 | ug/mL | 94 |
| 71) Anthracene | 8.901 | 178 | 750439 | 19.5887 | ug/mL | 94 |
| 72) Carbazole | 9.003 | 167 | 658519 | 20.1865 | ug/mL | 99 |
| 74) Fluoranthene | 9.674 | 202 | 4246499 | 106.8013 | ug/mL | 95 |
| 77) Pyrene | 9.833 | 202 | 3368307 | 87.5681 | ug/mL | 96 |
| 81) 33Diclbnzidin | 10.774 | 252 | 7169 | 0.6595 | ug/mL# | 1 |
| 82) B[a]anthracen | 10.734 | 228 | 1863222 | 51.1044 | ug/mL | 98 |
| 83) Chrysene | 10.768 | 228 | 1649017 | 48.2265 | ug/mL | 96 |
| 84) bis2Ethlhxlph | 10.734 | 149 | 11510 | 0.4148 | ug/mL | 68 |
| 87) B[b]fluoranth | 11.842 | 252 | 1596855 | 81.5947 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.868 | 252 | 516433 | 26.3378 | ug/mL | 97 |
| 89) Benz[a]pyrene | 12.240 | 252 | 820027 | 45.5623 | ug/mL | 97 |
| 90) Indeno-pyrene | 13.601 | 276 | 273747 | 13.7517 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.621 | 278 | 65788 | 4.0430 | ug/mL | 95 |
| 92) B[ghi]perylen | 13.919 | 276 | 198462 | 12.7250 | ug/mL | 97 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568842.D Vial: 39
Acq On : 10 Apr 2025 23:30 Operator: ALD
Sample : 290730,1568842,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 23:47:13 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

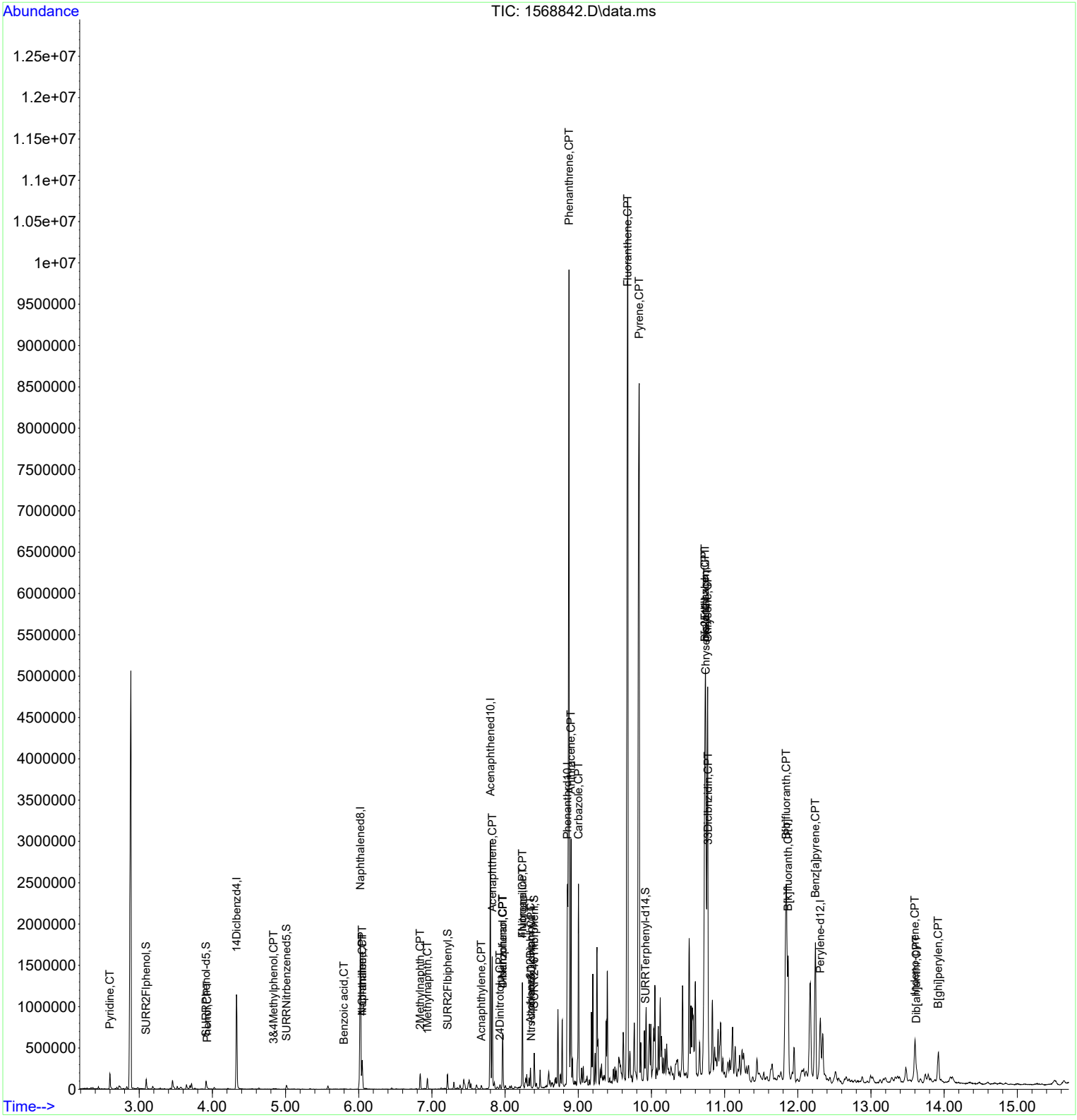
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

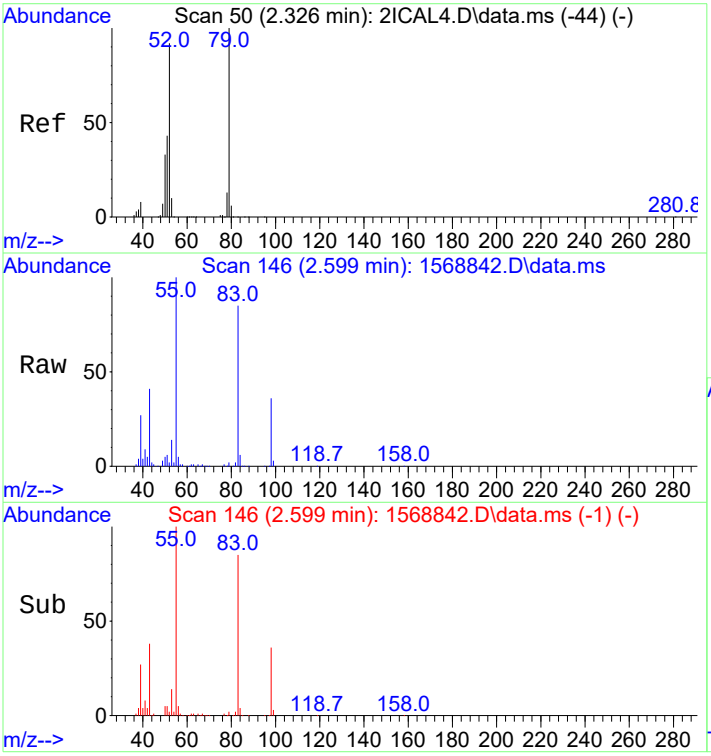
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568842.D Vial: 39
Acq On : 10 Apr 2025 23:30 Operator: ALD
Sample : 290730,1568842,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 23:47:13 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

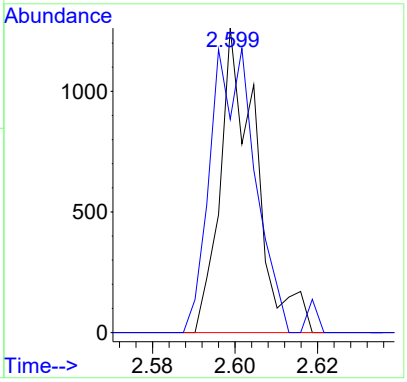


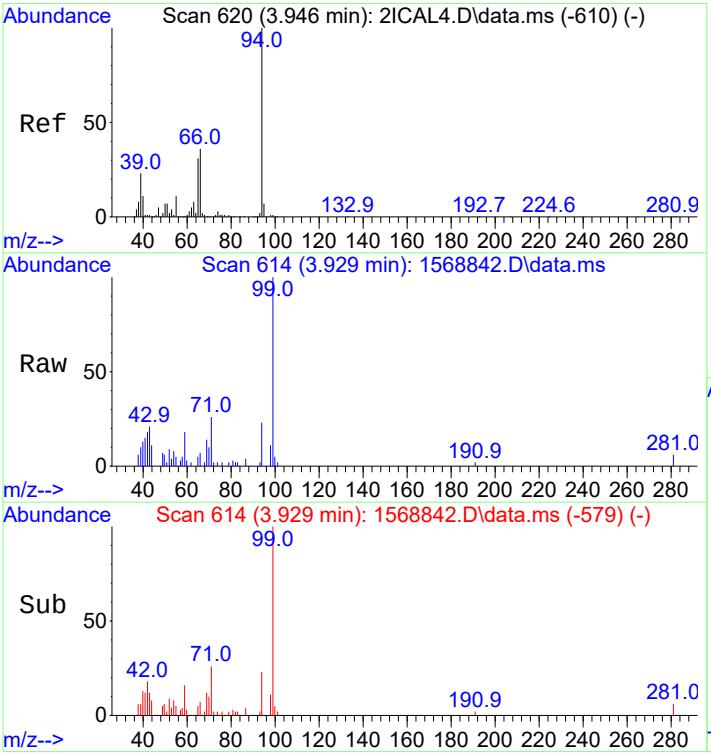



#3
Pyridine
Concen: 0.06 ug/mL
RT: 2.599 min Scan# 146
Delta R.T. 0.290 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion: 79 Resp: 766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 70.0 | 62.5 | 122.5 |

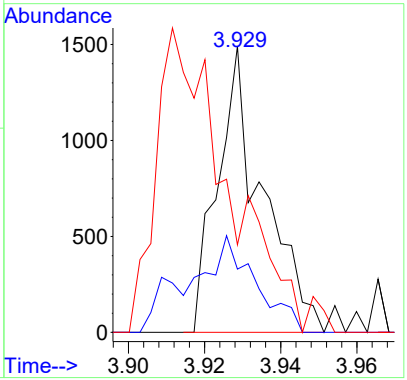


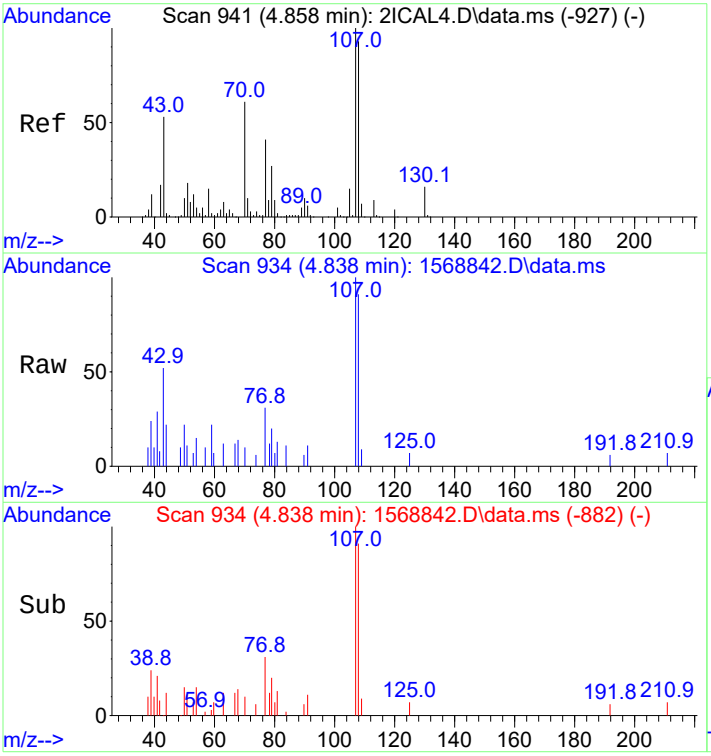




#8
Phenol
Concen: 0.09 ug/mL
RT: 3.929 min Scan# 614
Delta R.T. 0.000 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion: 94 Resp: 1225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 22.1 | 0.7 | 60.7 |
| 66 | 14.9 | 6.4 | 66.4 |

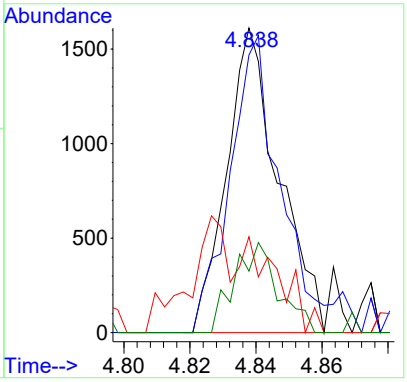


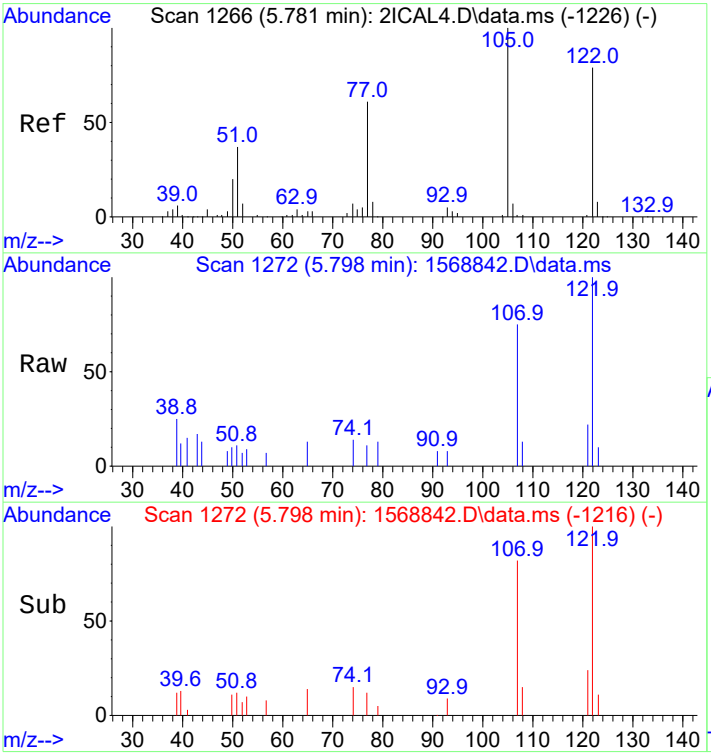



#20
3&4Methylphenol
Concen: 0.15 ug/mL
RT: 4.838 min Scan# 934
Delta R.T. -0.003 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:107 Resp: 1767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 91.2 | 63.3 | 123.3 |
| 77 | 31.5 | 11.4 | 71.4 |
| 79 | 20.2 | 0.0 | 56.9 |

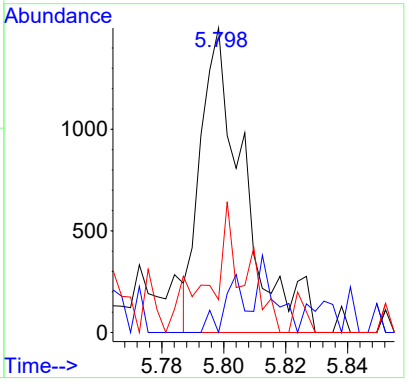


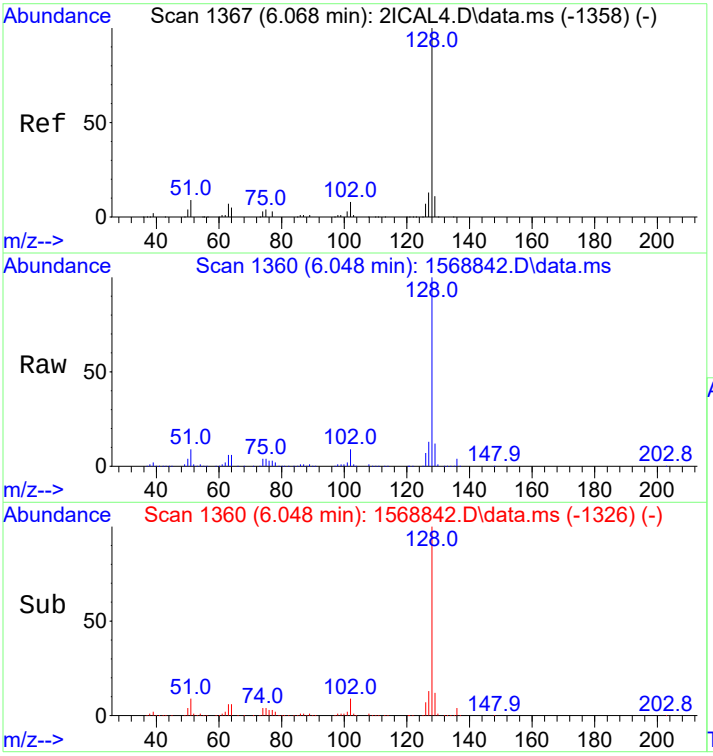




#30
Benzoic acid
Concen: 3.13 ug/mL
RT: 5.798 min Scan# 1272
Delta R.T. 0.028 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:122 Resp: 1472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 0.0 | 96.0 | 156.0# |
| 77 | 10.7 | 46.6 | 106.6# |

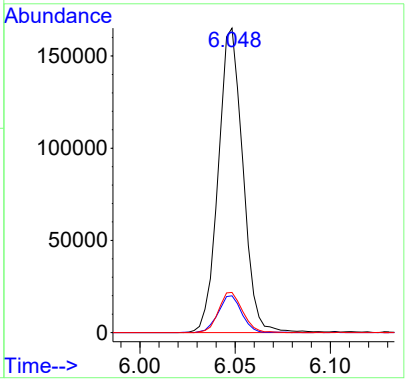


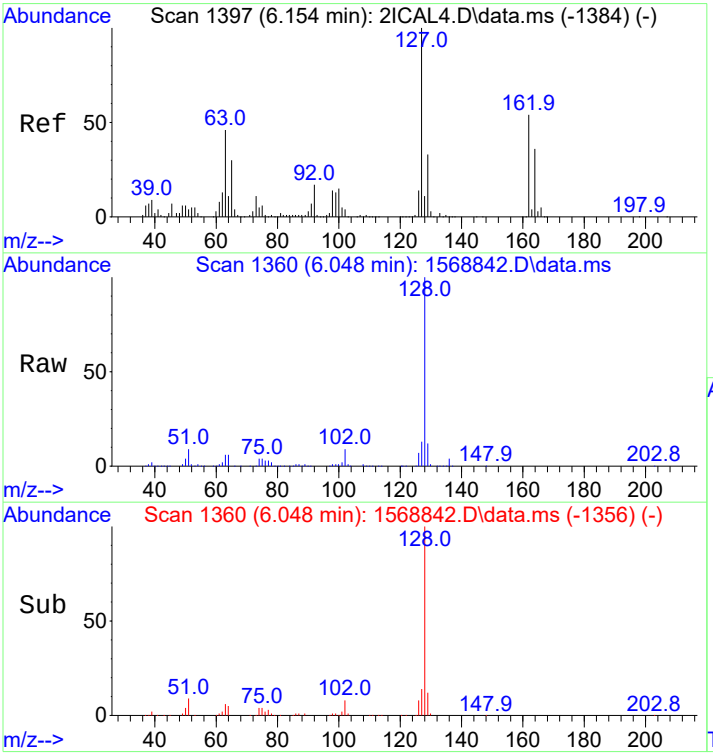



#31
Naphthalene
Concen: 3.56 ug/mL
RT: 6.048 min Scan# 1360
Delta R.T. -0.003 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:128 Resp: 148496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.1 | 0.0 | 41.0 |
| 127 | 13.2 | 0.0 | 43.3 |

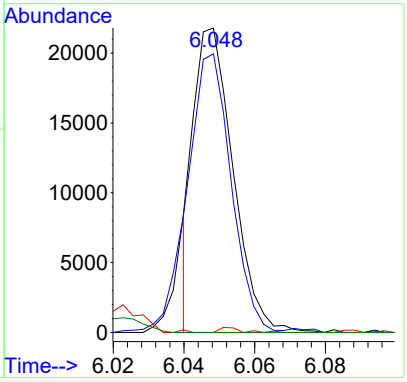


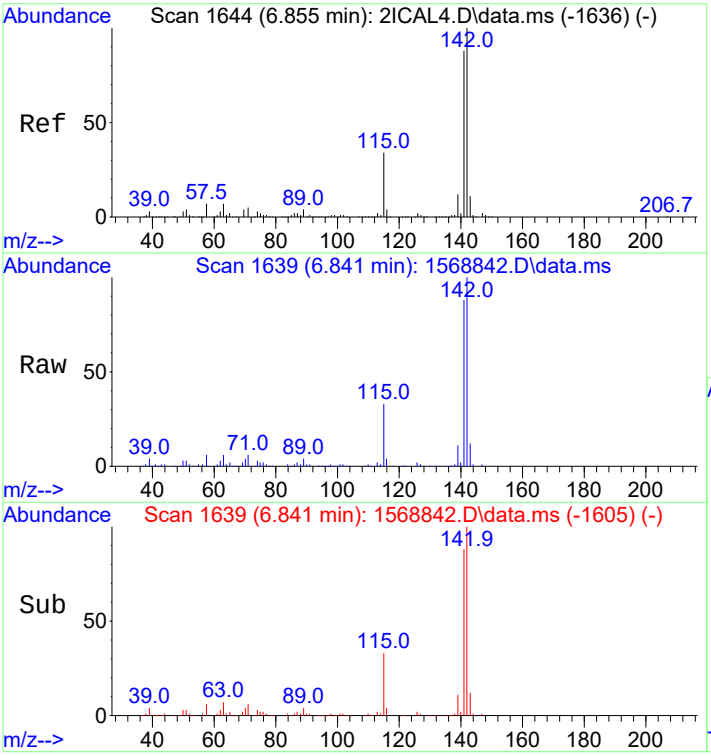




#32
4-Cl-aniline
Concen: 1.04 ug/mL
RT: 6.048 min Scan# 1360
Delta R.T. -0.088 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:127 Resp: 16941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 91.5 | 3.1 | 63.1# |
| 65 | 0.0 | 0.2 | 60.2# |
| 92 | 0.0 | 0.0 | 46.7 |

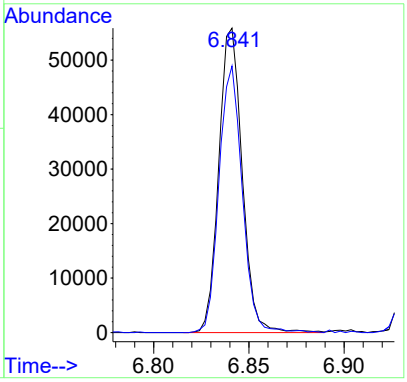


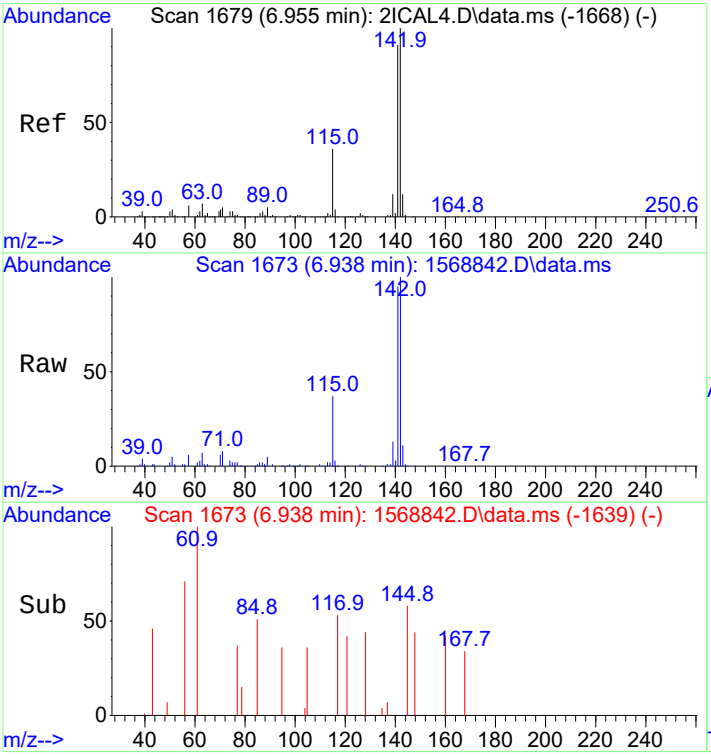



#37
2Methylnaphth
Concen: 1.90 ug/mL
RT: 6.841 min Scan# 1639
Delta R.T. -0.003 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:142 Resp: 47814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.6 | 58.0 | 118.0 |

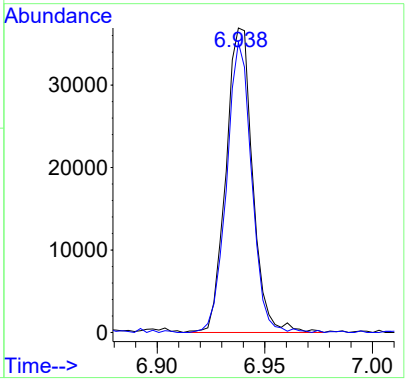


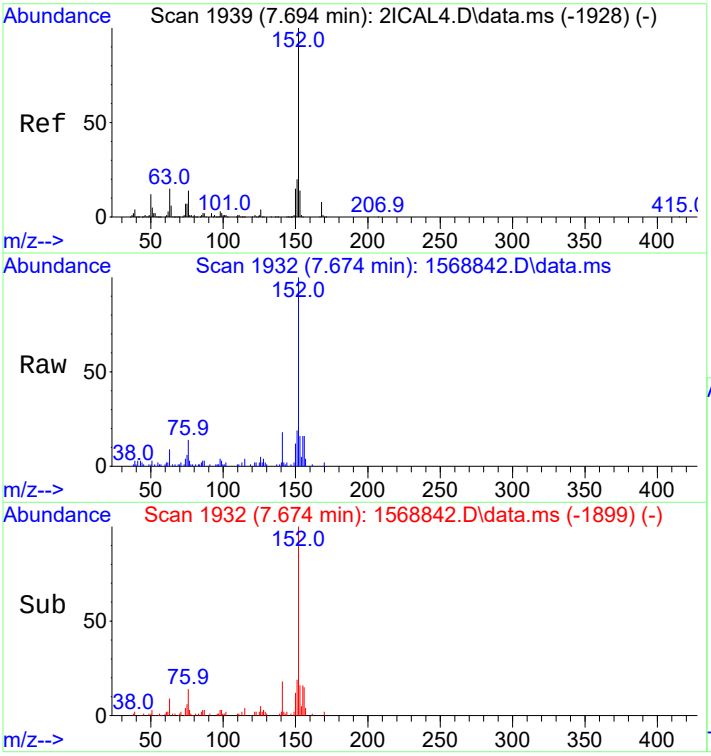




#38
1Methylnaphth
Concen: 1.23 ug/mL
RT: 6.938 min Scan# 1673
Delta R.T. -0.003 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:142 Resp: 31953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 95.3 | 60.7 | 120.7 |

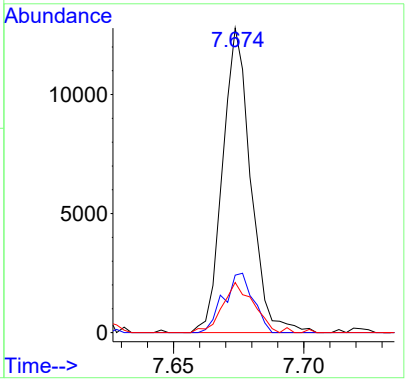


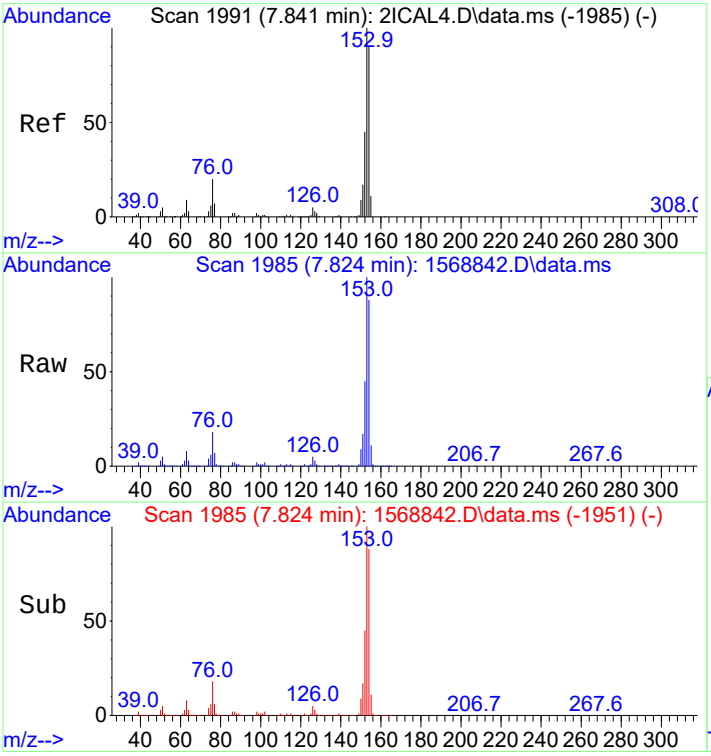



#47
Acnaphthylene
Concen: 0.23 ug/mL
RT: 7.674 min Scan# 1932
Delta R.T. -0.006 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:152 Resp: 9563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 18.9 | 0.0 | 50.3 |
| 153 | 16.5 | 0.0 | 44.4 |

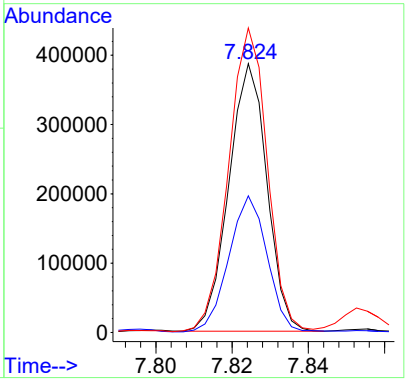


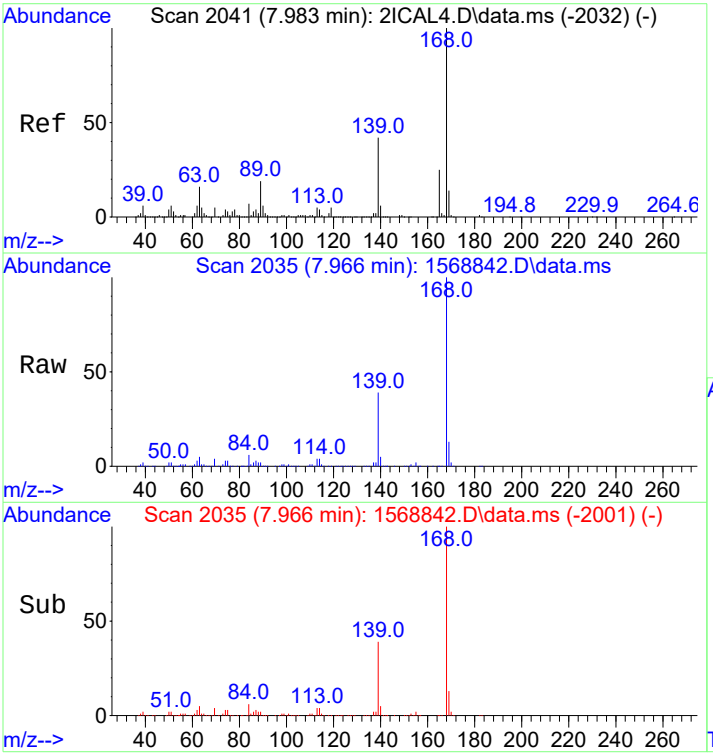




#50
Acenaphthene
Concen: 10.83 ug/mL
RT: 7.824 min Scan# 1985
Delta R.T. -0.003 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:154 Resp: 268450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 50.9 | 20.0 | 80.0 |
| 153 | 113.1 | 80.7 | 140.7 |

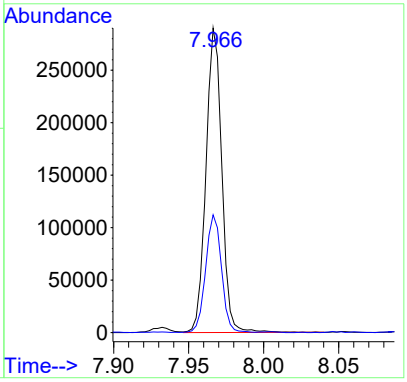


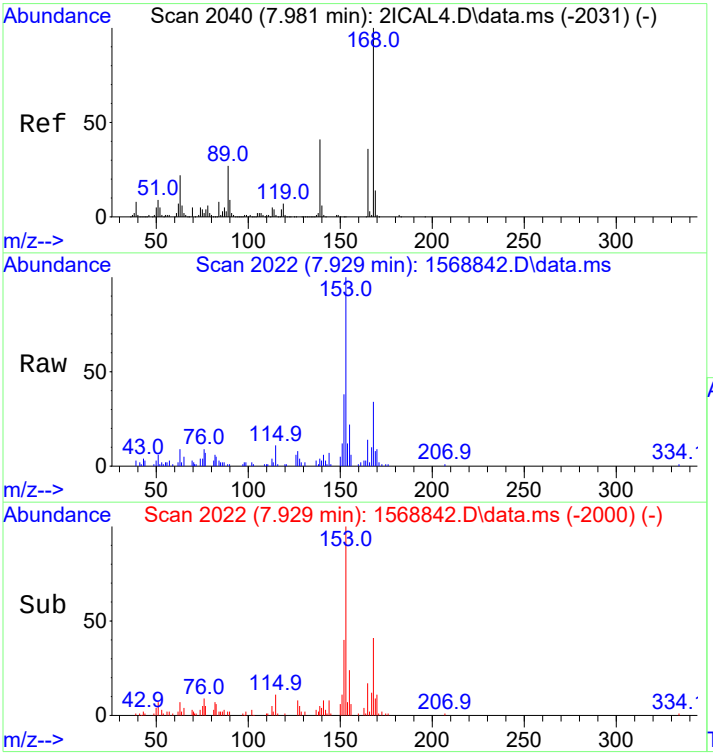



#53
Dibenzofuran
Concen: 5.95 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.003 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:168 Resp: 212828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 38.7 | 11.9 | 71.9 |

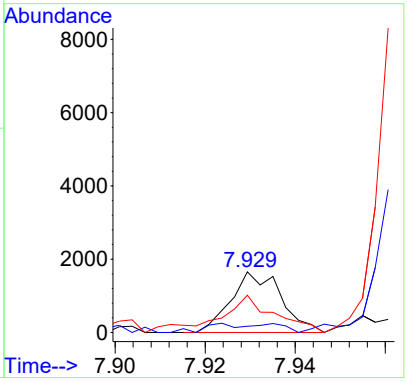


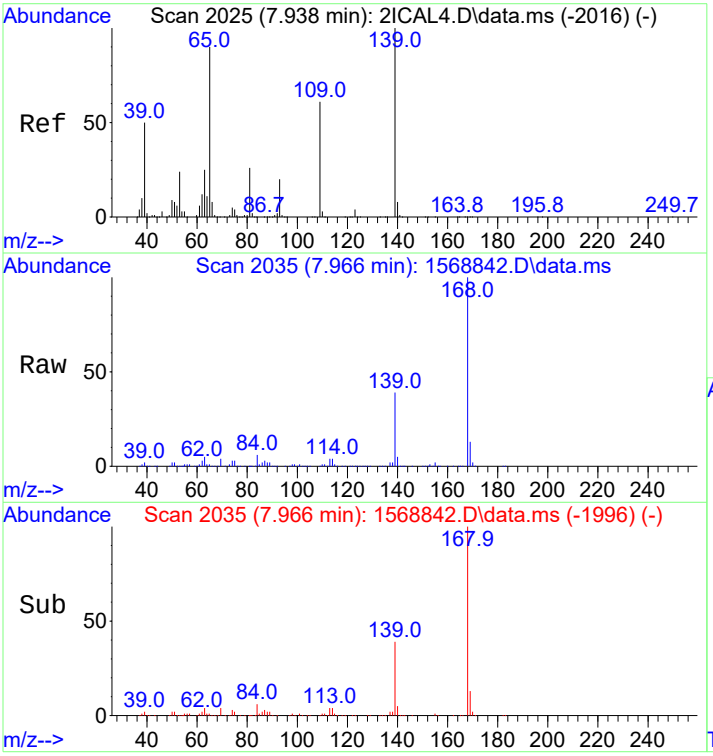




#54
24Dinitrotolu
Concen: 0.14 ug/mL
RT: 7.929 min Scan# 2022
Delta R.T. -0.037 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:165 Resp: 1279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 4.0 | 46.1 | 106.1# |
| 63 | 67.7 | 32.6 | 92.6 |

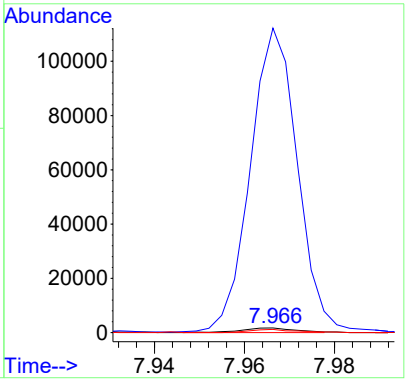


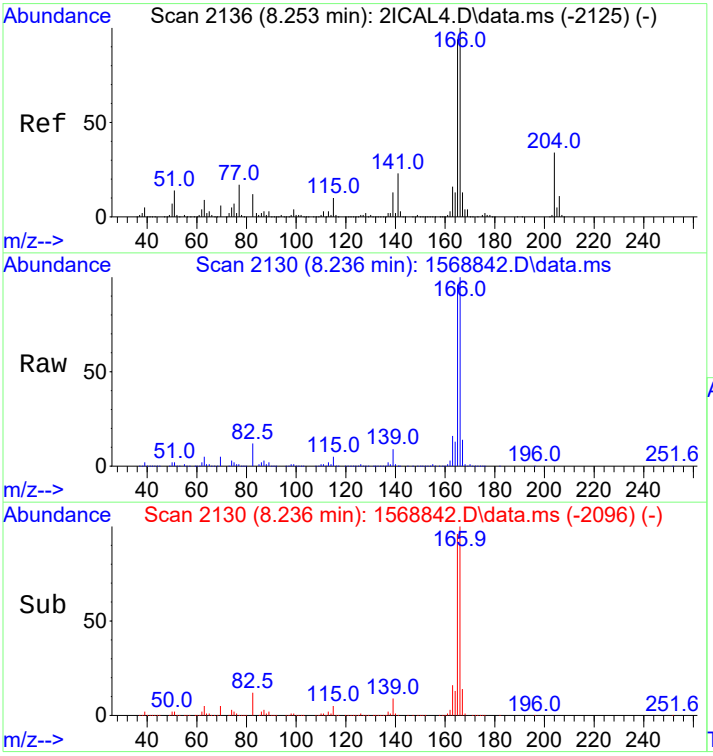



#55
4-Nitrophenol
Concen: 1.52 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. 0.045 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion: 65 Resp: 1425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 5289.2 | 80.5 | 140.5# |
| 109 | 54.4 | 37.6 | 97.6 |

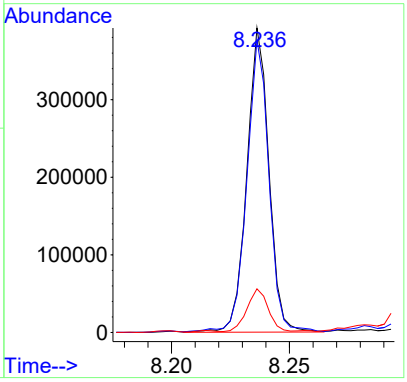


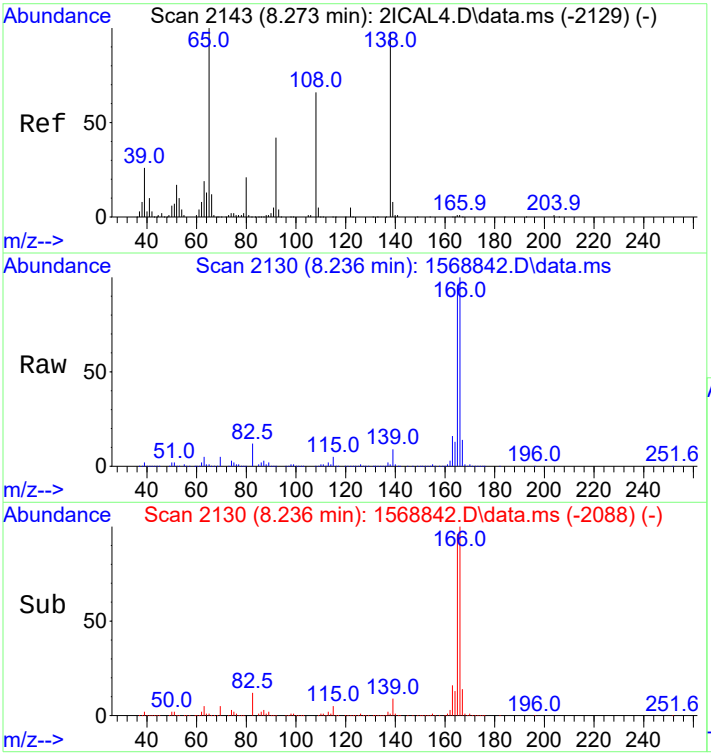




#58
Fluorene
Concen: 9.36 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:166 Resp: 256091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.1 | 63.6 | 123.6 |
| 167 | 14.1 | 0.0 | 43.3 |

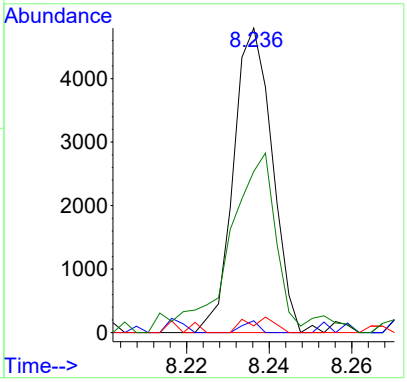


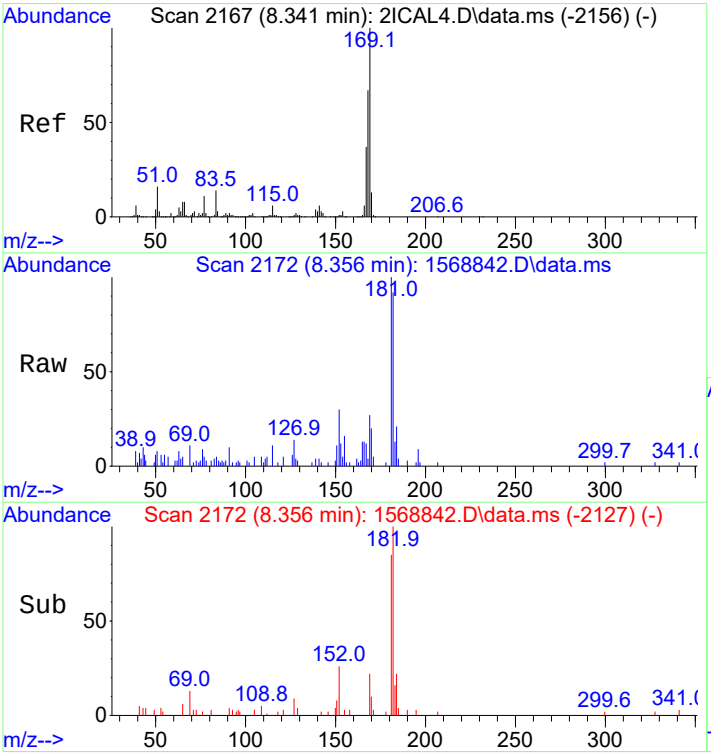



#61
4Nitroaniline
Concen: 0.81 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.020 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:138 Resp: 3131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 1.0 | 12.7 | 72.7# |
| 108 | 2.2 | 36.9 | 96.9# |
| 65 | 52.5 | 71.1 | 131.1# |

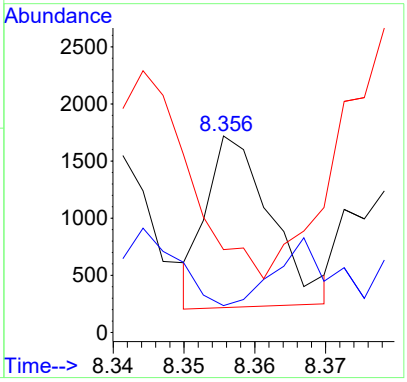


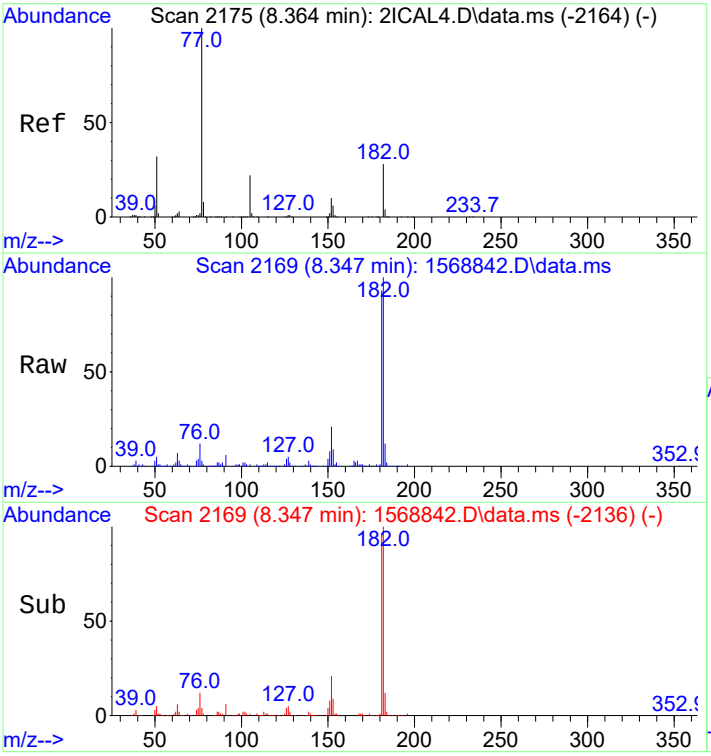




#65
Ntrsdiphlam&Diphlam
Concen: 0.05 ug/mL
RT: 8.356 min Scan# 2172
Delta R.T. 0.028 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:169 Resp: 952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 0.0 | 37.2 | 97.2# |
| 167 | 0.0 | 6.9 | 66.9# |

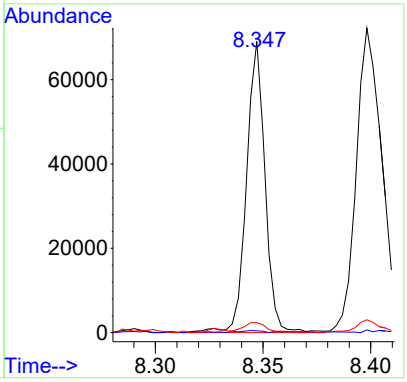


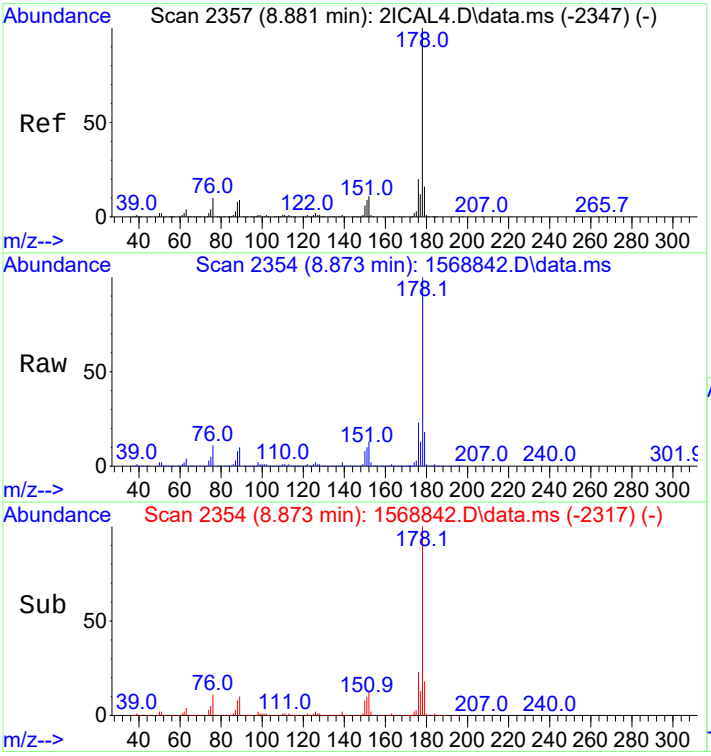



#66
Azobenz&12Diphlhyd
Concen: 5.84 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:182 Resp: 41530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.6 | 49.9 | 109.9# |
| 77 | 3.2 | 339.9 | 399.9# |

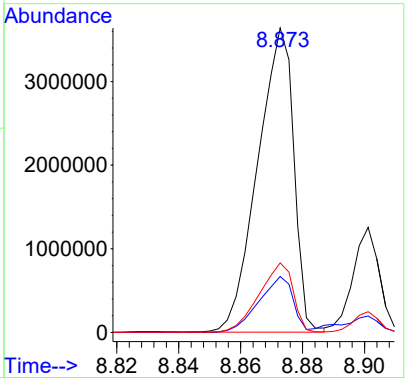


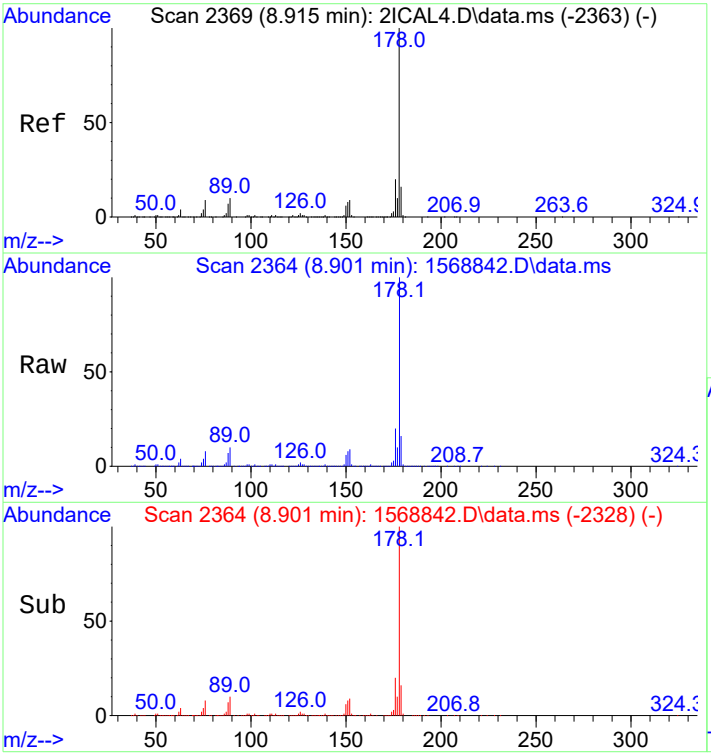




#70
Phenanthrene
Concen: 78.16 ug/mL
RT: 8.873 min Scan# 2354
Delta R.T. 0.006 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:178 Resp: 2942950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 18.4 | 0.0 | 45.9 |
| 176 | 22.8 | 0.0 | 50.4 |

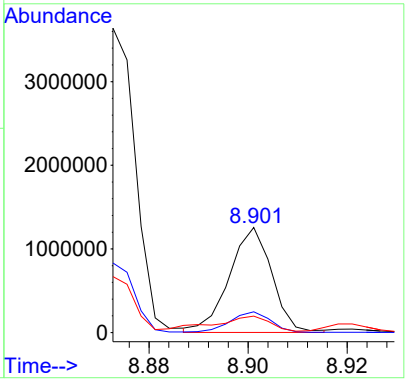


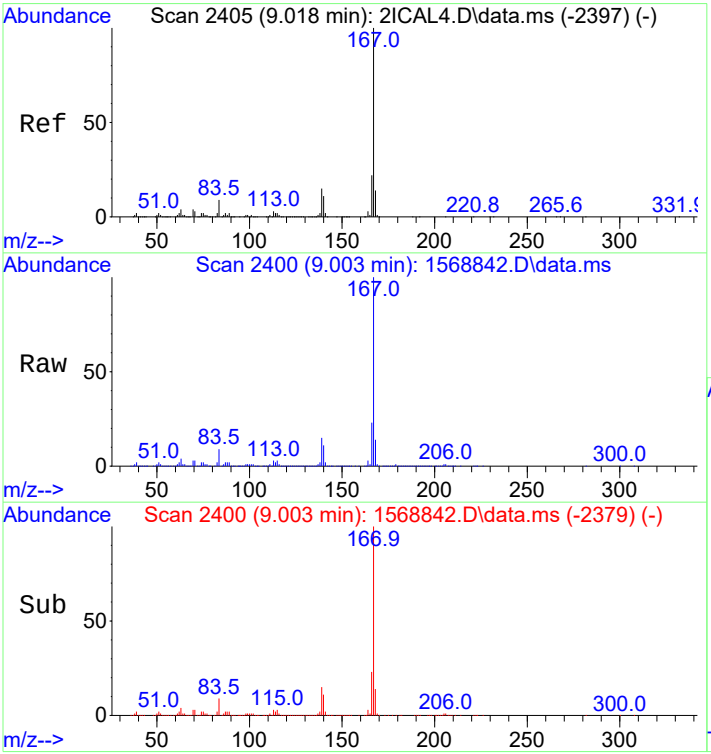



#71
Anthracene
Concen: 19.59 ug/mL
RT: 8.901 min Scan# 2364
Delta R.T. 0.003 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:178 Resp: 750439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 0.0 | 49.5 |
| 179 | 11.0 | 0.0 | 45.9 |

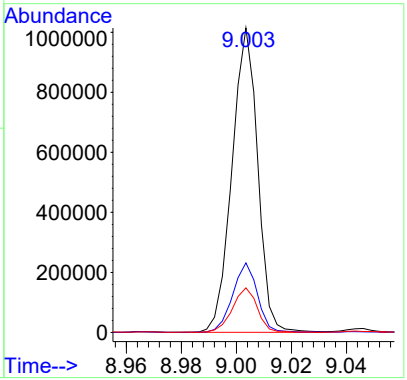


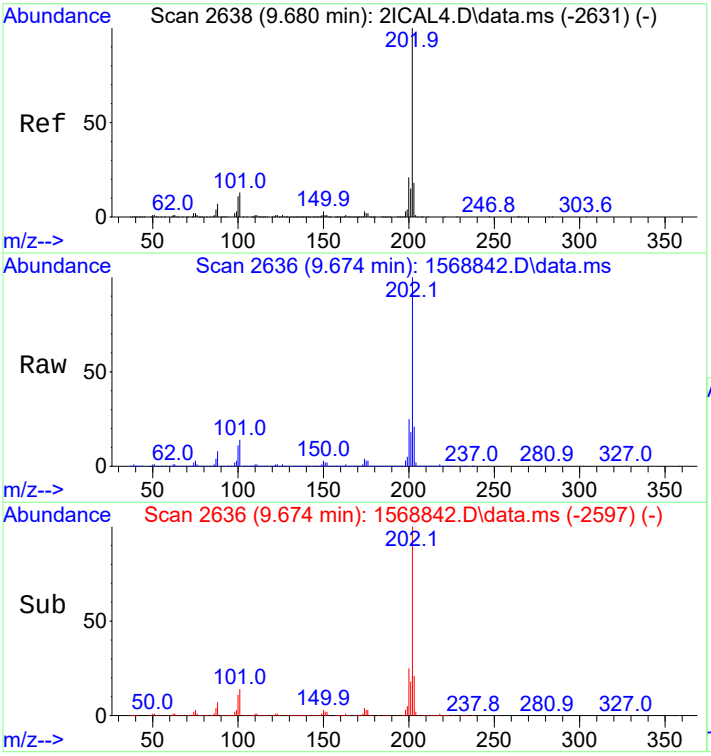




#72
Carbazole
Concen: 20.19 ug/mL
RT: 9.003 min Scan# 2400
Delta R.T. -0.000 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:167 Resp: 658519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.9 | 0.0 | 52.1 |
| 139 | 14.6 | 0.0 | 44.7 |

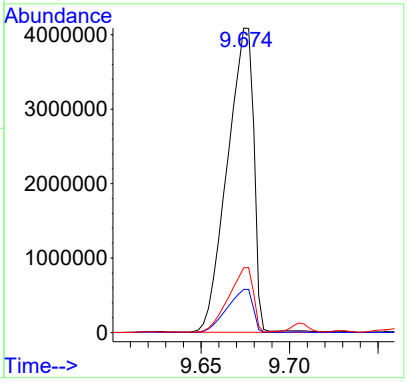


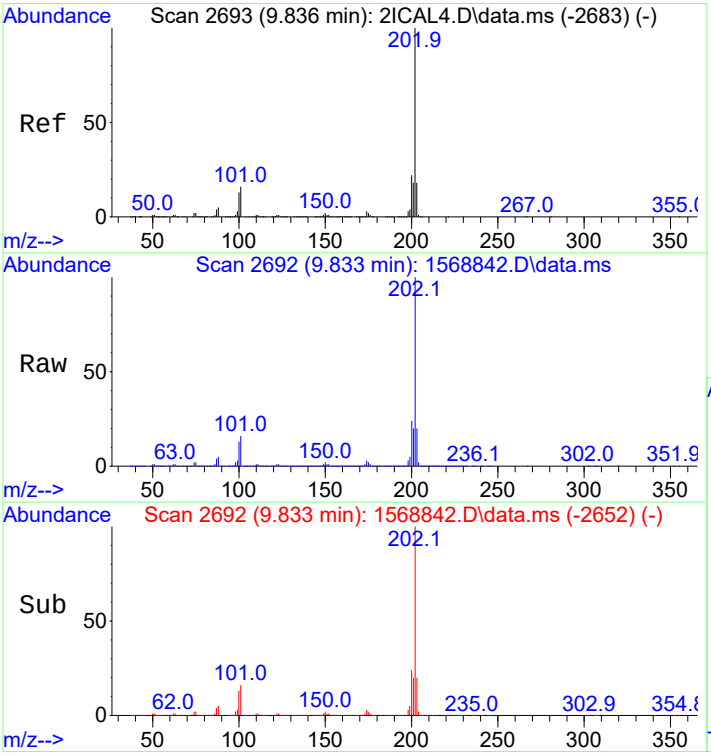



#74
Fluoranthene
Concen: 106.80 ug/mL
RT: 9.674 min Scan# 2636
Delta R.T. 0.011 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:202 Resp: 4246499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.2 | 0.0 | 43.0 |
| 203 | 21.1 | 0.0 | 48.2 |

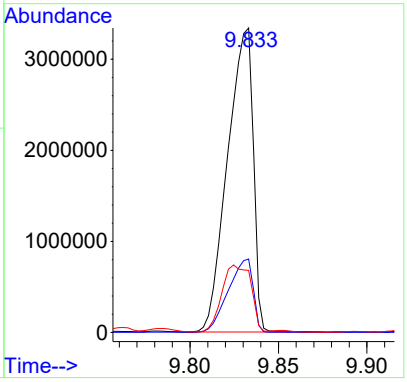


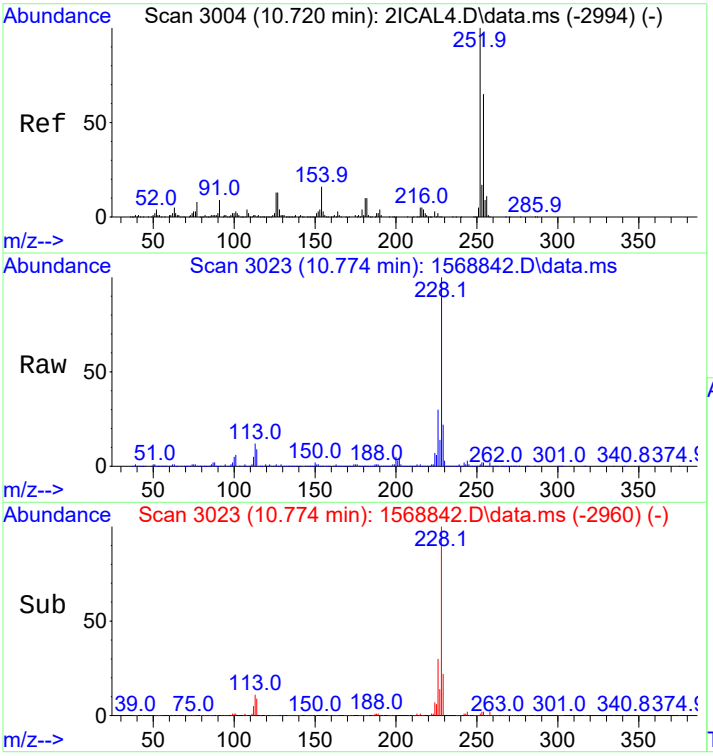




#77
Pyrene
Concen: 87.57 ug/mL
RT: 9.833 min Scan# 2692
Delta R.T. 0.014 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:202 Resp: 3368307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 24.1 | 0.0 | 52.2 |
| 203 | 20.4 | 0.0 | 48.2 |

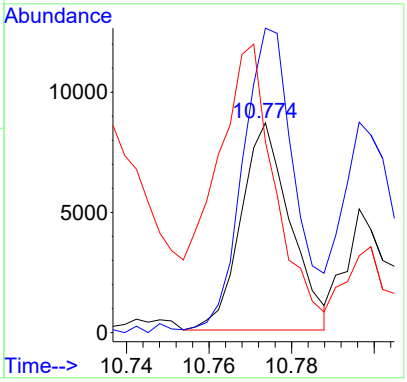


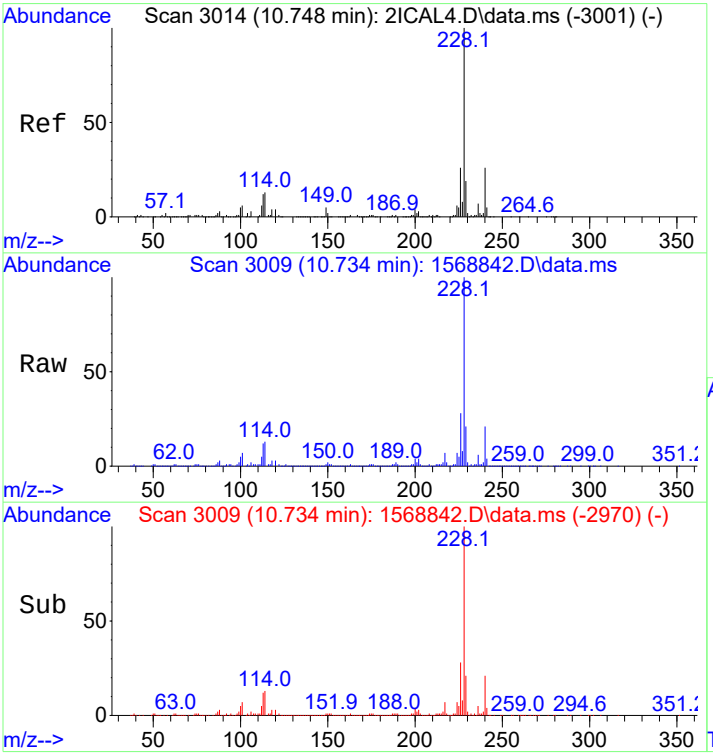



#81
33Diclbnzidin
Concen: 0.66 ug/mL
RT: 10.774 min Scan# 3023
Delta R.T. 0.080 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:252 Resp: 7169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 145.6 | 34.6 | 94.6# |
| 126 | 82.1 | 0.0 | 42.6# |

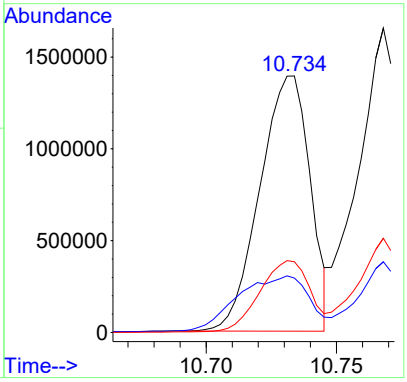


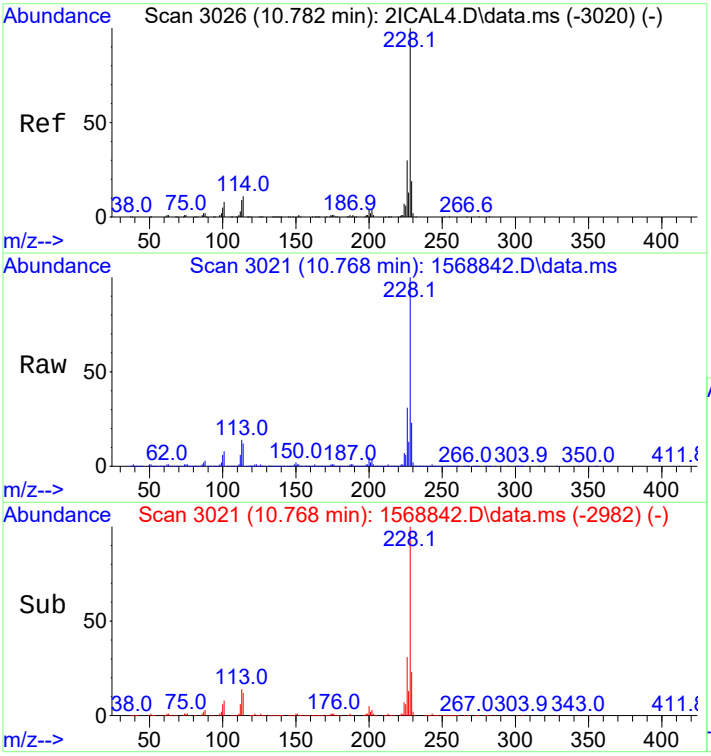




#82
B[a]anthracen
Concen: 51.10 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. 0.011 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:228 Resp: 1863222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.6 | 0.0 | 49.4 |
| 226 | 27.5 | 0.0 | 56.5 |

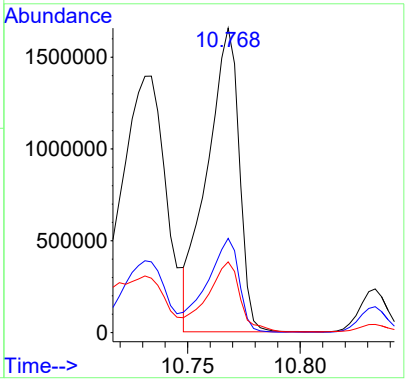


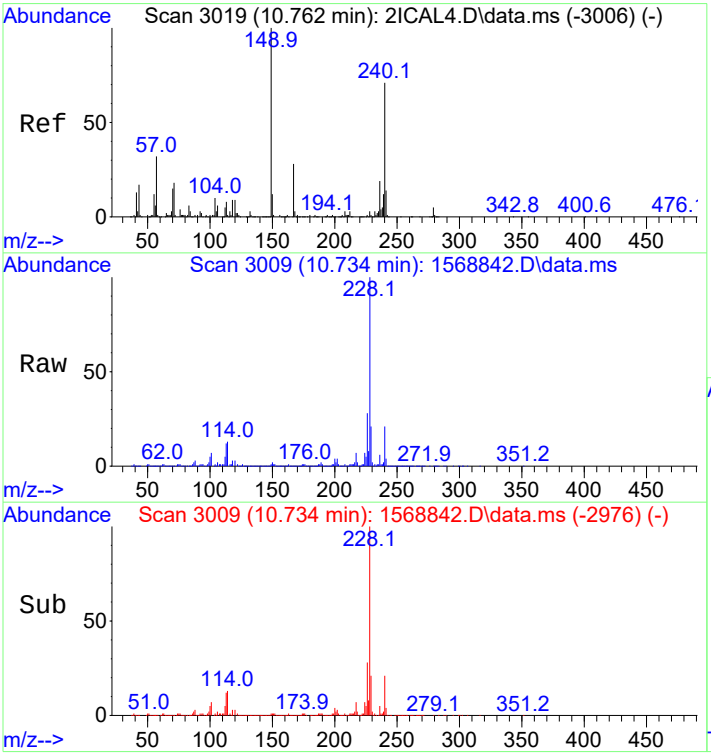



#83
Chrysene
Concen: 48.23 ug/mL
RT: 10.768 min Scan# 3021
Delta R.T. 0.011 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:228 Resp: 1649017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.9 | 0.0 | 59.9 |
| 229 | 23.0 | 0.0 | 49.5 |

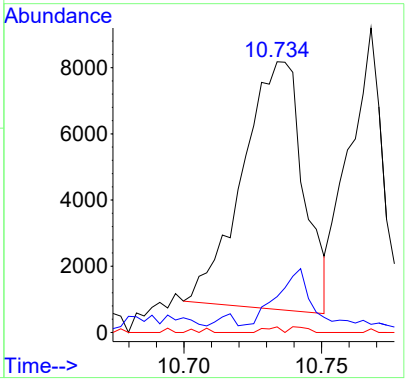


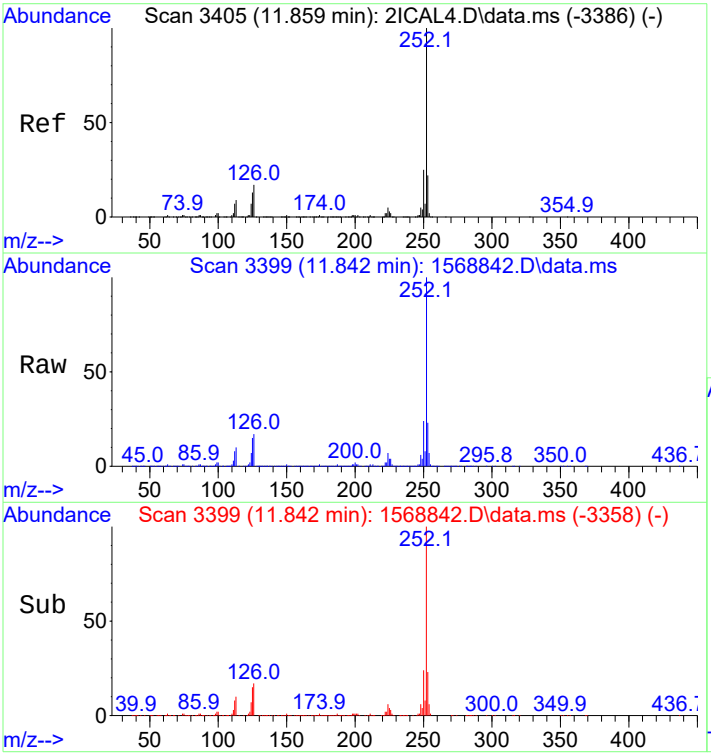




#84
bis2Ethlhxlph
Concen: 0.41 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.006 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:149 Resp: 11510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 8.8 | 0.0 | 57.9 |
| 279 | 2.3 | 0.0 | 34.9 |

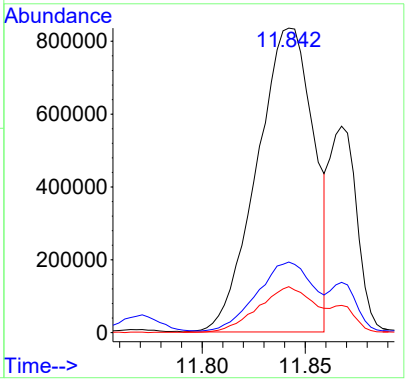


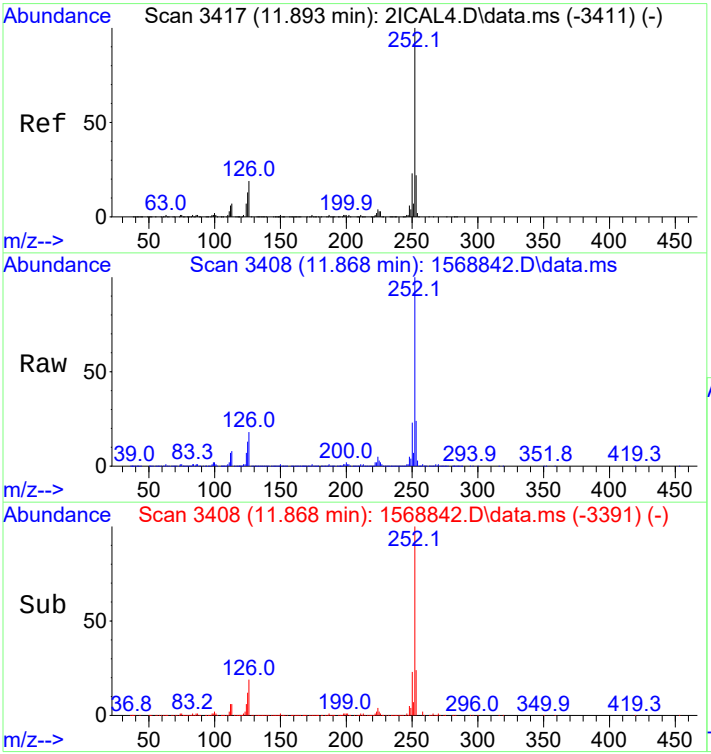



#87
B[b]fluoranth
Concen: 81.59 ug/mL
RT: 11.842 min Scan# 3399
Delta R.T. 0.017 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:252 Resp: 1596855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.4 | 0.0 | 52.3 |
| 125 | 15.0 | 0.0 | 43.2 |

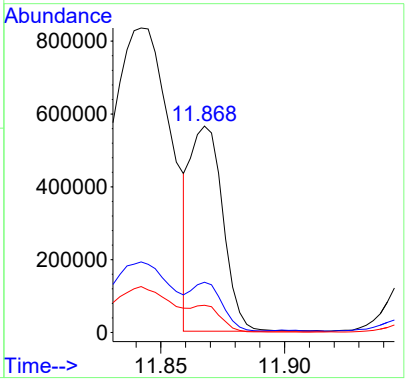


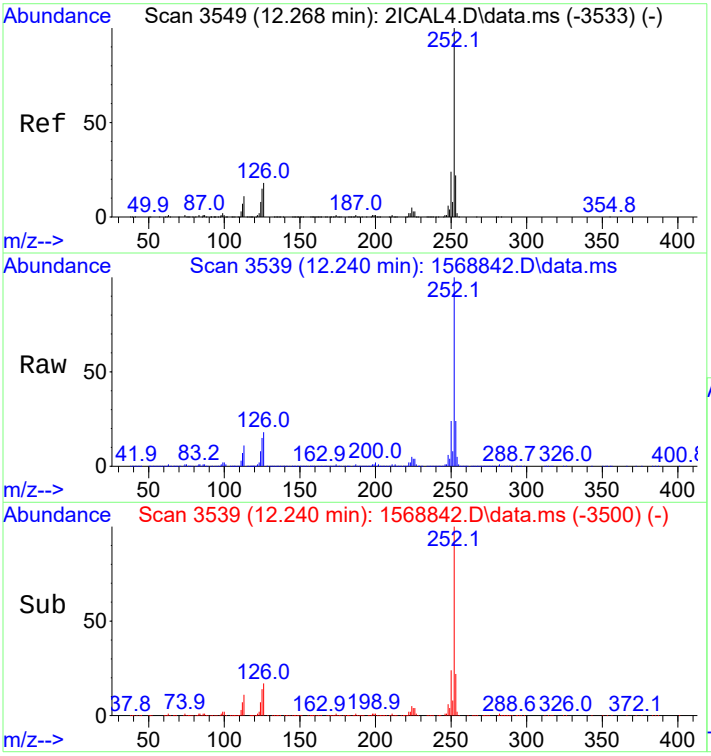




#88
B[k]fluoranth
Concen: 26.34 ug/mL
RT: 11.868 min Scan# 3408
Delta R.T. 0.009 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:252 Resp: 516433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.8 | 0.0 | 52.0 |
| 125 | 13.0 | 0.0 | 43.3 |

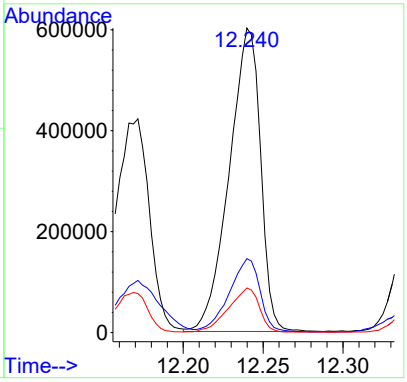


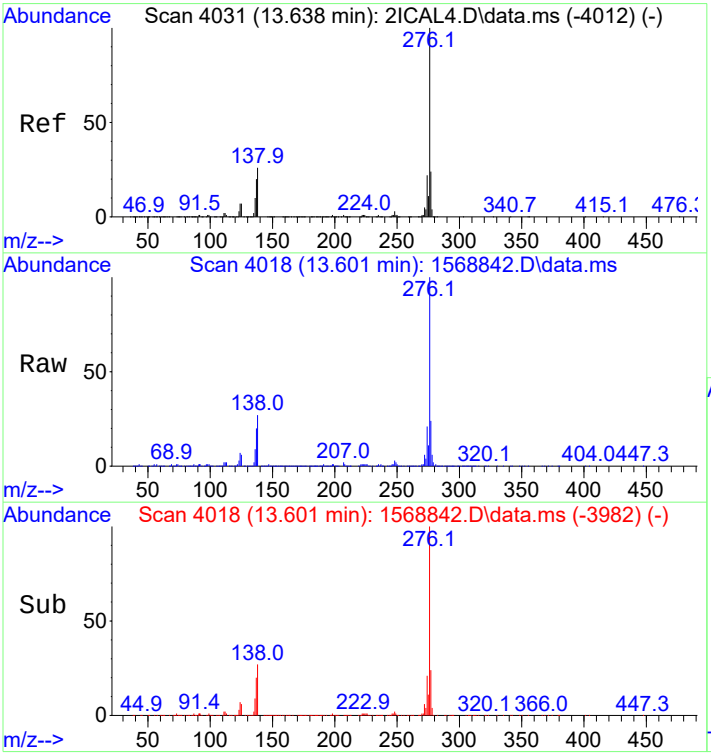



#89
Benz[a]pyrene
Concen: 45.56 ug/mL
RT: 12.240 min Scan# 3539
Delta R.T. 0.011 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:252 Resp: 820027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.1 | 0.0 | 52.3 |
| 125 | 14.6 | 0.0 | 45.1 |

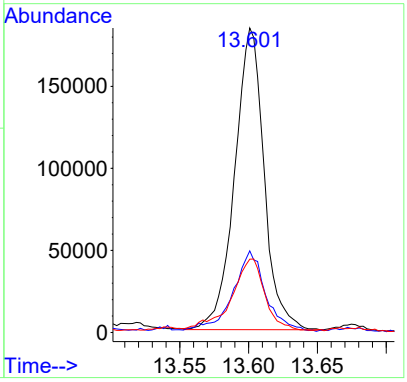


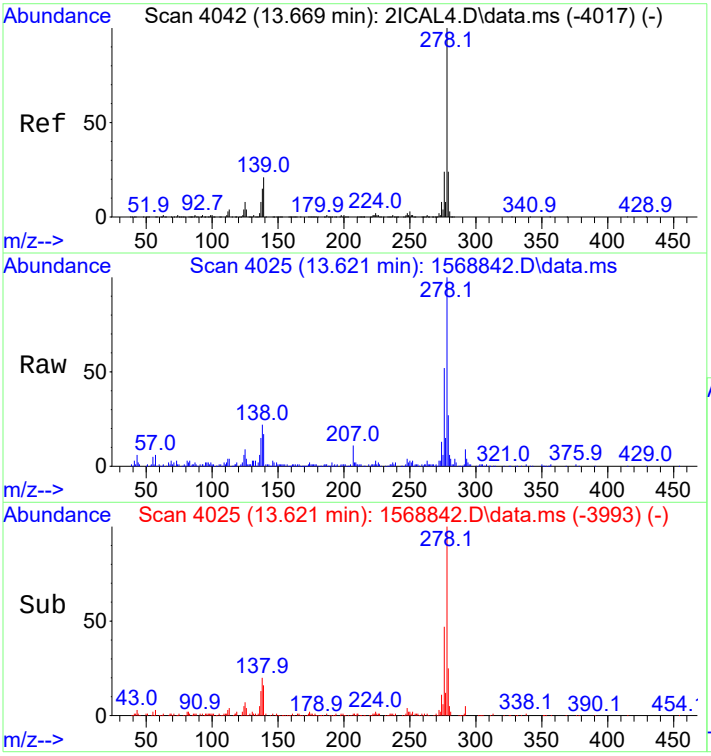




#90
Indeno-pyrene
Concen: 13.75 ug/mL
RT: 13.601 min Scan# 4018
Delta R.T. 0.003 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:276 Resp: 273747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.3 | 0.0 | 55.5 |
| 277 | 23.7 | 0.0 | 54.0 |

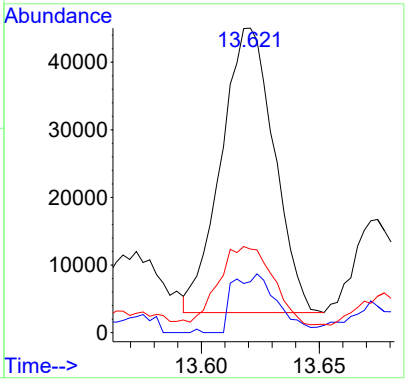


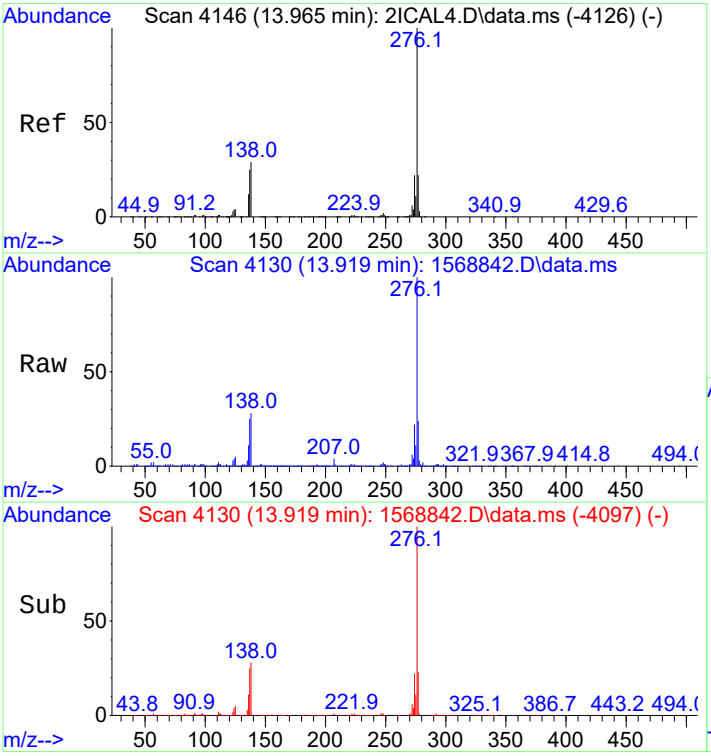



#91
Dib[ah]anthr
Concen: 4.04 ug/mL
RT: 13.621 min Scan# 4025
Delta R.T. -0.009 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:278 Resp: 65788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.9 | 0.0 | 50.9 |
| 279 | 26.4 | 0.0 | 54.4 |

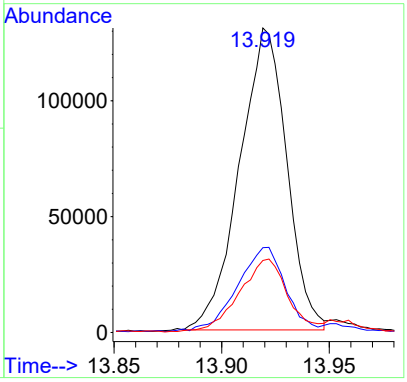



#92
B[ghi]perylen
Concen: 12.73 ug/mL
RT: 13.919 min Scan# 4130
Delta R.T. -0.006 min
Lab File: 1568842.D
Acq: 10 Apr 2025 23:30

Tgt Ion:276 Resp: 198462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.9 | 0.0 | 59.0 |
| 277 | 23.2 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568841.D Vial: 40
Acq On : 10 Apr 2025 23:53 Operator: ALD
Sample : 290730,1568841,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 00:10:27 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.332 | 152 | 192152 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.023 | 136 | 949818 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.798 | 164 | 540595 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.853 | 188 | 797446 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.748 | 240 | 621542 | 20.00 | ug/mL | 0.01 |
| 86) Perylene-d12 | 12.313 | 264 | 371772 | 20.00 | ug/mL | 0.01 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.099 | 112 | 41609 | 8.99 | %REC | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 8.99% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 52916 | 9.52 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 9.52% | | | |
| 22) SURRNitrbenzened5 | 5.014 | 82 | 22441 | 8.67 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 8.67% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 62717 | 9.72 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 9.72% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 15500 | 10.71 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 10.71% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 75905 | 12.52 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.52% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Pyridine | 2.601 | 79 | 1071 | 0.0806 | ug/mL | 88 |
| 8) Phenol | 3.928 | 94 | 1328 | 0.0932 | ug/mL | 77 |
| 18) Hexaclethane | 5.034 | 117 | 781 | 0.1435 | ug/mL# | 13 |
| 20) 3&4Methylphenol | 4.841 | 107 | 2128 | 0.1652 | ug/mL | 78 |
| 30) Benzoic acid | 5.798 | 122 | 1780 | 3.1566 | ug/mL# | 7 |
| 31) Naphthalene | 6.048 | 128 | 268535 | 6.1303 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.048 | 127 | 28819 | 1.6860 | ug/mL# | 34 |
| 37) 2Methylnaphth | 6.841 | 142 | 83865 | 3.1677 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.938 | 142 | 53984 | 1.9716 | ug/mL | 98 |
| 47) Acnaphthylene | 7.673 | 152 | 13510 | 0.3088 | ug/mL | 97 |
| 50) Acenaphthene | 7.827 | 154 | 543303 | 20.8945 | ug/mL | 98 |
| 51) 3Nitroaniline | 7.824 | 138 | 609 | 0.3159 | ug/mL# | 7 |
| 53) Dibenzofuran | 7.969 | 168 | 424852 | 11.3145 | ug/mL | 96 |
| 54) 24Dinitrotolu | 7.969 | 165 | 1316 | 0.1386 | ug/mL# | 1 |
| 55) 4-Nitrophenol | 7.969 | 65 | 2650 | 1.7239 | ug/mL# | 1 |
| 58) Fluorene | 8.239 | 166 | 465456 | 16.2153 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.239 | 138 | 5767 | 1.1704 | ug/mL# | 39 |
| 65) Ntrsdiphlam&Diphlam | 8.330 | 169 | 7663 | 0.3727 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 75021 | 10.2327 | ug/mL# | 1 |
| 70) Phenanthrene | 8.878 | 178 | 4841381 | 124.6136 | ug/mL | 90 |
| 71) Anthracene | 8.907 | 178 | 1197707 | 30.3002 | ug/mL | 98 |
| 72) Carbazole | 9.006 | 167 | 1146229 | 34.0540 | ug/mL | 99 |
| 74) Fluoranthene | 9.682 | 202 | 6301993 | 153.6132 | ug/mL | 91 |
| 76) Benzidine | 9.796 | 184 | 1437 | Below Cal | | 61 |
| 77) Pyrene | 9.839 | 202 | 4965466 | 125.7743 | ug/mL | 92 |
| 81) 33Diclbnzidin | 10.776 | 252 | 9640 | 0.9445 | ug/mL# | 1 |
| 82) B[a]anthracen | 10.739 | 228 | 2635884 | 70.4397 | ug/mL | 96 |
| 83) Chrysene | 10.776 | 228 | 2411914 | 68.7258 | ug/mL | 94 |
| 84) bis2Ethlhxlph | 10.739 | 149 | 11636 | 0.4086 | ug/mL | 63 |
| 87) B[b]fluoranth | 11.850 | 252 | 2258295 | 114.6726 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.876 | 252 | 721350 | 36.5590 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.251 | 252 | 1158887 | 63.9884 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.606 | 276 | 374466 | 18.6939 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.626 | 278 | 87899 | 5.3681 | ug/mL | 92 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568841.D Vial: 40
Acq On : 10 Apr 2025 23:53 Operator: ALD
Sample : 290730,1568841,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 00:10:27 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

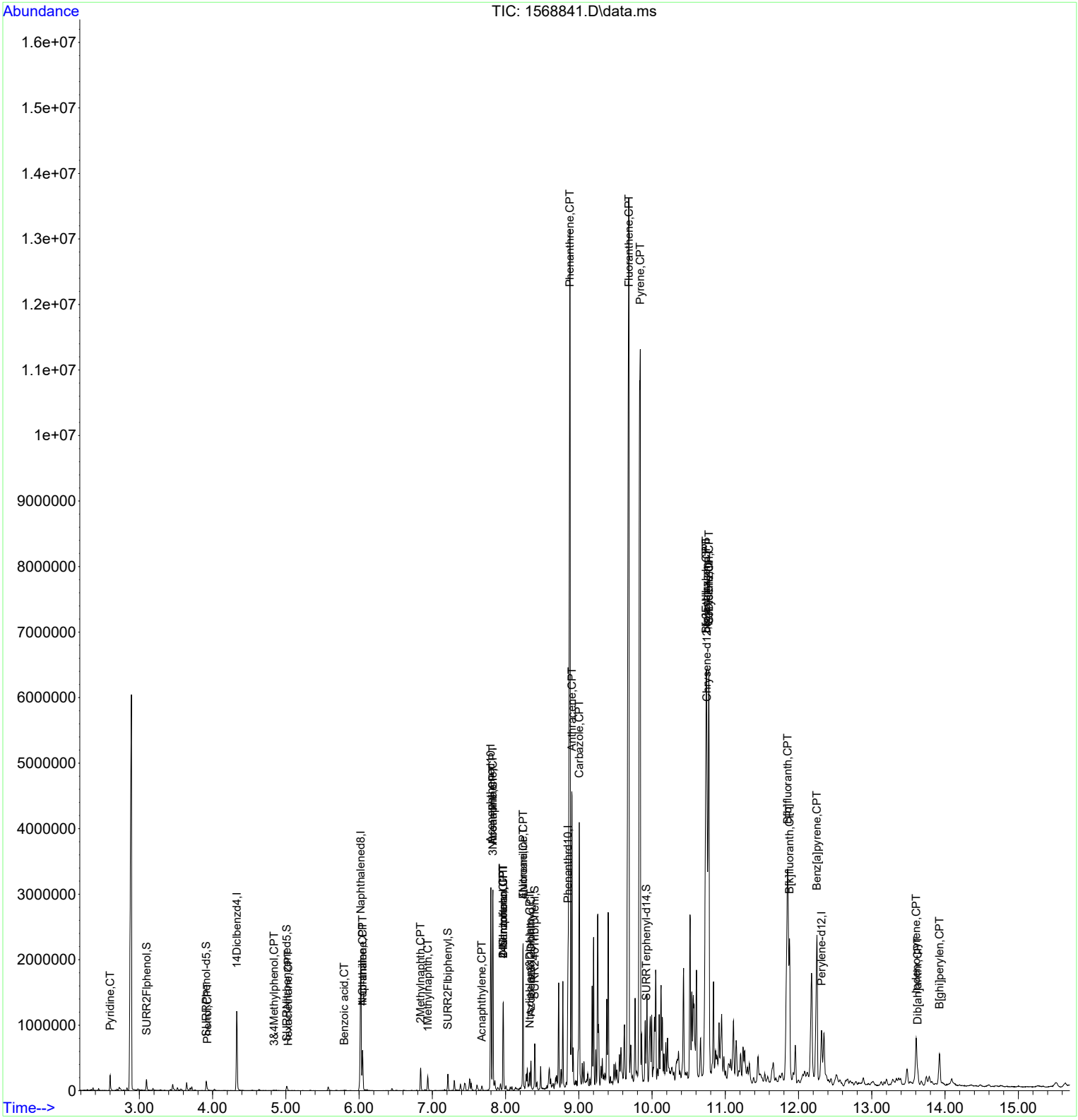
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) B[ghi]perylen | 13.925 | 276 | 268725 | 17.1227 | ug/mL | 99 |

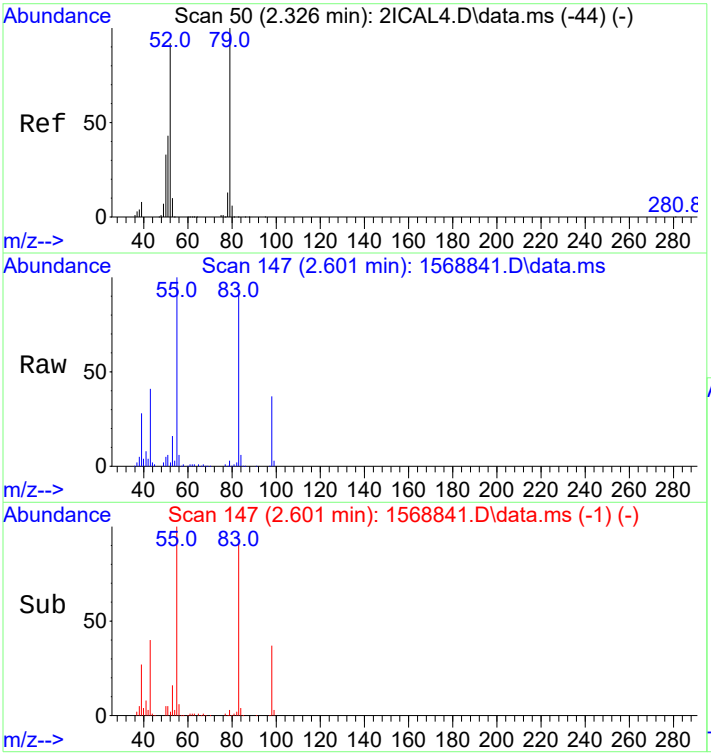
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568841.D Vial: 40
Acq On : 10 Apr 2025 23:53 Operator: ALD
Sample : 290730,1568841,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 00:10:27 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

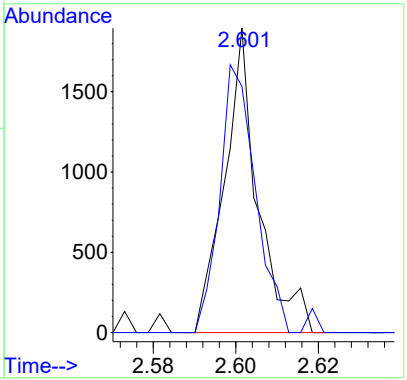


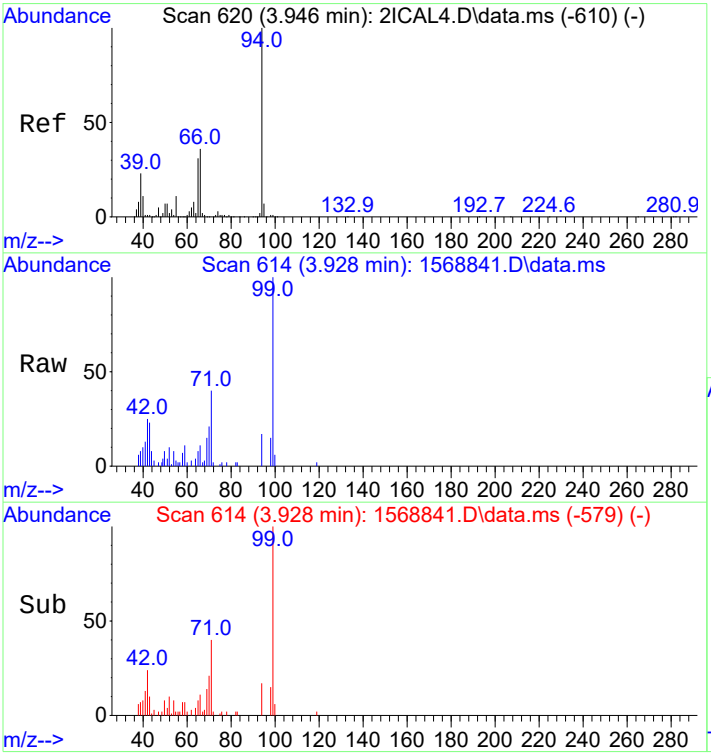



#3
Pyridine
Concen: 0.08 ug/mL
RT: 2.601 min Scan# 147
Delta R.T. 0.292 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion: 79 Resp: 1071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 80.9 | 62.5 | 122.5 |

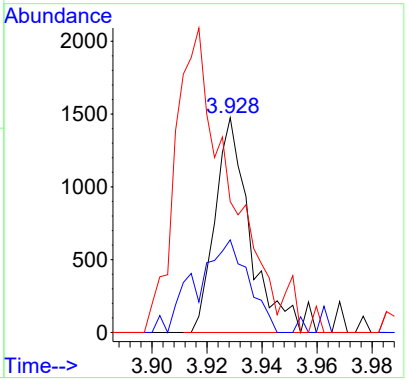


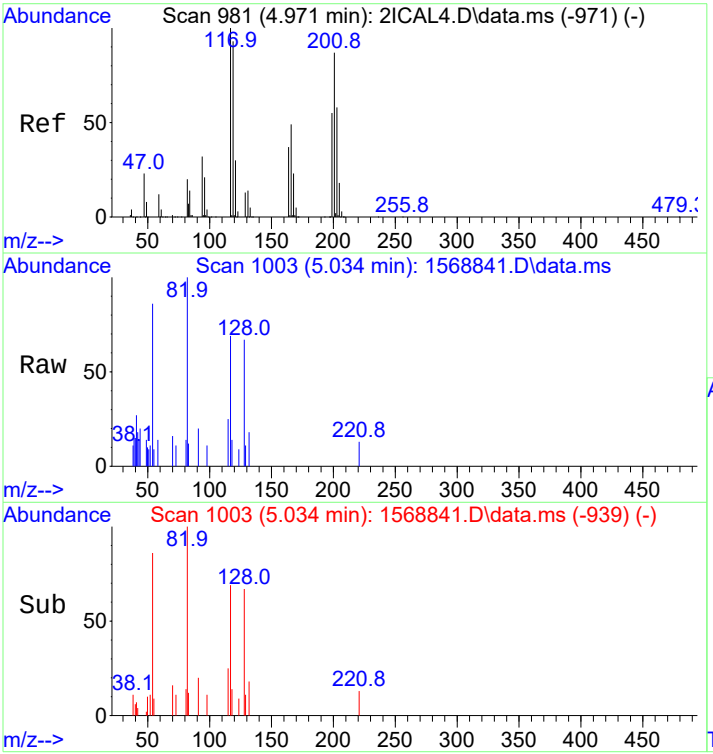




#8
Phenol
Concen: 0.09 ug/mL
RT: 3.928 min Scan# 614
Delta R.T. -0.000 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion: 94 Resp: 1328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 30.9 | 0.7 | 60.7 |
| 66 | 60.9 | 6.4 | 66.4 |

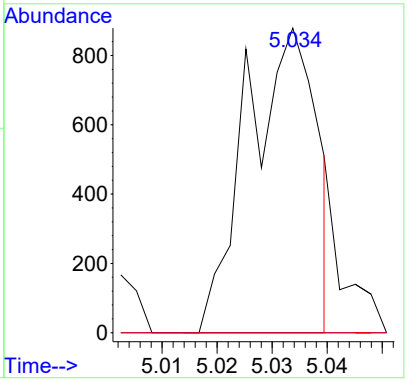


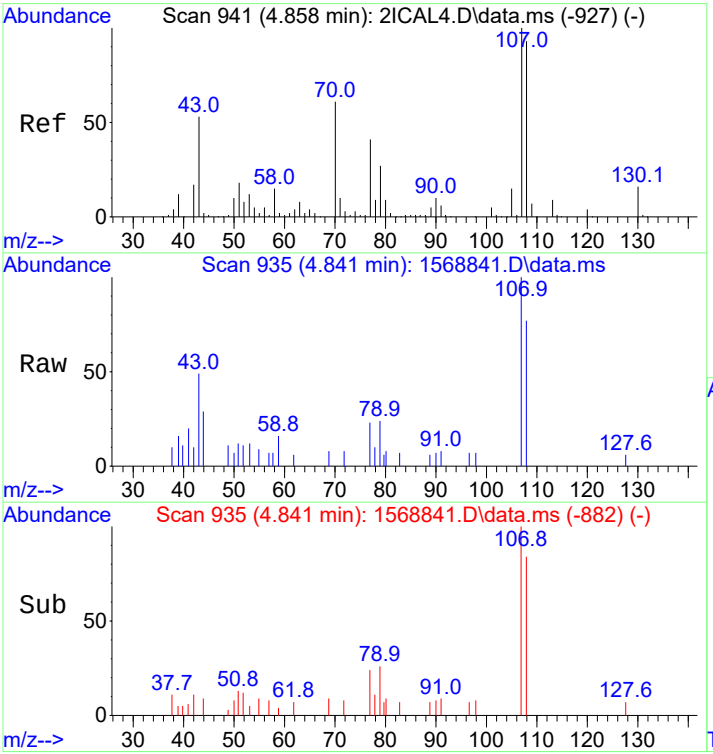



#18
Hexaclethane
Concen: 0.14 ug/mL
RT: 5.034 min Scan# 1003
Delta R.T. 0.082 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:117 Resp: 781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 0.0 | 56.5 | 116.5# |
| 199 | 0.0 | 25.0 | 85.0# |

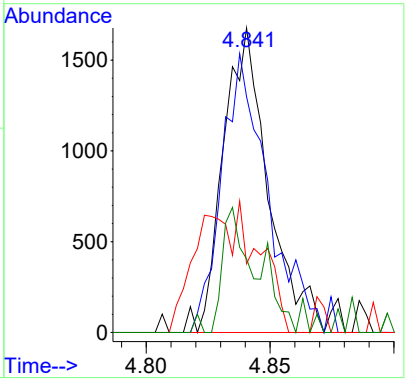


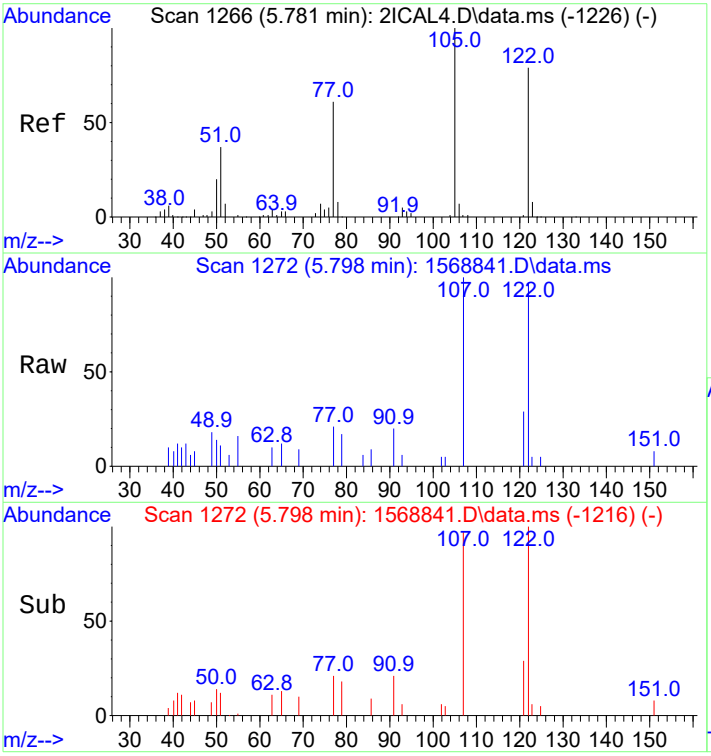




#20
3&4Methylphenol
Concen: 0.17 ug/mL
RT: 4.841 min Scan# 935
Delta R.T. -0.000 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:107 Resp: 2128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 77.5 | 63.3 | 123.3 |
| 77 | 14.2 | 11.4 | 71.4 |
| 79 | 30.5 | 0.0 | 56.9 |

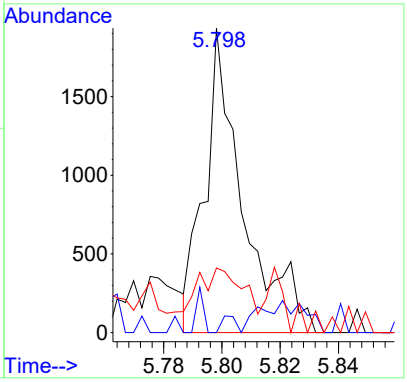


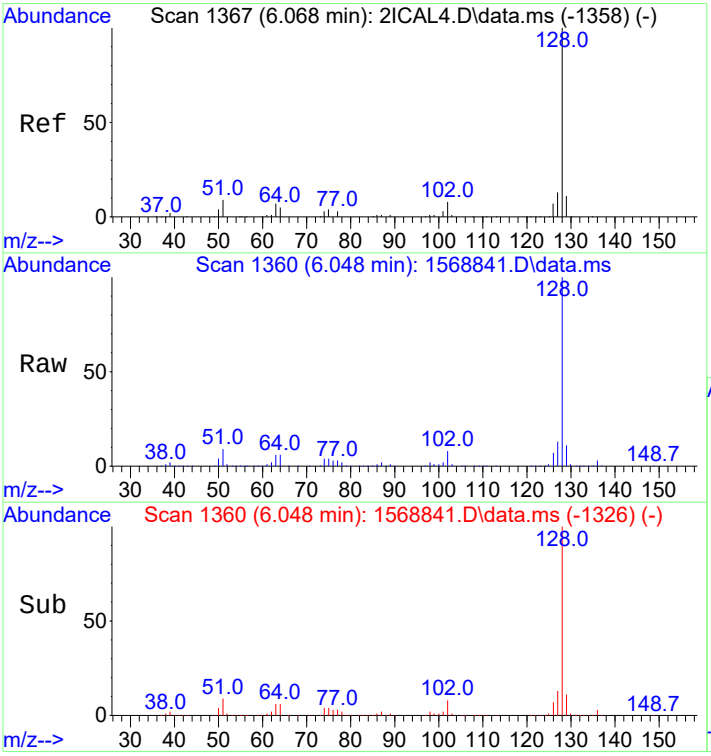



#30
Benzoic acid
Concen: 3.16 ug/mL
RT: 5.798 min Scan# 1272
Delta R.T. 0.028 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:122 Resp: 1780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 0.0 | 96.0 | 156.0# |
| 77 | 21.2 | 46.6 | 106.6# |

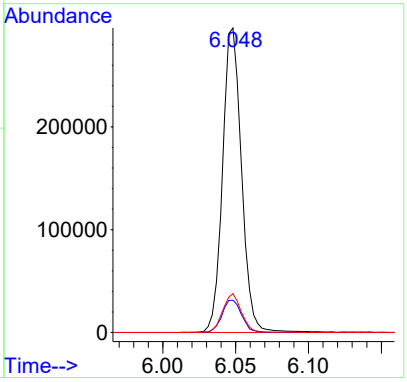


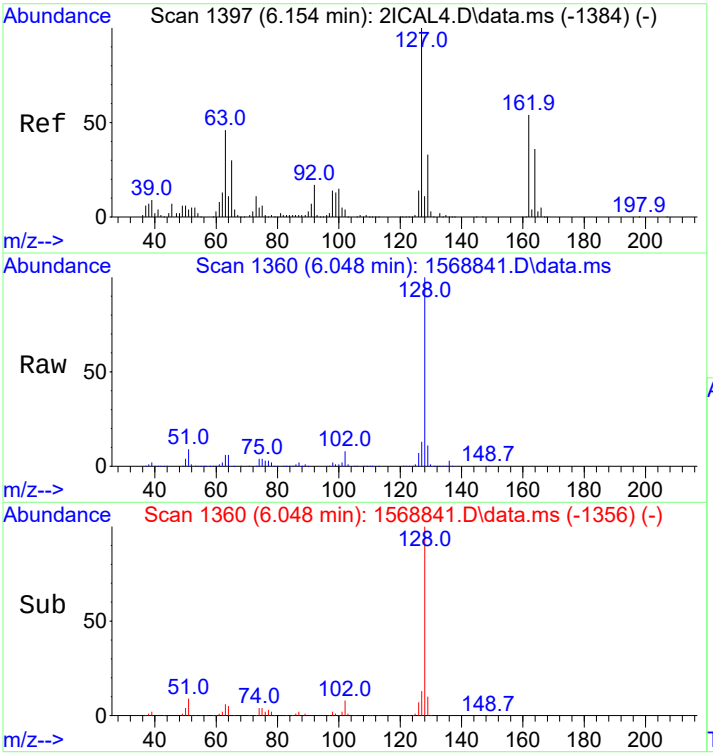




#31
Naphthalene
Concen: 6.13 ug/mL
RT: 6.048 min Scan# 1360
Delta R.T. -0.003 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:128 Resp: 268535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.6 | 0.0 | 41.0 |
| 127 | 12.8 | 0.0 | 43.3 |

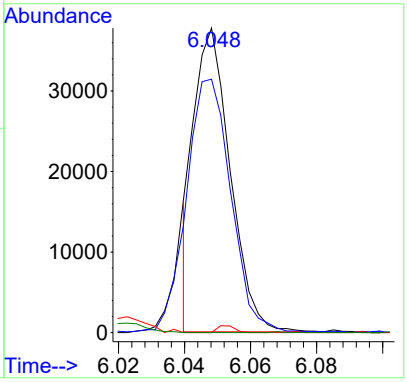


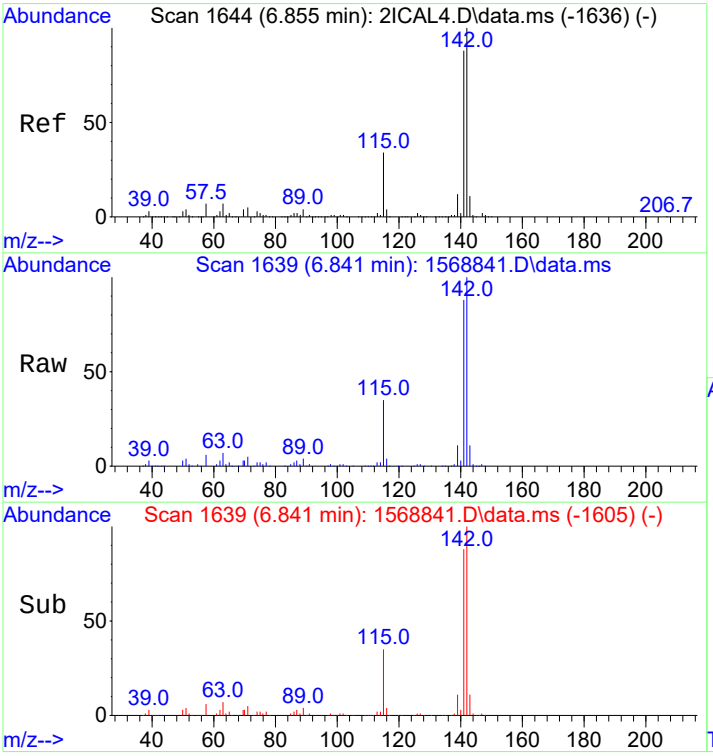



#32
4-Cl-aniline
Concen: 1.69 ug/mL
RT: 6.048 min Scan# 1360
Delta R.T. -0.088 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:127 Resp: 28819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 83.1 | 3.1 | 63.1# |
| 65 | 0.0 | 0.2 | 60.2# |
| 92 | 0.0 | 0.0 | 46.7 |

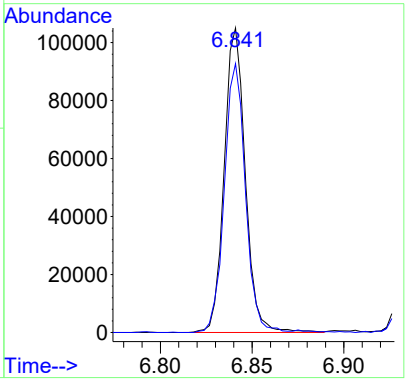


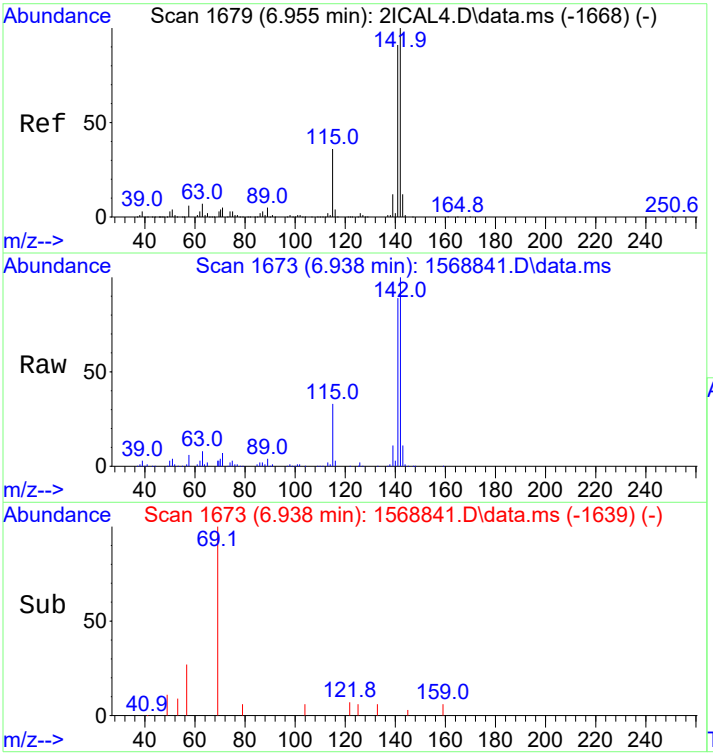




#37
2Methylnaphth
Concen: 3.17 ug/mL
RT: 6.841 min Scan# 1639
Delta R.T. -0.003 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:142 Resp: 83865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.3 | 58.0 | 118.0 |

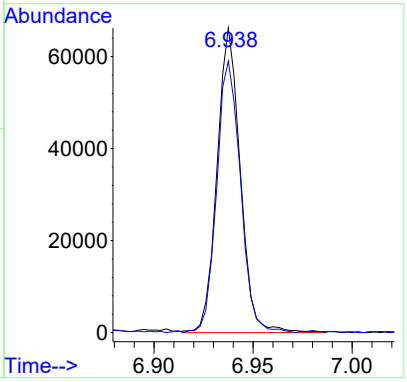


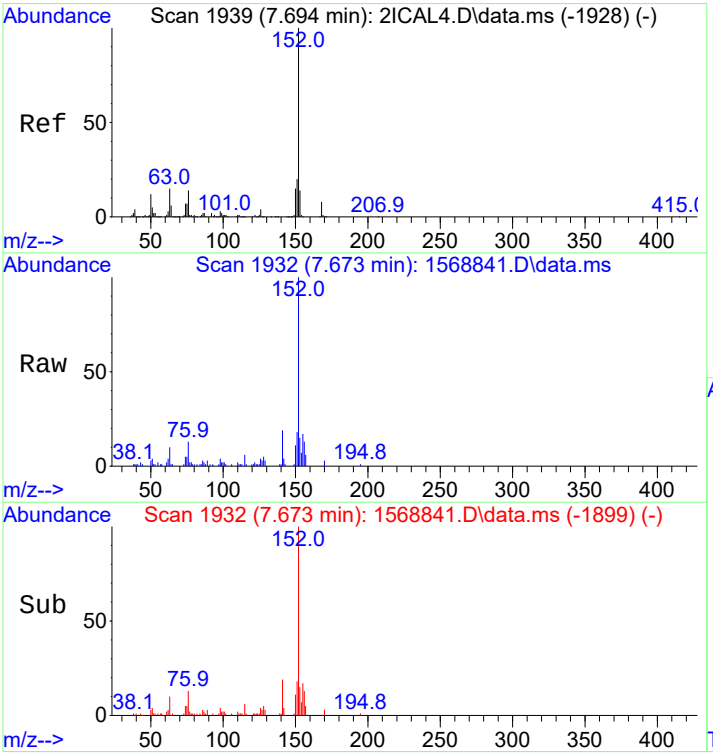



#38
1Methylnaphth
Concen: 1.97 ug/mL
RT: 6.938 min Scan# 1673
Delta R.T. -0.003 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:142 Resp: 53984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.8 | 60.7 | 120.7 |

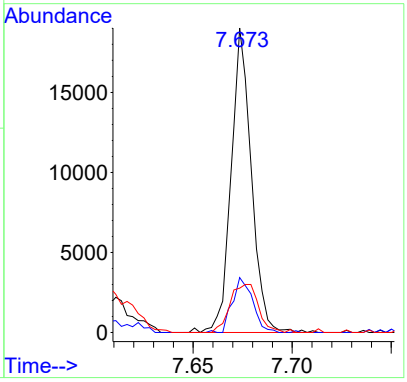


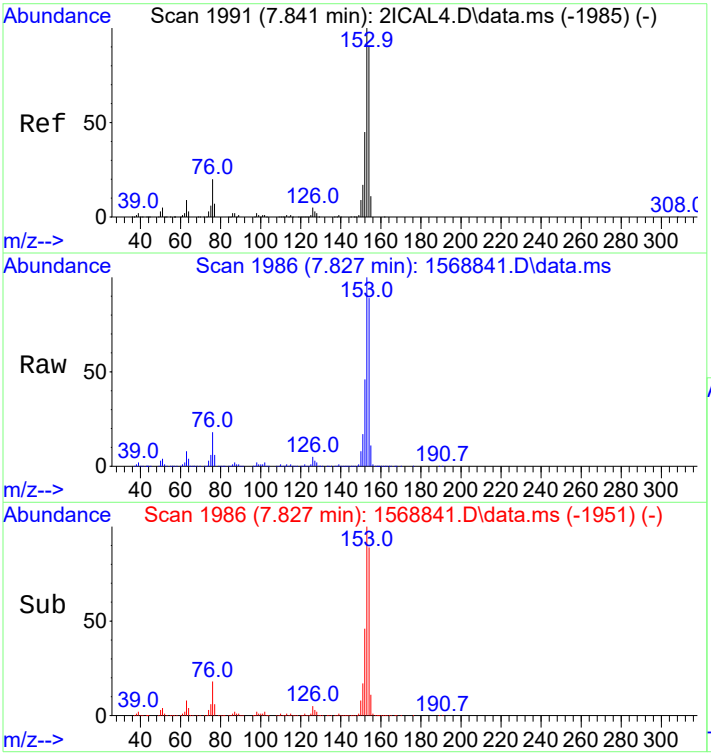




#47
Acnaphthylene
Concen: 0.31 ug/mL
RT: 7.673 min Scan# 1932
Delta R.T. -0.006 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:152 Resp: 13510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 18.0 | 0.0 | 50.3 |
| 153 | 14.5 | 0.0 | 44.4 |

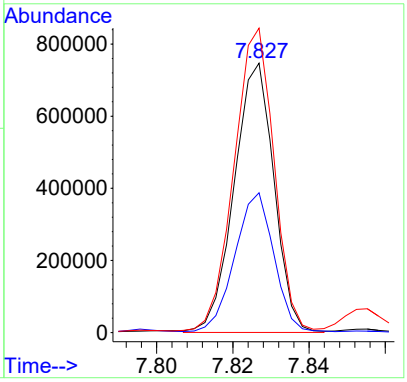


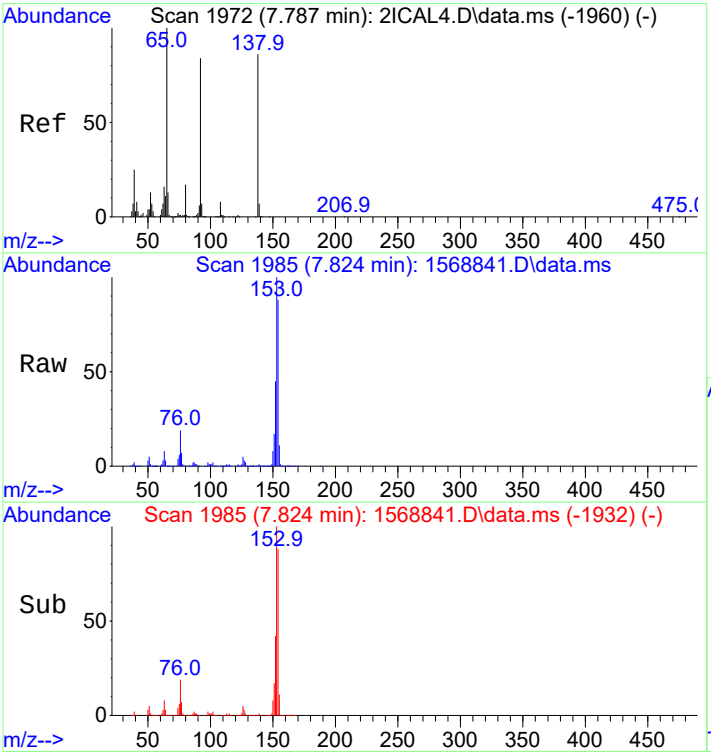



#50
Acenaphthene
Concen: 20.89 ug/mL
RT: 7.827 min Scan# 1986
Delta R.T. -0.000 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:154 Resp: 543303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 51.7 | 20.0 | 80.0 |
| 153 | 112.7 | 80.7 | 140.7 |

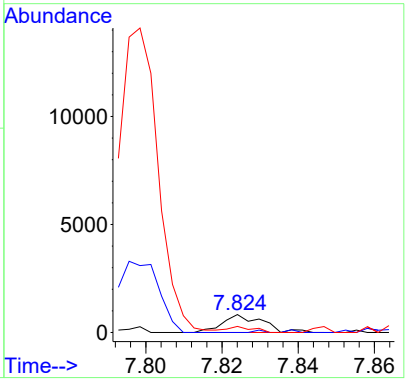


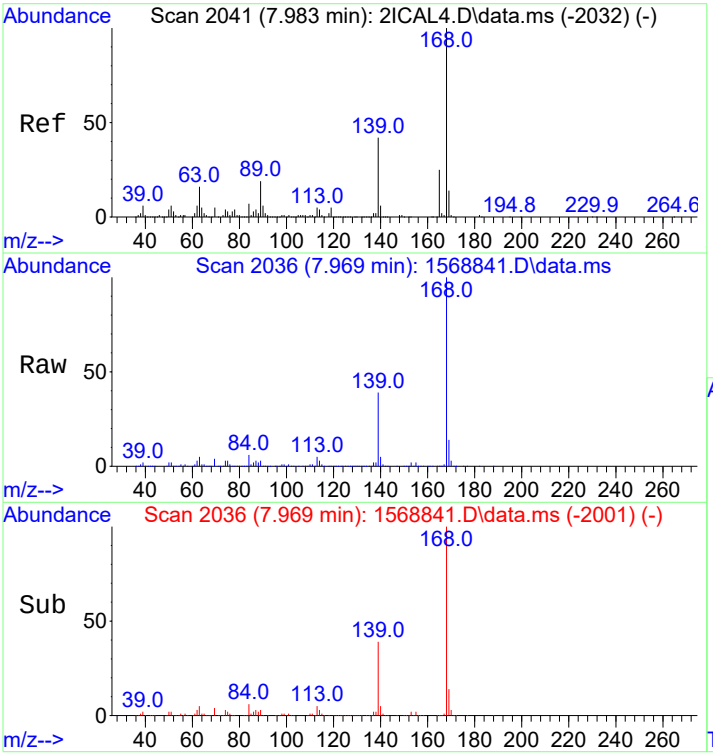




#51
3Nitroaniline
Concen: 0.32 ug/mL
RT: 7.824 min Scan# 1985
Delta R.T. 0.051 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:138 Resp: 609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 67.7 | 127.7# |
| 108 | 1.2 | 0.0 | 38.9 |

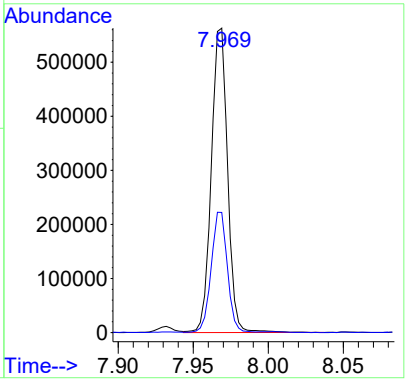


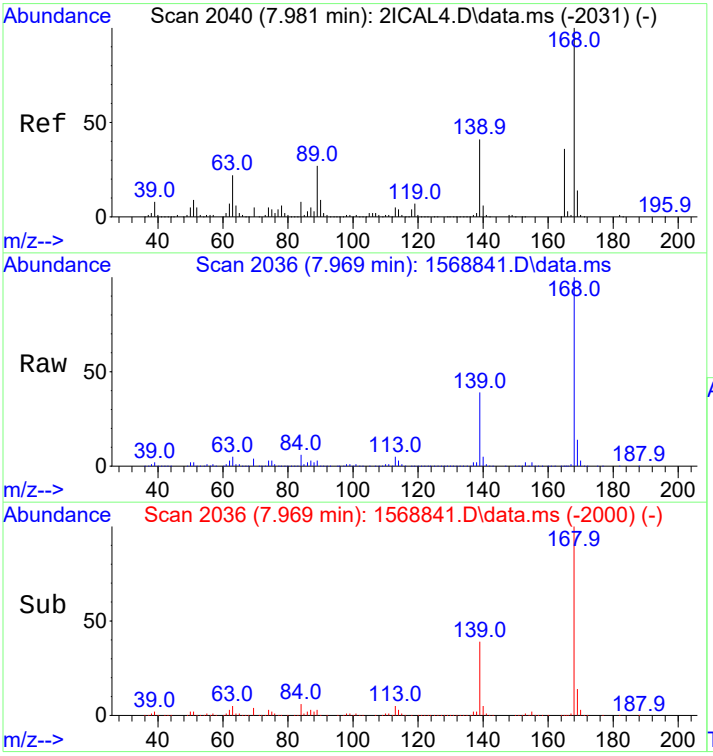



#53
Dibenzofuran
Concen: 11.31 ug/mL
RT: 7.969 min Scan# 2036
Delta R.T. -0.000 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:168 Resp: 424852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.5 | 11.9 | 71.9 |

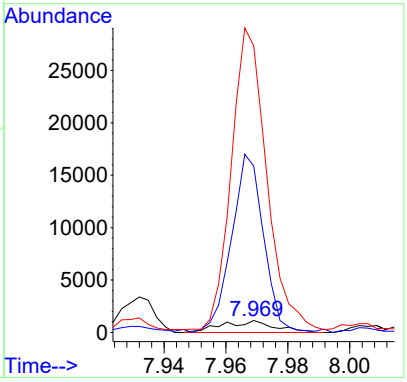


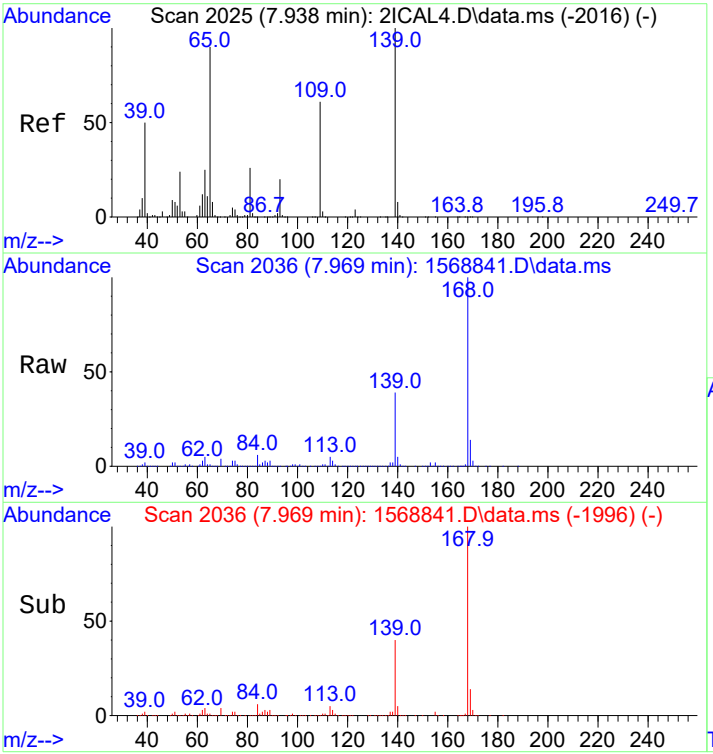




#54
24Dinitrotolu
Concen: 0.14 ug/mL
RT: 7.969 min Scan# 2036
Delta R.T. 0.003 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:165 Resp: 1316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 1369.0 | 46.1 | 106.1# |
| 63 | 2378.6 | 32.6 | 92.6# |

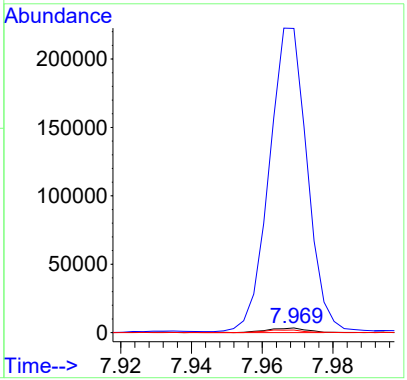


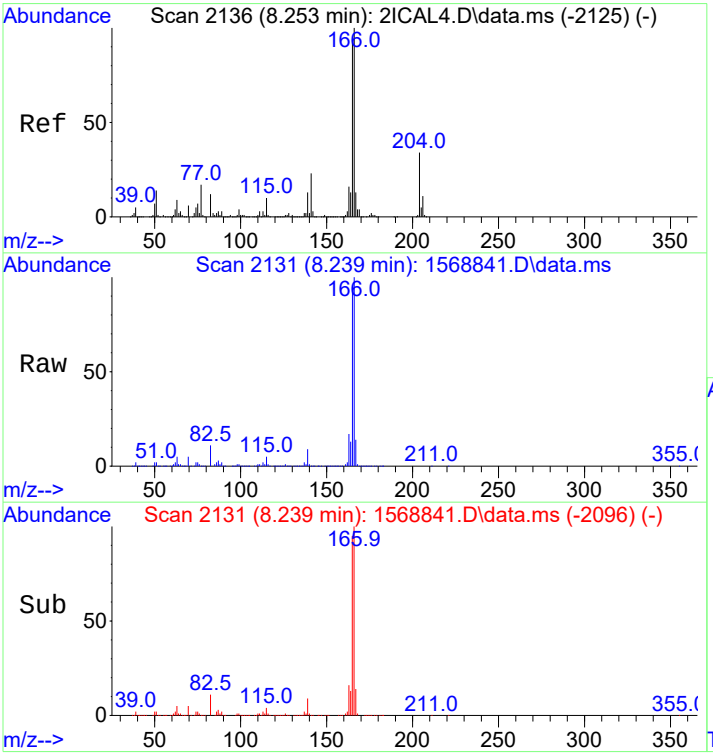



#55
4-Nitrophenol
Concen: 1.72 ug/mL
RT: 7.969 min Scan# 2036
Delta R.T. 0.048 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion: 65 Resp: 2650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 6586.2 | 80.5 | 140.5# |
| 109 | 54.2 | 37.6 | 97.6 |

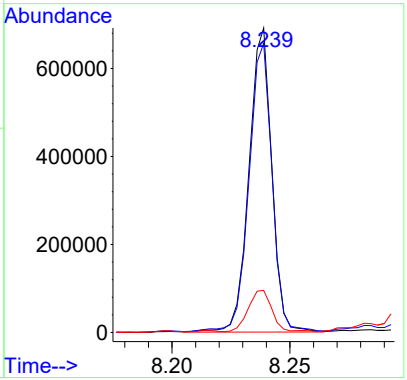


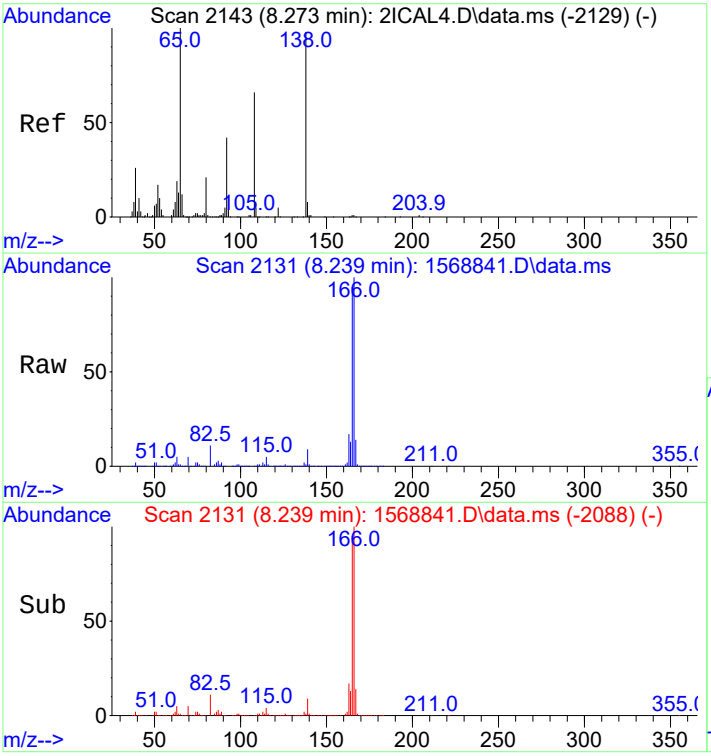




#58
Fluorene
Concen: 16.22 ug/mL
RT: 8.239 min Scan# 2131
Delta R.T. -0.000 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:166 Resp: 465456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 94.8 | 63.6 | 123.6 |
| 167 | 13.6 | 0.0 | 43.3 |

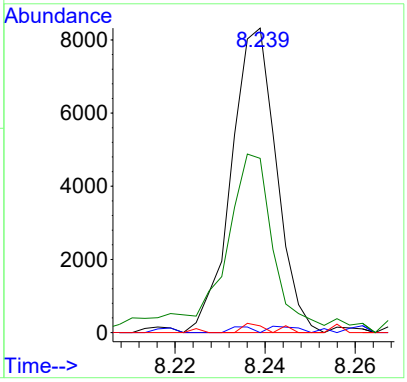


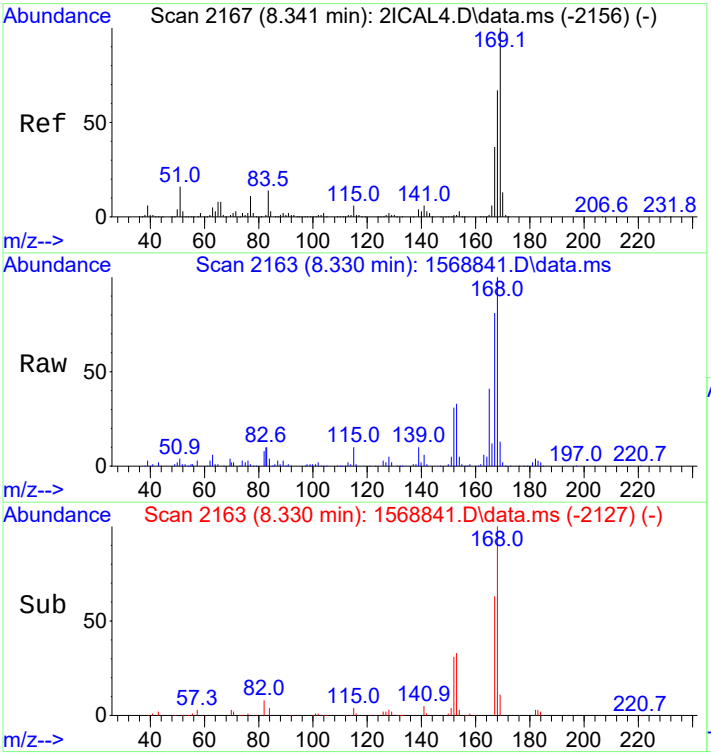



#61
4Nitroaniline
Concen: 1.17 ug/mL
RT: 8.239 min Scan# 2131
Delta R.T. -0.017 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:138 Resp: 5767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 2.2 | 36.9 | 96.9# |
| 65 | 54.8 | 71.1 | 131.1# |

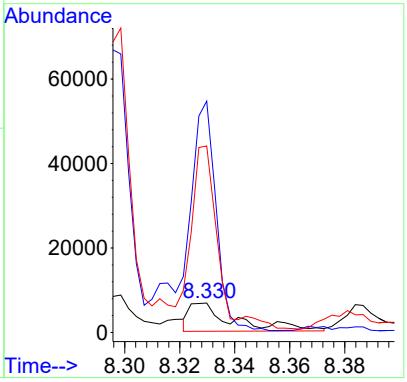


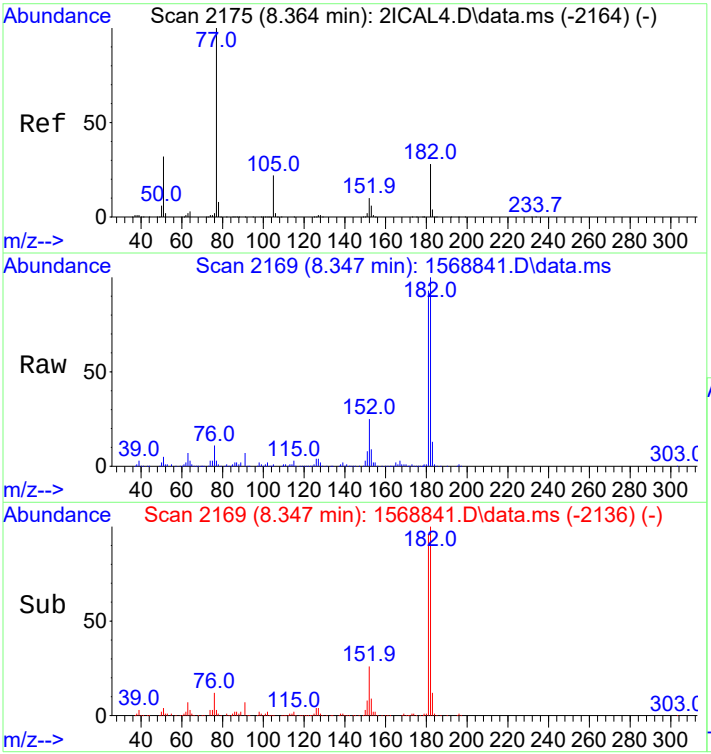




#65
Ntrsdiphlam&Diphlam
Concen: 0.37 ug/mL
RT: 8.330 min Scan# 2163
Delta R.T. 0.003 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:169 Resp: 7663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 879.1 | 37.2 | 97.2# |
| 167 | 675.4 | 6.9 | 66.9# |

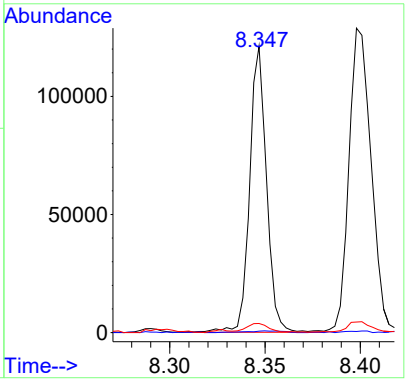


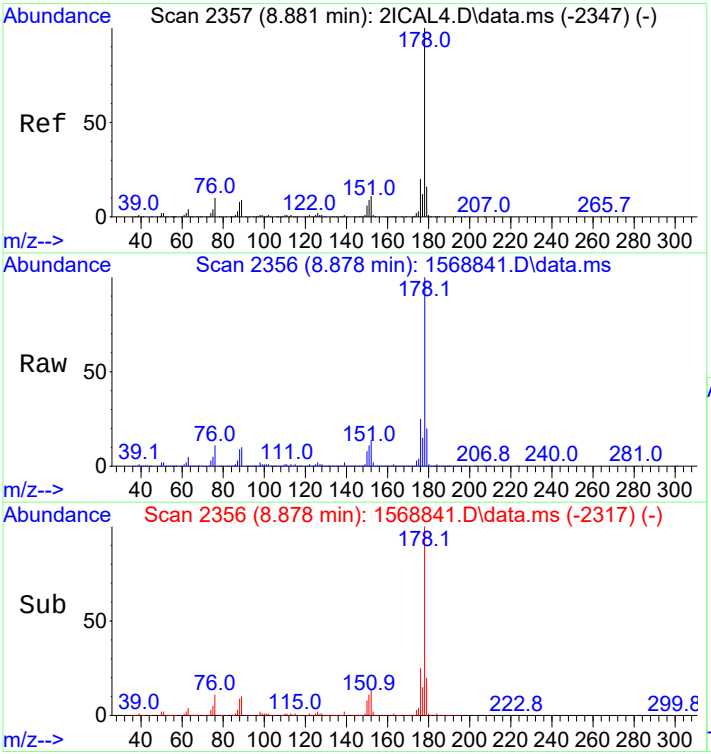



#66
Azobenz&12Diphlhyd
Concen: 10.23 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:182 Resp: 75021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.5 | 49.9 | 109.9# |
| 77 | 2.8 | 339.9 | 399.9# |

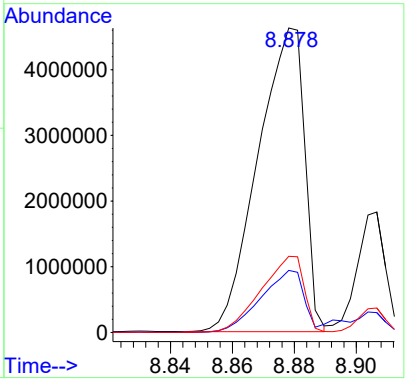


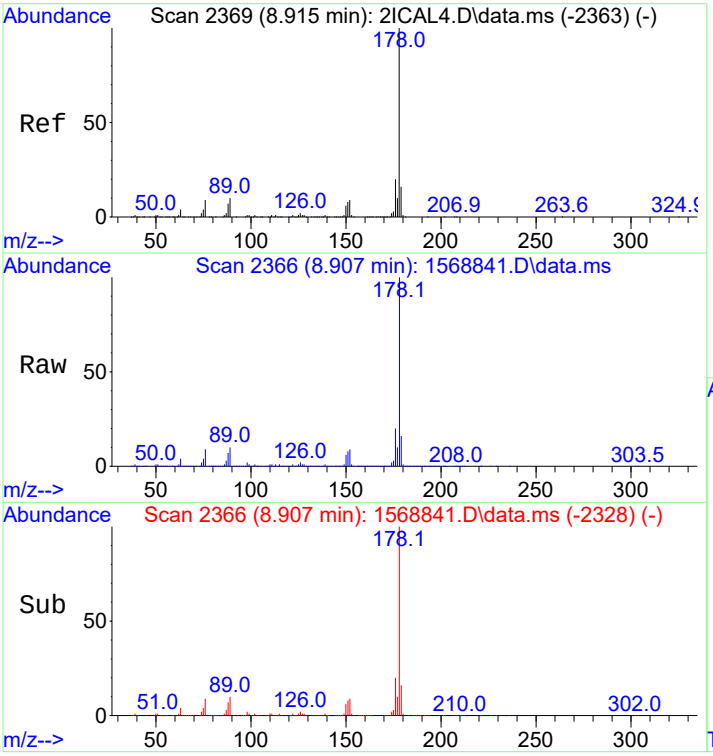




#70
Phenanthrene
Concen: 124.61 ug/mL
RT: 8.878 min Scan# 2356
Delta R.T. 0.011 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:178 Resp: 4841381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 20.4 | 0.0 | 45.9 |
| 176 | 25.0 | 0.0 | 50.4 |

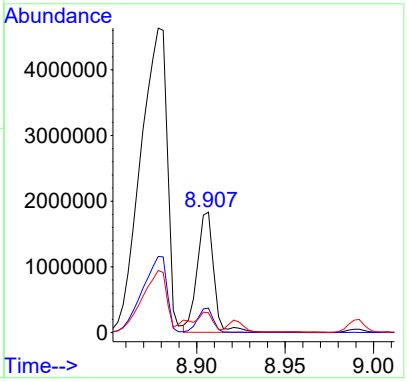


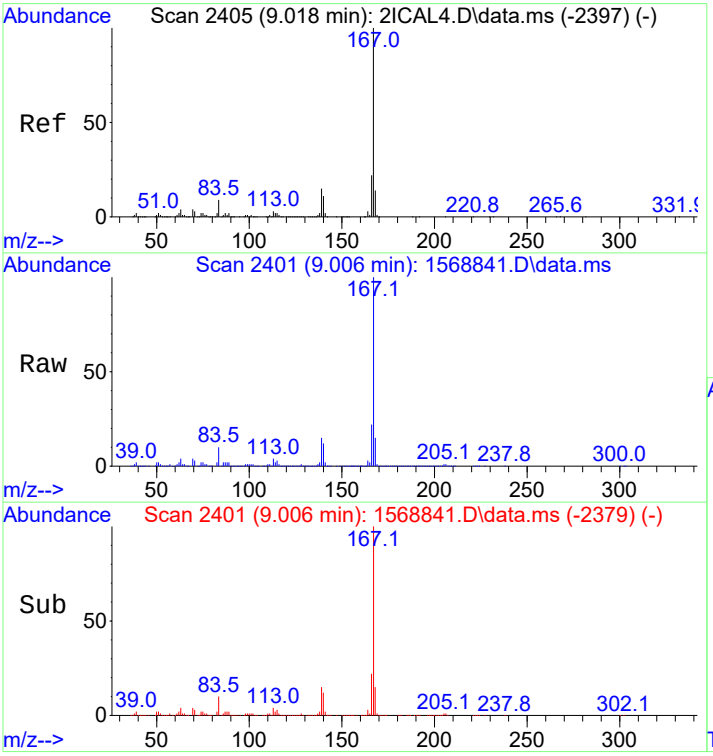



#71
Anthracene
Concen: 30.30 ug/mL
RT: 8.907 min Scan# 2366
Delta R.T. 0.008 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:178 Resp: 1197707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.4 | 0.0 | 49.5 |
| 179 | 16.3 | 0.0 | 45.9 |

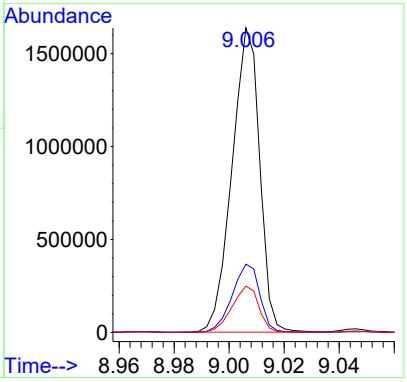


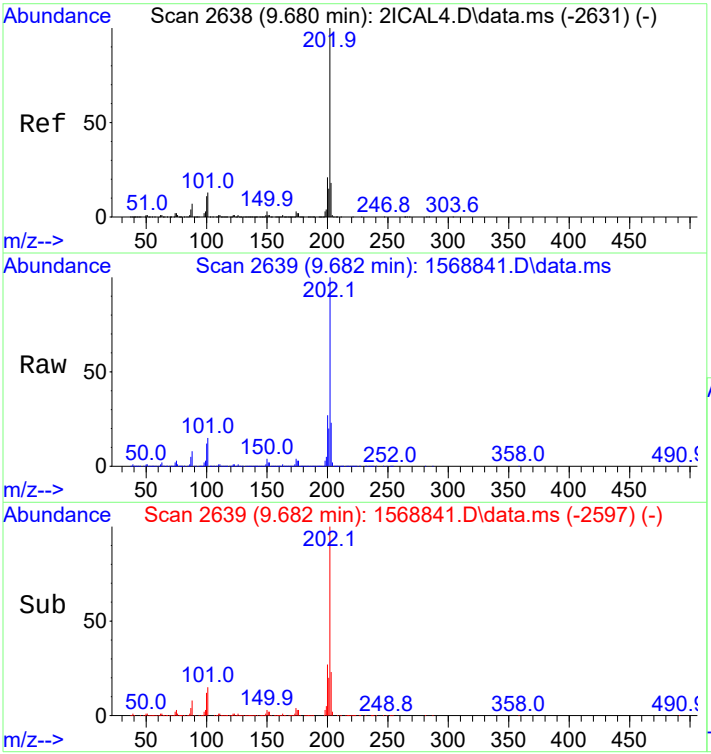




#72
Carbazole
Concen: 34.05 ug/mL
RT: 9.006 min Scan# 2401
Delta R.T. 0.003 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:167 Resp: 1146229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.4 | 0.0 | 52.1 |
| 139 | 15.2 | 0.0 | 44.7 |

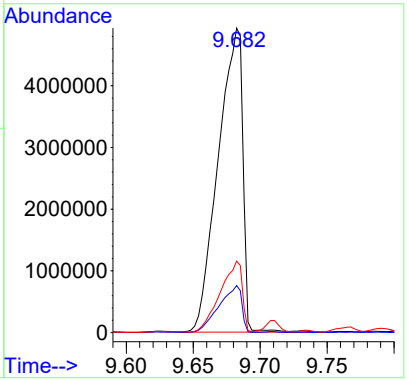


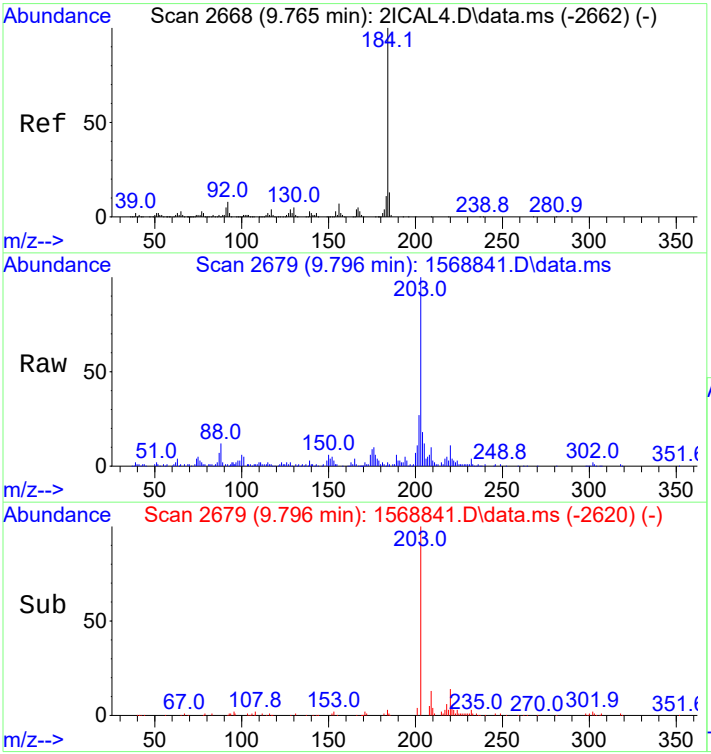



#74
Fluoranthene
Concen: 153.61 ug/mL
RT: 9.682 min Scan# 2639
Delta R.T. 0.020 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:202 Resp: 6301993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 15.4 | 0.0 | 43.0 |
| 203 | 23.3 | 0.0 | 48.2 |

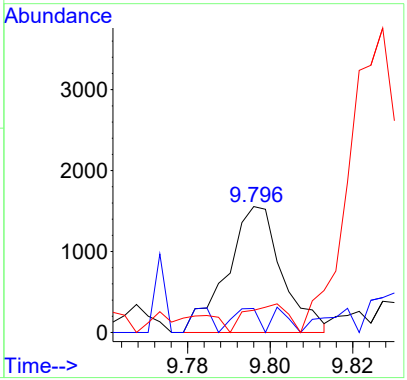


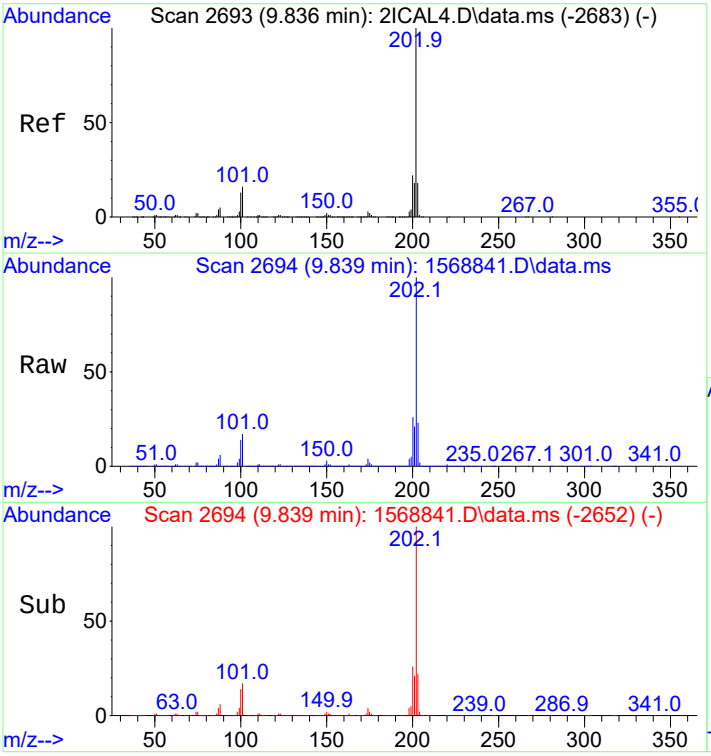




#76
Benzidine
Concen: Below Cal
RT: 9.796 min Scan# 2679
Delta R.T. 0.048 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:184 Resp: 1437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 34.0 | 0.0 | 38.2 |
| 185 | 6.3 | 0.0 | 43.3 |

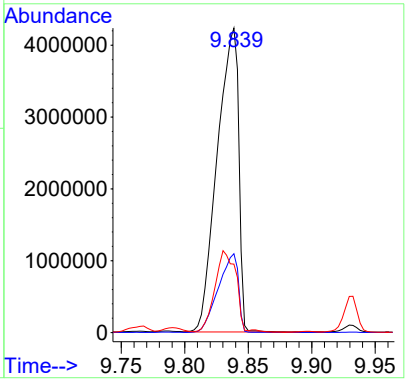


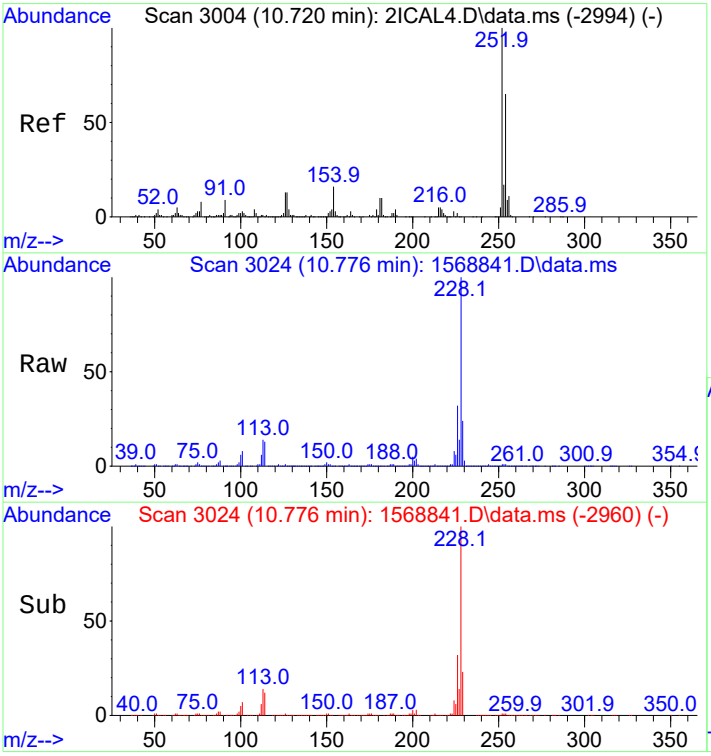



#77
Pyrene
Concen: 125.77 ug/mL
RT: 9.839 min Scan# 2694
Delta R.T. 0.020 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:202 Resp: 4965466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 25.9 | 0.0 | 52.2 |
| 203 | 22.3 | 0.0 | 48.2 |

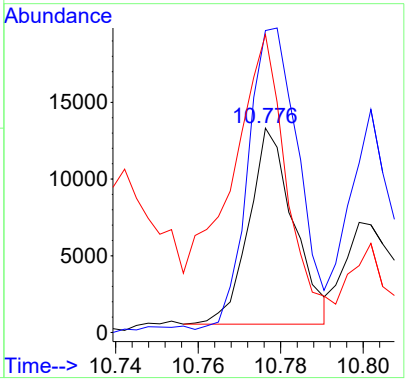


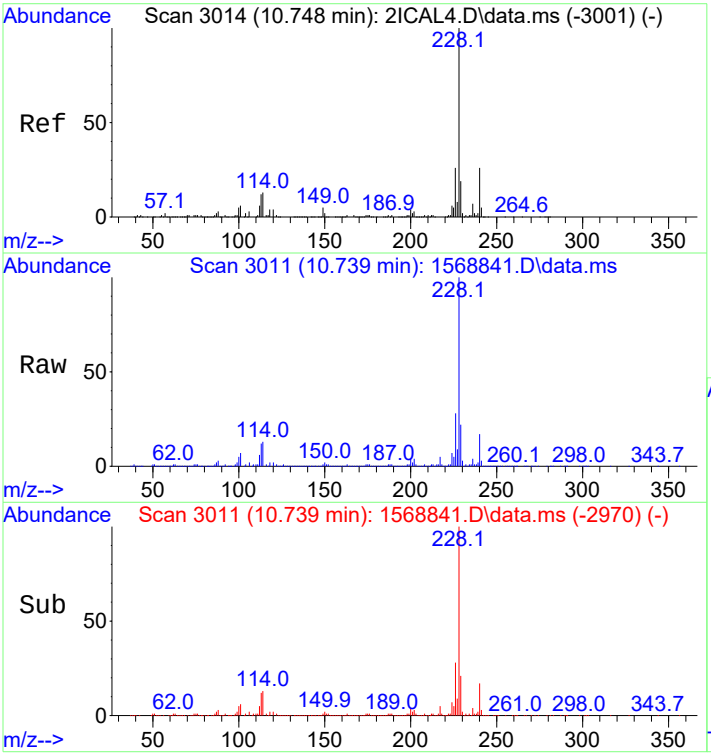




#81
33Diclbnzidin
Concen: 0.94 ug/mL
RT: 10.776 min Scan# 3024
Delta R.T. 0.082 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:252 Resp: 9640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 150.8 | 34.6 | 94.6# |
| 126 | 133.4 | 0.0 | 42.6# |

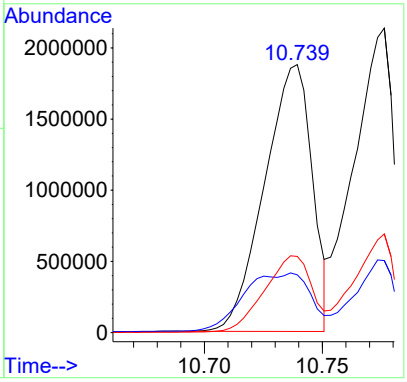


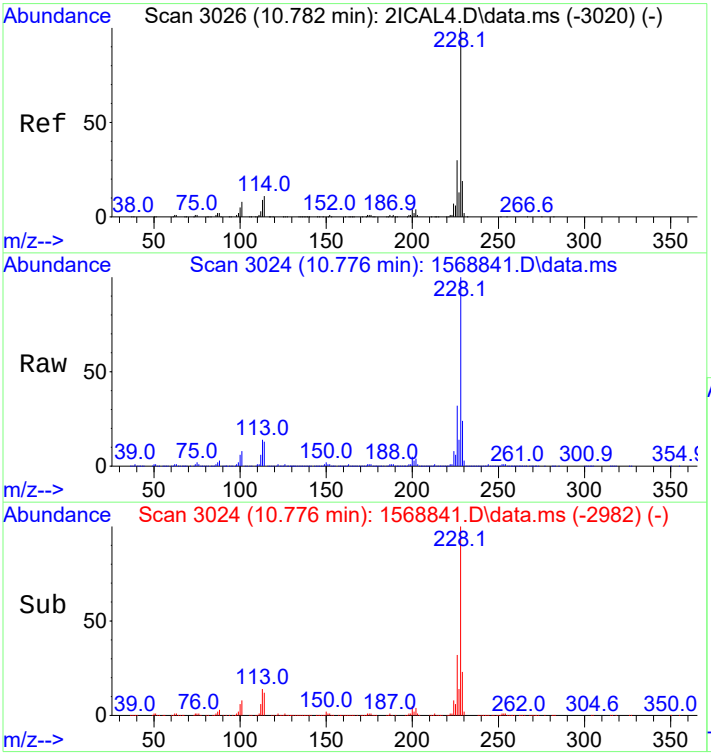



#82
B[a]anthracen
Concen: 70.44 ug/mL
RT: 10.739 min Scan# 3011
Delta R.T. 0.017 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:228 Resp: 2635884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 21.1 | 0.0 | 49.4 |
| 226 | 28.4 | 0.0 | 56.5 |

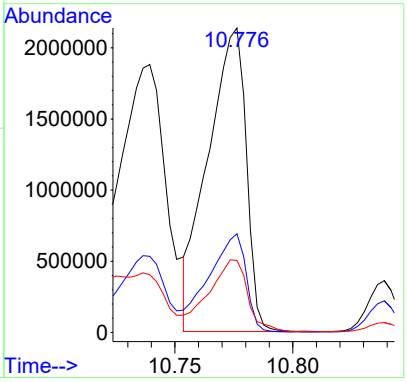


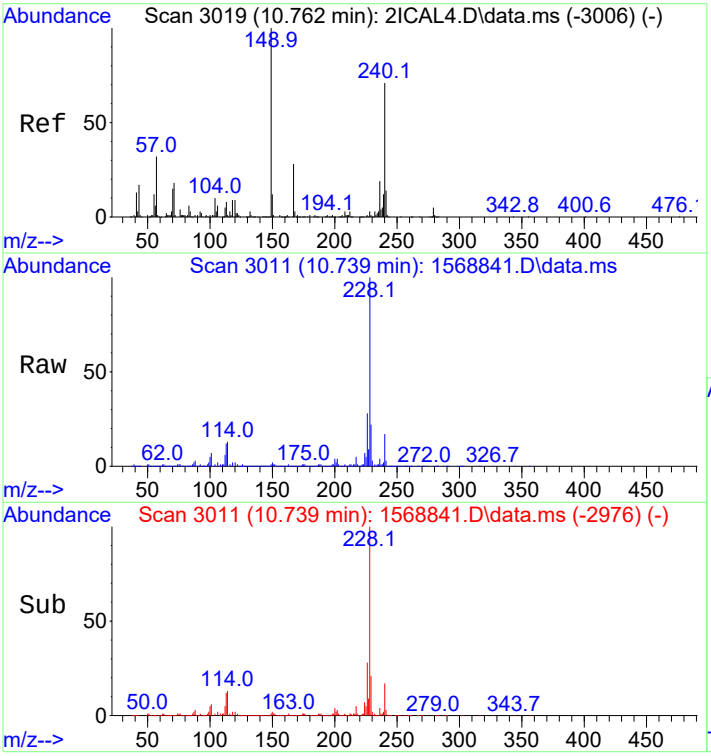




#83
Chrysene
Concen: 68.73 ug/mL
RT: 10.776 min Scan# 3024
Delta R.T. 0.020 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:228 Resp: 2411914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 32.3 | 0.0 | 59.9 |
| 229 | 23.4 | 0.0 | 49.5 |

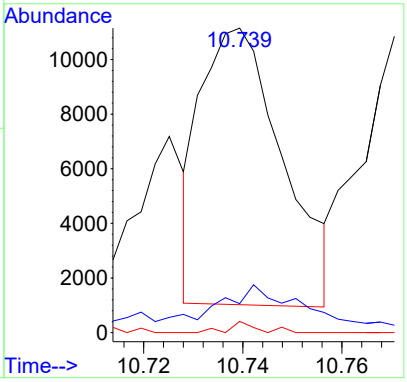


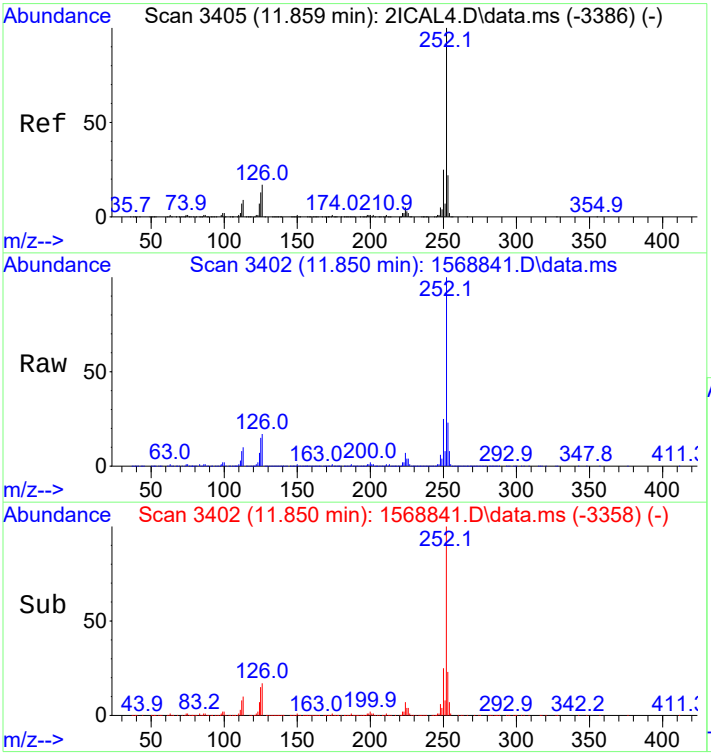



#84
bis2Ethlhxlph
Concen: 0.41 ug/mL
RT: 10.739 min Scan# 3011
Delta R.T. -0.000 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:149 Resp: 11636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 5.5 | 0.0 | 57.9 |
| 279 | 5.7 | 0.0 | 34.9 |

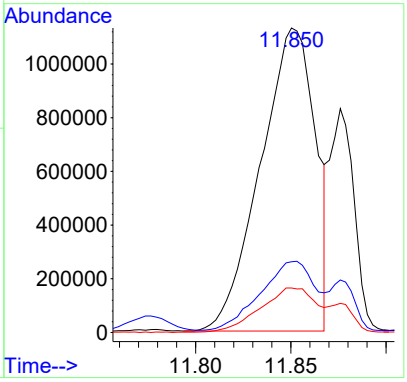


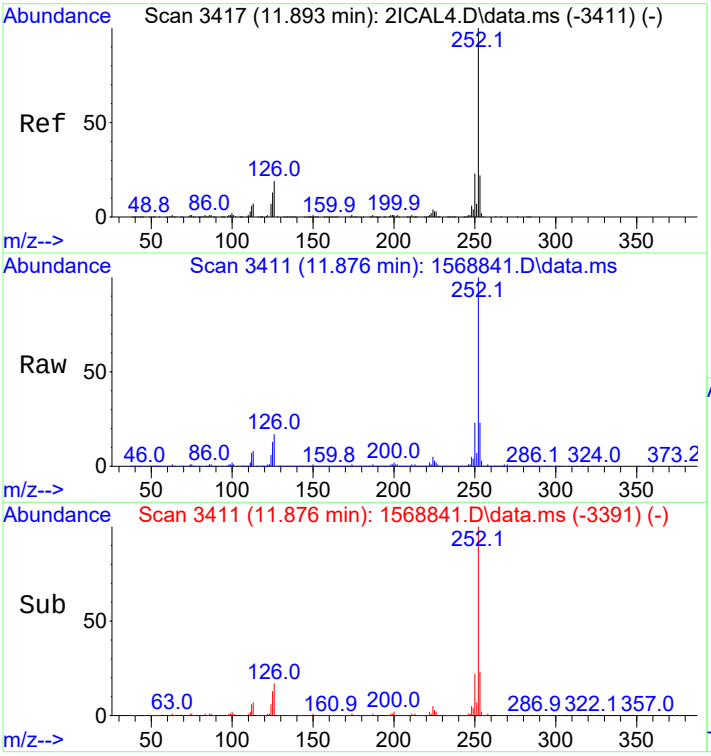




#87
B[b]fluoranth
Concen: 114.67 ug/mL
RT: 11.850 min Scan# 3402
Delta R.T. 0.025 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:252 Resp: 2258295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 0.0 | 52.3 |
| 125 | 14.5 | 0.0 | 43.2 |

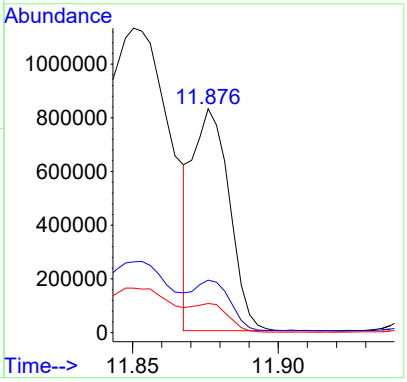


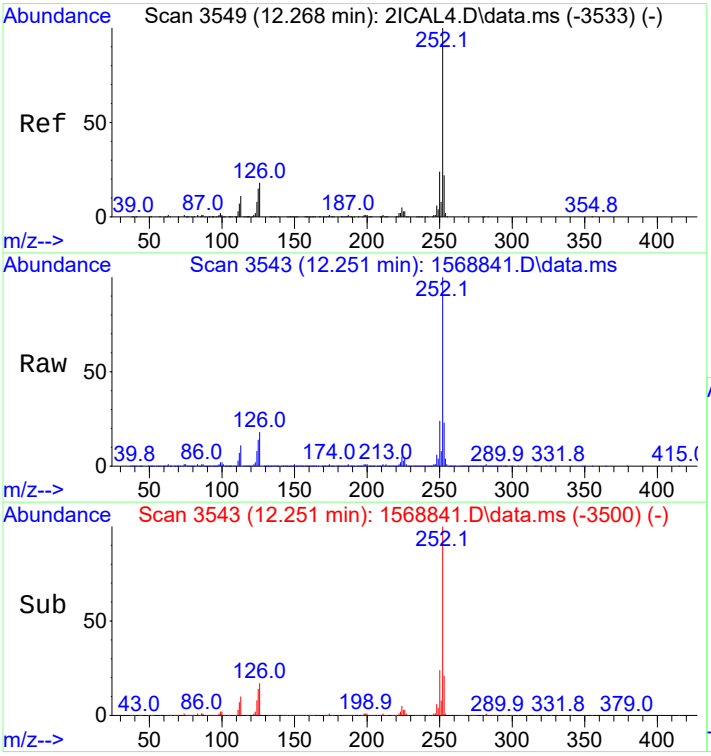



#88
B[k]fluoranth
Concen: 36.56 ug/mL
RT: 11.876 min Scan# 3411
Delta R.T. 0.017 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:252 Resp: 721350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 0.0 | 52.0 |
| 125 | 12.9 | 0.0 | 43.3 |

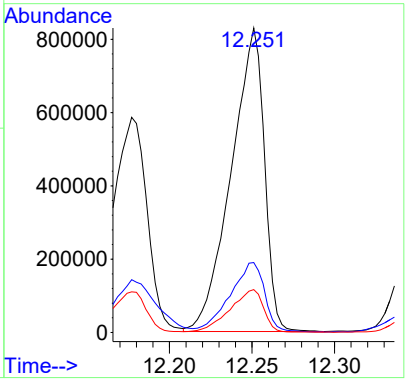


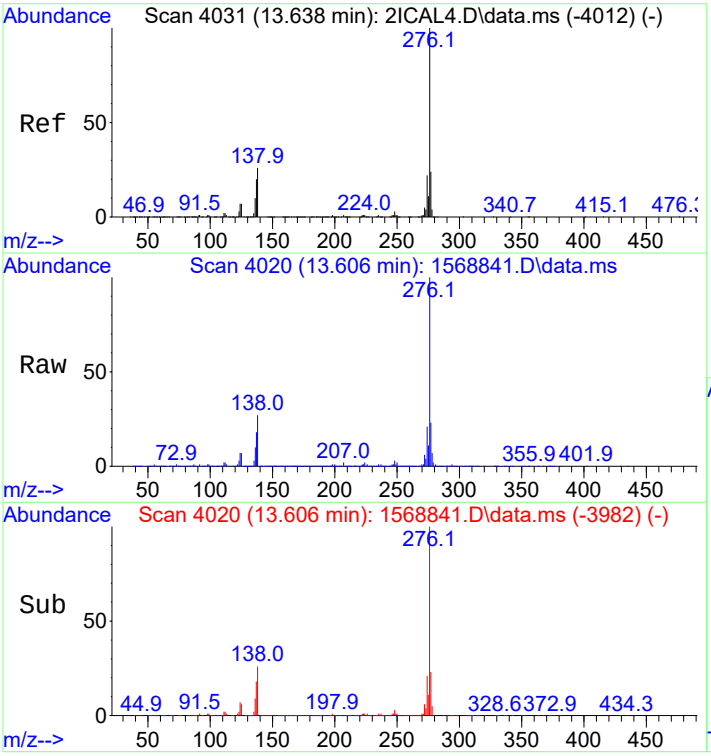




#89
Benz[a]pyrene
Concen: 63.99 ug/mL
RT: 12.251 min Scan# 3543
Delta R.T. 0.023 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:252 Resp: 1158887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 0.0 | 52.3 |
| 125 | 14.0 | 0.0 | 45.1 |

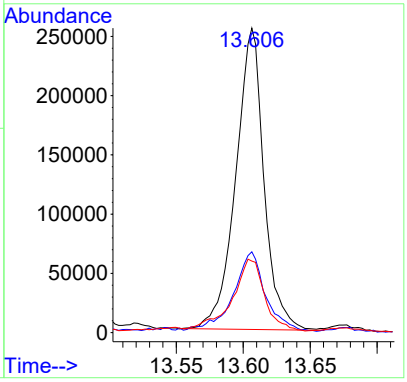


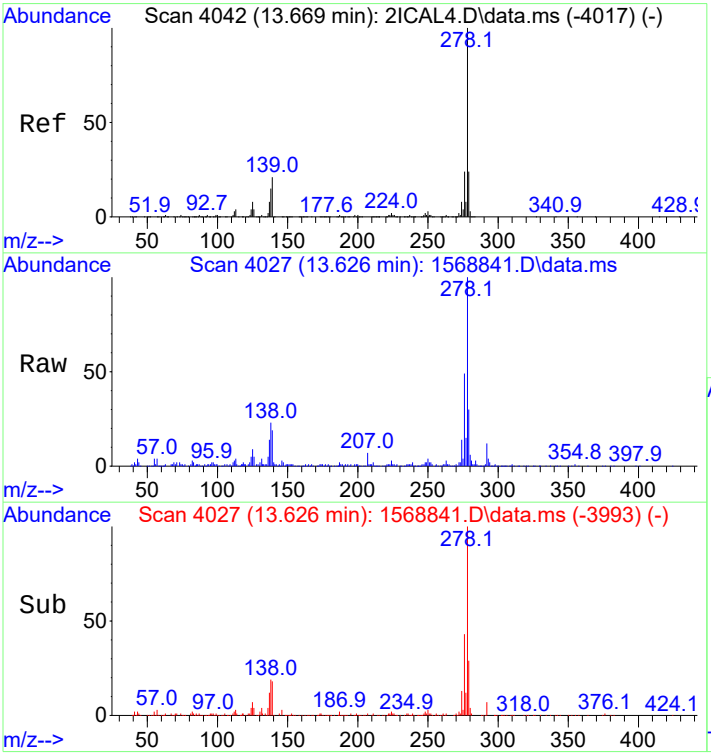



#90
Indeno-pyrene
Concen: 18.69 ug/mL
RT: 13.606 min Scan# 4020
Delta R.T. 0.008 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:276 Resp: 374466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.1 | 0.0 | 55.5 |
| 277 | 22.8 | 0.0 | 54.0 |

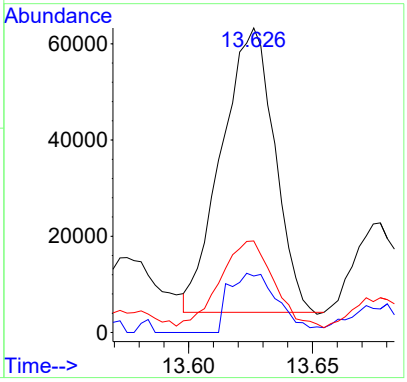


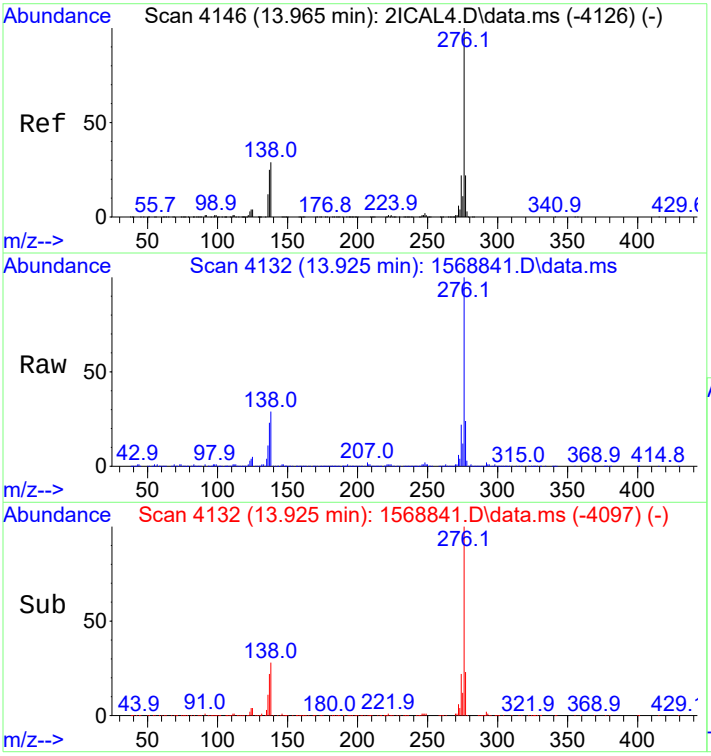




#91
Dib[ah]anthr
Concen: 5.37 ug/mL
RT: 13.626 min Scan# 4027
Delta R.T. -0.003 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:278 Resp: 87899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.2 | 0.0 | 50.9 |
| 279 | 30.5 | 0.0 | 54.4 |

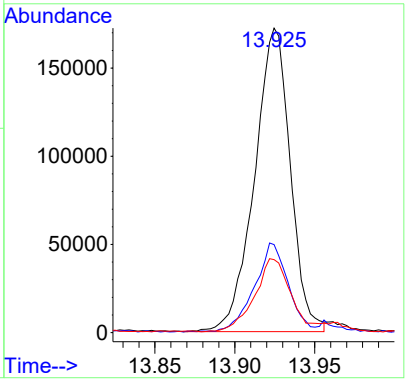





#92
B[ghi]perylen
Concen: 17.12 ug/mL
RT: 13.925 min Scan# 4132
Delta R.T. -0.000 min
Lab File: 1568841.D
Acq: 10 Apr 2025 23:53

Tgt Ion:276 Resp: 268725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.8 | 0.0 | 59.0 |
| 277 | 23.6 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568834.D Vial: 41
Acq On : 11 Apr 2025 00:17 Operator: ALD
Sample : 290730,1568834,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 00:33:49 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

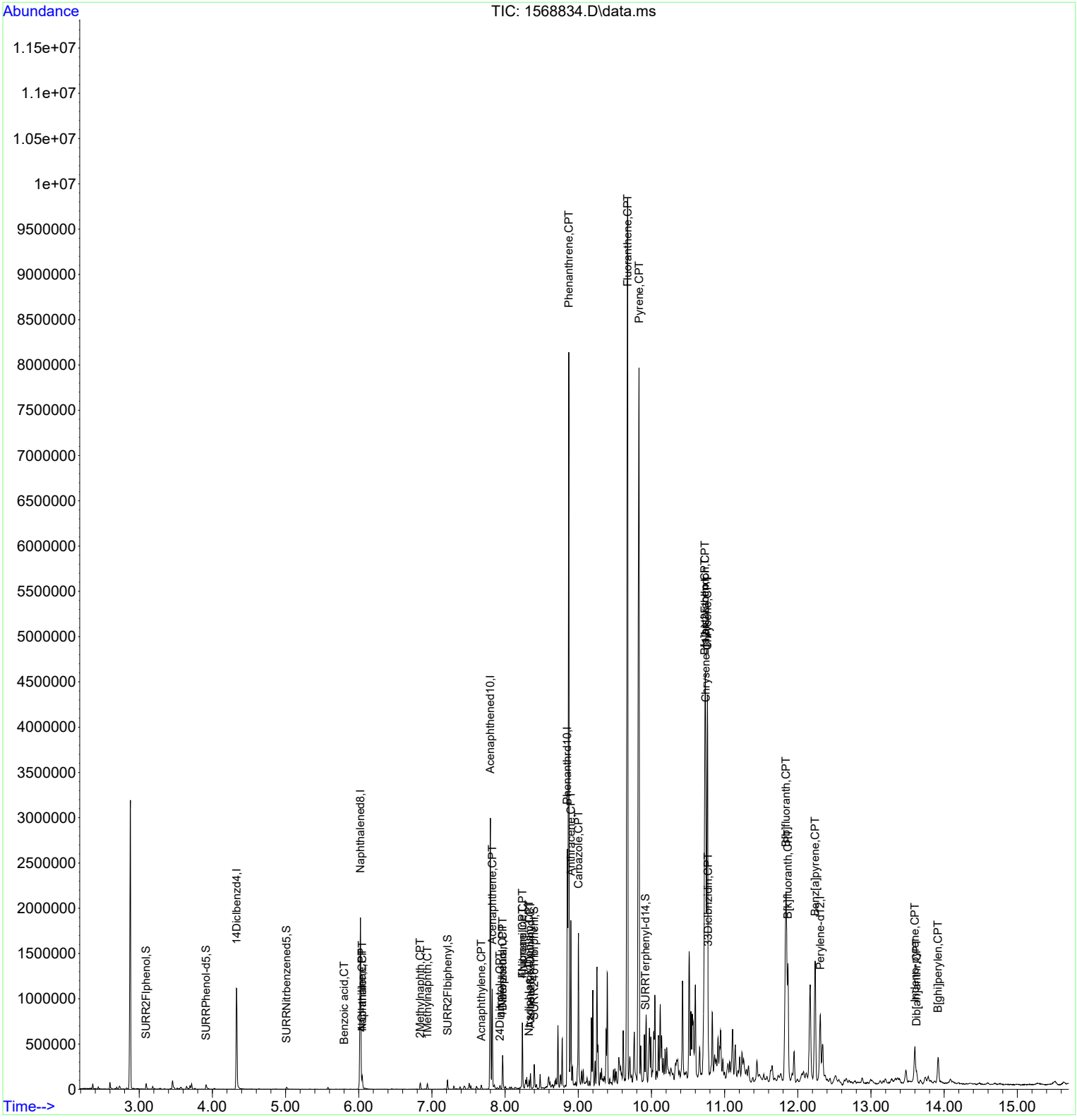
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 14Diclbenzd4 | 4.332 | 152 | 177055 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.023 | 136 | 911137 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 520962 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.850 | 188 | 773971 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.743 | 240 | 603777 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.308 | 264 | 338646 | 20.00 | ug/mL | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) SURR2Flphenol | 3.096 | 112 | 14359 | 3.37 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 3.37% | | | |
| 7) SURRPhenol-d5 | 3.915 | 99 | 19843 | 3.87 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 3.87% | | | |
| 22) SURRNitrbenzened5 | 5.014 | 82 | 8613 | 3.47 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 3.47% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 25475 | 4.10 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.10% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 6402 | 4.59 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.59% | | | |
| 78) SURRTerphenyl-d14 | 9.919 | 244 | 32934 | 5.59 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.59% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 30) Benzoic acid | 5.801 | 122 | 662 | 3.0207 | ug/mL# | 13 |
| 31) Naphthalene | 6.048 | 128 | 55316 | 1.3164 | ug/mL | 96 |
| 32) 4-Cl-aniline | 6.046 | 127 | 6163 | 0.3759 | ug/mL# | 42 |
| 37) 2Methylnaphth | 6.841 | 142 | 18516 | 0.7291 | ug/mL | 94 |
| 38) 1Methylnaphth | 6.938 | 142 | 15286 | 0.5820 | ug/mL | 98 |
| 47) Acnaphthylene | 7.674 | 152 | 12935 | 0.3068 | ug/mL | 95 |
| 50) Acenaphthene | 7.824 | 154 | 184396 | 7.3588 | ug/mL | 96 |
| 53) Dibenzofuran | 7.966 | 168 | 114937 | 3.1763 | ug/mL | 94 |
| 54) 24Dinitrotolu | 7.930 | 165 | 982 | 0.1073 | ug/mL# | 60 |
| 55) 4-Nitrophenol | 7.964 | 65 | 725 | 1.3927 | ug/mL# | 1 |
| 58) Fluorene | 8.236 | 166 | 144991 | 5.2415 | ug/mL | 100 |
| 61) 4Nitroaniline | 8.236 | 138 | 1833 | 0.6015 | ug/mL# | 49 |
| 65) Ntrsdiphlam&Diphlam | 8.327 | 169 | 2953 | 0.1480 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 26867 | 3.7758 | ug/mL# | 1 |
| 70) Phenanthrene | 8.870 | 178 | 2222603 | 58.9433 | ug/mL | 96 |
| 71) Anthracene | 8.898 | 178 | 469051 | 12.2262 | ug/mL | 95 |
| 72) Carbazole | 9.004 | 167 | 451459 | 13.8195 | ug/mL | 99 |
| 74) Fluoranthene | 9.674 | 202 | 3541100 | 88.9335 | ug/mL | 96 |
| 77) Pyrene | 9.830 | 202 | 2840037 | 74.0542 | ug/mL | 96 |
| 81) 33Diclbnzidin | 10.774 | 252 | 6023 | 0.5144 | ug/mL# | 1 |
| 82) B[a]anthracen | 10.731 | 228 | 1507911 | 41.4821 | ug/mL | 98 |
| 83) Chrysene | 10.765 | 228 | 1447995 | 42.4736 | ug/mL | 96 |
| 84) bis2Ethlhxlph | 10.734 | 149 | 3190 | 0.1153 | ug/mL | 79 |
| 87) B[b]fluoranth | 11.839 | 252 | 1324868 | 73.8554 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.865 | 252 | 442019 | 24.5935 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.237 | 252 | 664316 | 40.2685 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.601 | 276 | 204612 | 11.2137 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.624 | 278 | 50741 | 3.4020 | ug/mL | 99 |
| 92) B[ghi]perylen | 13.916 | 276 | 149249 | 10.4401 | ug/mL | 97 |

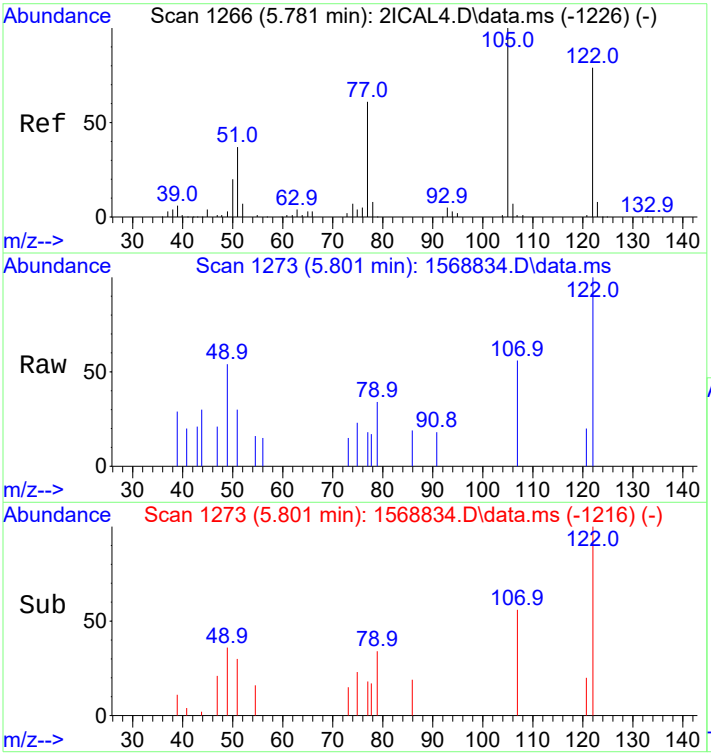
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568834.D Vial: 41
Acq On : 11 Apr 2025 00:17 Operator: ALD
Sample : 290730,1568834,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 00:33:49 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

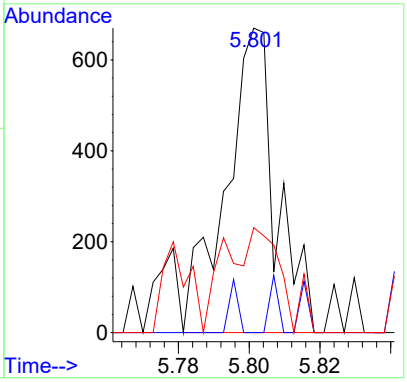


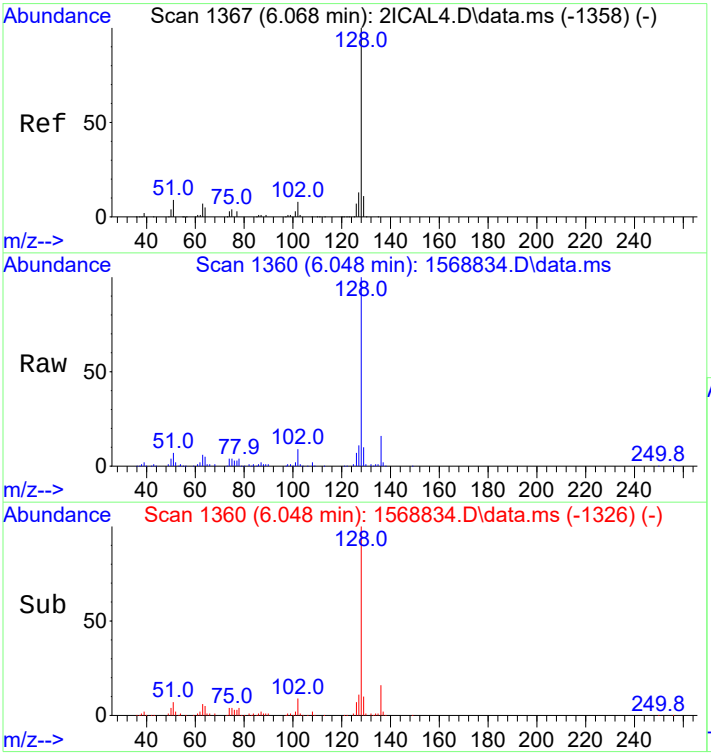



#30
Benzoic acid
Concen: 3.02 ug/mL
RT: 5.801 min Scan# 1273
Delta R.T. 0.031 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:122 Resp: 662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 0.0 | 96.0 | 156.0# |
| 77 | 34.5 | 46.6 | 106.6# |

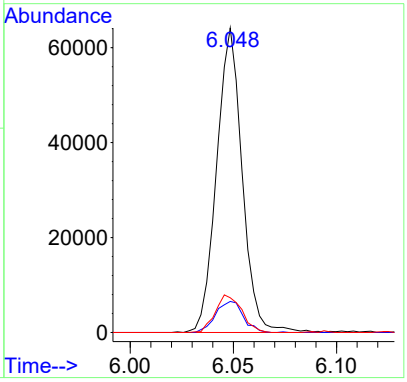


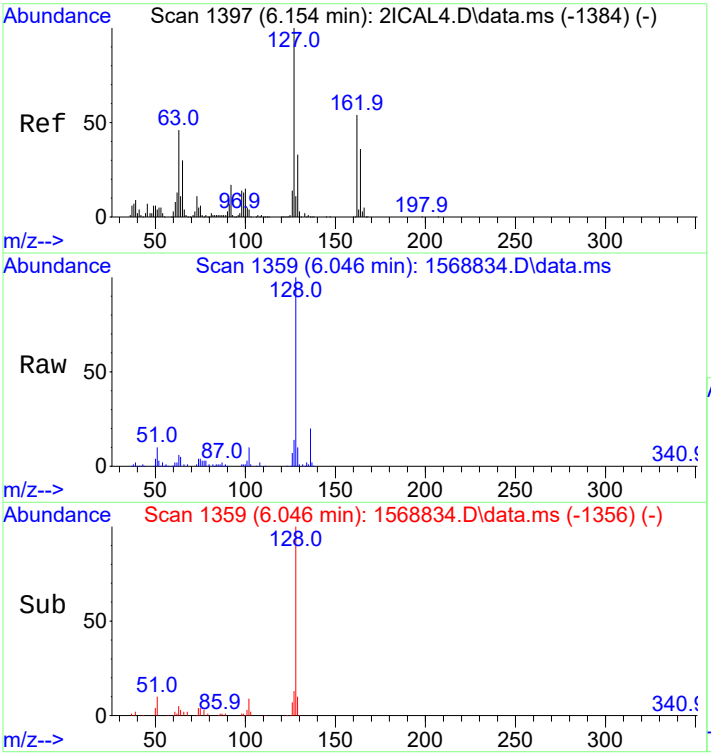




#31
Naphthalene
Concen: 1.32 ug/mL
RT: 6.048 min Scan# 1360
Delta R.T. -0.003 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:128 Resp: 55316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.2 | 0.0 | 41.0 |
| 127 | 11.4 | 0.0 | 43.3 |

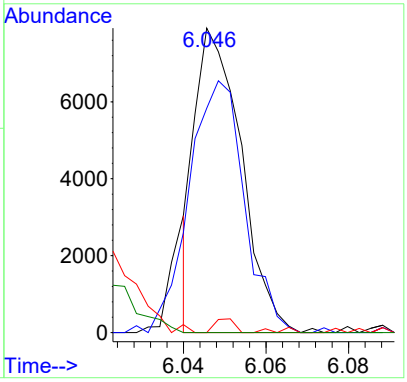


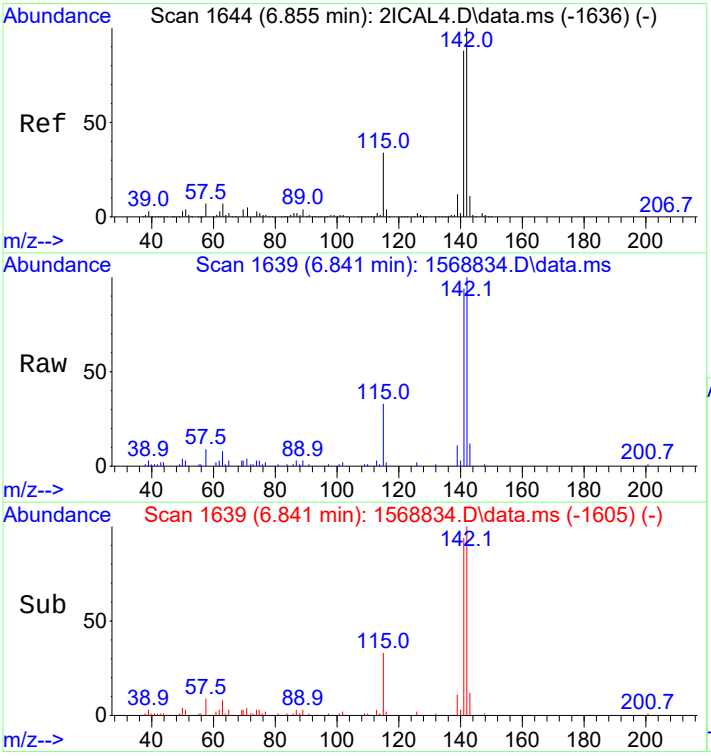



#32
4-Cl-aniline
Concen: 0.38 ug/mL
RT: 6.046 min Scan# 1359
Delta R.T. -0.091 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:127 Resp: 6163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 72.1 | 3.1 | 63.1# |
| 65 | 0.0 | 0.2 | 60.2# |
| 92 | 0.0 | 0.0 | 46.7 |

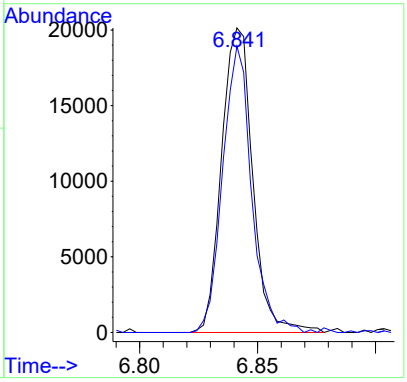


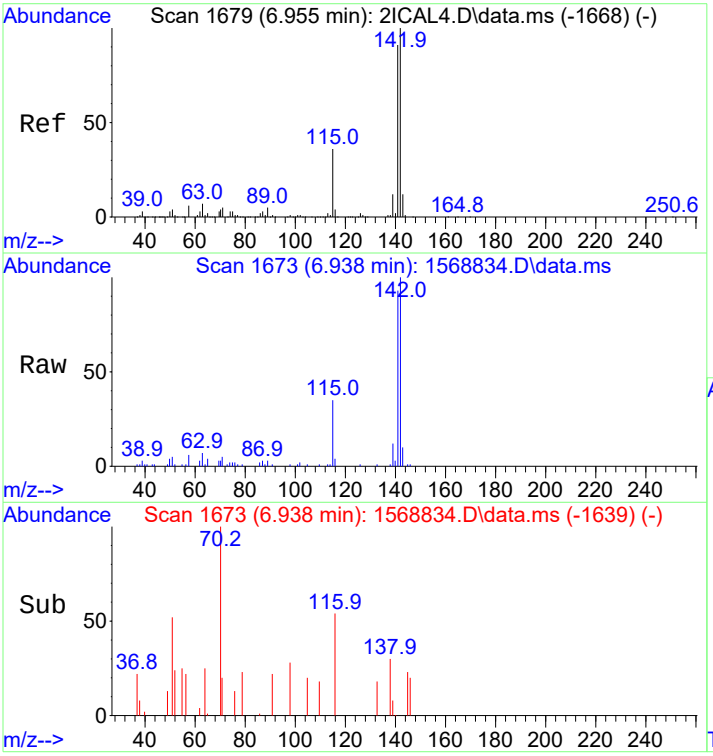




#37
2Methylnaphth
Concen: 0.73 ug/mL
RT: 6.841 min Scan# 1639
Delta R.T. -0.003 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:142 Resp: 18516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 94.0 | 58.0 | 118.0 |

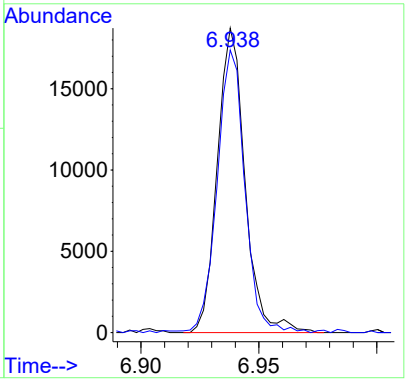


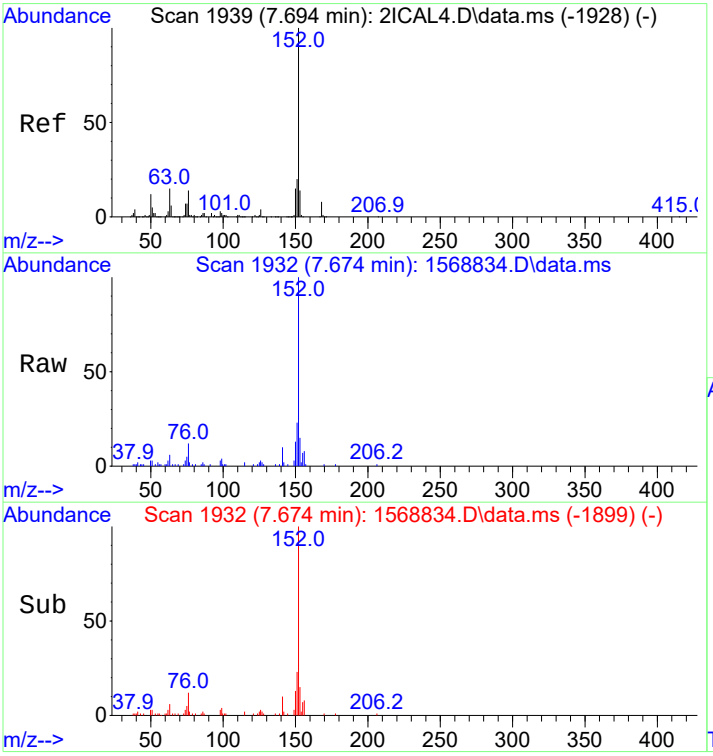



#38
1Methylnaphth
Concen: 0.58 ug/mL
RT: 6.938 min Scan# 1673
Delta R.T. -0.003 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:142 Resp: 15286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.3 | 60.7 | 120.7 |

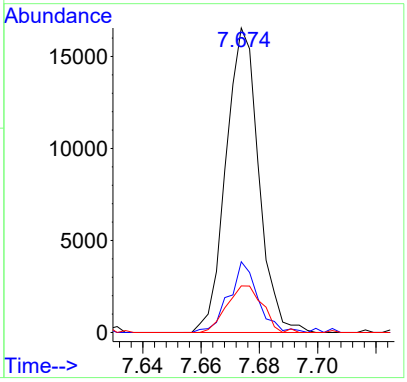


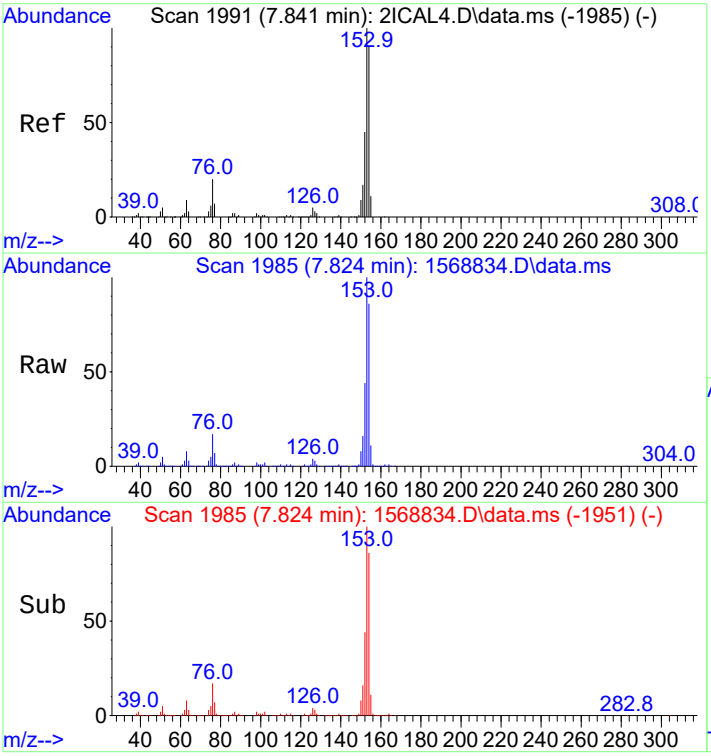




#47
Acnaphthylene
Concen: 0.31 ug/mL
RT: 7.674 min Scan# 1932
Delta R.T. -0.006 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:152 Resp: 12935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 23.2 | 0.0 | 50.3 |
| 153 | 15.3 | 0.0 | 44.4 |

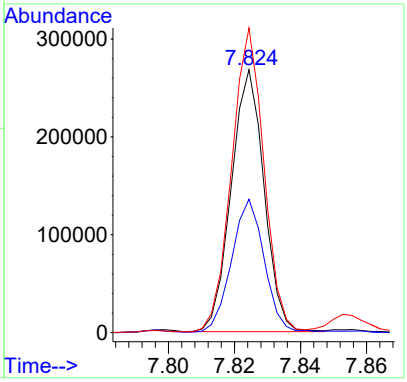


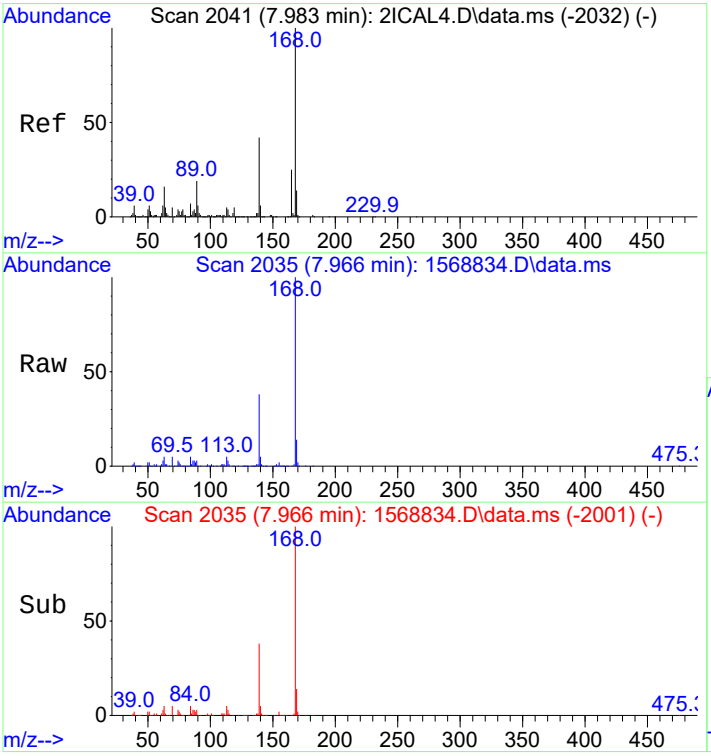



#50
Acenaphthene
Concen: 7.36 ug/mL
RT: 7.824 min Scan# 1985
Delta R.T. -0.003 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:154 Resp: 184396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 50.8 | 20.0 | 80.0 |
| 153 | 116.0 | 80.7 | 140.7 |

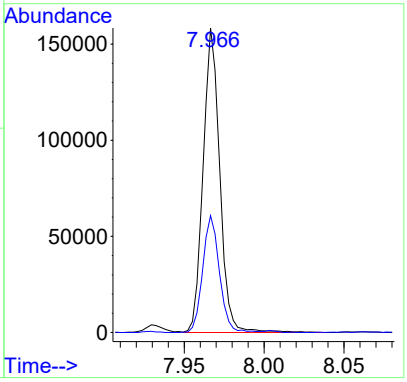


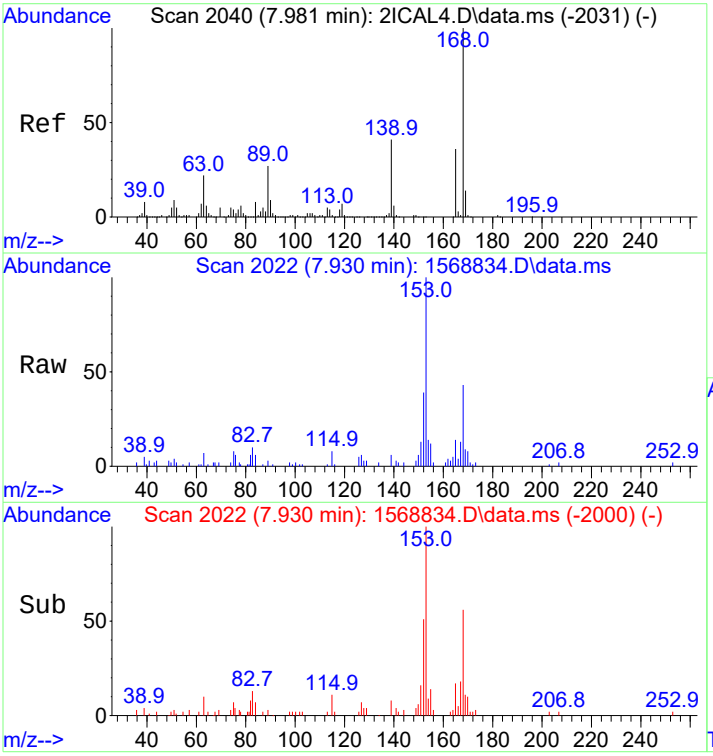




#53
Dibenzofuran
Concen: 3.18 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.003 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:168 Resp: 114937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 38.4 | 11.9 | 71.9 |

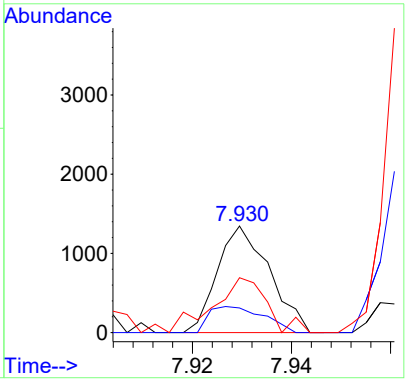


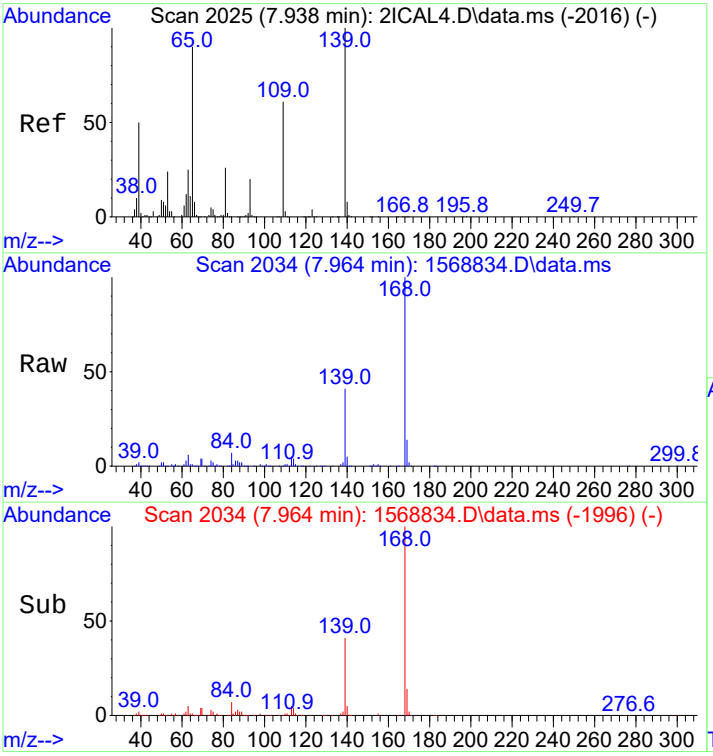



#54
24Dinitrotolu
Concen: 0.11 ug/mL
RT: 7.930 min Scan# 2022
Delta R.T. -0.037 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:165 Resp: 982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 23.1 | 46.1 | 106.1# |
| 63 | 51.5 | 32.6 | 92.6 |

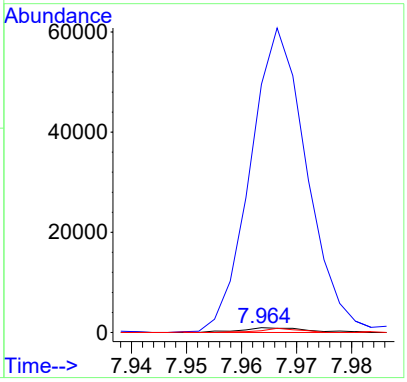


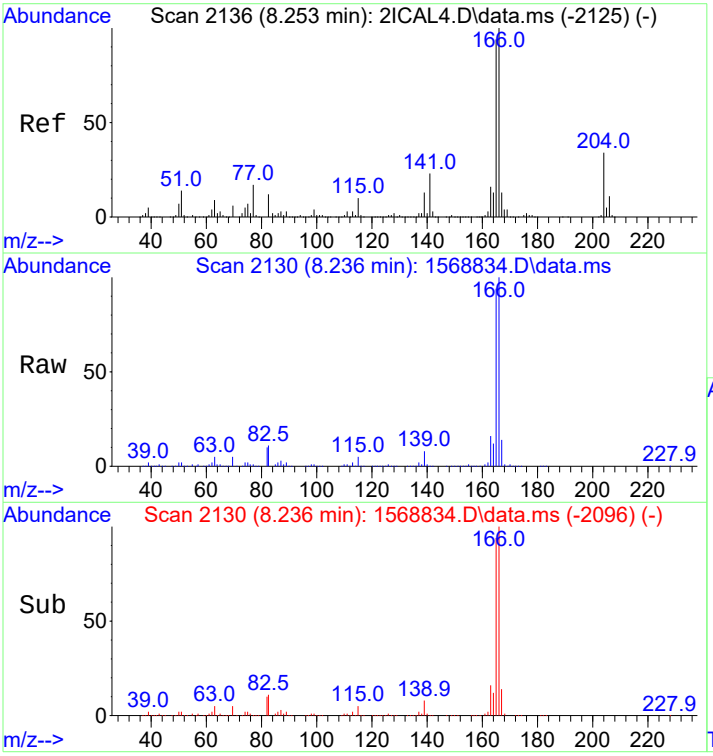




#55
4-Nitrophenol
Concen: 1.39 ug/mL
RT: 7.964 min Scan# 2034
Delta R.T. 0.043 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion: 65 Resp: 725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 5238.1 | 80.5 | 140.5# |
| 109 | 37.2 | 37.6 | 97.6# |

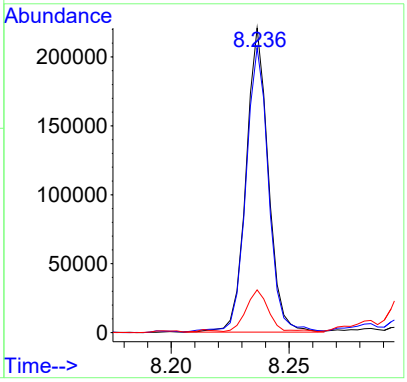


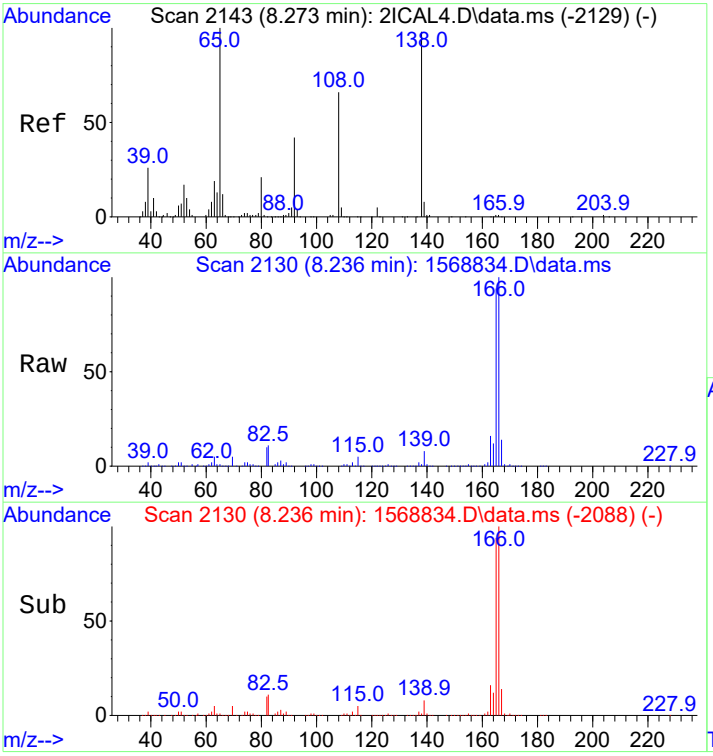



#58
Fluorene
Concen: 5.24 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:166 Resp: 144991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 93.6 | 63.6 | 123.6 |
| 167 | 13.8 | 0.0 | 43.3 |

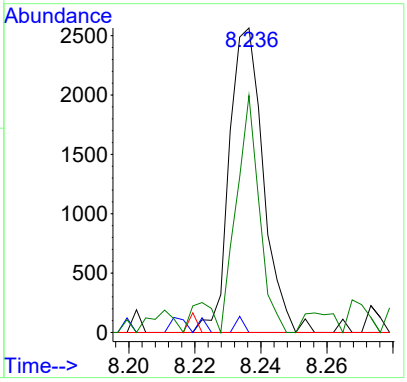


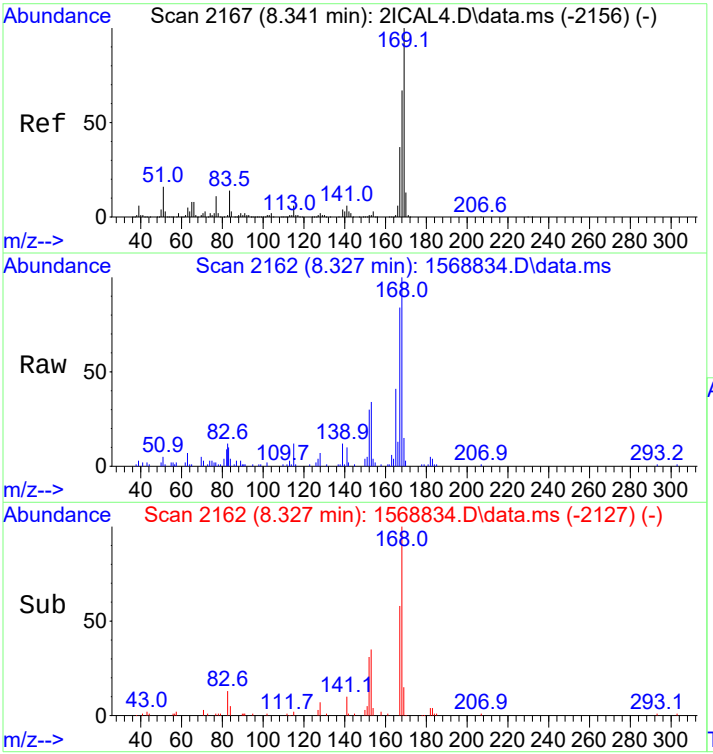




#61
4Nitroaniline
Concen: 0.60 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.020 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:138 Resp: 1833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 77.8 | 71.1 | 131.1 |

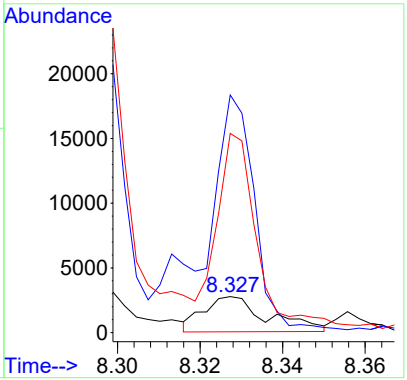


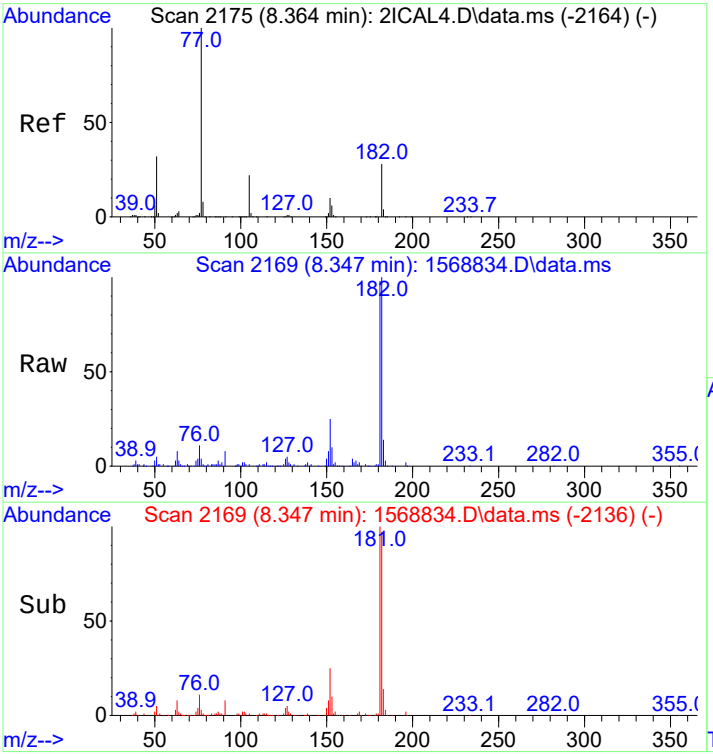



#65
Ntrsdiphlam&Diphlam
Concen: 0.15 ug/mL
RT: 8.327 min Scan# 2162
Delta R.T. 0.000 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:169 Resp: 2953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 636.2 | 37.2 | 97.2# |
| 167 | 506.3 | 6.9 | 66.9# |

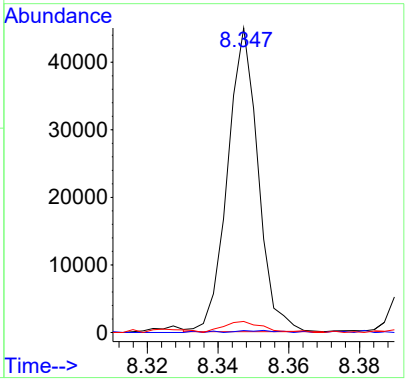


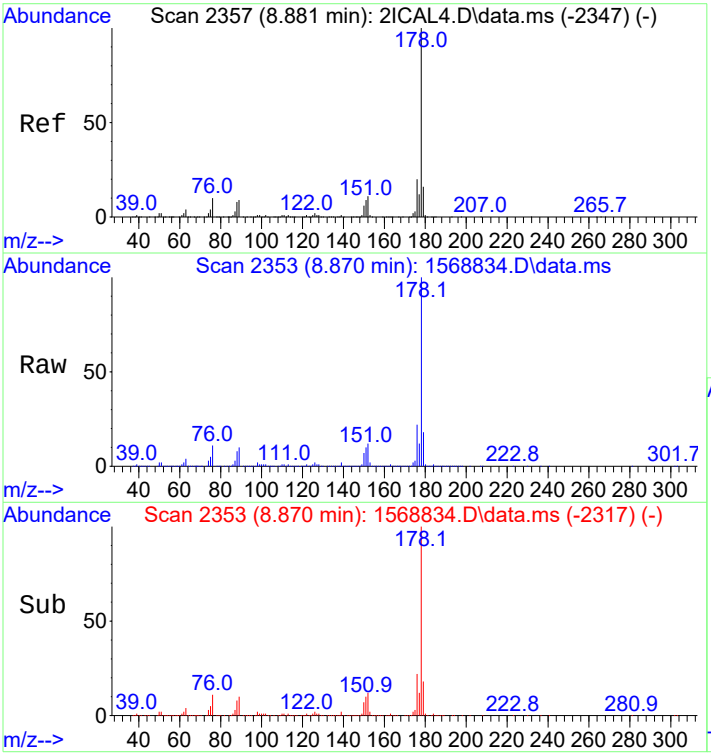




#66
Azobenz&12Diphlhyd
Concen: 3.78 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:182 Resp: 26867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.6 | 49.9 | 109.9# |
| 77 | 3.6 | 339.9 | 399.9# |

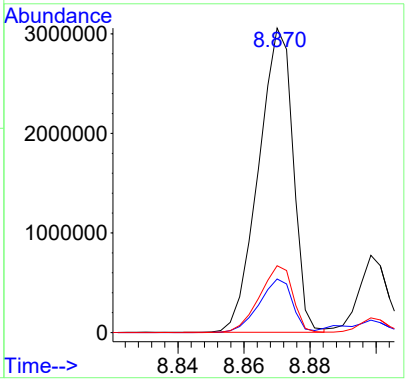


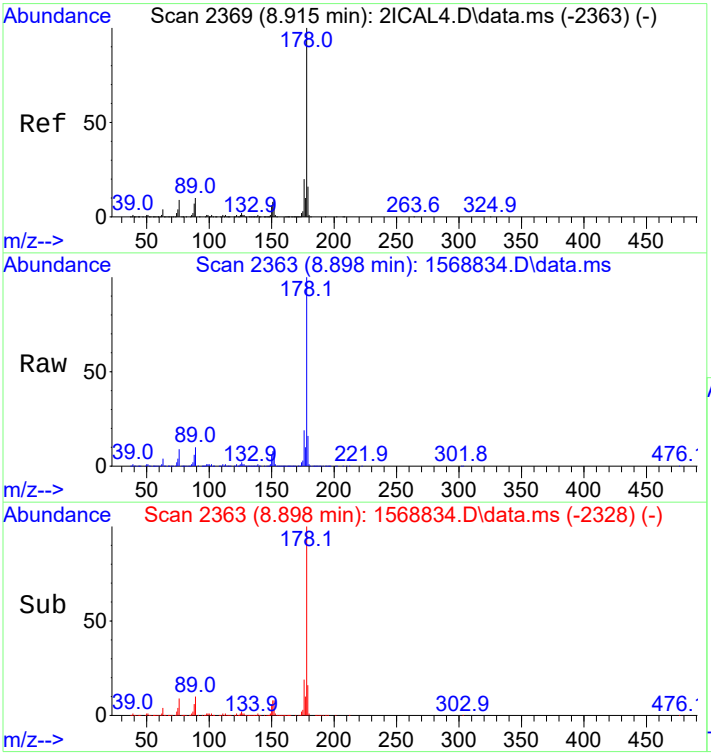



#70
Phenanthrene
Concen: 58.94 ug/mL
RT: 8.870 min Scan# 2353
Delta R.T. 0.003 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:178 Resp: 2222603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 17.6 | 0.0 | 45.9 |
| 176 | 22.0 | 0.0 | 50.4 |

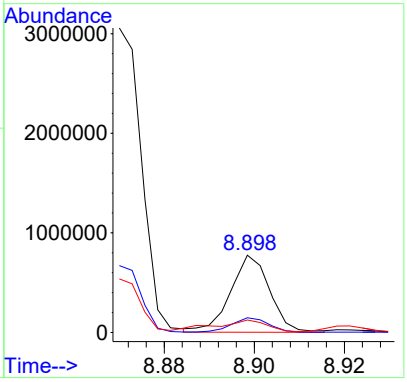


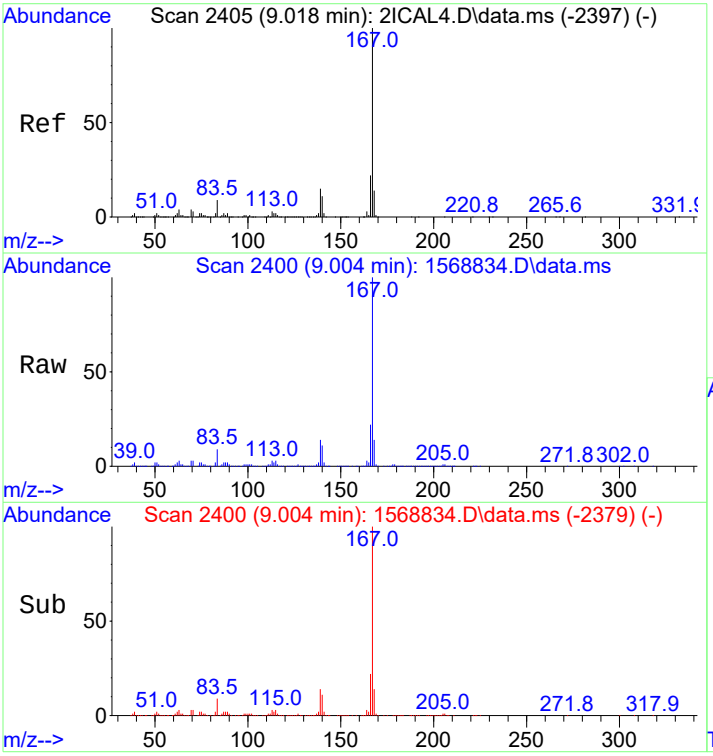




#71
Anthracene
Concen: 12.23 ug/mL
RT: 8.898 min Scan# 2363
Delta R.T. 0.000 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:178 Resp: 469051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.1 | 0.0 | 49.5 |
| 179 | 11.4 | 0.0 | 45.9 |

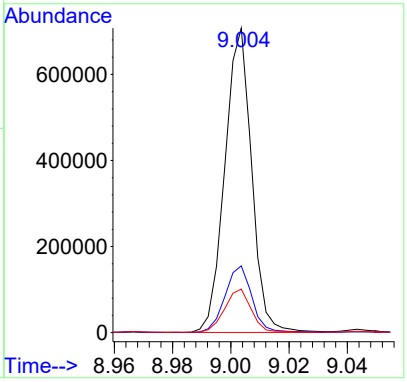


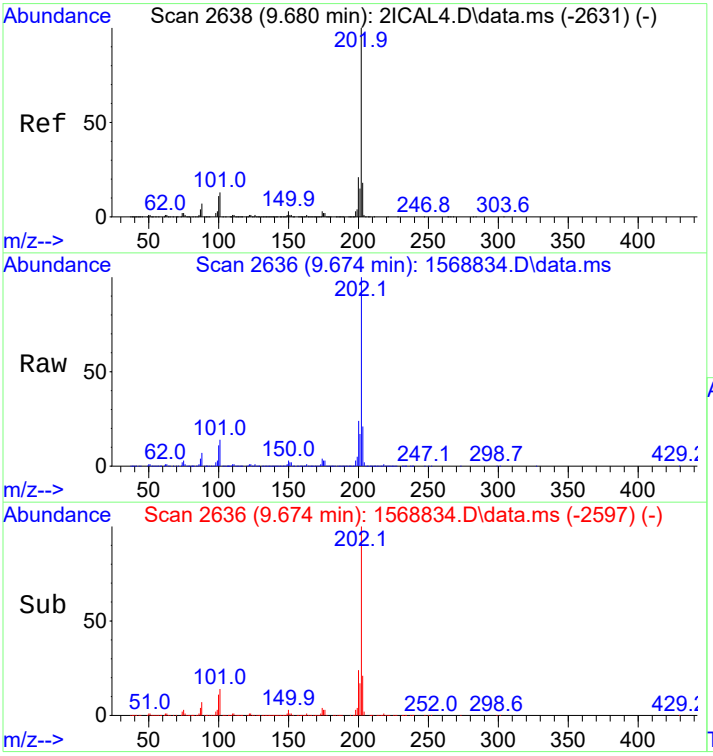



#72
Carbazole
Concen: 13.82 ug/mL
RT: 9.004 min Scan# 2400
Delta R.T. 0.000 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:167 Resp: 451459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.9 | 0.0 | 52.1 |
| 139 | 14.2 | 0.0 | 44.7 |

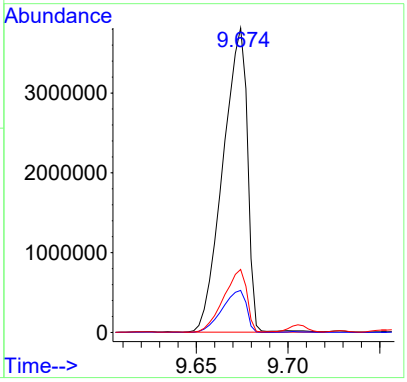


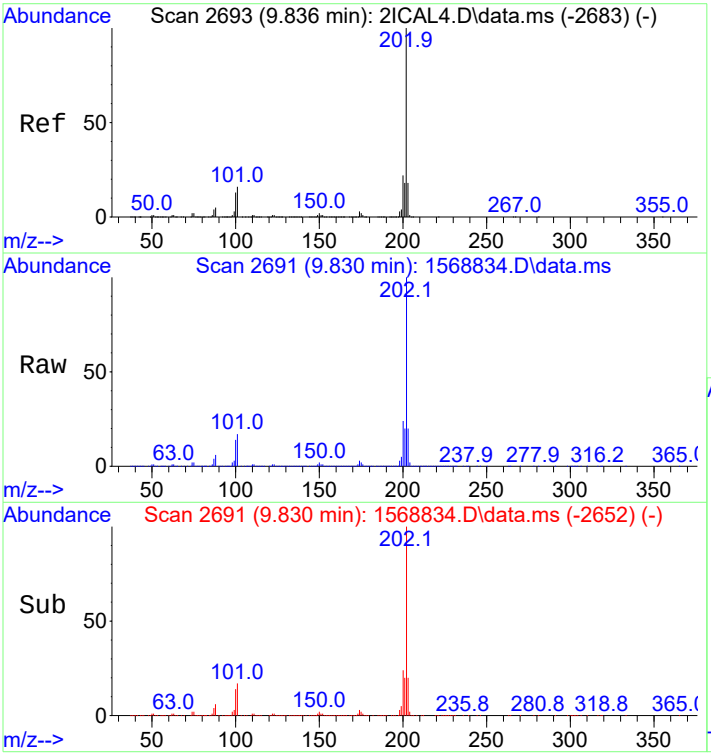




#74
Fluoranthene
Concen: 88.93 ug/mL
RT: 9.674 min Scan# 2636
Delta R.T. 0.011 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:202 Resp: 3541100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.8 | 0.0 | 43.0 |
| 203 | 20.7 | 0.0 | 48.2 |

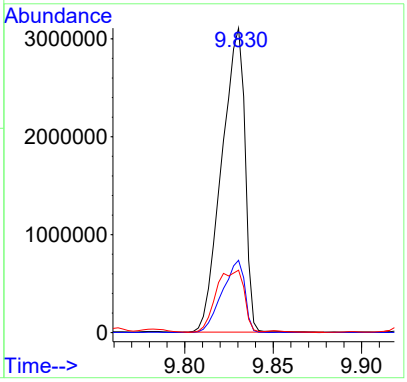


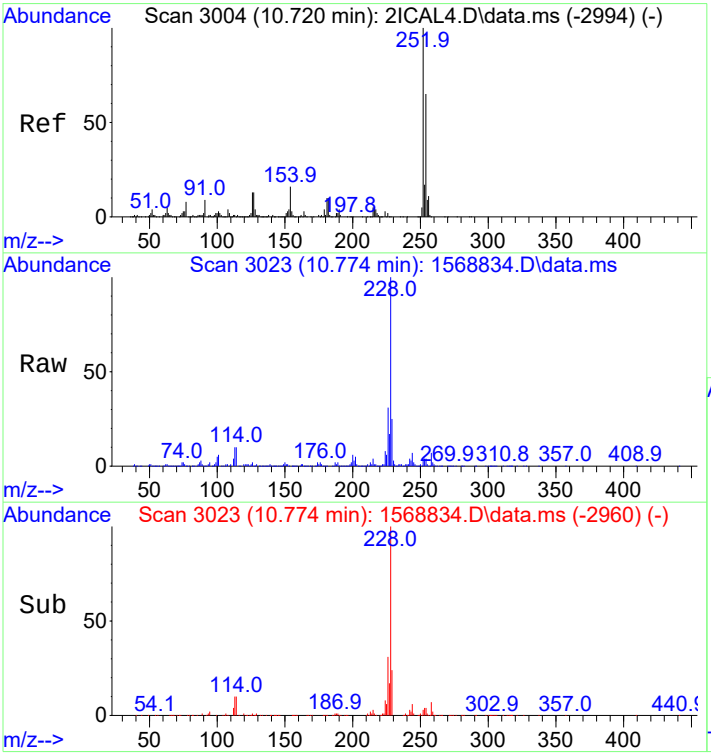



#77
Pyrene
Concen: 74.05 ug/mL
RT: 9.830 min Scan# 2691
Delta R.T. 0.012 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:202 Resp: 2840037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 23.7 | 0.0 | 52.2 |
| 203 | 20.4 | 0.0 | 48.2 |

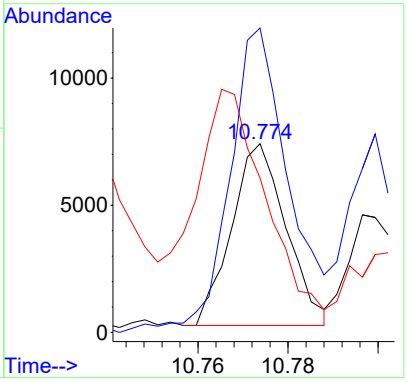


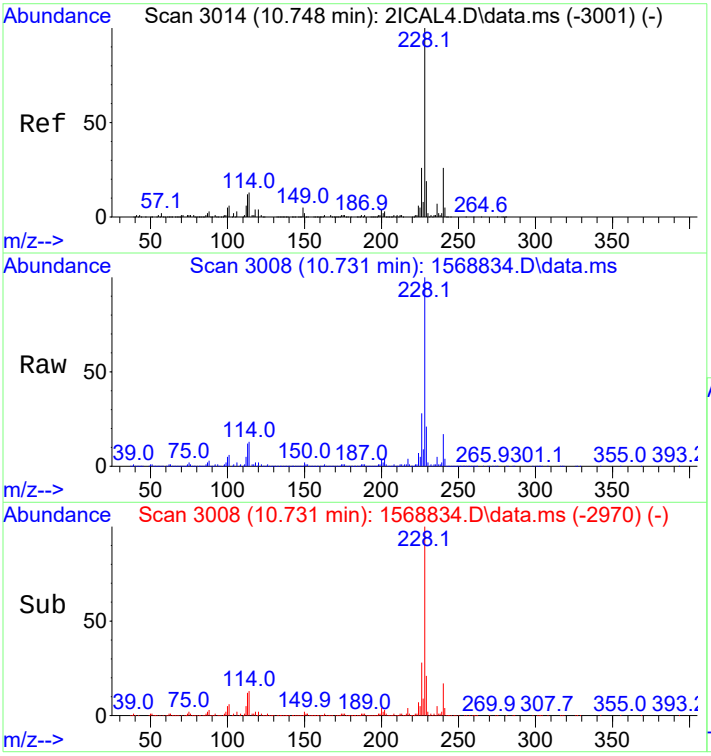




#81
33Diclbnzidin
Concen: 0.51 ug/mL
RT: 10.774 min Scan# 3023
Delta R.T. 0.080 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:252 Resp: 6023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 162.4 | 34.6 | 94.6# |
| 126 | 72.5 | 0.0 | 42.6# |

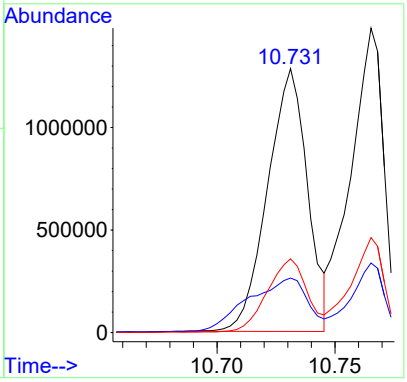


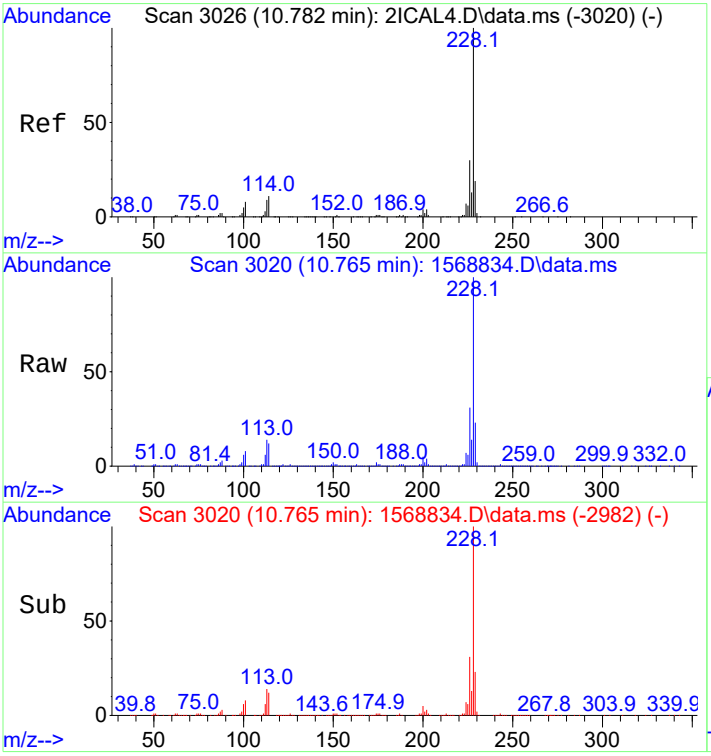



#82
B[a]anthracen
Concen: 41.48 ug/mL
RT: 10.731 min Scan# 3008
Delta R.T. 0.009 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:228 Resp: 1507911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.3 | 0.0 | 49.4 |
| 226 | 27.9 | 0.0 | 56.5 |

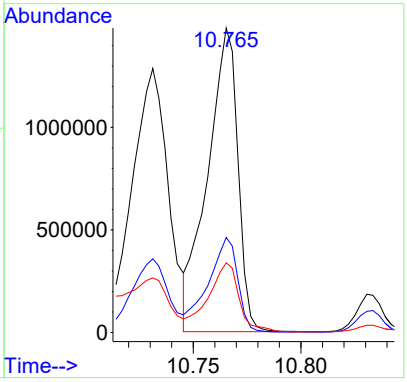


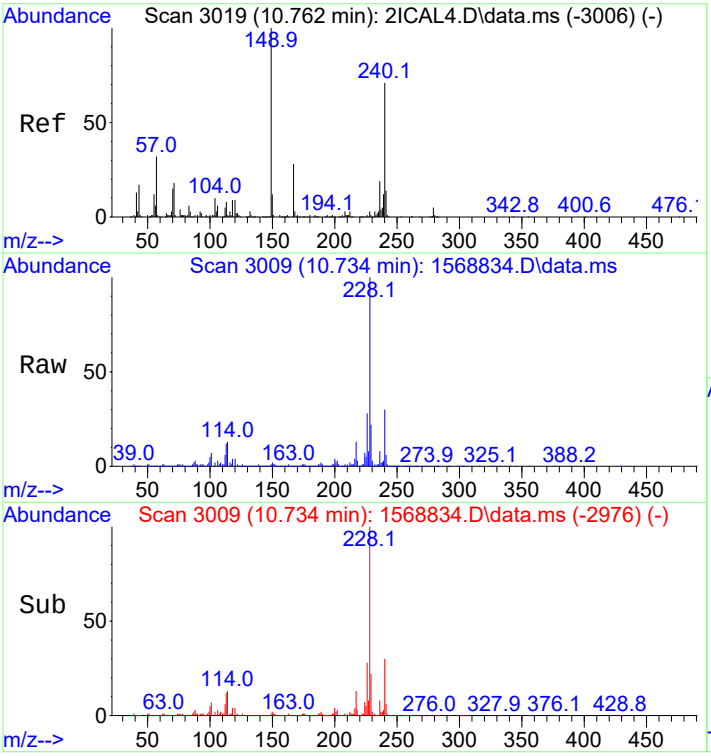




#83
Chrysene
Concen: 42.47 ug/mL
RT: 10.765 min Scan# 3020
Delta R.T. 0.009 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:228 Resp: 1447995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.2 | 0.0 | 59.9 |
| 229 | 22.7 | 0.0 | 49.5 |

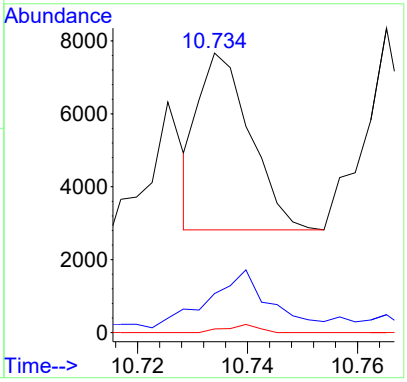


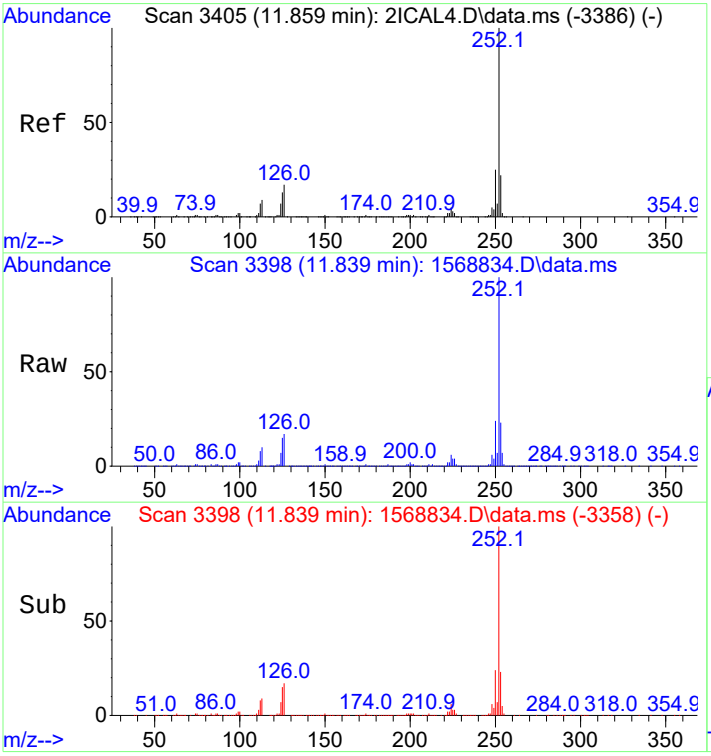



#84
bis2Ethlhxlph
Concen: 0.12 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.006 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:149 Resp: 3190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 15.8 | 0.0 | 57.9 |
| 279 | 2.1 | 0.0 | 34.9 |

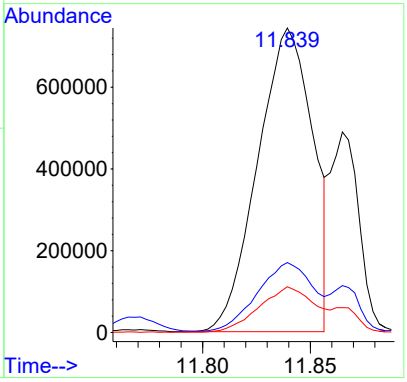


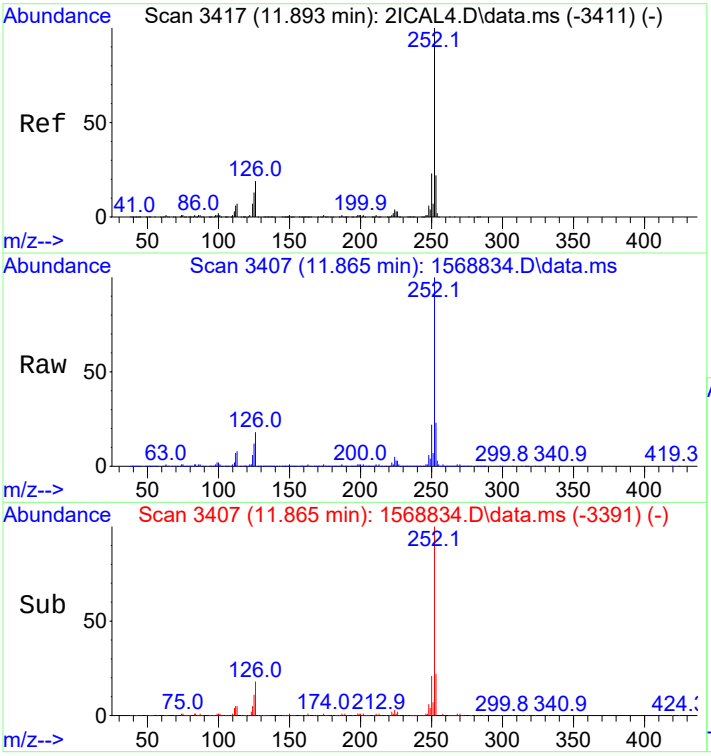




#87
B[b]fluoranth
Concen: 73.86 ug/mL
RT: 11.839 min Scan# 3398
Delta R.T. 0.014 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:252 Resp: 1324868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.5 | 0.0 | 52.3 |
| 125 | 15.0 | 0.0 | 43.2 |

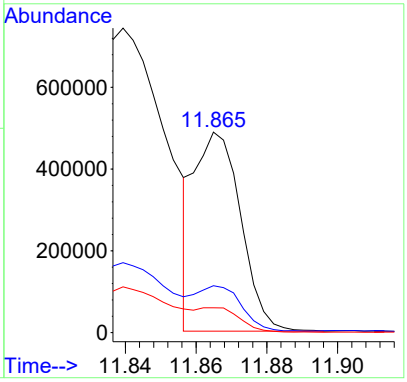


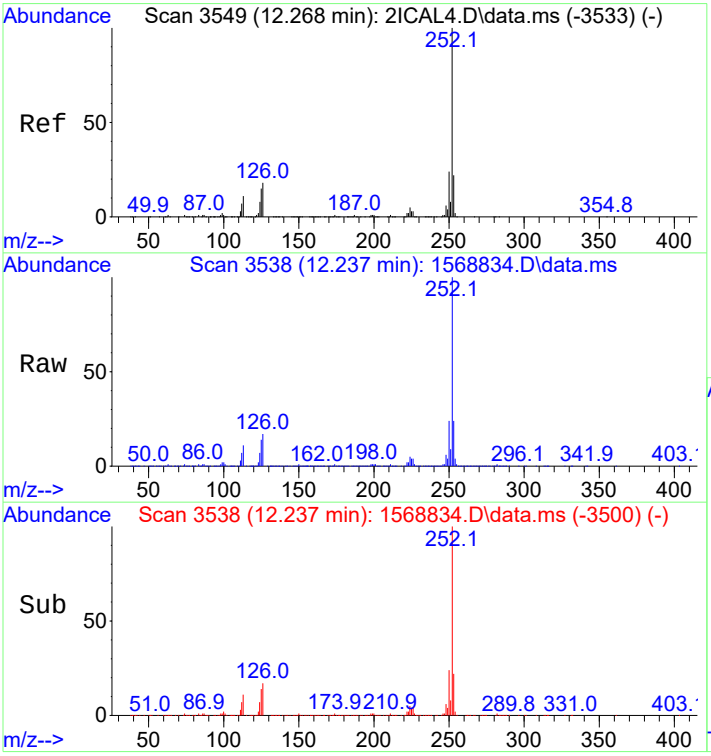



#88
B[k]fluoranth
Concen: 24.59 ug/mL
RT: 11.865 min Scan# 3407
Delta R.T. 0.006 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:252 Resp: 442019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 0.0 | 52.0 |
| 125 | 12.3 | 0.0 | 43.3 |

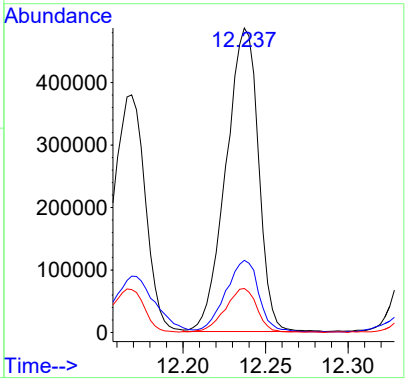


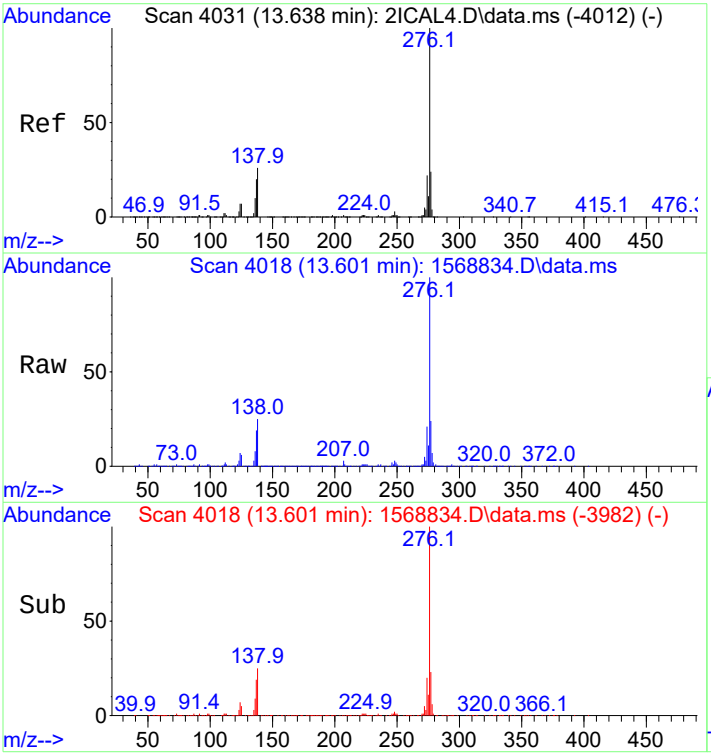




#89
Benz[a]pyrene
Concen: 40.27 ug/mL
RT: 12.237 min Scan# 3538
Delta R.T. 0.009 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:252 Resp: 664316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.6 | 0.0 | 52.3 |
| 125 | 14.5 | 0.0 | 45.1 |

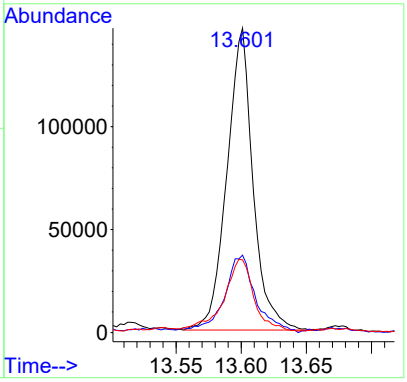


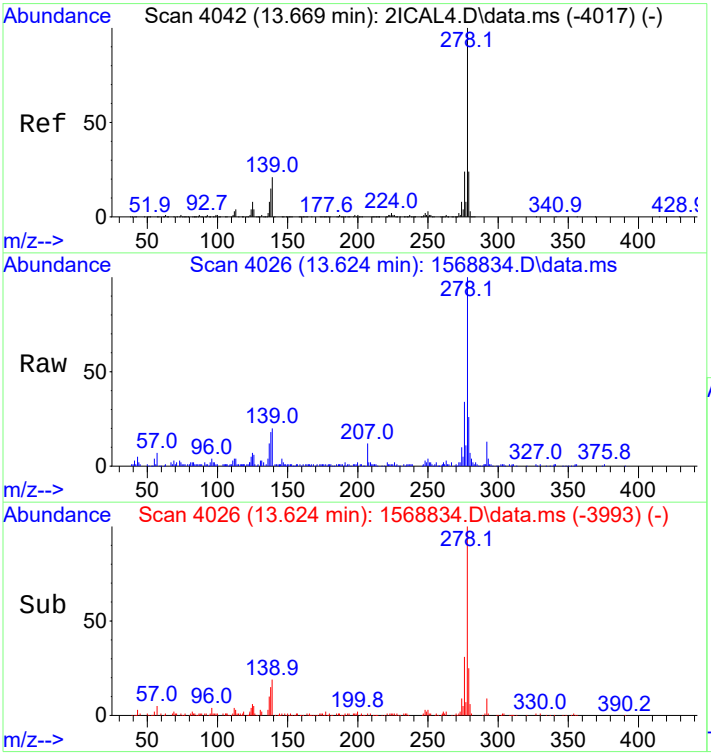



#90
Indeno-pyrene
Concen: 11.21 ug/mL
RT: 13.601 min Scan# 4018
Delta R.T. 0.003 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:276 Resp: 204612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.7 | 0.0 | 55.5 |
| 277 | 22.9 | 0.0 | 54.0 |

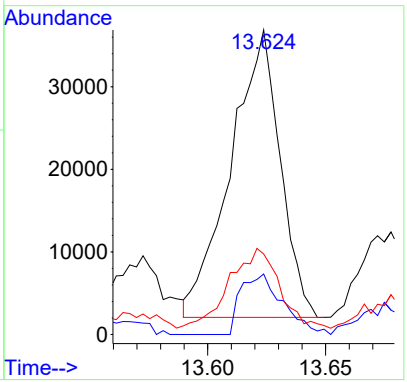


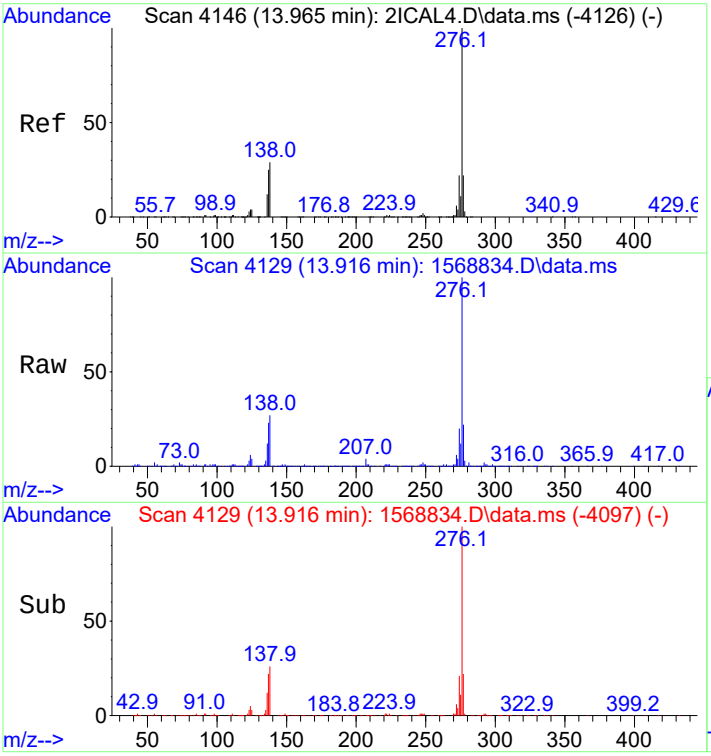




#91
Dib[ah]anthr
Concen: 3.40 ug/mL
RT: 13.624 min Scan# 4026
Delta R.T. -0.006 min
Lab File: 1568834.D
Acq: 11 Apr 2025 00:17

Tgt Ion:278 Resp: 50741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.0 | 0.0 | 50.9 |
| 279 | 25.0 | 0.0 | 54.4 |

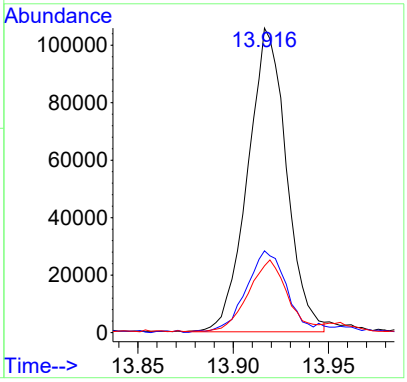





#92
B[ghi]perylen
Concen:  10.44 ug/mL
RT:  13.916 min  Scan# 4129
Delta R.T.  -0.008 min
Lab File:  1568834.D
Acq: 11 Apr 2025  00:17

Tgt Ion:276 Resp:  149249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.8 | 0.0 | 59.0 |
| 277 | 21.6 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568832.D Vial: 42
Acq On : 11 Apr 2025 00:40 Operator: ALD
Sample : 290730,1568832,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 00:57:06 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

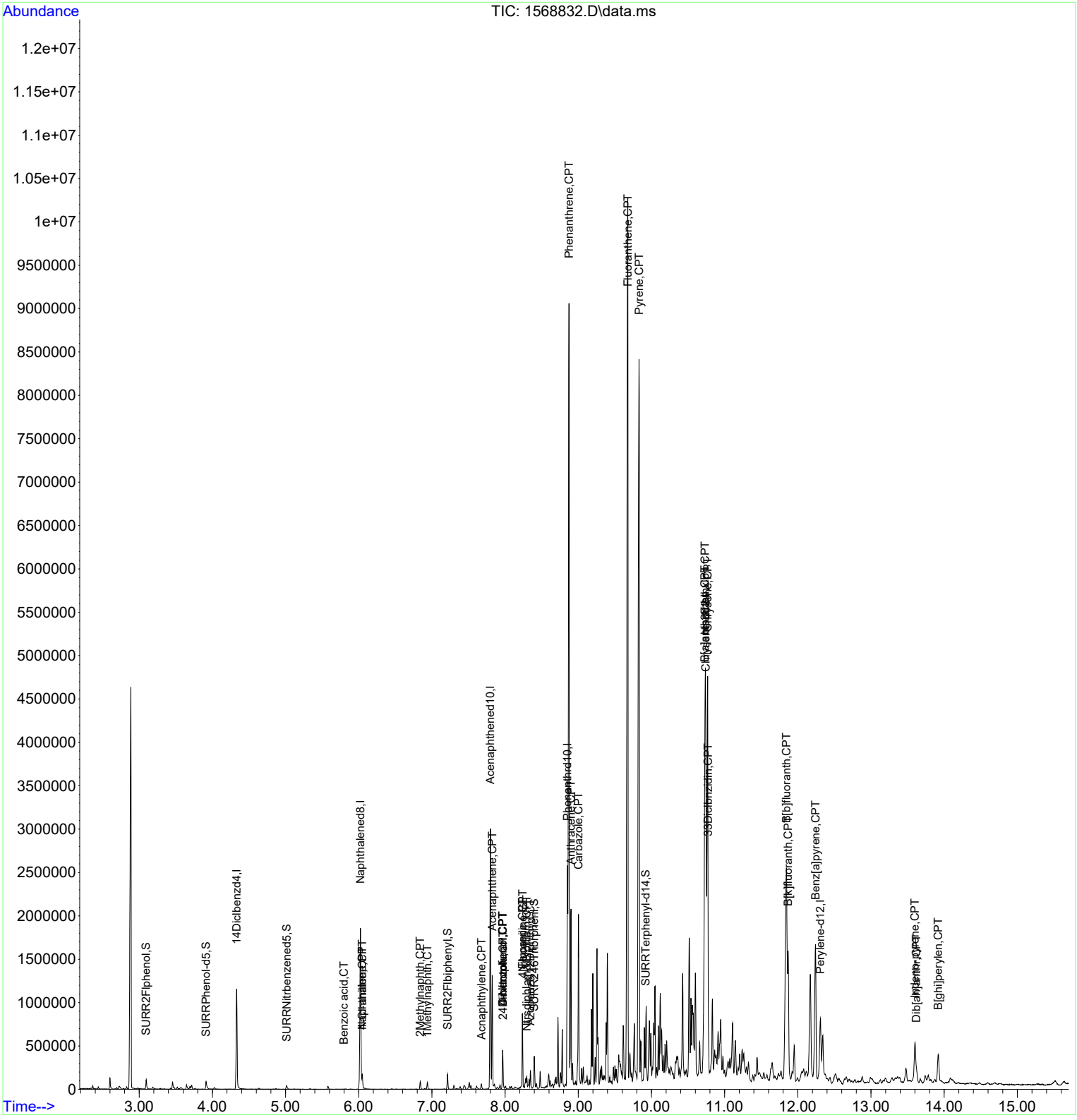
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.332 | 152 | 181300 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.023 | 136 | 917639 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 525070 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.853 | 188 | 769003 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.742 | 240 | 600991 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.308 | 264 | 339414 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.096 | 112 | 25611 | 5.87 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.87% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 36328 | 6.92 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 6.92% | | | |
| 22) SURRNitrbenzened5 | 5.017 | 82 | 14625 | 5.85 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.85% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 45812 | 7.31 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 7.31% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 11060 | 7.87 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 7.87% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 53361 | 9.11 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 9.11% | | | |
| Target Compounds | | | | | | Qvalue |
| 30) Benzoic acid | 5.798 | 122 | 637 | 3.0169 | ug/mL# | 10 |
| 31) Naphthalene | 6.048 | 128 | 64187 | 1.5167 | ug/mL | 96 |
| 32) 4-Cl-aniline | 6.048 | 127 | 7504 | 0.4544 | ug/mL | 50 |
| 37) 2Methylnaphth | 6.841 | 142 | 22630 | 0.8847 | ug/mL | 98 |
| 38) 1Methylnaphth | 6.938 | 142 | 19350 | 0.7315 | ug/mL | 96 |
| 47) Acnaphthylene | 7.676 | 152 | 16223 | 0.3818 | ug/mL | 98 |
| 50) Acenaphthene | 7.824 | 154 | 219831 | 8.7043 | ug/mL | 97 |
| 53) Dibenzofuran | 7.966 | 168 | 143760 | 3.9418 | ug/mL | 96 |
| 54) 24Dinitrotolu | 7.972 | 165 | 747 | 0.0810 | ug/mL# | 1 |
| 55) 4-Nitrophenol | 7.966 | 65 | 853 | 1.4146 | ug/mL# | 1 |
| 58) Fluorene | 8.236 | 166 | 176979 | 6.3478 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.239 | 138 | 2047 | 0.6318 | ug/mL# | 37 |
| 65) Ntrsdiphlam&Diphlam | 8.296 | 169 | 5754 | 0.2902 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 33095 | 4.6811 | ug/mL# | 1 |
| 70) Phenanthrene | 8.873 | 178 | 2588005 | 69.0772 | ug/mL | 96 |
| 71) Anthracene | 8.901 | 178 | 548223 | 14.3822 | ug/mL | 95 |
| 72) Carbazole | 9.003 | 167 | 531833 | 16.3850 | ug/mL | 99 |
| 74) Fluoranthene | 9.677 | 202 | 4046385 | 102.2801 | ug/mL | 95 |
| 77) Pyrene | 9.830 | 202 | 3242792 | 84.9481 | ug/mL | 96 |
| 81) 33Diclbnzidin | 10.774 | 252 | 7713 | 0.7369 | ug/mL# | 1 |
| 82) B[a]anthracen | 10.731 | 228 | 1710177 | 47.2645 | ug/mL | 97 |
| 83) Chrysene | 10.768 | 228 | 1636327 | 48.2203 | ug/mL | 96 |
| 84) bis2Ethlhxlph | 10.734 | 149 | 12011 | 0.4362 | ug/mL | 85 |
| 87) B[b]fluoranth | 11.845 | 252 | 1578208 | 87.7789 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.868 | 252 | 521256 | 28.9365 | ug/mL | 97 |
| 89) Benz[a]pyrene | 12.243 | 252 | 792022 | 47.9009 | ug/mL | 97 |
| 90) Indeno-pyrene | 13.601 | 276 | 249564 | 13.6464 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.621 | 278 | 60217 | 4.0281 | ug/mL | 91 |
| 92) B[ghi]perylen | 13.919 | 276 | 183598 | 12.8138 | ug/mL | 96 |

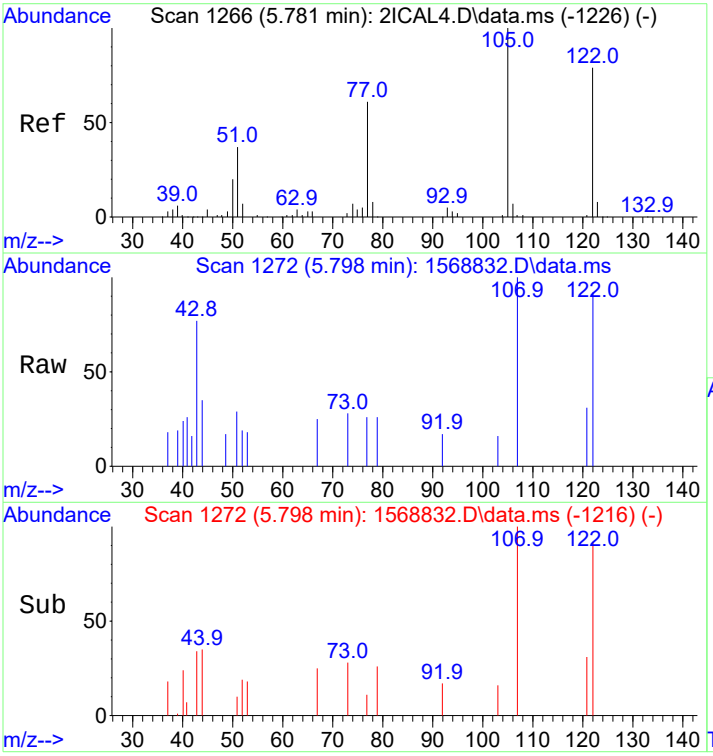
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568832.D Vial: 42
Acq On : 11 Apr 2025 00:40 Operator: ALD
Sample : 290730,1568832,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 00:57:06 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

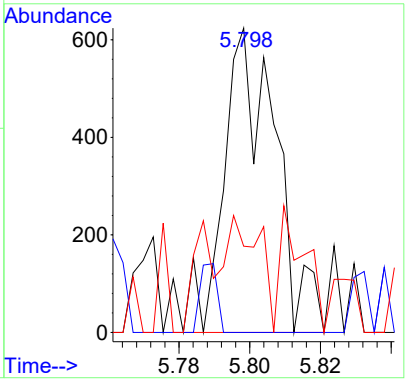


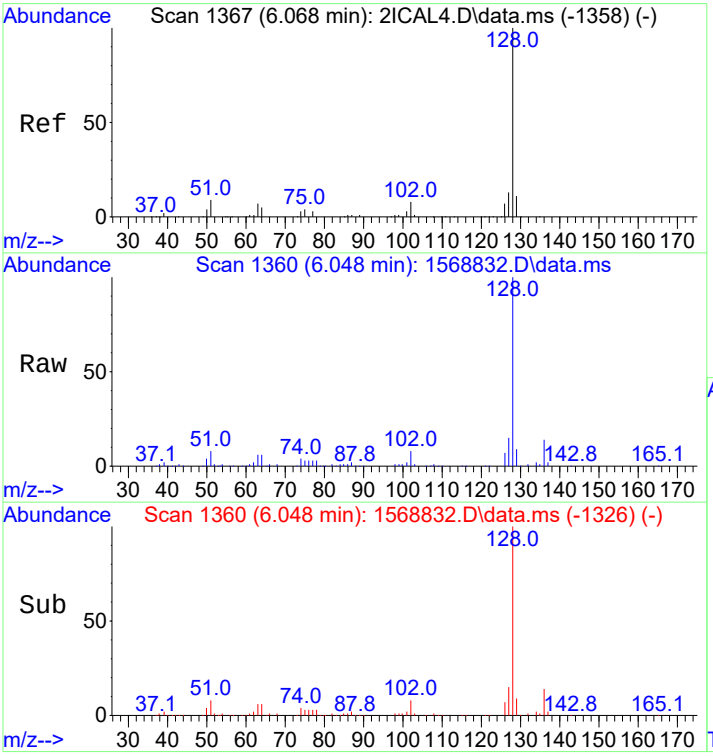



#30
Benzoic acid
Concen: 3.02 ug/mL
RT: 5.798 min Scan# 1272
Delta R.T. 0.028 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:122 Resp: 637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 0.0 | 96.0 | 156.0# |
| 77 | 28.4 | 46.6 | 106.6# |

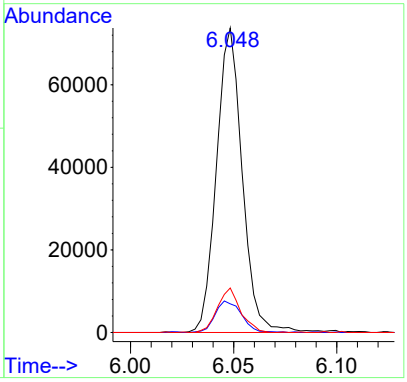


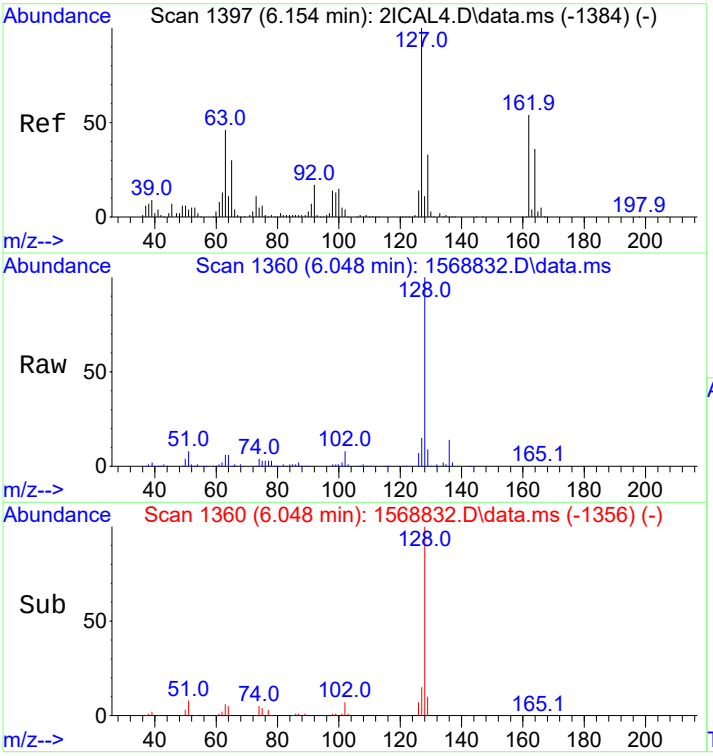




#31
Naphthalene
Concen: 1.52 ug/mL
RT: 6.048 min Scan# 1360
Delta R.T. -0.003 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:128 Resp: 64187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 9.4 | 0.0 | 41.0 |
| 127 | 14.5 | 0.0 | 43.3 |

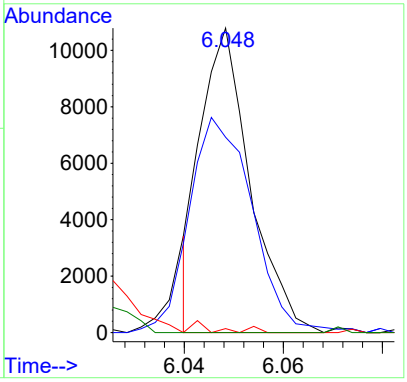


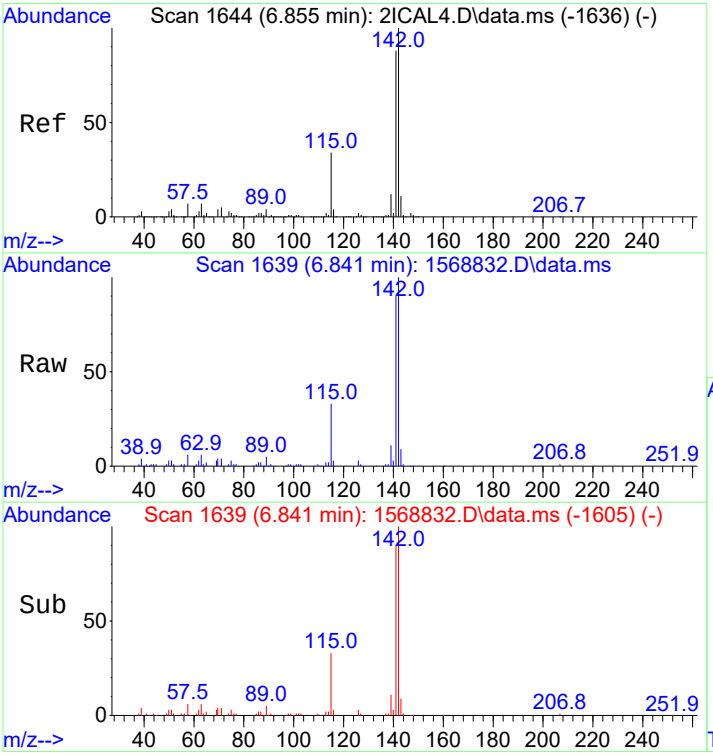



#32
4-Cl-aniline
Concen: 0.45 ug/mL
RT: 6.048 min Scan# 1360
Delta R.T. -0.088 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:127 Resp: 7504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 62.5 | 3.1 | 63.1 |
| 65 | 1.3 | 0.2 | 60.2 |
| 92 | 0.0 | 0.0 | 46.7 |

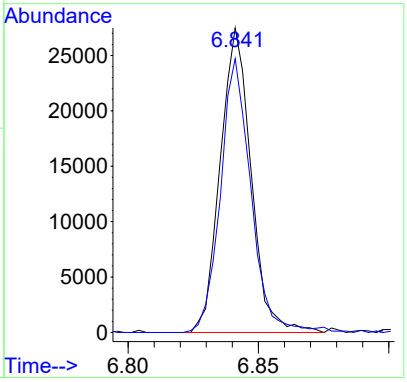


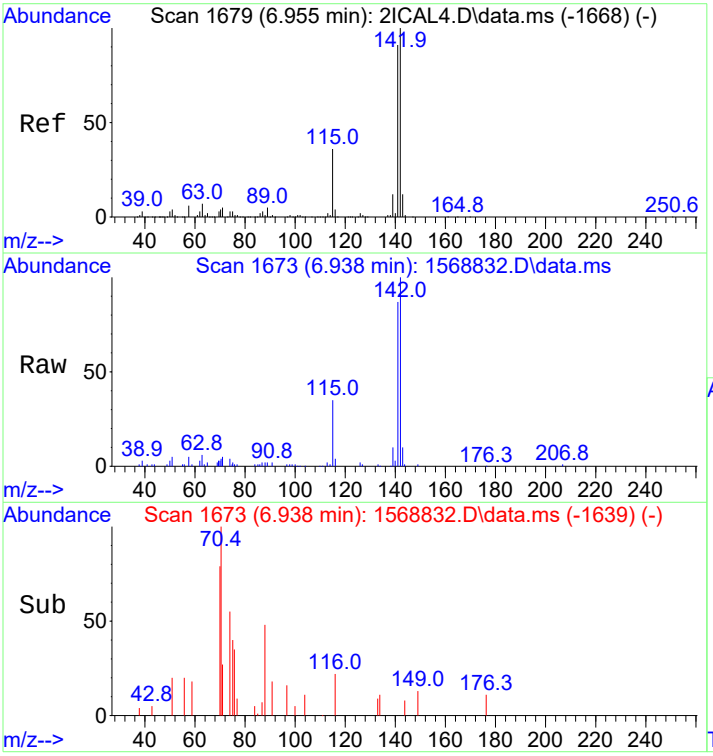




#37
2Methylnaphth
Concen: 0.88 ug/mL
RT: 6.841 min Scan# 1639
Delta R.T. -0.003 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:142 Resp: 22630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.9 | 58.0 | 118.0 |

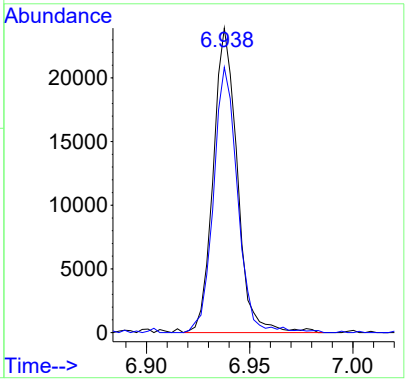


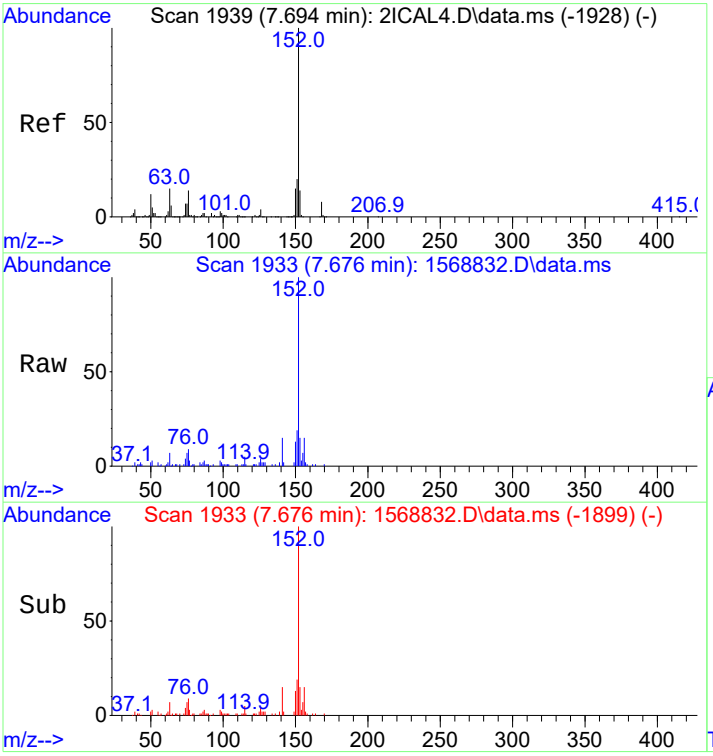



#38
1Methylnaphth
Concen: 0.73 ug/mL
RT: 6.938 min Scan# 1673
Delta R.T. -0.003 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:142 Resp: 19350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 87.2 | 60.7 | 120.7 |

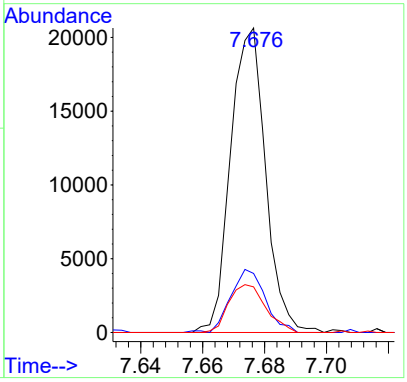


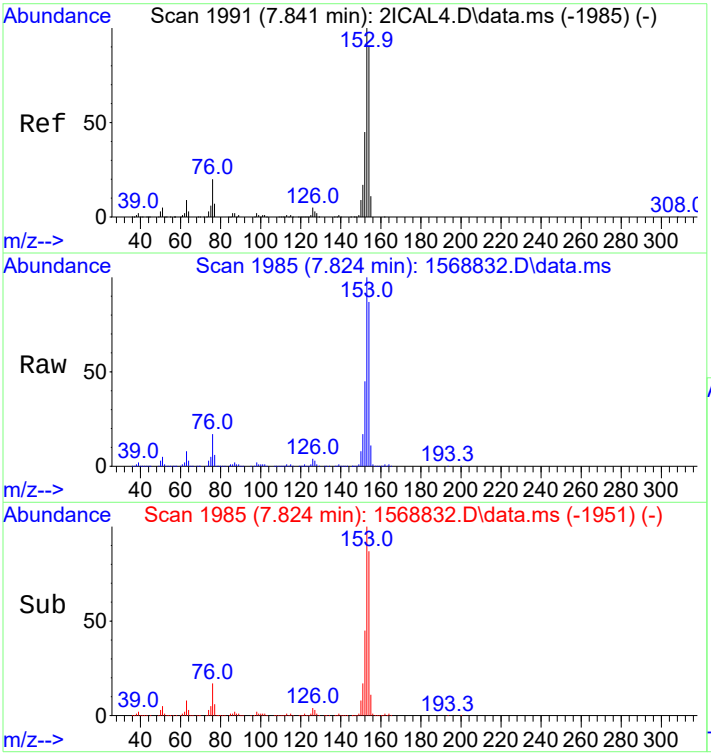




#47
Acnaphthylene
Concen: 0.38 ug/mL
RT: 7.676 min Scan# 1933
Delta R.T. -0.003 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:152 Resp: 16223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.4 | 0.0 | 50.3 |
| 153 | 15.0 | 0.0 | 44.4 |

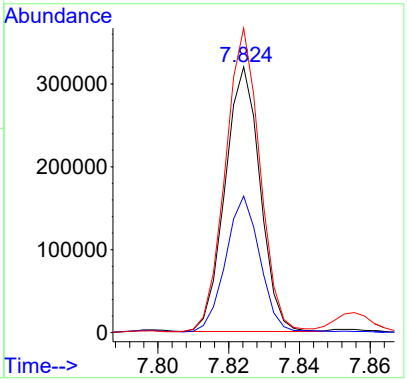


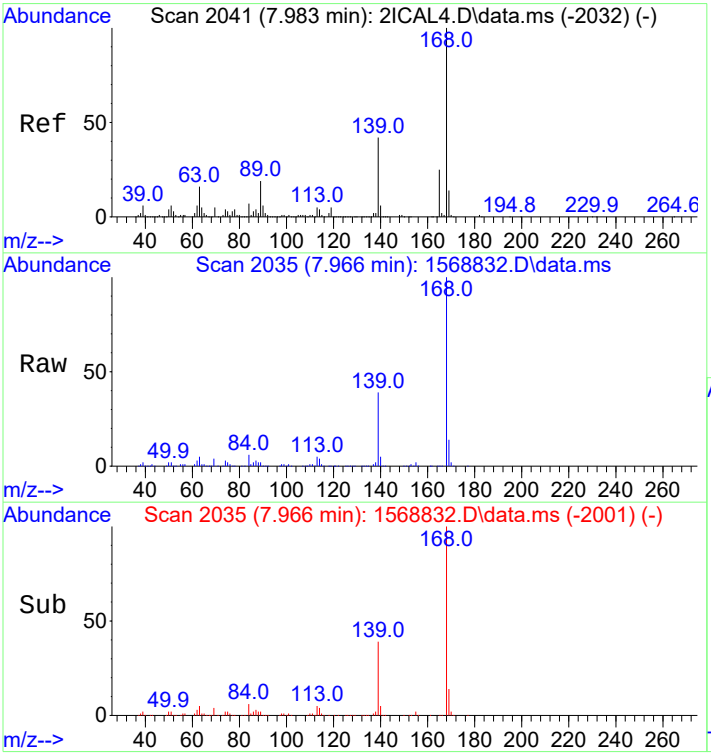



#50
Acenaphthene
Concen: 8.70 ug/mL
RT: 7.824 min Scan# 1985
Delta R.T. -0.003 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:154 Resp: 219831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 51.3 | 20.0 | 80.0 |
| 153 | 114.6 | 80.7 | 140.7 |

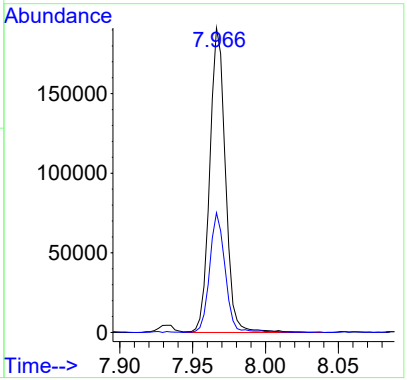


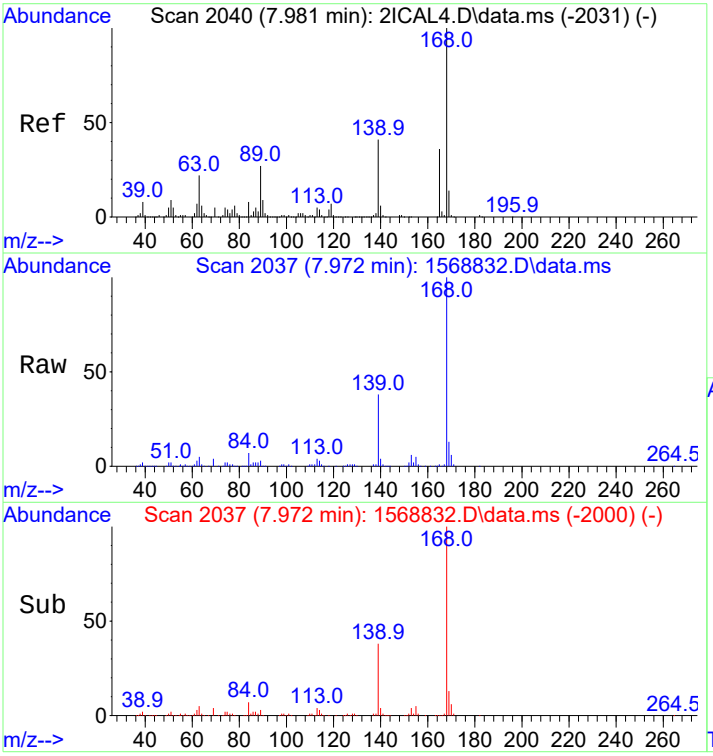




#53
Dibenzofuran
Concen: 3.94 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. -0.003 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:168 Resp: 143760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.3 | 11.9 | 71.9 |

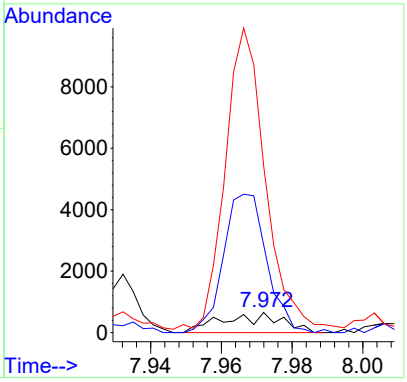


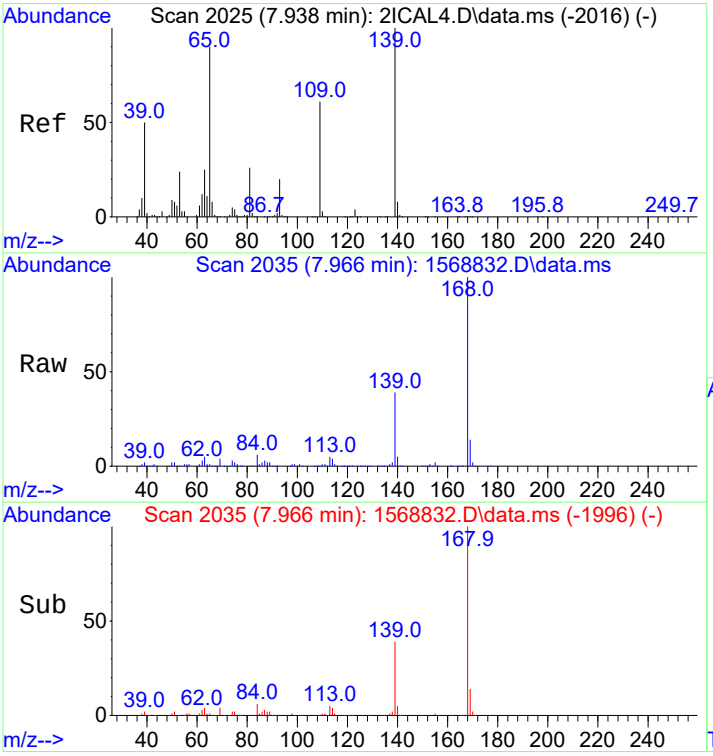



#54
24Dinitrotolu
Concen: 0.08 ug/mL
RT: 7.972 min Scan# 2037
Delta R.T. 0.006 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:165 Resp: 747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 433.6 | 46.1 | 106.1# |
| 63 | 785.2 | 32.6 | 92.6# |

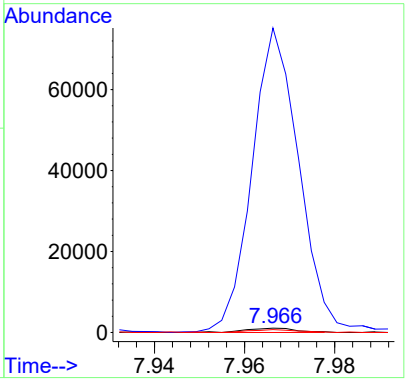


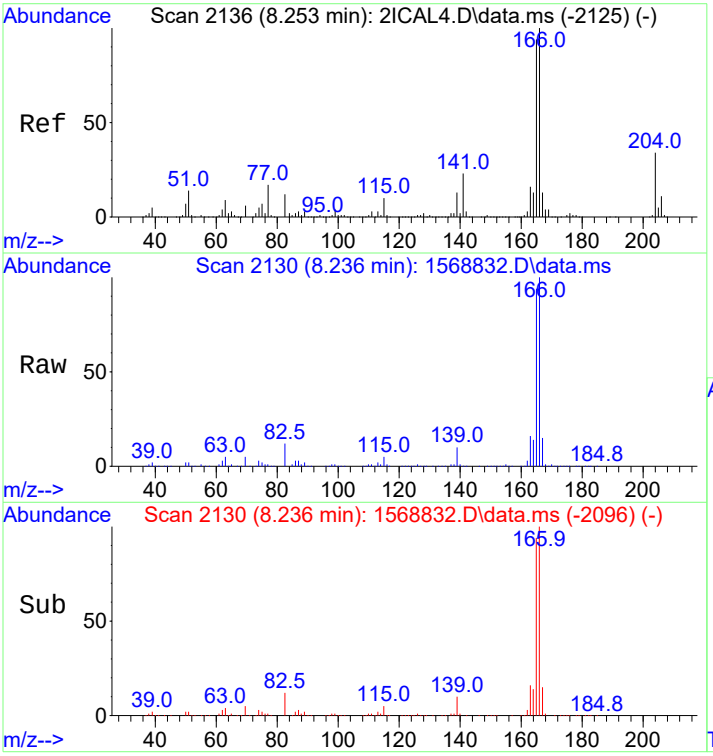




#55
4-Nitrophenol
Concen: 1.41 ug/mL
RT: 7.966 min Scan# 2035
Delta R.T. 0.045 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion: 65 Resp: 853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 6987.9 | 80.5 | 140.5# |
| 109 | 65.8 | 37.6 | 97.6 |

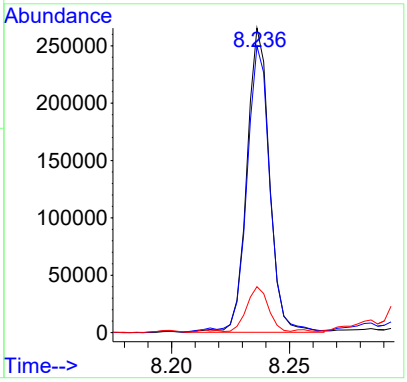


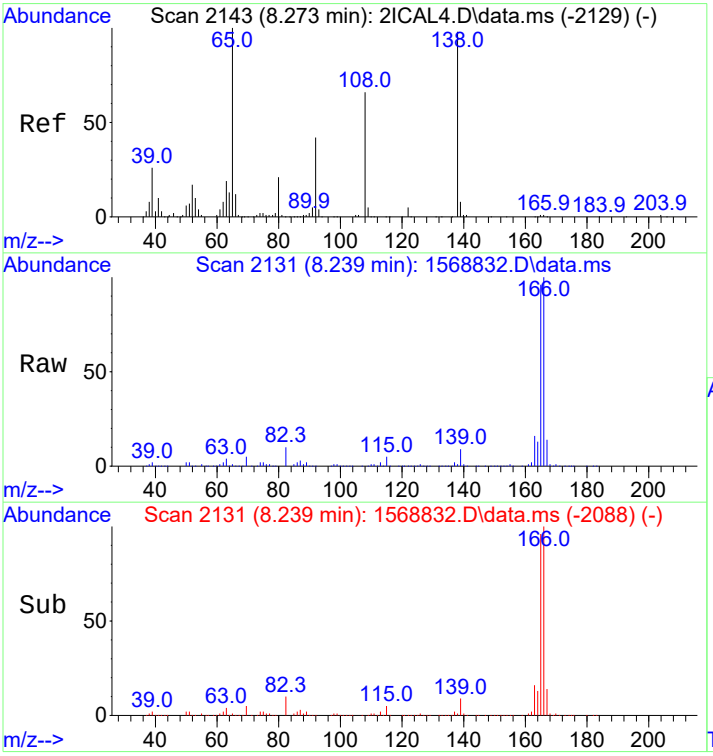



#58
Fluorene
Concen: 6.35 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:166 Resp: 176979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 93.9 | 63.6 | 123.6 |
| 167 | 14.9 | 0.0 | 43.3 |

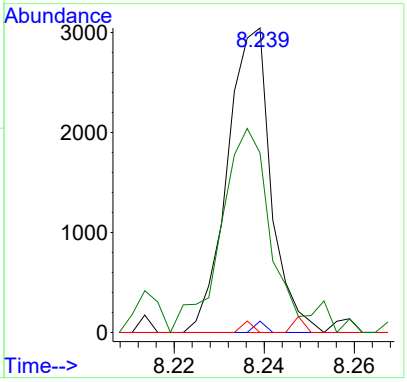


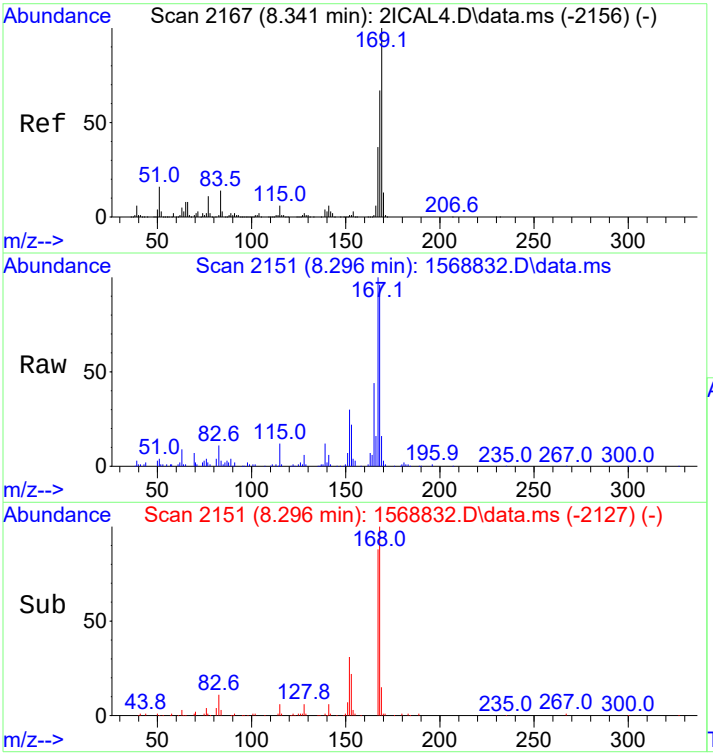




#61
4Nitroaniline
Concen: 0.63 ug/mL
RT: 8.239 min Scan# 2131
Delta R.T. -0.017 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:138 Resp: 2047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 3.7 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 49.9 | 71.1 | 131.1# |

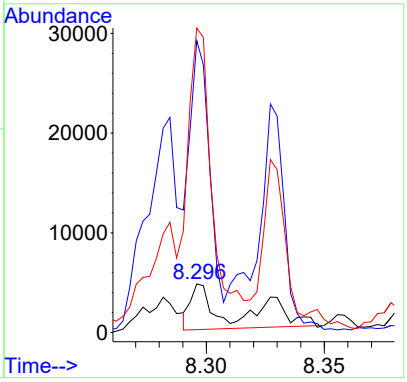


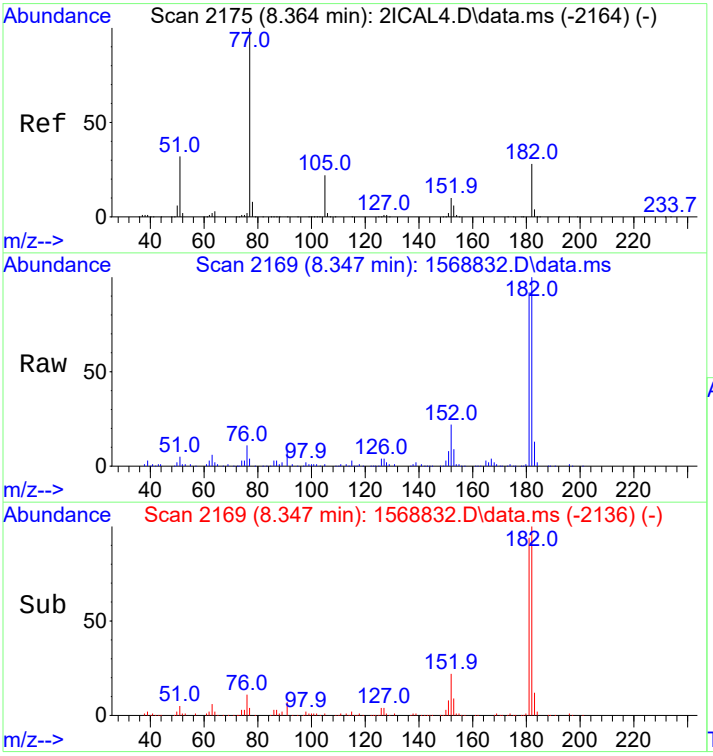



#65
Ntrsdiphlam&Diphlam
Concen: 0.29 ug/mL
RT: 8.296 min Scan# 2151
Delta R.T. -0.031 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:169 Resp: 5754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 733.7 | 37.2 | 97.2# |
| 167 | 732.2 | 6.9 | 66.9# |

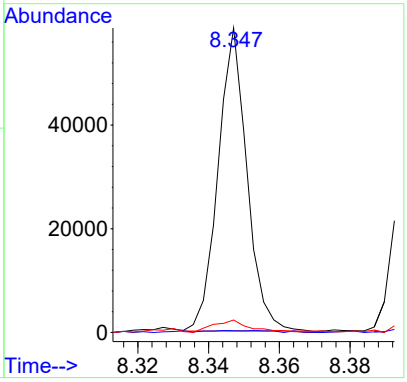


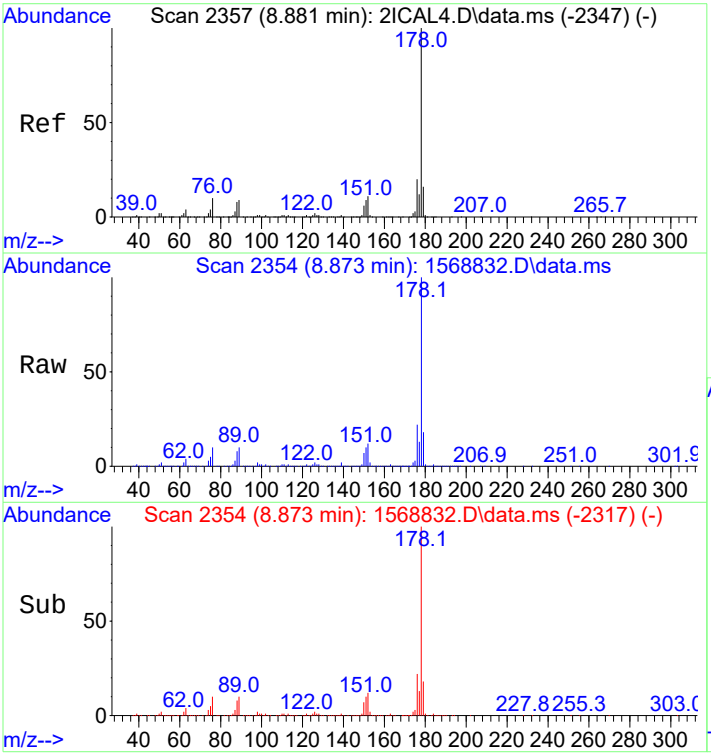




#66
Azobenz&12Diphlhyd
Concen: 4.68 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:182 Resp: 33095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.6 | 49.9 | 109.9# |
| 77 | 3.8 | 339.9 | 399.9# |

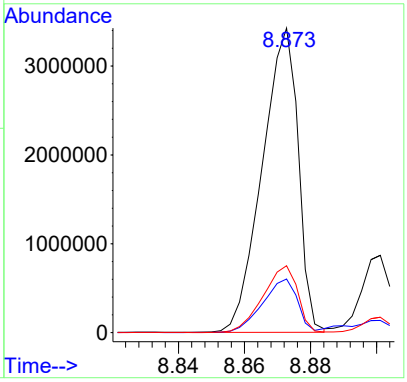


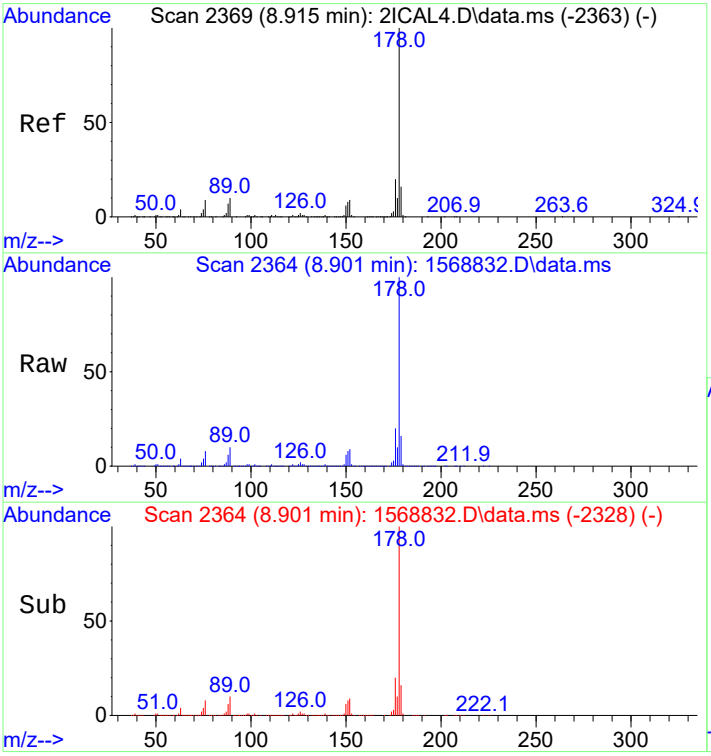



#70
Phenanthrene
Concen: 69.08 ug/mL
RT: 8.873 min Scan# 2354
Delta R.T. 0.006 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:178 Resp: 2588005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 17.6 | 0.0 | 45.9 |
| 176 | 22.0 | 0.0 | 50.4 |

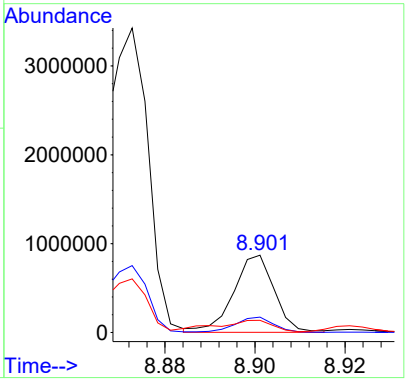


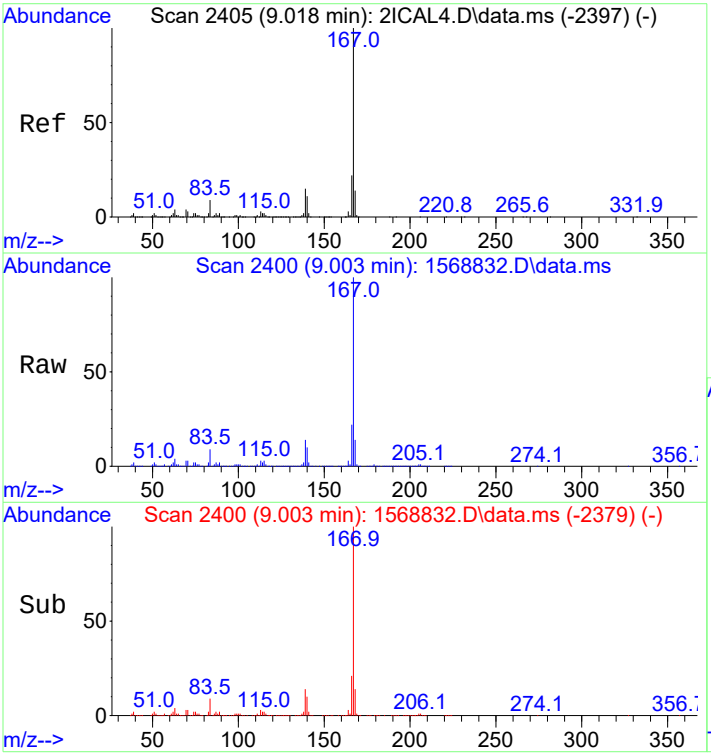




#71
Anthracene
Concen: 14.38 ug/mL
RT: 8.901 min Scan# 2364
Delta R.T. 0.003 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:178 Resp: 548223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.2 | 0.0 | 49.5 |
| 179 | 11.9 | 0.0 | 45.9 |

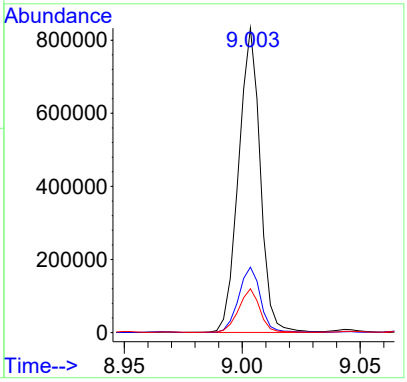


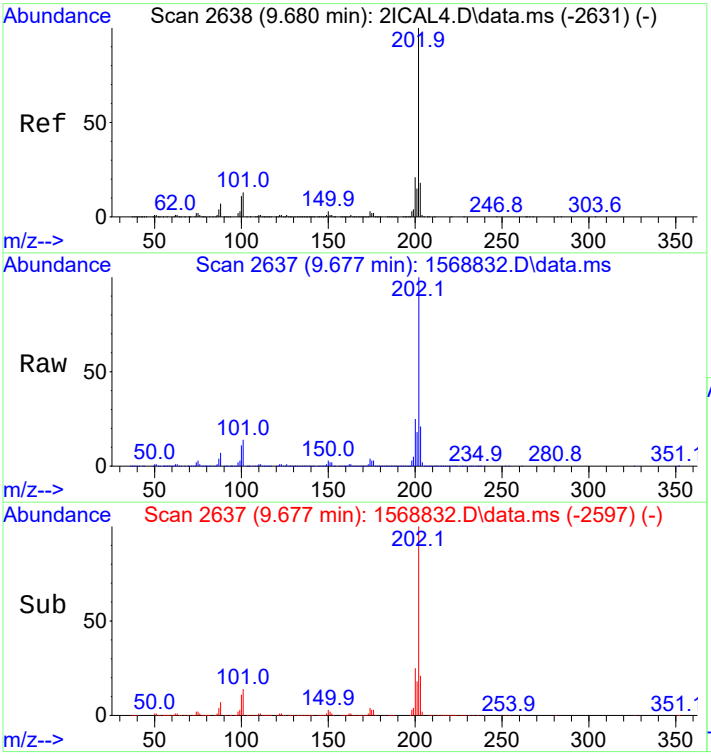



#72
Carbazole
Concen: 16.38 ug/mL
RT: 9.003 min Scan# 2400
Delta R.T. -0.000 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:167 Resp: 531833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.5 | 0.0 | 52.1 |
| 139 | 14.3 | 0.0 | 44.7 |

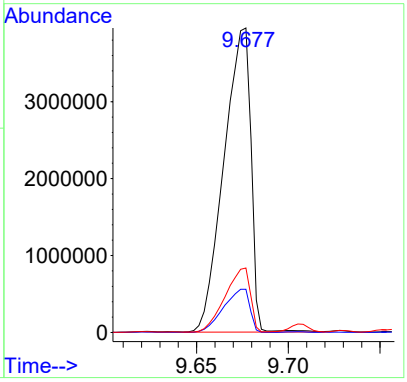


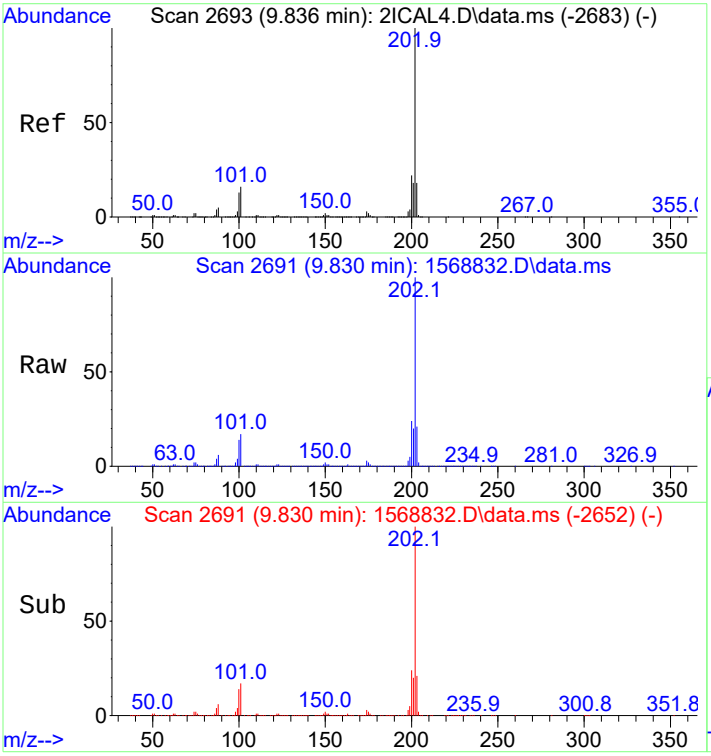




#74
Fluoranthene
Concen: 102.28 ug/mL
RT: 9.677 min Scan# 2637
Delta R.T. 0.014 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:202 Resp: 4046385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.1 | 0.0 | 43.0 |
| 203 | 21.1 | 0.0 | 48.2 |

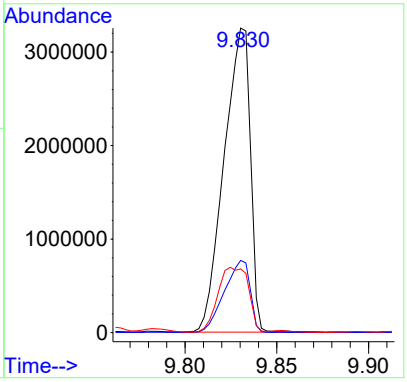


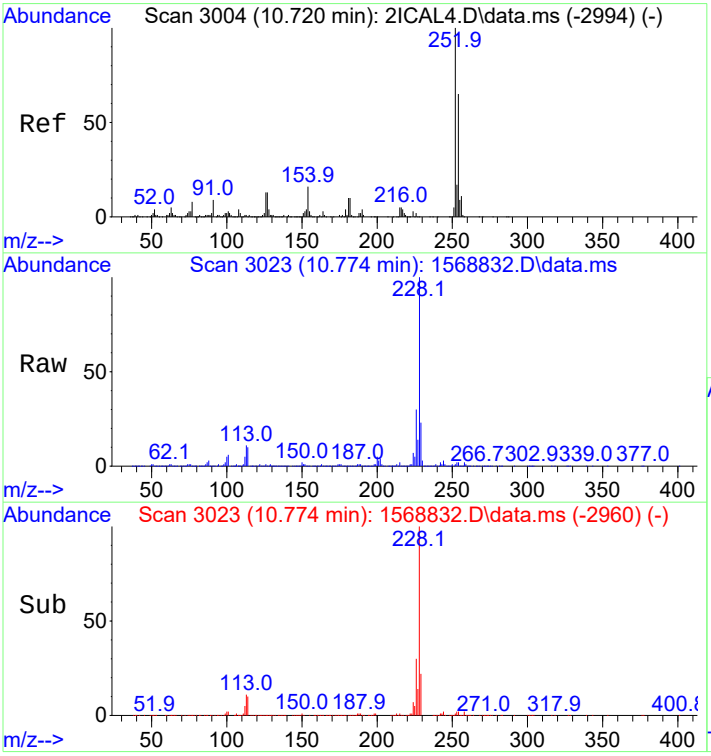



#77
Pyrene
Concen: 84.95 ug/mL
RT: 9.830 min Scan# 2691
Delta R.T. 0.011 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:202 Resp: 3242792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 23.7 | 0.0 | 52.2 |
| 203 | 20.9 | 0.0 | 48.2 |

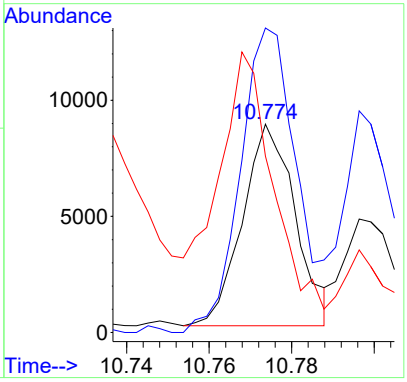


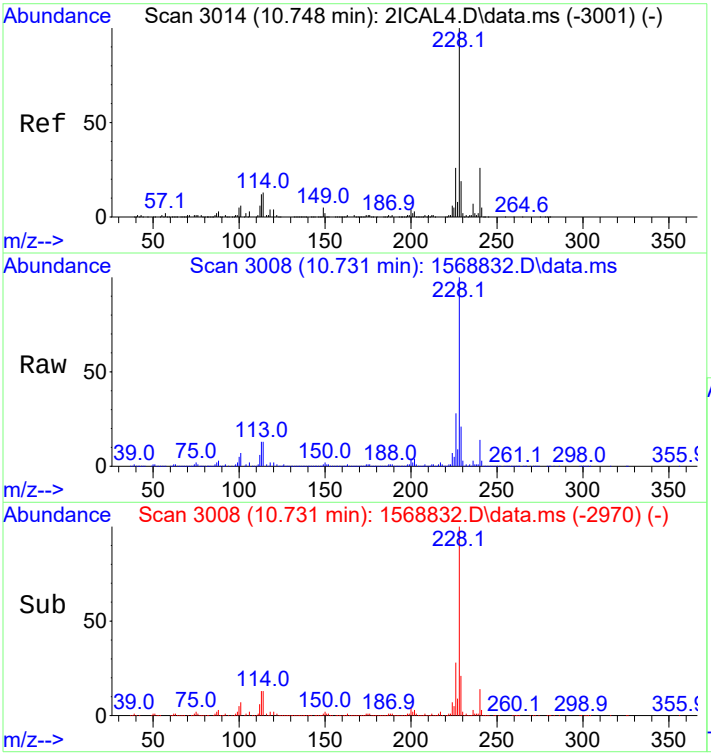




#81
33Diclbnzidin
Concen: 0.74 ug/mL
RT: 10.774 min Scan# 3023
Delta R.T. 0.080 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:252 Resp: 7713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 151.0 | 34.6 | 94.6# |
| 126 | 75.9 | 0.0 | 42.6# |

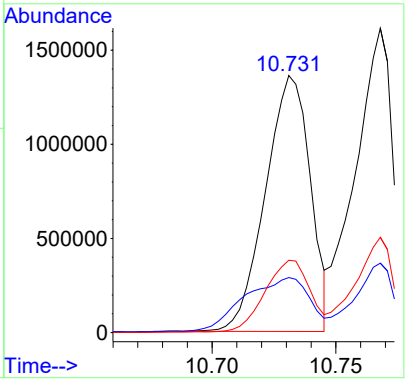


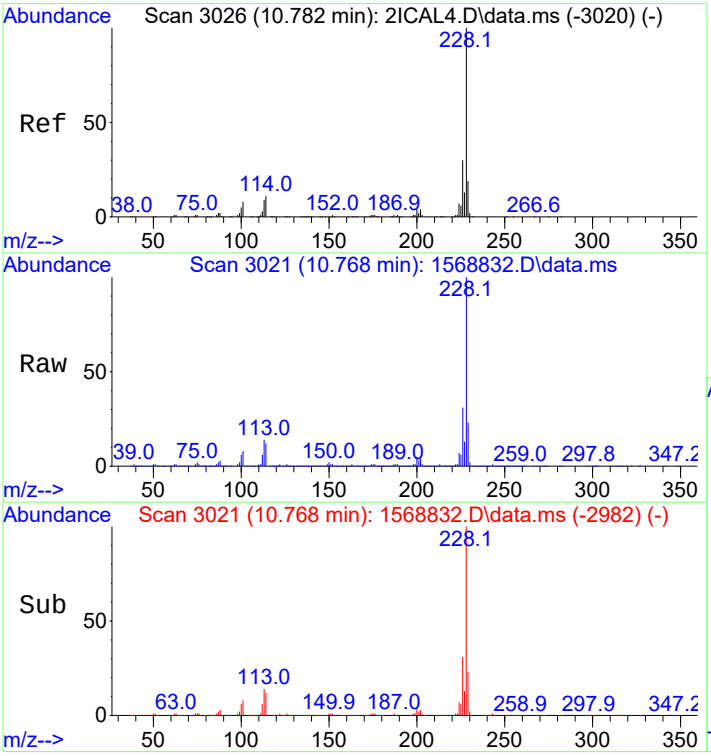



#82
B[a]anthracen
Concen: 47.26 ug/mL
RT: 10.731 min Scan# 3008
Delta R.T. 0.008 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:228 Resp: 1710177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.9 | 0.0 | 49.4 |
| 226 | 28.0 | 0.0 | 56.5 |

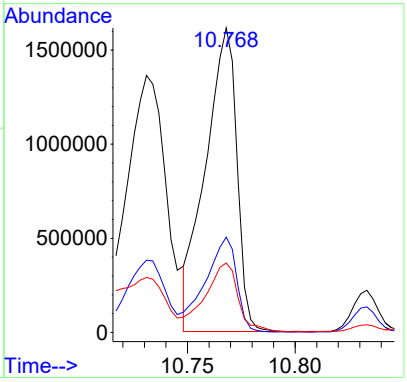


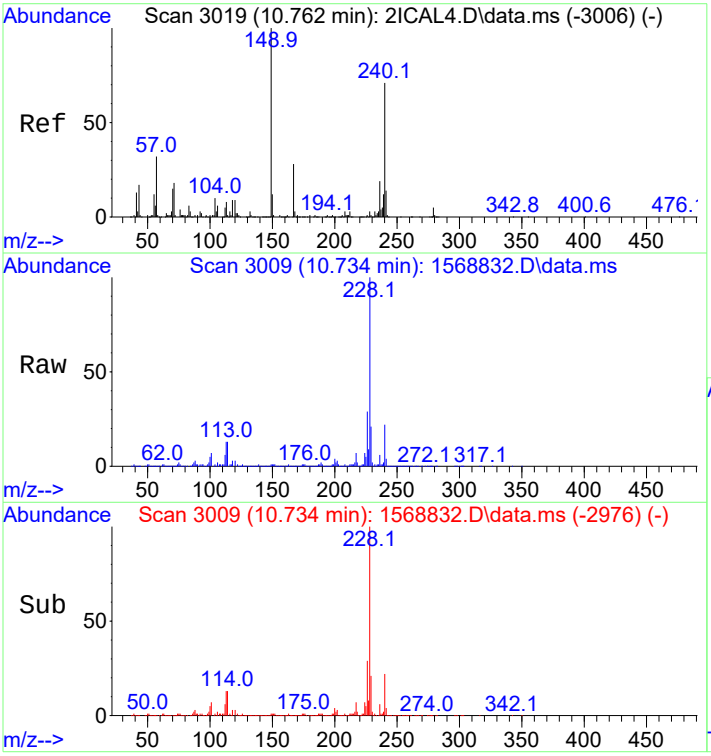




#83
Chrysene
Concen: 48.22 ug/mL
RT: 10.768 min Scan# 3021
Delta R.T. 0.011 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:228 Resp: 1636327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.2 | 0.0 | 59.9 |
| 229 | 22.5 | 0.0 | 49.5 |

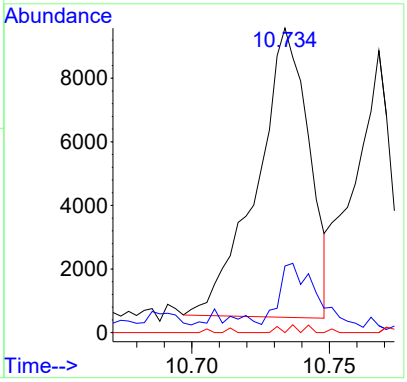


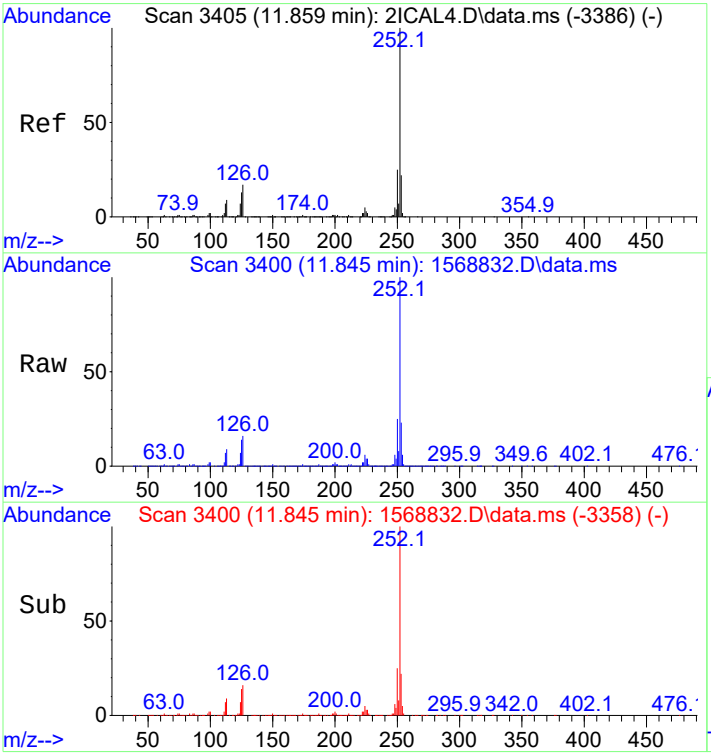



#84
bis2Ethlhxlph
Concen: 0.44 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.006 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:149 Resp: 12011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 19.9 | 0.0 | 57.9 |
| 279 | 0.0 | 0.0 | 34.9 |

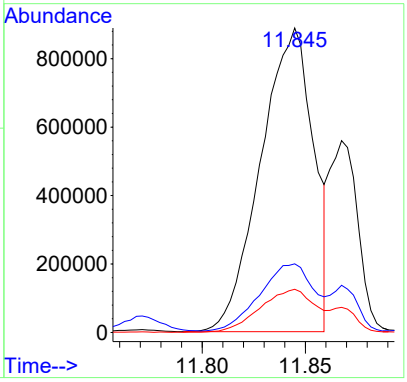


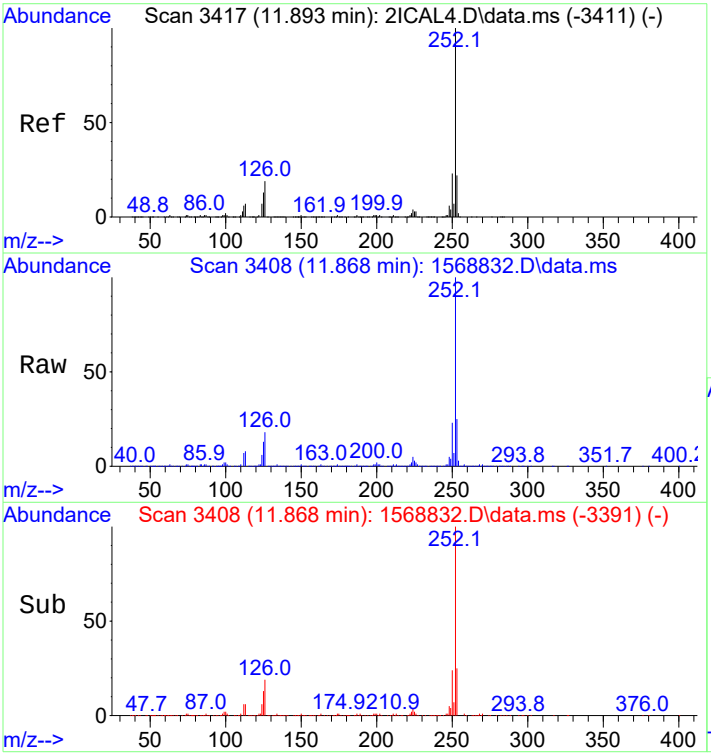




#87
B[b]fluoranth
Concen: 87.78 ug/mL
RT: 11.845 min Scan# 3400
Delta R.T. 0.020 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:252 Resp: 1578208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 0.0 | 52.3 |
| 125 | 14.1 | 0.0 | 43.2 |

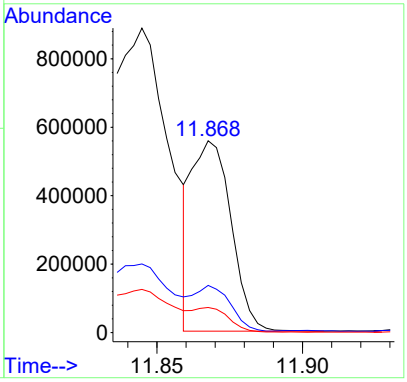


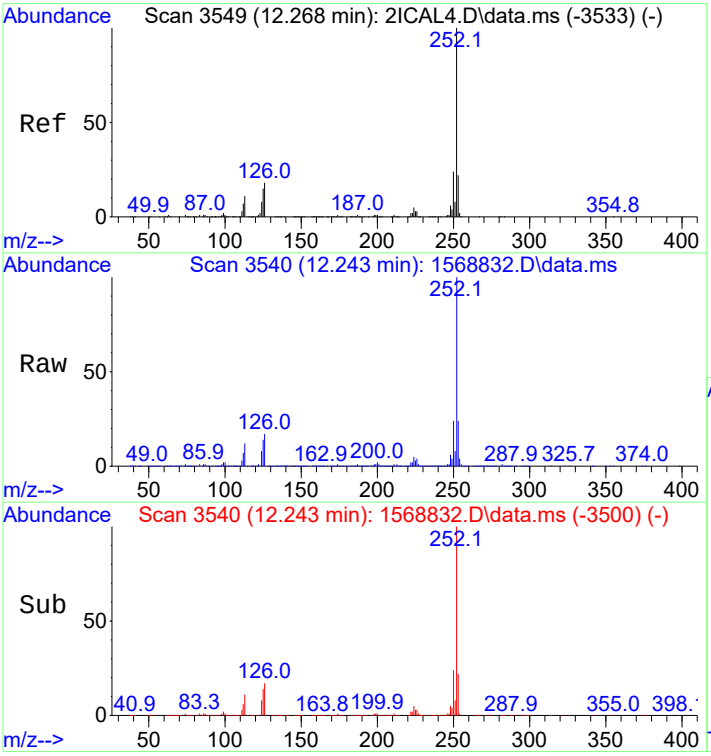



#88
B[k]fluoranth
Concen: 28.94 ug/mL
RT: 11.868 min Scan# 3408
Delta R.T. 0.009 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:252 Resp: 521256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.8 | 0.0 | 52.0 |
| 125 | 12.9 | 0.0 | 43.3 |

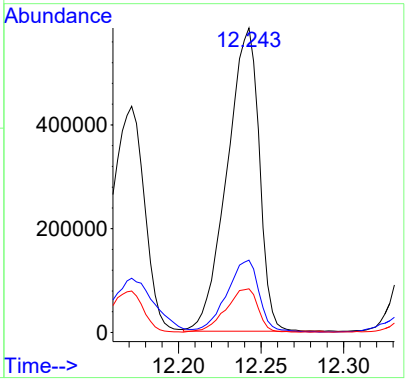


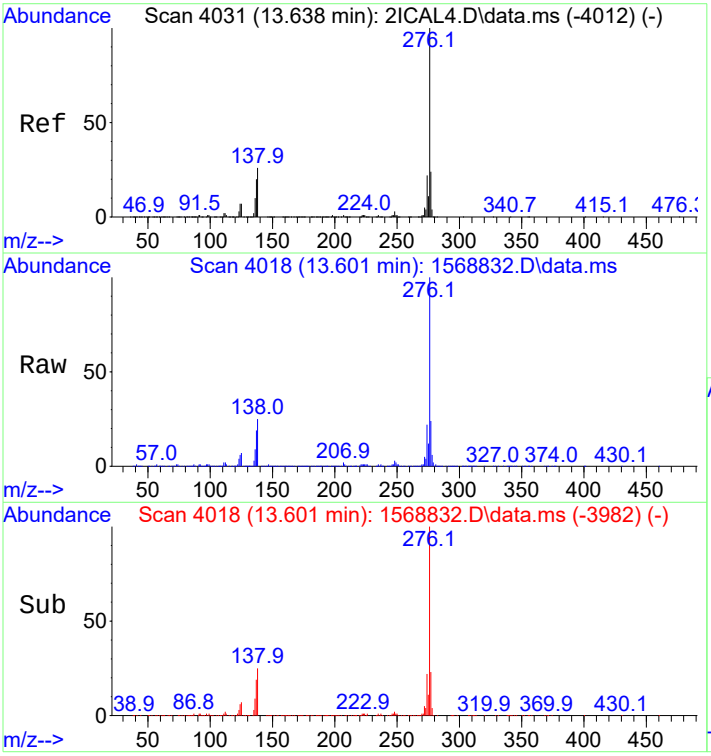




#89
Benz[a]pyrene
Concen: 47.90 ug/mL
RT: 12.243 min Scan# 3540
Delta R.T. 0.014 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:252 Resp: 792022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 0.0 | 52.3 |
| 125 | 14.3 | 0.0 | 45.1 |

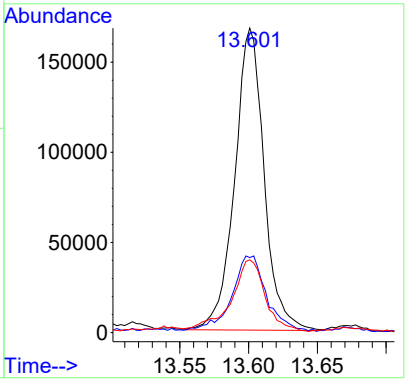


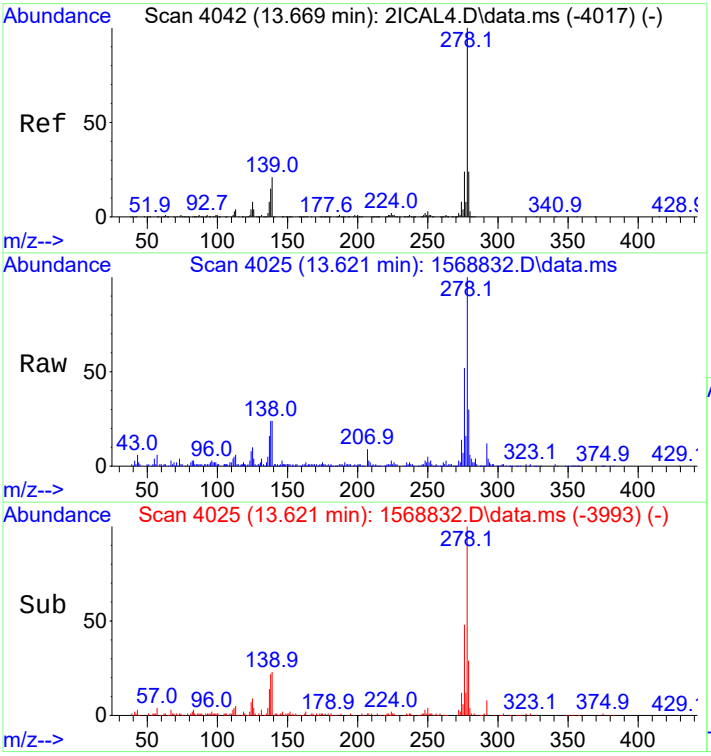



#90
Indeno-pyrene
Concen: 13.65 ug/mL
RT: 13.601 min Scan# 4018
Delta R.T. 0.003 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:276 Resp: 249564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.2 | 0.0 | 55.5 |
| 277 | 23.2 | 0.0 | 54.0 |

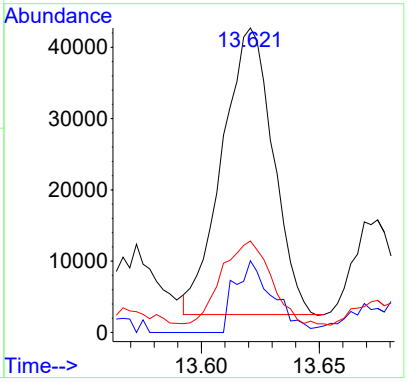


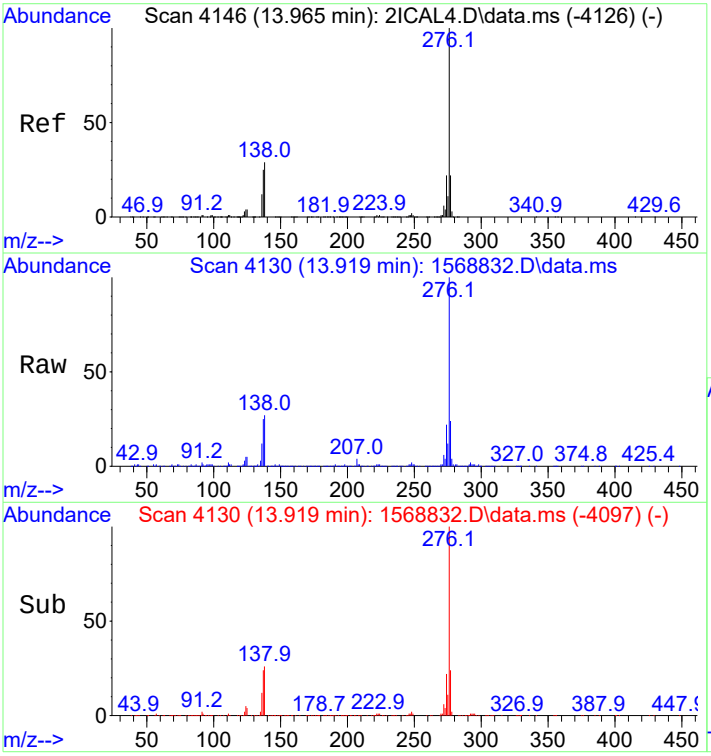




#91
Dib[ah]anthr
Concen: 4.03 ug/mL
RT: 13.621 min Scan# 4025
Delta R.T. -0.009 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:278 Resp: 60217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 25.0 | 0.0 | 50.9 |
| 279 | 29.0 | 0.0 | 54.4 |

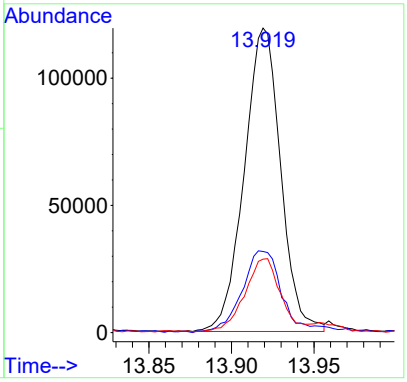





#92
B[ghi]perylen
Concen: 12.81 ug/mL
RT: 13.919 min Scan# 4130
Delta R.T. -0.006 min
Lab File: 1568832.D
Acq: 11 Apr 2025 00:40

Tgt Ion:276 Resp: 183598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.2 | 0.0 | 59.0 |
| 277 | 23.7 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568820.D Vial: 43
Acq On : 11 Apr 2025 1:03 Operator: ALD
Sample : 290730,1568820,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 01:20:16 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

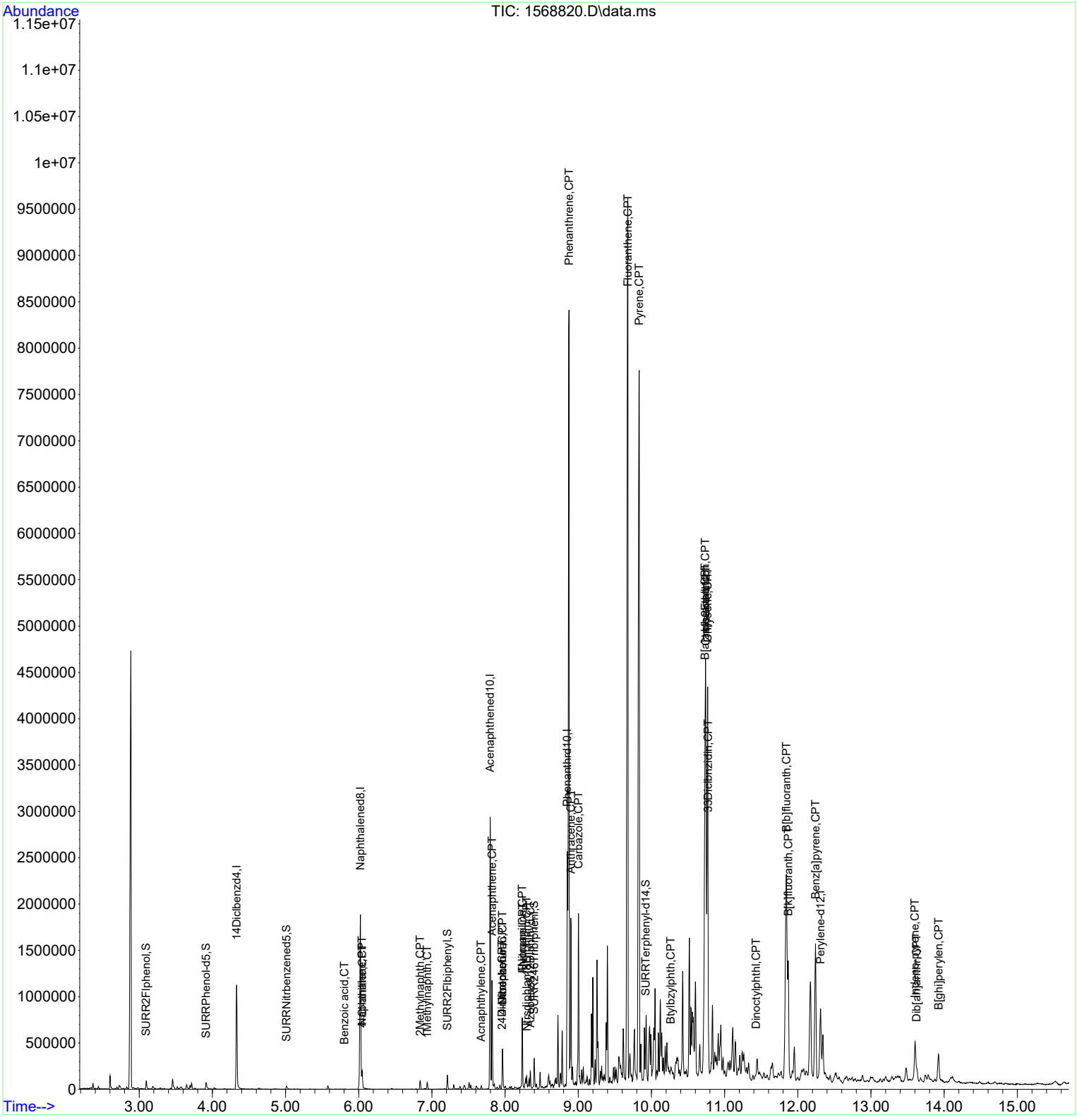
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.332 | 152 | 176409 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.023 | 136 | 906082 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.796 | 164 | 517175 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.850 | 188 | 775395 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.742 | 240 | 615252 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.311 | 264 | 367123 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.096 | 112 | 21682 | 5.10 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.10% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 29041 | 5.69 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.69% | | | |
| 22) SURRNitrbenzened5 | 5.011 | 82 | 13444 | 5.45 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.45% | | | |
| 44) SURR2Flbiphenyl | 7.211 | 172 | 39232 | 6.36 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 6.36% | | | |
| 62) SURR246Tribrphenl | 8.398 | 330 | 9134 | 6.60 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 6.60% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 47508 | 7.92 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 7.92% | | | |
| Target Compounds | | | | | | Qvalue |
| 30) Benzoic acid | 5.804 | 122 | 731 | 3.0302 | ug/mL# | 14 |
| 31) Naphthalene | 6.046 | 128 | 79323 | 1.8982 | ug/mL | 97 |
| 32) 4-Cl-aniline | 6.048 | 127 | 7943 | 0.4871 | ug/mL# | 36 |
| 37) 2Methylnaphth | 6.838 | 142 | 23723 | 0.9393 | ug/mL | 93 |
| 38) 1Methylnaphth | 6.935 | 142 | 18514 | 0.7088 | ug/mL | 94 |
| 47) Acnaphthylene | 7.671 | 152 | 9511 | 0.2272 | ug/mL | 94 |
| 50) Acenaphthene | 7.821 | 154 | 202393 | 8.1362 | ug/mL | 99 |
| 53) Dibenzofuran | 7.964 | 168 | 140045 | 3.8985 | ug/mL | 96 |
| 54) 24Dinitrotolu | 7.958 | 165 | 586 | 0.0645 | ug/mL# | 1 |
| 55) 4-Nitrophenol | 7.961 | 65 | 811 | 1.4093 | ug/mL# | 1 |
| 58) Fluorene | 8.236 | 166 | 165932 | 6.0424 | ug/mL | 97 |
| 61) 4Nitroaniline | 8.233 | 138 | 2005 | 0.6301 | ug/mL# | 43 |
| 65) Ntrsdiphlam&Diphlam | 8.296 | 169 | 7515 | 0.3759 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.347 | 182 | 31538 | 4.4241 | ug/mL# | 1 |
| 70) Phenanthrene | 8.873 | 178 | 2421994 | 64.1132 | ug/mL | 96 |
| 71) Anthracene | 8.898 | 178 | 515333 | 13.4079 | ug/mL | 99 |
| 72) Carbazole | 9.004 | 167 | 494935 | 15.1225 | ug/mL | 99 |
| 74) Fluoranthene | 9.677 | 202 | 3660319 | 91.7588 | ug/mL | 96 |
| 77) Pyrene | 9.833 | 202 | 2888375 | 73.9099 | ug/mL | 97 |
| 79) Btylbzylphth | 10.262 | 149 | 2734 | 0.1415 | ug/mL# | 24 |
| 81) 33Diclbnzidin | 10.774 | 252 | 6121 | 0.5123 | ug/mL# | 1 |
| 82) B[a]anthracen | 10.734 | 228 | 1523152 | 41.1199 | ug/mL | 98 |
| 83) Chrysene | 10.768 | 228 | 1458367 | 41.9800 | ug/mL | 96 |
| 84) bis2Ethlhxlph | 10.737 | 149 | 9933 | 0.3524 | ug/mL | 79 |
| 85) Dinoctylphthl | 11.430 | 149 | 3245 | 0.3823 | ug/mL# | 56 |
| 87) B[b]fluoranth | 11.845 | 252 | 1361221 | 69.9959 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.871 | 252 | 454368 | 23.3196 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.243 | 252 | 706475 | 39.5022 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.601 | 276 | 225748 | 11.4124 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.621 | 278 | 52173 | 3.2266 | ug/mL | 91 |
| 92) B[ghi]perylen | 13.925 | 276 | 161441 | 10.4170 | ug/mL | 93 |

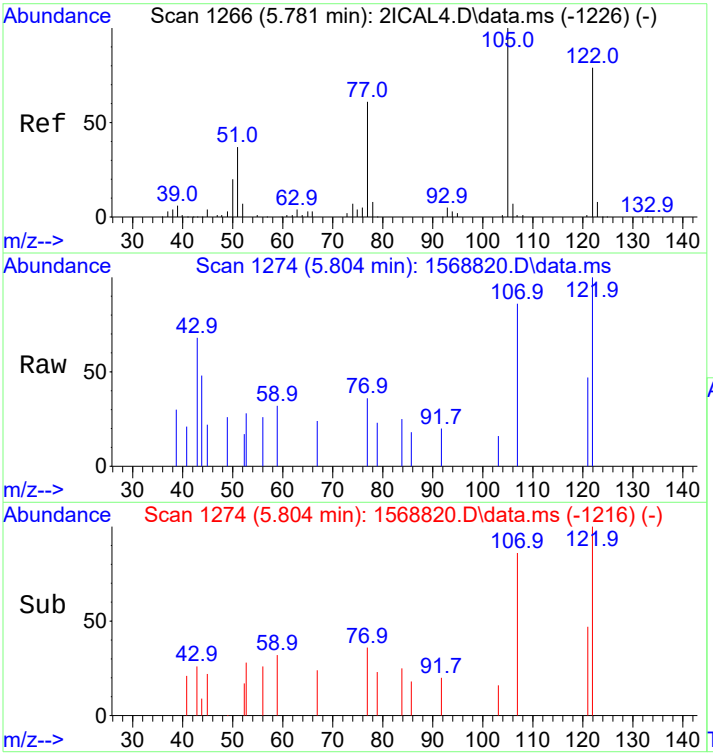
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568820.D Vial: 43
Acq On : 11 Apr 2025 1:03 Operator: ALD
Sample : 290730,1568820,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 01:20:16 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

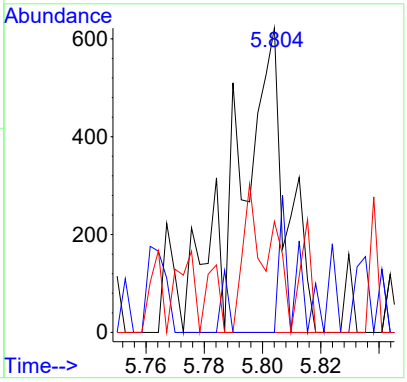


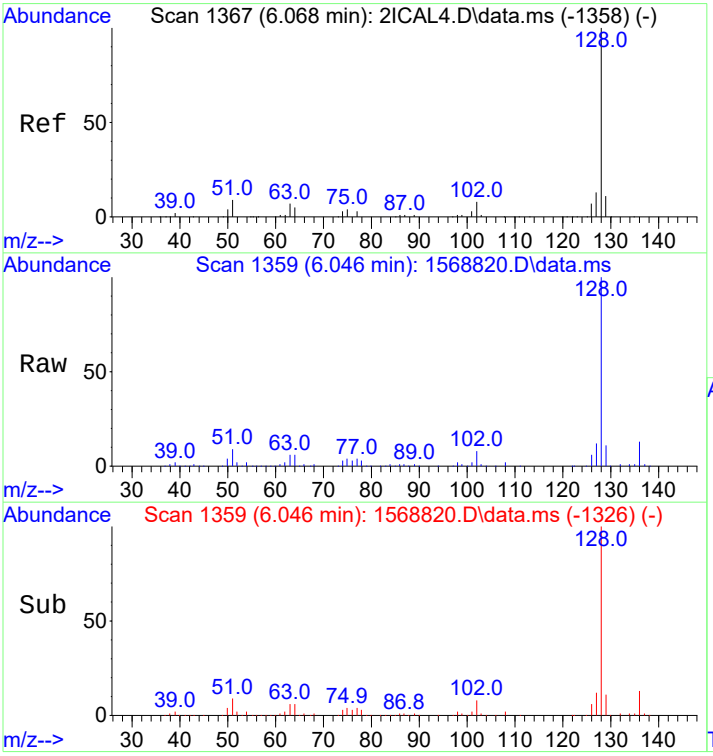



#30
Benzoic acid
Concen: 3.03 ug/mL
RT: 5.804 min Scan# 1274
Delta R.T. 0.034 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:122 Resp: 731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 0.0 | 96.0 | 156.0# |
| 77 | 36.5 | 46.6 | 106.6# |

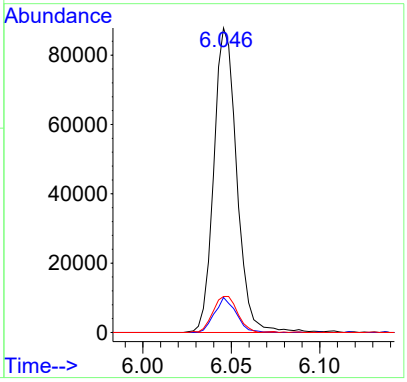


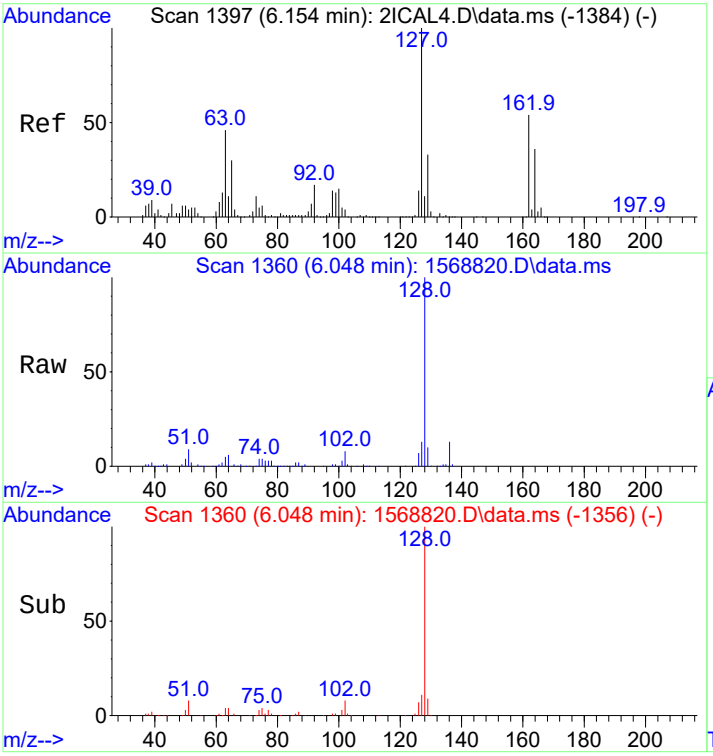




#31
Naphthalene
Concen: 1.90 ug/mL
RT: 6.046 min Scan# 1359
Delta R.T. -0.006 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:128 Resp: 79323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.9 | 0.0 | 41.0 |
| 127 | 11.8 | 0.0 | 43.3 |

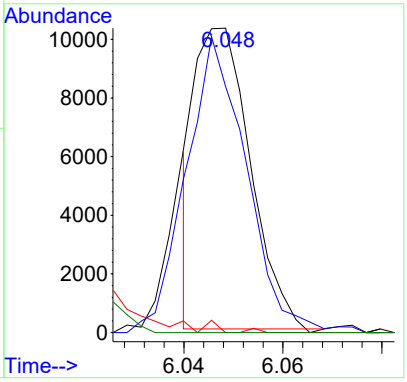


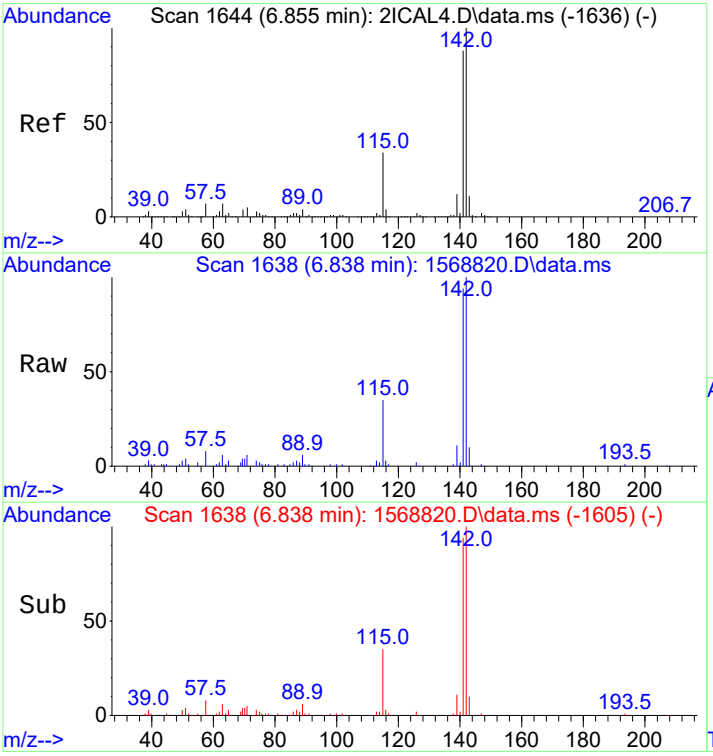



#32
4-Cl-aniline
Concen: 0.49 ug/mL
RT: 6.048 min Scan# 1360
Delta R.T. -0.088 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:127 Resp: 7943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 80.5 | 3.1 | 63.1# |
| 65 | 0.0 | 0.2 | 60.2# |
| 92 | 0.0 | 0.0 | 46.7 |

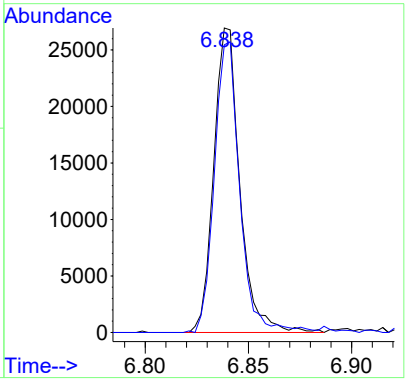


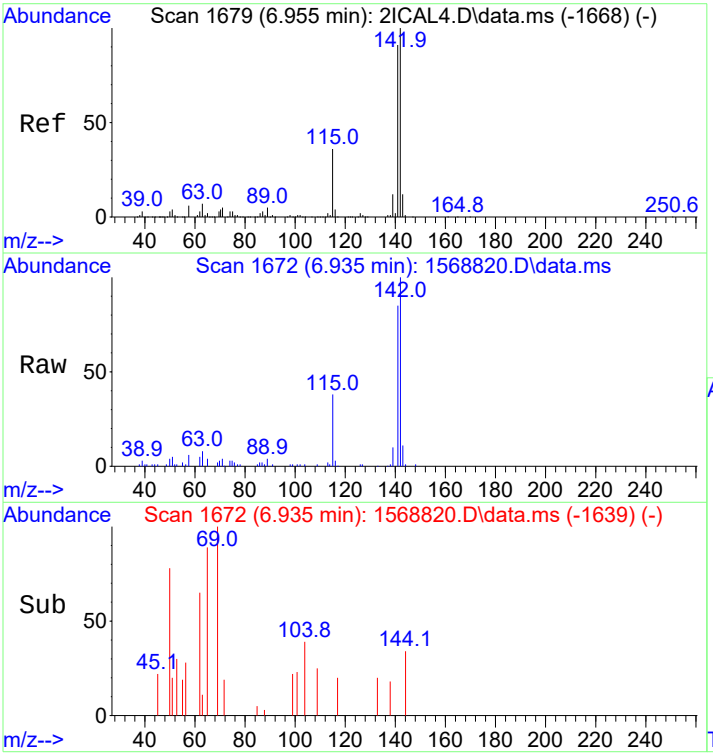




#37
2Methylnaphth
Concen: 0.94 ug/mL
RT: 6.838 min Scan# 1638
Delta R.T. -0.006 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:142 Resp: 23723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 94.5 | 58.0 | 118.0 |

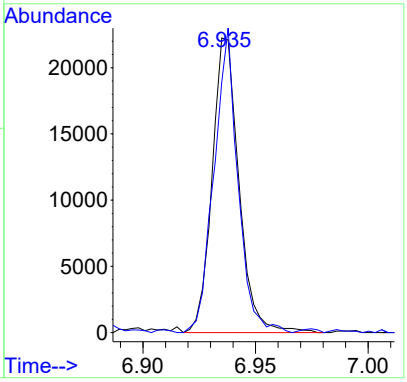


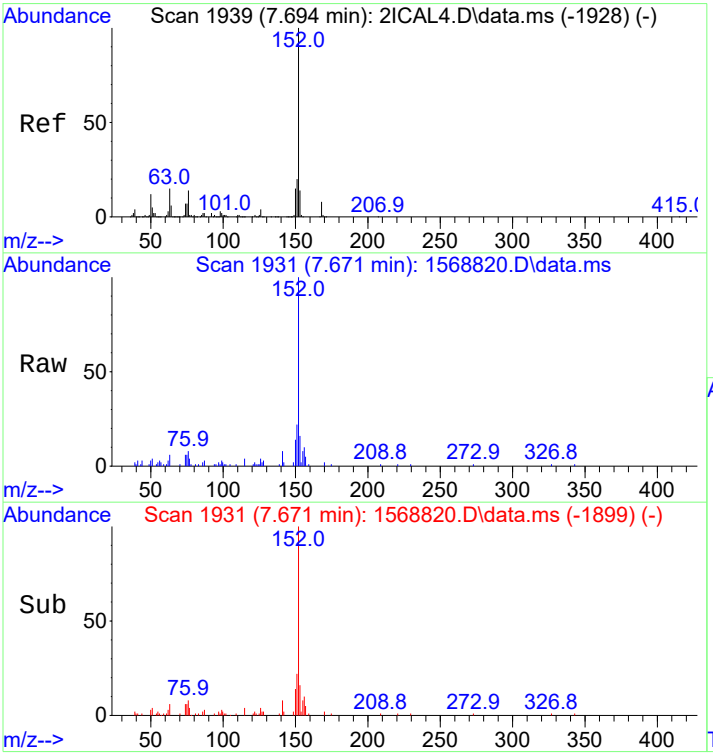



#38
1Methylnaphth
Concen: 0.71 ug/mL
RT: 6.935 min Scan# 1672
Delta R.T. -0.006 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:142 Resp: 18514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 85.0 | 60.7 | 120.7 |

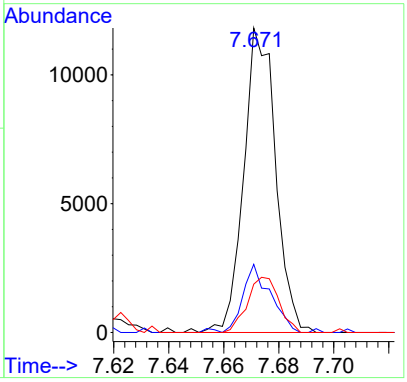


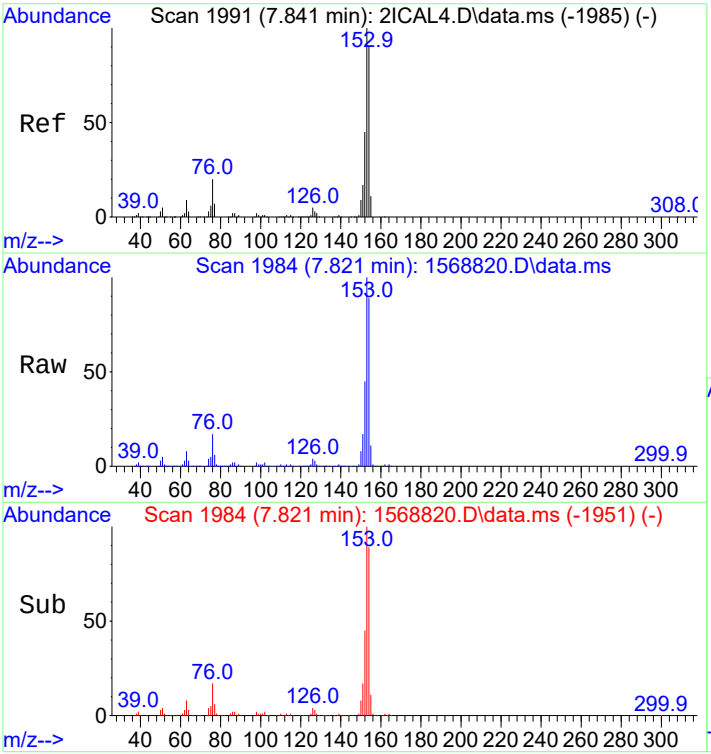




#47
Acnaphthylene
Concen: 0.23 ug/mL
RT: 7.671 min Scan# 1931
Delta R.T. -0.008 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:152 Resp: 9511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 22.4 | 0.0 | 50.3 |
| 153 | 17.7 | 0.0 | 44.4 |

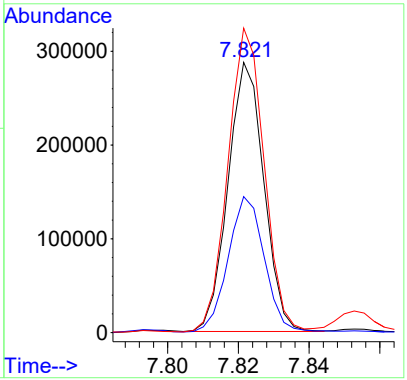


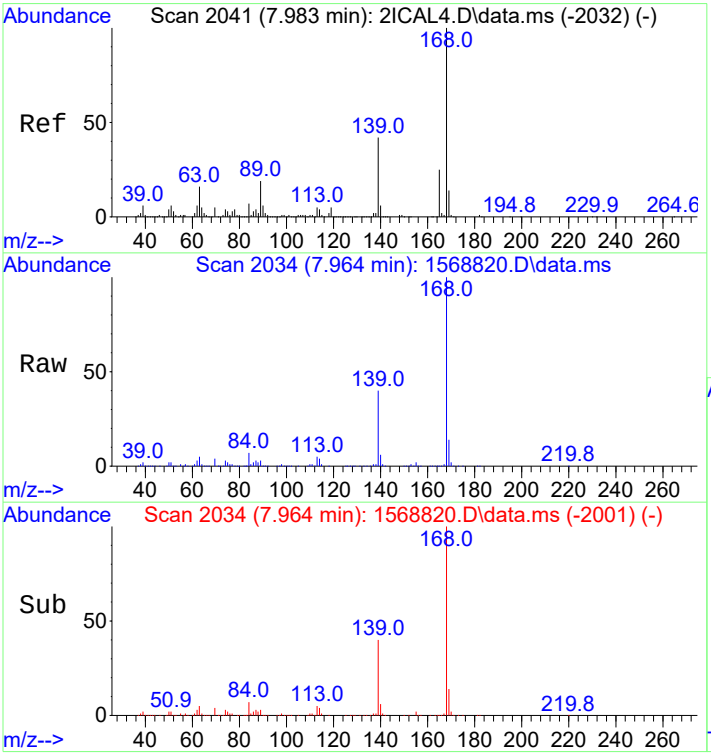



#50
Acenaphthene
Concen: 8.14 ug/mL
RT: 7.821 min Scan# 1984
Delta R.T. -0.006 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:154 Resp: 202393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 50.1 | 20.0 | 80.0 |
| 153 | 112.9 | 80.7 | 140.7 |

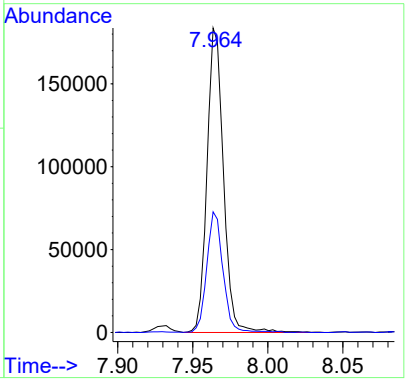


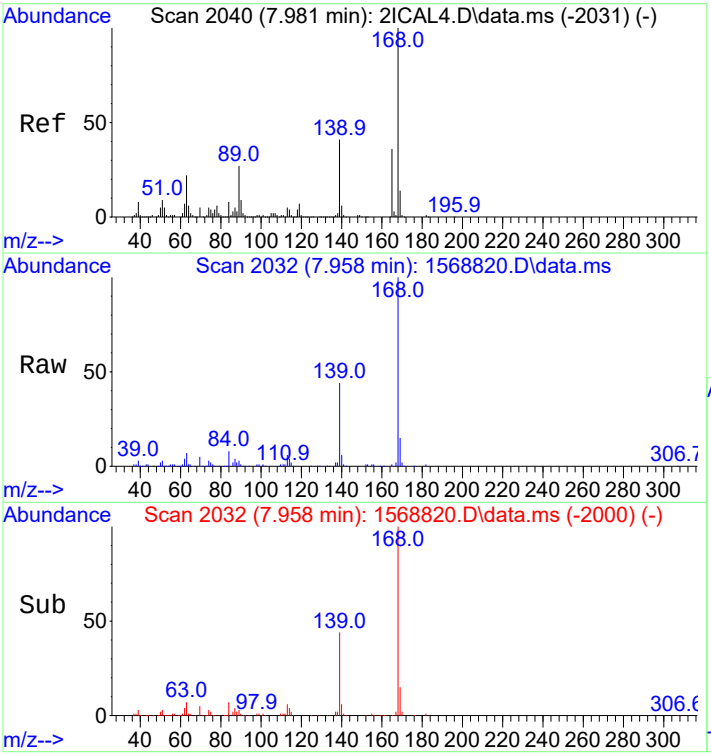




#53
Dibenzofuran
Concen: 3.90 ug/mL
RT: 7.964 min Scan# 2034
Delta R.T. -0.006 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:168 Resp: 140045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.6 | 11.9 | 71.9 |

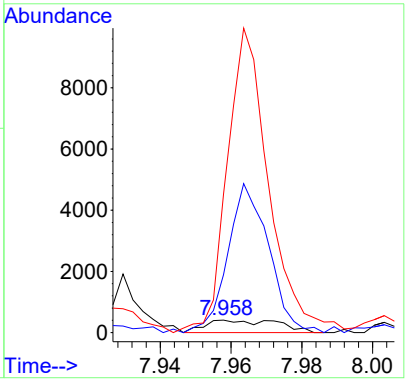


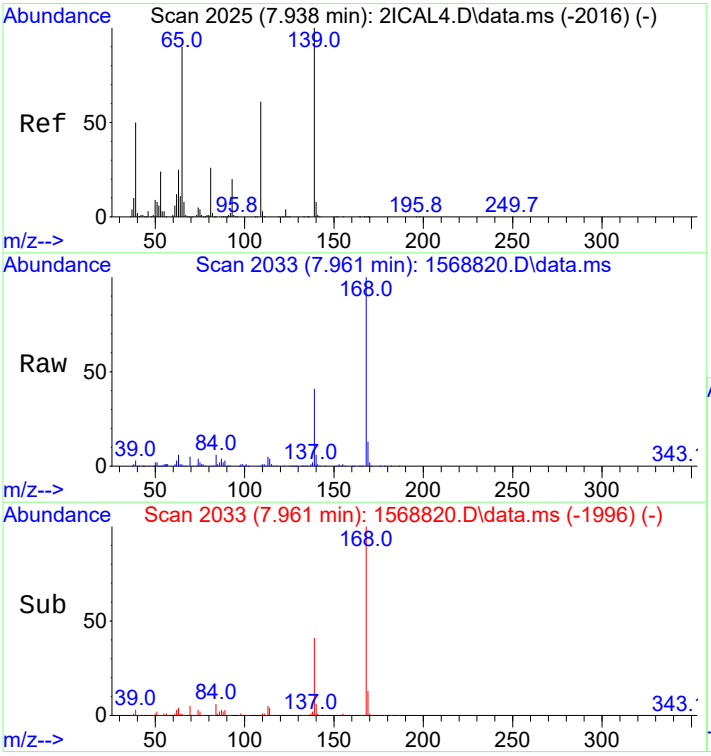



#54
24Dinitrotolu
Concen: 0.06 ug/mL
RT: 7.958 min Scan# 2032
Delta R.T. -0.008 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:165 Resp: 586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 467.4 | 46.1 | 106.1# |
| 63 | 1082.0 | 32.6 | 92.6# |

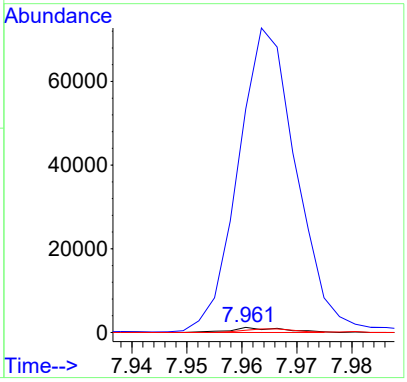


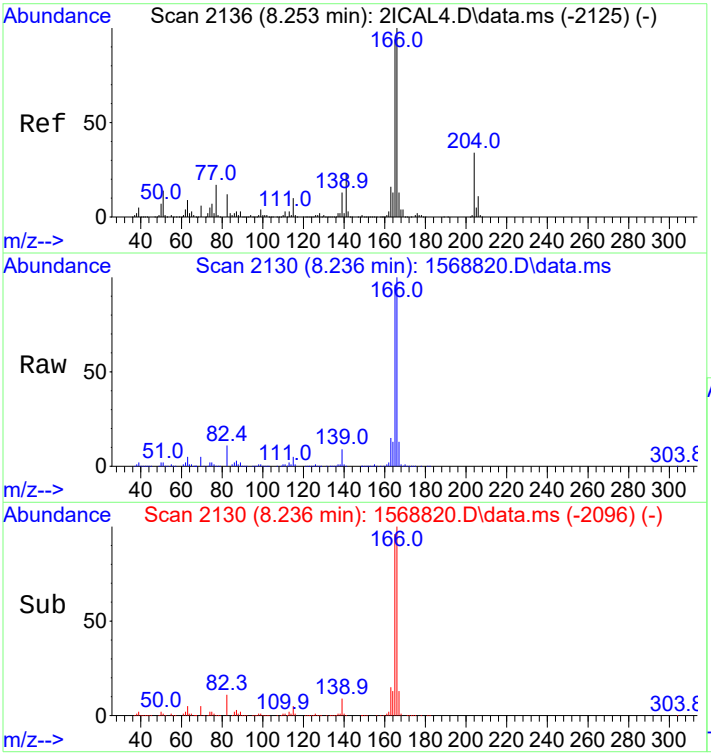




#55
4-Nitrophenol
Concen: 1.41 ug/mL
RT: 7.961 min Scan# 2033
Delta R.T. 0.040 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion: 65 Resp: 811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 4308.5 | 80.5 | 140.5# |
| 109 | 43.8 | 37.6 | 97.6 |

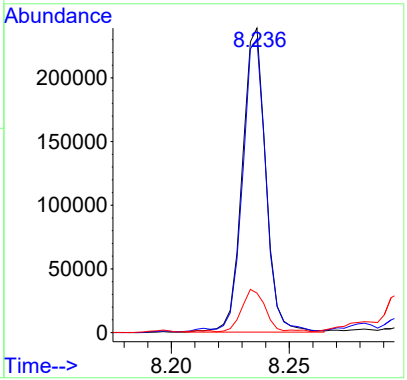


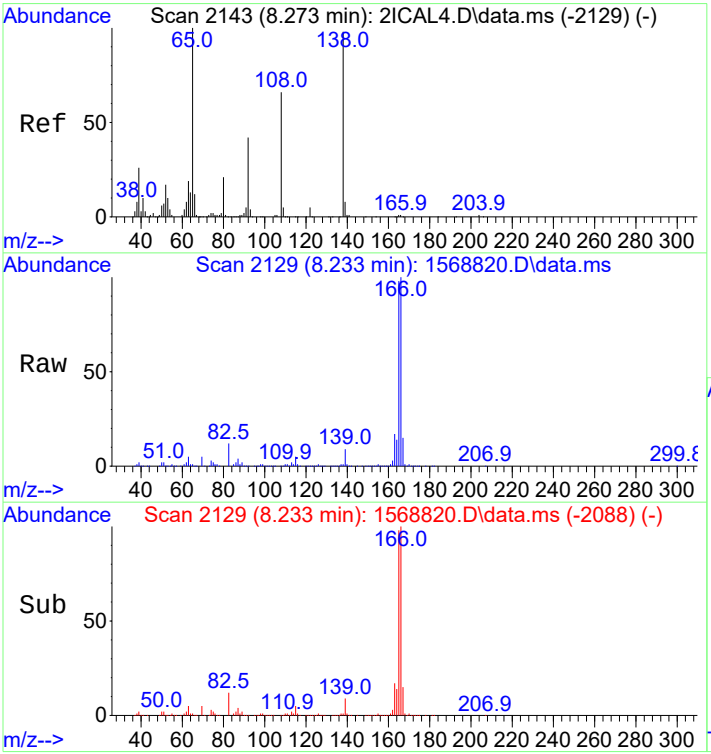



#58
Fluorene
Concen: 6.04 ug/mL
RT: 8.236 min Scan# 2130
Delta R.T. -0.003 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:166 Resp: 165932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.2 | 63.6 | 123.6 |
| 167 | 12.7 | 0.0 | 43.3 |

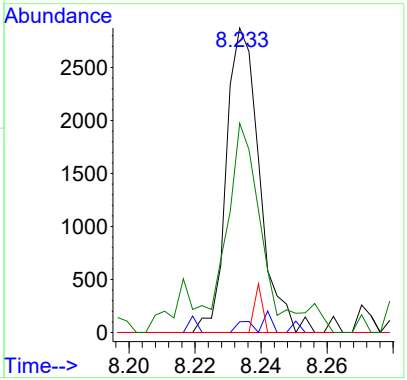


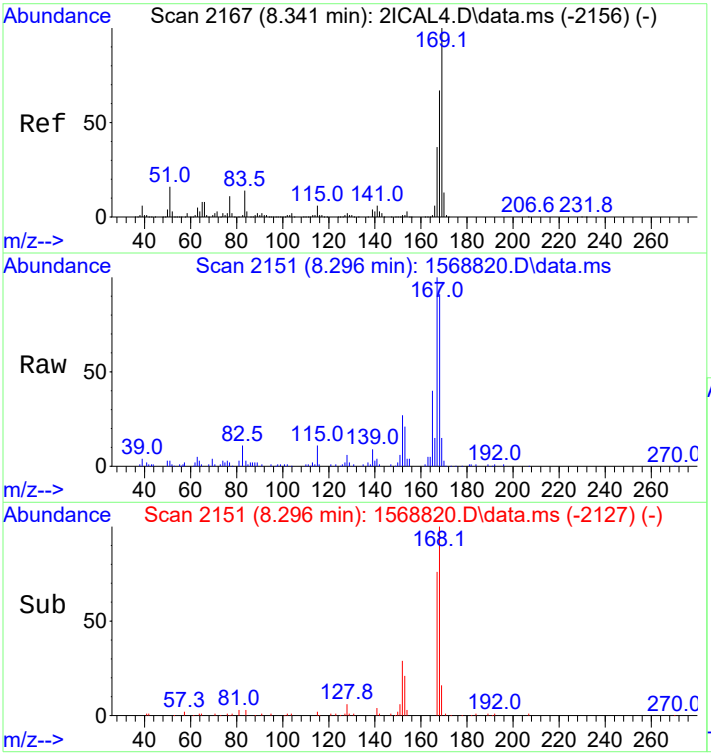




#61
4Nitroaniline
Concen: 0.63 ug/mL
RT: 8.233 min Scan# 2129
Delta R.T. -0.023 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:138 Resp: 2005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 3.5 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 64.1 | 71.1 | 131.1# |

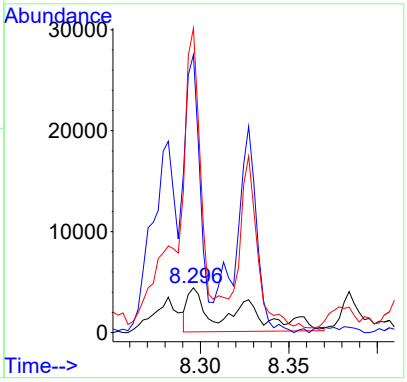


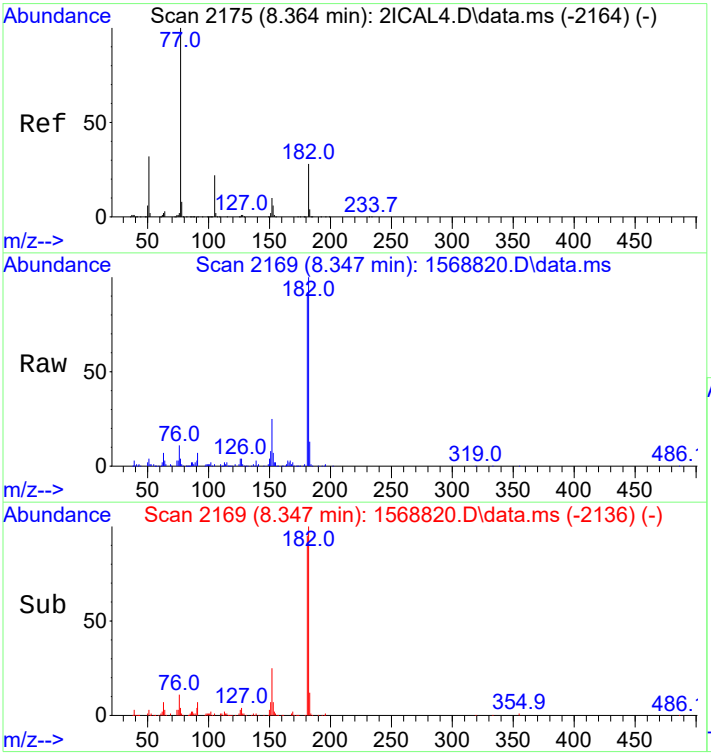



#65
Ntrsdiphlam&Diphlam
Concen: 0.38 ug/mL
RT: 8.296 min Scan# 2151
Delta R.T. -0.031 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:169 Resp: 7515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 675.8 | 37.2 | 97.2# |
| 167 | 727.5 | 6.9 | 66.9# |

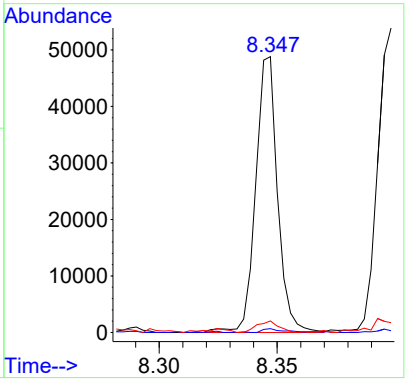


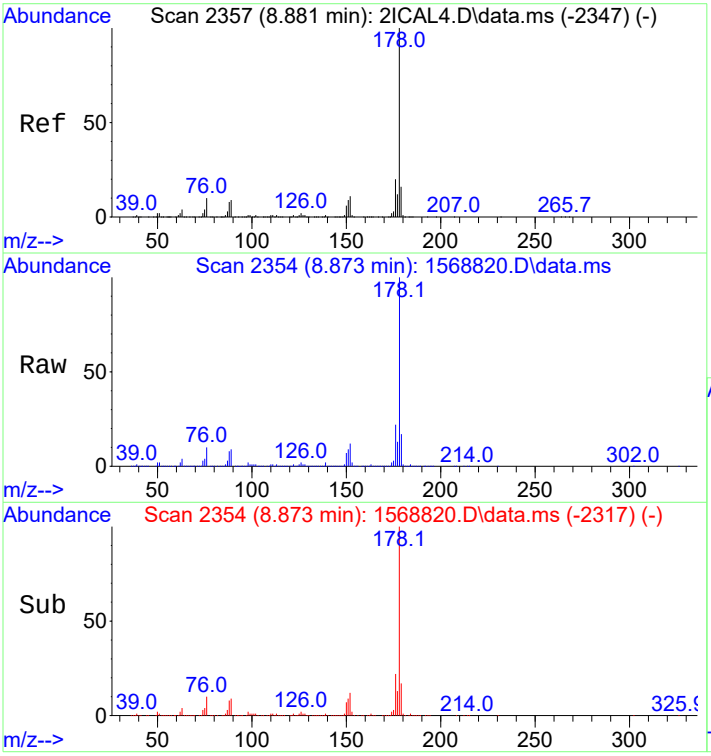




#66
Azobenz&12Diphlhyd
Concen: 4.42 ug/mL
RT: 8.347 min Scan# 2169
Delta R.T. -0.006 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:182 Resp: 31538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 1.4 | 49.9 | 109.9# |
| 77 | 4.2 | 339.9 | 399.9# |

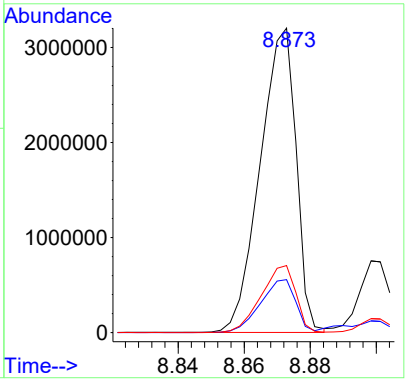


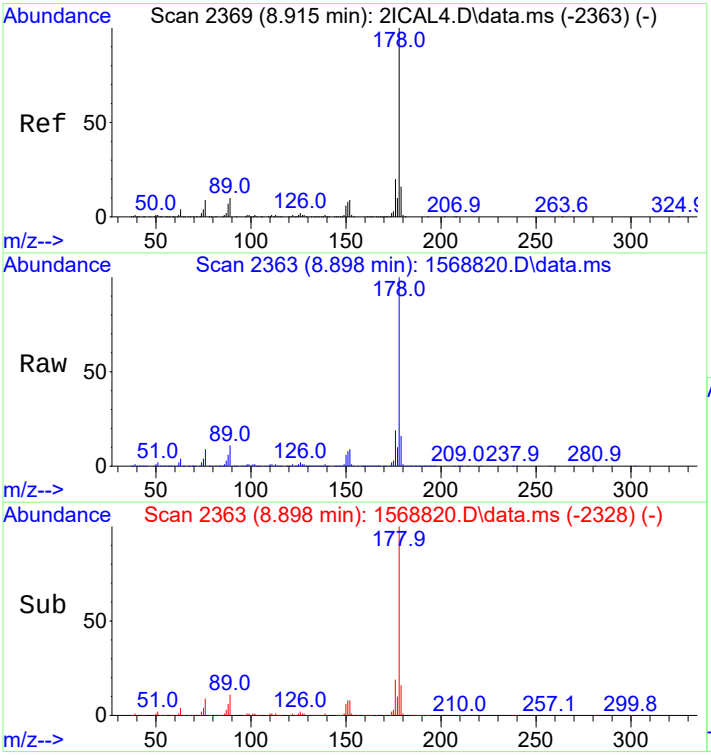



#70
Phenanthrene
Concen: 64.11 ug/mL
RT: 8.873 min Scan# 2354
Delta R.T. 0.006 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:178 Resp: 2421994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 17.4 | 0.0 | 45.9 |
| 176 | 22.0 | 0.0 | 50.4 |

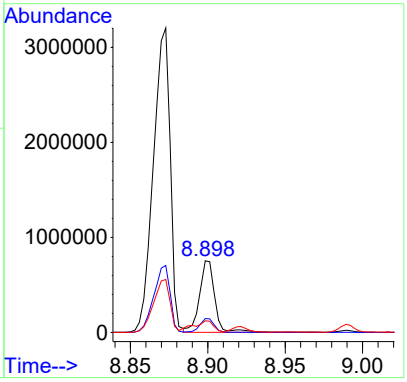


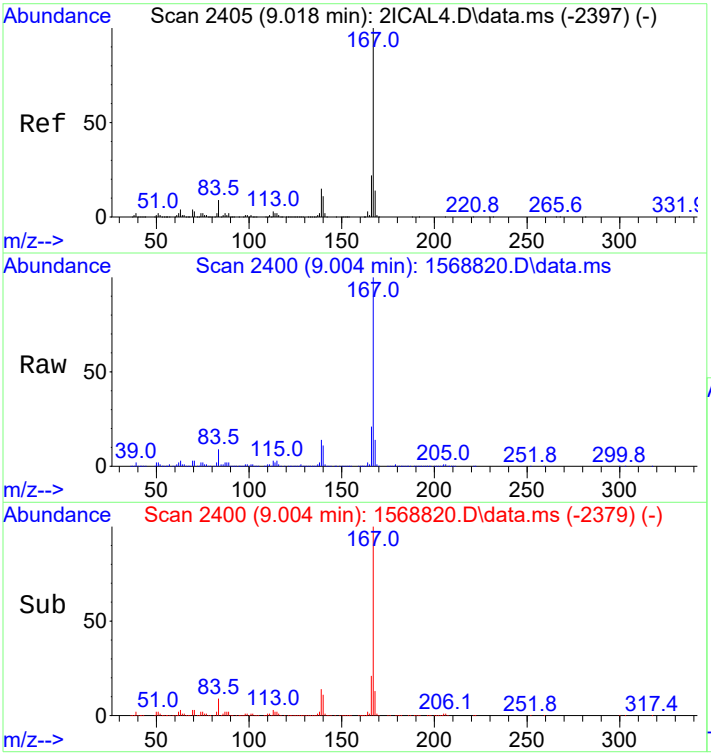




#71
Anthracene
Concen: 13.41 ug/mL
RT: 8.898 min Scan# 2363
Delta R.T. 0.000 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:178 Resp: 515333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 0.0 | 49.5 |
| 179 | 16.2 | 0.0 | 45.9 |

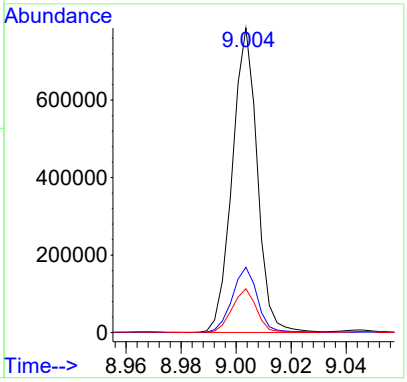


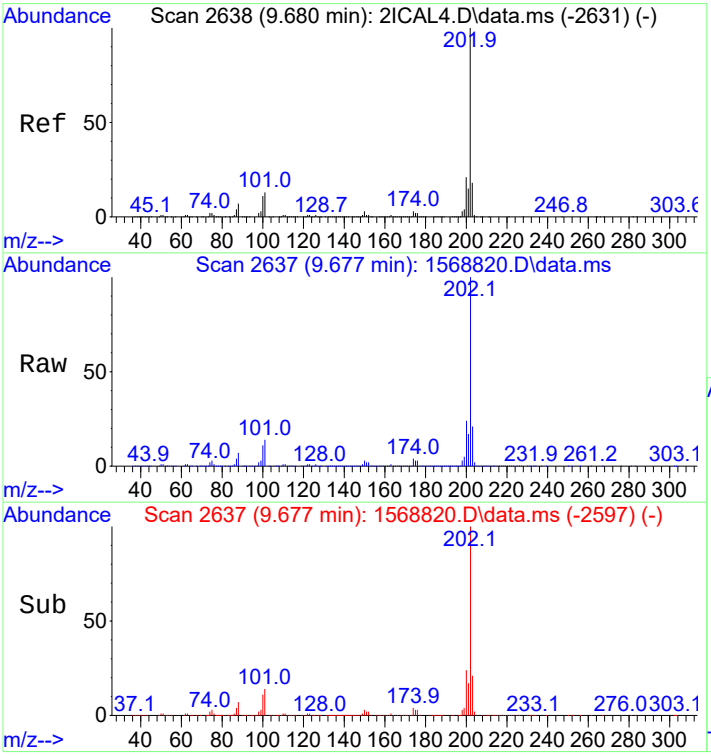



#72
Carbazole
Concen: 15.12 ug/mL
RT: 9.004 min Scan# 2400
Delta R.T. 0.000 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:167 Resp: 494935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.4 | 0.0 | 52.1 |
| 139 | 14.3 | 0.0 | 44.7 |

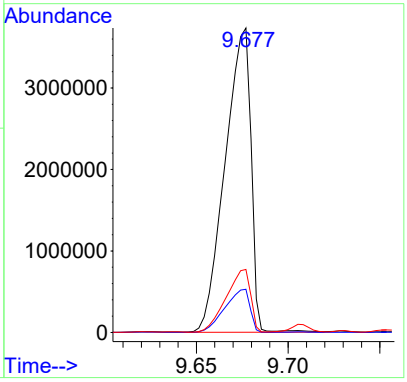


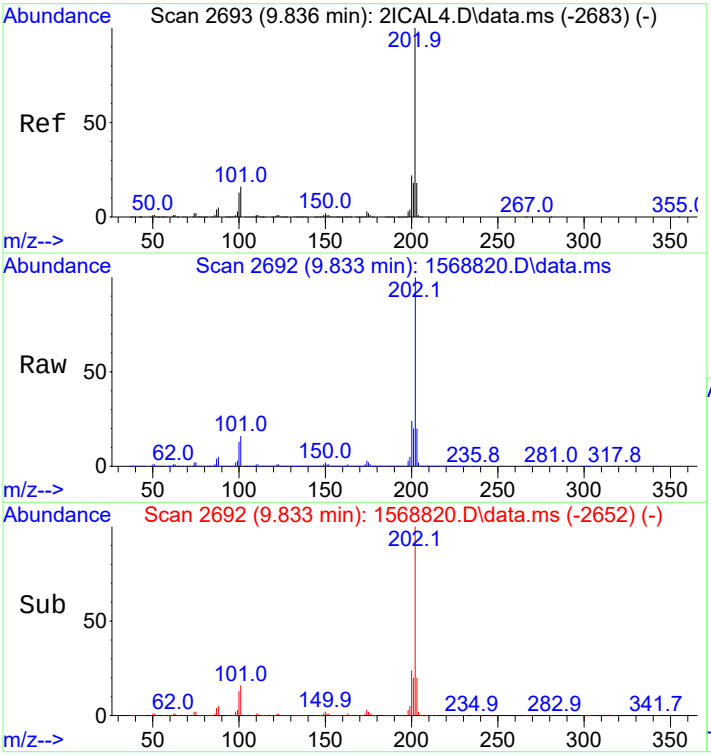




#74
Fluoranthene
Concen: 91.76 ug/mL
RT: 9.677 min Scan# 2637
Delta R.T. 0.014 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:202 Resp: 3660319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.2 | 0.0 | 43.0 |
| 203 | 20.6 | 0.0 | 48.2 |

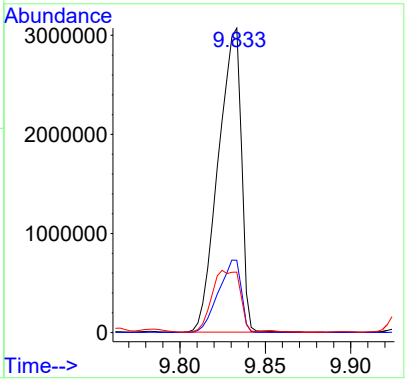


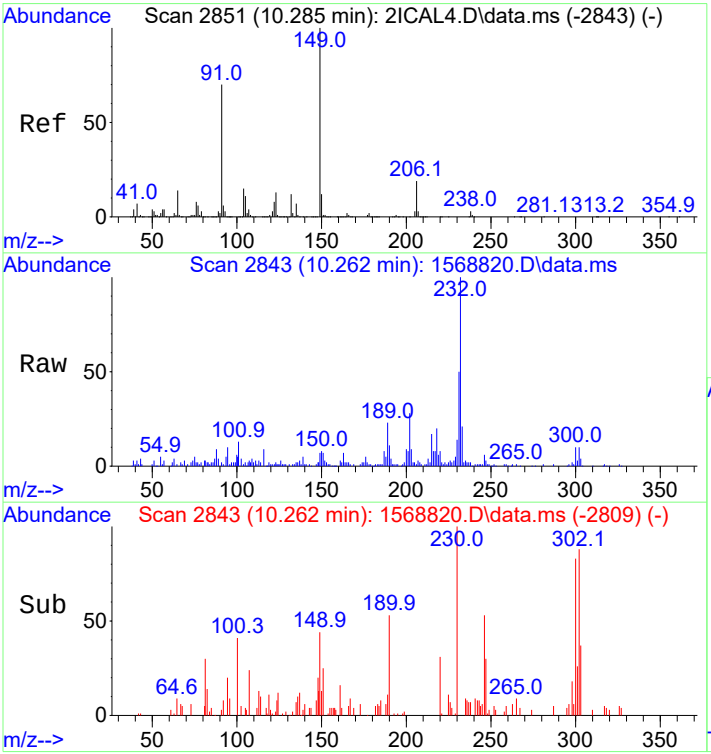



#77
Pyrene
Concen: 73.91 ug/mL
RT: 9.833 min Scan# 2692
Delta R.T. 0.014 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:202 Resp: 2888375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 23.7 | 0.0 | 52.2 |
| 203 | 19.8 | 0.0 | 48.2 |

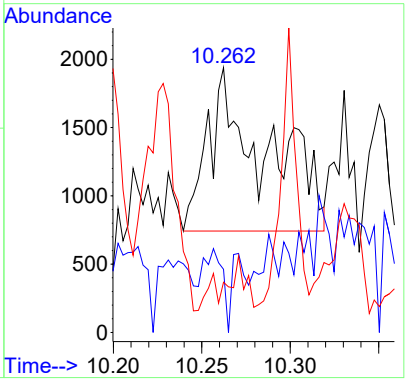


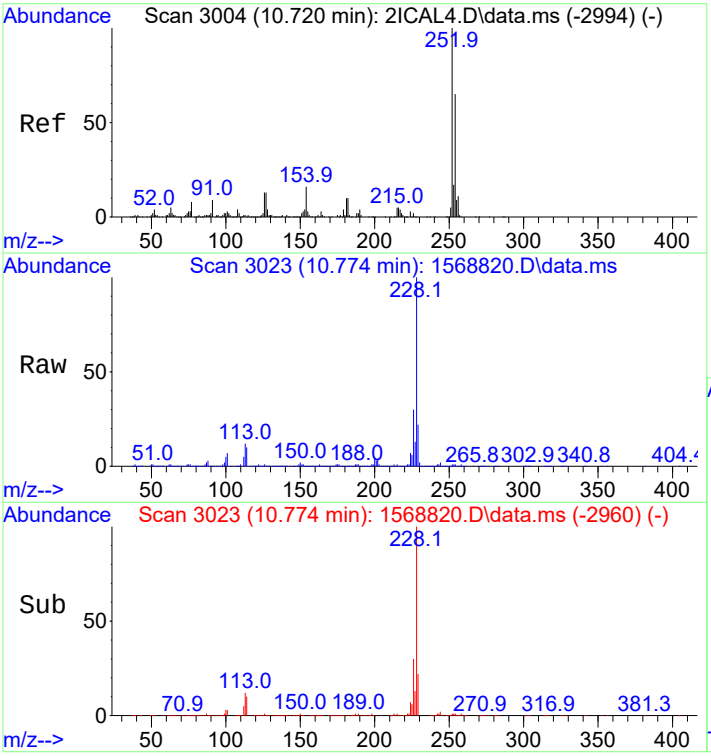




#79
Btylbzylphth
Concen: 0.14 ug/mL
RT: 10.262 min Scan# 2843
Delta R.T. -0.003 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:149 Resp: 2734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 0.0 | 40.1 | 100.1# |
| 206 | 0.0 | 0.0 | 49.4 |

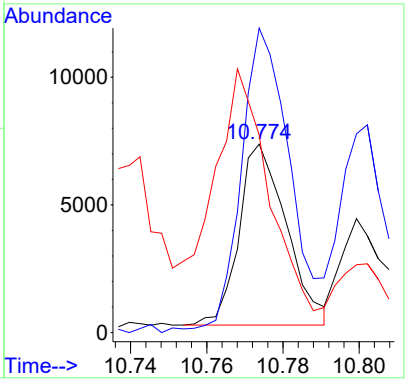


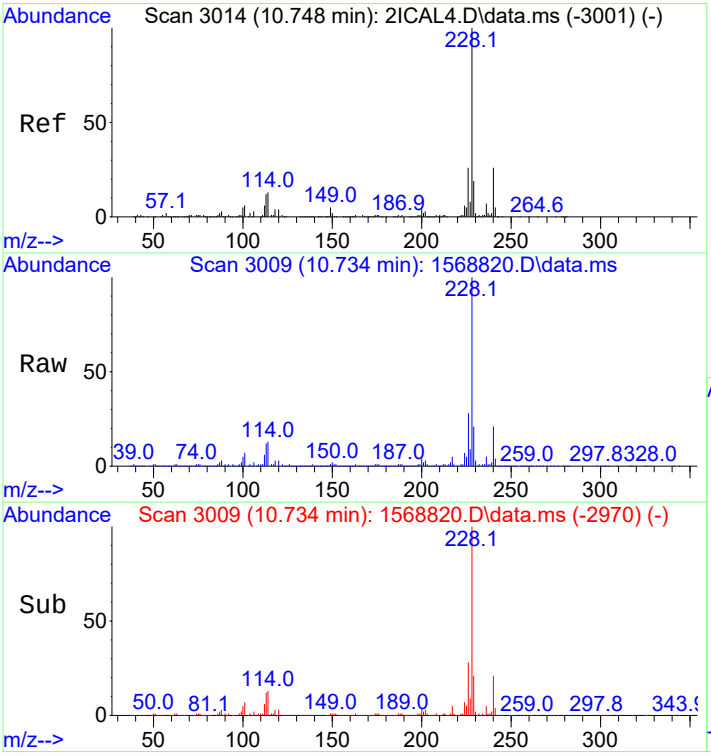



#81
33Diclbnzidin
Concen: 0.51 ug/mL
RT: 10.774 min Scan# 3023
Delta R.T. 0.080 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:252 Resp: 6121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 166.3 | 34.6 | 94.6# |
| 126 | 95.4 | 0.0 | 42.6# |

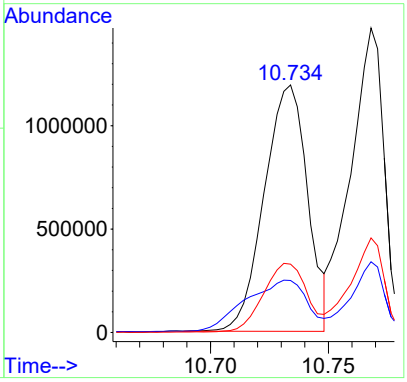


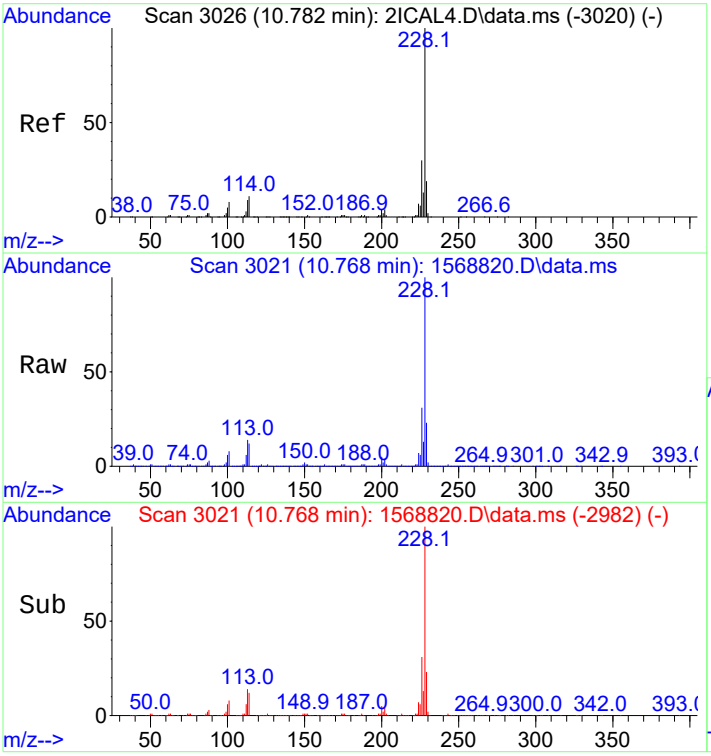




#82
B[a]anthracen
Concen: 41.12 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. 0.011 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:228 Resp: 1523152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.6 | 0.0 | 49.4 |
| 226 | 27.6 | 0.0 | 56.5 |

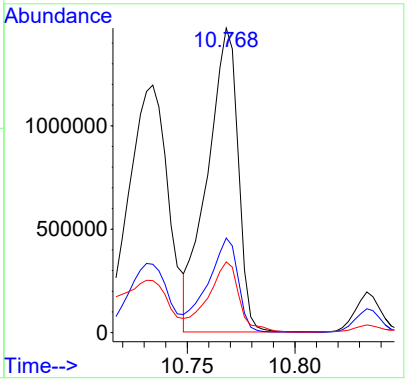


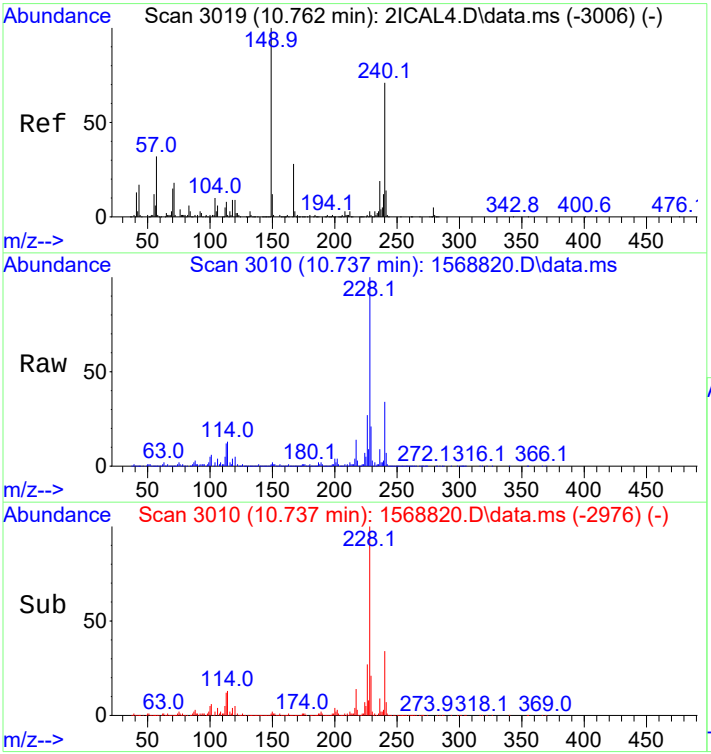



#83
Chrysene
Concen: 41.98 ug/mL
RT: 10.768 min Scan# 3021
Delta R.T. 0.011 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:228 Resp: 1458367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.0 | 0.0 | 59.9 |
| 229 | 23.0 | 0.0 | 49.5 |

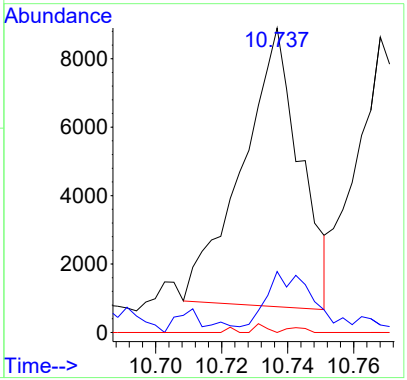


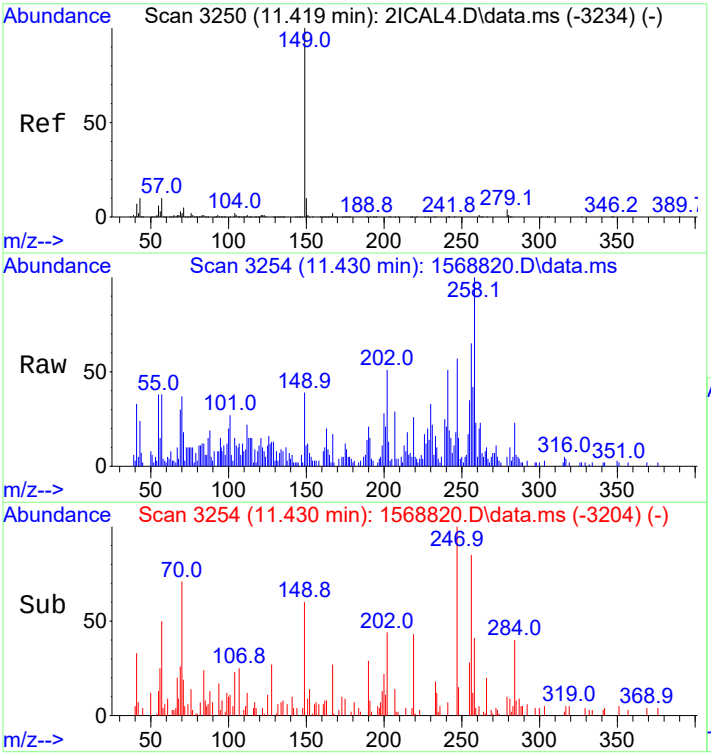




#84
bis2Ethlhxlph
Concen: 0.35 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. -0.003 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:149 Resp: 9933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 16.0 | 0.0 | 57.9 |
| 279 | 0.0 | 0.0 | 34.9 |

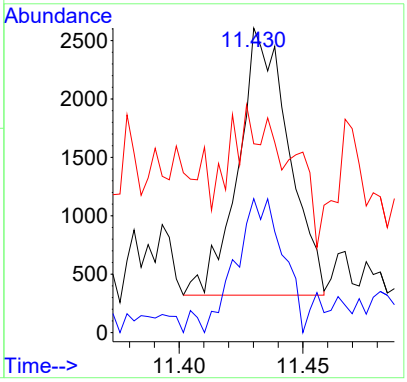


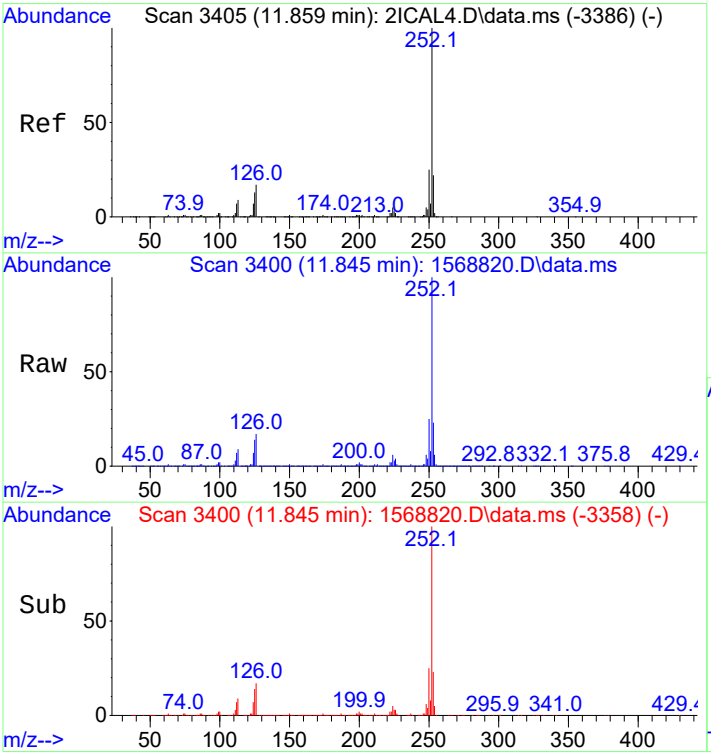



#85
Dinoctylphthl
Concen: 0.38 ug/mL
RT: 11.430 min Scan# 3254
Delta R.T. 0.043 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:149 Resp: 3245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 56.4 | 0.0 | 31.6# |
| 43 | 0.0 | 0.0 | 39.9 |

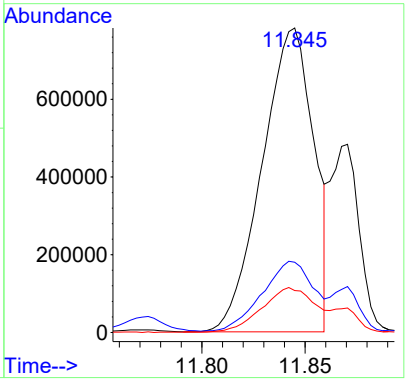


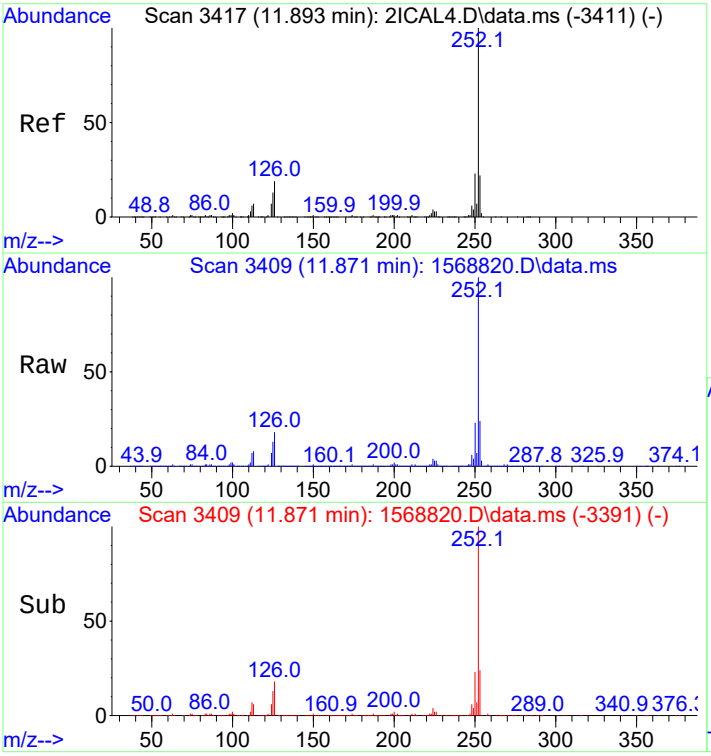




#87
B[b]fluoranth
Concen: 70.00 ug/mL
RT: 11.845 min Scan# 3400
Delta R.T. 0.020 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:252 Resp: 1361221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 0.0 | 52.3 |
| 125 | 13.7 | 0.0 | 43.2 |

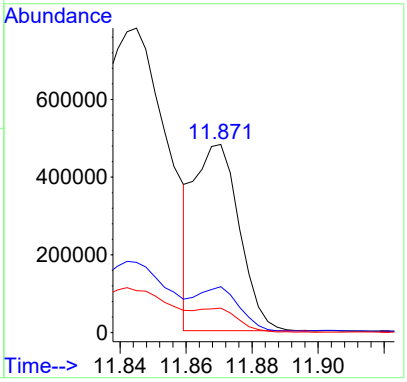


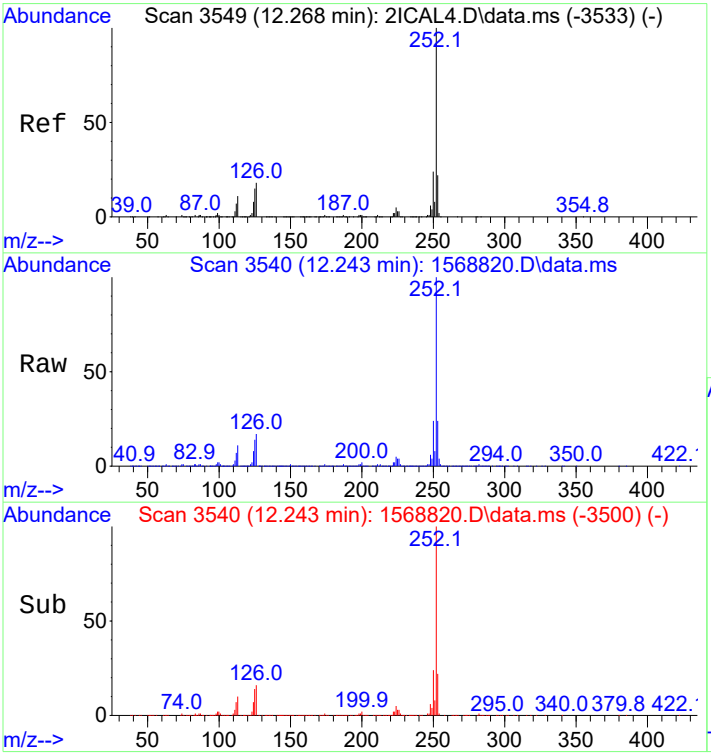



#88
B[k]fluoranth
Concen: 23.32 ug/mL
RT: 11.871 min Scan# 3409
Delta R.T. 0.011 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:252 Resp: 454368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.5 | 0.0 | 52.0 |
| 125 | 12.9 | 0.0 | 43.3 |

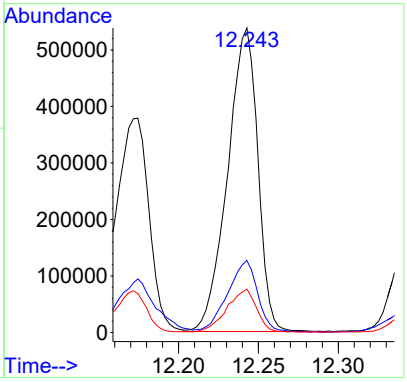


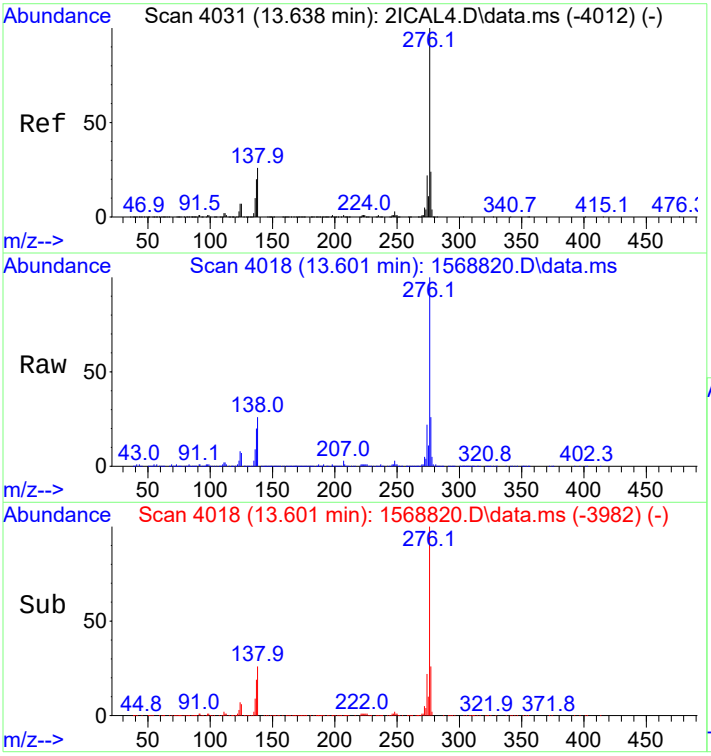




#89
Benz[a]pyrene
Concen: 39.50 ug/mL
RT: 12.243 min Scan# 3540
Delta R.T. 0.014 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:252 Resp: 706475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.6 | 0.0 | 52.3 |
| 125 | 14.3 | 0.0 | 45.1 |

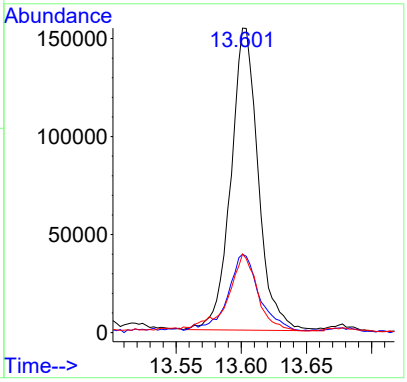


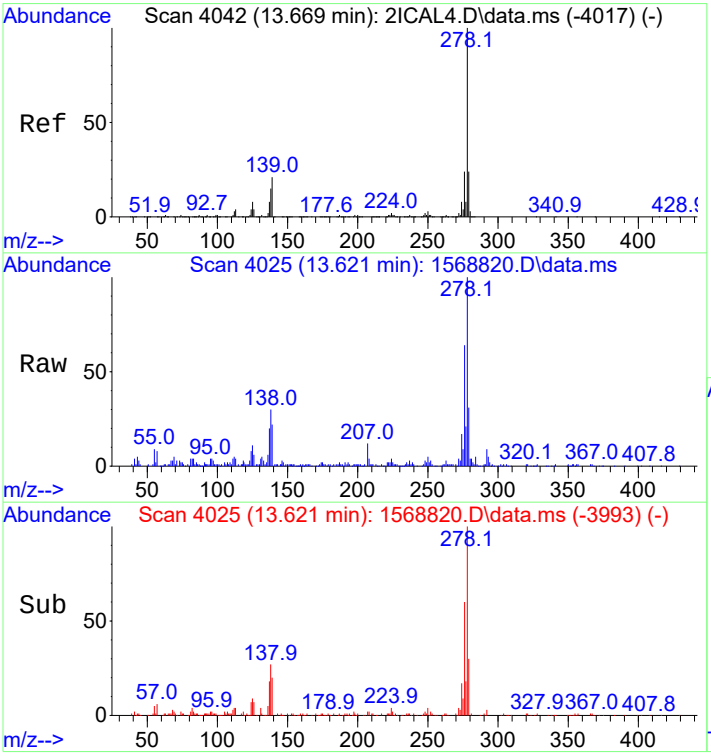



#90
Indeno-pyrene
Concen: 11.41 ug/mL
RT: 13.601 min Scan# 4018
Delta R.T. 0.003 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:276 Resp: 225748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.3 | 0.0 | 55.5 |
| 277 | 25.2 | 0.0 | 54.0 |

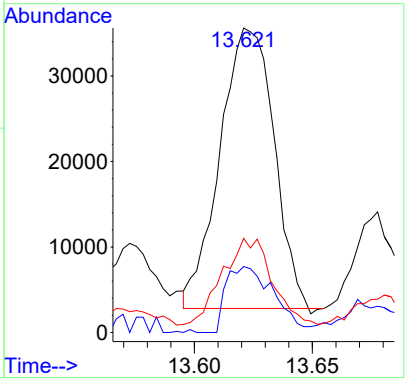


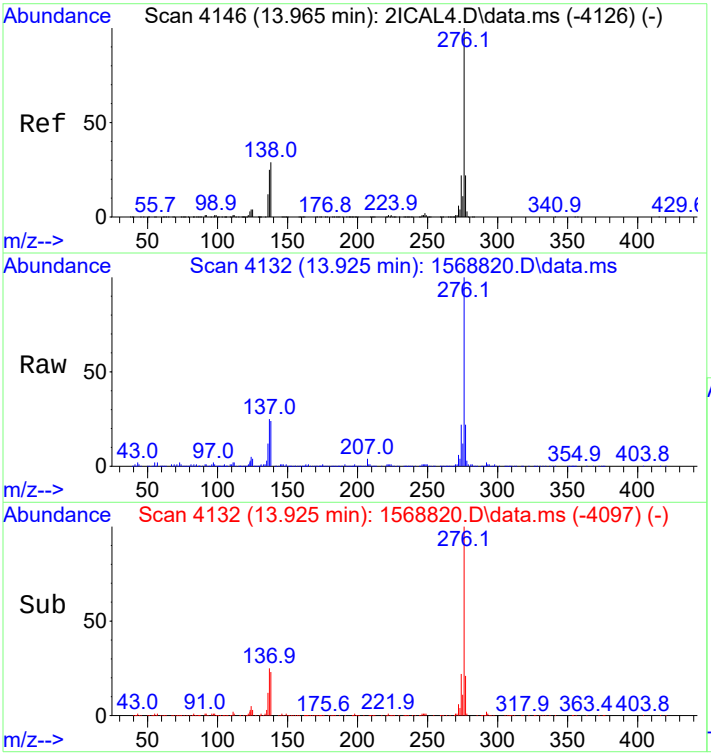




#91
Dib[ah]anthr
Concen: 3.23 ug/mL
RT: 13.621 min Scan# 4025
Delta R.T. -0.008 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:278 Resp: 52173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 23.5 | 0.0 | 50.9 |
| 279 | 30.7 | 0.0 | 54.4 |

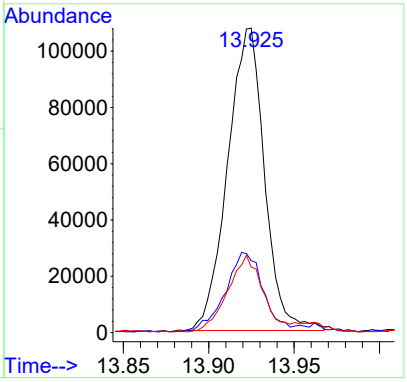





#92
B[ghi]perylen
Concen: 10.42 ug/mL
RT: 13.925 min Scan# 4132
Delta R.T. 0.000 min
Lab File: 1568820.D
Acq: 11 Apr 2025 1:03

Tgt Ion:276 Resp: 161441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.4 | 0.0 | 59.0 |
| 277 | 21.4 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568839D.D Vial: 4
Acq On : 11 Apr 2025 12:13 Operator: JJY
Sample : 290730,1568839,2 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:26 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 158877 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 748351 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 419277 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 618330 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 531861 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.274 | 264 | 535512 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.082 | 112 | 149436 | 39.07 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 39.07% | | | |
| 7) SURRPhenol-d5 | 3.895 | 99 | 194393 | 42.28 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 42.28% | | | |
| 22) SURRNitrbenzened5 | 4.989 | 82 | 86861 | 42.60 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 42.60% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 227744 | 45.53 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 45.53% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 54383 | 48.46 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 48.46% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 261546 | 50.43 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.43% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.252 | 74 | 295 | 0.0480 | ug/mL# | 1 |
| 3) Pyridine | 2.593 | 79 | 3743 | 0.3405 | ug/mL# | 63 |
| 14) bis2clispreth | 4.611 | 45 | 1466 | 0.0802 | ug/mL | 81 |
| 26) 24Dimthpheno | 5.662 | 122 | 9640 | 0.9585 | ug/mL# | 5 |
| 30) Benzoic acid | 5.662 | 122 | 11940 | 4.8223 | ug/mL | 80 |
| 31) Naphthalene | 6.026 | 128 | 12756 | 0.3696 | ug/mL | 94 |
| 37) 2Methylnaphth | 6.821 | 142 | 7418 | 0.3556 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.918 | 142 | 6259 | 0.2901 | ug/mL | 93 |
| 46) 2Nitroaniline | 7.330 | 65 | 1173 | 0.4521 | ug/mL# | 24 |
| 47) Acnaphthylene | 7.654 | 152 | 4056 | 0.1195 | ug/mL | 90 |
| 50) Acenaphthene | 7.804 | 154 | 62502 | 3.0992 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.762 | 138 | 669 | 0.3488 | ug/mL# | 33 |
| 53) Dibenzofuran | 7.949 | 168 | 35028 | 1.2028 | ug/mL | 90 |
| 56) 2,3,5,6-Tetrachlorop | 8.054 | 232 | 237 | 0.5919 | ug/mL# | 38 |
| 57) 2,3,4,6-Tetrachlorop | 8.054 | 232 | 237 | 0.3657 | ug/mL# | 31 |
| 58) Fluorene | 8.219 | 166 | 40875 | 1.8360 | ug/mL | 97 |
| 61) 4Nitroaniline | 8.219 | 138 | 536 | 0.4231 | ug/mL# | 54 |
| 65) Ntrsdiphlam&Diphlam | 8.307 | 169 | 3533 | 0.2216 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 10521 | 1.8507 | ug/mL# | 1 |
| 69) Pentaclphenol | 8.714 | 266 | 759 | 3.5195 | ug/mL# | 72 |
| 70) Phenanthrene | 8.850 | 178 | 777775 | 25.8185 | ug/mL | 99 |
| 71) Anthracene | 8.881 | 178 | 134727 | 4.3957 | ug/mL | 95 |
| 72) Carbazole | 8.986 | 167 | 148433 | 5.6873 | ug/mL | 97 |
| 74) Fluoranthene | 9.648 | 202 | 1219206 | 38.3273 | ug/mL | 99 |
| 76) Benzidine | 9.765 | 184 | 1245 | Below Cal | | 99 |
| 77) Pyrene | 9.805 | 202 | 968536 | 28.6695 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.748 | 252 | 1839 | 0.0038 | ug/mL# | 40 |
| 82) B[a]anthracen | 10.703 | 228 | 492838 | 15.3910 | ug/mL | 99 |
| 83) Chrysene | 10.734 | 228 | 492264 | 16.3919 | ug/mL | 97 |
| 84) bis2Ethlhxlph | 10.714 | 149 | 9336 | 0.3831 | ug/mL | 98 |
| 87) B[b]fluoranth | 11.799 | 252 | 653836 | 23.0492 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.825 | 252 | 201843 | 7.1018 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.197 | 252 | 374730 | 14.3643 | ug/mL | 97 |
| 90) Indeno-pyrene | 13.567 | 276 | 237850 | 8.2433 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568839D.D Vial: 4
Acq On : 11 Apr 2025 12:13 Operator: JJY
Sample : 290730,1568839,2 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:26 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

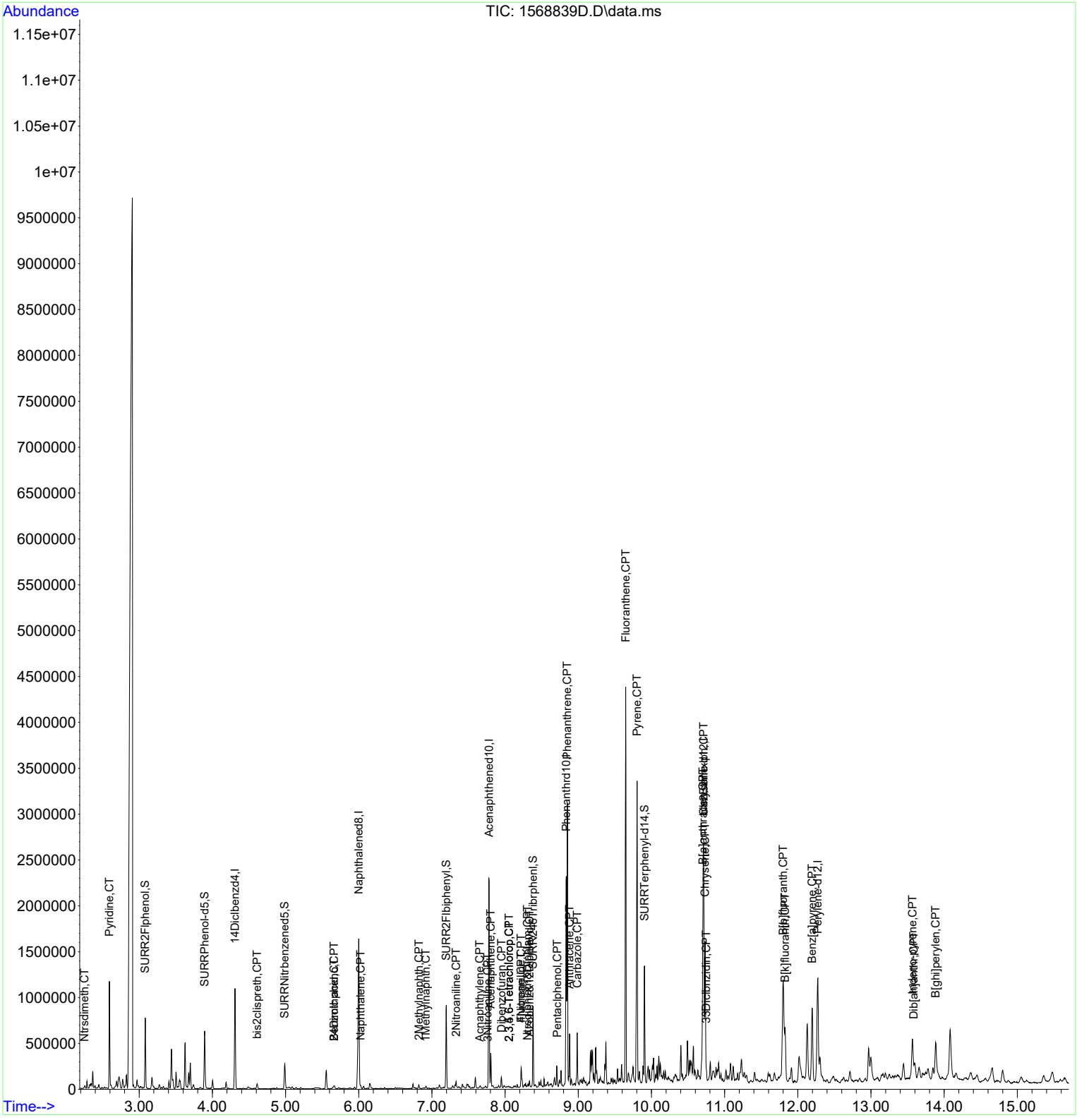
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) Dib[ah]anthr | 13.584 | 278 | 51619 | 2.1885 | ug/mL | 94 |
| 92) B[ghi]perylen | 13.882 | 276 | 202696 | 8.9664 | ug/mL | 96 |

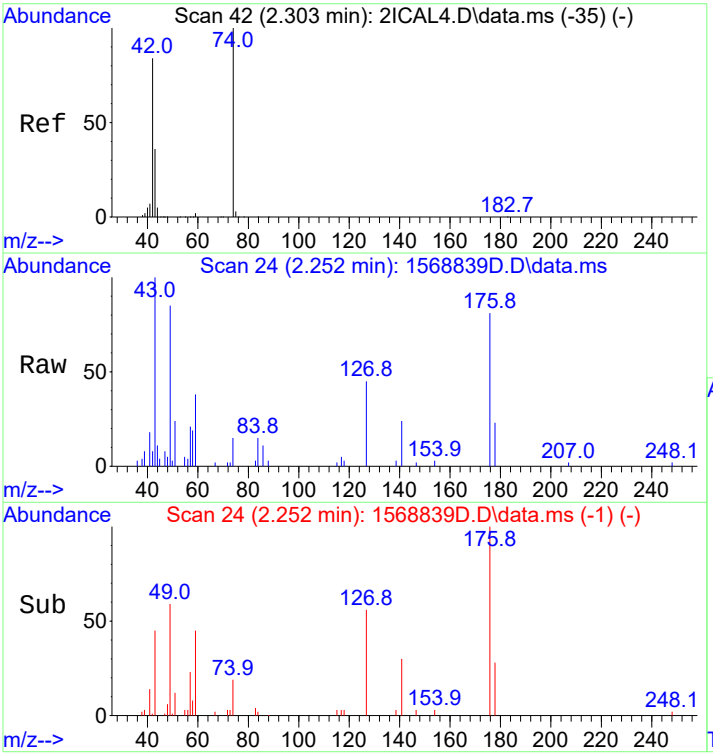
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568839D.D Vial: 4
Acq On : 11 Apr 2025 12:13 Operator: JJY
Sample : 290730,1568839,2 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:26 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

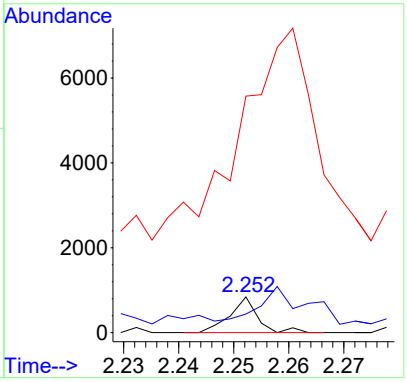


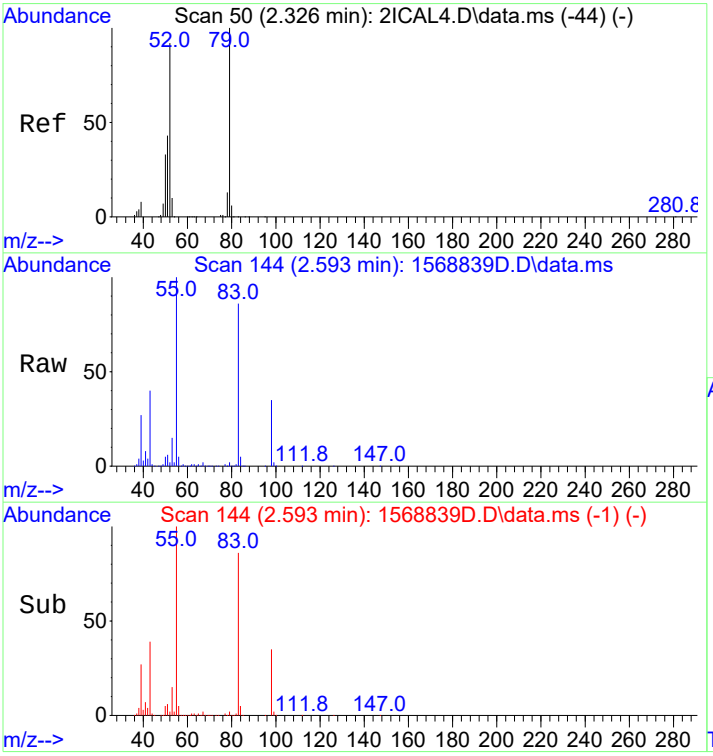



#2
Ntrsdimeth
Concen: 0.05 ug/mL
RT: 2.252 min Scan# 24
Delta R.T. -0.023 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion: 74 Resp: 295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 12.8 | 53.9 | 113.9# |
| 43 | 245.1 | 6.0 | 66.0# |

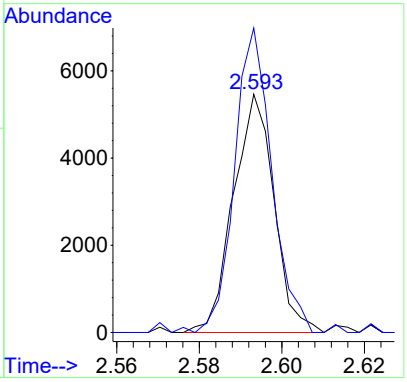


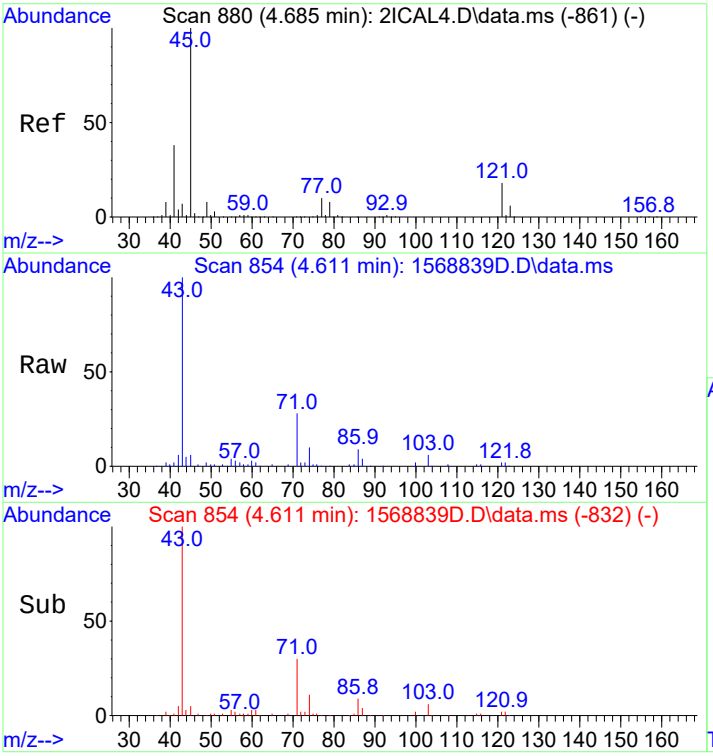




#3
Pyridine
Concen: 0.34 ug/mL
RT: 2.593 min Scan# 144
Delta R.T. 0.298 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion: 79 Resp: 3743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 127.8 | 62.5 | 122.5# |

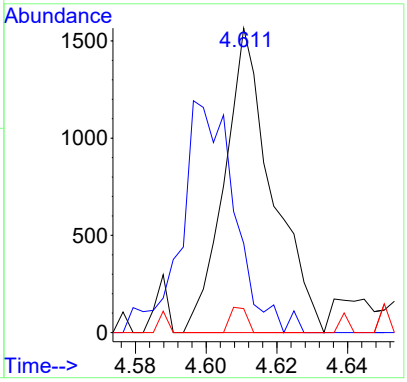


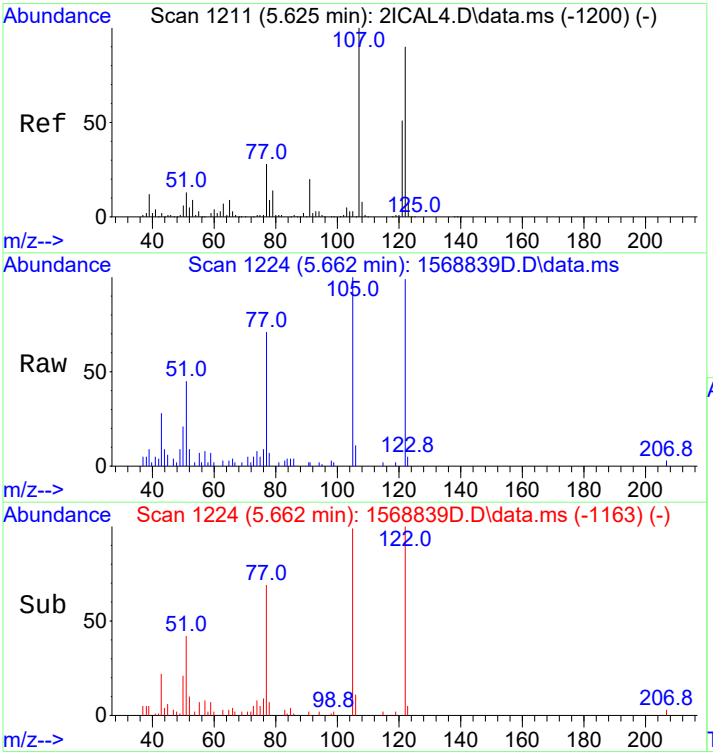



#14
bis2clispreth
Concen: 0.08 ug/mL
RT: 4.611 min Scan# 854
Delta R.T. -0.037 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion: 45 Resp: 1466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 29.3 | 0.0 | 47.5 |
| 77 | 7.9 | 0.0 | 40.1 |

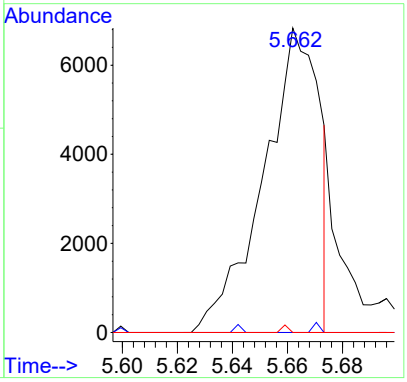


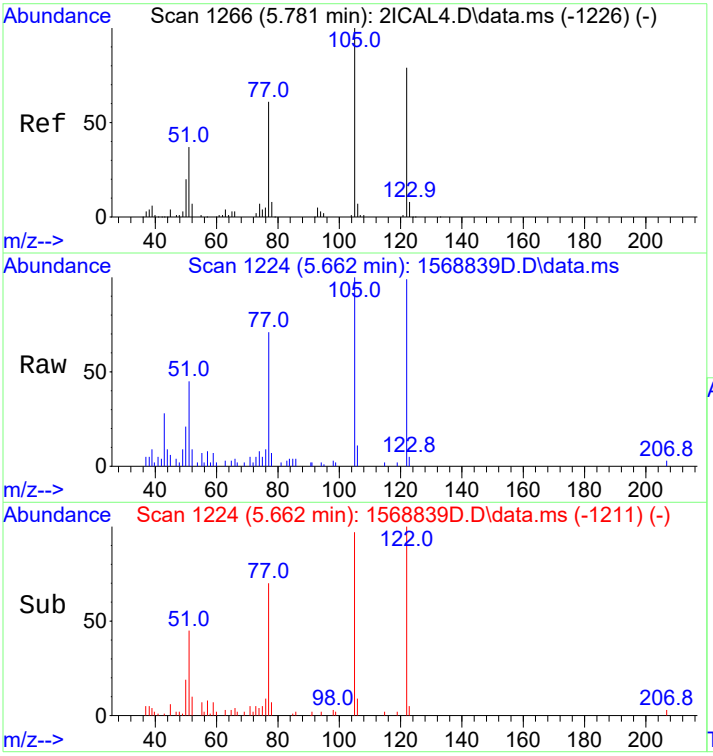




#26
24Dimthpheno
Concen: 0.96 ug/mL
RT: 5.662 min Scan# 1224
Delta R.T. 0.074 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:122 Resp: 9640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 0.0 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

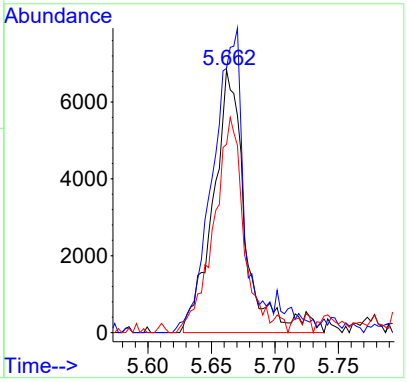


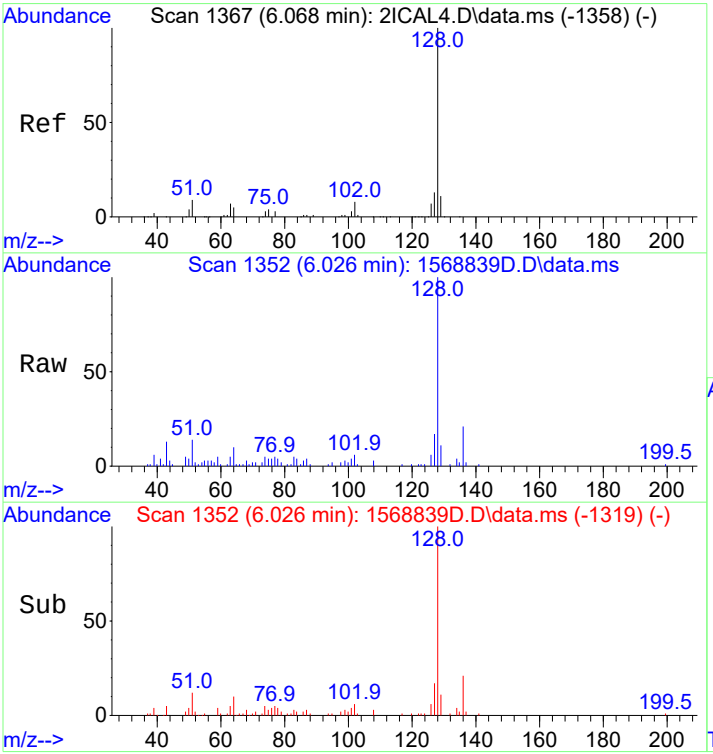



#30
Benzoic acid
Concen: 4.82 ug/mL
RT: 5.662 min Scan# 1224
Delta R.T. -0.094 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:122 Resp: 11940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 96.4 | 96.0 | 156.0 |
| 77 | 67.8 | 46.6 | 106.6 |

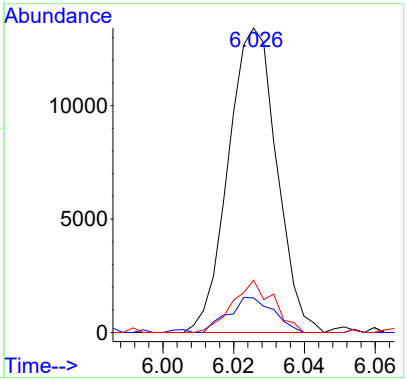


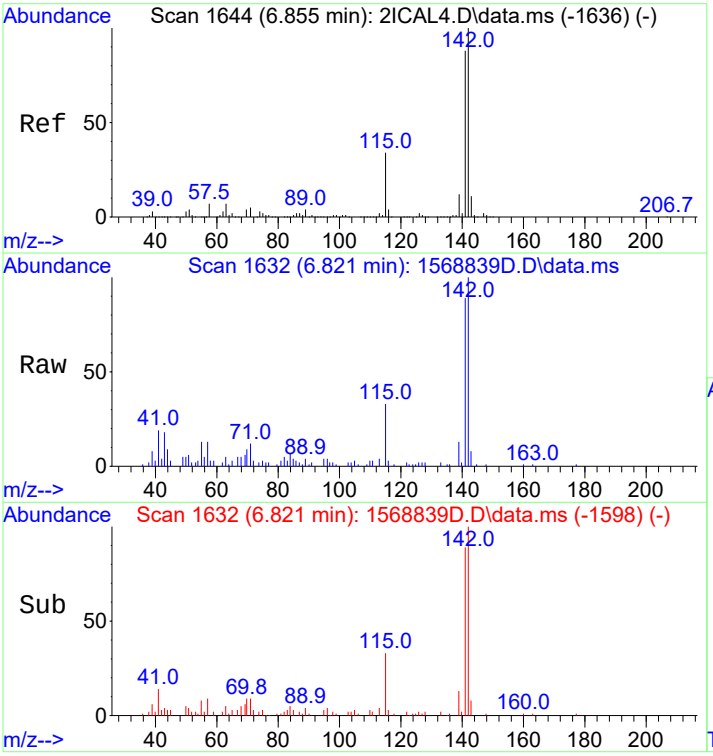




#31
Naphthalene
Concen: 0.37 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.006 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:128 Resp: 12756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.3 | 0.0 | 41.0 |
| 127 | 17.2 | 0.0 | 43.3 |

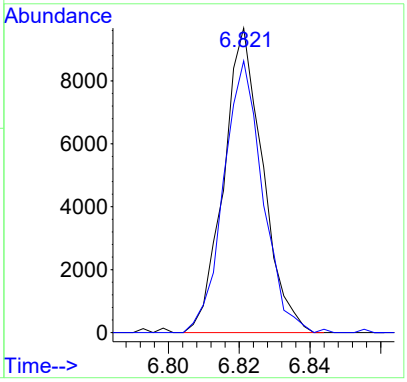


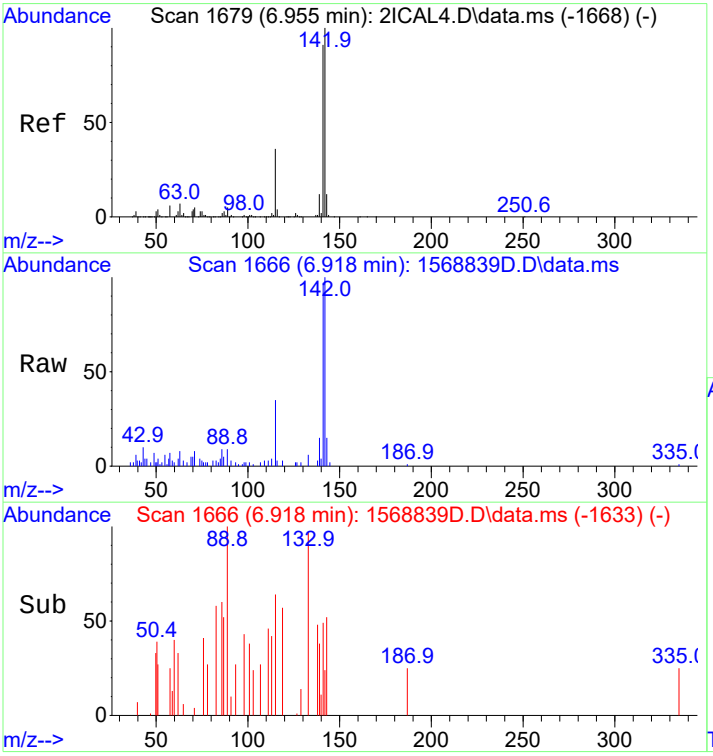



#37
2Methylnaphth
Concen: 0.36 ug/mL
RT: 6.821 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:142 Resp: 7418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.2 | 58.0 | 118.0 |

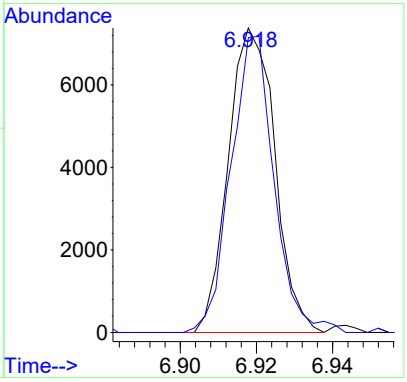


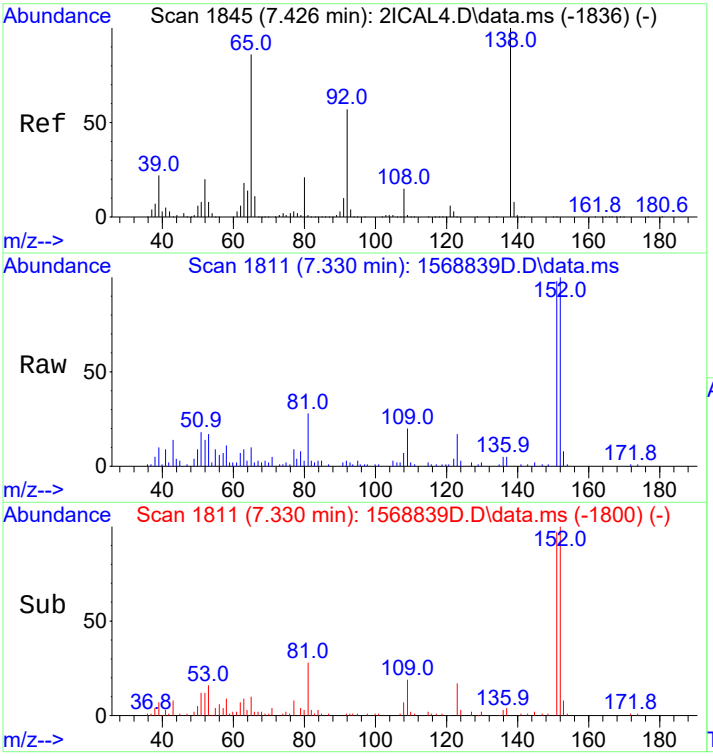




#38
1Methylnaphth
Concen: 0.29 ug/mL
RT: 6.918 min Scan# 1666
Delta R.T. -0.006 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:142 Resp: 6259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 96.9 | 60.7 | 120.7 |

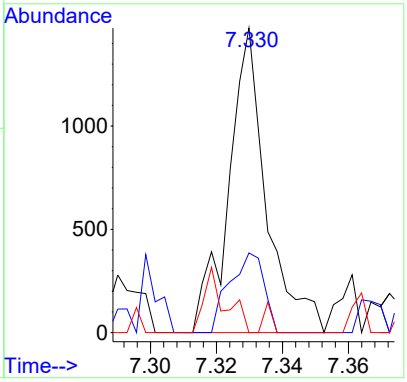


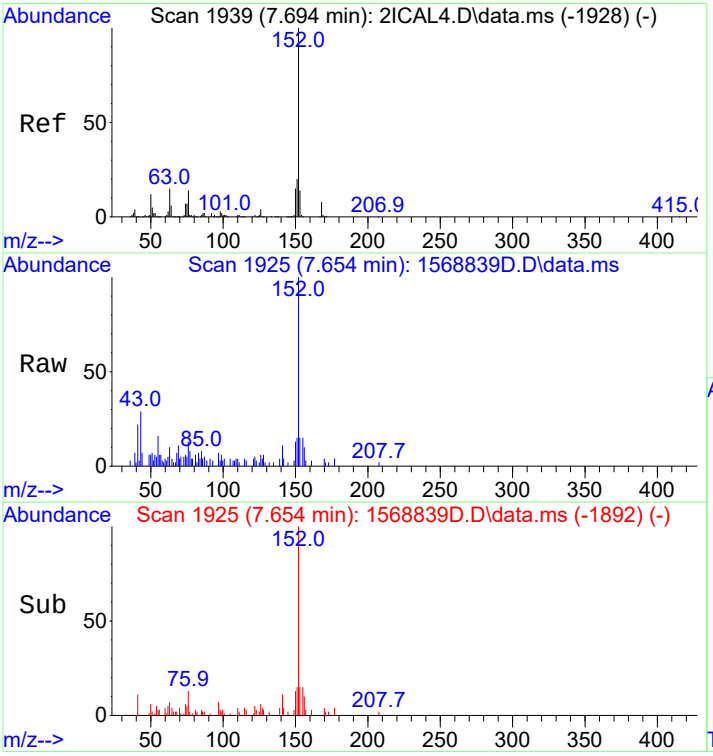



#46
2Nitroaniline
Concen: 0.45 ug/mL
RT: 7.330 min Scan# 1811
Delta R.T. -0.068 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion: 65 Resp: 1173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 48.5 | 36.2 | 96.2 |
| 138 | 0.0 | 85.6 | 145.6# |

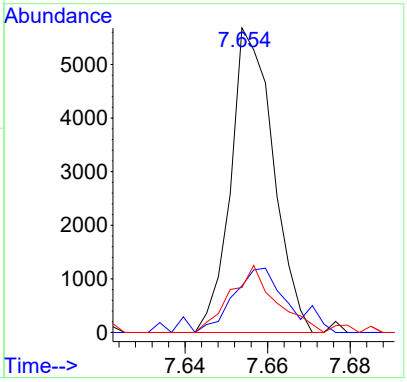


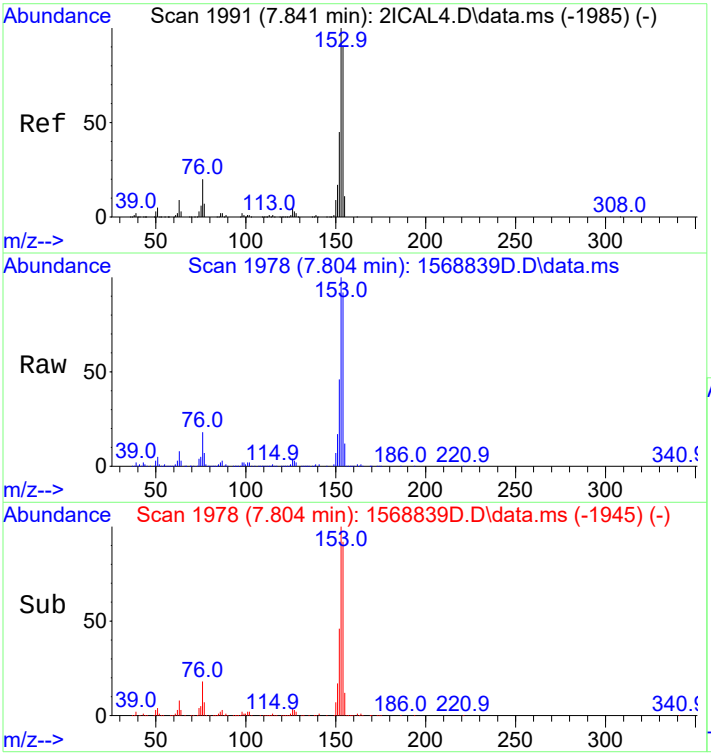




#47
Acnaphthylene
Concen: 0.12 ug/mL
RT: 7.654 min Scan# 1925
Delta R.T. -0.006 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:152 Resp: 4056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 12.6 | 0.0 | 50.3 |
| 153 | 14.8 | 0.0 | 44.4 |

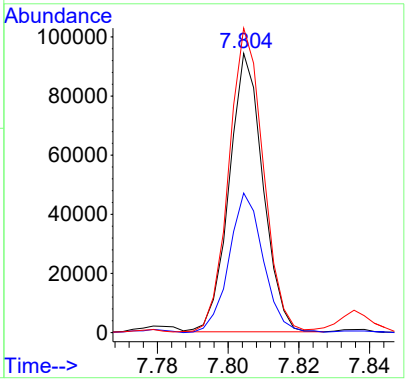


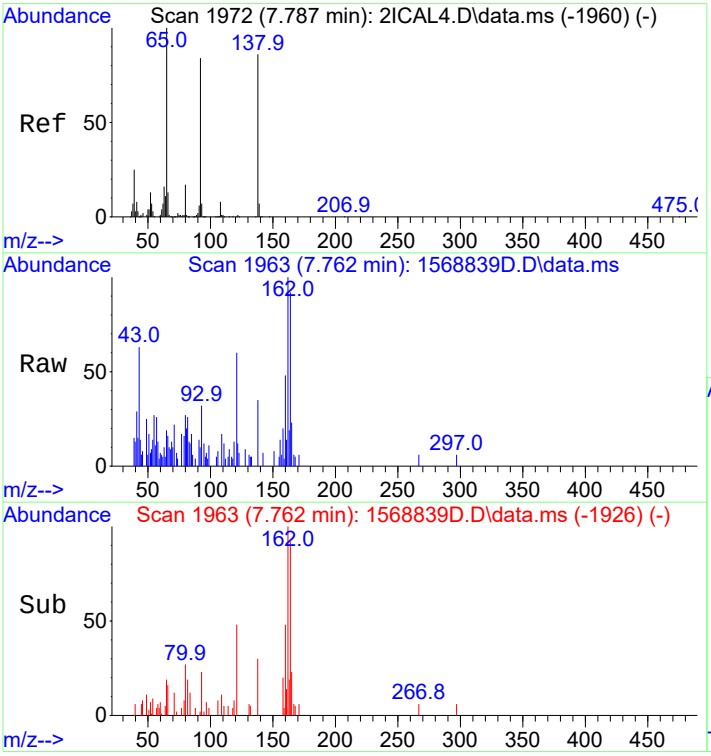



#50
Acenaphthene
Concen: 3.10 ug/mL
RT: 7.804 min Scan# 1978
Delta R.T. -0.006 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:154 Resp: 62502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 50.1 | 20.0 | 80.0 |
| 153 | 108.9 | 80.7 | 140.7 |

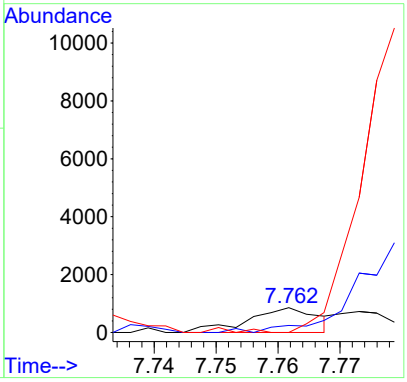


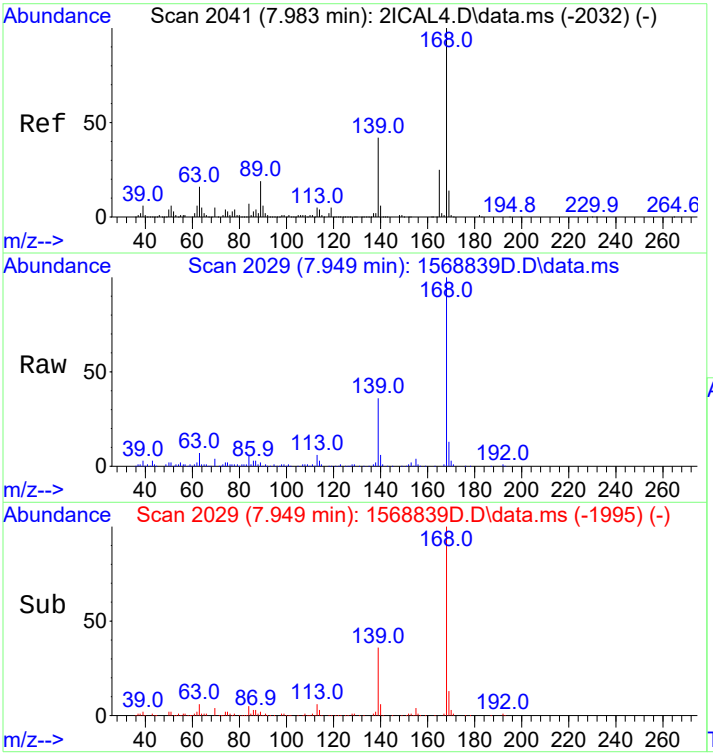




#51
3Nitroaniline
Concen: 0.35 ug/mL
RT: 7.762 min Scan# 1963
Delta R.T. 0.006 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:138 Resp: 669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 28.2 | 67.7 | 127.7# |
| 108 | 0.0 | 0.0 | 38.9 |

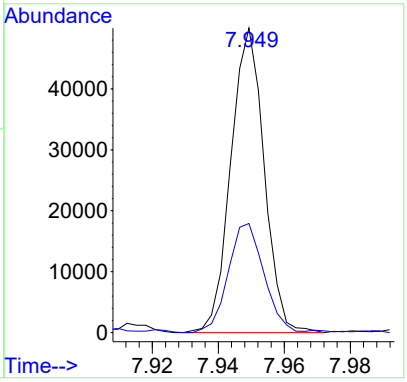


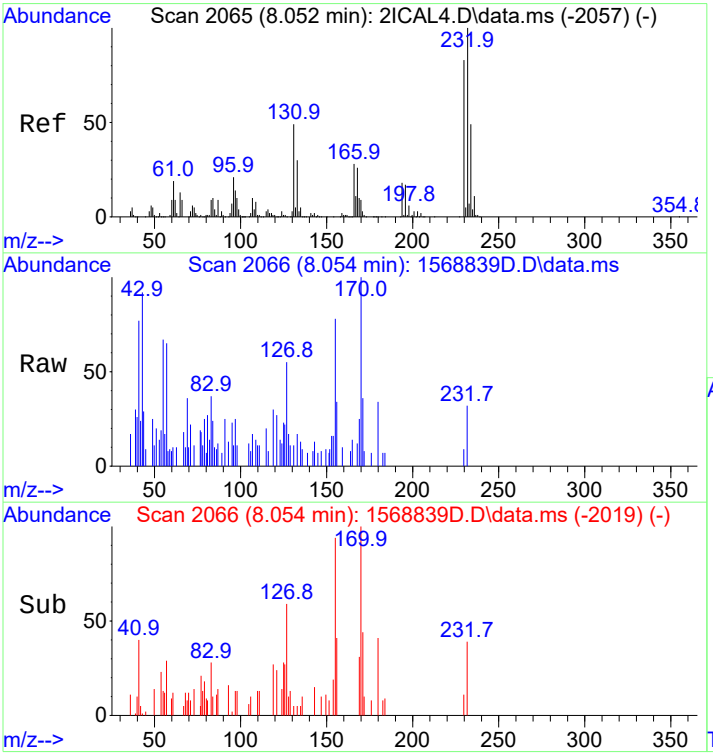



#53
Dibenzofuran
Concen: 1.20 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:168 Resp: 35028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 35.9 | 11.9 | 71.9 |

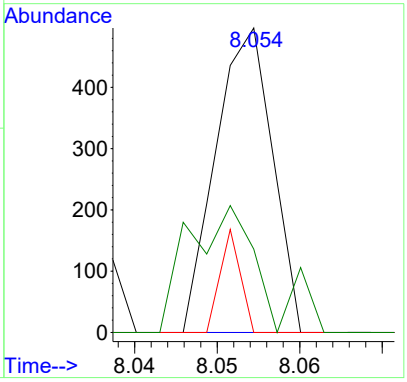


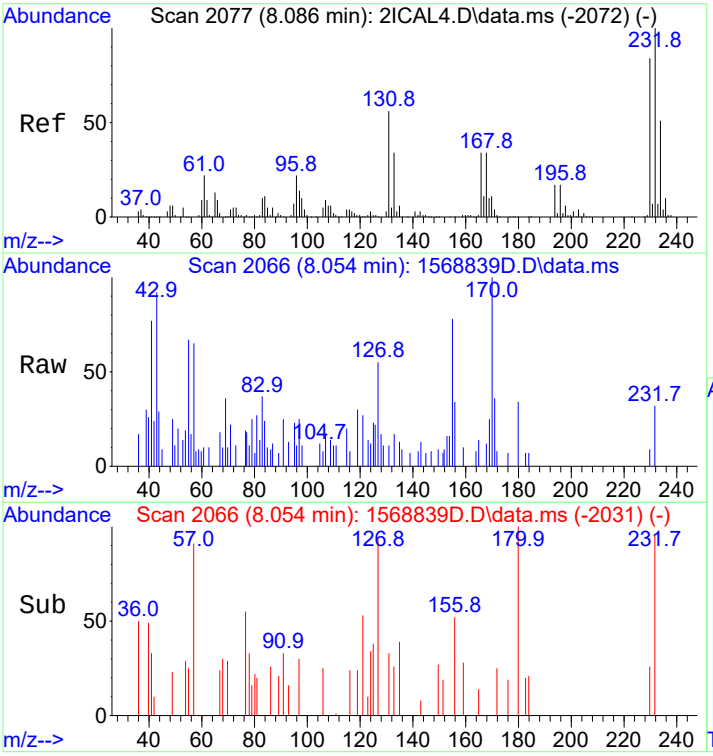




#56
2,3,5,6-Tetrachlorop
Concen: 0.59 ug/mL
RT: 8.054 min Scan# 2066
Delta R.T. 0.034 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:232 Resp: 237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 194 | 0.0 | 0.0 | 48.3 |
| 234 | 0.0 | 18.5 | 78.5# |
| 230 | 27.4 | 52.6 | 112.6# |

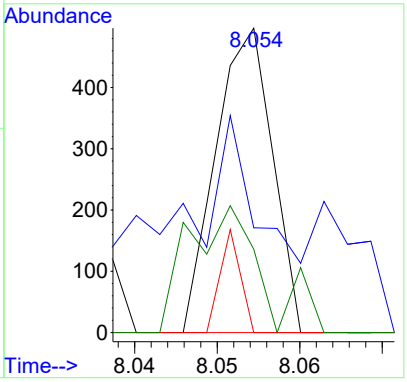


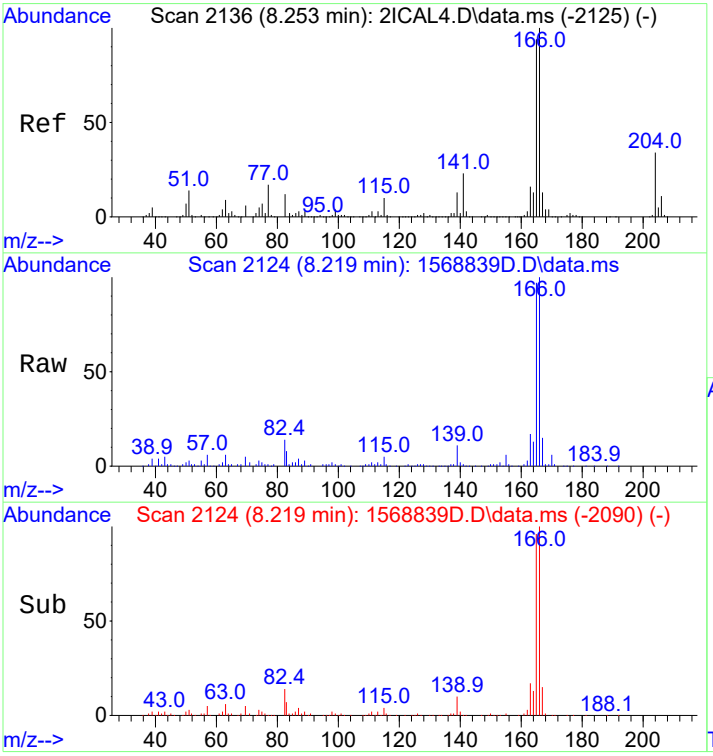



#57
2,3,4,6-Tetrachlorop
Concen: 0.37 ug/mL
RT: 8.054 min Scan# 2066
Delta R.T. 0.000 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:232 Resp: 237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 0.0 | 35.2 | 75.2# |
| 234 | 0.0 | 31.0 | 71.0# |
| 230 | 27.4 | 64.0 | 104.0# |

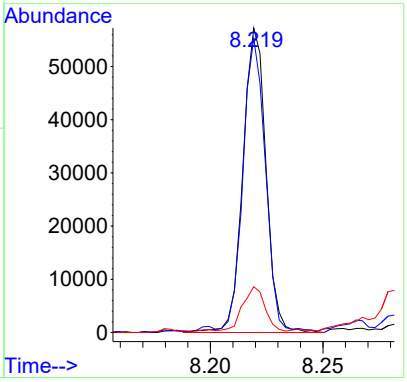


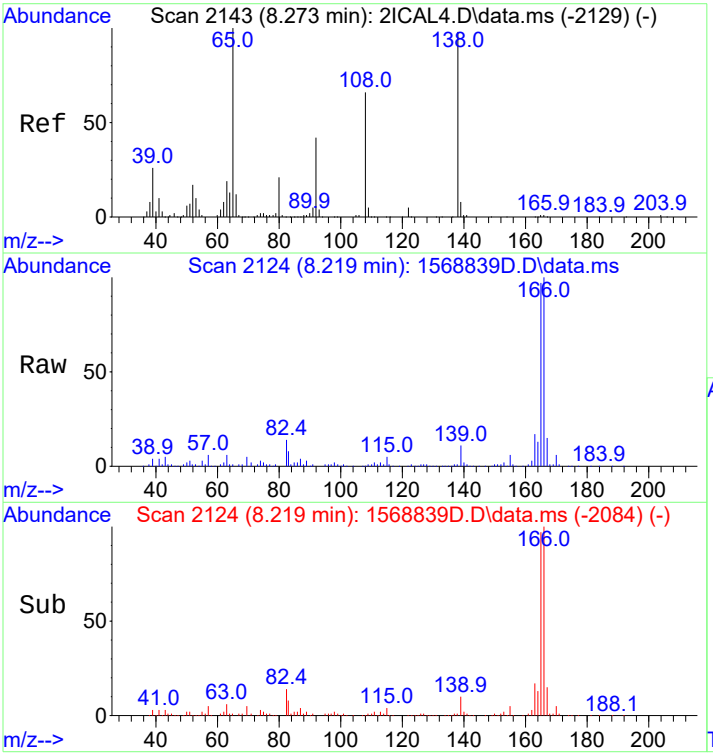




#58
Fluorene
Concen: 1.84 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:166 Resp: 40875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.4 | 63.6 | 123.6 |
| 167 | 14.4 | 0.0 | 43.3 |

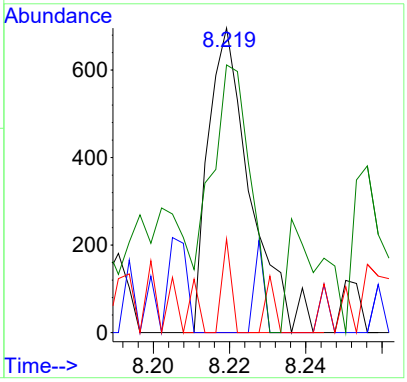


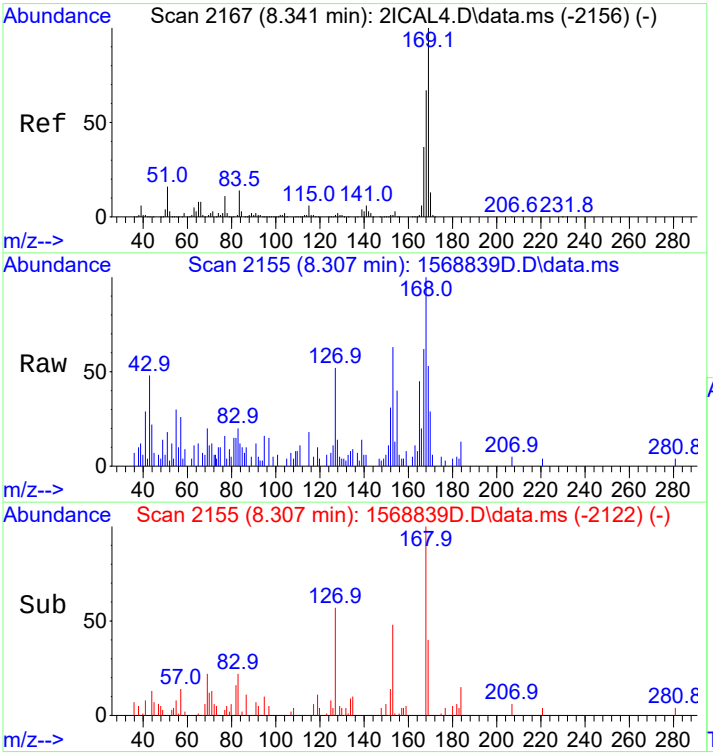



#61
4Nitroaniline
Concen: 0.42 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.026 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:138 Resp: 536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 30.7 | 36.9 | 96.9# |
| 65 | 63.5 | 71.1 | 131.1# |

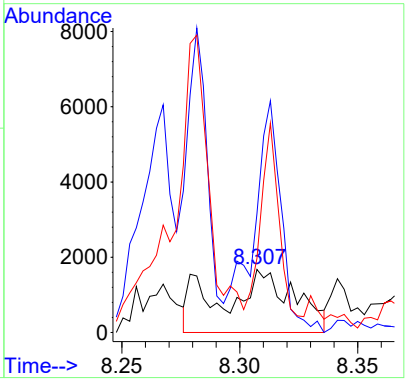


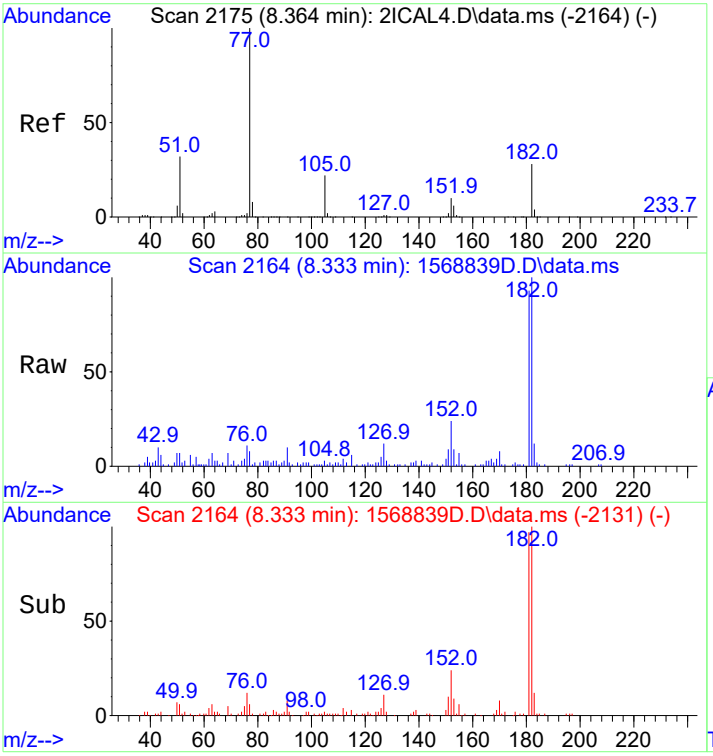




#65
Ntrsdiphlam&Diphlam
Concen: 0.22 ug/mL
RT: 8.307 min Scan# 2155
Delta R.T. -0.006 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:169 Resp: 3533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 290.6 | 37.2 | 97.2# |
| 167 | 148.6 | 6.9 | 66.9# |

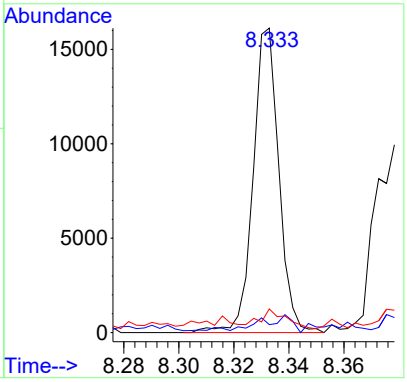


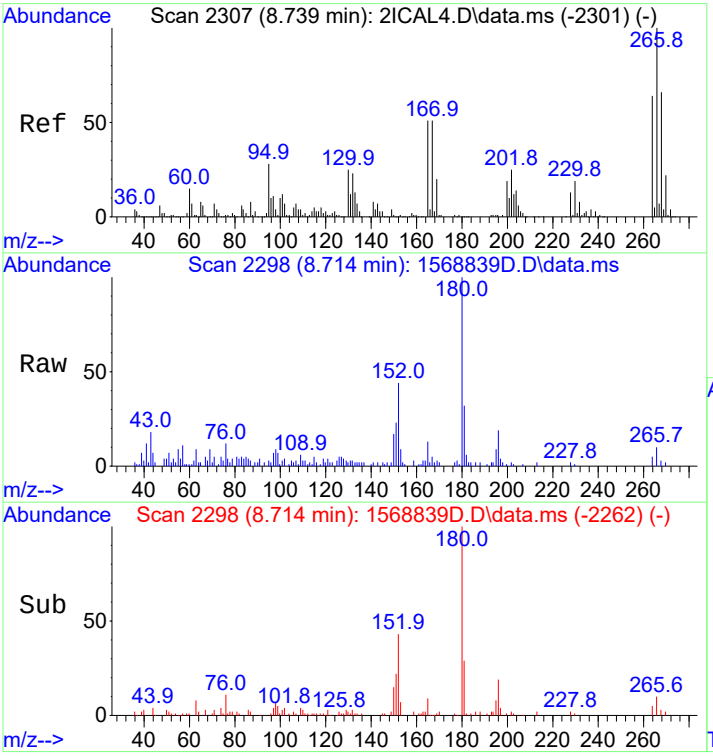



#66
Azobenz&12Diphlhyd
Concen: 1.85 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:182 Resp: 10521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 2.0 | 49.9 | 109.9# |
| 77 | 5.6 | 339.9 | 399.9# |

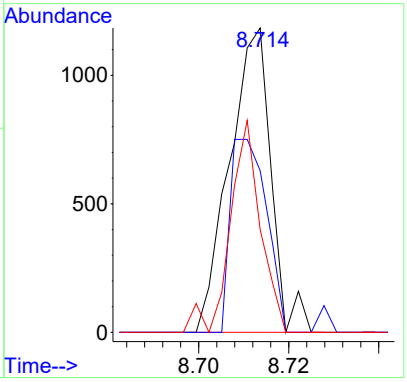


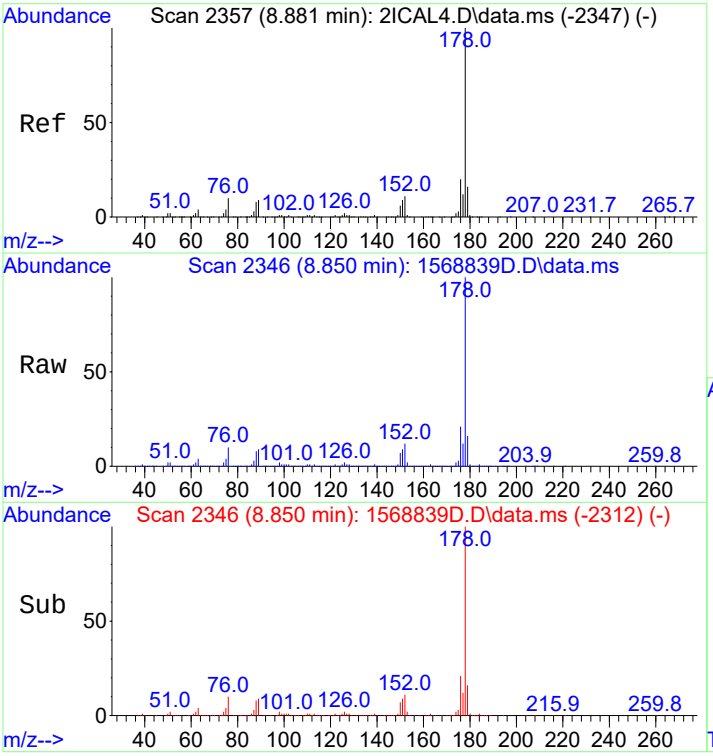




#69
Pentaclphenol
Concen: 3.52 ug/mL
RT: 8.714 min Scan# 2298
Delta R.T. 0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:266 Resp: 759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 264 | 53.1 | 34.2 | 94.2 |
| 268 | 33.8 | 36.2 | 96.2# |

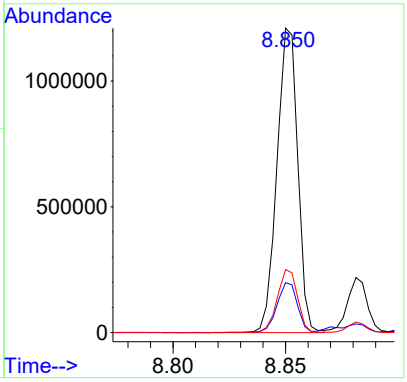


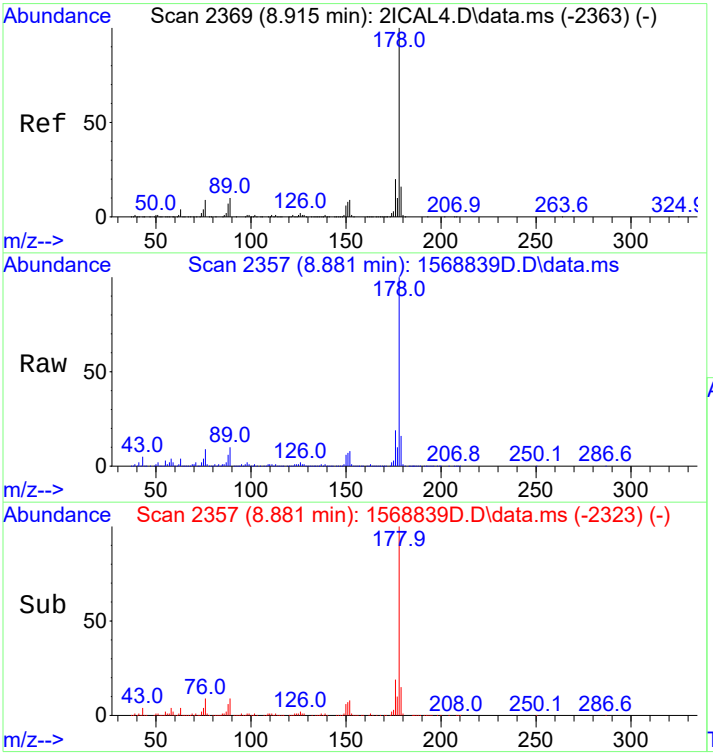



#70
Phenanthrene
Concen: 25.82 ug/mL
RT: 8.850 min Scan# 2346
Delta R.T. -0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:178 Resp: 777775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.4 | 0.0 | 45.9 |
| 176 | 20.7 | 0.0 | 50.4 |

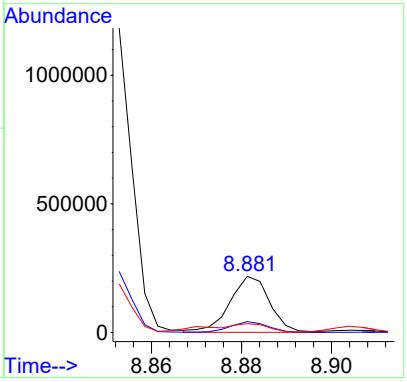


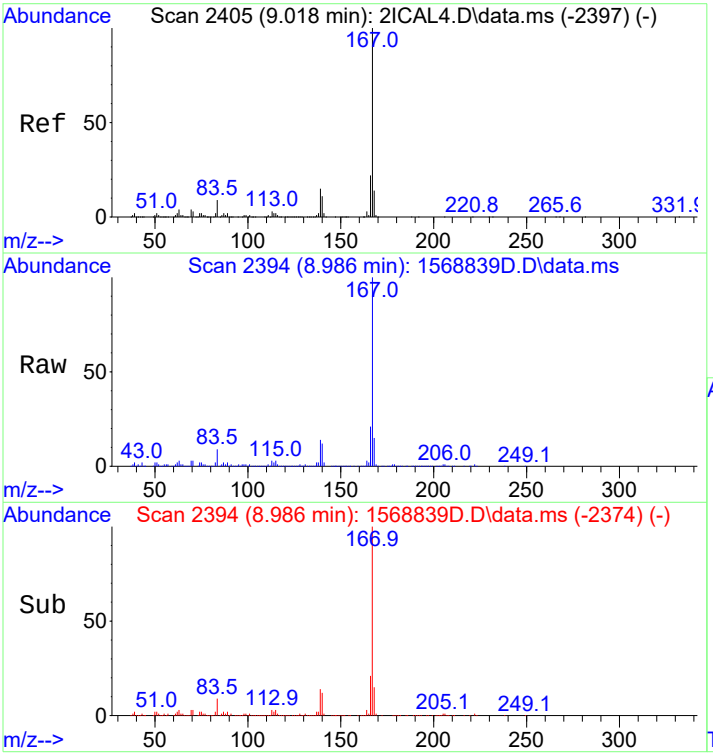




#71
Anthracene
Concen: 4.40 ug/mL
RT: 8.881 min Scan# 2357
Delta R.T. -0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:178 Resp: 134727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 0.0 | 49.5 |
| 179 | 11.4 | 0.0 | 45.9 |

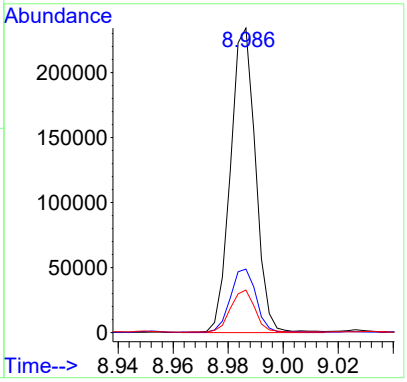


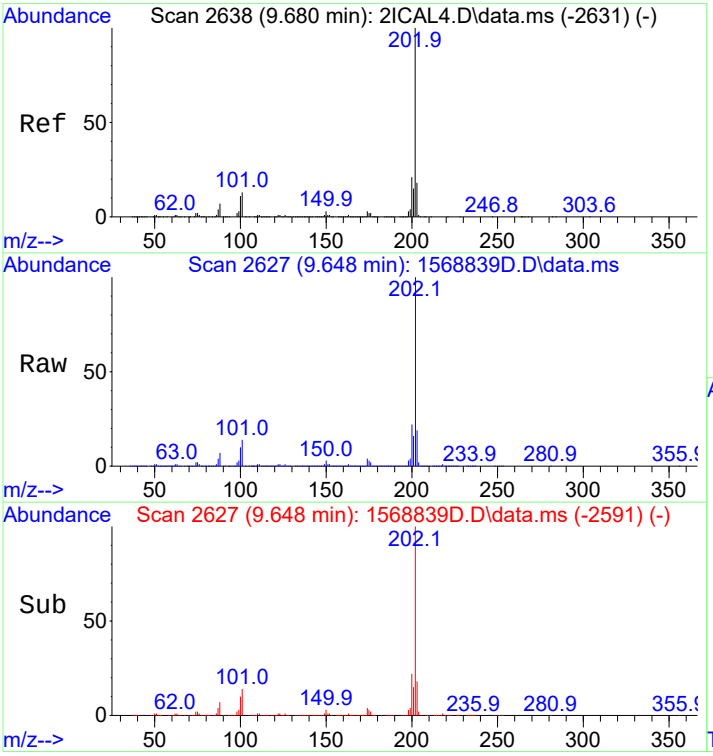



#72
Carbazole
Concen: 5.69 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:167 Resp: 148433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 20.7 | 0.0 | 52.1 |
| 139 | 13.9 | 0.0 | 44.7 |

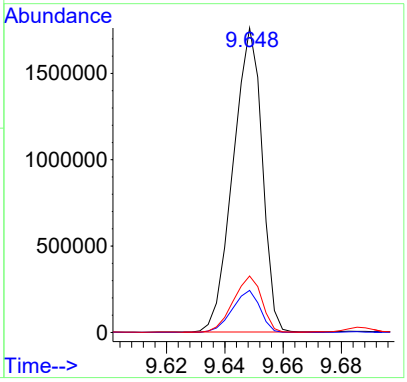


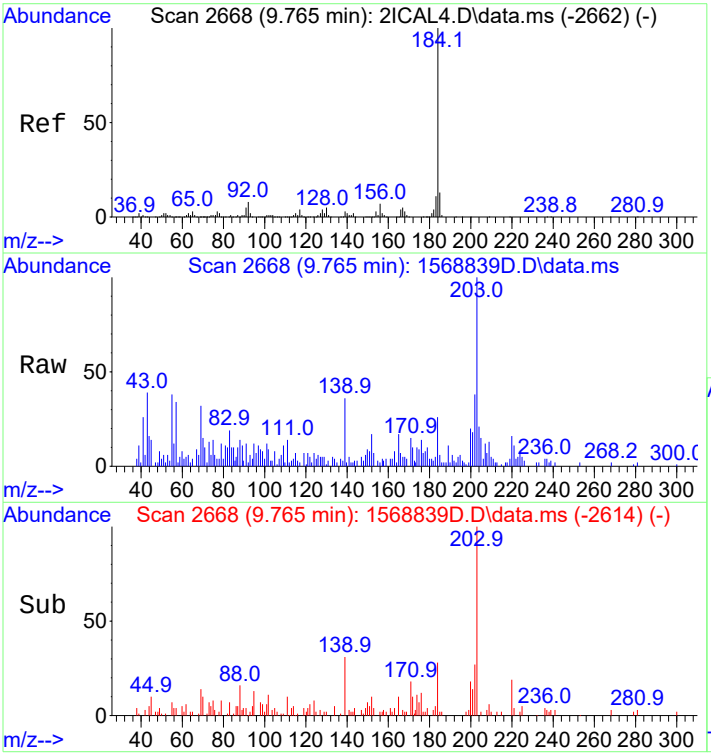




#74
Fluoranthene
Concen: 38.33 ug/mL
RT: 9.648 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:202 Resp: 1219206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.8 | 0.0 | 43.0 |
| 203 | 18.5 | 0.0 | 48.2 |

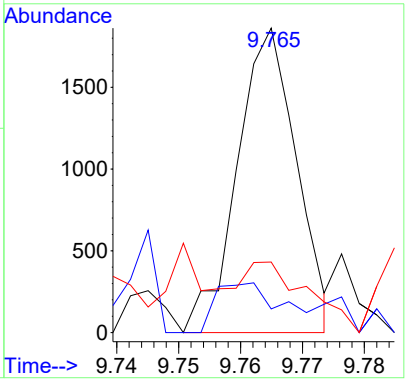


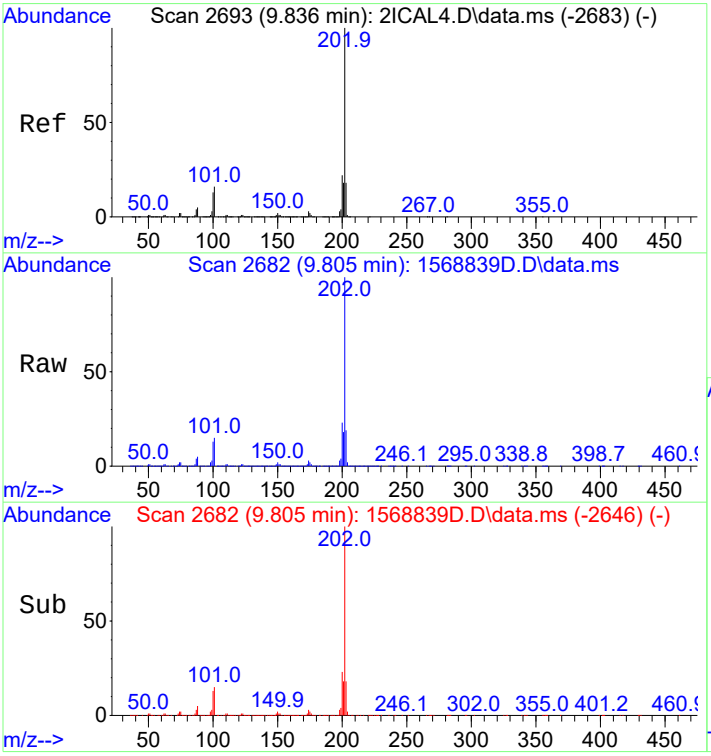



#76
Benzidine
Concen: Below Cal
RT: 9.765 min Scan# 2668
Delta R.T. 0.034 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:184 Resp: 1245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 7.8 | 0.0 | 38.2 |
| 185 | 13.1 | 0.0 | 43.3 |

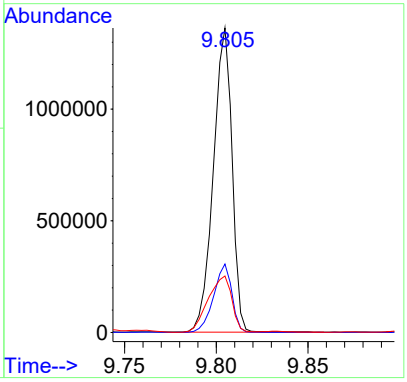


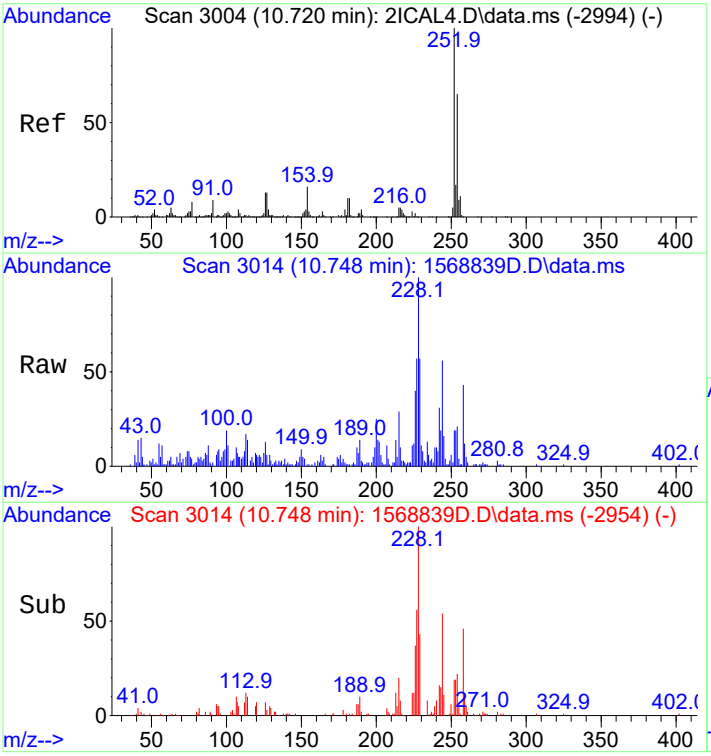




#77
Pyrene
Concen: 28.67 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:202 Resp: 968536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.5 | 0.0 | 52.2 |
| 203 | 18.5 | 0.0 | 48.2 |

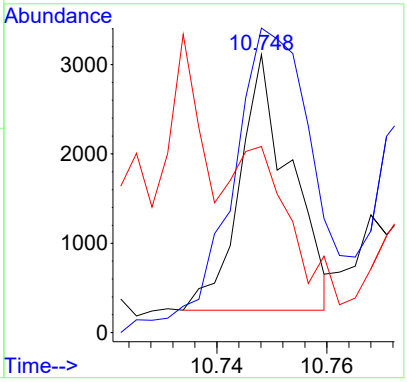


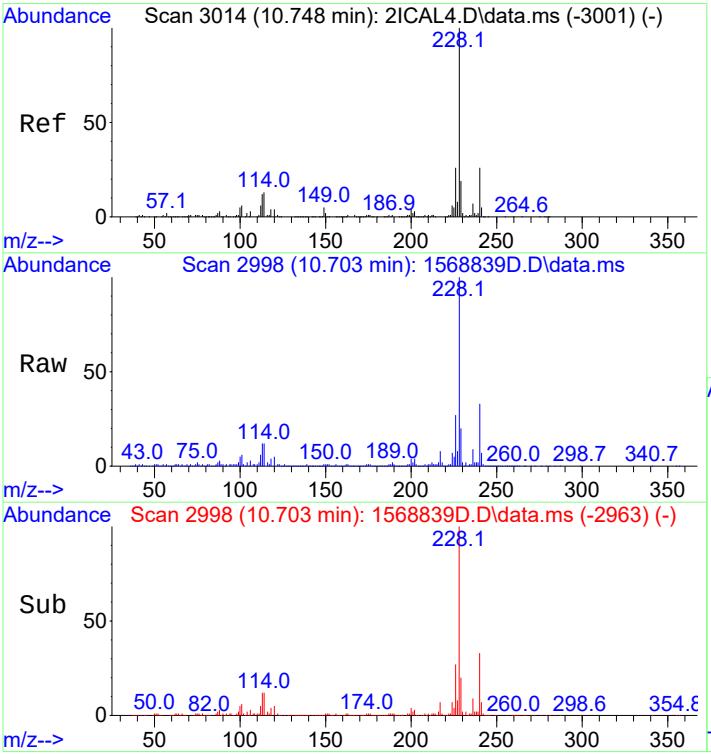



#81
33Diclbnzidin
Concen: 0.00 ug/mL
RT: 10.748 min Scan# 3014
Delta R.T. 0.071 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:252 Resp: 1839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 108.9 | 34.6 | 94.6# |
| 126 | 42.9 | 0.0 | 42.6# |

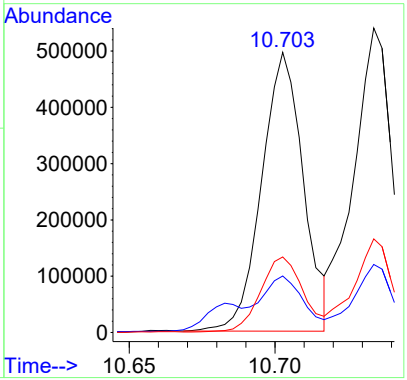


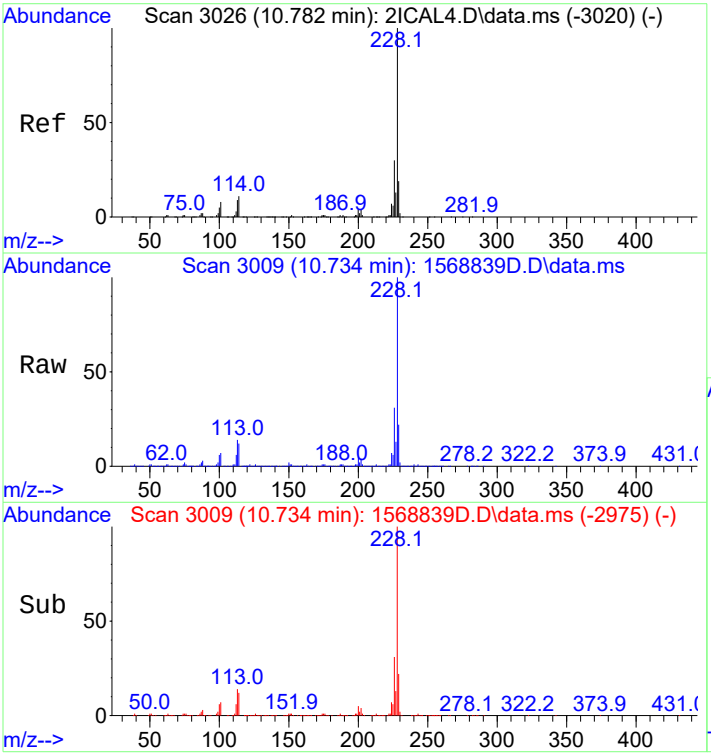




#82
B[a]anthracen
Concen: 15.39 ug/mL
RT: 10.703 min Scan# 2998
Delta R.T. 0.000 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:228 Resp: 492838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.3 | 0.0 | 49.4 |
| 226 | 26.9 | 0.0 | 56.5 |

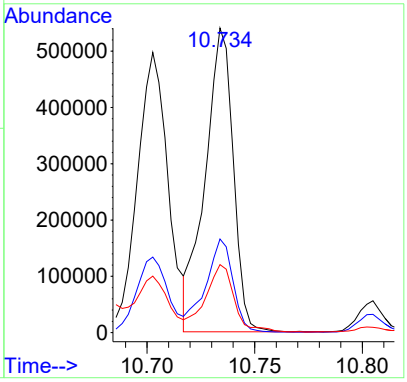


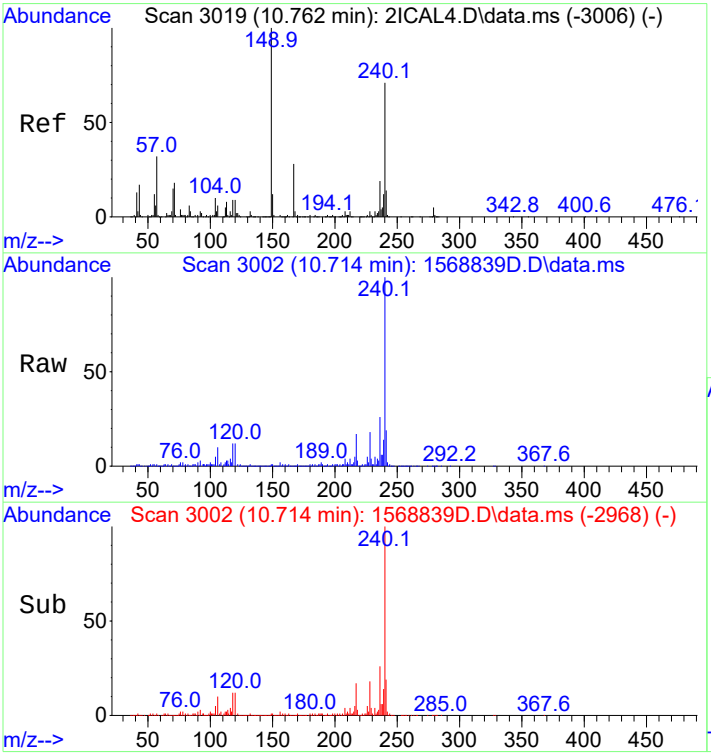



#83
Chrysene
Concen: 16.39 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:228 Resp: 492264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.7 | 0.0 | 59.9 |
| 229 | 21.9 | 0.0 | 49.5 |

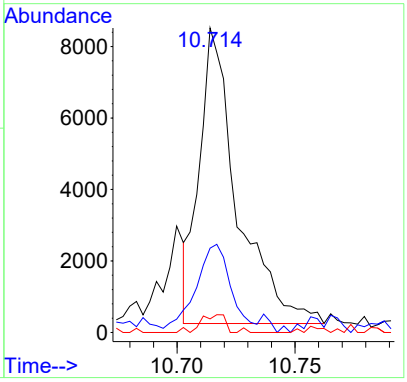


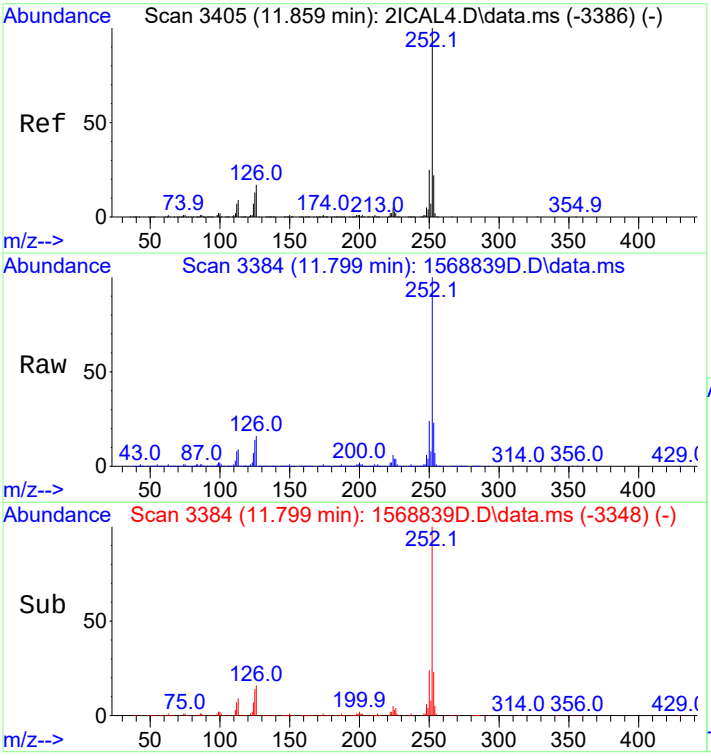




#84
bis2Ethlhxlph
Concen: 0.38 ug/mL
RT: 10.714 min Scan# 3002
Delta R.T. -0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:149 Resp: 9336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 0.0 | 57.9 |
| 279 | 5.4 | 0.0 | 34.9 |

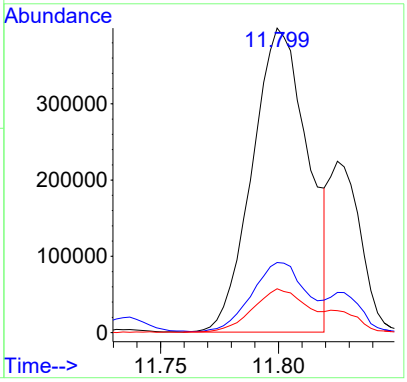


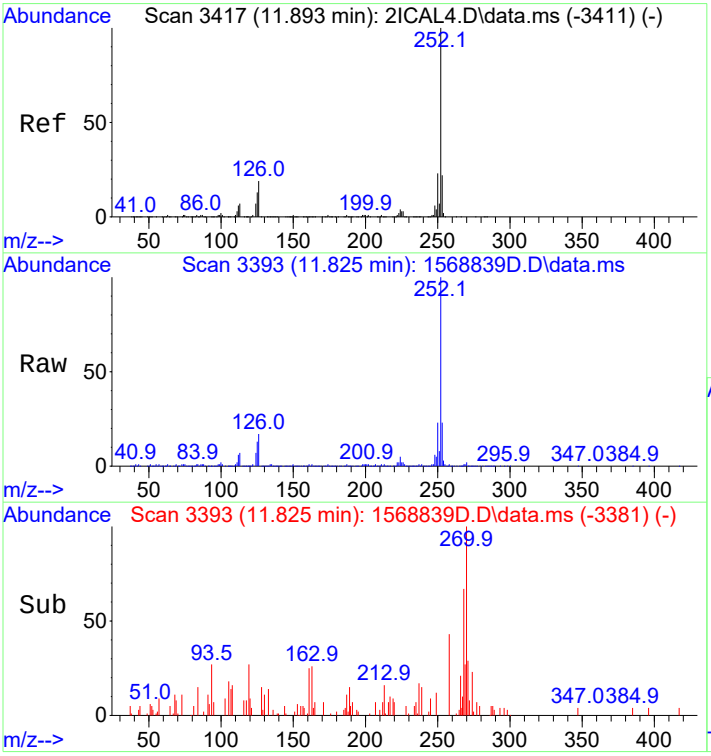



#87
B[b]fluoranth
Concen: 23.05 ug/mL
RT: 11.799 min Scan# 3384
Delta R.T. 0.003 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:252 Resp: 653836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.5 | 0.0 | 52.3 |
| 125 | 14.3 | 0.0 | 43.2 |

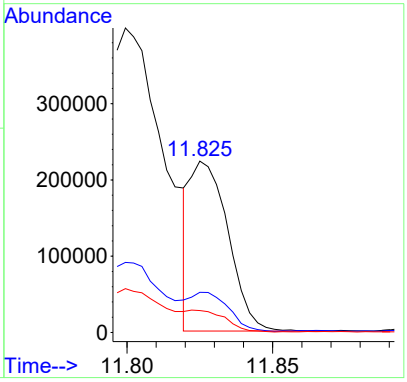


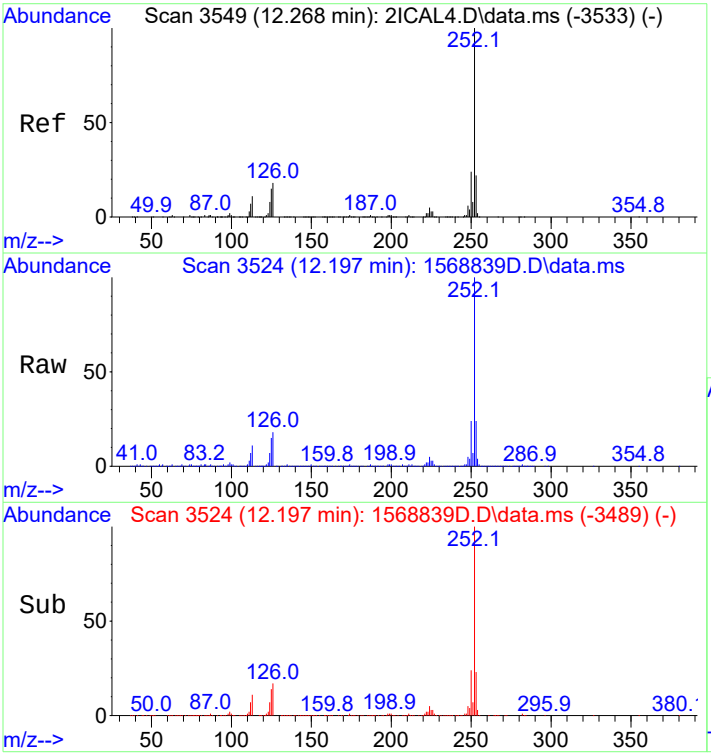




#88
B[k]fluoranth
Concen: 7.10 ug/mL
RT: 11.825 min Scan# 3393
Delta R.T. -0.006 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:252 Resp: 201843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.5 | 0.0 | 52.0 |
| 125 | 12.3 | 0.0 | 43.3 |

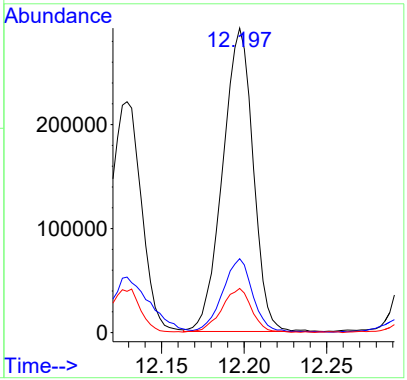


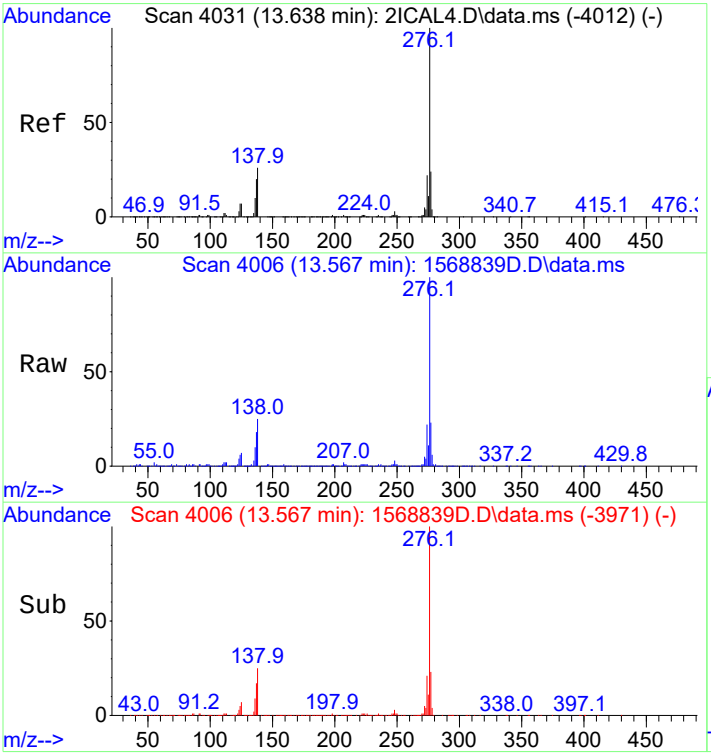



#89
Benz[a]pyrene
Concen: 14.36 ug/mL
RT: 12.197 min Scan# 3524
Delta R.T. 0.000 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:252 Resp: 374730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.1 | 0.0 | 52.3 |
| 125 | 14.4 | 0.0 | 45.1 |

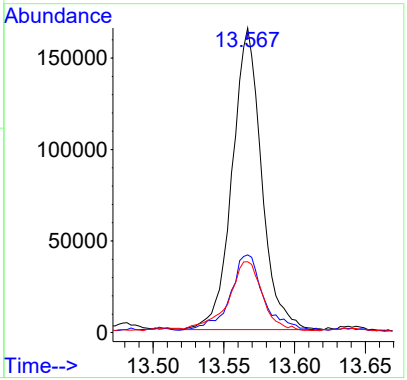


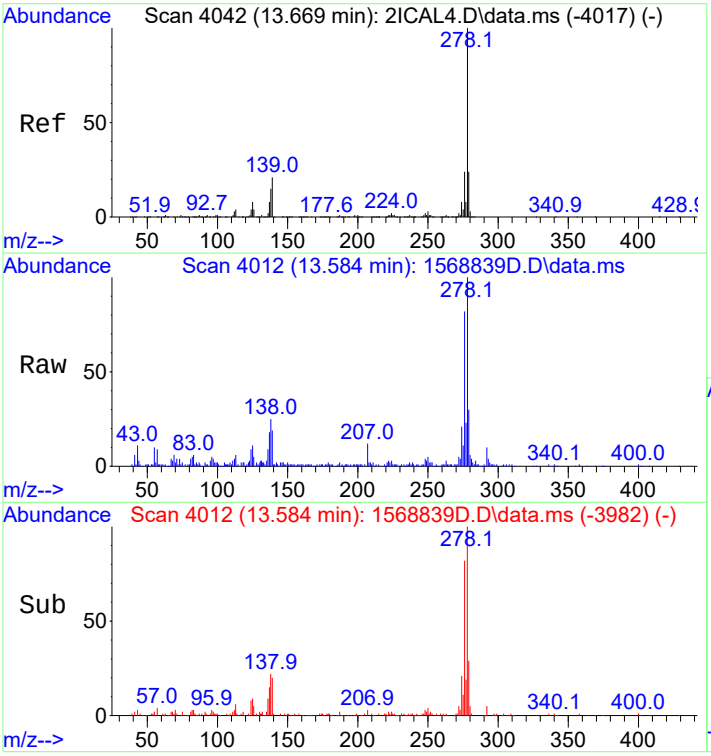




#90
Indeno-pyrene
Concen: 8.24 ug/mL
RT: 13.567 min Scan# 4006
Delta R.T. -0.000 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:276 Resp: 237850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.8 | 0.0 | 55.5 |
| 277 | 22.4 | 0.0 | 54.0 |

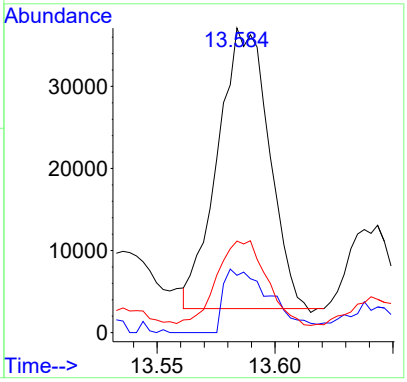


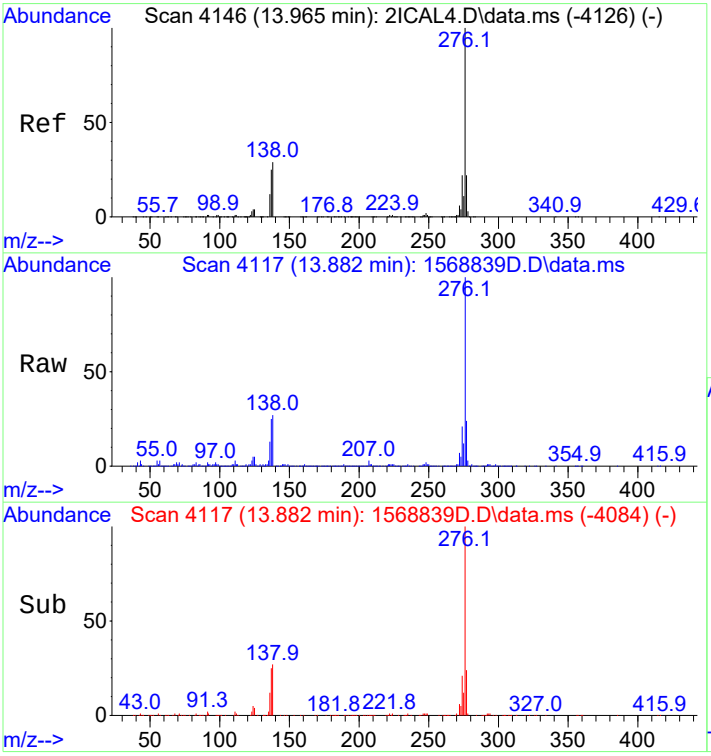



#91
Dib[ah]anthr
Concen: 2.19 ug/mL
RT: 13.584 min Scan# 4012
Delta R.T. -0.014 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:278 Resp: 51619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.4 | 0.0 | 50.9 |
| 279 | 29.8 | 0.0 | 54.4 |

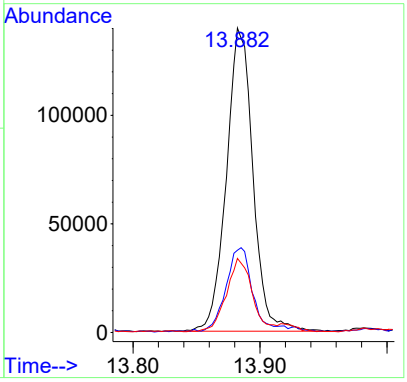



#92
B[ghi]perylen
Concen: 8.97 ug/mL
RT: 13.882 min Scan# 4117
Delta R.T. -0.006 min
Lab File: 1568839D.D
Acq: 11 Apr 2025 12:13

Tgt Ion:276 Resp: 202696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.8 | 0.0 | 59.0 |
| 277 | 24.1 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568828X.D Vial: 5
Acq On : 11 Apr 2025 12:36 Operator: JJY
Sample : 290730,1568828,5 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:10 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

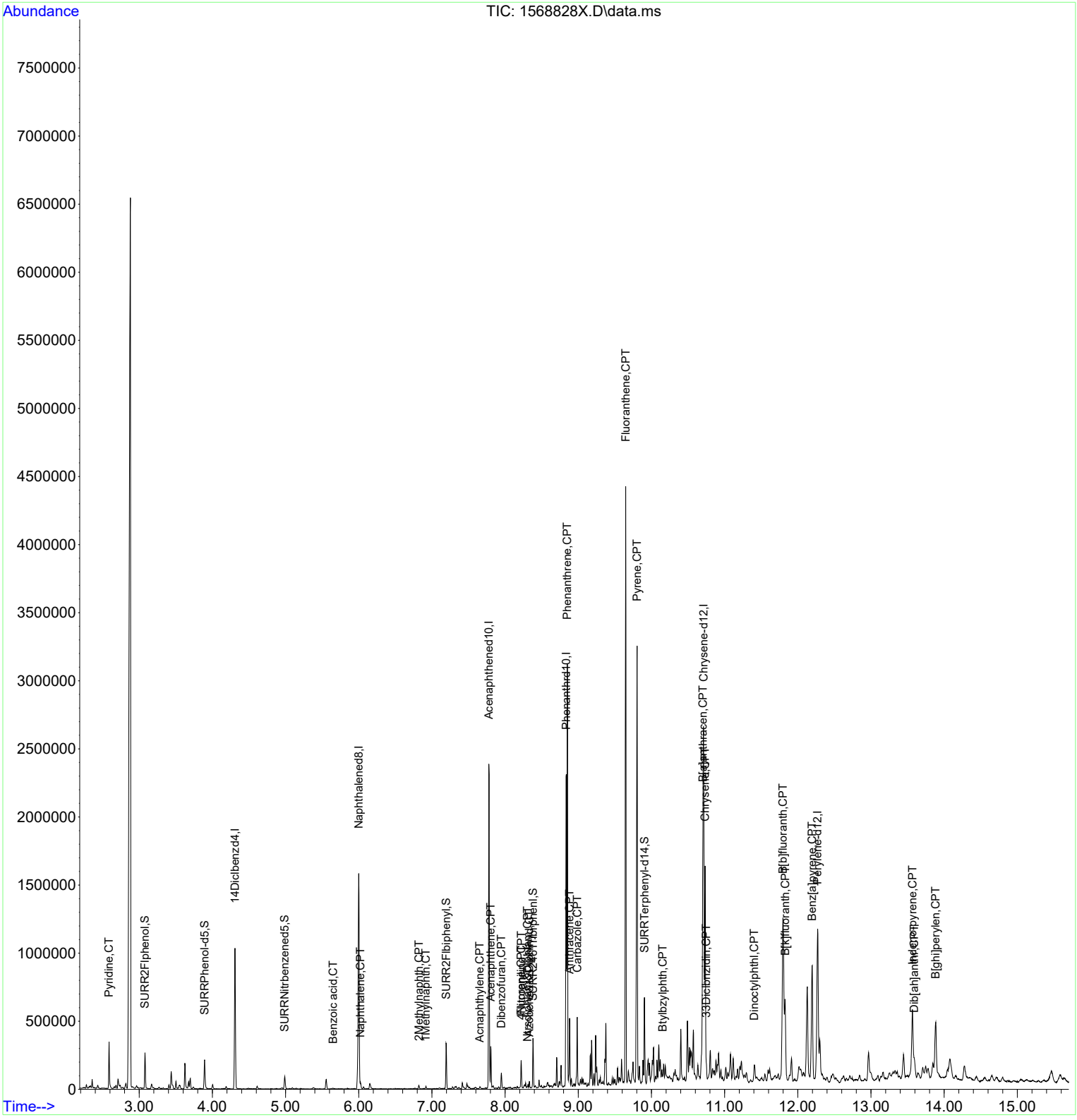
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 157478 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 743168 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.779 | 164 | 412684 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 613730 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.711 | 240 | 540531 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.271 | 264 | 541020 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.079 | 112 | 52231 | 13.78 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 13.78% | | | |
| 7) SURRPhenol-d5 | 3.894 | 99 | 70686 | 15.51 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 15.51% | | | |
| 22) SURRNitrbenzened5 | 4.988 | 82 | 28407 | 14.03 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 14.03% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 85569 | 17.38 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 17.38% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 21368 | 19.34 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 19.34% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 106811 | 20.26 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 20.26% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Pyridine | 2.587 | 79 | 1343 | 0.1233 | ug/mL | 92 |
| 30) Benzoic acid | 5.650 | 122 | 1714 | 3.2077 | ug/mL | 89 |
| 31) Naphthalene | 6.023 | 128 | 15963 | 0.4657 | ug/mL | 95 |
| 37) 2Methylnaphth | 6.821 | 142 | 5313 | 0.2565 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.918 | 142 | 4527 | 0.2113 | ug/mL | 78 |
| 47) Acnaphthylene | 7.654 | 152 | 3295 | 0.0987 | ug/mL | 94 |
| 50) Acenaphthene | 7.804 | 154 | 51132 | 2.5760 | ug/mL | 95 |
| 53) Dibenzofuran | 7.949 | 168 | 32950 | 1.1495 | ug/mL | 93 |
| 58) Fluorene | 8.219 | 166 | 40578 | 1.8518 | ug/mL | 96 |
| 61) 4Nitroaniline | 8.222 | 138 | 574 | 0.4321 | ug/mL# | 44 |
| 65) Ntrsdiphlam&Diphlam | 8.307 | 169 | 847 | 0.0535 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.330 | 182 | 8512 | 1.5086 | ug/mL# | 1 |
| 70) Phenanthrene | 8.850 | 178 | 756221 | 25.2912 | ug/mL | 99 |
| 71) Anthracene | 8.881 | 178 | 126044 | 4.1432 | ug/mL | 95 |
| 72) Carbazole | 8.986 | 167 | 137355 | 5.3023 | ug/mL | 98 |
| 74) Fluoranthene | 9.648 | 202 | 1233352 | 39.0626 | ug/mL | 99 |
| 76) Benzidine | 9.765 | 184 | 1130 | Below Cal | | 93 |
| 77) Pyrene | 9.805 | 202 | 975714 | 28.4187 | ug/mL | 100 |
| 79) Btylbzylphth | 10.154 | 149 | 2456 | 0.1447 | ug/mL# | 43 |
| 81) 33Diclbnzidin | 10.748 | 252 | 1934 | 0.0133 | ug/mL# | 1 |
| 82) B[a]anthracen | 10.703 | 228 | 495773 | 15.2343 | ug/mL | 97 |
| 83) Chrysene | 10.734 | 228 | 498742 | 16.3412 | ug/mL | 97 |
| 85) Dinoctylphthl | 11.404 | 149 | 4581 | 0.4233 | ug/mL# | 52 |
| 87) B[b]fluoranth | 11.796 | 252 | 668074 | 23.3113 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.828 | 252 | 228258 | 7.9495 | ug/mL | 97 |
| 89) Benz[a]pyrene | 12.197 | 252 | 398828 | 15.1324 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.567 | 276 | 267797 | 9.1867 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.589 | 278 | 57911 | 2.4303 | ug/mL | 95 |
| 92) B[ghi]perylen | 13.882 | 276 | 219862 | 9.6267 | ug/mL | 94 |

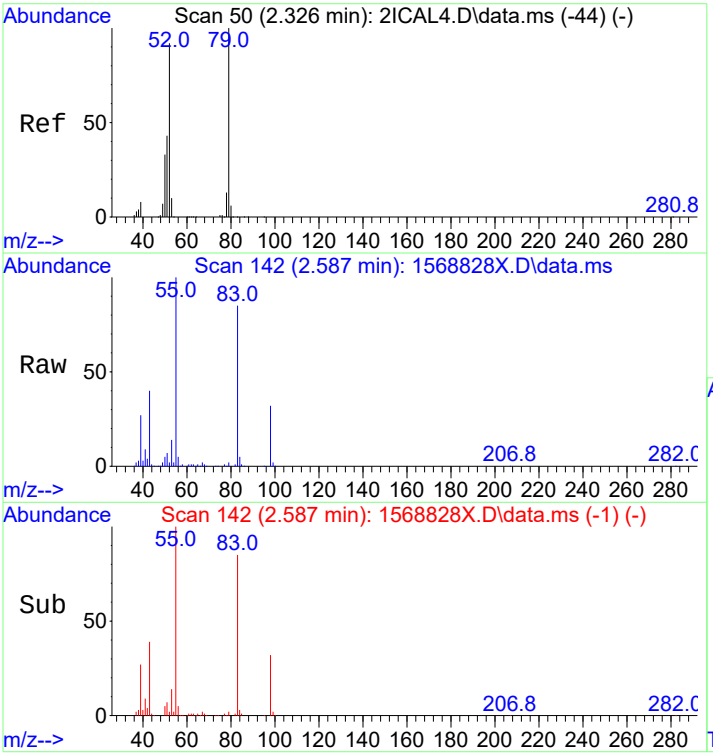
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568828X.D Vial: 5
Acq On : 11 Apr 2025 12:36 Operator: JJY
Sample : 290730,1568828,5 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:10 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

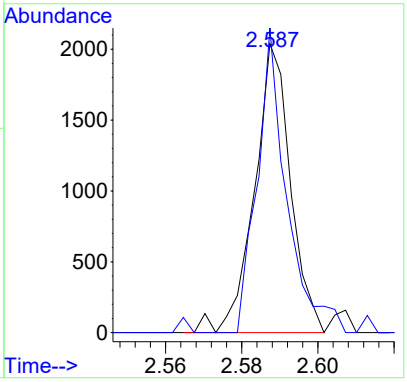


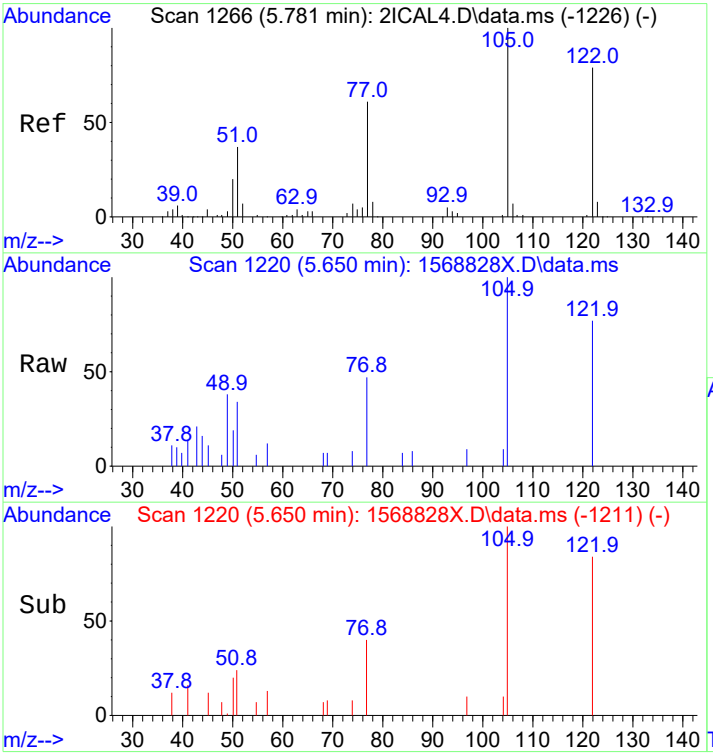



#3
Pyridine
Concen: 0.12 ug/mL
RT: 2.587 min Scan# 142
Delta R.T. 0.293 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion: 79 Resp: 1343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 100.0 | 62.5 | 122.5 |

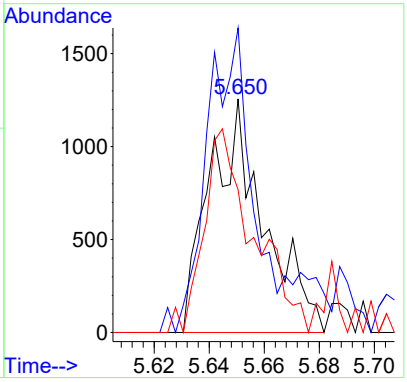


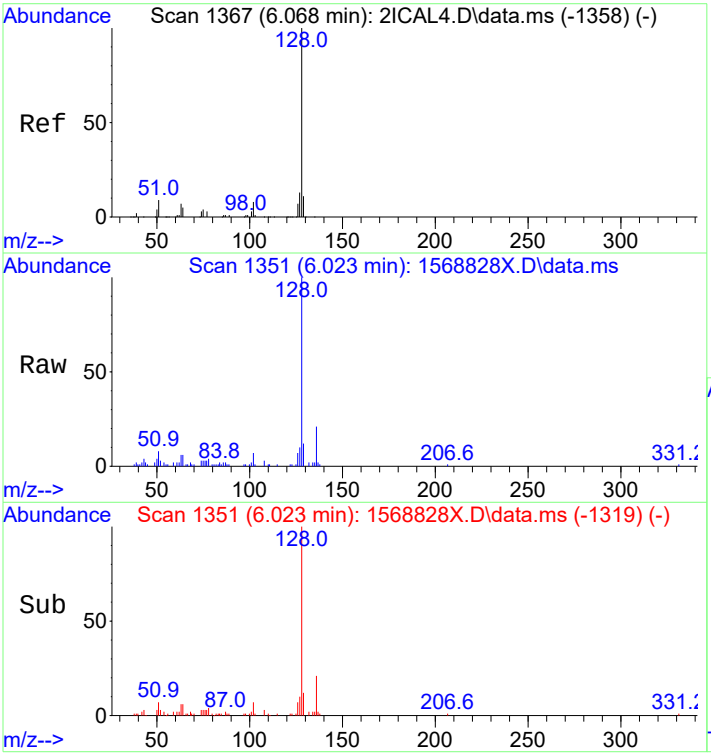




#30
Benzoic acid
Concen: 3.21 ug/mL
RT: 5.650 min Scan# 1220
Delta R.T. -0.105 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:122 Resp: 1714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 118.5 | 96.0 | 156.0 |
| 77 | 61.2 | 46.6 | 106.6 |

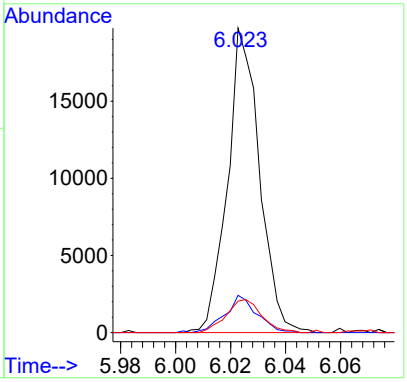


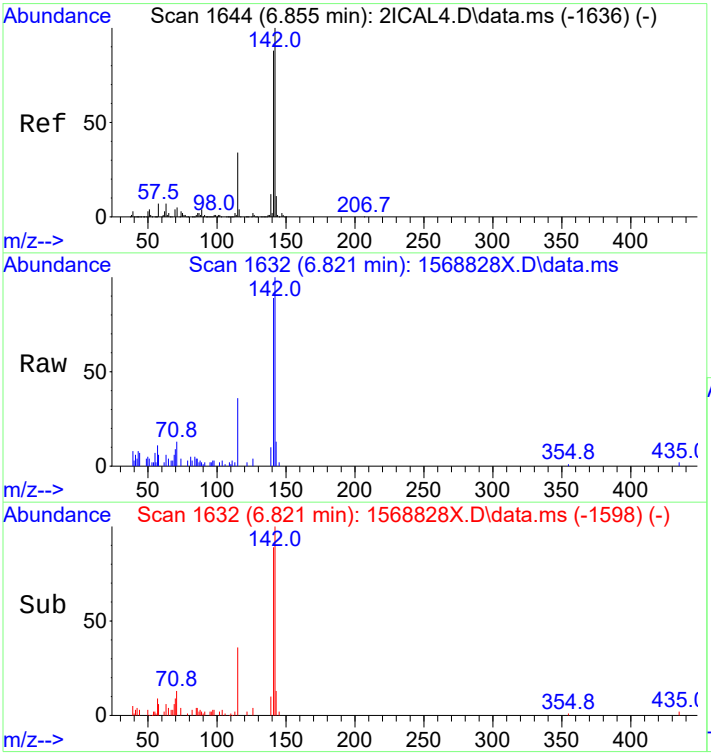



#31
Naphthalene
Concen: 0.47 ug/mL
RT: 6.023 min Scan# 1351
Delta R.T. -0.009 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:128 Resp: 15963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.2 | 0.0 | 41.0 |
| 127 | 10.4 | 0.0 | 43.3 |

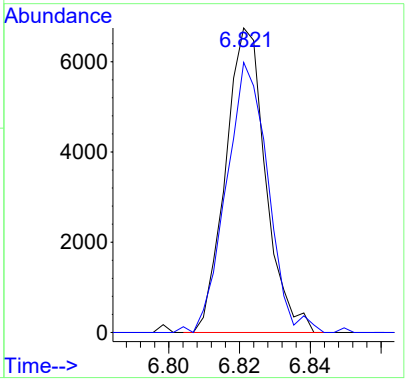


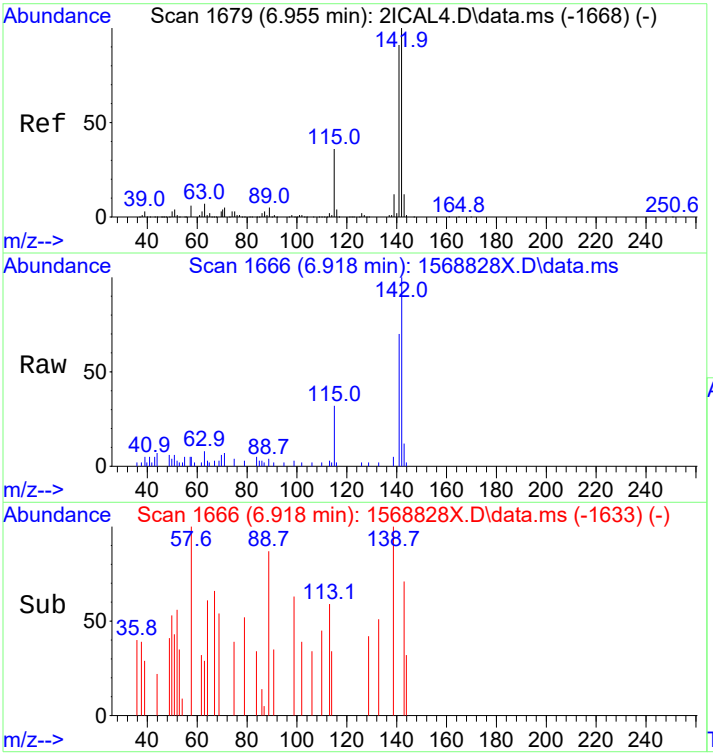




#37
2Methylnaphth
Concen: 0.26 ug/mL
RT: 6.821 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:142 Resp: 5313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.7 | 58.0 | 118.0 |

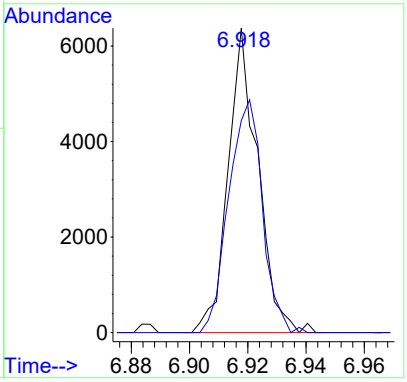


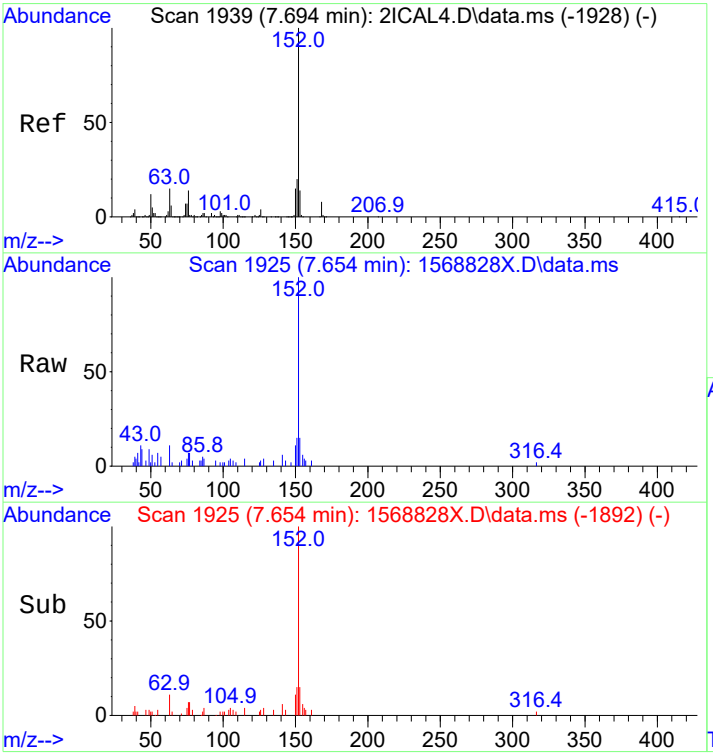



#38
1Methylnaphth
Concen: 0.21 ug/mL
RT: 6.918 min Scan# 1666
Delta R.T. -0.006 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:142 Resp: 4527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 69.6 | 60.7 | 120.7 |

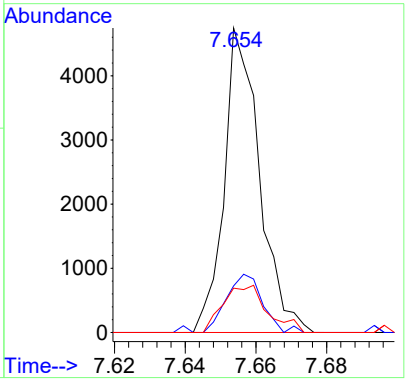


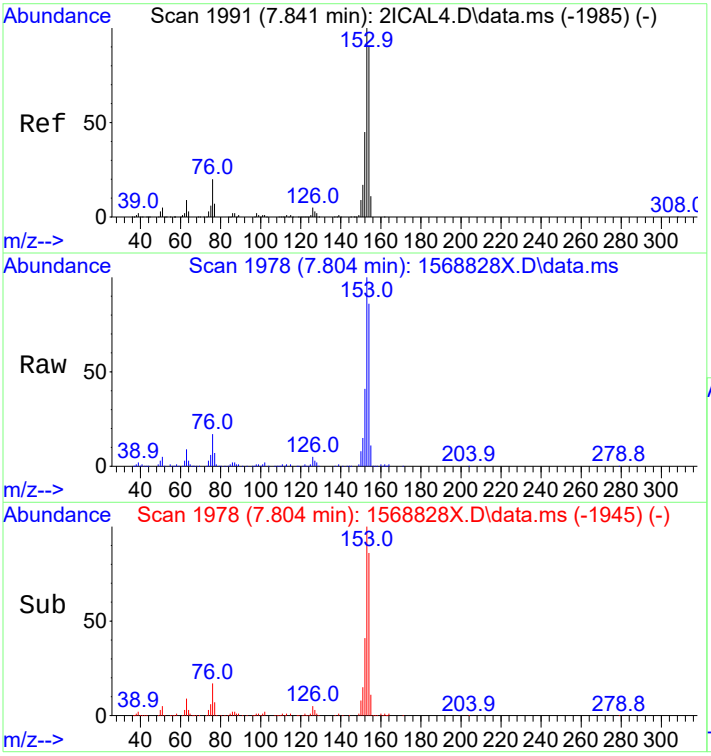




#47
Acnaphthylene
Concen: 0.10 ug/mL
RT: 7.654 min Scan# 1925
Delta R.T. -0.006 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:152 Resp: 3295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 15.3 | 0.0 | 50.3 |
| 153 | 14.5 | 0.0 | 44.4 |

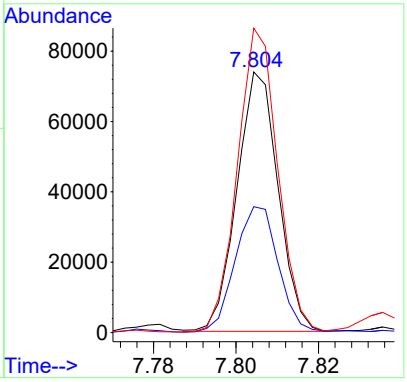


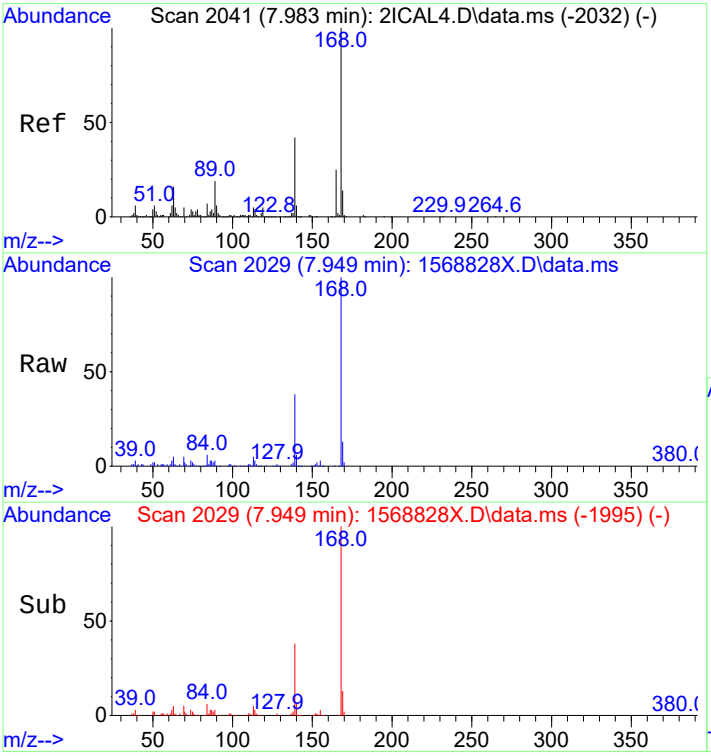



#50
Acenaphthene
Concen: 2.58 ug/mL
RT: 7.804 min Scan# 1978
Delta R.T. -0.006 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:154 Resp: 51132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 48.3 | 20.0 | 80.0 |
| 153 | 117.2 | 80.7 | 140.7 |

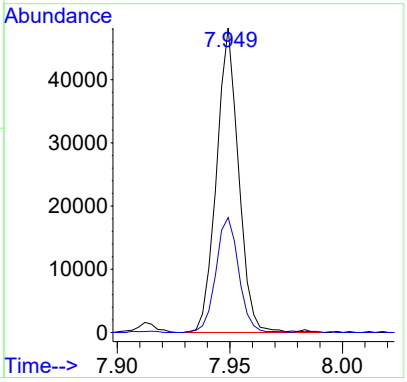


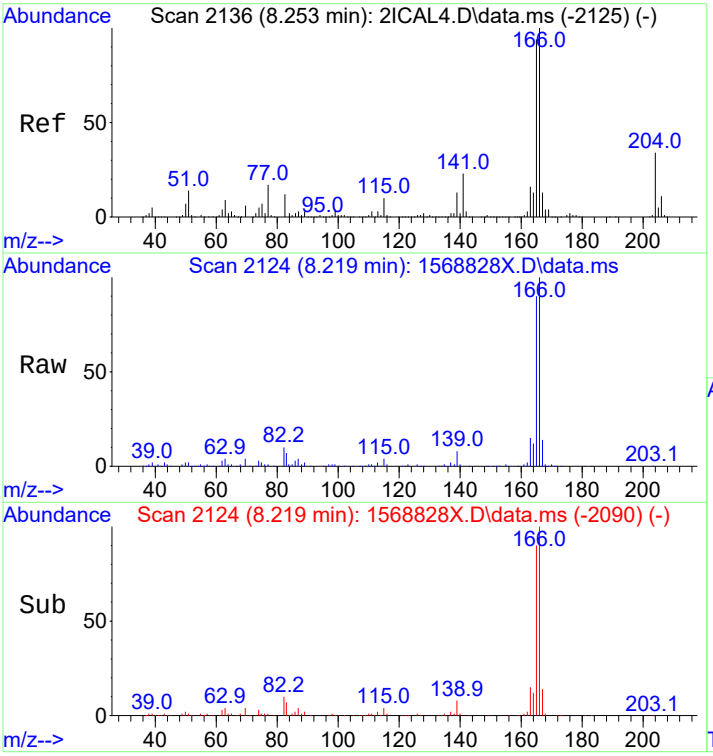




#53
Dibenzofuran
Concen: 1.15 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:168 Resp: 32950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 37.7 | 11.9 | 71.9 |

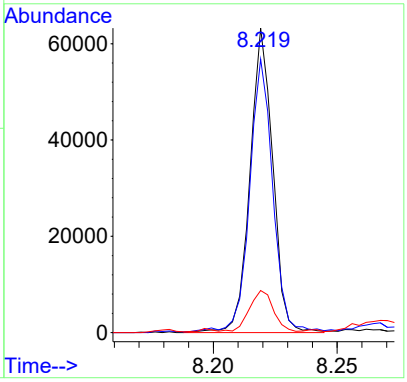


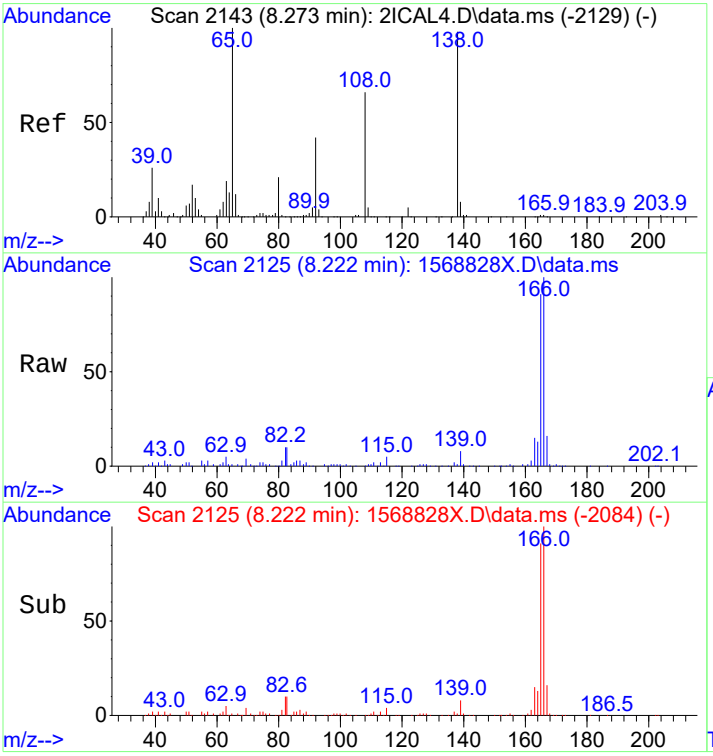



#58
Fluorene
Concen: 1.85 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.003 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:166 Resp: 40578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 89.6 | 63.6 | 123.6 |
| 167 | 13.6 | 0.0 | 43.3 |

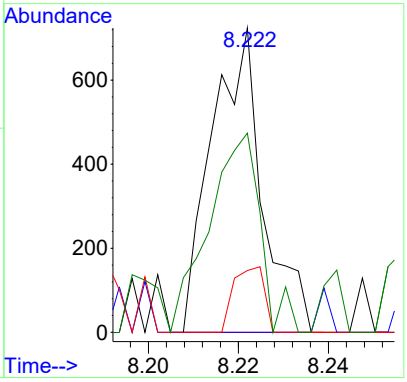


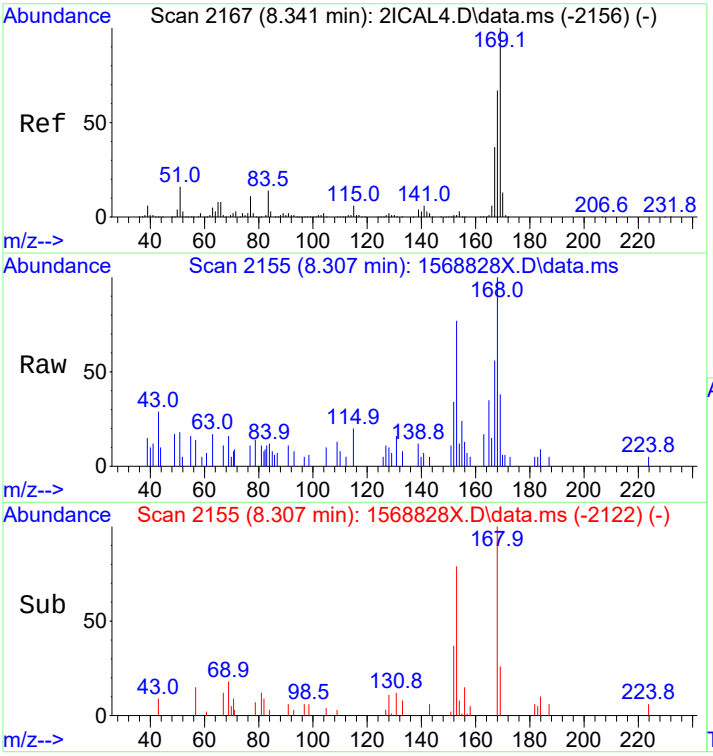




#61
4Nitroaniline
Concen: 0.43 ug/mL
RT: 8.222 min Scan# 2125
Delta R.T. -0.023 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:138 Resp: 574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 20.3 | 36.9 | 96.9# |
| 65 | 50.1 | 71.1 | 131.1# |

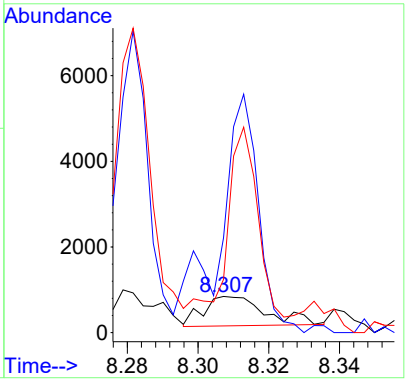


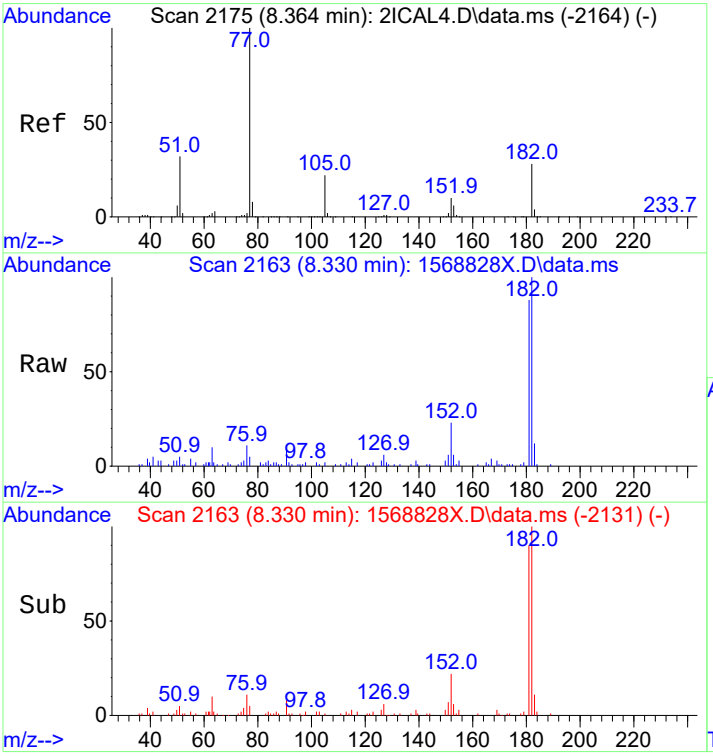



#65
Ntrsdiphlam&Diphlam
Concen: 0.05 ug/mL
RT: 8.307 min Scan# 2155
Delta R.T. -0.006 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:169 Resp: 847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 313.3 | 37.2 | 97.2# |
| 167 | 103.4 | 6.9 | 66.9# |

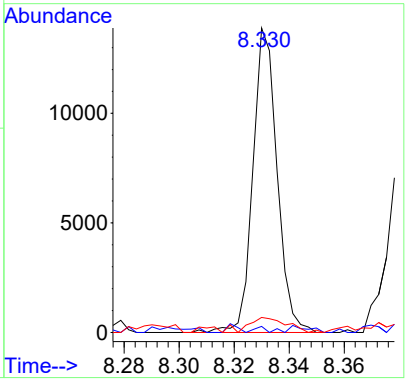


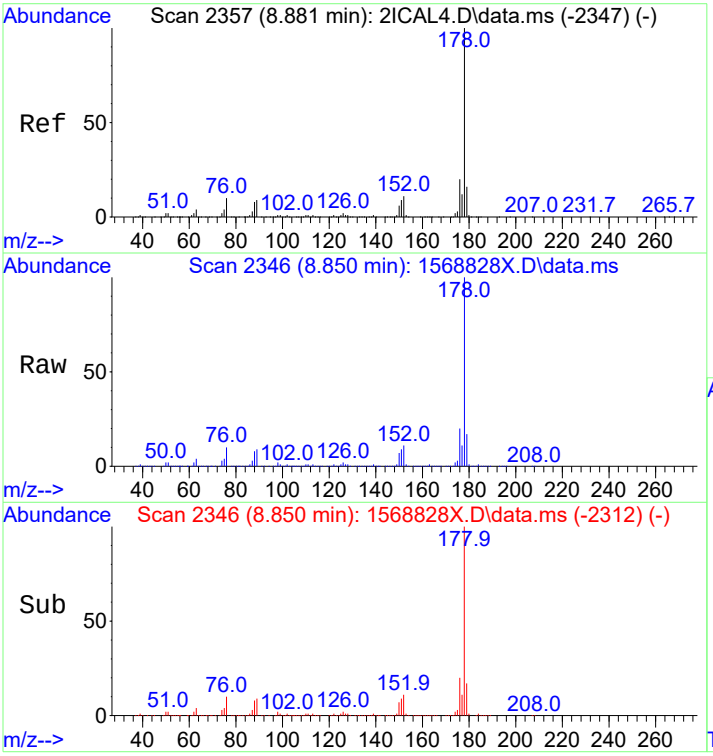




#66
Azobenz&12Diphlhyd
Concen: 1.51 ug/mL
RT: 8.330 min Scan# 2163
Delta R.T. -0.009 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:182 Resp: 8512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 2.0 | 49.9 | 109.9# |
| 77 | 4.9 | 339.9 | 399.9# |

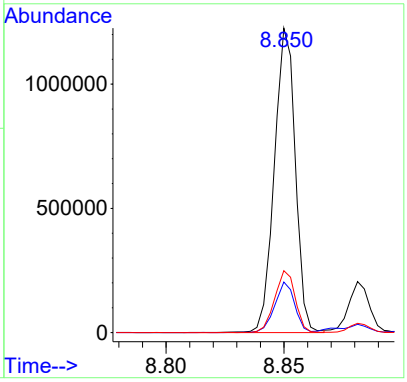


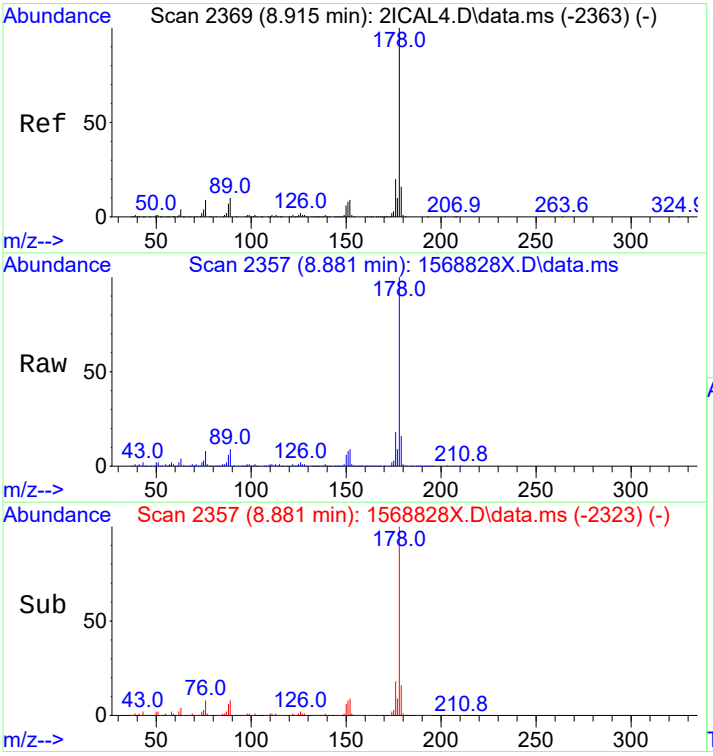



#70
Phenanthrene
Concen: 25.29 ug/mL
RT: 8.850 min Scan# 2346
Delta R.T. -0.003 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:178 Resp: 756221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.6 | 0.0 | 45.9 |
| 176 | 20.3 | 0.0 | 50.4 |

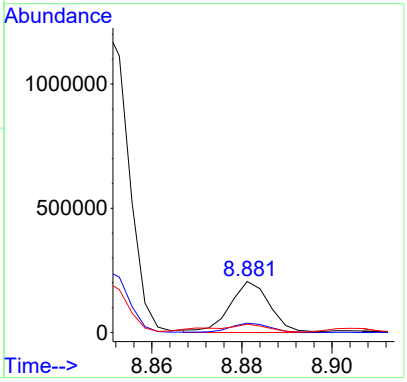


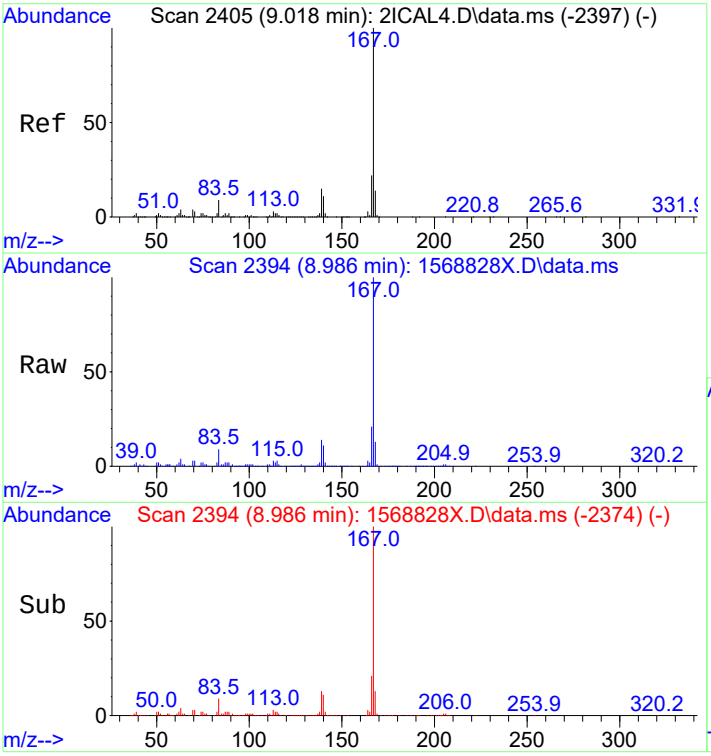




#71
Anthracene
Concen: 4.14 ug/mL
RT: 8.881 min Scan# 2357
Delta R.T. -0.003 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:178 Resp: 126044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 0.0 | 49.5 |
| 179 | 12.7 | 0.0 | 45.9 |

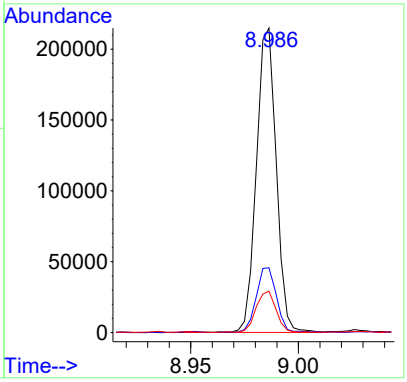


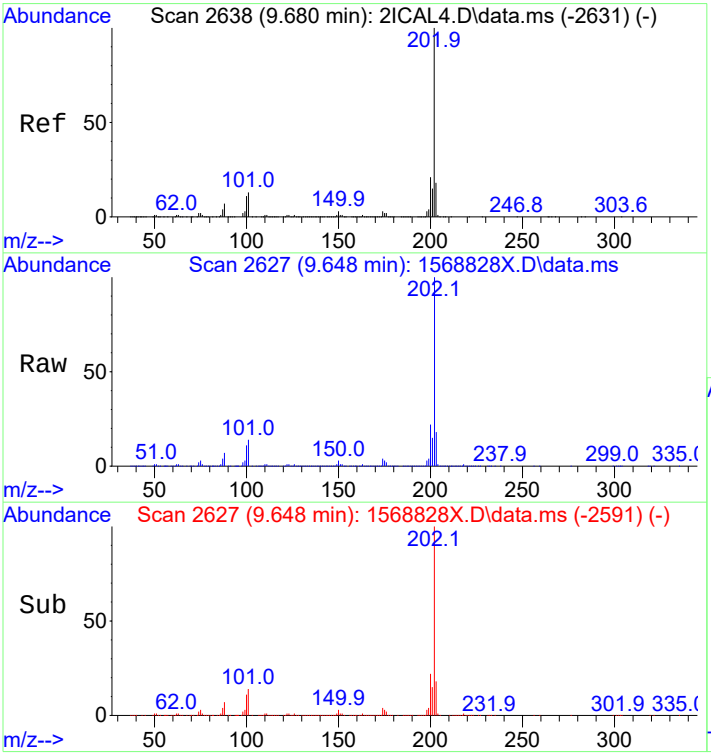



#72
Carbazole
Concen: 5.30 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:167 Resp: 137355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.2 | 0.0 | 52.1 |
| 139 | 13.5 | 0.0 | 44.7 |

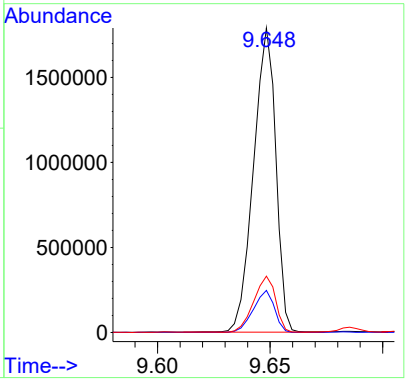


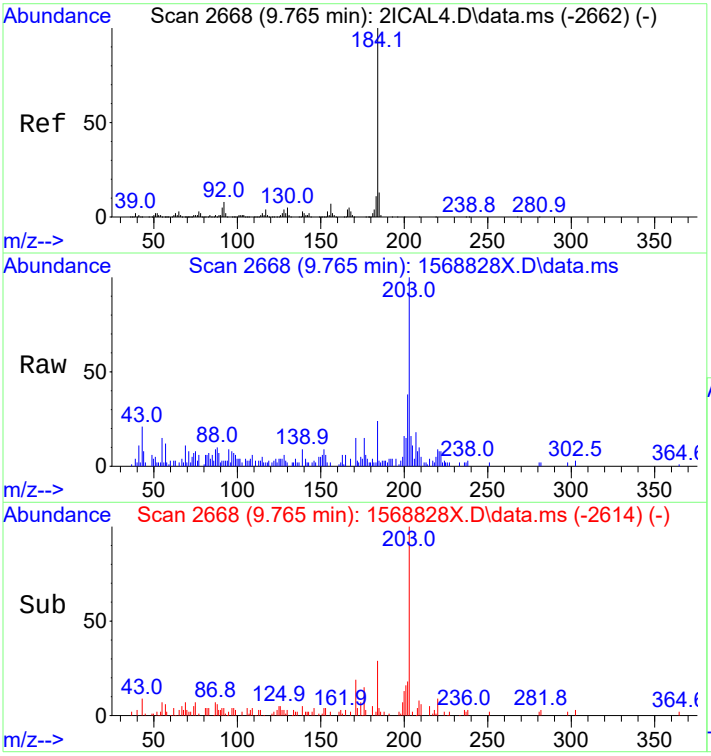




#74
Fluoranthene
Concen: 39.06 ug/mL
RT: 9.648 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:202 Resp: 1233352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.8 | 0.0 | 43.0 |
| 203 | 18.4 | 0.0 | 48.2 |

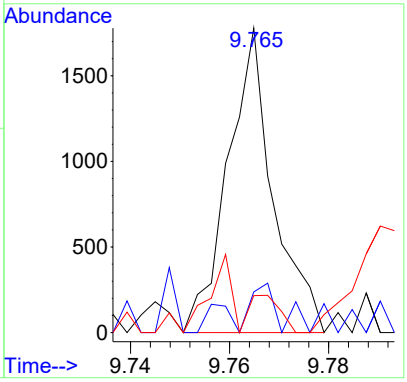


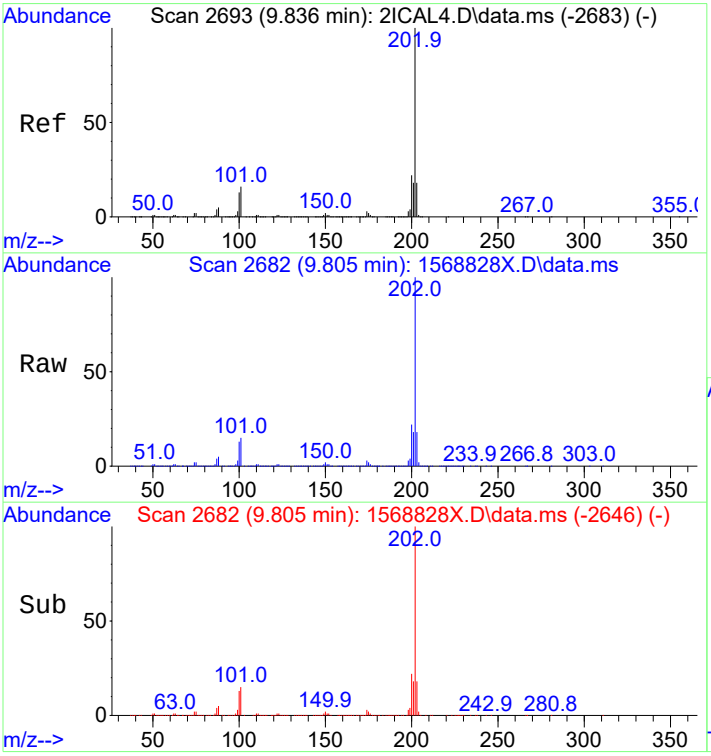



#76
Benzidine
Concen: Below Cal
RT: 9.765 min Scan# 2668
Delta R.T. 0.034 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:184 Resp: 1130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 11.9 | 0.0 | 38.2 |
| 185 | 11.5 | 0.0 | 43.3 |

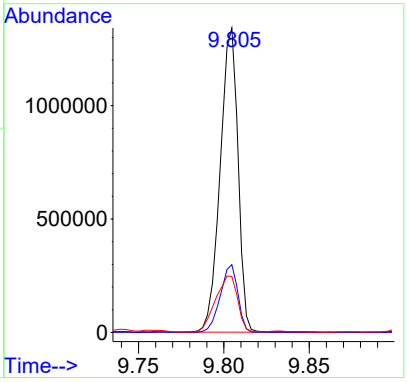


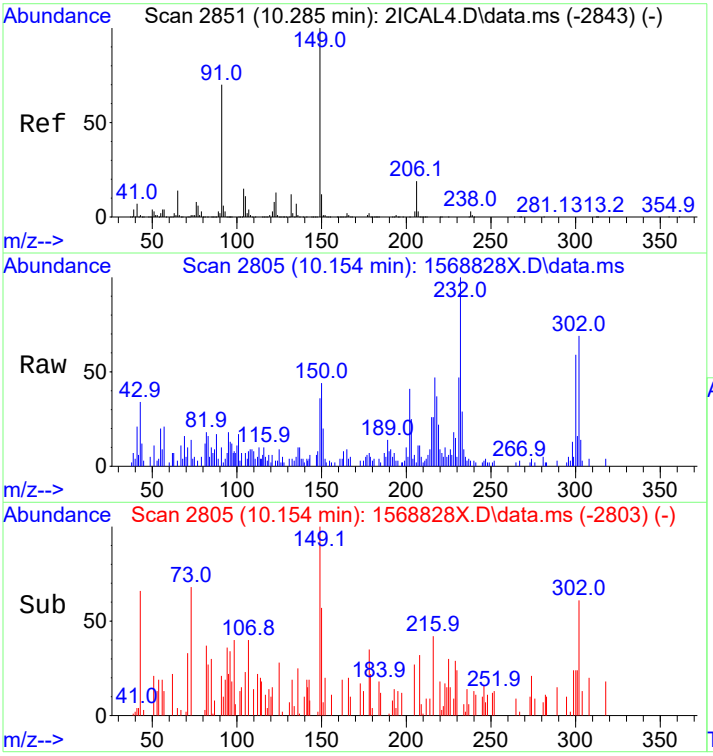




#77
Pyrene
Concen: 28.42 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:202 Resp: 975714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.3 | 0.0 | 52.2 |
| 203 | 18.3 | 0.0 | 48.2 |

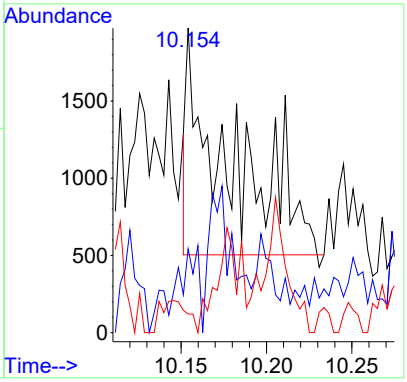


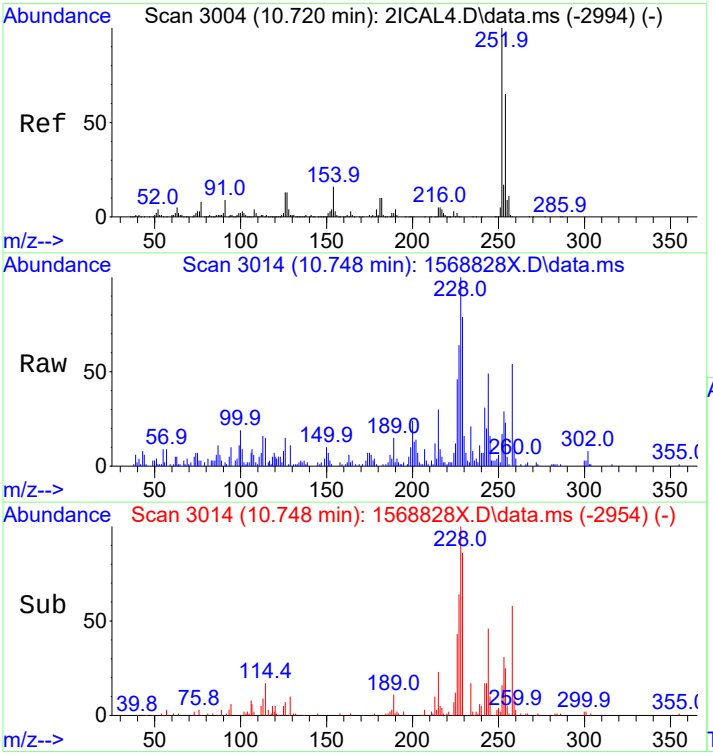



#79
Btylbzylphth
Concen: 0.14 ug/mL
RT: 10.154 min Scan# 2805
Delta R.T. -0.094 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:149 Resp: 2456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 20.2 | 40.1 | 100.1# |
| 206 | 0.0 | 0.0 | 49.4 |

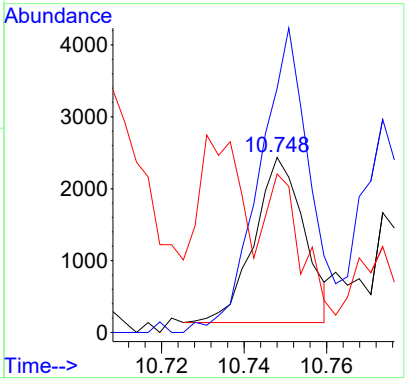


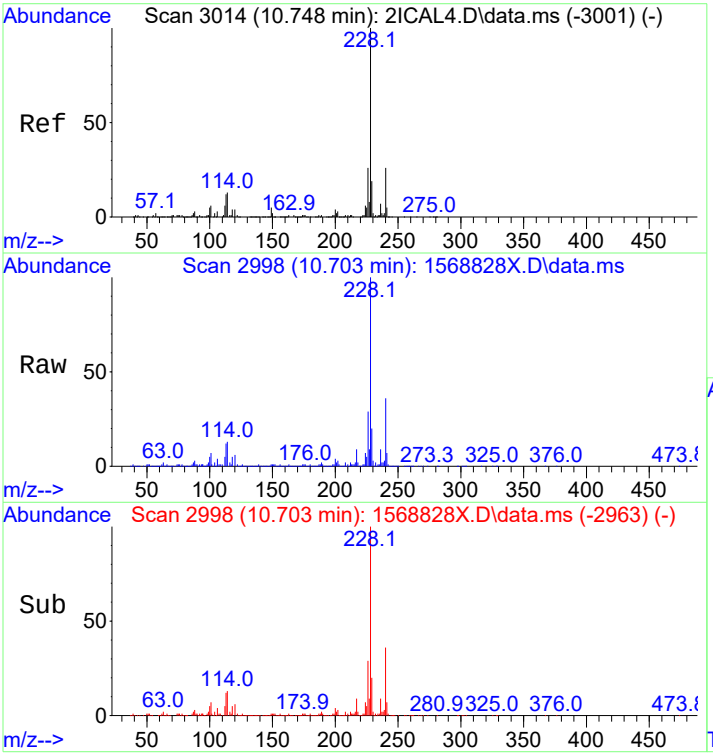




#81
33Diclbnzidin
Concen: 0.01 ug/mL
RT: 10.748 min Scan# 3014
Delta R.T. 0.071 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:252 Resp: 1934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 147.7 | 34.6 | 94.6# |
| 126 | 76.5 | 0.0 | 42.6# |

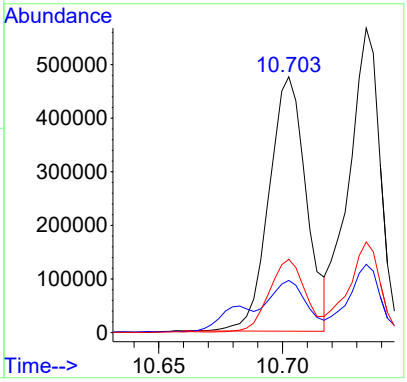


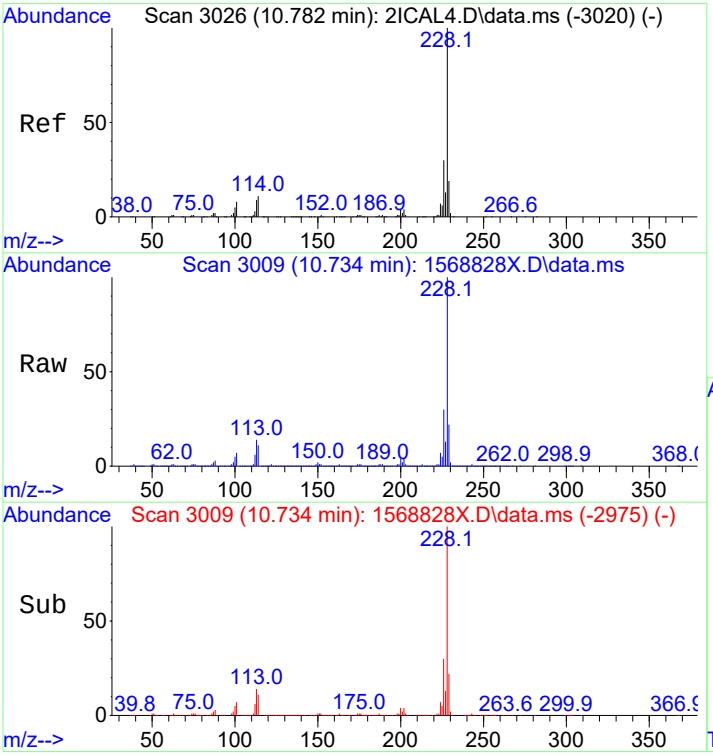



#82
B[a]anthracen
Concen: 15.23 ug/mL
RT: 10.703 min Scan# 2998
Delta R.T. -0.000 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:228 Resp: 495773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.1 | 0.0 | 49.4 |
| 226 | 28.6 | 0.0 | 56.5 |

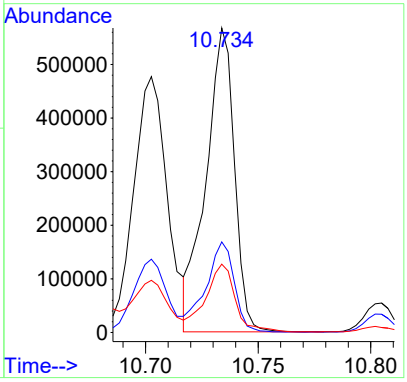


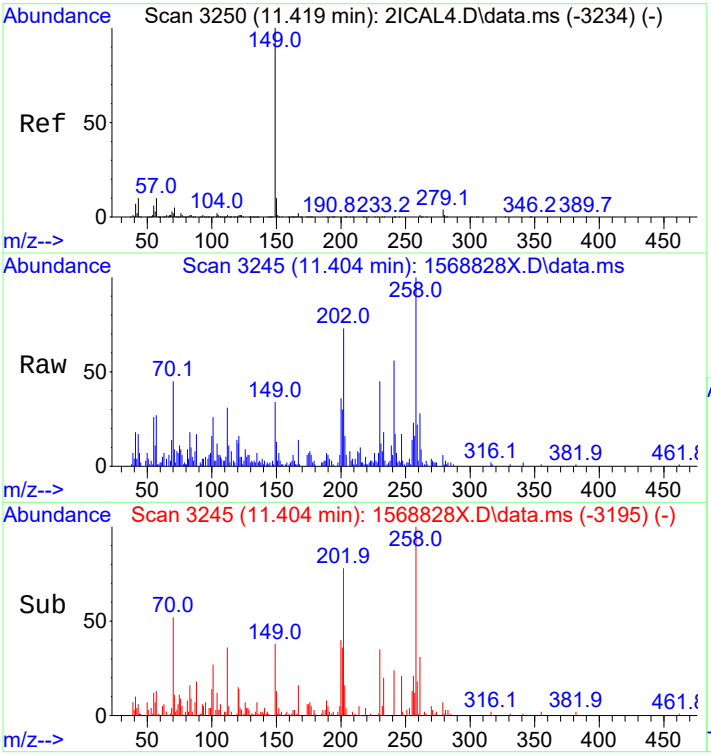




#83
Chrysene
Concen: 16.34 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.003 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:228 Resp: 498742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.6 | 0.0 | 59.9 |
| 229 | 22.3 | 0.0 | 49.5 |

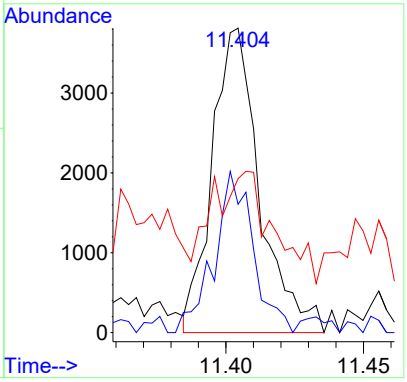


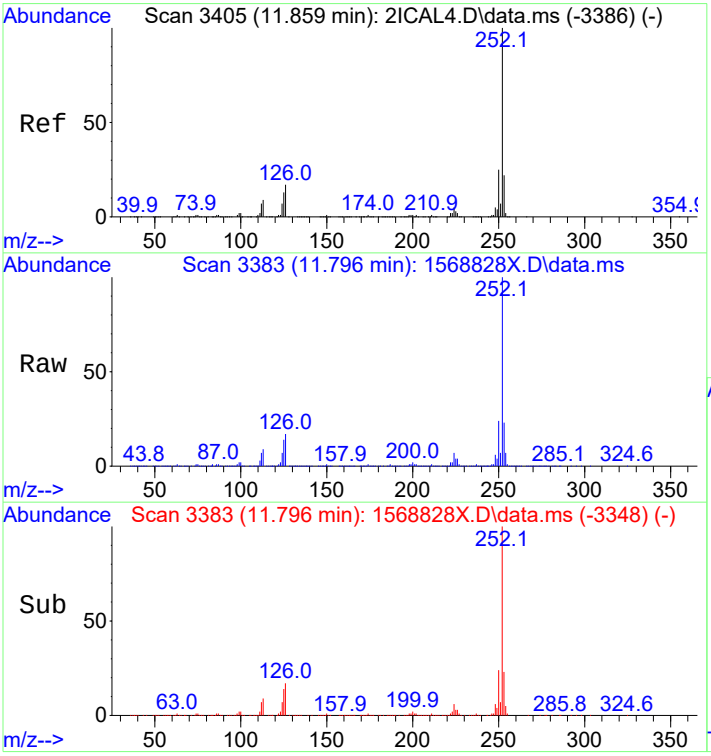



#85
Dinoctylphthl
Concen: 0.42 ug/mL
RT: 11.404 min Scan# 3245
Delta R.T. 0.043 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:149 Resp: 4581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 38.9 | 0.0 | 31.6# |
| 43 | 24.4 | 0.0 | 39.9 |

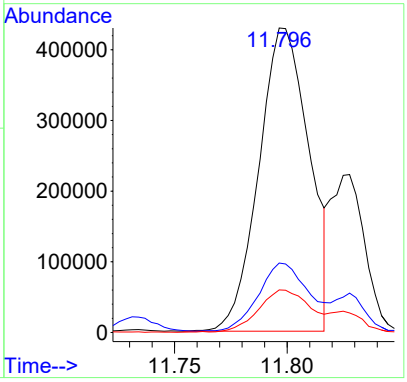


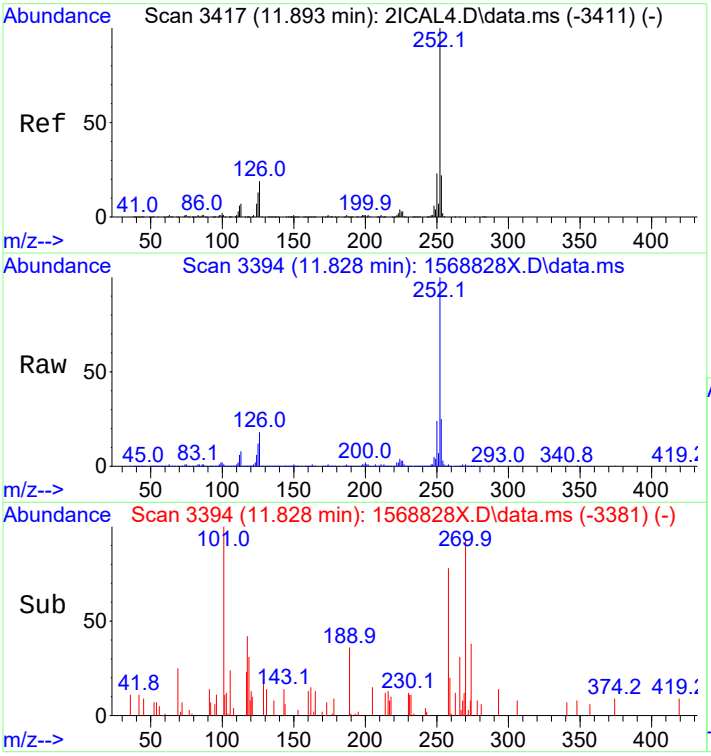




#87
B[b]fluoranth
Concen: 23.31 ug/mL
RT: 11.796 min Scan# 3383
Delta R.T. -0.000 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:252 Resp: 668074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 0.0 | 52.3 |
| 125 | 13.9 | 0.0 | 43.2 |

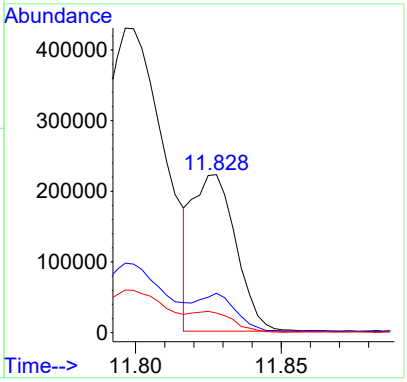


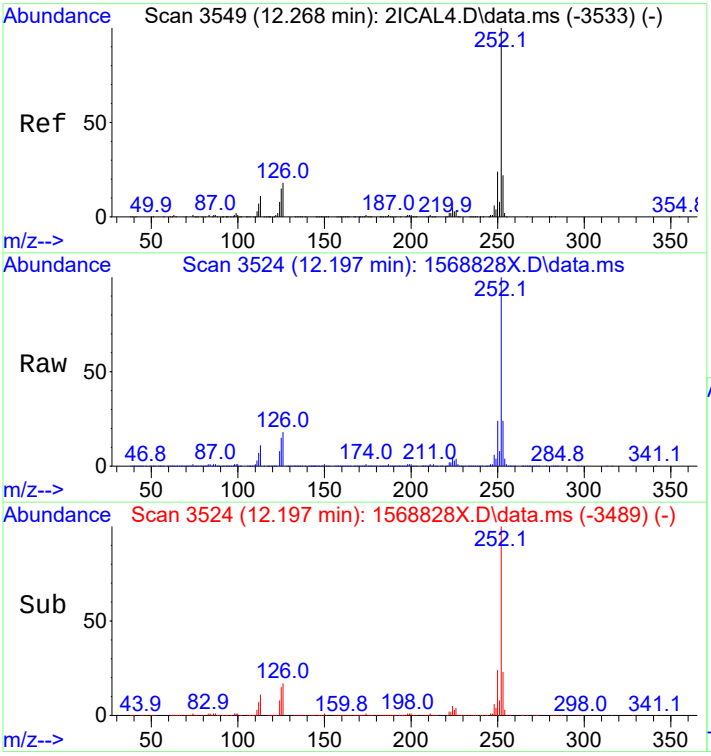



#88
B[k]fluoranth
Concen: 7.95 ug/mL
RT: 11.828 min Scan# 3394
Delta R.T. -0.003 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:252 Resp: 228258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.8 | 0.0 | 52.0 |
| 125 | 12.1 | 0.0 | 43.3 |

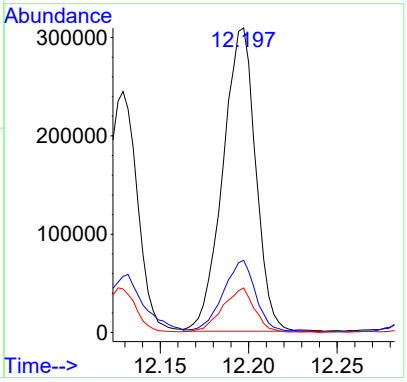


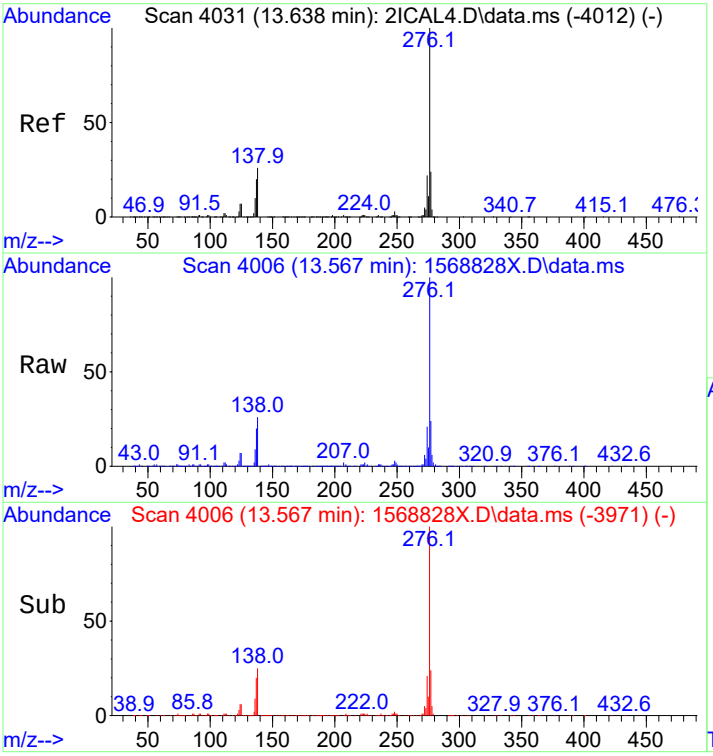




#89
Benz[a]pyrene
Concen: 15.13 ug/mL
RT: 12.197 min Scan# 3524
Delta R.T. -0.000 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:252 Resp: 398828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 0.0 | 52.3 |
| 125 | 14.5 | 0.0 | 45.1 |

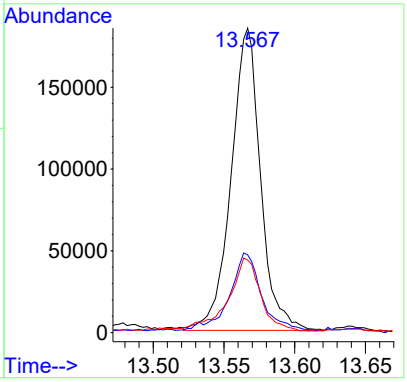


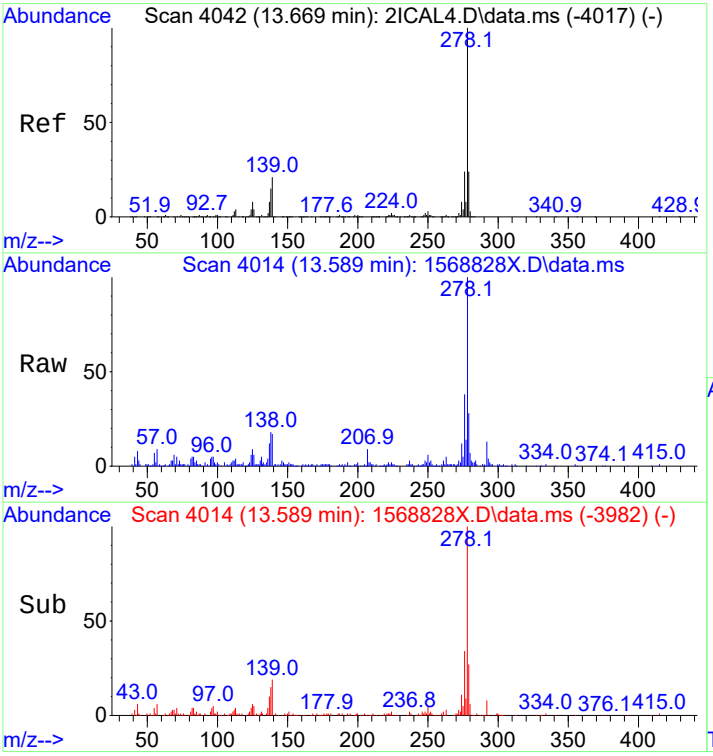



#90
Indeno-pyrene
Concen: 9.19 ug/mL
RT: 13.567 min Scan# 4006
Delta R.T. -0.000 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:276 Resp: 267797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.2 | 0.0 | 55.5 |
| 277 | 23.2 | 0.0 | 54.0 |

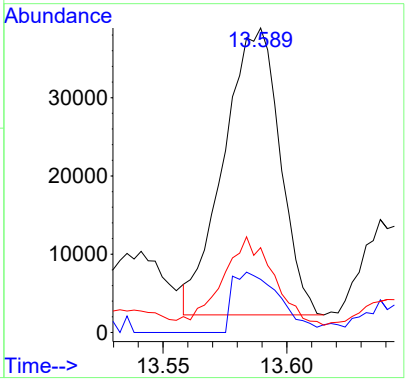


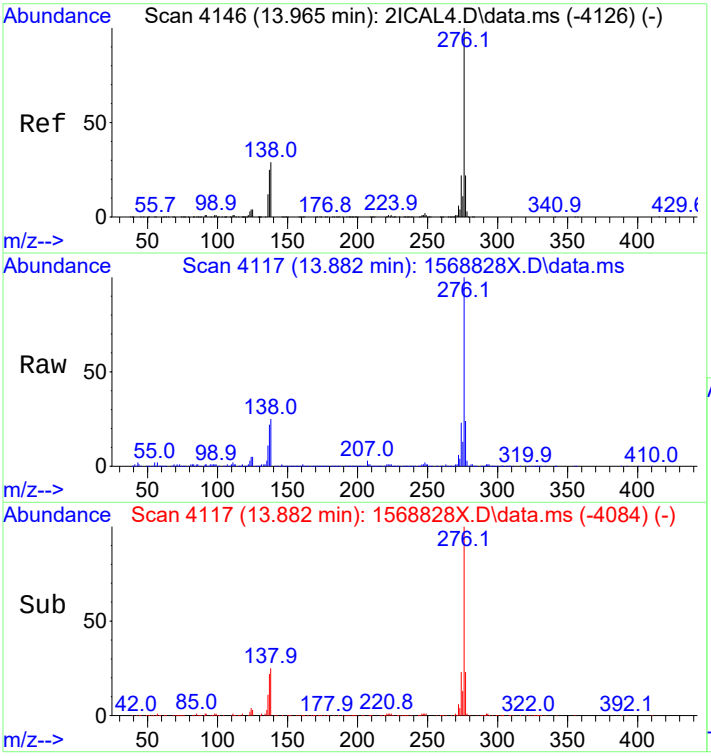




#91
Dib[ah]anthr
Concen: 2.43 ug/mL
RT: 13.589 min Scan# 4014
Delta R.T. -0.009 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:278 Resp: 57911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.5 | 0.0 | 50.9 |
| 279 | 27.0 | 0.0 | 54.4 |

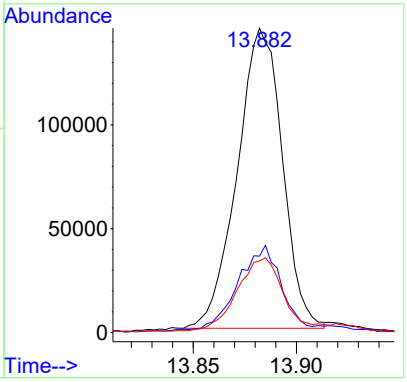





#92
B[ghi]perylen
Concen: 9.63 ug/mL
RT: 13.882 min Scan# 4117
Delta R.T. -0.006 min
Lab File: 1568828X.D
Acq: 11 Apr 2025 12:36

Tgt Ion:276 Resp: 219862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.4 | 0.0 | 59.0 |
| 277 | 23.1 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568823D.D Vial: 9
Acq On : 11 Apr 2025 14:09 Operator: JJY
Sample : 290730,1568823,2 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:08 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 162932 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 791246 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.779 | 164 | 439263 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 636618 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 564783 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.277 | 264 | 547762 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.082 | 112 | 119838 | 30.55 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 30.55% | | | |
| 7) SURRPhenol-d5 | 3.894 | 99 | 162447 | 34.45 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 34.45% | | | |
| 22) SURRNitrbenzened5 | 4.988 | 82 | 75862 | 35.19 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 35.19% | | | |
| 44) SURR2Flbiphenyl | 7.193 | 172 | 195265 | 37.26 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 37.26% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 33118 | 28.17 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 28.17% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 211176 | 38.34 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 38.34% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.255 | 74 | 552 | 0.0875 | ug/mL# | 1 |
| 3) Pyridine | 2.593 | 79 | 3046 | 0.2702 | ug/mL | 89 |
| 14) bis2clispreth | 4.616 | 45 | 2112 | 0.1127 | ug/mL | 65 |
| 26) 24Dimthpheno | 5.648 | 122 | 2300 | 0.2163 | ug/mL# | 5 |
| 30) Benzoic acid | 5.648 | 122 | 2779 | 3.3504 | ug/mL# | 71 |
| 31) Naphthalene | 6.026 | 128 | 34712 | 0.9512 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.821 | 142 | 9472 | 0.4295 | ug/mL | 87 |
| 38) 1Methylnaphth | 6.918 | 142 | 7064 | 0.3097 | ug/mL | 97 |
| 47) Acnaphthylene | 7.657 | 152 | 5110 | 0.1437 | ug/mL | 96 |
| 50) Acenaphthene | 7.804 | 154 | 71423 | 3.3805 | ug/mL | 97 |
| 53) Dibenzofuran | 7.949 | 168 | 45663 | 1.4966 | ug/mL | 92 |
| 55) 4-Nitrophenol | 7.952 | 65 | 729 | 1.4179 | ug/mL# | 1 |
| 56) 2,3,5,6-Tetrachlorop | 8.049 | 232 | 210 | 0.5846 | ug/mL# | 21 |
| 57) 2,3,4,6-Tetrachlorop | 8.049 | 232 | 210 | 0.3590 | ug/mL# | 28 |
| 58) Fluorene | 8.219 | 166 | 53573 | 2.2969 | ug/mL | 96 |
| 61) 4Nitroaniline | 8.219 | 138 | 730 | 0.4537 | ug/mL# | 54 |
| 65) Ntrsdiphlam&Diphlam | 8.282 | 169 | 5300 | 0.3229 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.330 | 182 | 11228 | 1.9184 | ug/mL# | 1 |
| 70) Phenanthrene | 8.853 | 178 | 932362 | 30.0610 | ug/mL | 99 |
| 71) Anthracene | 8.881 | 178 | 163648 | 5.1859 | ug/mL | 97 |
| 72) Carbazole | 8.986 | 167 | 176089 | 6.5532 | ug/mL | 97 |
| 74) Fluoranthene | 9.648 | 202 | 1490949 | 45.5235 | ug/mL | 99 |
| 76) Benzidine | 9.768 | 184 | 1350 | Below Cal # | | 36 |
| 77) Pyrene | 9.805 | 202 | 1178984 | 32.8646 | ug/mL | 98 |
| 81) 33Diclbnzidin | 10.751 | 252 | 2597 | 0.0935 | ug/mL# | 1 |
| 82) B[a]anthracen | 10.705 | 228 | 589228 | 17.3286 | ug/mL | 99 |
| 83) Chrysene | 10.737 | 228 | 597844 | 18.7471 | ug/mL | 97 |
| 84) bis2Ethlhxlph | 10.714 | 149 | 3113 | 0.1203 | ug/mL | 84 |
| 85) Dinoctylphthl | 11.407 | 149 | 111401 | 2.8368 | ug/mL# | 48 |
| 87) B[b]fluoranth | 11.805 | 252 | 811958 | 27.9832 | ug/mL | 97 |
| 88) B[k]fluoranth | 11.831 | 252 | 258825 | 8.9031 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.203 | 252 | 468012 | 17.5389 | ug/mL | 99 |
| 90) Indeno-pyrene | 13.572 | 276 | 287571 | 9.7436 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.589 | 278 | 62081 | 2.5732 | ug/mL | 92 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568823D.D Vial: 9
Acq On : 11 Apr 2025 14:09 Operator: JJY
Sample : 290730,1568823,2 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:08 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

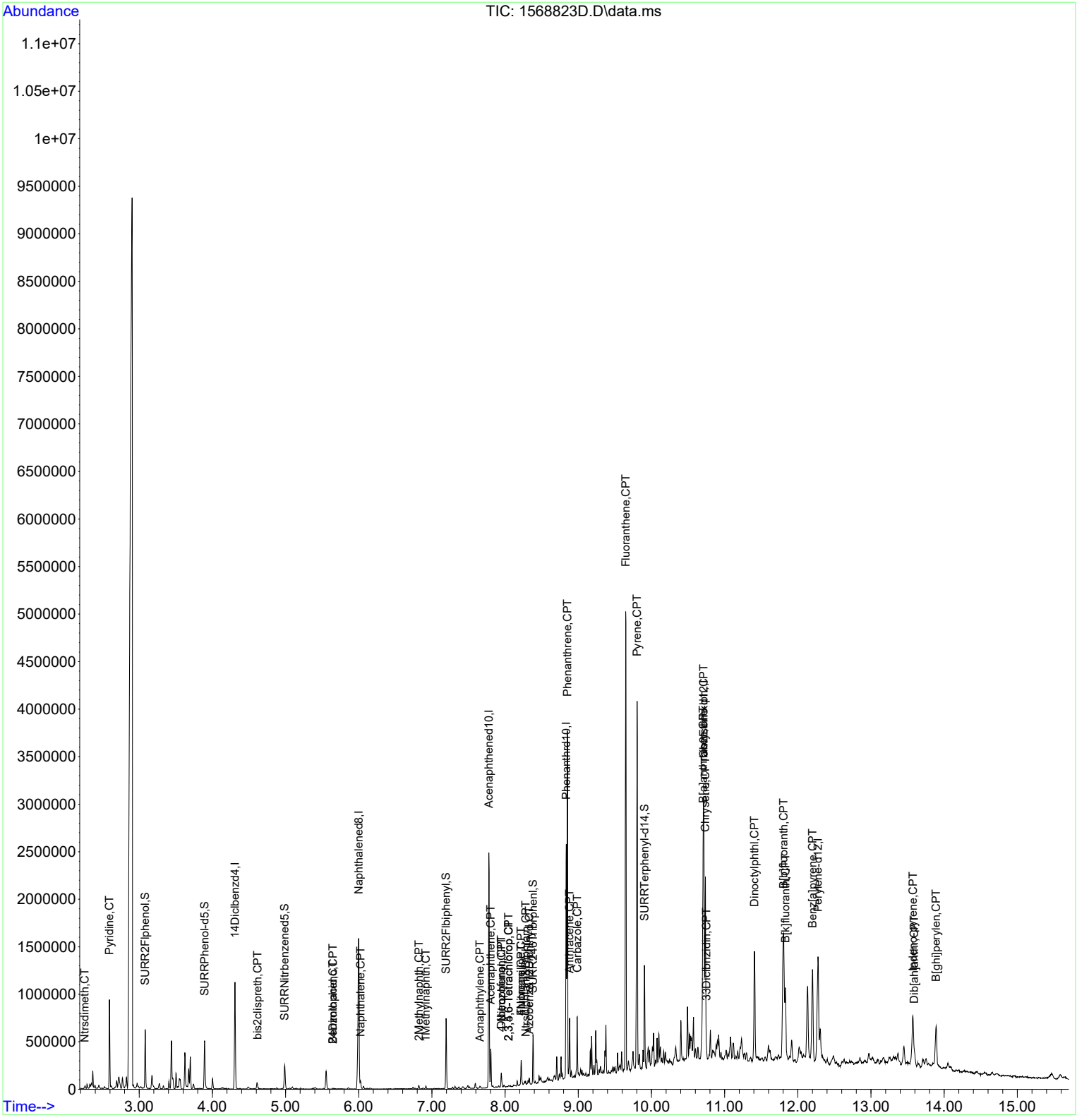
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) B[ghi]perylen | 13.891 | 276 | 245201 | 10.6040 | ug/mL | 98 |

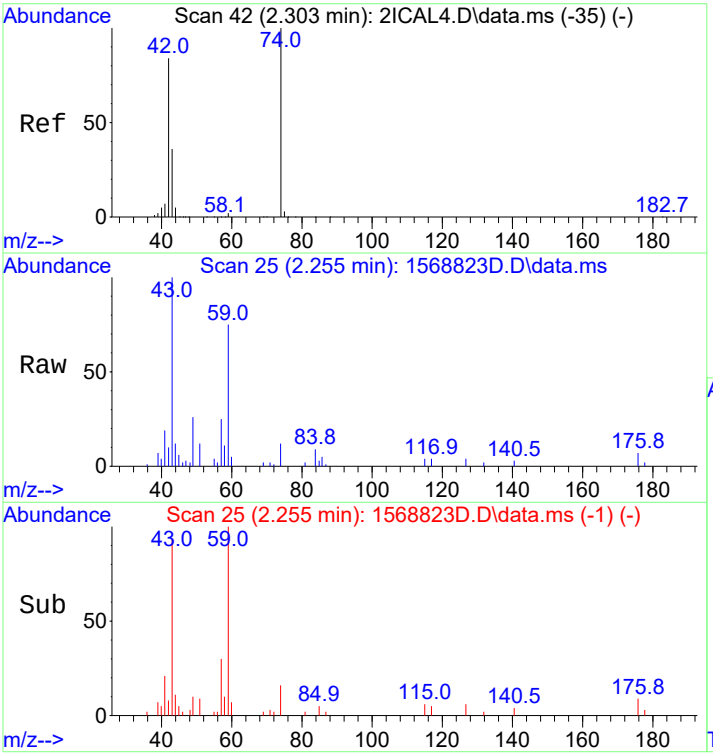
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568823D.D Vial: 9
Acq On : 11 Apr 2025 14:09 Operator: JJY
Sample : 290730,1568823,2 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:08 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

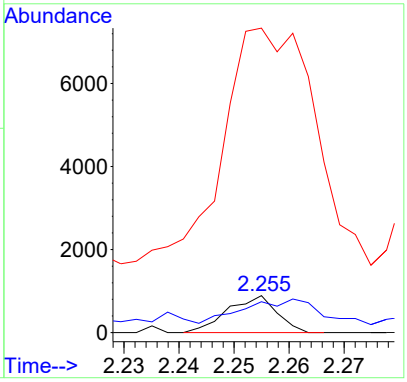


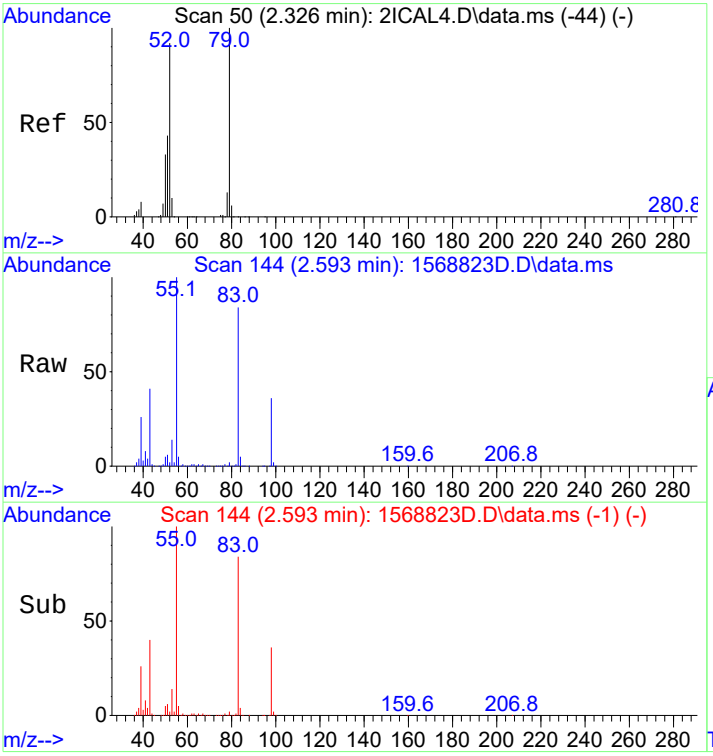



#2
Ntrsdimeth
Concen: 0.09 ug/mL
RT: 2.255 min Scan# 25
Delta R.T. -0.020 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion: 74 Resp: 552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 46.8 | 53.9 | 113.9# |
| 43 | 569.8 | 6.0 | 66.0# |

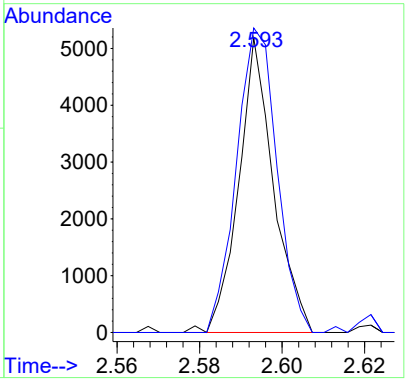


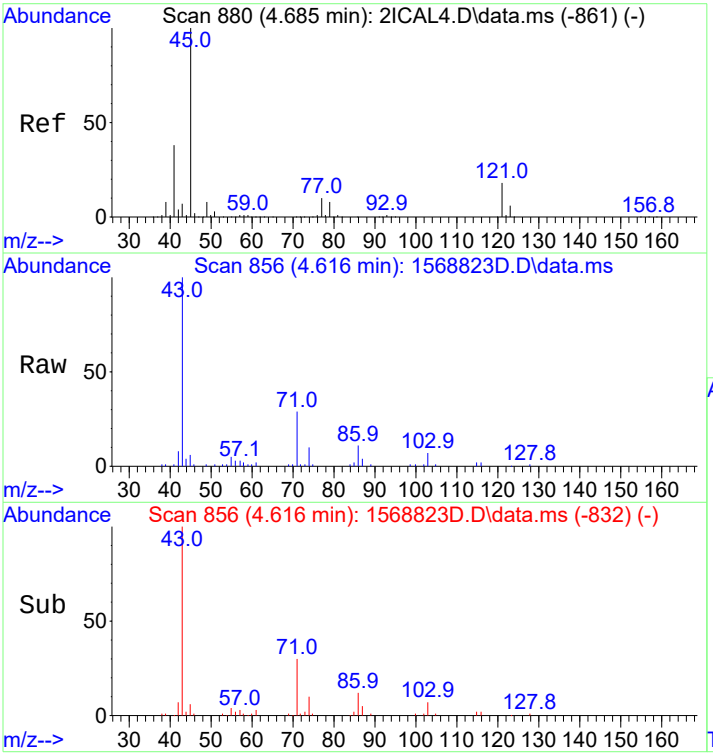




#3
Pyridine
Concen: 0.27 ug/mL
RT: 2.593 min Scan# 144
Delta R.T. 0.298 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion: 79 Resp: 3046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 103.4 | 62.5 | 122.5 |

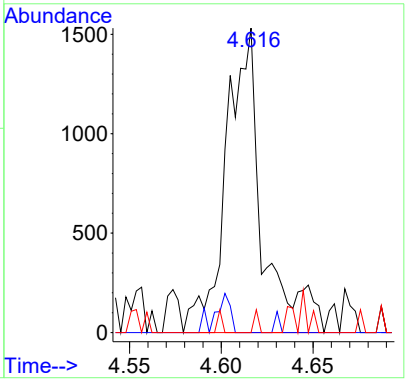


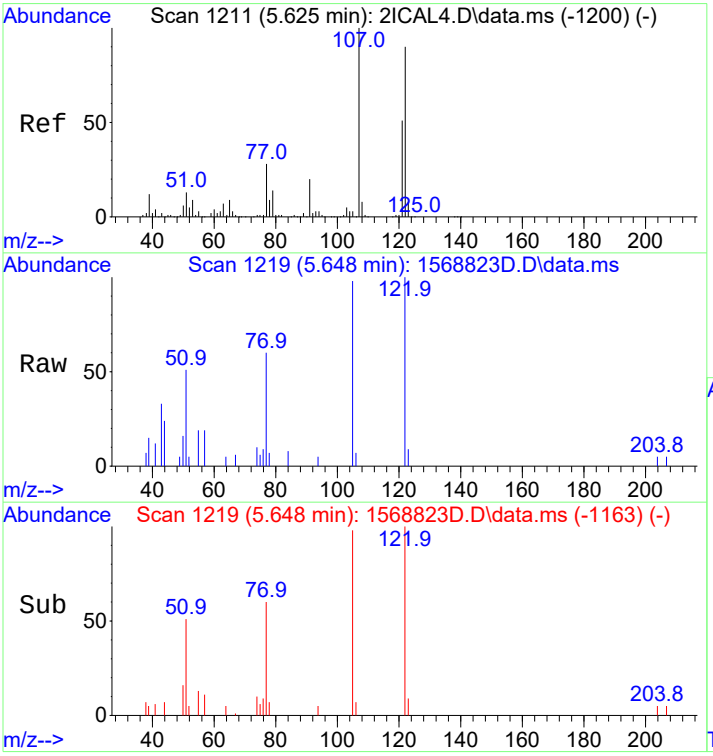



#14
bis2clispreth
Concen: 0.11 ug/mL
RT: 4.616 min Scan# 856
Delta R.T. -0.031 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion: 45 Resp: 2112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 0.0 | 0.0 | 47.5 |
| 77 | 0.0 | 0.0 | 40.1 |

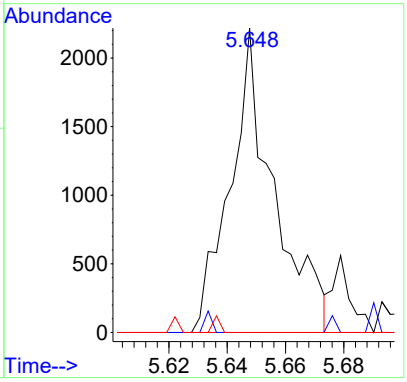


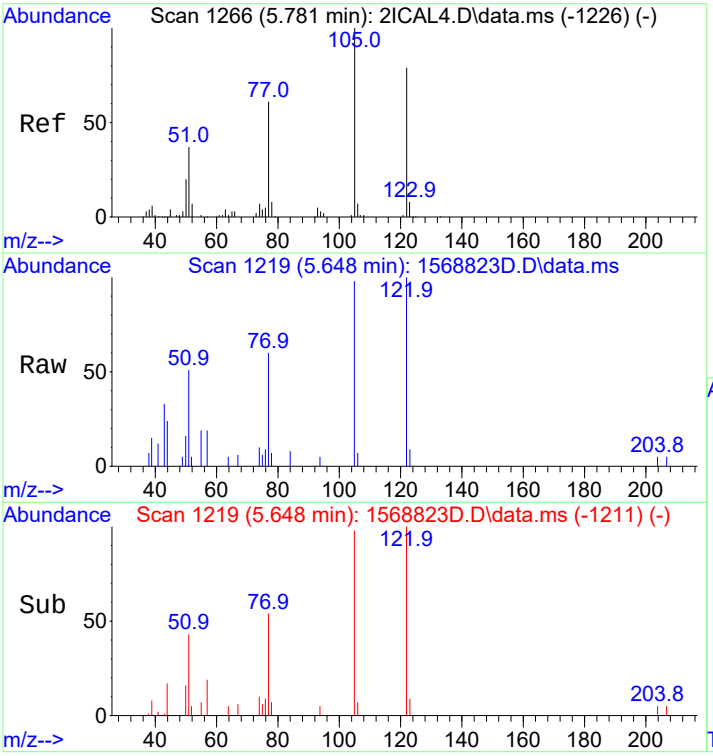




#26
24Dimthpheno
Concen: 0.22 ug/mL
RT: 5.648 min Scan# 1219
Delta R.T. 0.060 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:122 Resp: 2300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 0.0 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

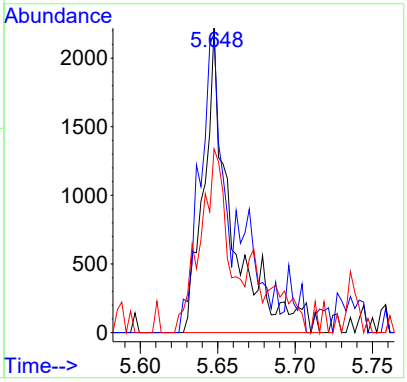


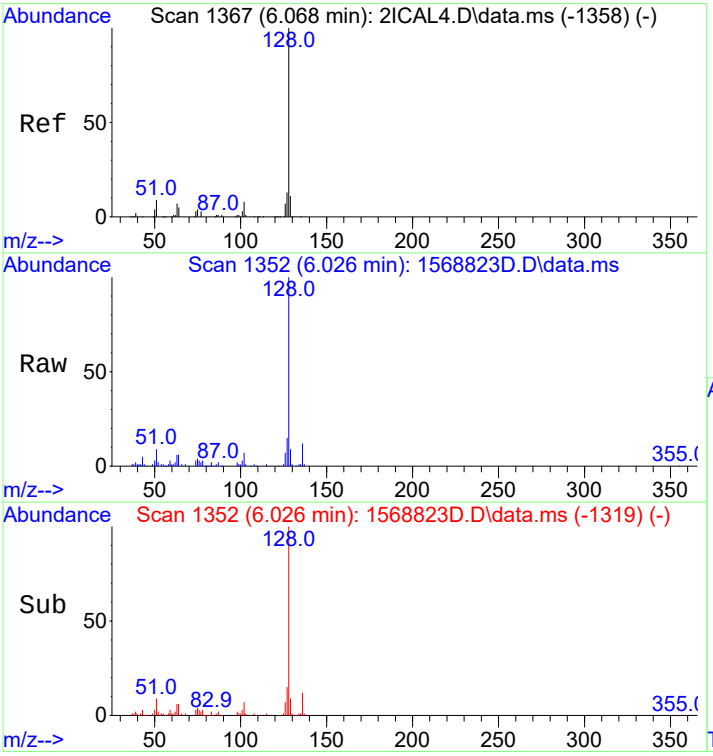



#30
Benzoic acid
Concen: 3.35 ug/mL
RT: 5.648 min Scan# 1219
Delta R.T. -0.108 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:122 Resp: 2779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 91.2 | 96.0 | 156.0# |
| 77 | 53.0 | 46.6 | 106.6 |

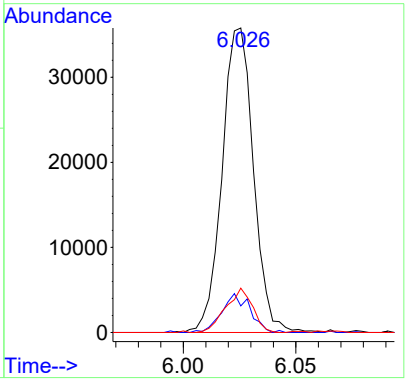


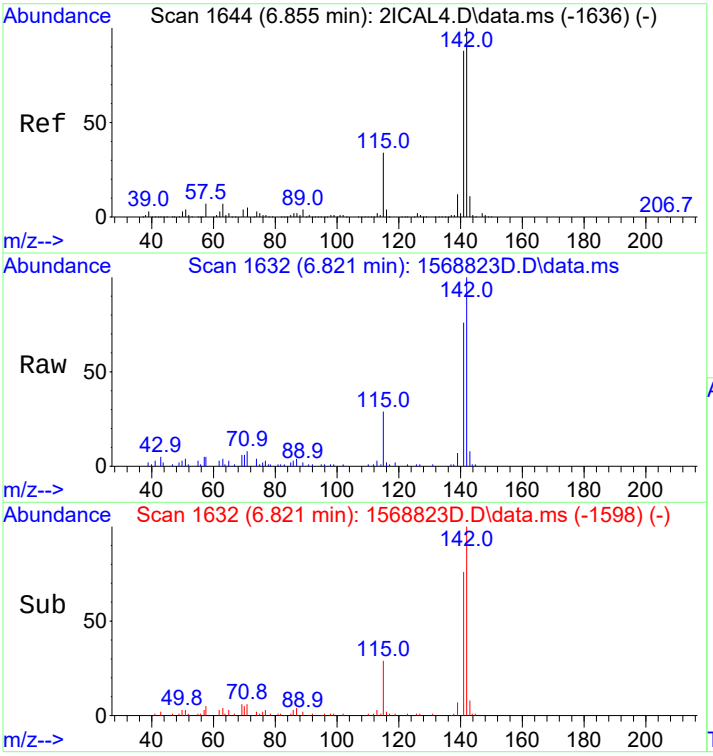




#31
Naphthalene
Concen: 0.95 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.006 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:128 Resp: 34712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 8.7 | 0.0 | 41.0 |
| 127 | 14.2 | 0.0 | 43.3 |

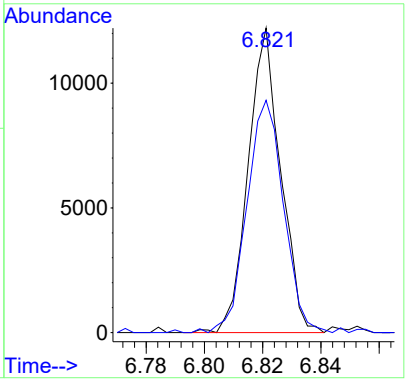


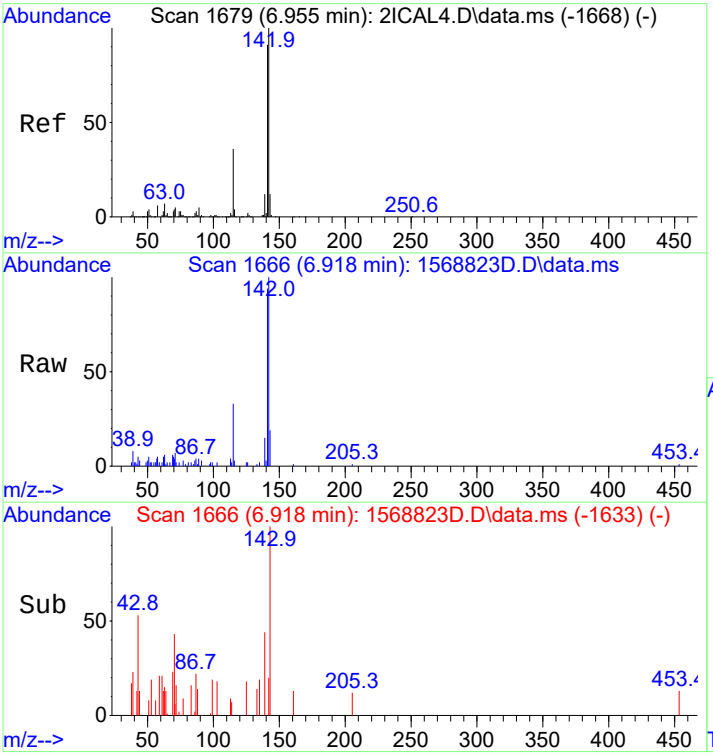



#37
2Methylnaphth
Concen: 0.43 ug/mL
RT: 6.821 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:142 Resp: 9472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 76.3 | 58.0 | 118.0 |

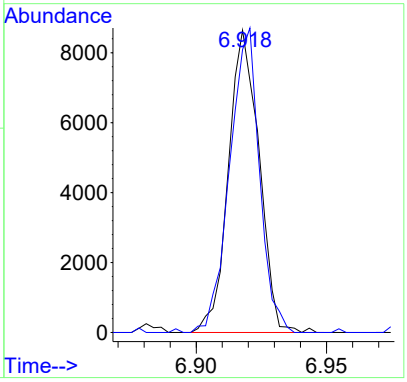


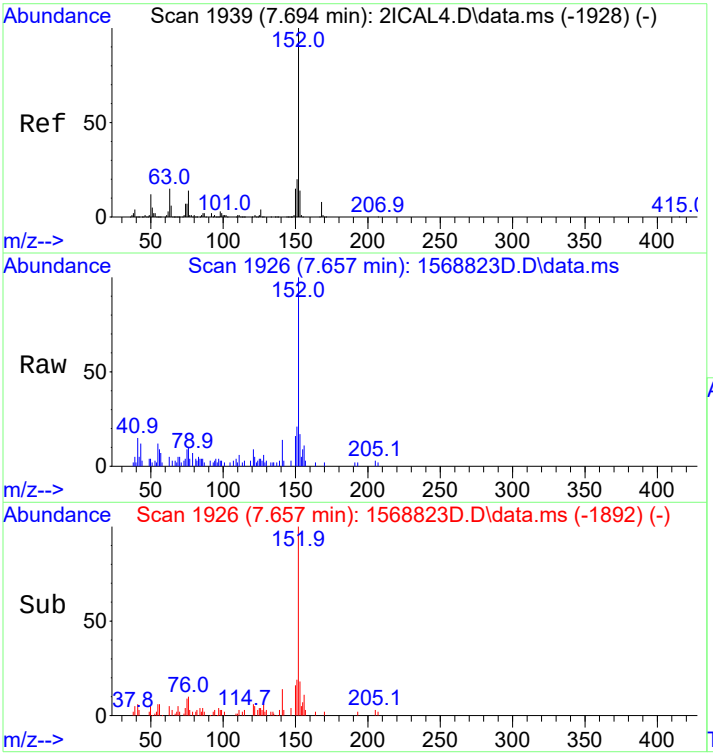




#38
1Methylnaphth
Concen: 0.31 ug/mL
RT: 6.918 min Scan# 1666
Delta R.T. -0.006 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:142 Resp: 7064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.6 | 60.7 | 120.7 |

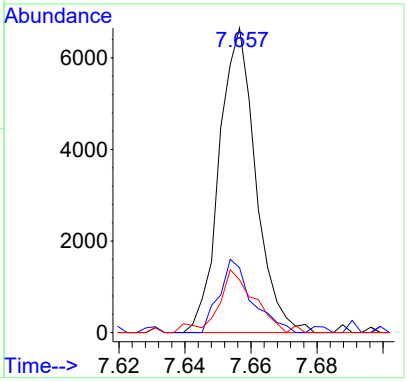


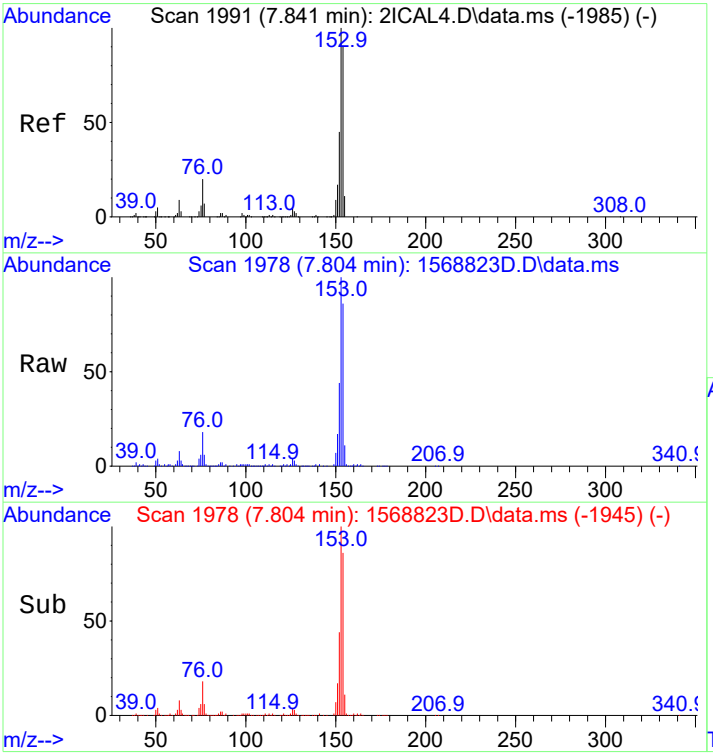



#47
Acnaphthylene
Concen: 0.14 ug/mL
RT: 7.657 min Scan# 1926
Delta R.T. -0.003 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:152 Resp: 5110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.3 | 0.0 | 50.3 |
| 153 | 17.3 | 0.0 | 44.4 |

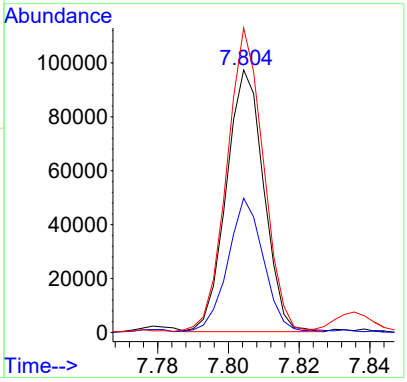


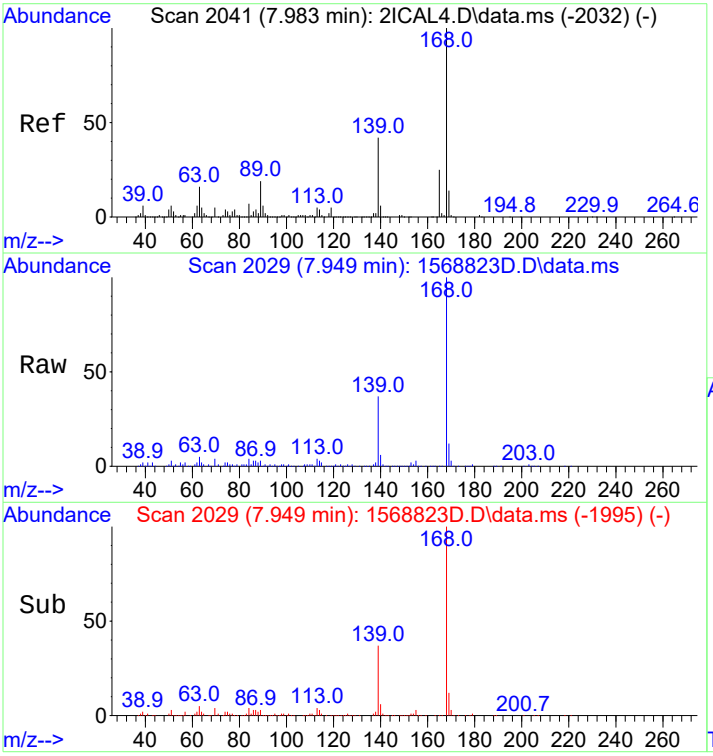




#50
Acenaphthene
Concen: 3.38 ug/mL
RT: 7.804 min Scan# 1978
Delta R.T. -0.006 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:154 Resp: 71423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 50.8 | 20.0 | 80.0 |
| 153 | 115.3 | 80.7 | 140.7 |

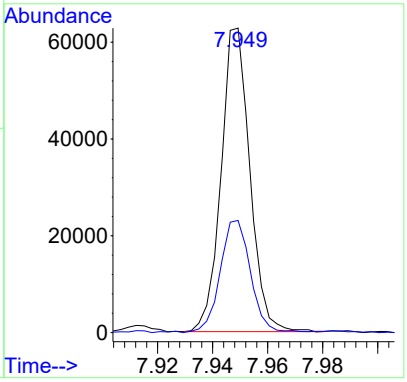


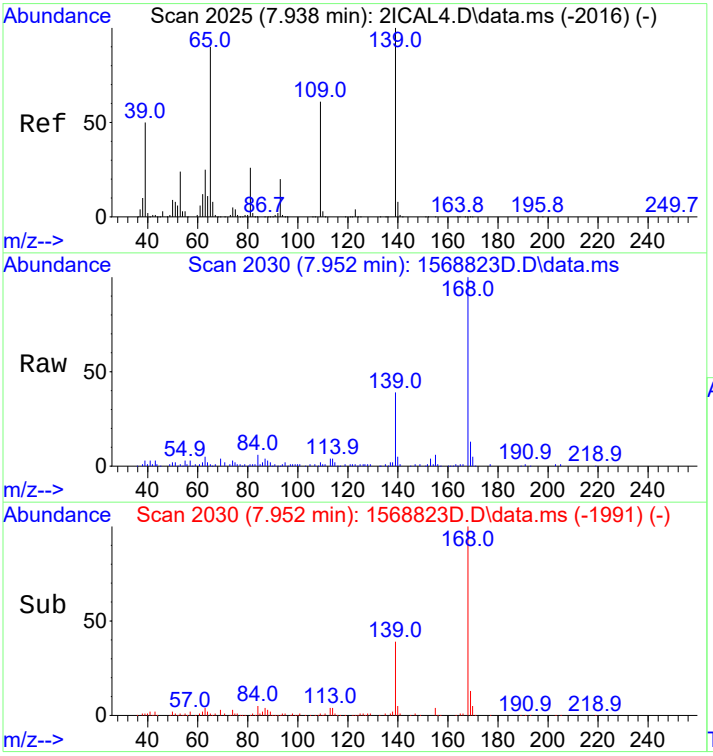



#53
Dibenzofuran
Concen: 1.50 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:168 Resp: 45663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 37.0 | 11.9 | 71.9 |

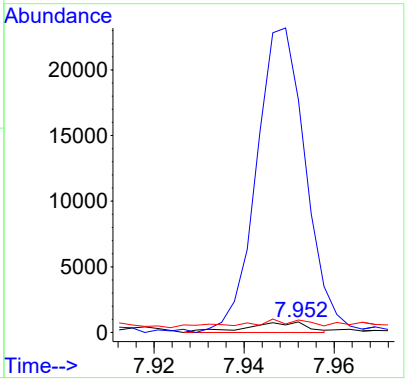


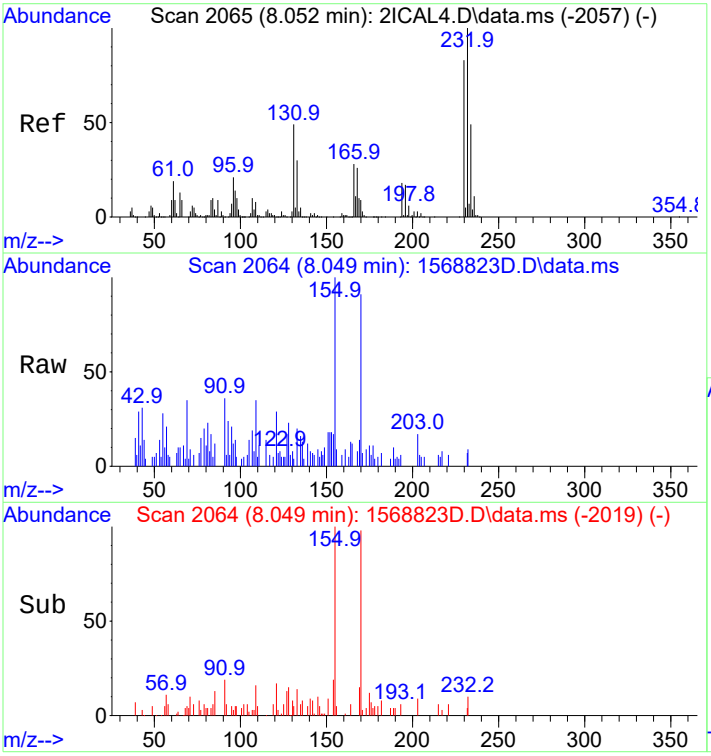




#55
4-Nitrophenol
Concen: 1.42 ug/mL
RT: 7.952 min Scan# 2030
Delta R.T. 0.045 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion: 65 Resp: 729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 2779.0 | 80.5 | 140.5# |
| 109 | 71.2 | 37.6 | 97.6 |

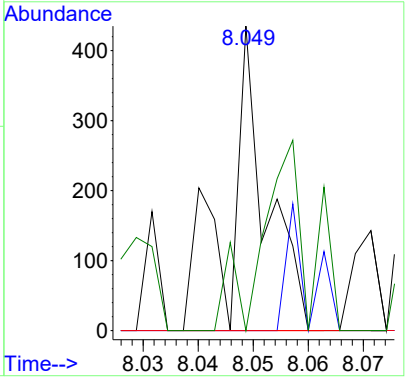


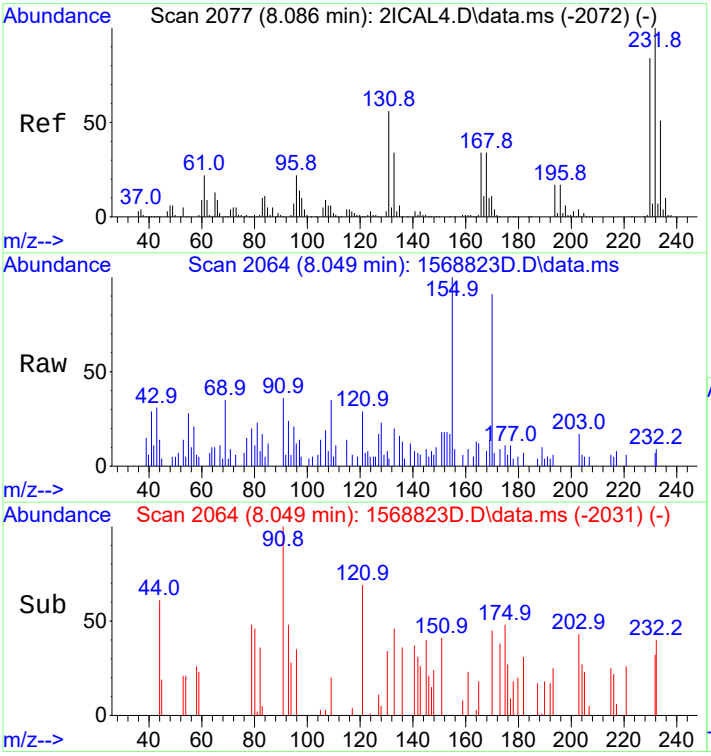



#56
2,3,5,6-Tetrachlorop
Concen: 0.58 ug/mL
RT: 8.049 min Scan# 2064
Delta R.T. 0.028 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:232 Resp: 210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 194 | 0.0 | 0.0 | 48.3 |
| 234 | 0.0 | 18.5 | 78.5# |
| 230 | 0.0 | 52.6 | 112.6# |

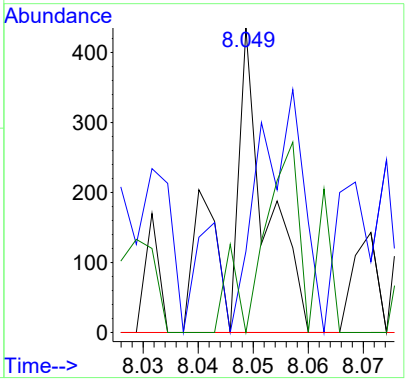


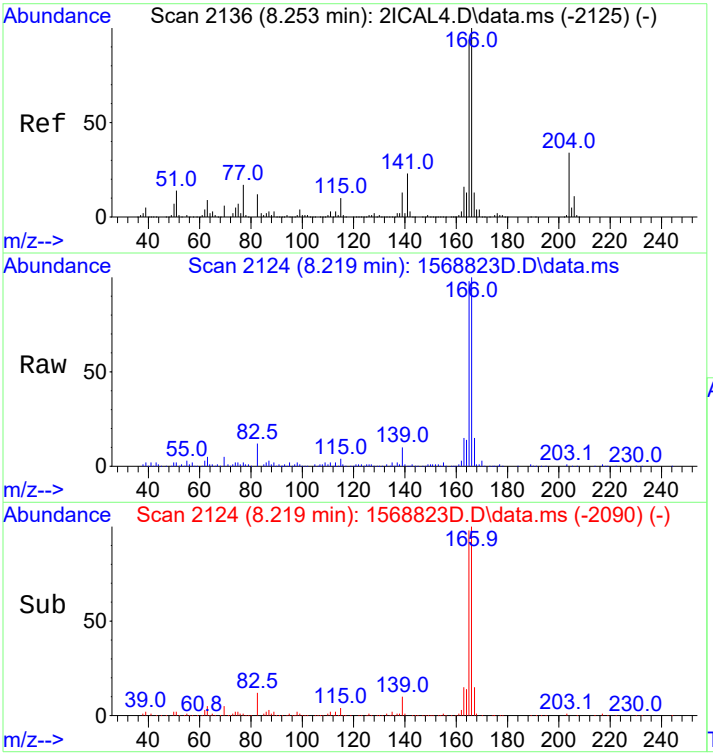




#57
2,3,4,6-Tetrachlorop
Concen: 0.36 ug/mL
RT: 8.049 min Scan# 2064
Delta R.T. -0.006 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:232 Resp: 210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 26.7 | 35.2 | 75.2# |
| 234 | 0.0 | 31.0 | 71.0# |
| 230 | 0.0 | 64.0 | 104.0# |

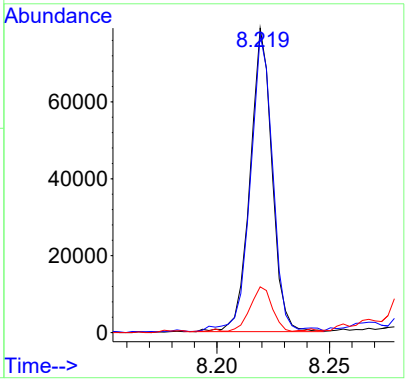


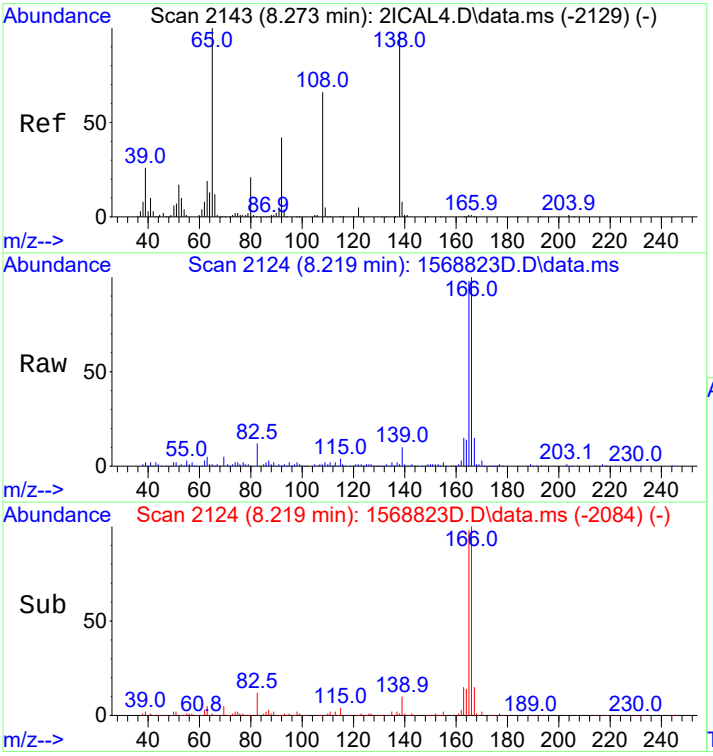



#58
Fluorene
Concen: 2.30 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.003 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:166 Resp: 53573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.6 | 63.6 | 123.6 |
| 167 | 14.4 | 0.0 | 43.3 |

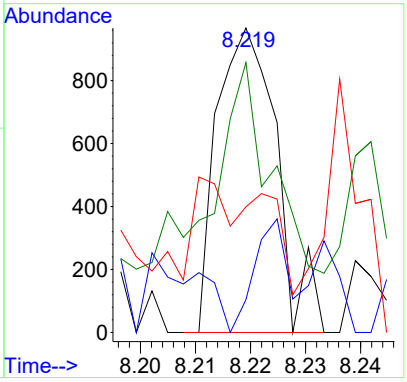


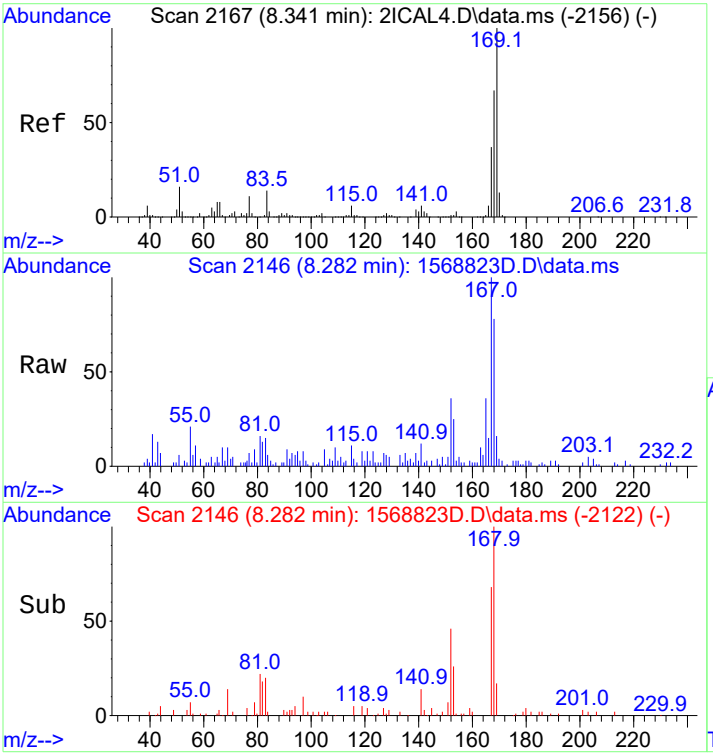




#61
4Nitroaniline
Concen: 0.45 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.026 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:138 Resp: 730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 24.1 | 36.9 | 96.9# |
| 65 | 69.2 | 71.1 | 131.1# |

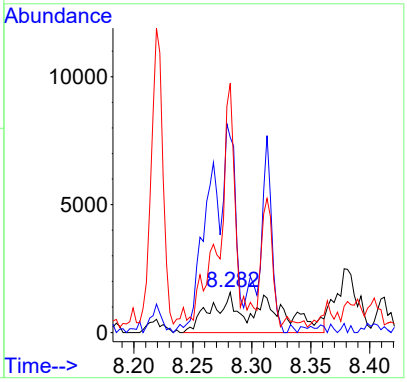


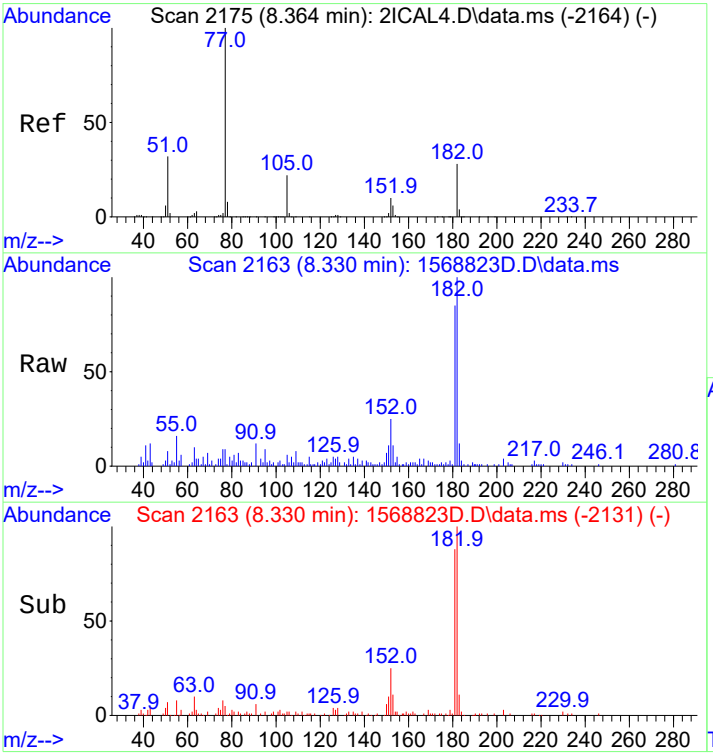



#65
Ntrsdiphlam&Diphlam
Concen: 0.32 ug/mL
RT: 8.282 min Scan# 2146
Delta R.T. -0.031 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:169 Resp: 5300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 471.4 | 37.2 | 97.2# |
| 167 | 575.1 | 6.9 | 66.9# |

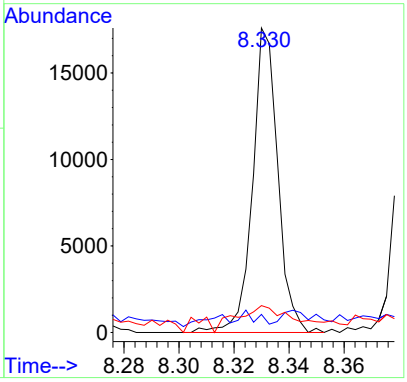


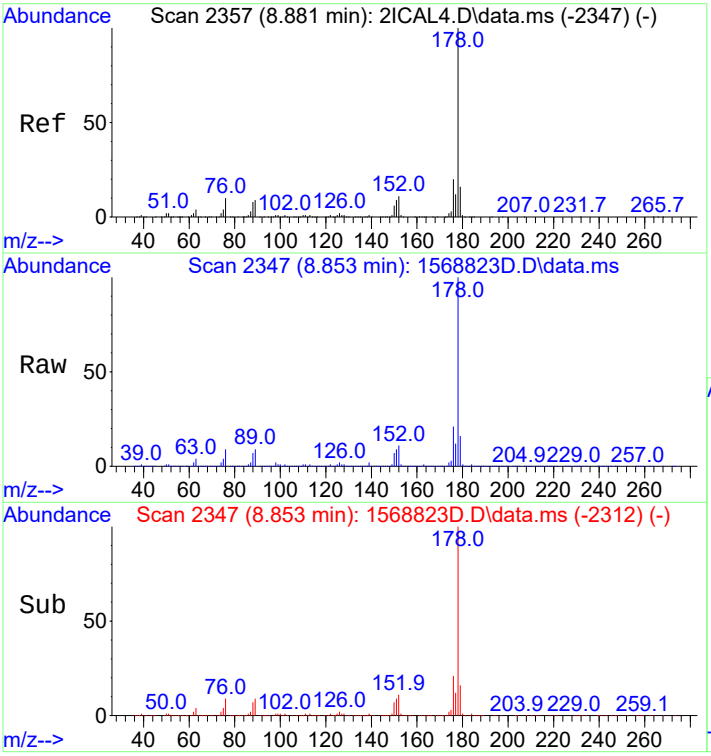




#66
Azobenz&12Diphlhyd
Concen: 1.92 ug/mL
RT: 8.330 min Scan# 2163
Delta R.T. -0.009 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:182 Resp: 11228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 2.2 | 49.9 | 109.9# |
| 77 | 9.8 | 339.9 | 399.9# |

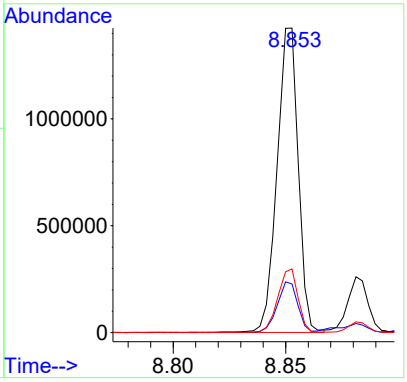


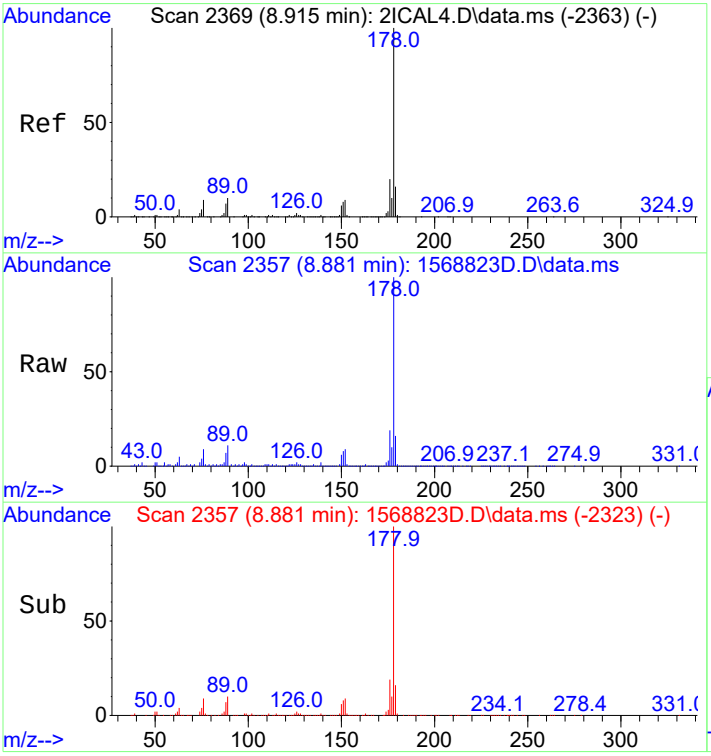



#70
Phenanthrene
Concen: 30.06 ug/mL
RT: 8.853 min Scan# 2347
Delta R.T. -0.000 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:178 Resp: 932362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.9 | 0.0 | 45.9 |
| 176 | 20.9 | 0.0 | 50.4 |

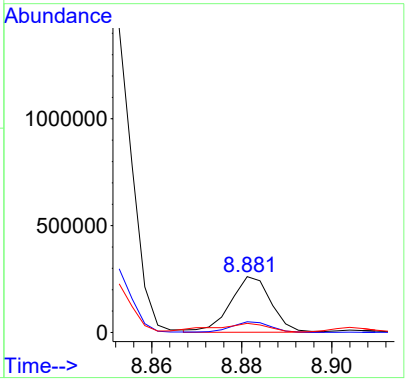


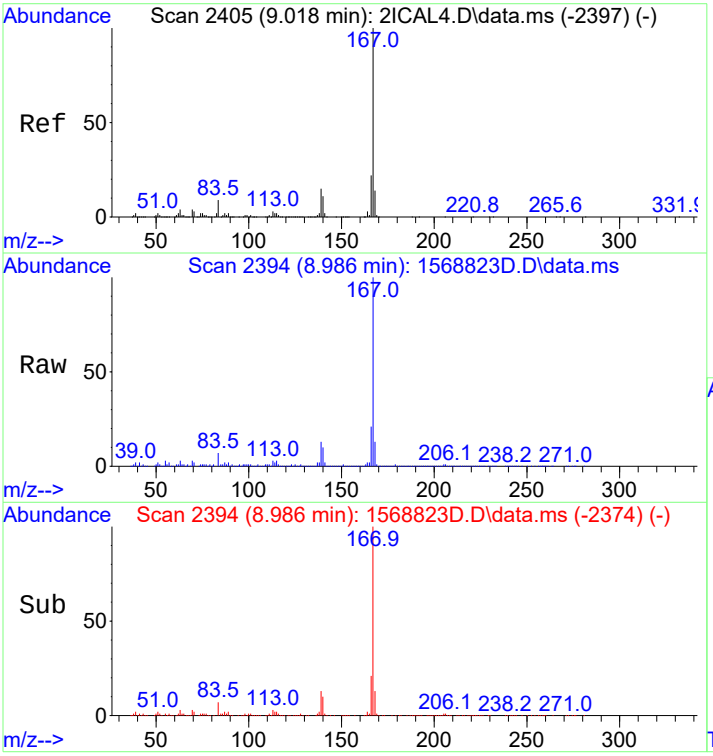




#71
Anthracene
Concen: 5.19 ug/mL
RT: 8.881 min Scan# 2357
Delta R.T. -0.003 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:178 Resp: 163648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 0.0 | 49.5 |
| 179 | 13.1 | 0.0 | 45.9 |

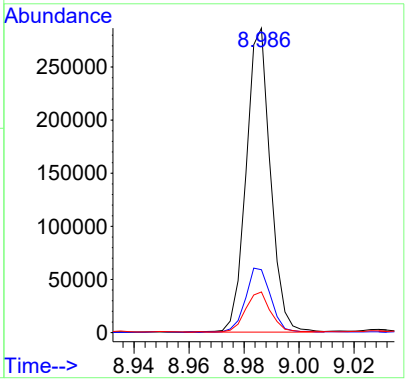


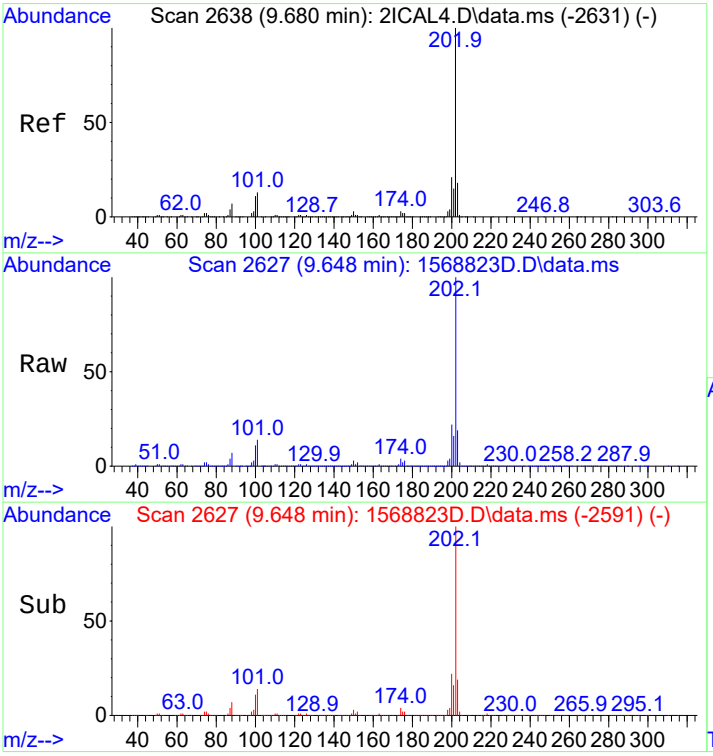



#72
Carbazole
Concen: 6.55 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:167 Resp: 176089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 20.6 | 0.0 | 52.1 |
| 139 | 13.2 | 0.0 | 44.7 |

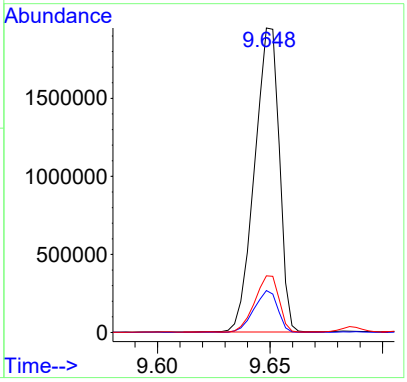


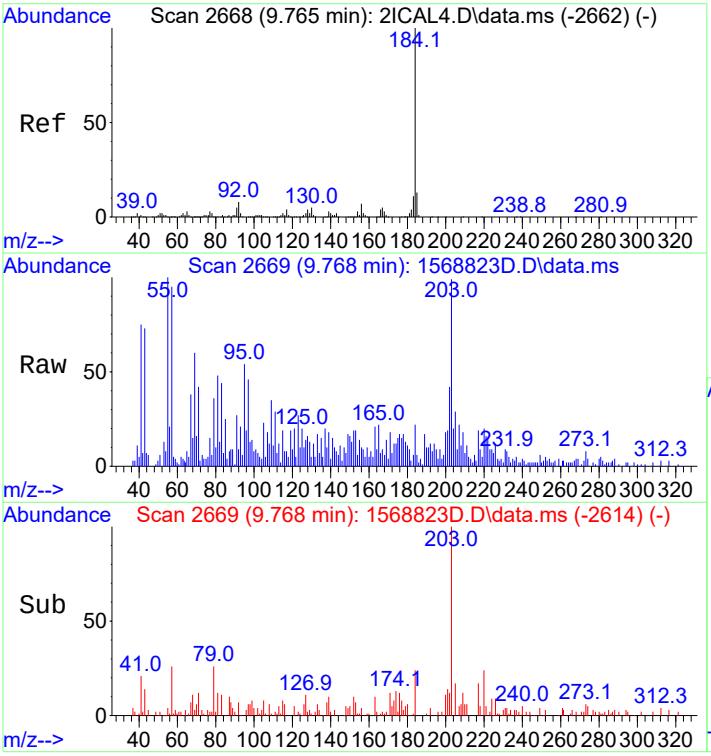




#74
Fluoranthene
Concen: 45.52 ug/mL
RT: 9.648 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:202 Resp: 1490949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.8 | 0.0 | 43.0 |
| 203 | 18.5 | 0.0 | 48.2 |

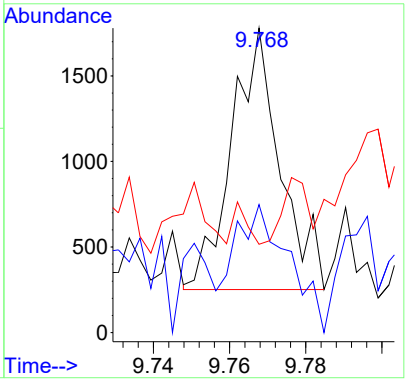


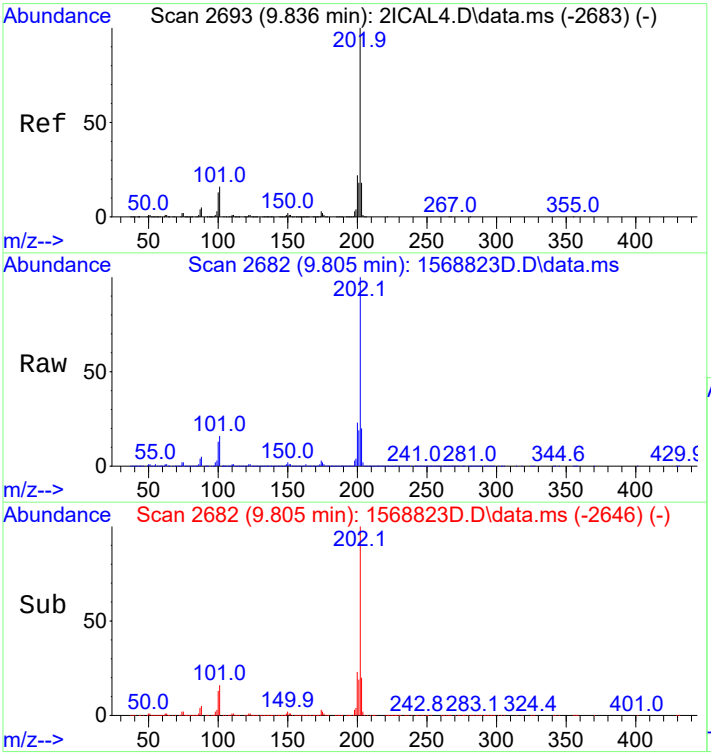



#76
Benzidine
Concen: Below Cal
RT: 9.768 min Scan# 2669
Delta R.T. 0.037 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:184 Resp: 1350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 49.0 | 0.0 | 38.2# |
| 185 | 0.0 | 0.0 | 43.3 |

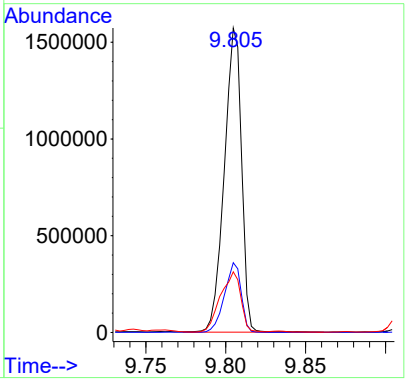


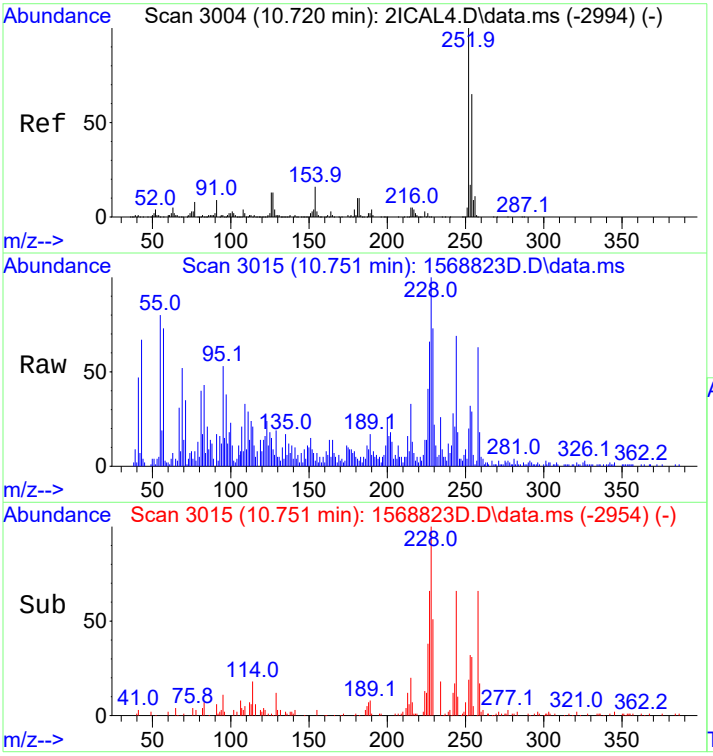




#77
Pyrene
Concen: 32.86 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:202 Resp: 1178984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.9 | 0.0 | 52.2 |
| 203 | 19.8 | 0.0 | 48.2 |

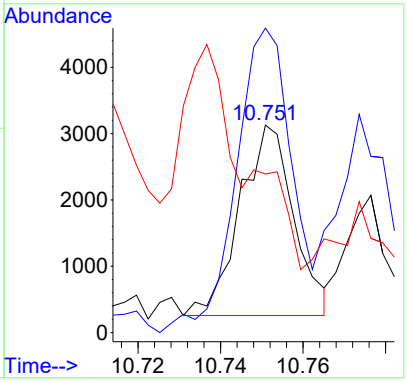


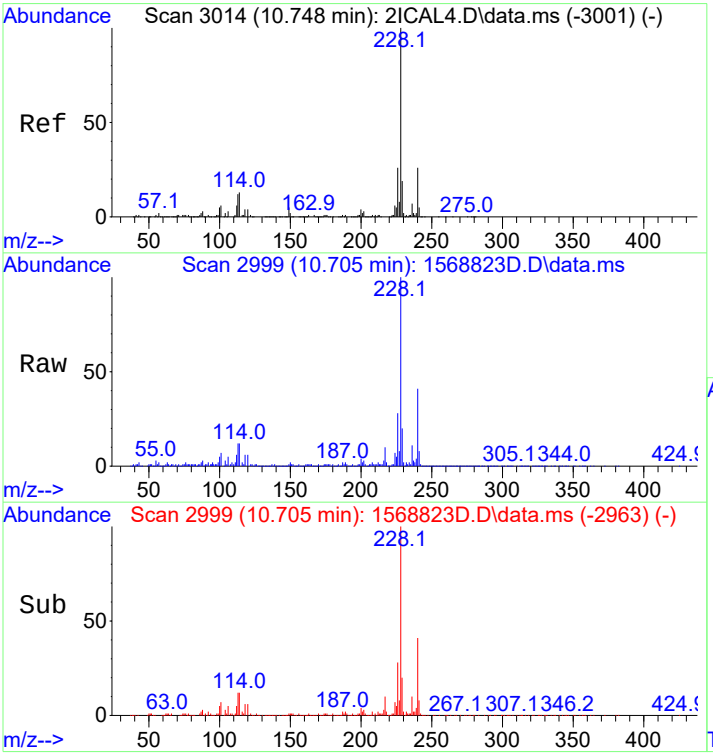



#81
33Diclbnzidin
Concen: 0.09 ug/mL
RT: 10.751 min Scan# 3015
Delta R.T. 0.074 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:252 Resp: 2597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 150.2 | 34.6 | 94.6# |
| 126 | 34.0 | 0.0 | 42.6 |

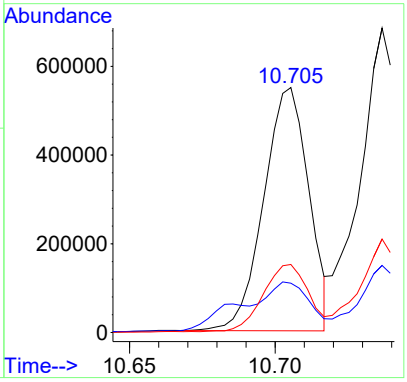


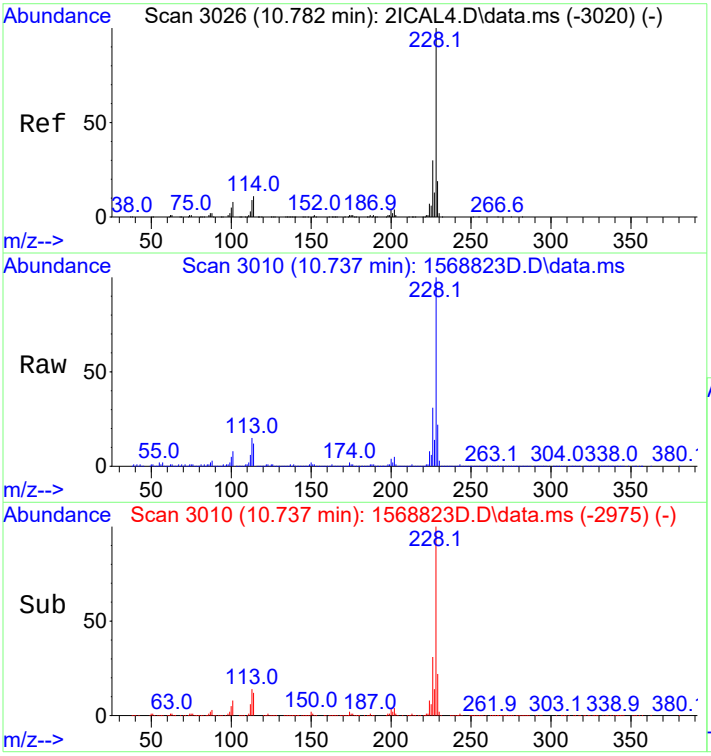




#82
B[a]anthracen
Concen: 17.33 ug/mL
RT: 10.705 min Scan# 2999
Delta R.T. 0.003 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:228 Resp: 589228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.4 | 0.0 | 49.4 |
| 226 | 27.7 | 0.0 | 56.5 |

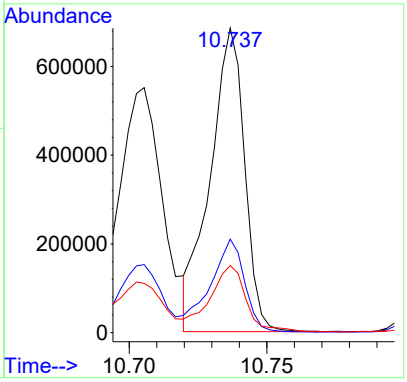


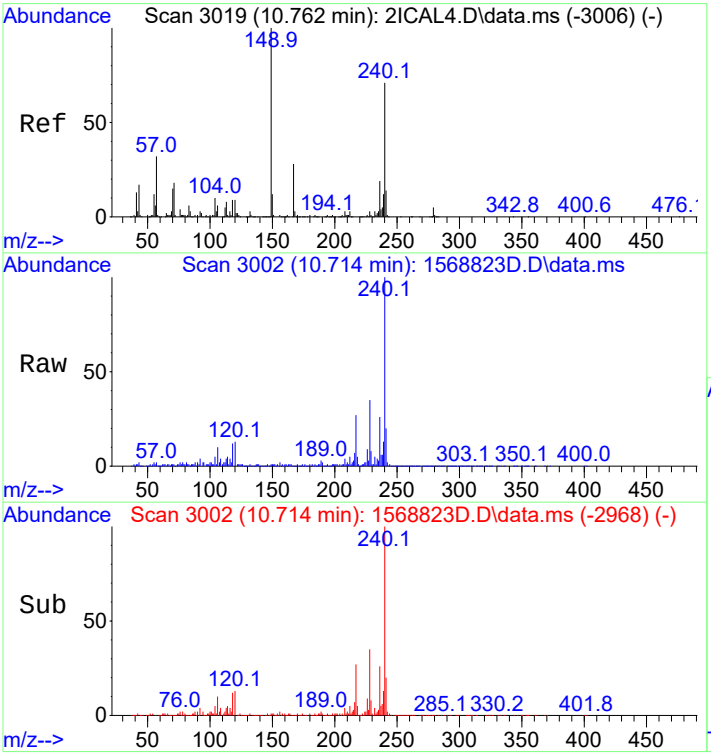



#83
Chrysene
Concen: 18.75 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. -0.000 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:228 Resp: 597844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 0.0 | 59.9 |
| 229 | 21.8 | 0.0 | 49.5 |

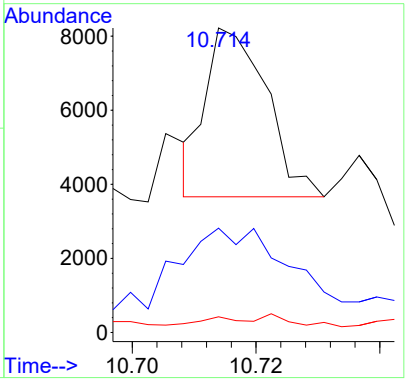


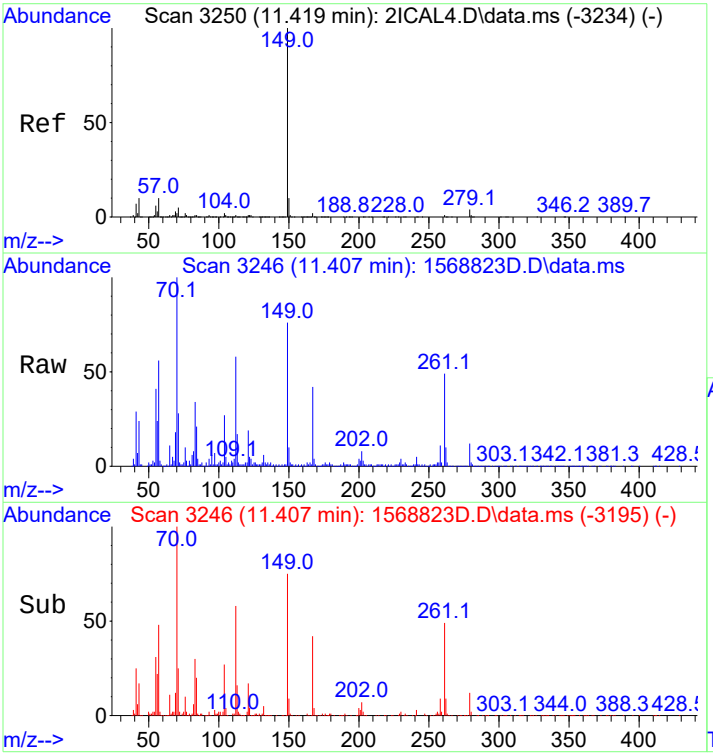




#84
bis2Ethlhxlph
Concen: 0.12 ug/mL
RT: 10.714 min Scan# 3002
Delta R.T. -0.003 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:149 Resp: 3113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 37.8 | 0.0 | 57.9 |
| 279 | 4.0 | 0.0 | 34.9 |

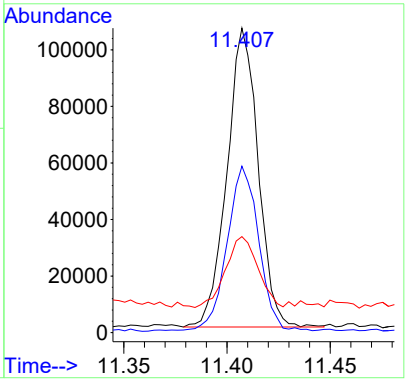


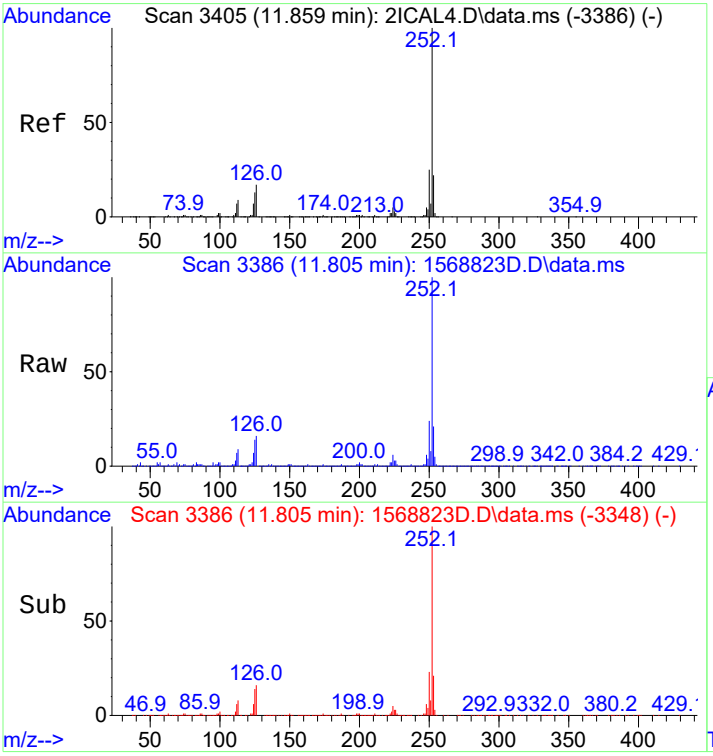



#85
Dinoctylphthl
Concen: 2.84 ug/mL
RT: 11.407 min Scan# 3246
Delta R.T. 0.045 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:149 Resp: 111401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 54.8 | 0.0 | 31.6# |
| 43 | 23.5 | 0.0 | 39.9 |

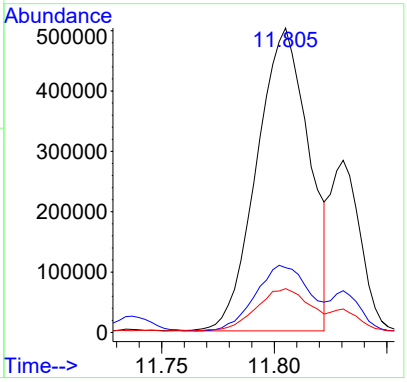


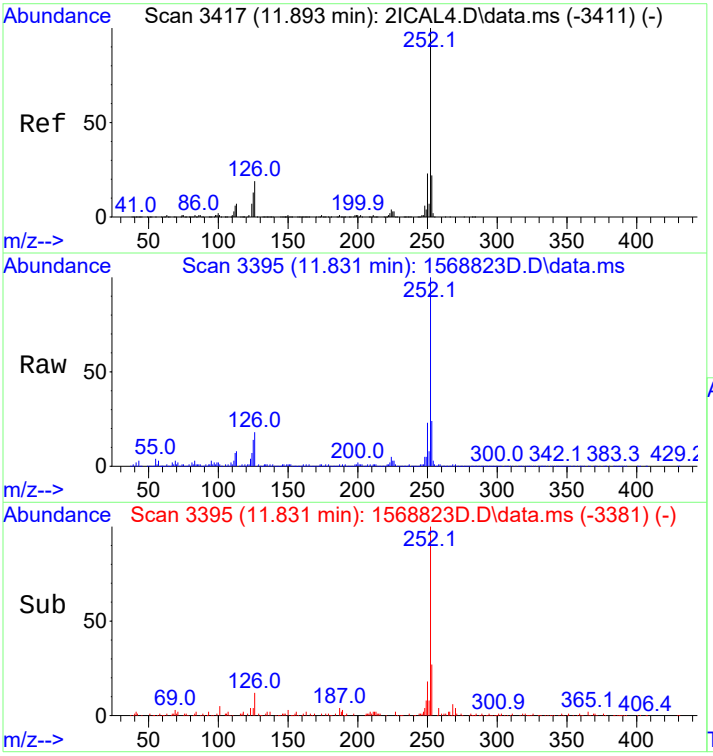




#87
B[b]fluoranth
Concen: 27.98 ug/mL
RT: 11.805 min Scan# 3386
Delta R.T. 0.008 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:252 Resp: 811958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.7 | 0.0 | 52.3 |
| 125 | 13.8 | 0.0 | 43.2 |

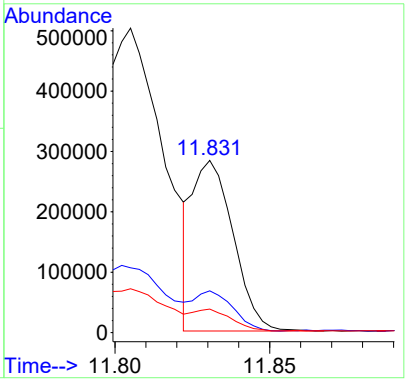


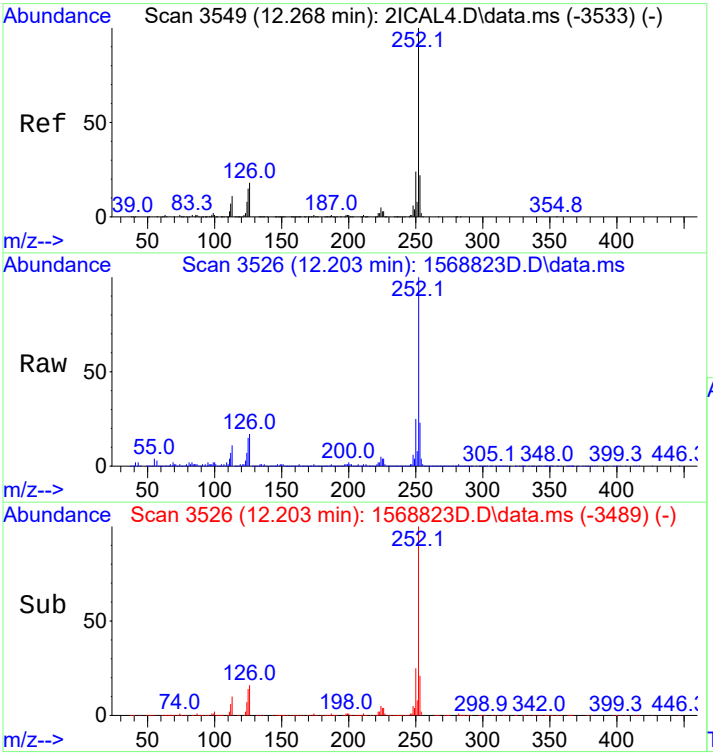



#88
B[k]fluoranth
Concen: 8.90 ug/mL
RT: 11.831 min Scan# 3395
Delta R.T. -0.000 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:252 Resp: 258825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.0 | 0.0 | 52.0 |
| 125 | 12.6 | 0.0 | 43.3 |

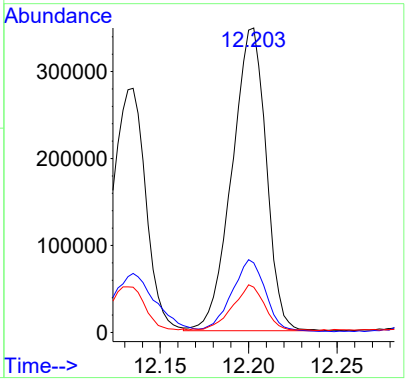


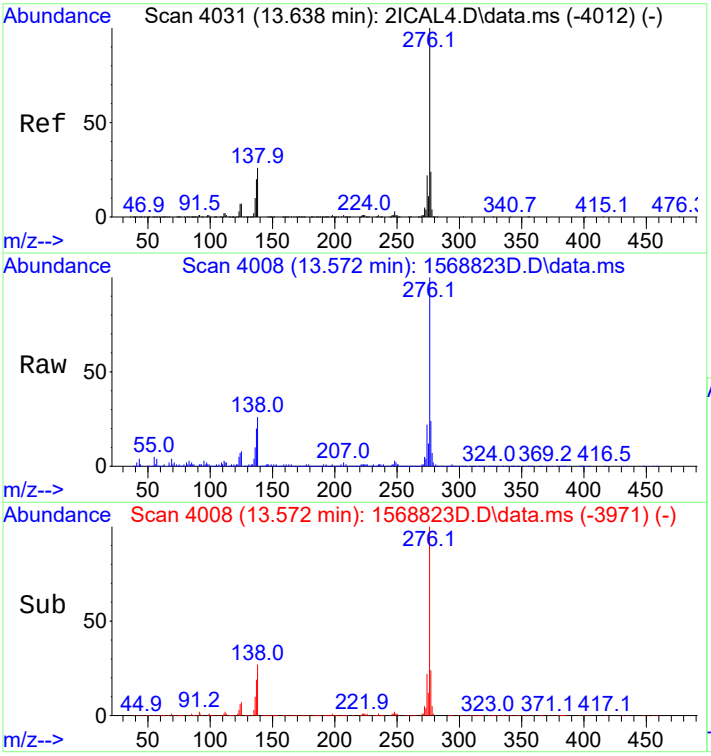




#89
Benz[a]pyrene
Concen: 17.54 ug/mL
RT: 12.203 min Scan# 3526
Delta R.T. 0.006 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:252 Resp: 468012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 0.0 | 52.3 |
| 125 | 14.0 | 0.0 | 45.1 |

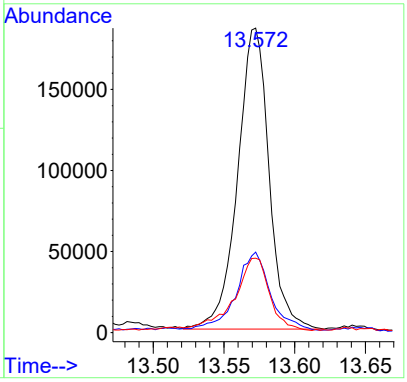


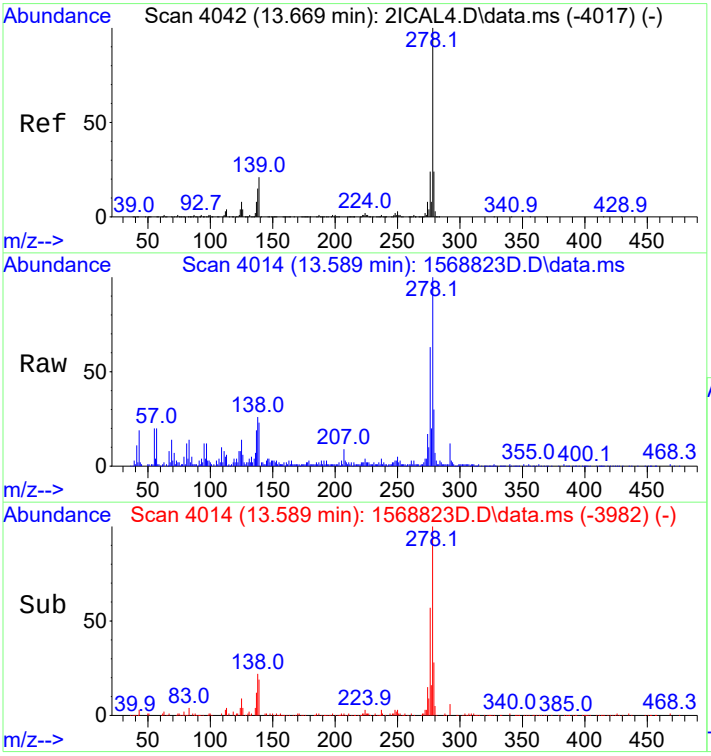



#90
Indeno-pyrene
Concen: 9.74 ug/mL
RT: 13.572 min Scan# 4008
Delta R.T. 0.006 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:276 Resp: 287571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.9 | 0.0 | 55.5 |
| 277 | 23.8 | 0.0 | 54.0 |

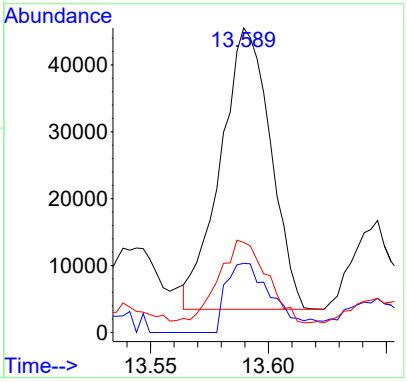


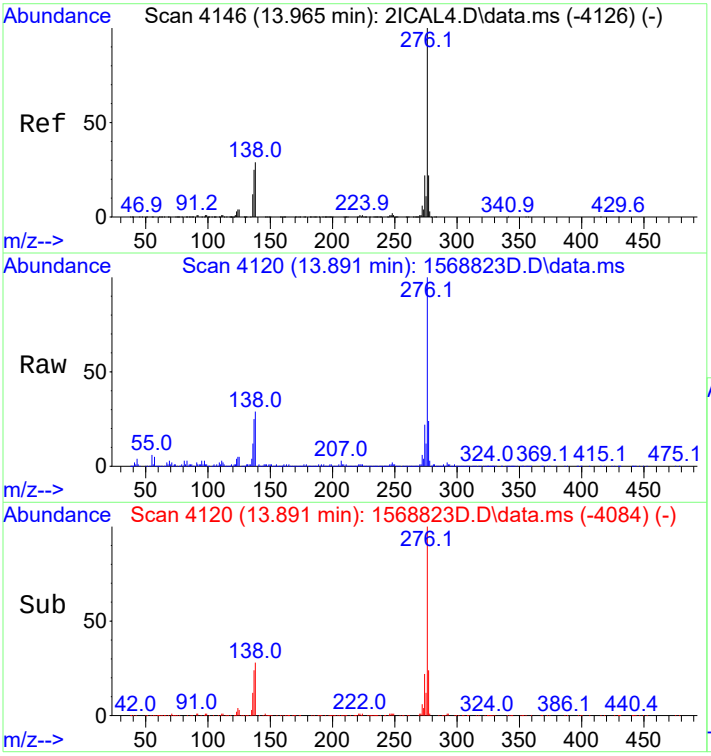




#91
Dib[ah]anthr
Concen: 2.57 ug/mL
RT: 13.589 min Scan# 4014
Delta R.T. -0.009 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:278 Resp: 62081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 24.6 | 0.0 | 50.9 |
| 279 | 28.6 | 0.0 | 54.4 |

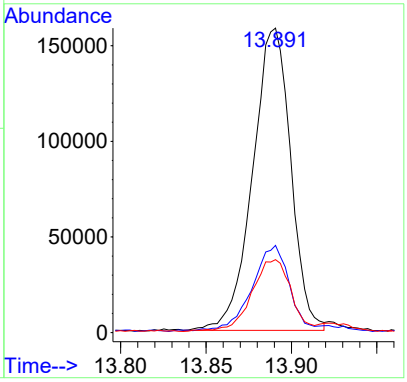





#92
B[ghi]perylen
Concen: 10.60 ug/mL
RT: 13.891 min Scan# 4120
Delta R.T. 0.003 min
Lab File: 1568823D.D
Acq: 11 Apr 2025 14:09

Tgt Ion:276 Resp: 245201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.0 | 0.0 | 59.0 |
| 277 | 23.7 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568844D.D Vial: 10
Acq On : 11 Apr 2025 14:32 Operator: JJY
Sample : 290730,1568844,5 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:34 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

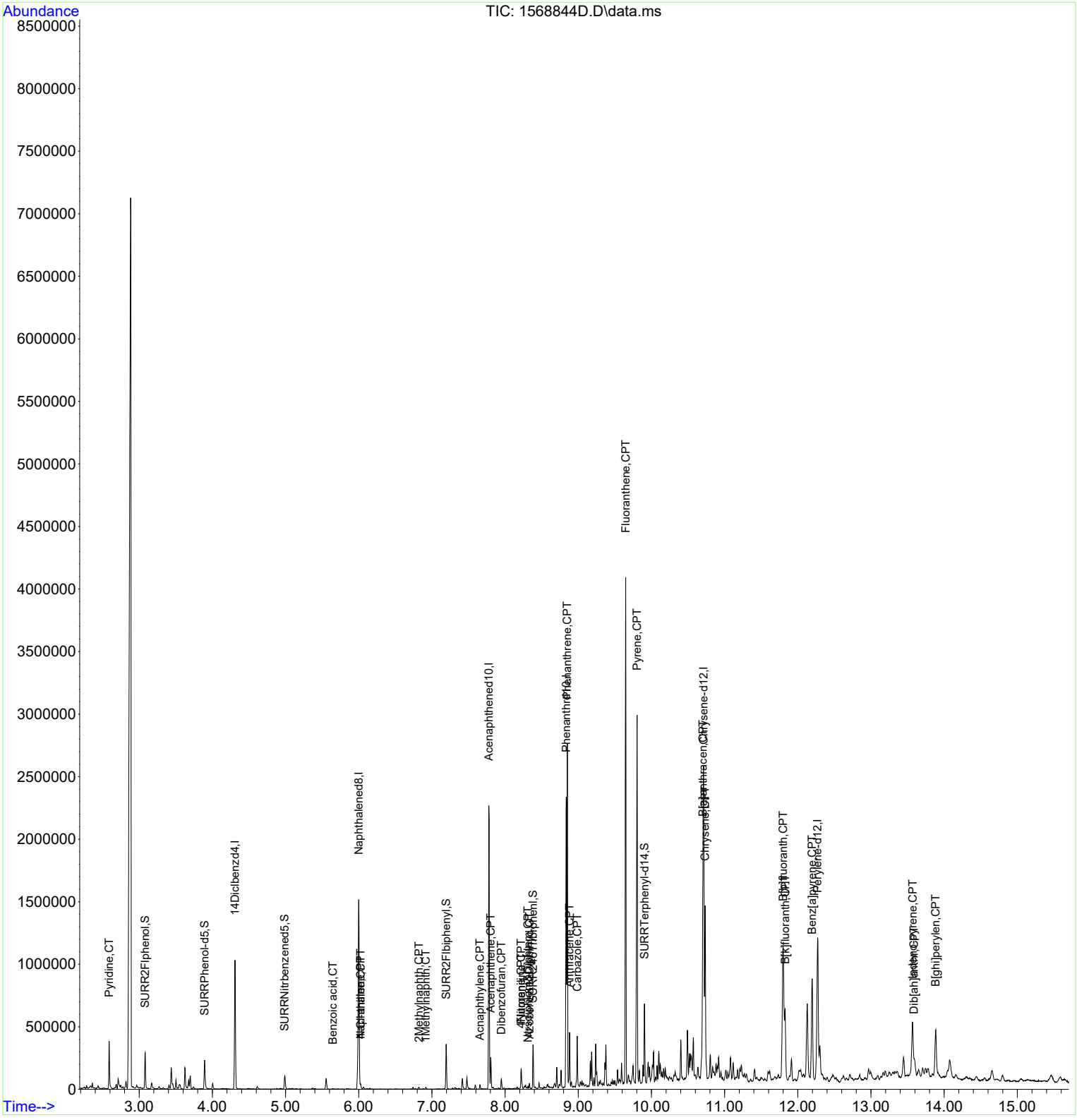
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 151338 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 719568 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.779 | 164 | 400096 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 596075 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 529146 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.271 | 264 | 547426 | 20.00 | ug/mL | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) SURR2Flphenol | 3.082 | 112 | 61941 | 17.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 17.00% | | | |
| 7) SURRPhenol-d5 | 3.894 | 99 | 78147 | 17.84 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 17.84% | | | |
| 22) SURRNitrbenzened5 | 4.988 | 82 | 35486 | 18.10 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 18.10% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 95105 | 19.92 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 19.92% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 23123 | 21.59 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 21.59% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 114142 | 22.12 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 22.12% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 3) Pyridine | 2.587 | 79 | 1328 | 0.1268 | ug/mL | 82 |
| 30) Benzoic acid | 5.648 | 122 | 835 | 3.0721 | ug/mL# | 33 |
| 31) Naphthalene | 6.026 | 128 | 12400 | 0.3737 | ug/mL | 97 |
| 32) 4-Cl-aniline | 6.026 | 127 | 886 | 0.0684 | ug/mL# | 36 |
| 37) 2Methylnaphth | 6.821 | 142 | 3587 | 0.1788 | ug/mL | 87 |
| 38) 1Methylnaphth | 6.918 | 142 | 3436 | 0.1656 | ug/mL | 83 |
| 47) Acnaphthylene | 7.657 | 152 | 10351 | 0.3197 | ug/mL | 98 |
| 50) Acenaphthene | 7.804 | 154 | 42592 | 2.2132 | ug/mL | 99 |
| 53) Dibenzofuran | 7.949 | 168 | 24976 | 0.8987 | ug/mL | 90 |
| 58) Fluorene | 8.219 | 166 | 33267 | 1.5659 | ug/mL | 96 |
| 61) 4Nitroaniline | 8.216 | 138 | 450 | 0.4109 | ug/mL# | 43 |
| 65) Ntrsdiphlam&Diphlam | 8.310 | 169 | 690 | 0.0449 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 6968 | 1.2715 | ug/mL# | 1 |
| 70) Phenanthrene | 8.850 | 178 | 639094 | 22.0070 | ug/mL | 99 |
| 71) Anthracene | 8.881 | 178 | 121435 | 4.1100 | ug/mL | 99 |
| 72) Carbazole | 8.986 | 167 | 111054 | 4.4140 | ug/mL | 96 |
| 74) Fluoranthene | 9.648 | 202 | 1129561 | 36.8350 | ug/mL | 100 |
| 77) Pyrene | 9.805 | 202 | 894516 | 26.6143 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.748 | 252 | 1589 | Below Cal | # | 36 |
| 82) B[a]anthracen | 10.703 | 228 | 470762 | 14.7770 | ug/mL | 99 |
| 83) Chrysene | 10.734 | 228 | 458134 | 15.3336 | ug/mL | 96 |
| 87) B[b]fluoranth | 11.799 | 252 | 599144 | 20.6615 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.828 | 252 | 213774 | 7.3579 | ug/mL | 96 |
| 89) Benz[a]pyrene | 12.197 | 252 | 374034 | 14.0256 | ug/mL | 97 |
| 90) Indeno-pyrene | 13.570 | 276 | 237238 | 8.0431 | ug/mL | 97 |
| 91) Dib[ah]anthr | 13.587 | 278 | 51536 | 2.1375 | ug/mL | 99 |
| 92) B[ghi]perylen | 13.882 | 276 | 195832 | 8.4742 | ug/mL | 96 |

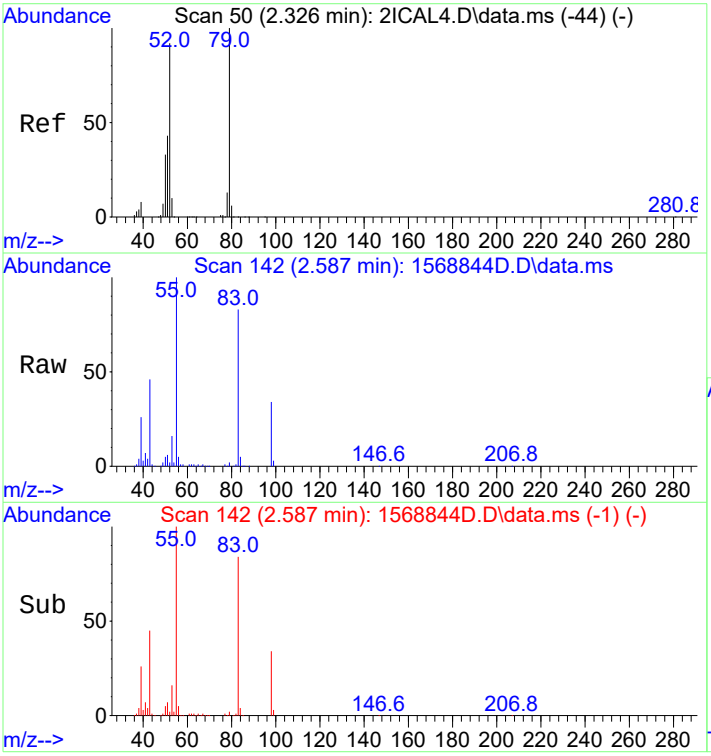
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568844D.D Vial: 10
Acq On : 11 Apr 2025 14:32 Operator: JJY
Sample : 290730,1568844,5 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:34 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

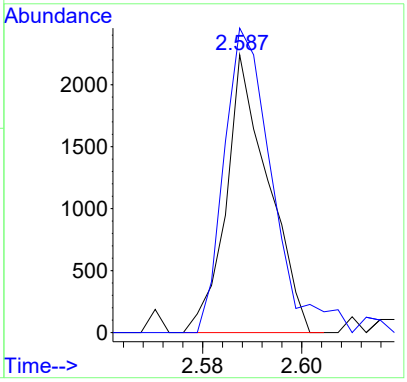


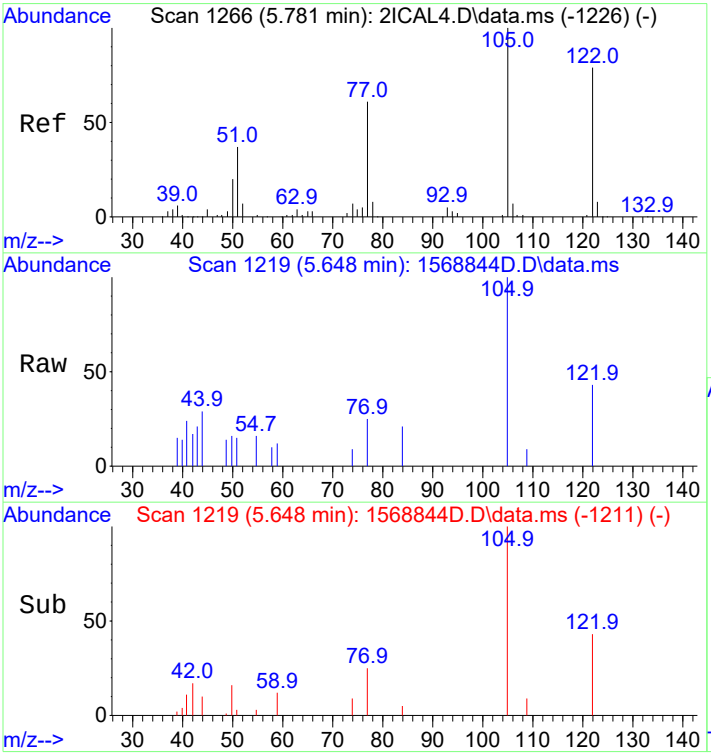



#3
Pyridine
Concen: 0.13 ug/mL
RT: 2.587 min Scan# 142
Delta R.T. 0.293 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion: 79 Resp: 1328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 109.6 | 62.5 | 122.5 |

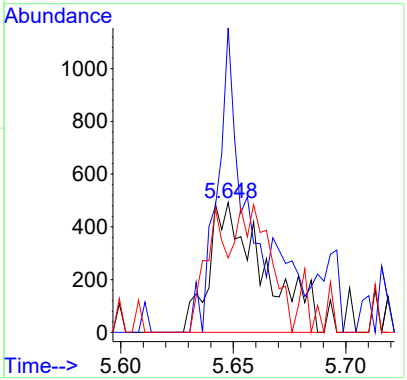


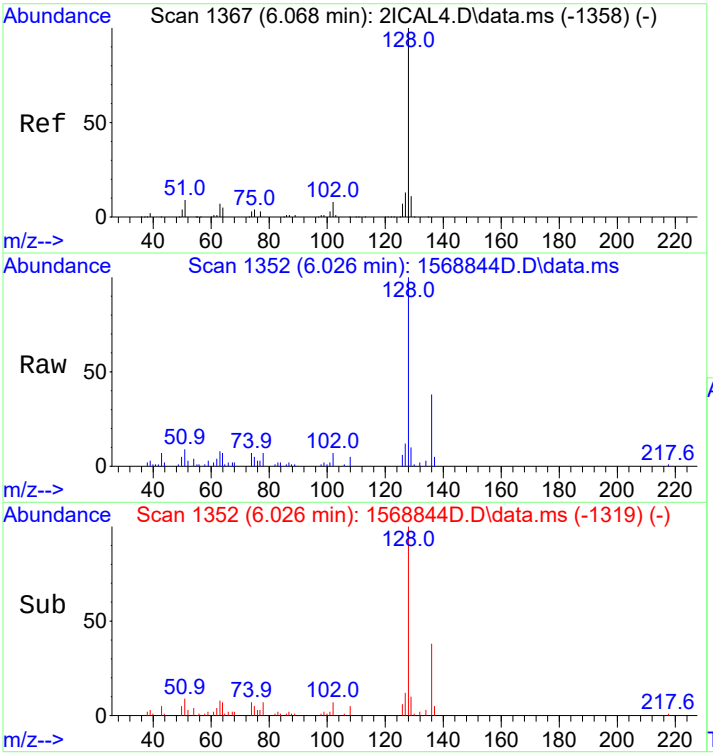




#30
Benzoic acid
Concen: 3.07 ug/mL
RT: 5.648 min Scan# 1219
Delta R.T. -0.108 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:122 Resp: 835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 234.6 | 96.0 | 156.0# |
| 77 | 57.5 | 46.6 | 106.6 |

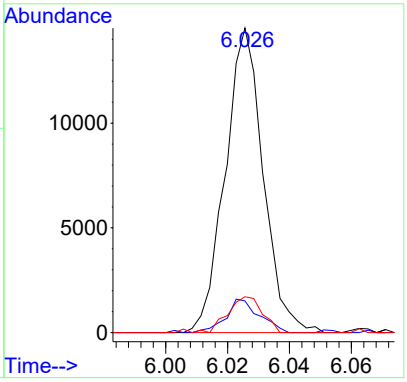


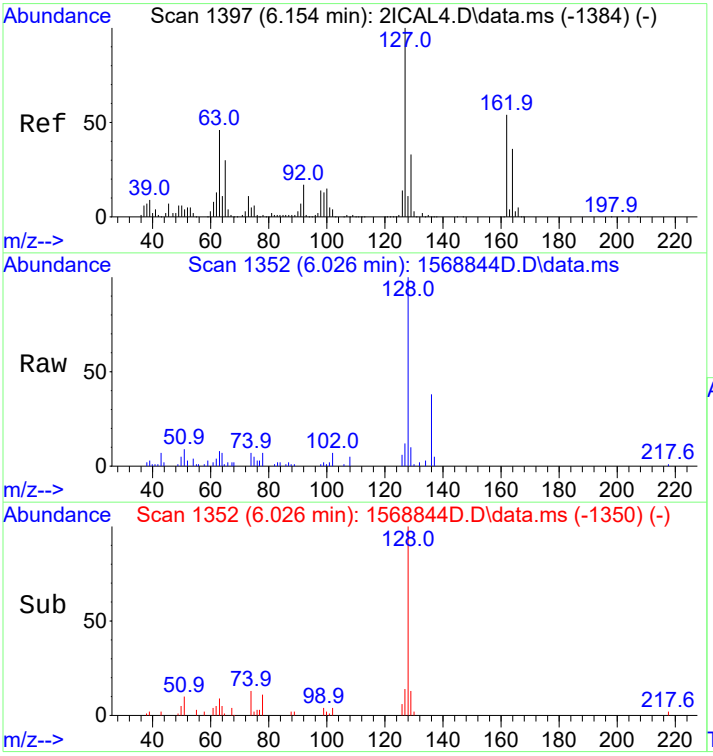



#31
Naphthalene
Concen: 0.37 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.006 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:128 Resp: 12400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.4 | 0.0 | 41.0 |
| 127 | 11.8 | 0.0 | 43.3 |

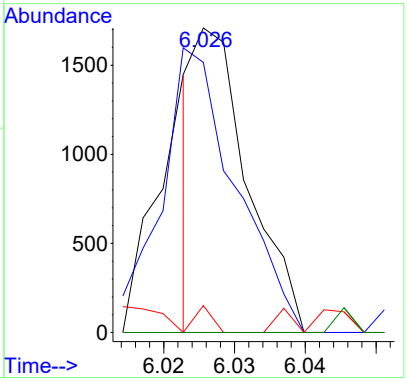


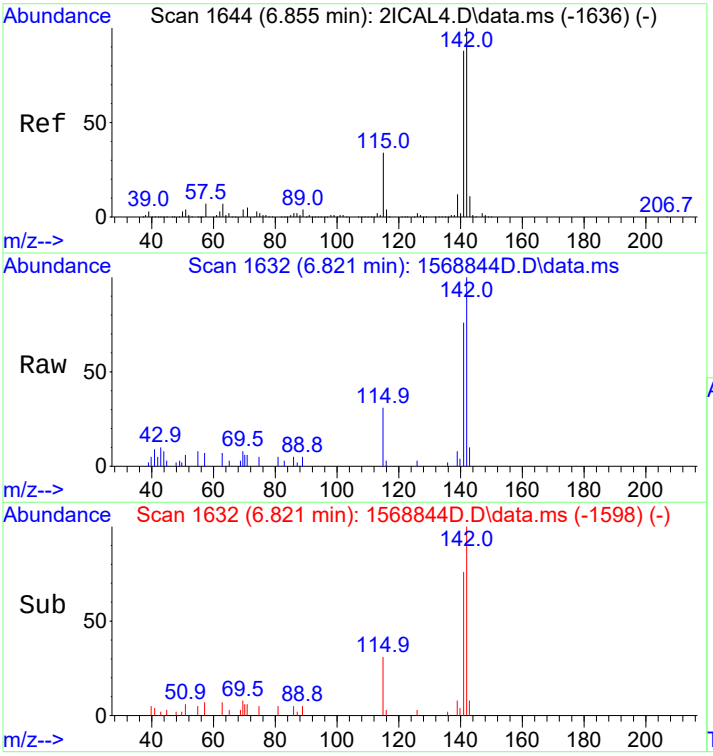




#32
4-Cl-aniline
Concen: 0.07 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.094 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:127 Resp: 886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 88.7 | 3.1 | 63.1# |
| 65 | 8.8 | 0.2 | 60.2 |
| 92 | 0.0 | 0.0 | 46.7 |

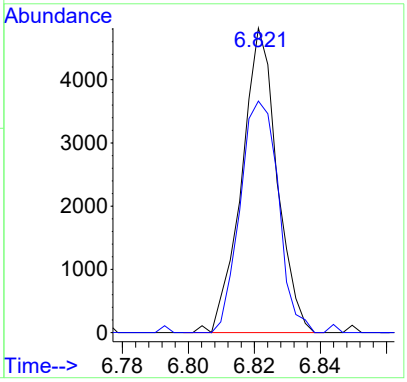


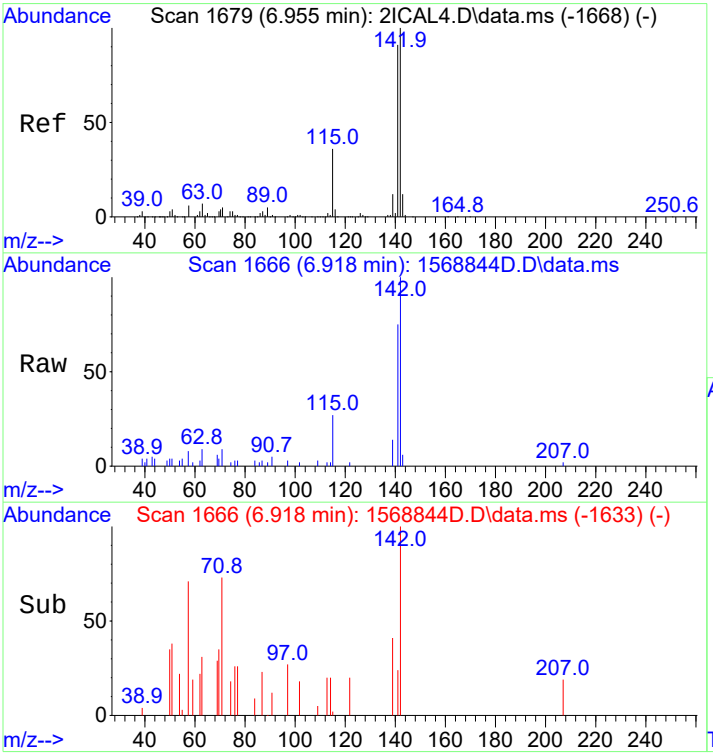



#37
2Methylnaphth
Concen: 0.18 ug/mL
RT: 6.821 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:142 Resp: 3587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 76.0 | 58.0 | 118.0 |

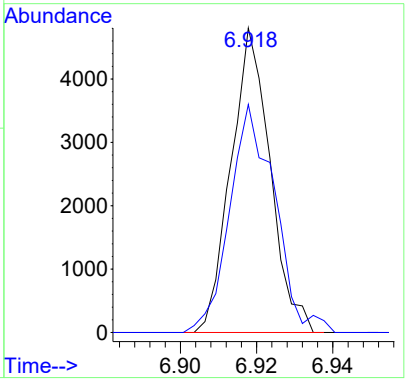


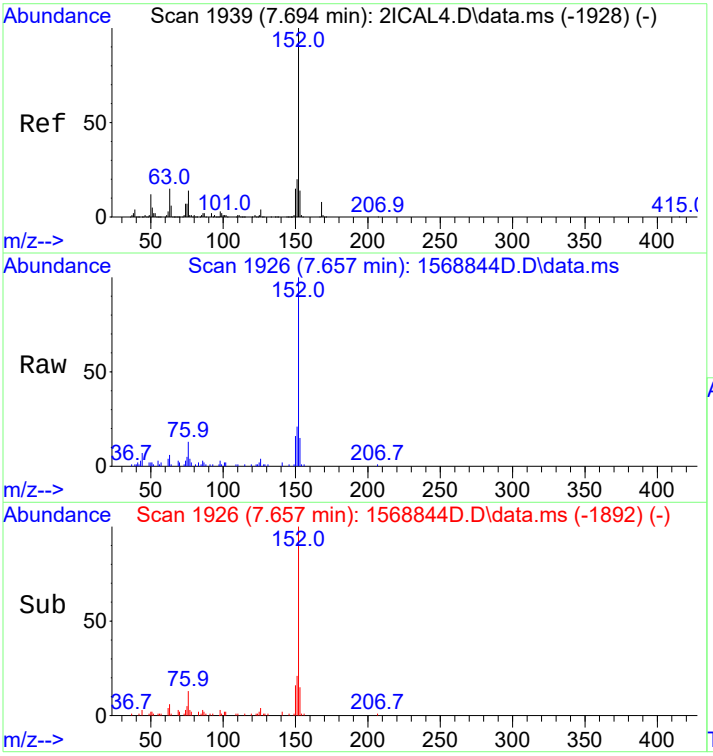




#38
1Methylnaphth
Concen: 0.17 ug/mL
RT: 6.918 min Scan# 1666
Delta R.T. -0.006 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:142 Resp: 3436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 74.9 | 60.7 | 120.7 |

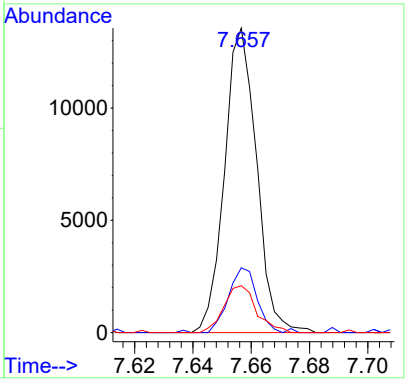


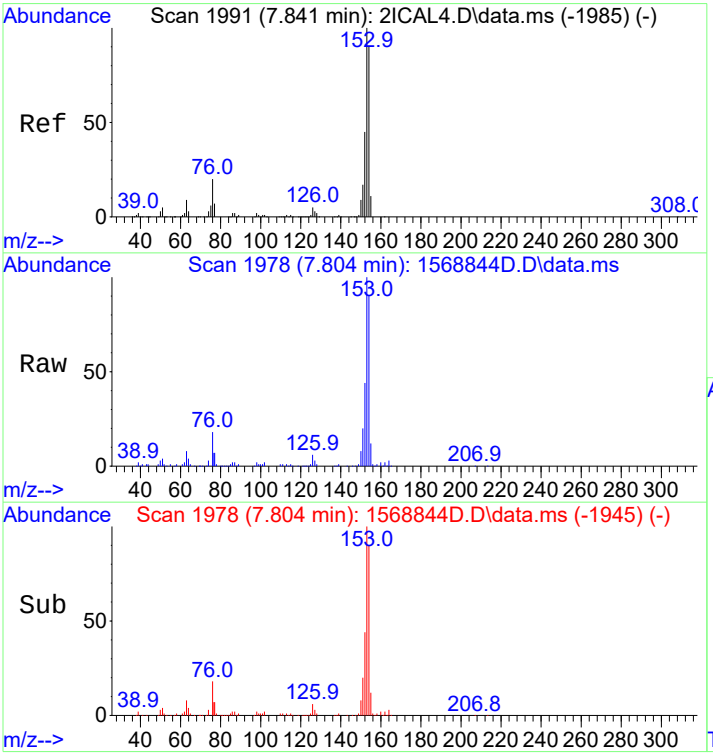



#47
Acnaphthylene
Concen: 0.32 ug/mL
RT: 7.657 min Scan# 1926
Delta R.T. -0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:152 Resp: 10351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.3 | 0.0 | 50.3 |
| 153 | 15.4 | 0.0 | 44.4 |

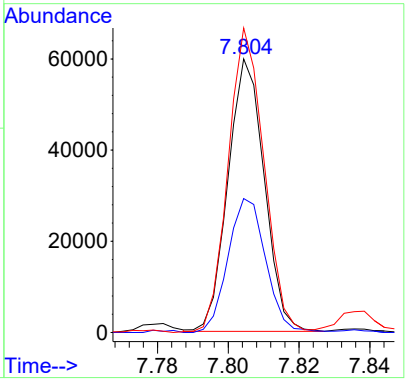


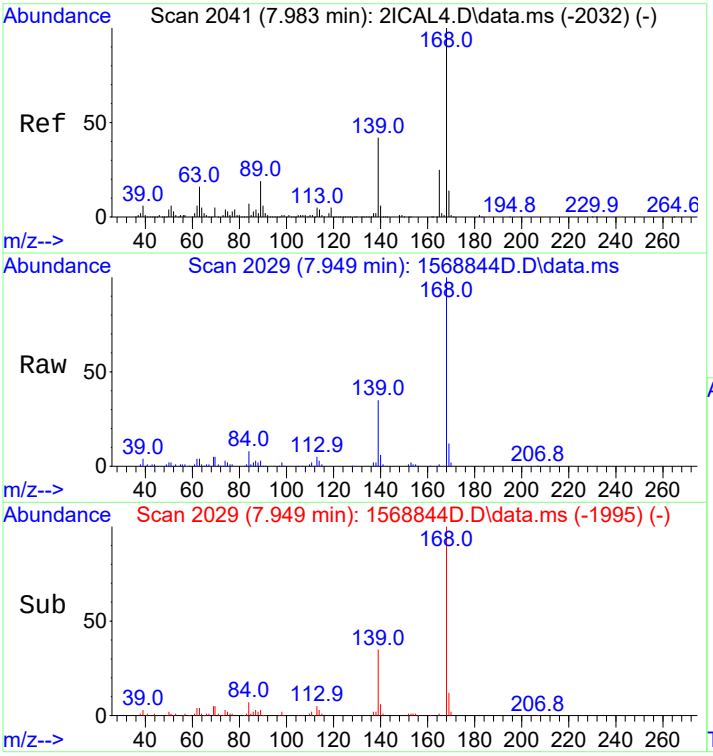




#50
Acenaphthene
Concen: 2.21 ug/mL
RT: 7.804 min Scan# 1978
Delta R.T. -0.006 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:154 Resp: 42592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 49.2 | 20.0 | 80.0 |
| 153 | 111.5 | 80.7 | 140.7 |

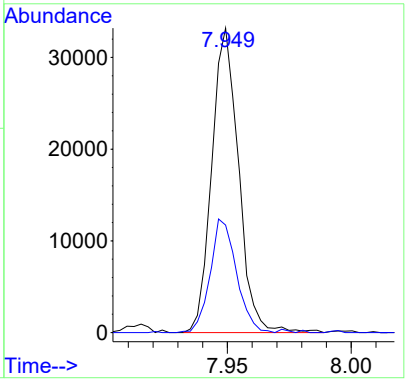


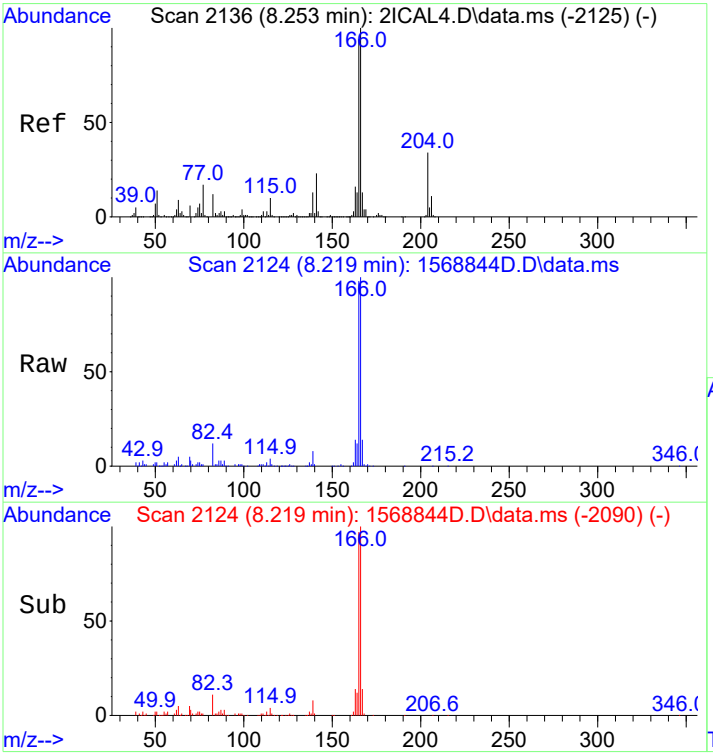



#53
Dibenzofuran
Concen: 0.90 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:168 Resp: 24976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 35.3 | 11.9 | 71.9 |

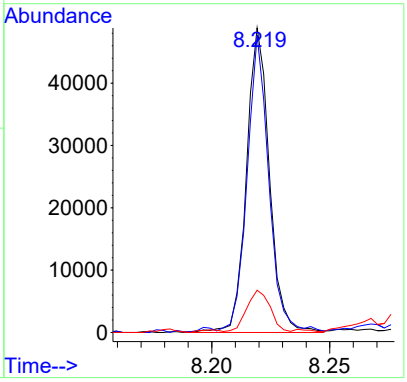


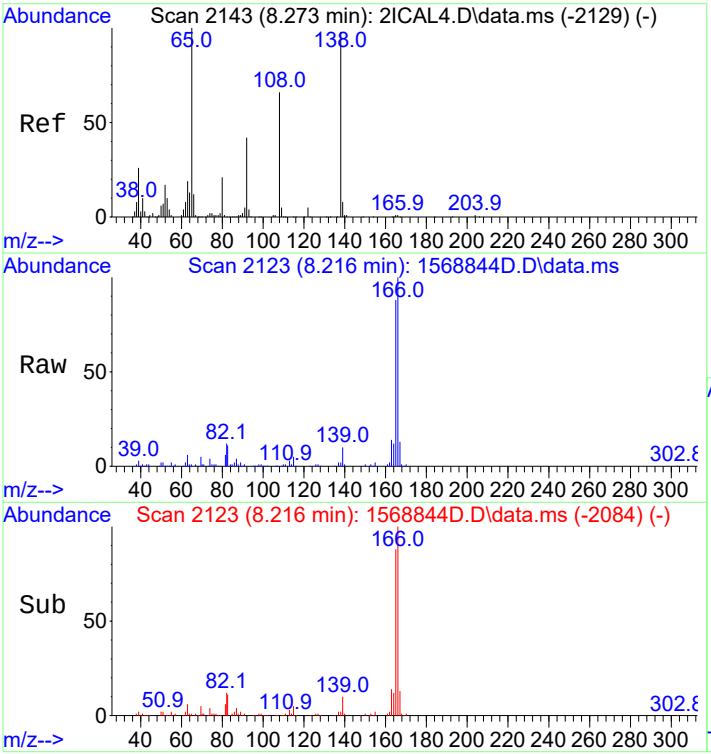




#58
Fluorene
Concen: 1.57 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:166 Resp: 33267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.6 | 63.6 | 123.6 |
| 167 | 13.6 | 0.0 | 43.3 |

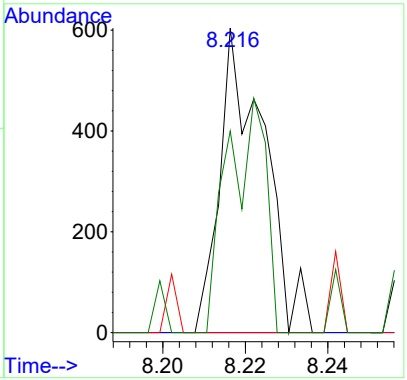


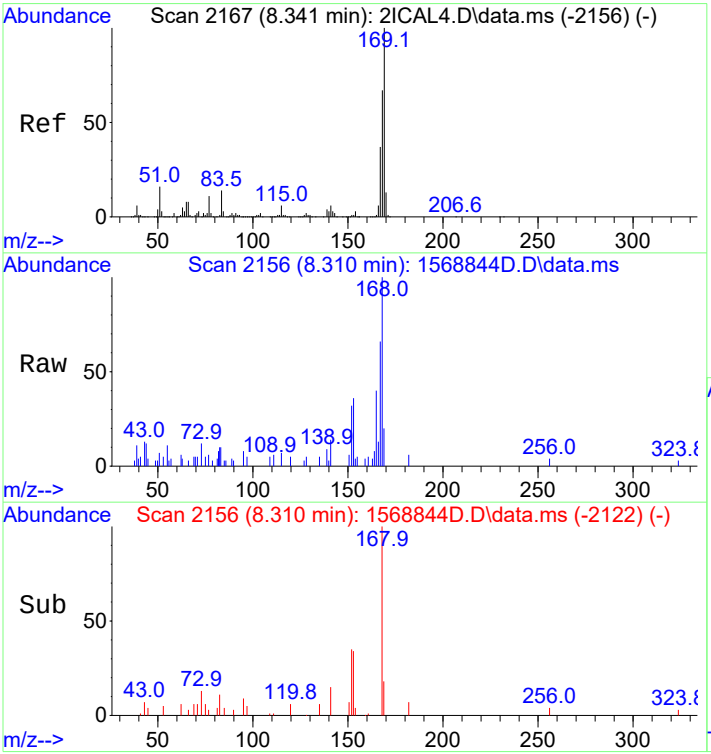



#61
4Nitroaniline
Concen: 0.41 ug/mL
RT: 8.216 min Scan# 2123
Delta R.T. -0.028 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:138 Resp: 450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 66.2 | 71.1 | 131.1# |

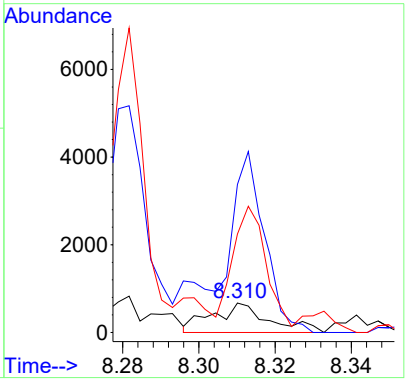


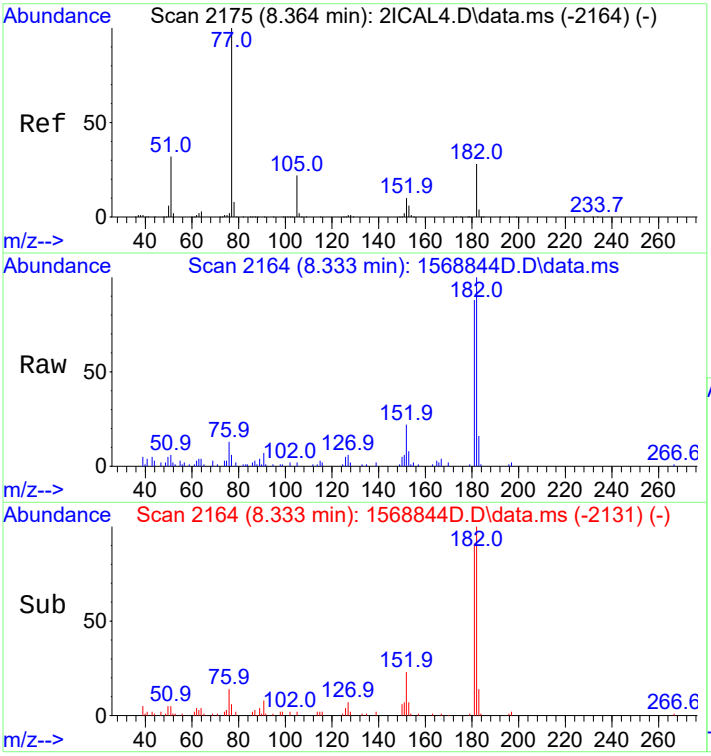




#65
Ntrsdiphlam&Diphlam
Concen: 0.04 ug/mL
RT: 8.310 min Scan# 2156
Delta R.T. -0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:169 Resp: 690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 634.4 | 37.2 | 97.2# |
| 167 | 330.5 | 6.9 | 66.9# |

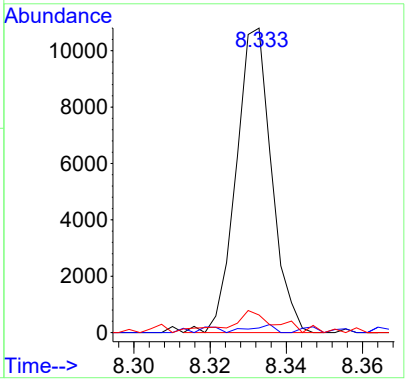


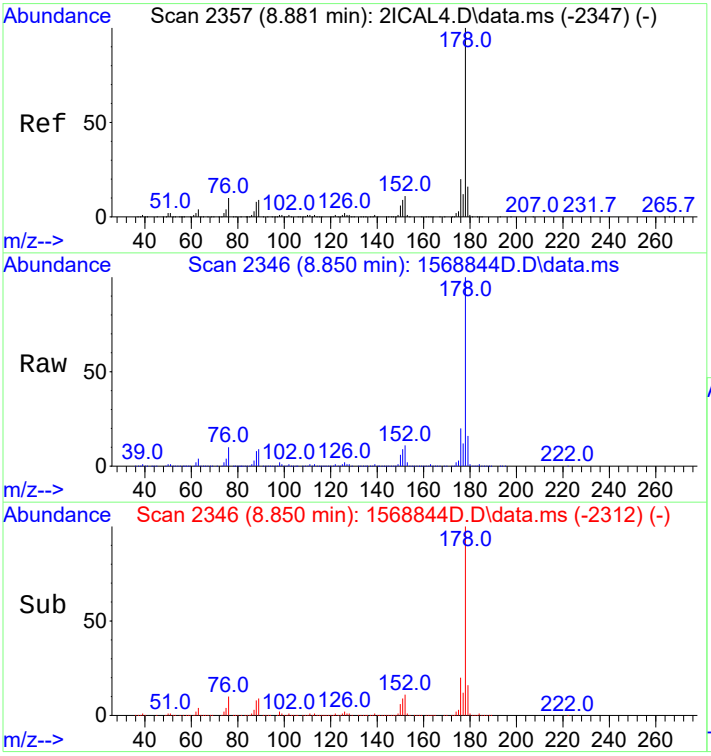



#66
Azobenz&12Diphlhyd
Concen: 1.27 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:182 Resp: 6968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 1.5 | 49.9 | 109.9# |
| 77 | 5.8 | 339.9 | 399.9# |

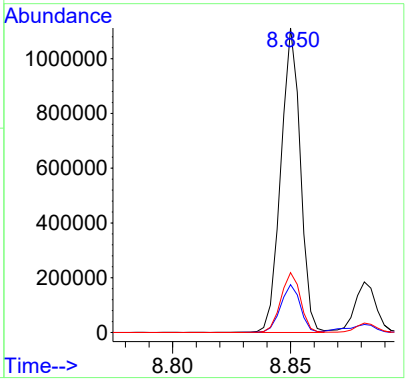


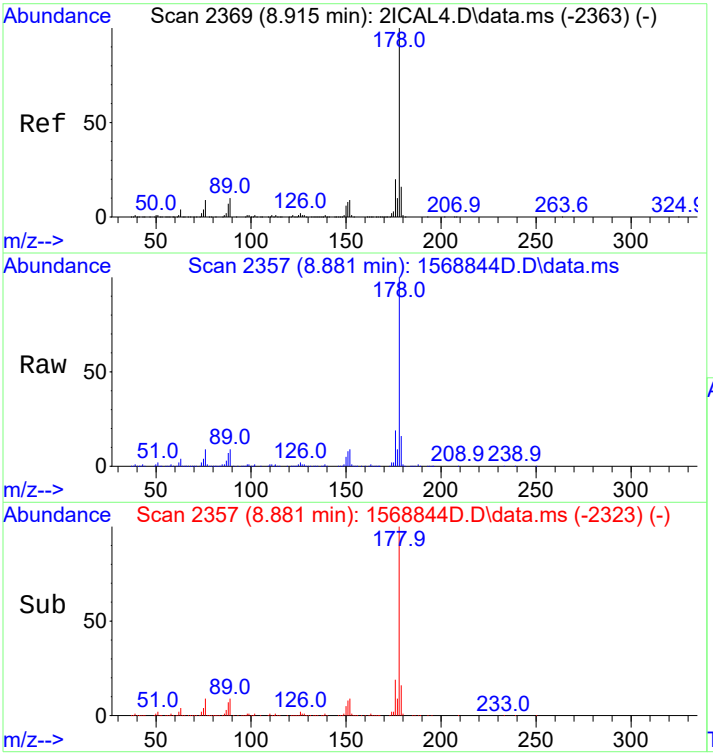




#70
Phenanthrene
Concen: 22.01 ug/mL
RT: 8.850 min Scan# 2346
Delta R.T. -0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:178 Resp: 639094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.7 | 0.0 | 45.9 |
| 176 | 19.7 | 0.0 | 50.4 |

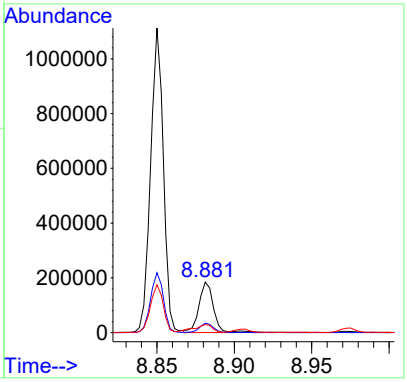


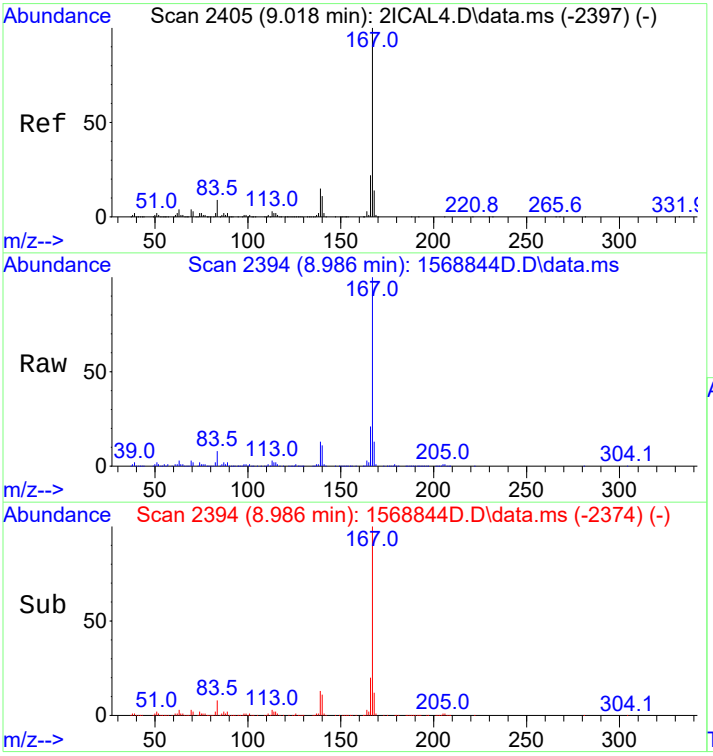



#71
Anthracene
Concen: 4.11 ug/mL
RT: 8.881 min Scan# 2357
Delta R.T. -0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:178 Resp: 121435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 0.0 | 49.5 |
| 179 | 15.8 | 0.0 | 45.9 |

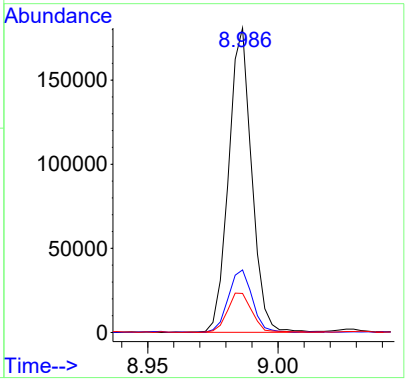


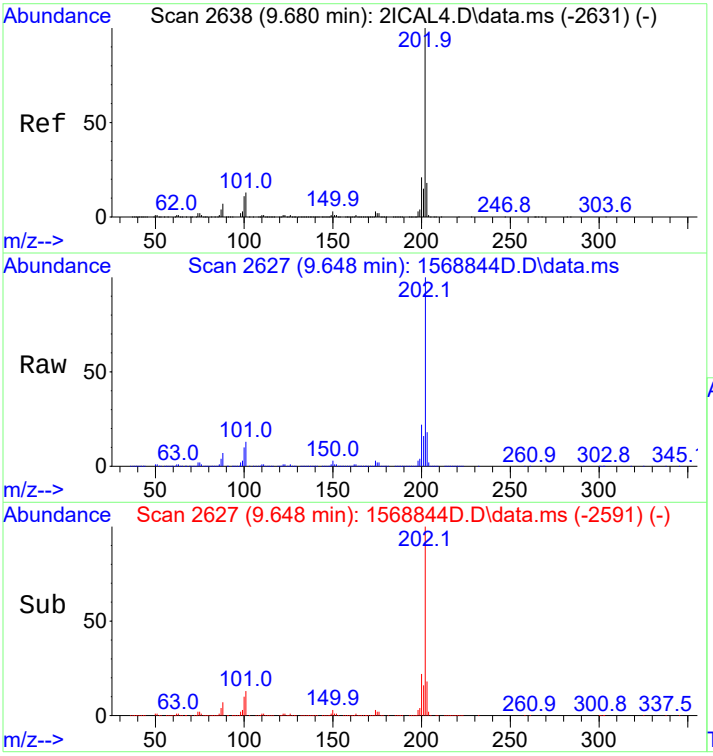




#72
Carbazole
Concen: 4.41 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:167 Resp: 111054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 20.4 | 0.0 | 52.1 |
| 139 | 12.8 | 0.0 | 44.7 |

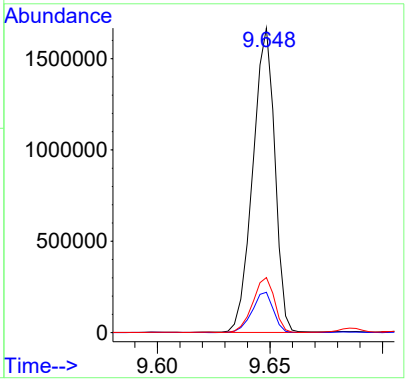


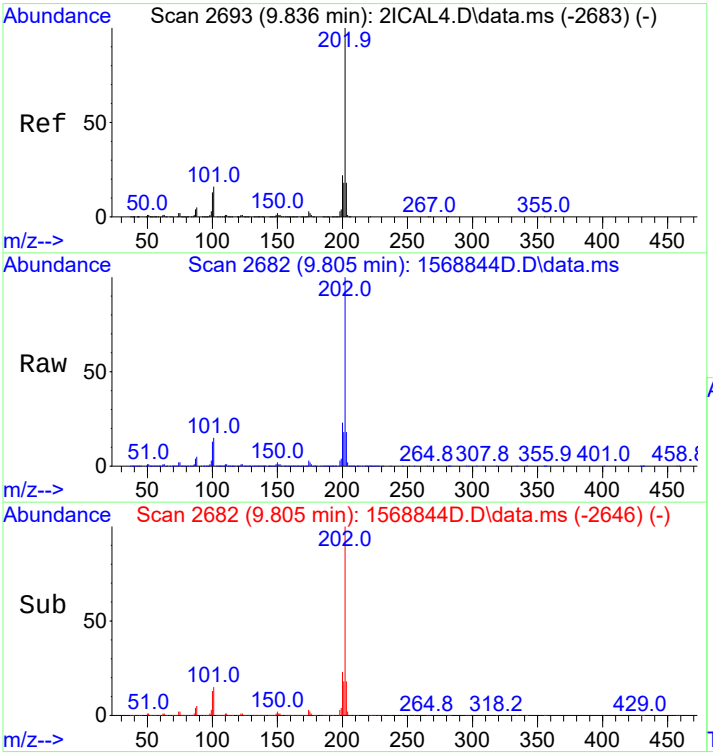



#74
Fluoranthene
Concen: 36.84 ug/mL
RT: 9.648 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:202 Resp: 1129561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.2 | 0.0 | 43.0 |
| 203 | 18.0 | 0.0 | 48.2 |

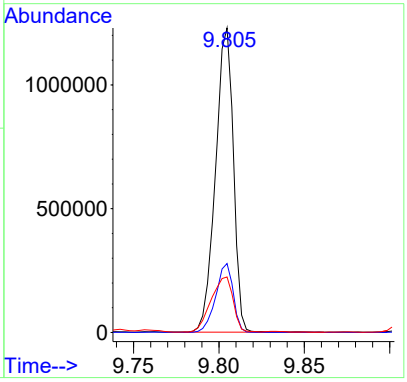


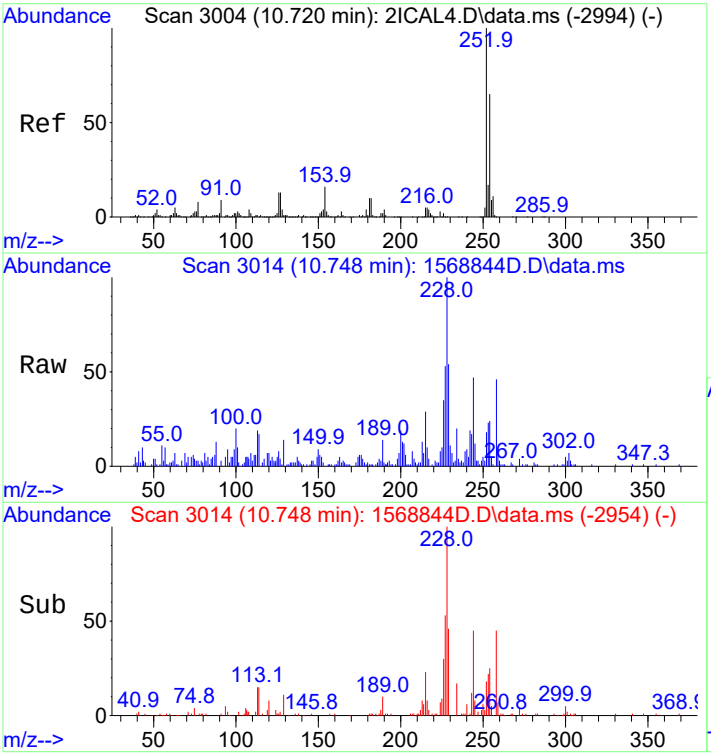




#77
Pyrene
Concen: 26.61 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:202 Resp: 894516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.6 | 0.0 | 52.2 |
| 203 | 18.2 | 0.0 | 48.2 |

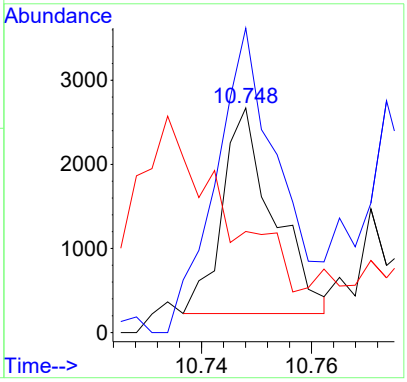


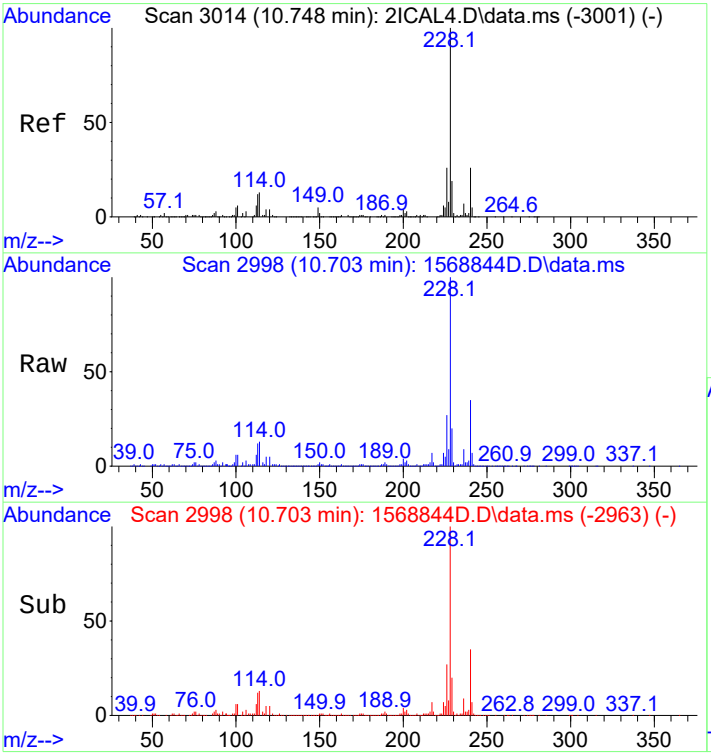



#81
33Diclbnzidin
Concen: Below Cal
RT: 10.748 min Scan# 3014
Delta R.T. 0.071 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:252 Resp: 1589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 122.5 | 34.6 | 94.6# |
| 126 | 18.3 | 0.0 | 42.6 |

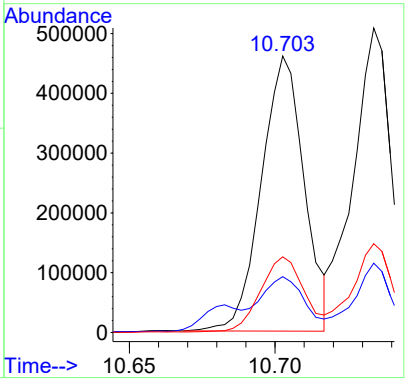


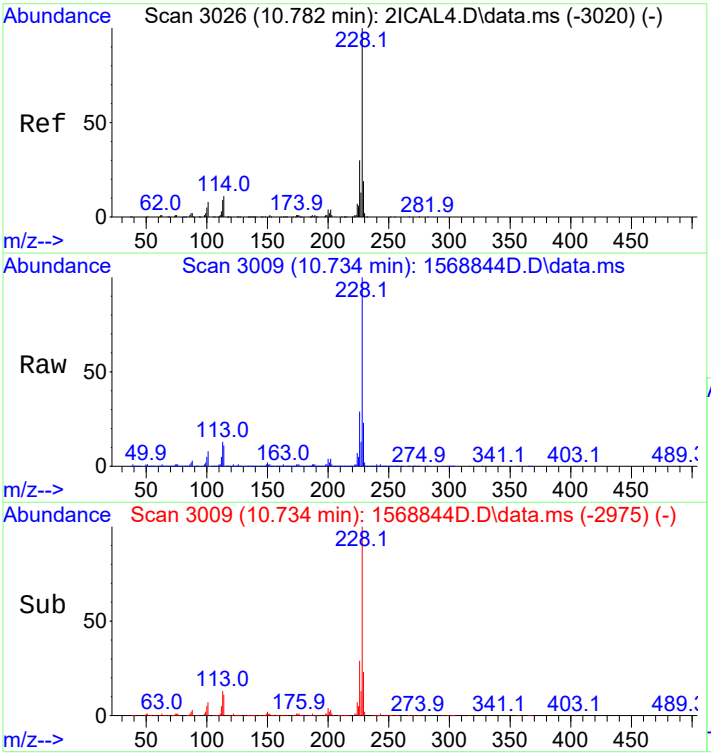




#82
B[a]anthracen
Concen: 14.78 ug/mL
RT: 10.703 min Scan# 2998
Delta R.T. -0.000 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:228 Resp: 470762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.2 | 0.0 | 49.4 |
| 226 | 27.4 | 0.0 | 56.5 |

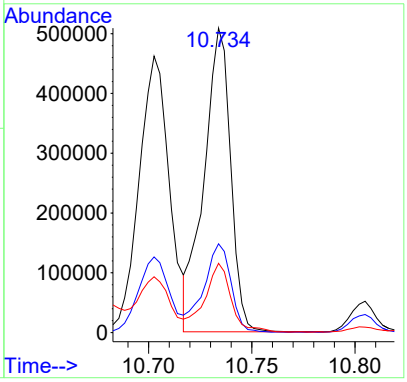


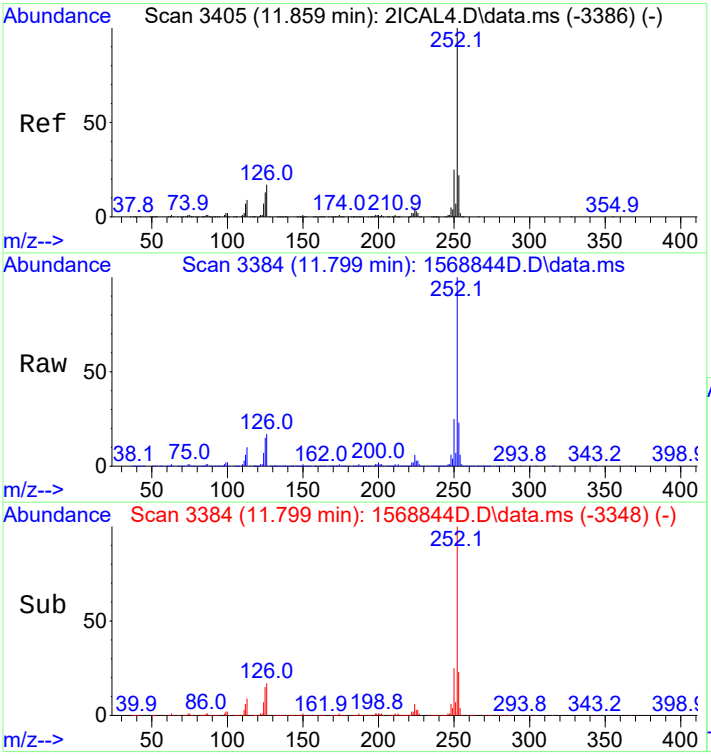



#83
Chrysene
Concen: 15.33 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:228 Resp: 458134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.1 | 0.0 | 59.9 |
| 229 | 22.6 | 0.0 | 49.5 |

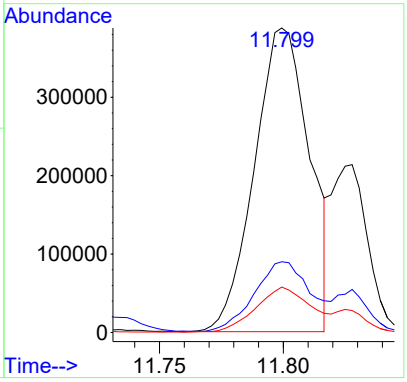


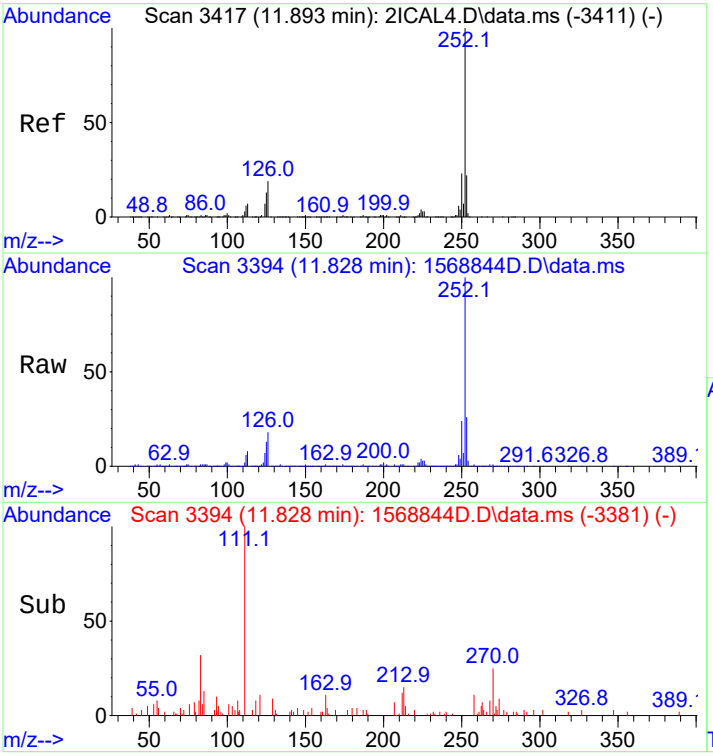




#87
B[b]fluoranth
Concen: 20.66 ug/mL
RT: 11.799 min Scan# 3384
Delta R.T. 0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:252 Resp: 599144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 0.0 | 52.3 |
| 125 | 14.8 | 0.0 | 43.2 |

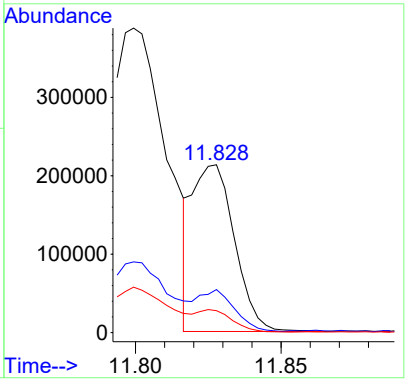


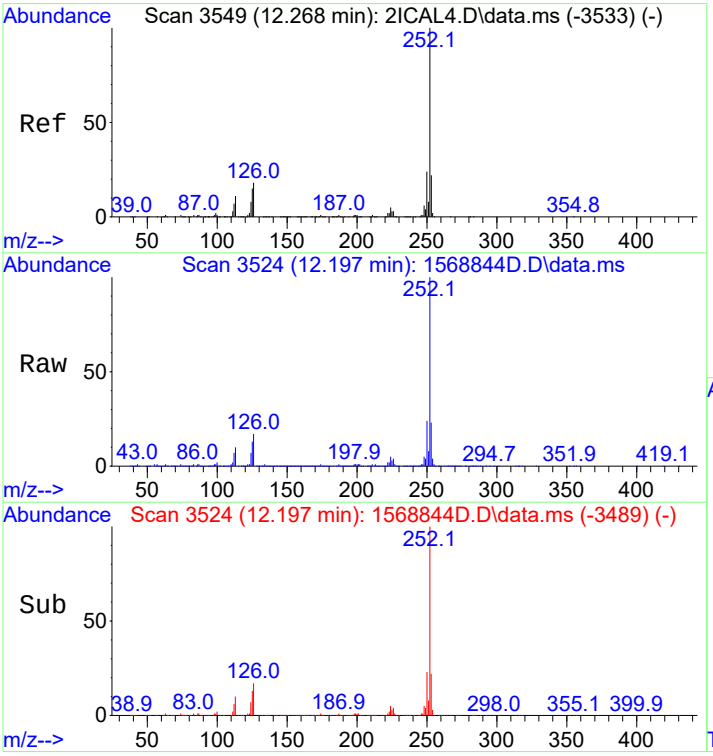



#88
B[k]fluoranth
Concen: 7.36 ug/mL
RT: 11.828 min Scan# 3394
Delta R.T. -0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:252 Resp: 213774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.7 | 0.0 | 52.0 |
| 125 | 12.8 | 0.0 | 43.3 |

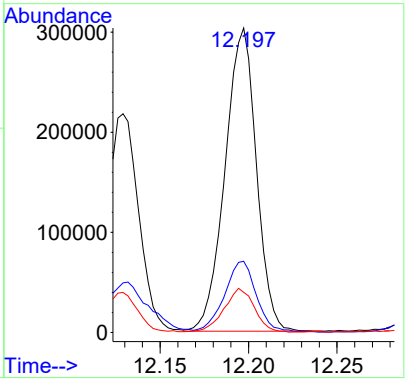


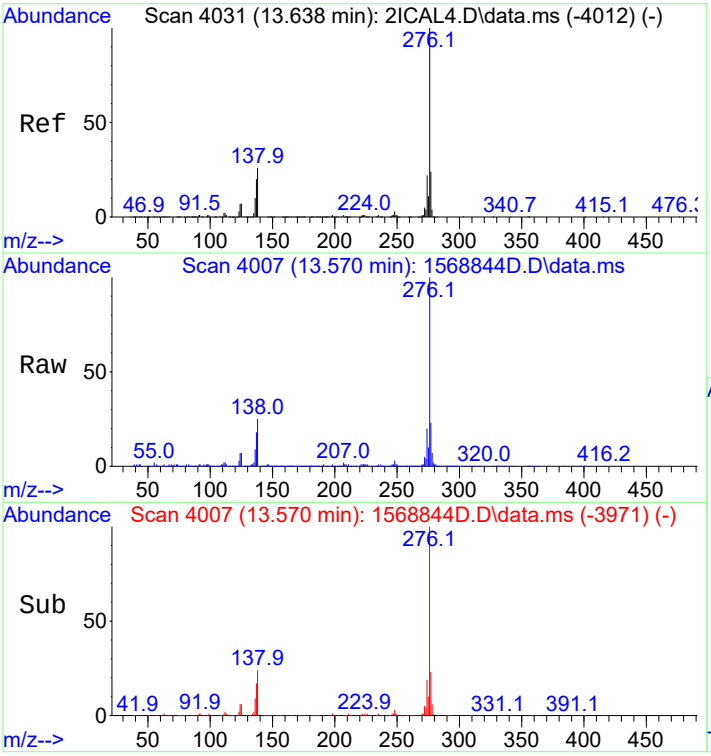




#89
Benz[a]pyrene
Concen: 14.03 ug/mL
RT: 12.197 min Scan# 3524
Delta R.T. -0.000 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:252 Resp: 374034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.2 | 0.0 | 52.3 |
| 125 | 13.1 | 0.0 | 45.1 |

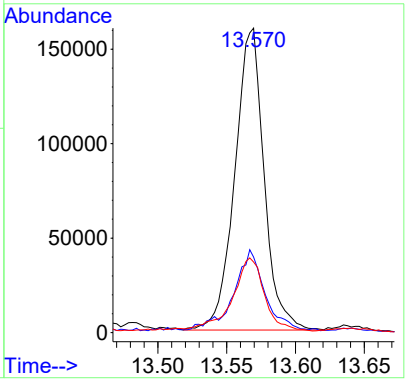


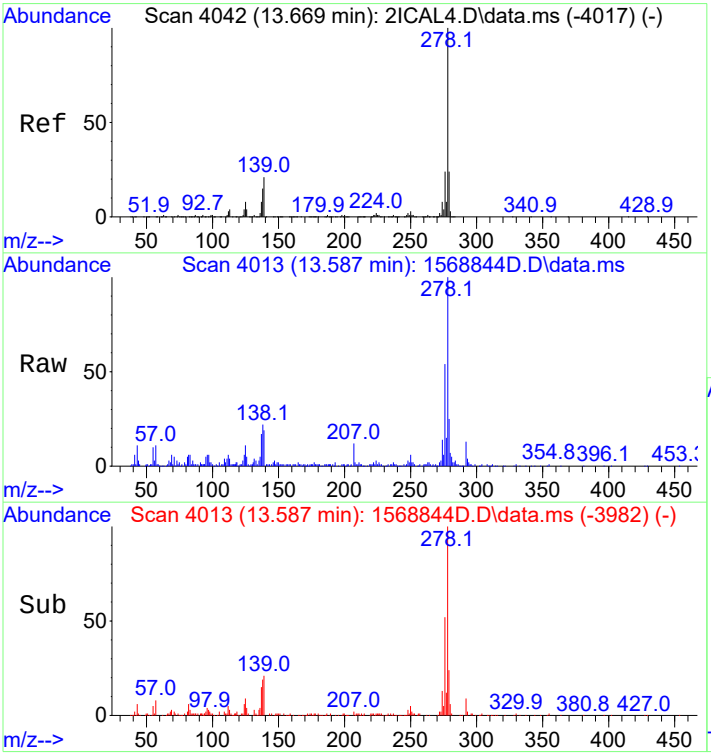



#90
Indeno-pyrene
Concen: 8.04 ug/mL
RT: 13.570 min Scan# 4007
Delta R.T. 0.003 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:276 Resp: 237238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.3 | 0.0 | 55.5 |
| 277 | 22.6 | 0.0 | 54.0 |

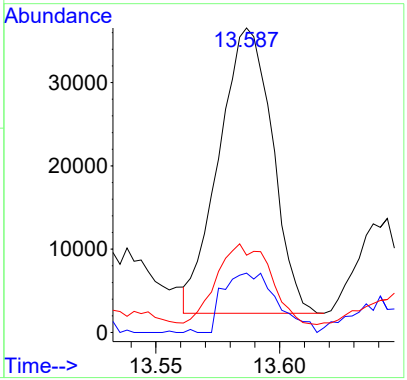


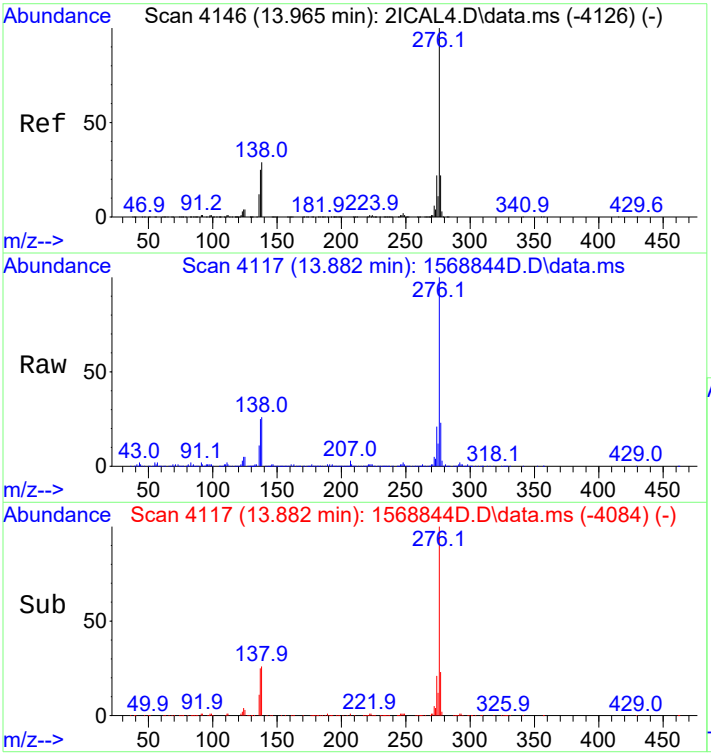




#91
Dib[ah]anthr
Concen: 2.14 ug/mL
RT: 13.587 min Scan# 4013
Delta R.T. -0.011 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:278 Resp: 51536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.8 | 0.0 | 50.9 |
| 279 | 23.8 | 0.0 | 54.4 |

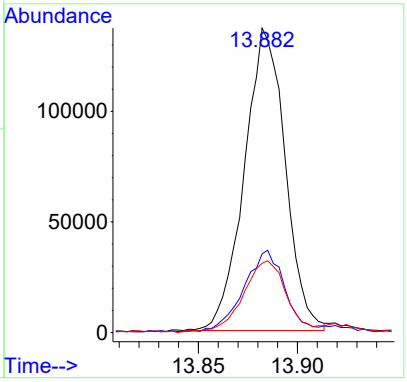





#92
B[ghi]perylen
Concen: 8.47 ug/mL
RT: 13.882 min Scan# 4117
Delta R.T. -0.006 min
Lab File: 1568844D.D
Acq: 11 Apr 2025 14:32

Tgt Ion:276 Resp: 195832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.7 | 0.0 | 59.0 |
| 277 | 22.2 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568836D.D Vial: 11
Acq On : 11 Apr 2025 14:55 Operator: JJY
Sample : 290730,1568836,5 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:20 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

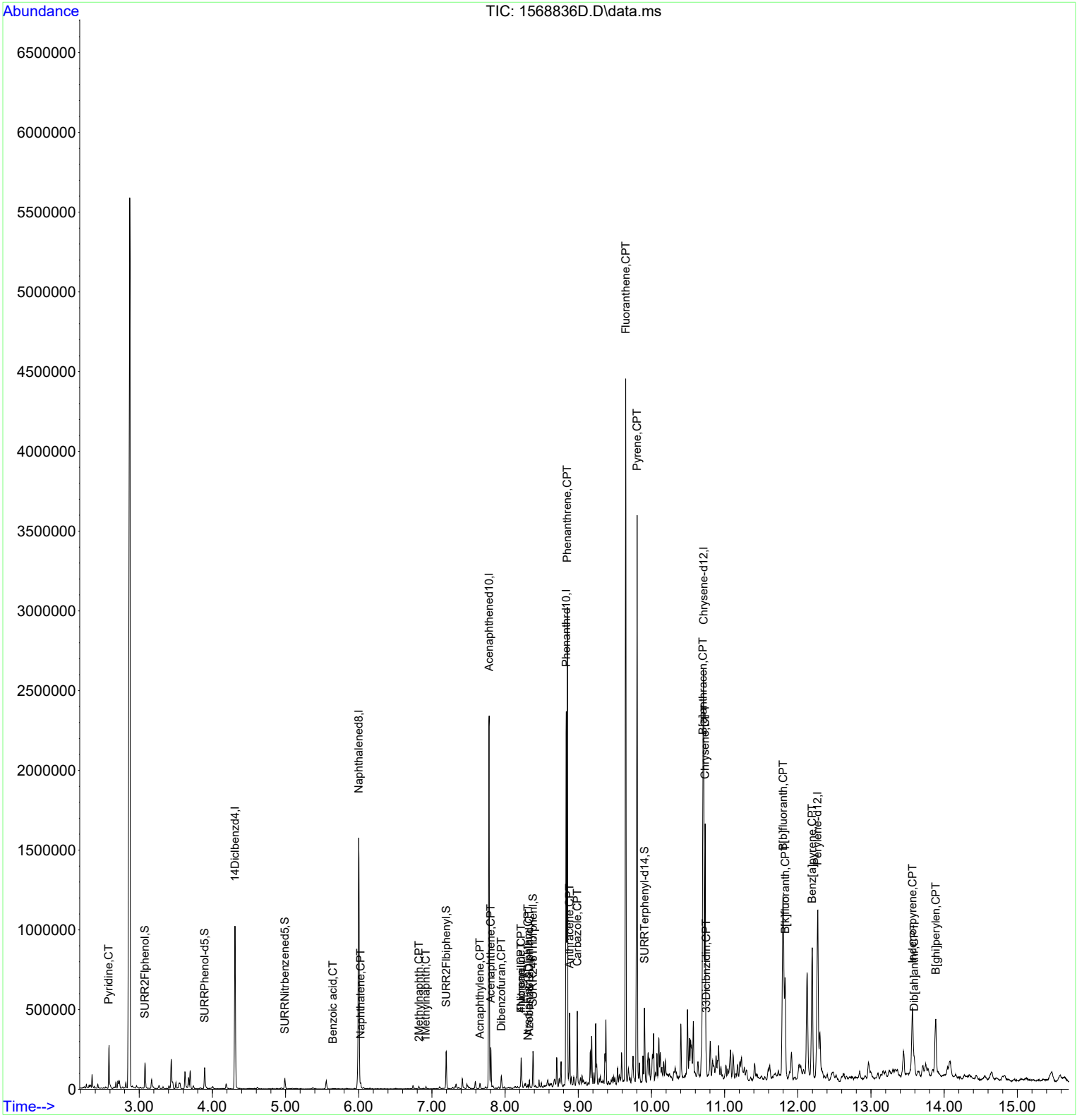
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 152996 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 731711 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 412366 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 607120 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.711 | 240 | 522968 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.271 | 264 | 492622 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.079 | 112 | 36537 | 9.92 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 9.92% | | | |
| 7) SURRPhenol-d5 | 3.895 | 99 | 46191 | 10.43 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 10.43% | | | |
| 22) SURRNitrbenzened5 | 4.991 | 82 | 20180 | 10.12 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 10.12% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 60524 | 12.30 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.30% | | | |
| 62) SURR246Tribrphenl | 8.381 | 330 | 13144 | 11.91 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 11.91% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 74736 | 14.66 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 14.66% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Pyridine | 2.585 | 79 | 1102 | 0.1041 | ug/mL | 91 |
| 30) Benzoic acid | 5.648 | 122 | 728 | 3.0525 | ug/mL | 81 |
| 31) Naphthalene | 6.026 | 128 | 11279 | 0.3342 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.821 | 142 | 3143 | 0.1541 | ug/mL | 83 |
| 38) 1Methylnaphth | 6.918 | 142 | 3294 | 0.1562 | ug/mL | 93 |
| 47) Acnaphthylene | 7.657 | 152 | 9911 | 0.2970 | ug/mL | 93 |
| 50) Acenaphthene | 7.804 | 154 | 43817 | 2.2091 | ug/mL | 99 |
| 53) Dibenzofuran | 7.949 | 168 | 25630 | 0.8948 | ug/mL | 89 |
| 58) Fluorene | 8.219 | 166 | 37234 | 1.7005 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.219 | 138 | 511 | 0.4200 | ug/mL# | 49 |
| 65) Ntrsdiphlam&Diphlam | 8.310 | 169 | 910 | 0.0581 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.330 | 182 | 8382 | 1.5017 | ug/mL# | 1 |
| 70) Phenanthrene | 8.850 | 178 | 720268 | 24.3510 | ug/mL | 99 |
| 71) Anthracene | 8.881 | 178 | 118676 | 3.9435 | ug/mL | 97 |
| 72) Carbazole | 8.986 | 167 | 122056 | 4.7630 | ug/mL | 97 |
| 74) Fluoranthene | 9.649 | 202 | 1260910 | 40.3703 | ug/mL | 99 |
| 76) Benzidine | 9.768 | 184 | 774 | Below Cal | | 72 |
| 77) Pyrene | 9.805 | 202 | 998720 | 30.0657 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.748 | 252 | 2421 | 0.0959 | ug/mL# | 20 |
| 82) B[a]anthracen | 10.703 | 228 | 503888 | 16.0037 | ug/mL | 98 |
| 83) Chrysene | 10.734 | 228 | 504835 | 17.0963 | ug/mL | 96 |
| 87) B[b]fluoranth | 11.800 | 252 | 648842 | 24.8646 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.828 | 252 | 235543 | 9.0091 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.197 | 252 | 393535 | 16.3986 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.567 | 276 | 231092 | 8.7064 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.590 | 278 | 47720 | 2.1994 | ug/mL | 94 |
| 92) B[ghi]perylen | 13.885 | 276 | 188526 | 9.0656 | ug/mL | 96 |

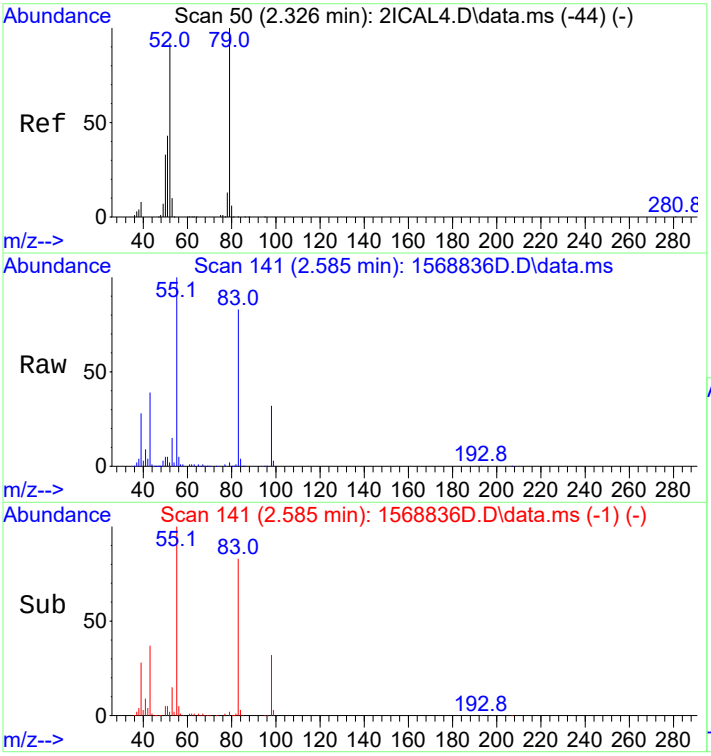
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568836D.D Vial: 11
Acq On : 11 Apr 2025 14:55 Operator: JJY
Sample : 290730,1568836,5 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:20 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

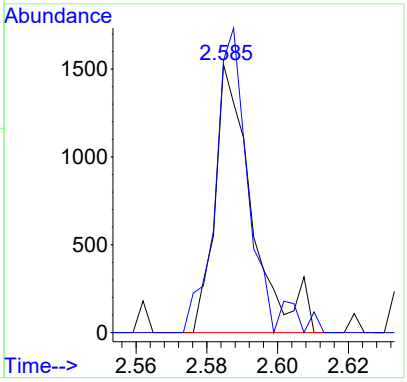


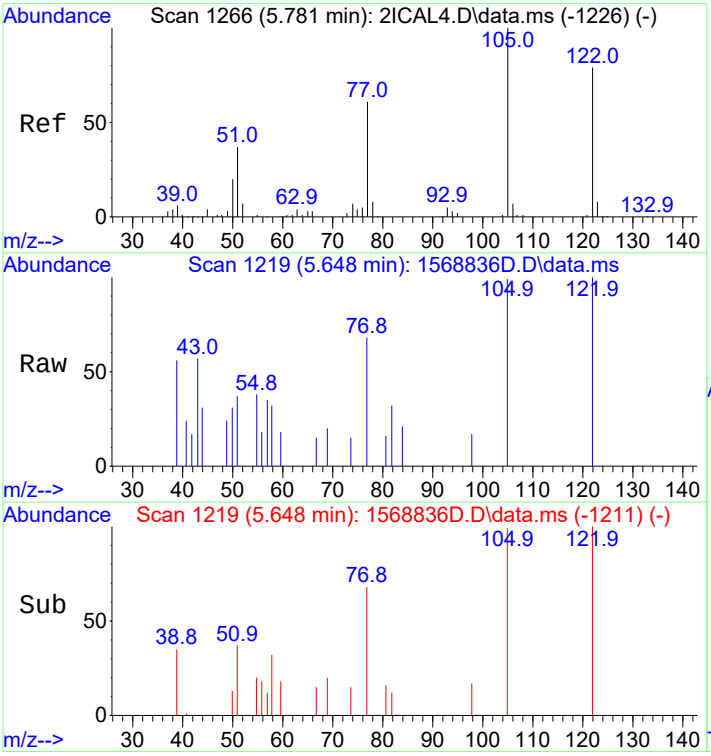



#3
Pyridine
Concen: 0.10 ug/mL
RT: 2.585 min Scan# 141
Delta R.T. 0.290 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion: 79 Resp: 1102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 101.5 | 62.5 | 122.5 |

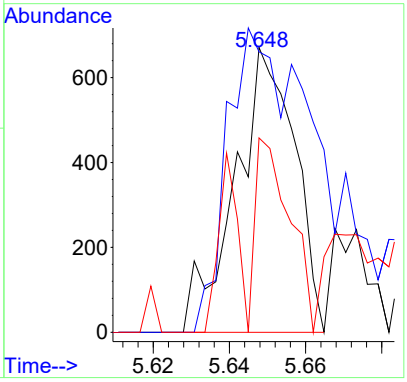


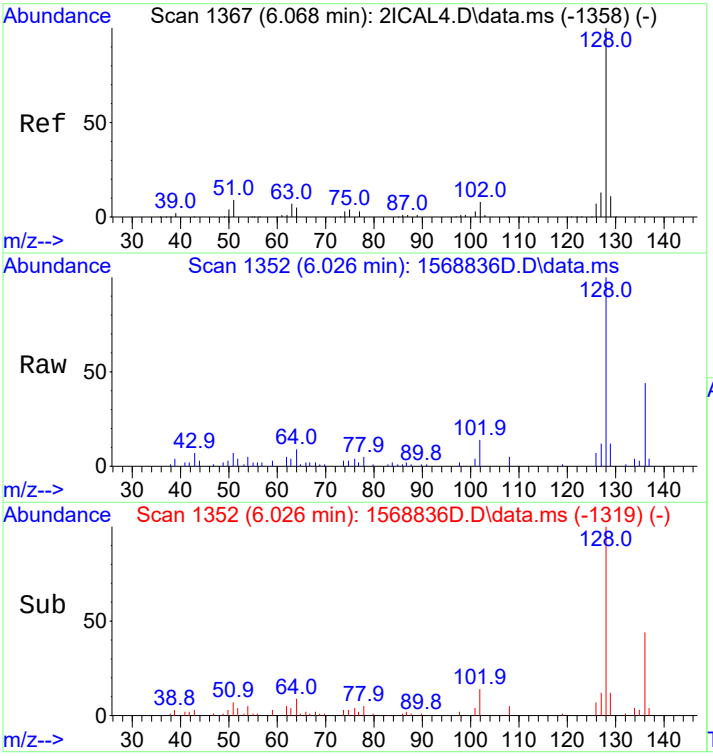




#30
Benzoic acid
Concen: 3.05 ug/mL
RT: 5.648 min Scan# 1219
Delta R.T. -0.108 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:122 Resp: 728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 98.5 | 96.0 | 156.0 |
| 77 | 68.3 | 46.6 | 106.6 |

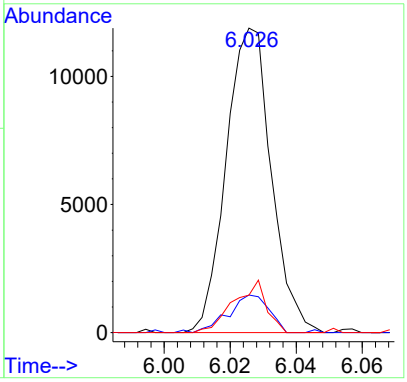


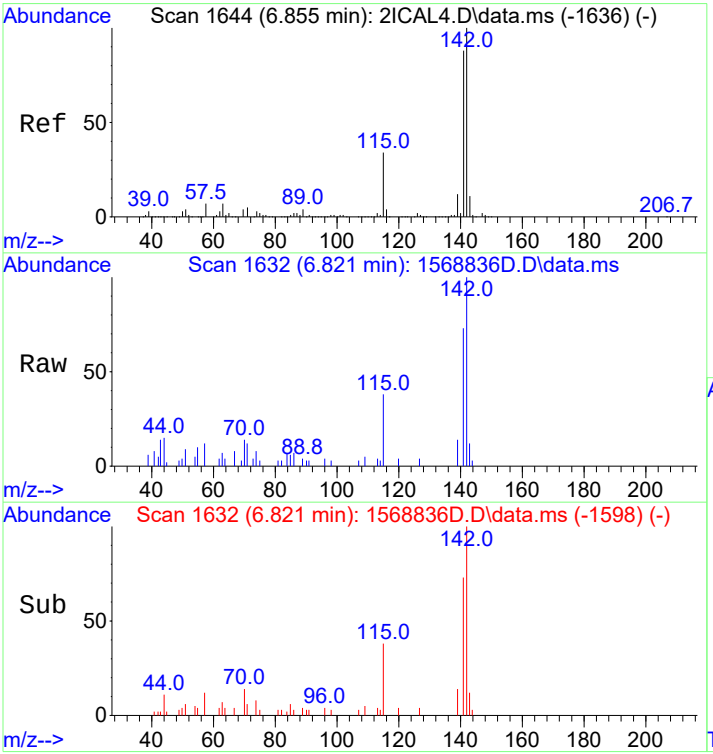



#31
Naphthalene
Concen: 0.33 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.006 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:128 Resp: 11279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.4 | 0.0 | 41.0 |
| 127 | 12.3 | 0.0 | 43.3 |

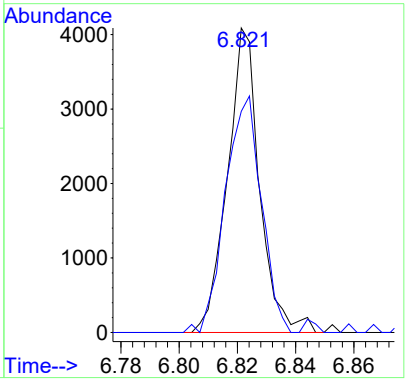


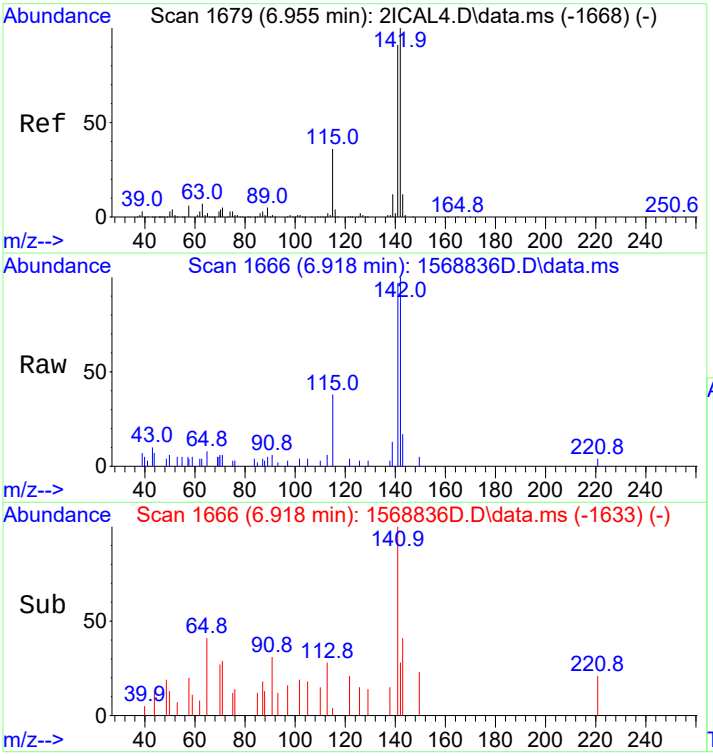




#37
2Methylnaphth
Concen: 0.15 ug/mL
RT: 6.821 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:142 Resp: 3143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 72.6 | 58.0 | 118.0 |

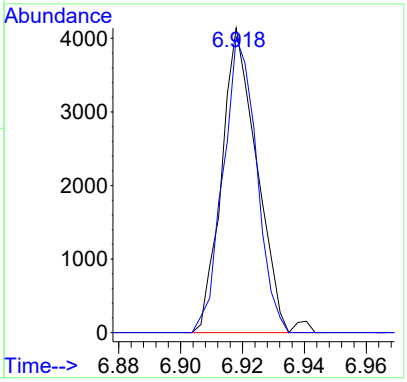


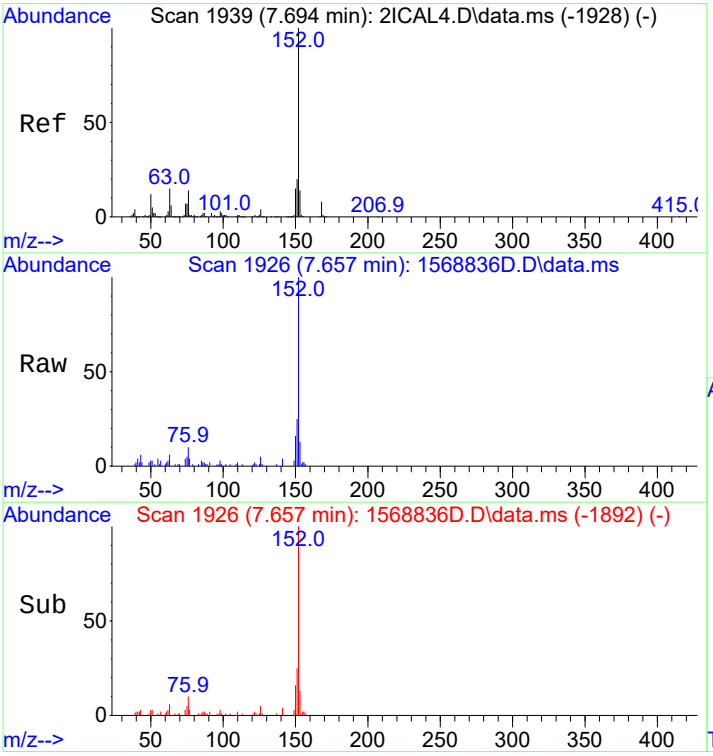



#38
1Methylnaphth
Concen: 0.16 ug/mL
RT: 6.918 min Scan# 1666
Delta R.T. -0.006 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:142 Resp: 3294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 97.1 | 60.7 | 120.7 |

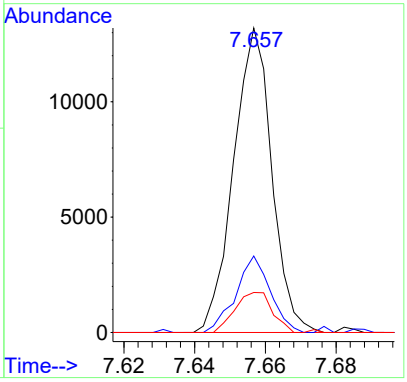


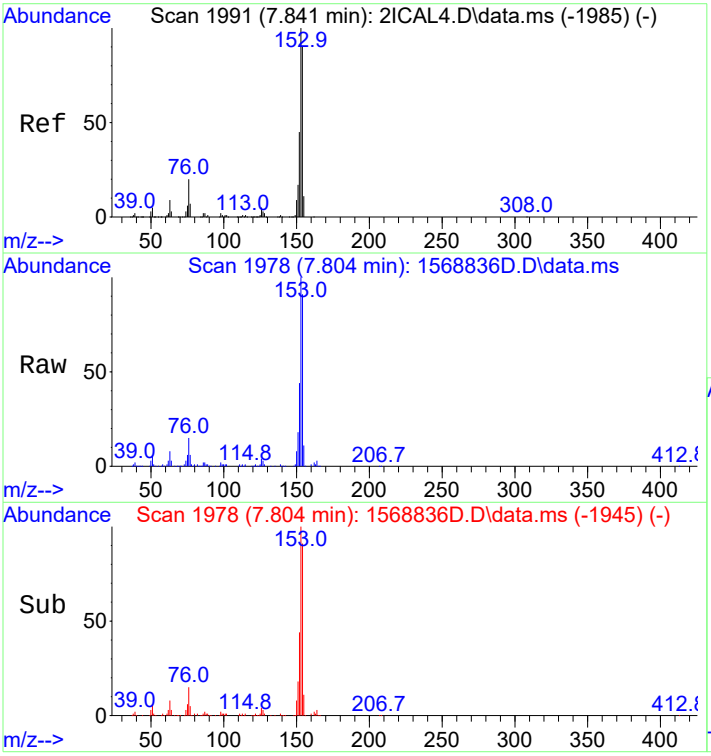




#47
Acnaphthylene
Concen: 0.30 ug/mL
RT: 7.657 min Scan# 1926
Delta R.T. -0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:152 Resp: 9911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 25.1 | 0.0 | 50.3 |
| 153 | 13.1 | 0.0 | 44.4 |

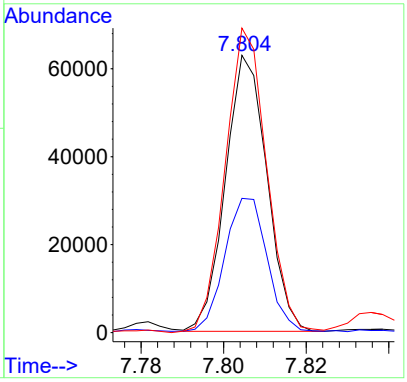


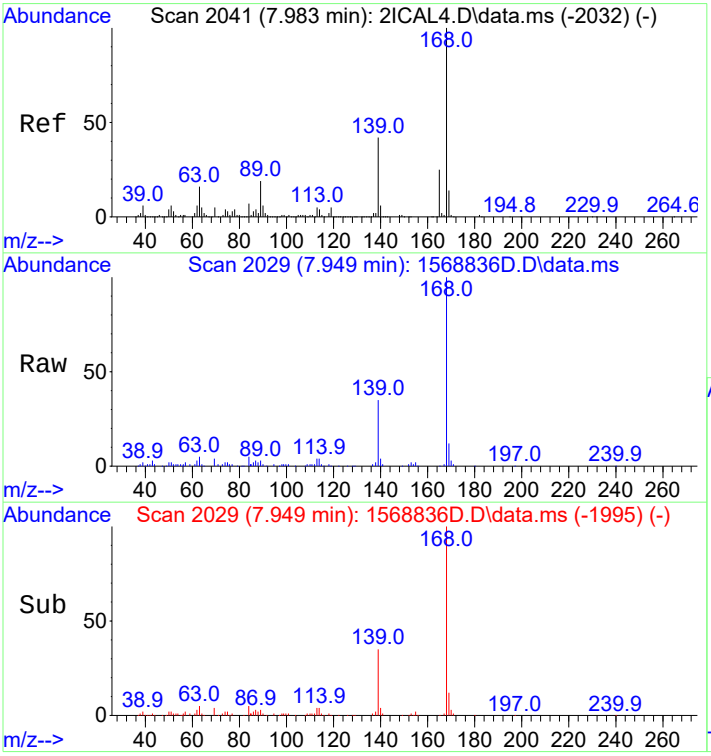



#50
Acenaphthene
Concen: 2.21 ug/mL
RT: 7.804 min Scan# 1978
Delta R.T. -0.006 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:154 Resp: 43817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 48.1 | 20.0 | 80.0 |
| 153 | 109.9 | 80.7 | 140.7 |

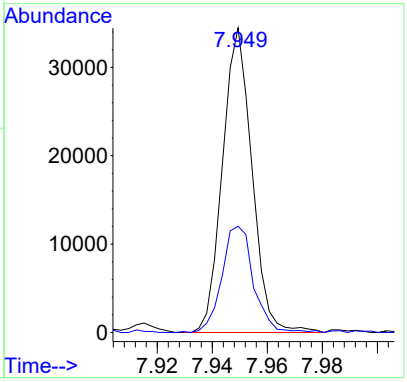


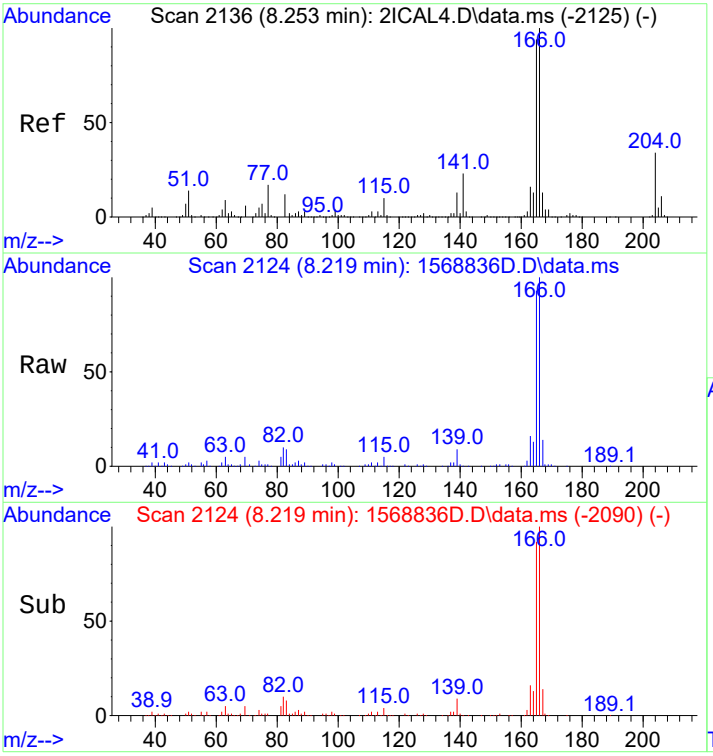




#53
Dibenzofuran
Concen: 0.89 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:168 Resp: 25630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 34.9 | 11.9 | 71.9 |

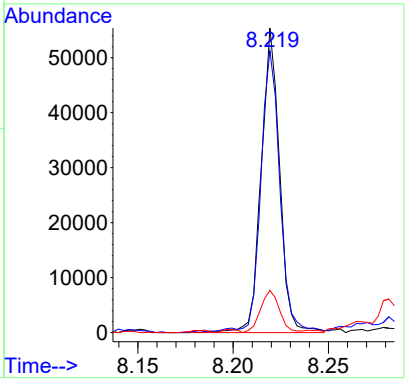


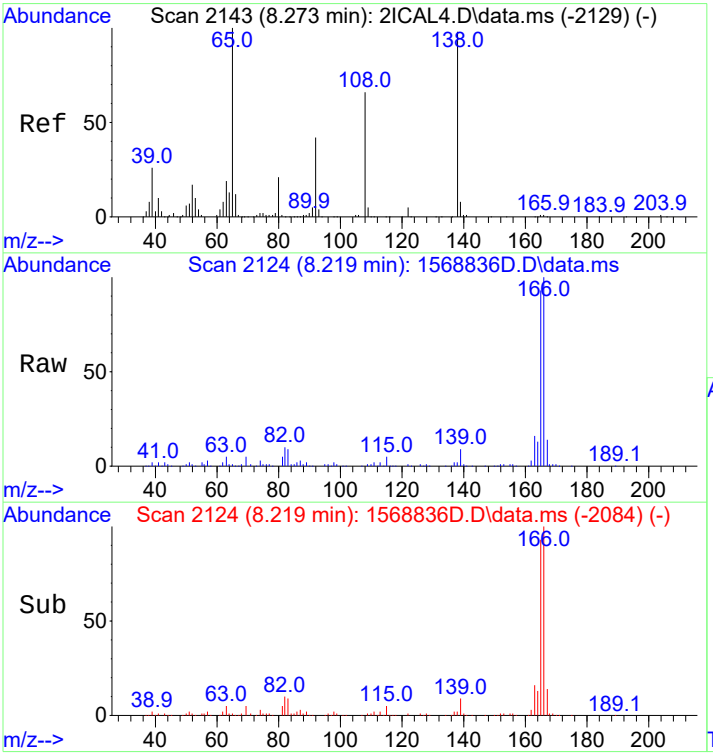



#58
Fluorene
Concen: 1.70 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:166 Resp: 37234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 92.6 | 63.6 | 123.6 |
| 167 | 14.6 | 0.0 | 43.3 |

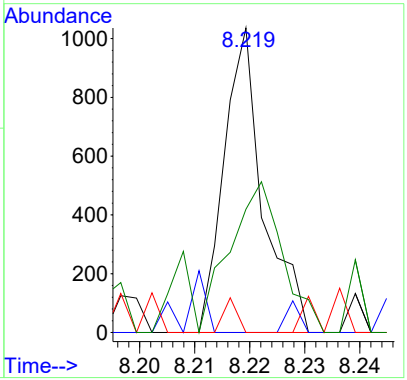


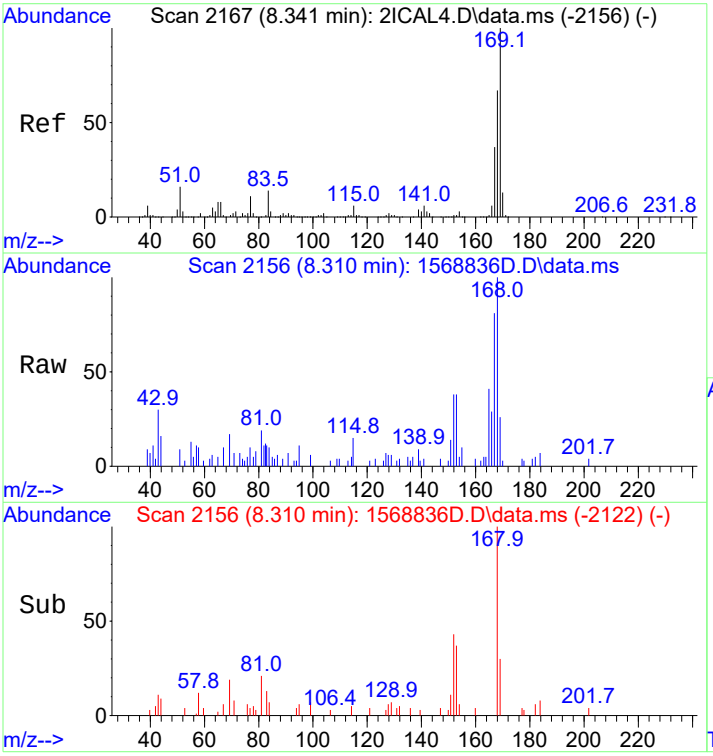




#61
4Nitroaniline
Concen: 0.42 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.026 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:138 Resp: 511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 28.2 | 36.9 | 96.9# |
| 65 | 55.6 | 71.1 | 131.1# |

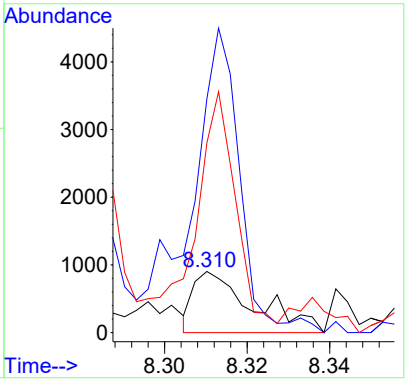


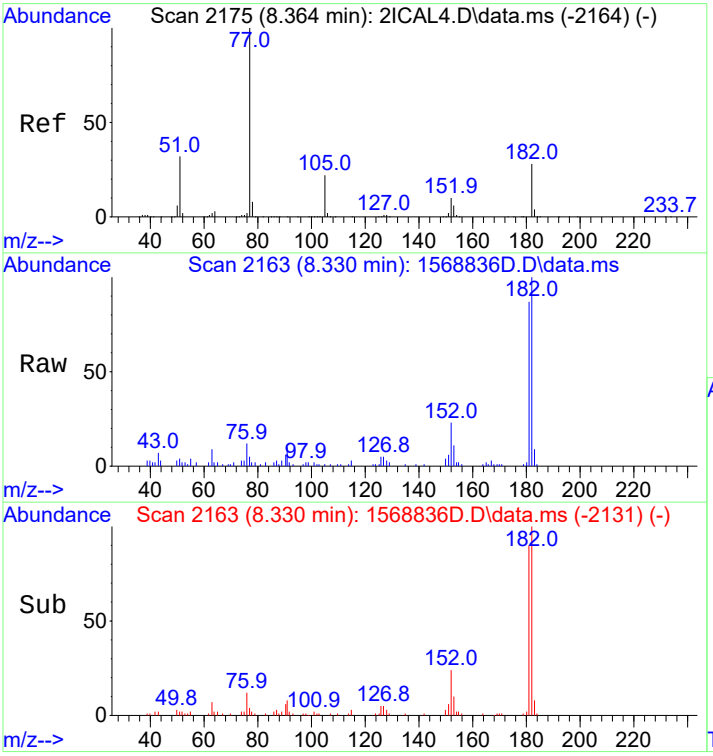



#65
Ntrsdiphlam&Diphlam
Concen: 0.06 ug/mL
RT: 8.310 min Scan# 2156
Delta R.T. -0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:169 Resp: 910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 382.8 | 37.2 | 97.2# |
| 167 | 275.6 | 6.9 | 66.9# |

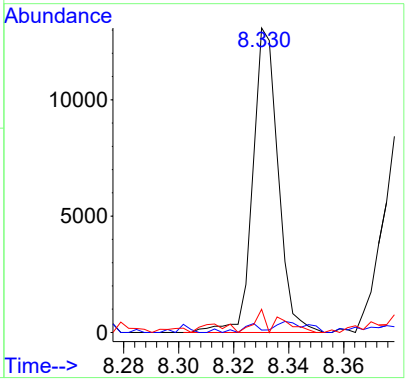


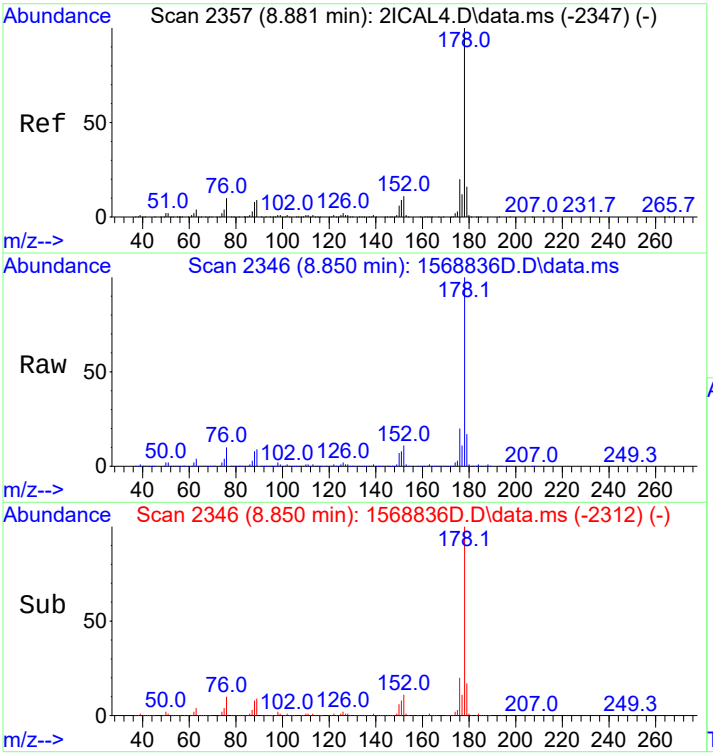




#66
Azobenz&12Diphlhyd
Concen: 1.50 ug/mL
RT: 8.330 min Scan# 2163
Delta R.T. -0.008 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:182 Resp: 8382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.8 | 49.9 | 109.9# |
| 77 | 7.6 | 339.9 | 399.9# |

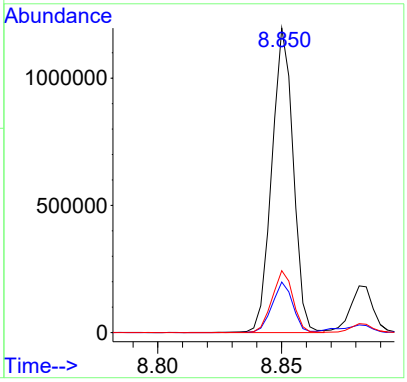


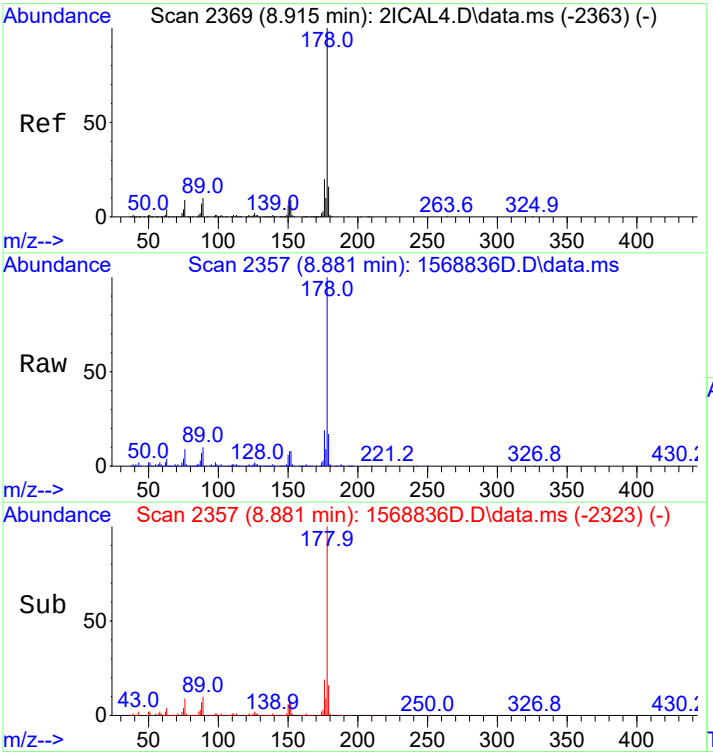



#70
Phenanthrene
Concen: 24.35 ug/mL
RT: 8.850 min Scan# 2346
Delta R.T. -0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:178 Resp: 720268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.6 | 0.0 | 45.9 |
| 176 | 20.3 | 0.0 | 50.4 |

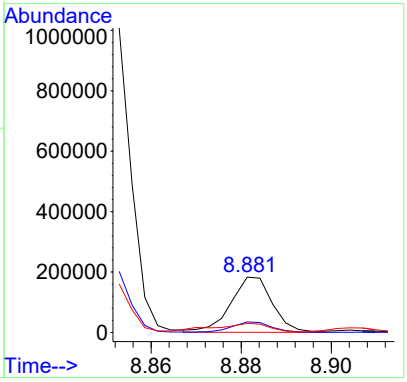


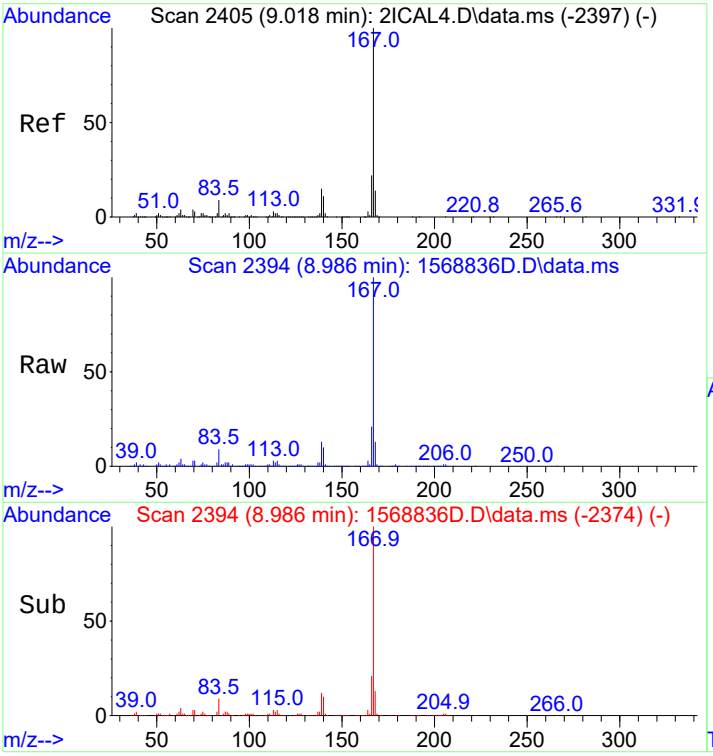




#71
Anthracene
Concen: 3.94 ug/mL
RT: 8.881 min Scan# 2357
Delta R.T. -0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:178 Resp: 118676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 0.0 | 49.5 |
| 179 | 13.1 | 0.0 | 45.9 |

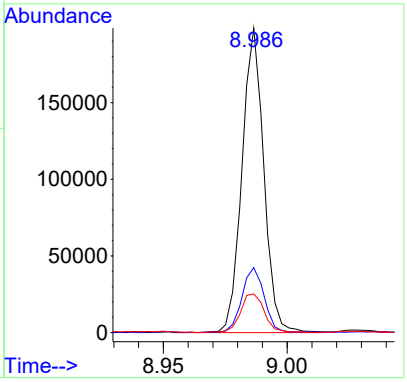


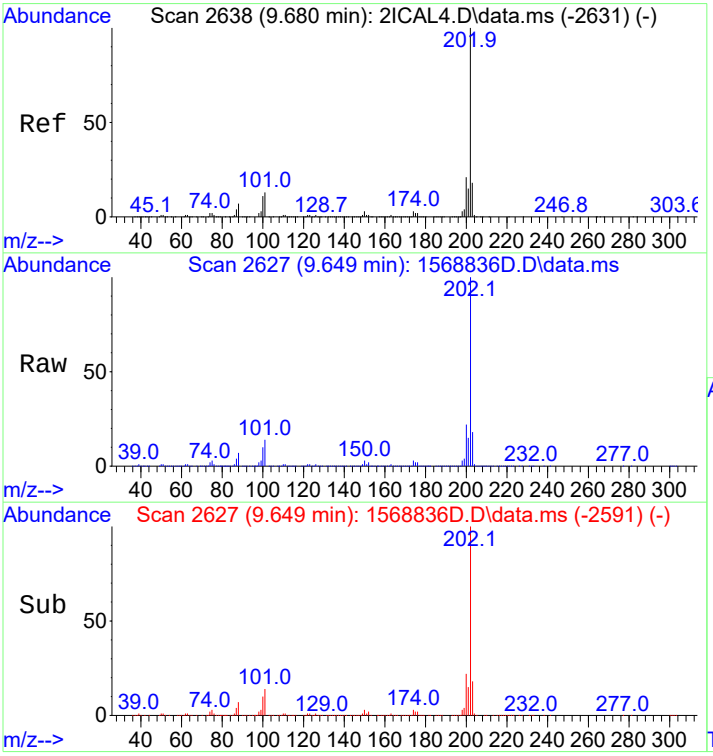



#72
Carbazole
Concen: 4.76 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:167 Resp: 122056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.3 | 0.0 | 52.1 |
| 139 | 12.6 | 0.0 | 44.7 |

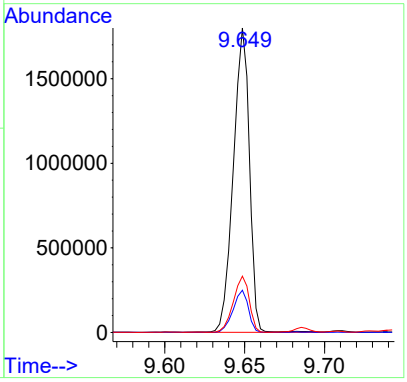


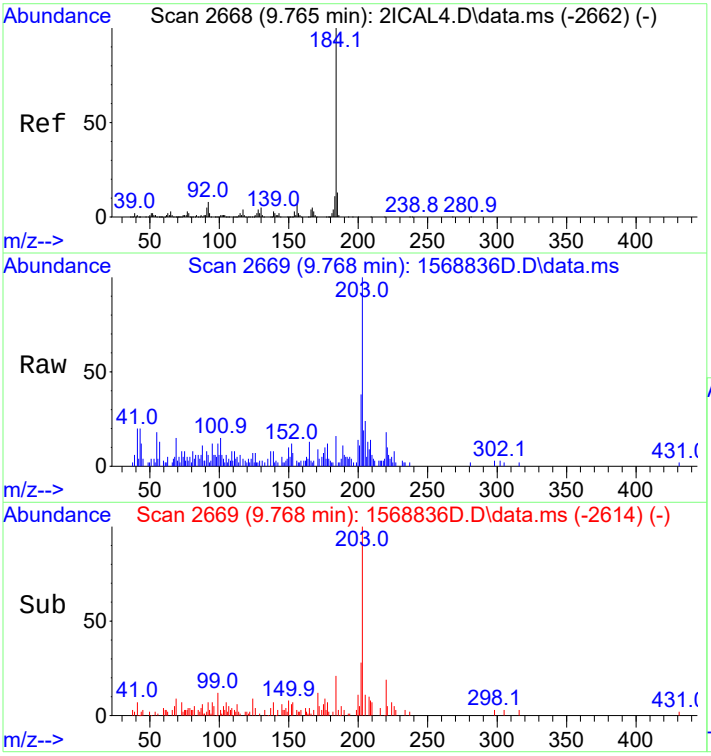




#74
Fluoranthene
Concen: 40.37 ug/mL
RT: 9.649 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:202 Resp: 1260910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.8 | 0.0 | 43.0 |
| 203 | 18.4 | 0.0 | 48.2 |

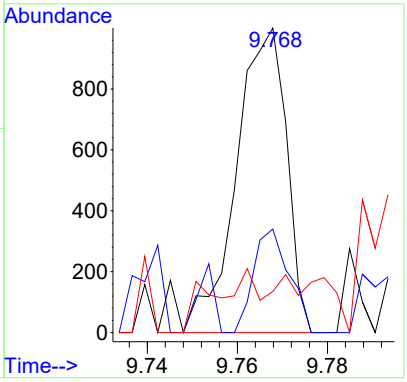


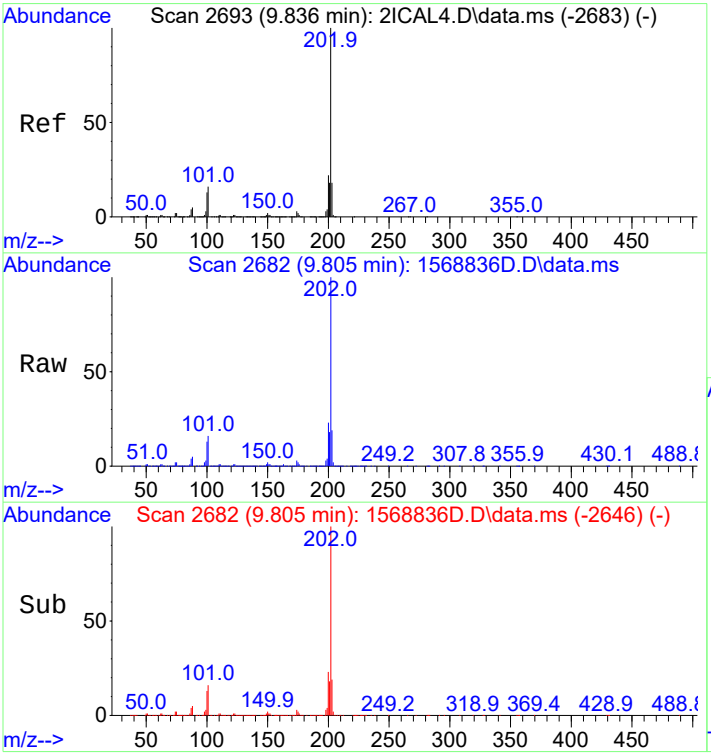



#76
Benzidine
Concen: Below Cal
RT: 9.768 min Scan# 2669
Delta R.T. 0.037 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:184 Resp: 774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 34.0 | 0.0 | 38.2 |
| 185 | 13.5 | 0.0 | 43.3 |

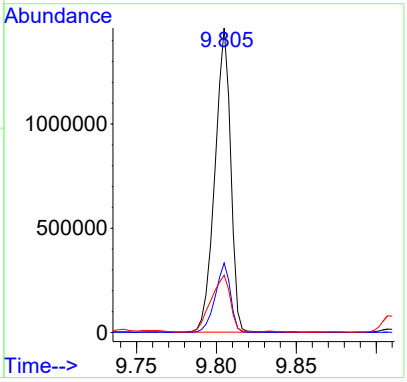


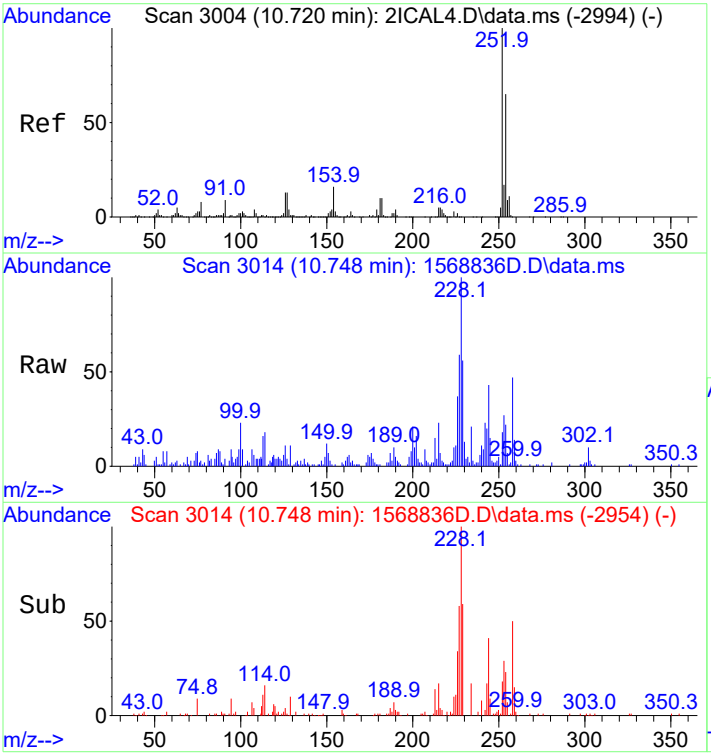




#77
Pyrene
Concen: 30.07 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:202 Resp: 998720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.8 | 0.0 | 52.2 |
| 203 | 18.7 | 0.0 | 48.2 |

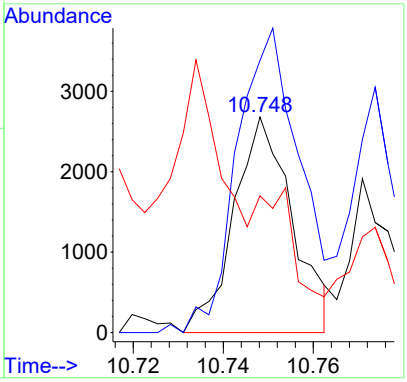


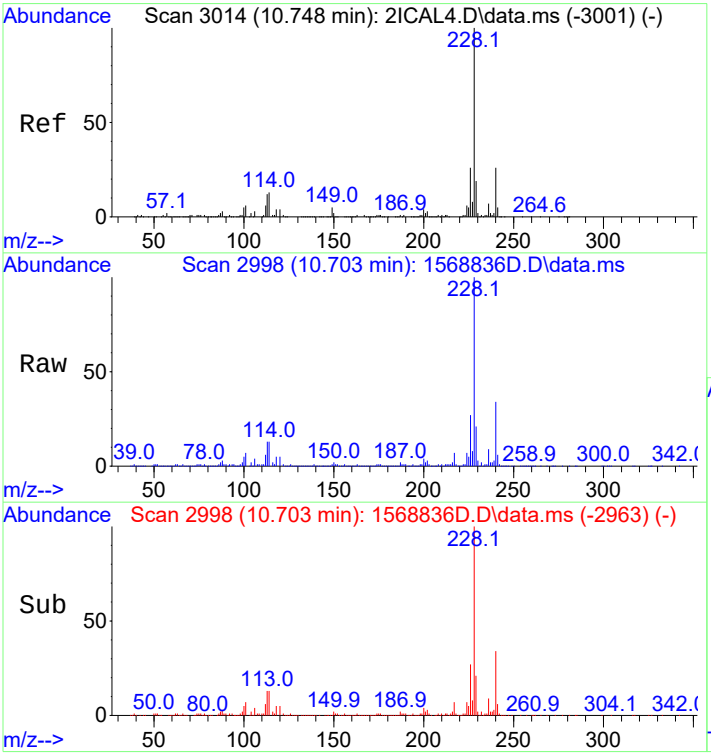



#81
33Diclbnzidin
Concen: 0.10 ug/mL
RT: 10.748 min Scan# 3014
Delta R.T. 0.071 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:252 Resp: 2421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 126.3 | 34.6 | 94.6# |
| 126 | 46.8 | 0.0 | 42.6# |

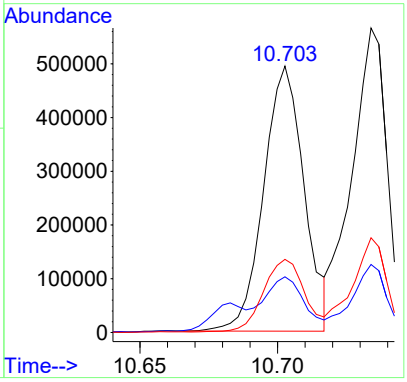


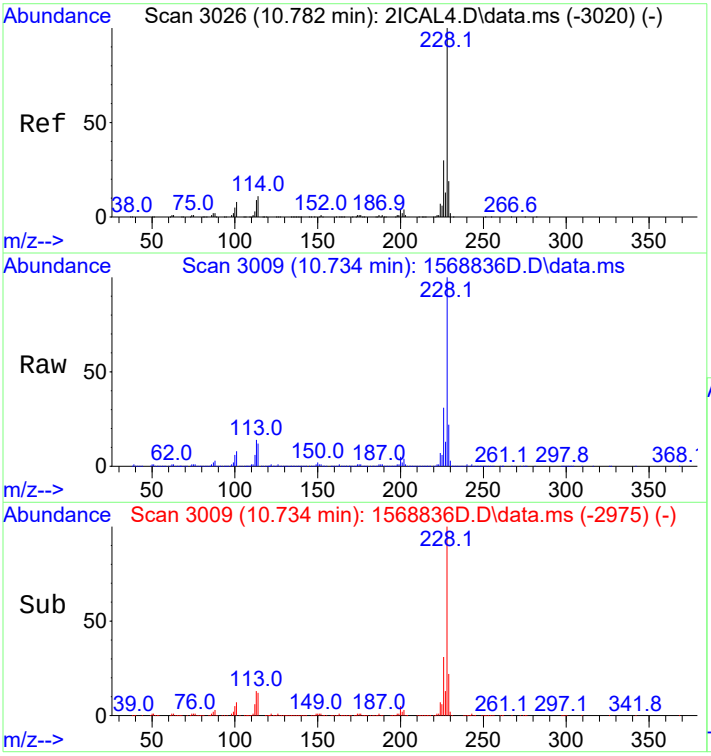




#82
B[a]anthracen
Concen: 16.00 ug/mL
RT: 10.703 min Scan# 2998
Delta R.T. 0.000 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:228 Resp: 503888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.3 | 0.0 | 49.4 |
| 226 | 27.3 | 0.0 | 56.5 |

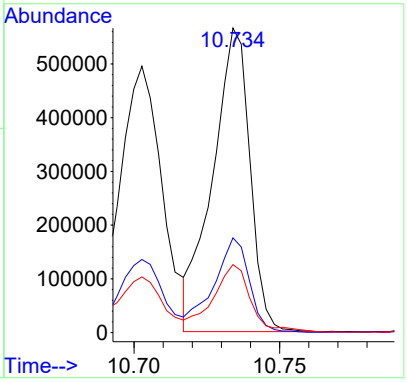


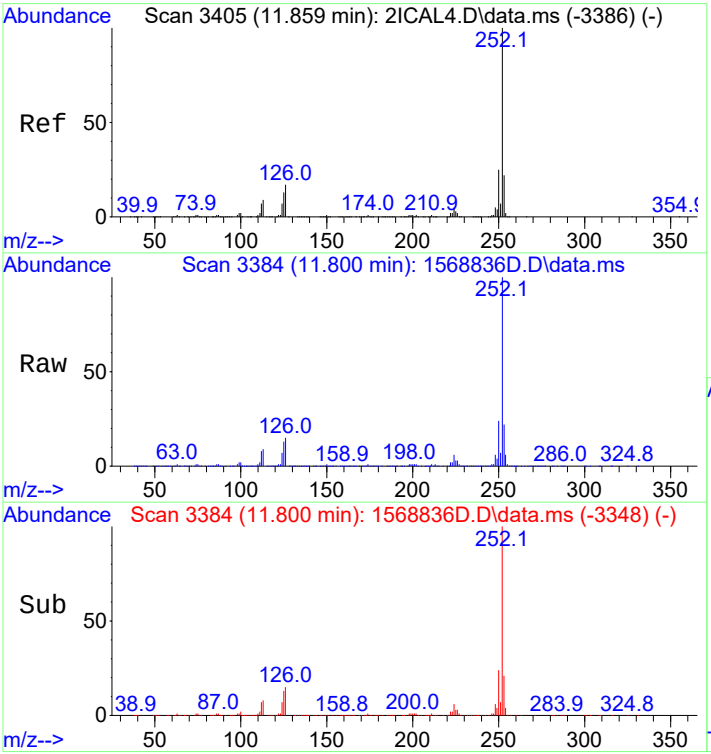



#83
Chrysene
Concen: 17.10 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:228 Resp: 504835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 0.0 | 59.9 |
| 229 | 22.2 | 0.0 | 49.5 |

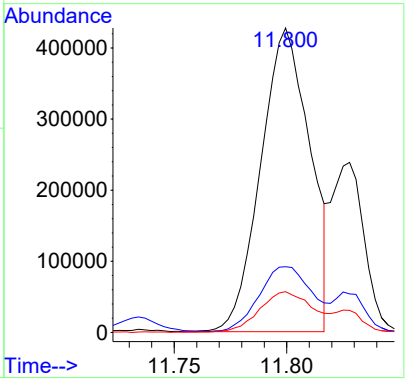


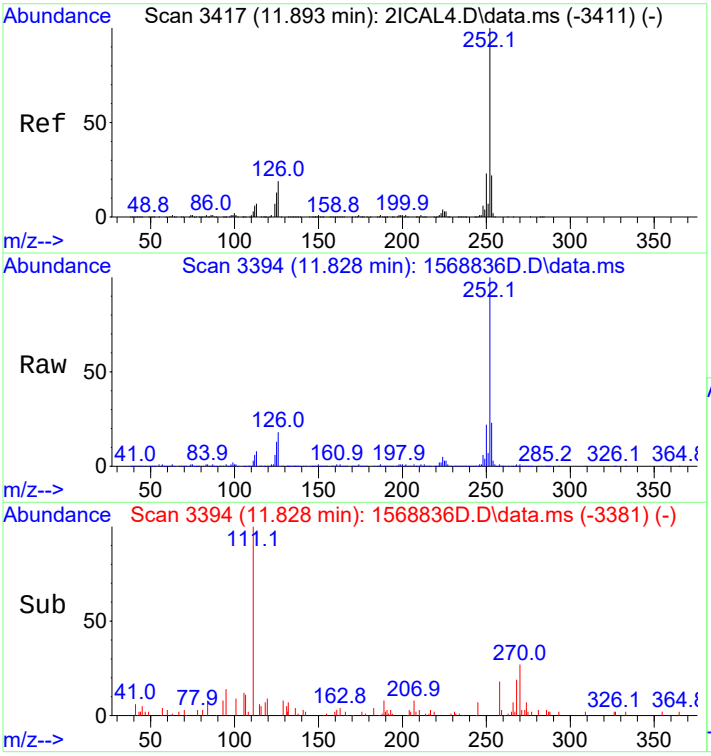




#87
B[b]fluoranth
Concen: 24.86 ug/mL
RT: 11.800 min Scan# 3384
Delta R.T. 0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:252 Resp: 648842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.0 | 0.0 | 52.3 |
| 125 | 13.3 | 0.0 | 43.2 |

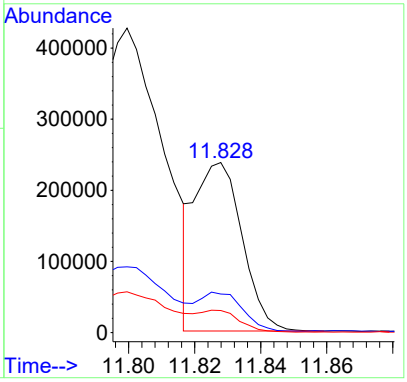


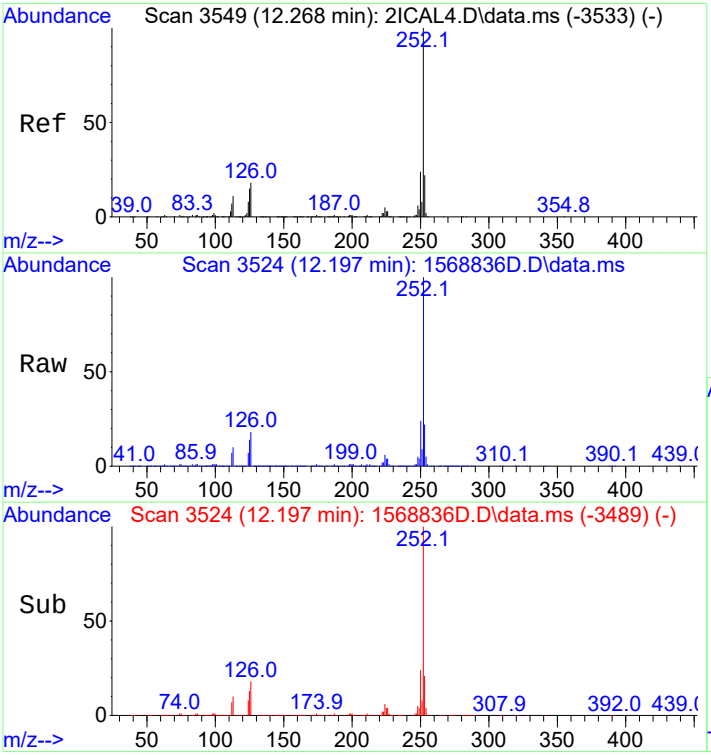



#88
B[k]fluoranth
Concen: 9.01 ug/mL
RT: 11.828 min Scan# 3394
Delta R.T. -0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:252 Resp: 235543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 0.0 | 52.0 |
| 125 | 12.7 | 0.0 | 43.3 |

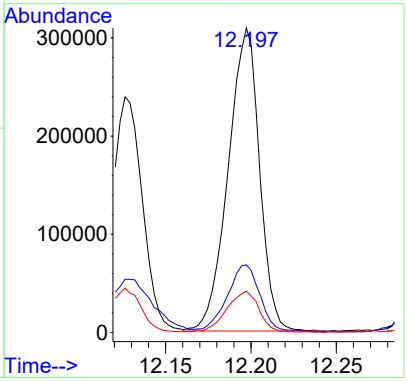


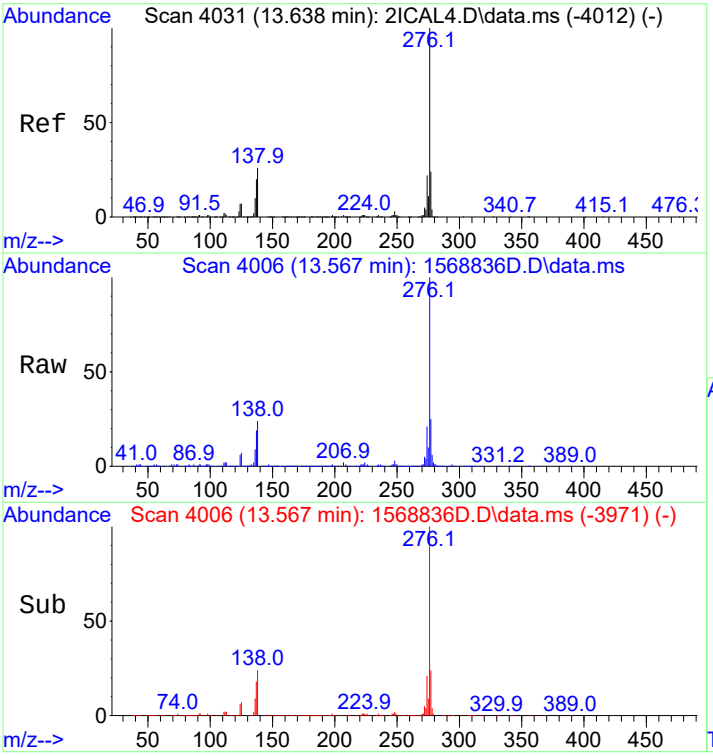




#89
Benz[a]pyrene
Concen: 16.40 ug/mL
RT: 12.197 min Scan# 3524
Delta R.T. 0.000 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:252 Resp: 393535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 0.0 | 52.3 |
| 125 | 13.6 | 0.0 | 45.1 |

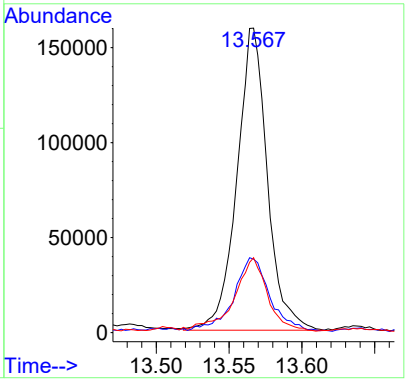


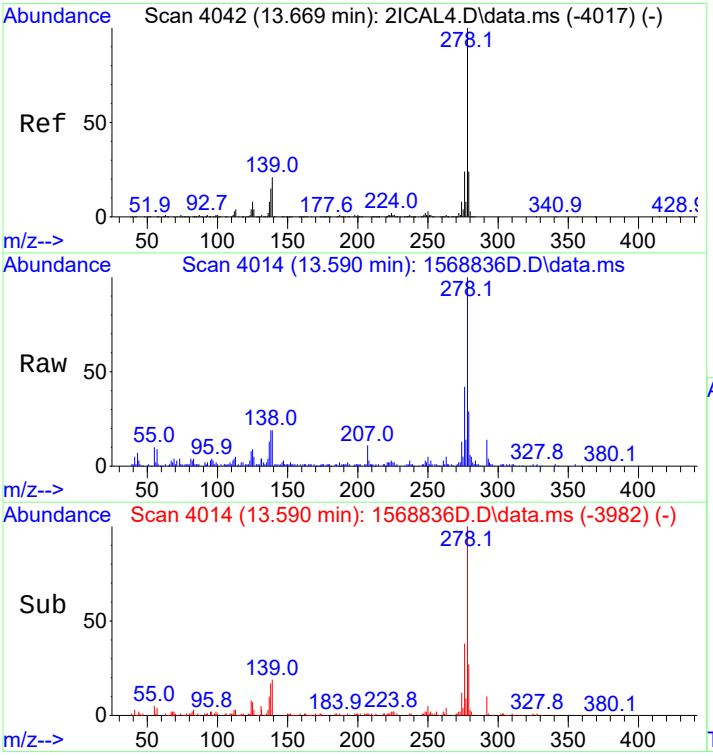



#90
Indeno-pyrene
Concen: 8.71 ug/mL
RT: 13.567 min Scan# 4006
Delta R.T. 0.000 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:276 Resp: 231092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.6 | 0.0 | 55.5 |
| 277 | 24.1 | 0.0 | 54.0 |

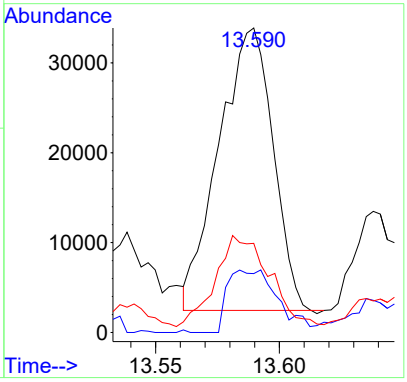


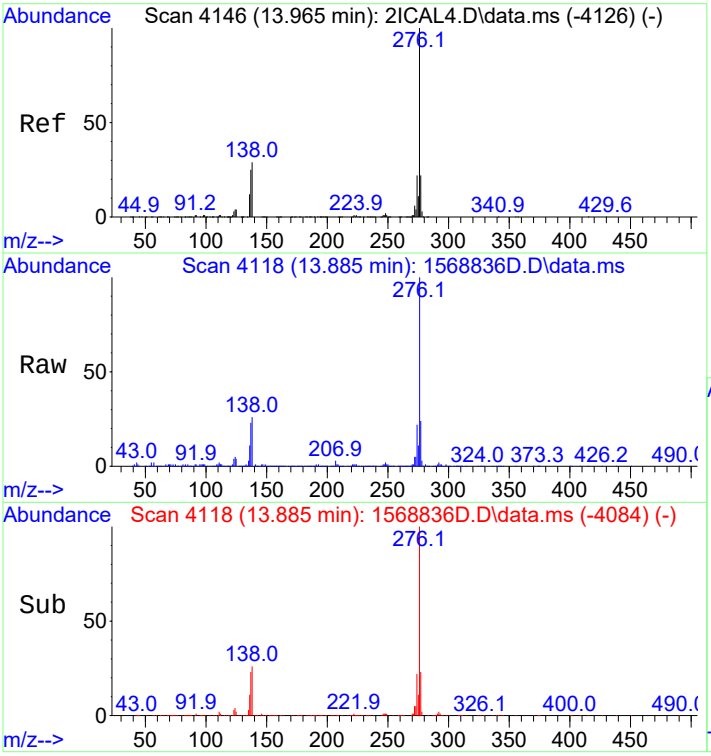




#91
Dib[ah]anthr
Concen: 2.20 ug/mL
RT: 13.590 min Scan# 4014
Delta R.T. -0.008 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:278 Resp: 47720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 19.9 | 0.0 | 50.9 |
| 279 | 28.8 | 0.0 | 54.4 |

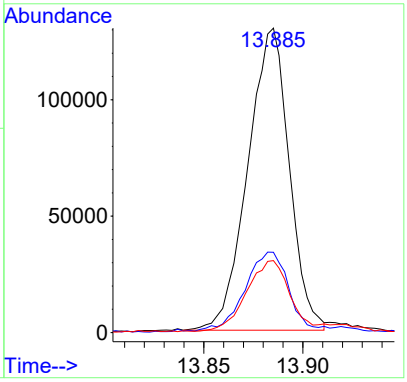





#92
B[ghi]perylen
Concen: 9.07 ug/mL
RT: 13.885 min Scan# 4118
Delta R.T. -0.003 min
Lab File: 1568836D.D
Acq: 11 Apr 2025 14:55

Tgt Ion:276 Resp: 188526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.1 | 0.0 | 59.0 |
| 277 | 23.3 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568843D.D Vial: 12
Acq On : 11 Apr 2025 15:18 Operator: JJY
Sample : 290730,1568843,5 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:32 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

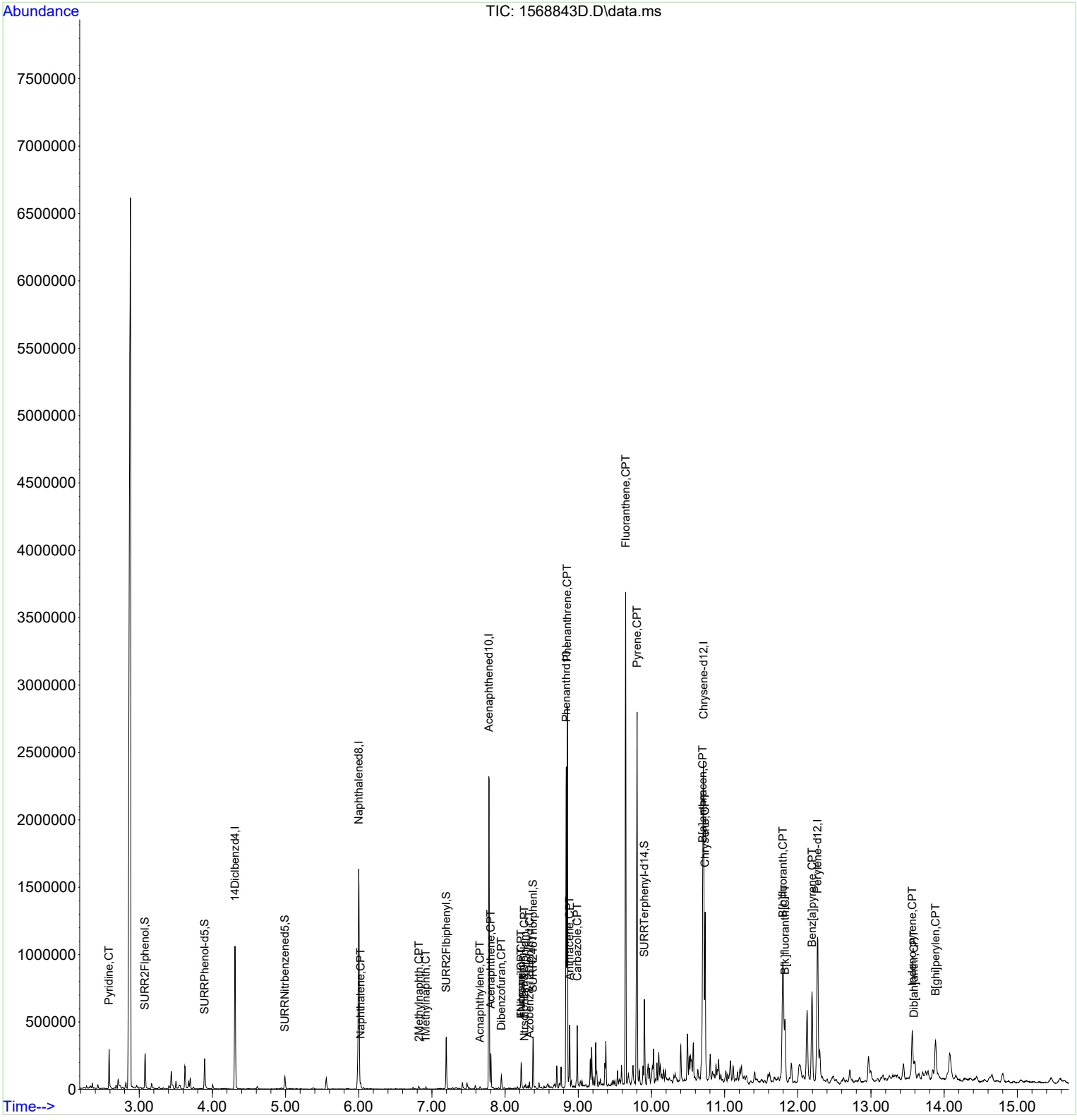
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 157712 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 753105 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.779 | 164 | 416351 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 619620 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.711 | 240 | 543012 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.268 | 264 | 530975 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.079 | 112 | 57785 | 15.22 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 15.22% | | | |
| 7) SURRPhenol-d5 | 3.894 | 99 | 77466 | 16.97 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 16.97% | | | |
| 22) SURRNitrbenzened5 | 4.991 | 82 | 31568 | 15.38 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 15.38% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 95325 | 19.19 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 19.19% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 25582 | 22.95 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 22.95% | | | |
| 78) SURRTerphenyl-d14 | 9.901 | 244 | 123511 | 23.33 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 23.33% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Pyridine | 2.587 | 79 | 1055 | 0.0967 | ug/mL | 79 |
| 31) Naphthalene | 6.026 | 128 | 13575 | 0.3908 | ug/mL | 99 |
| 37) 2Methylnaphth | 6.821 | 142 | 4750 | 0.2263 | ug/mL | 94 |
| 38) 1Methylnaphth | 6.918 | 142 | 3632 | 0.1673 | ug/mL | 96 |
| 47) Acnaphthylene | 7.657 | 152 | 4251 | 0.1262 | ug/mL | 82 |
| 50) Acenaphthene | 7.804 | 154 | 44484 | 2.2213 | ug/mL | 98 |
| 53) Dibenzofuran | 7.949 | 168 | 31011 | 1.0723 | ug/mL | 97 |
| 58) Fluorene | 8.219 | 166 | 39899 | 1.8048 | ug/mL | 98 |
| 61) 4Nitroaniline | 8.219 | 138 | 343 | 0.3869 | ug/mL# | 42 |
| 65) Ntrsdiphlam&Diphlam | 8.265 | 169 | 1452 | 0.0909 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 6881 | 1.2079 | ug/mL# | 1 |
| 70) Phenanthrene | 8.850 | 178 | 669349 | 22.1730 | ug/mL | 100 |
| 71) Anthracene | 8.881 | 178 | 128765 | 4.1925 | ug/mL | 100 |
| 72) Carbazole | 8.986 | 167 | 119221 | 4.5585 | ug/mL | 99 |
| 74) Fluoranthene | 9.648 | 202 | 1044813 | 32.7767 | ug/mL | 99 |
| 77) Pyrene | 9.805 | 202 | 818389 | 23.7275 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.748 | 252 | 1838 | Below Cal | # | 16 |
| 82) B[a]anthracen | 10.700 | 228 | 409467 | 12.5248 | ug/mL | 98 |
| 83) Chrysene | 10.734 | 228 | 405371 | 13.2212 | ug/mL | 97 |
| 87) B[b]fluoranth | 11.797 | 252 | 528427 | 18.7874 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.825 | 252 | 173336 | 6.1509 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.194 | 252 | 312838 | 12.0943 | ug/mL | 96 |
| 90) Indeno-pyrene | 13.564 | 276 | 179402 | 6.2707 | ug/mL | 97 |
| 91) Dib[ah]anthr | 13.587 | 278 | 38975 | 1.6666 | ug/mL | 93 |
| 92) B[ghi]perylen | 13.882 | 276 | 152652 | 6.8103 | ug/mL | 96 |

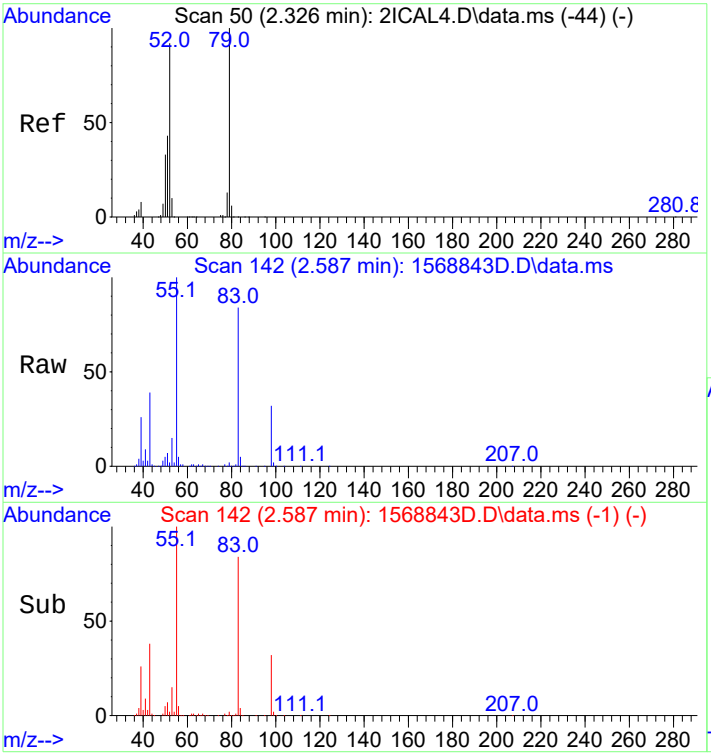
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568843D.D Vial: 12
Acq On : 11 Apr 2025 15:18 Operator: JJY
Sample : 290730,1568843,5 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:32 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

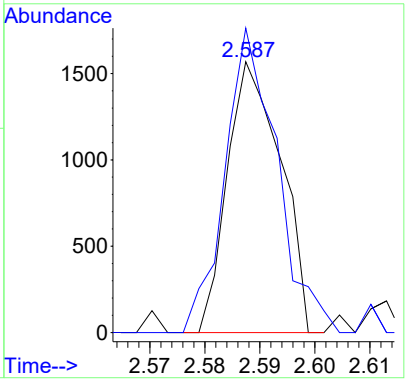


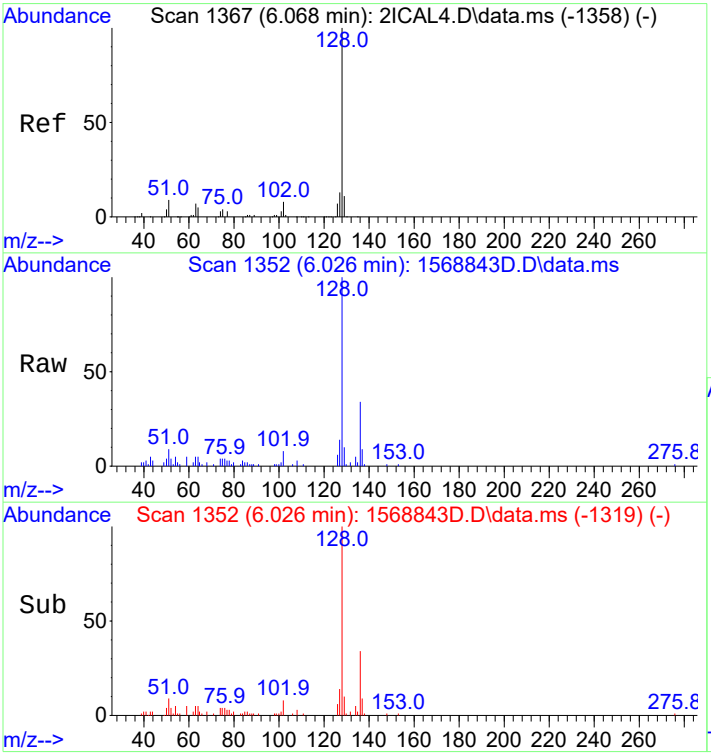



#3
Pyridine
Concen: 0.10 ug/mL
RT: 2.587 min Scan# 142
Delta R.T. 0.293 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion: 79 Resp: 1055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 112.4 | 62.5 | 122.5 |

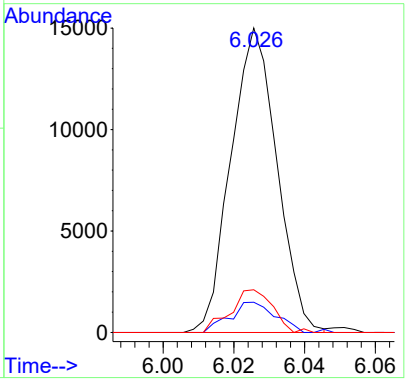


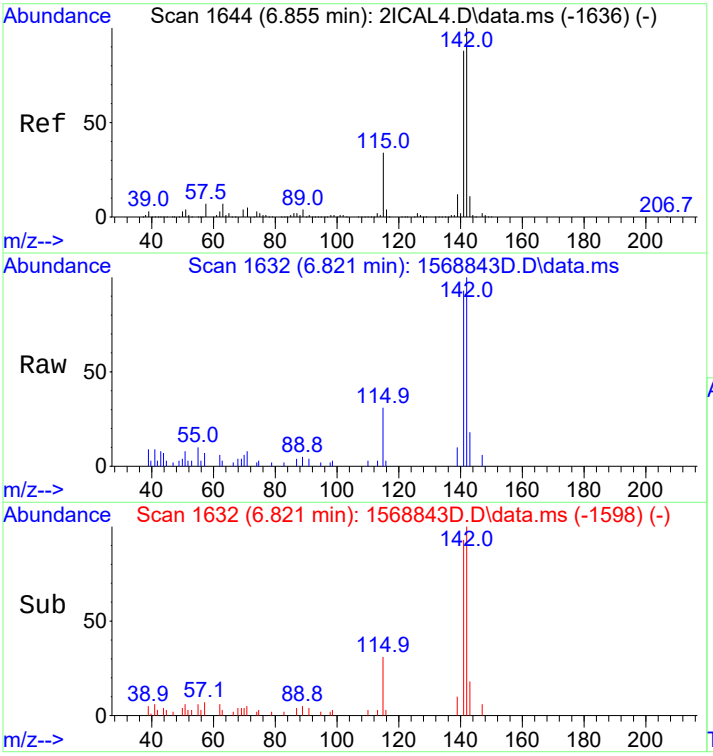




#31
Naphthalene
Concen: 0.39 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.006 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:128 Resp: 13575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.3 | 0.0 | 41.0 |
| 127 | 14.0 | 0.0 | 43.3 |

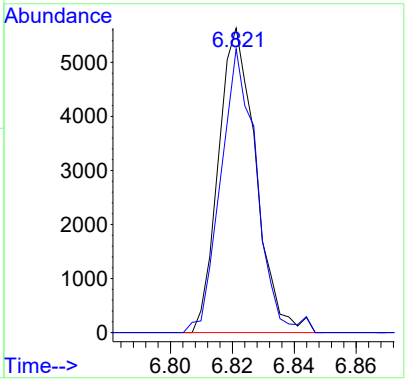


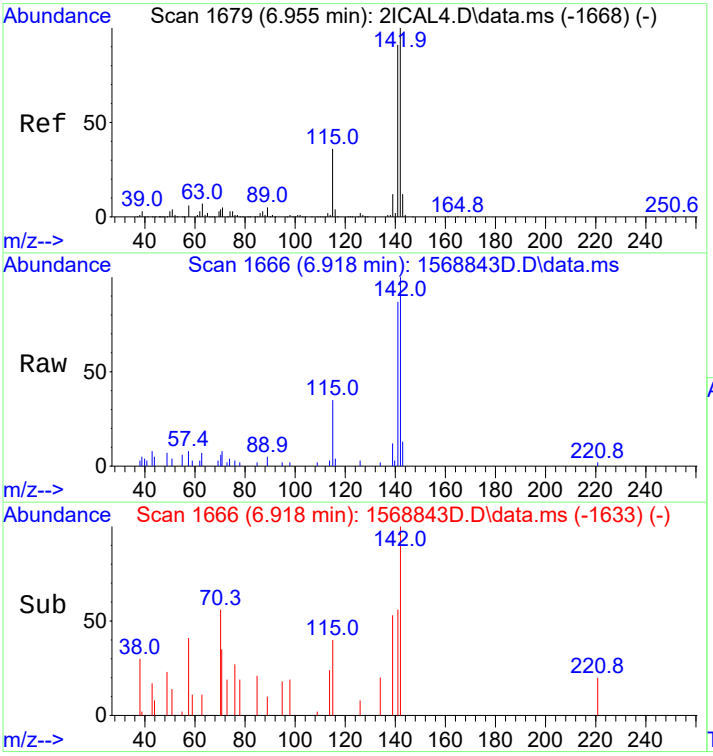



#37
2Methylnaphth
Concen: 0.23 ug/mL
RT: 6.821 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:142 Resp: 4750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.2 | 58.0 | 118.0 |

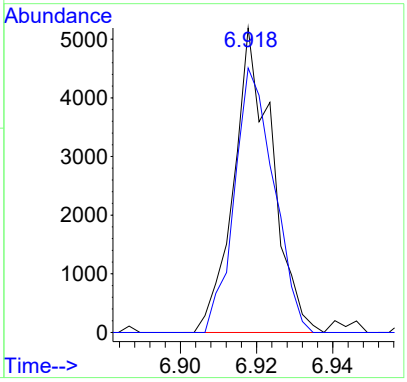


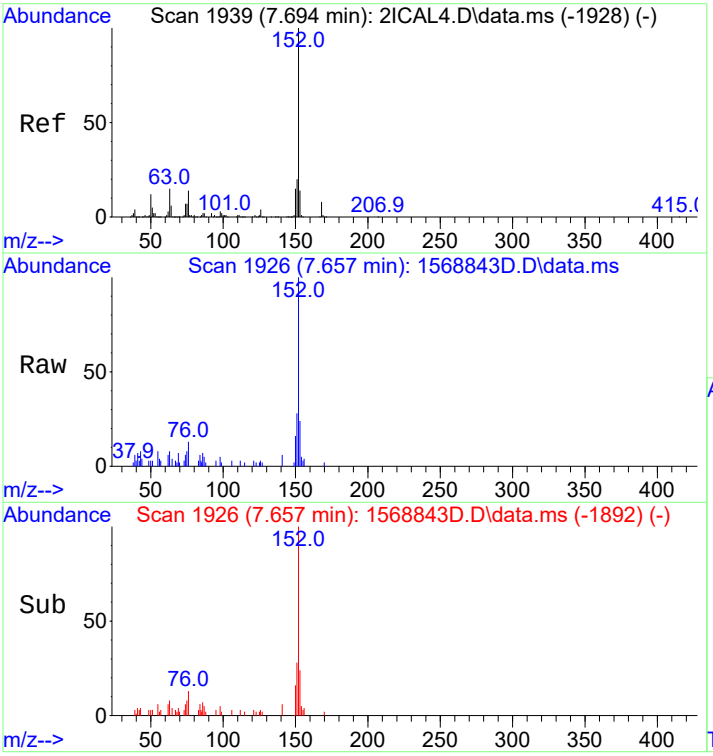




#38
1Methylnaphth
Concen: 0.17 ug/mL
RT: 6.918 min Scan# 1666
Delta R.T. -0.006 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:142 Resp: 3632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.9 | 60.7 | 120.7 |

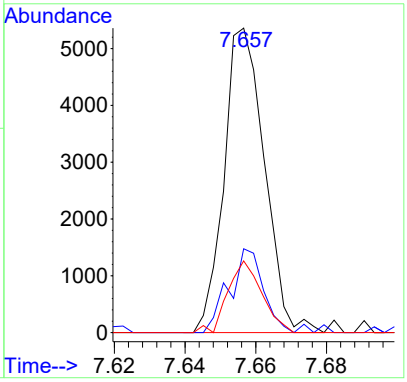


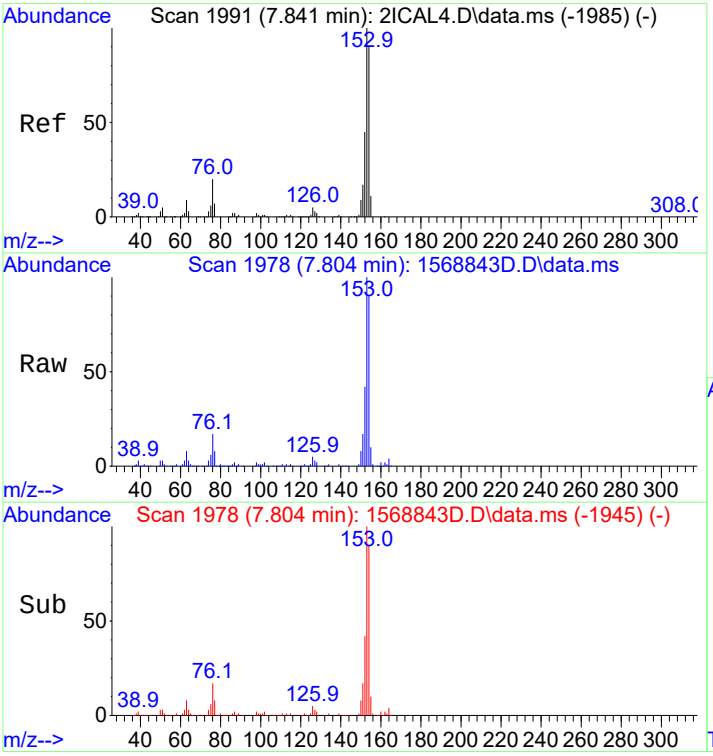



#47
Acnaphthylene
Concen: 0.13 ug/mL
RT: 7.657 min Scan# 1926
Delta R.T. -0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:152 Resp: 4251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 27.5 | 0.0 | 50.3 |
| 153 | 23.5 | 0.0 | 44.4 |

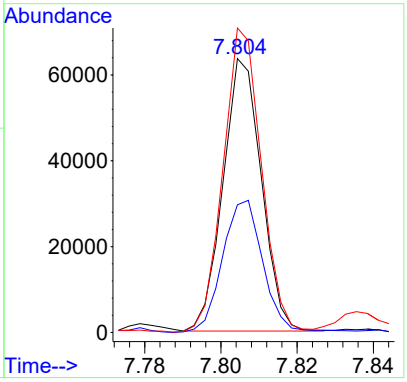


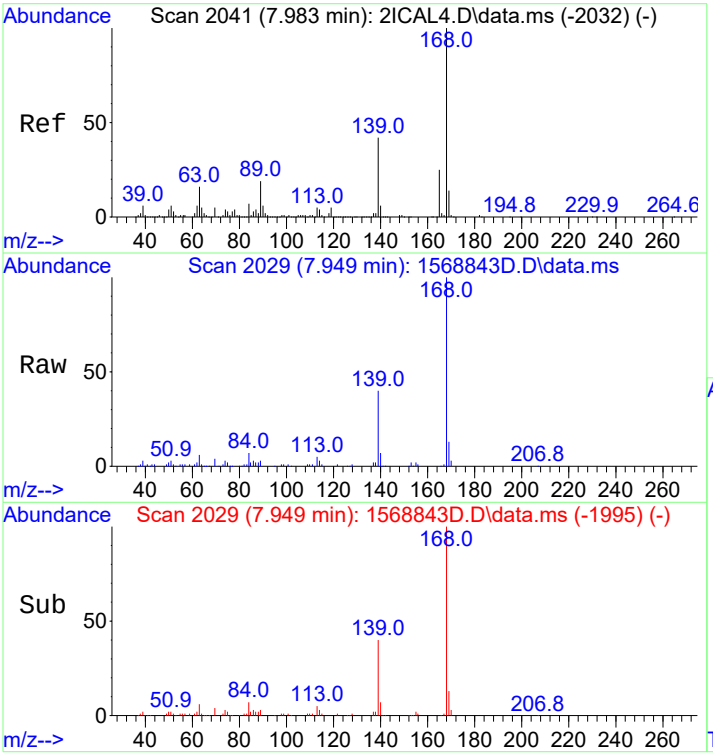




#50
Acenaphthene
Concen: 2.22 ug/mL
RT: 7.804 min Scan# 1978
Delta R.T. -0.006 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:154 Resp: 44484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 46.7 | 20.0 | 80.0 |
| 153 | 111.4 | 80.7 | 140.7 |

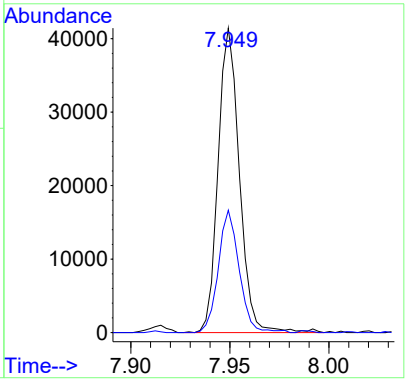


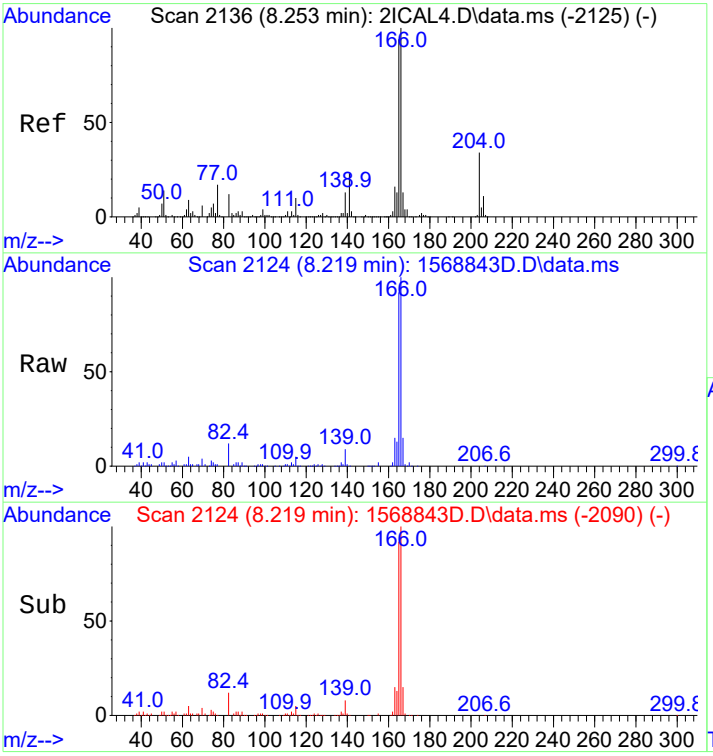



#53
Dibenzofuran
Concen: 1.07 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:168 Resp: 31011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.2 | 11.9 | 71.9 |

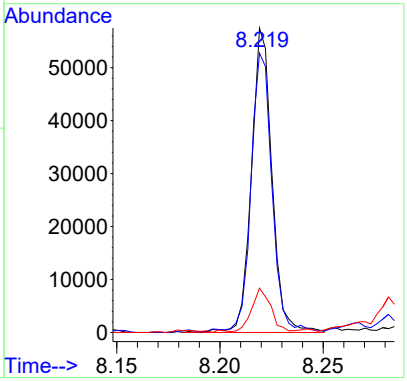


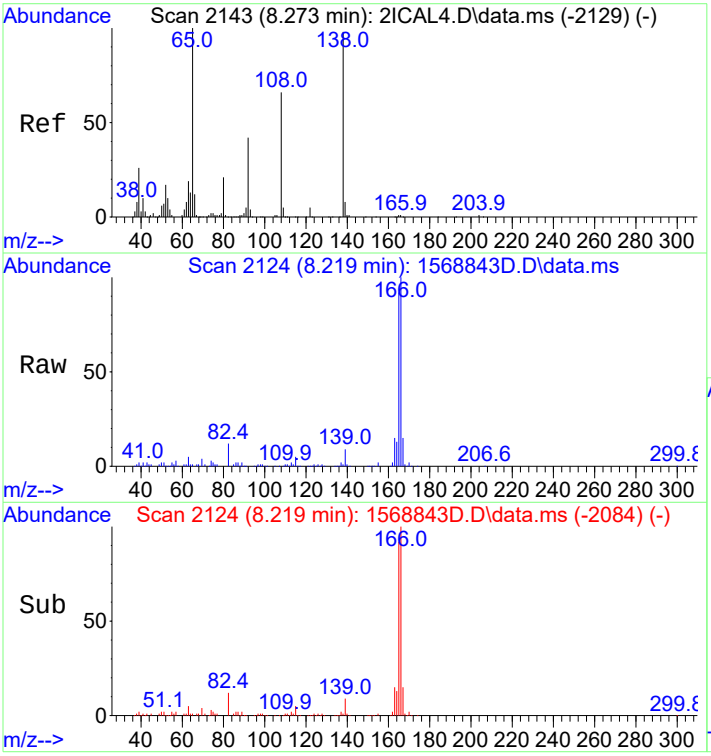




#58
Fluorene
Concen: 1.80 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:166 Resp: 39899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 91.3 | 63.6 | 123.6 |
| 167 | 13.9 | 0.0 | 43.3 |

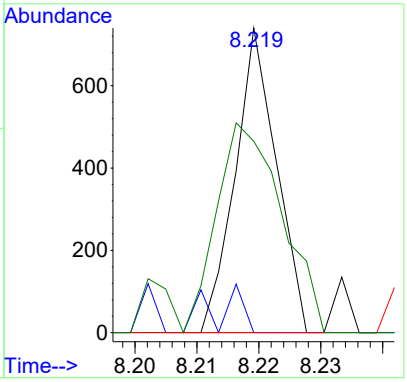


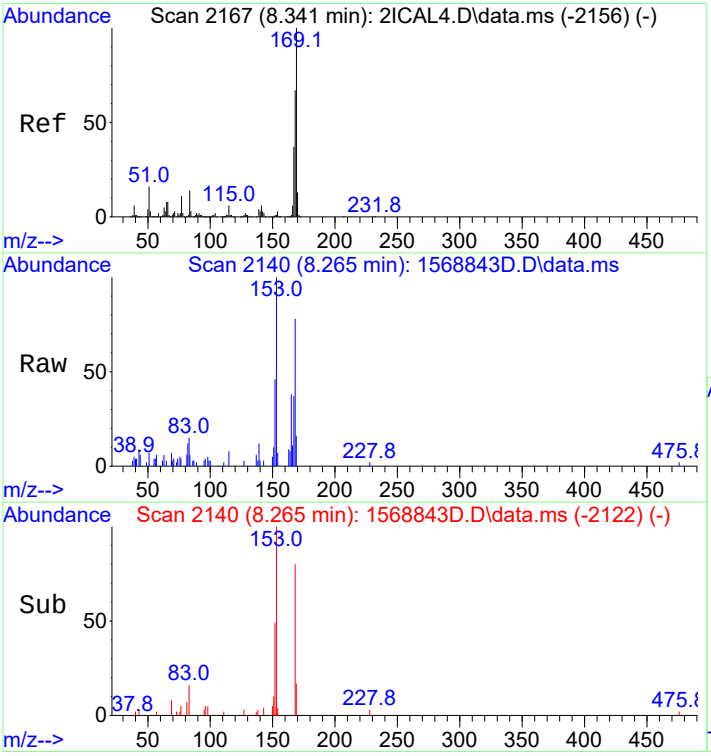



#61
4Nitroaniline
Concen: 0.39 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.026 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:138 Resp: 343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 62.8 | 71.1 | 131.1# |

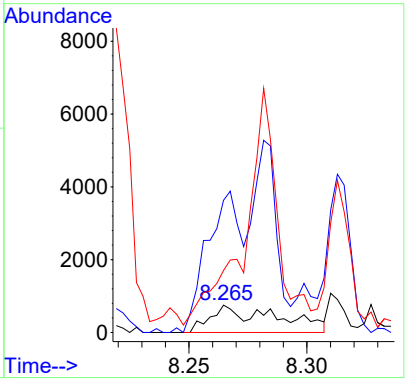


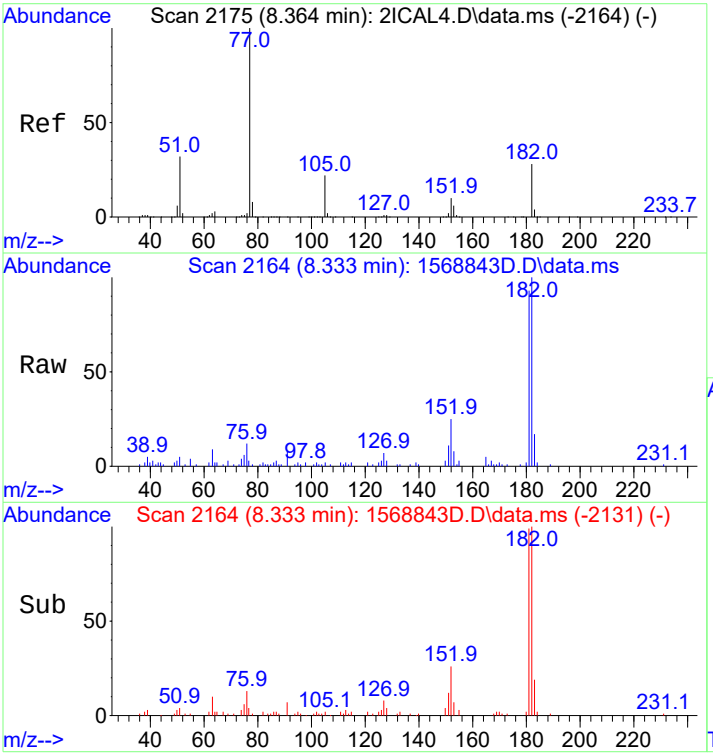




#65
Ntrsdiphlam&Diphlam
Concen: 0.09 ug/mL
RT: 8.265 min Scan# 2140
Delta R.T. -0.048 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:169 Resp: 1452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 481.9 | 37.2 | 97.2# |
| 167 | 198.8 | 6.9 | 66.9# |

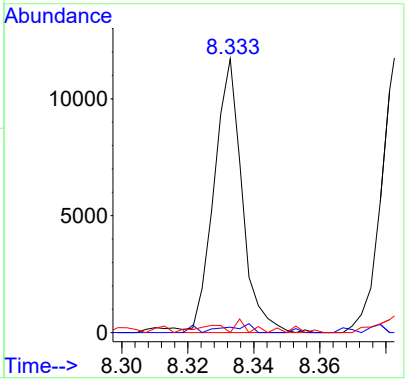


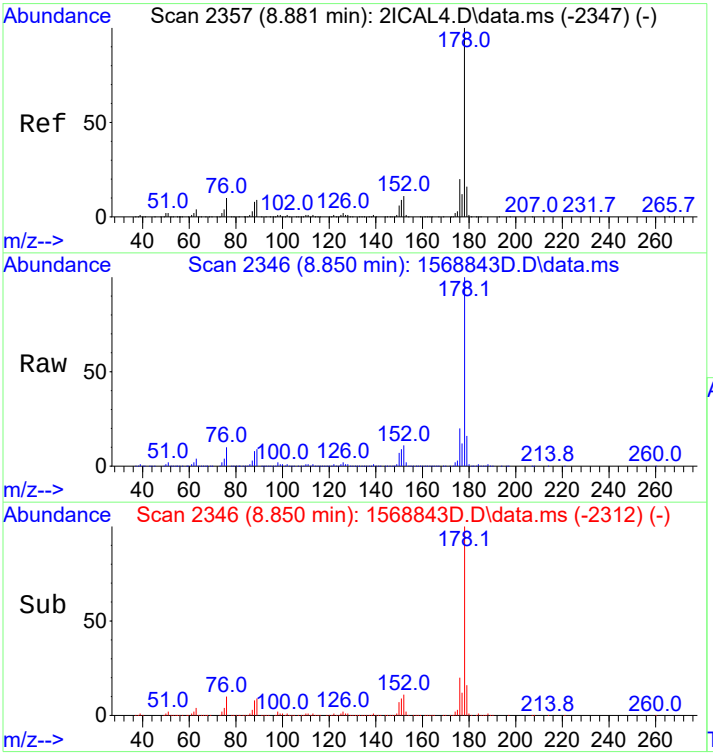



#66
Azobenz&12Diphlhyd
Concen: 1.21 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:182 Resp: 6881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 2.0 | 49.9 | 109.9# |
| 77 | 0.0 | 339.9 | 399.9# |

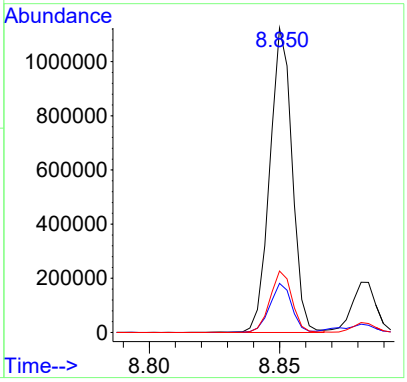


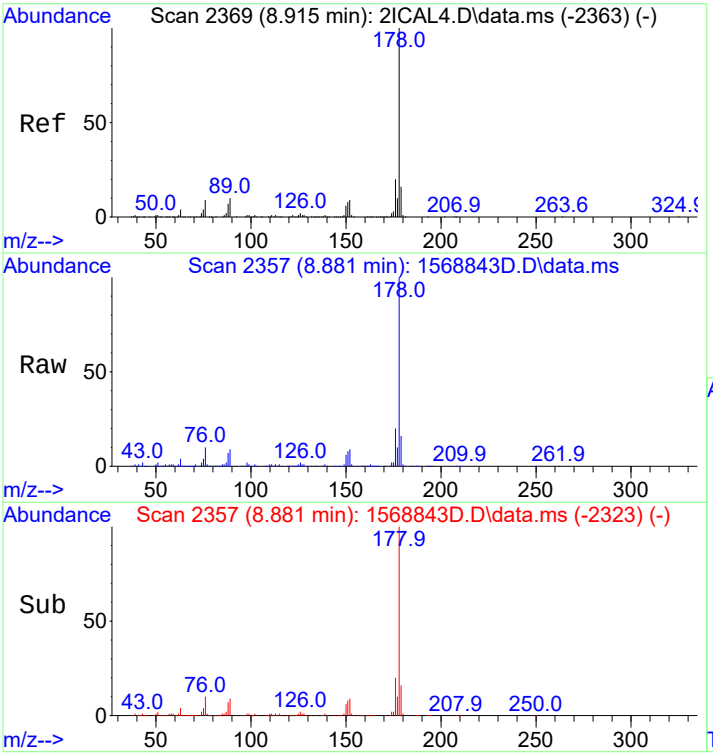




#70
Phenanthrene
Concen: 22.17 ug/mL
RT: 8.850 min Scan# 2346
Delta R.T. -0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:178 Resp: 669349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.1 | 0.0 | 45.9 |
| 176 | 20.2 | 0.0 | 50.4 |

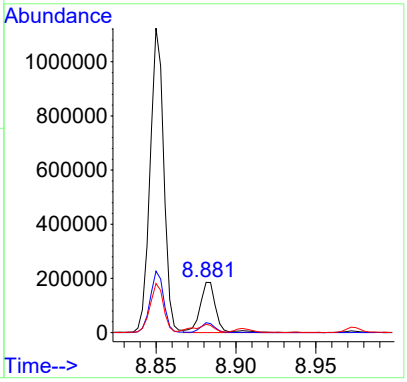


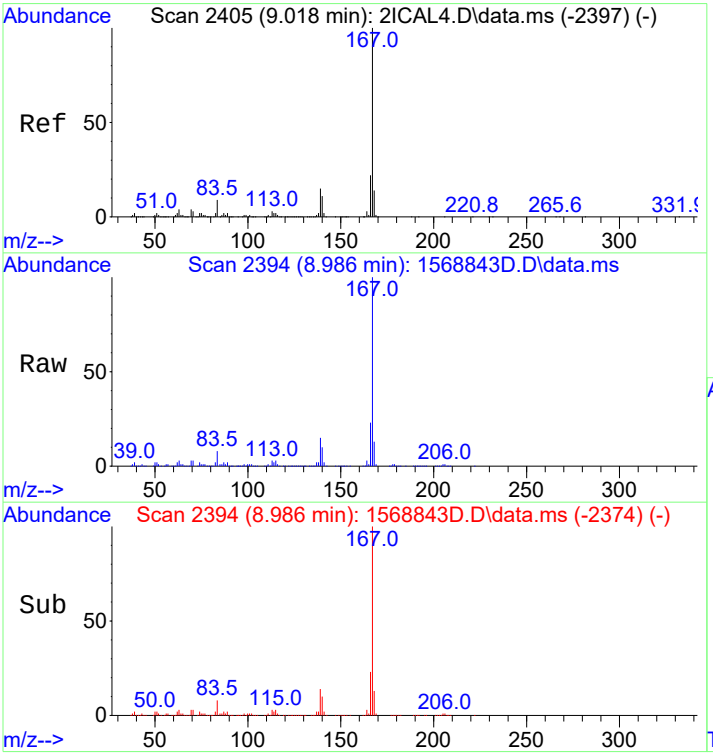



#71
Anthracene
Concen: 4.19 ug/mL
RT: 8.881 min Scan# 2357
Delta R.T. -0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:178 Resp: 128765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 0.0 | 49.5 |
| 179 | 16.3 | 0.0 | 45.9 |

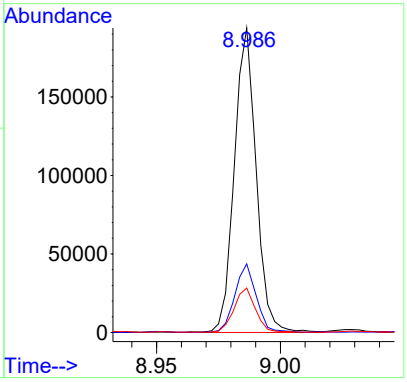


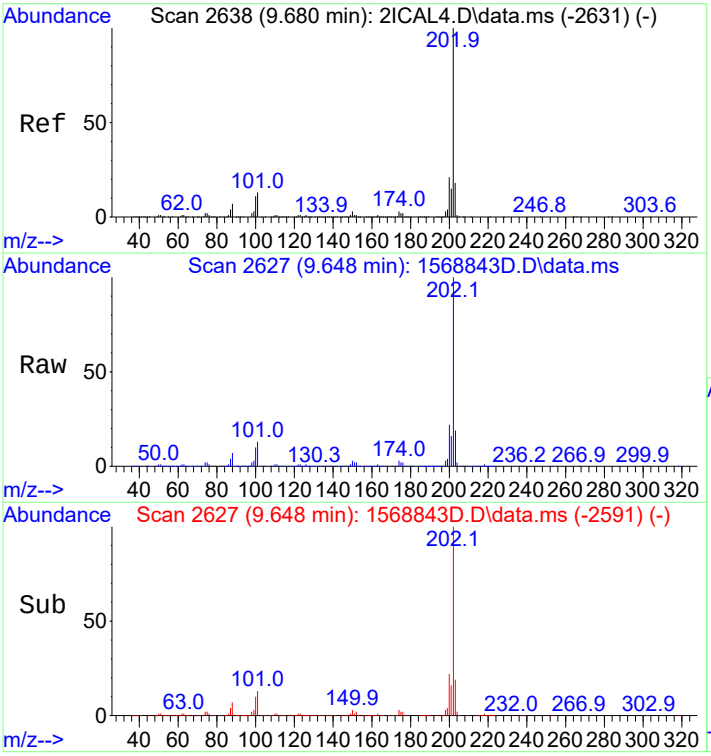




#72
Carbazole
Concen: 4.56 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:167 Resp: 119221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.4 | 0.0 | 52.1 |
| 139 | 14.5 | 0.0 | 44.7 |

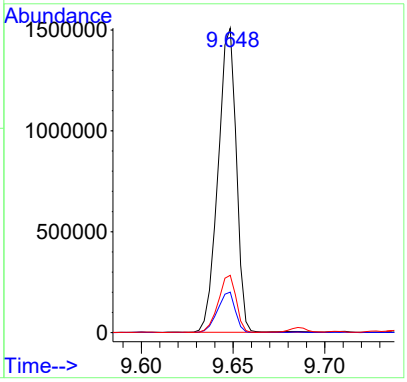


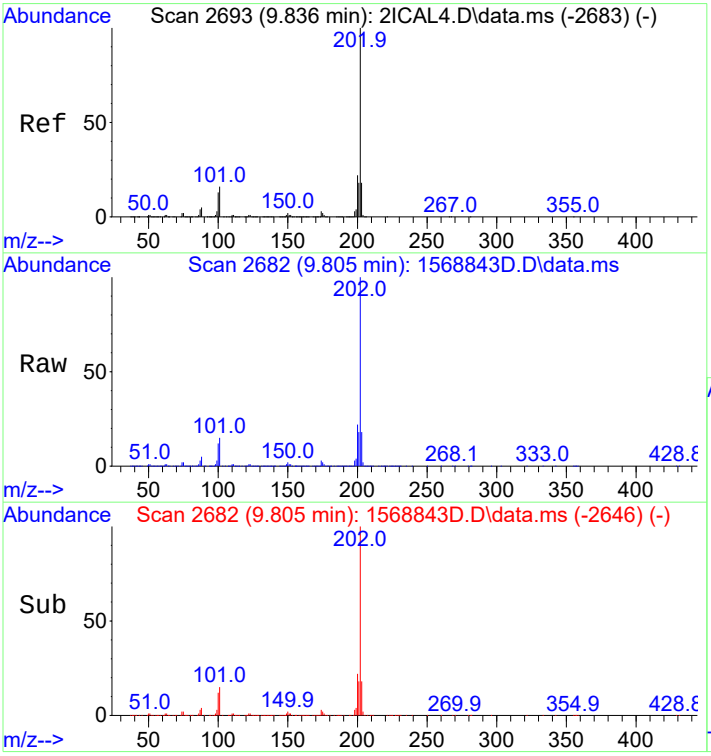



#74
Fluoranthene
Concen: 32.78 ug/mL
RT: 9.648 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:202 Resp: 1044813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.3 | 0.0 | 43.0 |
| 203 | 18.7 | 0.0 | 48.2 |

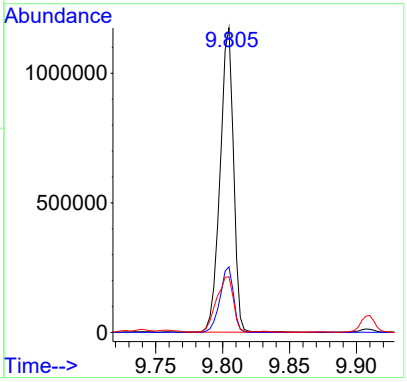


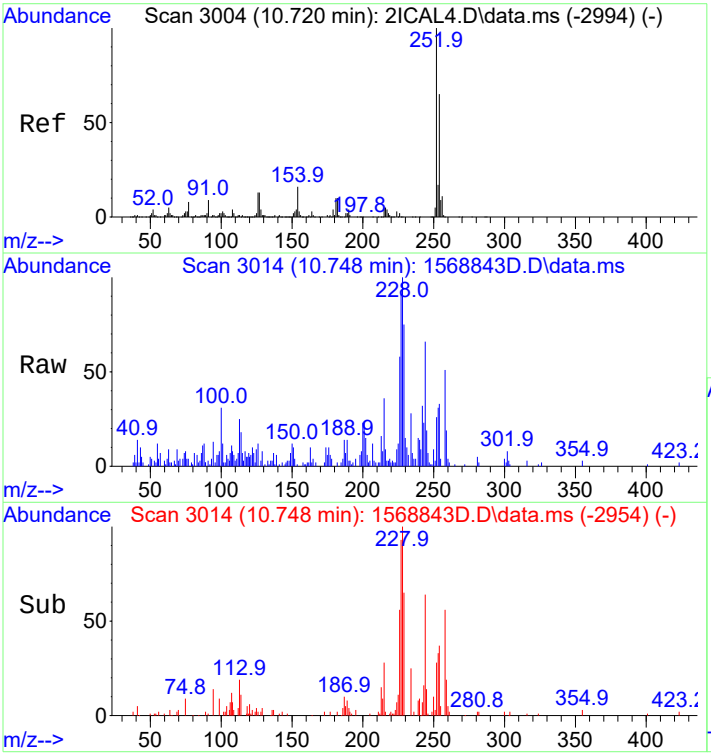




#77
Pyrene
Concen: 23.73 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:202 Resp: 818389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.5 | 0.0 | 52.2 |
| 203 | 18.1 | 0.0 | 48.2 |

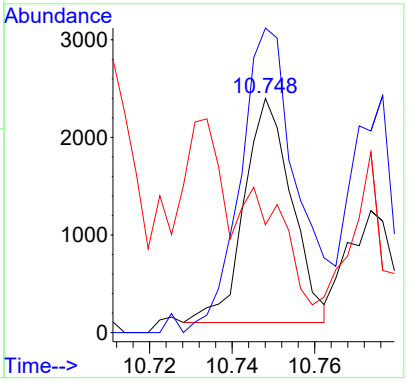


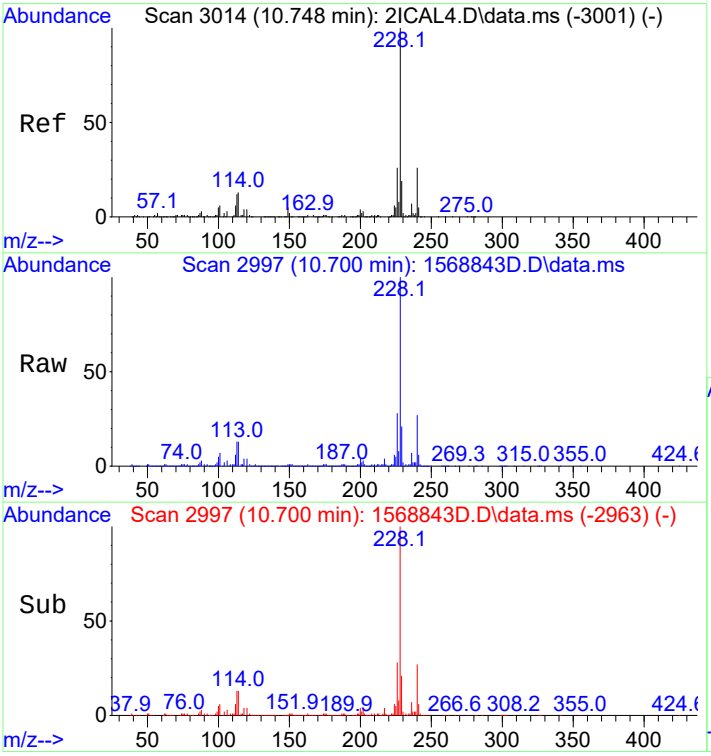



#81
33Diclbnzidin
Concen: Below Cal
RT: 10.748 min Scan# 3014
Delta R.T. 0.071 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:252 Resp: 1838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 135.8 | 34.6 | 94.6# |
| 126 | 32.2 | 0.0 | 42.6 |

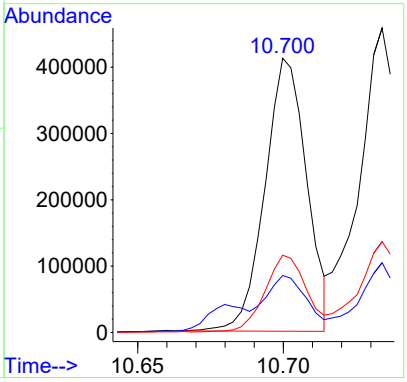


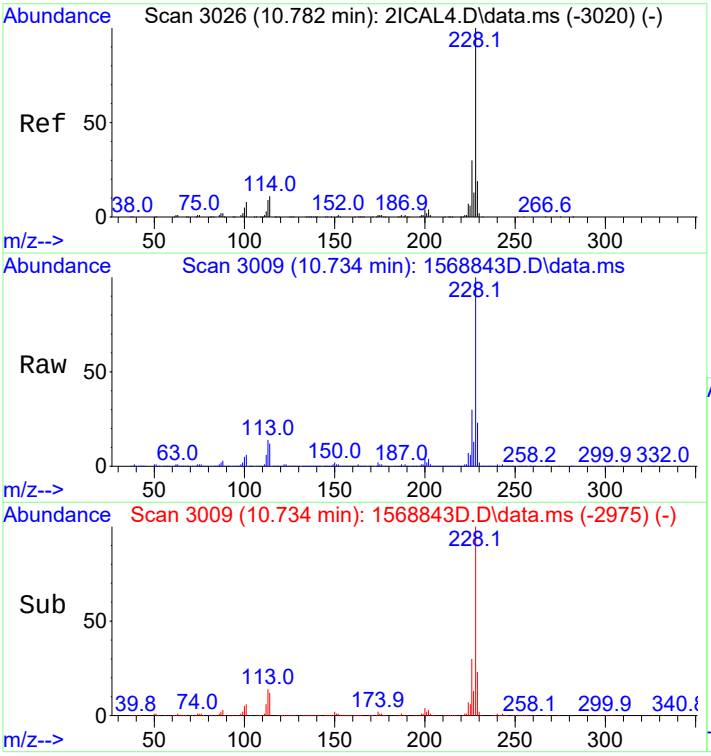




#82
B[a]anthracen
Concen: 12.52 ug/mL
RT: 10.700 min Scan# 2997
Delta R.T. -0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:228 Resp: 409467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.1 | 0.0 | 49.4 |
| 226 | 28.0 | 0.0 | 56.5 |

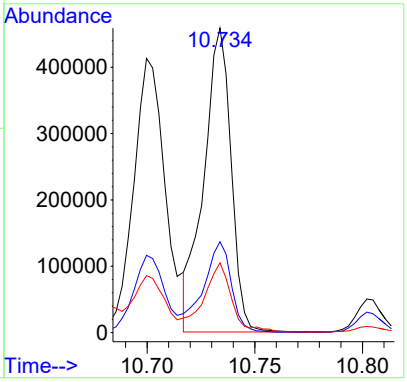


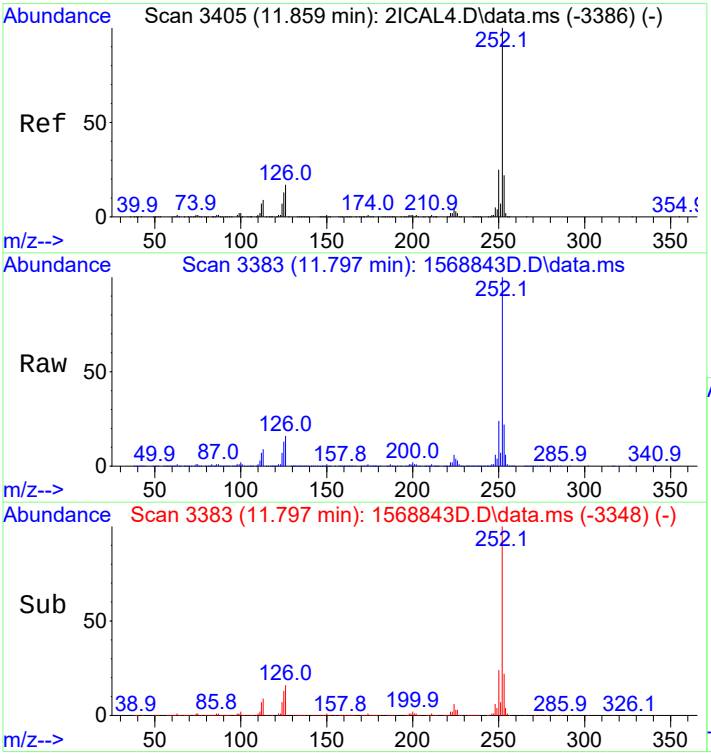



#83
Chrysene
Concen: 13.22 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:228 Resp: 405371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.8 | 0.0 | 59.9 |
| 229 | 22.7 | 0.0 | 49.5 |

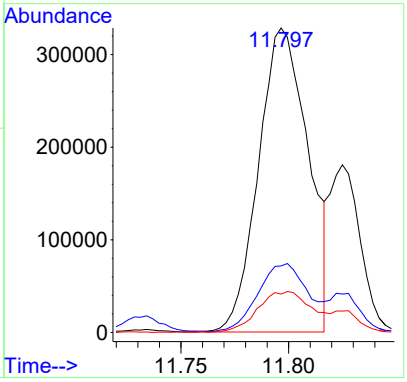


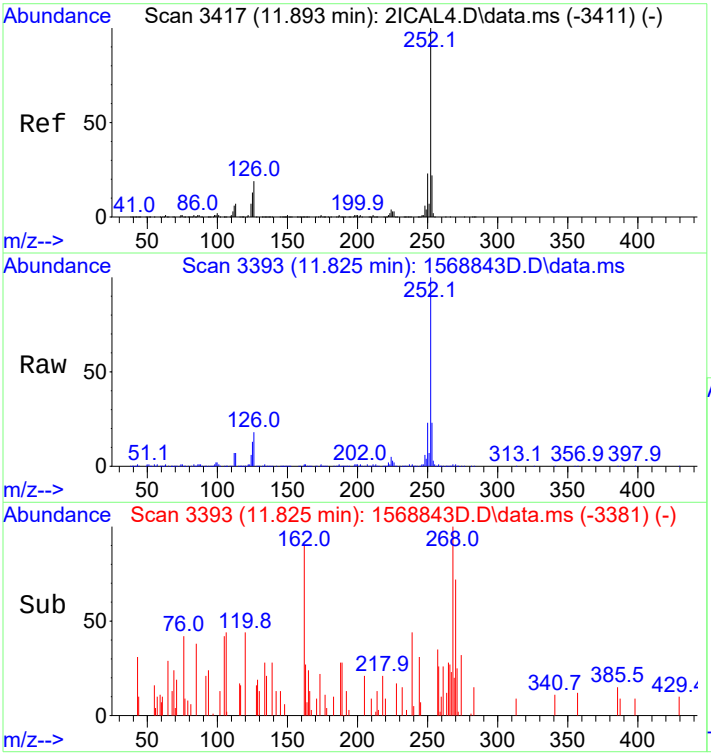




#87
B[b]fluoranth
Concen: 18.79 ug/mL
RT: 11.797 min Scan# 3383
Delta R.T. -0.000 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:252 Resp: 528427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.3 | 0.0 | 52.3 |
| 125 | 12.5 | 0.0 | 43.2 |

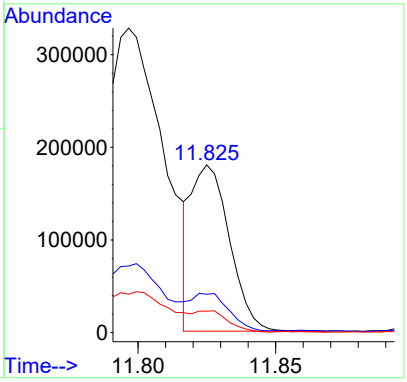


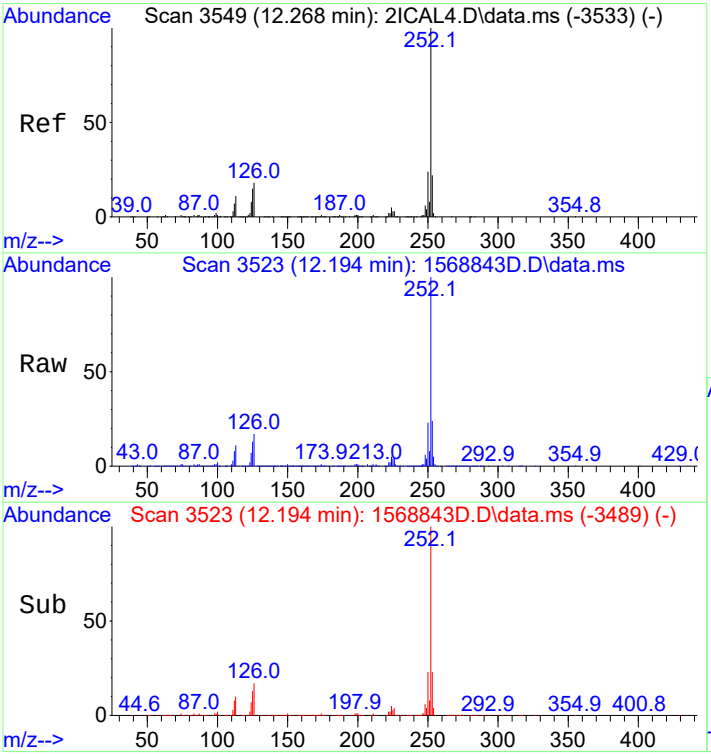



#88
B[k]fluoranth
Concen: 6.15 ug/mL
RT: 11.825 min Scan# 3393
Delta R.T. -0.006 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:252 Resp: 173336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 0.0 | 52.0 |
| 125 | 12.7 | 0.0 | 43.3 |

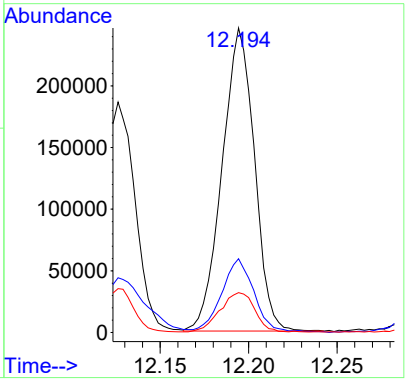


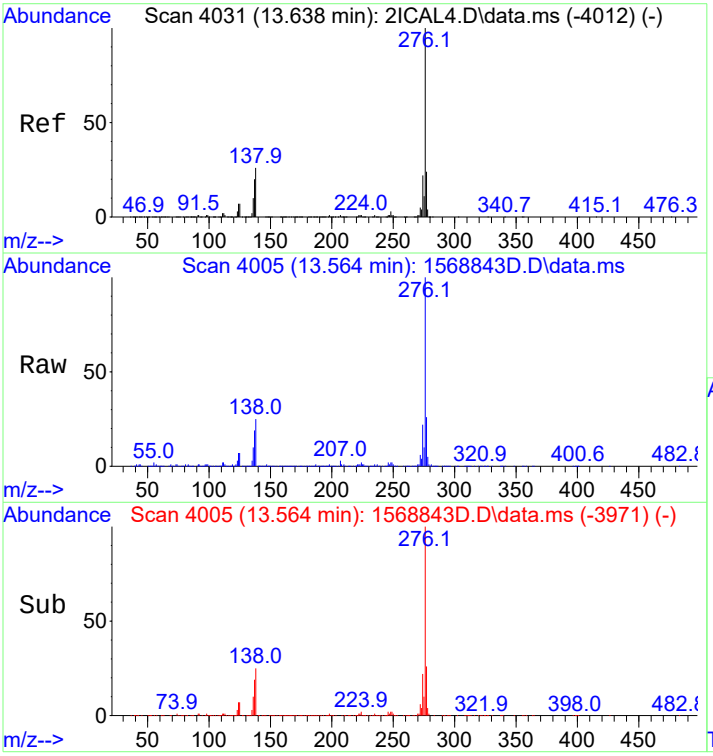




#89
Benz[a]pyrene
Concen: 12.09 ug/mL
RT: 12.194 min Scan# 3523
Delta R.T. -0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:252 Resp: 312838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.1 | 0.0 | 52.3 |
| 125 | 12.7 | 0.0 | 45.1 |

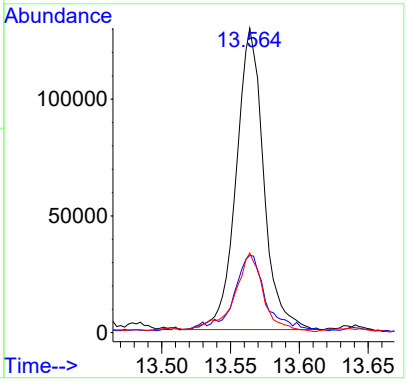


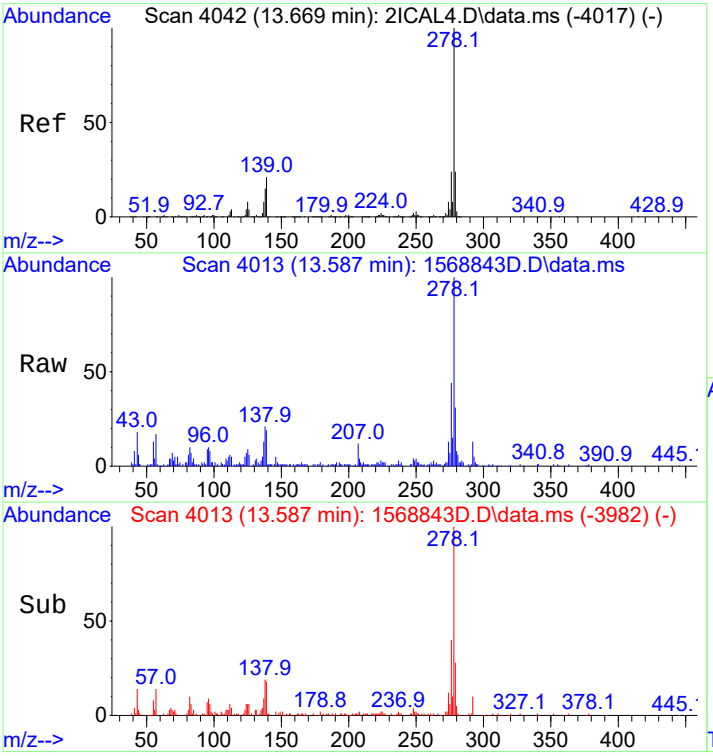



#90
Indeno-pyrene
Concen: 6.27 ug/mL
RT: 13.564 min Scan# 4005
Delta R.T. -0.003 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:276 Resp: 179402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.6 | 0.0 | 55.5 |
| 277 | 25.6 | 0.0 | 54.0 |

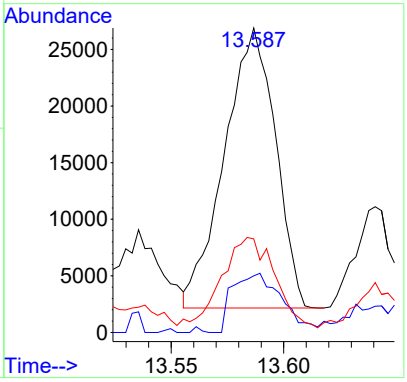


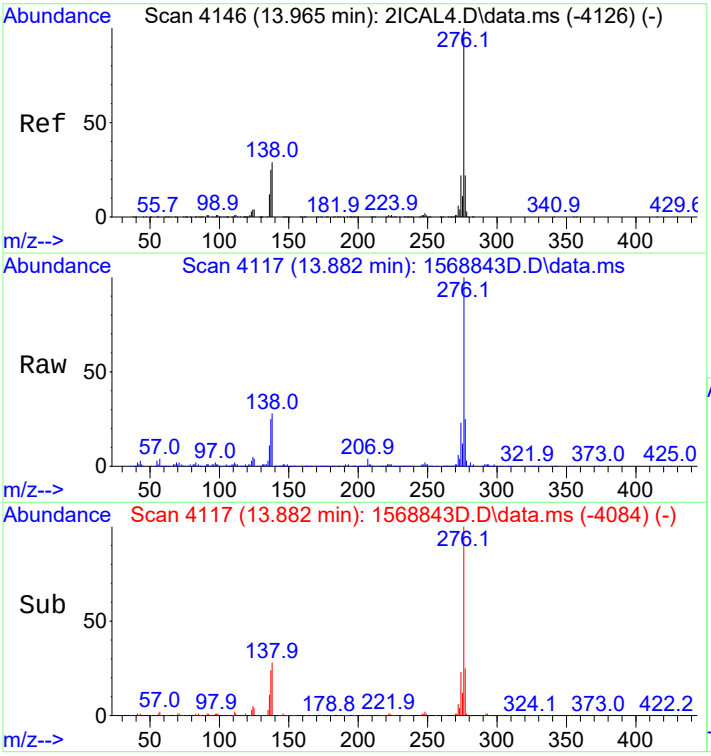




#91
Dib[ah]anthr
Concen: 1.67 ug/mL
RT: 13.587 min Scan# 4013
Delta R.T. -0.011 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:278 Resp: 38975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.2 | 0.0 | 50.9 |
| 279 | 29.9 | 0.0 | 54.4 |

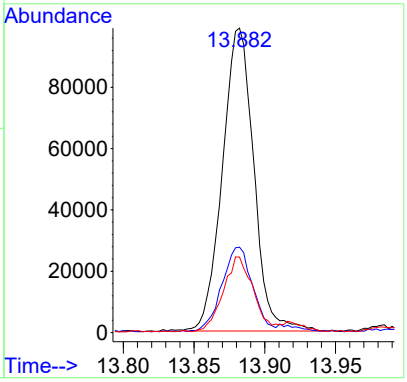





#92
B[ghi]perylen
Concen: 6.81 ug/mL
RT: 13.882 min Scan# 4117
Delta R.T. -0.006 min
Lab File: 1568843D.D
Acq: 11 Apr 2025 15:18

Tgt Ion:276 Resp: 152652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.5 | 0.0 | 59.0 |
| 277 | 24.5 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568845D.D Vial: 14
Acq On : 11 Apr 2025 16:04 Operator: JJY
Sample : 290730,1568845,2 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:36 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 160181 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 772723 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.779 | 164 | 434574 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 626196 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 561945 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.271 | 264 | 522844 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.085 | 112 | 137064 | 35.54 | %REC | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 35.54% | | | |
| 7) SURRPhenol-d5 | 3.895 | 99 | 176262 | 38.03 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 38.03% | | | |
| 22) SURRNitrbenzened5 | 4.991 | 82 | 73879 | 35.09 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 35.09% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 212675 | 41.02 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 41.02% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 53993 | 46.42 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 46.42% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 250932 | 45.79 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 45.79% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Pyridine | 2.593 | 79 | 4517 | 0.4076 | ug/mL | 80 |
| 8) Phenol | 3.909 | 94 | 1925 | 0.1621 | ug/mL | 85 |
| 13) Benzyl alcoho | 4.471 | 108 | 626 | 0.0909 | ug/mL# | 44 |
| 14) bis2clispreth | 4.616 | 45 | 1489 | 0.0808 | ug/mL | 89 |
| 26) 24Dimthpheno | 5.653 | 122 | 3991 | 0.3843 | ug/mL# | 5 |
| 30) Benzoic acid | 5.653 | 122 | 4707 | 3.6556 | ug/mL | 90 |
| 31) Naphthalene | 6.026 | 128 | 12650 | 0.3550 | ug/mL | 94 |
| 37) 2Methylnaphth | 6.821 | 142 | 4789 | 0.2223 | ug/mL | 83 |
| 38) 1Methylnaphth | 6.921 | 142 | 3776 | 0.1695 | ug/mL | 99 |
| 46) 2Nitroaniline | 7.330 | 65 | 4179 | 0.8884 | ug/mL# | 15 |
| 47) Acnaphthylene | 7.657 | 152 | 4353 | 0.1238 | ug/mL | 94 |
| 50) Acenaphthene | 7.807 | 154 | 54255 | 2.5956 | ug/mL | 97 |
| 51) 3Nitroaniline | 7.773 | 138 | 5568 | 1.1348 | ug/mL# | 21 |
| 53) Dibenzofuran | 7.949 | 168 | 31029 | 1.0280 | ug/mL | 99 |
| 55) 4-Nitrophenol | 7.901 | 65 | 509 | 1.3719 | ug/mL# | 12 |
| 58) Fluorene | 8.219 | 166 | 46194 | 2.0019 | ug/mL | 96 |
| 61) 4Nitroaniline | 8.219 | 138 | 893 | 0.4850 | ug/mL# | 40 |
| 65) Ntrsdiphlam&Diphlam | 8.285 | 169 | 3291 | 0.2038 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 8875 | 1.5416 | ug/mL# | 1 |
| 70) Phenanthrene | 8.850 | 178 | 766588 | 25.1275 | ug/mL | 99 |
| 71) Anthracene | 8.881 | 178 | 151119 | 4.8686 | ug/mL | 96 |
| 72) Carbazole | 8.986 | 167 | 139177 | 5.2657 | ug/mL | 98 |
| 74) Fluoranthene | 9.649 | 202 | 1262817 | 39.1996 | ug/mL | 99 |
| 77) Pyrene | 9.805 | 202 | 991629 | 27.7816 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.748 | 252 | 1655 | Below Cal | # | 1 |
| 82) B[a]anthracen | 10.703 | 228 | 515618 | 15.2404 | ug/mL | 98 |
| 83) Chrysene | 10.734 | 228 | 516321 | 16.2725 | ug/mL | 97 |
| 84) bis2Ethlhxlph | 10.717 | 149 | 7822 | 0.3038 | ug/mL | 89 |
| 87) B[b]fluoranth | 11.799 | 252 | 670468 | 24.2082 | ug/mL | 100 |
| 88) B[k]fluoranth | 11.828 | 252 | 207527 | 7.4787 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.197 | 252 | 390037 | 15.3134 | ug/mL | 96 |
| 90) Indeno-pyrene | 13.570 | 276 | 202993 | 7.2057 | ug/mL | 97 |
| 91) Dib[ah]anthr | 13.590 | 278 | 45273 | 1.9660 | ug/mL | 94 |
| 92) B[ghi]perylen | 13.888 | 276 | 161499 | 7.3171 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568845D.D Vial: 14
Acq On : 11 Apr 2025 16:04 Operator: JJY
Sample : 290730,1568845,2 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:36 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

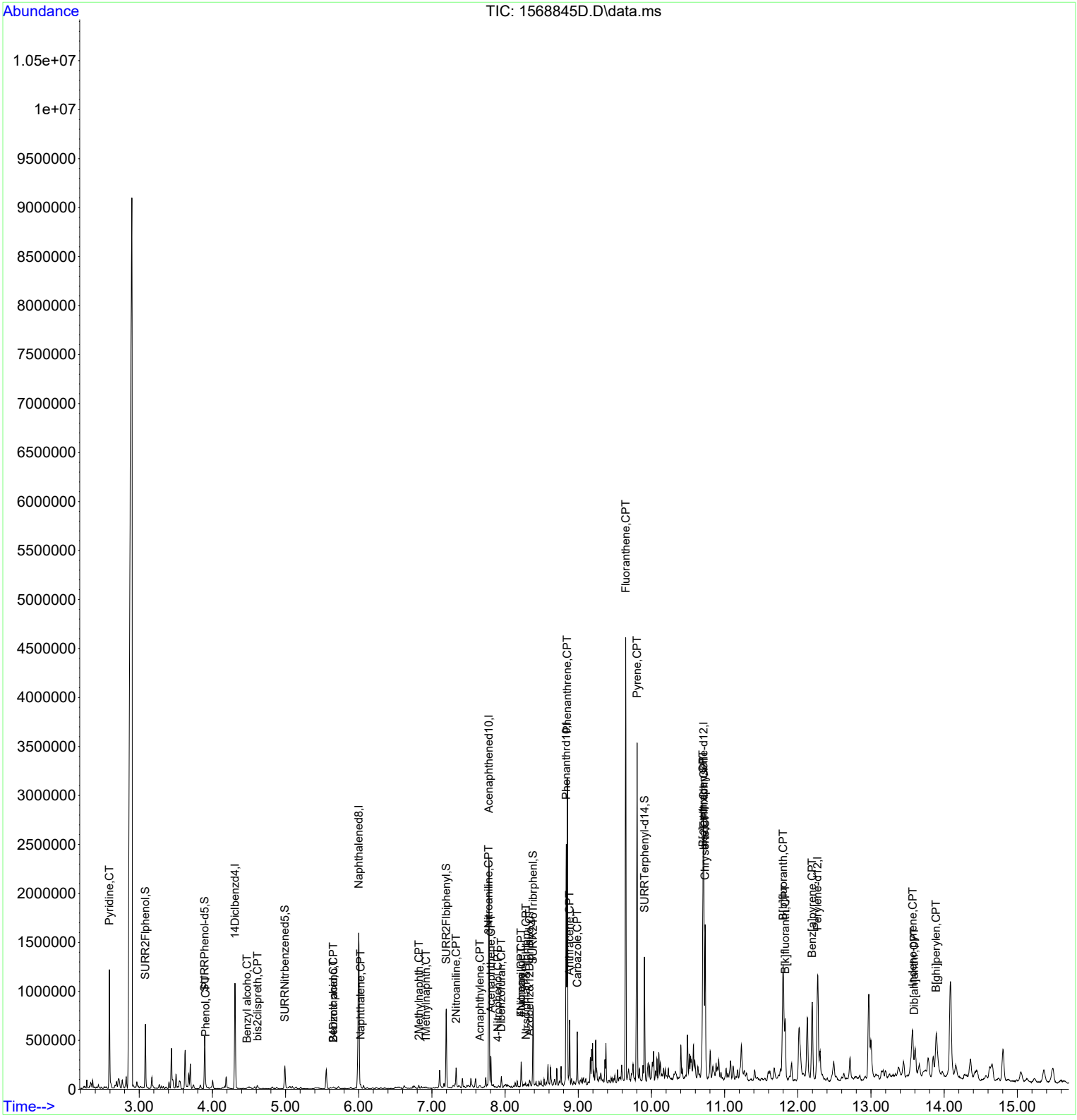
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

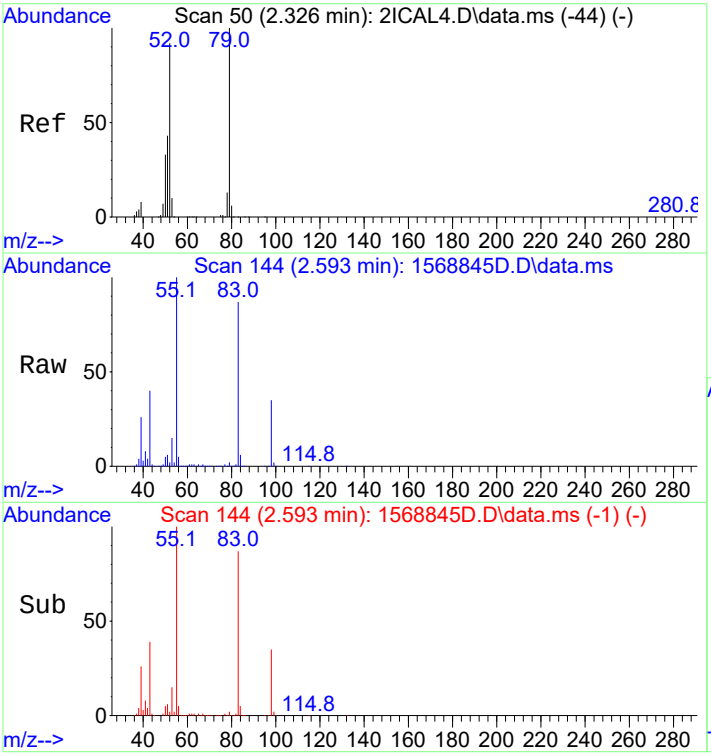
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568845D.D Vial: 14
Acq On : 11 Apr 2025 16:04 Operator: JJY
Sample : 290730,1568845,2 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:36 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

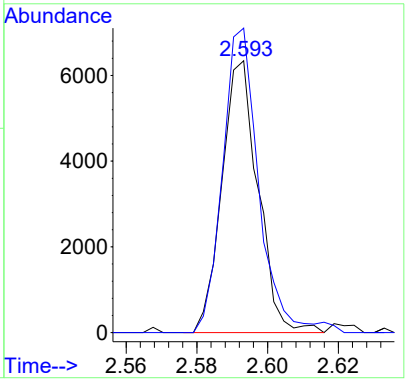


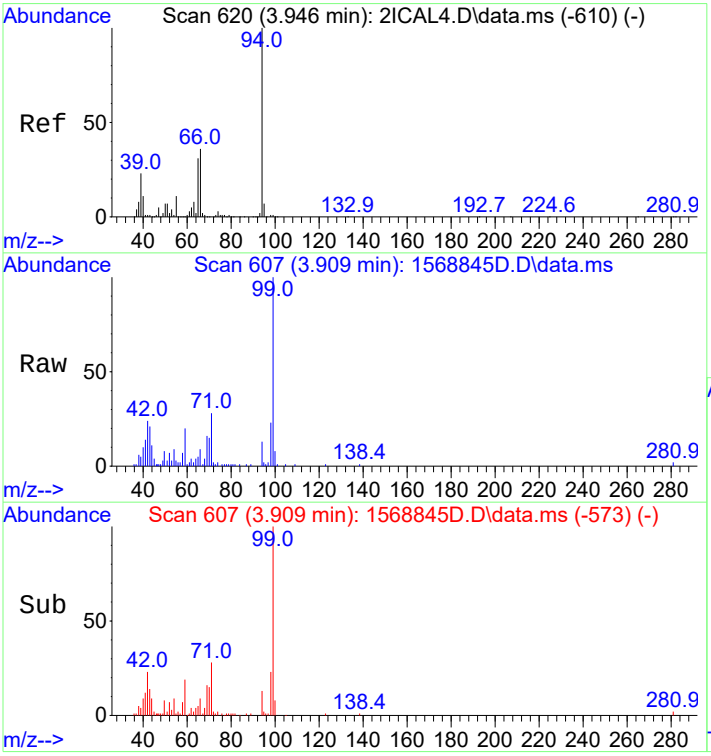



#3
Pyridine
Concen: 0.41 ug/mL
RT: 2.593 min Scan# 144
Delta R.T. 0.298 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion: 79 Resp: 4517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 112.0 | 62.5 | 122.5 |

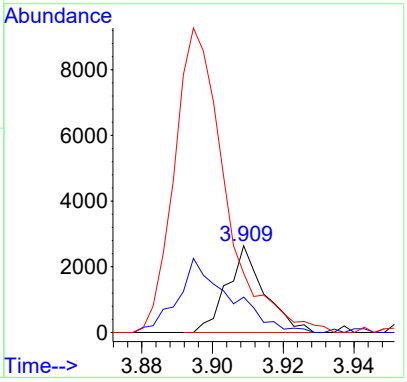


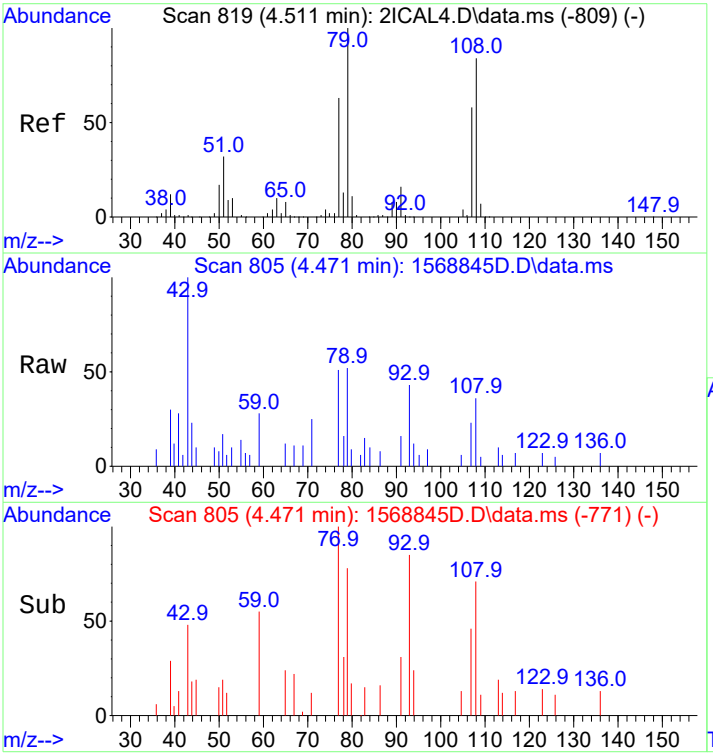




#8
Phenol
Concen: 0.16 ug/mL
RT: 3.909 min Scan# 607
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion: 94 Resp: 1925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 35.7 | 0.7 | 60.7 |
| 66 | 47.8 | 6.4 | 66.4 |

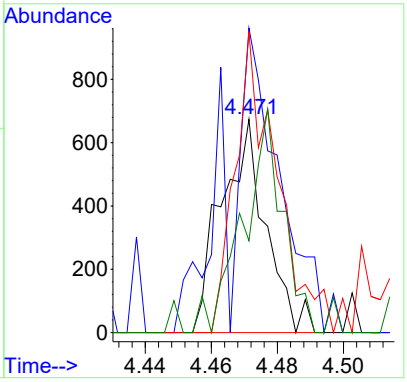


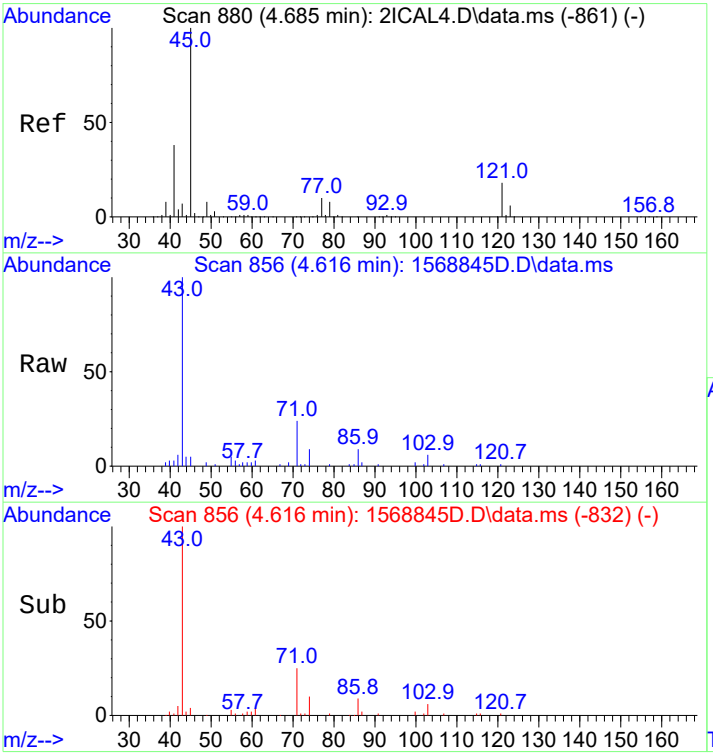



#13
Benzyl alcoho
Concen: 0.09 ug/mL
RT: 4.471 min Scan# 805
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:108 Resp: 626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 79 | 167.1 | 89.6 | 149.6# |
| 77 | 140.9 | 44.8 | 104.8# |
| 91 | 43.0 | 0.0 | 49.0 |

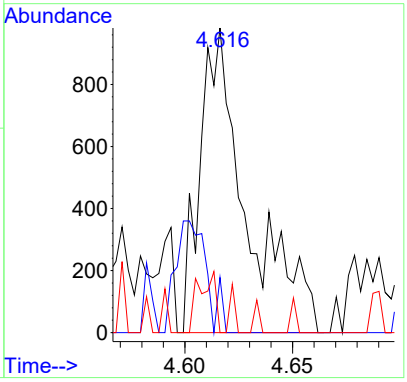


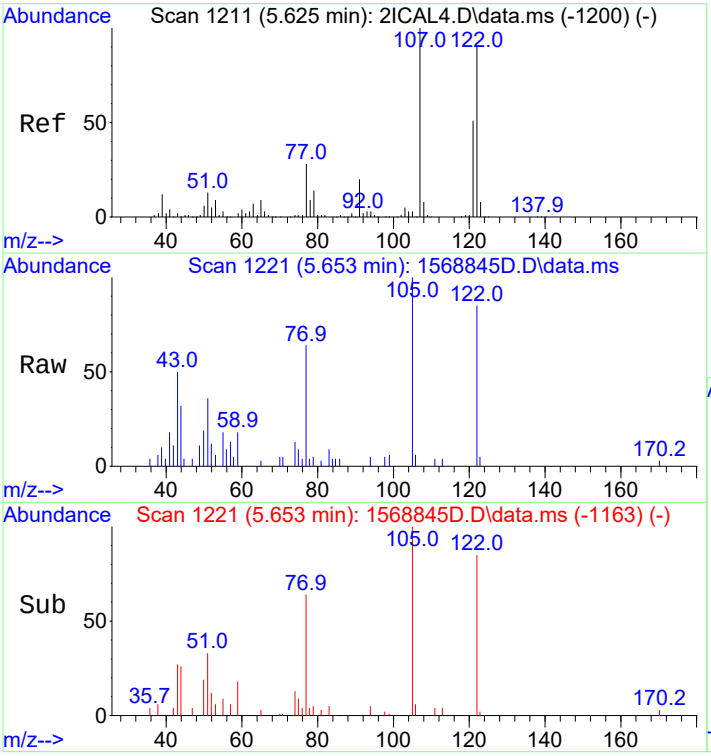




#14
bis2clispreth
Concen: 0.08 ug/mL
RT: 4.616 min Scan# 856
Delta R.T. -0.031 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion: 45 Resp: 1489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 121 | 18.1 | 0.0 | 47.5 |
| 77 | 0.0 | 0.0 | 40.1 |

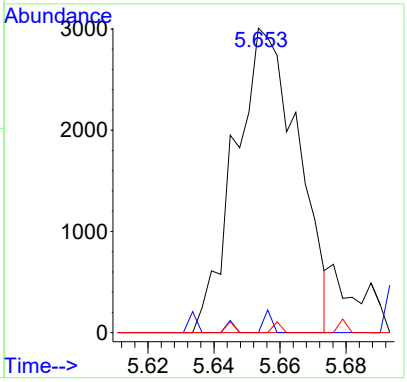


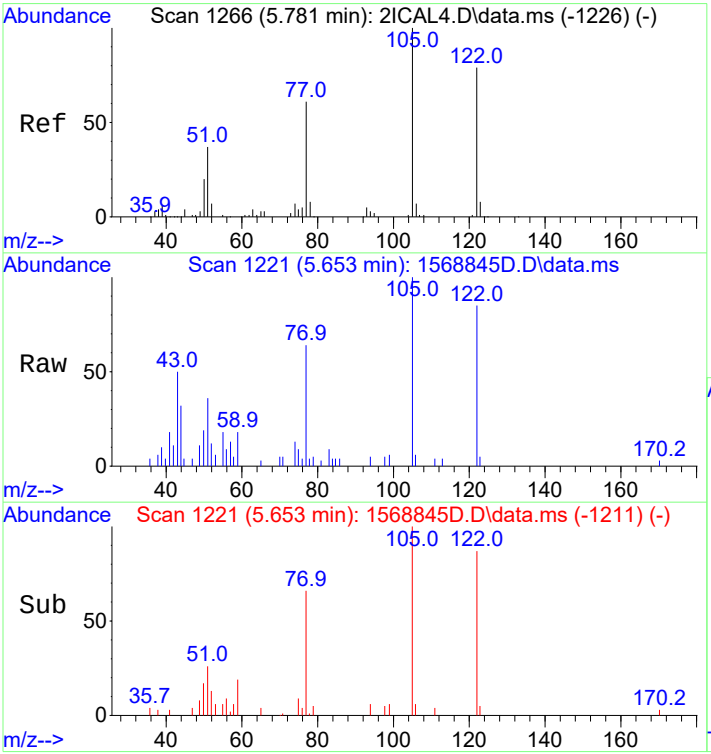



#26
24Dimthpheno
Concen: 0.38 ug/mL
RT: 5.653 min Scan# 1221
Delta R.T. 0.065 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:122 Resp: 3991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 0.0 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

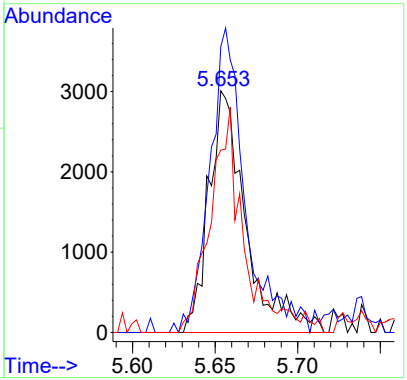


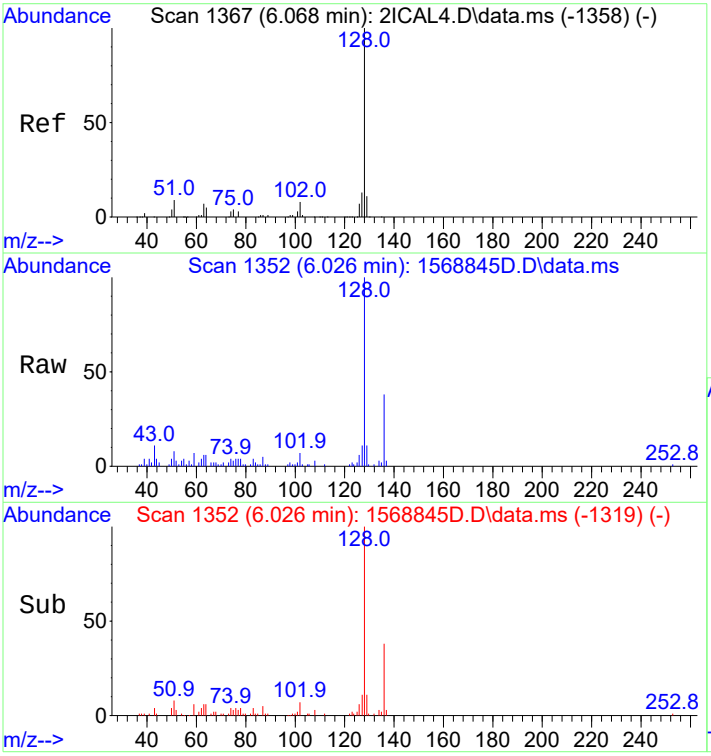




#30
Benzoic acid
Concen: 3.66 ug/mL
RT: 5.653 min Scan# 1221
Delta R.T. -0.102 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:122 Resp: 4707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 111.1 | 96.0 | 156.0 |
| 77 | 80.7 | 46.6 | 106.6 |

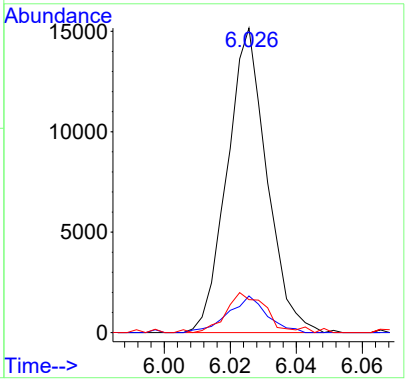


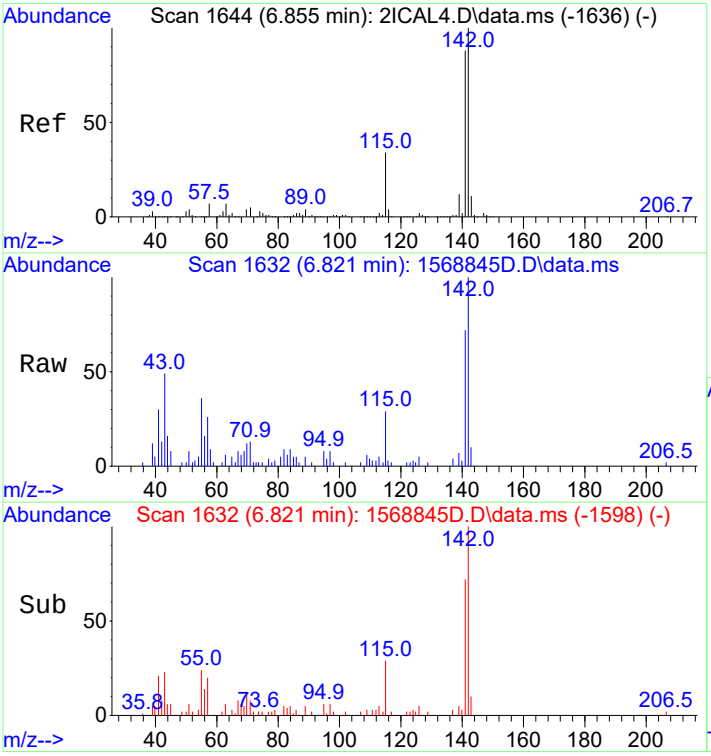



#31
Naphthalene
Concen: 0.35 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.006 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:128 Resp: 12650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.1 | 0.0 | 41.0 |
| 127 | 9.9 | 0.0 | 43.3 |

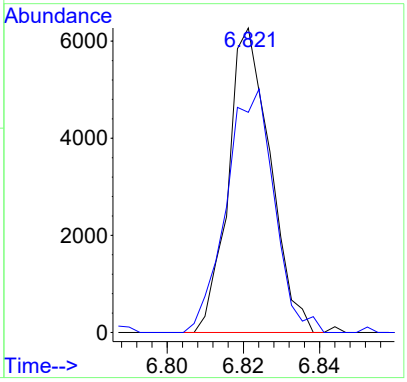


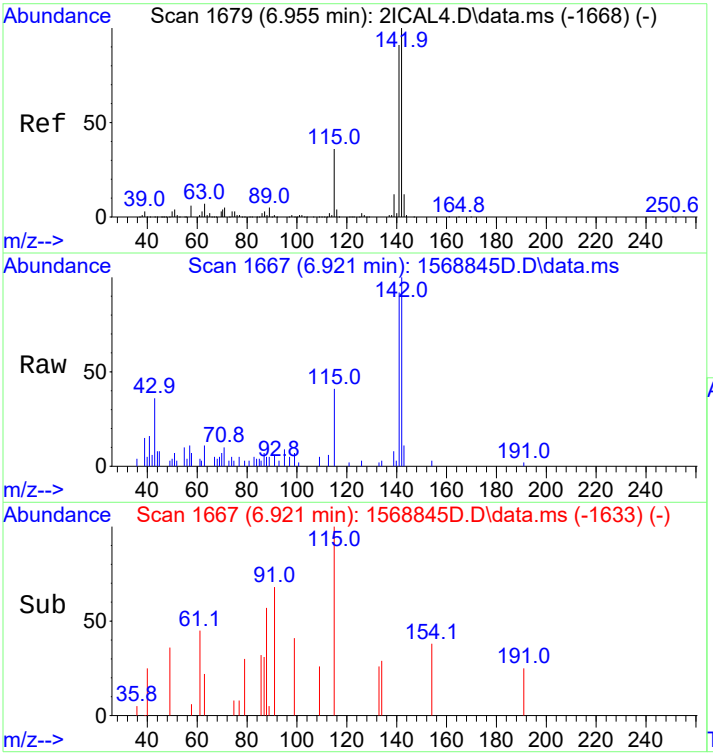




#37
2Methylnaphth
Concen: 0.22 ug/mL
RT: 6.821 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:142 Resp: 4789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 72.3 | 58.0 | 118.0 |

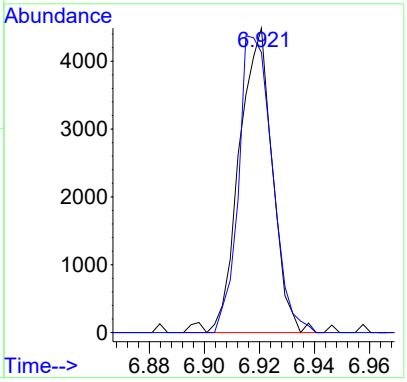


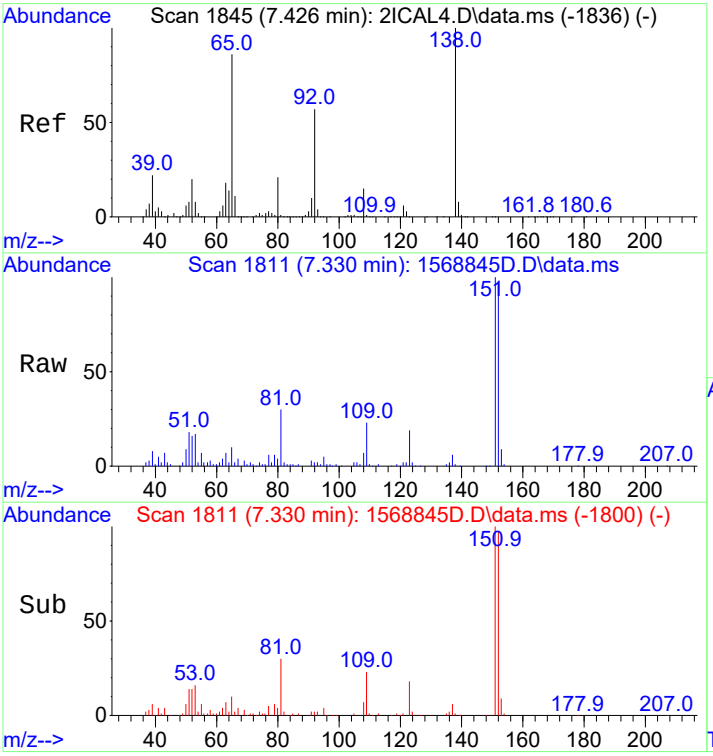



#38
1Methylnaphth
Concen: 0.17 ug/mL
RT: 6.921 min Scan# 1667
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:142 Resp: 3776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.0 | 60.7 | 120.7 |

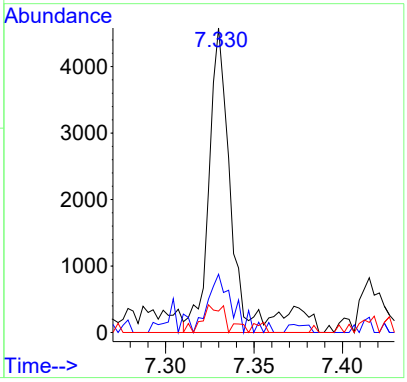


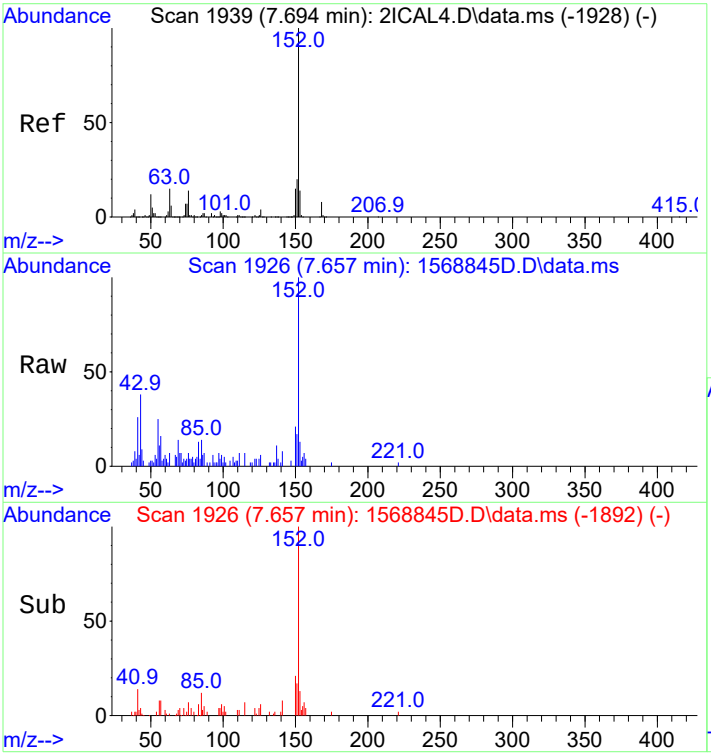




#46
2Nitroaniline
Concen: 0.89 ug/mL
RT: 7.330 min Scan# 1811
Delta R.T. -0.068 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion: 65 Resp: 4179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 19.1 | 36.2 | 96.2# |
| 138 | 7.1 | 85.6 | 145.6# |

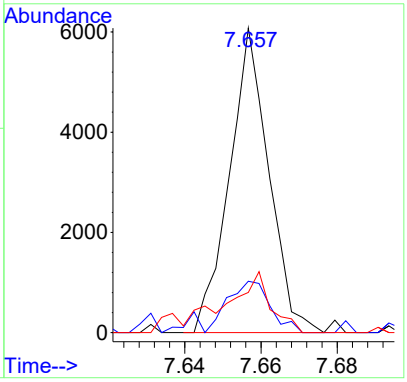


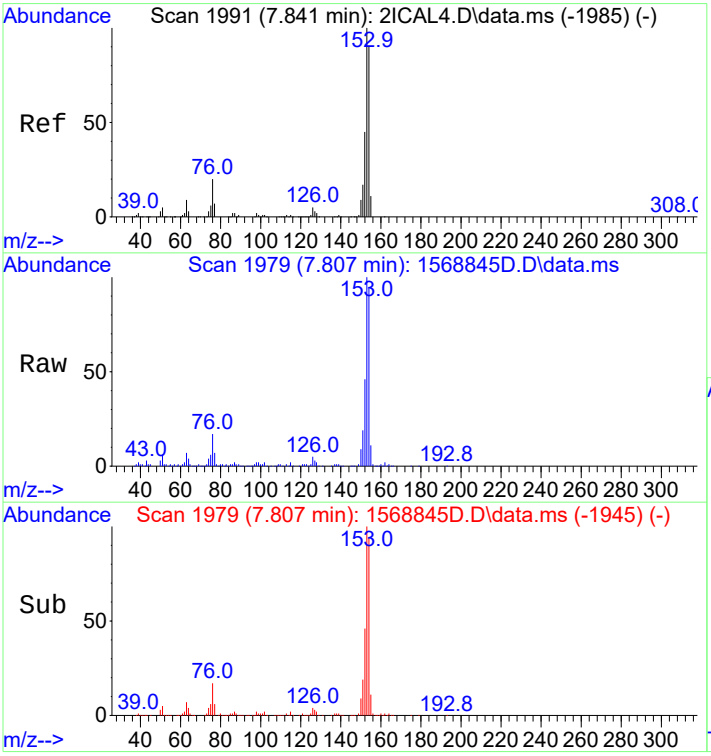



#47
Acnaphthylene
Concen: 0.12 ug/mL
RT: 7.657 min Scan# 1926
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:152 Resp: 4353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 16.9 | 0.0 | 50.3 |
| 153 | 13.2 | 0.0 | 44.4 |

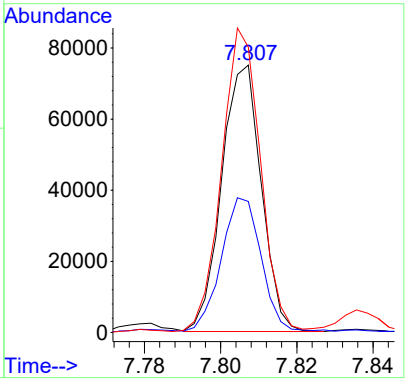


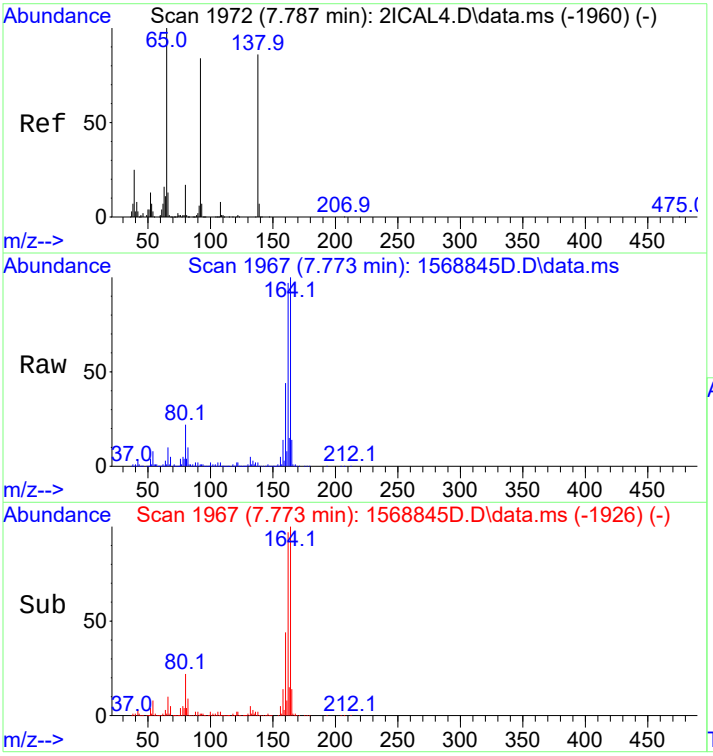




#50
Acenaphthene
Concen: 2.60 ug/mL
RT: 7.807 min Scan# 1979
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:154 Resp: 54255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 48.4 | 20.0 | 80.0 |
| 153 | 106.6 | 80.7 | 140.7 |

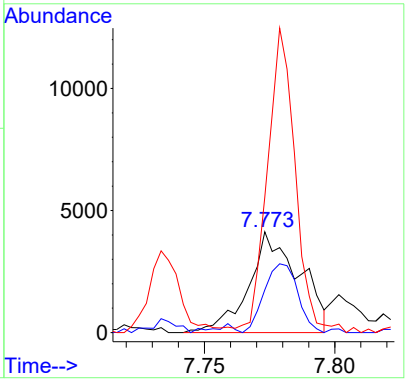


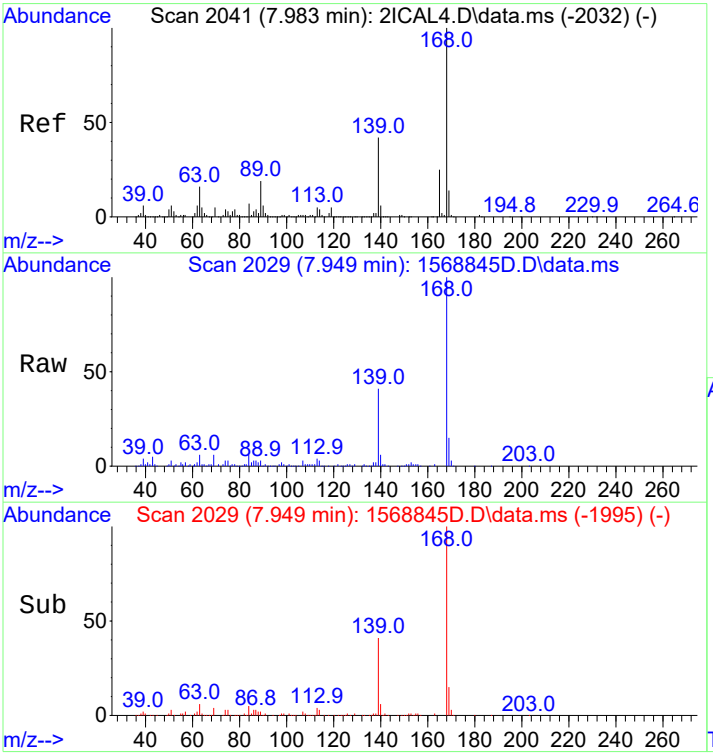



#51
3Nitroaniline
Concen: 1.13 ug/mL
RT: 7.773 min Scan# 1967
Delta R.T. 0.017 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:138 Resp: 5568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 42.4 | 67.7 | 127.7# |
| 108 | 127.0 | 0.0 | 38.9# |

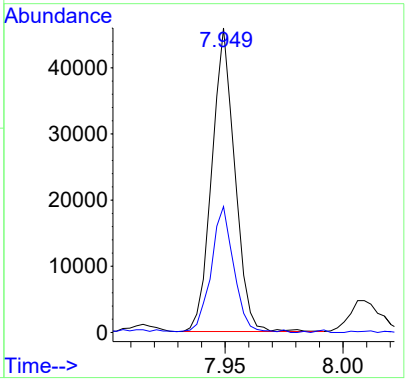


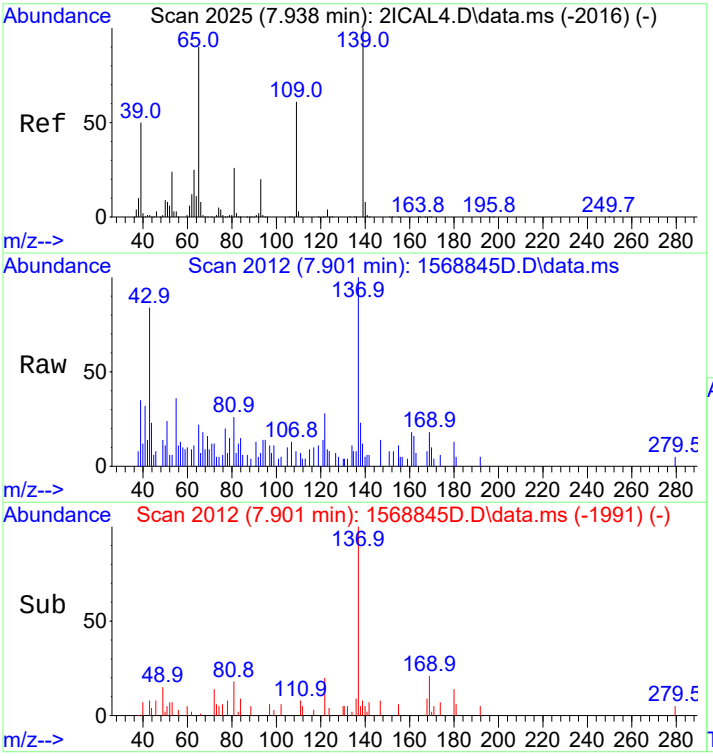




#53
Dibenzofuran
Concen: 1.03 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:168 Resp: 31029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 41.0 | 11.9 | 71.9 |

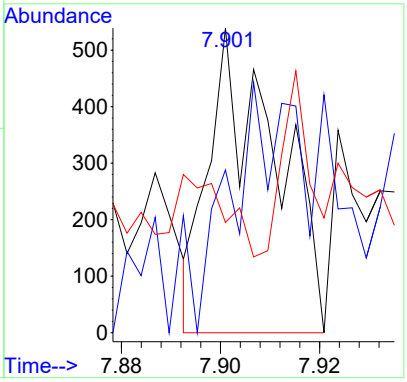


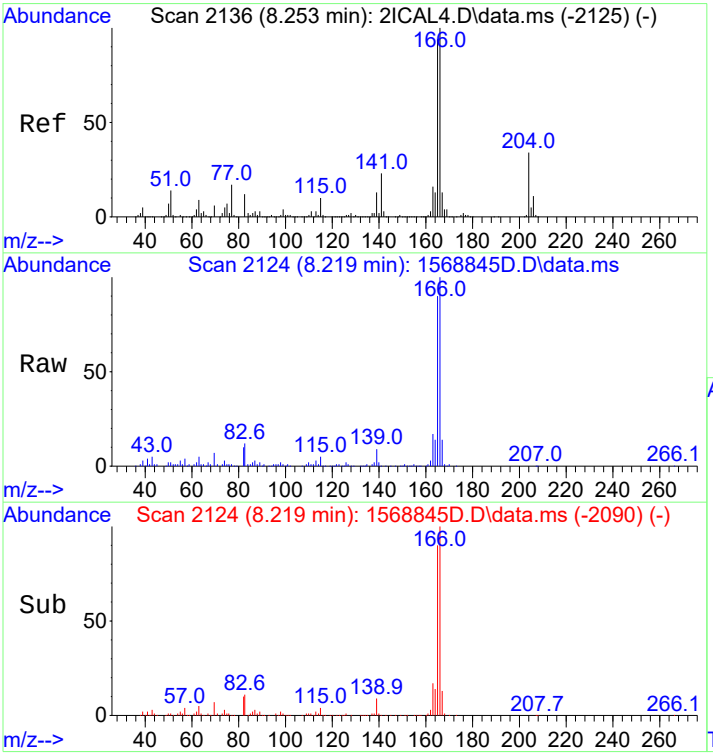



#55
4-Nitrophenol
Concen: 1.37 ug/mL
RT: 7.901 min Scan# 2012
Delta R.T. -0.006 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion: 65 Resp: 509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 15.0 | 80.5 | 140.5# |
| 109 | 0.0 | 37.6 | 97.6# |

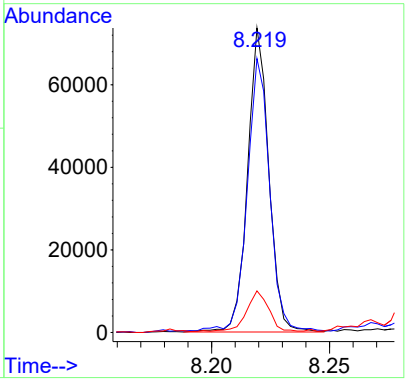


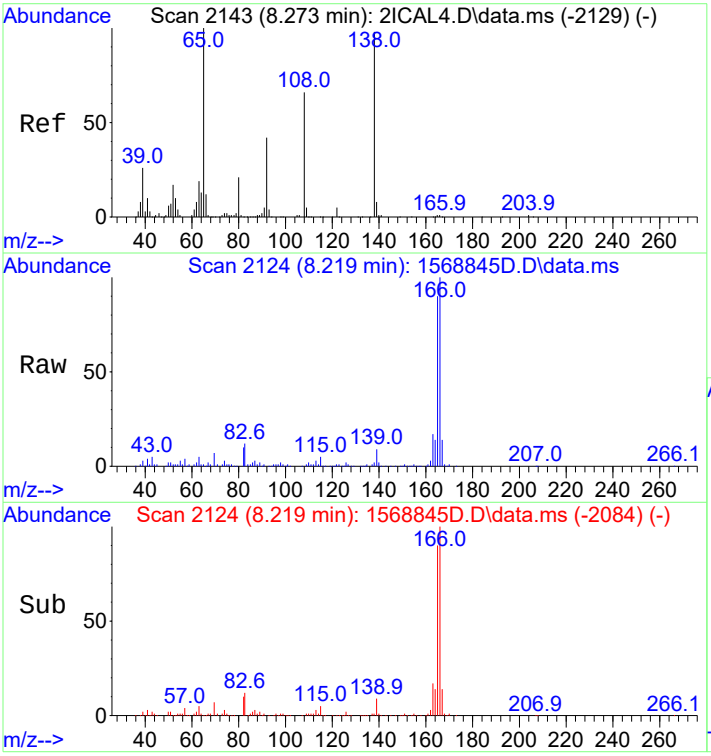




#58
Fluorene
Concen: 2.00 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:166 Resp: 46194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 89.7 | 63.6 | 123.6 |
| 167 | 13.1 | 0.0 | 43.3 |

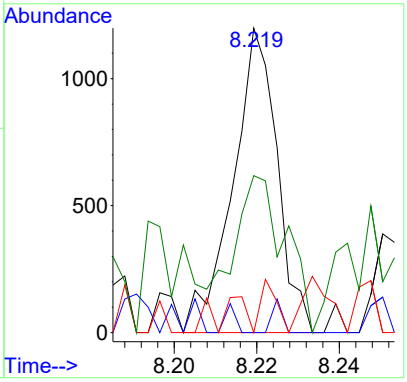


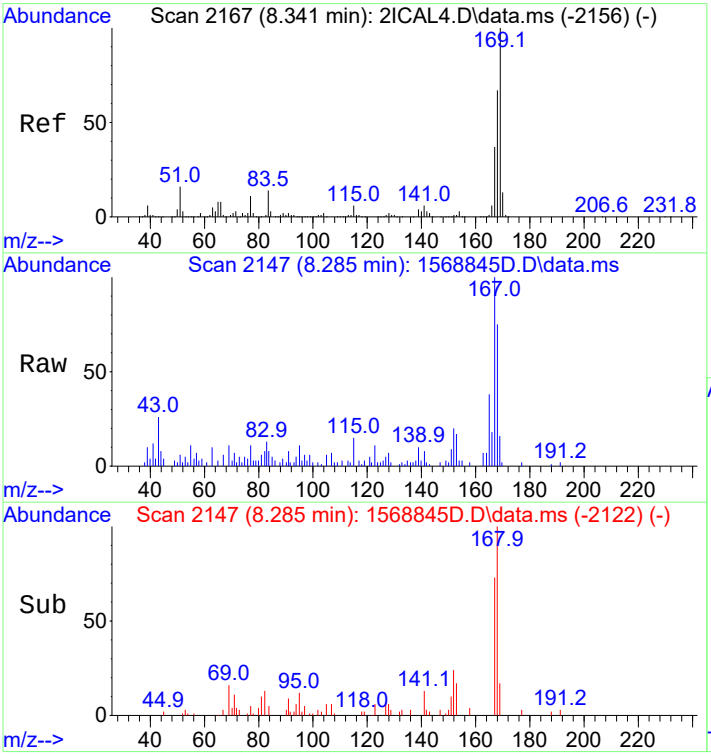



#61
4Nitroaniline
Concen: 0.48 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.026 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:138 Resp: 893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 25.9 | 12.7 | 72.7 |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 41.5 | 71.1 | 131.1# |

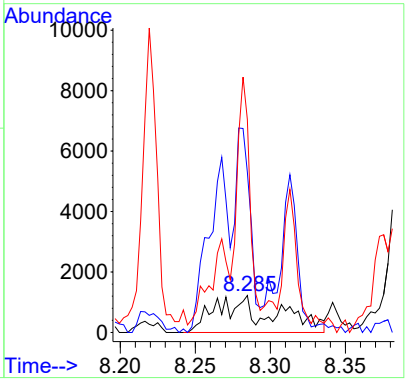


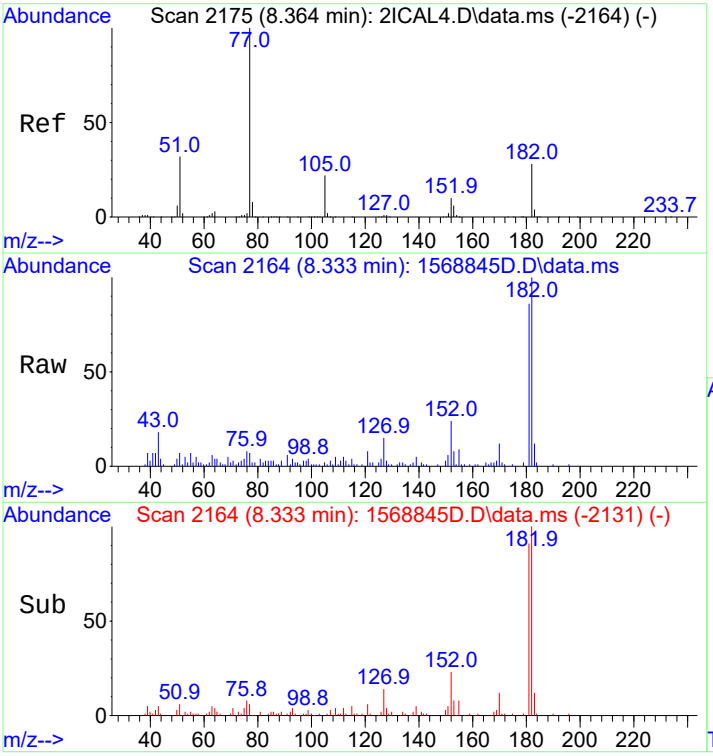




#65
Ntrsdiphlam&Diphlam
Concen: 0.20 ug/mL
RT: 8.285 min Scan# 2147
Delta R.T. -0.028 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:169 Resp: 3291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 423.3 | 37.2 | 97.2# |
| 167 | 526.5 | 6.9 | 66.9# |

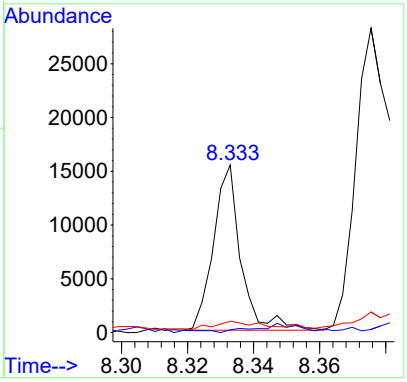


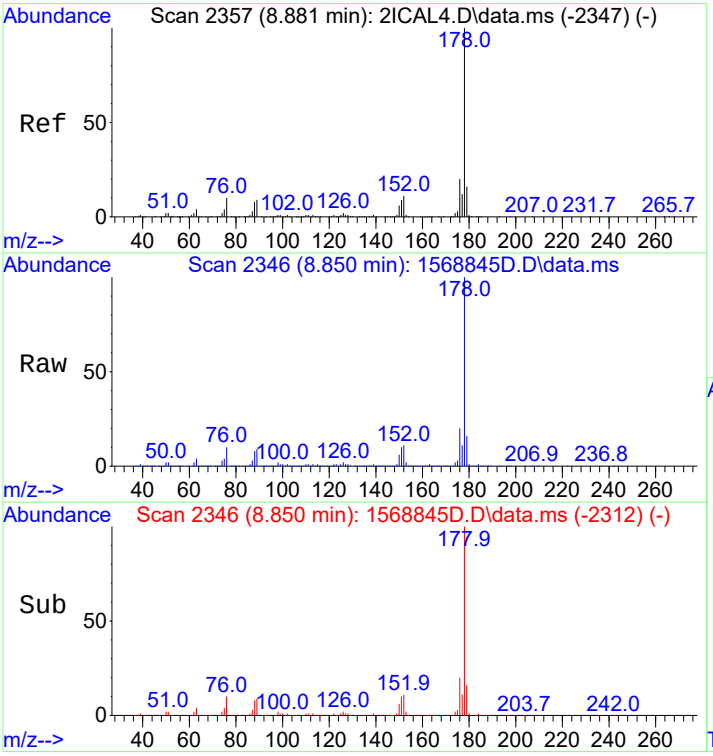



#66
Azobenz&12Diphlhyd
Concen: 1.54 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:182 Resp: 8875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 1.2 | 49.9 | 109.9# |
| 77 | 4.5 | 339.9 | 399.9# |

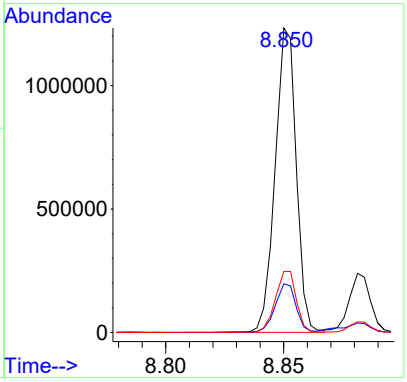


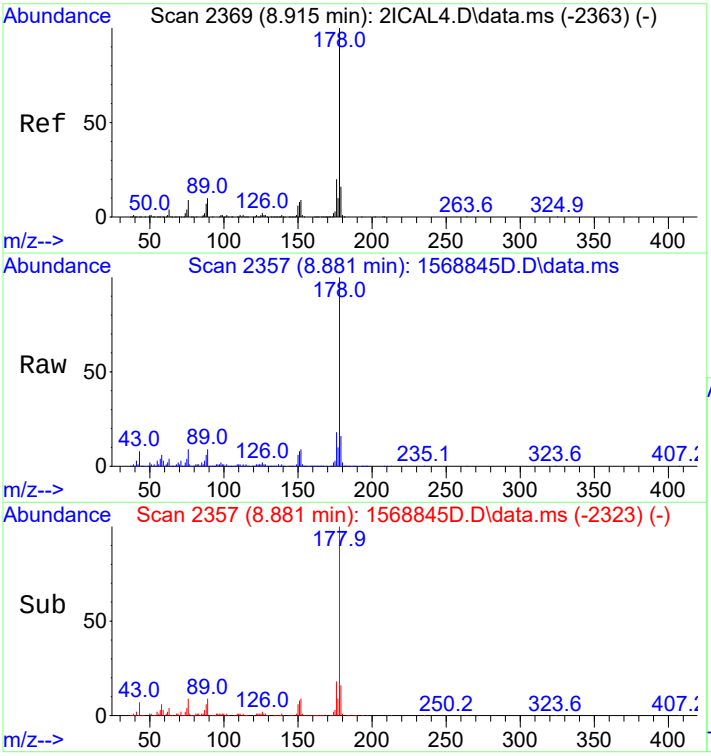




#70
Phenanthrene
Concen: 25.13 ug/mL
RT: 8.850 min Scan# 2346
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:178 Resp: 766588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.0 | 0.0 | 45.9 |
| 176 | 20.0 | 0.0 | 50.4 |

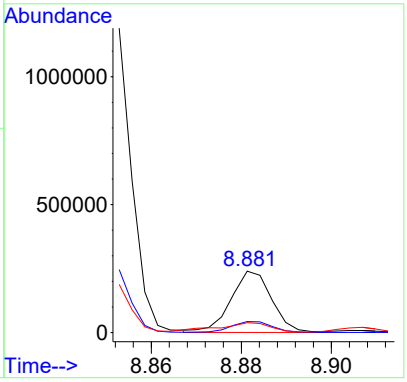


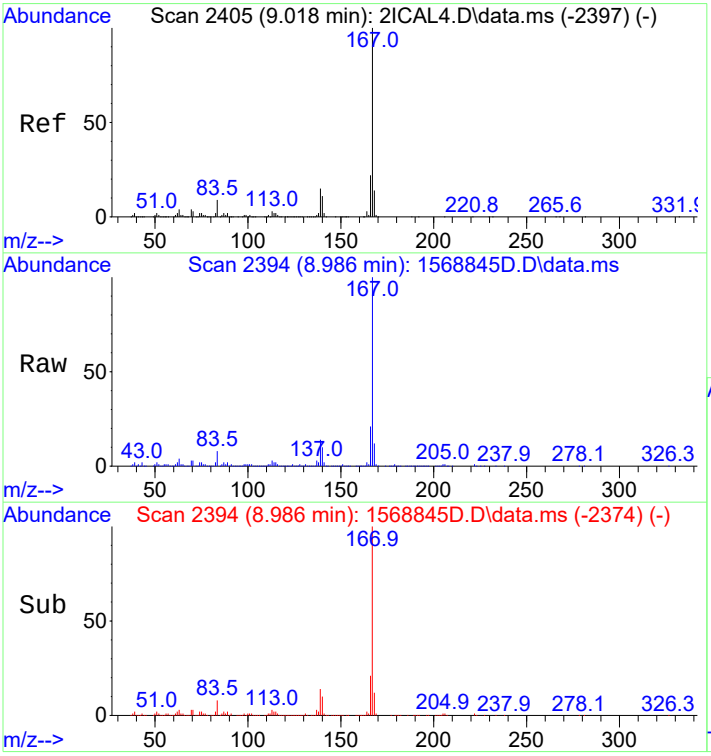



#71
Anthracene
Concen: 4.87 ug/mL
RT: 8.881 min Scan# 2357
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:178 Resp: 151119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.9 | 0.0 | 49.5 |
| 179 | 14.4 | 0.0 | 45.9 |

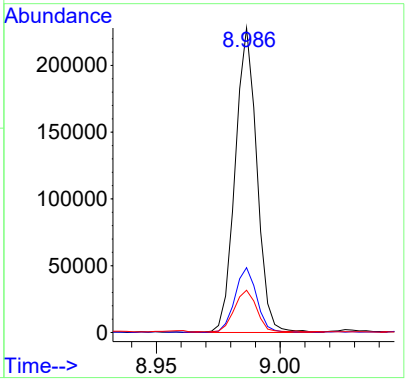


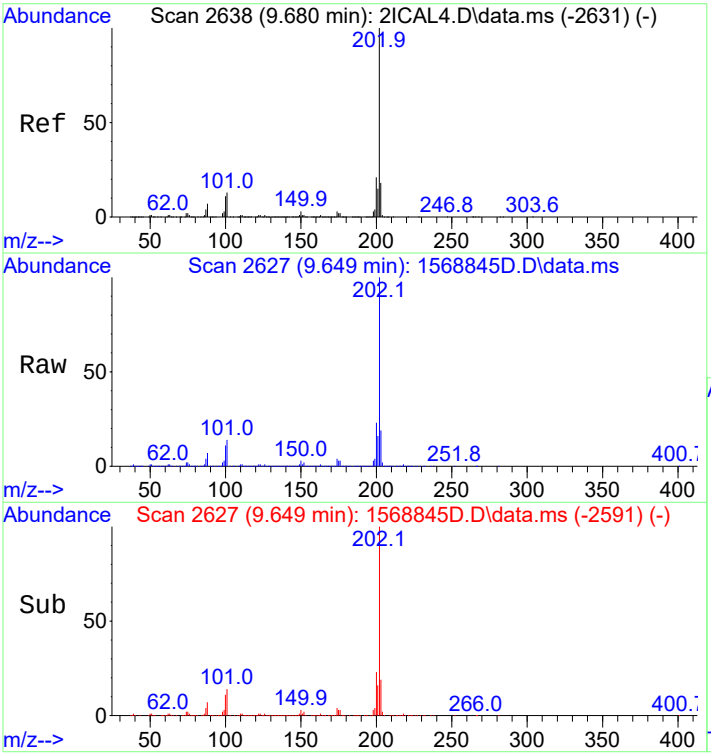




#72
Carbazole
Concen: 5.27 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:167 Resp: 139177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.2 | 0.0 | 52.1 |
| 139 | 13.7 | 0.0 | 44.7 |

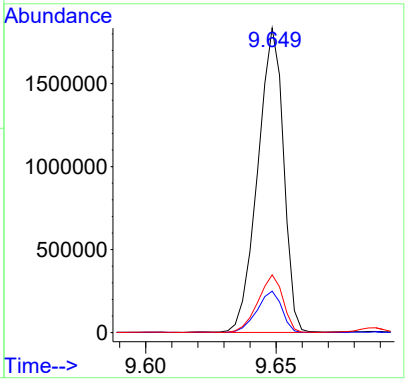


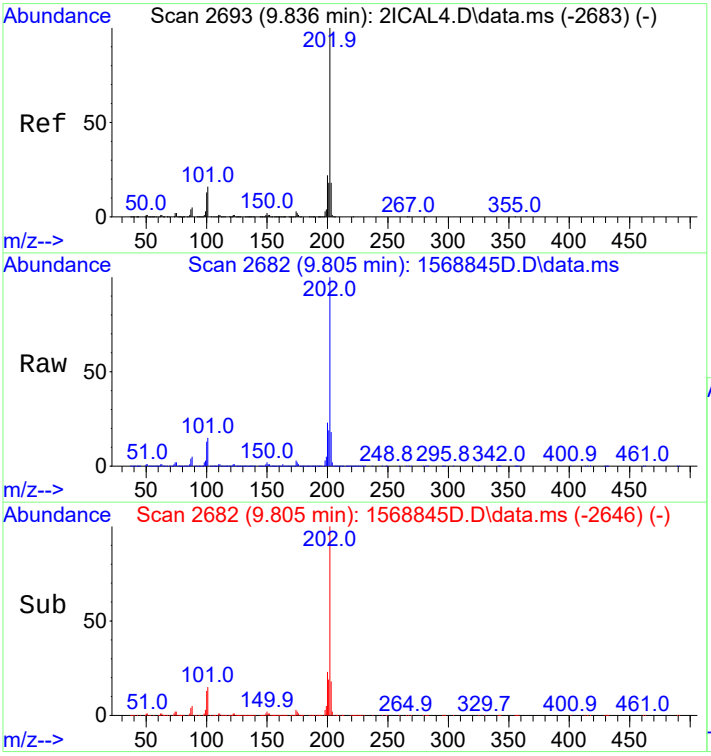



#74
Fluoranthene
Concen: 39.20 ug/mL
RT: 9.649 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:202 Resp: 1262817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.5 | 0.0 | 43.0 |
| 203 | 18.9 | 0.0 | 48.2 |

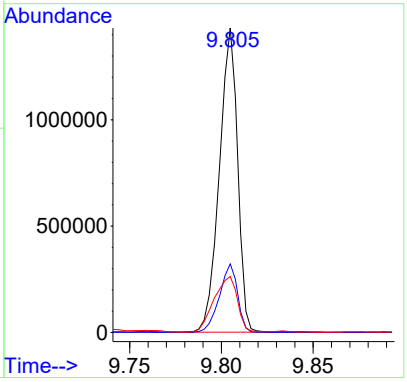


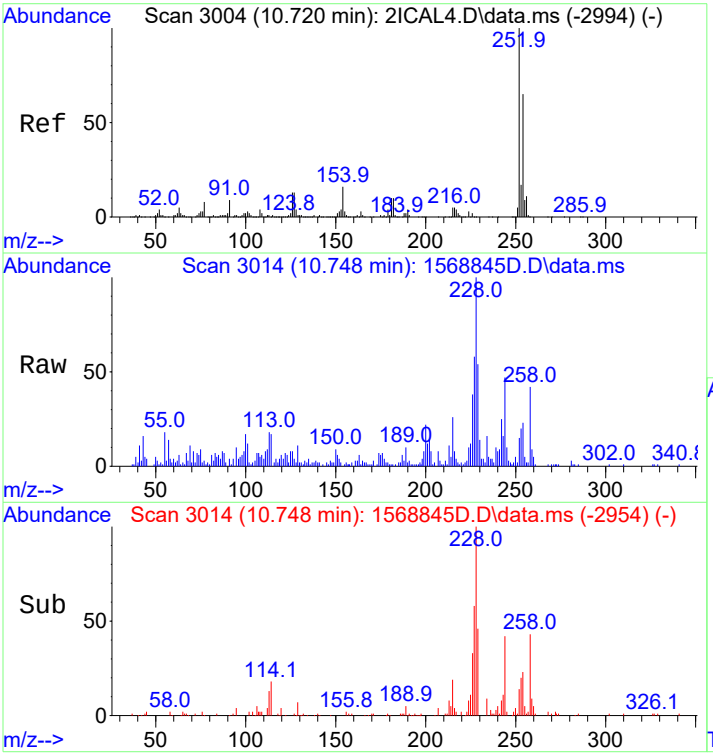




#77
Pyrene
Concen: 27.78 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:202 Resp: 991629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.5 | 0.0 | 52.2 |
| 203 | 18.4 | 0.0 | 48.2 |

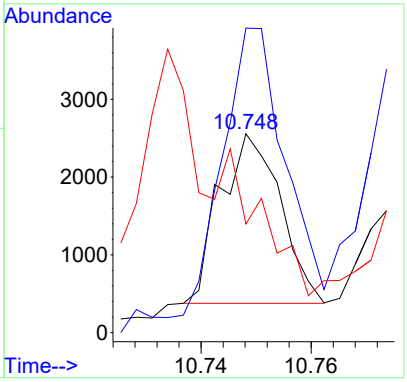


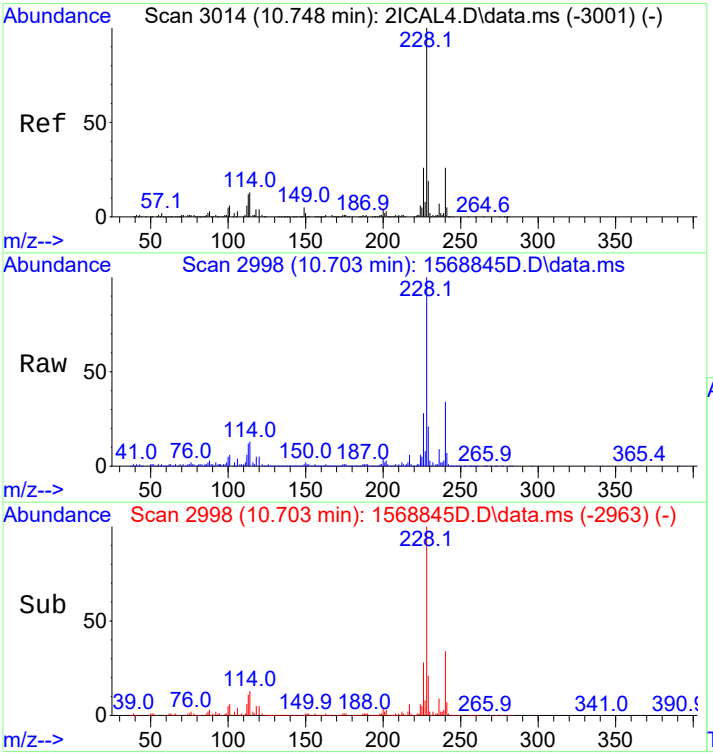



#81
33Diclbnzidin
Concen: Below Cal
RT: 10.748 min Scan# 3014
Delta R.T. 0.071 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:252 Resp: 1655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 169.3 | 34.6 | 94.6# |
| 126 | 33.5 | 0.0 | 42.6 |

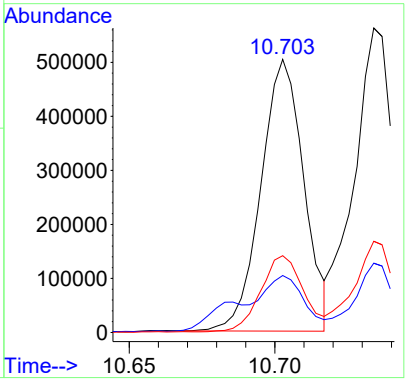


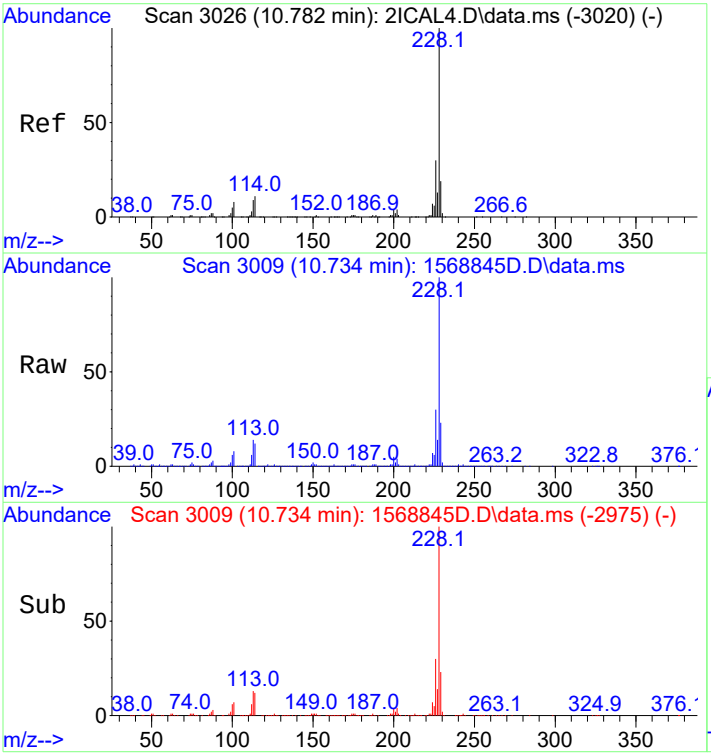




#82
B[a]anthracen
Concen: 15.24 ug/mL
RT: 10.703 min Scan# 2998
Delta R.T. 0.000 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:228 Resp: 515618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.2 | 0.0 | 49.4 |
| 226 | 28.0 | 0.0 | 56.5 |

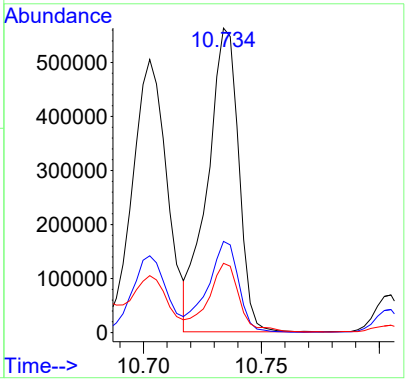


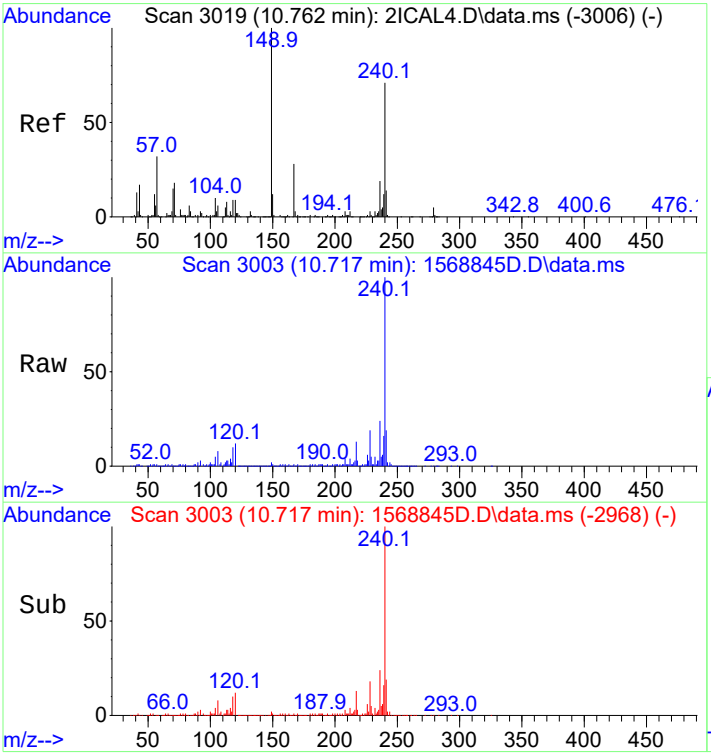



#83
Chrysene
Concen: 16.27 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:228 Resp: 516321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.8 | 0.0 | 59.9 |
| 229 | 22.6 | 0.0 | 49.5 |

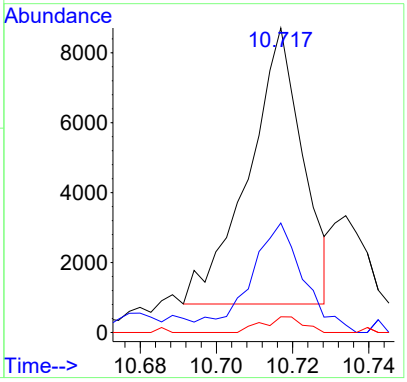


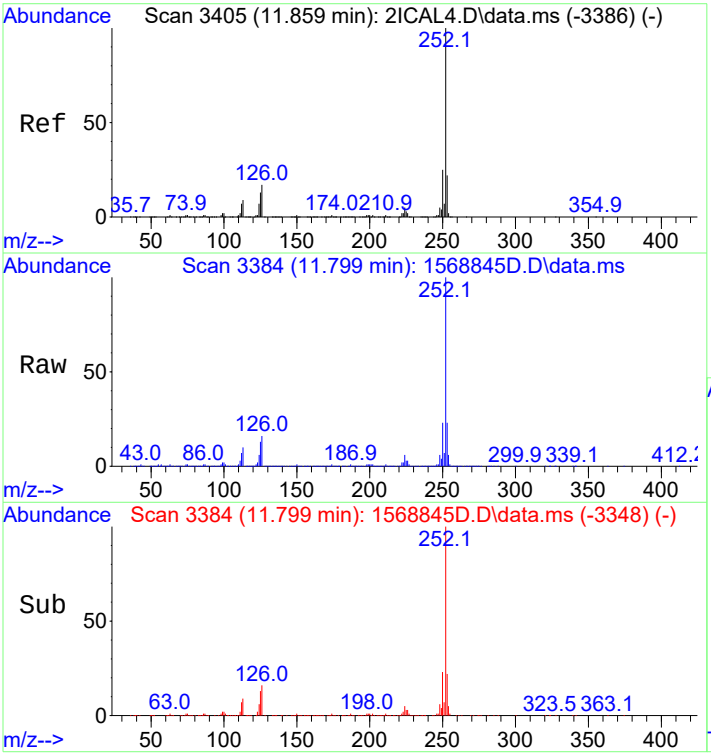




#84
bis2Ethlhxlph
Concen: 0.30 ug/mL
RT: 10.717 min Scan# 3003
Delta R.T. 0.000 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:149 Resp: 7822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 34.5 | 0.0 | 57.9 |
| 279 | 5.7 | 0.0 | 34.9 |

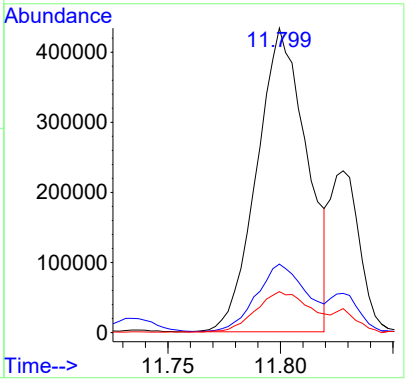


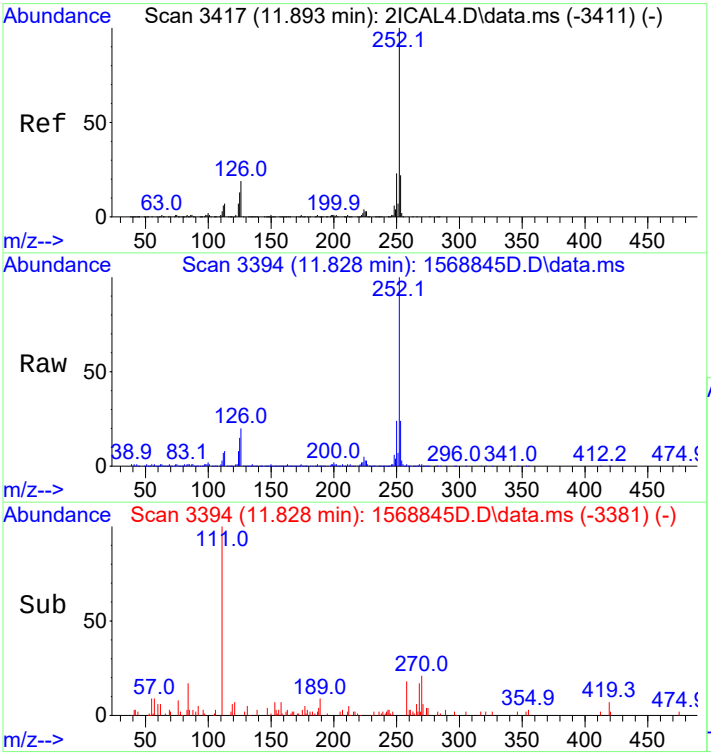



#87
B[b]fluoranth
Concen: 24.21 ug/mL
RT: 11.799 min Scan# 3384
Delta R.T. 0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:252 Resp: 670468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 0.0 | 52.3 |
| 125 | 13.2 | 0.0 | 43.2 |

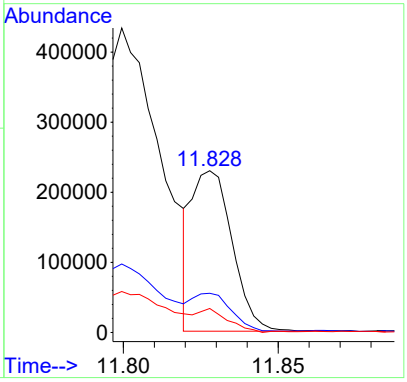


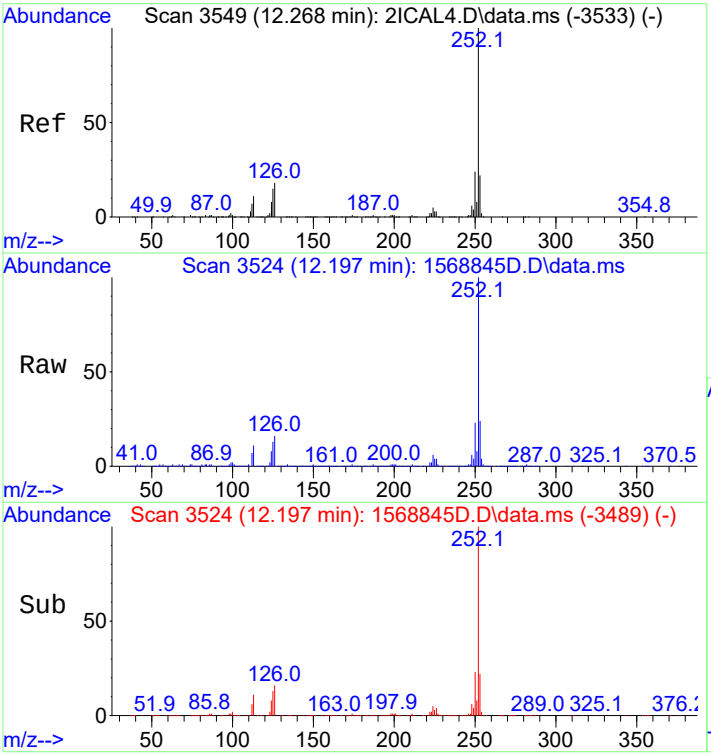




#88
B[k]fluoranth
Concen: 7.48 ug/mL
RT: 11.828 min Scan# 3394
Delta R.T. -0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:252 Resp: 207527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 0.0 | 52.0 |
| 125 | 14.3 | 0.0 | 43.3 |

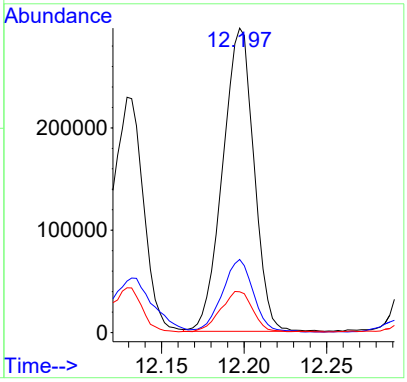


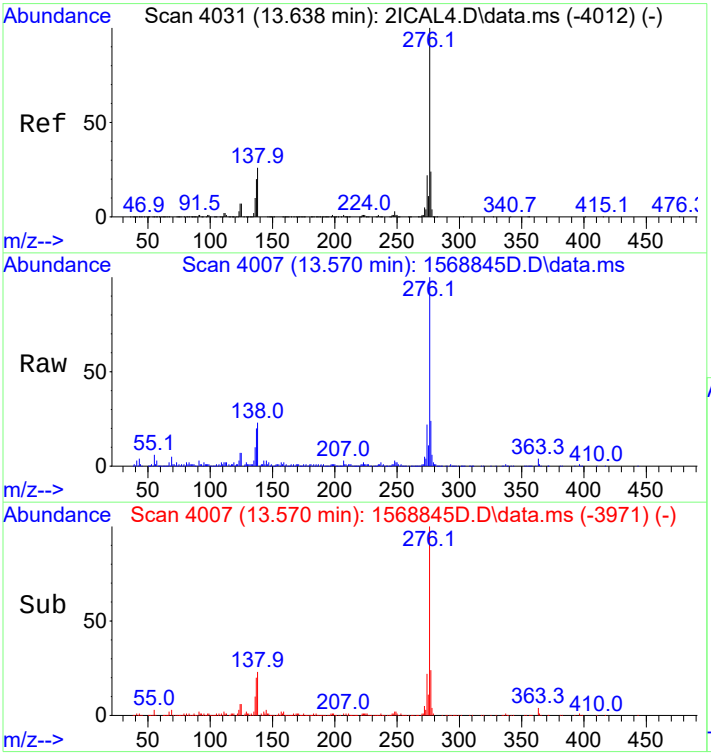



#89
Benz[a]pyrene
Concen: 15.31 ug/mL
RT: 12.197 min Scan# 3524
Delta R.T. 0.000 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:252 Resp: 390037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.0 | 0.0 | 52.3 |
| 125 | 13.2 | 0.0 | 45.1 |

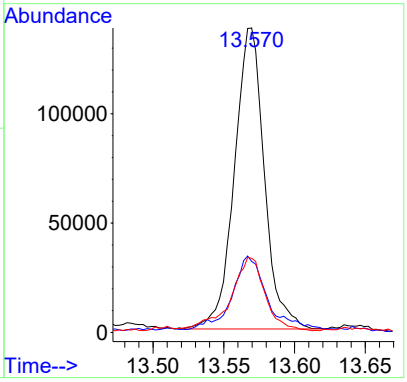


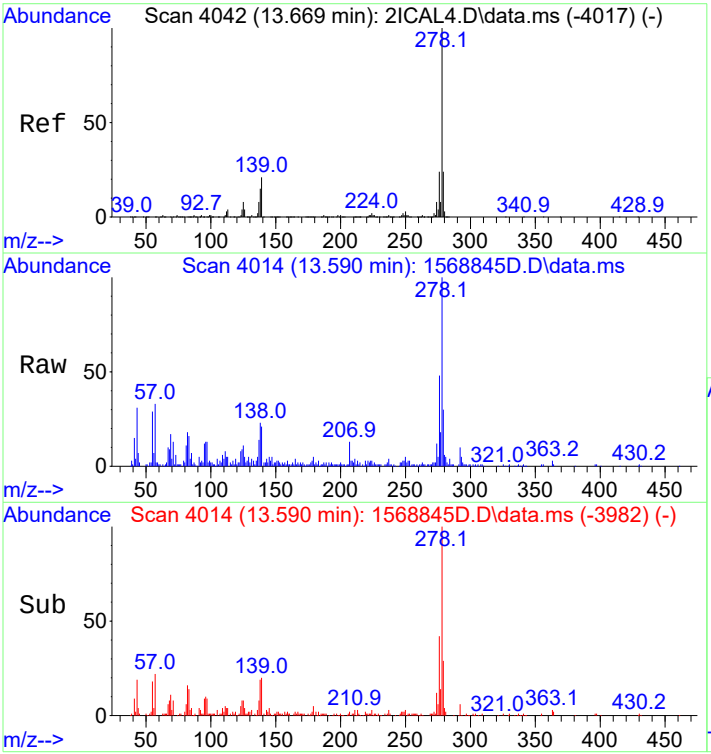




#90
Indeno-pyrene
Concen: 7.21 ug/mL
RT: 13.570 min Scan# 4007
Delta R.T. 0.003 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:276 Resp: 202993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 22.6 | 0.0 | 55.5 |
| 277 | 23.6 | 0.0 | 54.0 |

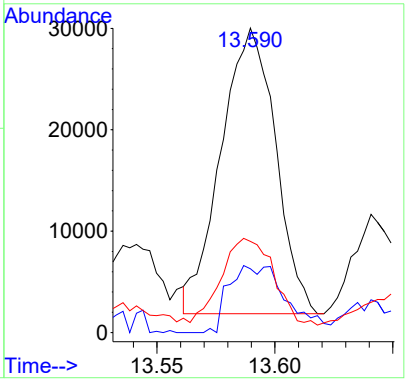


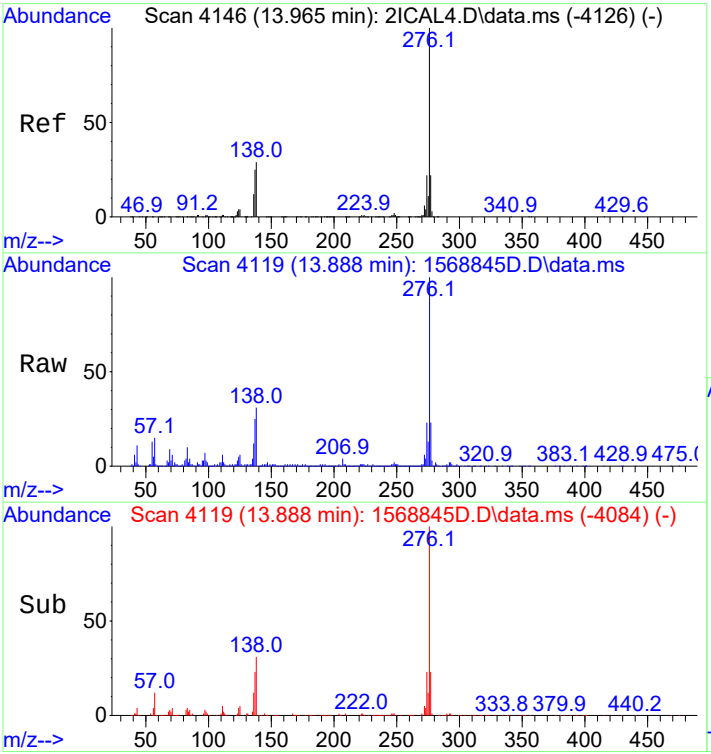



#91
Dib[ah]anthr
Concen: 1.97 ug/mL
RT: 13.590 min Scan# 4014
Delta R.T. -0.008 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:278 Resp: 45273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.3 | 0.0 | 50.9 |
| 279 | 28.5 | 0.0 | 54.4 |

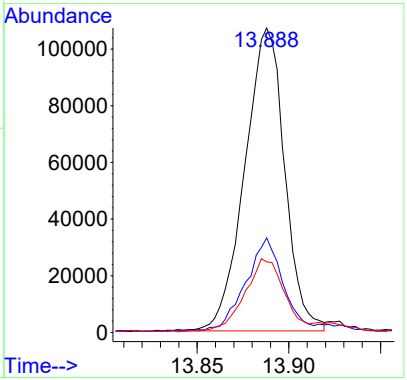



#92
B[ghi]perylen
Concen: 7.32 ug/mL
RT: 13.888 min Scan# 4119
Delta R.T. 0.000 min
Lab File: 1568845D.D
Acq: 11 Apr 2025 16:04

Tgt Ion:276 Resp: 161499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 30.5 | 0.0 | 59.0 |
| 277 | 22.9 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568822D.D Vial: 15
Acq On : 11 Apr 2025 16:28 Operator: JJY
Sample : 290730,1568822,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:06 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

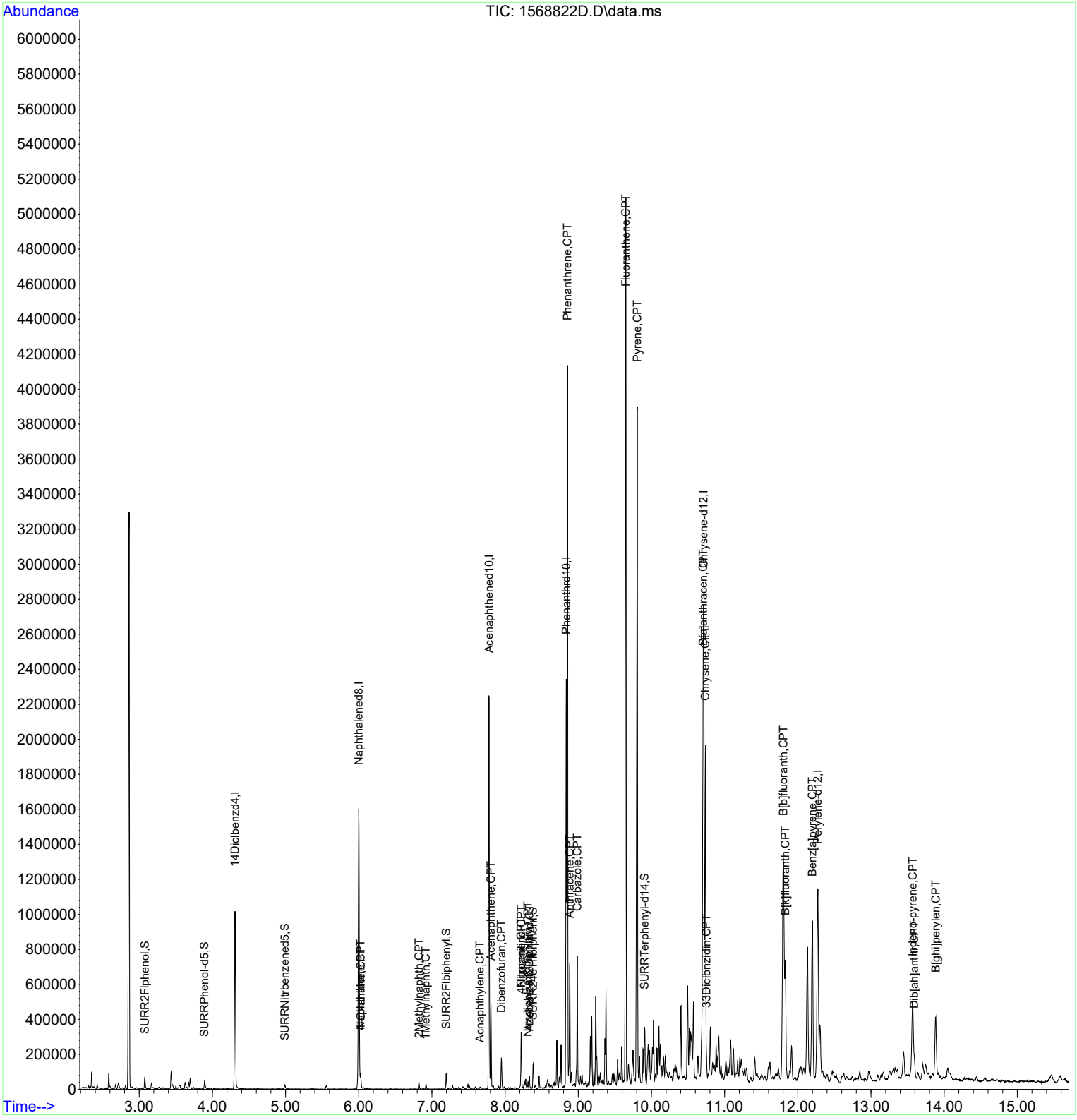
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 152209 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 738289 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 407390 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 600866 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 524443 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.274 | 264 | 498514 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.076 | 112 | 13181 | 3.60 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 3.60% | | | |
| 7) SURRPhenol-d5 | 3.892 | 99 | 17433 | 3.96 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 3.96% | | | |
| 22) SURRNitrbenzened5 | 4.991 | 82 | 7899 | 3.93 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 3.93% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 23080 | 4.75 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.75% | | | |
| 62) SURR246Tribrphenl | 8.381 | 330 | 5163 | 4.73 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.73% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 28404 | 5.55 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.55% | | | |
| Target Compounds | | | | | | Qvalue |
| 31) Naphthalene | 6.026 | 128 | 31303 | 0.9193 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.028 | 127 | 2682 | 0.2019 | ug/mL# | 47 |
| 37) 2Methylnaphth | 6.821 | 142 | 9370 | 0.4553 | ug/mL | 88 |
| 38) 1Methylnaphth | 6.918 | 142 | 7228 | 0.3396 | ug/mL | 100 |
| 47) Acnaphthylene | 7.657 | 152 | 3160 | 0.0958 | ug/mL | 93 |
| 50) Acenaphthene | 7.807 | 154 | 81760 | 4.1725 | ug/mL | 95 |
| 53) Dibenzofuran | 7.949 | 168 | 55546 | 1.9630 | ug/mL | 95 |
| 58) Fluorene | 8.219 | 166 | 67590 | 3.1246 | ug/mL | 98 |
| 61) 4Nitroaniline | 8.222 | 138 | 818 | 0.4812 | ug/mL# | 45 |
| 65) Ntrsdiphlam&Diphlam | 8.313 | 169 | 850 | 0.0549 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 12586 | 2.2783 | ug/mL# | 1 |
| 70) Phenanthrene | 8.853 | 178 | 1047107 | 35.7693 | ug/mL | 100 |
| 71) Anthracene | 8.884 | 178 | 191948 | 6.4447 | ug/mL | 97 |
| 72) Carbazole | 8.986 | 167 | 197514 | 7.7879 | ug/mL | 99 |
| 74) Fluoranthene | 9.651 | 202 | 1521803 | 49.2303 | ug/mL | 99 |
| 76) Benzidine | 9.768 | 184 | 897 | Below Cal | | 82 |
| 77) Pyrene | 9.808 | 202 | 1188201 | 35.6692 | ug/mL | 100 |
| 81) 33Diclbnzidin | 10.751 | 252 | 2501 | 0.1069 | ug/mL# | 22 |
| 82) B[a]anthracen | 10.705 | 228 | 598485 | 18.9547 | ug/mL | 99 |
| 83) Chrysene | 10.737 | 228 | 590020 | 19.9249 | ug/mL | 97 |
| 87) B[b]fluoranth | 11.802 | 252 | 746443 | 28.2667 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.828 | 252 | 261133 | 9.8698 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.200 | 252 | 447391 | 18.4224 | ug/mL | 96 |
| 90) Indeno-pyrene | 13.570 | 276 | 242000 | 9.0095 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.590 | 278 | 53736 | 2.4474 | ug/mL | 97 |
| 92) B[ghi]perylen | 13.885 | 276 | 189025 | 8.9822 | ug/mL | 95 |

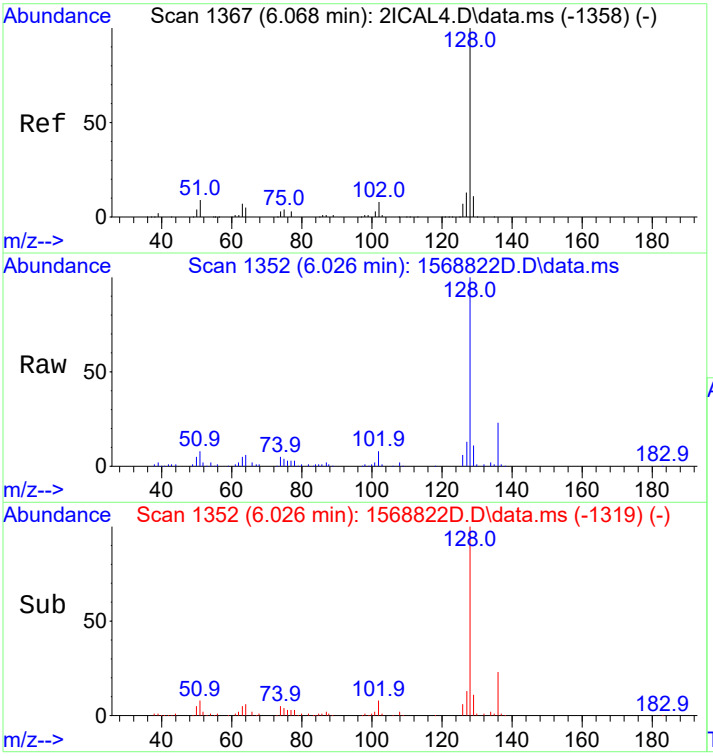
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568822D.D Vial: 15
Acq On : 11 Apr 2025 16:28 Operator: JJY
Sample : 290730,1568822,10 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:06 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

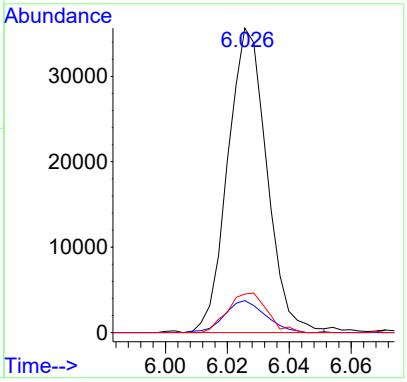


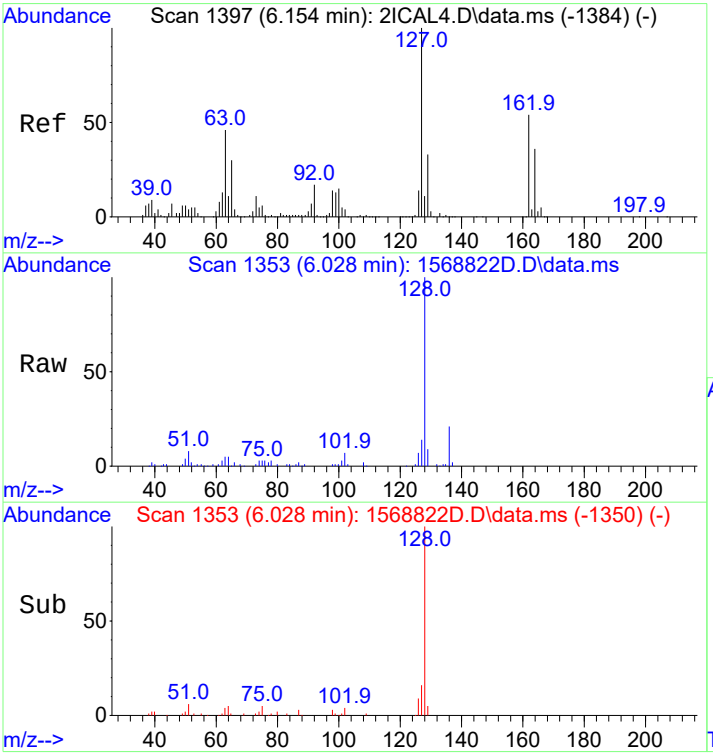



#31
Naphthalene
Concen: 0.92 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.006 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:128 Resp: 31303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.5 | 0.0 | 41.0 |
| 127 | 12.7 | 0.0 | 43.3 |

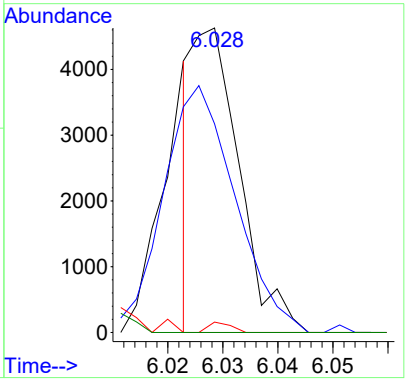


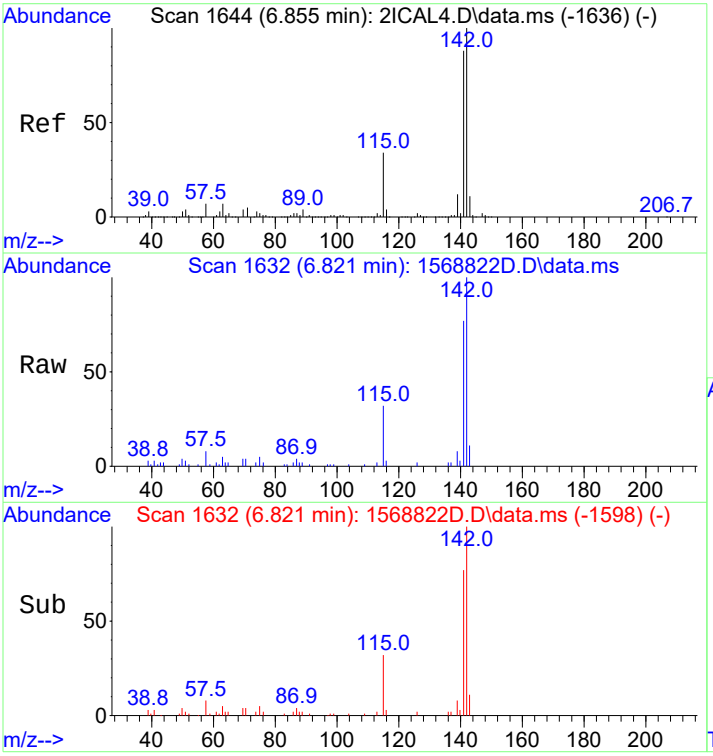




#32
4-Cl-aniline
Concen: 0.20 ug/mL
RT: 6.028 min Scan# 1353
Delta R.T. -0.091 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:127 Resp: 2682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 68.5 | 3.1 | 63.1# |
| 65 | 3.4 | 0.2 | 60.2 |
| 92 | 0.0 | 0.0 | 46.7 |

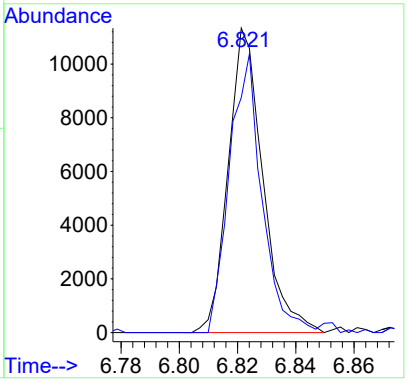


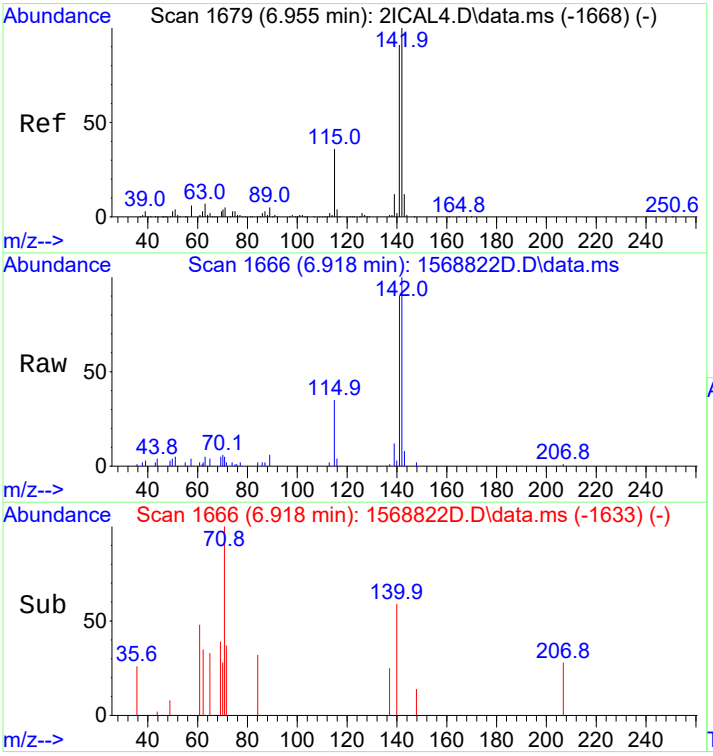



#37
2Methylnaphth
Concen: 0.46 ug/mL
RT: 6.821 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:142 Resp: 9370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 77.2 | 58.0 | 118.0 |

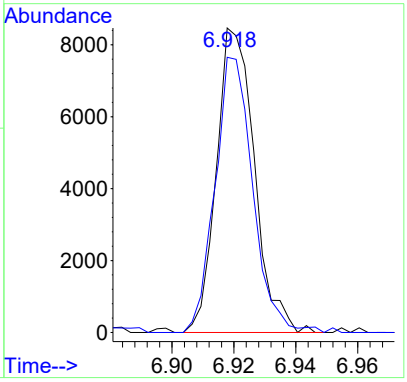


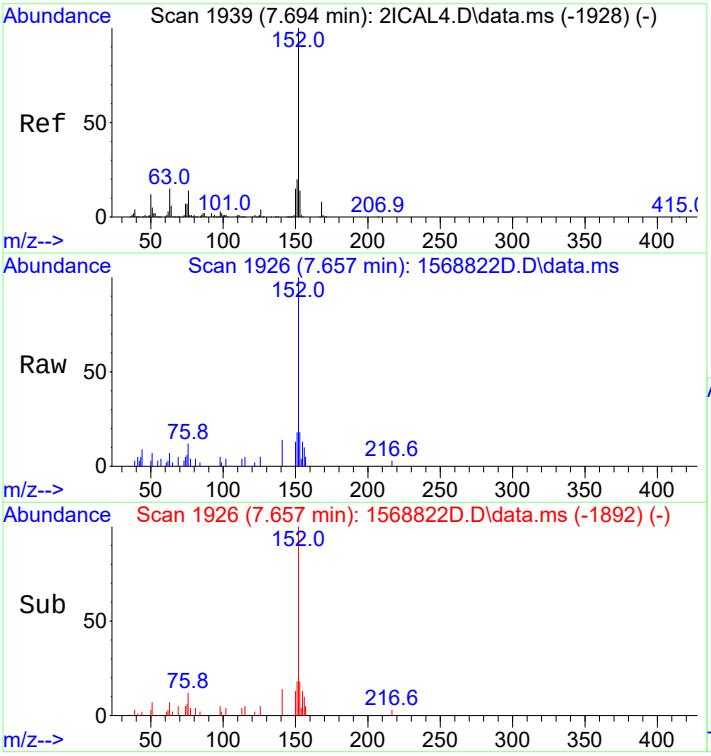




#38
1Methylnaphth
Concen: 0.34 ug/mL
RT: 6.918 min Scan# 1666
Delta R.T. -0.006 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:142 Resp: 7228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.4 | 60.7 | 120.7 |

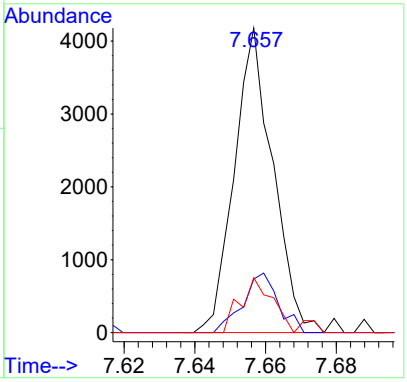


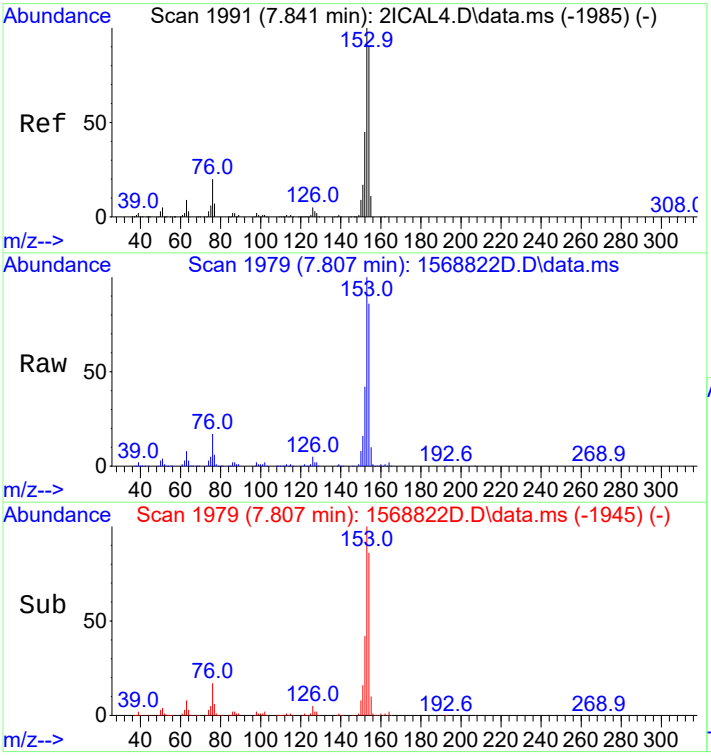



#47
Acnaphthylene
Concen: 0.10 ug/mL
RT: 7.657 min Scan# 1926
Delta R.T. -0.003 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:152 Resp: 3160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 17.6 | 0.0 | 50.3 |
| 153 | 18.0 | 0.0 | 44.4 |

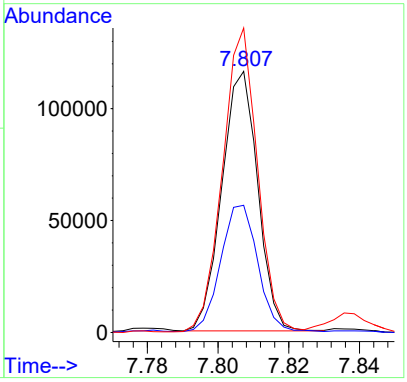


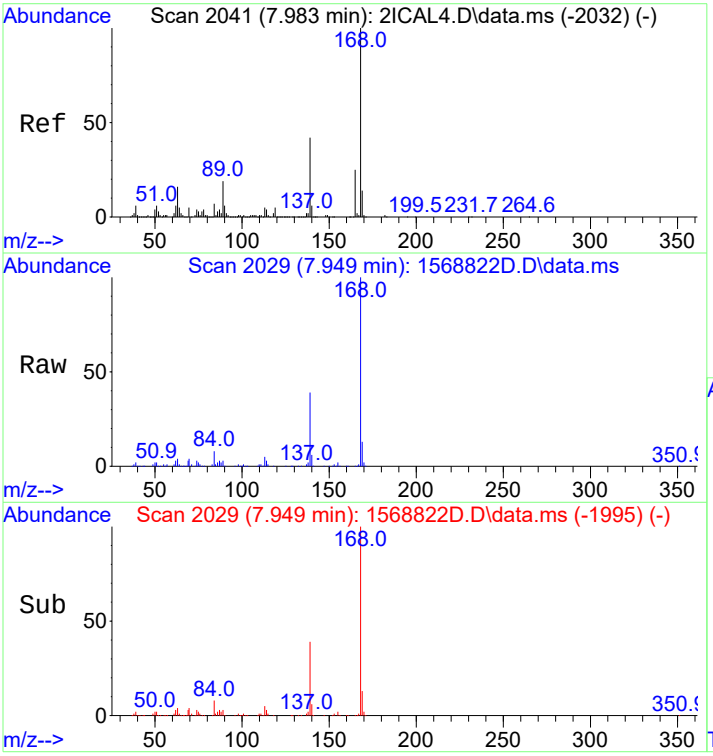




#50
Acenaphthene
Concen: 4.17 ug/mL
RT: 7.807 min Scan# 1979
Delta R.T. -0.003 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:154 Resp: 81760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 48.7 | 20.0 | 80.0 |
| 153 | 117.0 | 80.7 | 140.7 |

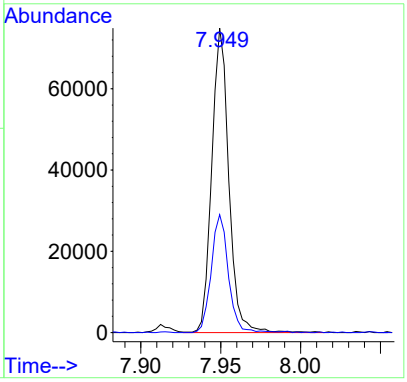


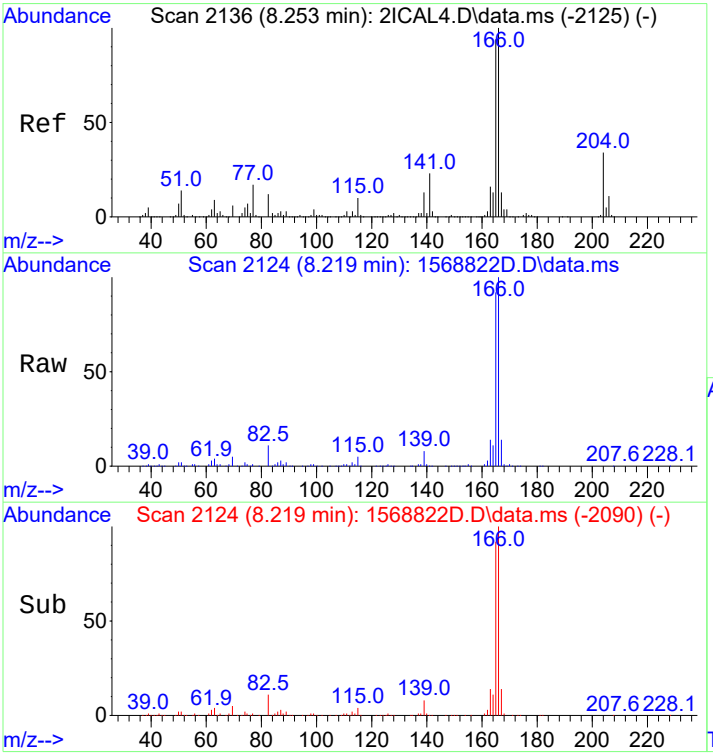



#53
Dibenzofuran
Concen: 1.96 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:168 Resp: 55546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 38.7 | 11.9 | 71.9 |

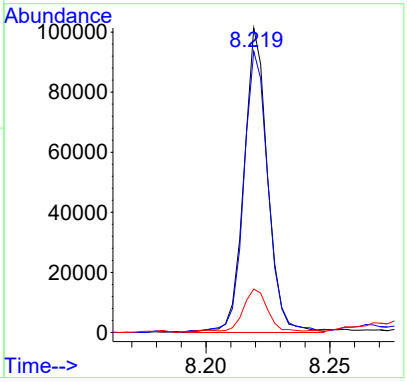


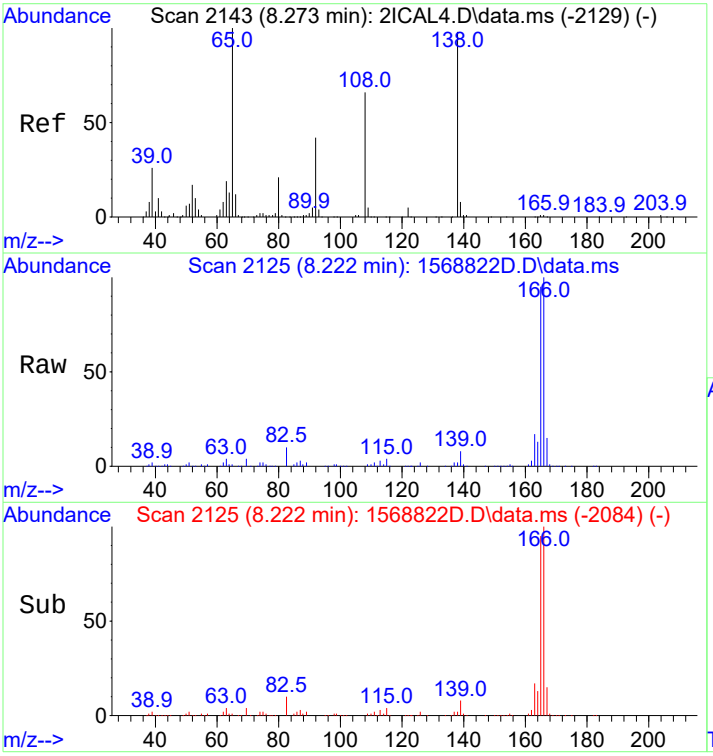




#58
Fluorene
Concen: 3.12 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.003 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:166 Resp: 67590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 92.2 | 63.6 | 123.6 |
| 167 | 14.1 | 0.0 | 43.3 |

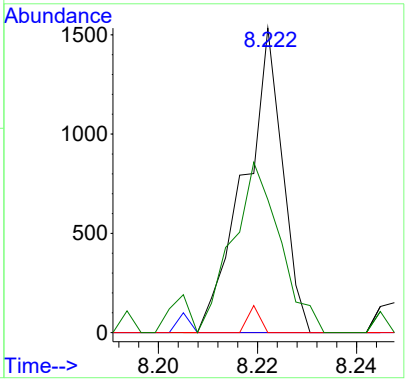


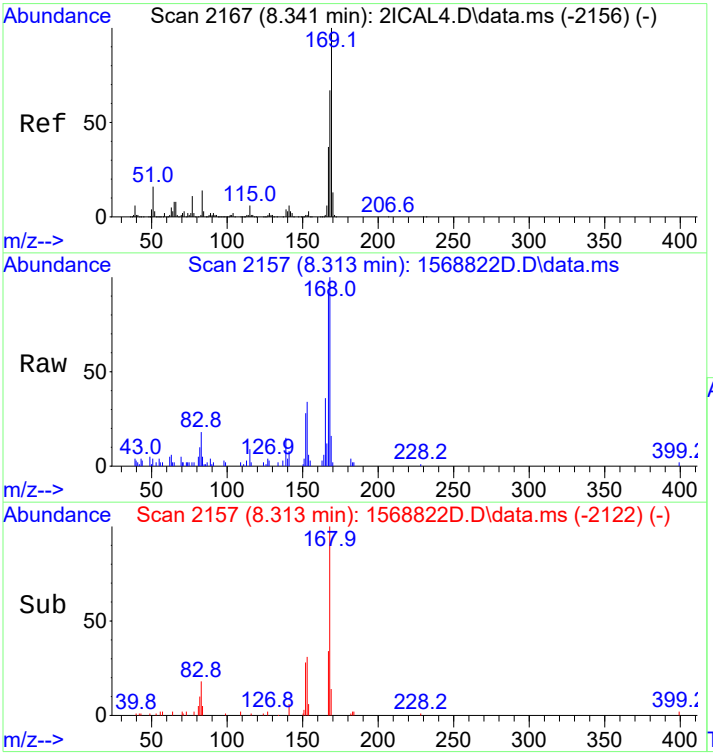



#61
4Nitroaniline
Concen: 0.48 ug/mL
RT: 8.222 min Scan# 2125
Delta R.T. -0.023 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:138 Resp: 818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 31.0 | 36.9 | 96.9# |
| 65 | 43.7 | 71.1 | 131.1# |

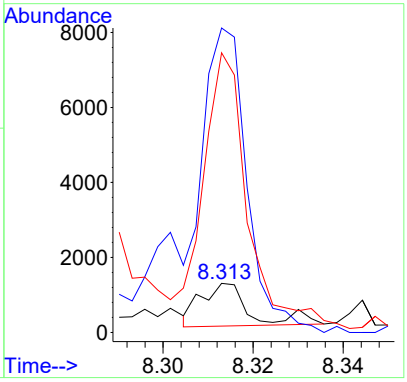


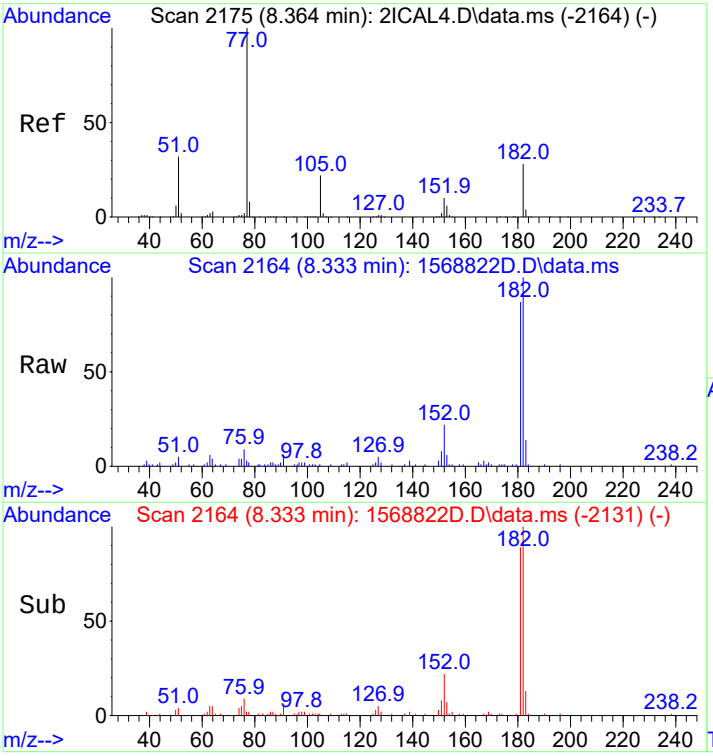




#65
Ntrsdiphlam&Diphlam
Concen: 0.05 ug/mL
RT: 8.313 min Scan# 2157
Delta R.T. 0.000 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:169 Resp: 850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 727.6 | 37.2 | 97.2# |
| 167 | 657.8 | 6.9 | 66.9# |

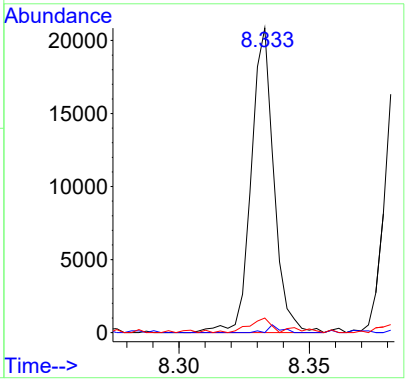


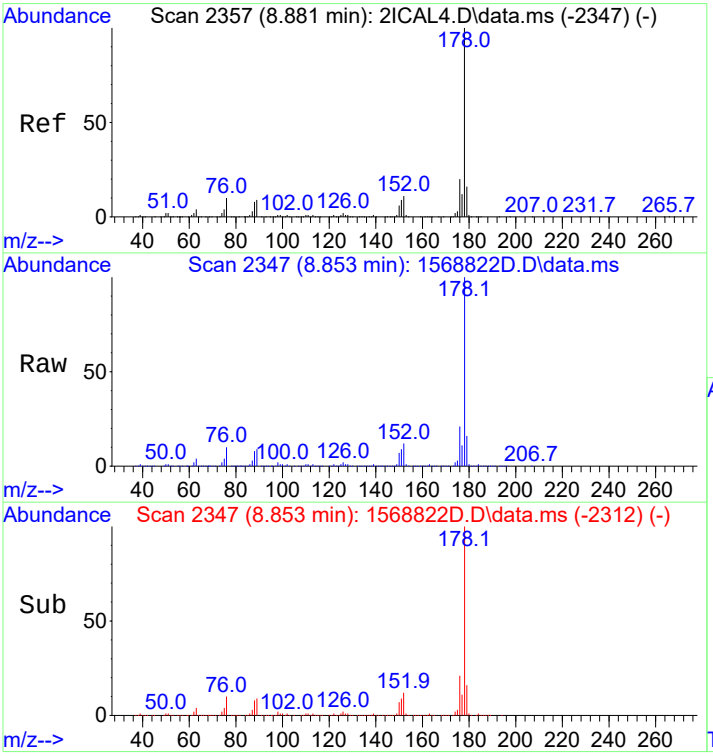



#66
Azobenz&12Diphlhyd
Concen: 2.28 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:182 Resp: 12586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.0 | 49.9 | 109.9# |
| 77 | 4.8 | 339.9 | 399.9# |

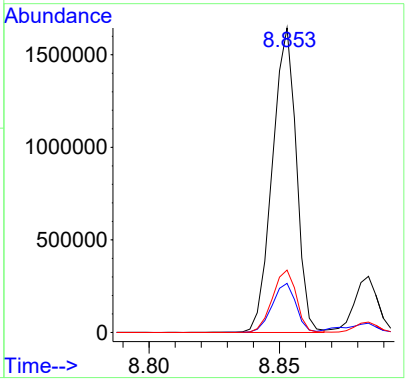


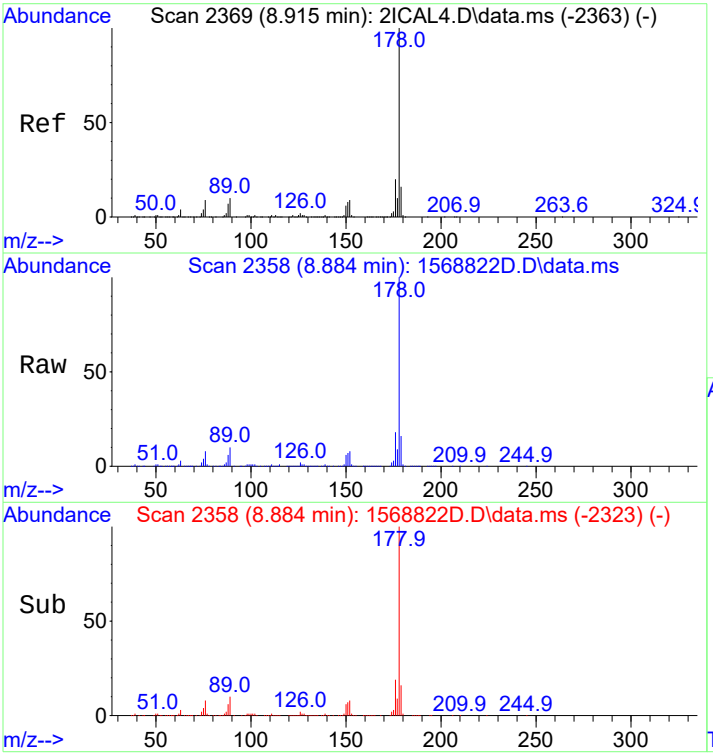




#70
Phenanthrene
Concen: 35.77 ug/mL
RT: 8.853 min Scan# 2347
Delta R.T. 0.000 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:178 Resp: 1047107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.1 | 0.0 | 45.9 |
| 176 | 20.5 | 0.0 | 50.4 |

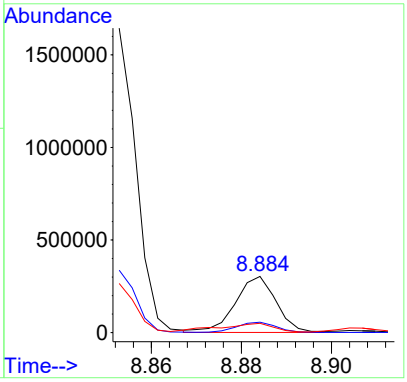


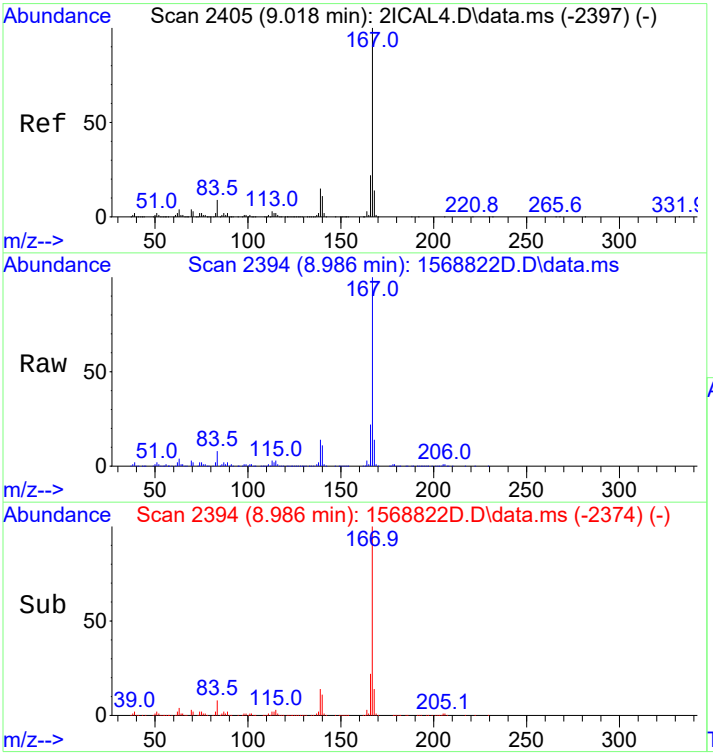



#71
Anthracene
Concen: 6.44 ug/mL
RT: 8.884 min Scan# 2358
Delta R.T. 0.000 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:178 Resp: 191948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 0.0 | 49.5 |
| 179 | 13.9 | 0.0 | 45.9 |

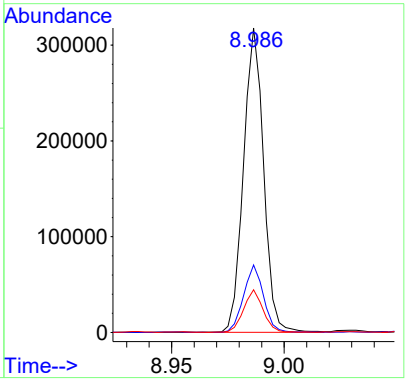


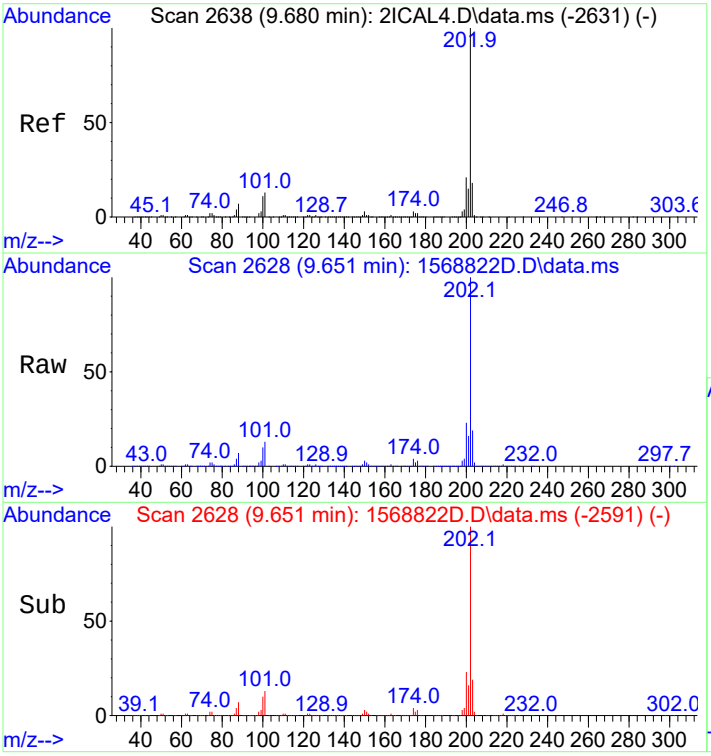




#72
Carbazole
Concen: 7.79 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:167 Resp: 197514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.1 | 0.0 | 52.1 |
| 139 | 13.8 | 0.0 | 44.7 |

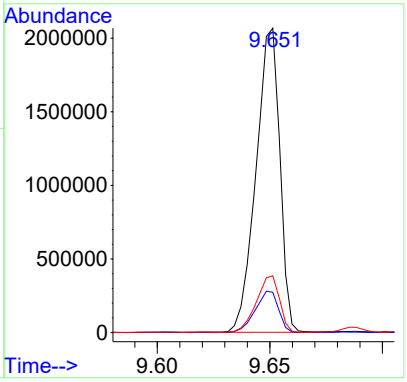


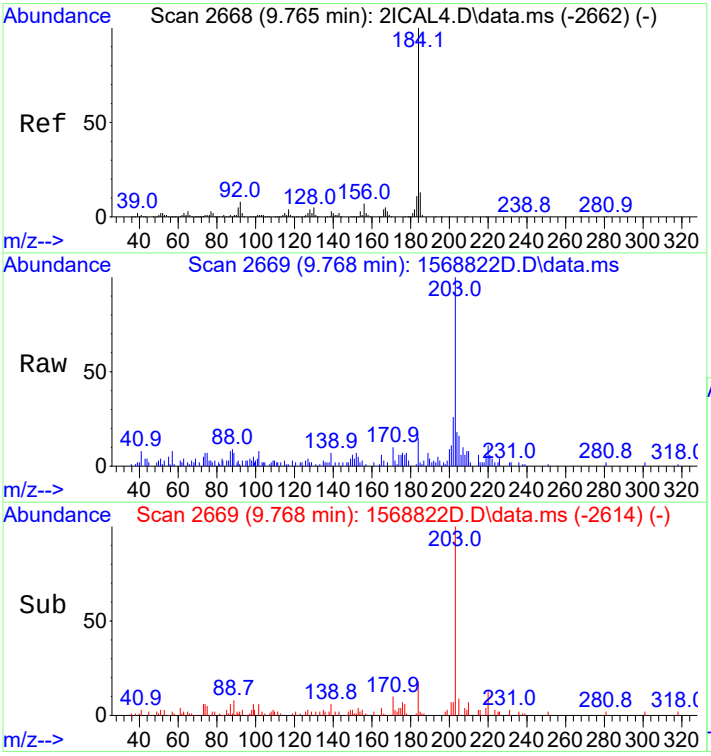



#74
Fluoranthene
Concen: 49.23 ug/mL
RT: 9.651 min Scan# 2628
Delta R.T. 0.006 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:202 Resp: 1521803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.2 | 0.0 | 43.0 |
| 203 | 18.5 | 0.0 | 48.2 |

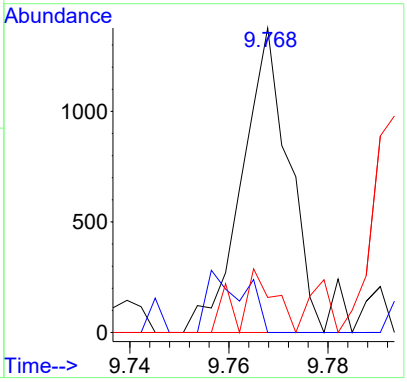


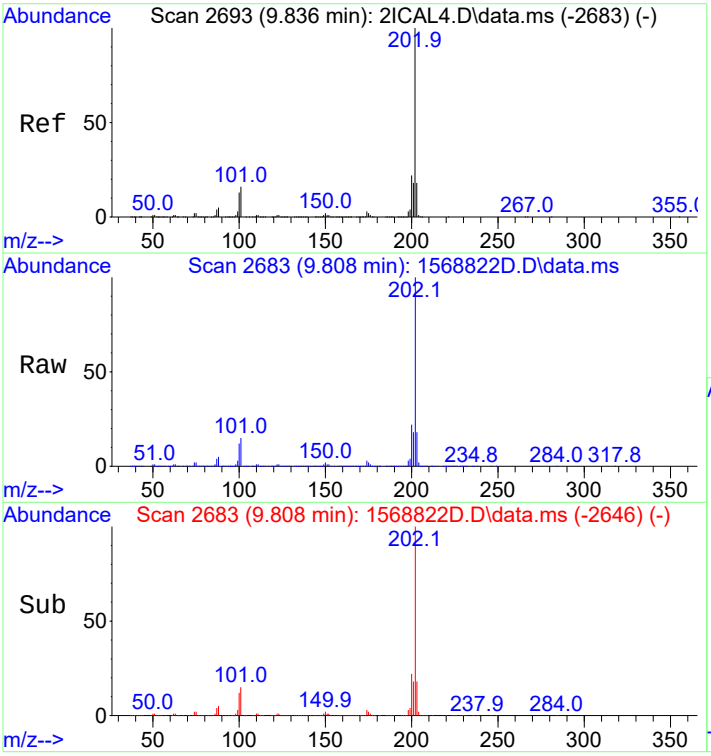




#76
Benzidine
Concen: Below Cal
RT: 9.768 min Scan# 2669
Delta R.T. 0.037 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:184 Resp: 897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 0.0 | 0.0 | 38.2 |
| 185 | 19.1 | 0.0 | 43.3 |

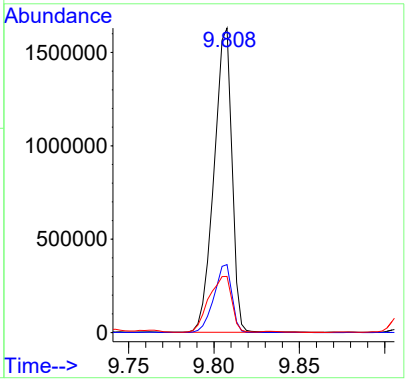


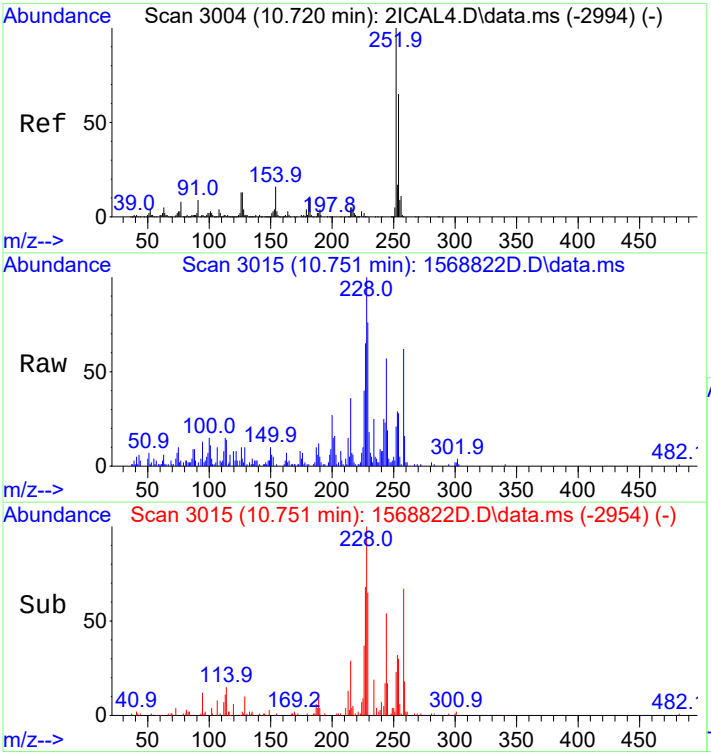



#77
Pyrene
Concen: 35.67 ug/mL
RT: 9.808 min Scan# 2683
Delta R.T. 0.006 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:202 Resp: 1188201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.3 | 0.0 | 52.2 |
| 203 | 18.4 | 0.0 | 48.2 |

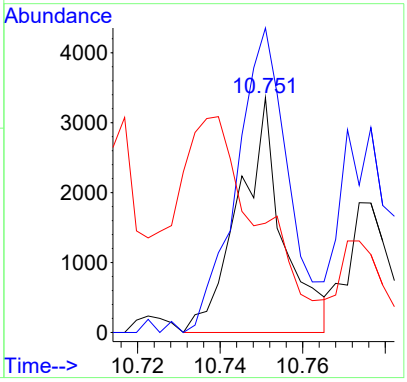


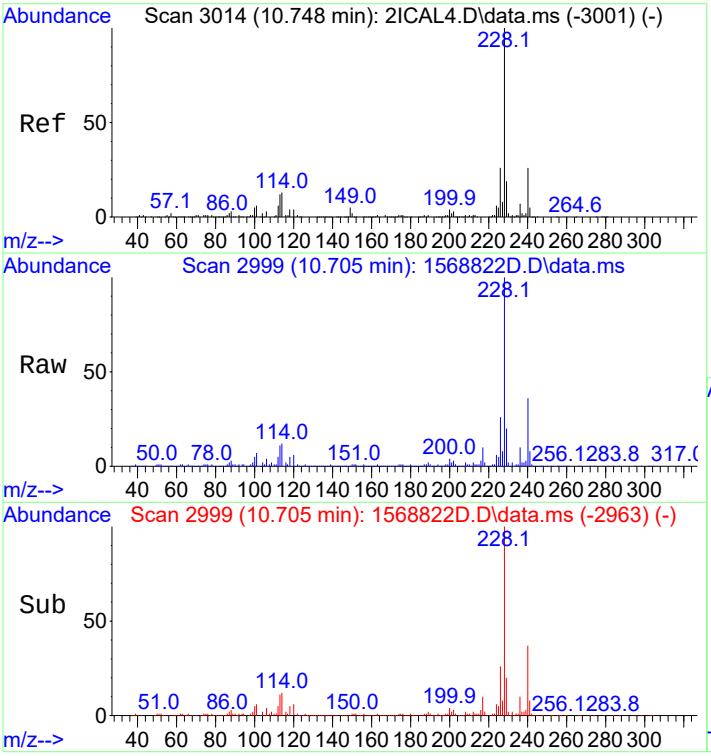




#81
33Diclbnzidin
Concen: 0.11 ug/mL
RT: 10.751 min Scan# 3015
Delta R.T. 0.074 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:252 Resp: 2501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 129.7 | 34.6 | 94.6# |
| 126 | 32.5 | 0.0 | 42.6 |

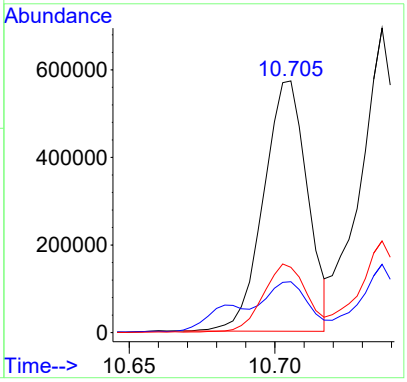


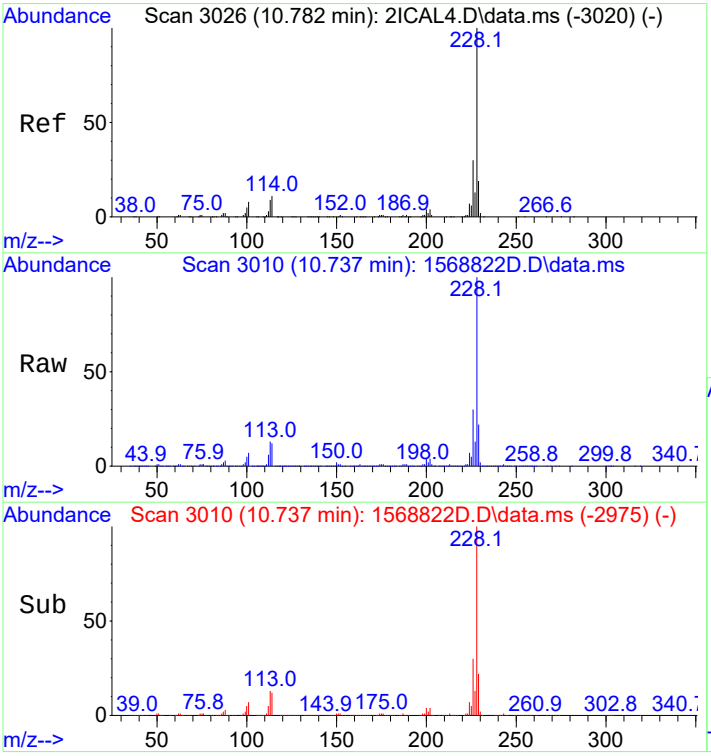



#82
B[a]anthracen
Concen: 18.95 ug/mL
RT: 10.705 min Scan# 2999
Delta R.T. 0.003 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:228 Resp: 598485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.3 | 0.0 | 49.4 |
| 226 | 25.9 | 0.0 | 56.5 |

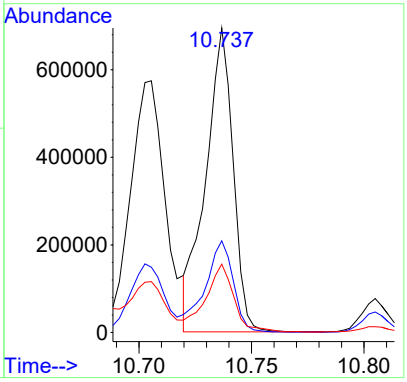


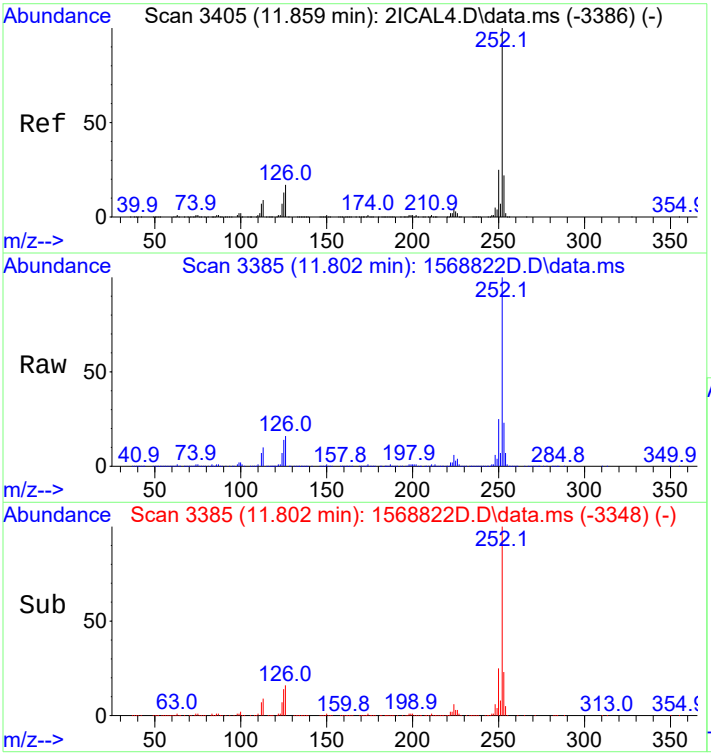




#83
Chrysene
Concen: 19.92 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. 0.000 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:228 Resp: 590020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.1 | 0.0 | 59.9 |
| 229 | 22.3 | 0.0 | 49.5 |

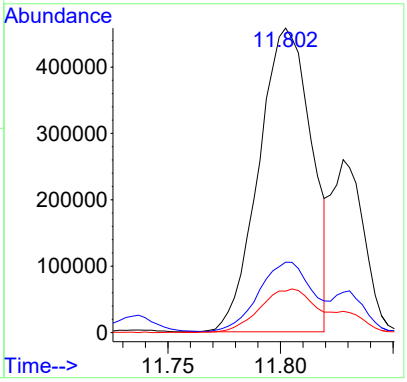


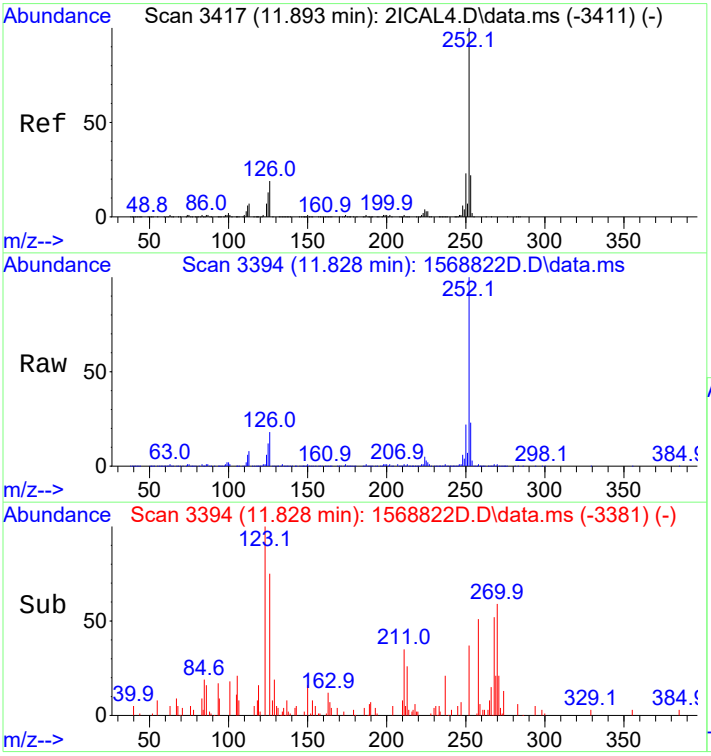



#87
B[b]fluoranth
Concen: 28.27 ug/mL
RT: 11.802 min Scan# 3385
Delta R.T. 0.006 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:252 Resp: 746443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 0.0 | 52.3 |
| 125 | 13.6 | 0.0 | 43.2 |

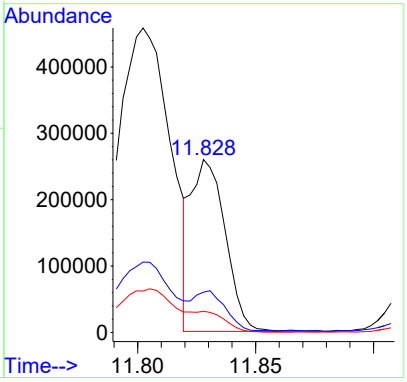


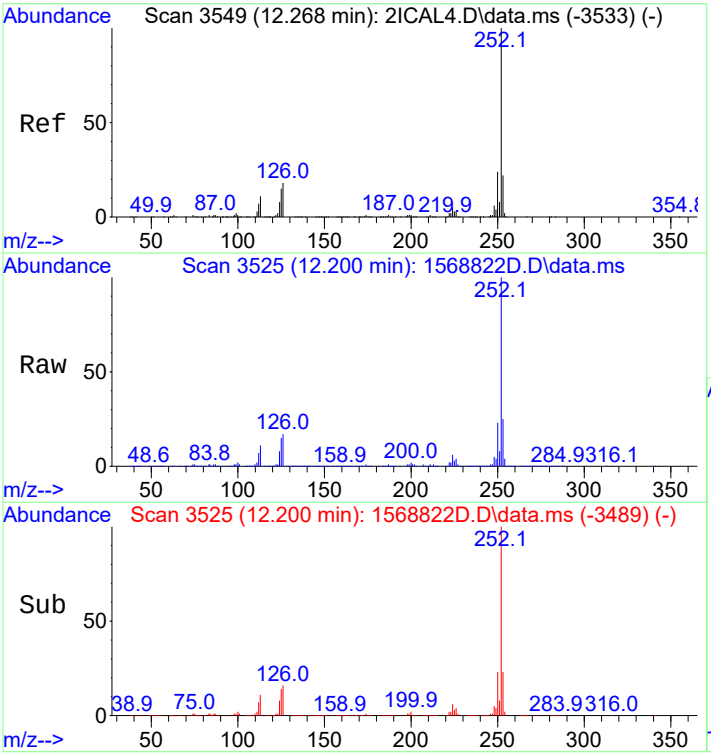




#88
B[k]fluoranth
Concen: 9.87 ug/mL
RT: 11.828 min Scan# 3394
Delta R.T. -0.003 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:252 Resp: 261133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 0.0 | 52.0 |
| 125 | 12.0 | 0.0 | 43.3 |

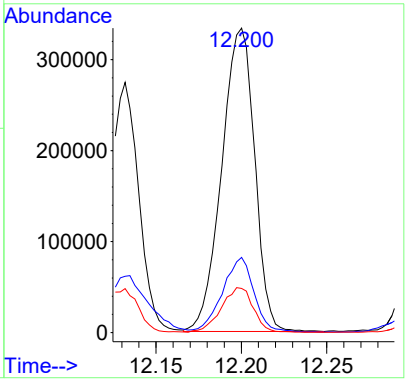


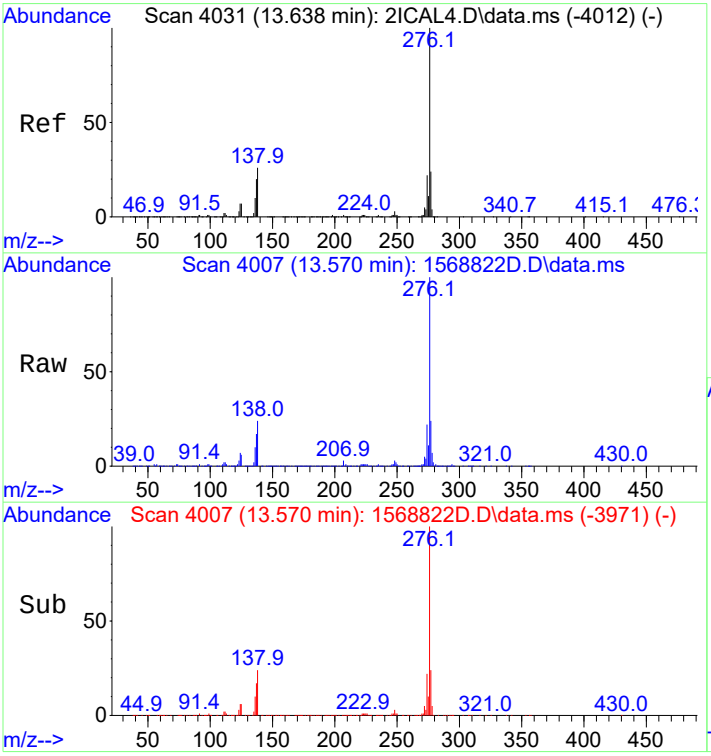



#89
Benz[a]pyrene
Concen: 18.42 ug/mL
RT: 12.200 min Scan# 3525
Delta R.T. 0.003 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:252 Resp: 447391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.6 | 0.0 | 52.3 |
| 125 | 14.4 | 0.0 | 45.1 |

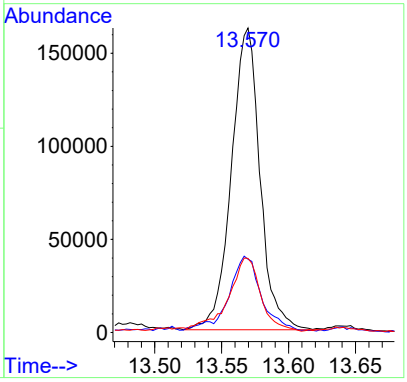


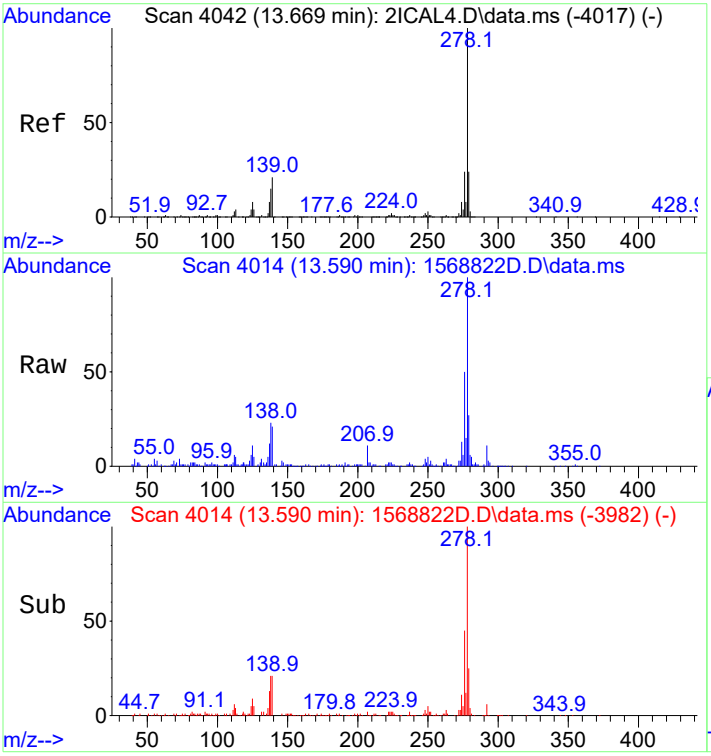




#90
Indeno-pyrene
Concen: 9.01 ug/mL
RT: 13.570 min Scan# 4007
Delta R.T. 0.003 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:276 Resp: 242000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.5 | 0.0 | 55.5 |
| 277 | 23.5 | 0.0 | 54.0 |

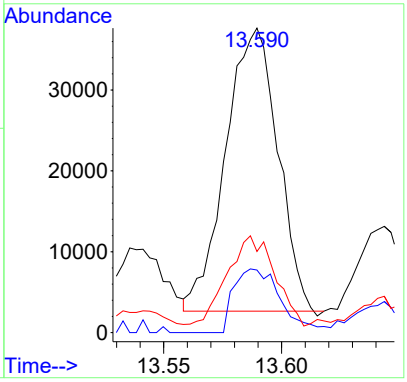


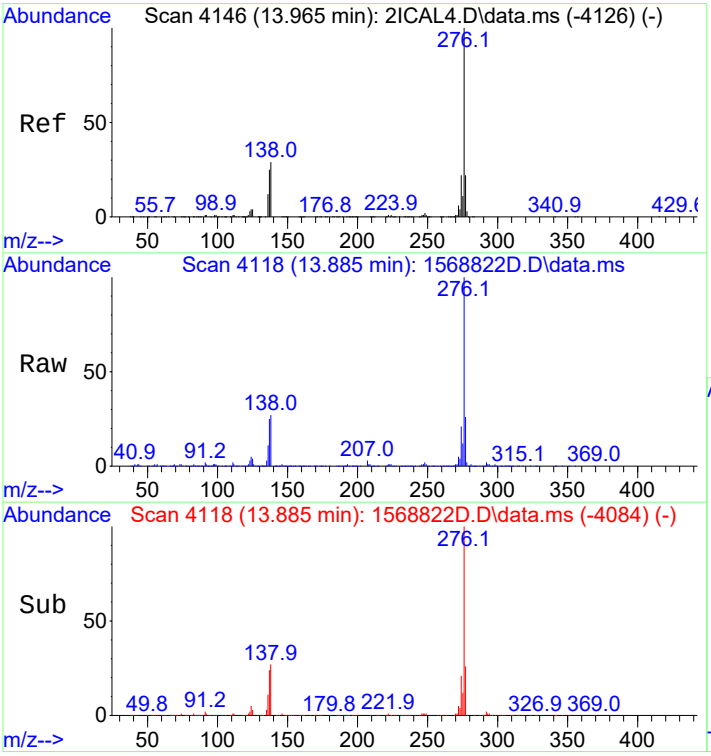



#91
Dib[ah]anthr
Concen: 2.45 ug/mL
RT: 13.590 min Scan# 4014
Delta R.T. -0.009 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:278 Resp: 53736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.1 | 0.0 | 50.9 |
| 279 | 25.8 | 0.0 | 54.4 |

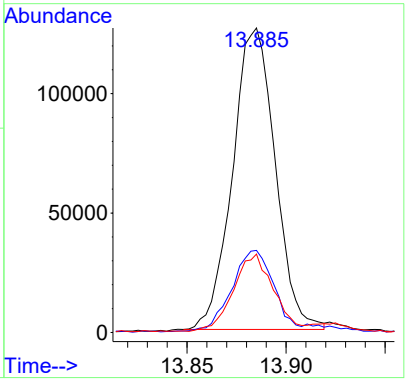



#92
B[ghi]perylen
Concen: 8.98 ug/mL
RT: 13.885 min Scan# 4118
Delta R.T. -0.003 min
Lab File: 1568822D.D
Acq: 11 Apr 2025 16:28

Tgt Ion:276 Resp: 189025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.8 | 0.0 | 59.0 |
| 277 | 25.5 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568846D.D Vial: 16
Acq On : 11 Apr 2025 16:51 Operator: JJY
Sample : 290730,1568846,5 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:38 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

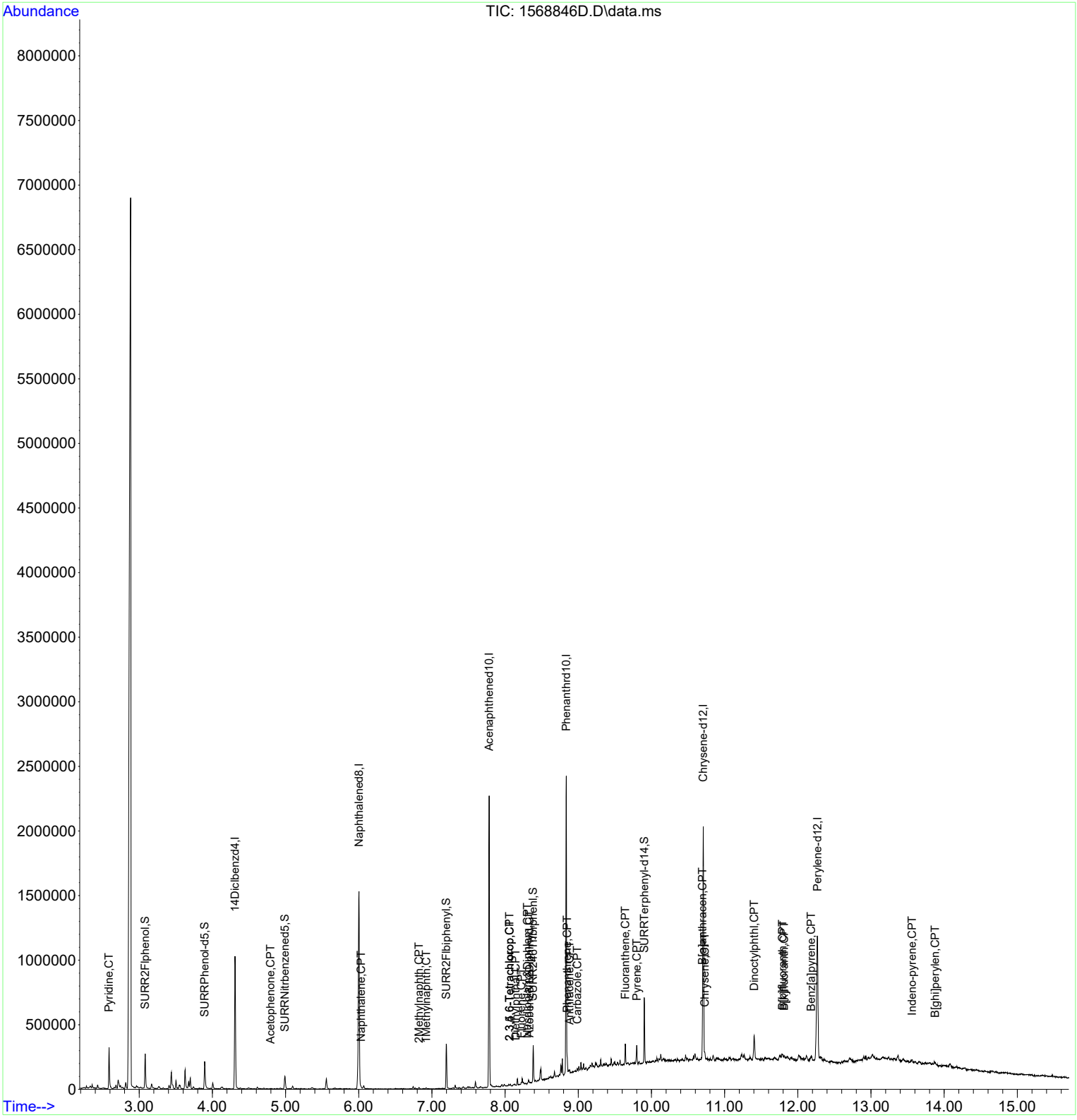
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 151810 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.003 | 136 | 730765 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 411650 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 591822 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.708 | 240 | 509092 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.268 | 264 | 460035 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.082 | 112 | 56932 | 15.58 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 15.58% | | | |
| 7) SURRPhenol-d5 | 3.894 | 99 | 74204 | 16.89 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 16.89% | | | |
| 22) SURRNitrbenzened5 | 4.991 | 82 | 32694 | 16.42 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 16.42% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 94796 | 19.30 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 19.30% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 21023 | 19.08 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 19.08% | | | |
| 78) SURRTerphenyl-d14 | 9.901 | 244 | 110694 | 22.30 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 22.30% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Pyridine | 2.585 | 79 | 1160 | 0.1104 | ug/mL | 80 |
| 17) Acetophenone | 4.795 | 105 | 1282 | 0.0903 | ug/mL# | 44 |
| 31) Naphthalene | 6.031 | 128 | 4069 | 0.1207 | ug/mL | 87 |
| 37) 2Methylnaphth | 6.824 | 142 | 2493 | 0.1224 | ug/mL | 92 |
| 38) 1Methylnaphth | 6.923 | 142 | 1651 | 0.0784 | ug/mL | 97 |
| 56) 2,3,5,6-Tetrachlorop | 8.063 | 232 | 222 | 0.5897 | ug/mL# | 21 |
| 57) 2,3,4,6-Tetrachlorop | 8.063 | 232 | 222 | 0.3637 | ug/mL# | 17 |
| 58) Fluorene | 8.222 | 166 | 1304 | 0.0597 | ug/mL# | 66 |
| 60) Diethylphthal | 8.145 | 149 | 1308 | 0.0540 | ug/mL | 87 |
| 65) Ntrsdiphlam&Diphlam | 8.307 | 169 | 1588 | 0.1041 | ug/mL# | 36 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 1173 | 0.2156 | ug/mL# | 1 |
| 70) Phenanthrene | 8.850 | 178 | 24842 | 0.8616 | ug/mL | 94 |
| 71) Anthracene | 8.881 | 178 | 5050 | 0.1721 | ug/mL | 83 |
| 72) Carbazole | 8.986 | 167 | 3745 | 0.1499 | ug/mL | 81 |
| 74) Fluoranthene | 9.643 | 202 | 43279 | 1.4215 | ug/mL | 92 |
| 77) Pyrene | 9.799 | 202 | 33755 | 1.0439 | ug/mL | 98 |
| 82) B[a]anthracen | 10.697 | 228 | 18847 | 0.6149 | ug/mL | 95 |
| 83) Chrysene | 10.728 | 228 | 17708 | 0.6160 | ug/mL | 94 |
| 85) Dinoctylphthl | 11.404 | 149 | 20683 | 0.8357 | ug/mL# | 43 |
| 87) B[b]fluoranth | 11.791 | 252 | 24780 | 1.0169 | ug/mL | 96 |
| 88) B[k]fluoranth | 11.814 | 252 | 7630 | 0.3125 | ug/mL | 85 |
| 89) Benz[a]pyrene | 12.183 | 252 | 13806 | 0.6160 | ug/mL | 93 |
| 90) Indeno-pyrene | 13.561 | 276 | 8244 | 0.3326 | ug/mL | 87 |
| 92) B[ghi]perylen | 13.876 | 276 | 7339 | 0.3779 | ug/mL | 95 |

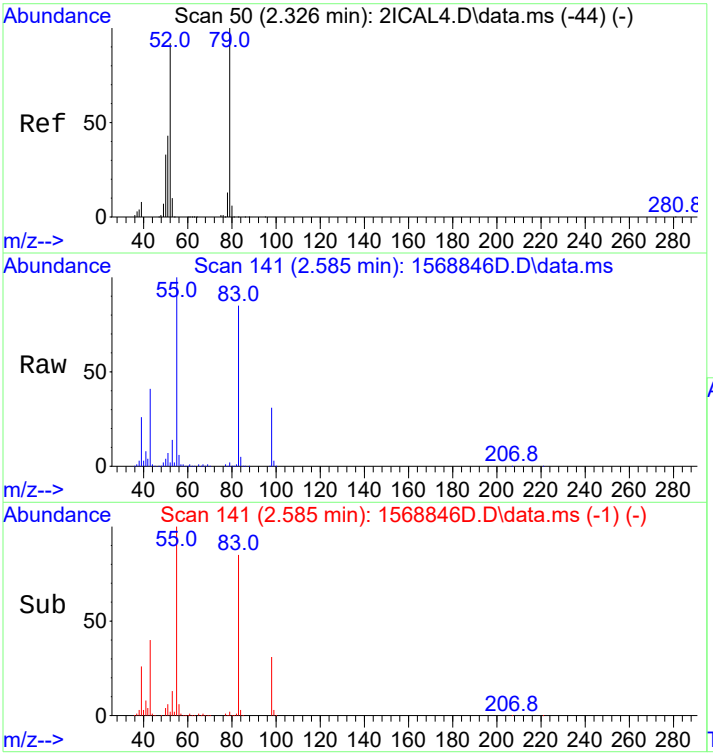
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568846D.D Vial: 16
Acq On : 11 Apr 2025 16:51 Operator: JJY
Sample : 290730,1568846,5 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:38 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

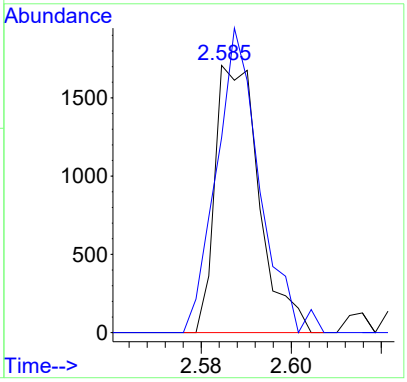


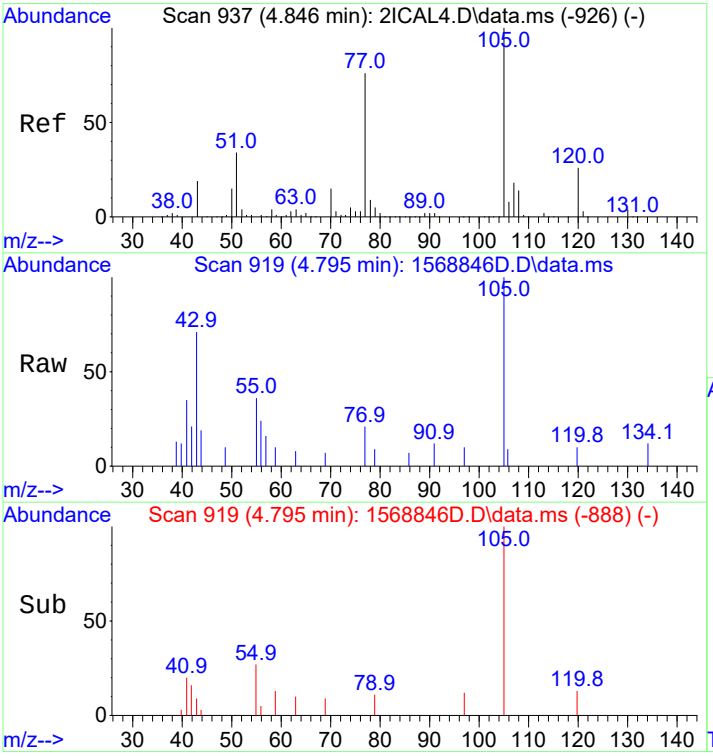



#3
Pyridine
Concen: 0.11 ug/mL
RT: 2.585 min Scan# 141
Delta R.T. 0.290 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion: 79 Resp: 1160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 73.0 | 62.5 | 122.5 |

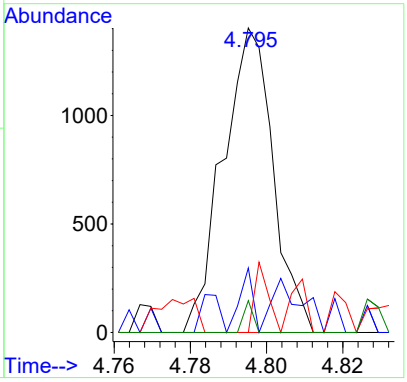


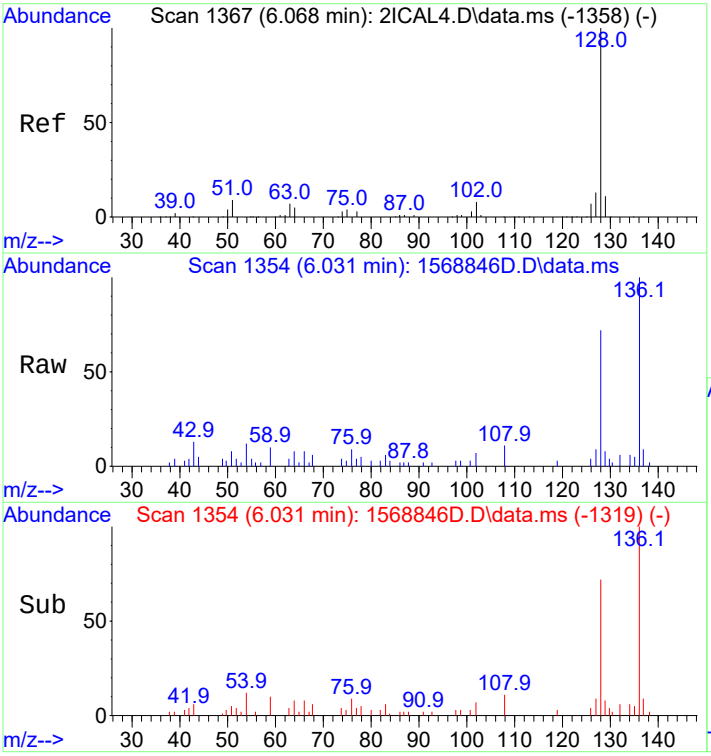




#17
Acetophenone
Concen: 0.09 ug/mL
RT: 4.795 min Scan# 919
Delta R.T. -0.011 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:105 Resp: 1282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 77 | 21.2 | 46.3 | 106.3# |
| 51 | 0.0 | 3.7 | 63.7# |
| 120 | 10.5 | 0.0 | 55.6 |

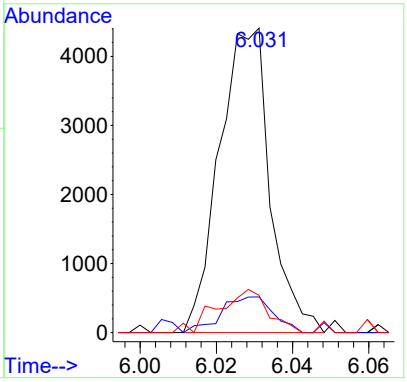


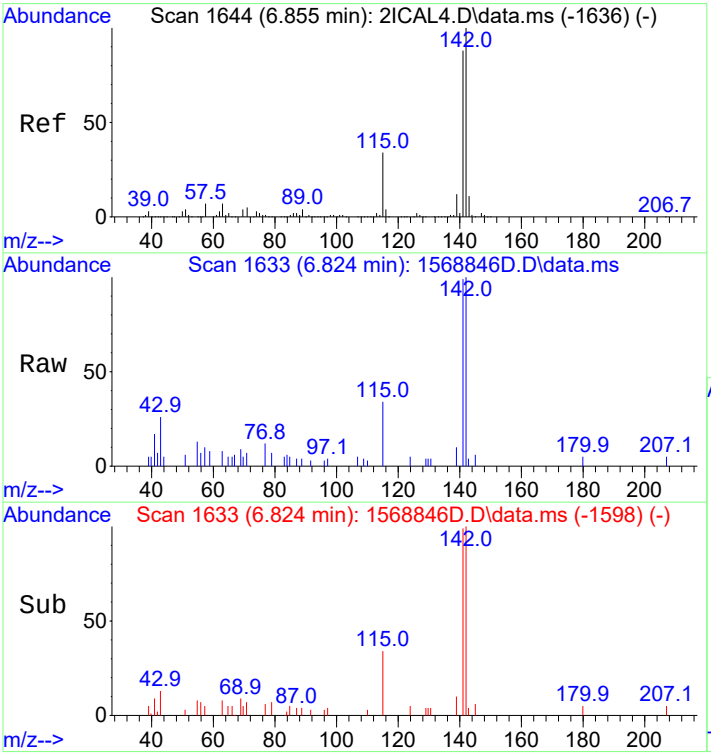



#31
Naphthalene
Concen: 0.12 ug/mL
RT: 6.031 min Scan# 1354
Delta R.T. -0.000 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:128 Resp: 4069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 17.2 | 0.0 | 41.0 |
| 127 | 9.1 | 0.0 | 43.3 |

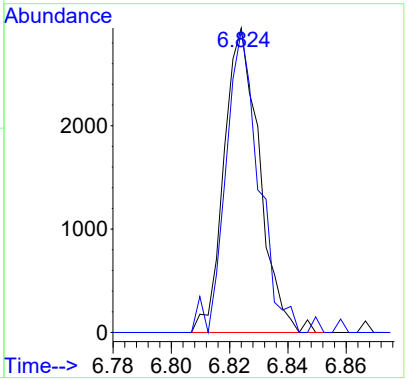


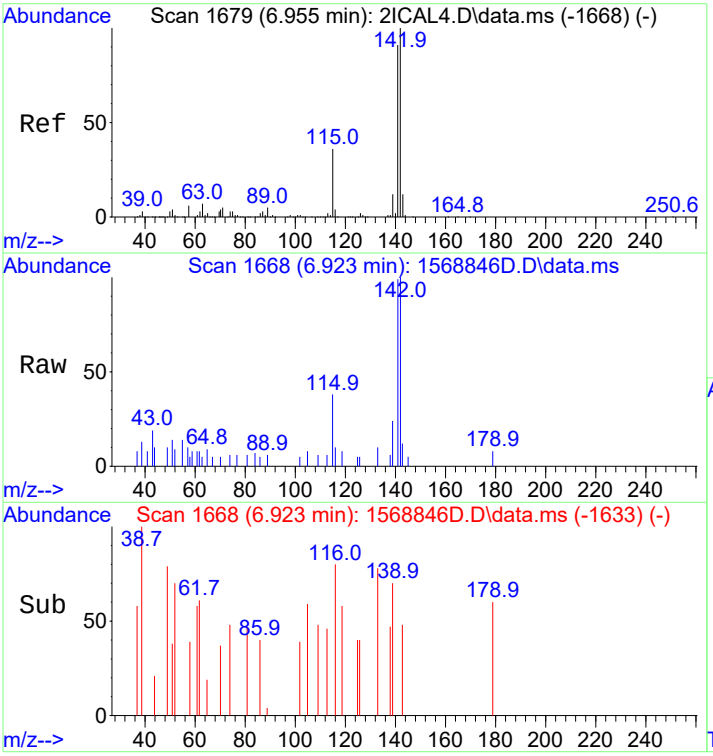




#37
2Methylnaphth
Concen: 0.12 ug/mL
RT: 6.824 min Scan# 1633
Delta R.T. -0.000 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:142 Resp: 2493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 95.1 | 58.0 | 118.0 |

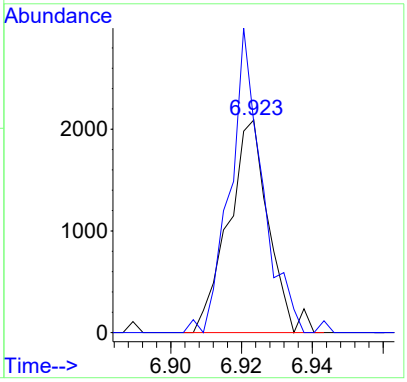


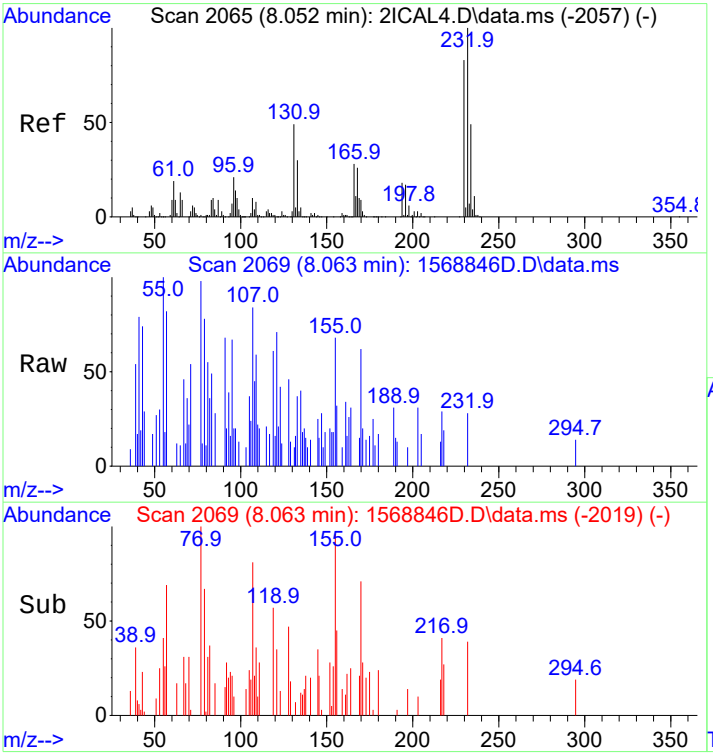



#38
1Methylnaphth
Concen: 0.08 ug/mL
RT: 6.923 min Scan# 1668
Delta R.T. -0.000 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:142 Resp: 1651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.1 | 60.7 | 120.7 |

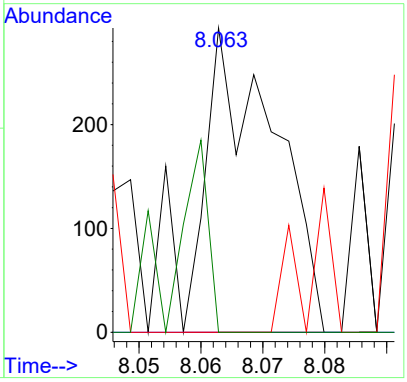


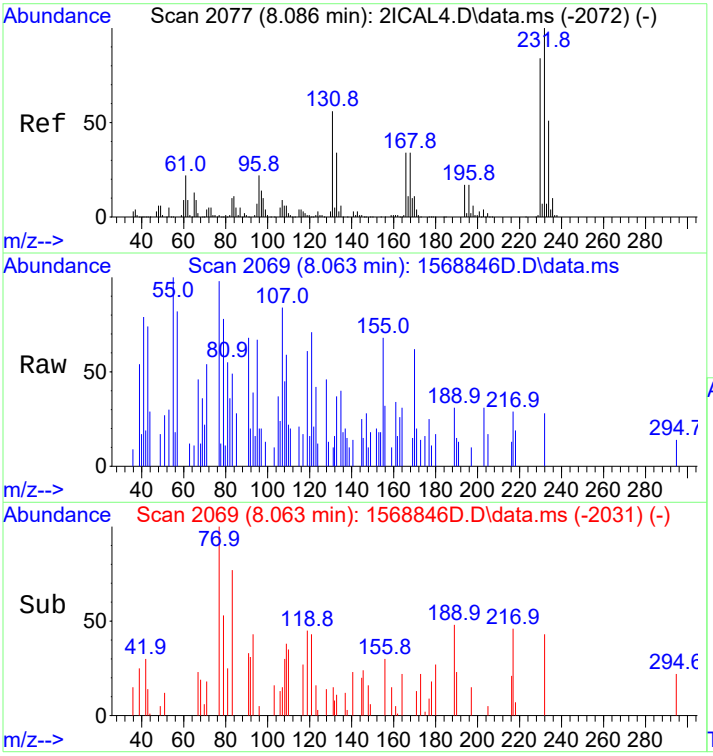




#56
2,3,5,6-Tetrachlorop
Concen: 0.59 ug/mL
RT: 8.063 min Scan# 2069
Delta R.T. 0.043 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:232 Resp: 222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 194 | 0.0 | 0.0 | 48.3 |
| 234 | 0.0 | 18.5 | 78.5# |
| 230 | 0.0 | 52.6 | 112.6# |

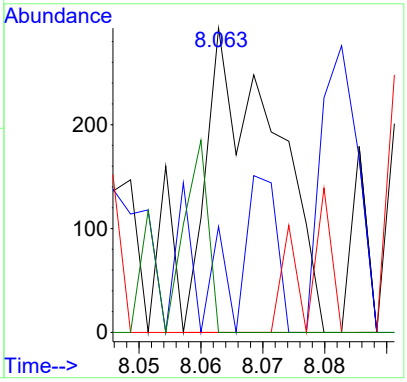


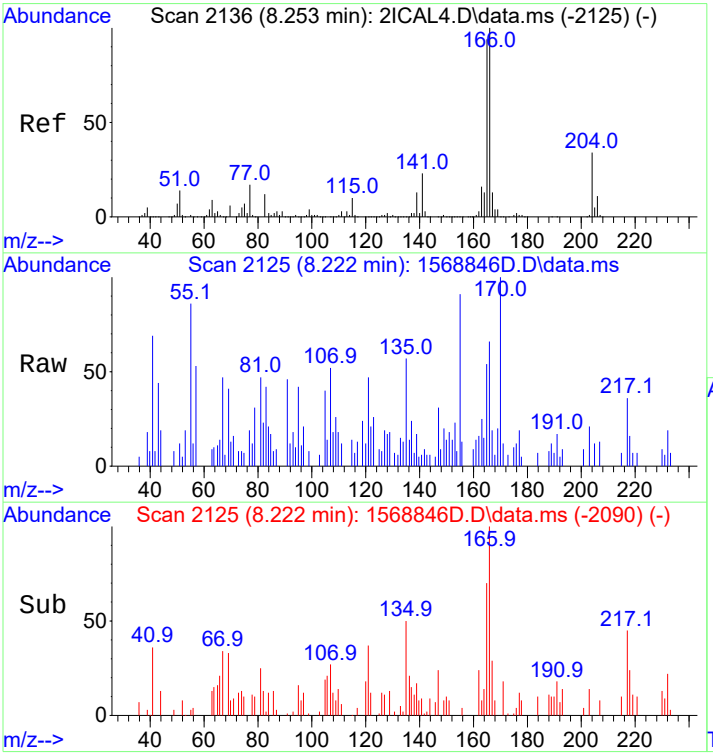



#57
2,3,4,6-Tetrachlorop
Concen: 0.36 ug/mL
RT: 8.063 min Scan# 2069
Delta R.T. 0.008 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:232 Resp: 222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 0.0 | 35.2 | 75.2# |
| 234 | 0.0 | 31.0 | 71.0# |
| 230 | 0.0 | 64.0 | 104.0# |

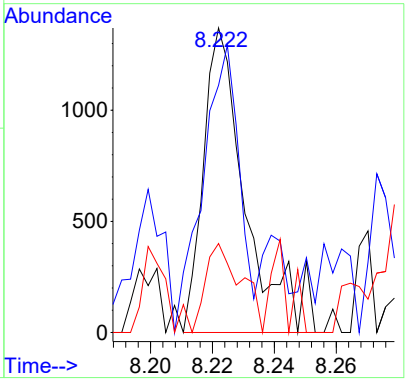


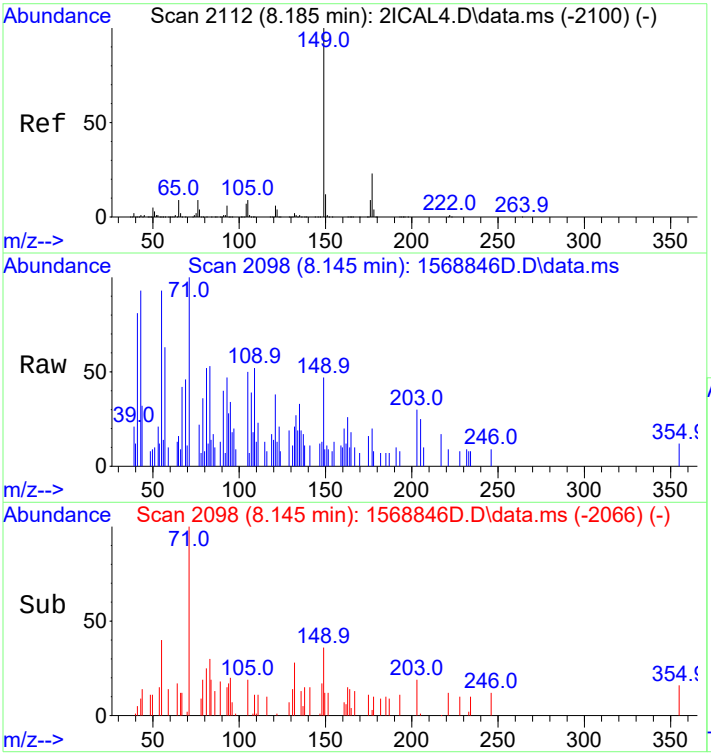




#58
Fluorene
Concen: 0.06 ug/mL
RT: 8.222 min Scan# 2125
Delta R.T. -0.000 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:166 Resp: 1304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 61.5 | 63.6 | 123.6# |
| 167 | 29.2 | 0.0 | 43.3 |

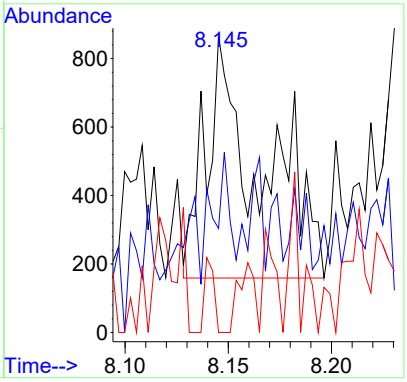


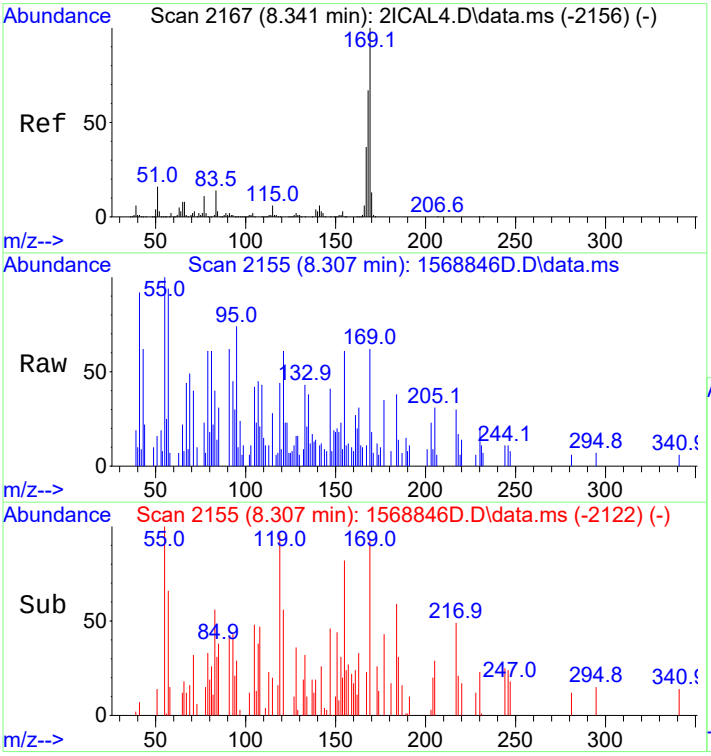



#60
Diethylphthal
Concen: 0.05 ug/mL
RT: 8.145 min Scan# 2098
Delta R.T. -0.009 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:149 Resp: 1308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 24.2 | 0.0 | 52.5 |
| 150 | 0.0 | 0.0 | 42.2 |

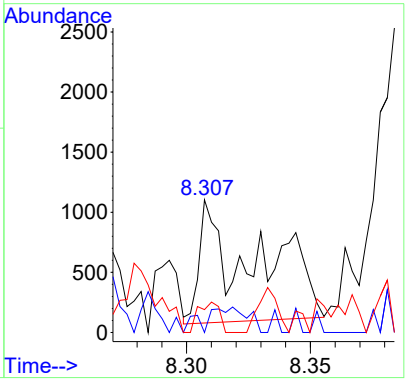


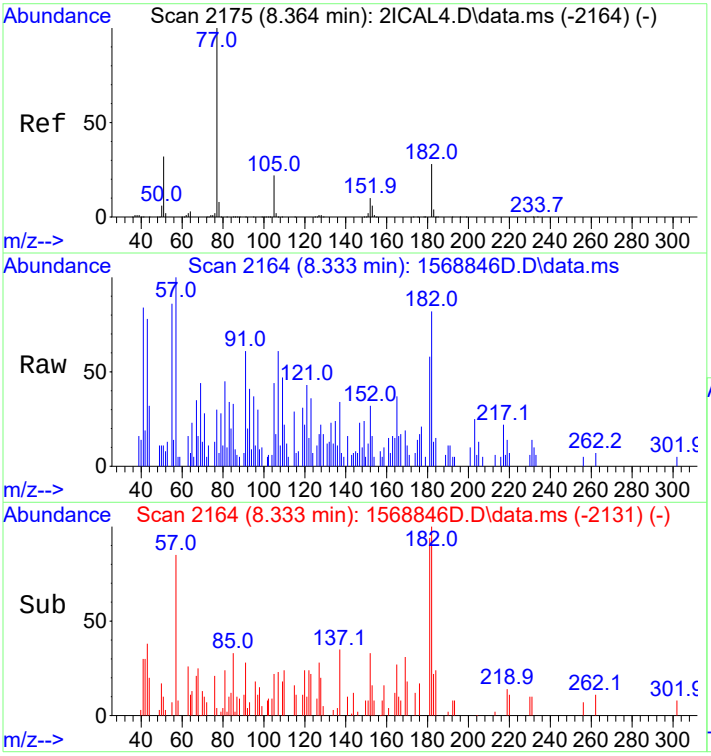




#65
Ntrsdiphlam&Diphlam
Concen: 0.10 ug/mL
RT: 8.307 min Scan# 2155
Delta R.T. -0.006 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:169 Resp: 1588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 0.0 | 37.2 | 97.2# |
| 167 | 19.4 | 6.9 | 66.9 |

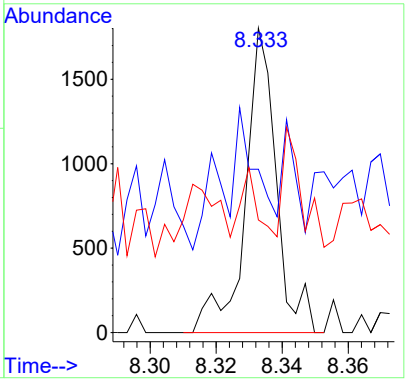


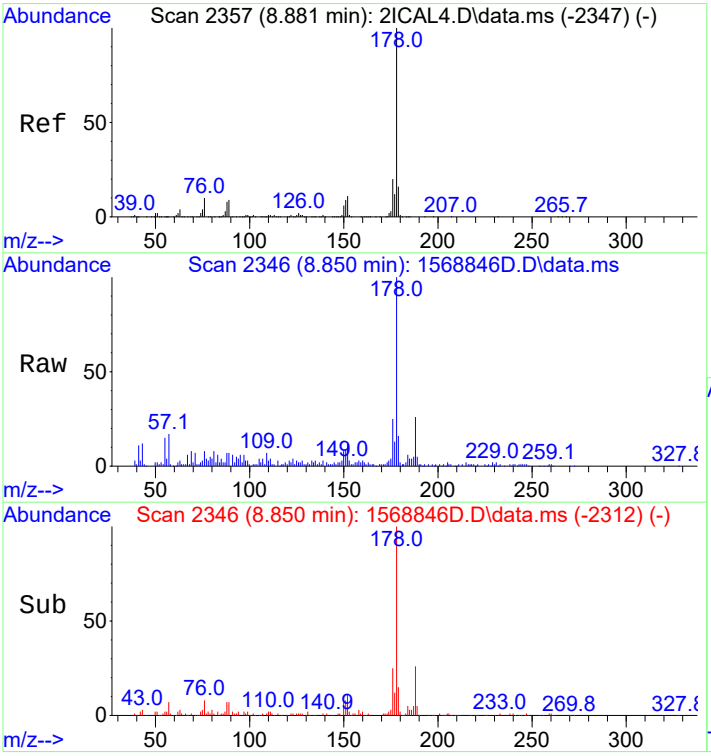



#66
Azobenz&12Diphlhyd
Concen: 0.22 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:182 Resp: 1173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 30.5 | 49.9 | 109.9# |
| 77 | 9.0 | 339.9 | 399.9# |

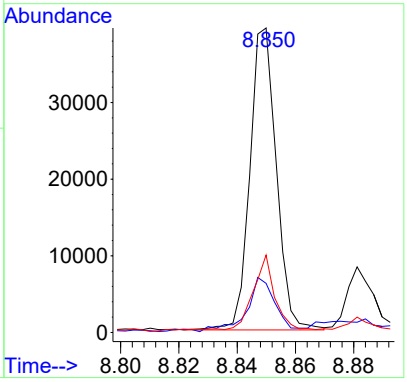


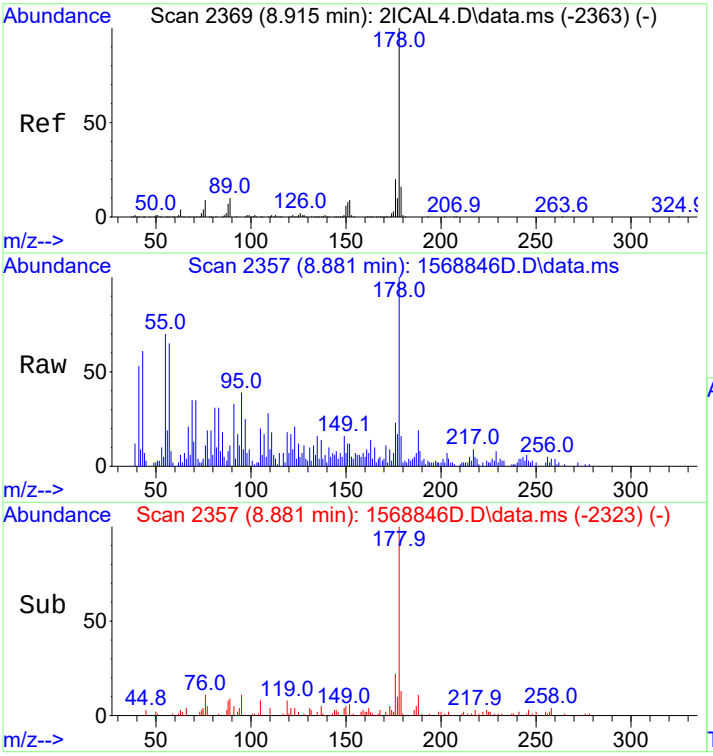




#70
Phenanthrene
Concen: 0.86 ug/mL
RT: 8.850 min Scan# 2346
Delta R.T. -0.003 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:178 Resp: 24842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.3 | 0.0 | 45.9 |
| 176 | 24.5 | 0.0 | 50.4 |

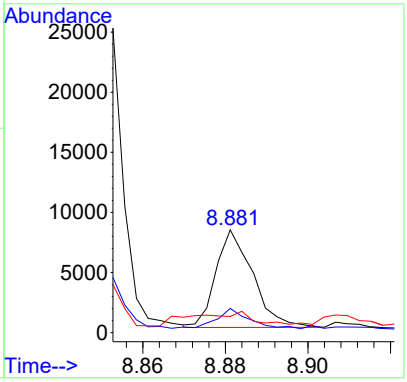


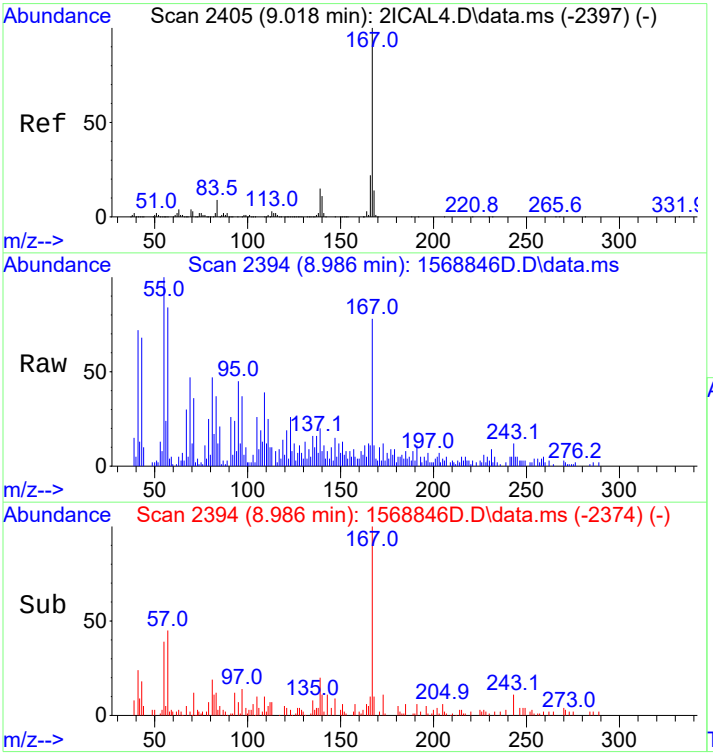



#71
Anthracene
Concen: 0.17 ug/mL
RT: 8.881 min Scan# 2357
Delta R.T. -0.003 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:178 Resp: 5050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.3 | 0.0 | 49.5 |
| 179 | 0.8 | 0.0 | 45.9 |

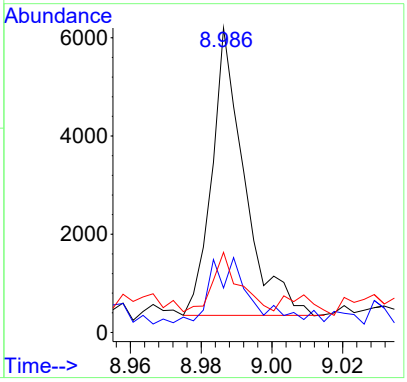


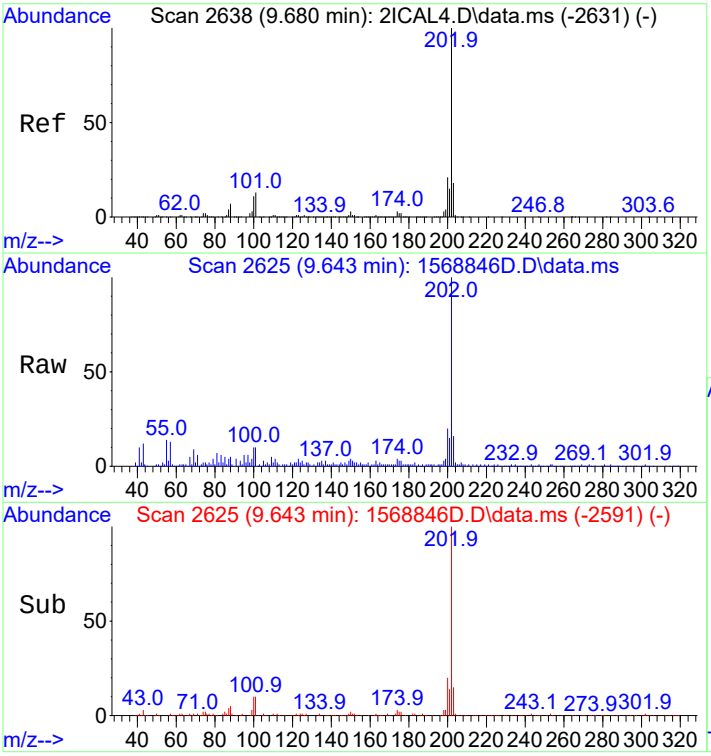




#72
Carbazole
Concen: 0.15 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:167 Resp: 3745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 11.7 | 0.0 | 52.1 |
| 139 | 20.7 | 0.0 | 44.7 |

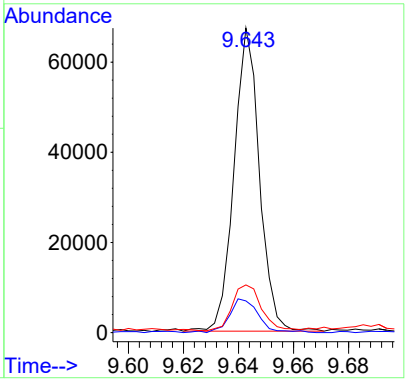


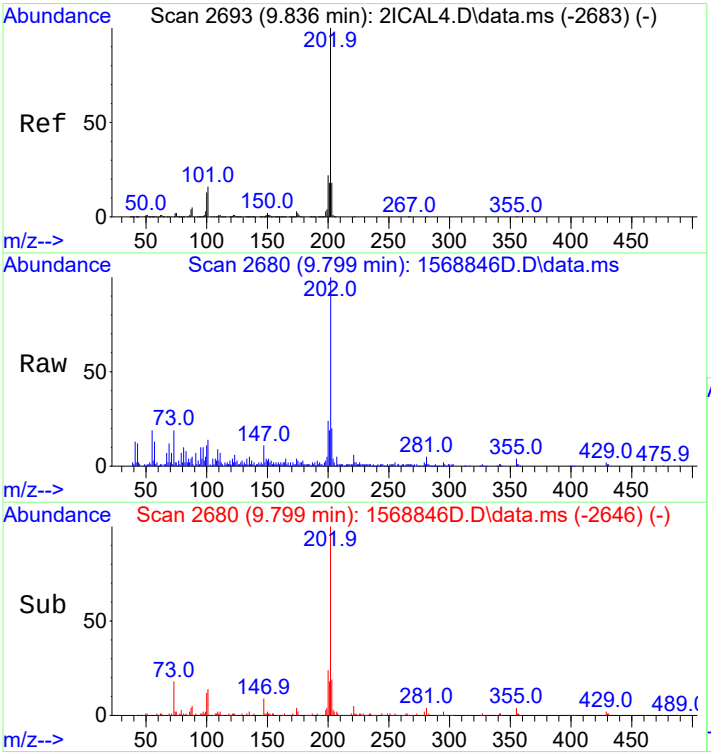



#74
Fluoranthene
Concen: 1.42 ug/mL
RT: 9.643 min Scan# 2625
Delta R.T. -0.003 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:202 Resp: 43279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 10.4 | 0.0 | 43.0 |
| 203 | 14.1 | 0.0 | 48.2 |

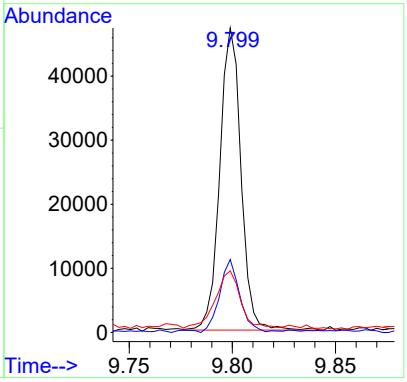


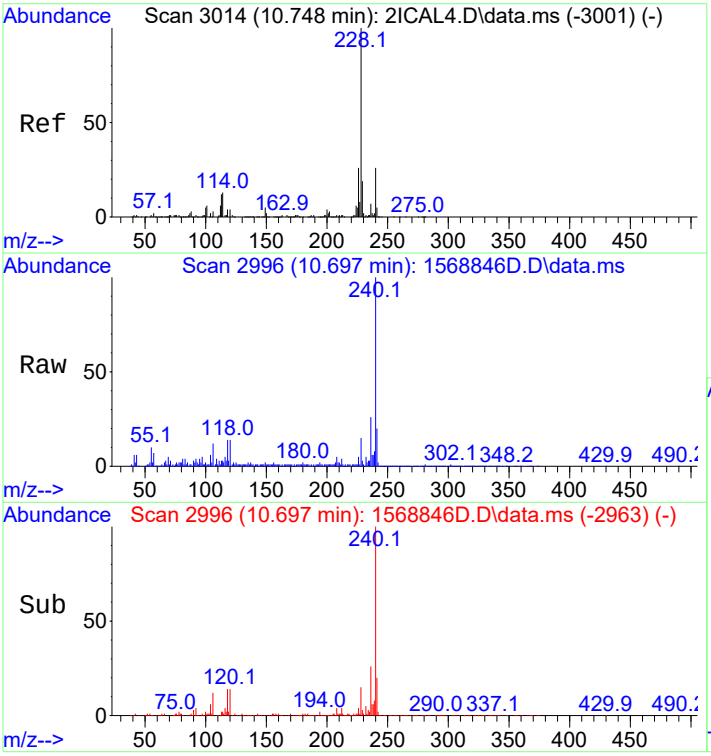




#77
Pyrene
Concen: 1.04 ug/mL
RT: 9.799 min Scan# 2680
Delta R.T. -0.003 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:202 Resp: 33755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 23.6 | 0.0 | 52.2 |
| 203 | 18.9 | 0.0 | 48.2 |

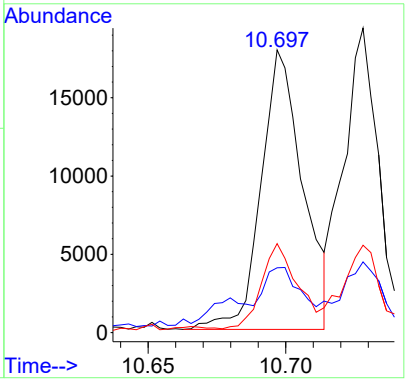


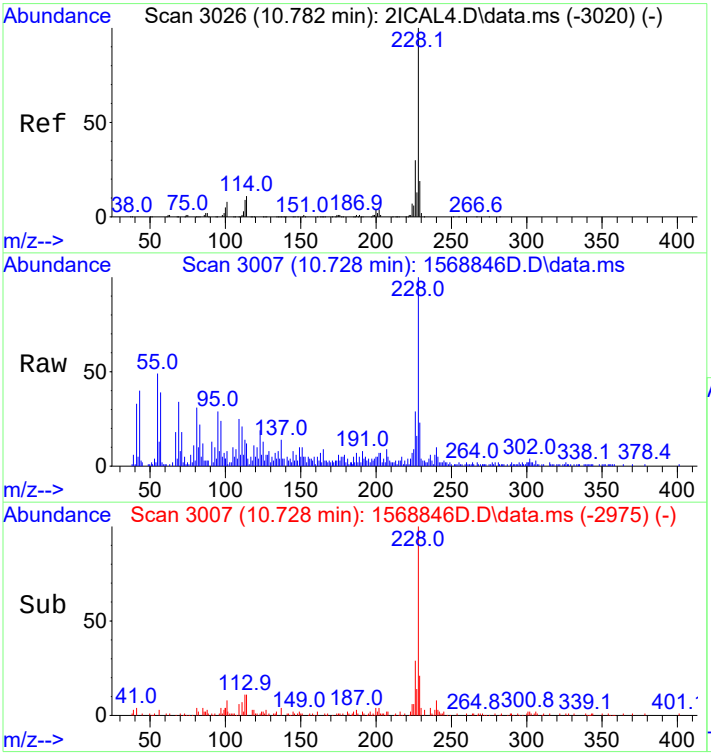



#82
B[a]anthracen
Concen: 0.61 ug/mL
RT: 10.697 min Scan# 2996
Delta R.T. -0.006 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:228 Resp: 18847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 18.3 | 0.0 | 49.4 |
| 226 | 30.0 | 0.0 | 56.5 |

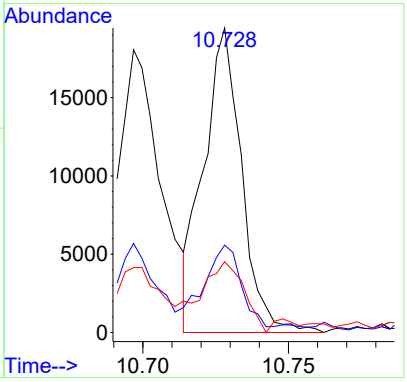


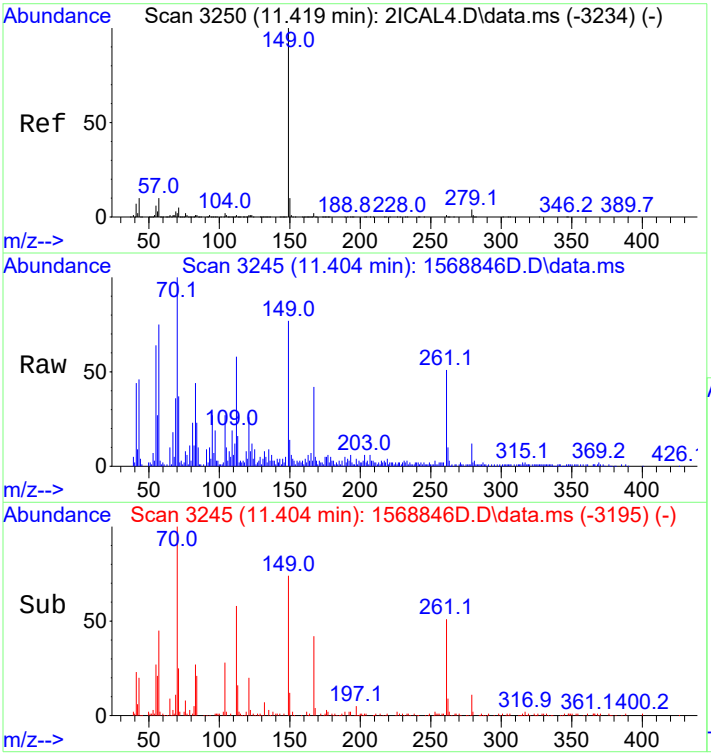




#83
Chrysene
Concen: 0.62 ug/mL
RT: 10.728 min Scan# 3007
Delta R.T. -0.009 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:228 Resp: 17708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 25.3 | 0.0 | 59.9 |
| 229 | 20.4 | 0.0 | 49.5 |

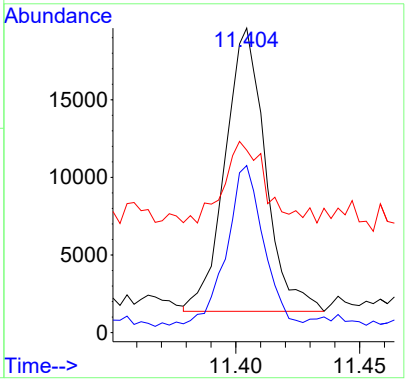


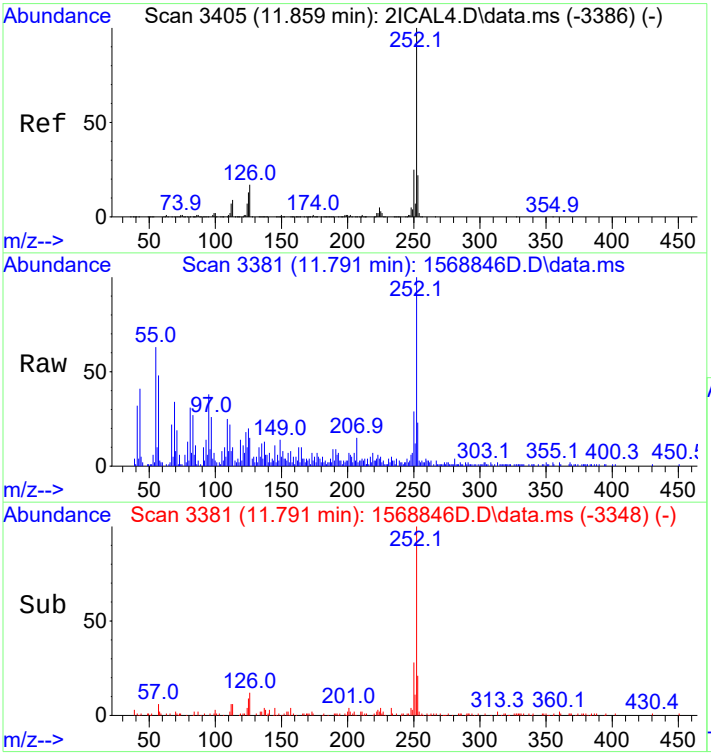



#85
Dinoctylphthl
Concen: 0.84 ug/mL
RT: 11.404 min Scan# 3245
Delta R.T. 0.043 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:149 Resp: 20683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 55.8 | 0.0 | 31.6# |
| 43 | 25.6 | 0.0 | 39.9 |

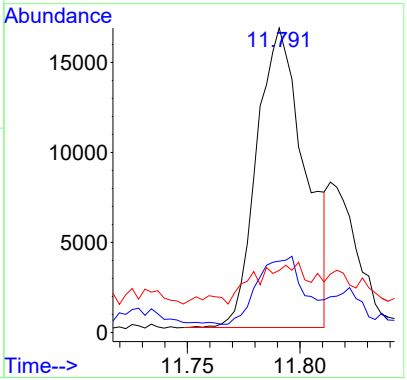


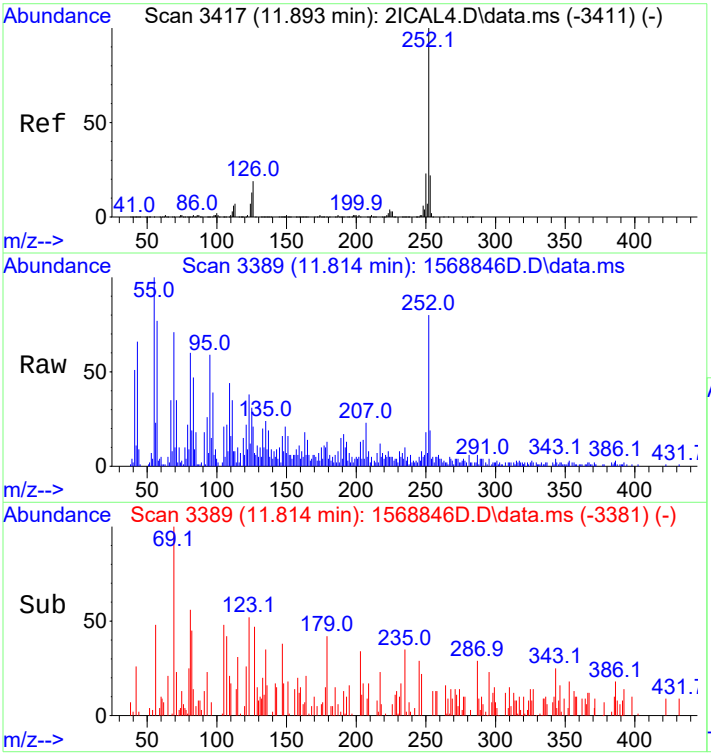




#87
B[b]fluoranth
Concen: 1.02 ug/mL
RT: 11.791 min Scan# 3381
Delta R.T. -0.006 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:252 Resp: 24780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 20.5 | 0.0 | 52.3 |
| 125 | 11.2 | 0.0 | 43.2 |

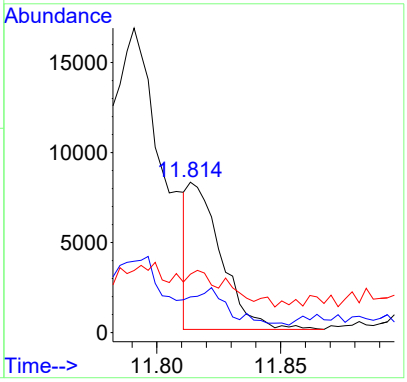


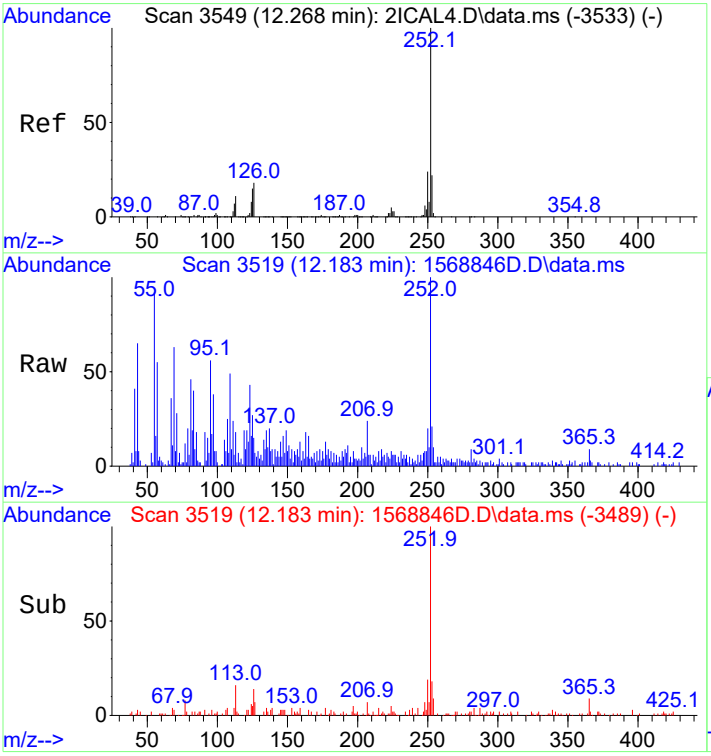



#88
B[k]fluoranth
Concen: 0.31 ug/mL
RT: 11.814 min Scan# 3389
Delta R.T. -0.017 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:252 Resp: 7630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 15.5 | 0.0 | 52.0 |
| 125 | 19.9 | 0.0 | 43.3 |

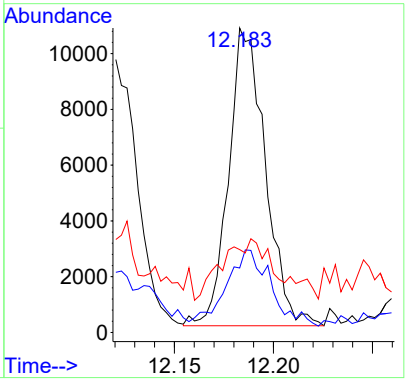


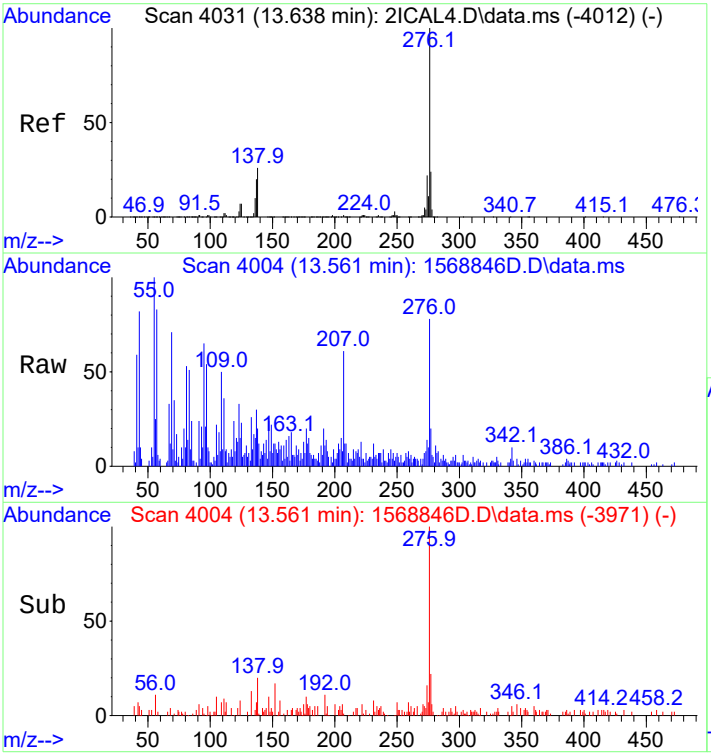




#89
Benz[a]pyrene
Concen: 0.62 ug/mL
RT: 12.183 min Scan# 3519
Delta R.T. -0.014 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:252 Resp: 13806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 17.7 | 0.0 | 52.3 |
| 125 | 13.6 | 0.0 | 45.1 |

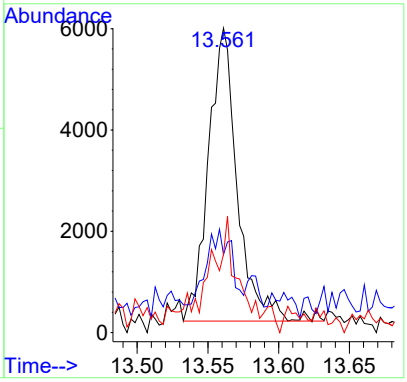


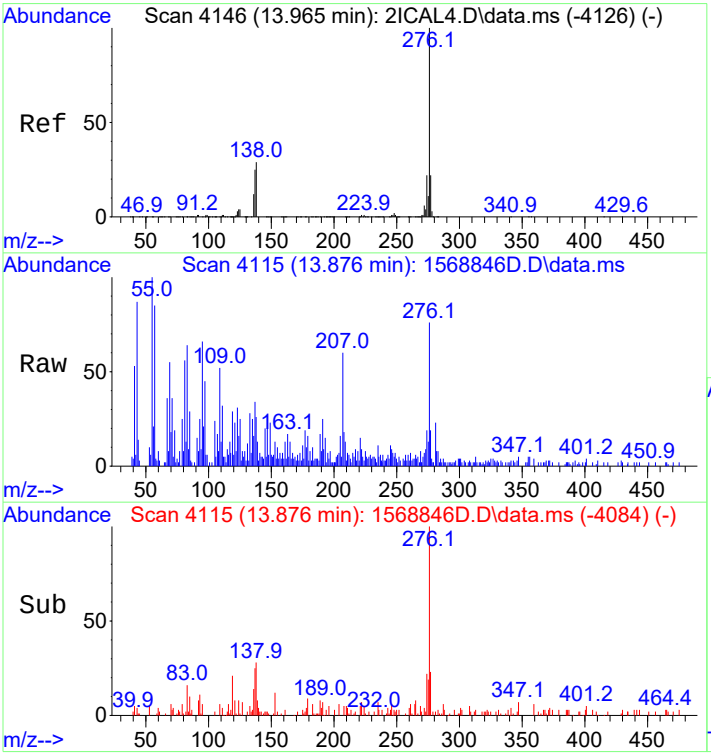



#90
Indeno-pyrene
Concen: 0.33 ug/mL
RT: 13.561 min Scan# 4004
Delta R.T. -0.006 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:276 Resp: 8244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 17.2 | 0.0 | 55.5 |
| 277 | 19.4 | 0.0 | 54.0 |

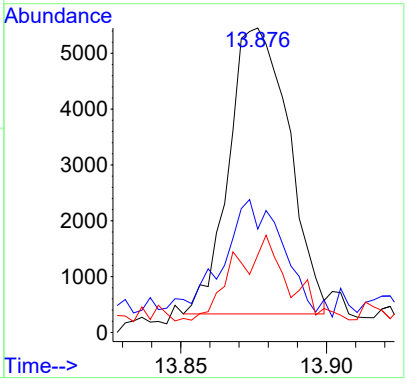



#92
B[ghi]perylen
Concen: 0.38 ug/mL
RT: 13.876 min Scan# 4115
Delta R.T. -0.011 min
Lab File: 1568846D.D
Acq: 11 Apr 2025 16:51

Tgt Ion:276 Resp: 7339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.7 | 0.0 | 59.0 |
| 277 | 22.2 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568838D.D Vial: 17
Acq On : 11 Apr 2025 17:14 Operator: JJY
Sample : 290730,1568838,20 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:22 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

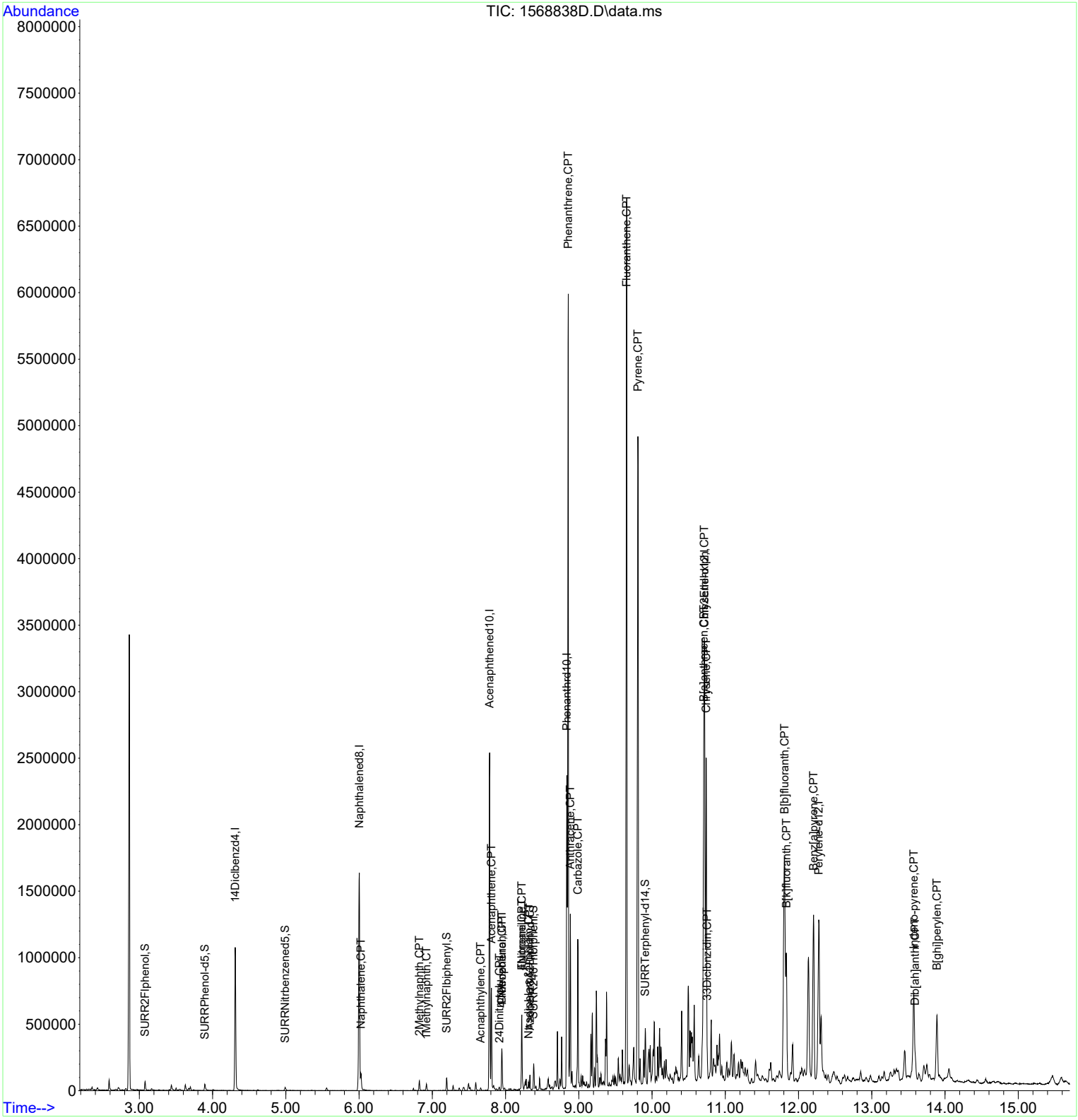
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 161591 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.003 | 136 | 798916 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 448432 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 663018 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.717 | 240 | 587908 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.277 | 264 | 592414 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.079 | 112 | 15297 | 3.93 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 3.93% | | | |
| 7) SURRPhenol-d5 | 3.895 | 99 | 19940 | 4.26 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.26% | | | |
| 22) SURRNitrbenzened5 | 4.991 | 82 | 8256 | 3.79 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 3.79% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 24676 | 4.61 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.61% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 6269 | 5.22 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.22% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 29886 | 5.21 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.21% | | | |
| Target Compounds | | | | | | Qvalue |
| 31) Naphthalene | 6.026 | 128 | 49787 | 1.3512 | ug/mL | 99 |
| 37) 2Methylnaphth | 6.824 | 142 | 18057 | 0.8109 | ug/mL | 91 |
| 38) 1Methylnaphth | 6.921 | 142 | 12324 | 0.5351 | ug/mL | 99 |
| 47) Acnaphthylene | 7.659 | 152 | 3580 | 0.0986 | ug/mL | 83 |
| 50) Acenaphthene | 7.807 | 154 | 137321 | 6.3665 | ug/mL | 99 |
| 53) Dibenzofuran | 7.949 | 168 | 102232 | 3.2822 | ug/mL | 97 |
| 54) 24Dinitrotolu | 7.918 | 165 | 641 | 0.0814 | ug/mL# | 29 |
| 55) 4-Nitrophenol | 7.952 | 65 | 570 | 1.3813 | ug/mL# | 1 |
| 58) Fluorene | 8.222 | 166 | 119444 | 5.0163 | ug/mL | 97 |
| 61) 4Nitroaniline | 8.222 | 138 | 1455 | 0.5797 | ug/mL# | 43 |
| 65) Ntrsdiphlam&Diphlam | 8.316 | 169 | 2123 | 0.1242 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 18449 | 3.0266 | ug/mL# | 1 |
| 70) Phenanthrene | 8.856 | 178 | 1570405 | 48.6165 | ug/mL | 98 |
| 71) Anthracene | 8.884 | 178 | 345434 | 10.5108 | ug/mL | 99 |
| 72) Carbazole | 8.986 | 167 | 304456 | 10.8792 | ug/mL | 99 |
| 74) Fluoranthene | 9.654 | 202 | 2075738 | 60.8554 | ug/mL | 98 |
| 76) Benzidine | 9.768 | 184 | 1328 | Below Cal | | 96 |
| 77) Pyrene | 9.808 | 202 | 1617703 | 43.3203 | ug/mL | 97 |
| 81) 33Diclbnzidin | 10.751 | 252 | 3253 | 0.1669 | ug/mL# | 29 |
| 82) B[a]anthracen | 10.705 | 228 | 825307 | 23.3167 | ug/mL | 98 |
| 83) Chrysene | 10.740 | 228 | 812350 | 24.4716 | ug/mL | 97 |
| 84) bis2Ethlhxlph | 10.711 | 149 | 3975 | 0.1476 | ug/mL | 82 |
| 87) B[b]fluoranth | 11.808 | 252 | 1029193 | 32.7965 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.834 | 252 | 330438 | 10.5097 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.206 | 252 | 627080 | 21.7287 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.573 | 276 | 337628 | 10.5774 | ug/mL | 100 |
| 91) Dib[ah]anthr | 13.590 | 278 | 76604 | 2.9359 | ug/mL | 90 |
| 92) B[ghi]perylen | 13.891 | 276 | 270510 | 10.8168 | ug/mL | 96 |

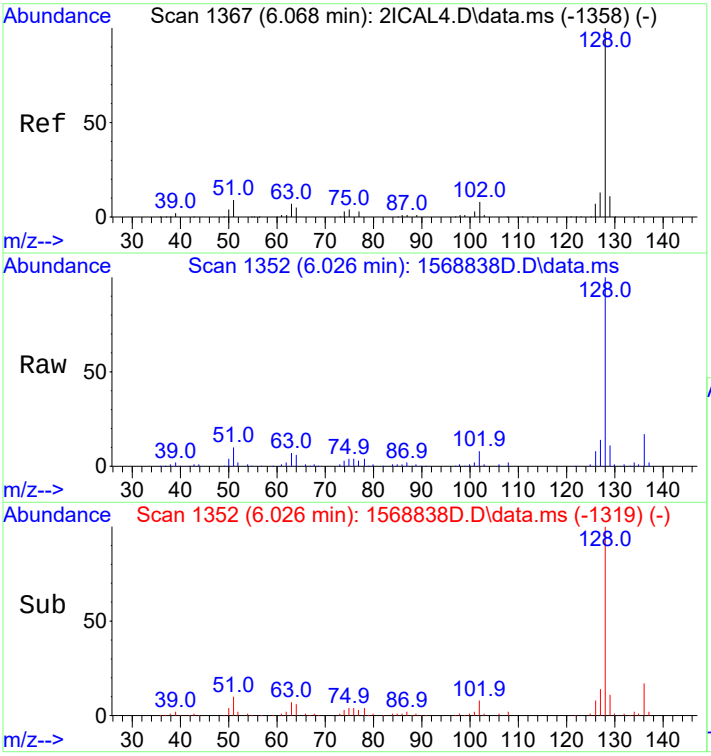
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568838D.D Vial: 17
Acq On : 11 Apr 2025 17:14 Operator: JJY
Sample : 290730,1568838,20 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:22 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

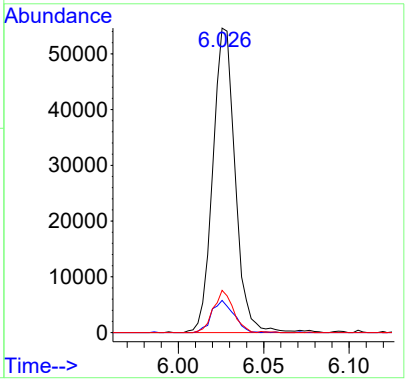


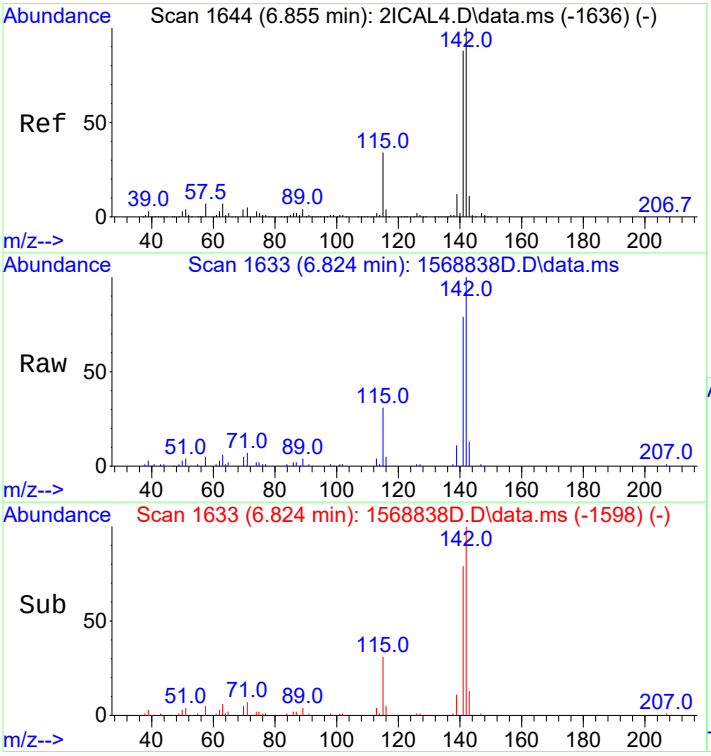



#31
Naphthalene
Concen: 1.35 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.006 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:128 Resp: 49787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.5 | 0.0 | 41.0 |
| 127 | 13.9 | 0.0 | 43.3 |

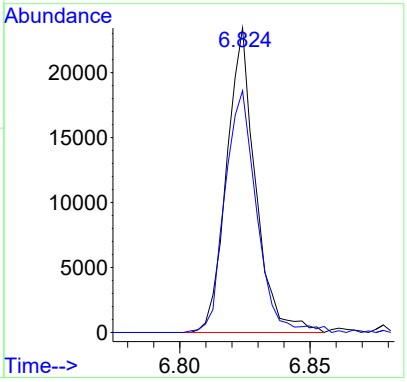


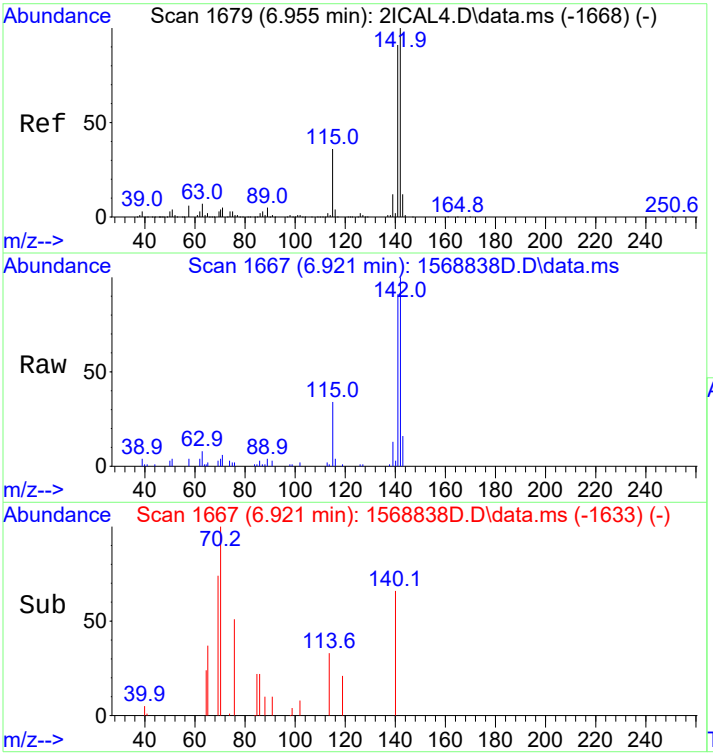




#37
2Methylnaphth
Concen: 0.81 ug/mL
RT: 6.824 min Scan# 1633
Delta R.T. 0.000 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:142 Resp: 18057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 79.4 | 58.0 | 118.0 |

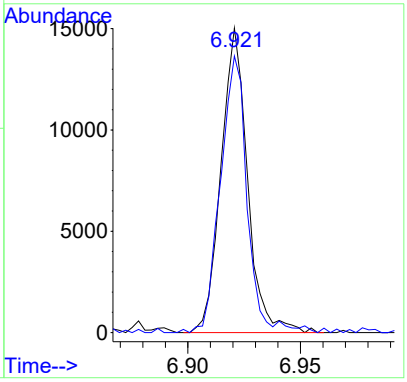


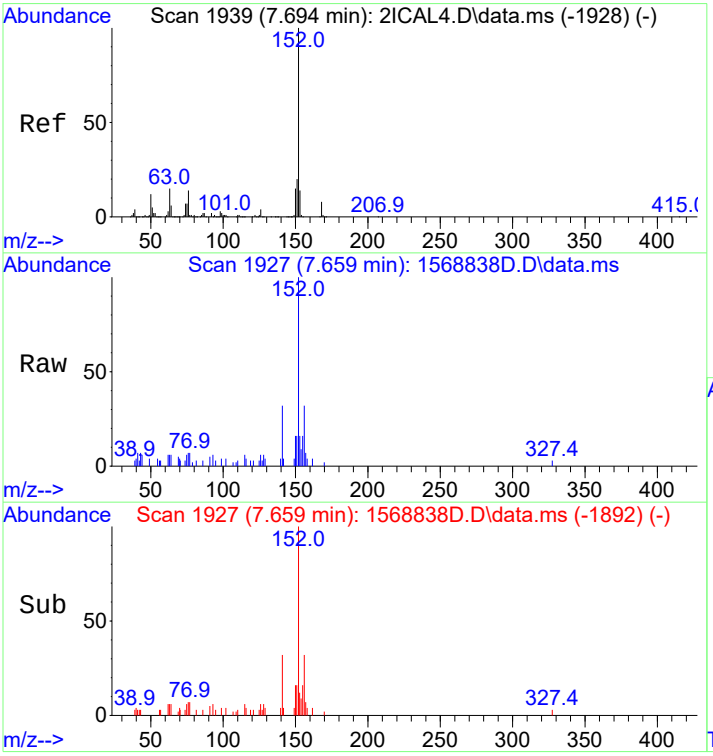



#38
1Methylnaphth
Concen: 0.54 ug/mL
RT: 6.921 min Scan# 1667
Delta R.T. -0.003 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:142 Resp: 12324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.8 | 60.7 | 120.7 |

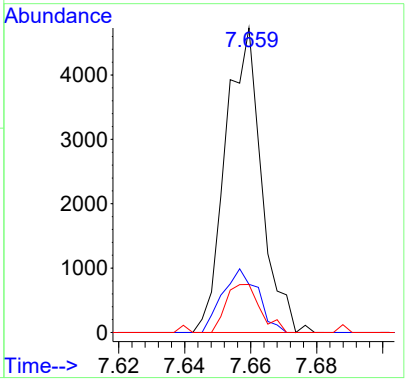


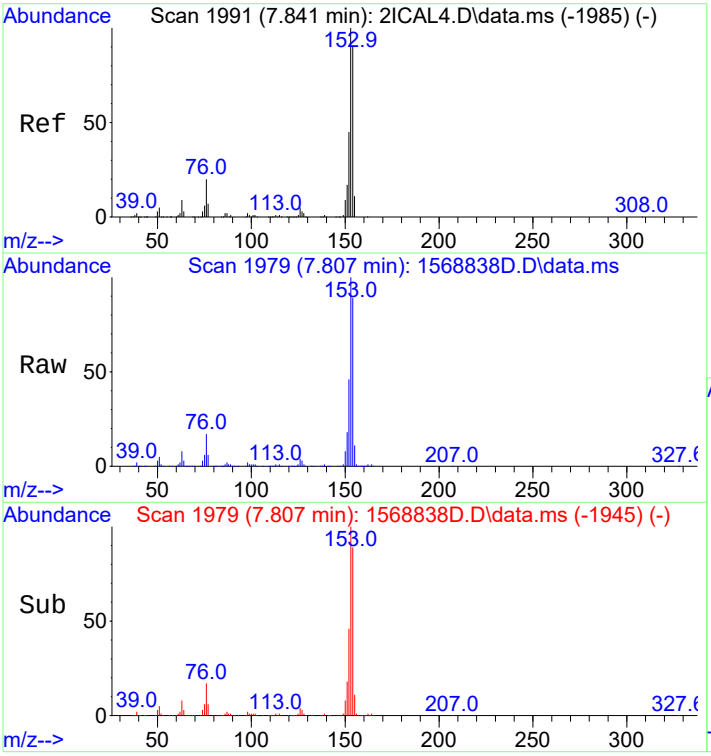




#47
Acnaphthylene
Concen: 0.10 ug/mL
RT: 7.659 min Scan# 1927
Delta R.T. 0.000 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:152 Resp: 3580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 15.8 | 0.0 | 50.3 |
| 153 | 25.1 | 0.0 | 44.4 |

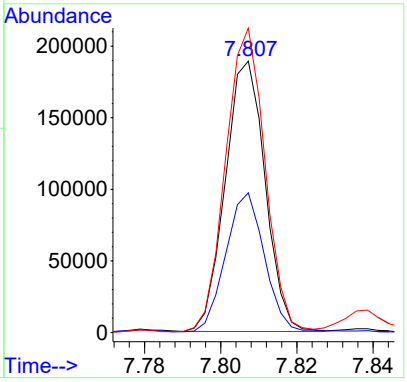


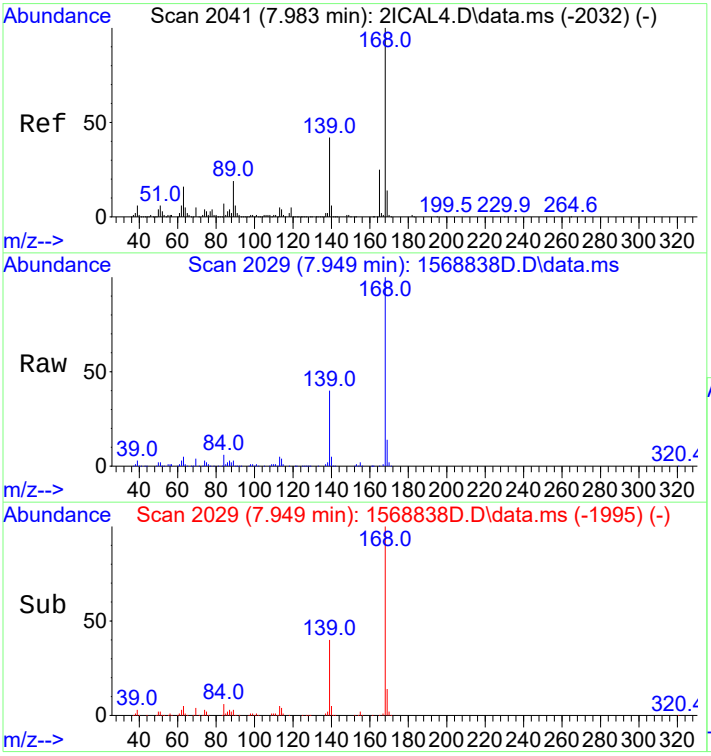



#50
Acenaphthene
Concen: 6.37 ug/mL
RT: 7.807 min Scan# 1979
Delta R.T. -0.003 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:154 Resp: 137321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 51.2 | 20.0 | 80.0 |
| 153 | 112.2 | 80.7 | 140.7 |

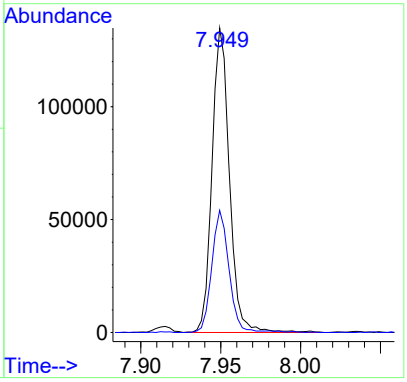


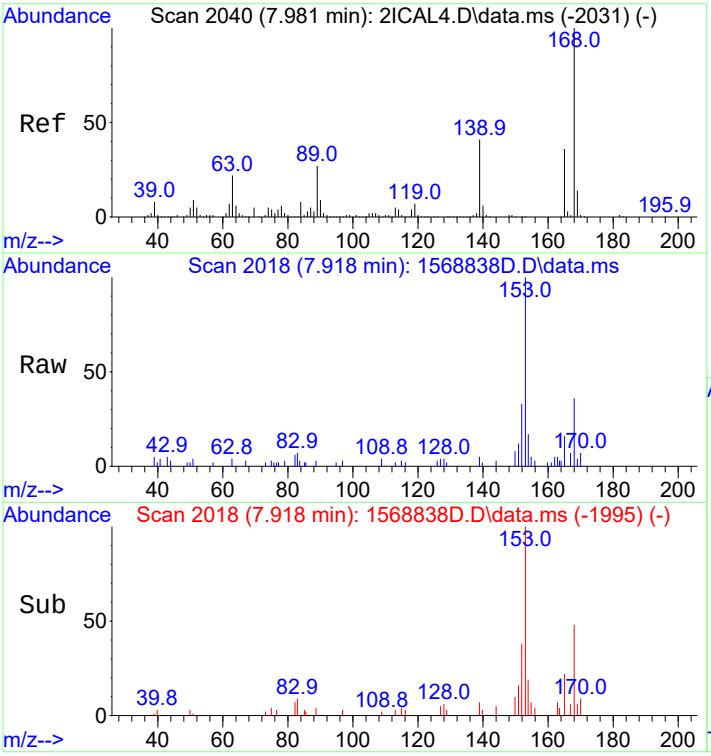




#53
Dibenzofuran
Concen: 3.28 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:168 Resp: 102232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.1 | 11.9 | 71.9 |

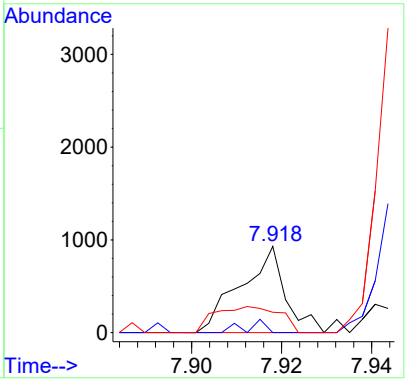


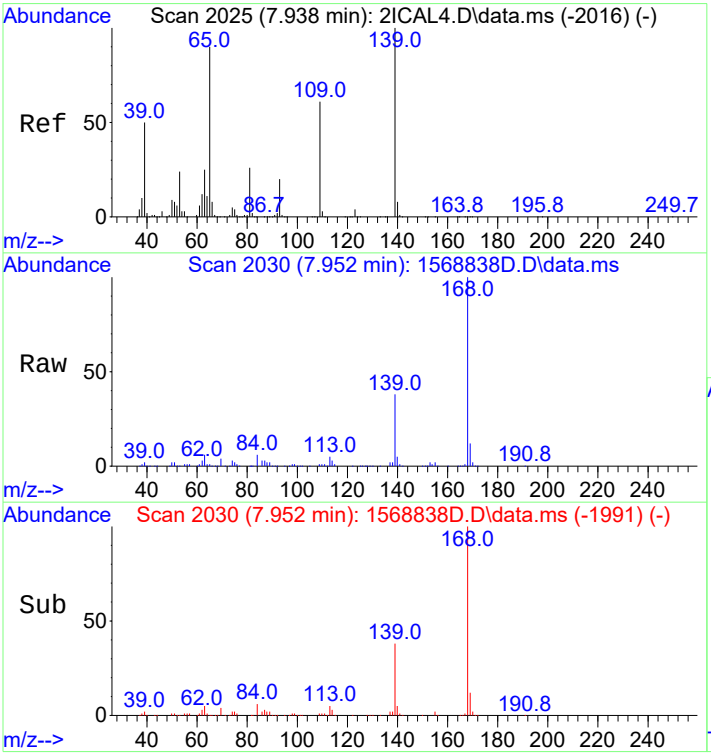



#54
24Dinitrotolu
Concen: 0.08 ug/mL
RT: 7.918 min Scan# 2018
Delta R.T. -0.034 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:165 Resp: 641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 89 | 0.0 | 46.1 | 106.1# |
| 63 | 23.6 | 32.6 | 92.6# |

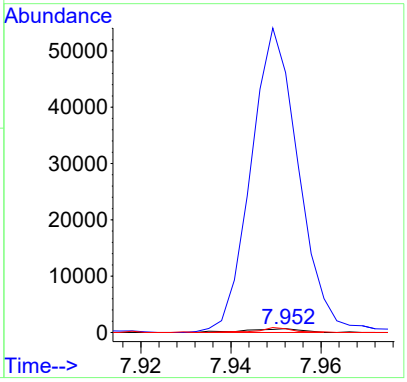


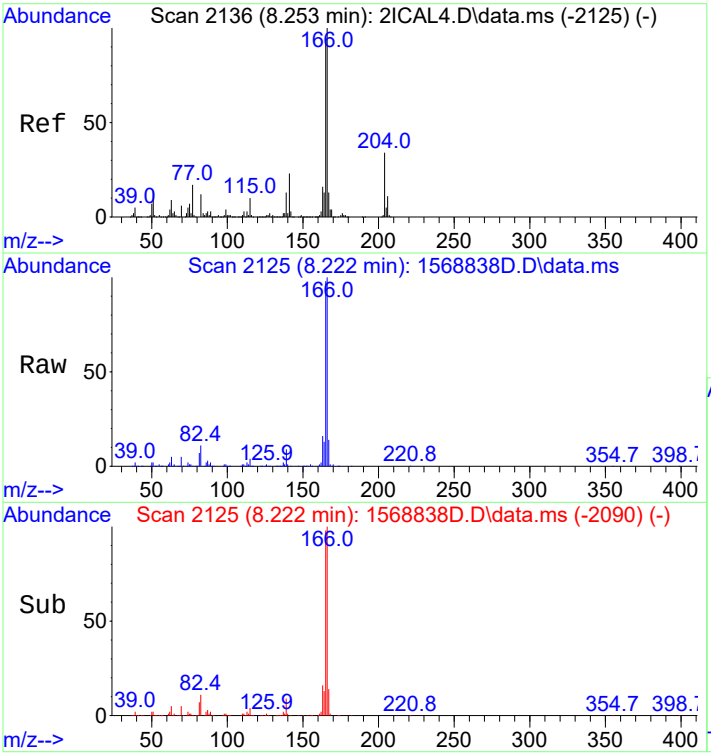




#55
4-Nitrophenol
Concen: 1.38 ug/mL
RT: 7.952 min Scan# 2030
Delta R.T. 0.045 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion: 65 Resp: 570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 139 | 5484.9 | 80.5 | 140.5# |
| 109 | 64.9 | 37.6 | 97.6 |

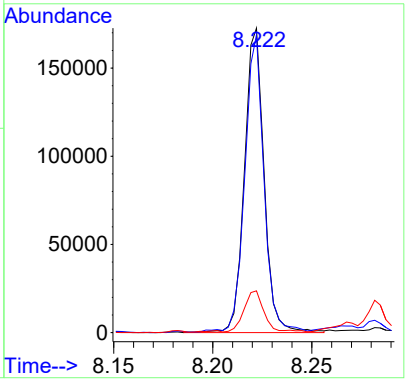


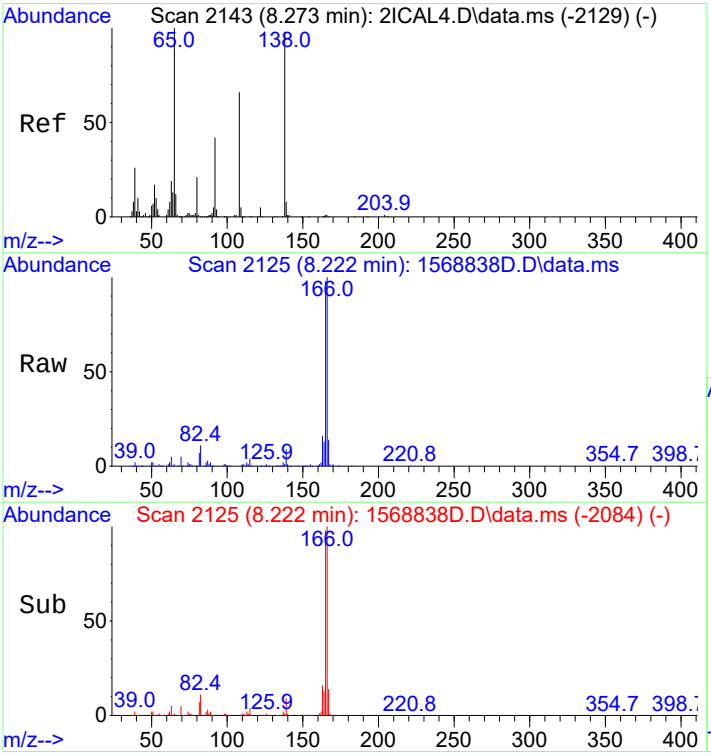



#58
Fluorene
Concen: 5.02 ug/mL
RT: 8.222 min Scan# 2125
Delta R.T. 0.000 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:166 Resp: 119444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.4 | 63.6 | 123.6 |
| 167 | 13.3 | 0.0 | 43.3 |

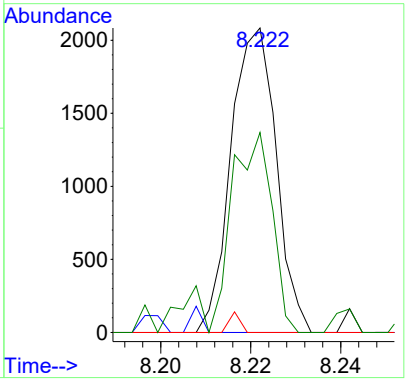


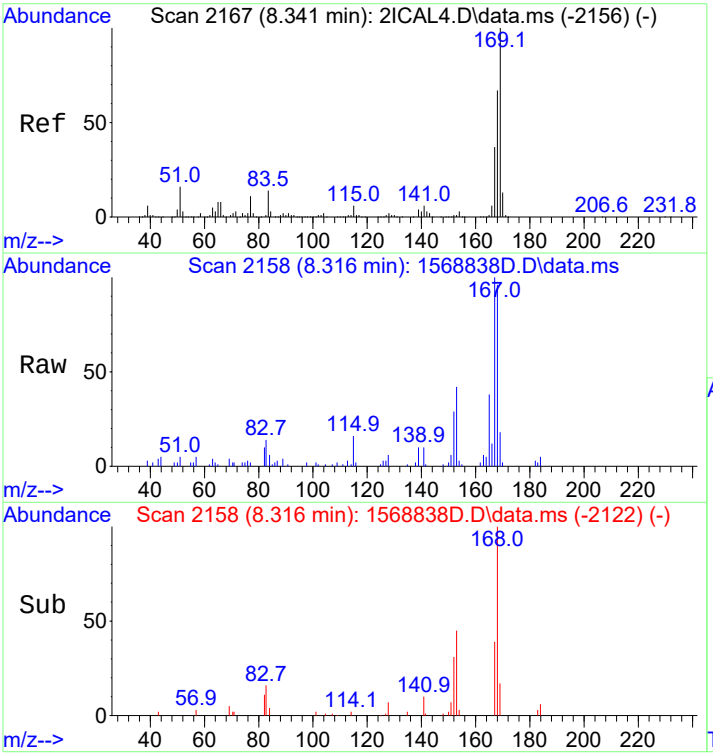




#61
4Nitroaniline
Concen: 0.58 ug/mL
RT: 8.222 min Scan# 2125
Delta R.T. -0.023 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:138 Resp: 1455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 65.7 | 71.1 | 131.1# |

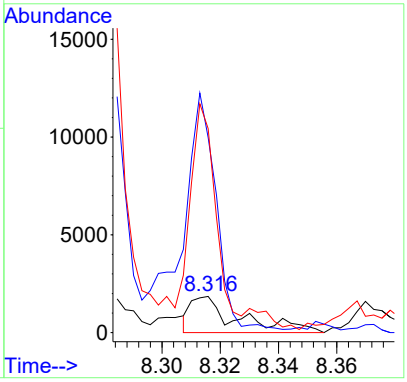


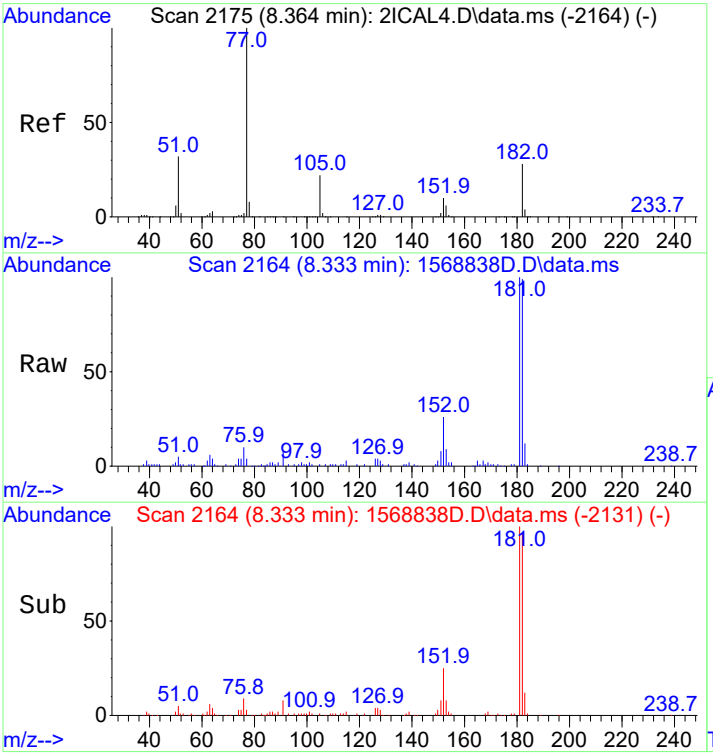



#65
Ntrsdiphlam&Diphlam
Concen: 0.12 ug/mL
RT: 8.316 min Scan# 2158
Delta R.T. 0.003 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:169 Resp: 2123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 515.3 | 37.2 | 97.2# |
| 167 | 529.2 | 6.9 | 66.9# |

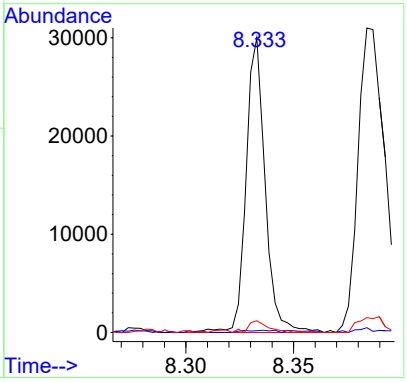


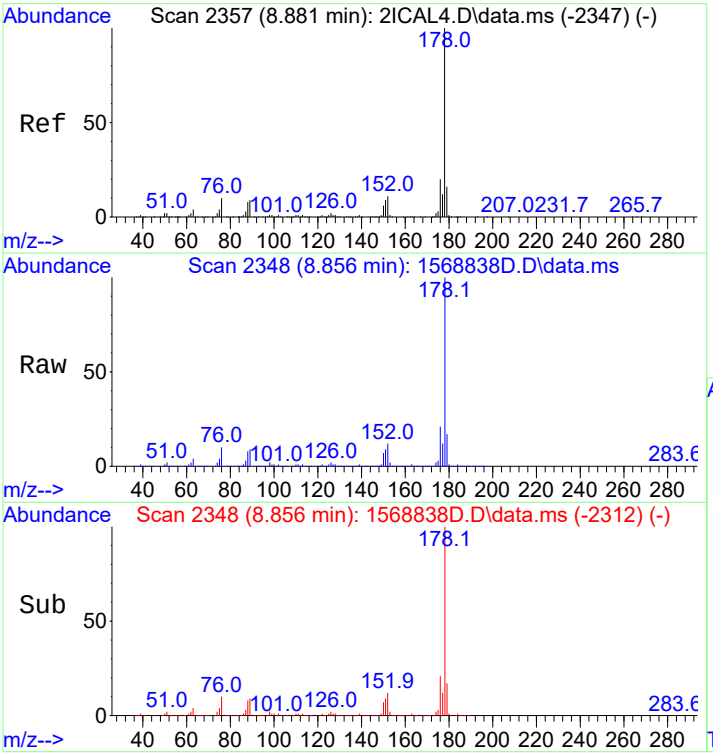




#66
Azobenz&12Diphlhyd
Concen: 3.03 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:182 Resp: 18449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.6 | 49.9 | 109.9# |
| 77 | 3.9 | 339.9 | 399.9# |

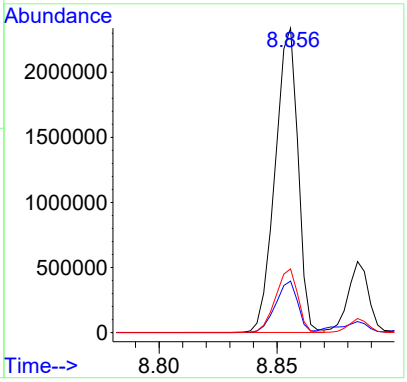


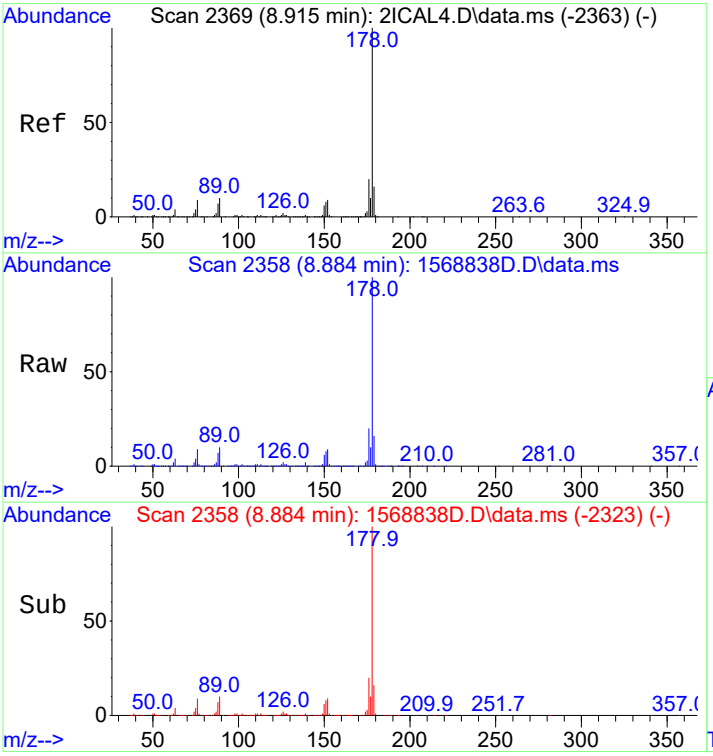



#70
Phenanthrene
Concen: 48.62 ug/mL
RT: 8.856 min Scan# 2348
Delta R.T. 0.003 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:178 Resp: 1570405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.9 | 0.0 | 45.9 |
| 176 | 20.9 | 0.0 | 50.4 |

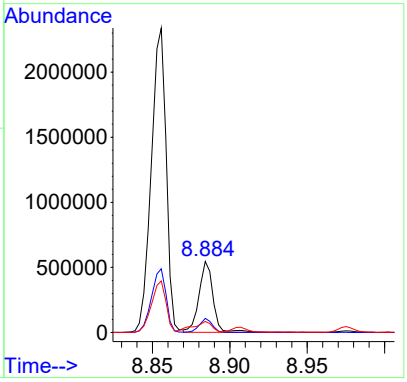


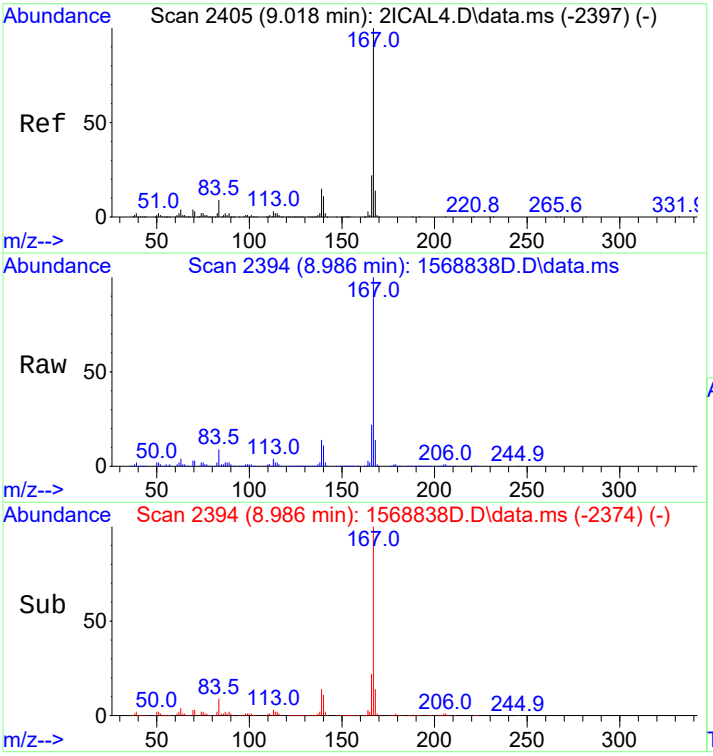




#71
Anthracene
Concen: 10.51 ug/mL
RT: 8.884 min Scan# 2358
Delta R.T. 0.000 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:178 Resp: 345434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.9 | 0.0 | 49.5 |
| 179 | 15.5 | 0.0 | 45.9 |

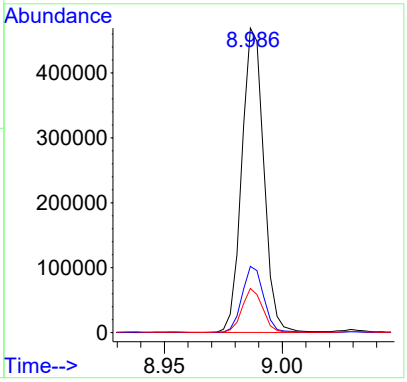


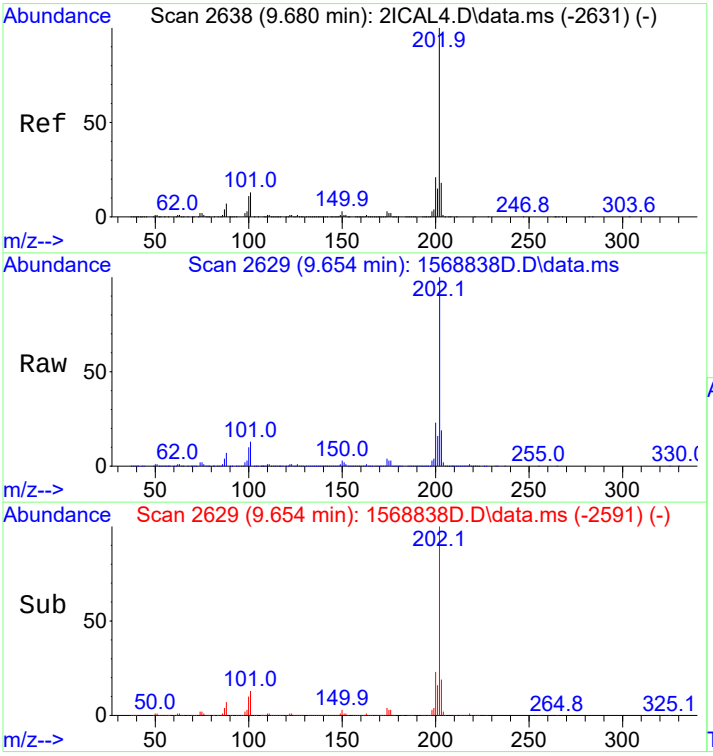



#72
Carbazole
Concen: 10.88 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:167 Resp: 304456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.7 | 0.0 | 52.1 |
| 139 | 14.4 | 0.0 | 44.7 |

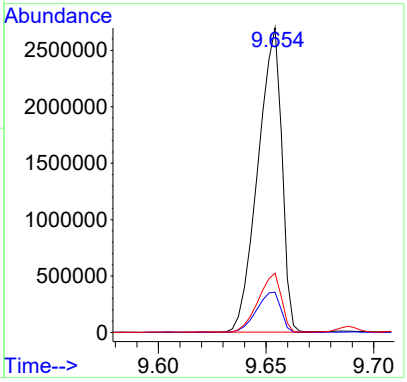


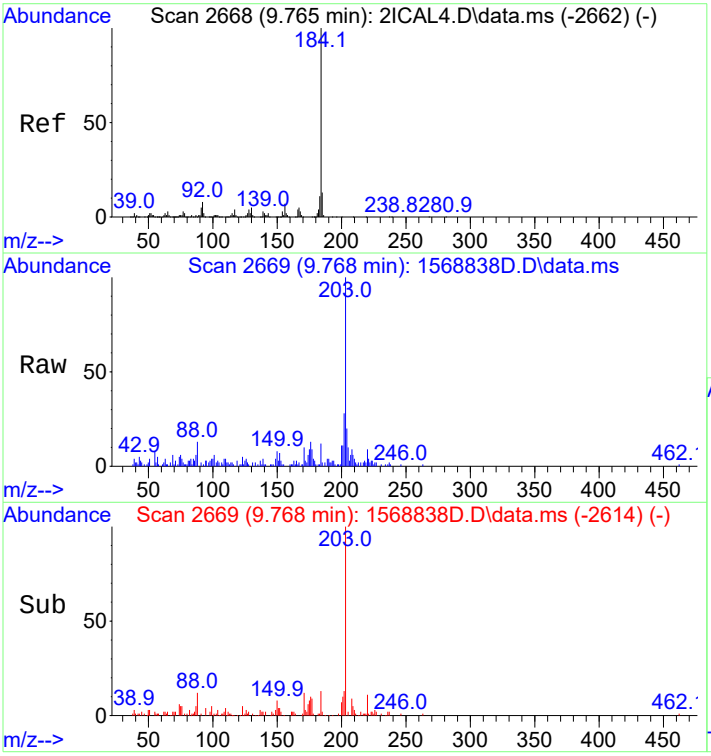




#74
Fluoranthene
Concen: 60.86 ug/mL
RT: 9.654 min Scan# 2629
Delta R.T. 0.009 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:202 Resp: 2075738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.2 | 0.0 | 43.0 |
| 203 | 19.4 | 0.0 | 48.2 |

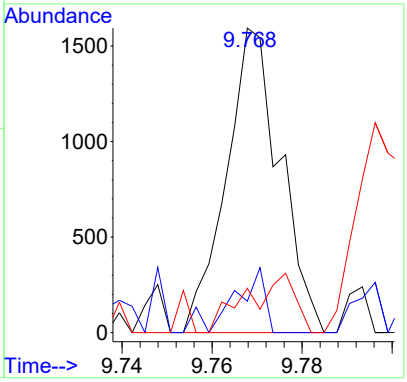


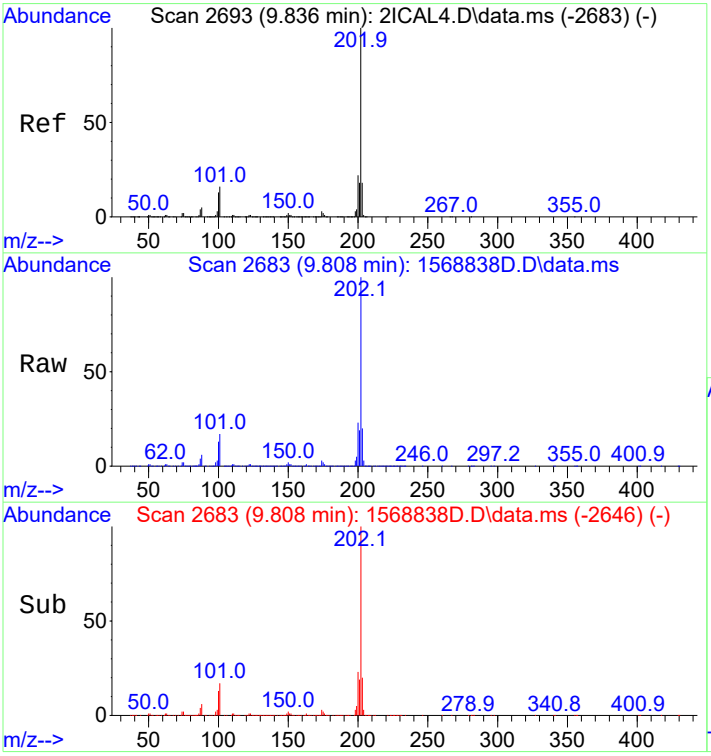



#76
Benzidine
Concen: Below Cal
RT: 9.768 min Scan# 2669
Delta R.T. 0.037 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:184 Resp: 1328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 10.3 | 0.0 | 38.2 |
| 185 | 14.6 | 0.0 | 43.3 |

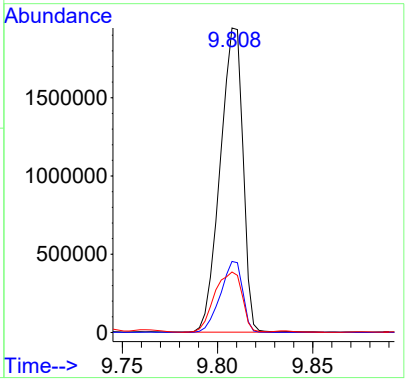


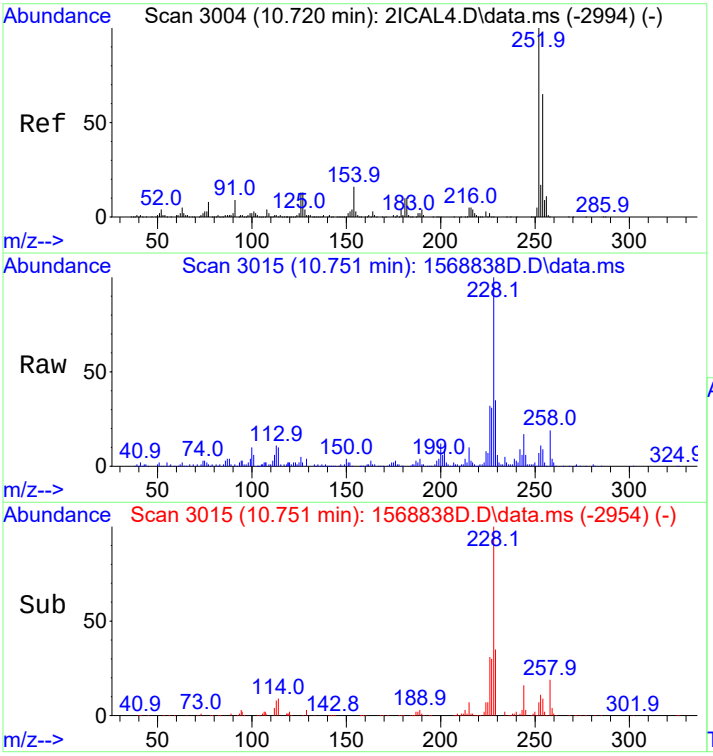




#77
Pyrene
Concen: 43.32 ug/mL
RT: 9.808 min Scan# 2683
Delta R.T. 0.006 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:202 Resp: 1617703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 23.3 | 0.0 | 52.2 |
| 203 | 19.8 | 0.0 | 48.2 |

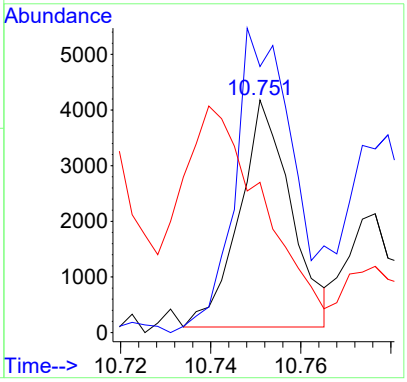


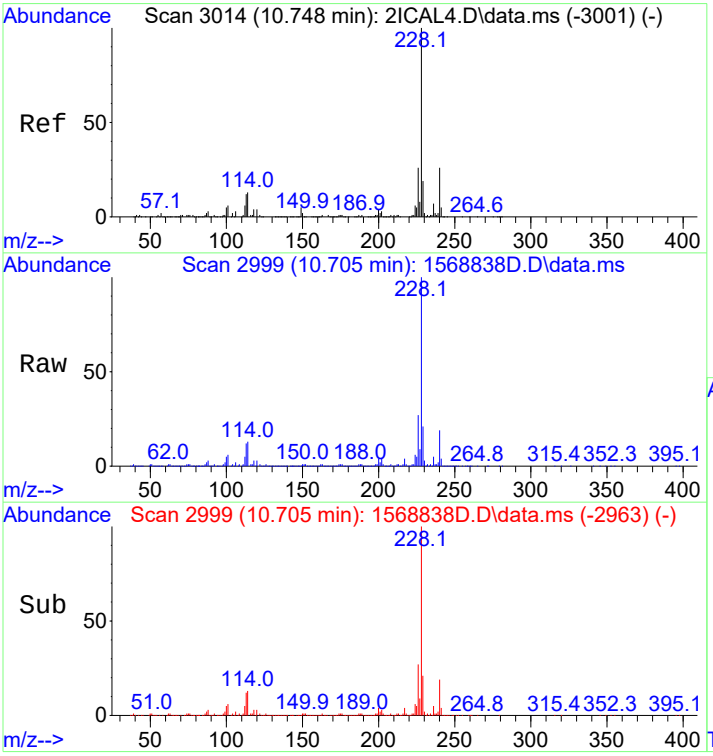



#81
33Diclbnzidin
Concen: 0.17 ug/mL
RT: 10.751 min Scan# 3015
Delta R.T. 0.074 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:252 Resp: 3253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 114.6 | 34.6 | 94.6# |
| 126 | 55.8 | 0.0 | 42.6# |

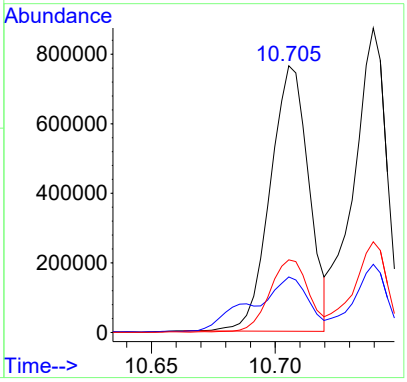


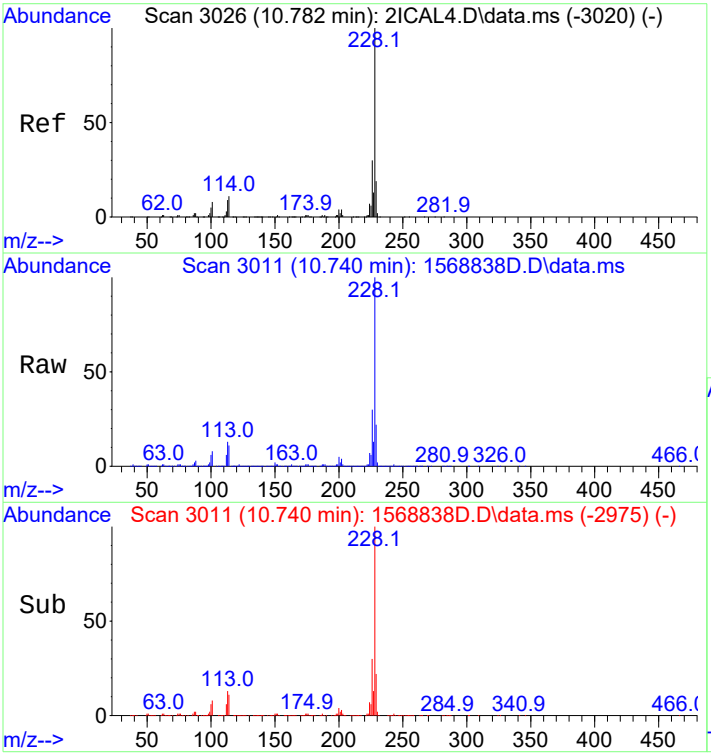




#82
B[a]anthracen
Concen: 23.32 ug/mL
RT: 10.705 min Scan# 2999
Delta R.T. 0.003 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:228 Resp: 825307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.5 | 0.0 | 49.4 |
| 226 | 27.2 | 0.0 | 56.5 |

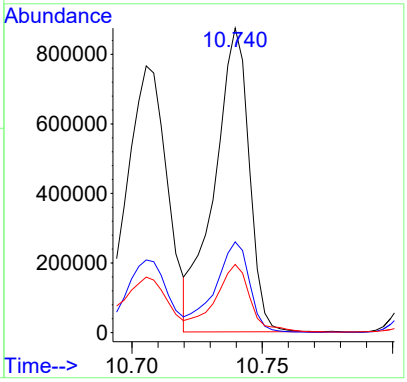


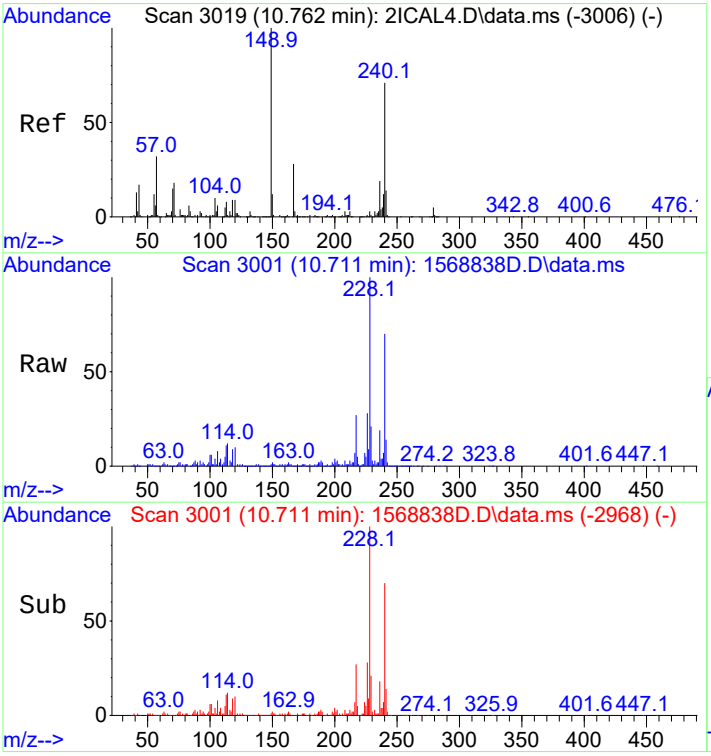



#83
Chrysene
Concen: 24.47 ug/mL
RT: 10.740 min Scan# 3011
Delta R.T. 0.003 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:228 Resp: 812350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.8 | 0.0 | 59.9 |
| 229 | 22.3 | 0.0 | 49.5 |

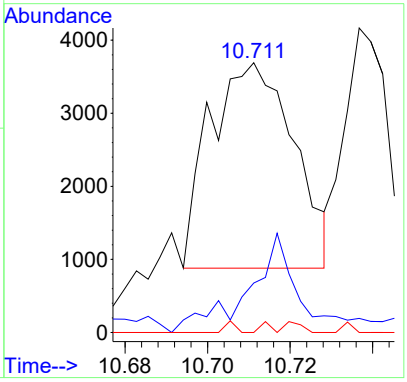


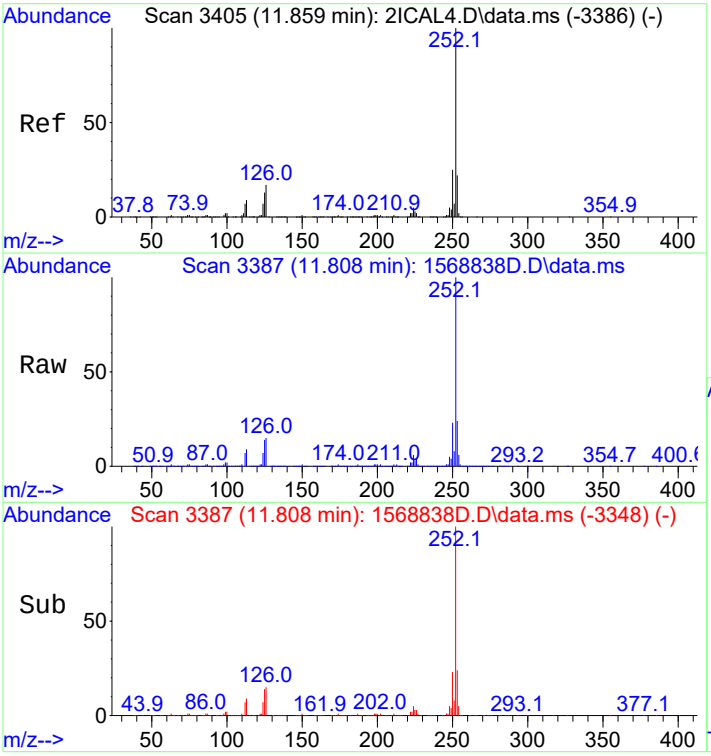




#84
bis2Ethlhxlph
Concen: 0.15 ug/mL
RT: 10.711 min Scan# 3001
Delta R.T. -0.006 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:149 Resp: 3975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 18.0 | 0.0 | 57.9 |
| 279 | 0.0 | 0.0 | 34.9 |

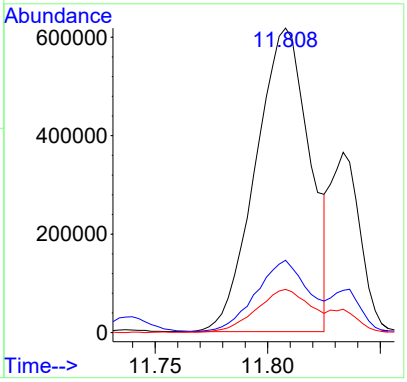


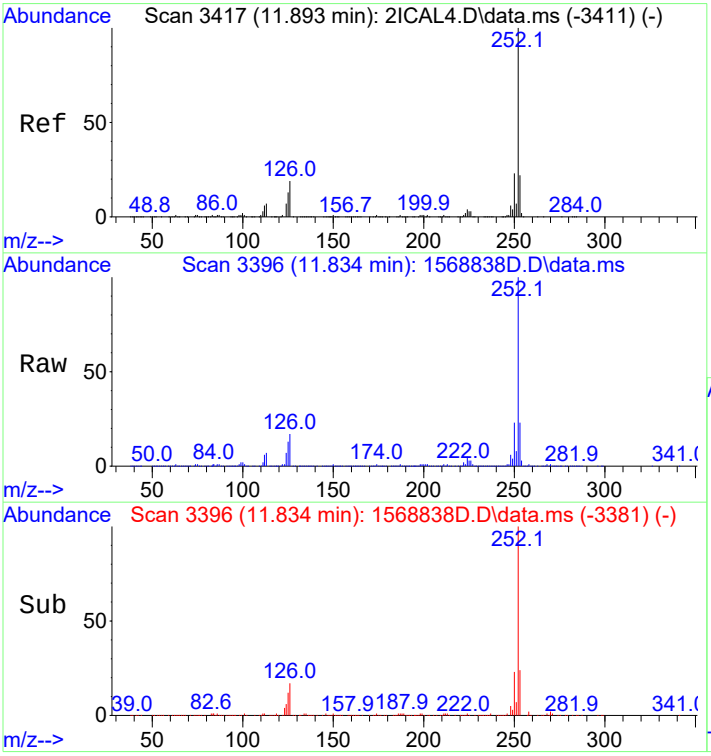



#87
B[b]fluoranth
Concen: 32.80 ug/mL
RT: 11.808 min Scan# 3387
Delta R.T. 0.011 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:252 Resp: 1029193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.3 | 0.0 | 52.3 |
| 125 | 14.1 | 0.0 | 43.2 |

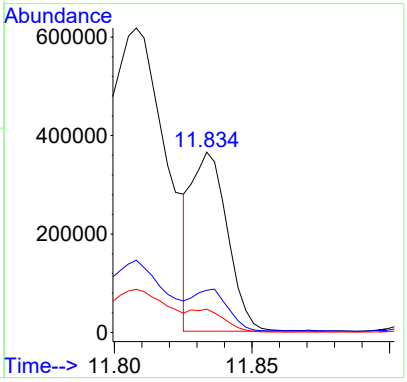


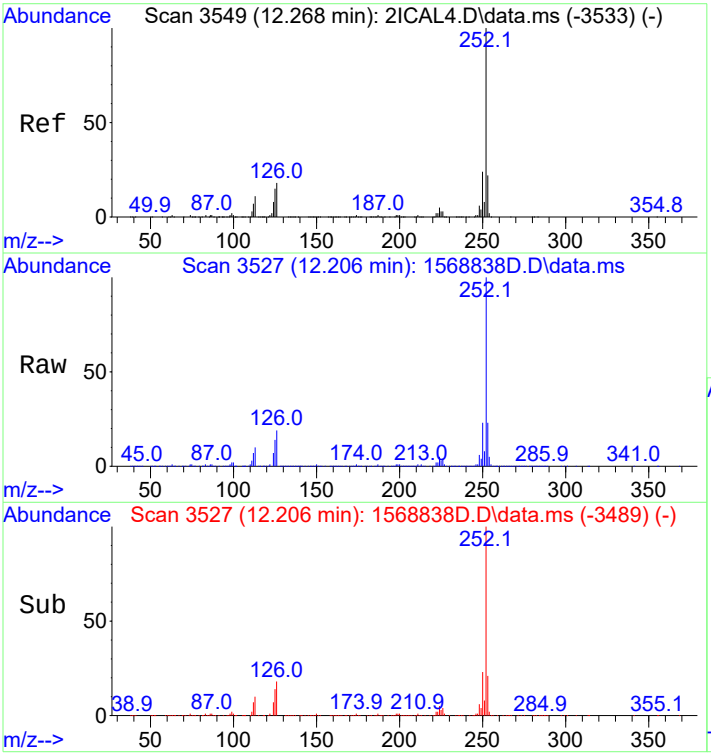




#88
B[k]fluoranth
Concen: 10.51 ug/mL
RT: 11.834 min Scan# 3396
Delta R.T. 0.003 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:252 Resp: 330438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 0.0 | 52.0 |
| 125 | 12.7 | 0.0 | 43.3 |

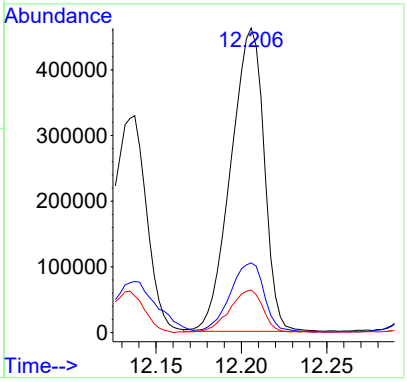


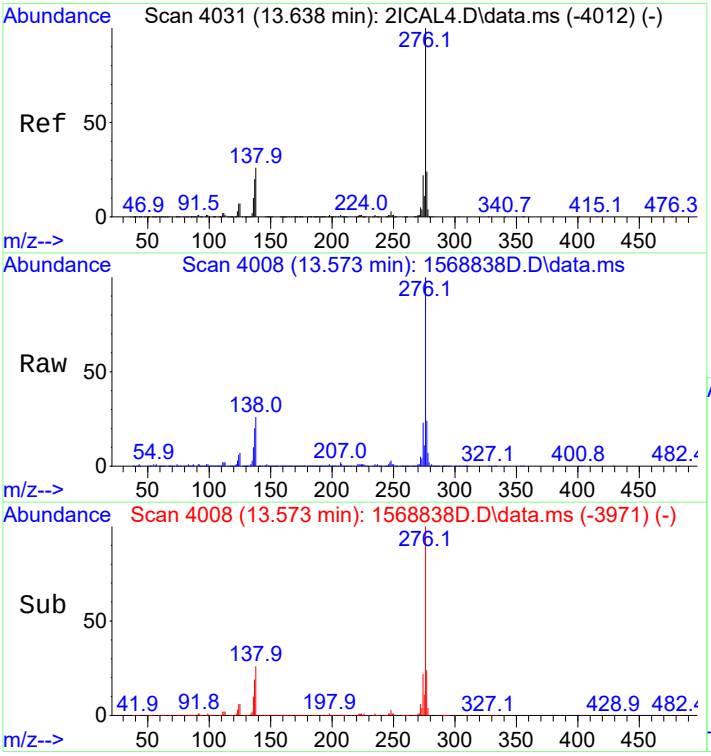



#89
Benz[a]pyrene
Concen: 21.73 ug/mL
RT: 12.206 min Scan# 3527
Delta R.T. 0.009 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:252 Resp: 627080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 0.0 | 52.3 |
| 125 | 13.8 | 0.0 | 45.1 |

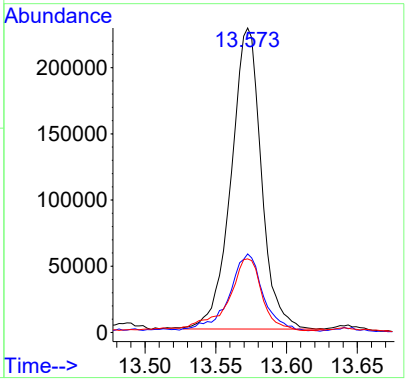


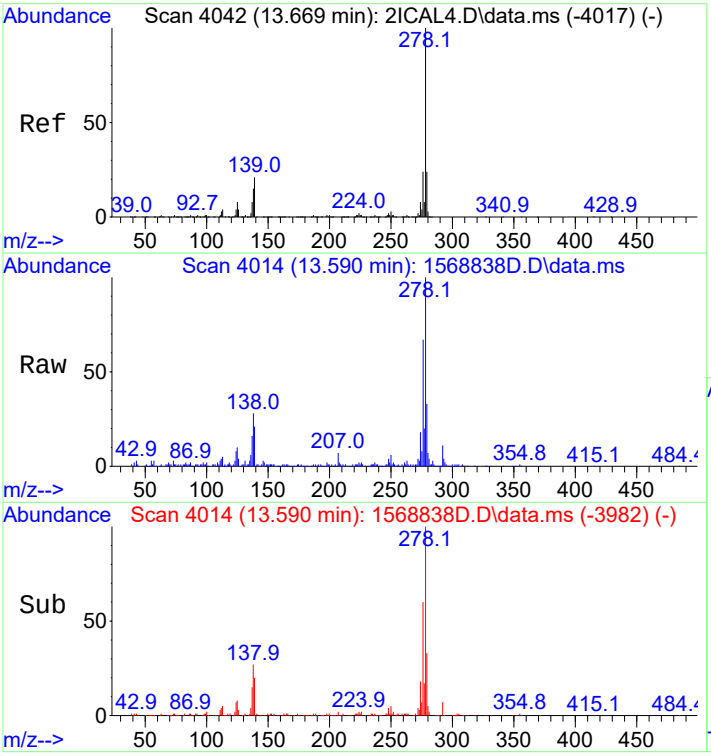




#90
Indeno-pyrene
Concen: 10.58 ug/mL
RT: 13.573 min Scan# 4008
Delta R.T. 0.006 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:276 Resp: 337628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.4 | 0.0 | 55.5 |
| 277 | 23.6 | 0.0 | 54.0 |

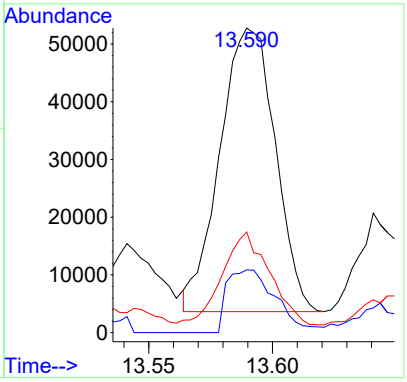


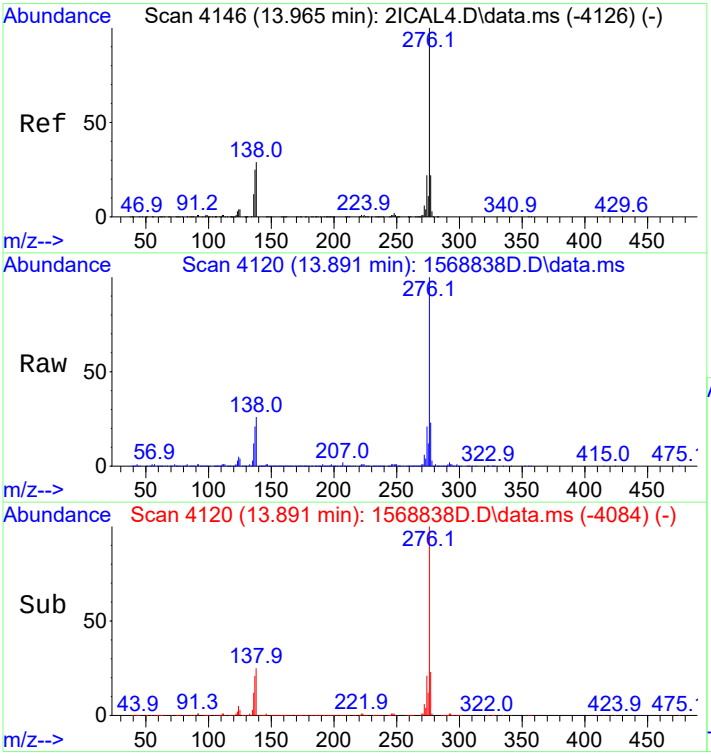



#91
Dib[ah]anthr
Concen: 2.94 ug/mL
RT: 13.590 min Scan# 4014
Delta R.T. -0.009 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:278 Resp: 76604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.1 | 0.0 | 50.9 |
| 279 | 32.8 | 0.0 | 54.4 |

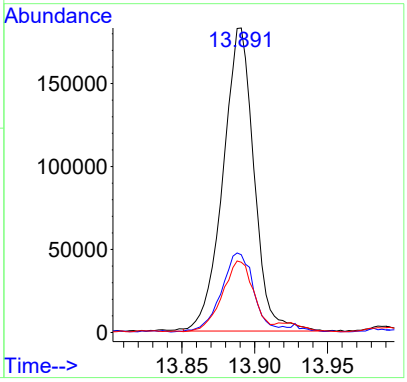



#92
B[ghi]perylen
Concen: 10.82 ug/mL
RT: 13.891 min Scan# 4120
Delta R.T. 0.003 min
Lab File: 1568838D.D
Acq: 11 Apr 2025 17:14

Tgt Ion:276 Resp: 270510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.4 | 0.0 | 59.0 |
| 277 | 22.9 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568842D.D Vial: 19
Acq On : 11 Apr 2025 18:00 Operator: JJY
Sample : 290730,1568842,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:30 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

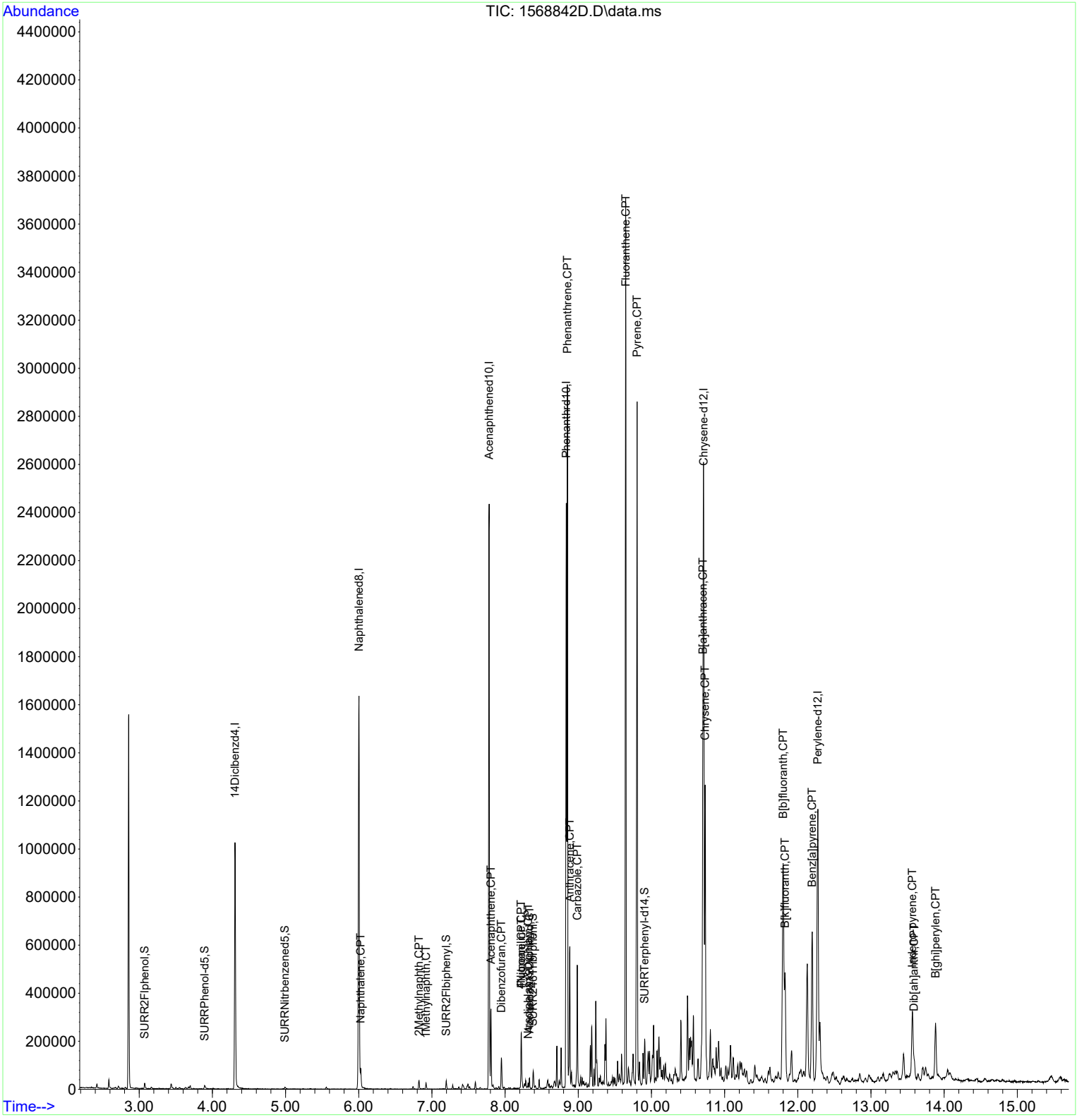
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 158996 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.003 | 136 | 771175 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 428115 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 632840 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 556665 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.274 | 264 | 536415 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.073 | 112 | 5442 | 1.42 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.42% | | | |
| 7) SURRPhenol-d5 | 3.895 | 99 | 5972 | 1.30 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.30% | | | |
| 22) SURRNitrbenzened5 | 4.991 | 82 | 2887 | 1.37 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.37% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 9365 | 1.83 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.83% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 2114 | 1.84 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.84% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 10908 | 2.01 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.01% | | | |
| Target Compounds | | | | | | Qvalue |
| 31) Naphthalene | 6.026 | 128 | 30292 | 0.8517 | ug/mL | 98 |
| 37) 2Methylnaphth | 6.824 | 142 | 9129 | 0.4247 | ug/mL | 75 |
| 38) 1Methylnaphth | 6.921 | 142 | 6456 | 0.2904 | ug/mL | 98 |
| 50) Acenaphthene | 7.807 | 154 | 57608 | 2.7976 | ug/mL | 99 |
| 53) Dibenzofuran | 7.949 | 168 | 43682 | 1.4690 | ug/mL | 93 |
| 58) Fluorene | 8.222 | 166 | 53032 | 2.3329 | ug/mL | 98 |
| 61) 4Nitroaniline | 8.219 | 138 | 621 | 0.4368 | ug/mL# | 55 |
| 65) Ntrsdiphlam&Diphlam | 8.316 | 169 | 841 | 0.0515 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 8259 | 1.4195 | ug/mL# | 1 |
| 70) Phenanthrene | 8.853 | 178 | 743530 | 24.1158 | ug/mL | 100 |
| 71) Anthracene | 8.884 | 178 | 168404 | 5.3685 | ug/mL | 98 |
| 72) Carbazole | 8.986 | 167 | 137521 | 5.1484 | ug/mL | 98 |
| 74) Fluoranthene | 9.649 | 202 | 1059803 | 32.5524 | ug/mL | 99 |
| 77) Pyrene | 9.805 | 202 | 824341 | 23.3139 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.745 | 252 | 787 | Below Cal | | 64 |
| 82) B[a]anthracen | 10.703 | 228 | 431112 | 12.8635 | ug/mL | 98 |
| 83) Chrysene | 10.734 | 228 | 397579 | 12.6490 | ug/mL | 97 |
| 87) B[b]fluoranth | 11.799 | 252 | 495279 | 17.4303 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.825 | 252 | 176156 | 6.1876 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.197 | 252 | 300871 | 11.5137 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.564 | 276 | 152498 | 5.2763 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.587 | 278 | 35536 | 1.5041 | ug/mL | 92 |
| 92) B[ghi]perylen | 13.882 | 276 | 121295 | 5.3565 | ug/mL | 93 |

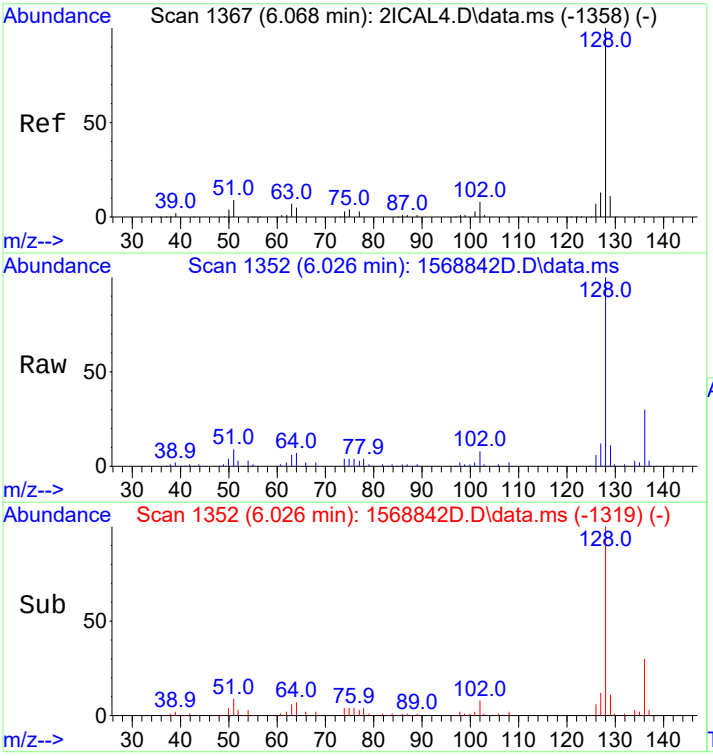
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568842D.D Vial: 19
Acq On : 11 Apr 2025 18:00 Operator: JJY
Sample : 290730,1568842,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:30 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

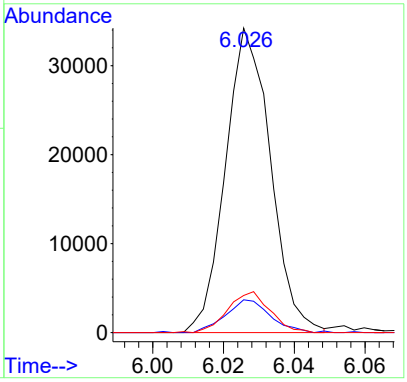


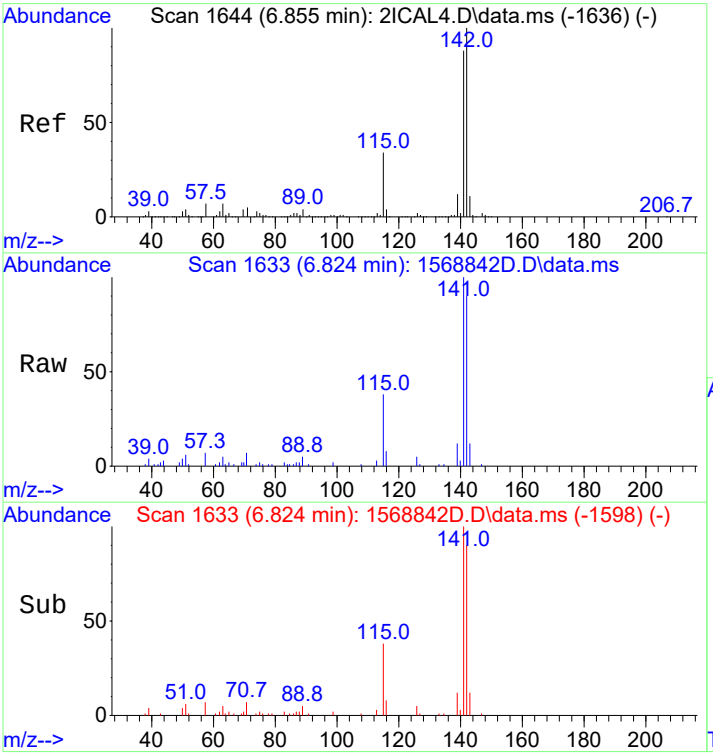



#31
Naphthalene
Concen: 0.85 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.006 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:128 Resp: 30292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.8 | 0.0 | 41.0 |
| 127 | 12.2 | 0.0 | 43.3 |

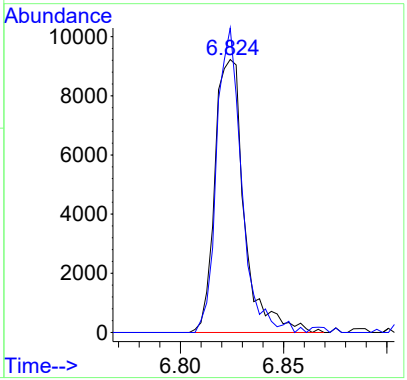


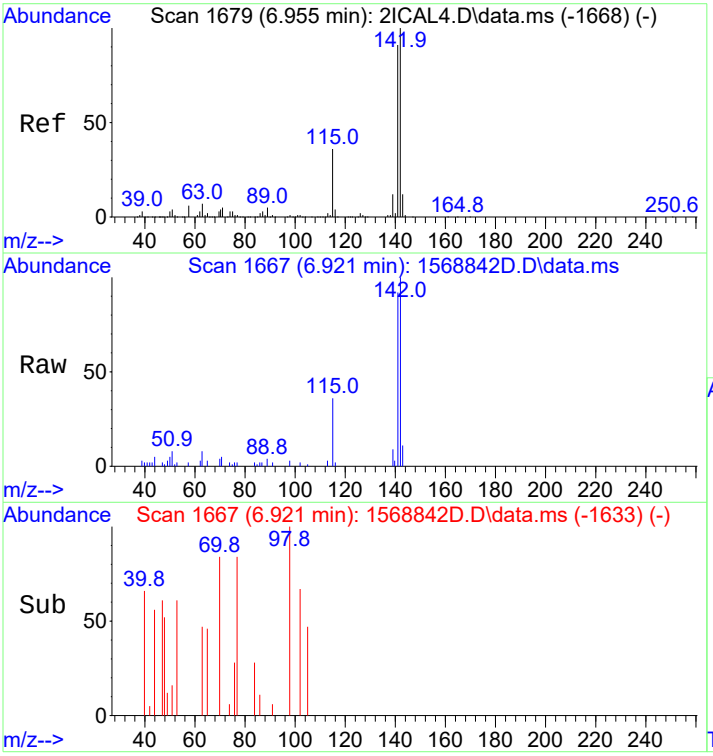




#37
2Methylnaphth
Concen: 0.42 ug/mL
RT: 6.824 min Scan# 1633
Delta R.T. 0.000 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:142 Resp: 9129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 111.5 | 58.0 | 118.0 |

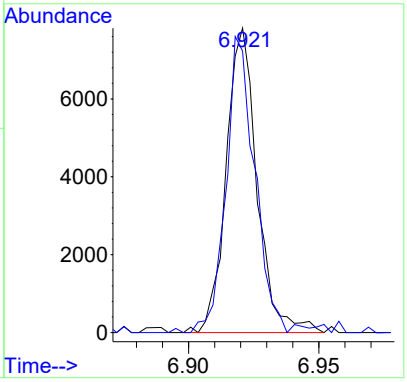


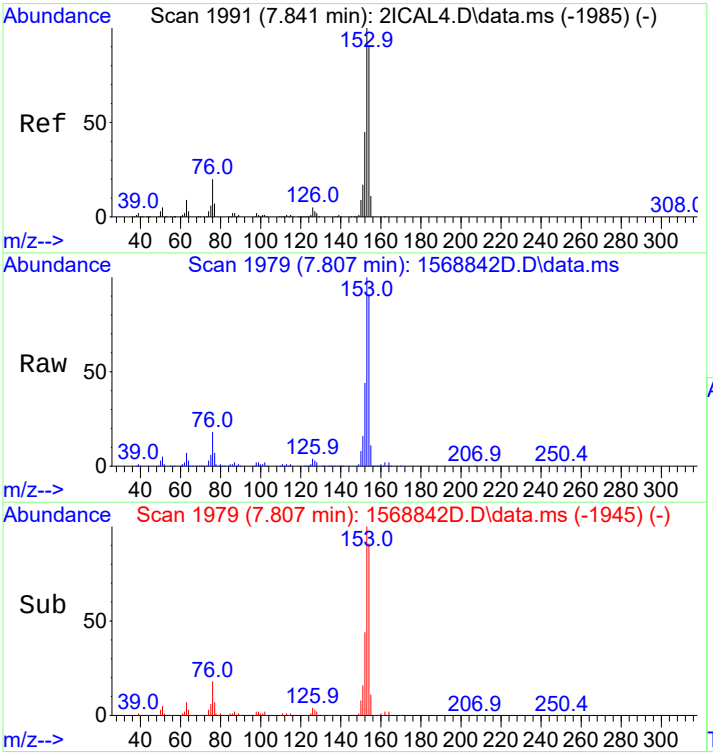



#38
1Methylnaphth
Concen: 0.29 ug/mL
RT: 6.921 min Scan# 1667
Delta R.T. -0.003 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:142 Resp: 6456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.5 | 60.7 | 120.7 |

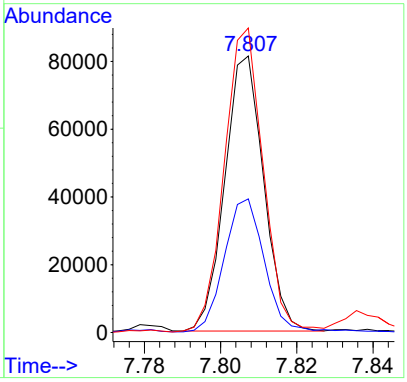


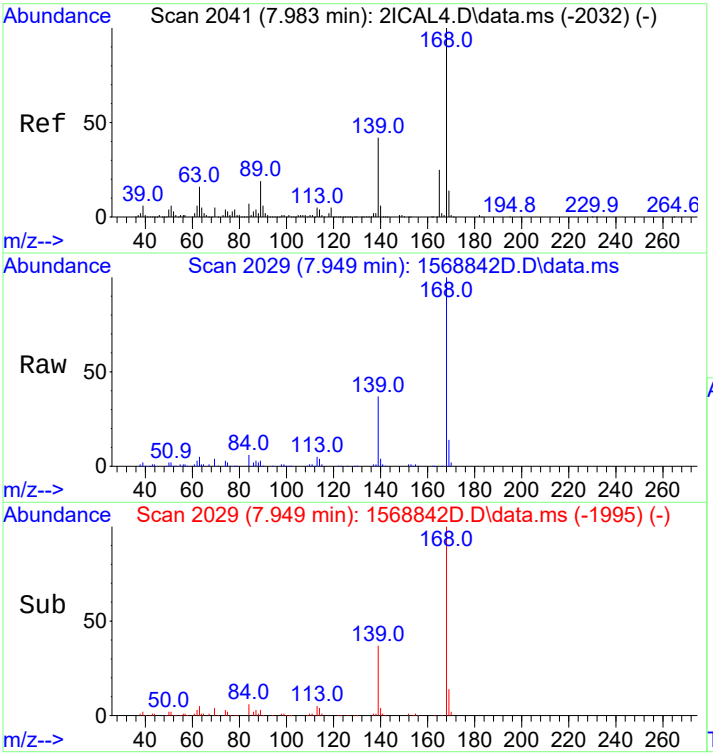




#50
Acenaphthene
Concen: 2.80 ug/mL
RT: 7.807 min Scan# 1979
Delta R.T. -0.003 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:154 Resp: 57608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 48.3 | 20.0 | 80.0 |
| 153 | 109.6 | 80.7 | 140.7 |

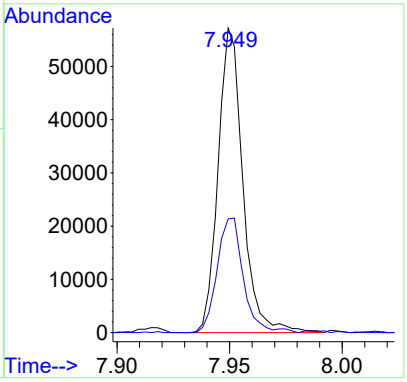


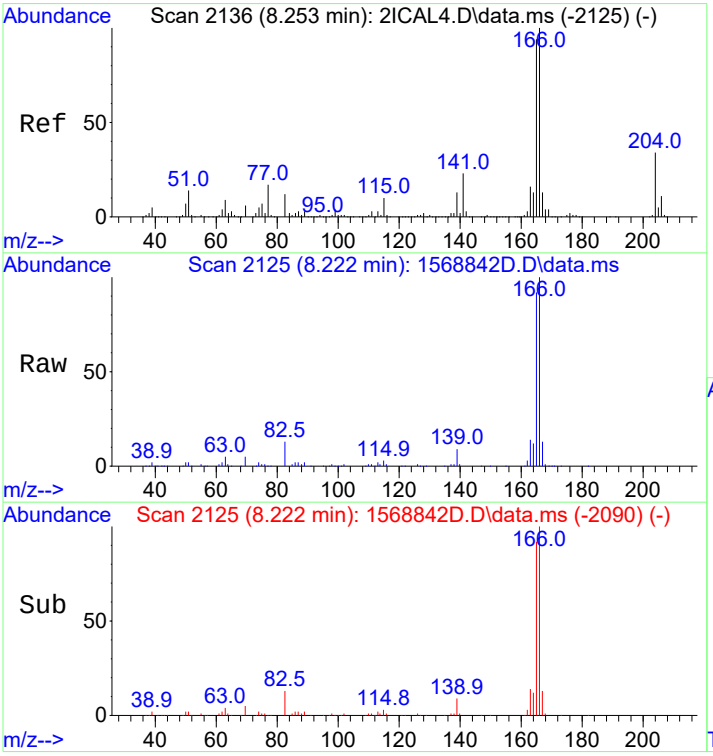



#53
Dibenzofuran
Concen: 1.47 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:168 Resp: 43682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 37.4 | 11.9 | 71.9 |

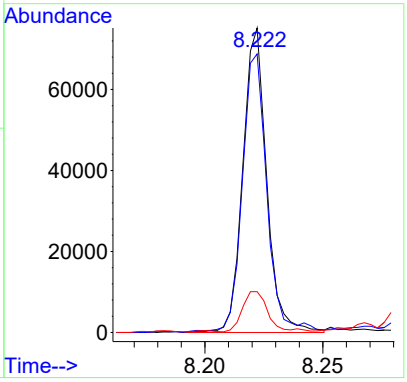


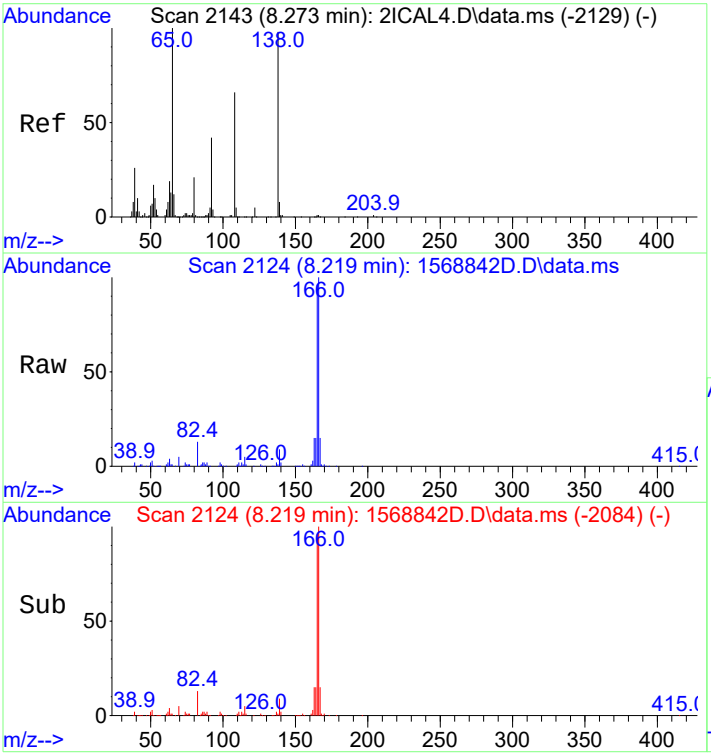




#58
Fluorene
Concen: 2.33 ug/mL
RT: 8.222 min Scan# 2125
Delta R.T. 0.000 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:166 Resp: 53032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 91.5 | 63.6 | 123.6 |
| 167 | 13.1 | 0.0 | 43.3 |

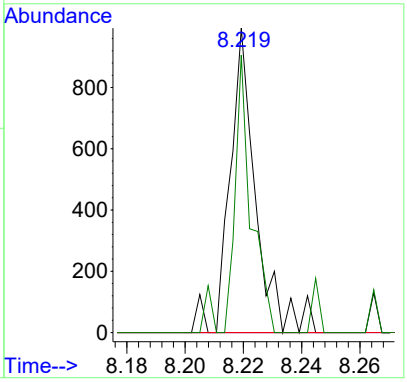


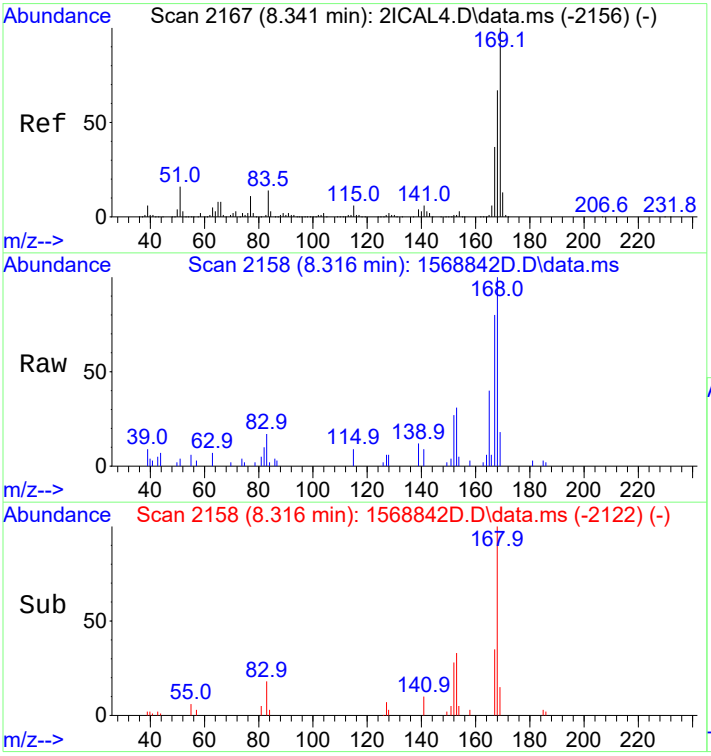



#61
4Nitroaniline
Concen: 0.44 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.026 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:138 Resp: 621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 91.1 | 71.1 | 131.1 |

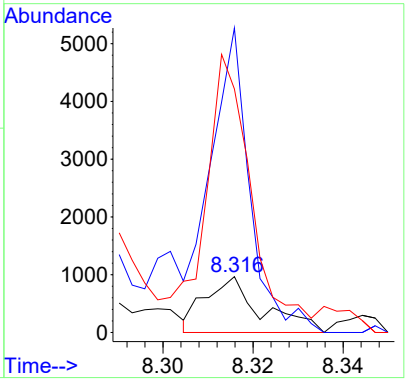


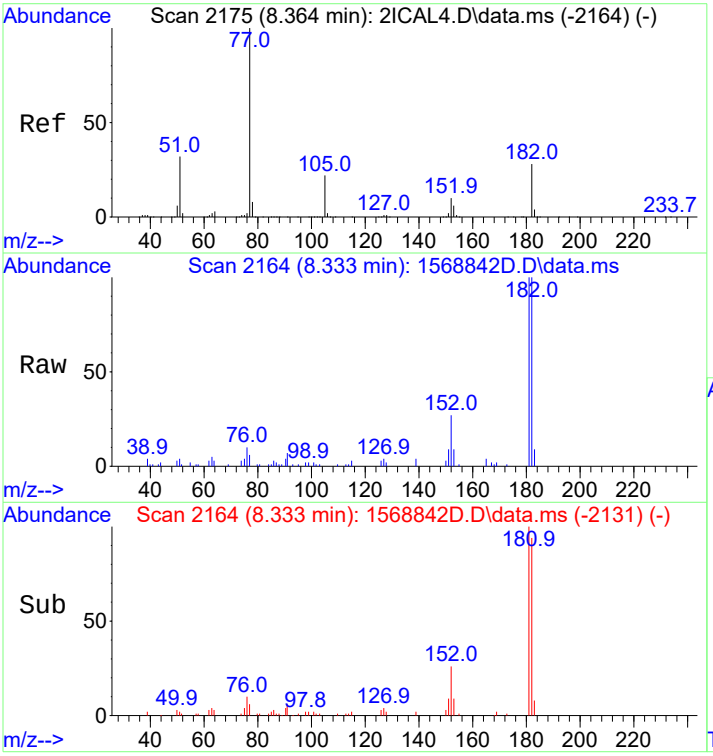




#65
Ntrsdiphlam&Diphlam
Concen: 0.05 ug/mL
RT: 8.316 min Scan# 2158
Delta R.T. 0.003 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:169 Resp: 841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 544.5 | 37.2 | 97.2# |
| 167 | 389.0 | 6.9 | 66.9# |

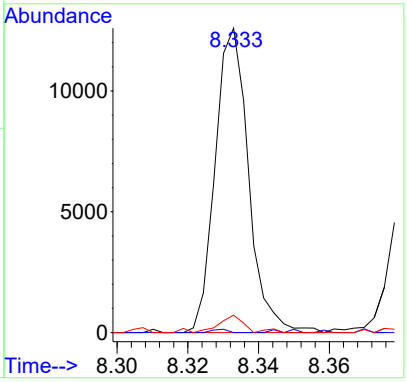


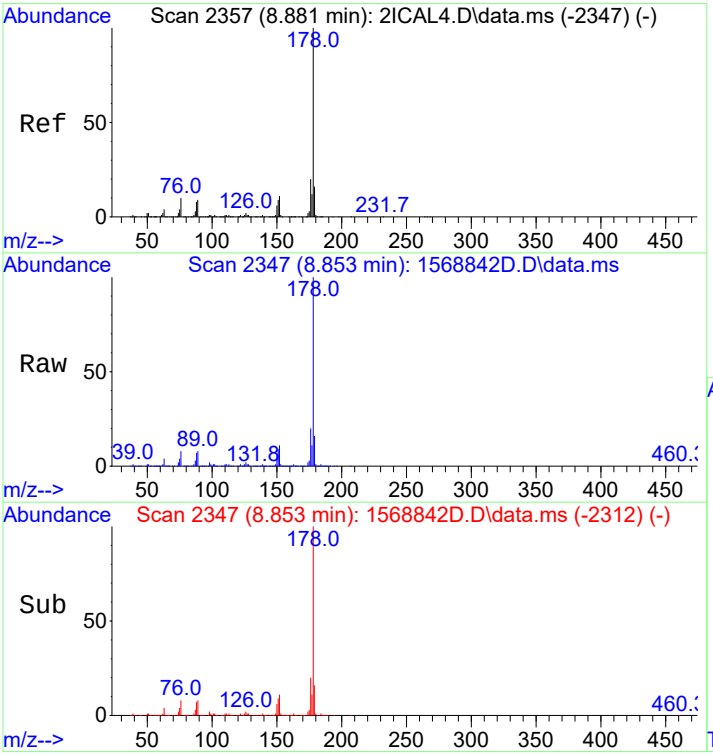



#66
Azobenz&12Diphlhyd
Concen: 1.42 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:182 Resp: 8259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.0 | 49.9 | 109.9# |
| 77 | 5.7 | 339.9 | 399.9# |

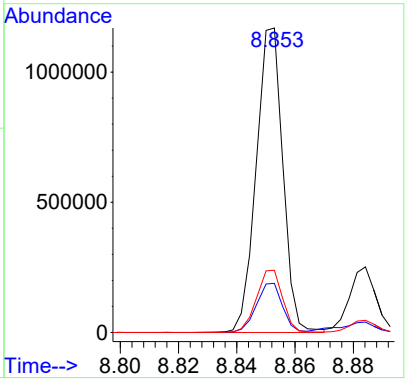


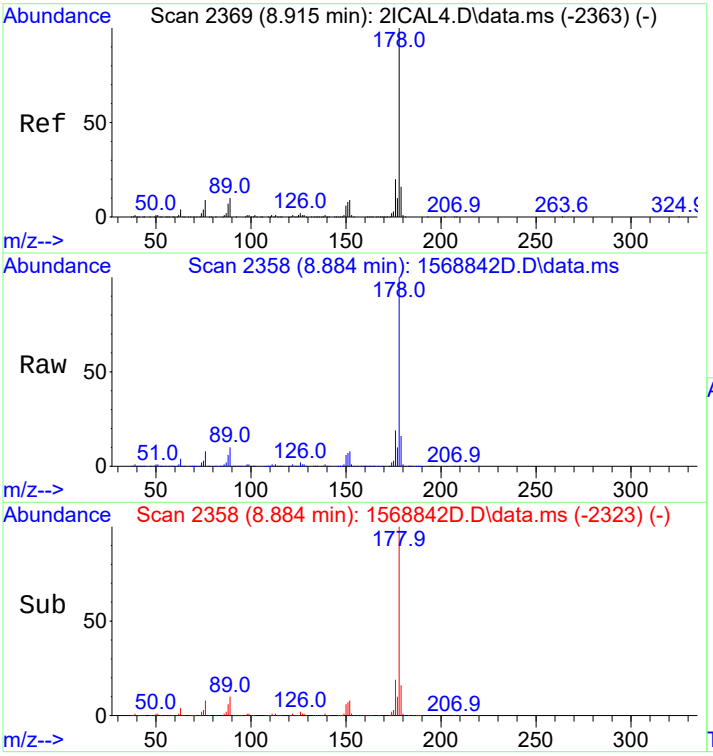




#70
Phenanthrene
Concen: 24.12 ug/mL
RT: 8.853 min Scan# 2347
Delta R.T. 0.000 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:178 Resp: 743530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.1 | 0.0 | 45.9 |
| 176 | 20.5 | 0.0 | 50.4 |

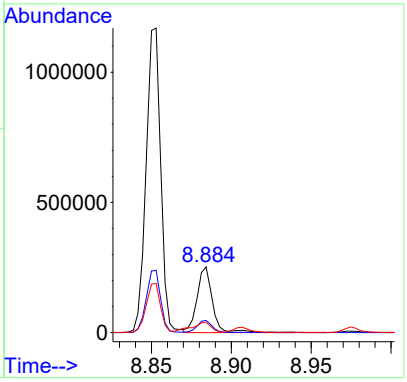


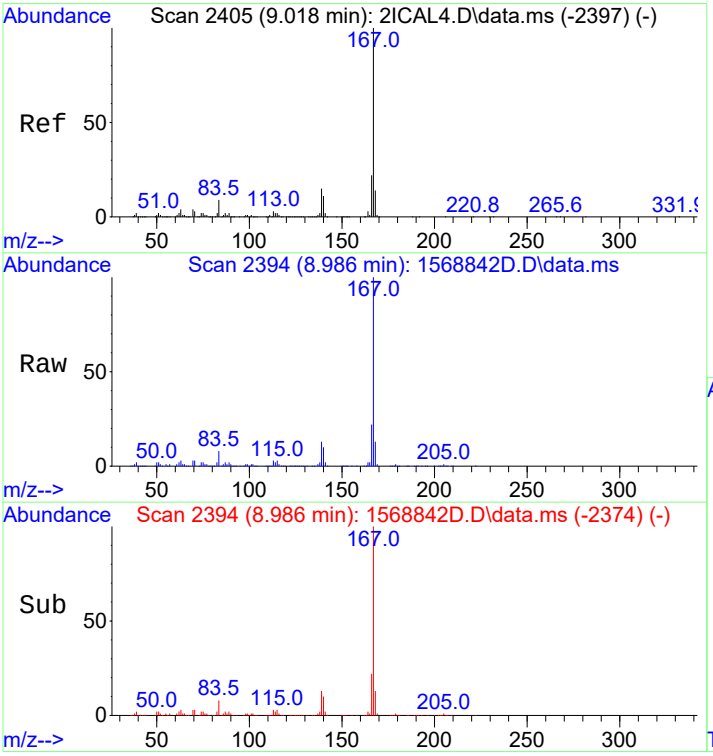



#71
Anthracene
Concen: 5.37 ug/mL
RT: 8.884 min Scan# 2358
Delta R.T. 0.000 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:178 Resp: 168404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 0.0 | 49.5 |
| 179 | 15.5 | 0.0 | 45.9 |

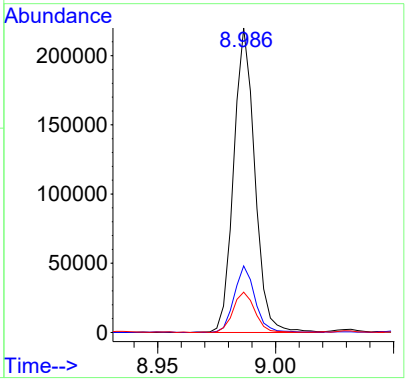


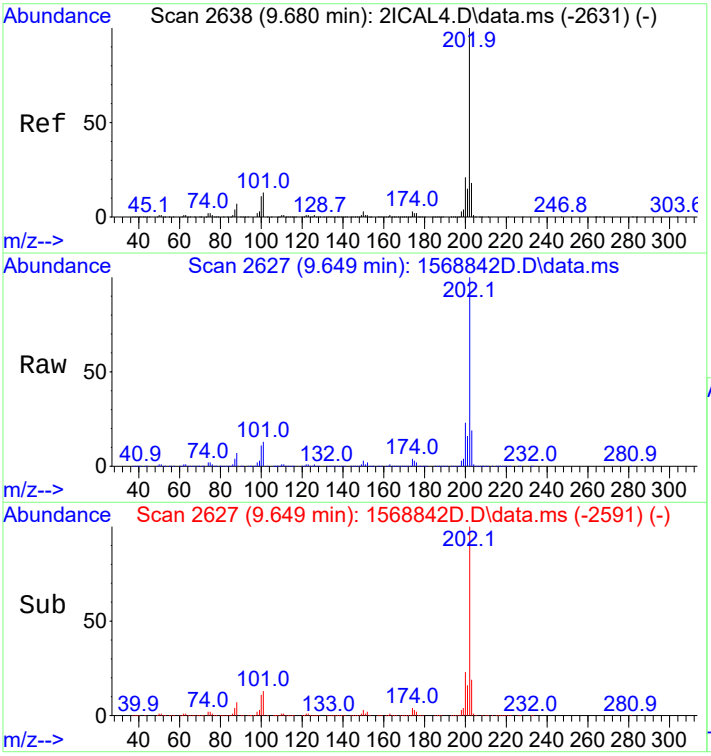




#72
Carbazole
Concen: 5.15 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:167 Resp: 137521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.9 | 0.0 | 52.1 |
| 139 | 13.1 | 0.0 | 44.7 |

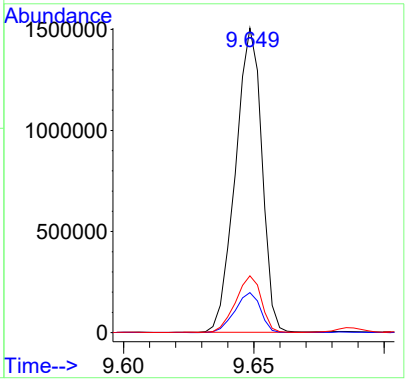


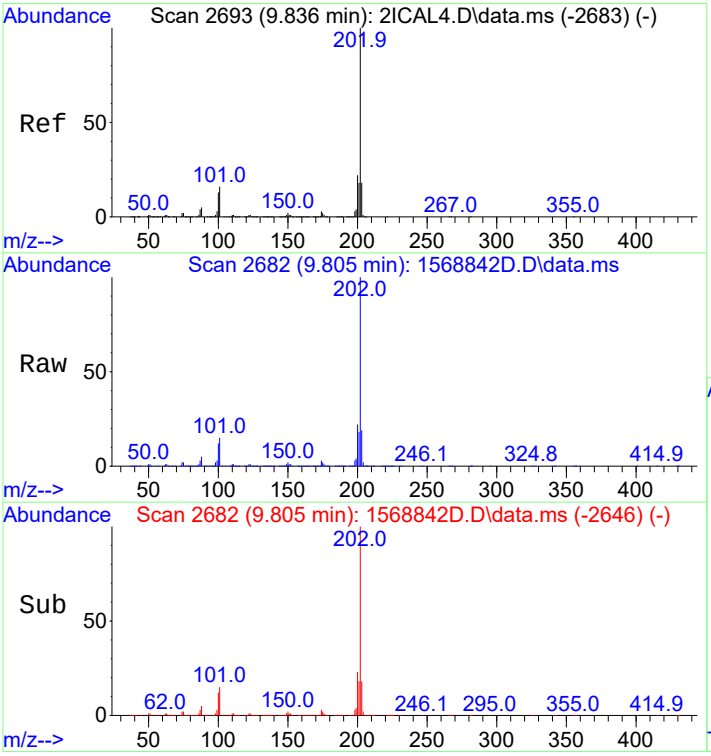



#74
Fluoranthene
Concen: 32.55 ug/mL
RT: 9.649 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:202 Resp: 1059803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.1 | 0.0 | 43.0 |
| 203 | 18.6 | 0.0 | 48.2 |

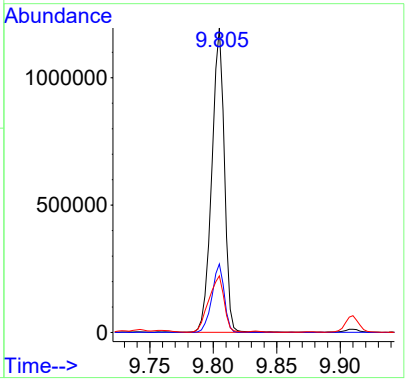


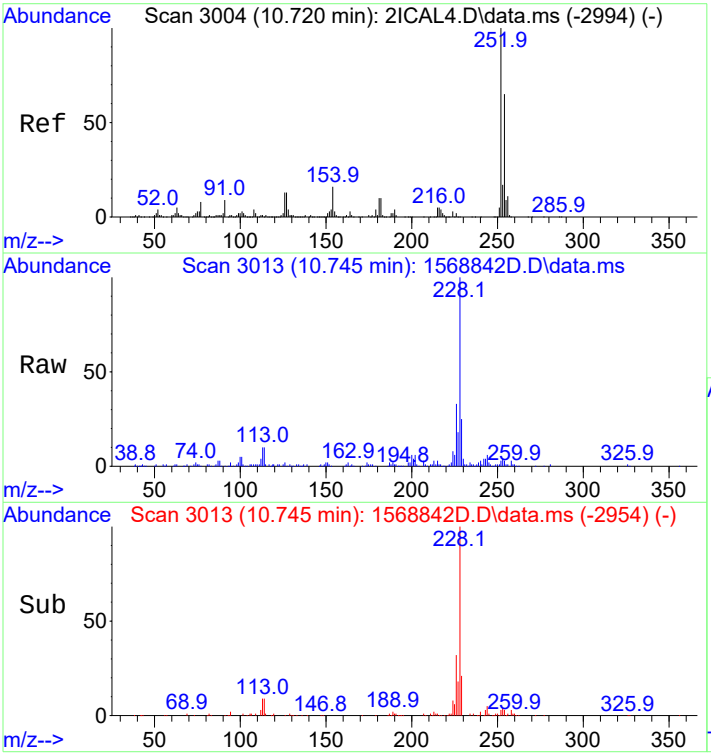




#77
Pyrene
Concen: 23.31 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:202 Resp: 824341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.5 | 0.0 | 52.2 |
| 203 | 18.6 | 0.0 | 48.2 |

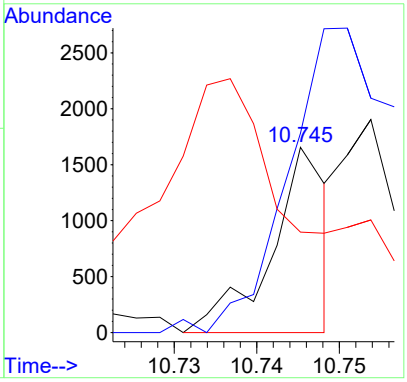


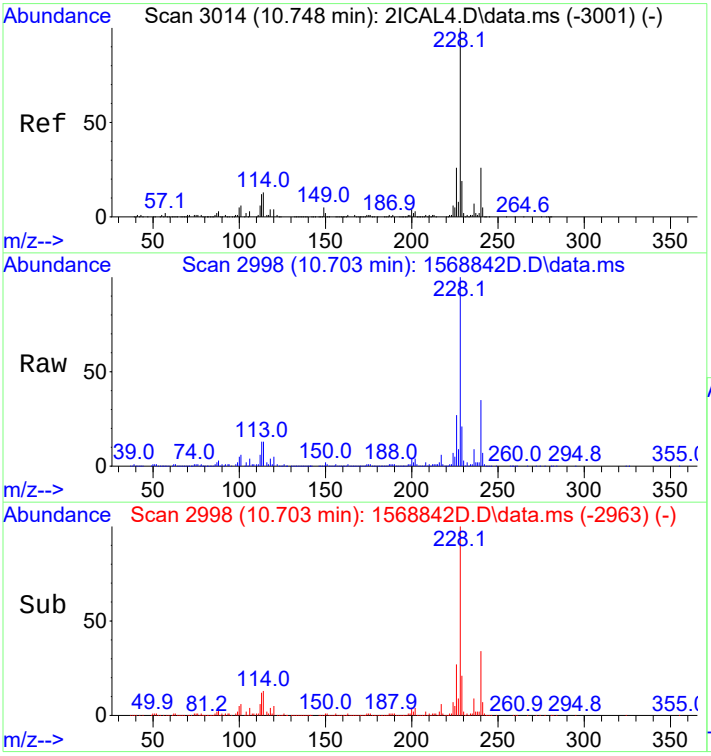



#81
33Diclbnzidin
Concen: Below Cal
RT: 10.745 min Scan# 3013
Delta R.T. 0.068 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:252 Resp: 787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 93.7 | 34.6 | 94.6 |
| 126 | 0.5 | 0.0 | 42.6 |

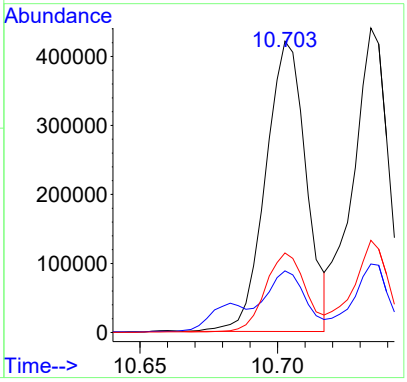


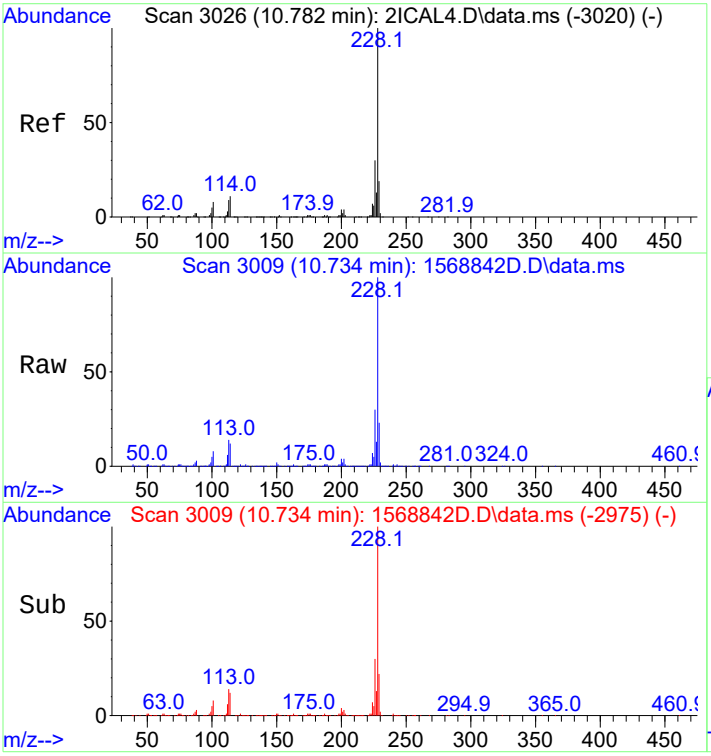




#82
B[a]anthracen
Concen: 12.86 ug/mL
RT: 10.703 min Scan# 2998
Delta R.T. 0.000 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:228 Resp: 431112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.5 | 0.0 | 49.4 |
| 226 | 27.1 | 0.0 | 56.5 |

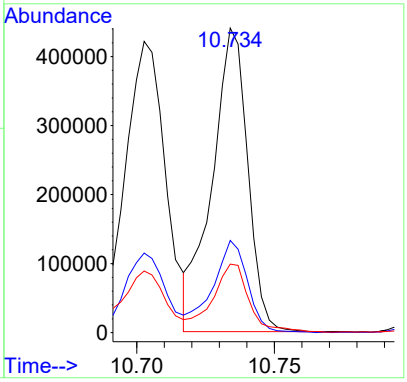


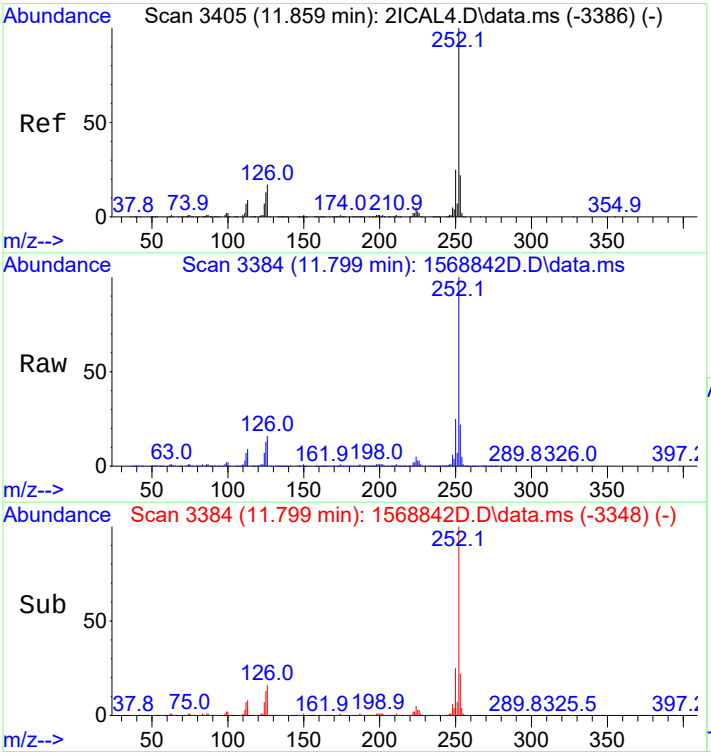



#83
Chrysene
Concen: 12.65 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.003 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:228 Resp: 397579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.1 | 0.0 | 59.9 |
| 229 | 22.4 | 0.0 | 49.5 |

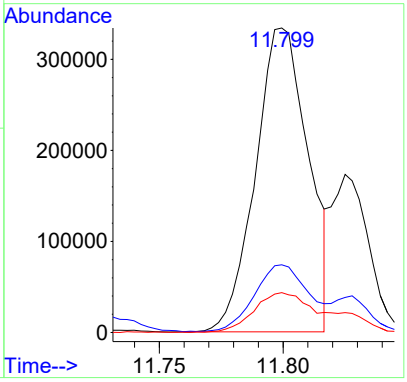


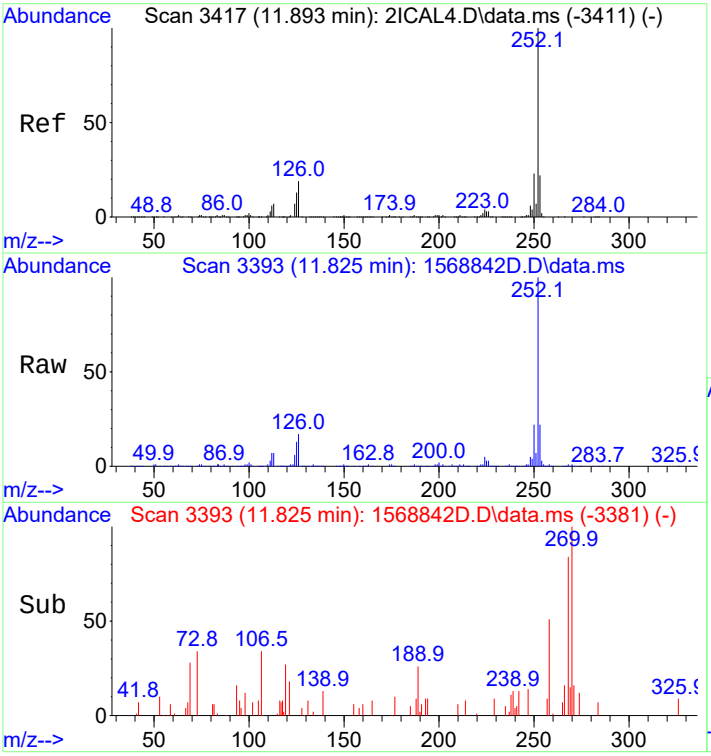




#87
B[b]fluoranth
Concen: 17.43 ug/mL
RT: 11.799 min Scan# 3384
Delta R.T. 0.003 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:252 Resp: 495279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 0.0 | 52.3 |
| 125 | 13.0 | 0.0 | 43.2 |

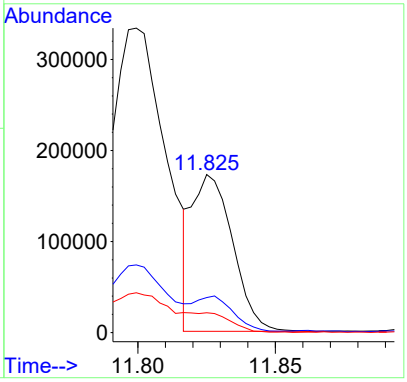


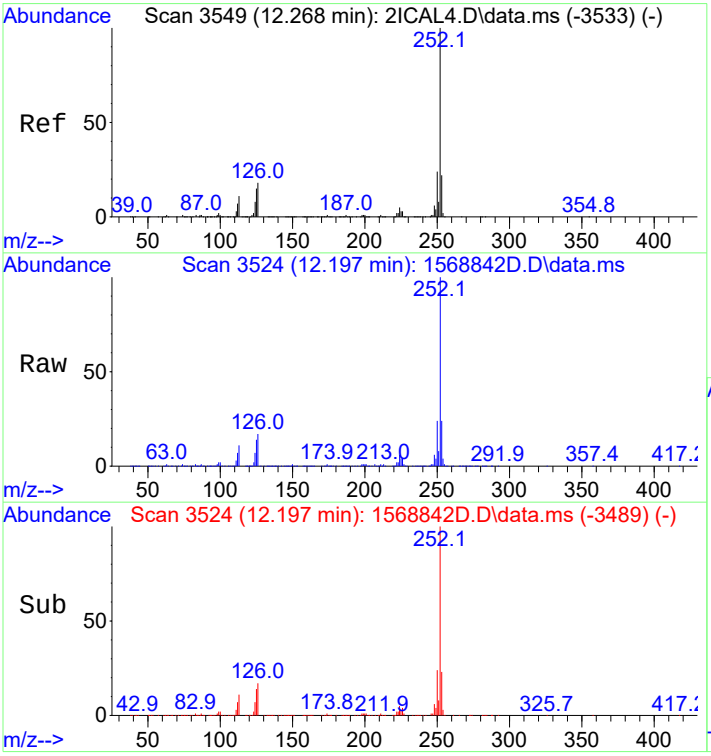



#88
B[k]fluoranth
Concen: 6.19 ug/mL
RT: 11.825 min Scan# 3393
Delta R.T. -0.006 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:252 Resp: 176156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.3 | 0.0 | 52.0 |
| 125 | 12.2 | 0.0 | 43.3 |

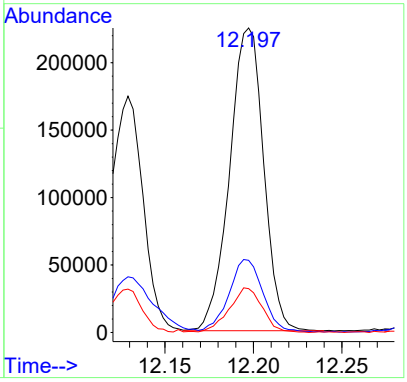


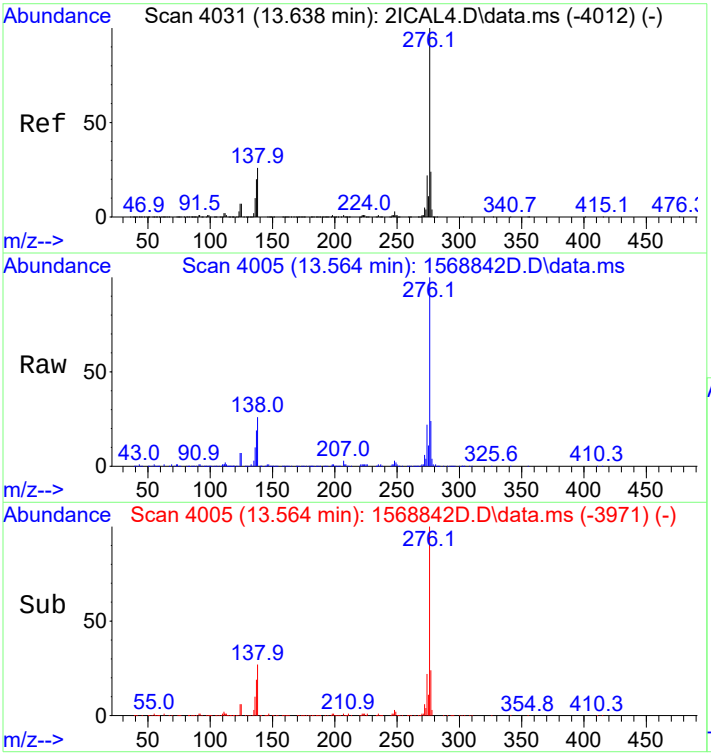




#89
Benz[a]pyrene
Concen: 11.51 ug/mL
RT: 12.197 min Scan# 3524
Delta R.T. 0.000 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:252 Resp: 300871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.7 | 0.0 | 52.3 |
| 125 | 14.3 | 0.0 | 45.1 |

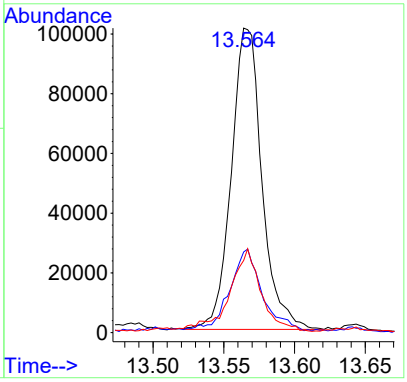


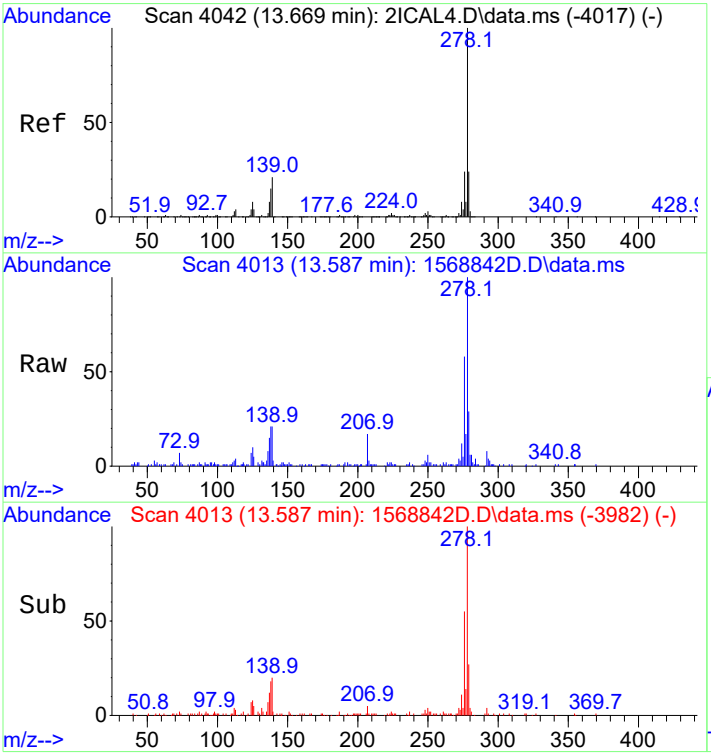



#90
Indeno-pyrene
Concen: 5.28 ug/mL
RT: 13.564 min Scan# 4005
Delta R.T. -0.003 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:276 Resp: 152498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.9 | 0.0 | 55.5 |
| 277 | 23.1 | 0.0 | 54.0 |

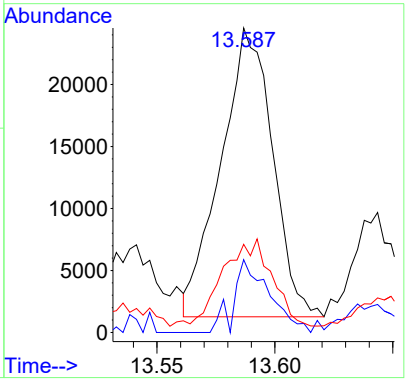


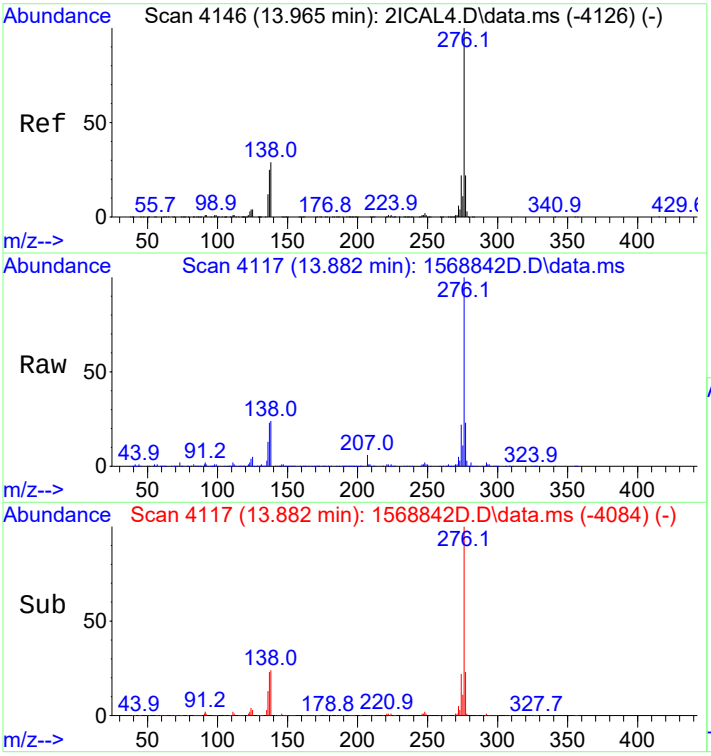




#91
Dib[ah]anthr
Concen: 1.50 ug/mL
RT: 13.587 min Scan# 4013
Delta R.T. -0.011 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:278 Resp: 35536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 25.2 | 0.0 | 50.9 |
| 279 | 28.2 | 0.0 | 54.4 |

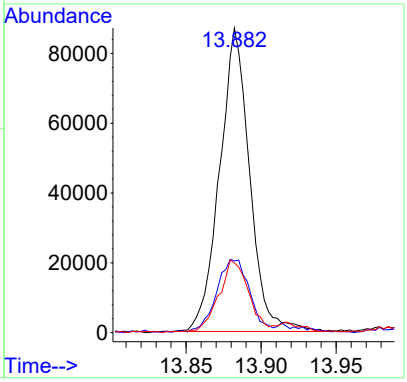





#92
B[ghi]perylen
Concen: 5.36 ug/mL
RT: 13.882 min Scan# 4117
Delta R.T. -0.006 min
Lab File: 1568842D.D
Acq: 11 Apr 2025 18:00

Tgt Ion:276 Resp: 121295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.0 | 0.0 | 59.0 |
| 277 | 22.5 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568841D.D Vial: 20
Acq On : 11 Apr 2025 18:23 Operator: JJY
Sample : 290730,1568841,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:28 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

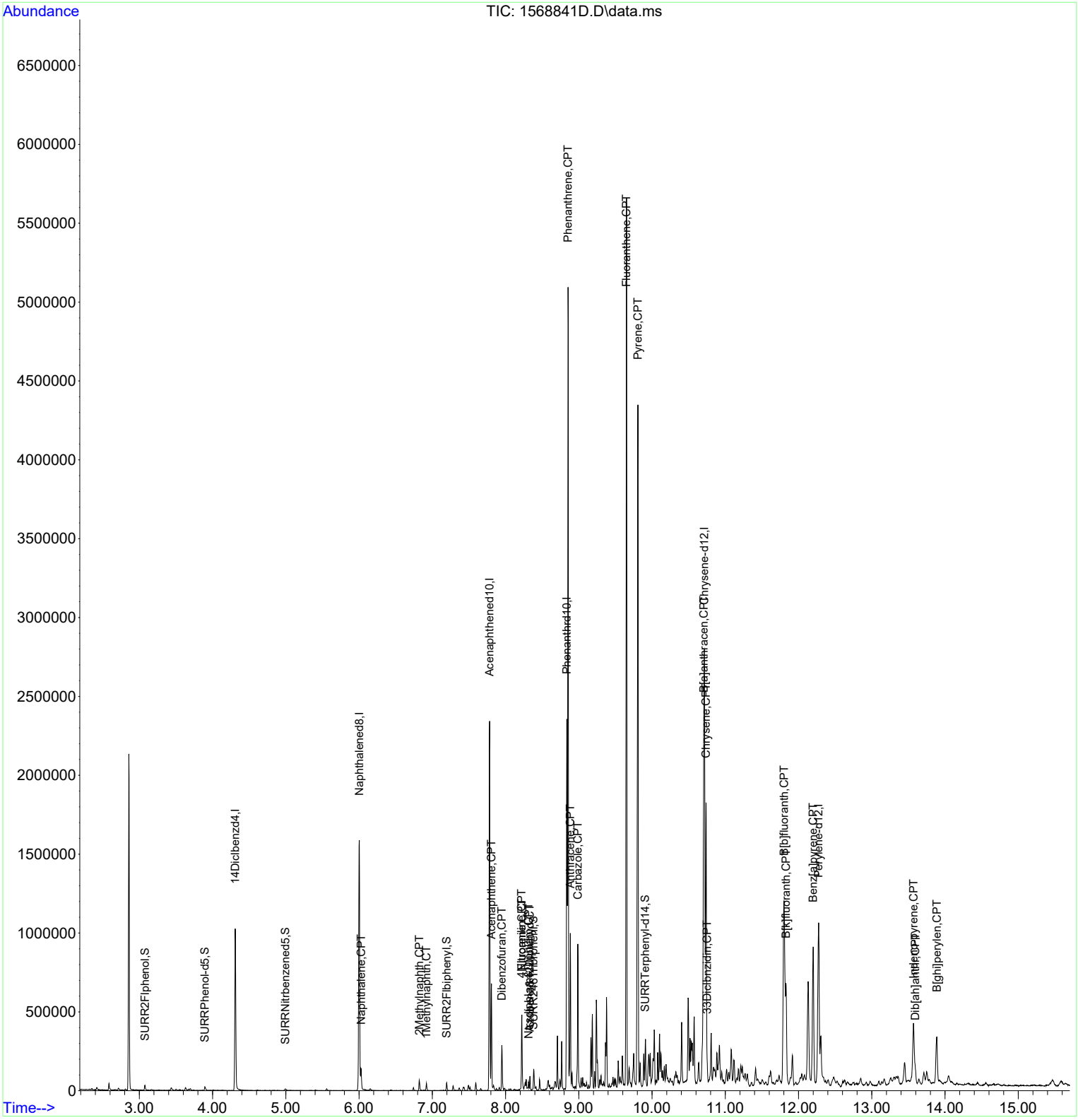
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 159185 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.003 | 136 | 770270 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 428599 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 634501 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 548174 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.274 | 264 | 494832 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.076 | 112 | 7703 | 2.01 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.01% | | | |
| 7) SURRPhenol-d5 | 3.895 | 99 | 8950 | 1.94 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.94% | | | |
| 22) SURRNitrbenzened5 | 4.994 | 82 | 4391 | 2.09 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.09% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 12974 | 2.54 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.54% | | | |
| 62) SURR246Tribrphenl | 8.381 | 330 | 2987 | 2.60 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.60% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 15428 | 2.89 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.89% | | | |
| Target Compounds | | | | | | Qvalue |
| 31) Naphthalene | 6.029 | 128 | 54241 | 1.5269 | ug/mL | 98 |
| 37) 2Methylnaphth | 6.821 | 142 | 16519 | 0.7694 | ug/mL | 97 |
| 38) 1Methylnaphth | 6.921 | 142 | 10755 | 0.4844 | ug/mL | 87 |
| 50) Acenaphthene | 7.807 | 154 | 118172 | 5.7323 | ug/mL | 99 |
| 53) Dibenzofuran | 7.949 | 168 | 88676 | 2.9787 | ug/mL | 91 |
| 58) Fluorene | 8.222 | 166 | 101286 | 4.4506 | ug/mL | 100 |
| 61) 4Nitroaniline | 8.219 | 138 | 1168 | 0.5384 | ug/mL# | 40 |
| 65) Ntrsdiphlam&Diphlam | 8.316 | 169 | 1053 | 0.0644 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 15553 | 2.6662 | ug/mL# | 1 |
| 70) Phenanthrene | 8.853 | 178 | 1325229 | 42.8702 | ug/mL | 99 |
| 71) Anthracene | 8.884 | 178 | 275953 | 8.7740 | ug/mL | 98 |
| 72) Carbazole | 8.986 | 167 | 251369 | 9.3859 | ug/mL | 97 |
| 74) Fluoranthene | 9.651 | 202 | 1672832 | 51.2474 | ug/mL | 98 |
| 76) Benzidine | 9.771 | 184 | 886 | Below Cal | | 79 |
| 77) Pyrene | 9.808 | 202 | 1272915 | 36.5581 | ug/mL | 98 |
| 81) 33Diclbnzidin | 10.751 | 252 | 2645 | 0.1113 | ug/mL# | 2 |
| 82) B[a]anthracen | 10.706 | 228 | 611374 | 18.5247 | ug/mL | 98 |
| 83) Chrysene | 10.737 | 228 | 595696 | 19.2457 | ug/mL | 97 |
| 87) B[b]fluoranth | 11.802 | 252 | 691870 | 26.3950 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.828 | 252 | 245896 | 9.3631 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.200 | 252 | 415519 | 17.2373 | ug/mL | 99 |
| 90) Indeno-pyrene | 13.570 | 276 | 208812 | 7.8318 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.592 | 278 | 44877 | 2.0591 | ug/mL | 97 |
| 92) B[ghi]perylen | 13.888 | 276 | 159090 | 7.6160 | ug/mL | 94 |

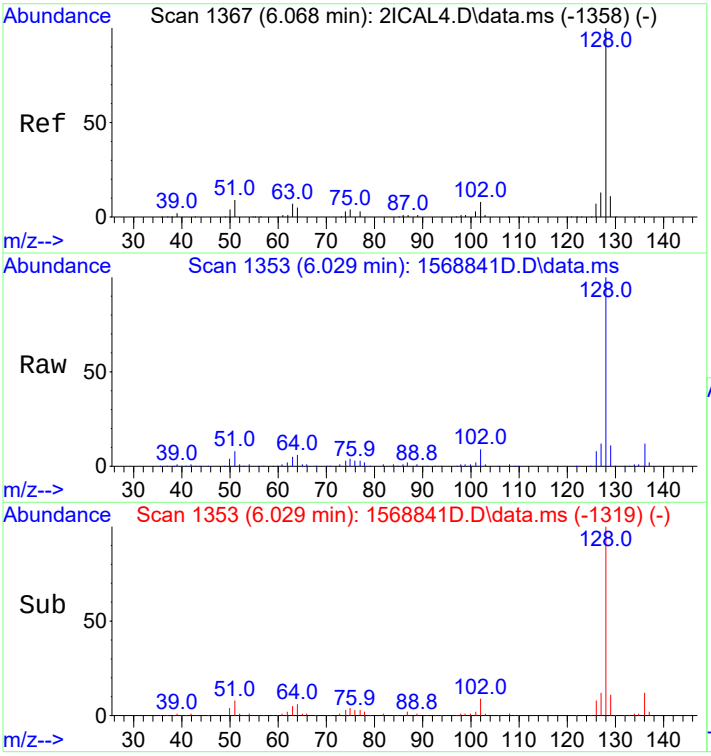
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568841D.D Vial: 20
Acq On : 11 Apr 2025 18:23 Operator: JJY
Sample : 290730,1568841,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:28 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

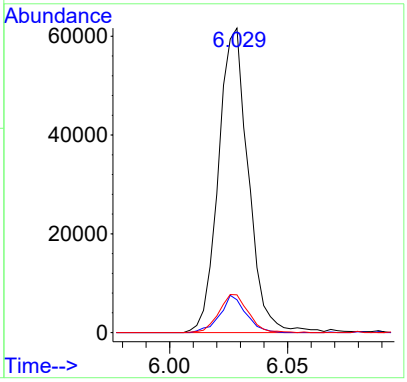


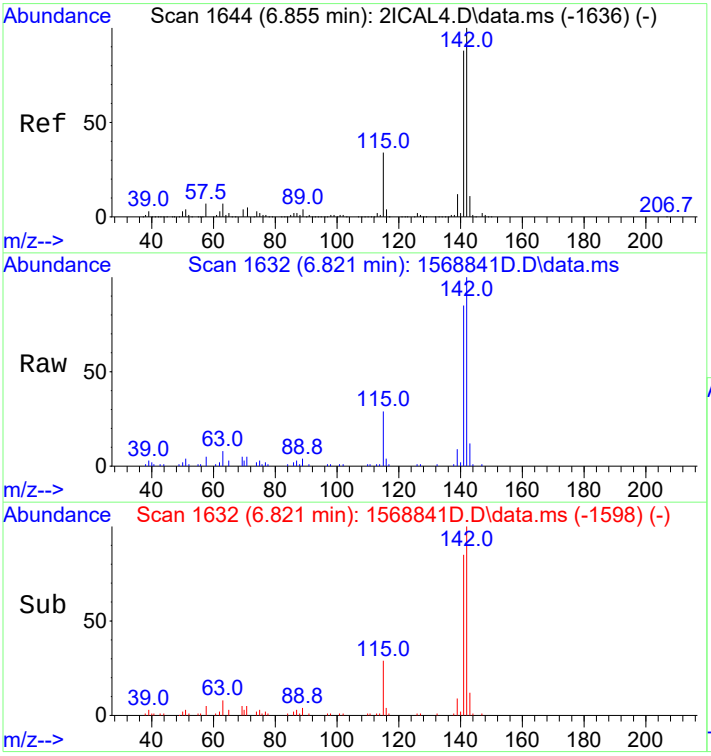



#31
Naphthalene
Concen: 1.53 ug/mL
RT: 6.029 min Scan# 1353
Delta R.T. -0.003 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:128 Resp: 54241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.7 | 0.0 | 41.0 |
| 127 | 12.4 | 0.0 | 43.3 |

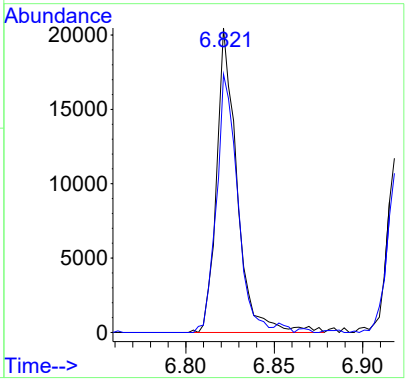


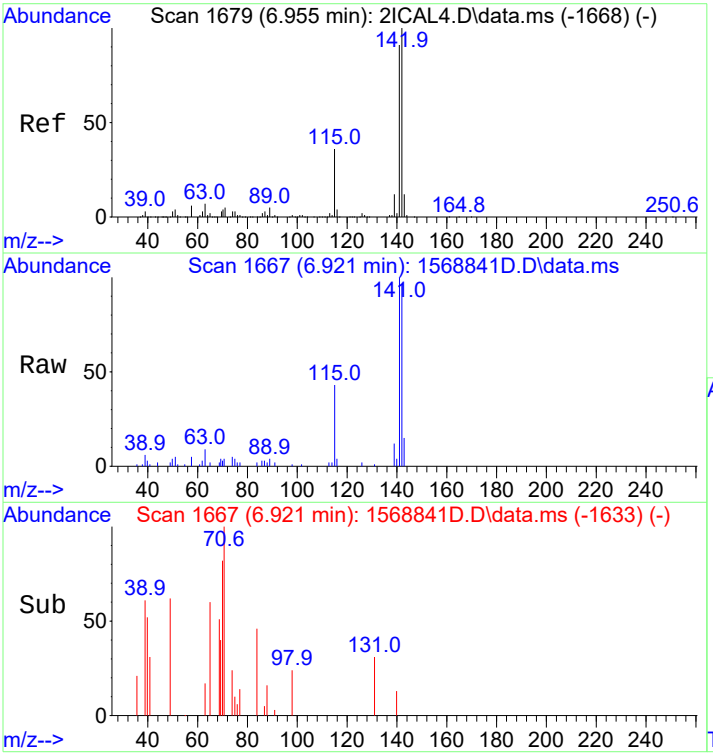




#37
2Methylnaphth
Concen: 0.77 ug/mL
RT: 6.821 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:142 Resp: 16519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 84.8 | 58.0 | 118.0 |

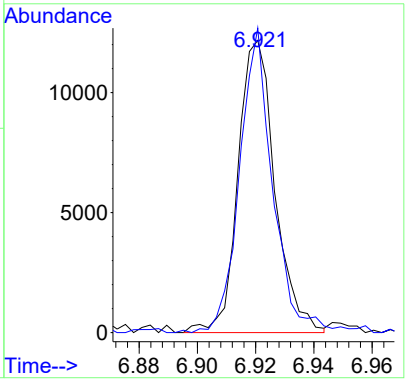


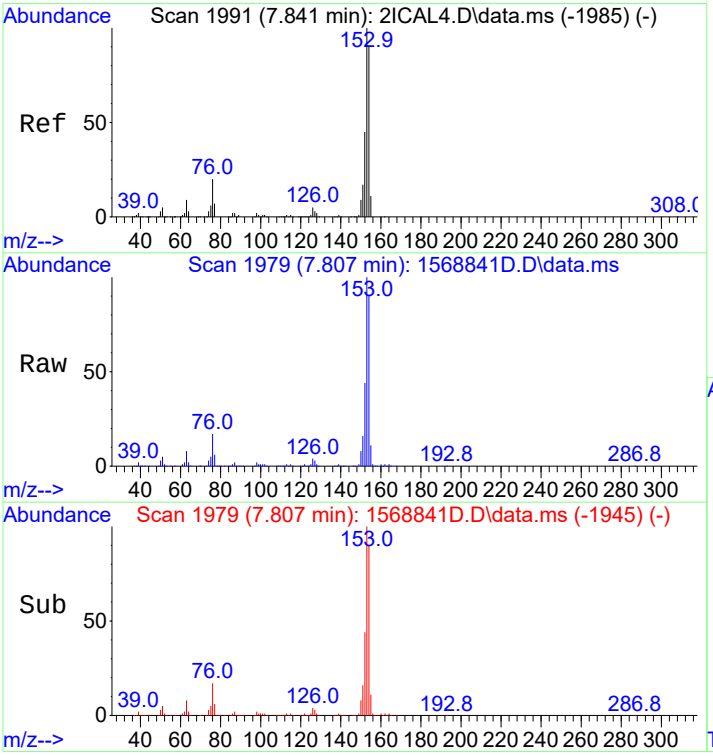



#38
1Methylnaphth
Concen: 0.48 ug/mL
RT: 6.921 min Scan# 1667
Delta R.T. -0.003 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:142 Resp: 10755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 103.4 | 60.7 | 120.7 |

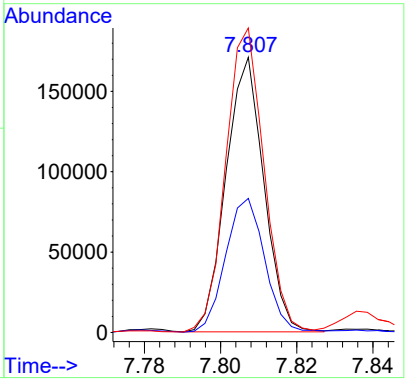


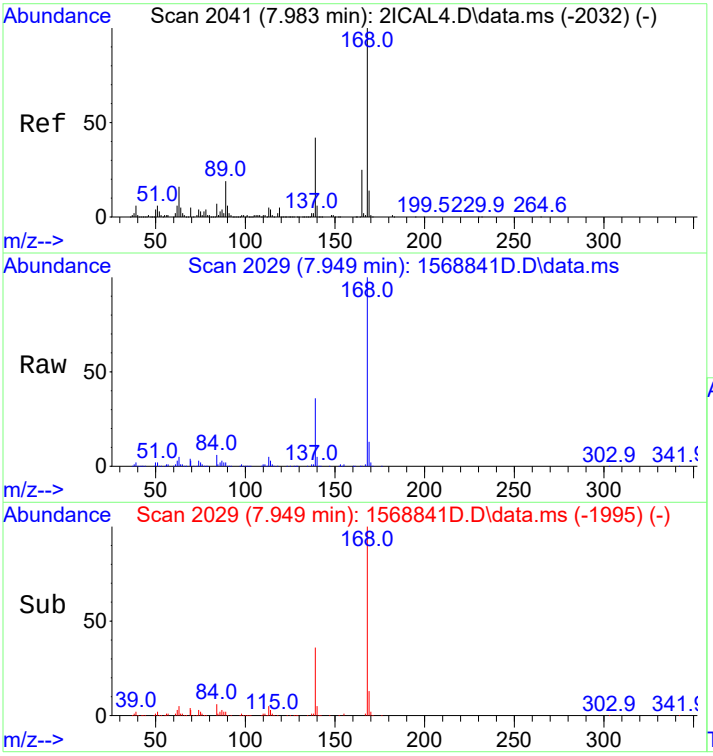




#50
Acenaphthene
Concen: 5.73 ug/mL
RT: 7.807 min Scan# 1979
Delta R.T. -0.003 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:154 Resp: 118172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 48.6 | 20.0 | 80.0 |
| 153 | 110.8 | 80.7 | 140.7 |

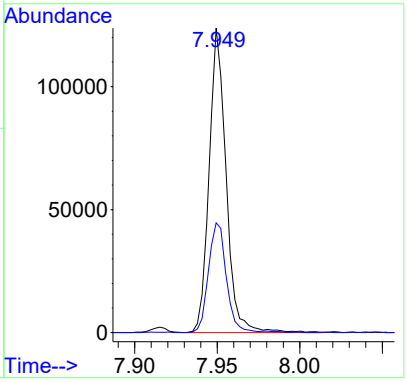


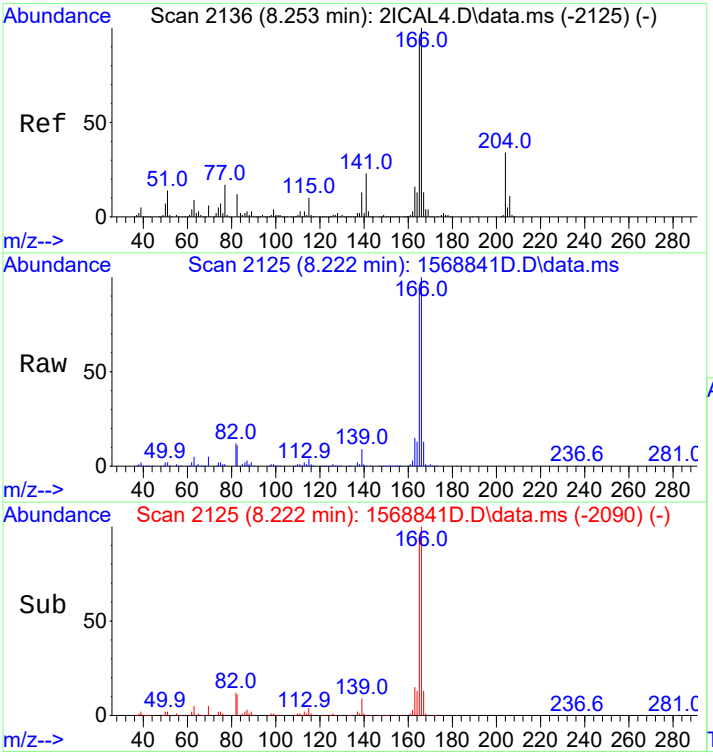



#53
Dibenzofuran
Concen: 2.98 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:168 Resp: 88676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 36.1 | 11.9 | 71.9 |

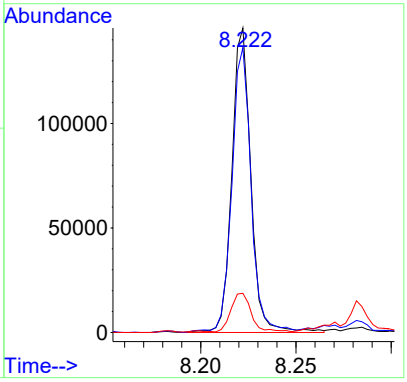


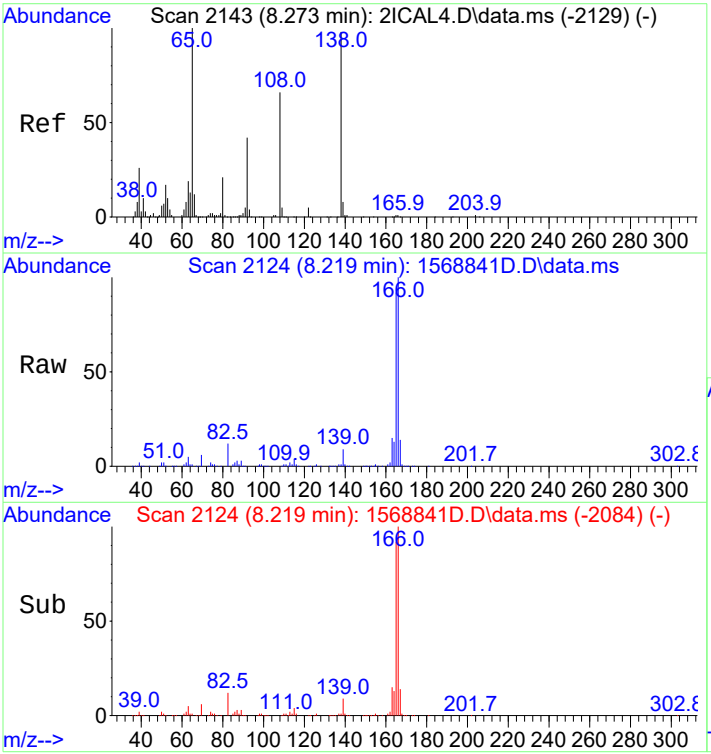




#58
Fluorene
Concen: 4.45 ug/mL
RT: 8.222 min Scan# 2125
Delta R.T. 0.000 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:166 Resp: 101286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 93.5 | 63.6 | 123.6 |
| 167 | 12.7 | 0.0 | 43.3 |

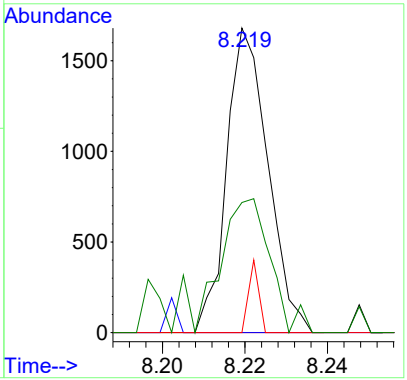


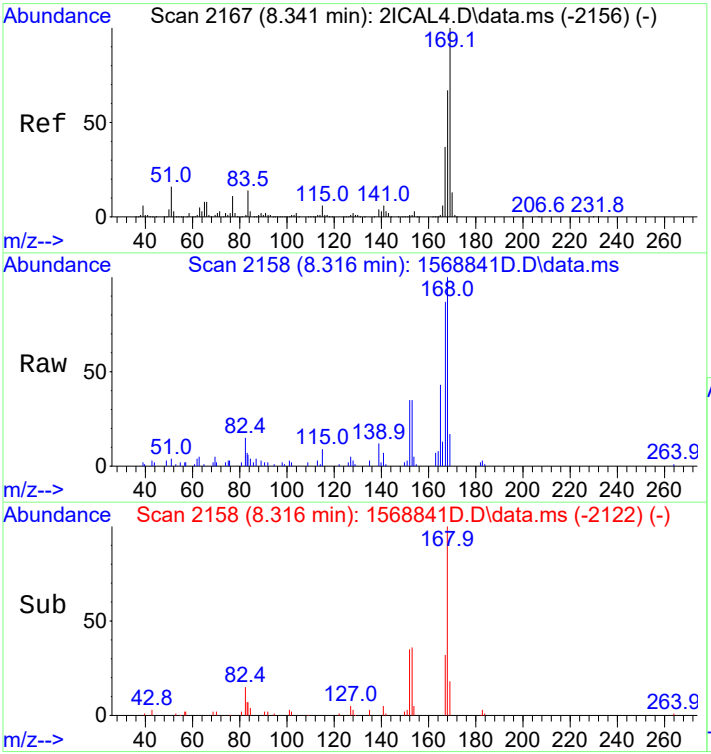



#61
4Nitroaniline
Concen: 0.54 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.026 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:138 Resp: 1168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 18.9 | 36.9 | 96.9# |
| 65 | 42.7 | 71.1 | 131.1# |

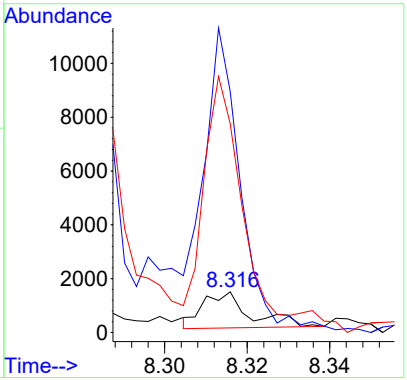


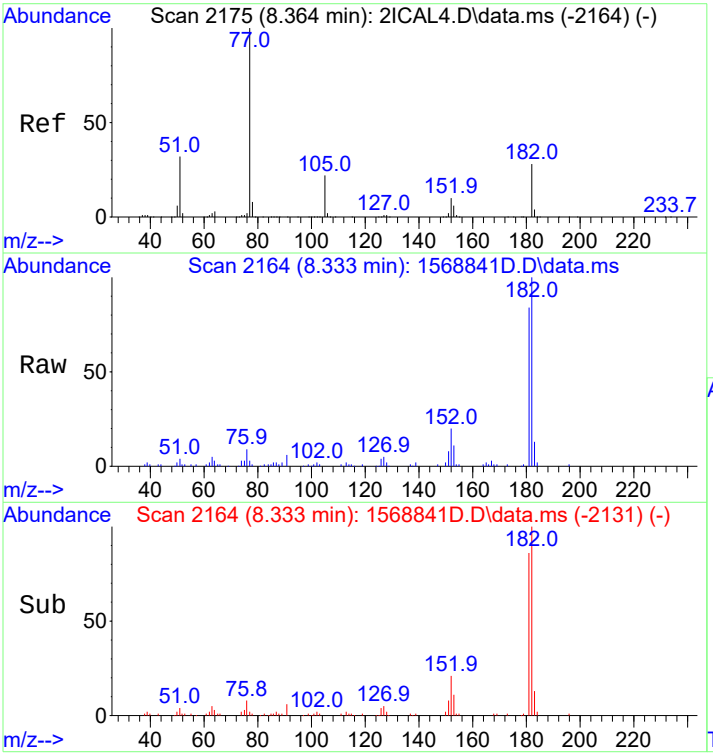




#65
Ntrsdiphlam&Diphlam
Concen: 0.06 ug/mL
RT: 8.316 min Scan# 2158
Delta R.T. 0.003 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:169 Resp: 1053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 678.1 | 37.2 | 97.2# |
| 167 | 570.4 | 6.9 | 66.9# |

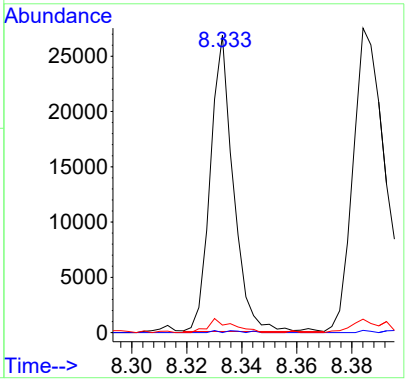


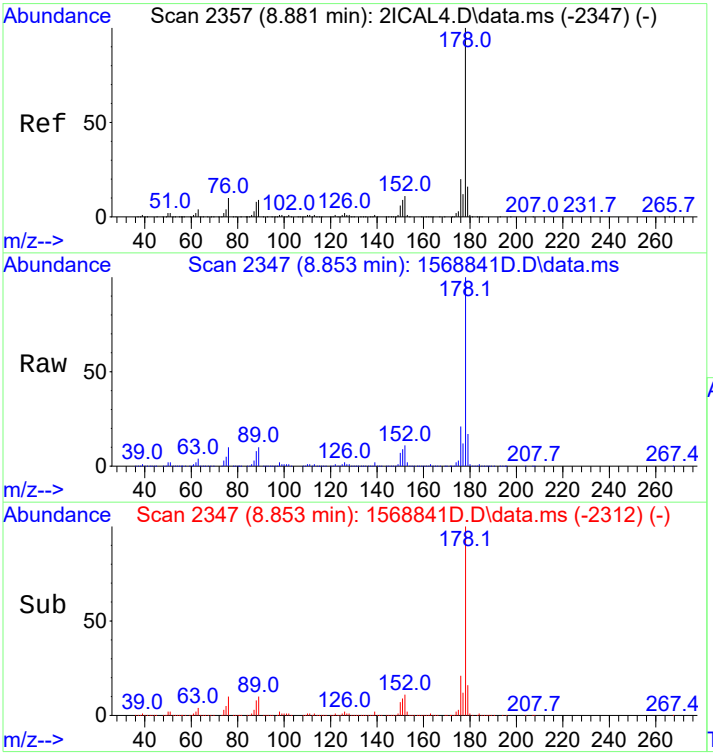



#66
Azobenz&12Diphlhyd
Concen: 2.67 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:182 Resp: 15553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.0 | 49.9 | 109.9# |
| 77 | 2.5 | 339.9 | 399.9# |

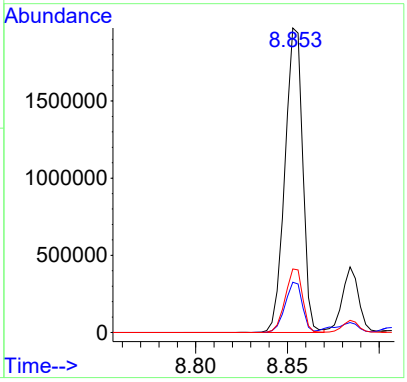


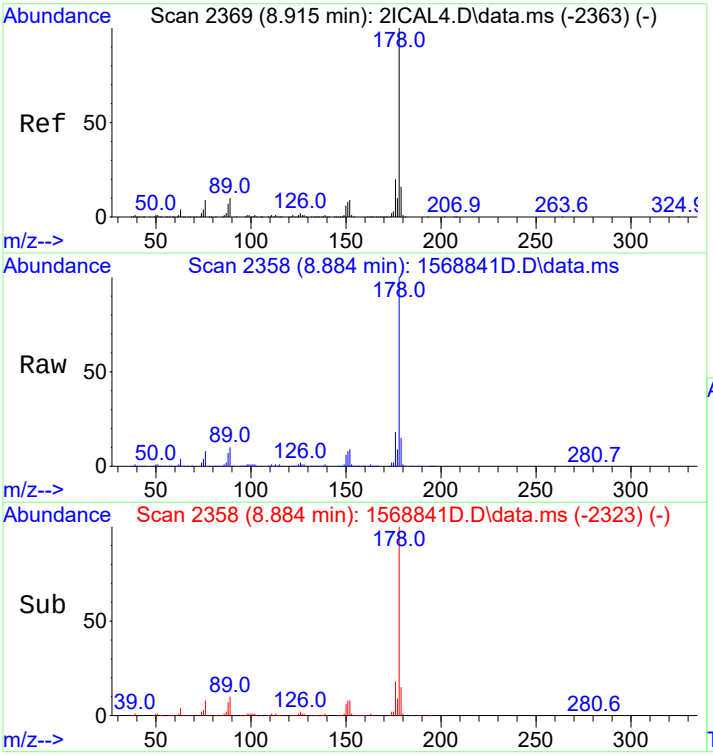




#70
Phenanthrene
Concen: 42.87 ug/mL
RT: 8.853 min Scan# 2347
Delta R.T. 0.000 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:178 Resp: 1325229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.5 | 0.0 | 45.9 |
| 176 | 20.9 | 0.0 | 50.4 |

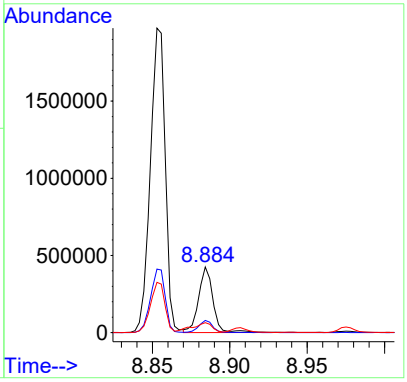


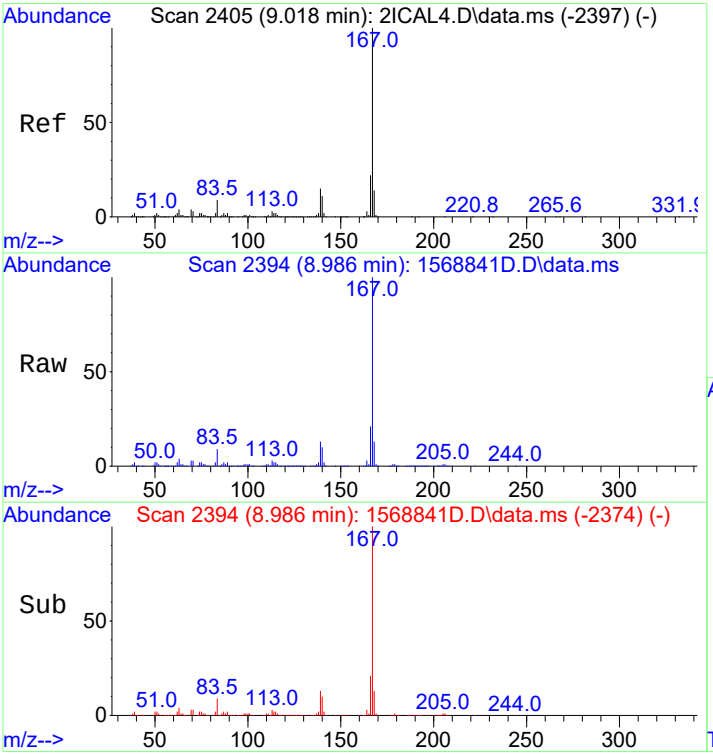



#71
Anthracene
Concen: 8.77 ug/mL
RT: 8.884 min Scan# 2358
Delta R.T. 0.000 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:178 Resp: 275953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.5 | 0.0 | 49.5 |
| 179 | 15.2 | 0.0 | 45.9 |

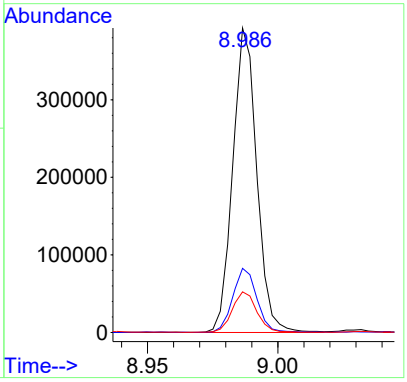


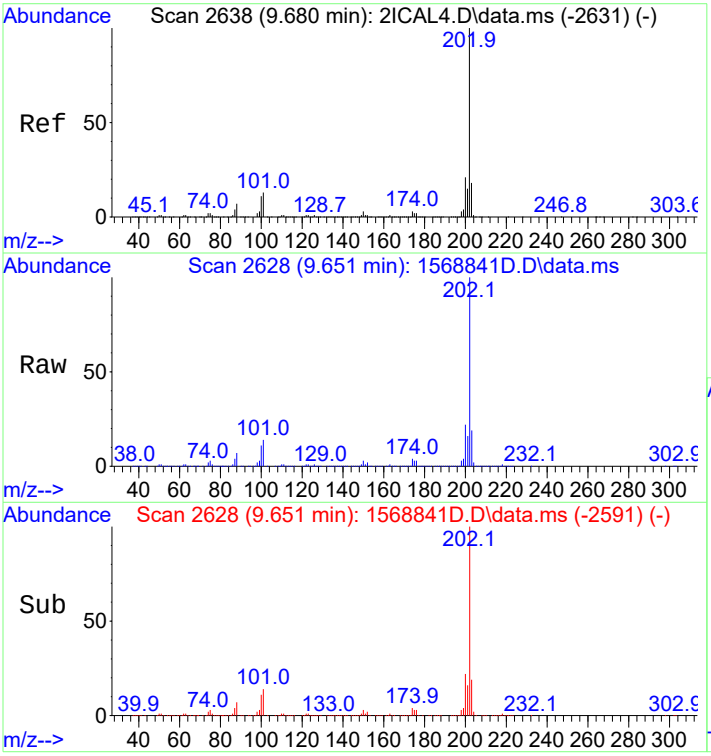




#72
Carbazole
Concen: 9.39 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:167 Resp: 251369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.0 | 0.0 | 52.1 |
| 139 | 13.3 | 0.0 | 44.7 |

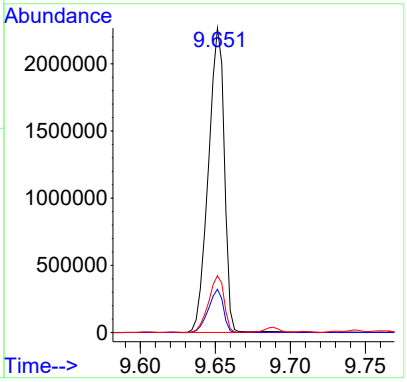


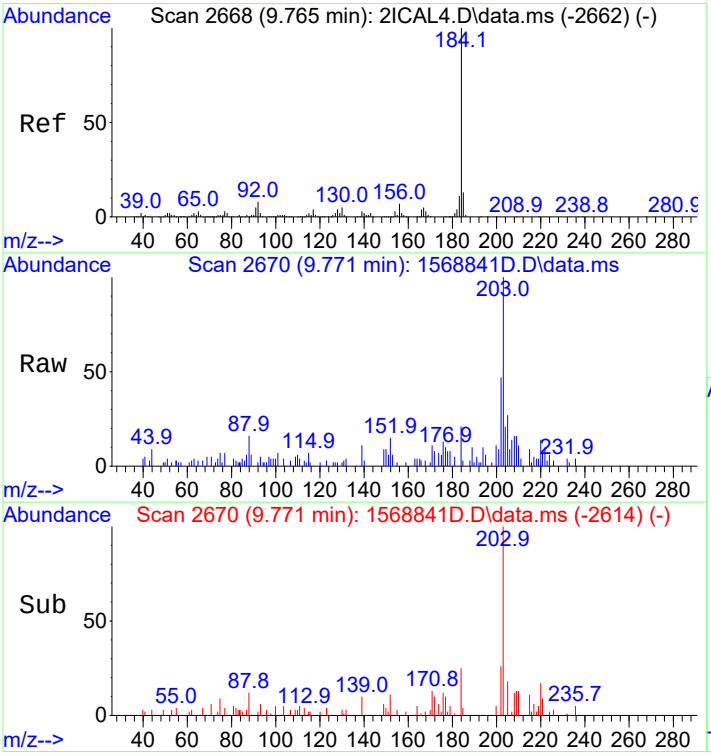



#74
Fluoranthene
Concen: 51.25 ug/mL
RT: 9.651 min Scan# 2628
Delta R.T. 0.006 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:202 Resp: 1672832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 14.3 | 0.0 | 43.0 |
| 203 | 18.7 | 0.0 | 48.2 |

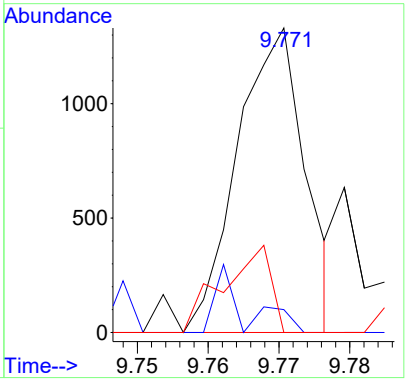


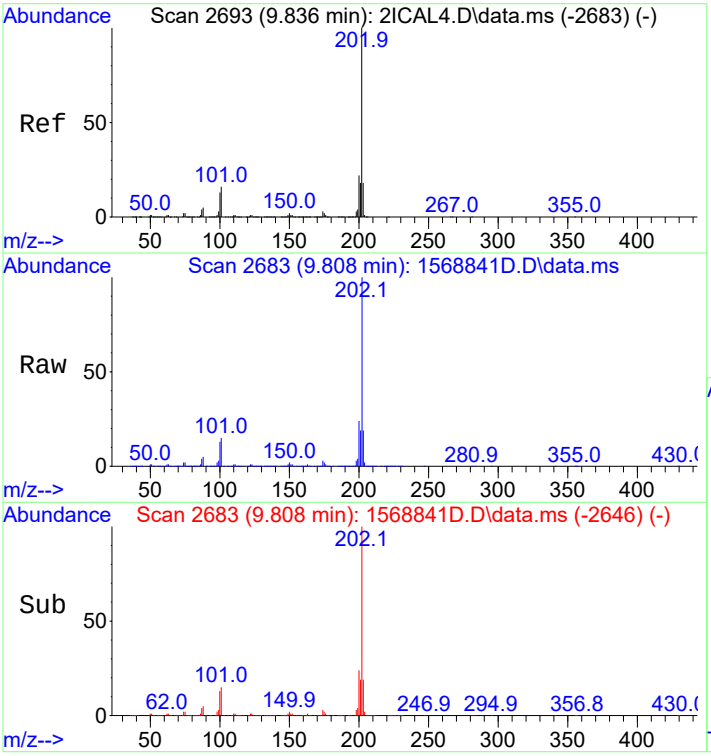




#76
Benzidine
Concen: Below Cal
RT: 9.771 min Scan# 2670
Delta R.T. 0.040 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:184 Resp: 886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 7.5 | 0.0 | 38.2 |
| 185 | 0.0 | 0.0 | 43.3 |

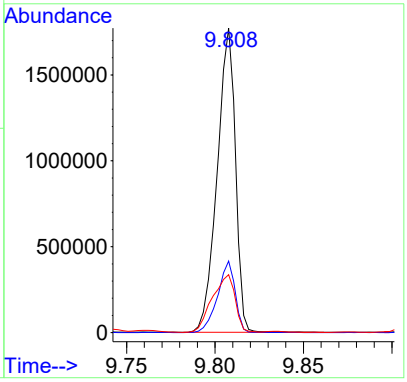


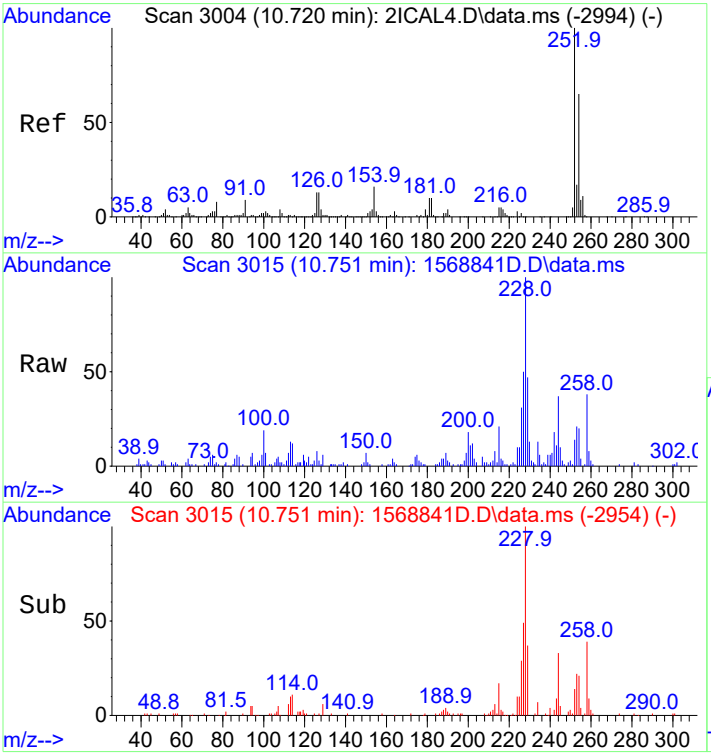



#77
Pyrene
Concen: 36.56 ug/mL
RT: 9.808 min Scan# 2683
Delta R.T. 0.006 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:202 Resp: 1272915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 23.5 | 0.0 | 52.2 |
| 203 | 19.0 | 0.0 | 48.2 |

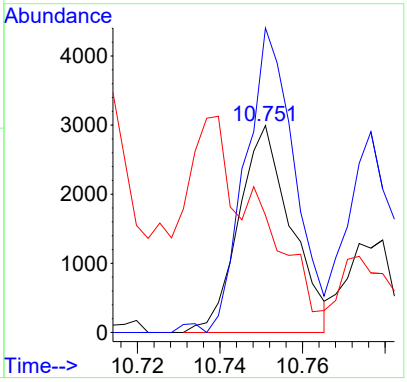


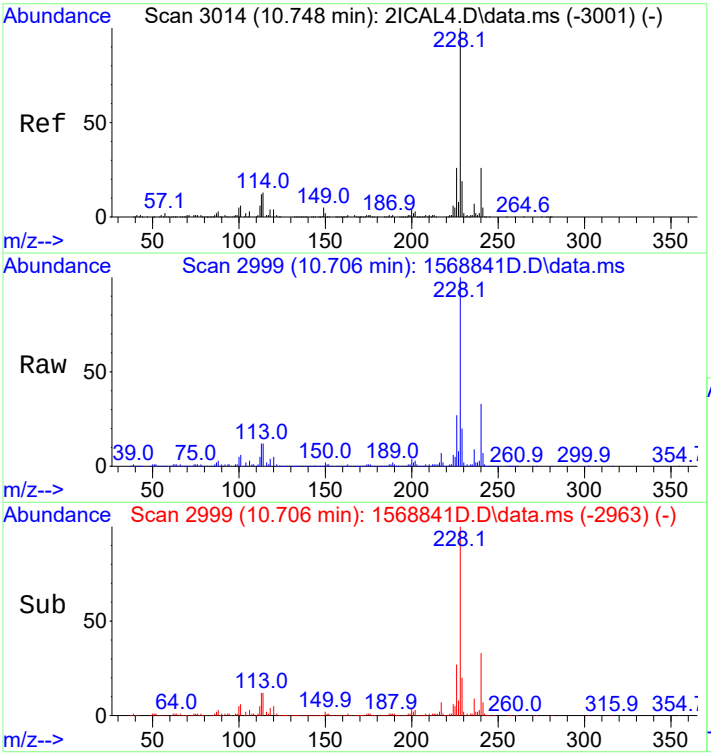




#81
33Diclbnzidin
Concen: 0.11 ug/mL
RT: 10.751 min Scan# 3015
Delta R.T. 0.074 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:252 Resp: 2645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 143.3 | 34.6 | 94.6# |
| 126 | 46.1 | 0.0 | 42.6# |

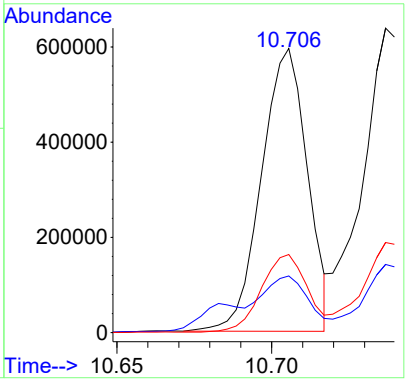


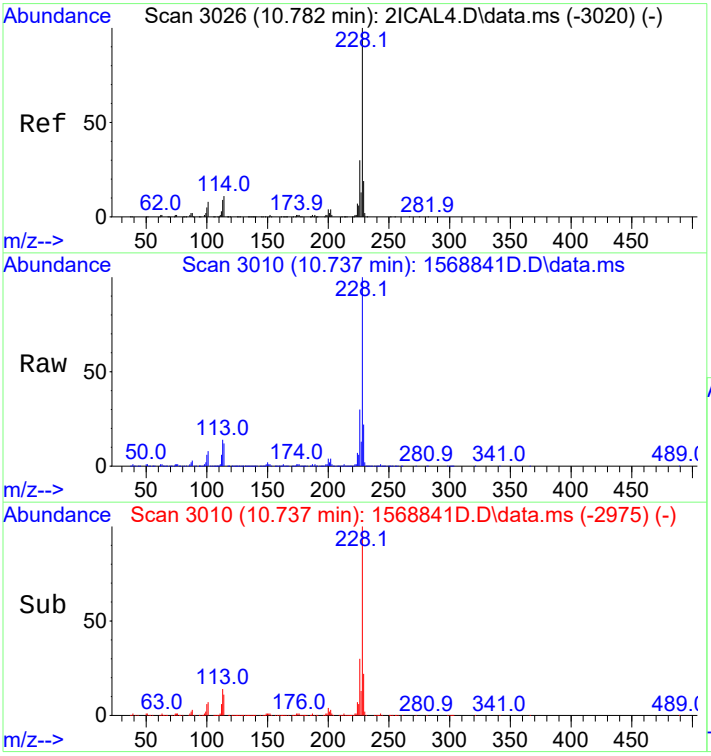



#82
B[a]anthracen
Concen: 18.52 ug/mL
RT: 10.706 min Scan# 2999
Delta R.T. 0.003 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:228 Resp: 611374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 18.3 | 0.0 | 49.4 |
| 226 | 27.4 | 0.0 | 56.5 |

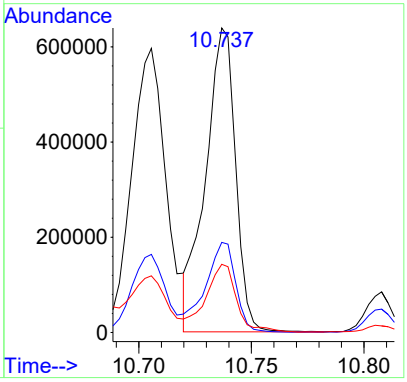


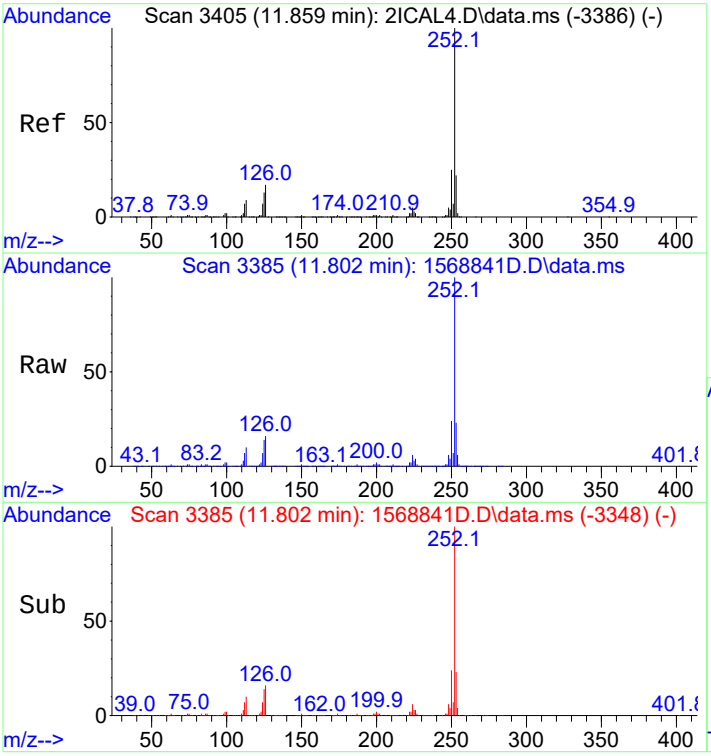




#83
Chrysene
Concen: 19.25 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. 0.000 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:228 Resp: 595696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.5 | 0.0 | 59.9 |
| 229 | 22.3 | 0.0 | 49.5 |

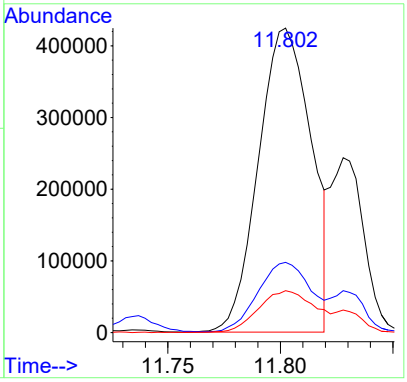


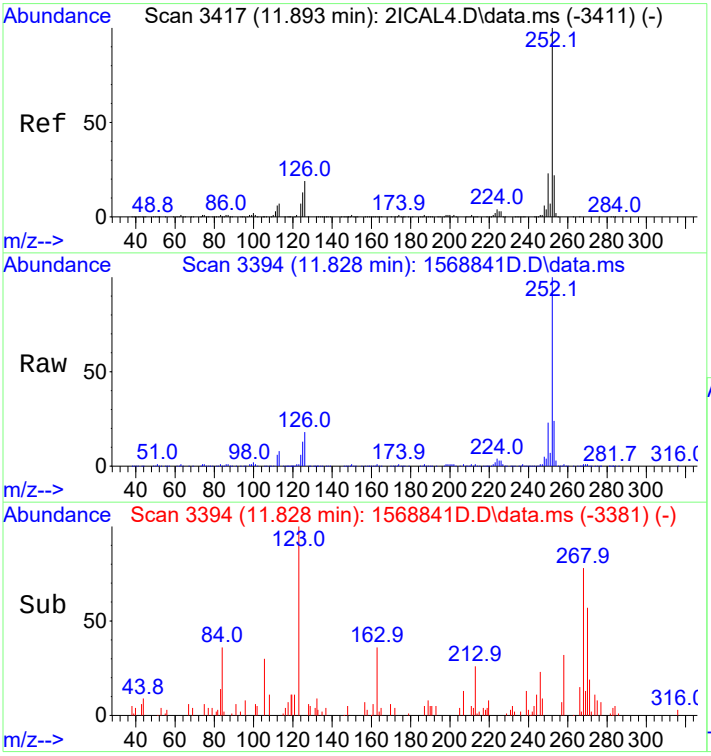



#87
B[b]fluoranth
Concen: 26.40 ug/mL
RT: 11.802 min Scan# 3385
Delta R.T. 0.006 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:252 Resp: 691870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.7 | 0.0 | 52.3 |
| 125 | 13.7 | 0.0 | 43.2 |

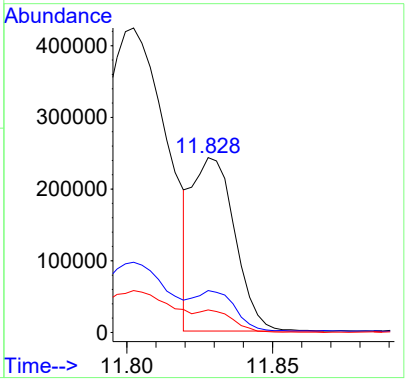


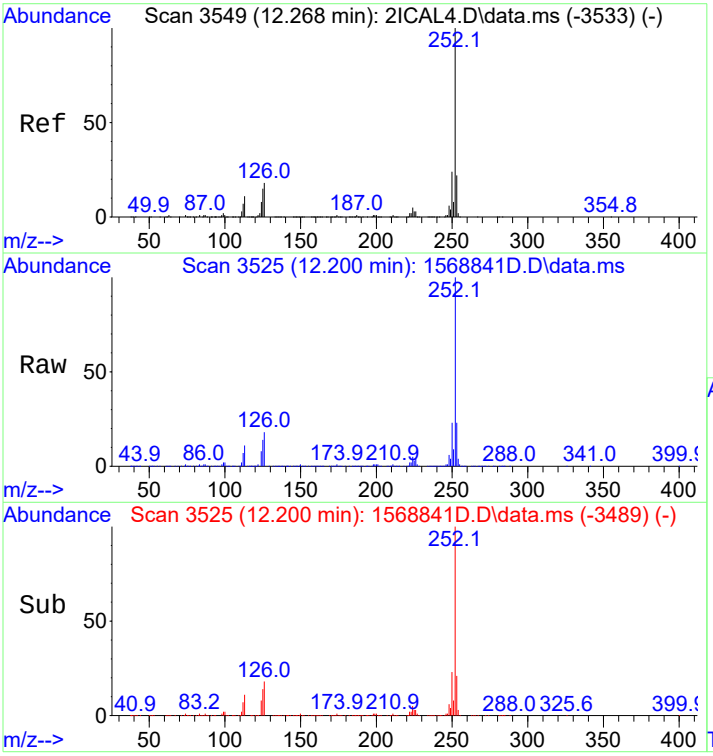




#88
B[k]fluoranth
Concen: 9.36 ug/mL
RT: 11.828 min Scan# 3394
Delta R.T. -0.003 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:252 Resp: 245896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.1 | 0.0 | 52.0 |
| 125 | 13.0 | 0.0 | 43.3 |

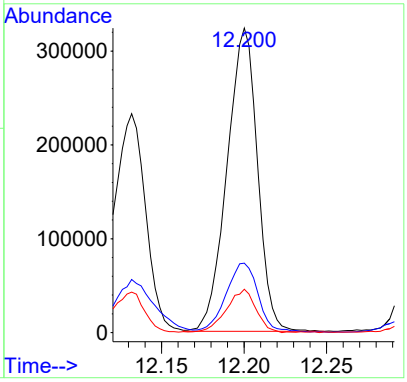


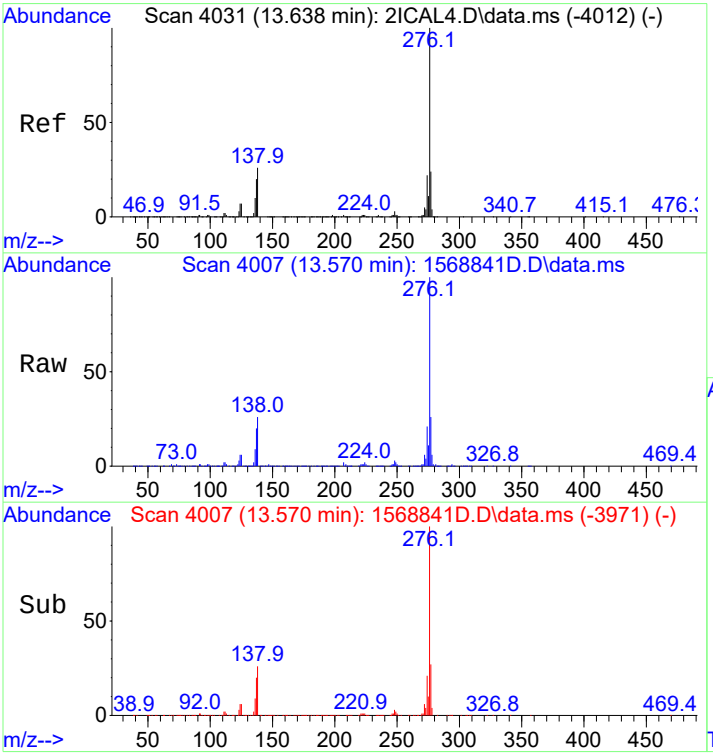



#89
Benz[a]pyrene
Concen: 17.24 ug/mL
RT: 12.200 min Scan# 3525
Delta R.T. 0.003 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:252 Resp: 415519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.7 | 0.0 | 52.3 |
| 125 | 14.1 | 0.0 | 45.1 |

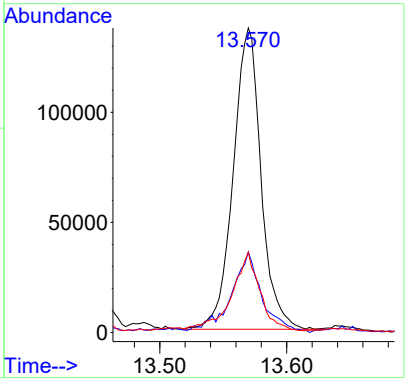


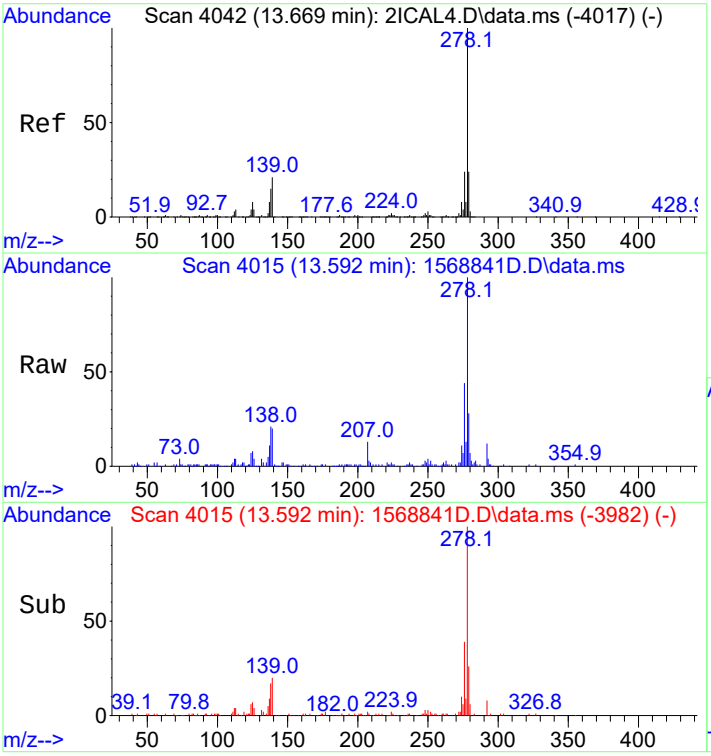




#90
Indeno-pyrene
Concen: 7.83 ug/mL
RT: 13.570 min Scan# 4007
Delta R.T. 0.003 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:276 Resp: 208812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.9 | 0.0 | 55.5 |
| 277 | 25.8 | 0.0 | 54.0 |

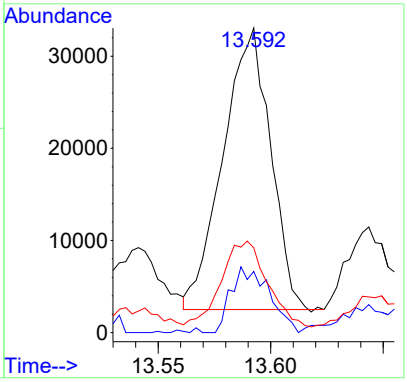


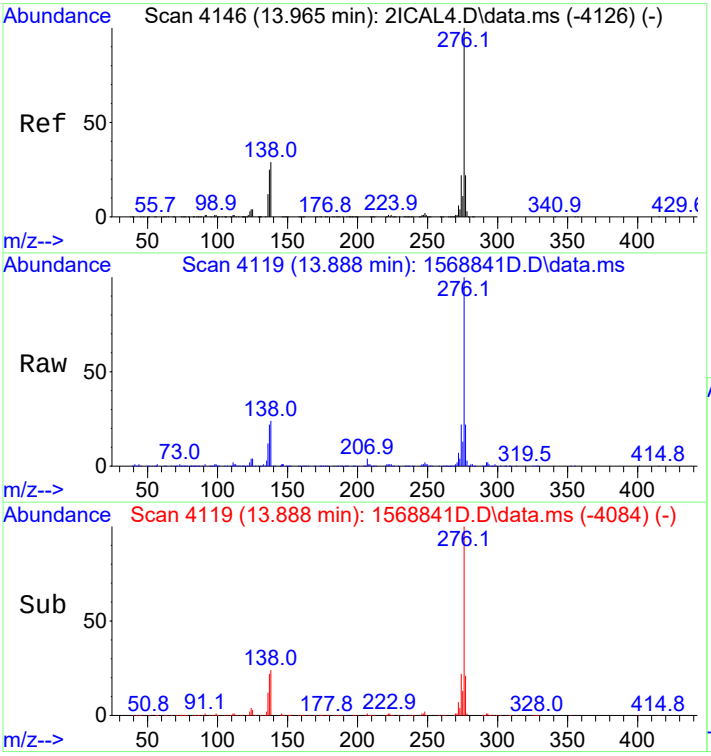



#91
Dib[ah]anthr
Concen: 2.06 ug/mL
RT: 13.592 min Scan# 4015
Delta R.T. -0.006 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:278 Resp: 44877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 21.2 | 0.0 | 50.9 |
| 279 | 27.3 | 0.0 | 54.4 |

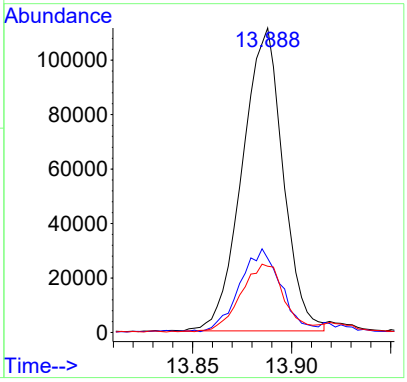



#92
B[ghi]perylen
Concen: 7.62 ug/mL
RT: 13.888 min Scan# 4119
Delta R.T. 0.000 min
Lab File: 1568841D.D
Acq: 11 Apr 2025 18:23

Tgt Ion:276 Resp: 159090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.0 | 0.0 | 59.0 |
| 277 | 21.5 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568834D.D Vial: 21
Acq On : 11 Apr 2025 18:46 Operator: JJY
Sample : 290730,1568834,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:18 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

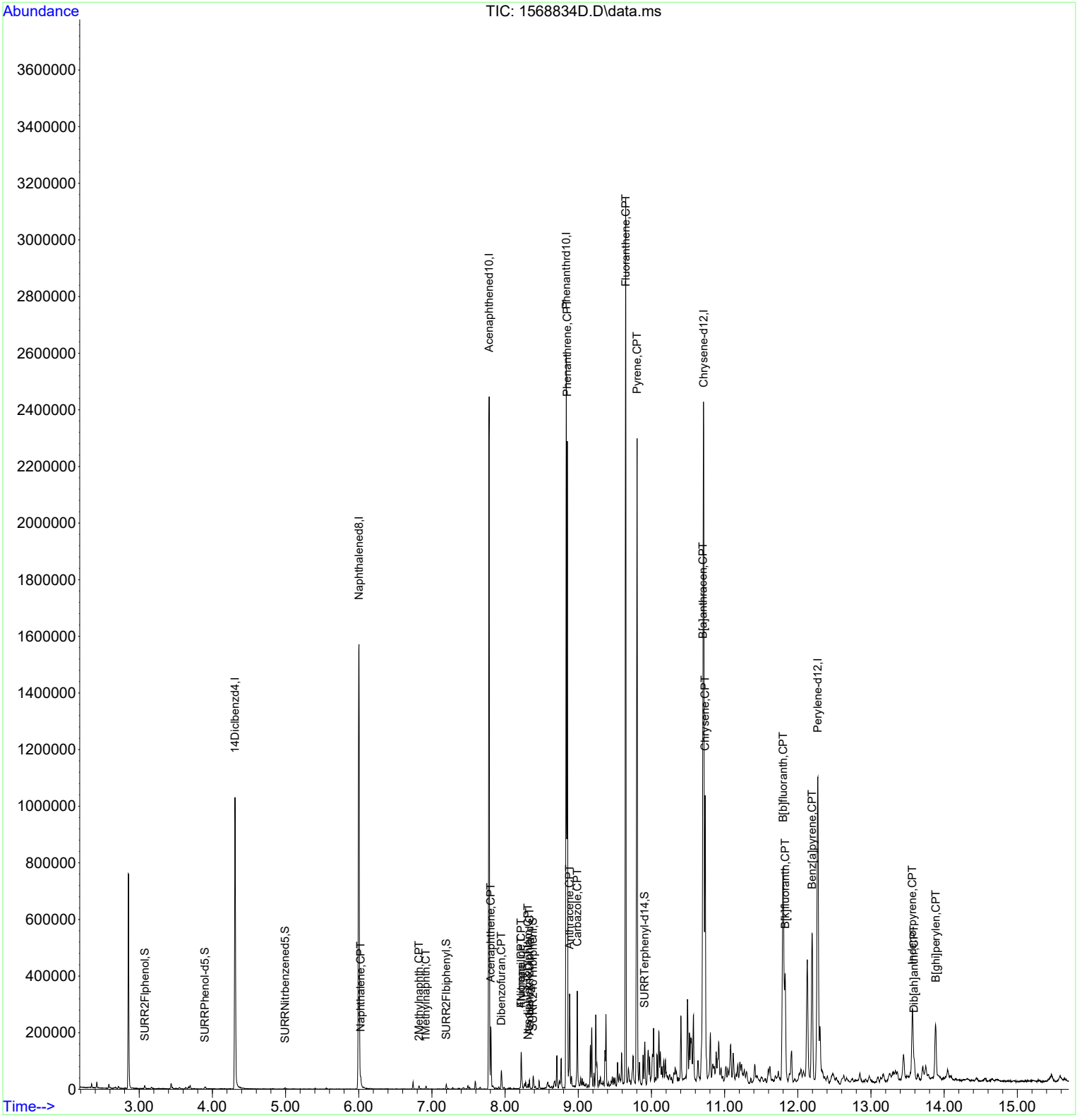
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 158978 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.003 | 136 | 768100 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 429509 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 631197 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 562185 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.274 | 264 | 521663 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.076 | 112 | 2438 | 0.64 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 0.64% | | | |
| 7) SURRPhenol-d5 | 3.897 | 99 | 3109 | 0.68 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 0.68% | | | |
| 22) SURRNitrbenzened5 | 4.994 | 82 | 1252 | 0.60 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 0.60% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 4920 | 0.96 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 0.96% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 1370 | 1.19 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.19% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 6824 | 1.24 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.24% | | | |
| Target Compounds | | | | | | Qvalue |
| 31) Naphthalene | 6.026 | 128 | 10922 | 0.3083 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.821 | 142 | 3601 | 0.1682 | ug/mL | 70 |
| 38) 1Methylnaphth | 6.918 | 142 | 2978 | 0.1345 | ug/mL | 91 |
| 50) Acenaphthene | 7.804 | 154 | 37863 | 1.8328 | ug/mL | 99 |
| 53) Dibenzofuran | 7.949 | 168 | 23058 | 0.7729 | ug/mL | 87 |
| 58) Fluorene | 8.219 | 166 | 29535 | 1.2950 | ug/mL | 98 |
| 61) 4Nitroaniline | 8.219 | 138 | 212 | 0.3606 | ug/mL# | 25 |
| 65) Ntrsdiphlam&Diphlam | 8.313 | 169 | 701 | 0.0431 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 5870 | 1.0115 | ug/mL# | 1 |
| 70) Phenanthrene | 8.850 | 178 | 534407 | 17.3782 | ug/mL | 99 |
| 71) Anthracene | 8.881 | 178 | 98364 | 3.1439 | ug/mL | 97 |
| 72) Carbazole | 8.986 | 167 | 93451 | 3.5077 | ug/mL | 99 |
| 74) Fluoranthene | 9.649 | 202 | 876764 | 27.0004 | ug/mL | 98 |
| 77) Pyrene | 9.805 | 202 | 686576 | 19.2270 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.748 | 252 | 1503 | Below Cal | # | 1 |
| 82) B[a]anthracen | 10.703 | 228 | 344245 | 10.1707 | ug/mL | 98 |
| 83) Chrysene | 10.734 | 228 | 335386 | 10.5656 | ug/mL | 98 |
| 87) B[b]fluoranth | 11.800 | 252 | 439852 | 15.9174 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.828 | 252 | 132120 | 4.7720 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.194 | 252 | 253606 | 9.9794 | ug/mL | 96 |
| 90) Indeno-pyrene | 13.564 | 276 | 132504 | 4.7142 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.587 | 278 | 28381 | 1.2352 | ug/mL | 97 |
| 92) B[ghi]perylen | 13.885 | 276 | 103918 | 4.7189 | ug/mL | 95 |

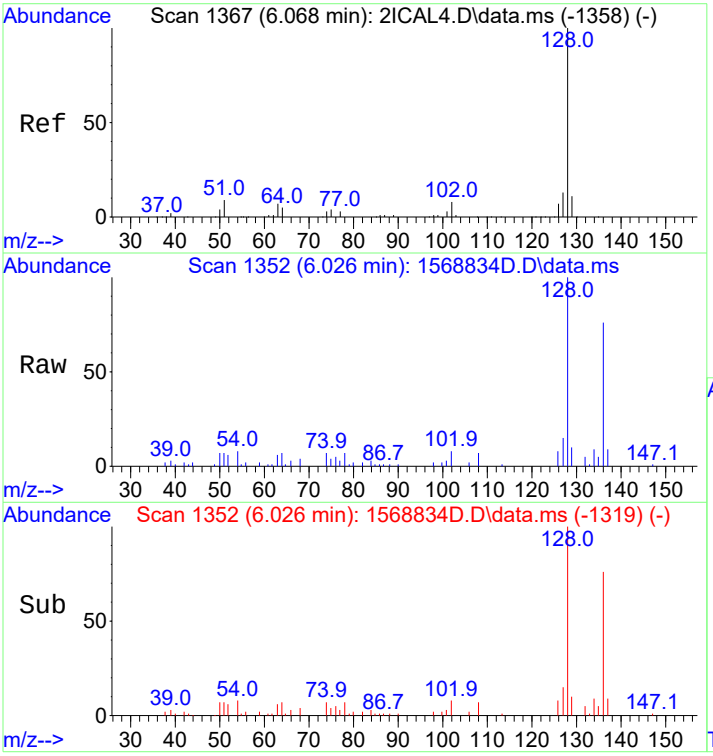
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568834D.D Vial: 21
Acq On : 11 Apr 2025 18:46 Operator: JJY
Sample : 290730,1568834,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:18 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

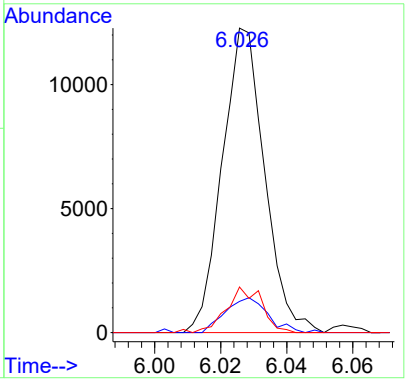


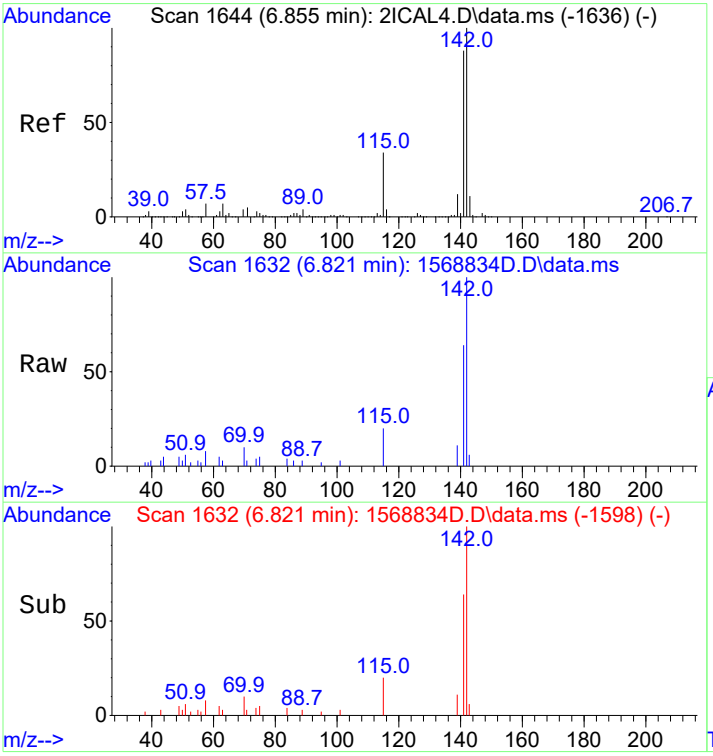



#31
Naphthalene
Concen: 0.31 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.006 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:128 Resp: 10922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.2 | 0.0 | 41.0 |
| 127 | 15.0 | 0.0 | 43.3 |

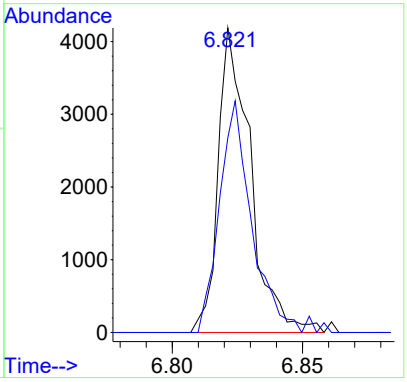


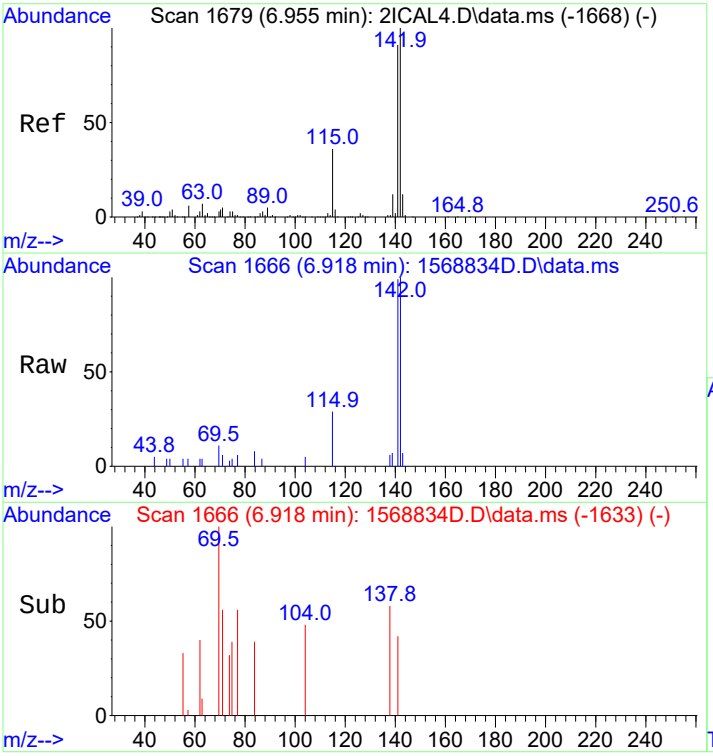




#37
2Methylnaphth
Concen: 0.17 ug/mL
RT: 6.821 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:142 Resp: 3601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 60.2 | 58.0 | 118.0 |

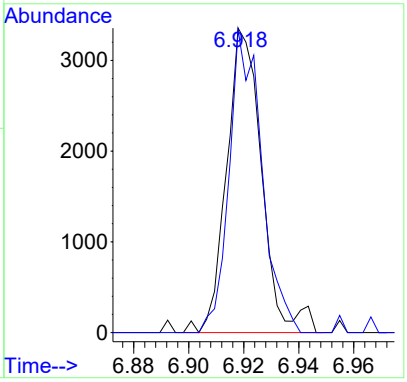


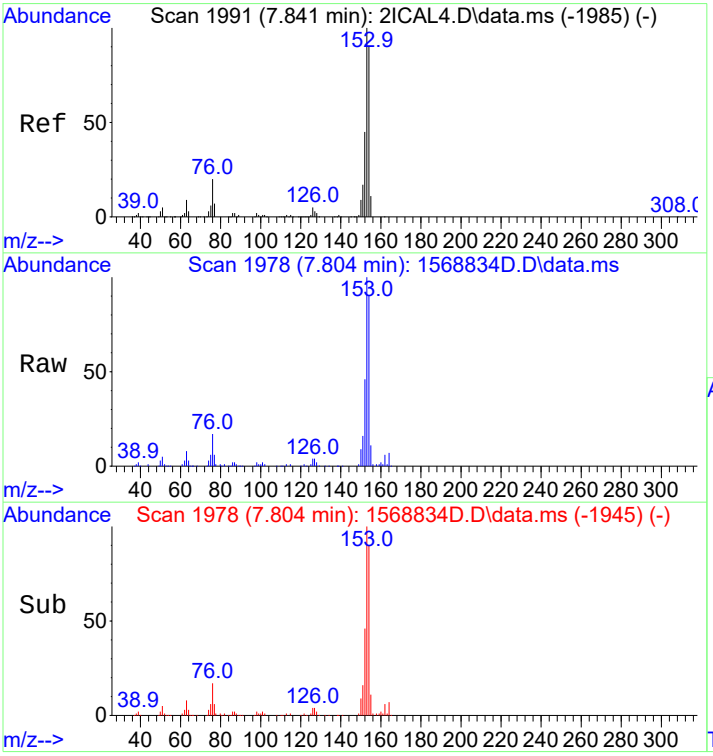



#38
1Methylnaphth
Concen: 0.13 ug/mL
RT: 6.918 min Scan# 1666
Delta R.T. -0.006 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:142 Resp: 2978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 99.4 | 60.7 | 120.7 |

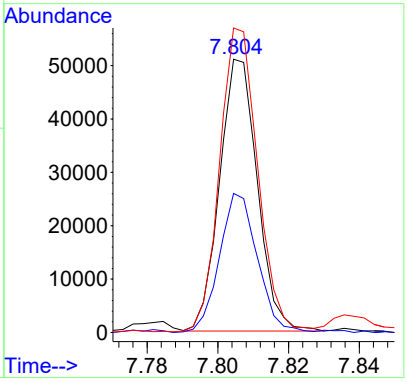


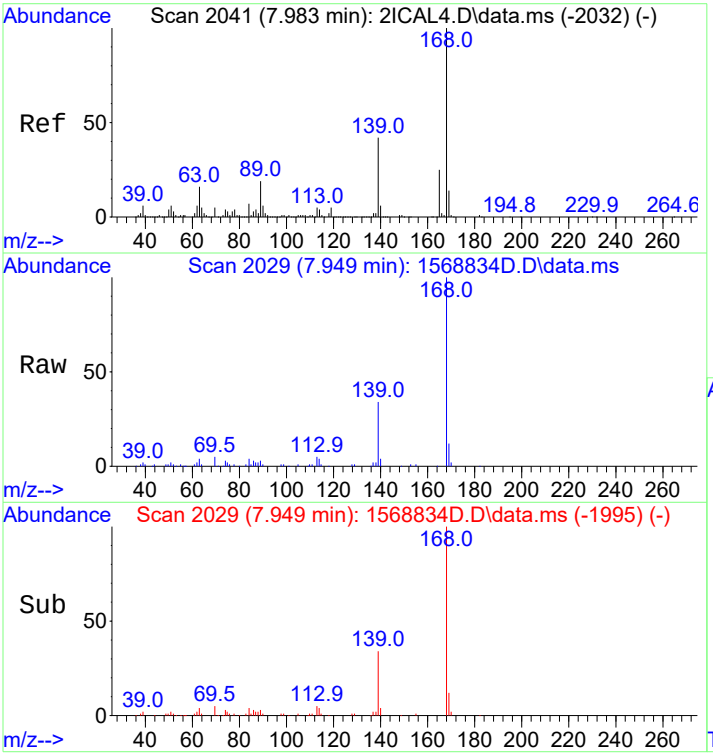




#50
Acenaphthene
Concen: 1.83 ug/mL
RT: 7.804 min Scan# 1978
Delta R.T. -0.006 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:154 Resp: 37863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 50.4 | 20.0 | 80.0 |
| 153 | 111.5 | 80.7 | 140.7 |

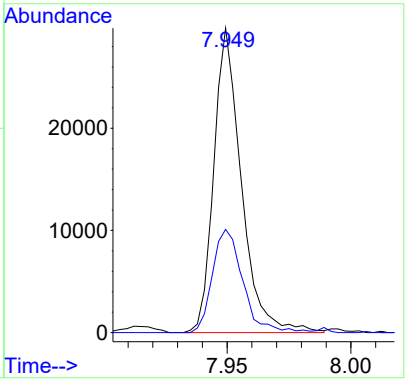


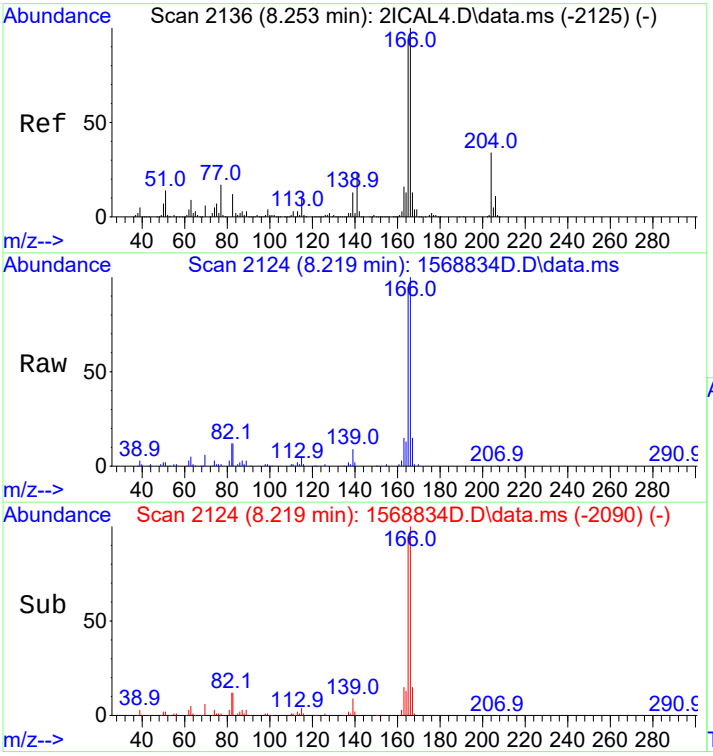



#53
Dibenzofuran
Concen: 0.77 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:168 Resp: 23058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 33.9 | 11.9 | 71.9 |

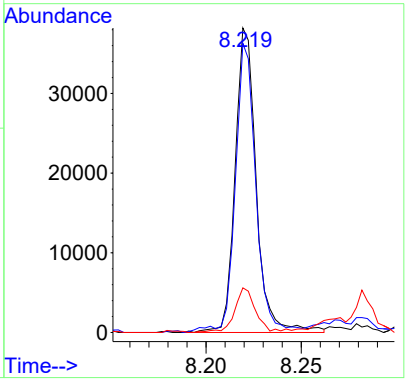


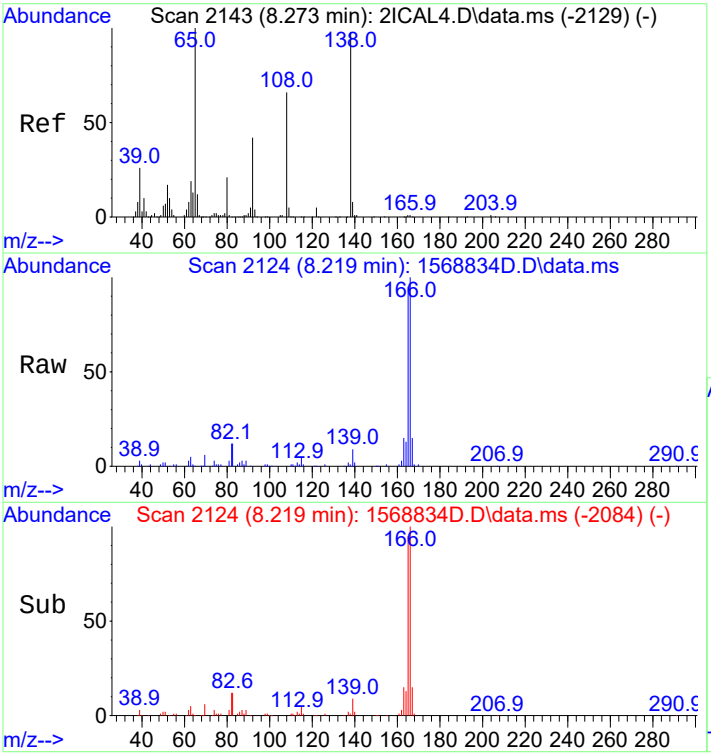




#58
Fluorene
Concen: 1.30 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:166 Resp: 29535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 95.0 | 63.6 | 123.6 |
| 167 | 14.3 | 0.0 | 43.3 |

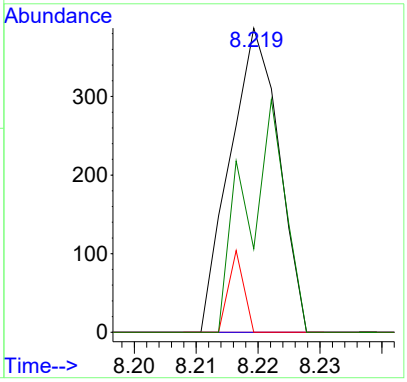


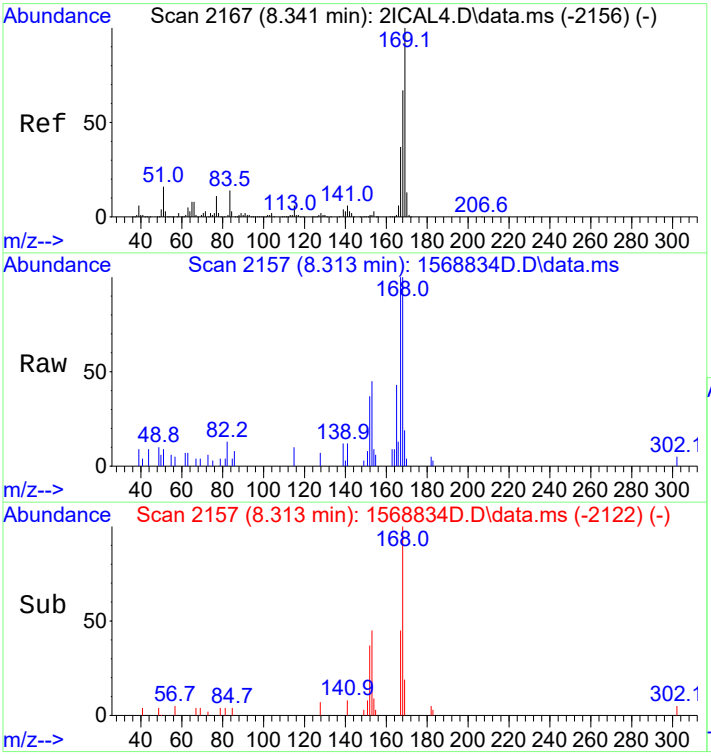



#61
4Nitroaniline
Concen: 0.36 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.026 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:138 Resp: 212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 27.4 | 71.1 | 131.1# |

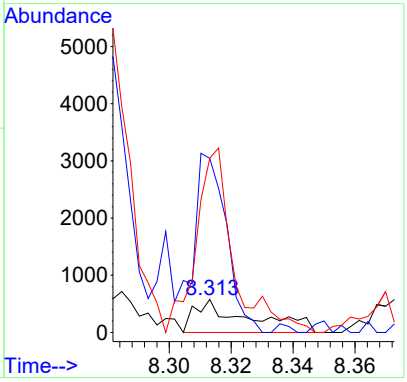


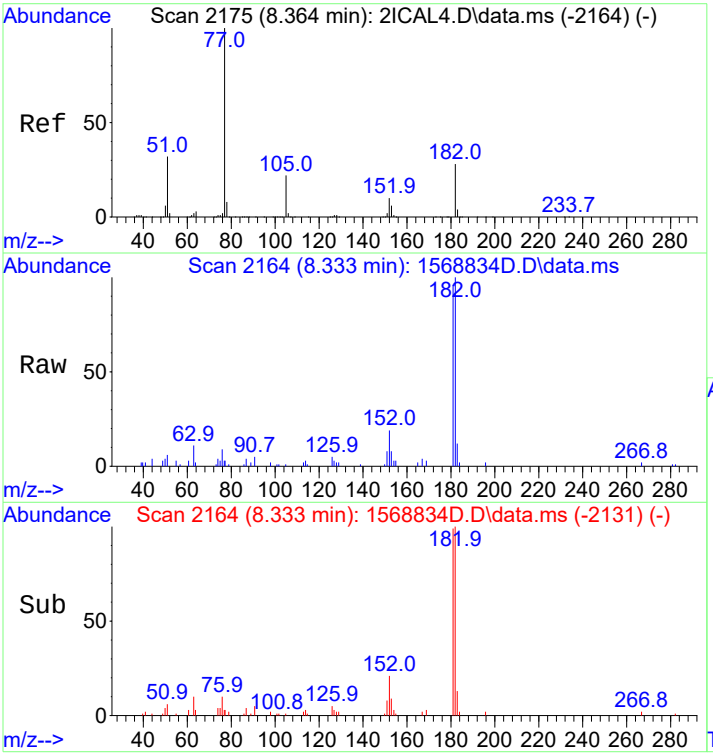




#65
Ntrsdiphlam&Diphlam
Concen: 0.04 ug/mL
RT: 8.313 min Scan# 2157
Delta R.T. 0.000 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:169 Resp: 701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 492.0 | 37.2 | 97.2# |
| 167 | 527.0 | 6.9 | 66.9# |

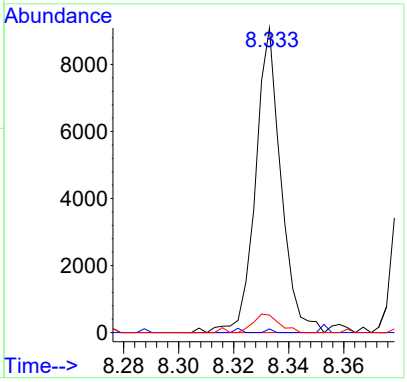


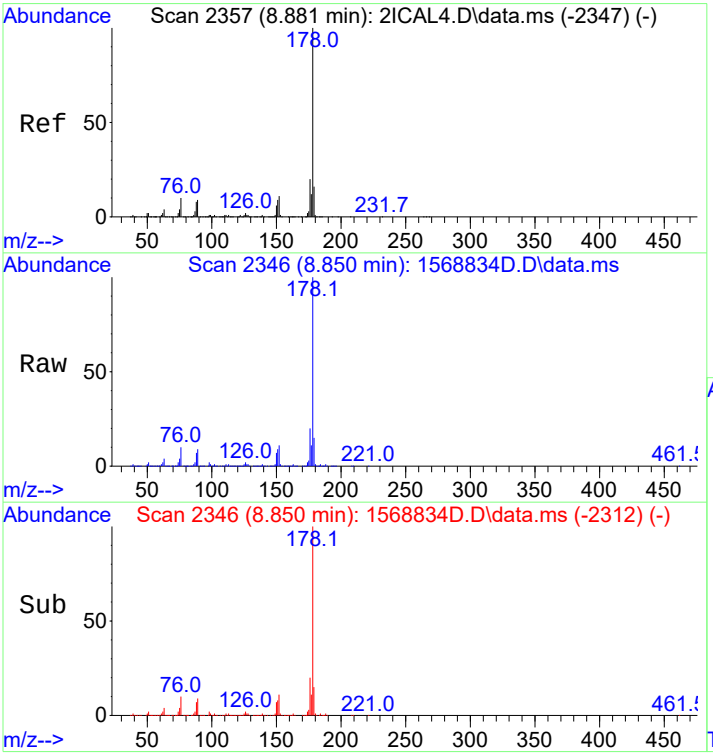



#66
Azobenz&12Diphlhyd
Concen: 1.01 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:182 Resp: 5870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 1.2 | 49.9 | 109.9# |
| 77 | 5.7 | 339.9 | 399.9# |

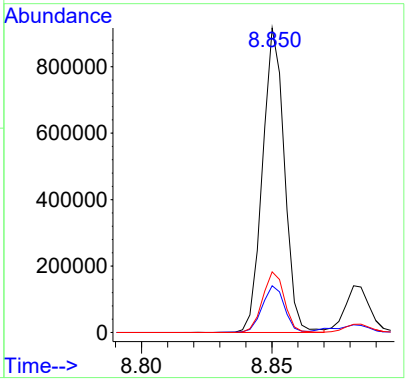


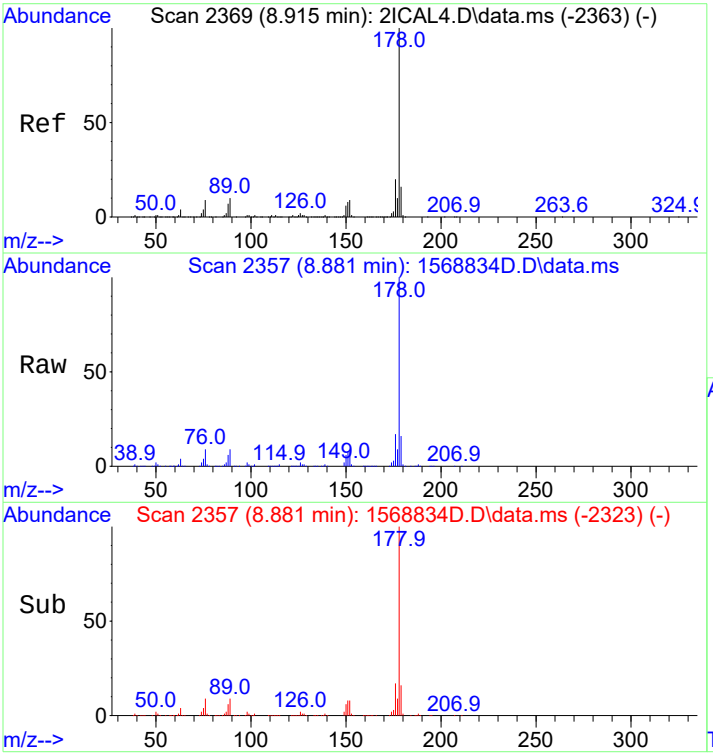




#70
Phenanthrene
Concen: 17.38 ug/mL
RT: 8.850 min Scan# 2346
Delta R.T. -0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:178 Resp: 534407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.3 | 0.0 | 45.9 |
| 176 | 19.9 | 0.0 | 50.4 |

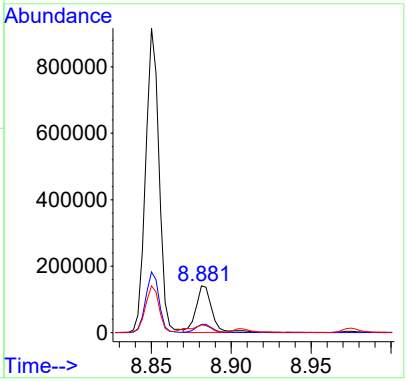


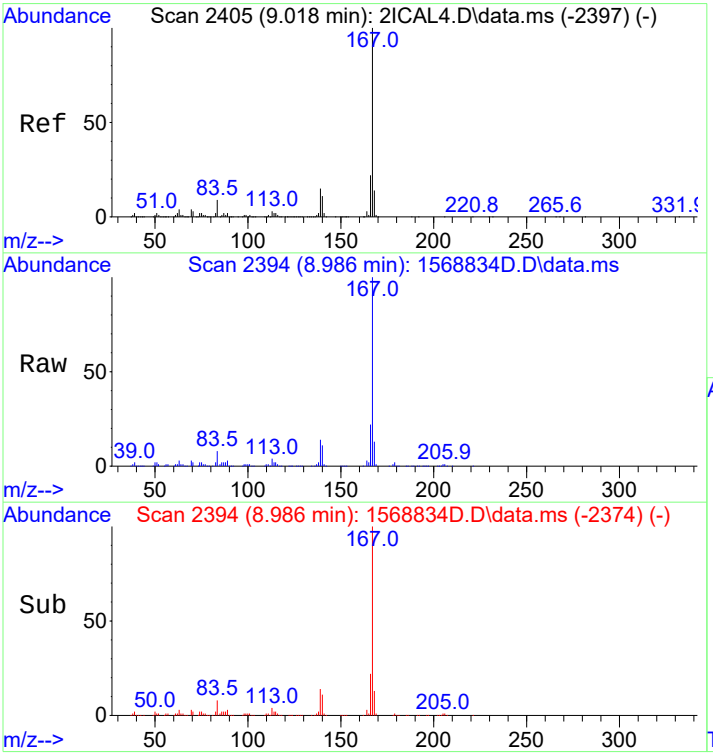



#71
Anthracene
Concen: 3.14 ug/mL
RT: 8.881 min Scan# 2357
Delta R.T. -0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:178 Resp: 98364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.3 | 0.0 | 49.5 |
| 179 | 16.4 | 0.0 | 45.9 |

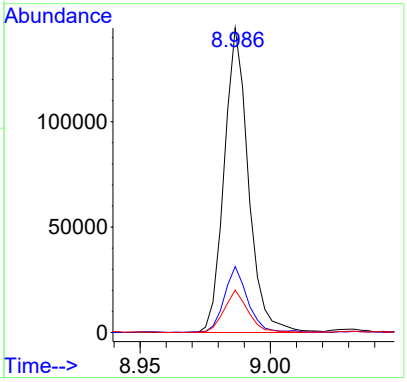


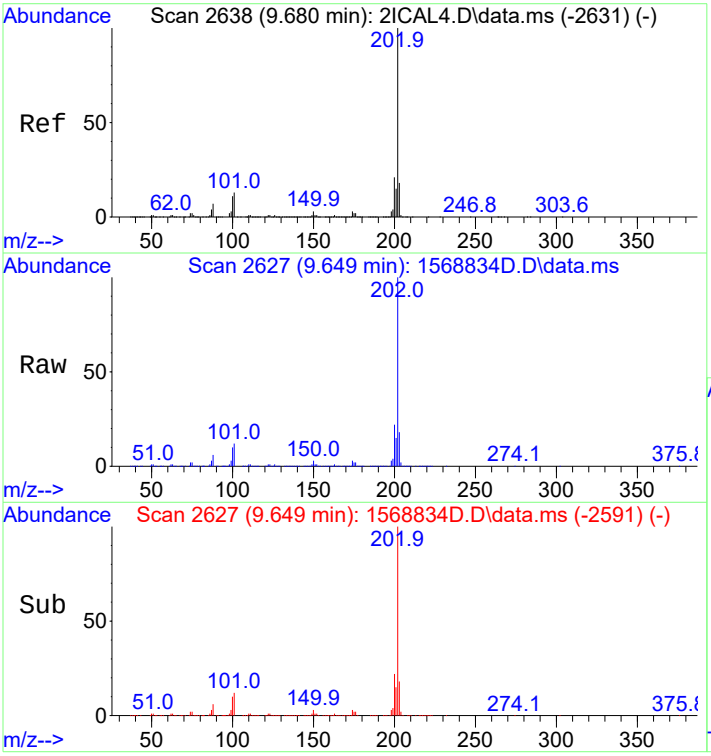




#72
Carbazole
Concen: 3.51 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:167 Resp: 93451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.6 | 0.0 | 52.1 |
| 139 | 13.9 | 0.0 | 44.7 |

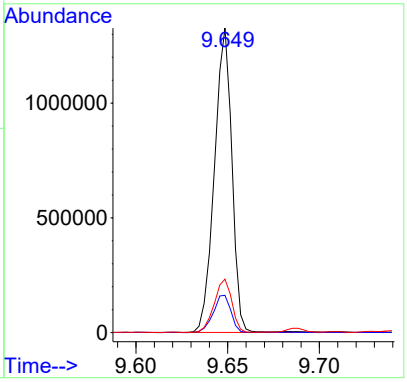


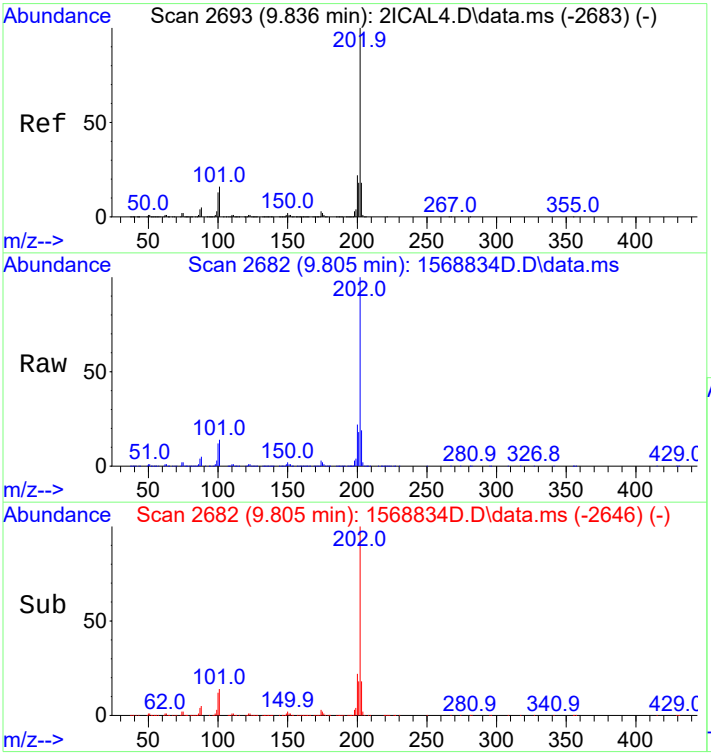



#74
Fluoranthene
Concen: 27.00 ug/mL
RT: 9.649 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:202 Resp: 876764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.2 | 0.0 | 43.0 |
| 203 | 17.5 | 0.0 | 48.2 |

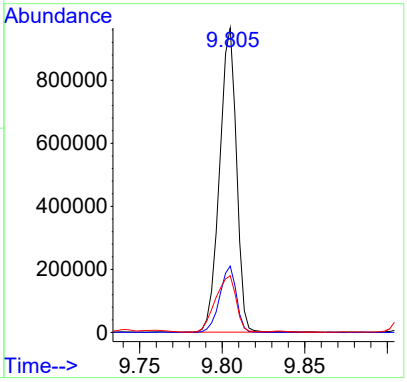


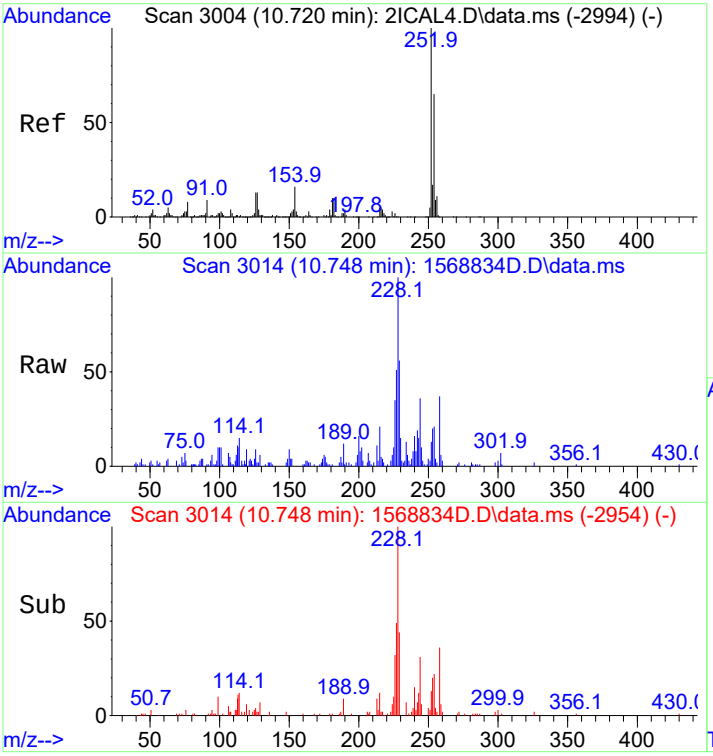




#77
Pyrene
Concen: 19.23 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:202 Resp: 686576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.8 | 0.0 | 52.2 |
| 203 | 18.7 | 0.0 | 48.2 |

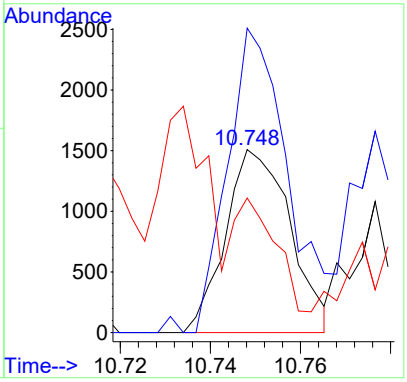


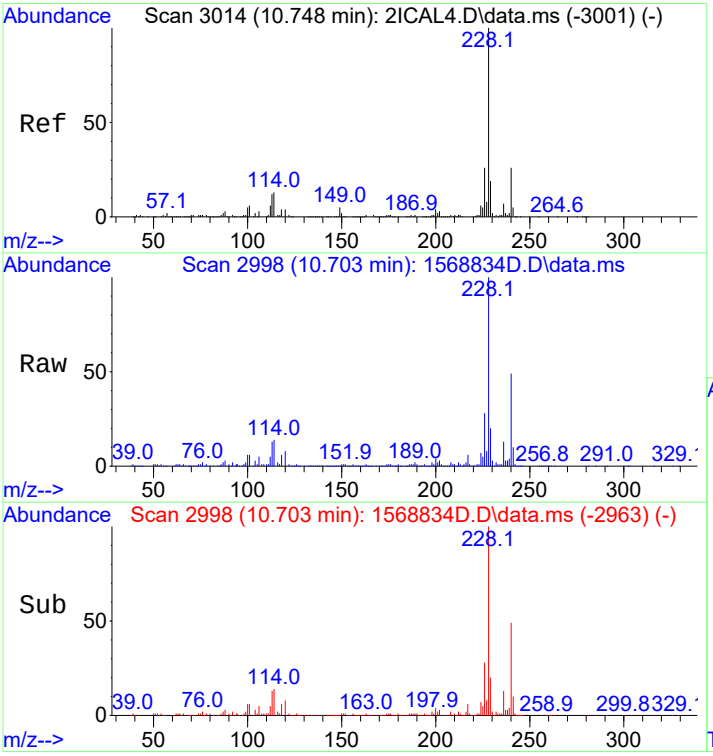



#81
33Diclbnzidin
Concen: Below Cal
RT: 10.748 min Scan# 3014
Delta R.T. 0.071 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:252 Resp: 1503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 166.3 | 34.6 | 94.6# |
| 126 | 43.1 | 0.0 | 42.6# |

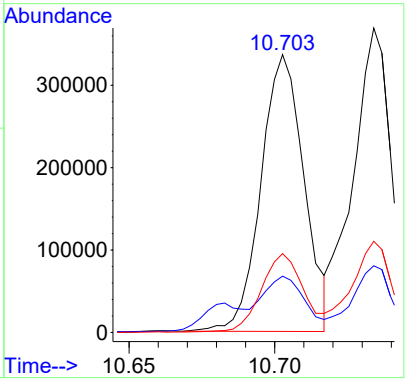


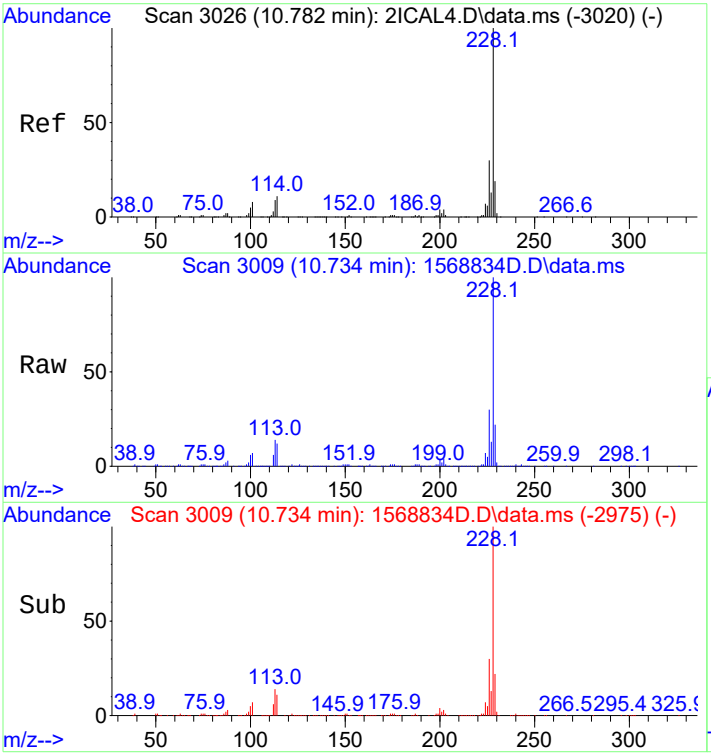




#82
B[a]anthracen
Concen: 10.17 ug/mL
RT: 10.703 min Scan# 2998
Delta R.T. 0.000 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:228 Resp: 344245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.2 | 0.0 | 49.4 |
| 226 | 28.4 | 0.0 | 56.5 |

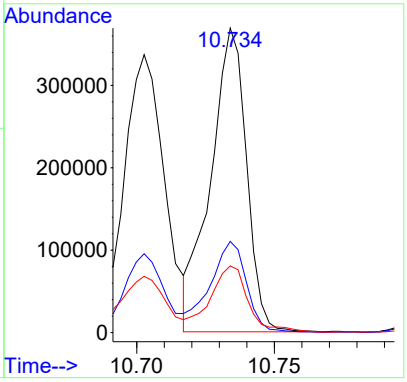


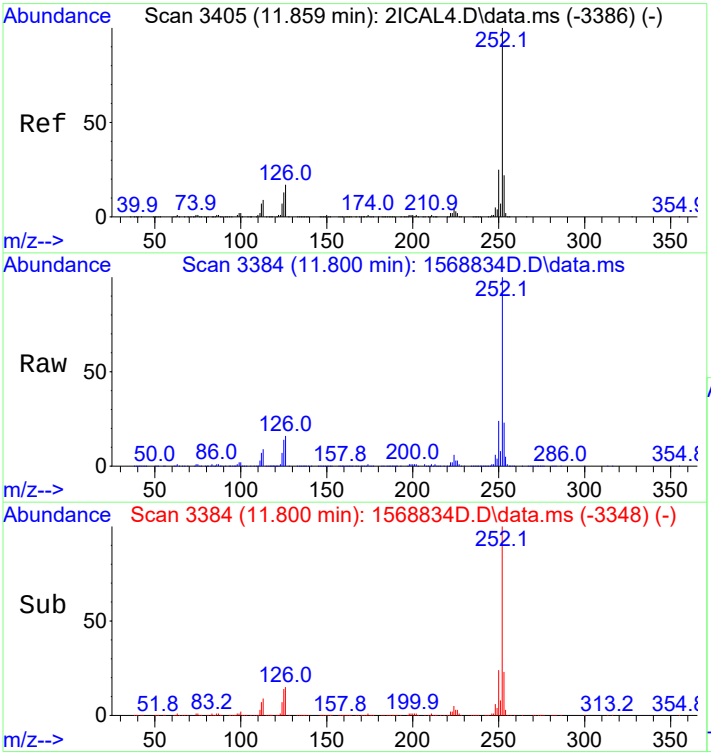



#83
Chrysene
Concen: 10.57 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:228 Resp: 335386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.9 | 0.0 | 59.9 |
| 229 | 21.8 | 0.0 | 49.5 |

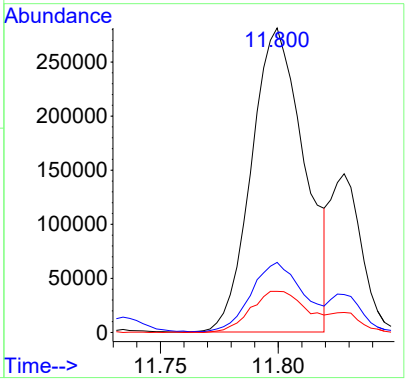


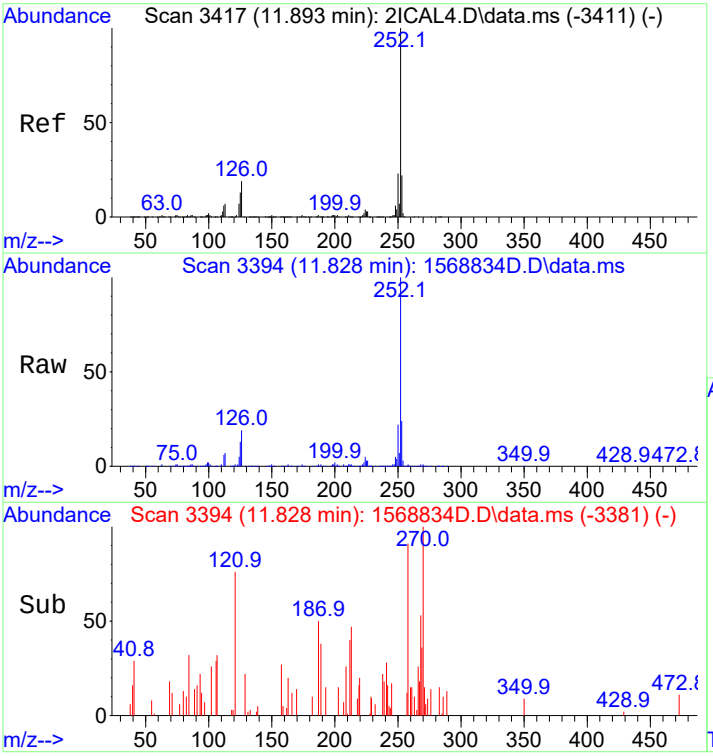




#87
B[b]fluoranth
Concen: 15.92 ug/mL
RT: 11.800 min Scan# 3384
Delta R.T. 0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:252 Resp: 439852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 0.0 | 52.3 |
| 125 | 13.5 | 0.0 | 43.2 |

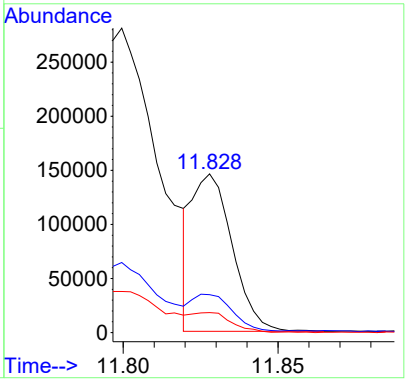


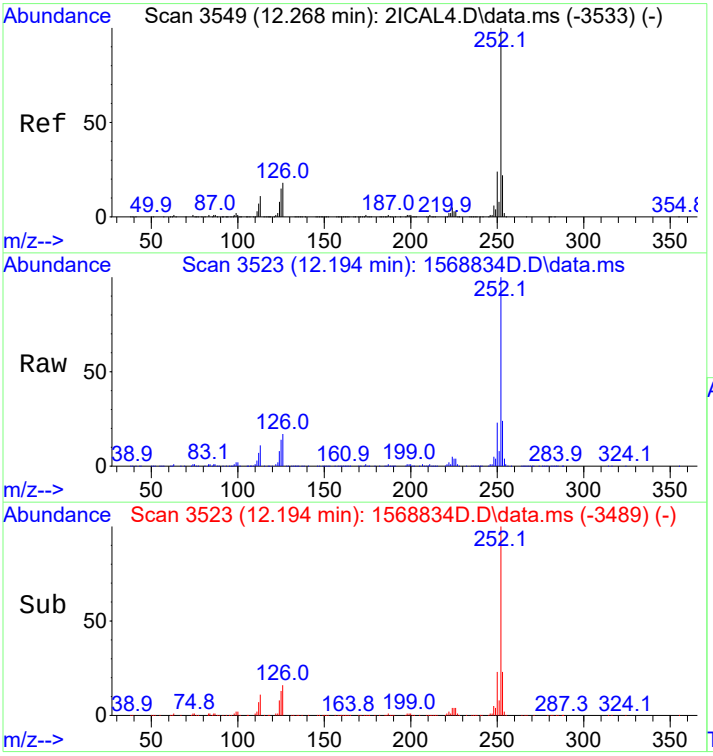



#88
B[k]fluoranth
Concen: 4.77 ug/mL
RT: 11.828 min Scan# 3394
Delta R.T. -0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:252 Resp: 132120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 0.0 | 52.0 |
| 125 | 12.4 | 0.0 | 43.3 |

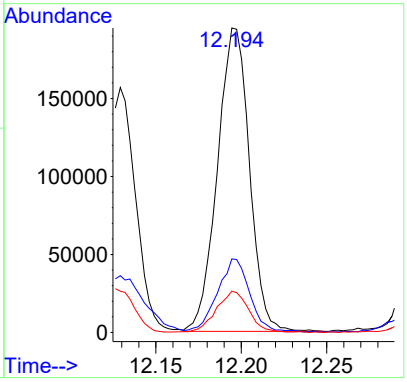


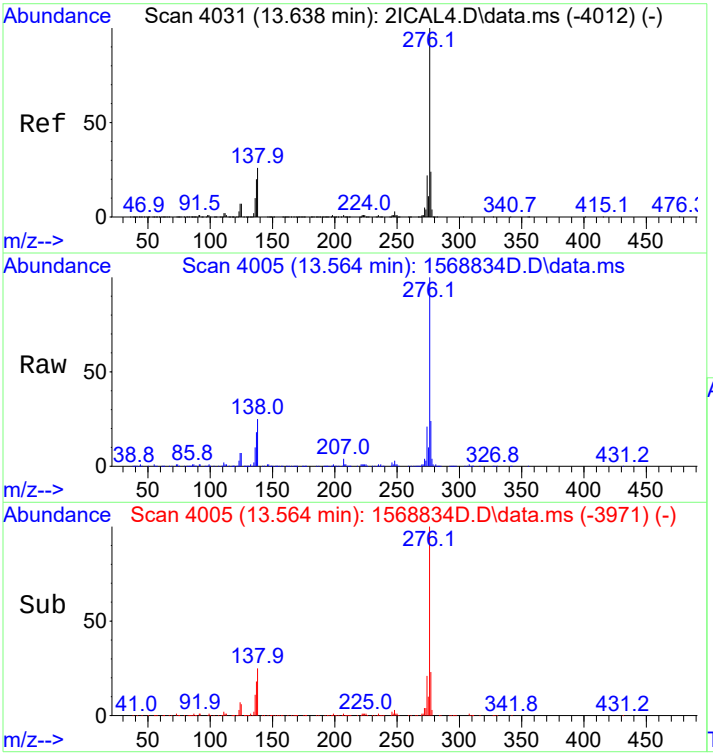




#89
Benz[a]pyrene
Concen: 9.98 ug/mL
RT: 12.194 min Scan# 3523
Delta R.T. -0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:252 Resp: 253606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 24.1 | 0.0 | 52.3 |
| 125 | 13.6 | 0.0 | 45.1 |

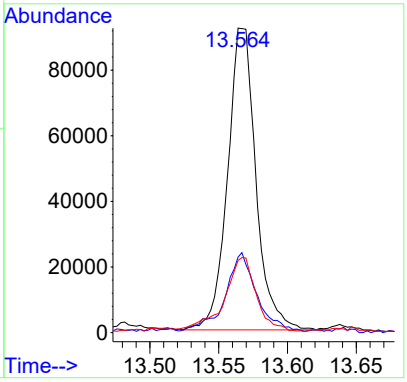


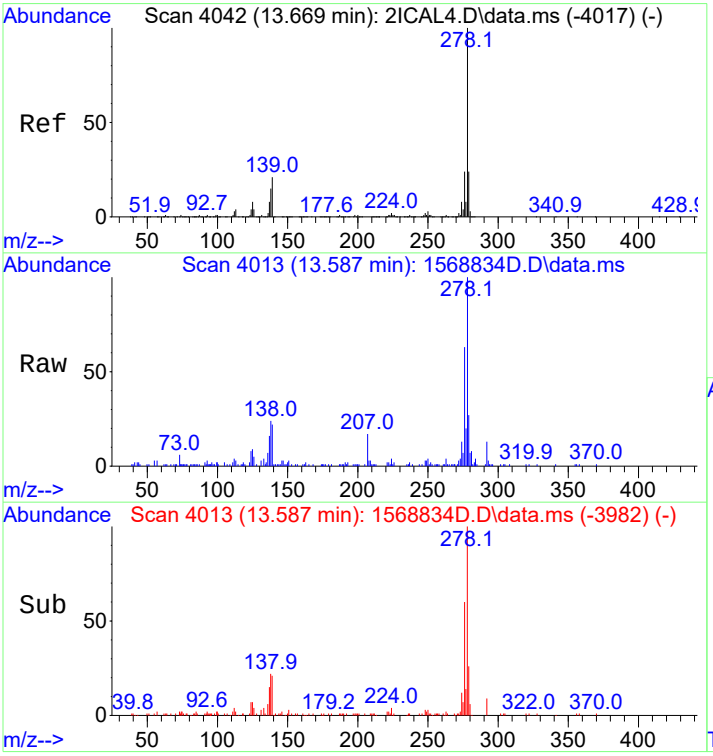



#90
Indeno-pyrene
Concen: 4.71 ug/mL
RT: 13.564 min Scan# 4005
Delta R.T. -0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:276 Resp: 132504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.6 | 0.0 | 55.5 |
| 277 | 22.7 | 0.0 | 54.0 |

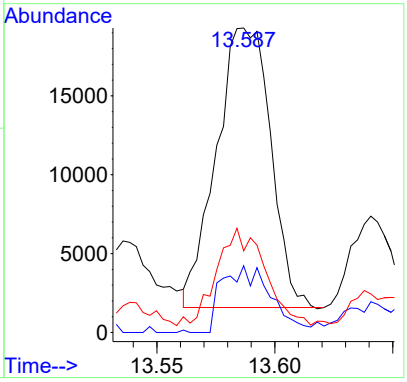


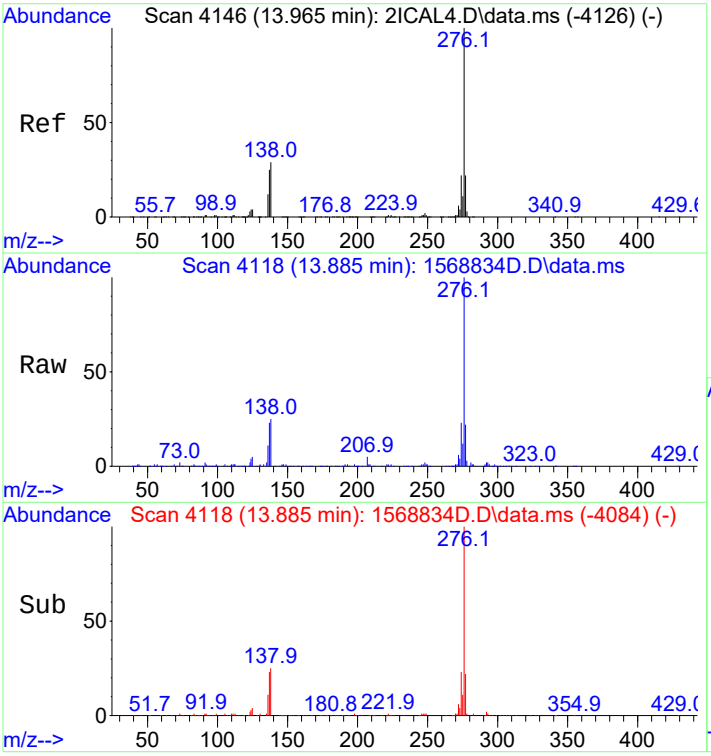




#91
Dib[ah]anthr
Concen: 1.24 ug/mL
RT: 13.587 min Scan# 4013
Delta R.T. -0.011 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:278 Resp: 28381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 23.0 | 0.0 | 50.9 |
| 279 | 25.3 | 0.0 | 54.4 |

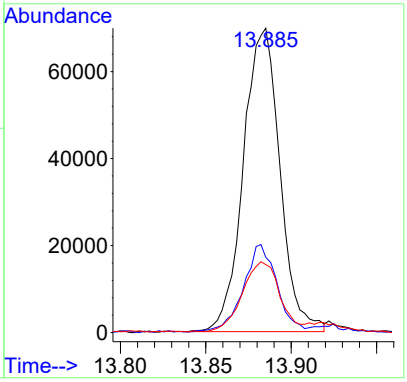





#92
B[ghi]perylen
Concen: 4.72 ug/mL
RT: 13.885 min Scan# 4118
Delta R.T. -0.003 min
Lab File: 1568834D.D
Acq: 11 Apr 2025 18:46

Tgt Ion:276 Resp: 103918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.6 | 0.0 | 59.0 |
| 277 | 22.0 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568832D.D Vial: 22
Acq On : 11 Apr 2025 19:09 Operator: JJY
Sample : 290730,1568832,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:16 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

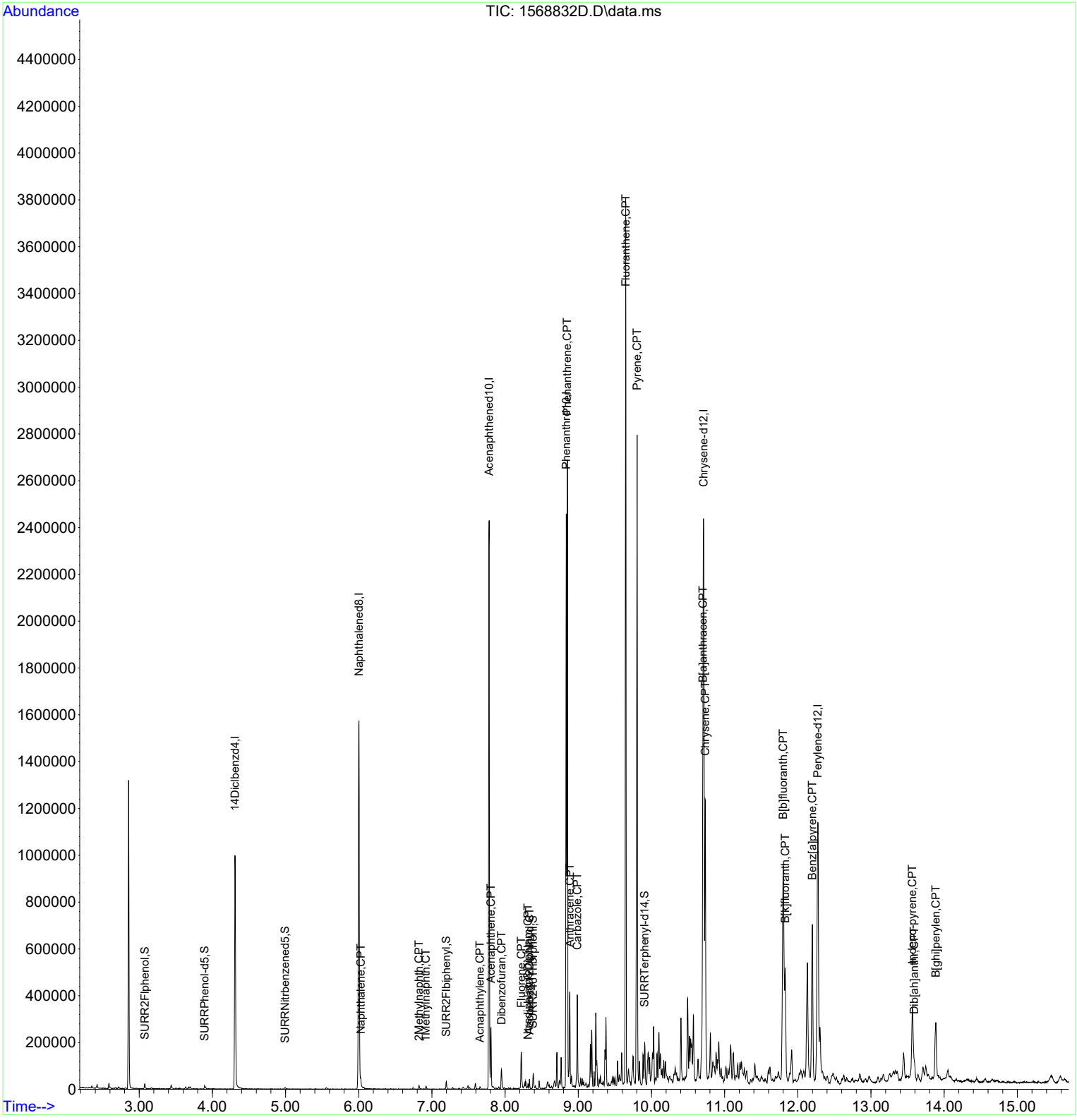
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 154397 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.003 | 136 | 758542 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 427651 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 632981 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 563309 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.274 | 264 | 532642 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.076 | 112 | 4952 | 1.33 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.33% | | | |
| 7) SURRPhenol-d5 | 3.895 | 99 | 6157 | 1.38 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.38% | | | |
| 22) SURRNitrbenzened5 | 4.994 | 82 | 2642 | 1.28 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.28% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 8838 | 1.73 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.73% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 1896 | 1.66 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.66% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 11106 | 2.02 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.02% | | | |
| Target Compounds | | | | | | Qvalue |
| 31) Naphthalene | 6.028 | 128 | 12267 | 0.3507 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.824 | 142 | 4185 | 0.1979 | ug/mL | 90 |
| 38) 1Methylnaphth | 6.918 | 142 | 3530 | 0.1614 | ug/mL | 91 |
| 47) Acnaphthylene | 7.657 | 152 | 3064 | 0.0885 | ug/mL | 94 |
| 50) Acenaphthene | 7.807 | 154 | 44876 | 2.1817 | ug/mL | 99 |
| 53) Dibenzofuran | 7.949 | 168 | 29540 | 0.9945 | ug/mL | 91 |
| 58) Fluorene | 8.222 | 166 | 35908 | 1.5813 | ug/mL | 96 |
| 65) Ntrsdiphlam&Diphlam | 8.313 | 169 | 631 | 0.0387 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 6981 | 1.1996 | ug/mL# | 1 |
| 70) Phenanthrene | 8.850 | 178 | 644823 | 20.9097 | ug/mL | 99 |
| 71) Anthracene | 8.884 | 178 | 118117 | 3.7646 | ug/mL | 97 |
| 72) Carbazole | 8.986 | 167 | 110930 | 4.1520 | ug/mL | 98 |
| 74) Fluoranthene | 9.648 | 202 | 1032887 | 31.7186 | ug/mL | 99 |
| 77) Pyrene | 9.805 | 202 | 805660 | 22.5168 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.751 | 252 | 1656 | Below Cal | # | 2 |
| 82) B[a]anthracen | 10.703 | 228 | 415029 | 12.2375 | ug/mL | 99 |
| 83) Chrysene | 10.737 | 228 | 412773 | 12.9776 | ug/mL | 98 |
| 87) B[b]fluoranth | 11.799 | 252 | 517906 | 18.3557 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.828 | 252 | 173980 | 6.1544 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.200 | 252 | 310590 | 11.9698 | ug/mL | 97 |
| 90) Indeno-pyrene | 13.564 | 276 | 168885 | 5.8847 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.590 | 278 | 35823 | 1.5270 | ug/mL | 97 |
| 92) B[ghi]perylen | 13.885 | 276 | 133872 | 5.9538 | ug/mL | 95 |

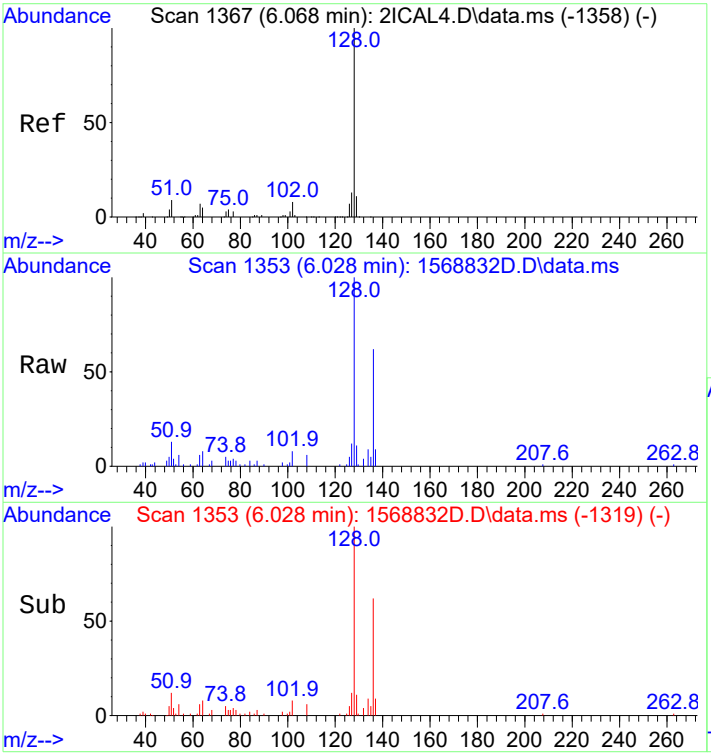
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568832D.D Vial: 22
Acq On : 11 Apr 2025 19:09 Operator: JJY
Sample : 290730,1568832,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:16 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

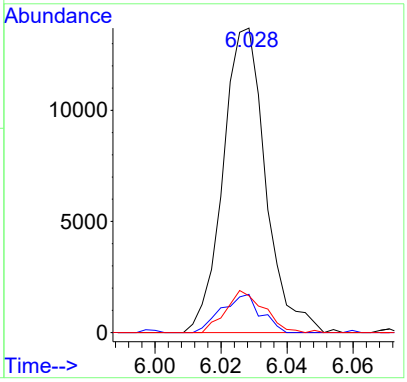


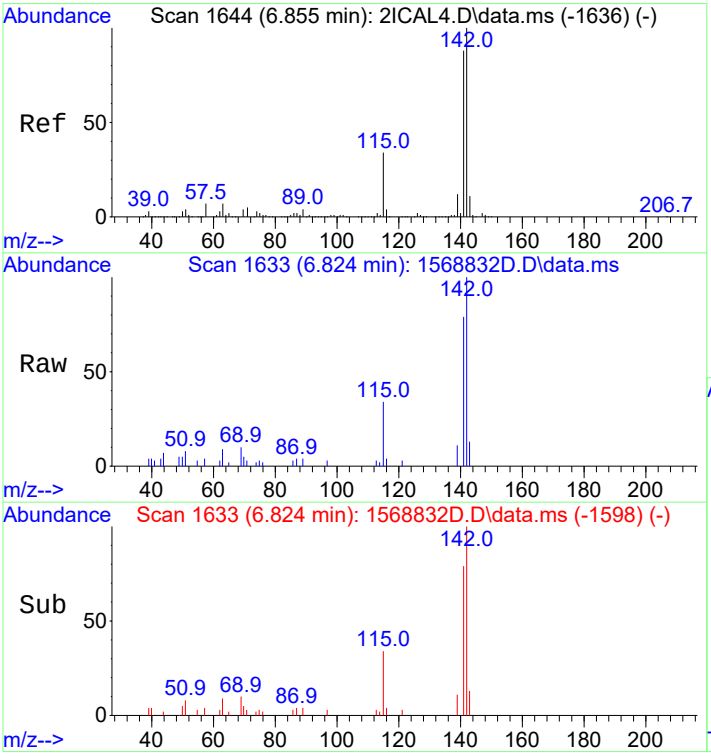



#31
Naphthalene
Concen: 0.35 ug/mL
RT: 6.028 min Scan# 1353
Delta R.T. -0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:128 Resp: 12267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.5 | 0.0 | 41.0 |
| 127 | 12.1 | 0.0 | 43.3 |

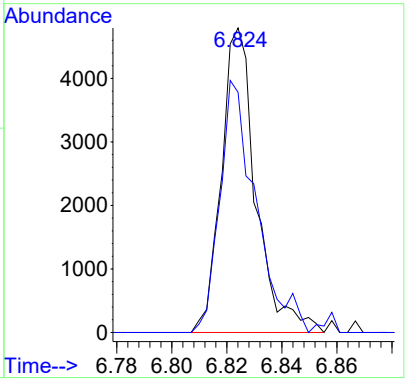


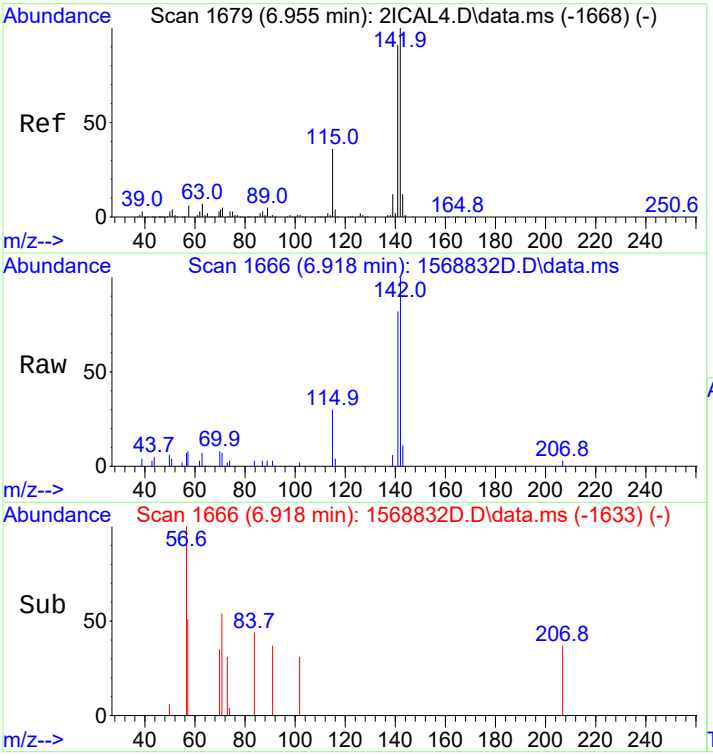




#37
2Methylnaphth
Concen: 0.20 ug/mL
RT: 6.824 min Scan# 1633
Delta R.T. -0.000 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:142 Resp: 4185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 78.9 | 58.0 | 118.0 |

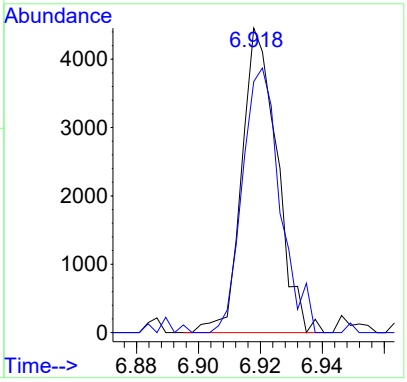


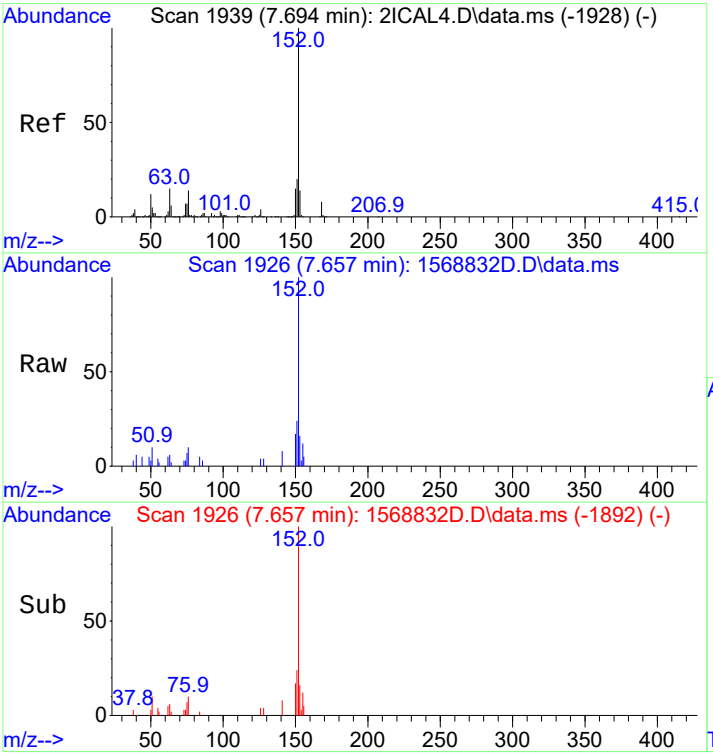



#38
1Methylnaphth
Concen: 0.16 ug/mL
RT: 6.918 min Scan# 1666
Delta R.T. -0.006 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:142 Resp: 3530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 82.5 | 60.7 | 120.7 |

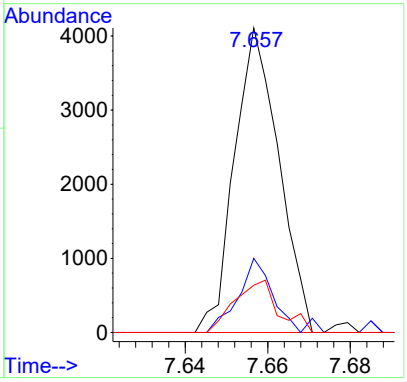


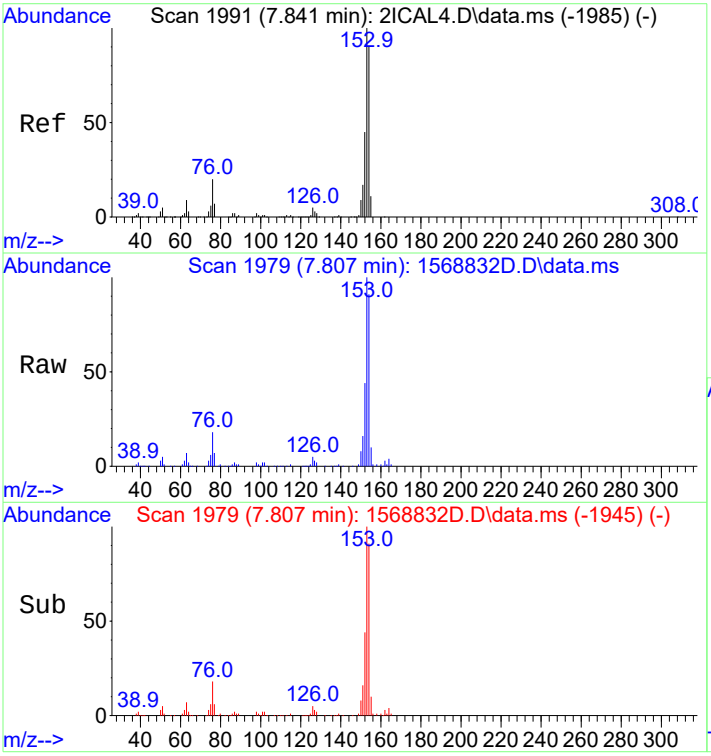




#47
Acnaphthylene
Concen: 0.09 ug/mL
RT: 7.657 min Scan# 1926
Delta R.T. -0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:152 Resp: 3064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 24.3 | 0.0 | 50.3 |
| 153 | 15.5 | 0.0 | 44.4 |

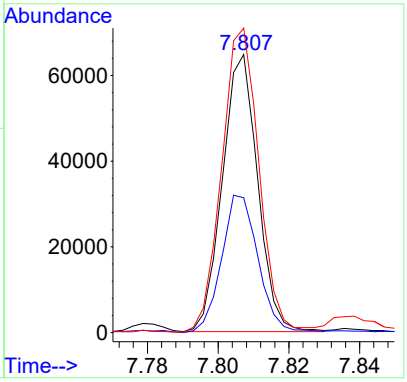


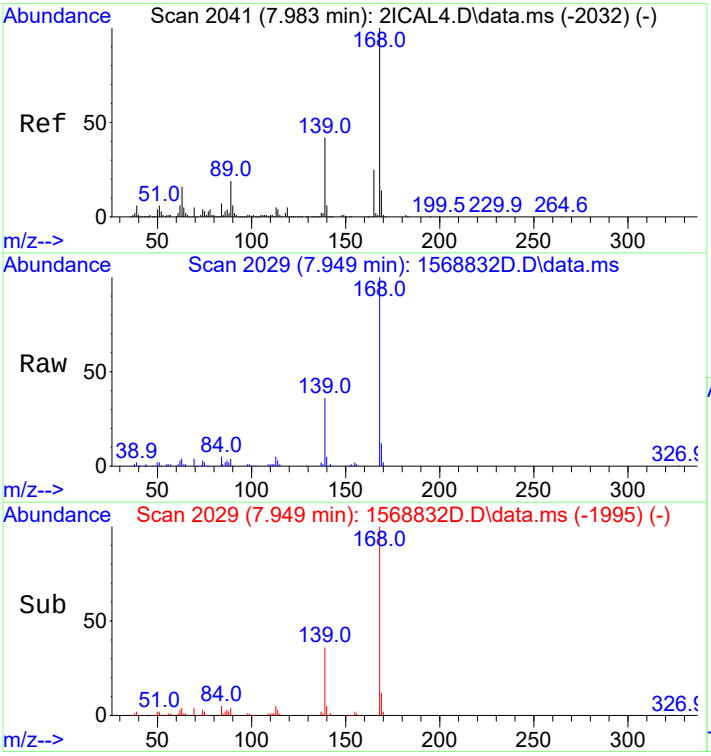



#50
Acenaphthene
Concen: 2.18 ug/mL
RT: 7.807 min Scan# 1979
Delta R.T. -0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:154 Resp: 44876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 48.7 | 20.0 | 80.0 |
| 153 | 109.7 | 80.7 | 140.7 |

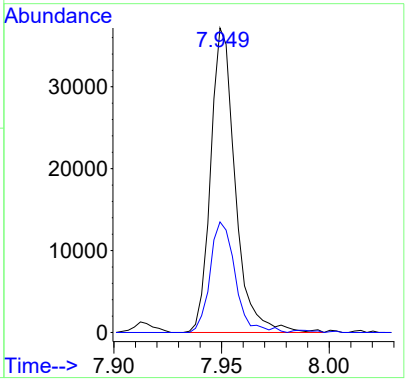


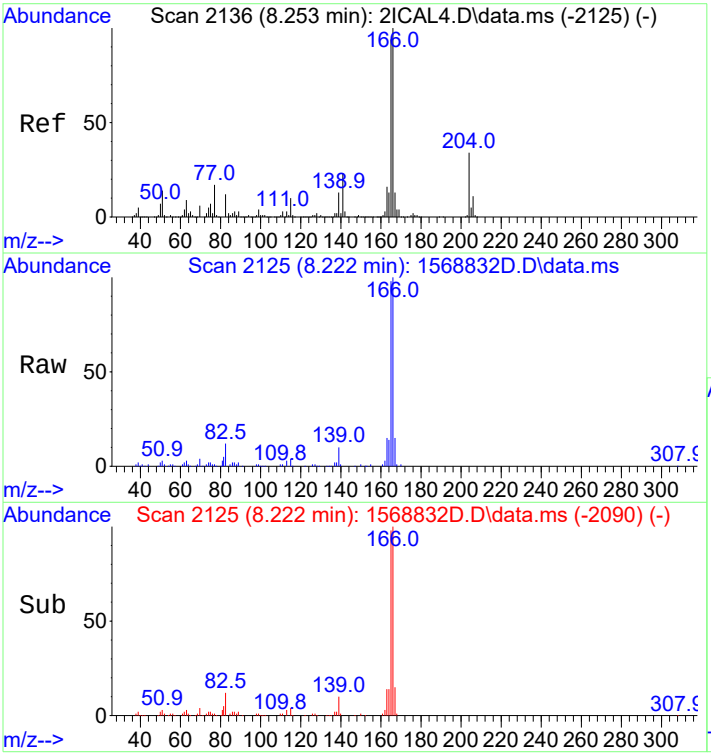




#53
Dibenzofuran
Concen: 0.99 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:168 Resp: 29540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 36.3 | 11.9 | 71.9 |

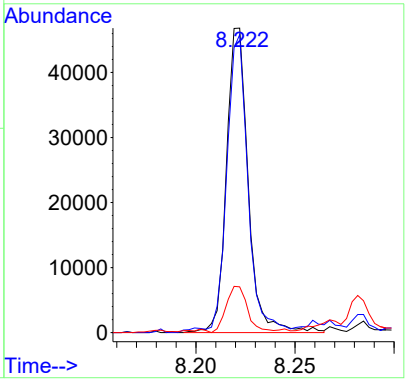


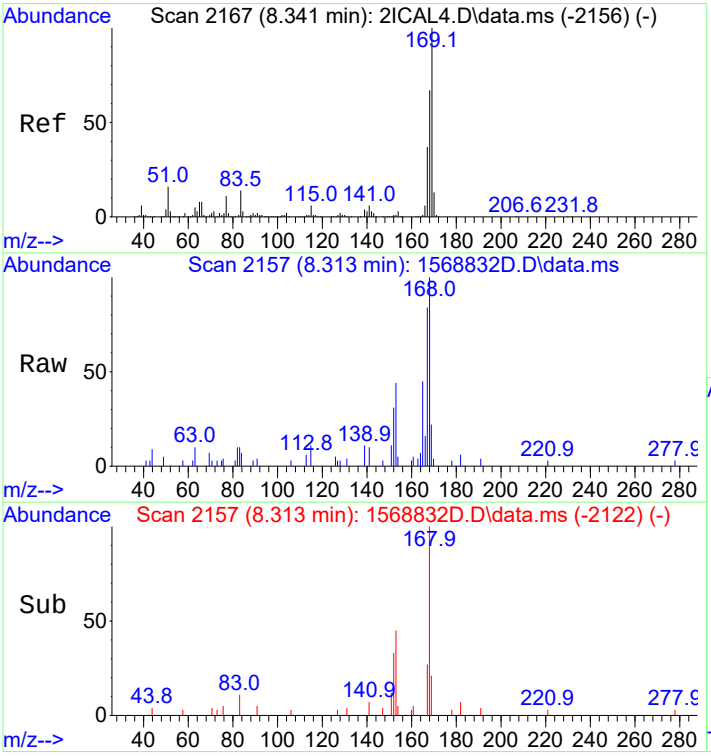



#58
Fluorene
Concen: 1.58 ug/mL
RT: 8.222 min Scan# 2125
Delta R.T. -0.000 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:166 Resp: 35908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.6 | 63.6 | 123.6 |
| 167 | 14.5 | 0.0 | 43.3 |

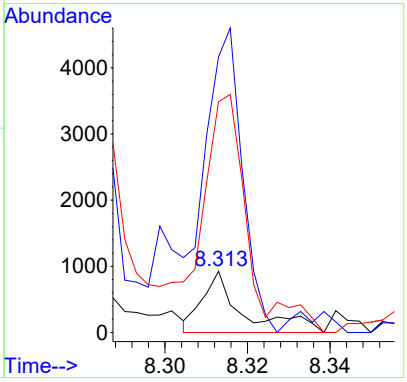


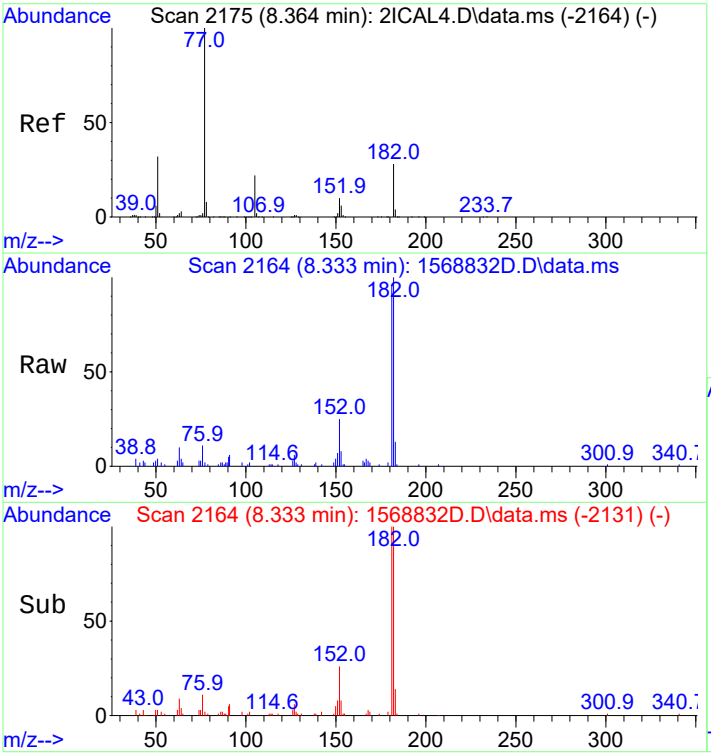




#65
Ntrsdiphlam&Diphlam
Concen: 0.04 ug/mL
RT: 8.313 min Scan# 2157
Delta R.T. -0.000 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:169 Resp: 631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 441.6 | 37.2 | 97.2# |
| 167 | 303.0 | 6.9 | 66.9# |

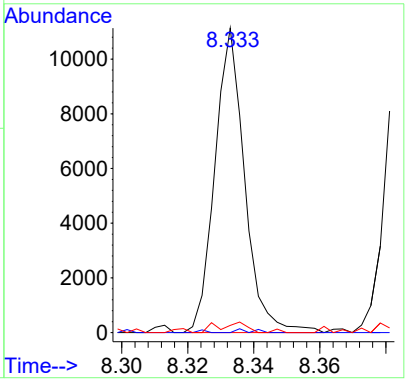


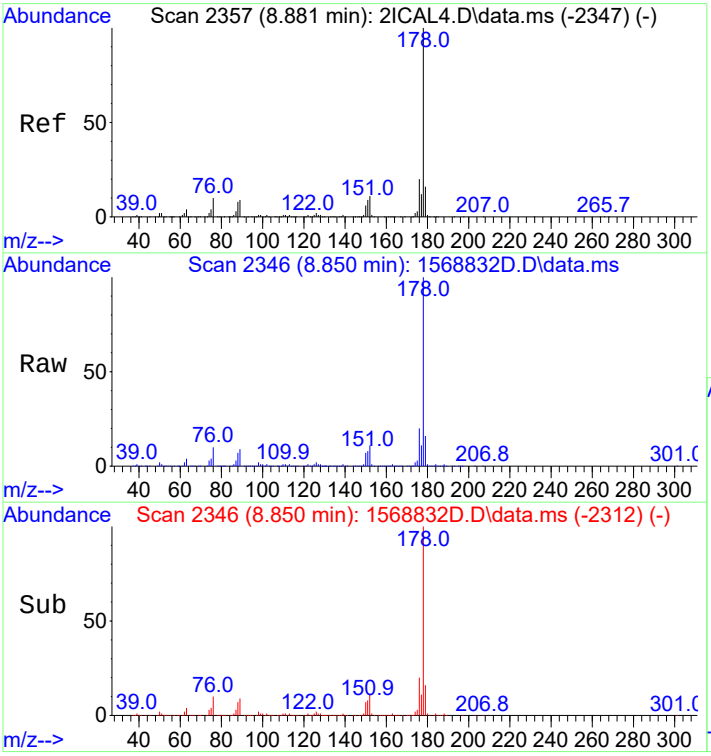



#66
Azobenz&12Diphlhyd
Concen: 1.20 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:182 Resp: 6981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.0 | 49.9 | 109.9# |
| 77 | 1.1 | 339.9 | 399.9# |

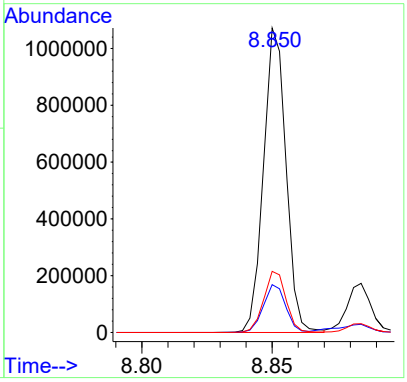


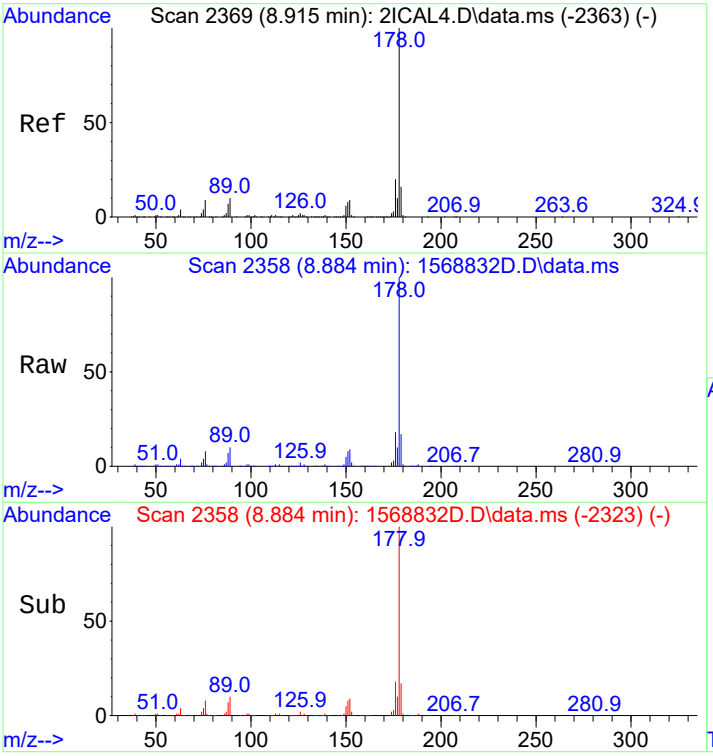




#70
Phenanthrene
Concen: 20.91 ug/mL
RT: 8.850 min Scan# 2346
Delta R.T. -0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:178 Resp: 644823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.7 | 0.0 | 45.9 |
| 176 | 20.1 | 0.0 | 50.4 |

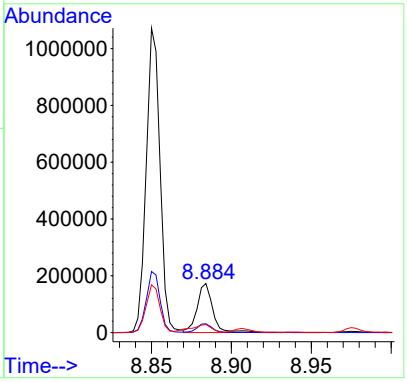


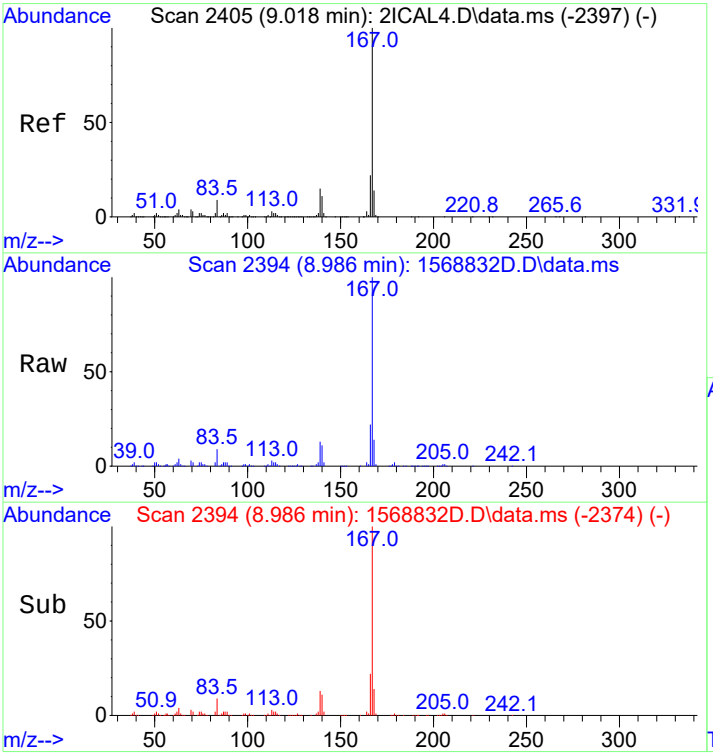



#71
Anthracene
Concen: 3.76 ug/mL
RT: 8.884 min Scan# 2358
Delta R.T. -0.000 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:178 Resp: 118117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.7 | 0.0 | 49.5 |
| 179 | 16.3 | 0.0 | 45.9 |

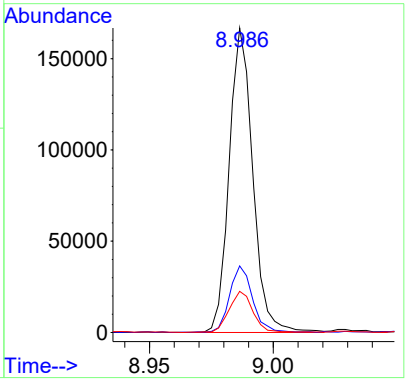


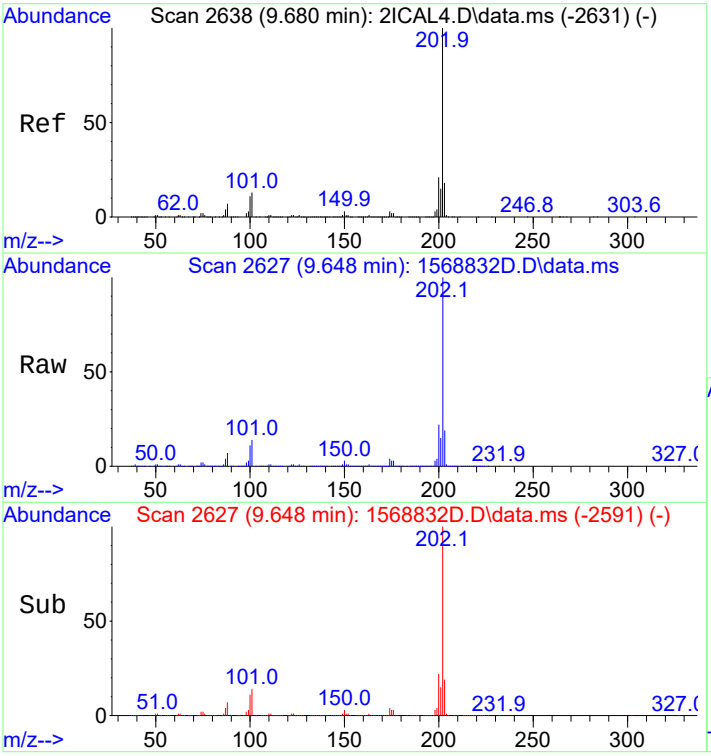




#72
Carbazole
Concen: 4.15 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:167 Resp: 110930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.8 | 0.0 | 52.1 |
| 139 | 13.5 | 0.0 | 44.7 |

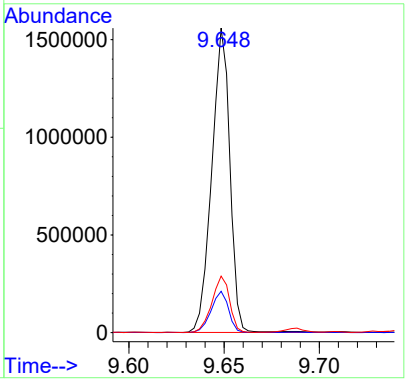


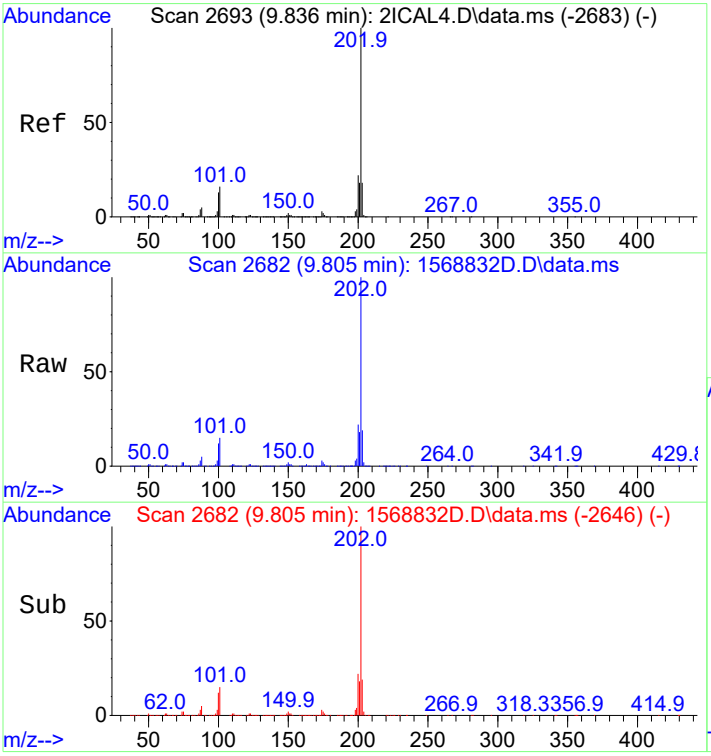



#74
Fluoranthene
Concen: 31.72 ug/mL
RT: 9.648 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:202 Resp: 1032887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.5 | 0.0 | 43.0 |
| 203 | 18.5 | 0.0 | 48.2 |

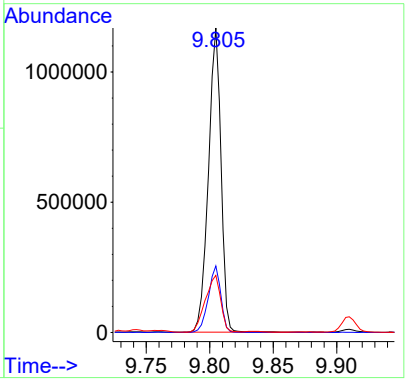


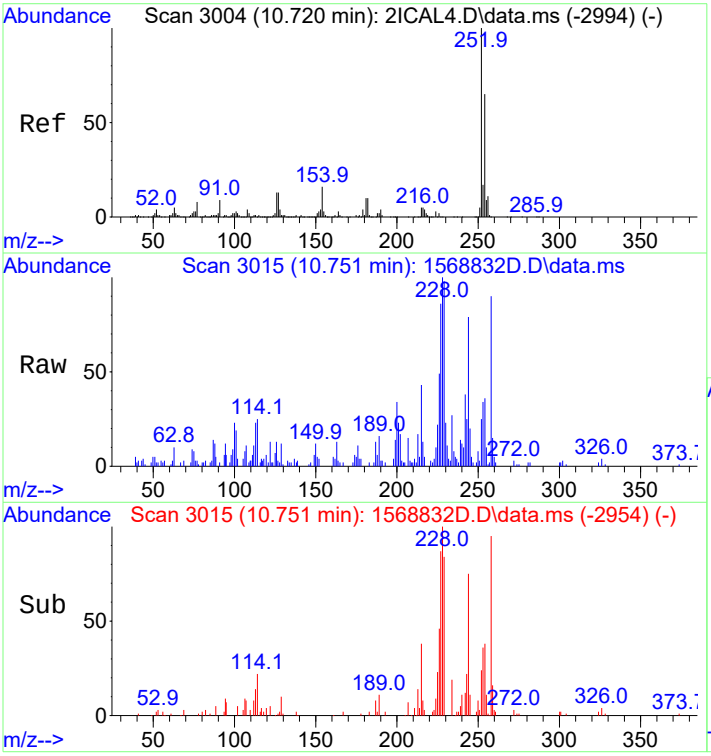




#77
Pyrene
Concen: 22.52 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:202 Resp: 805660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.9 | 0.0 | 52.2 |
| 203 | 18.7 | 0.0 | 48.2 |

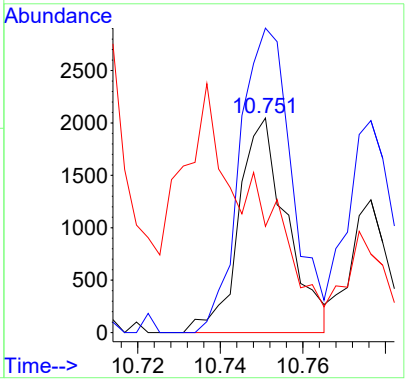


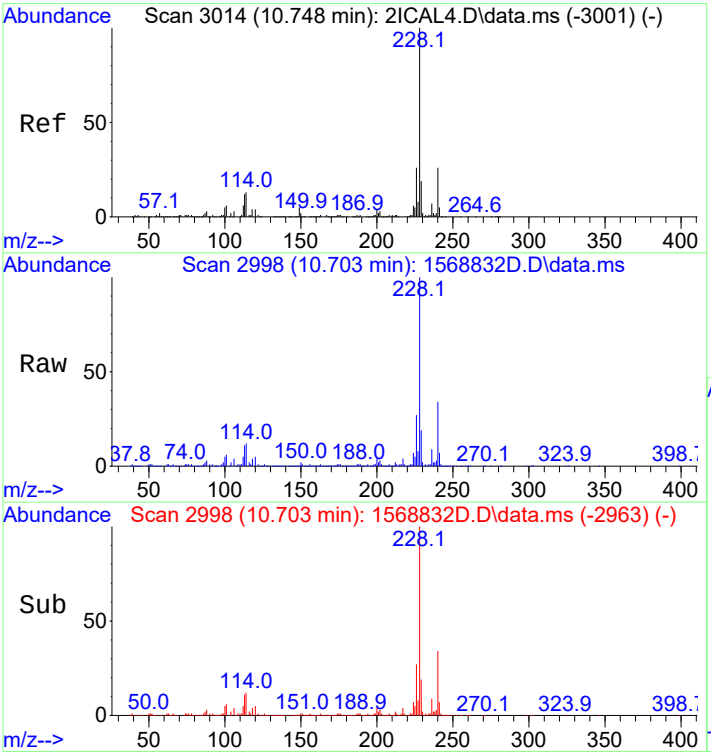



#81
33Diclbnzidin
Concen: Below Cal
RT: 10.751 min Scan# 3015
Delta R.T. 0.074 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:252 Resp: 1656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 141.9 | 34.6 | 94.6# |
| 126 | 51.1 | 0.0 | 42.6# |

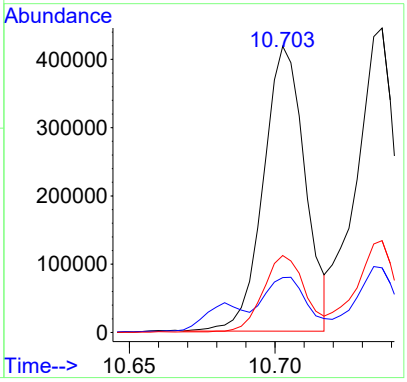


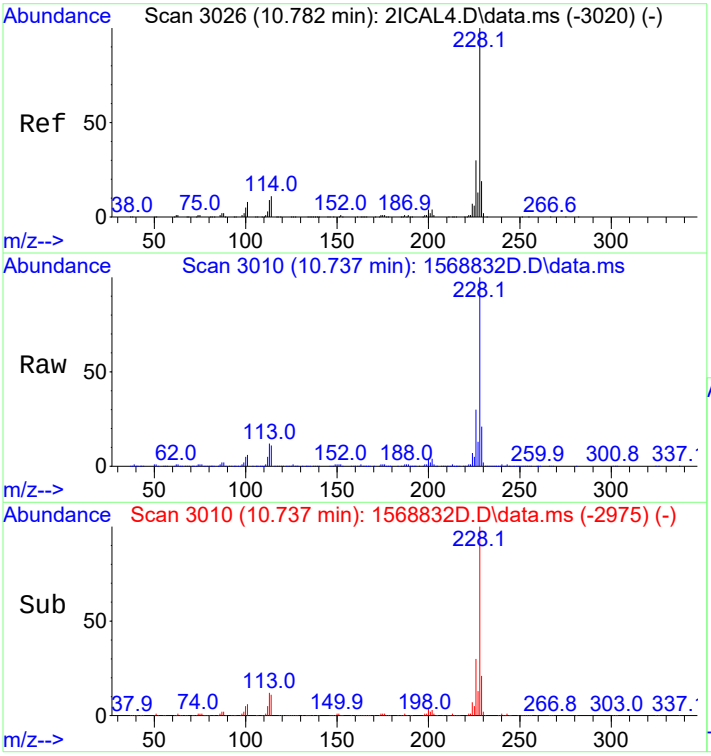




#82
B[a]anthracen
Concen: 12.24 ug/mL
RT: 10.703 min Scan# 2998
Delta R.T. -0.000 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:228 Resp: 415029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 18.4 | 0.0 | 49.4 |
| 226 | 26.8 | 0.0 | 56.5 |

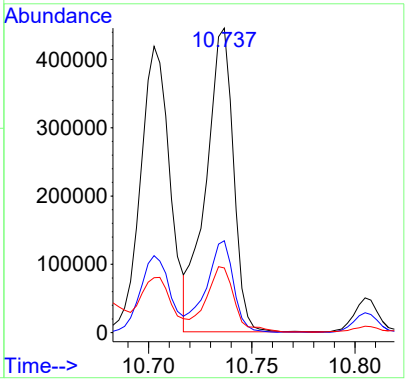


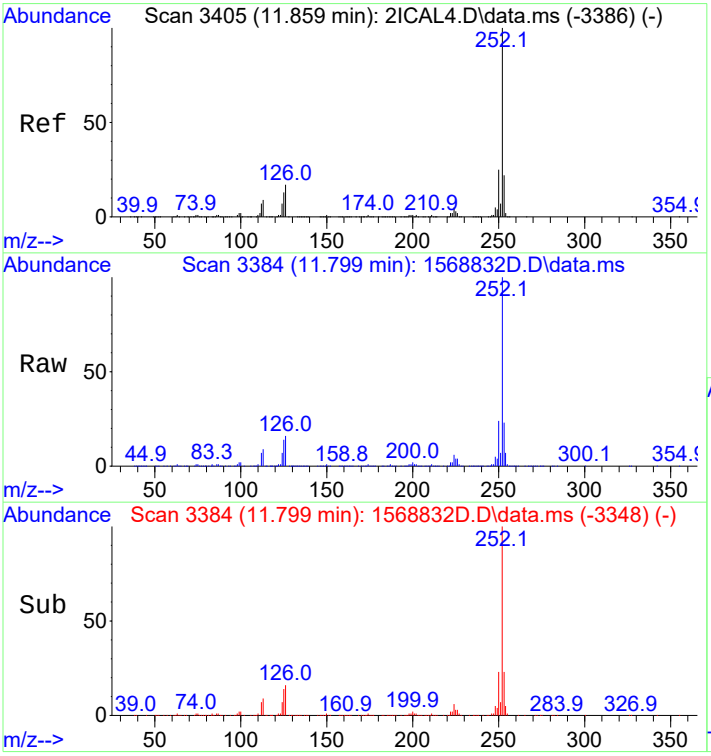



#83
Chrysene
Concen: 12.98 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. -0.000 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:228 Resp: 412773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.1 | 0.0 | 59.9 |
| 229 | 21.1 | 0.0 | 49.5 |

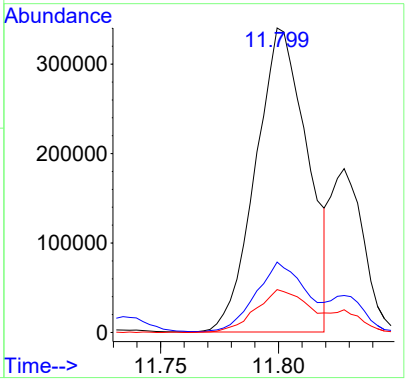


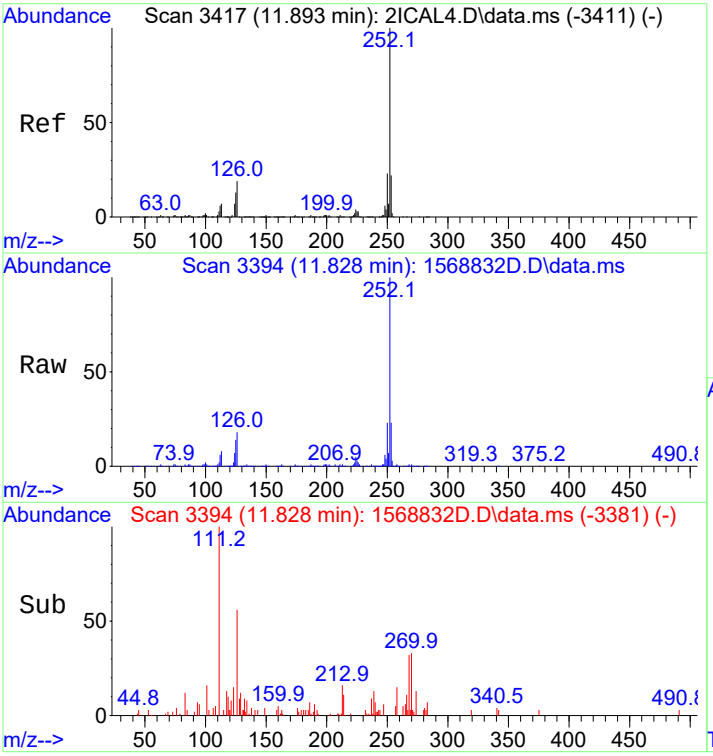




#87
B[b]fluoranth
Concen: 18.36 ug/mL
RT: 11.799 min Scan# 3384
Delta R.T. 0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:252 Resp: 517906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.7 | 0.0 | 52.3 |
| 125 | 14.1 | 0.0 | 43.2 |

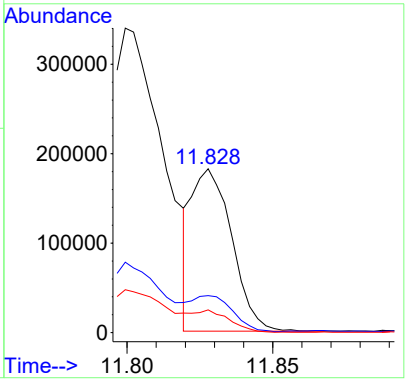


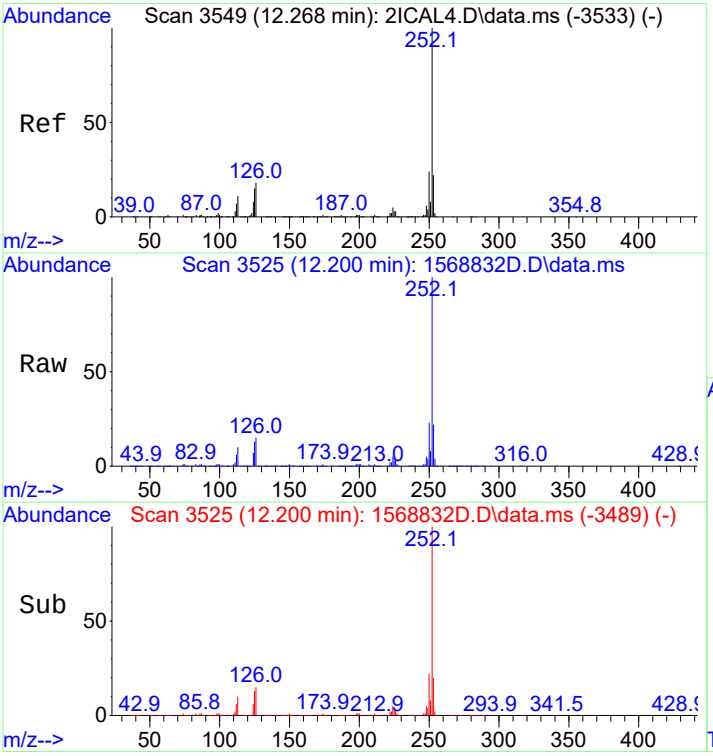



#88
B[k]fluoranth
Concen: 6.15 ug/mL
RT: 11.828 min Scan# 3394
Delta R.T. -0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:252 Resp: 173980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.5 | 0.0 | 52.0 |
| 125 | 13.6 | 0.0 | 43.3 |

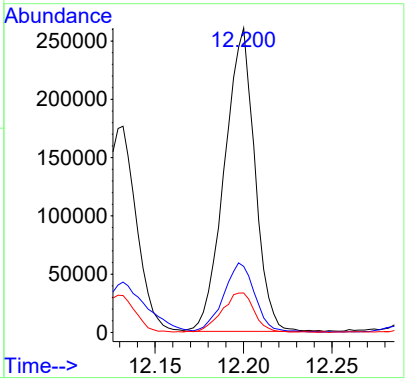


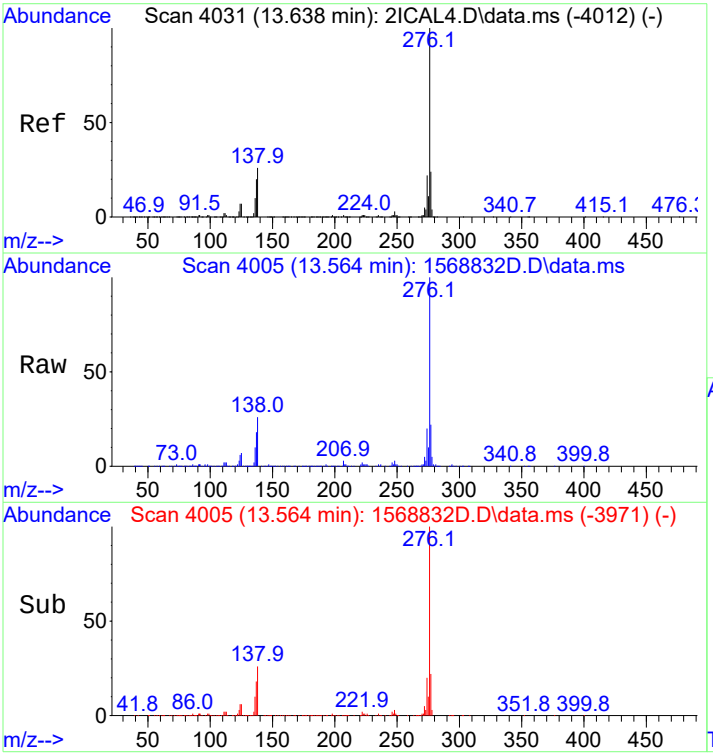




#89
Benz[a]pyrene
Concen: 11.97 ug/mL
RT: 12.200 min Scan# 3525
Delta R.T. 0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:252 Resp: 310590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 0.0 | 52.3 |
| 125 | 12.9 | 0.0 | 45.1 |

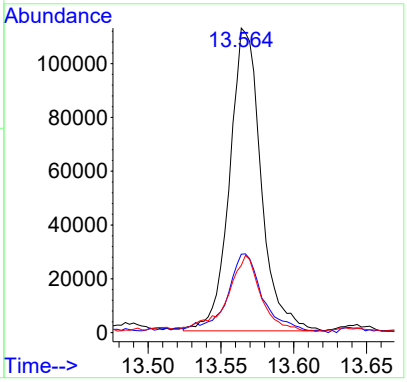


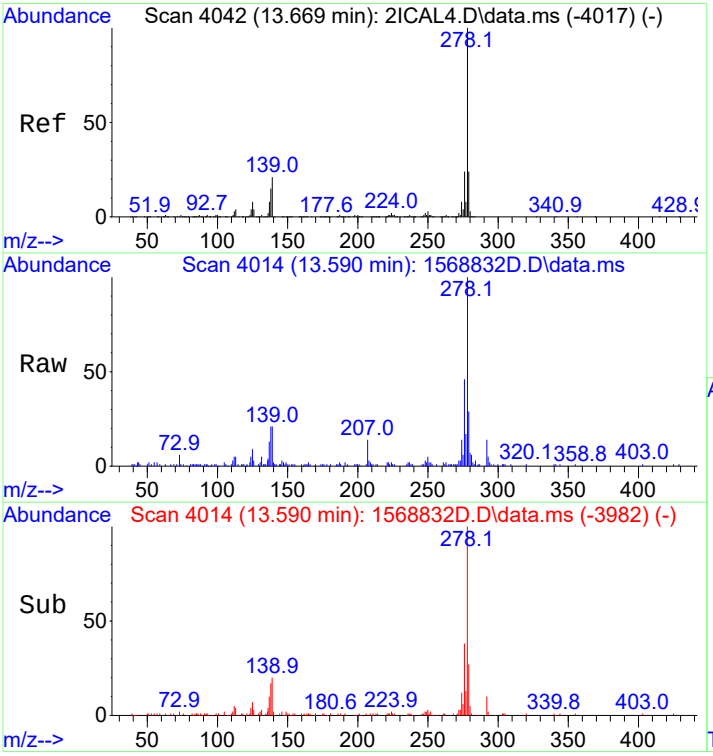



#90
Indeno-pyrene
Concen: 5.88 ug/mL
RT: 13.564 min Scan# 4005
Delta R.T. -0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:276 Resp: 168885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.3 | 0.0 | 55.5 |
| 277 | 21.7 | 0.0 | 54.0 |

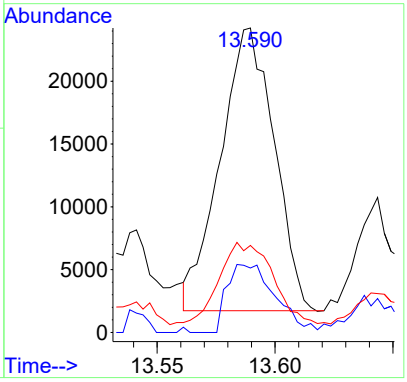


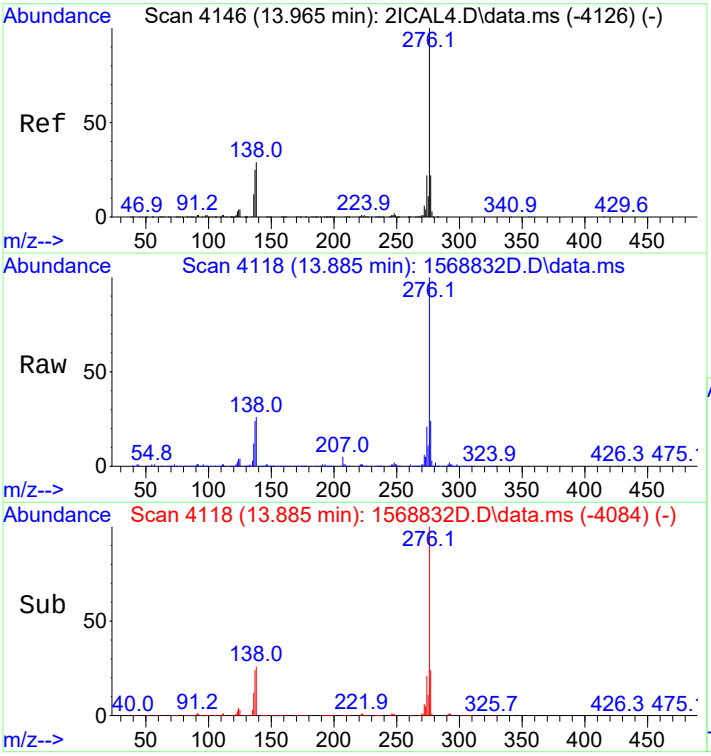




#91
Dib[ah]anthr
Concen: 1.53 ug/mL
RT: 13.590 min Scan# 4014
Delta R.T. -0.009 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:278 Resp: 35823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 20.9 | 0.0 | 50.9 |
| 279 | 27.3 | 0.0 | 54.4 |

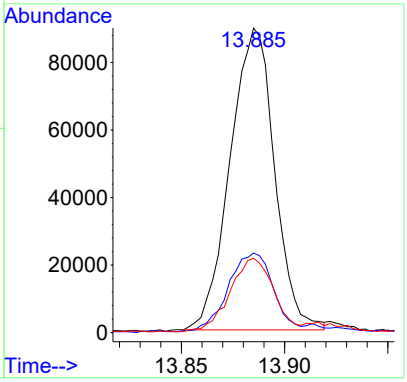





#92
B[ghi]perylen
Concen: 5.95 ug/mL
RT: 13.885 min Scan# 4118
Delta R.T. -0.003 min
Lab File: 1568832D.D
Acq: 11 Apr 2025 19:09

Tgt Ion:276 Resp: 133872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.7 | 0.0 | 59.0 |
| 277 | 24.3 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568820D.D Vial: 23
Acq On : 11 Apr 2025 19:33 Operator: JJY
Sample : 290730,1568820,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:03 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

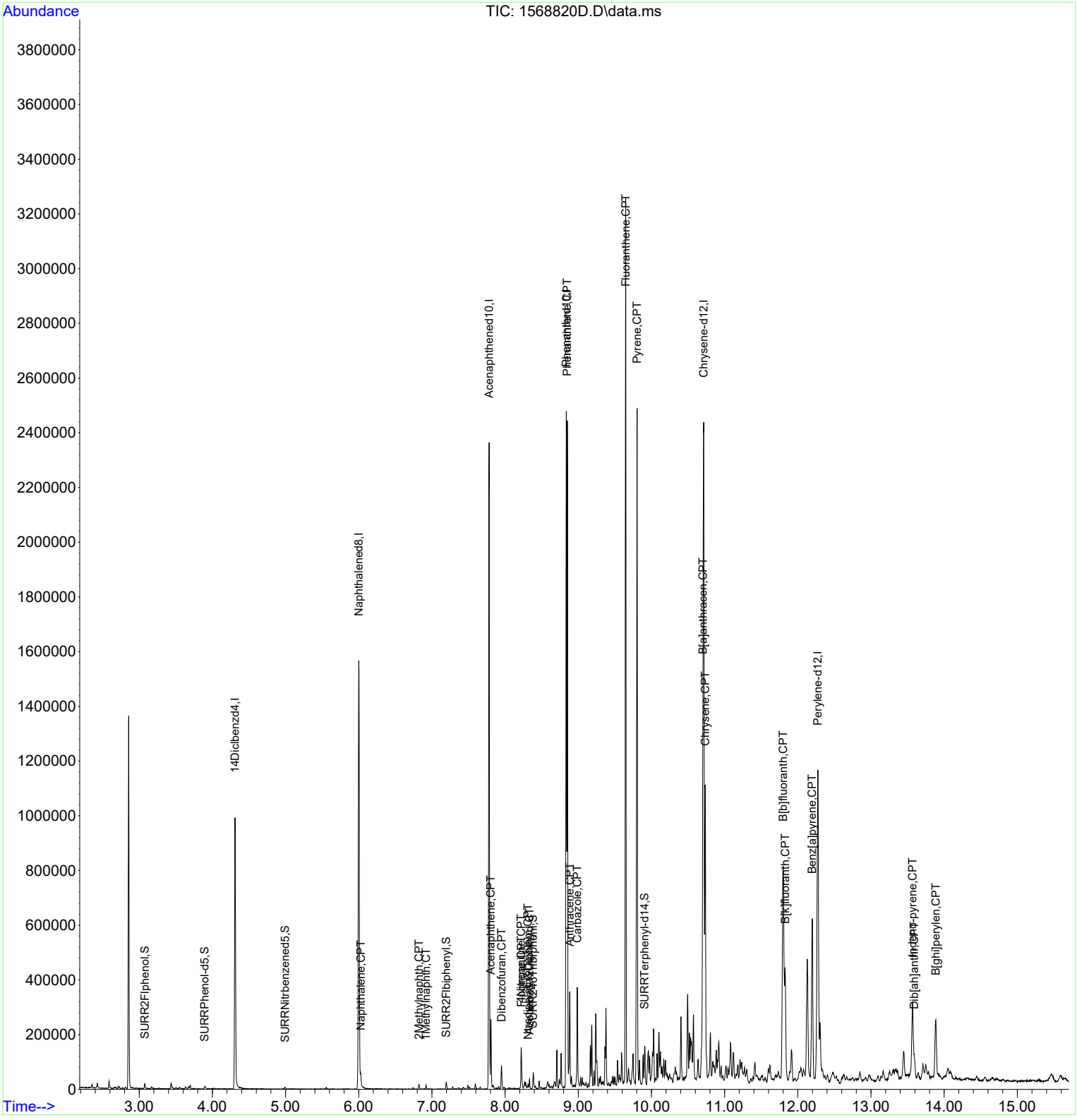
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 156256 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 757692 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 425333 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 631434 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 572943 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.274 | 264 | 559761 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.076 | 112 | 4241 | 1.13 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.13% | | | |
| 7) SURRPhenol-d5 | 3.894 | 99 | 5134 | 1.14 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.14% | | | |
| 22) SURRNitrbenzened5 | 4.994 | 82 | 2544 | 1.23 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.23% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 7515 | 1.48 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.48% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 2079 | 1.83 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.83% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 9493 | 1.70 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.70% | | | |
| Target Compounds | | | | | | Qvalue |
| 31) Naphthalene | 6.028 | 128 | 15530 | 0.4444 | ug/mL | 95 |
| 37) 2Methylnaphth | 6.824 | 142 | 4865 | 0.2304 | ug/mL | 97 |
| 38) 1Methylnaphth | 6.921 | 142 | 3468 | 0.1588 | ug/mL | 83 |
| 50) Acenaphthene | 7.804 | 154 | 41510 | 2.0290 | ug/mL | 98 |
| 53) Dibenzofuran | 7.952 | 168 | 27930 | 0.9454 | ug/mL | 95 |
| 58) Fluorene | 8.222 | 166 | 33175 | 1.4689 | ug/mL | 97 |
| 61) 4Nitroaniline | 8.219 | 138 | 428 | 0.4014 | ug/mL# | 35 |
| 65) Ntrsdiphlam&Diphlam | 8.313 | 169 | 803 | 0.0493 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 6187 | 1.0658 | ug/mL# | 1 |
| 70) Phenanthrene | 8.850 | 178 | 597499 | 19.4226 | ug/mL | 99 |
| 71) Anthracene | 8.884 | 178 | 105807 | 3.3805 | ug/mL | 99 |
| 72) Carbazole | 8.986 | 167 | 102246 | 3.8363 | ug/mL | 98 |
| 74) Fluoranthene | 9.648 | 202 | 911334 | 28.0544 | ug/mL | 100 |
| 77) Pyrene | 9.805 | 202 | 713408 | 19.6033 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.748 | 252 | 822 | Below Cal | # | 23 |
| 82) B[a]anthracen | 10.703 | 228 | 354792 | 10.2855 | ug/mL | 98 |
| 83) Chrysene | 10.737 | 228 | 358885 | 11.0936 | ug/mL | 97 |
| 87) B[b]fluoranth | 11.799 | 252 | 464538 | 15.6666 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.828 | 252 | 148247 | 4.9901 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.197 | 252 | 268676 | 9.8529 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.567 | 276 | 146855 | 4.8691 | ug/mL | 96 |
| 91) Dib[ah]anthr | 13.589 | 278 | 35660 | 1.4464 | ug/mL | 94 |
| 92) B[ghi]perylen | 13.885 | 276 | 118837 | 5.0291 | ug/mL | 93 |

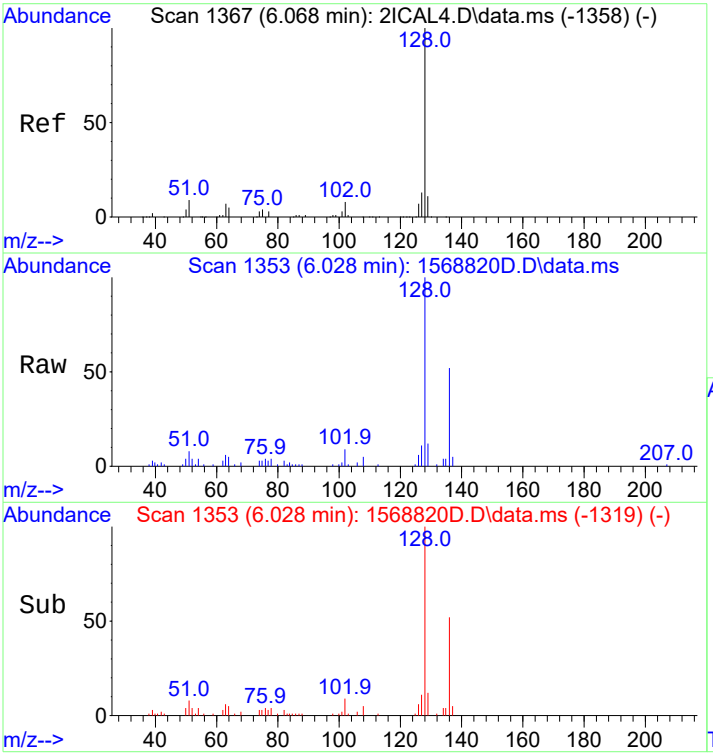
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568820D.D Vial: 23
Acq On : 11 Apr 2025 19:33 Operator: JJY
Sample : 290730,1568820,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:03 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

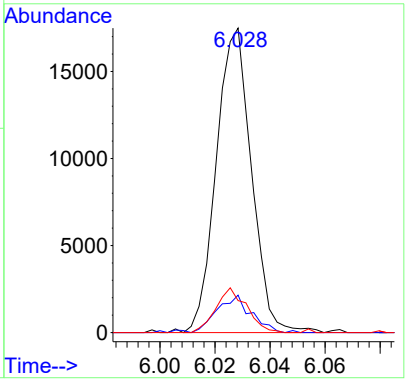


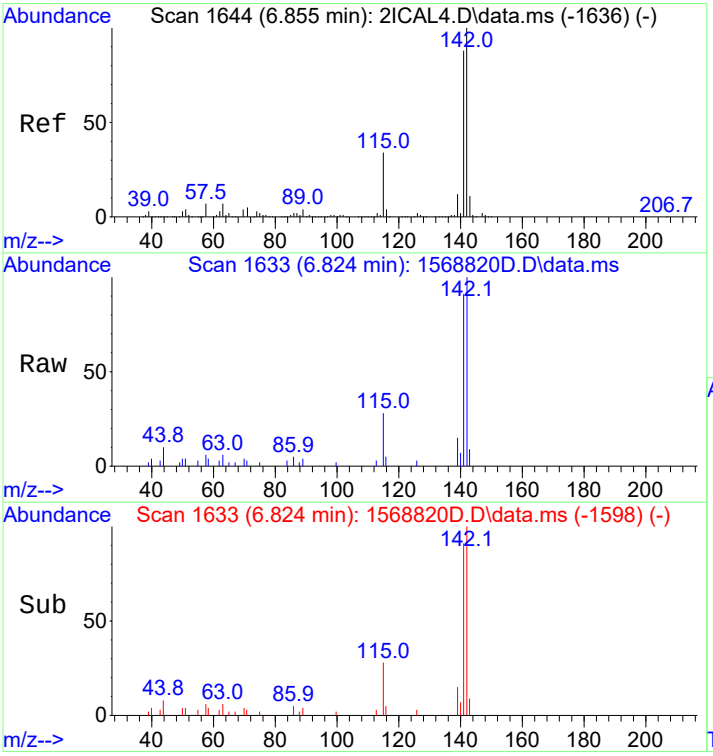



#31
Naphthalene
Concen: 0.44 ug/mL
RT: 6.028 min Scan# 1353
Delta R.T. -0.003 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:128 Resp: 15530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.3 | 0.0 | 41.0 |
| 127 | 10.5 | 0.0 | 43.3 |

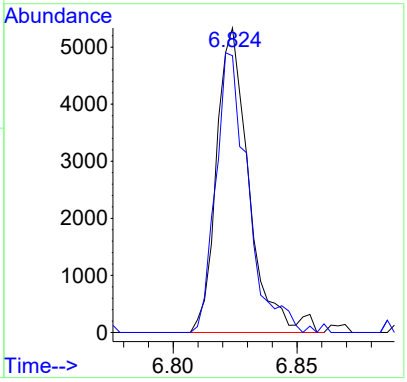


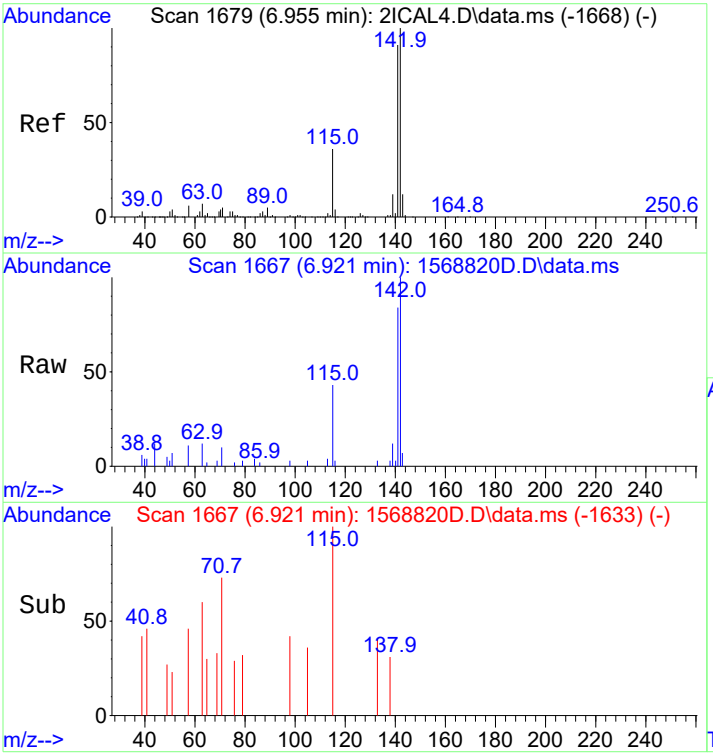




#37
2Methylnaphth
Concen: 0.23 ug/mL
RT: 6.824 min Scan# 1633
Delta R.T. -0.000 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:142 Resp: 4865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.9 | 58.0 | 118.0 |

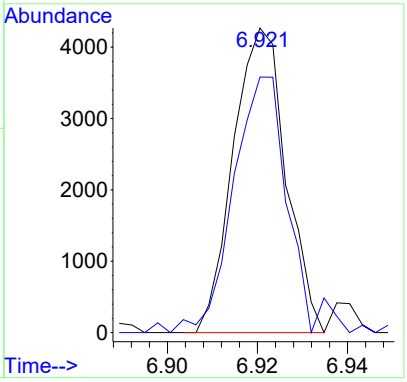


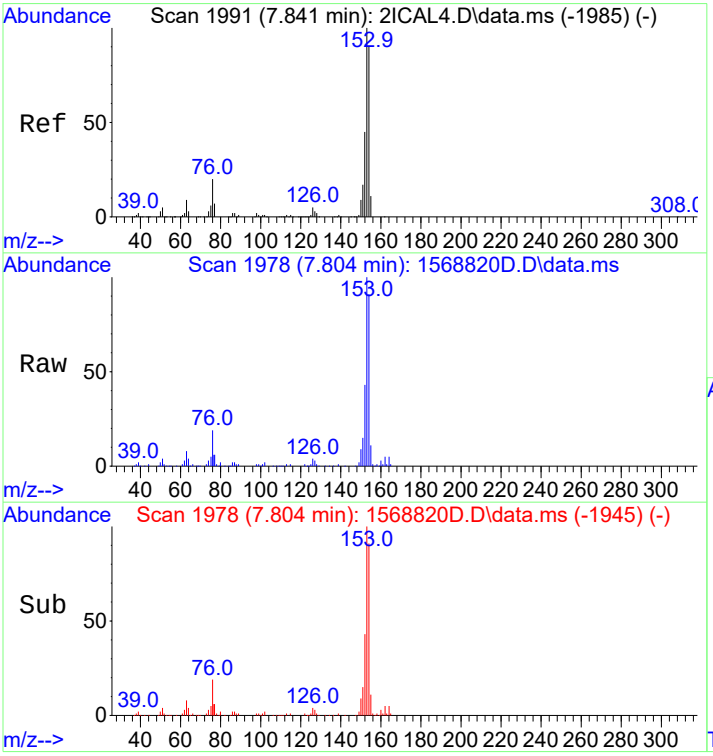



#38
1Methylnaphth
Concen: 0.16 ug/mL
RT: 6.921 min Scan# 1667
Delta R.T. -0.003 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:142 Resp: 3468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 74.5 | 60.7 | 120.7 |

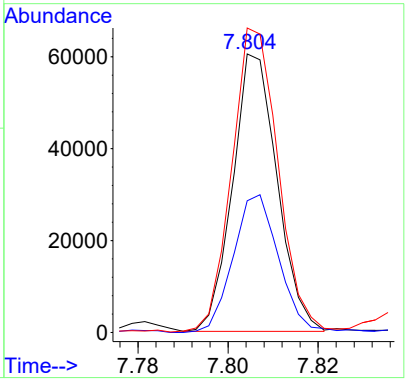


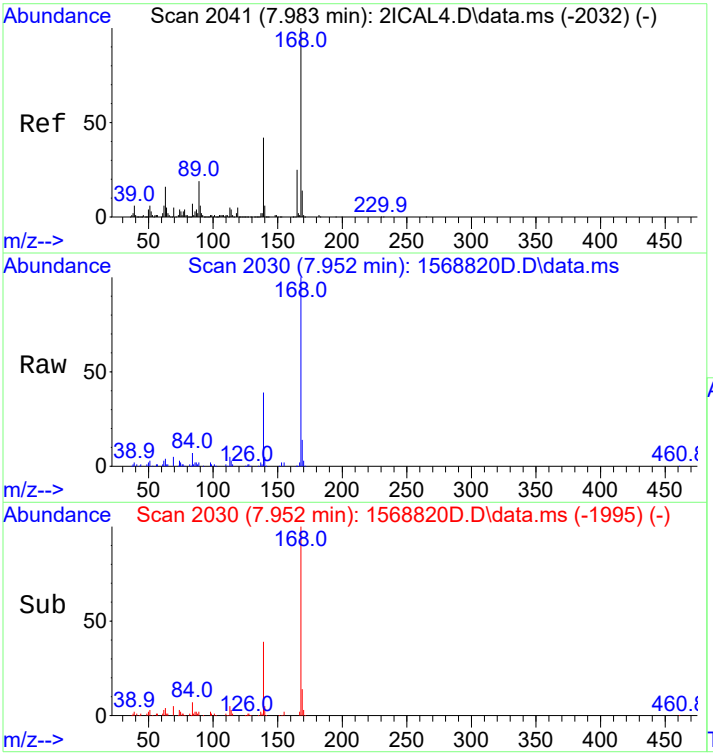




#50
Acenaphthene
Concen: 2.03 ug/mL
RT: 7.804 min Scan# 1978
Delta R.T. -0.006 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:154 Resp: 41510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 47.4 | 20.0 | 80.0 |
| 153 | 109.2 | 80.7 | 140.7 |

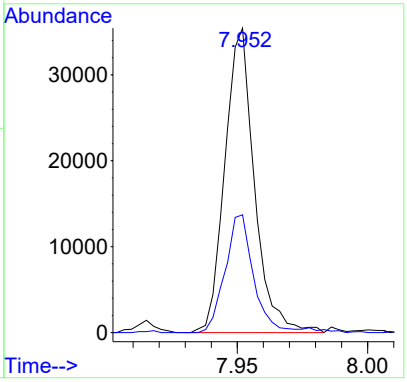


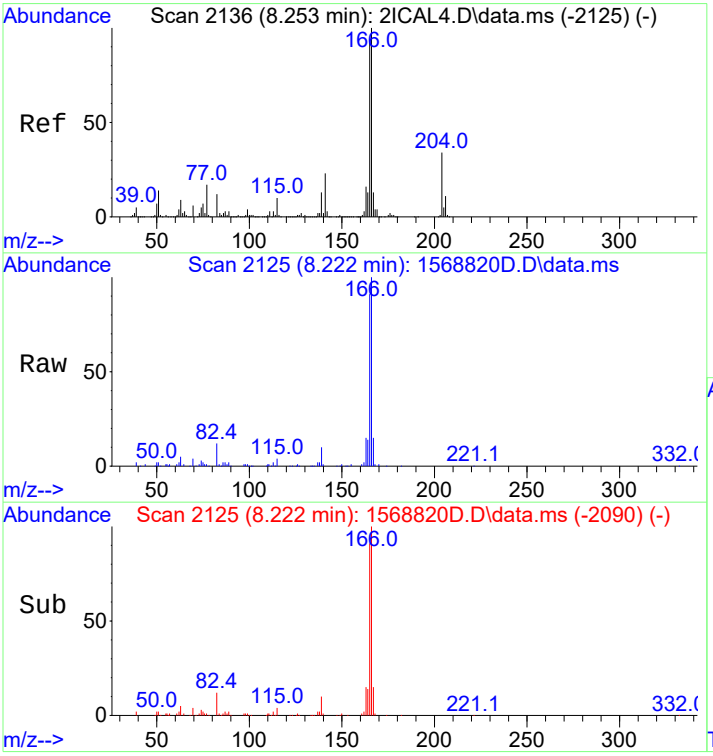



#53
Dibenzofuran
Concen: 0.95 ug/mL
RT: 7.952 min Scan# 2030
Delta R.T. -0.000 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:168 Resp: 27930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 38.7 | 11.9 | 71.9 |

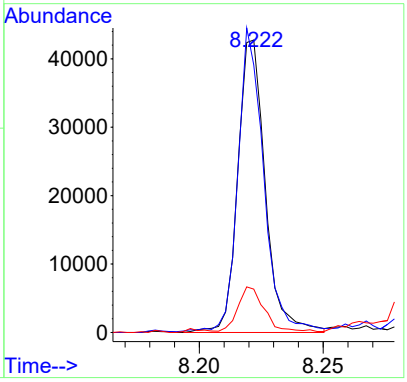


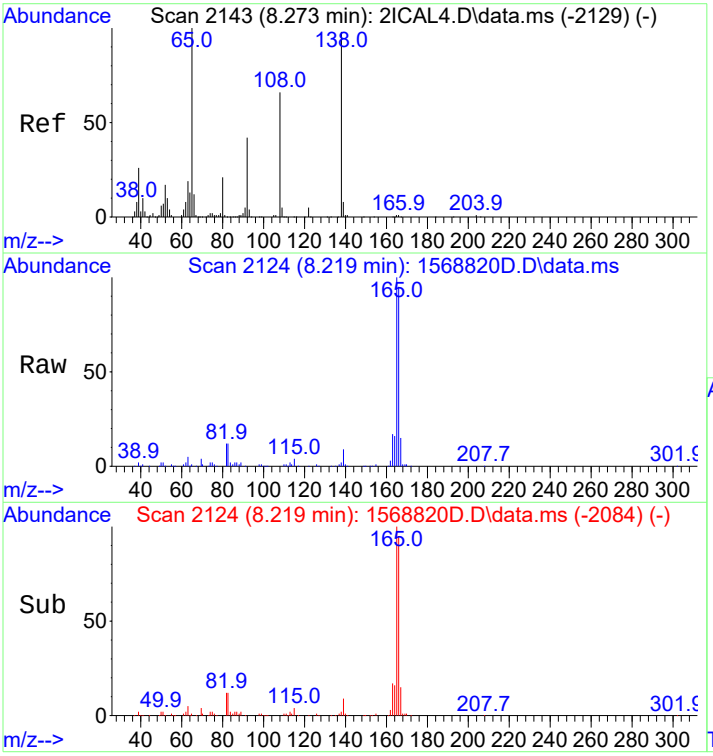




#58
Fluorene
Concen: 1.47 ug/mL
RT: 8.222 min Scan# 2125
Delta R.T. -0.000 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:166 Resp: 33175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 91.0 | 63.6 | 123.6 |
| 167 | 14.5 | 0.0 | 43.3 |

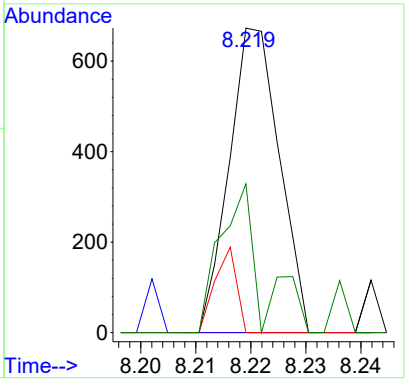


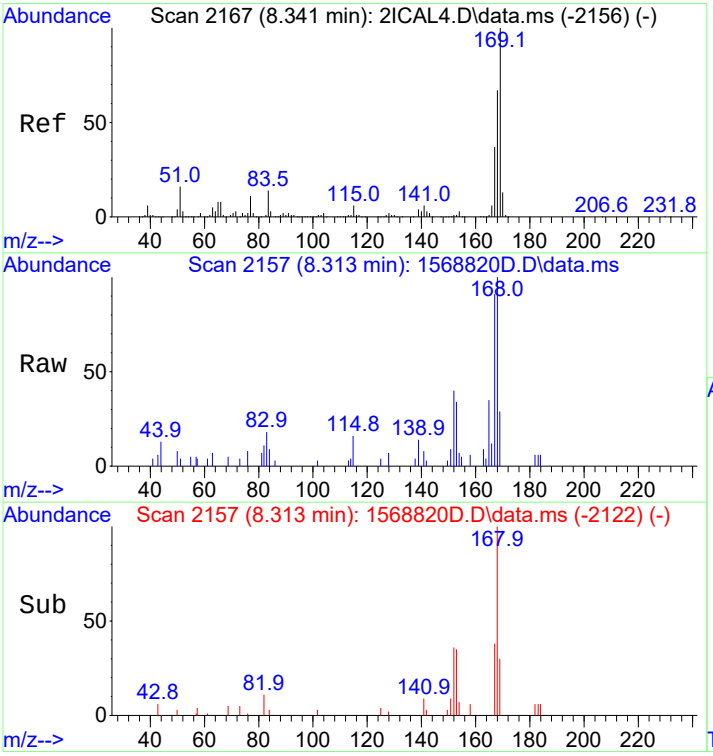



#61
4Nitroaniline
Concen: 0.40 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.026 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:138 Resp: 428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 48.9 | 71.1 | 131.1# |

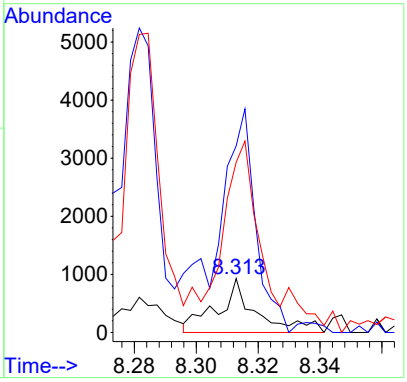


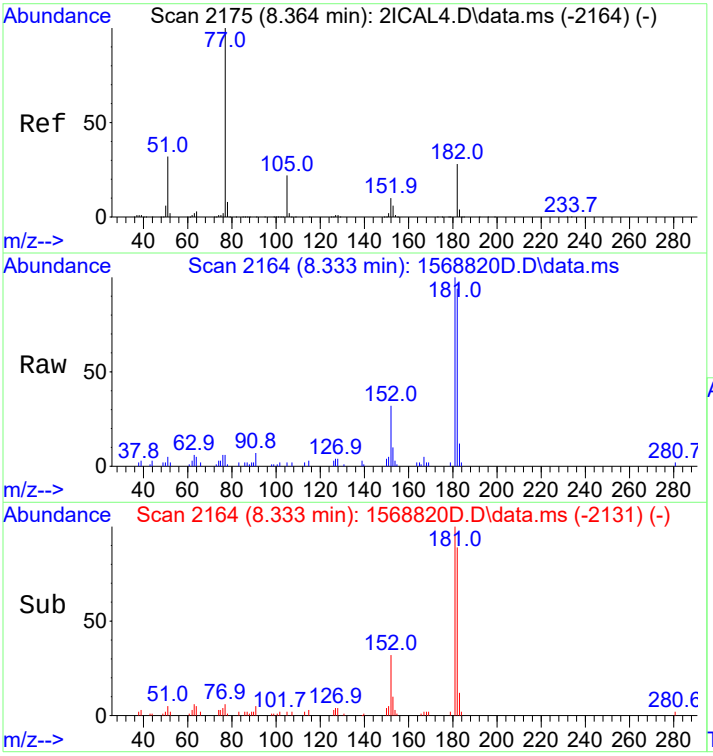




#65
Ntrsdiphlam&Diphlam
Concen: 0.05 ug/mL
RT: 8.313 min Scan# 2157
Delta R.T. -0.000 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:169 Resp: 803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 334.3 | 37.2 | 97.2# |
| 167 | 303.0 | 6.9 | 66.9# |

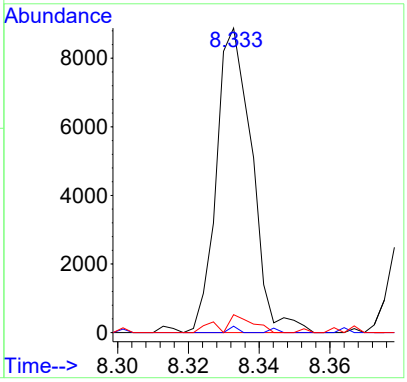


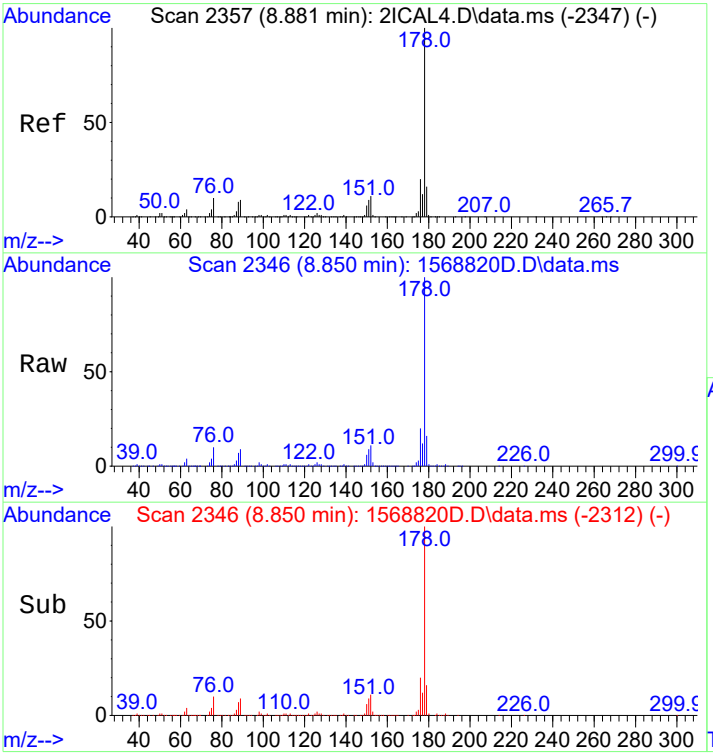



#66
Azobenz&12Diphlhyd
Concen: 1.07 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:182 Resp: 6187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 2.1 | 49.9 | 109.9# |
| 77 | 5.9 | 339.9 | 399.9# |

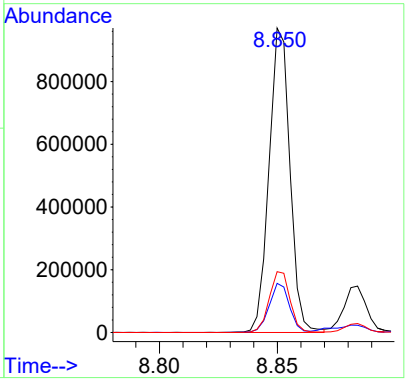


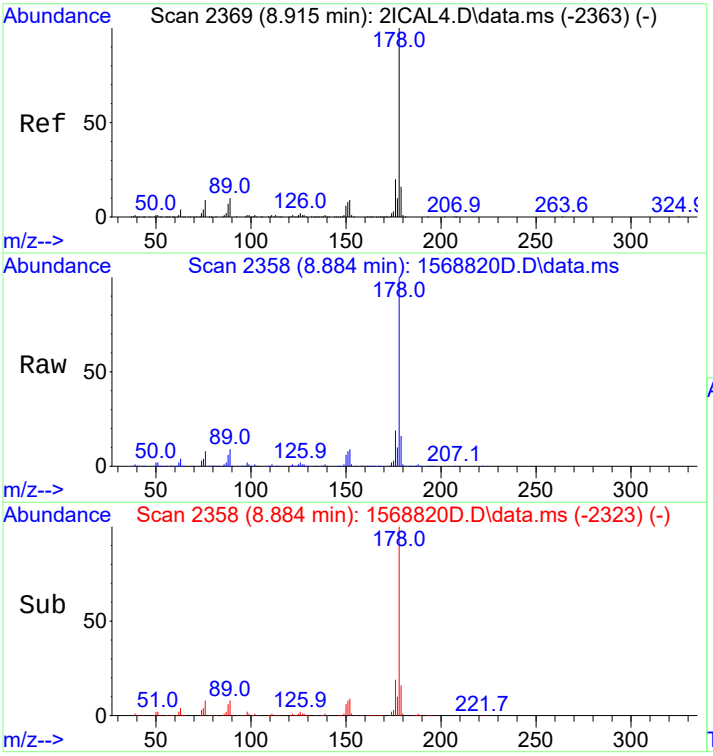




#70
Phenanthrene
Concen: 19.42 ug/mL
RT: 8.850 min Scan# 2346
Delta R.T. -0.003 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:178 Resp: 597499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.1 | 0.0 | 45.9 |
| 176 | 19.9 | 0.0 | 50.4 |

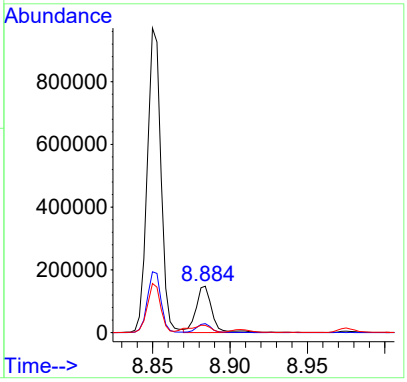


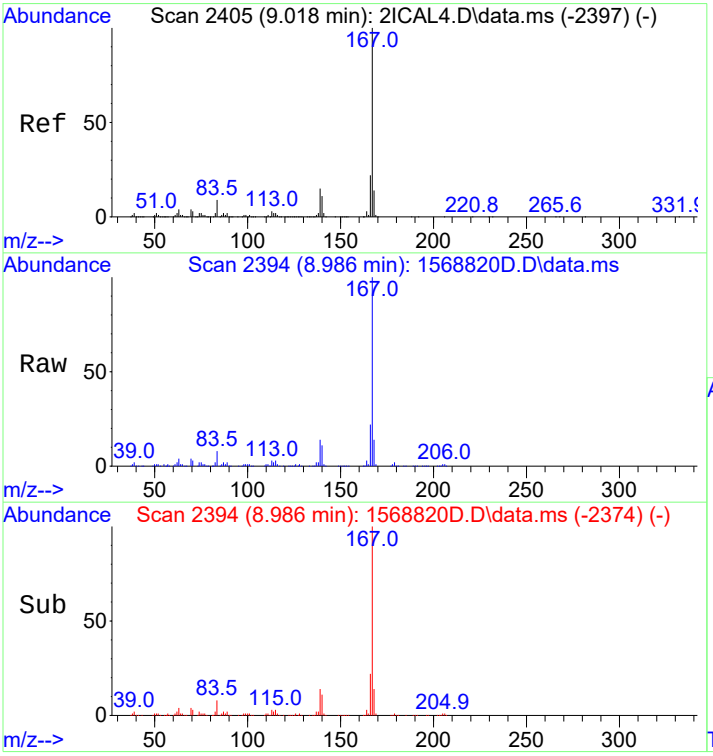



#71
Anthracene
Concen: 3.38 ug/mL
RT: 8.884 min Scan# 2358
Delta R.T. -0.000 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:178 Resp: 105807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 0.0 | 49.5 |
| 179 | 15.2 | 0.0 | 45.9 |

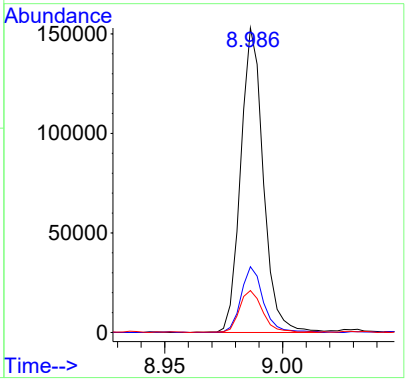


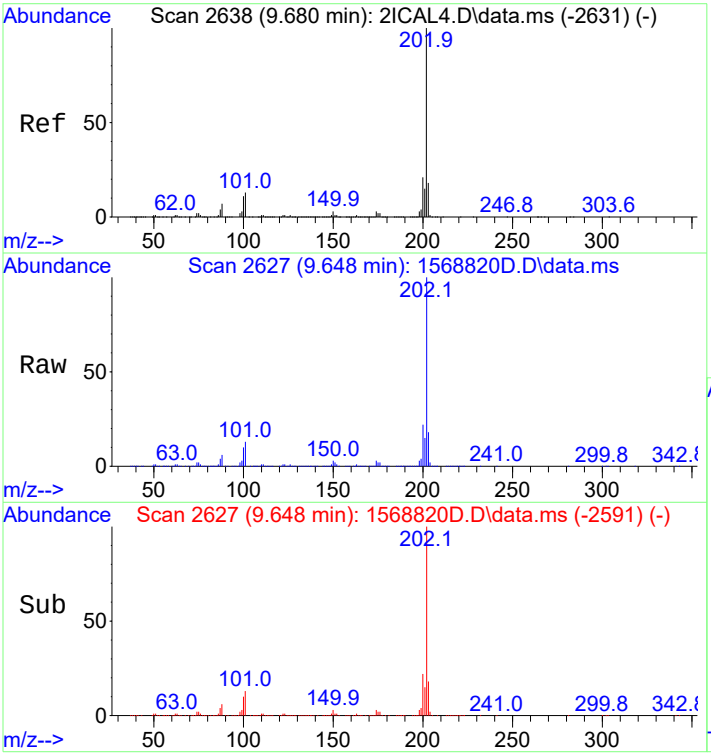




#72
Carbazole
Concen: 3.84 ug/mL
RT: 8.986 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:167 Resp: 102246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.6 | 0.0 | 52.1 |
| 139 | 13.7 | 0.0 | 44.7 |

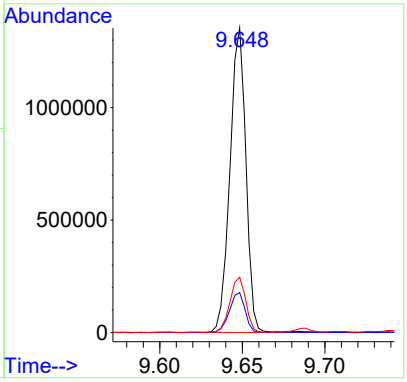


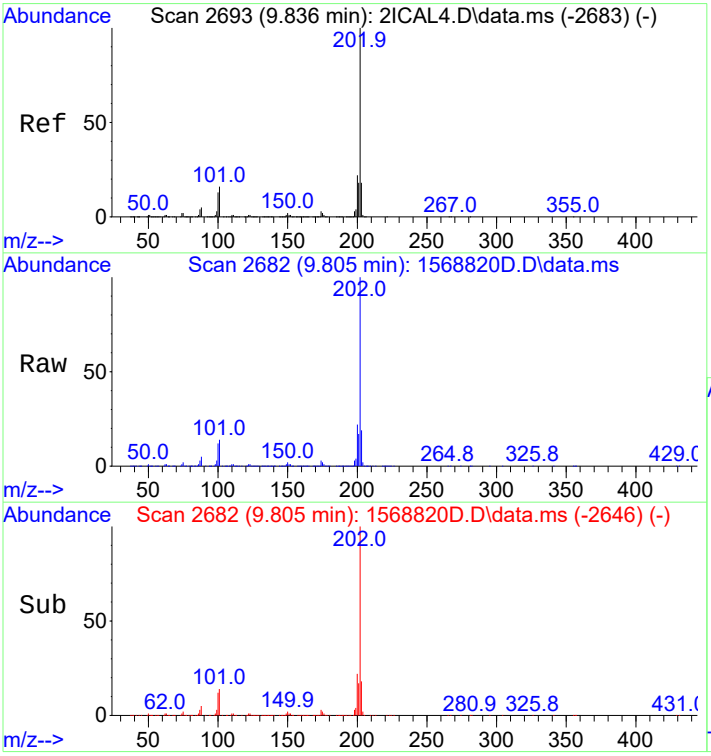



#74
Fluoranthene
Concen: 28.05 ug/mL
RT: 9.648 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:202 Resp: 911334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 13.1 | 0.0 | 43.0 |
| 203 | 18.1 | 0.0 | 48.2 |

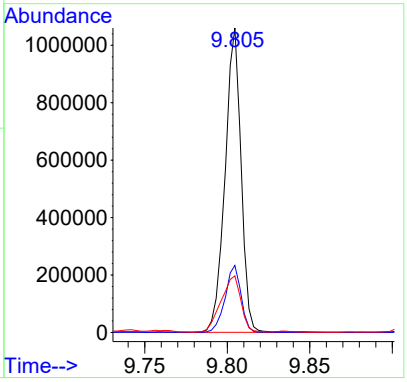


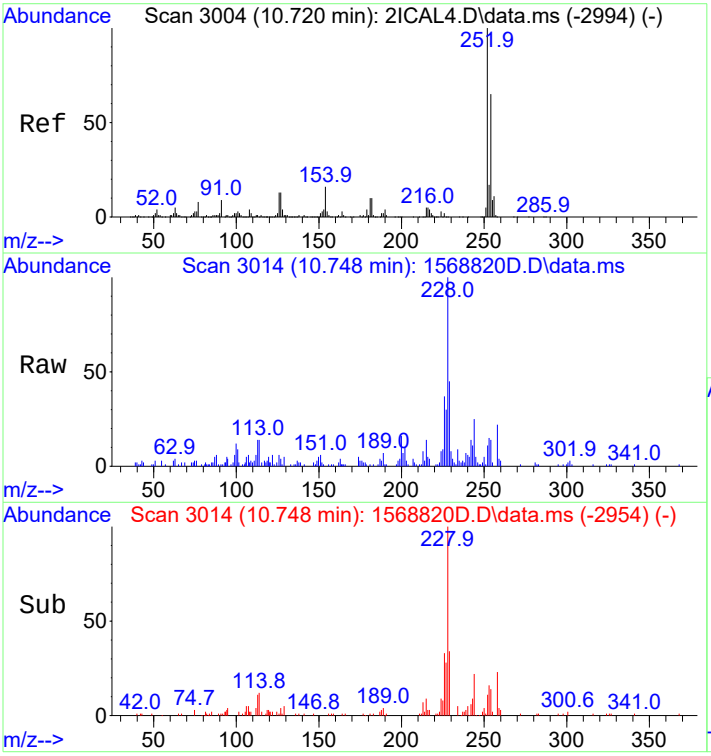




#77
Pyrene
Concen: 19.60 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:202 Resp: 713408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.0 | 0.0 | 52.2 |
| 203 | 18.6 | 0.0 | 48.2 |

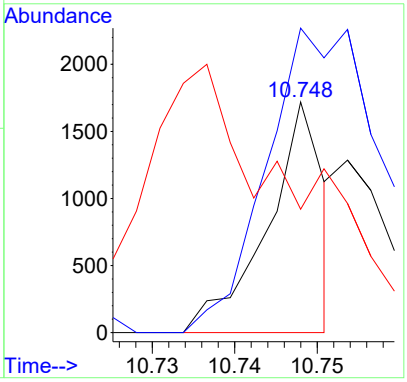


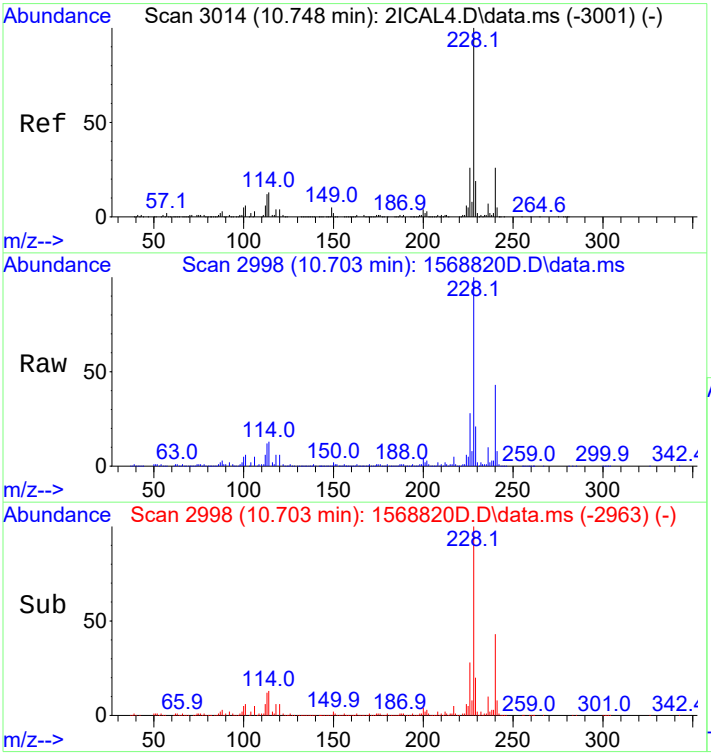



#81
33Diclbnzidin
Concen: Below Cal
RT: 10.748 min Scan# 3014
Delta R.T. 0.071 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:252 Resp: 822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 132.1 | 34.6 | 94.6# |
| 126 | 0.0 | 0.0 | 42.6 |

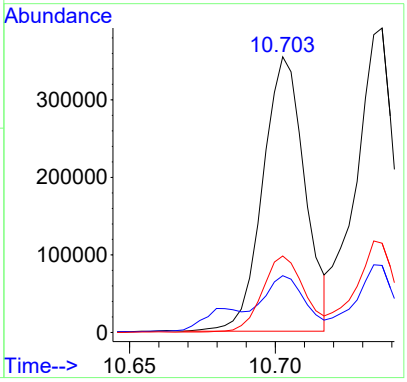


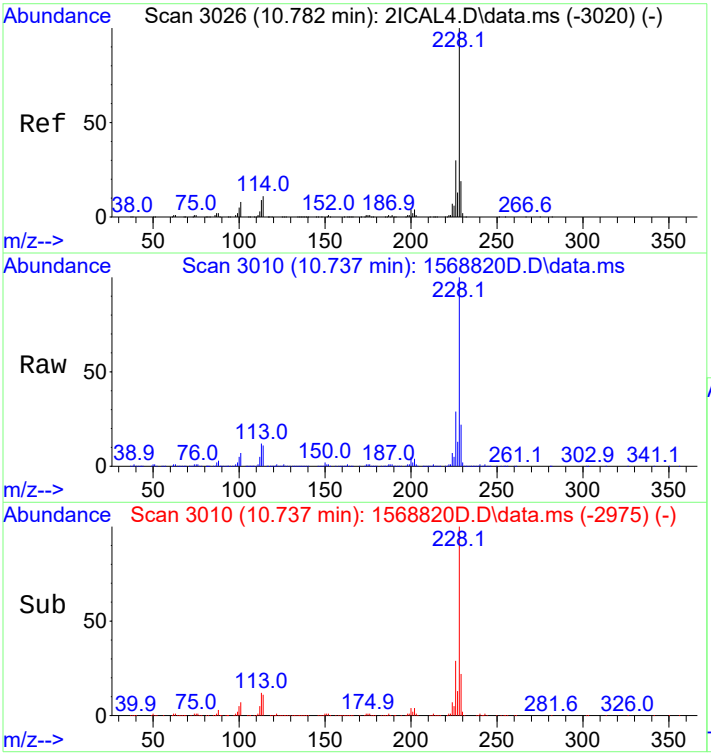




#82
B[a]anthracen
Concen: 10.29 ug/mL
RT: 10.703 min Scan# 2998
Delta R.T. -0.000 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:228 Resp: 354792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 19.8 | 0.0 | 49.4 |
| 226 | 27.7 | 0.0 | 56.5 |

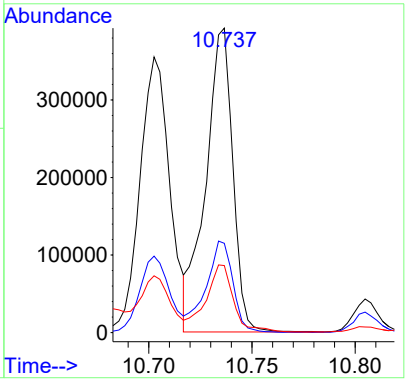


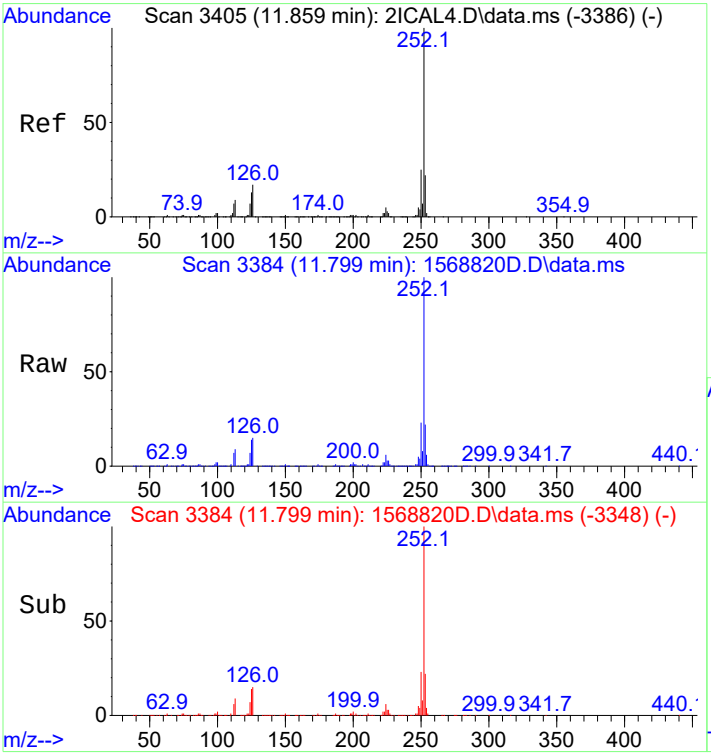



#83
Chrysene
Concen: 11.09 ug/mL
RT: 10.737 min Scan# 3010
Delta R.T. -0.000 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:228 Resp: 358885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.3 | 0.0 | 59.9 |
| 229 | 21.9 | 0.0 | 49.5 |

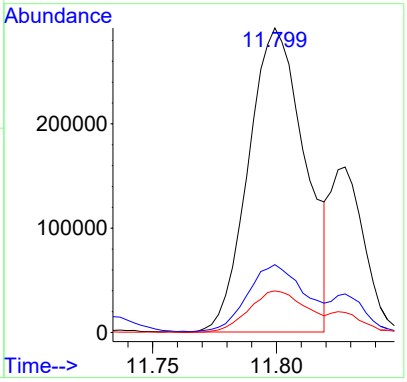


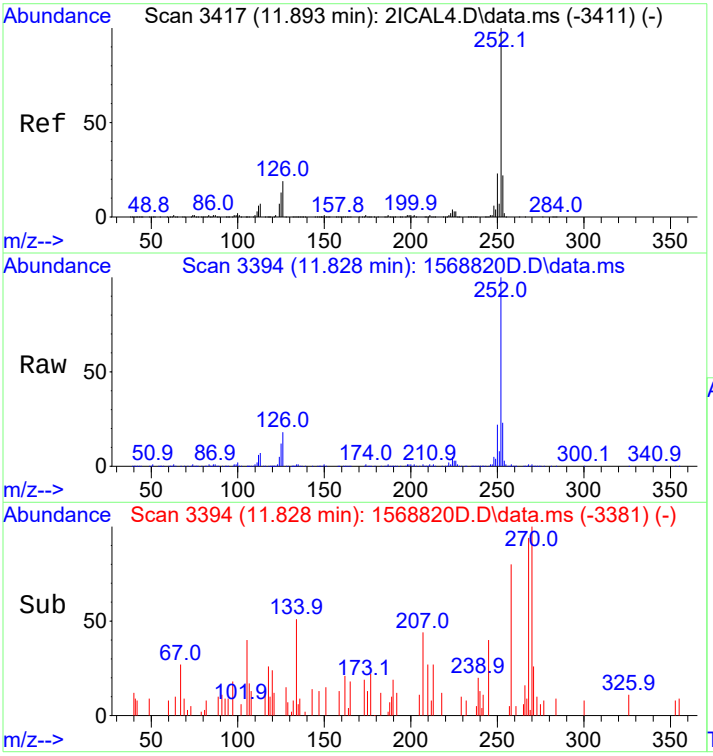




#87
B[b]fluoranth
Concen: 15.67 ug/mL
RT: 11.799 min Scan# 3384
Delta R.T. 0.003 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:252 Resp: 464538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 0.0 | 52.3 |
| 125 | 13.7 | 0.0 | 43.2 |

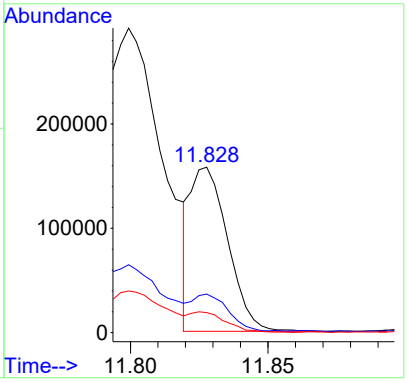


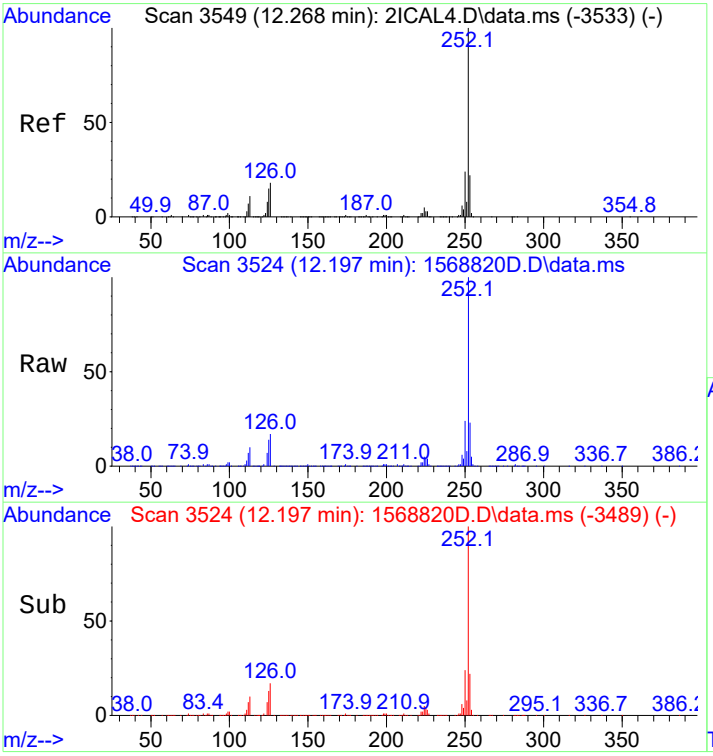



#88
B[k]fluoranth
Concen: 4.99 ug/mL
RT: 11.828 min Scan# 3394
Delta R.T. -0.003 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:252 Resp: 148247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 0.0 | 52.0 |
| 125 | 11.9 | 0.0 | 43.3 |

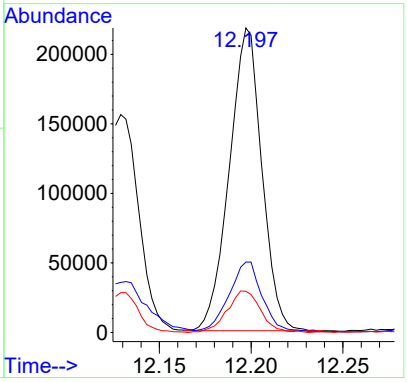


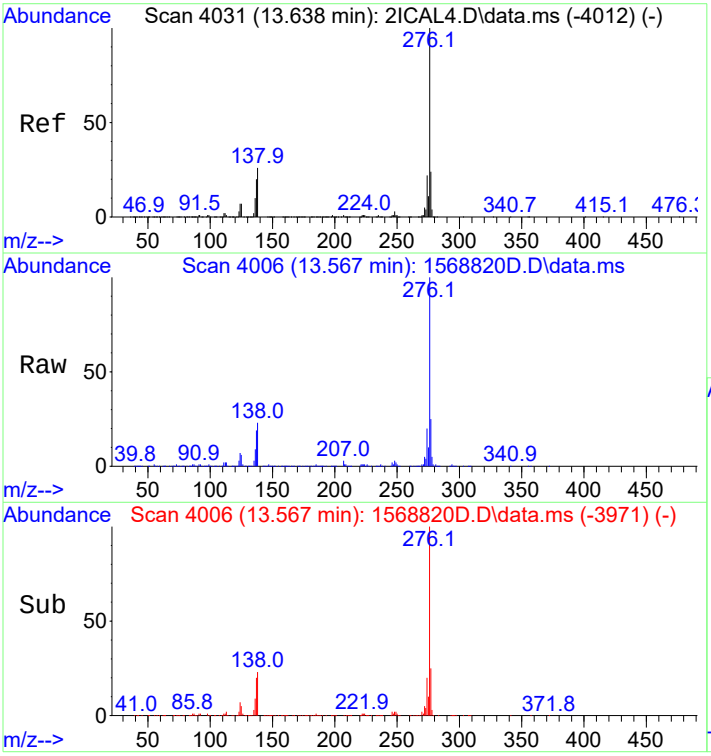




#89
Benz[a]pyrene
Concen: 9.85 ug/mL
RT: 12.197 min Scan# 3524
Delta R.T. -0.000 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:252 Resp: 268676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 0.0 | 52.3 |
| 125 | 13.5 | 0.0 | 45.1 |

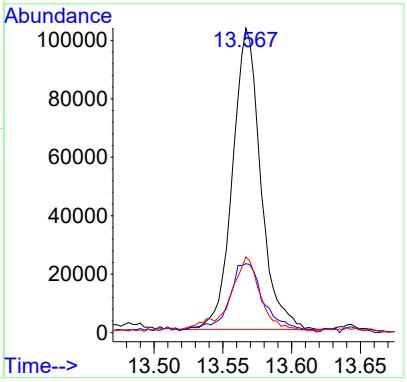


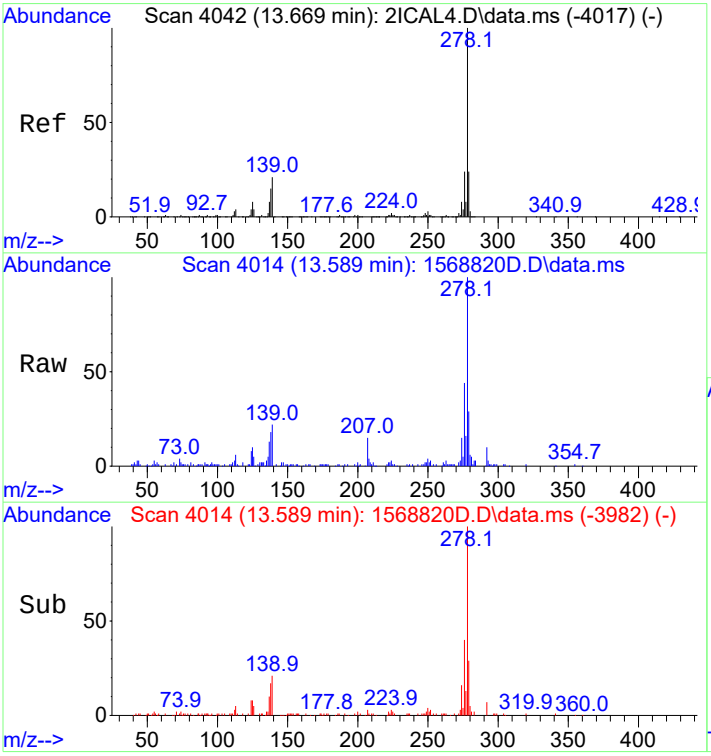



#90
Indeno-pyrene
Concen: 4.87 ug/mL
RT: 13.567 min Scan# 4006
Delta R.T. -0.000 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:276 Resp: 146855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 21.5 | 0.0 | 55.5 |
| 277 | 24.1 | 0.0 | 54.0 |

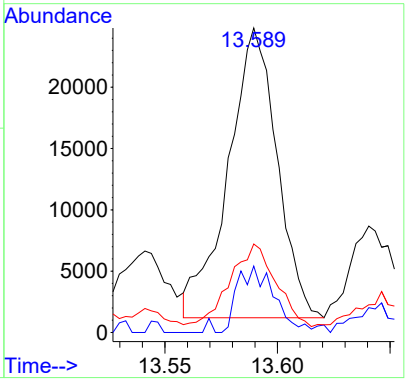


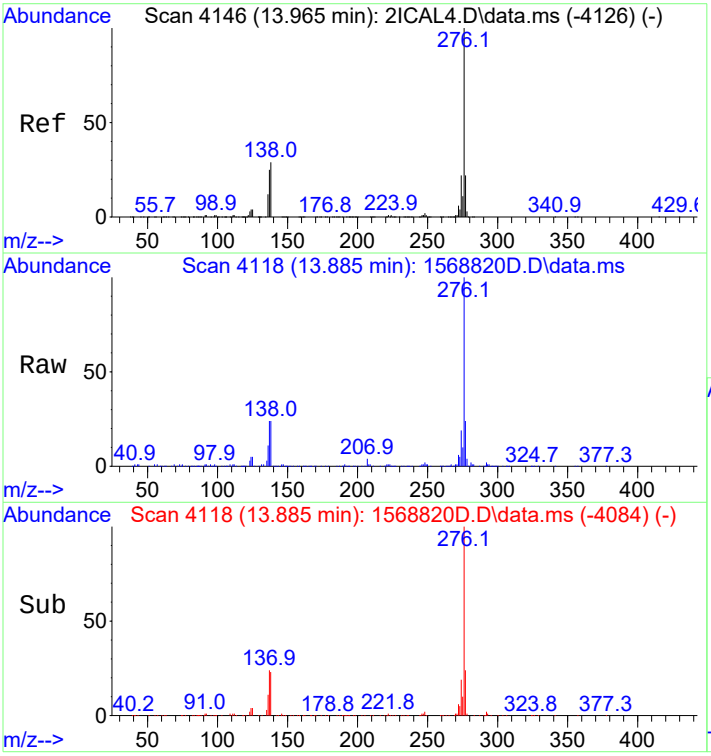




#91
Dib[ah]anthr
Concen: 1.45 ug/mL
RT: 13.589 min Scan# 4014
Delta R.T. -0.009 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:278 Resp: 35660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 22.9 | 0.0 | 50.9 |
| 279 | 27.9 | 0.0 | 54.4 |

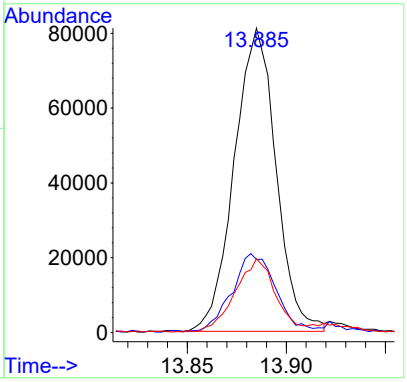





#92
B[ghi]perylen
Concen: 5.03 ug/mL
RT: 13.885 min Scan# 4118
Delta R.T. -0.003 min
Lab File: 1568820D.D
Acq: 11 Apr 2025 19:33

Tgt Ion:276 Resp: 118837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.8 | 0.0 | 59.0 |
| 277 | 24.2 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568838R.D Vial: 24
Acq On : 11 Apr 2025 19:56 Operator: JJY
Sample : 290730,1568838,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:24 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

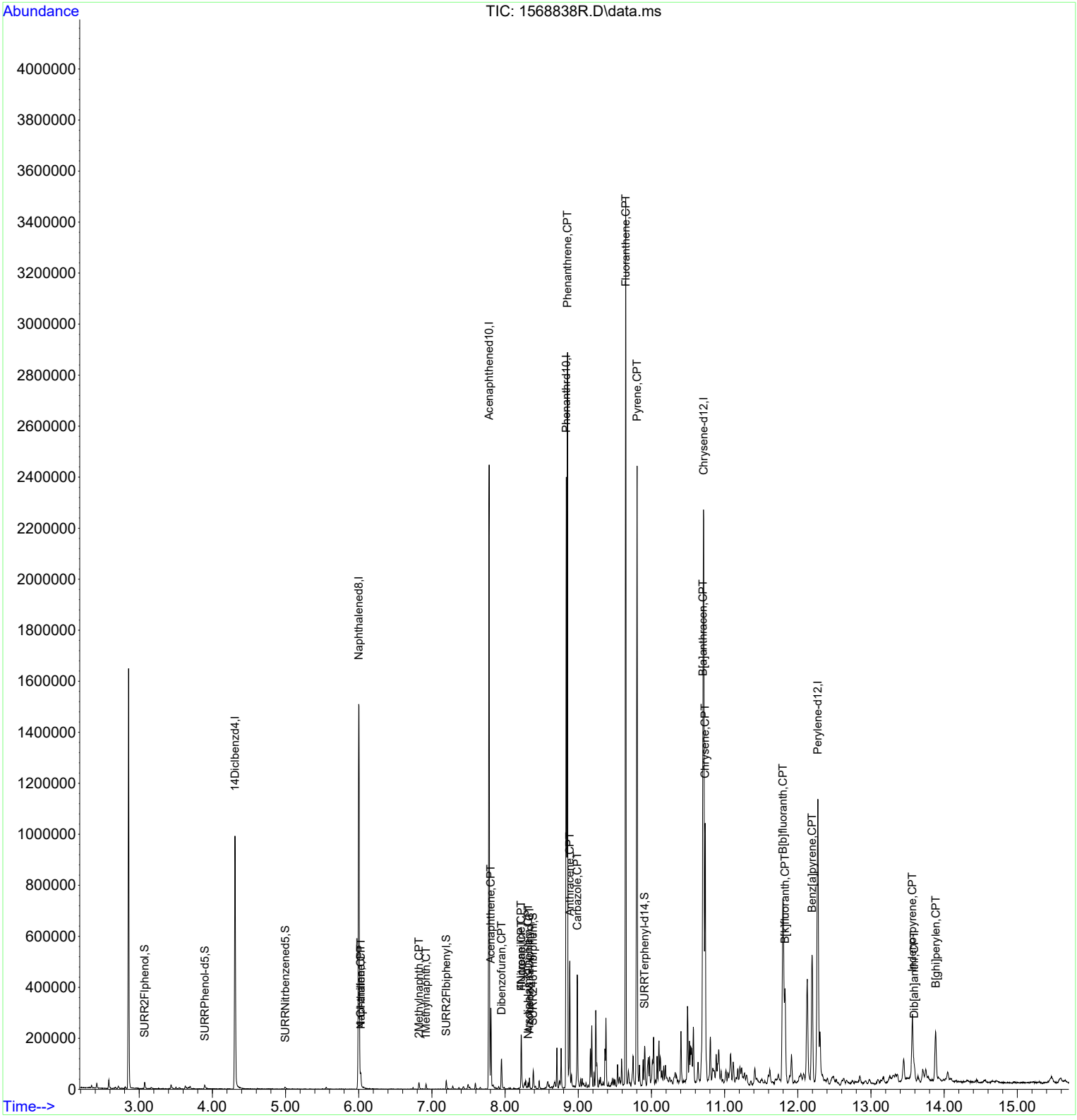
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.310 | 152 | 152337 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 749669 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 417344 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 624392 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 553244 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.274 | 264 | 525687 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.073 | 112 | 5795 | 1.58 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.58% | | | |
| 7) SURRPhenol-d5 | 3.898 | 99 | 7159 | 1.62 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.62% | | | |
| 22) SURRNitrbenzened5 | 4.997 | 82 | 3175 | 1.55 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.55% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 9552 | 1.92 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.92% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 2071 | 1.85 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.85% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 12222 | 2.27 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.27% | | | |
| Target Compounds | | | | | | Qvalue |
| 31) Naphthalene | 6.029 | 128 | 19657 | 0.5685 | ug/mL | 95 |
| 32) 4-Cl-aniline | 6.026 | 127 | 1771 | 0.1313 | ug/mL# | 38 |
| 37) 2Methylnaphth | 6.821 | 142 | 7437 | 0.3559 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.921 | 142 | 5437 | 0.2516 | ug/mL | 95 |
| 50) Acenaphthene | 7.804 | 154 | 57897 | 2.8842 | ug/mL | 96 |
| 53) Dibenzofuran | 7.949 | 168 | 41430 | 1.4292 | ug/mL | 95 |
| 58) Fluorene | 8.222 | 166 | 48262 | 2.1779 | ug/mL | 92 |
| 61) 4Nitroaniline | 8.219 | 138 | 521 | 0.4207 | ug/mL# | 50 |
| 65) Ntrsdiphlam&Diphlam | 8.316 | 169 | 777 | 0.0483 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 7212 | 1.2563 | ug/mL# | 1 |
| 70) Phenanthrene | 8.853 | 178 | 709035 | 23.3081 | ug/mL | 99 |
| 71) Anthracene | 8.884 | 178 | 149002 | 4.8143 | ug/mL | 97 |
| 72) Carbazole | 8.987 | 167 | 126219 | 4.7892 | ug/mL | 99 |
| 74) Fluoranthene | 9.649 | 202 | 948180 | 29.5179 | ug/mL | 100 |
| 77) Pyrene | 9.805 | 202 | 726865 | 20.6842 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.748 | 252 | 1123 | Below Cal | # | 23 |
| 82) B[a]anthracen | 10.703 | 228 | 350390 | 10.5195 | ug/mL | 97 |
| 83) Chrysene | 10.734 | 228 | 335901 | 10.7528 | ug/mL | 96 |
| 87) B[b]fluoranth | 11.797 | 252 | 408693 | 14.6766 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.825 | 252 | 141945 | 5.0877 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.197 | 252 | 247831 | 9.6775 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.564 | 276 | 133536 | 4.7145 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.590 | 278 | 30084 | 1.2993 | ug/mL | 97 |
| 92) B[ghi]perylen | 13.885 | 276 | 105357 | 4.7476 | ug/mL | 92 |

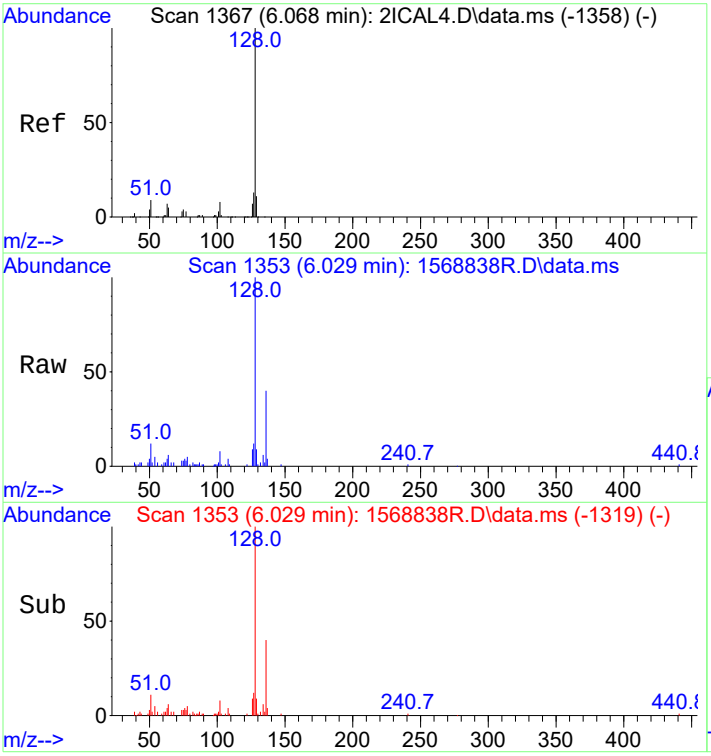
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568838R.D Vial: 24
Acq On : 11 Apr 2025 19:56 Operator: JJY
Sample : 290730,1568838,50 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:24 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

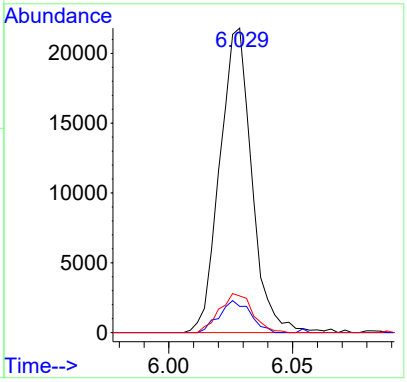


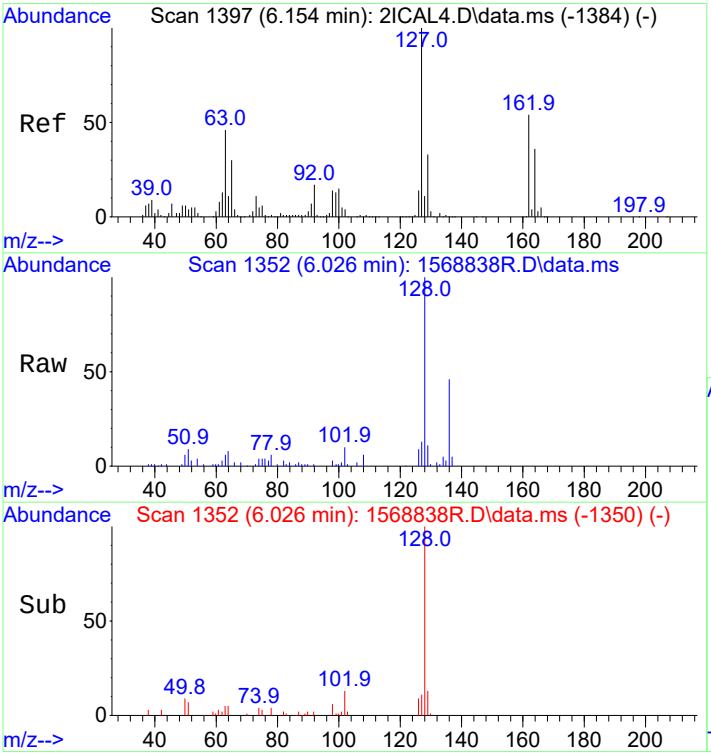



#31
Naphthalene
Concen: 0.57 ug/mL
RT: 6.029 min Scan# 1353
Delta R.T. -0.003 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:128 Resp: 19657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 8.6 | 0.0 | 41.0 |
| 127 | 12.0 | 0.0 | 43.3 |

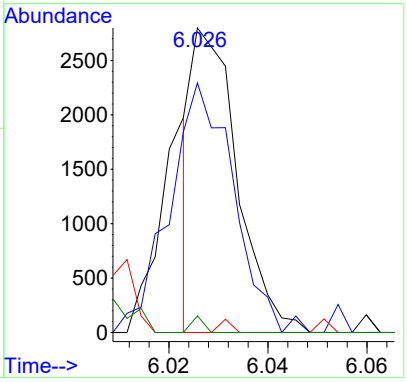


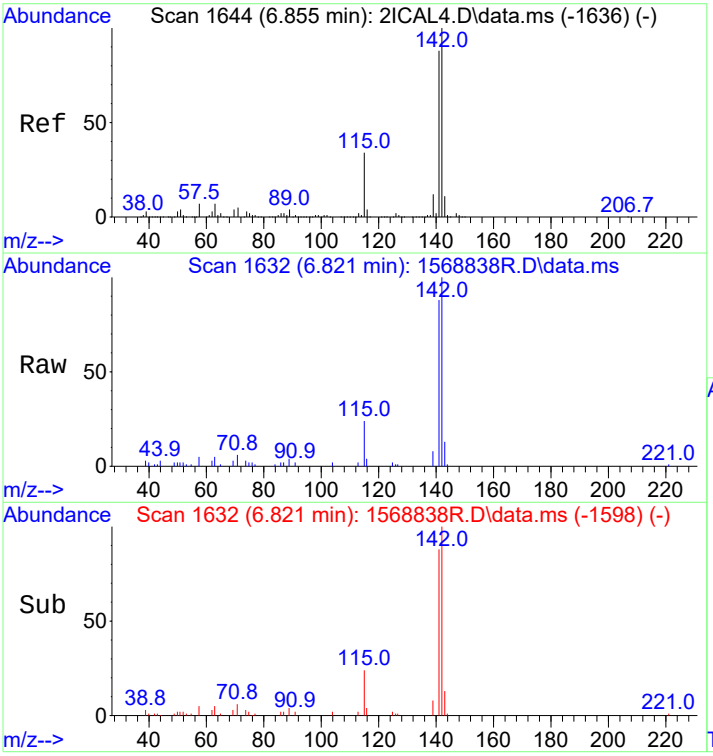




#32
4-Cl-aniline
Concen: 0.13 ug/mL
RT: 6.026 min Scan# 1352
Delta R.T. -0.094 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:127 Resp: 1771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 82.0 | 3.1 | 63.1# |
| 65 | 0.0 | 0.2 | 60.2# |
| 92 | 5.5 | 0.0 | 46.7 |

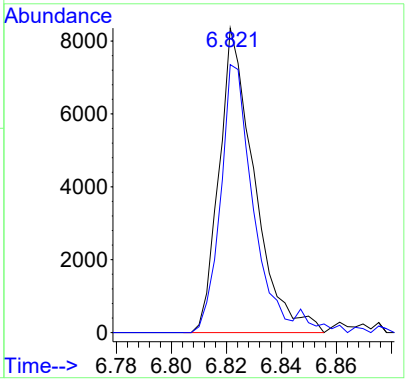


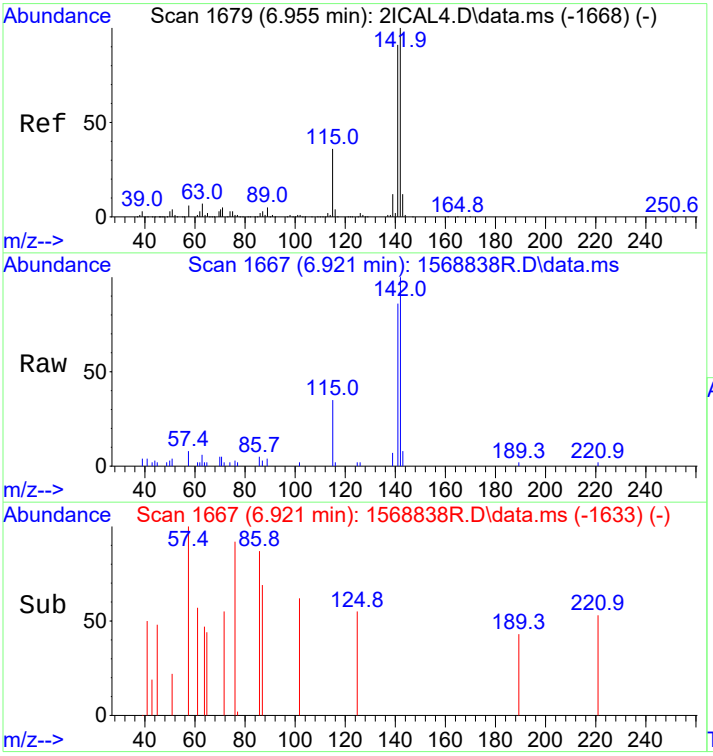



#37
2Methylnaphth
Concen: 0.36 ug/mL
RT: 6.821 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:142 Resp: 7437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.0 | 58.0 | 118.0 |

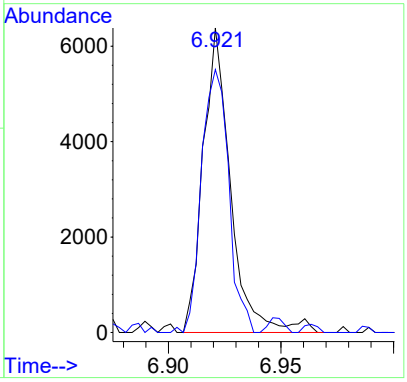


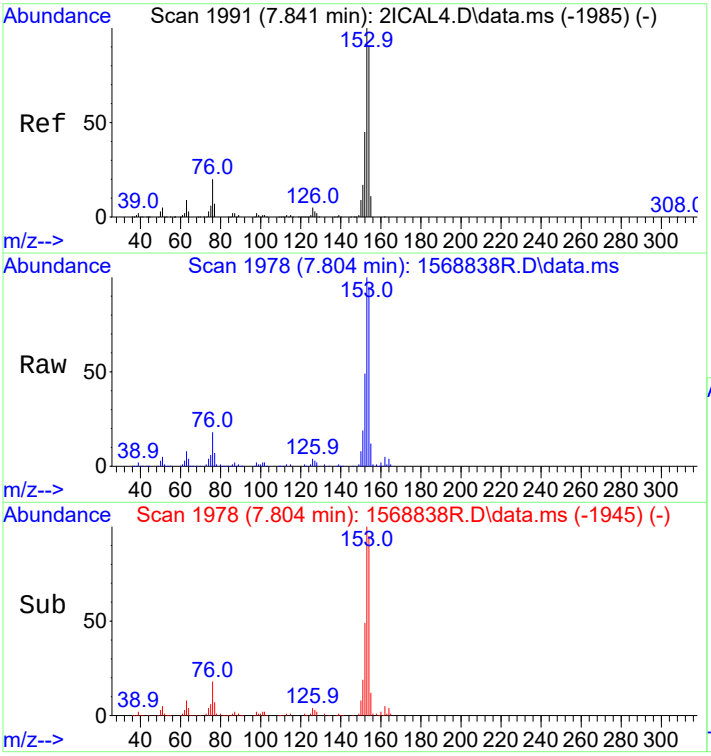




#38
1Methylnaphth
Concen: 0.25 ug/mL
RT: 6.921 min Scan# 1667
Delta R.T. -0.003 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:142 Resp: 5437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.3 | 60.7 | 120.7 |

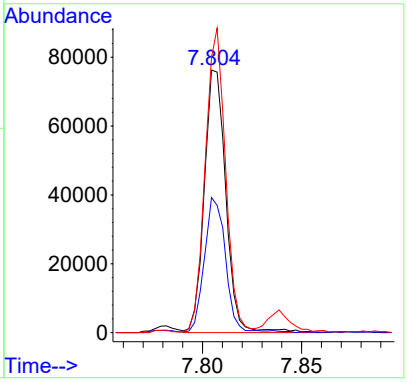


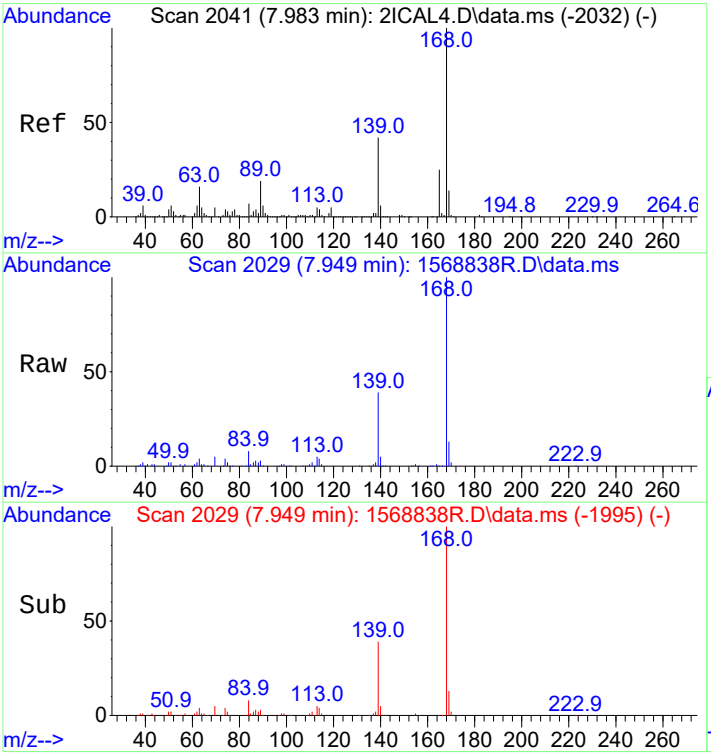



#50
Acenaphthene
Concen: 2.88 ug/mL
RT: 7.804 min Scan# 1978
Delta R.T. -0.006 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:154 Resp: 57897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 51.2 | 20.0 | 80.0 |
| 153 | 104.6 | 80.7 | 140.7 |

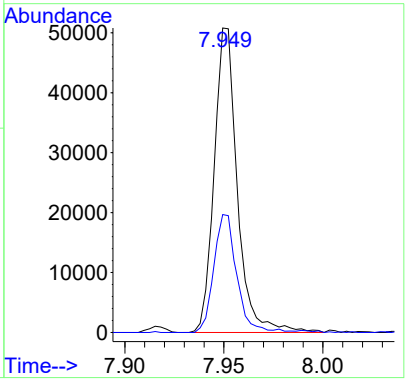


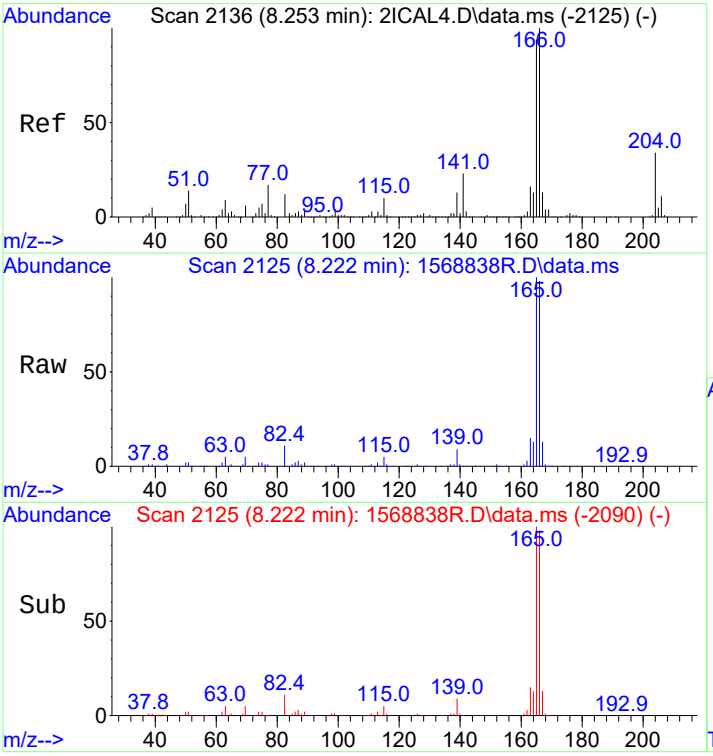




#53
Dibenzofuran
Concen: 1.43 ug/mL
RT: 7.949 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:168 Resp: 41430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 38.7 | 11.9 | 71.9 |

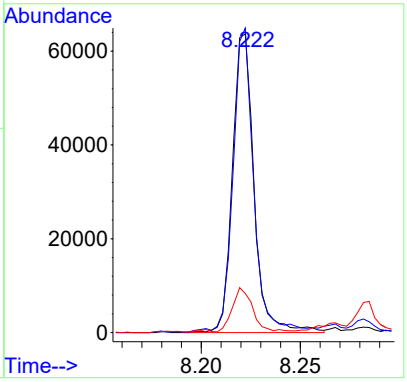


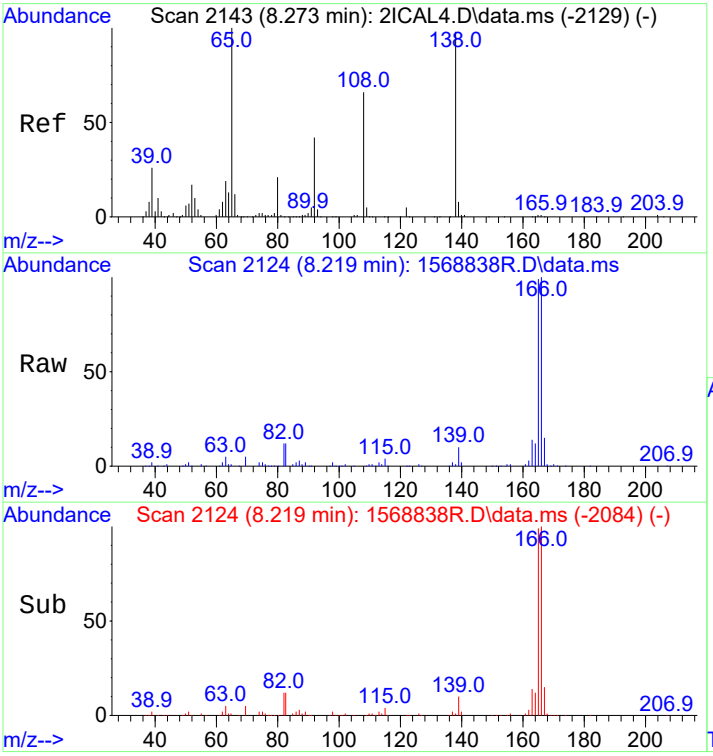



#58
Fluorene
Concen: 2.18 ug/mL
RT: 8.222 min Scan# 2125
Delta R.T. 0.000 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:166 Resp: 48262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 102.0 | 63.6 | 123.6 |
| 167 | 12.9 | 0.0 | 43.3 |

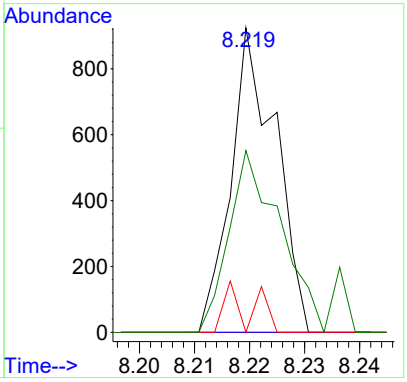


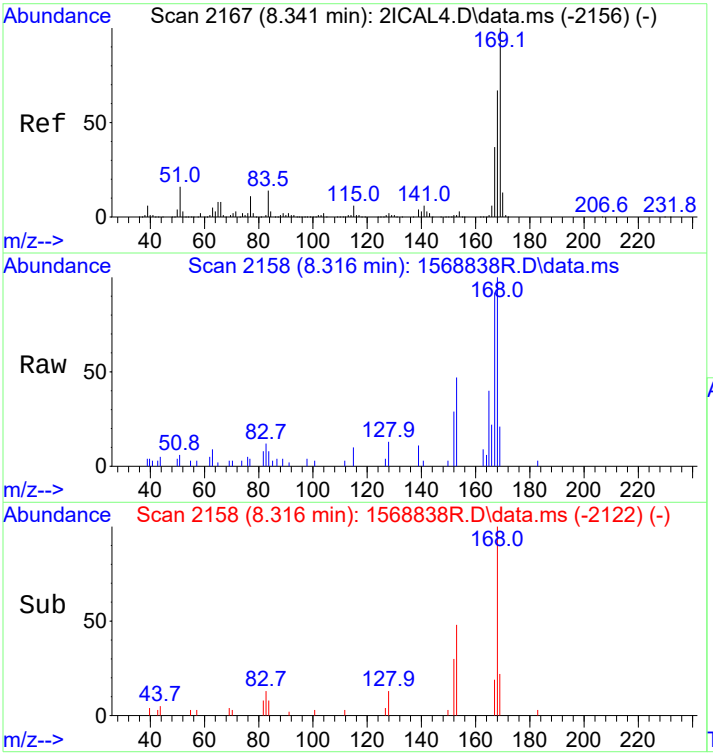




#61
4Nitroaniline
Concen: 0.42 ug/mL
RT: 8.219 min Scan# 2124
Delta R.T. -0.025 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:138 Resp: 521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 25.4 | 36.9 | 96.9# |
| 65 | 59.7 | 71.1 | 131.1# |

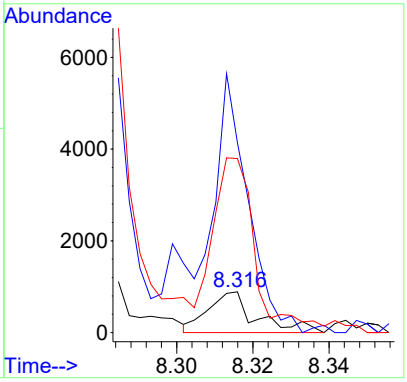


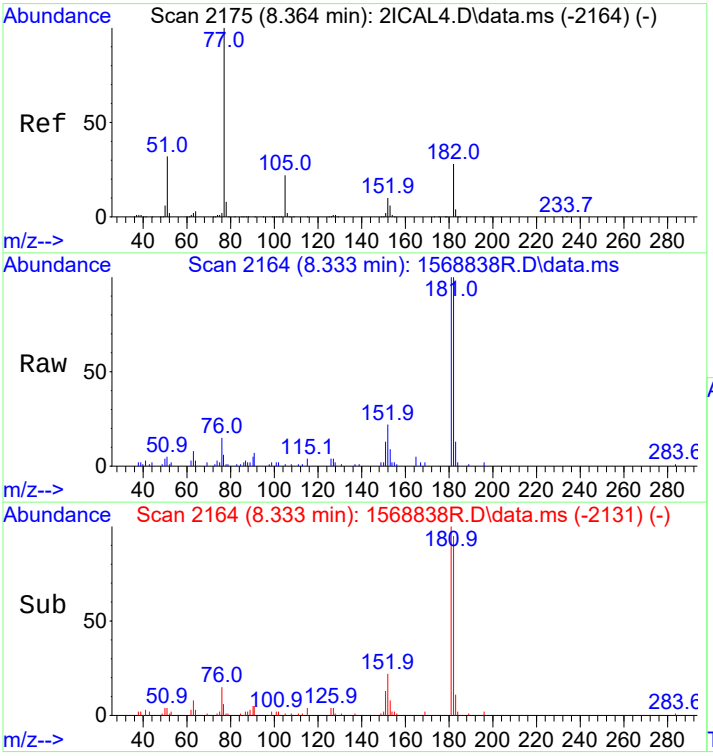



#65
Ntrsdiphlam&Diphlam
Concen: 0.05 ug/mL
RT: 8.316 min Scan# 2158
Delta R.T. 0.003 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:169 Resp: 777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 448.4 | 37.2 | 97.2# |
| 167 | 411.8 | 6.9 | 66.9# |

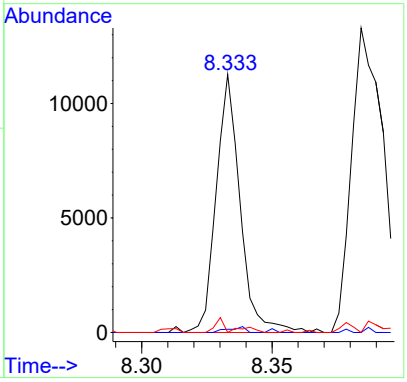


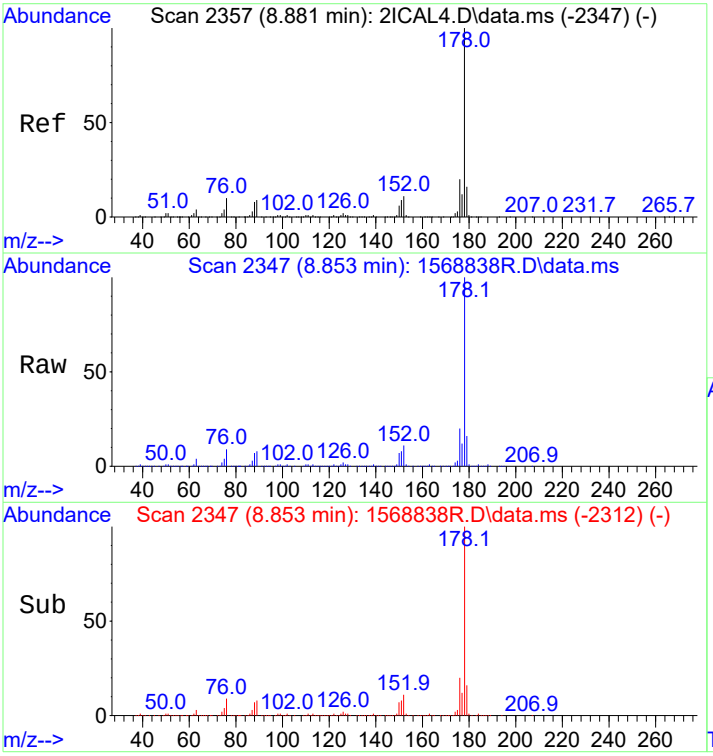




#66
Azobenz&12Diphlhyd
Concen: 1.26 ug/mL
RT: 8.333 min Scan# 2164
Delta R.T. -0.006 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:182 Resp: 7212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 1.2 | 49.9 | 109.9# |
| 77 | 0.0 | 339.9 | 399.9# |

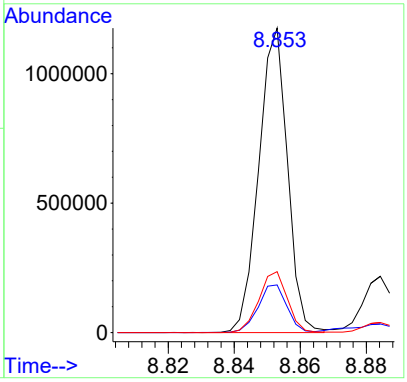


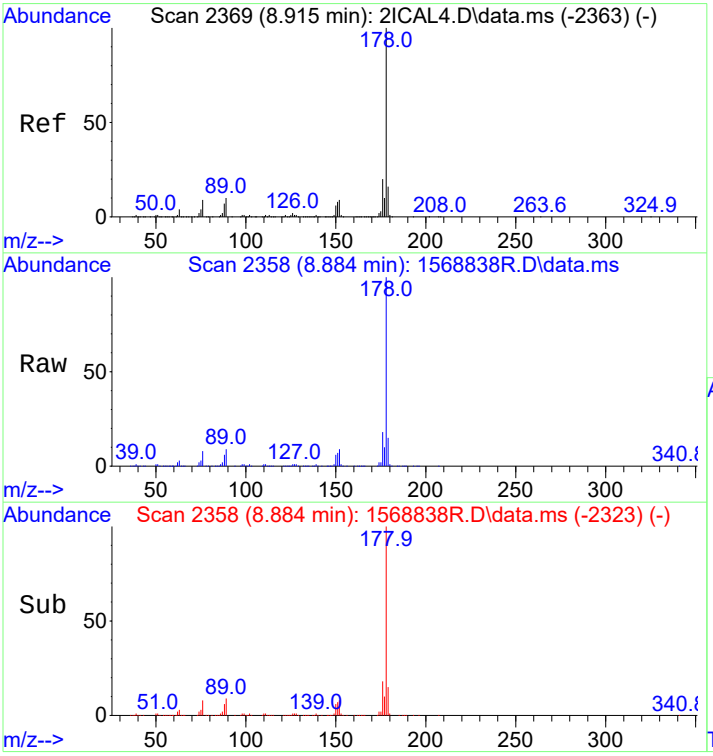



#70
Phenanthrene
Concen: 23.31 ug/mL
RT: 8.853 min Scan# 2347
Delta R.T. 0.000 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:178 Resp: 709035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 15.7 | 0.0 | 45.9 |
| 176 | 20.0 | 0.0 | 50.4 |

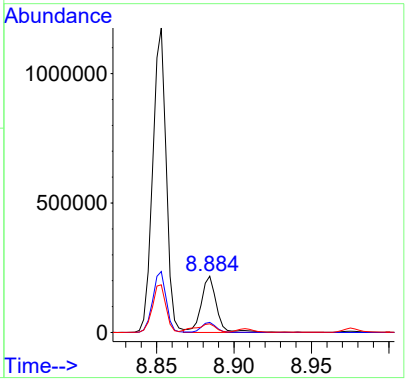


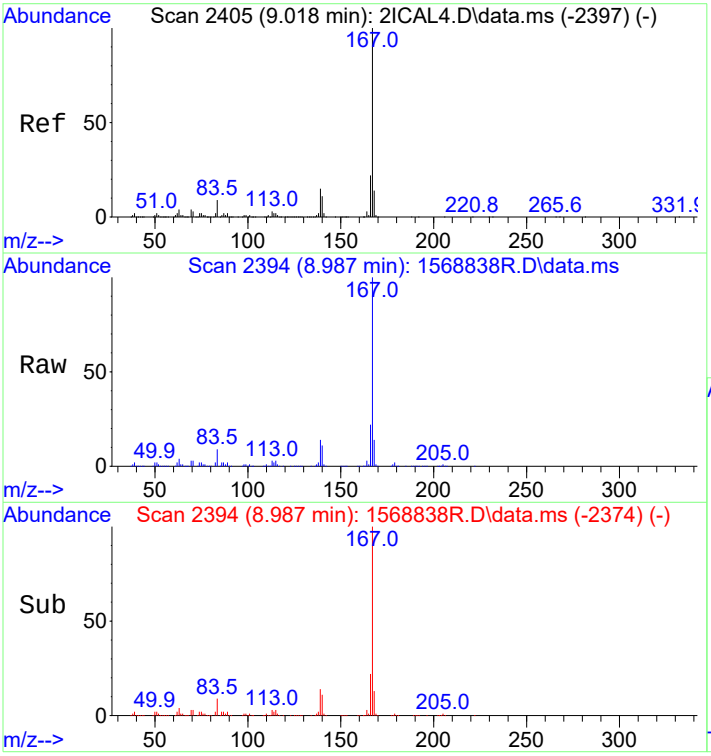




#71
Anthracene
Concen: 4.81 ug/mL
RT: 8.884 min Scan# 2358
Delta R.T. 0.000 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:178 Resp: 149002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 17.9 | 0.0 | 49.5 |
| 179 | 15.3 | 0.0 | 45.9 |

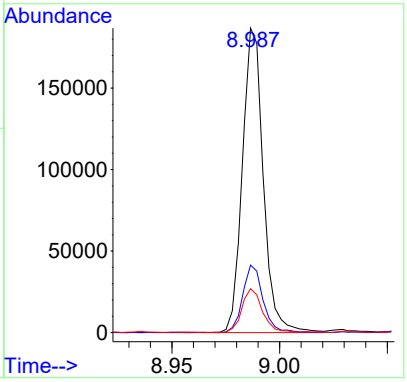


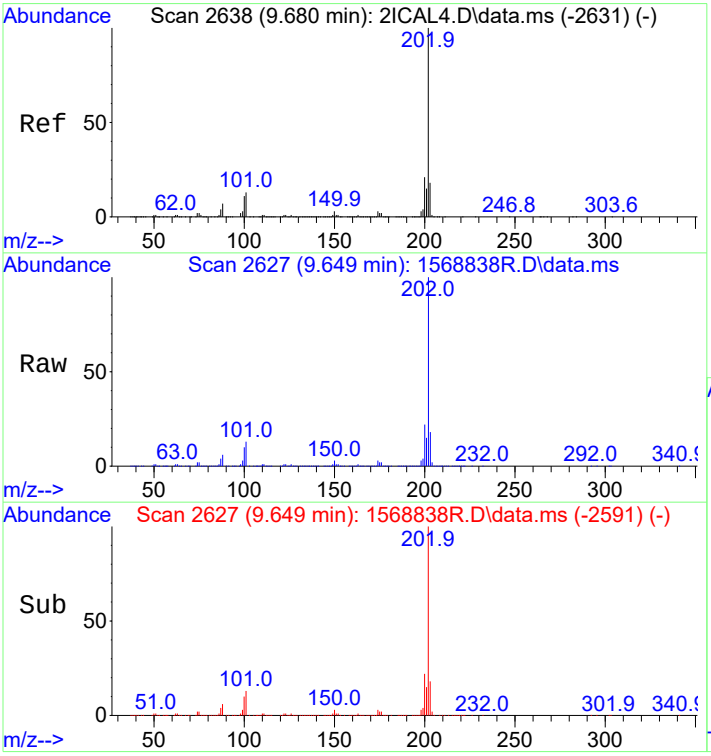



#72
Carbazole
Concen: 4.79 ug/mL
RT: 8.987 min Scan# 2394
Delta R.T. -0.003 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:167 Resp: 126219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.0 | 0.0 | 52.1 |
| 139 | 14.3 | 0.0 | 44.7 |

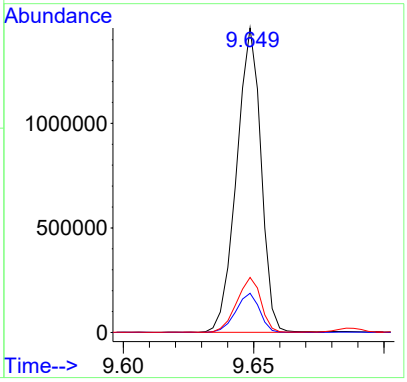


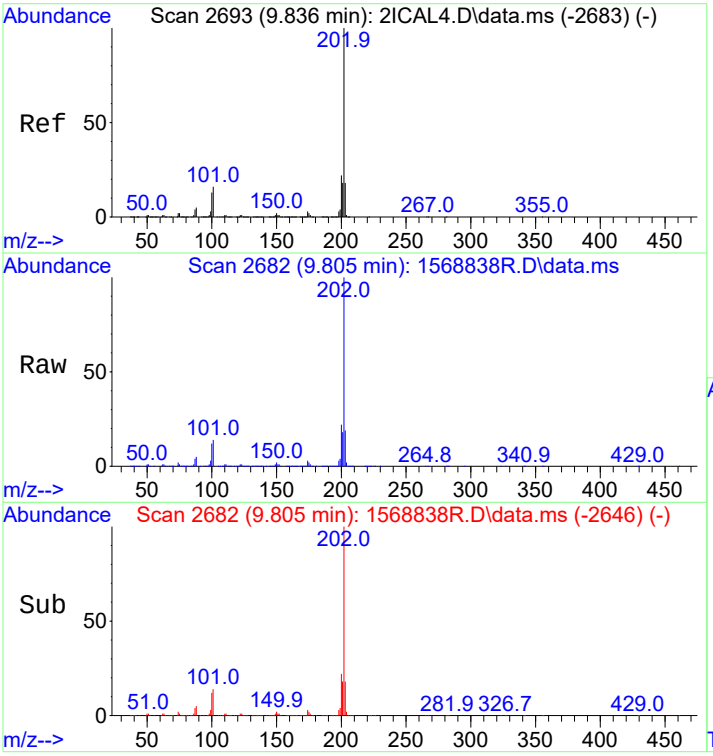




#74
Fluoranthene
Concen: 29.52 ug/mL
RT: 9.649 min Scan# 2627
Delta R.T. 0.003 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:202 Resp: 948180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.9 | 0.0 | 43.0 |
| 203 | 18.0 | 0.0 | 48.2 |

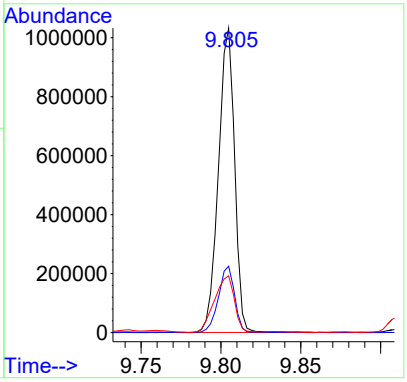


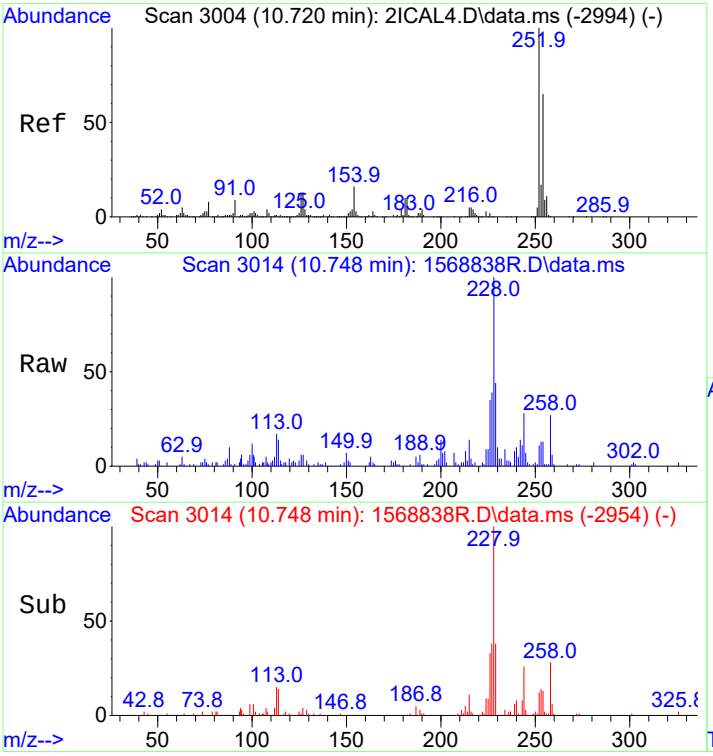



#77
Pyrene
Concen: 20.68 ug/mL
RT: 9.805 min Scan# 2682
Delta R.T. 0.003 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:202 Resp: 726865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.8 | 0.0 | 52.2 |
| 203 | 18.6 | 0.0 | 48.2 |

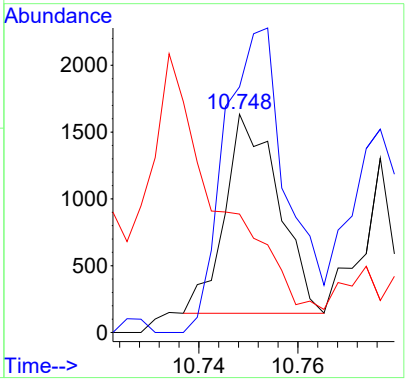


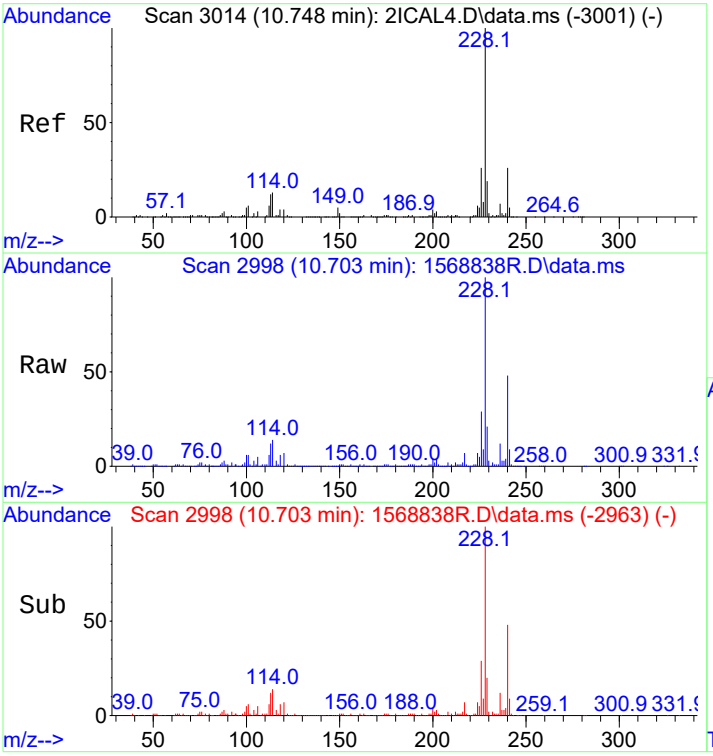




#81
33Diclbnzidin
Concen: Below Cal
RT: 10.748 min Scan# 3014
Delta R.T. 0.071 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:252 Resp: 1123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 123.4 | 34.6 | 94.6# |
| 126 | 47.9 | 0.0 | 42.6# |

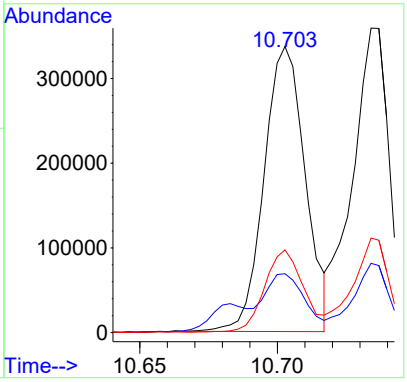


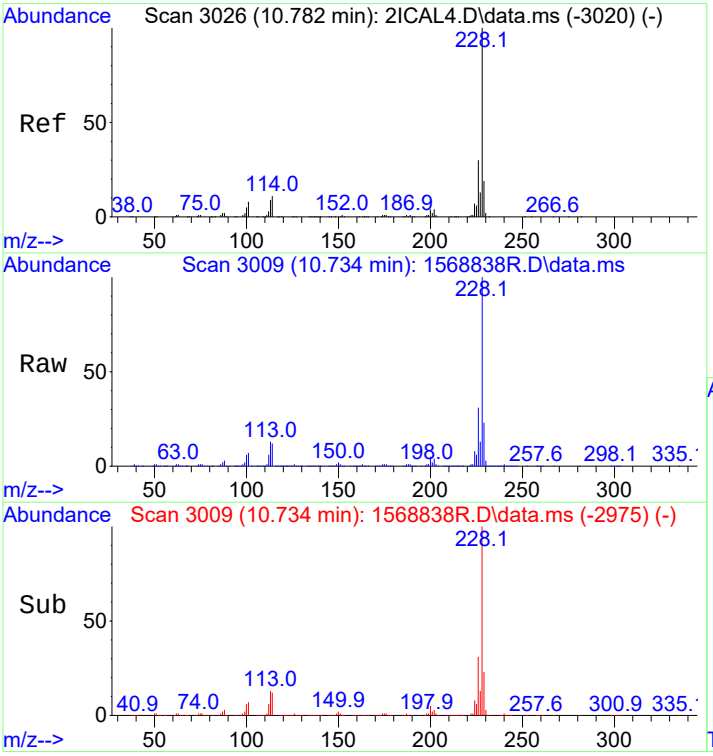



#82
B[a]anthracen
Concen: 10.52 ug/mL
RT: 10.703 min Scan# 2998
Delta R.T. 0.000 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:228 Resp: 350390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 20.1 | 0.0 | 49.4 |
| 226 | 28.9 | 0.0 | 56.5 |

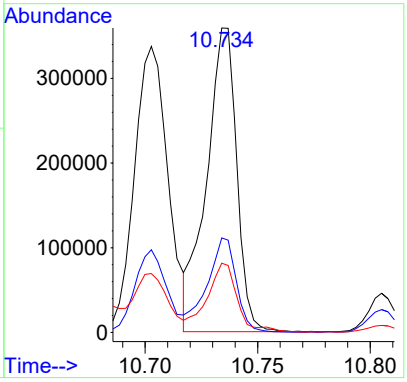


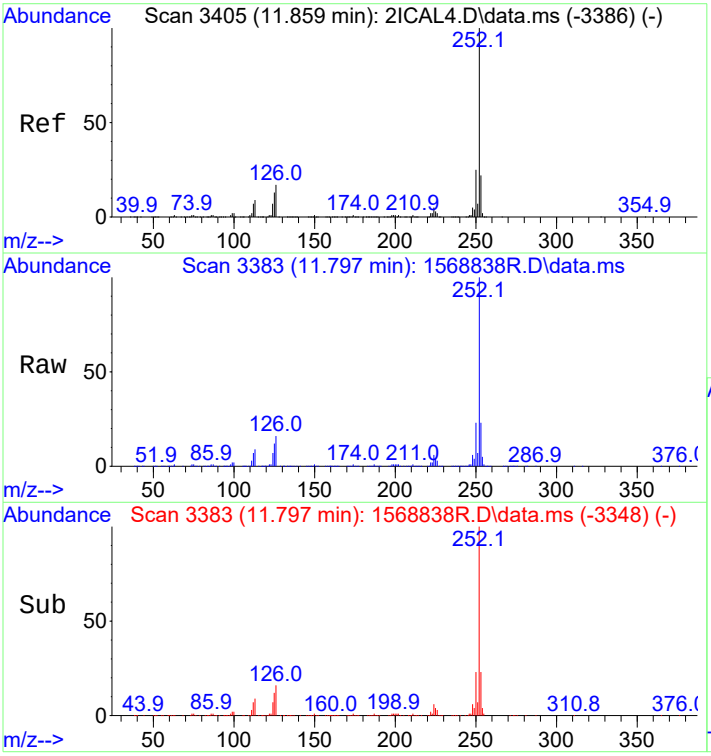




#83
Chrysene
Concen: 10.75 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.003 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:228 Resp: 335901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.0 | 0.0 | 59.9 |
| 229 | 22.5 | 0.0 | 49.5 |

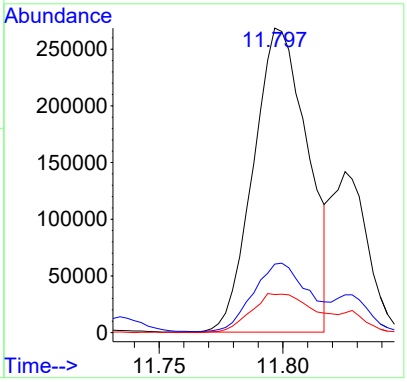


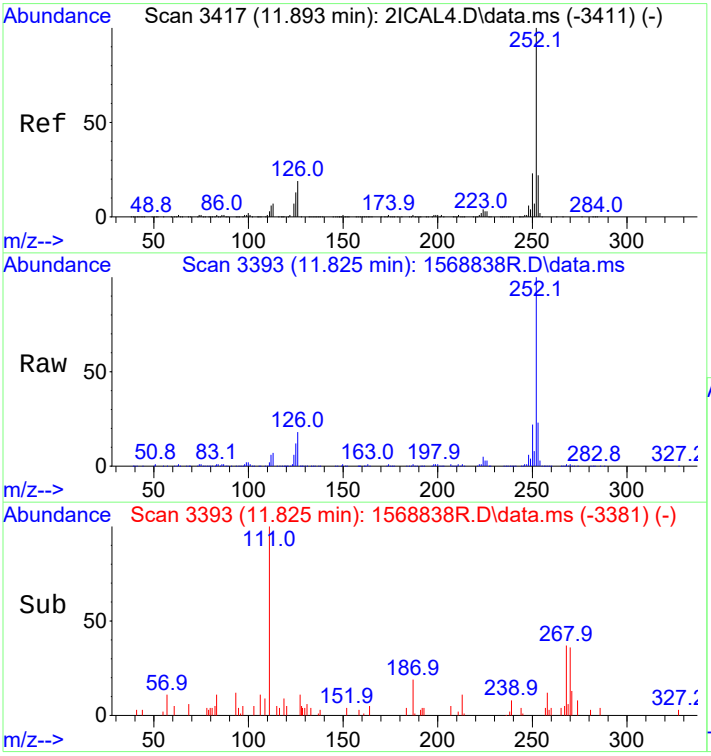



#87
B[b]fluoranth
Concen: 14.68 ug/mL
RT: 11.797 min Scan# 3383
Delta R.T. 0.000 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:252 Resp: 408693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 0.0 | 52.3 |
| 125 | 12.5 | 0.0 | 43.2 |

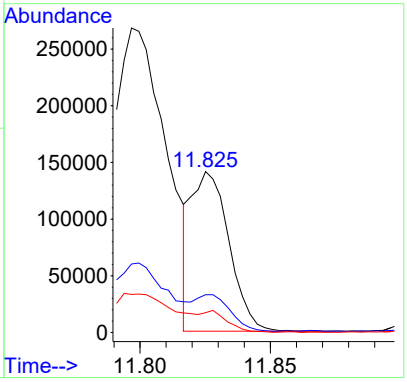


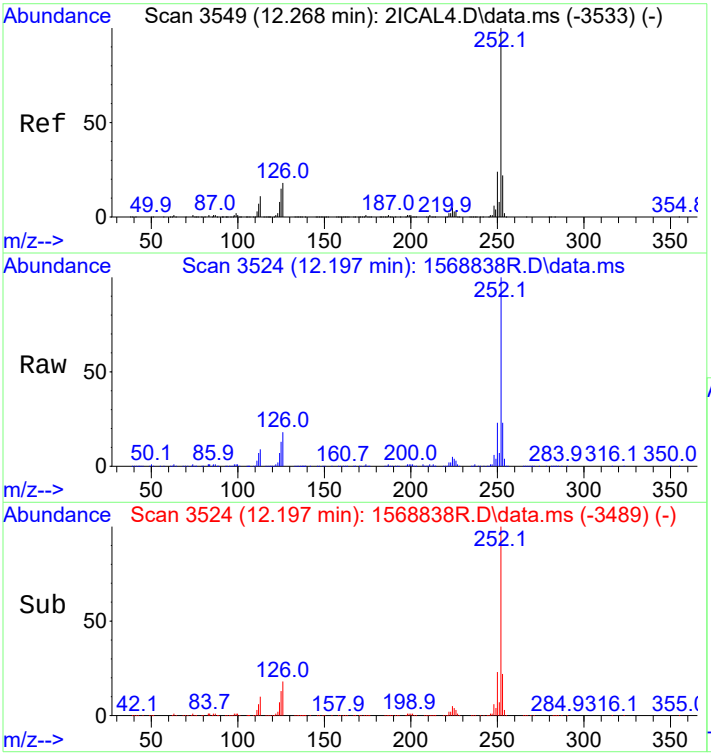




#88
B[k]fluoranth
Concen: 5.09 ug/mL
RT: 11.825 min Scan# 3393
Delta R.T. -0.006 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:252 Resp: 141945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 0.0 | 52.0 |
| 125 | 12.3 | 0.0 | 43.3 |

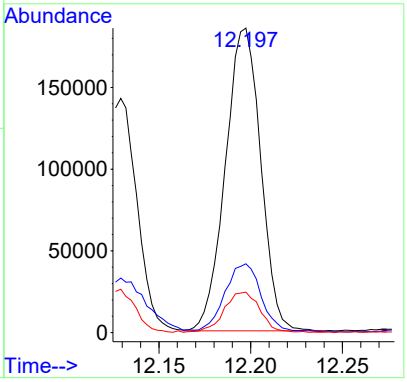


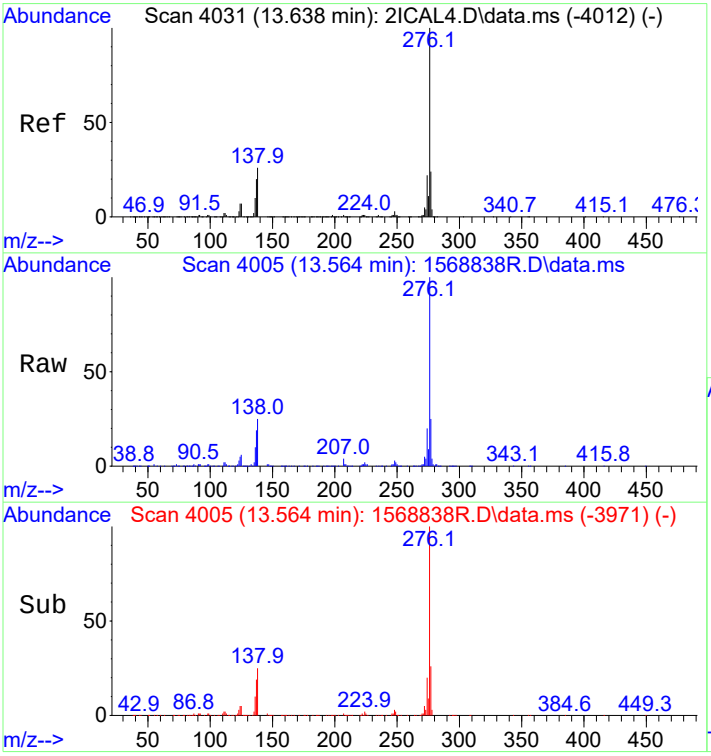



#89
Benz[a]pyrene
Concen: 9.68 ug/mL
RT: 12.197 min Scan# 3524
Delta R.T. 0.000 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:252 Resp: 247831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.5 | 0.0 | 52.3 |
| 125 | 13.3 | 0.0 | 45.1 |

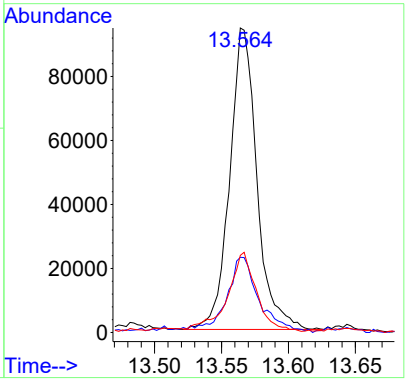


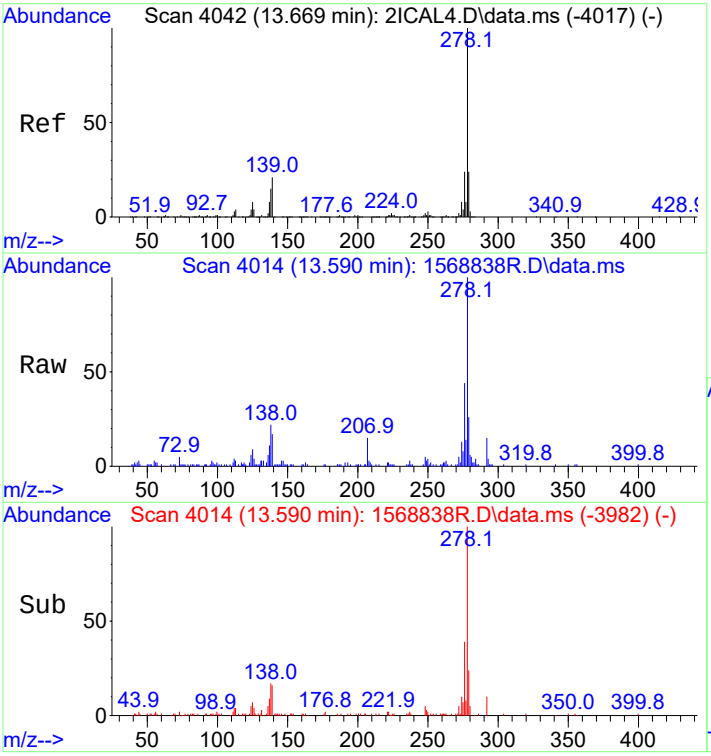




#90
Indeno-pyrene
Concen: 4.71 ug/mL
RT: 13.564 min Scan# 4005
Delta R.T. -0.003 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:276 Resp: 133536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.1 | 0.0 | 55.5 |
| 277 | 25.1 | 0.0 | 54.0 |

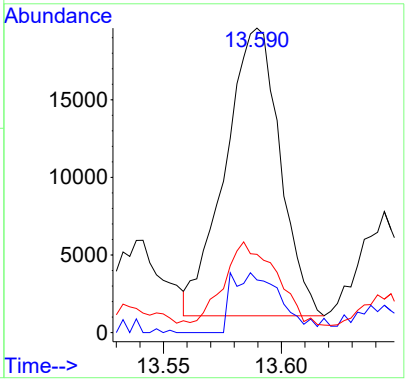


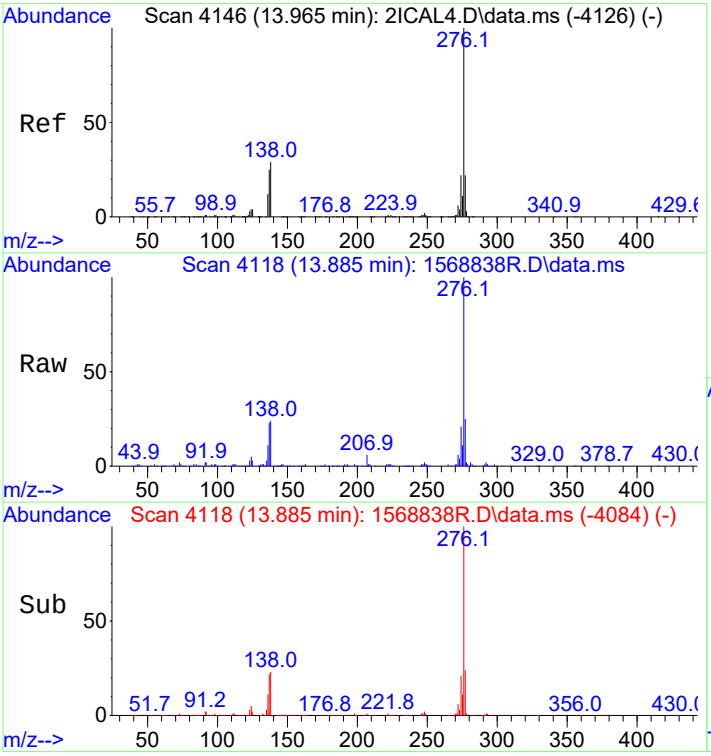



#91
Dib[ah]anthr
Concen: 1.30 ug/mL
RT: 13.590 min Scan# 4014
Delta R.T. -0.008 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:278 Resp: 30084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.3 | 0.0 | 50.9 |
| 279 | 24.6 | 0.0 | 54.4 |

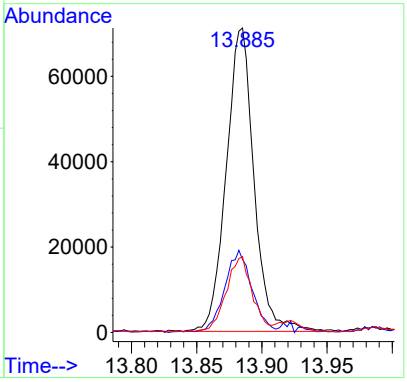



#92
B[ghi]perylen
Concen: 4.75 ug/mL
RT: 13.885 min Scan# 4118
Delta R.T. -0.003 min
Lab File: 1568838R.D
Acq: 11 Apr 2025 19:56

Tgt Ion:276 Resp: 105357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 23.8 | 0.0 | 59.0 |
| 277 | 24.7 | 0.0 | 52.3 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041425\1568841R.D Vial: 11
Acq On : 14 Apr 2025 14:45 Operator: JJY
Sample : 290730,1568841,100 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:30:38 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

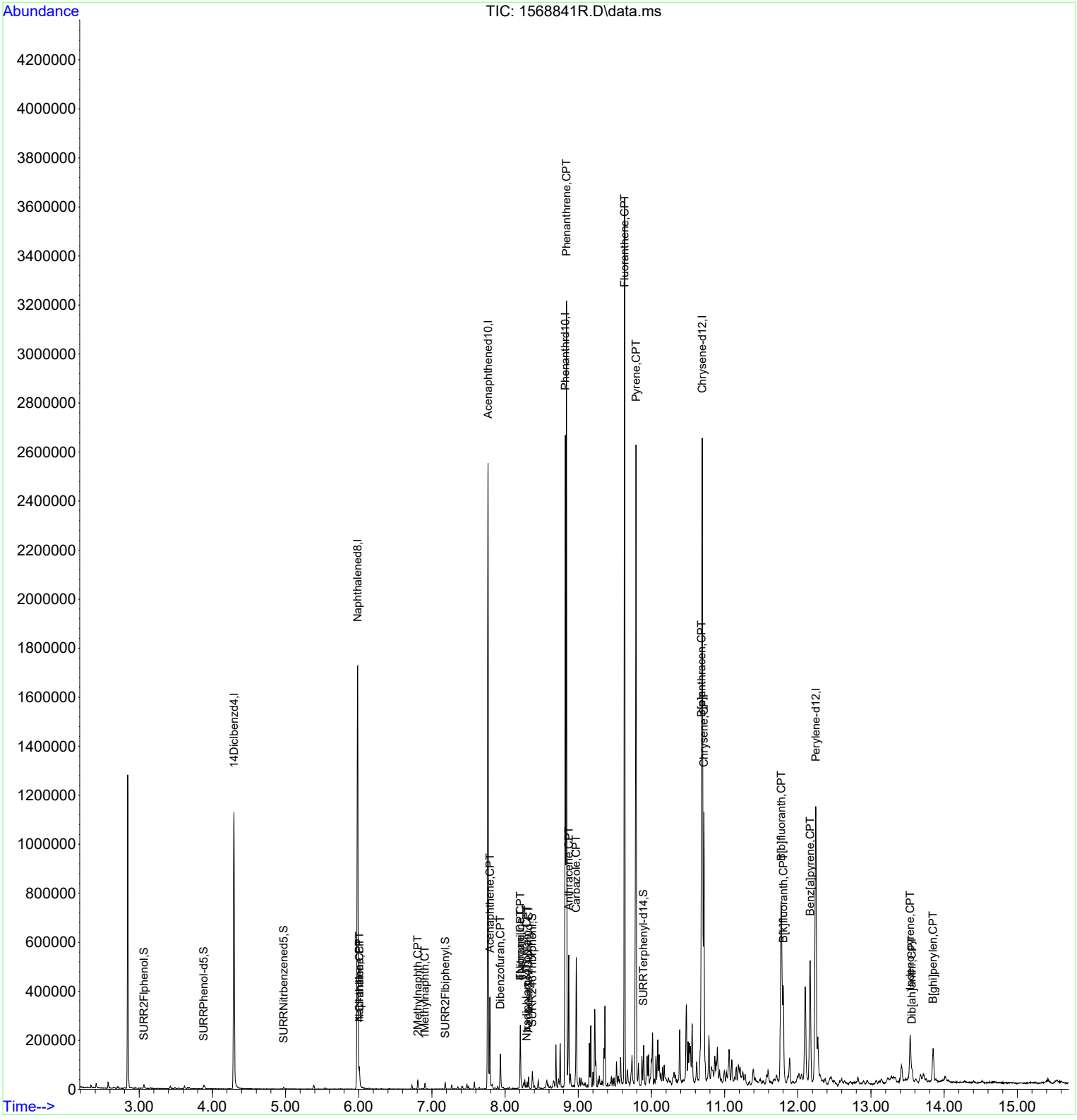
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.295 | 152 | 172991 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 5.983 | 136 | 834564 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.767 | 164 | 459638 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.822 | 188 | 679118 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.694 | 240 | 623956 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.246 | 264 | 548486 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.065 | 112 | 4387 | 1.05 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.05% | | | |
| 7) SURRPhenol-d5 | 3.880 | 99 | 4978 | 0.99 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 0.99% | | | |
| 22) SURRNitrbenzened5 | 4.974 | 82 | 2208 | 0.97 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 0.97% | | | |
| 44) SURR2Flbiphenyl | 7.182 | 172 | 7163 | 1.31 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.31% | | | |
| 62) SURR246Tribrphenl | 8.373 | 330 | 1500 | 1.22 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.22% | | | |
| 78) SURRTerphenyl-d14 | 9.890 | 244 | 8309 | 1.37 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 1.37% | | | |
| Target Compounds | | | | | | Qvalue |
| 31) Naphthalene | 6.009 | 128 | 30011 | 0.7797 | ug/mL | 98 |
| 32) 4-Cl-aniline | 6.009 | 127 | 3034 | 0.2020 | ug/mL# | 44 |
| 37) 2Methylnaphth | 6.807 | 142 | 8961 | 0.3852 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.904 | 142 | 5864 | 0.2437 | ug/mL | 89 |
| 50) Acenaphthene | 7.793 | 154 | 65713 | 2.9723 | ug/mL | 96 |
| 53) Dibenzofuran | 7.935 | 168 | 48519 | 1.5197 | ug/mL | 97 |
| 58) Fluorene | 8.208 | 166 | 55006 | 2.2538 | ug/mL | 97 |
| 61) 4Nitroaniline | 8.208 | 138 | 573 | 0.4206 | ug/mL# | 42 |
| 65) Ntrsdiphlam&Diphlam | 8.296 | 169 | 713 | 0.0407 | ug/mL# | 1 |
| 66) Azobenz&12Diphlhyd | 8.322 | 182 | 8711 | 1.3952 | ug/mL# | 1 |
| 70) Phenanthrene | 8.839 | 178 | 772254 | 23.3406 | ug/mL | 99 |
| 71) Anthracene | 8.870 | 178 | 154813 | 4.5989 | ug/mL | 99 |
| 72) Carbazole | 8.972 | 167 | 142143 | 4.9588 | ug/mL | 99 |
| 74) Fluoranthene | 9.634 | 202 | 1014283 | 29.0313 | ug/mL | 99 |
| 77) Pyrene | 9.791 | 202 | 775908 | 19.5776 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.734 | 252 | 1502 | Below Cal | # | 6 |
| 82) B[a]anthracen | 10.683 | 228 | 369023 | 9.8234 | ug/mL | 98 |
| 83) Chrysene | 10.717 | 228 | 354050 | 10.0494 | ug/mL | 97 |
| 87) B[b]fluoranth | 11.774 | 252 | 411791 | 14.1732 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.802 | 252 | 148855 | 5.1136 | ug/mL | 96 |
| 89) Benz[a]pyrene | 12.169 | 252 | 238639 | 8.9313 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.536 | 276 | 98230 | 3.3239 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.558 | 278 | 22590 | 0.9351 | ug/mL | 94 |
| 92) B[ghi]perylen | 13.848 | 276 | 72203 | 3.1184 | ug/mL | 95 |

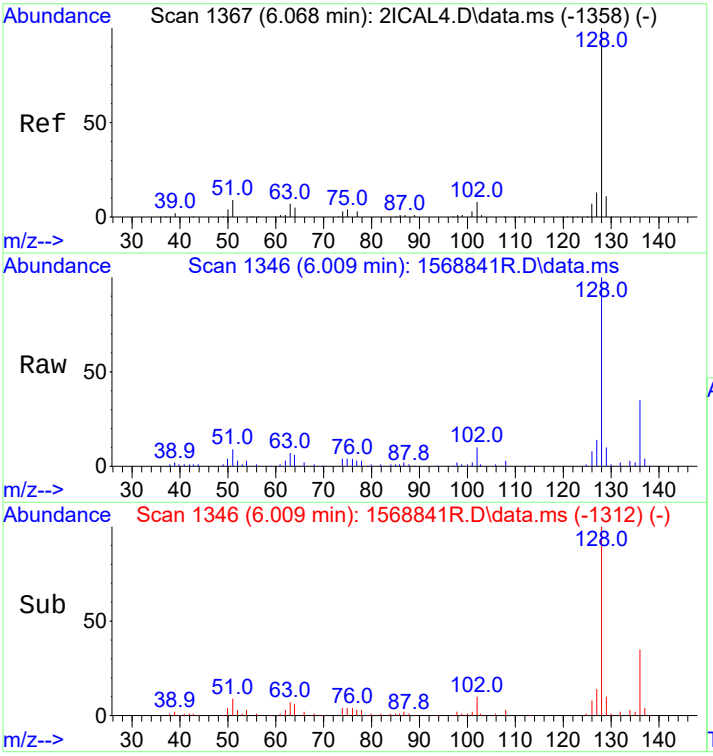
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041425\1568841R.D Vial: 11
Acq On : 14 Apr 2025 14:45 Operator: JJY
Sample : 290730,1568841,100 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:30:38 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

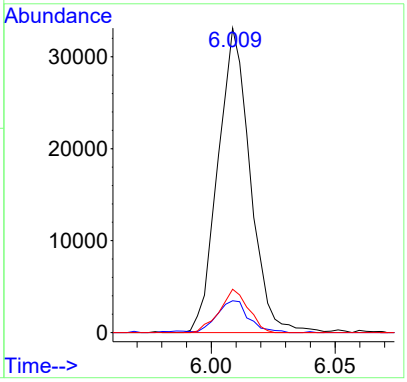


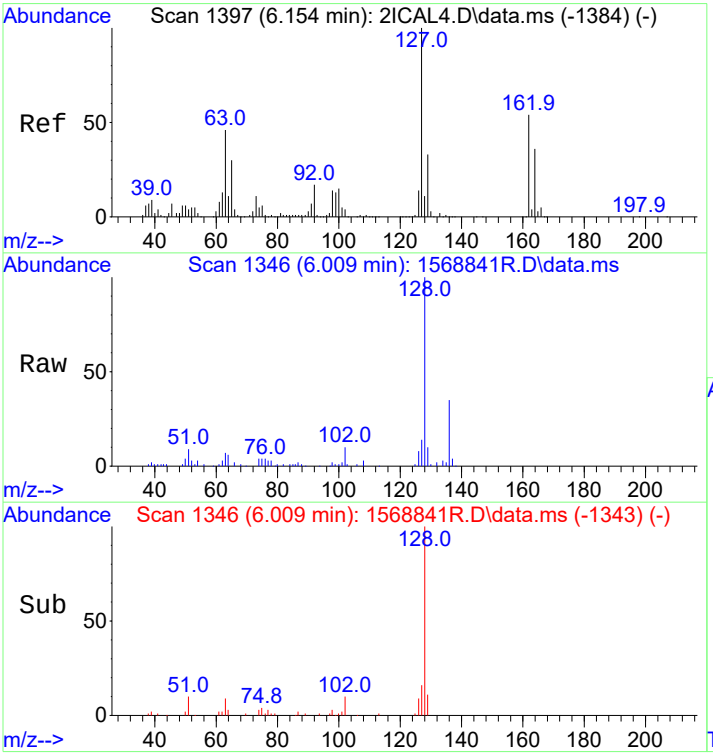



#31
Naphthalene
Concen: 0.78 ug/mL
RT: 6.009 min Scan# 1346
Delta R.T. -0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:128 Resp: 30011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.5 | 0.0 | 41.0 |
| 127 | 14.3 | 0.0 | 43.3 |

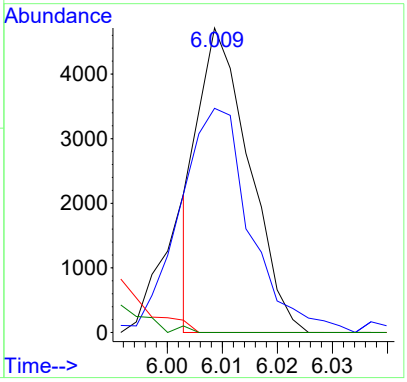


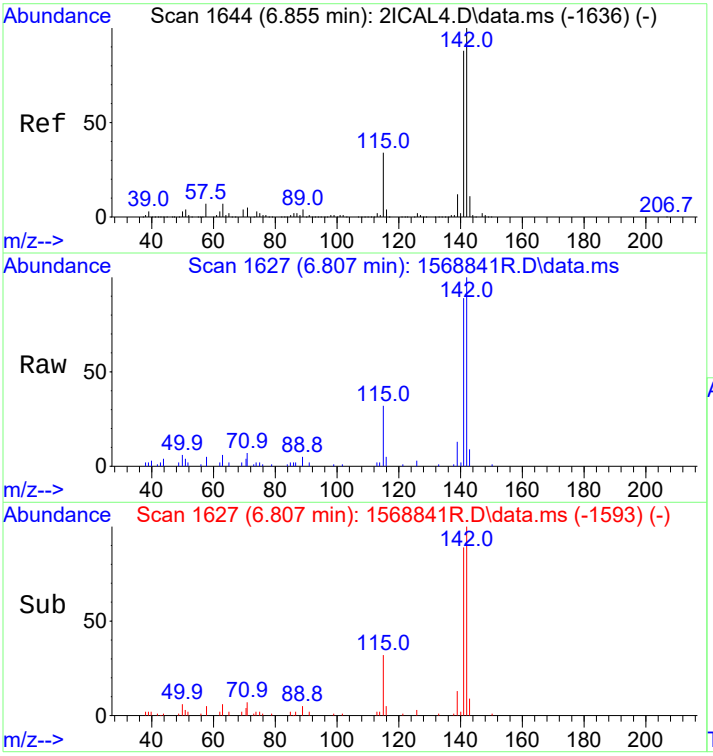




#32
4-Cl-aniline
Concen: 0.20 ug/mL
RT: 6.009 min Scan# 1346
Delta R.T. -0.091 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:127 Resp: 3034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 69.8 | 3.1 | 63.1# |
| 65 | 0.0 | 0.2 | 60.2# |
| 92 | 0.0 | 0.0 | 46.7 |

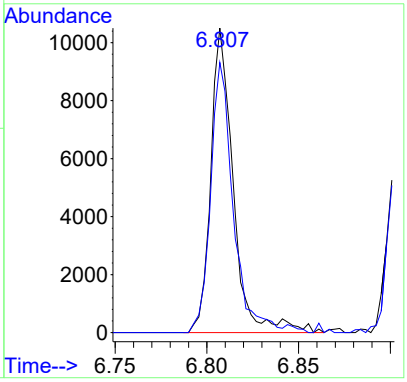


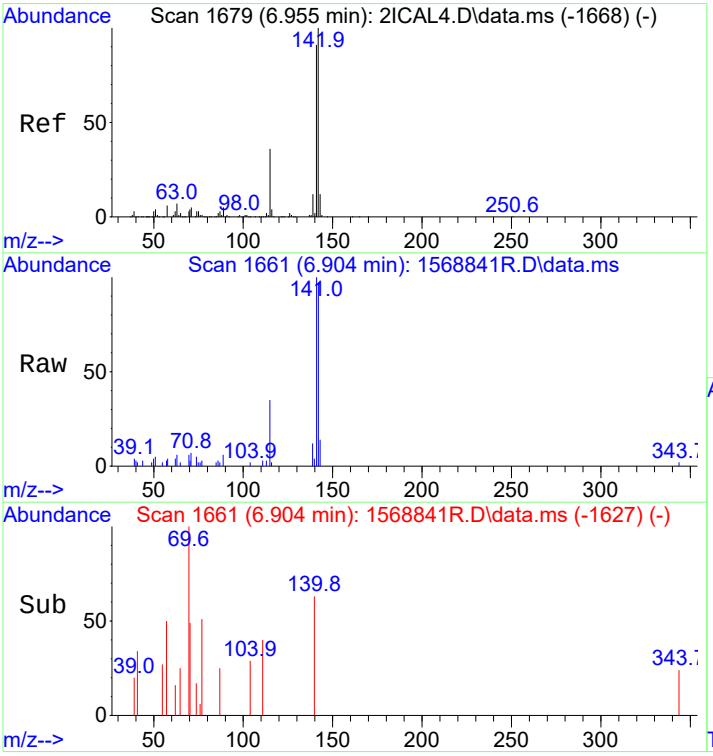



#37
2Methylnaphth
Concen: 0.39 ug/mL
RT: 6.807 min Scan# 1627
Delta R.T. -0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:142 Resp: 8961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.7 | 58.0 | 118.0 |

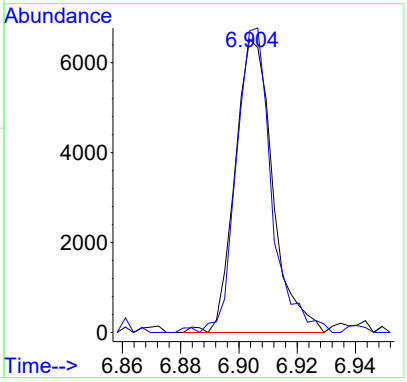


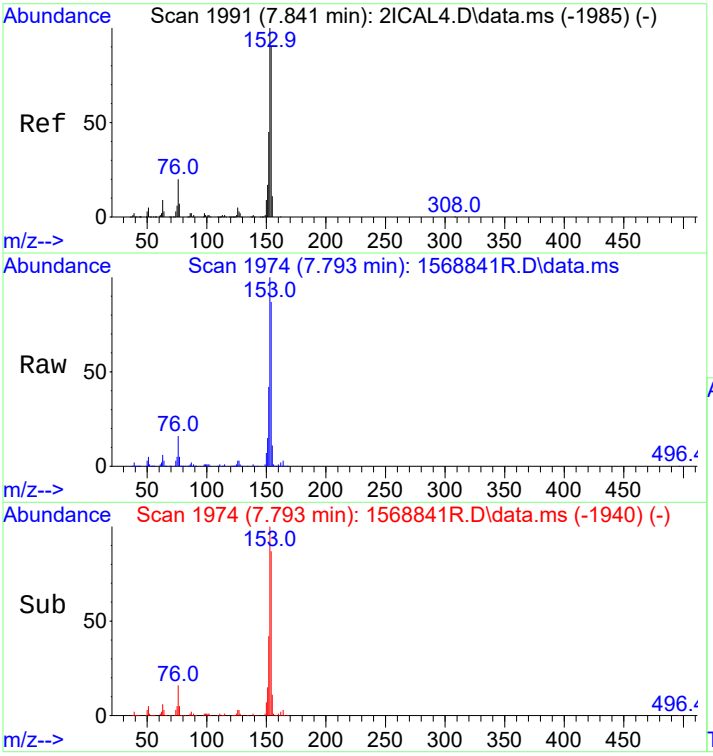




#38
1Methylnaphth
Concen: 0.24 ug/mL
RT: 6.904 min Scan# 1661
Delta R.T. -0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:142 Resp: 5864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 101.3 | 60.7 | 120.7 |

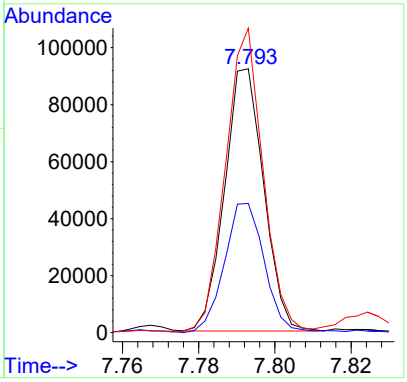


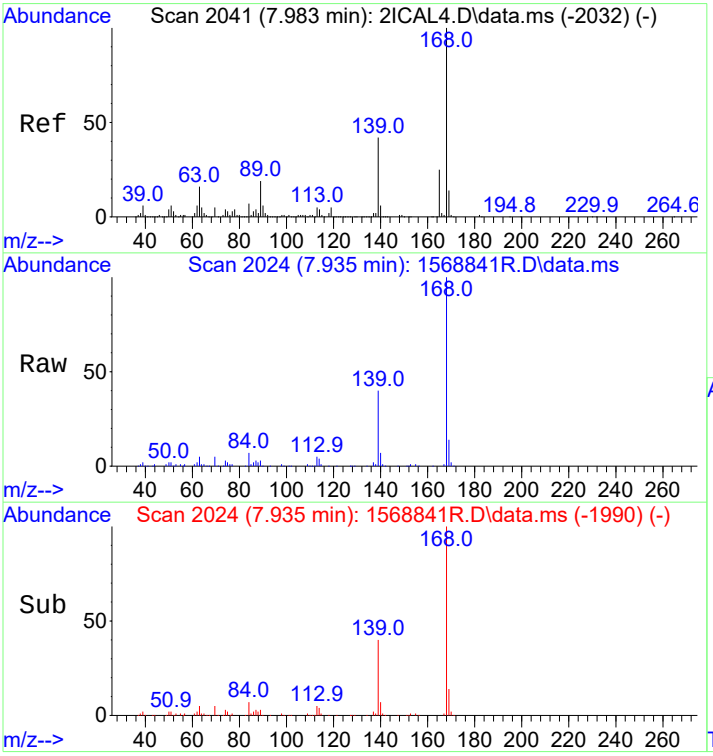



#50
Acenaphthene
Concen: 2.97 ug/mL
RT: 7.793 min Scan# 1974
Delta R.T. -0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:154 Resp: 65713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 152 | 48.7 | 20.0 | 80.0 |
| 153 | 115.6 | 80.7 | 140.7 |

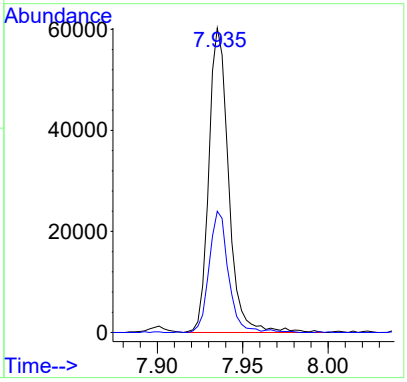


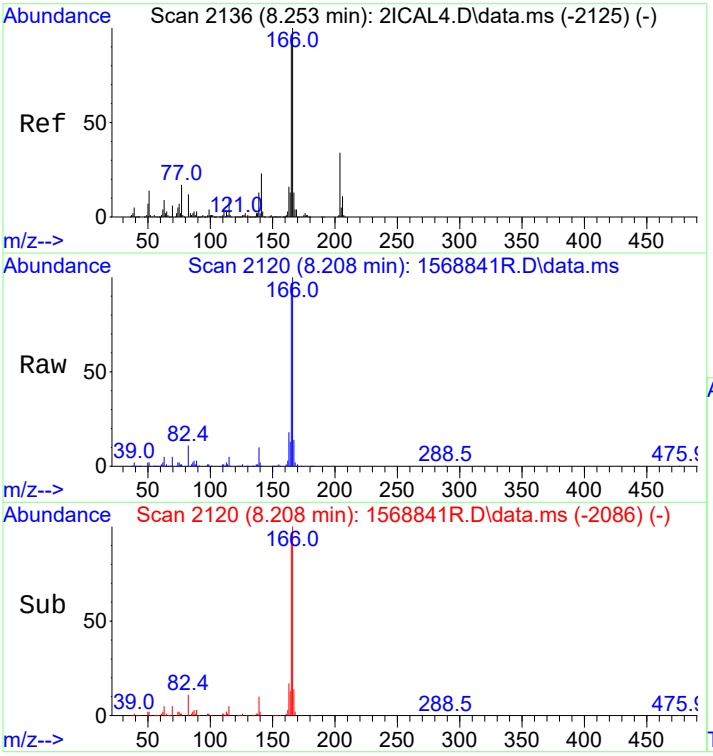




#53
Dibenzofuran
Concen: 1.52 ug/mL
RT: 7.935 min Scan# 2024
Delta R.T. -0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:168 Resp: 48519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.8 | 11.9 | 71.9 |

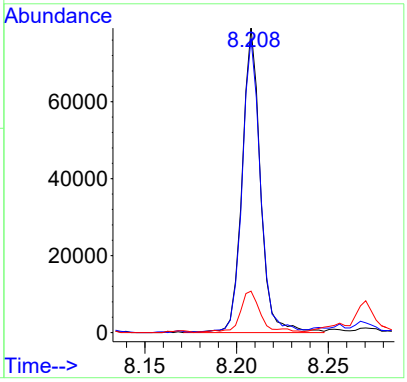


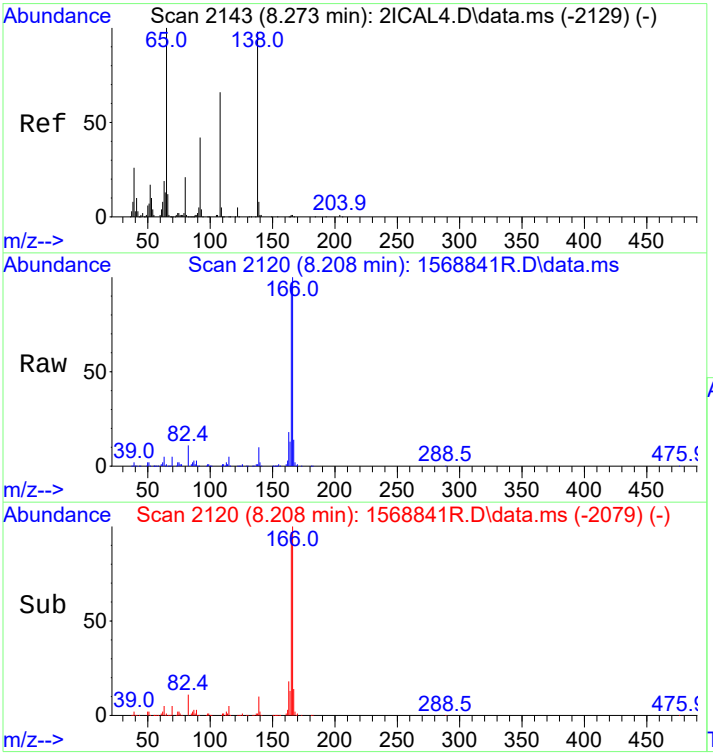



#58
Fluorene
Concen: 2.25 ug/mL
RT: 8.208 min Scan# 2120
Delta R.T. -0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:166 Resp: 55006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.2 | 63.6 | 123.6 |
| 167 | 12.8 | 0.0 | 43.3 |

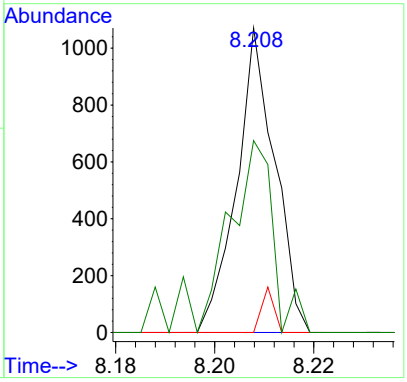


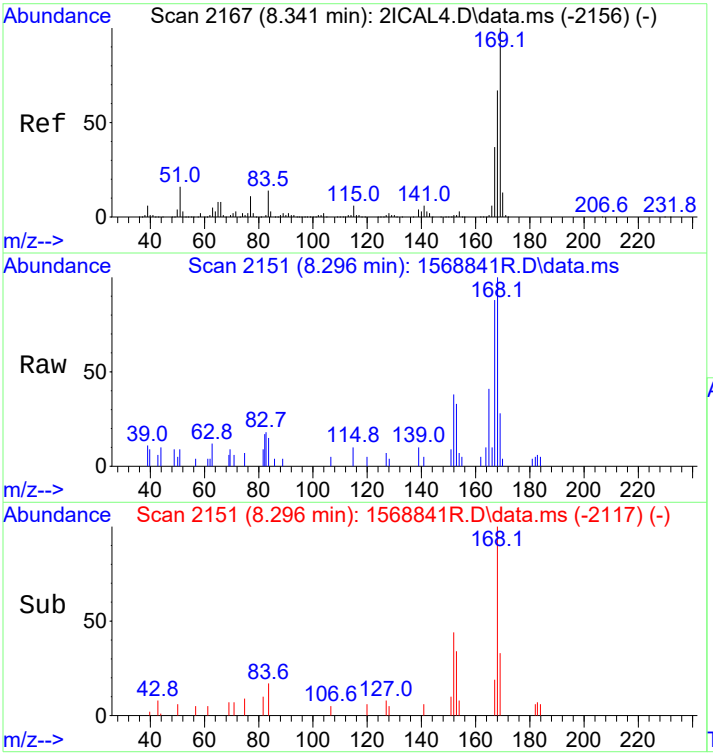




#61
4Nitroaniline
Concen: 0.42 ug/mL
RT: 8.208 min Scan# 2120
Delta R.T. -0.023 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:138 Resp: 573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 0.0 | 12.7 | 72.7# |
| 108 | 0.0 | 36.9 | 96.9# |
| 65 | 63.0 | 71.1 | 131.1# |

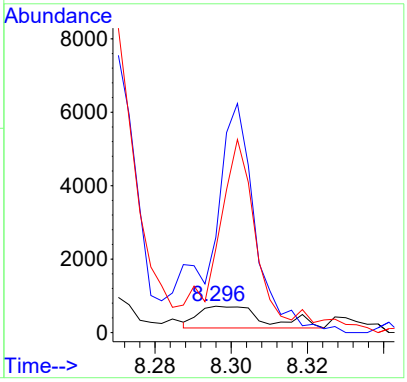


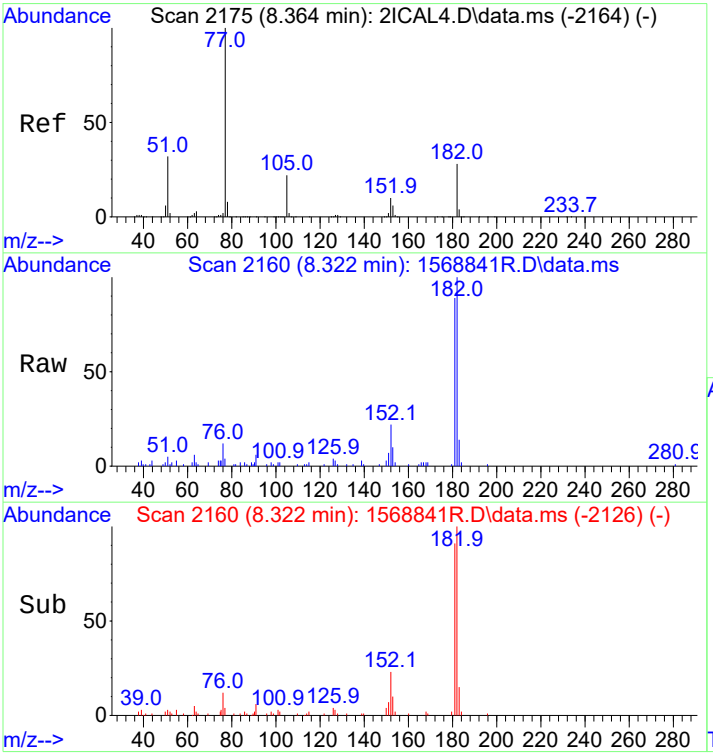



#65
Ntrsdiphlam&Diphlam
Concen: 0.04 ug/mL
RT: 8.296 min Scan# 2151
Delta R.T. -0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:169 Resp: 713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 418.5 | 37.2 | 97.2# |
| 167 | 326.2 | 6.9 | 66.9# |

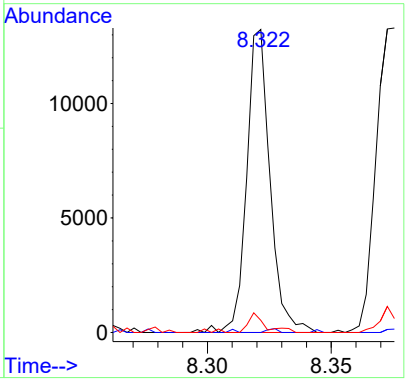


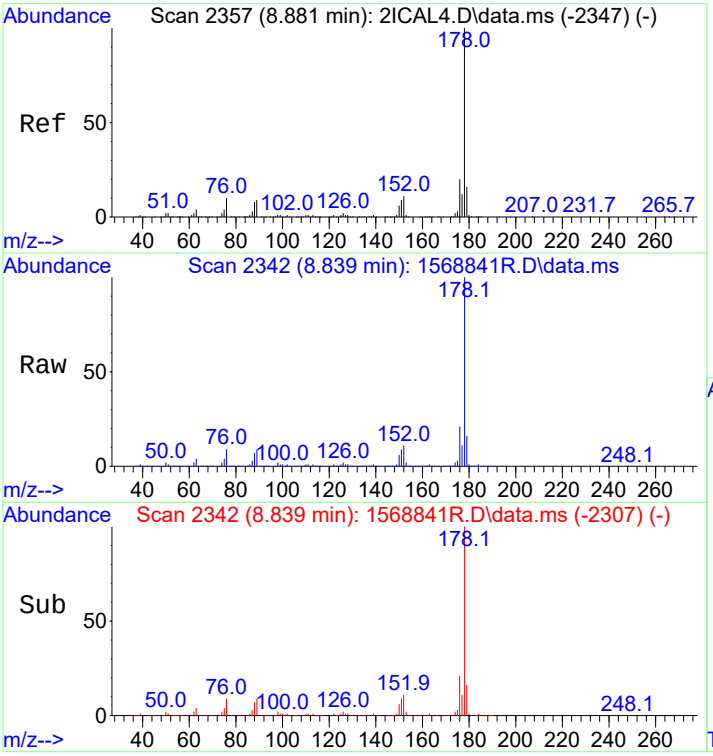




#66
Azobenz&12Diphlhyd
Concen: 1.40 ug/mL
RT: 8.322 min Scan# 2160
Delta R.T. -0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:182 Resp: 8711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 182 | 100 | | |
| 105 | 0.0 | 49.9 | 109.9# |
| 77 | 4.0 | 339.9 | 399.9# |

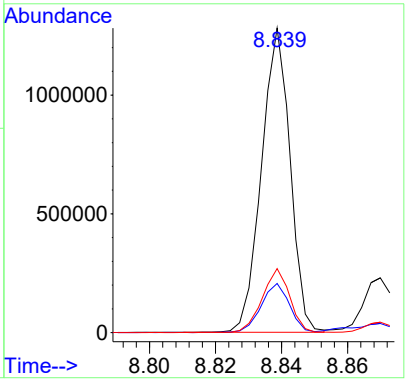


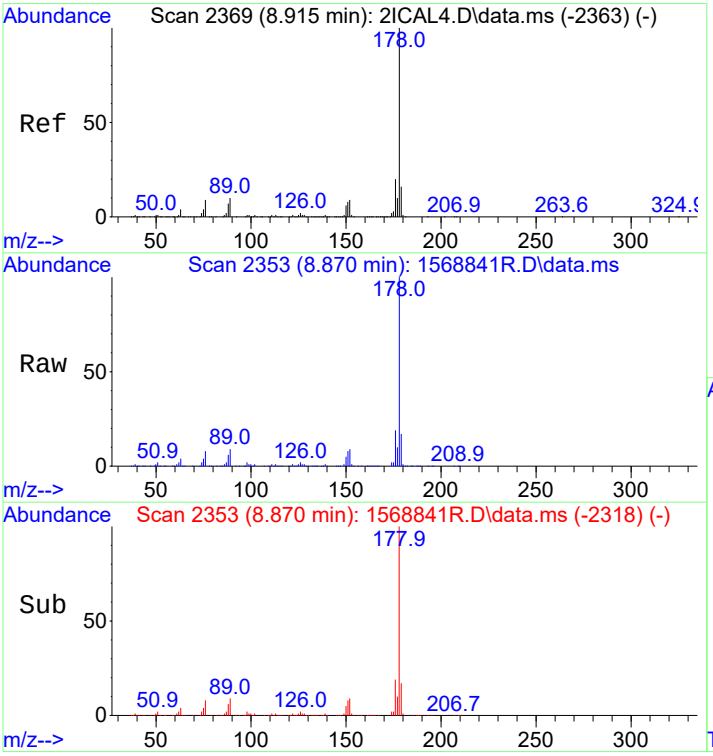



#70
Phenanthrene
Concen: 23.34 ug/mL
RT: 8.839 min Scan# 2342
Delta R.T. 0.000 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:178 Resp: 772254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 179 | 16.1 | 0.0 | 45.9 |
| 176 | 21.0 | 0.0 | 50.4 |

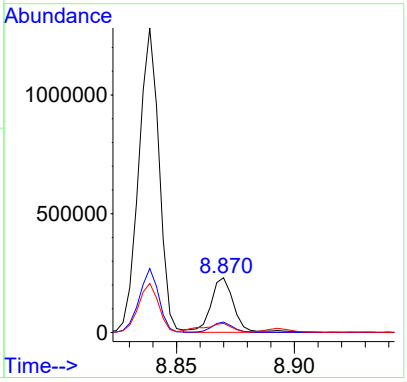


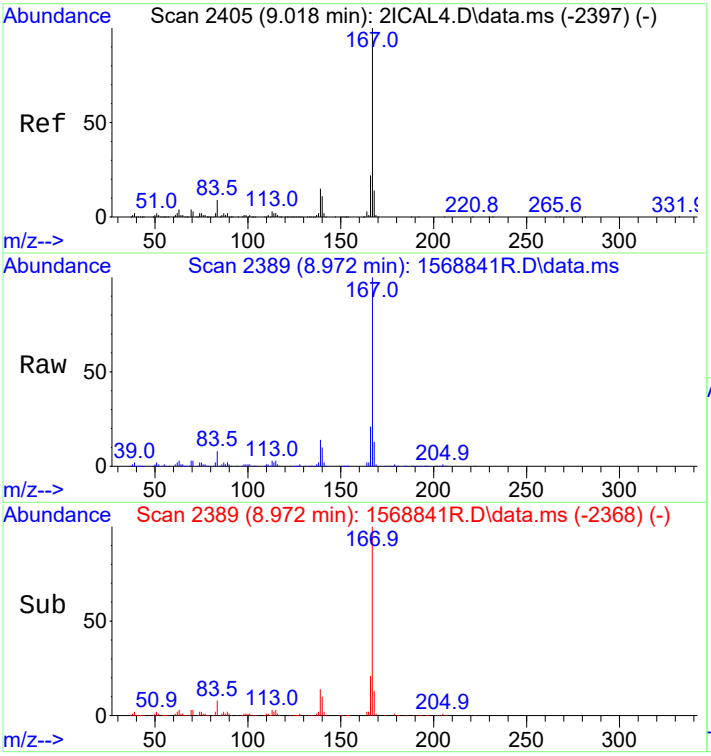




#71
Anthracene
Concen: 4.60 ug/mL
RT: 8.870 min Scan# 2353
Delta R.T. 0.000 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:178 Resp: 154813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.0 | 0.0 | 49.5 |
| 179 | 16.3 | 0.0 | 45.9 |

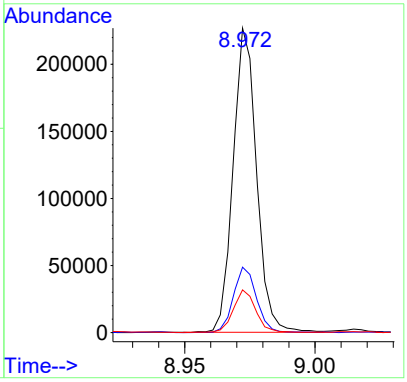


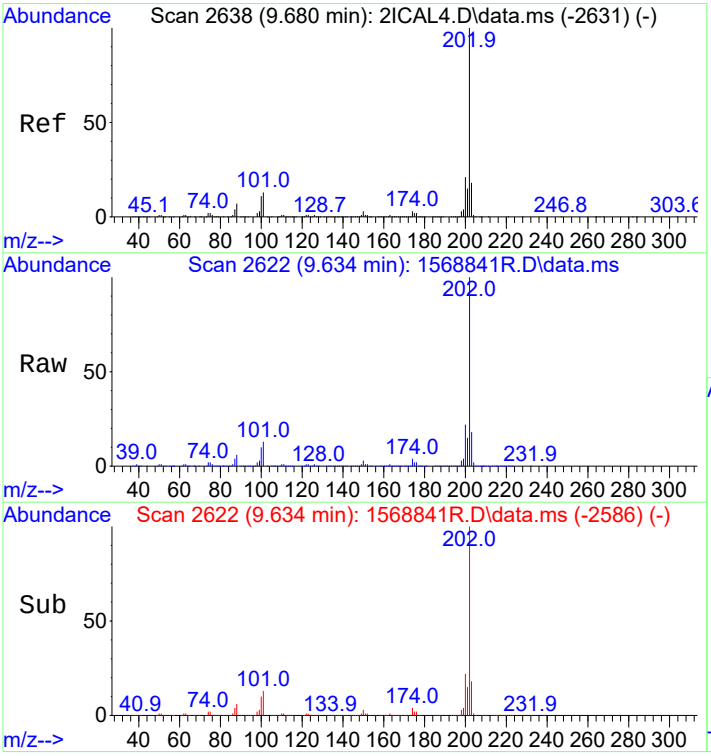



#72
Carbazole
Concen: 4.96 ug/mL
RT: 8.972 min Scan# 2389
Delta R.T. 0.000 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:167 Resp: 142143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.5 | 0.0 | 52.1 |
| 139 | 14.0 | 0.0 | 44.7 |

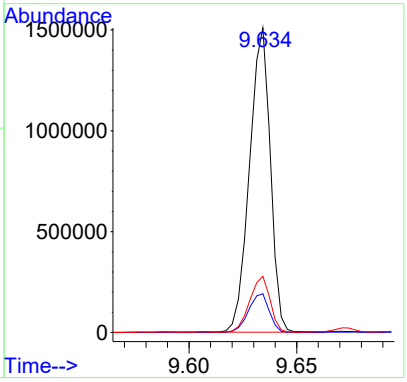


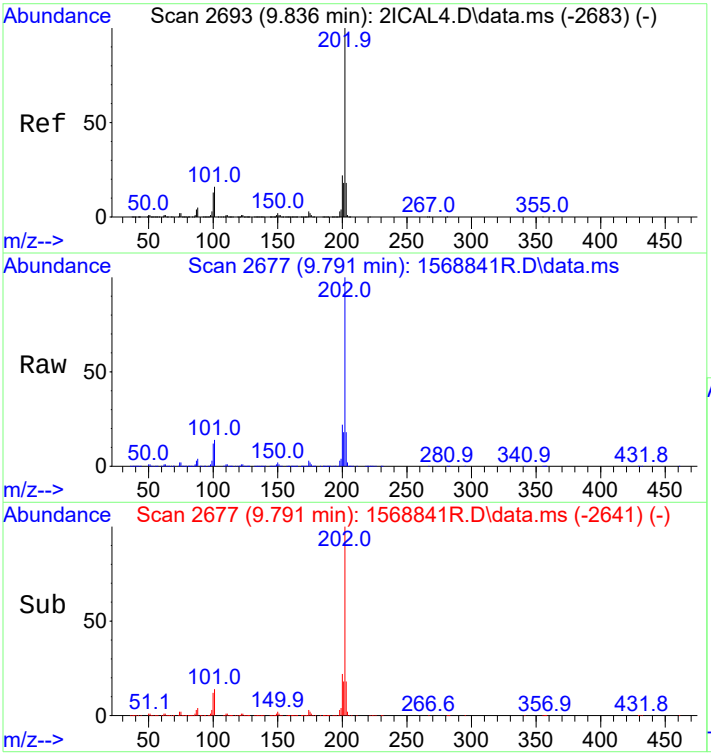




#74
Fluoranthene
Concen: 29.03 ug/mL
RT: 9.634 min Scan# 2622
Delta R.T. 0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:202 Resp: 1014283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.7 | 0.0 | 43.0 |
| 203 | 18.4 | 0.0 | 48.2 |

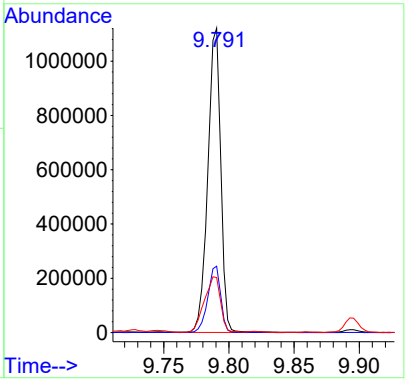


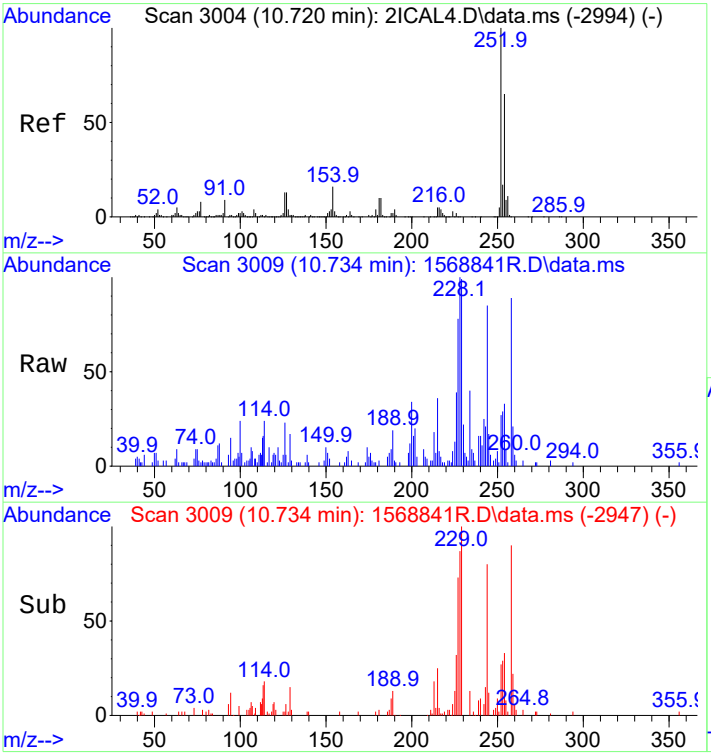



#77
Pyrene
Concen: 19.58 ug/mL
RT: 9.791 min Scan# 2677
Delta R.T. 0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:202 Resp: 775908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.8 | 0.0 | 52.2 |
| 203 | 18.0 | 0.0 | 48.2 |

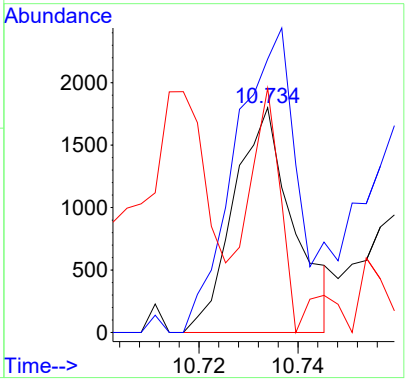


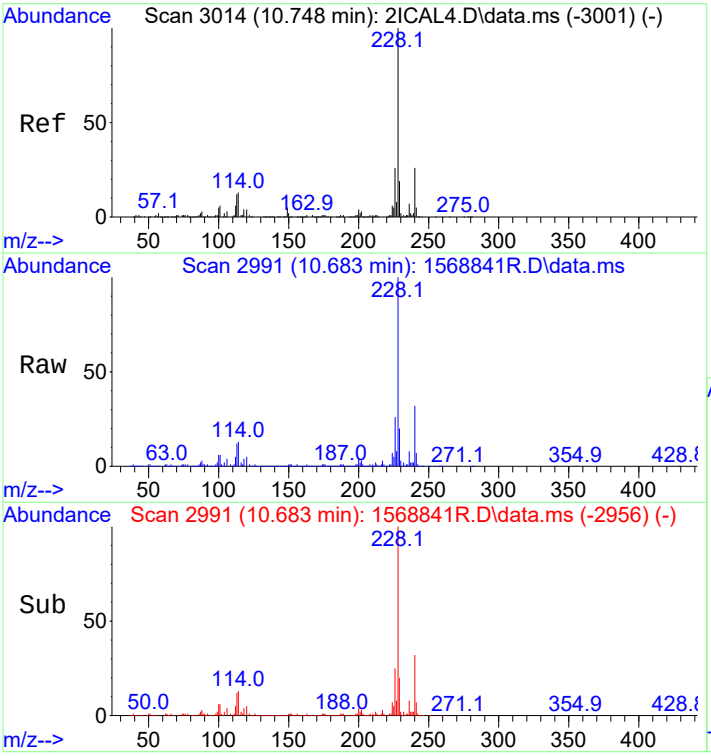




#81
33Diclbnzidin
Concen: Below Cal
RT: 10.734 min Scan# 3009
Delta R.T. 0.077 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:252 Resp: 1502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 121.6 | 34.6 | 94.6# |
| 126 | 92.2 | 0.0 | 42.6# |

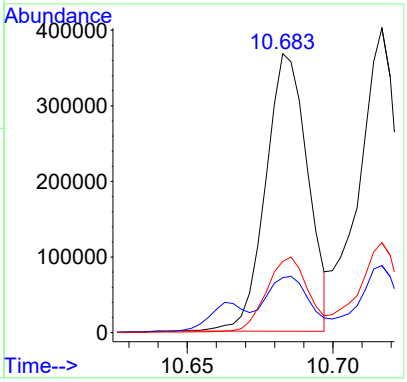


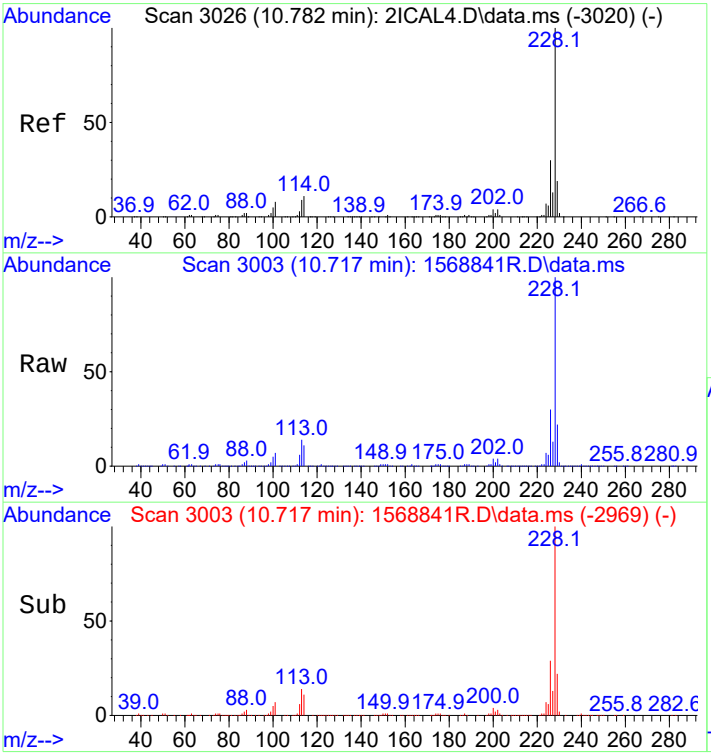



#82
B[a]anthracen
Concen: 9.82 ug/mL
RT: 10.683 min Scan# 2991
Delta R.T. 0.000 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:228 Resp: 369023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 229 | 18.9 | 0.0 | 49.4 |
| 226 | 25.4 | 0.0 | 56.5 |

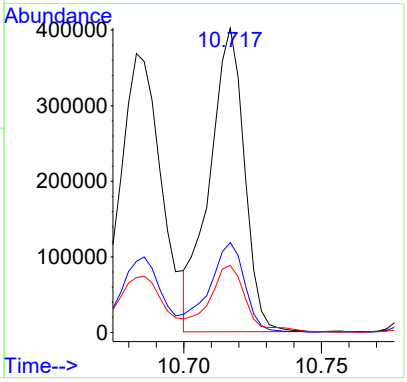


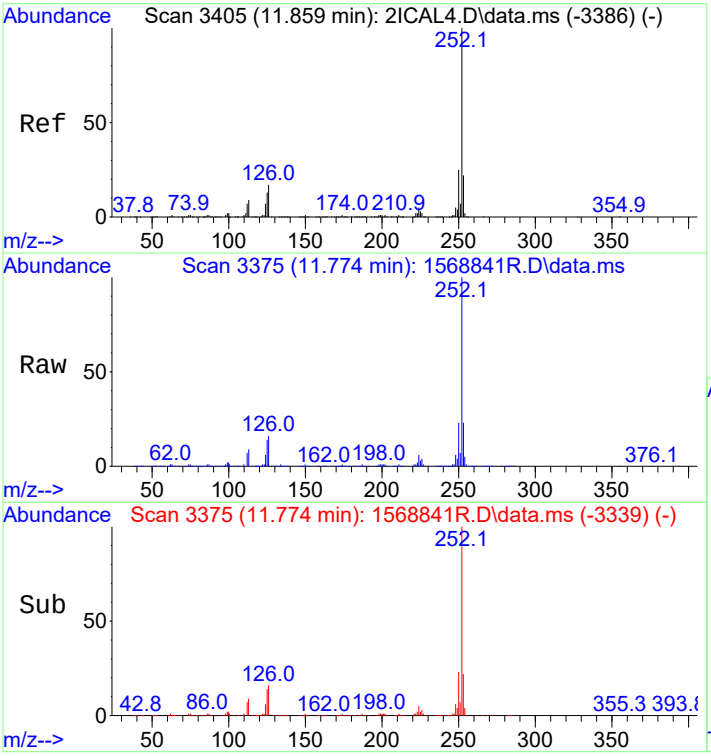




#83
Chrysene
Concen: 10.05 ug/mL
RT: 10.717 min Scan# 3003
Delta R.T. -0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:228 Resp: 354050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.5 | 0.0 | 59.9 |
| 229 | 21.8 | 0.0 | 49.5 |

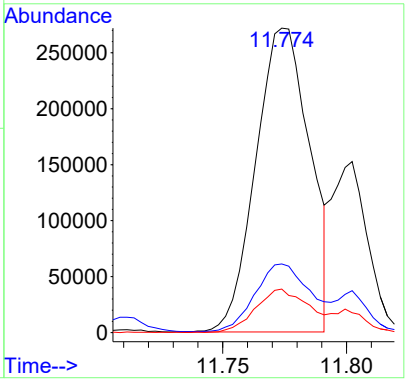


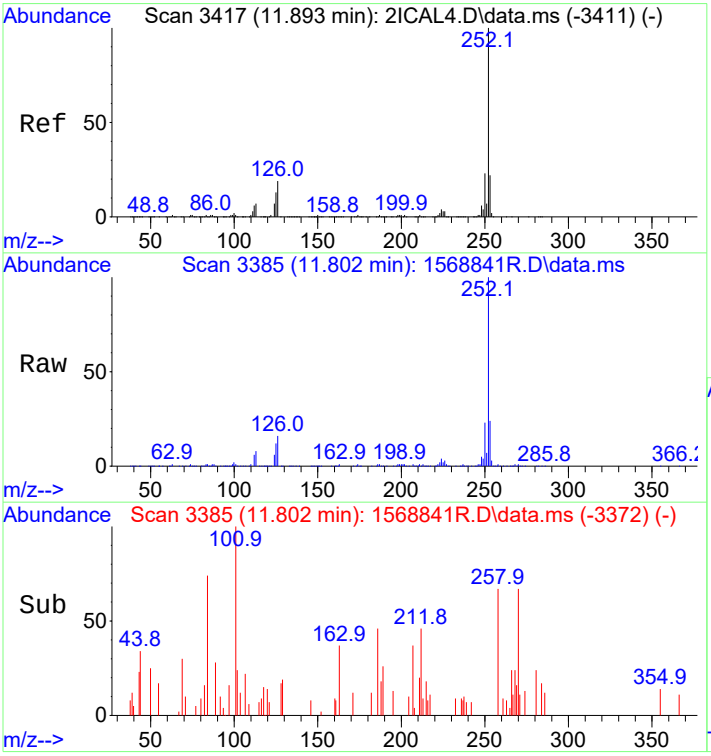



#87
B[b]fluoranth
Concen: 14.17 ug/mL
RT: 11.774 min Scan# 3375
Delta R.T. 0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:252 Resp: 411791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 0.0 | 52.3 |
| 125 | 14.2 | 0.0 | 43.2 |

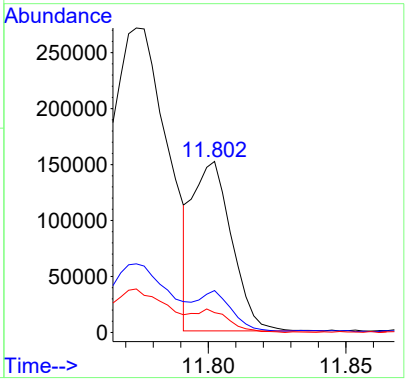


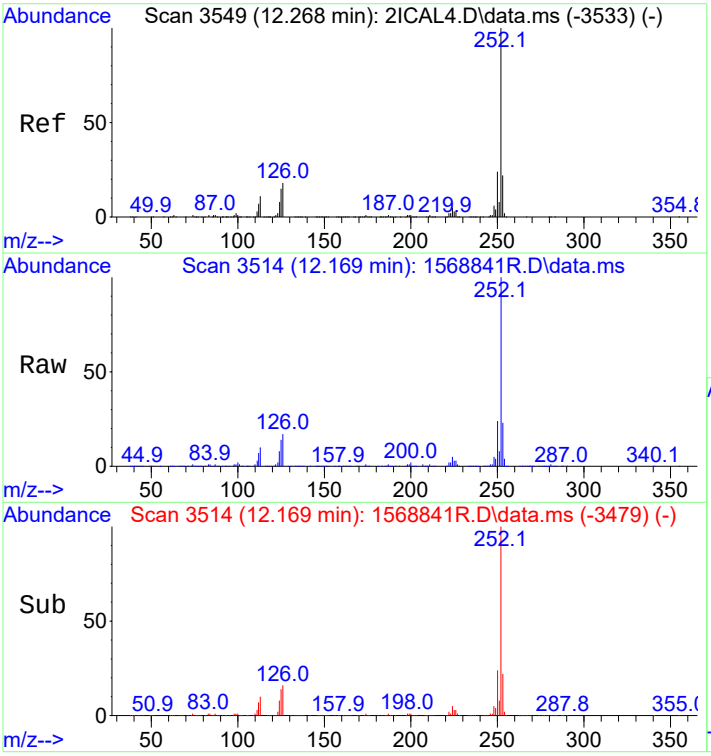




#88
B[k]fluoranth
Concen: 5.11 ug/mL
RT: 11.802 min Scan# 3385
Delta R.T. -0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:252 Resp: 148855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 23.8 | 0.0 | 52.0 |
| 125 | 11.4 | 0.0 | 43.3 |

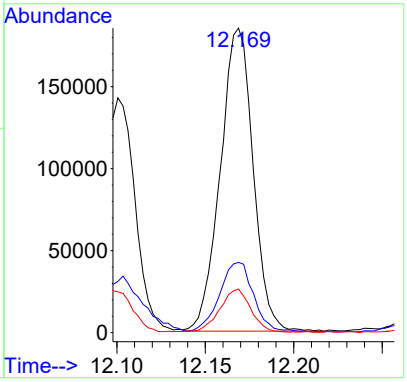


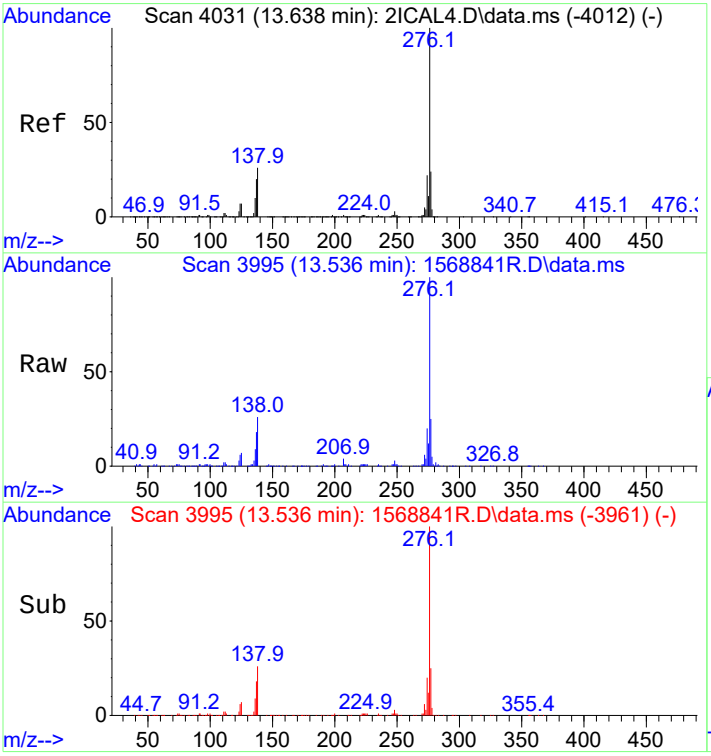



#89
Benz[a]pyrene
Concen: 8.93 ug/mL
RT: 12.169 min Scan# 3514
Delta R.T. 0.000 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:252 Resp: 238639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.9 | 0.0 | 52.3 |
| 125 | 14.0 | 0.0 | 45.1 |

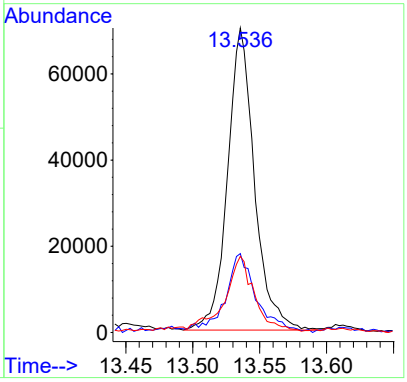


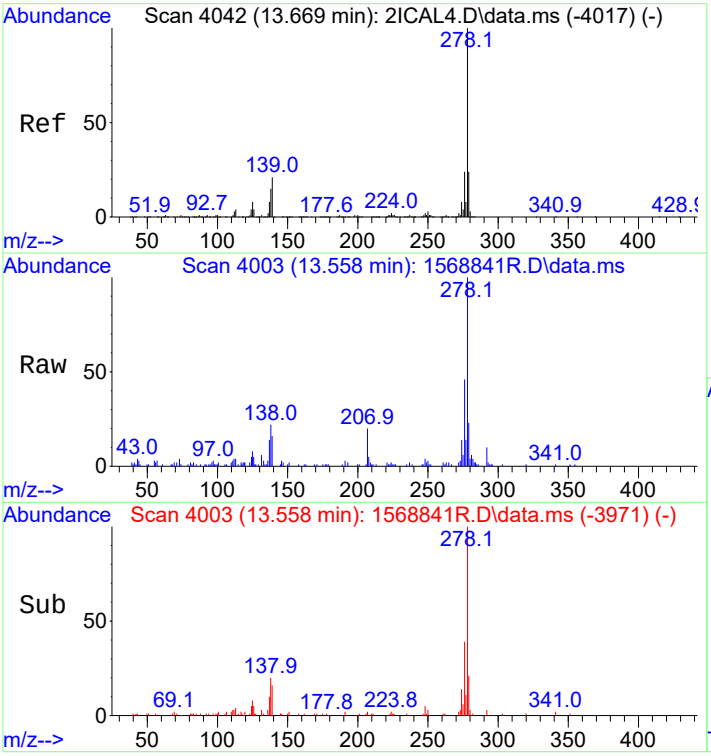




#90
Indeno-pyrene
Concen: 3.32 ug/mL
RT: 13.536 min Scan# 3995
Delta R.T. -0.003 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:276 Resp: 98230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.2 | 0.0 | 55.5 |
| 277 | 24.2 | 0.0 | 54.0 |

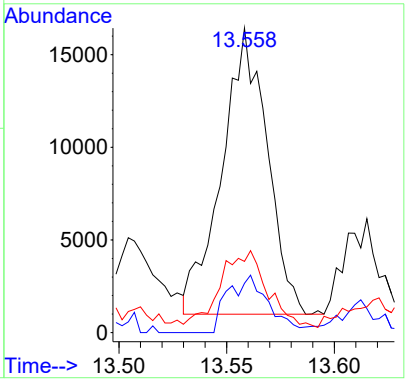


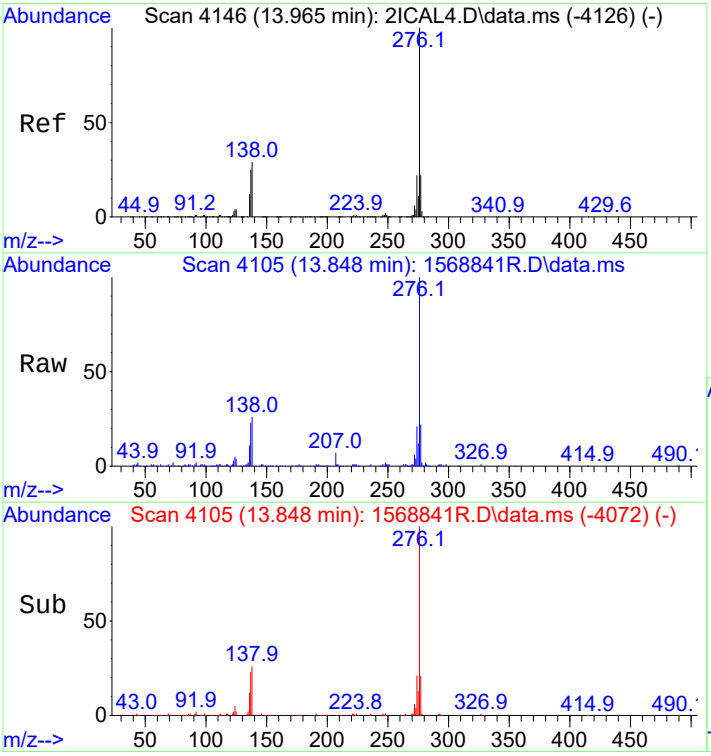



#91
Dib[ah]anthr
Concen: 0.94 ug/mL
RT: 13.558 min Scan# 4003
Delta R.T. -0.008 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:278 Resp: 22590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.2 | 0.0 | 50.9 |
| 279 | 21.9 | 0.0 | 54.4 |

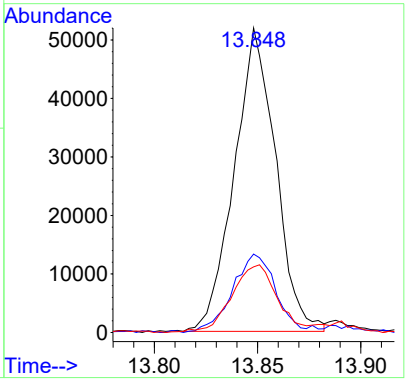



#92
B[ghi]perylen
Concen: 3.12 ug/mL
RT: 13.848 min Scan# 4105
Delta R.T. -0.006 min
Lab File: 1568841R.D
Acq: 14 Apr 2025 14:45

Tgt Ion:276 Resp: 72203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.5 | 0.0 | 59.0 |
| 277 | 20.9 | 0.0 | 52.3 |

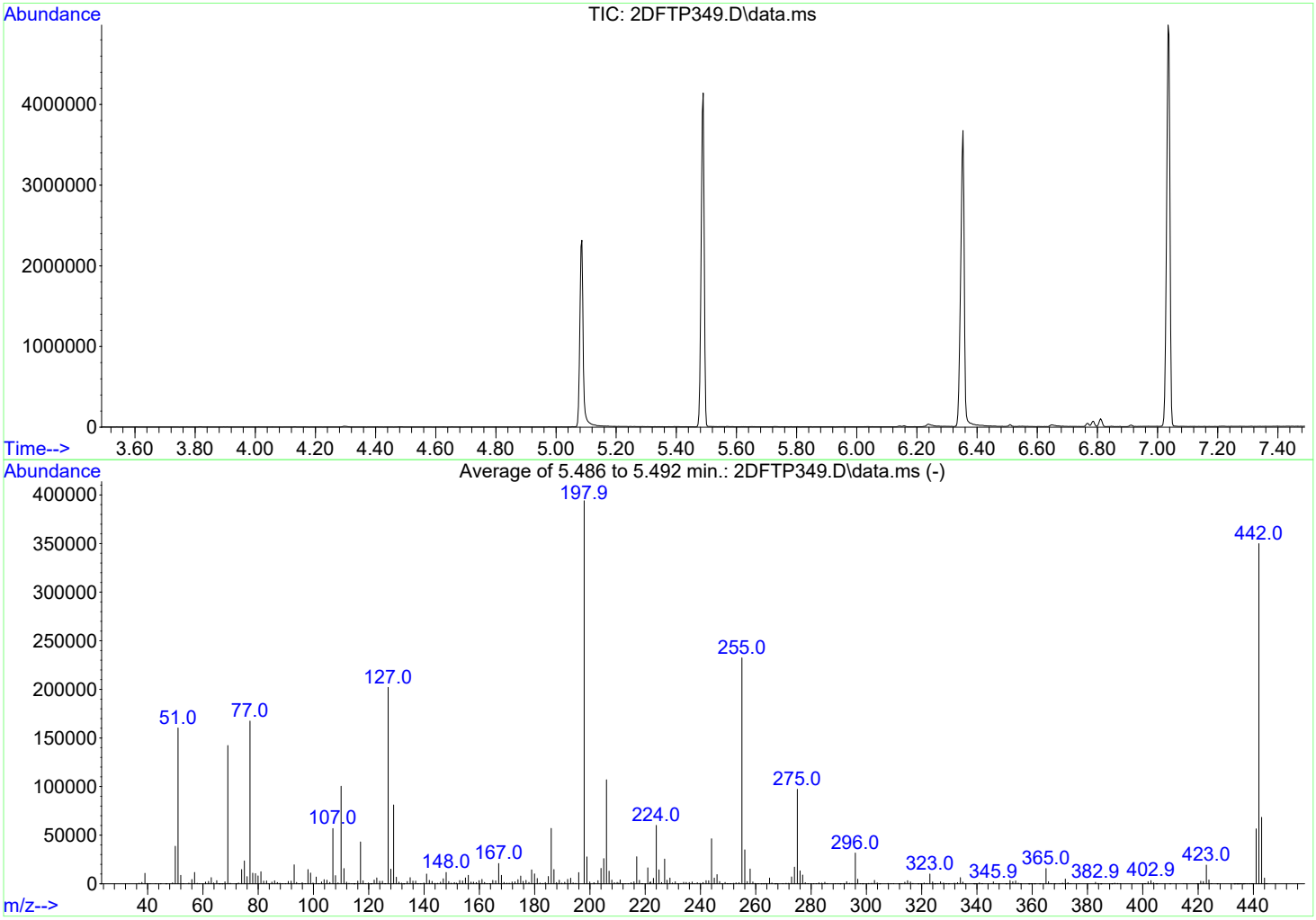


# SEMI - VOLATILE ORGANIC ANALYSIS
# INITIAL CALIBRATION
# DOCUMENTS

Data Path : C:\INSTARCH\DATA\2S040725\
Data File : 2DFTP349.D
Acq On : 7 Apr 2025 9:57
Operator : JJY
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Fri Apr 04 09:43:54 2025



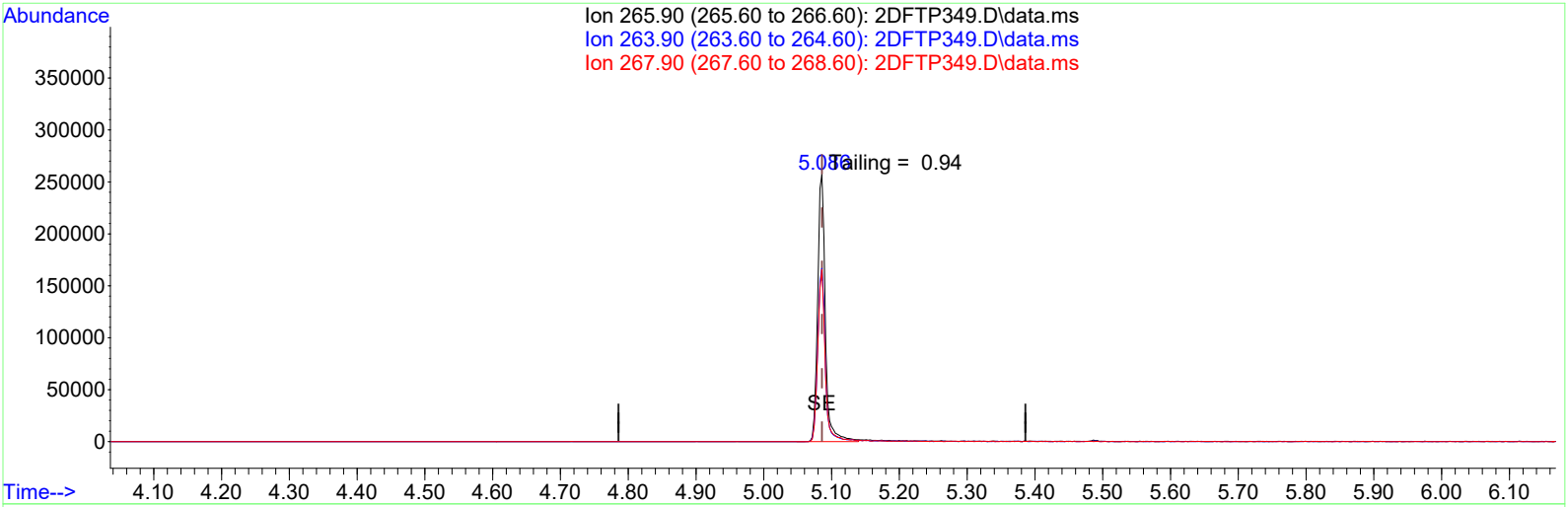

AutoFind: Scans 951, 952, 953; Background Corrected with Scan 942

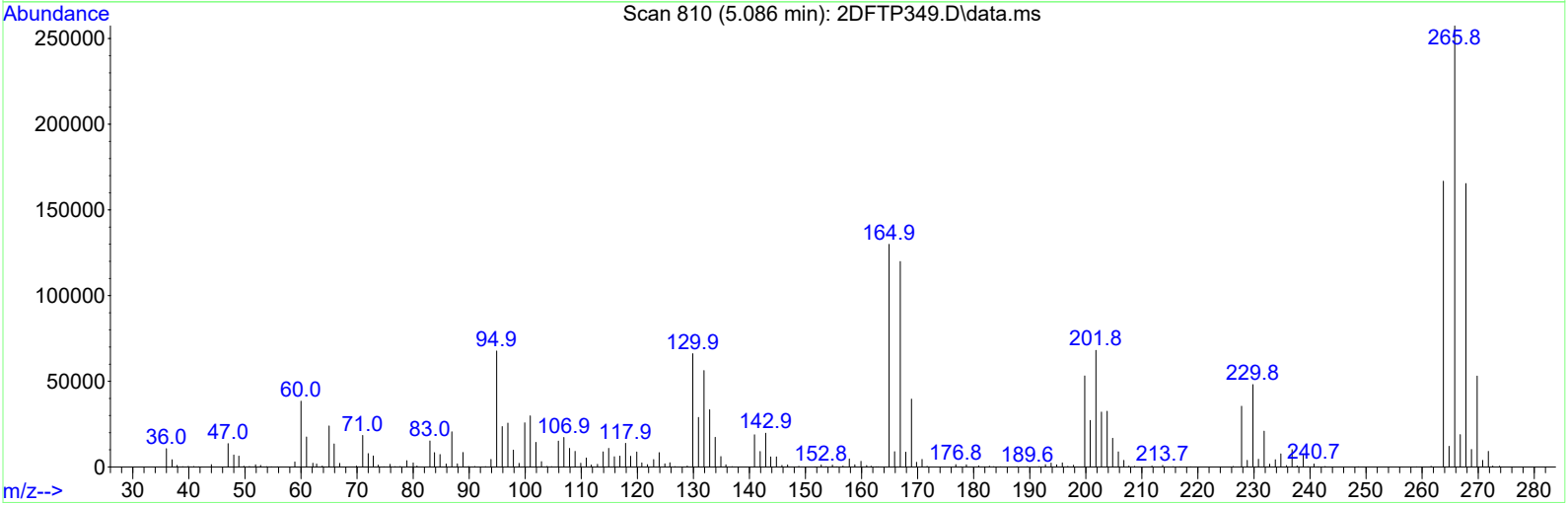
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 40.7 | 160280 | PASS |
| 68 | 69 | 0.00 | 2 | 1.4 | 2055 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 548 | PASS |
| 127 | 198 | 10 | 80 | 51.3 | 202048 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 394048 | PASS |
| 199 | 198 | 5 | 9 | 7.0 | 27669 | PASS |
| 275 | 198 | 10 | 60 | 24.7 | 97229 | PASS |
| 365 | 198 | 1 | 100 | 4.0 | 15664 | PASS |
| 441 | 442 | 0.01 | 24 | 16.2 | 56587 | PASS |
| 442 | 198 | 50 | 100 | 88.8 | 349995 | PASS |
| 443 | 442 | 15 | 24 | 19.6 | 68477 | PASS |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S040725\2DFTP349.D  Vial: 1
Acq On : 7 Apr 2025 9:57  Operator: JJY
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 10:08:37 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Fri Apr 04 09:43:54 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP349.D\data.ms

**(1) Pentachlorophenol**

**5.086min (-0.000) 25.99 ng**

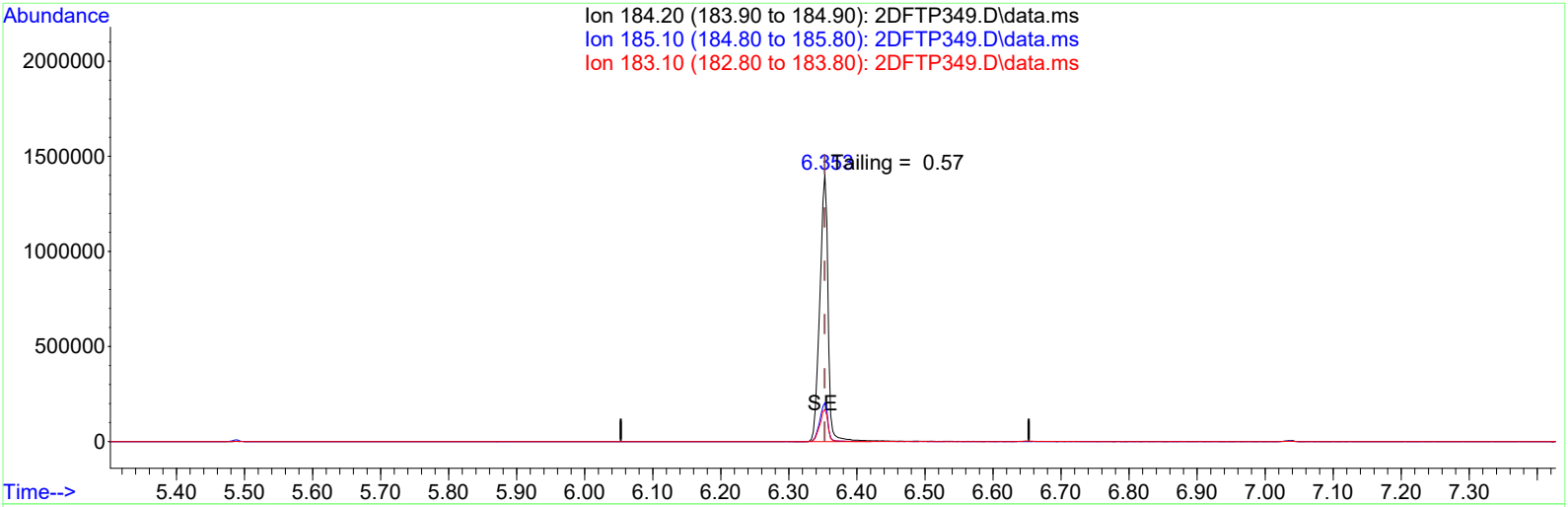
**response 203954**

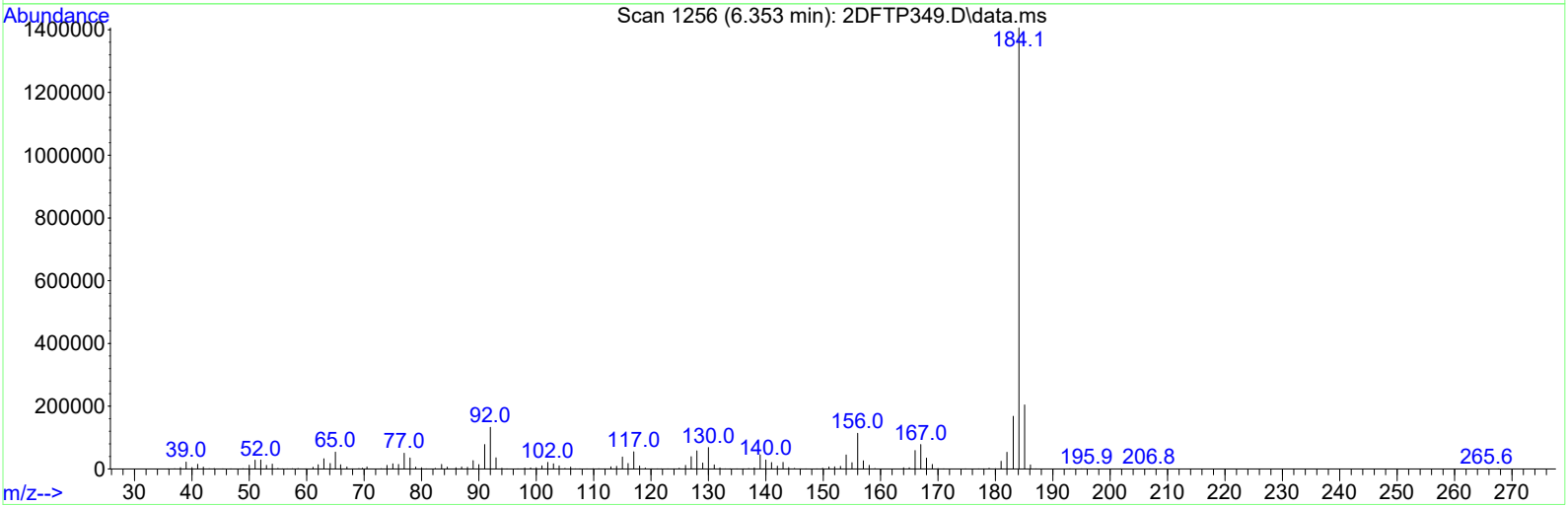
| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 263.90 | 62.00 | 63.82 |
| 267.90 | 60.10 | 61.91 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S040725\2DFTP349.D  Vial: 1
Acq On : 7 Apr 2025 9:57  Operator: JJY
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 10:08:37 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Fri Apr 04 09:43:54 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP349.D\data.ms

**(3) Benzidine**

**6.353min (+ 0.000) 45.61 ng**

**response 1182649**

| Ion | Exp% | Act% |
|---|---|---|
| 184.20 | 100.00 | 100.00 |
| 185.10 | 15.30 | 14.31 |
| 183.10 | 11.70 | 11.94 |
| 0.00 | 0.00 | 0.00 |

| | |
|---|---|
| Data File Name | 2DFTP349.D |
| Vial Number | 1 |
| Data File Path | C:\INSTARCH\DATA\2S040725\ |
| Operator | JJY |
| Date Acquired | 4/7/2025 9:57 |
| Instrument Name | SVMS2 |
| Sample Name | DFTPP TUNE SVMS10212 |
| Sample Multiplier | 1 |
| Misc Info | SVMS2, 25 ng DFTPP |
| Calibration Title | DFTPP TUNE |
| Last Calibration Update | Fri Apr 04 09:43:54 2025 |

| # | Name | Ret Time | Target Response |
|---|---|---|---|
| 1) | Pentachlorophenol | 5.09 | 203954 |
| 2) | DFTPP | 5.49 | 317719 |
| 3) | Benzidine | 6.35 | 1182649 |
| 4) | DDE | 6.51 | 2005 |
| 5) | DDD | 6.81 | 20844 |
| 6) | DDT | 7.03 | 697650 |

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \quad 3.17\ \%$$

# Response Factor Report SVMS2

Method Path : C:\INSTARCH\METHOD\
Method File : 2S040725.M
Title : Method for 8270 Analysis
Last Update : Mon Apr 07 13:30:28 2025
Response Via : Initial Calibration

Calibration Files
1 =2ICAL1.D 5 =2ICAL2.D 10 =2ICAL3.D 20 =2ICAL4.D 30 =2ICAL5.D 40 =2ICAL6.D 50 =2ICAL7.D

| | | Compound | 1 | 5 | 10 | 20 | 30 | 40 | 50 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 14Diclbenzd4 | ----------ISTD---------- | | | | | | | | |
| 2) | CT | Ntrsdimeth | 0.761 | 0.788 | 0.776 | 0.799 | 0.816 | 0.795 | 0.817 | 0.793 | 2.57 |
| 3) | CT | Pyridine | 1.402 | 1.392 | 1.342 | 1.404 | 1.445 | 1.390 | 1.447 | 1.403 | 2.56 |
| 4) | S | SURR2Flphenol | 0.478 | 0.494 | 0.477 | 0.500 | 0.511 | 0.486 | 0.498 | 0.492 | 2.58 |
| 5) | CT | Aniline | 1.846 | 1.837 | 1.820 | 1.892 | 1.962 | 1.867 | 1.895 | 1.874 | 2.54 |
| 6) | CPT | bis2Clethletr | 1.228 | 1.207 | 1.227 | 1.258 | 1.275 | 1.212 | 1.231 | 1.234 | 1.96 |
| 7) | S | SURRPhenol-d5 | 0.563 | 0.587 | 0.577 | 0.596 | 0.617 | 0.586 | 0.600 | 0.589 | 2.97 |
| 8) | CPT | Phenol | 1.401 | 1.495 | 1.457 | 1.524 | 1.569 | 1.489 | 1.527 | 1.495 | 3.62 |
| 9) | CPT | 2-Cl-phenol | 1.263 | 1.338 | 1.308 | 1.354 | 1.412 | 1.345 | 1.366 | 1.341 | 3.49 |
| 10) | CT | 13Diclbenz | 1.512 | 1.521 | 1.426 | 1.474 | 1.514 | 1.433 | 1.443 | 1.475 | 2.79 |
| 11) | CT | 14Diclbenz | 1.567 | 1.510 | 1.467 | 1.482 | 1.523 | 1.445 | 1.459 | 1.493 | 2.87 |
| 12) | CT | 12Diclbenz | 1.449 | 1.415 | 1.377 | 1.406 | 1.448 | 1.372 | 1.402 | 1.410 | 2.15 |
| 13) | CT | Benzyl alcoho | 0.788 | 0.839 | 0.849 | 0.907 | 0.933 | 0.883 | 0.906 | 0.872 | 5.71 |
| 14) | CPT | bis2clispreth | 2.485 | 2.351 | 2.283 | 2.373 | 2.447 | 2.330 | 2.376 | 2.378 | 2.88 |
| 15) | CPT | 2Methylphenol | 1.003 | 1.053 | 1.033 | 1.066 | 1.091 | 1.043 | 1.055 | 1.049 | 2.62 |
| 16) | CT | Ntrspyrrol | 0.571 | 0.627 | 0.636 | 0.684 | 0.701 | 0.676 | 0.690 | 0.655 | 7.05 |
| 17) | CPT | Acetophenone | 1.815 | 1.892 | 1.809 | 1.896 | 1.951 | 1.846 | 1.875 | 1.869 | 2.69 |
| 18) | CPT | Hexaclethane | 0.593 | 0.560 | 0.547 | 0.566 | 0.592 | 0.564 | 0.574 | 0.571 | 2.96 |
| 19) | CPT | N-Ntrsdinprop | 0.944 | 0.923 | 0.891 | 0.909 | 0.949 | 0.897 | 0.932 | 0.921 | 2.46 |
| 20) | CPT | 3&4Methylphenol | 1.311 | 1.372 | 1.345 | 1.383 | 1.396 | 1.317 | 1.327 | 1.350 | 2.51 |
| 21) | I | Naphthalened8 | ----------ISTD---------- | | | | | | | | |
| 22) | S | SURRNitrbenzened5 | 0.051 | 0.054 | 0.052 | 0.055 | 0.057 | 0.055 | 0.055 | 0.054 | 3.48 |
| 23) | CPT | Nitrobenzene | 0.254 | 0.264 | 0.255 | 0.267 | 0.274 | 0.266 | 0.268 | 0.264 | 2.70 |
| 24) | CPT | Isophorone | 0.526 | 0.556 | 0.547 | 0.577 | 0.581 | 0.567 | 0.573 | 0.561 | 3.48 |
| 25) | CPT | 2-Nitrophenol | 0.144 | 0.166 | 0.172 | 0.188 | 0.181 | 0.176 | 0.175 | 0.172 | 8.13 |
| 26) | CPT | 24Dimthpheno | 0.274 | 0.281 | 0.269 | 0.276 | 0.279 | 0.270 | 0.271 | 0.274 | 1.65 |
| 27) | CPT | bis2clethoxym | 0.342 | 0.351 | 0.338 | 0.350 | 0.358 | 0.345 | 0.343 | 0.347 | 1.96 |
| 28) | CPT | 24Diclphenol | 0.229 | 0.245 | 0.247 | 0.258 | 0.258 | 0.254 | 0.253 | 0.249 | 4.15 |
| 29) | CT | 124Triclbenz | 0.278 | 0.286 | 0.275 | 0.280 | 0.286 | 0.277 | 0.276 | 0.280 | 1.61 |
| 30) | CT | Benzoic acid | | 0.064 | 0.105 | 0.139 | 0.160 | 0.165 | 0.168 | 0.134 | 30.97# |
| 31) | CPT | Naphthalene | 1.001 | 0.951 | 0.909 | 0.924 | 0.926 | 0.888 | 0.879 | 0.925 | 4.44 |
| 32) | CPT | 4-Cl-aniline | 0.335 | 0.360 | 0.339 | 0.343 | 0.365 | 0.362 | 0.363 | 0.352 | 3.68 |
| 33) | CT | 26Diclphenol | 0.238 | 0.258 | 0.244 | 0.250 | 0.252 | 0.244 | 0.241 | 0.247 | 2.86 |
| 34) | CT | Hexaclprop | 0.172 | 0.183 | 0.181 | 0.192 | 0.199 | 0.194 | 0.191 | 0.187 | 4.94 |
| 35) | CPT | Hexaclbutdien | 0.168 | 0.173 | 0.162 | 0.166 | 0.169 | 0.163 | 0.159 | 0.166 | 2.89 |
| 36) | CPT | 4Cl3methylphe | 0.230 | 0.251 | 0.247 | 0.261 | 0.265 | 0.259 | 0.258 | 0.253 | 4.69 |
| 37) | CPT | 2Methylnaphth | 0.574 | 0.575 | 0.546 | 0.568 | 0.569 | 0.546 | 0.535 | 0.559 | 2.91 |
| 38) | CT | 1Methylnaphth | 0.616 | 0.602 | 0.568 | 0.592 | 0.588 | 0.565 | 0.556 | 0.584 | 3.75 |
| 39) | I | Acenaphthened10 | ----------ISTD---------- | | | | | | | | |
| 40) | CPT | Hxclcycpentdi | 0.273 | 0.319 | 0.324 | 0.339 | 0.343 | 0.328 | 0.334 | 0.323 | 7.33 |
| 41) | CPT | 1245Tetrclbenz | 0.498 | 0.459 | 0.455 | 0.455 | 0.451 | 0.431 | 0.440 | 0.455 | 4.62 |
| 42) | CPT | 246Triclpheno | 0.284 | 0.304 | 0.301 | 0.315 | 0.319 | 0.311 | 0.317 | 0.307 | 3.99 |

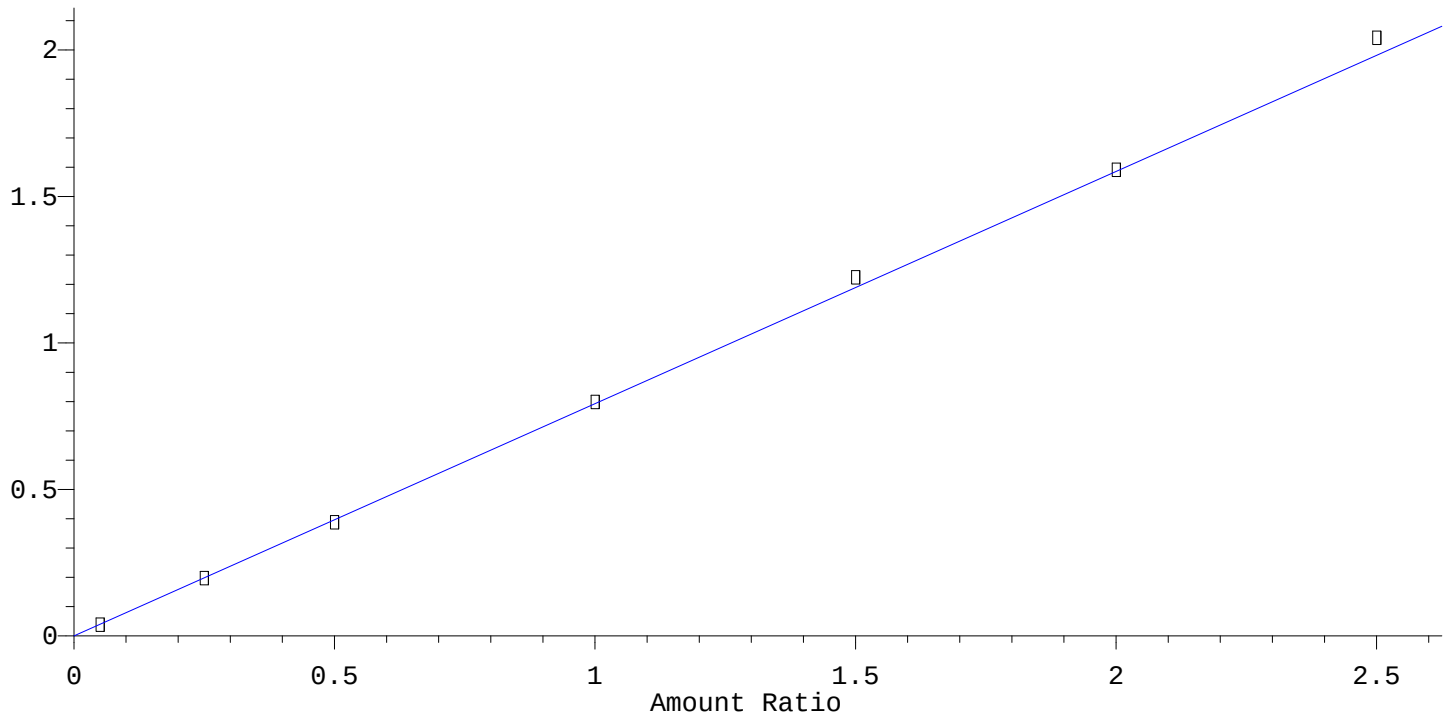
Method Path : C:\INSTARCH\METHOD\
Method File : 2S040725.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 43) | CPT | 245Triclpheno | 0.295 | 0.327 | 0.317 | 0.334 | 0.342 | 0.336 | 0.338 | 0.327 | 5.02 |
| 44) | S | SURR2Flbiphenyl | 0.256 | 0.242 | 0.235 | 0.238 | 0.236 | 0.226 | 0.228 | 0.237 | 4.25 |
| 45) | CPT | 2Clnaphthalen | 1.039 | 1.012 | 0.981 | 1.015 | 1.009 | 0.970 | 0.980 | 1.001 | 2.46 |
| 46) | CPT | 2Nitroaniline | 0.229 | 0.276 | 0.279 | 0.303 | 0.311 | 0.309 | 0.316 | 0.289 | 10.64 |
| 47) | CPT | Acnaphthylene | 1.670 | 1.705 | 1.655 | 1.641 | 1.606 | 1.522 | 1.537 | 1.619 | 4.22 |
| 48) | CPT | Dimethylphtha | 1.196 | 1.197 | 1.168 | 1.193 | 1.181 | 1.127 | 1.135 | 1.171 | 2.51 |
| 49) | CPT | 26Dinitrotolu | 0.235 | 0.264 | 0.263 | 0.272 | 0.273 | 0.271 | 0.273 | 0.264 | 5.14 |
| 50) | CPT | Acenaphthene | 1.003 | 0.987 | 0.941 | 0.966 | 0.960 | 0.919 | 0.928 | 0.958 | 3.20 |
| 51) | CPT | 3Nitroaniline | 0.218 | 0.266 | 0.256 | 0.252 | 0.271 | 0.275 | 0.282 | 0.260 | 8.19 |
| 52) | CPT | 24Dinitphenol | | 0.048 | 0.078 | 0.112 | 0.130 | 0.142 | 0.142 | 0.108 | 35.34# |
| 53) | CPT | Dibenzofuran | 1.468 | 1.453 | 1.383 | 1.393 | 1.351 | 1.290 | 1.286 | 1.375 | 5.21 |
| 54) | CPT | 24Dinitrotolu | 0.284 | 0.350 | 0.345 | 0.360 | 0.366 | 0.354 | 0.354 | 0.345 | 8.03 |
| 55) | CPT | 4-Nitrophenol | | 0.154 | 0.169 | 0.184 | 0.196 | 0.199 | 0.200 | 0.183 | 10.18 |
| 56) | CT | 2,3,5,6-Tetrac... | 0.150 | 0.209 | 0.220 | 0.246 | 0.255 | 0.250 | 0.259 | 0.227 | 17.05 |
| 57) | CPT | 2,3,4,6-Tetrac... | 0.163 | 0.241 | 0.242 | 0.259 | 0.264 | 0.259 | 0.264 | 0.242 | 14.92 |
| 58) | CPT | Fluorene | 1.130 | 1.088 | 1.039 | 1.049 | 1.016 | 0.959 | 0.949 | 1.033 | 6.31 |
| 59) | CPT | 4Clphlphlethr | 0.547 | 0.510 | 0.487 | 0.486 | 0.473 | 0.447 | 0.447 | 0.485 | 7.32 |
| 60) | CPT | Diethylphthal | 1.149 | 1.168 | 1.140 | 1.166 | 1.178 | 1.141 | 1.151 | 1.156 | 1.26 |
| 61) | CPT | 4Nitroaniline | 0.211 | 0.238 | 0.232 | 0.227 | 0.239 | 0.233 | 0.237 | 0.231 | 4.22 |
| 62) | S | SURR246Tribrphenl | 0.047 | 0.051 | 0.049 | 0.053 | 0.054 | 0.052 | 0.054 | 0.051 | 4.71 |
| 63) | I | Phenanthrd10 | ----------ISTD---------- | | | | | | | | |
| 64) | CPT | 46Dinit2mylph | | 0.086 | 0.105 | 0.121 | 0.131 | 0.130 | 0.132 | 0.118 | 15.74 |
| 65) | CPT | Ntrsdiphlam&Di... | 0.558 | 0.547 | 0.534 | 0.519 | 0.501 | 0.472 | 0.469 | 0.514 | 6.81 |
| 66) | CT | Azobenz&12Diph... | 0.204 | 0.190 | 0.187 | 0.188 | 0.182 | 0.173 | 0.171 | 0.185 | 6.05 |
| 67) | CPT | 4Brphlphlethr | 0.193 | 0.193 | 0.192 | 0.190 | 0.186 | 0.182 | 0.181 | 0.188 | 2.71 |
| 68) | CPT | Hexaclbenzene | 0.228 | 0.218 | 0.212 | 0.210 | 0.210 | 0.203 | 0.204 | 0.212 | 4.09 |
| 69) | CPT | Pentaclphenol | | 0.054 | 0.077 | 0.098 | 0.106 | 0.107 | 0.113 | 0.092 | 24.60# |
| 70) | CPT | Phenanthrene | 1.061 | 1.020 | 0.983 | 0.992 | 0.964 | 0.915 | 0.897 | 0.976 | 5.85 |
| 71) | CPT | Anthracene | 1.035 | 1.014 | 1.013 | 1.022 | 0.989 | 0.943 | 0.918 | 0.990 | 4.42 |
| 72) | CPT | Carbazole | 0.892 | 0.905 | 0.877 | 0.805 | 0.782 | 0.750 | 0.739 | 0.821 | 8.43 |
| 73) | CPT | Dinbtylphthal | 1.138 | 1.231 | 1.221 | 1.257 | 1.231 | 1.156 | 1.131 | 1.195 | 4.31 |
| 74) | CPT | Fluoranthene | 1.067 | 1.095 | 1.038 | 1.071 | 1.033 | 0.986 | 0.964 | 1.036 | 4.54 |
| 75) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 76) | CT | Benzidine | 0.366 | 0.375 | 0.326 | 0.313 | 0.329 | 0.373 | 0.398 | 0.355 | 8.88 |
| 77) | CPT | Pyrene | 1.265 | 1.301 | 1.242 | 1.305 | 1.294 | 1.258 | 1.275 | 1.277 | 1.87 |
| 78) | S | SURRTerphenyl-d14 | 0.189 | 0.192 | 0.186 | 0.199 | 0.200 | 0.198 | 0.199 | 0.195 | 2.90 |
| 79) | CPT | Btylbzylphth | 0.501 | 0.595 | 0.597 | 0.663 | 0.685 | 0.673 | 0.687 | 0.629 | 10.87 |
| 80) | CT | bis2Ethlhxlad | 0.469 | 0.559 | 0.562 | 0.625 | 0.626 | 0.621 | 0.631 | 0.585 | 10.20 |
| 81) | CPT | 33Diclbnzidin | 0.338 | 0.288 | 0.226 | 0.204 | 0.222 | 0.246 | 0.256 | 0.254 | 18.02 |
| 82) | CPT | B[a]anthracen | 1.195 | 1.182 | 1.147 | 1.210 | 1.225 | 1.199 | 1.230 | 1.198 | 2.36 |
| 83) | CPT | Chrysene | 1.150 | 1.117 | 1.078 | 1.140 | 1.143 | 1.132 | 1.151 | 1.130 | 2.29 |
| 84) | CPT | bis2Ethlhxlph | 0.807 | 0.916 | 0.921 | 1.002 | 0.998 | 0.971 | 0.980 | 0.942 | 7.31 |
| 85) | CPT | Dinoctylphthl | 1.128 | 1.434 | 1.481 | 1.652 | 1.688 | 1.684 | 1.721 | 1.541 | 13.84 |
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | |
| 87) | CPT | B[b]fluoranth | 0.956 | 1.046 | 1.032 | 1.103 | 1.090 | 1.042 | 1.056 | 1.047 | 4.56 |
| 88) | CPT | B[k]fluoranth | 1.043 | 1.030 | 1.050 | 1.094 | 1.084 | 1.045 | 1.041 | 1.055 | 2.26 |
| 89) | CPT | Benz[a]pyrene | 0.892 | 0.951 | 0.962 | 1.007 | 1.011 | 0.995 | 0.995 | 0.973 | 4.33 |
| 90) | CPT | Indeno-pyrene | 0.959 | 1.006 | 1.068 | 1.085 | 1.153 | 1.127 | 1.135 | 1.076 | 6.65 |
| 91) | CPT | Dib[ah]anthr | 0.759 | 0.836 | 0.888 | 0.900 | 0.934 | 0.930 | 0.934 | 0.883 | 7.36 |
| 92) | CPT | B[ghi]perylen | 0.763 | 0.800 | 0.834 | 0.840 | 0.882 | 0.889 | 0.887 | 0.842 | 5.72 |

Method Path : C:\INSTARCH\METHOD\
Method File : 2S040725.M
(#) = Out of Range

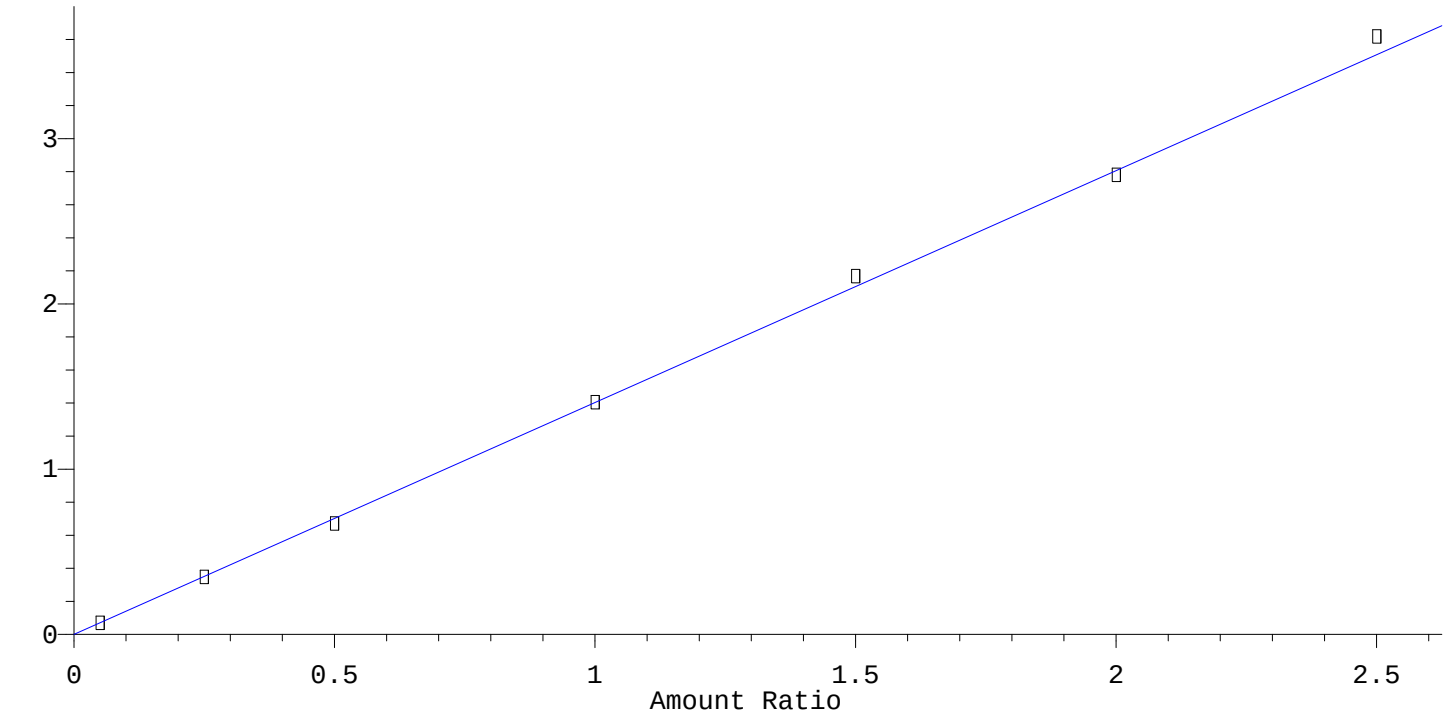
Calibration Plot Report

Ntrsdimeth



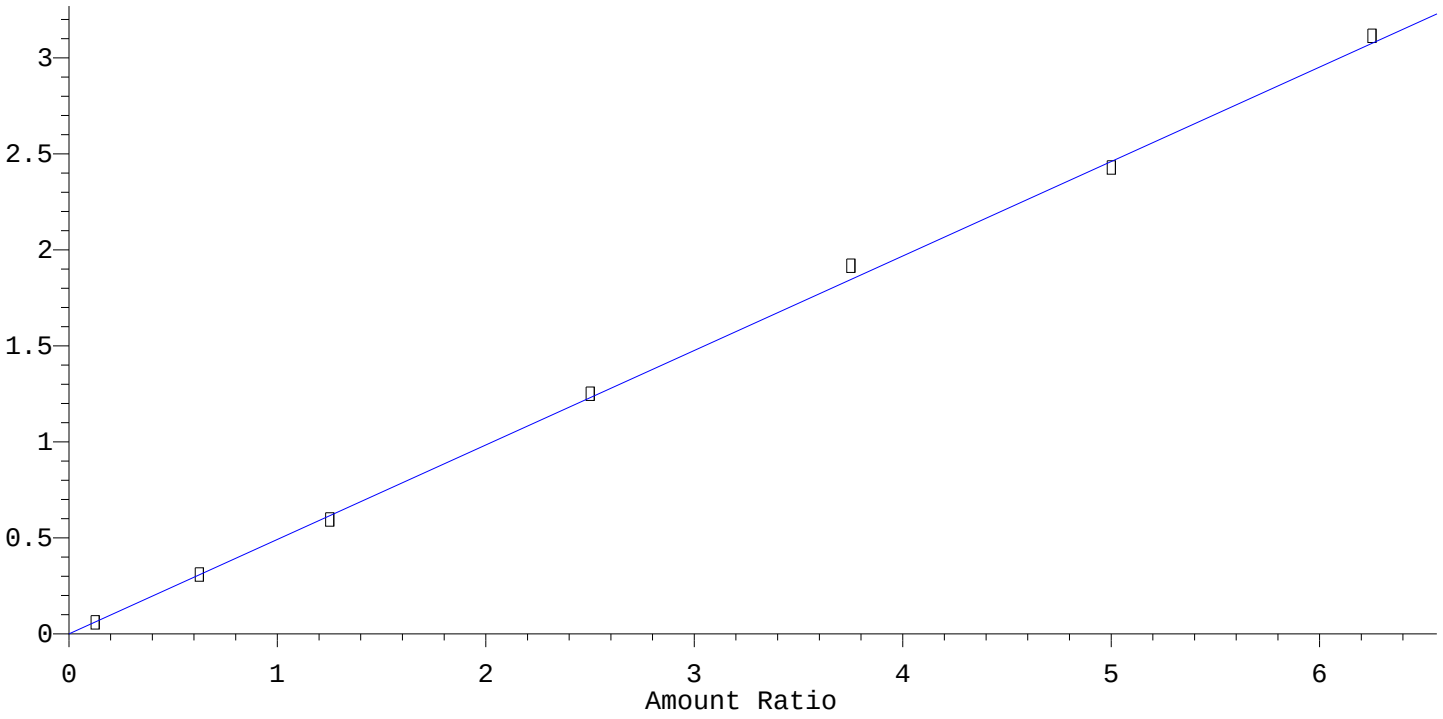

Resp Ratio = 7.929e-001 * Amt
RF Rel Std Dev = 2.570%  Curve Fit: Avg RF

Pyridine



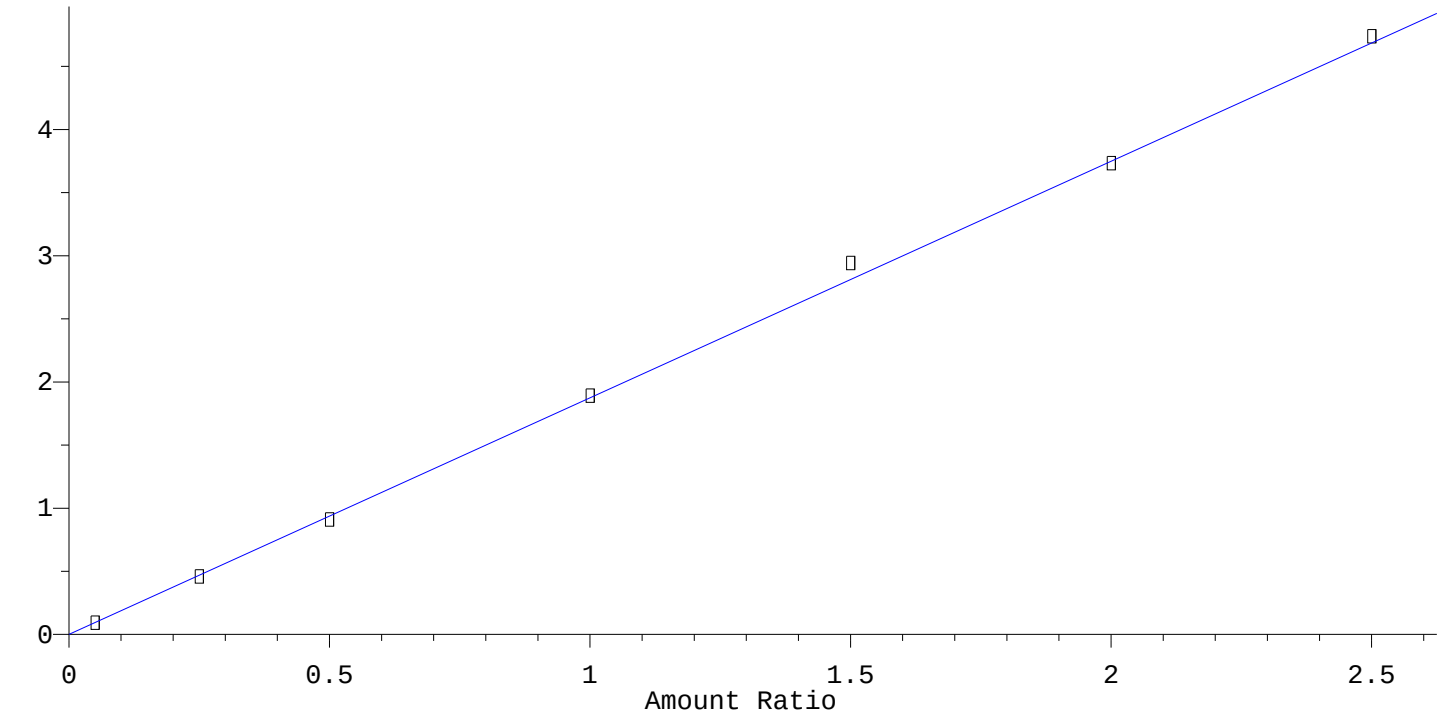

Resp Ratio = 1.403e+000 * Amt
RF Rel Std Dev = 2.561%  Curve Fit: Avg RF

SURR2Flphenol



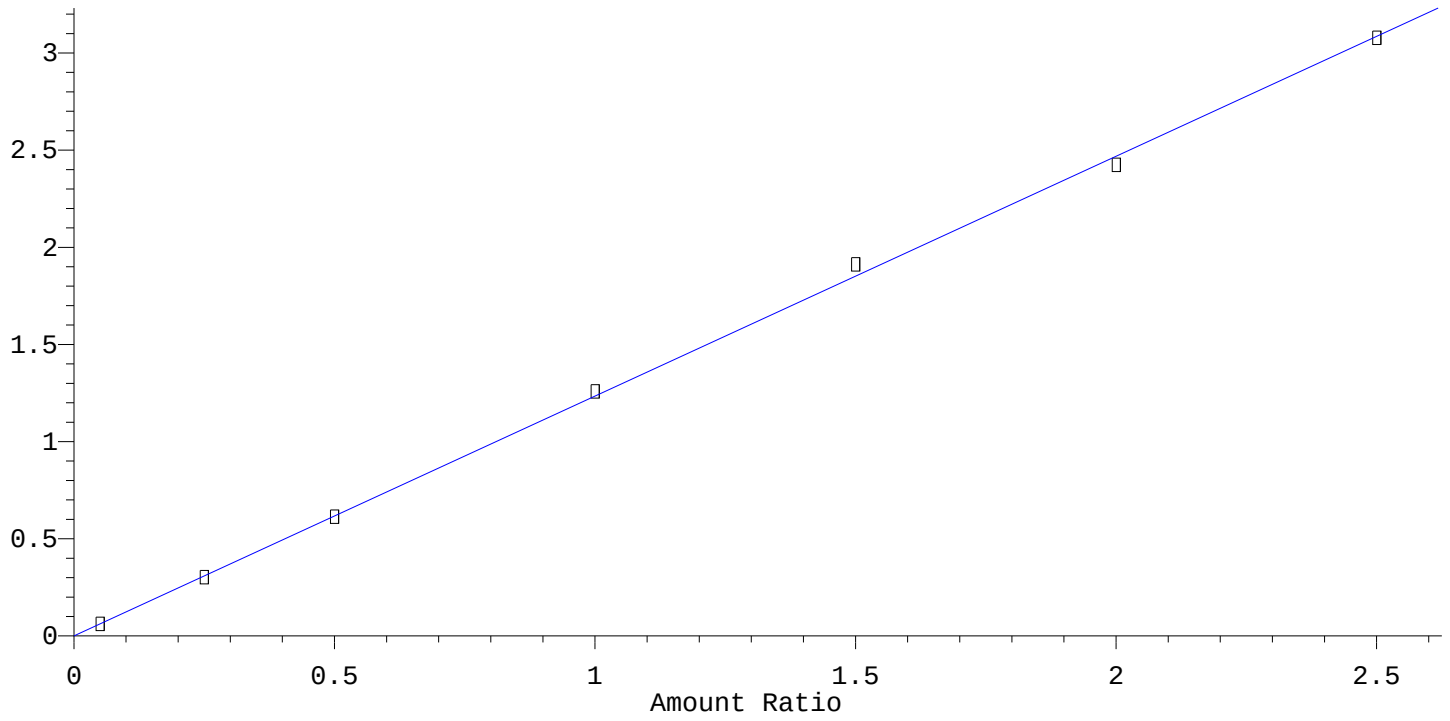

Resp Ratio = 4.921e-001 * Amt
RF Rel Std Dev = 2.577%  Curve Fit: Avg RF

Aniline



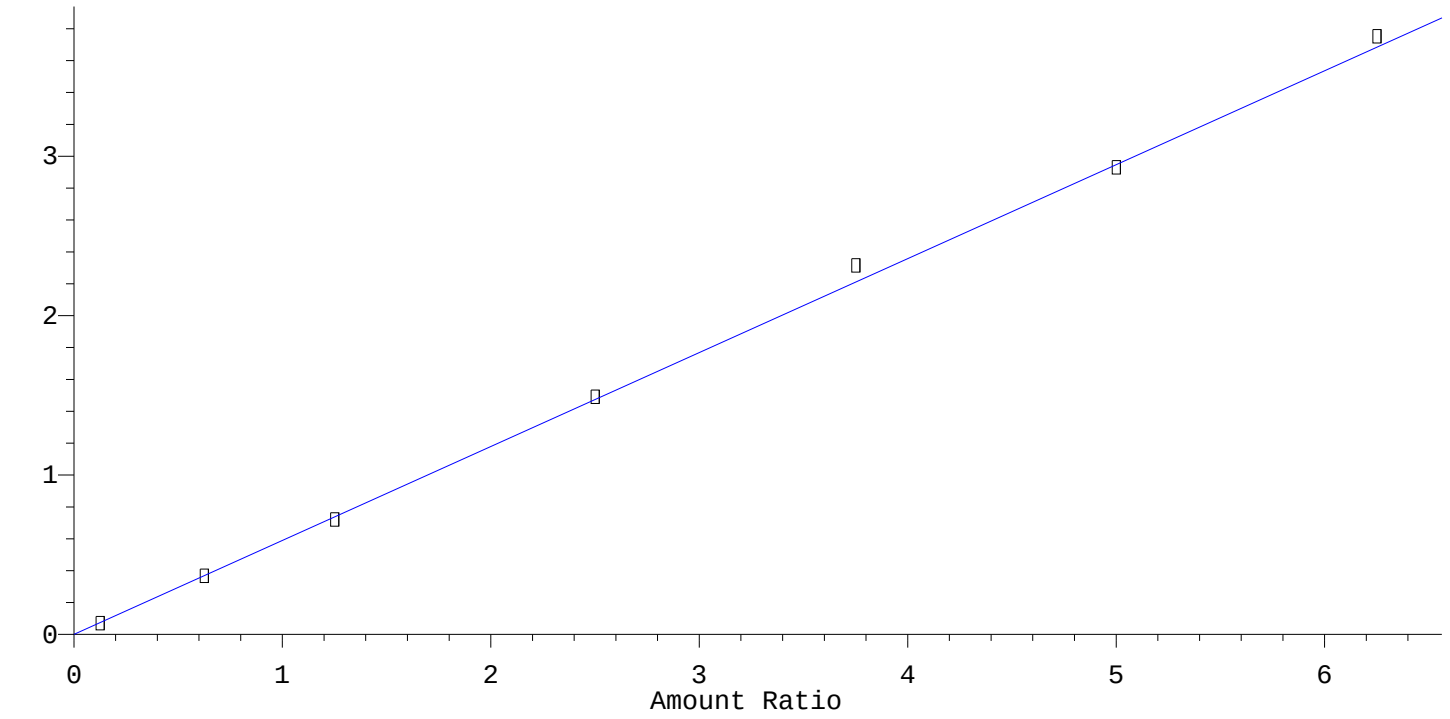

Resp Ratio = 1.874e+000 * Amt
RF Rel Std Dev = 2.543%  Curve Fit: Avg RF

bis2Clethletr



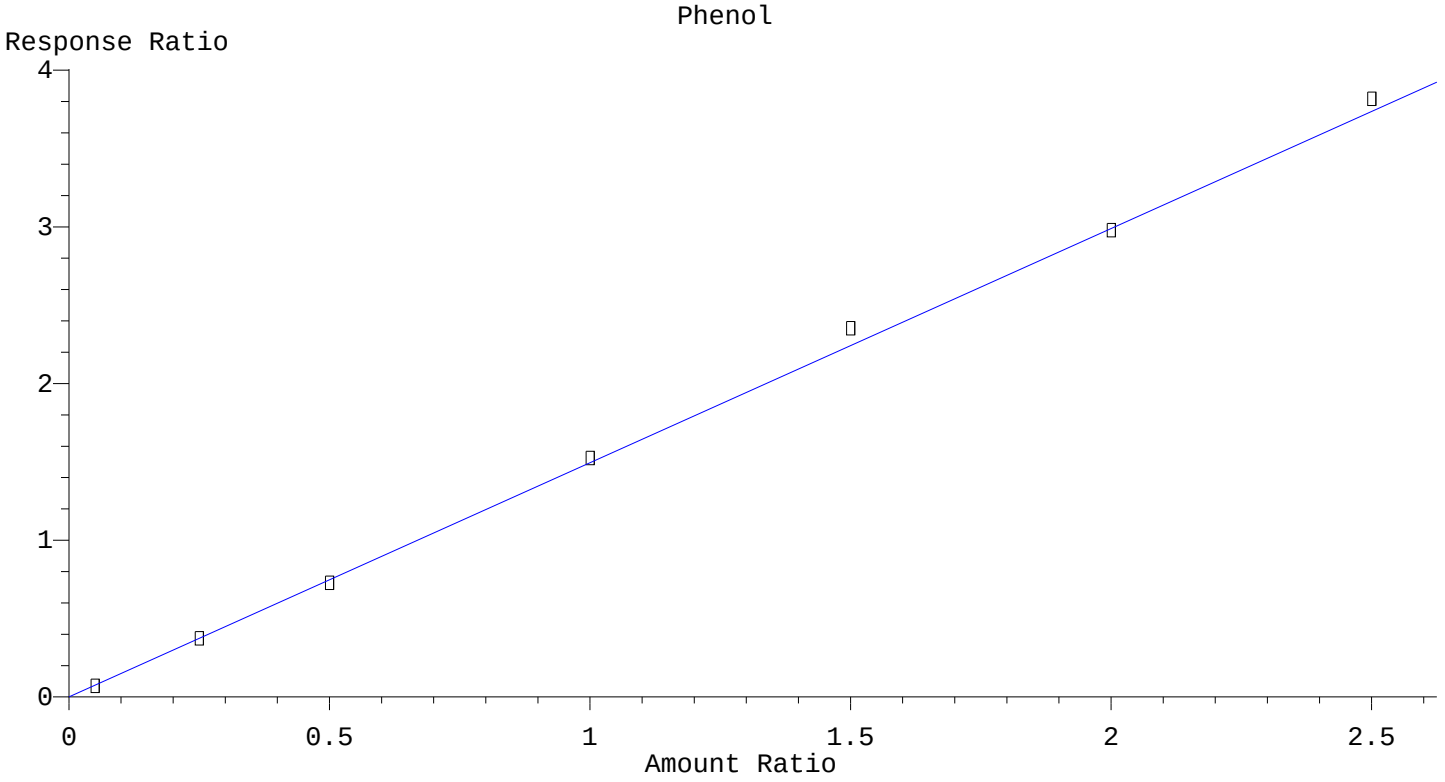

Resp Ratio = 1.234e+000 * Amt
RF Rel Std Dev = 1.958%  Curve Fit: Avg RF

SURRPhenol-d5



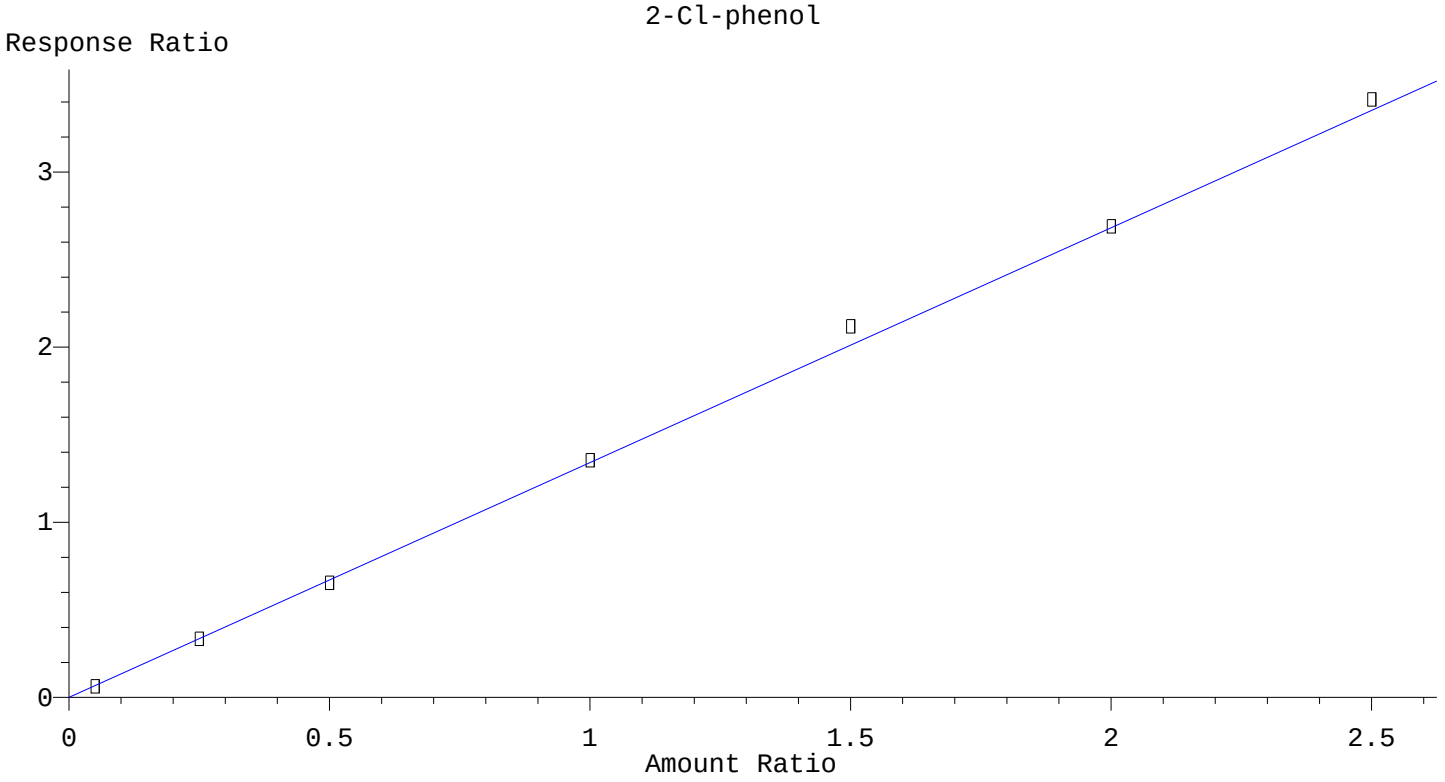

Resp Ratio = 5.895e-001 * Amt
RF Rel Std Dev = 2.974%  Curve Fit: Avg RF

Phenol

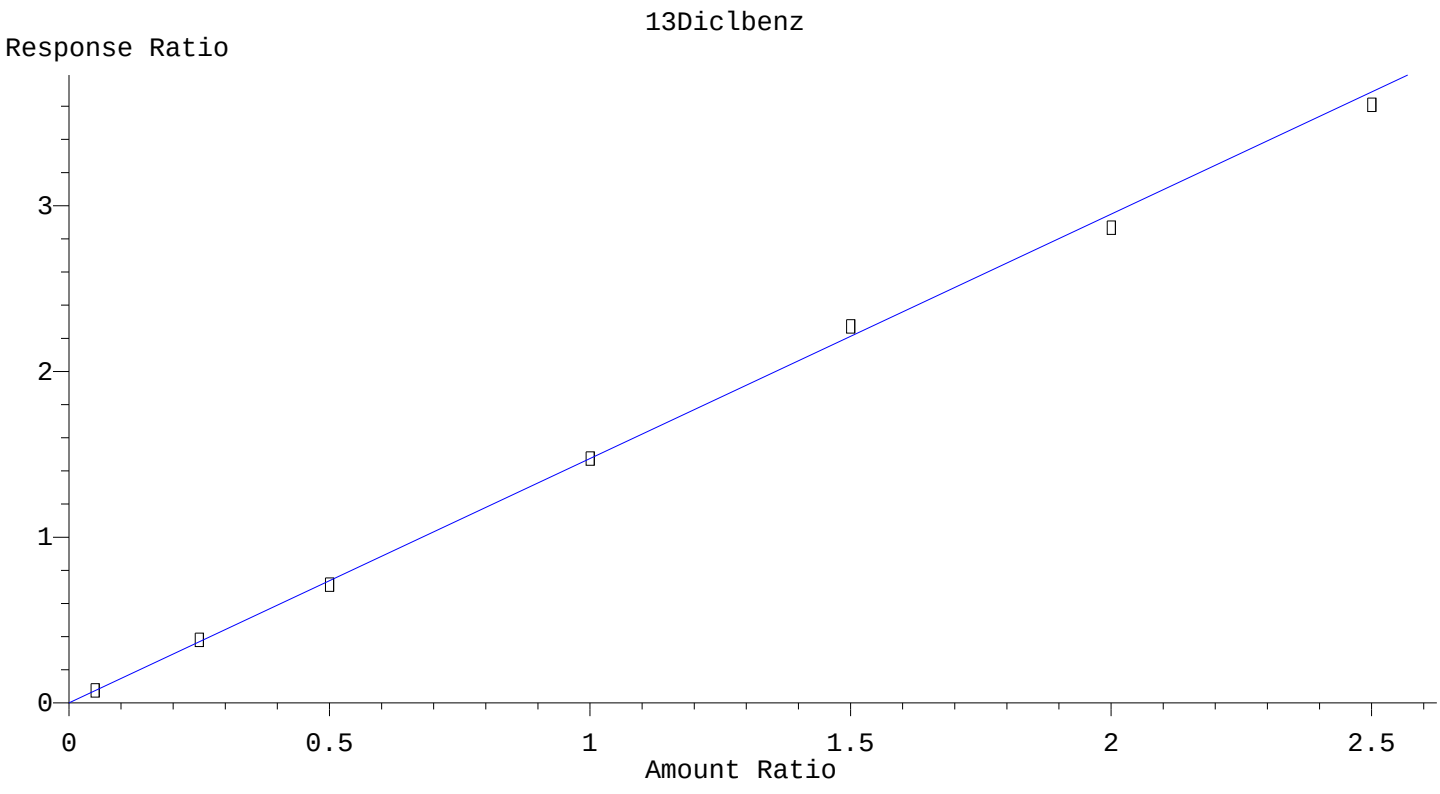



Resp Ratio = 1.495e+000 * Amt
RF Rel Std Dev = 3.624%  Curve Fit: Avg RF

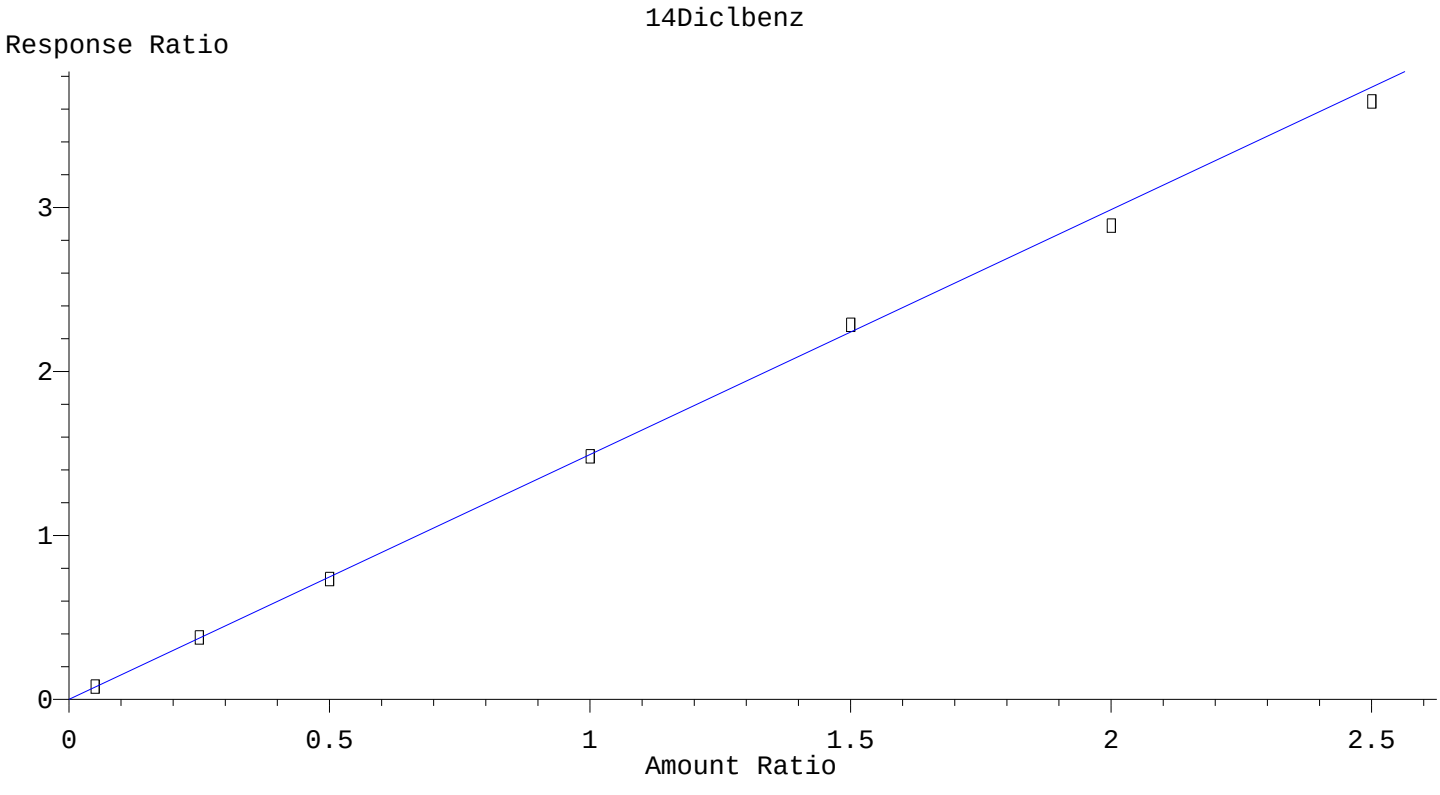
2-Cl-phenol



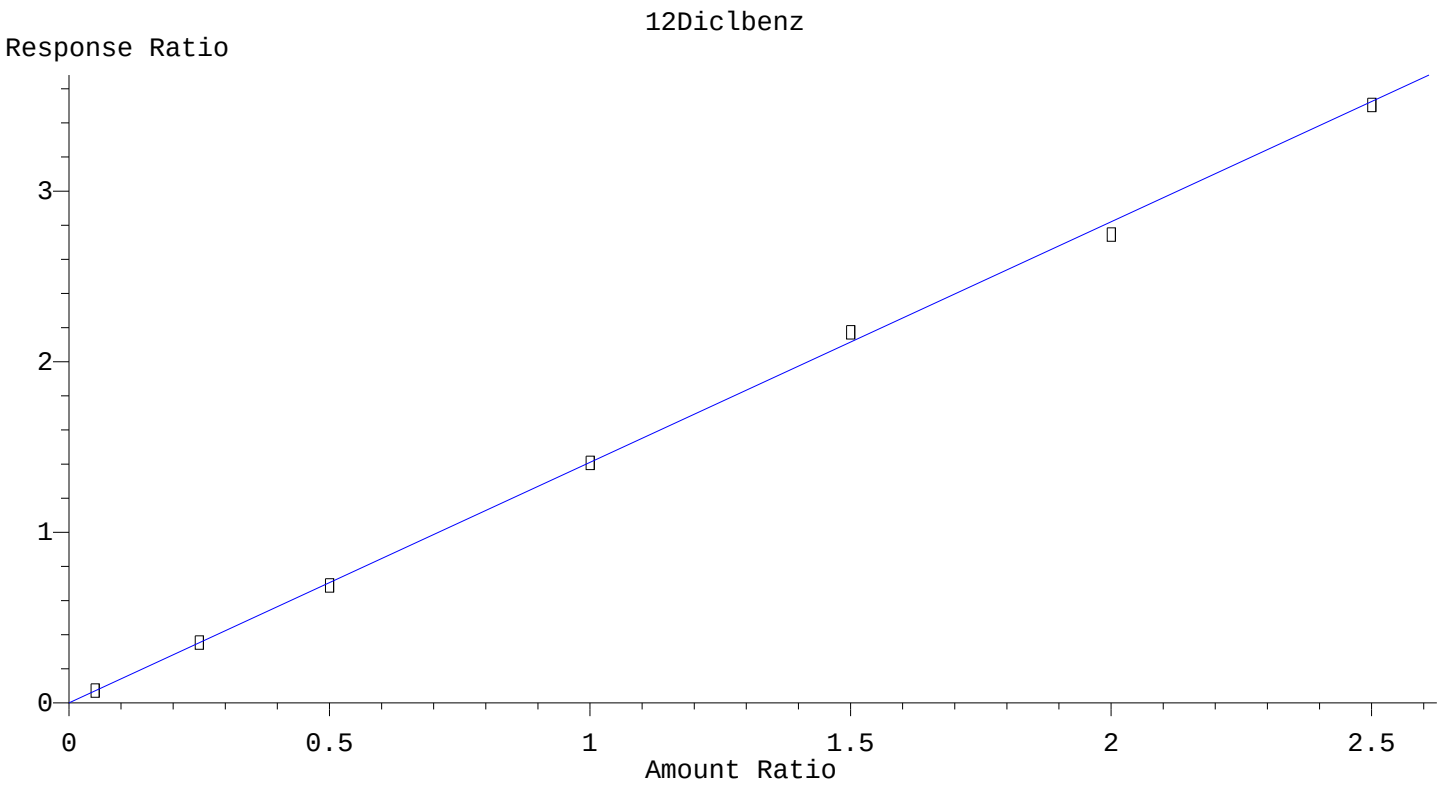

Resp Ratio = 1.341e+000 * Amt
RF Rel Std Dev = 3.488%  Curve Fit: Avg RF



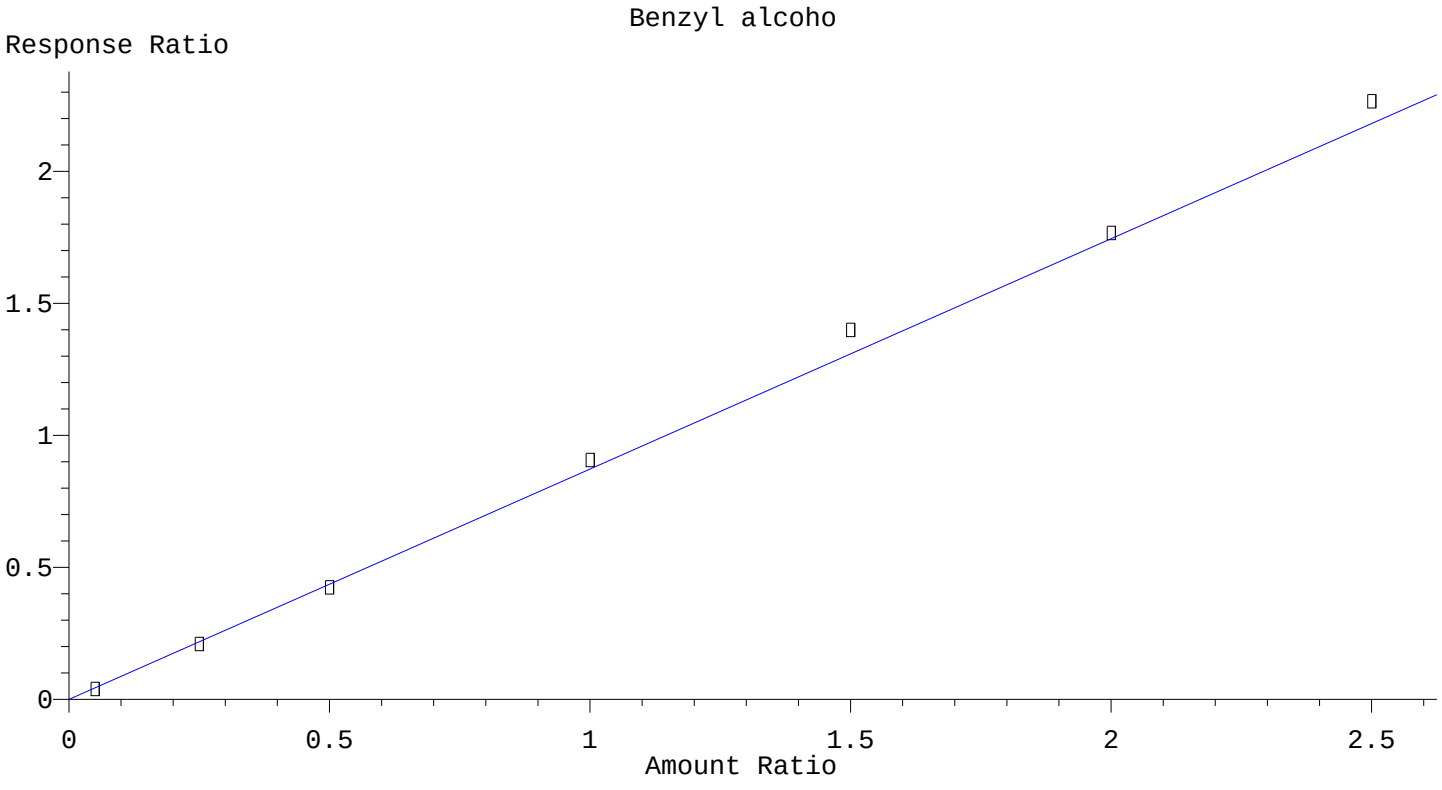

Resp Ratio = 1.475e+000 * Amt
RF Rel Std Dev = 2.788%  Curve Fit: Avg RF




Resp Ratio = 1.493e+000 * Amt
RF Rel Std Dev = 2.867%  Curve Fit: Avg RF

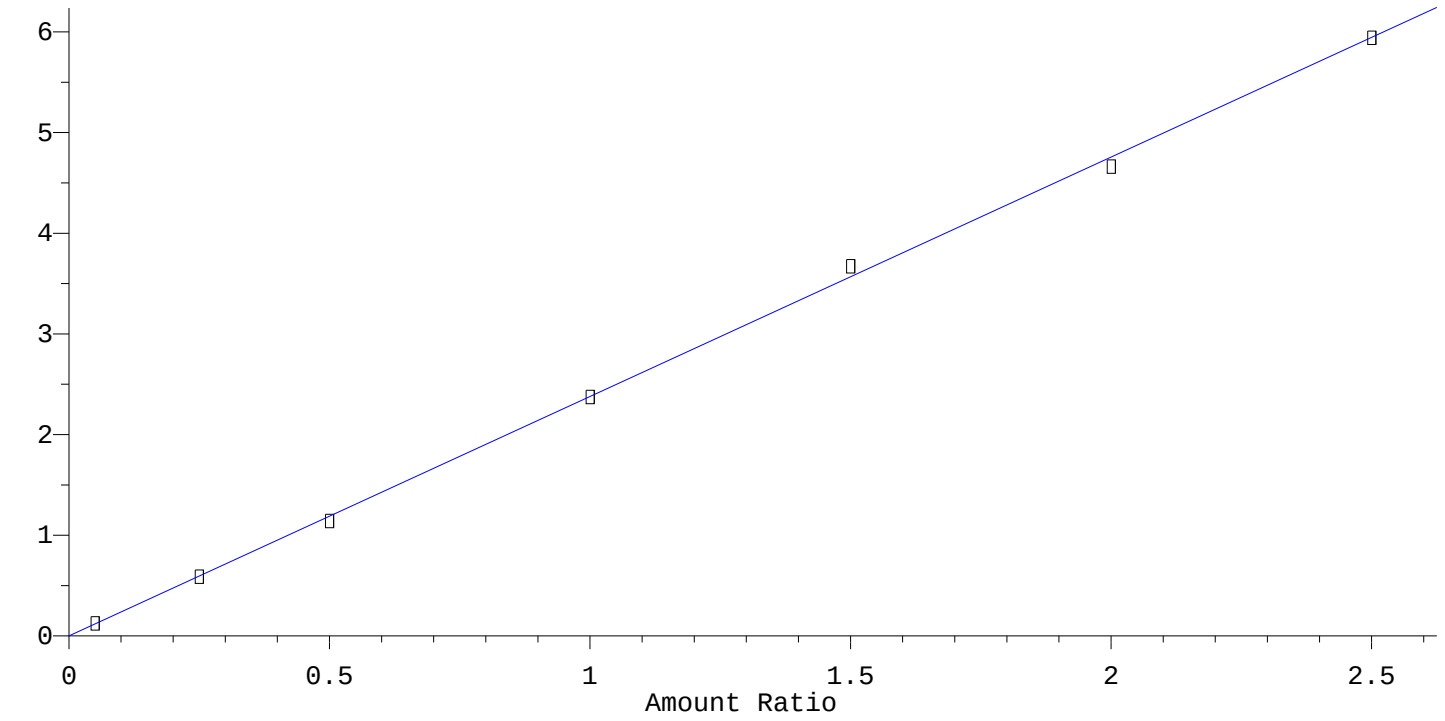



Resp Ratio = 1.410e+000 * Amt
RF Rel Std Dev = 2.152%  Curve Fit: Avg RF



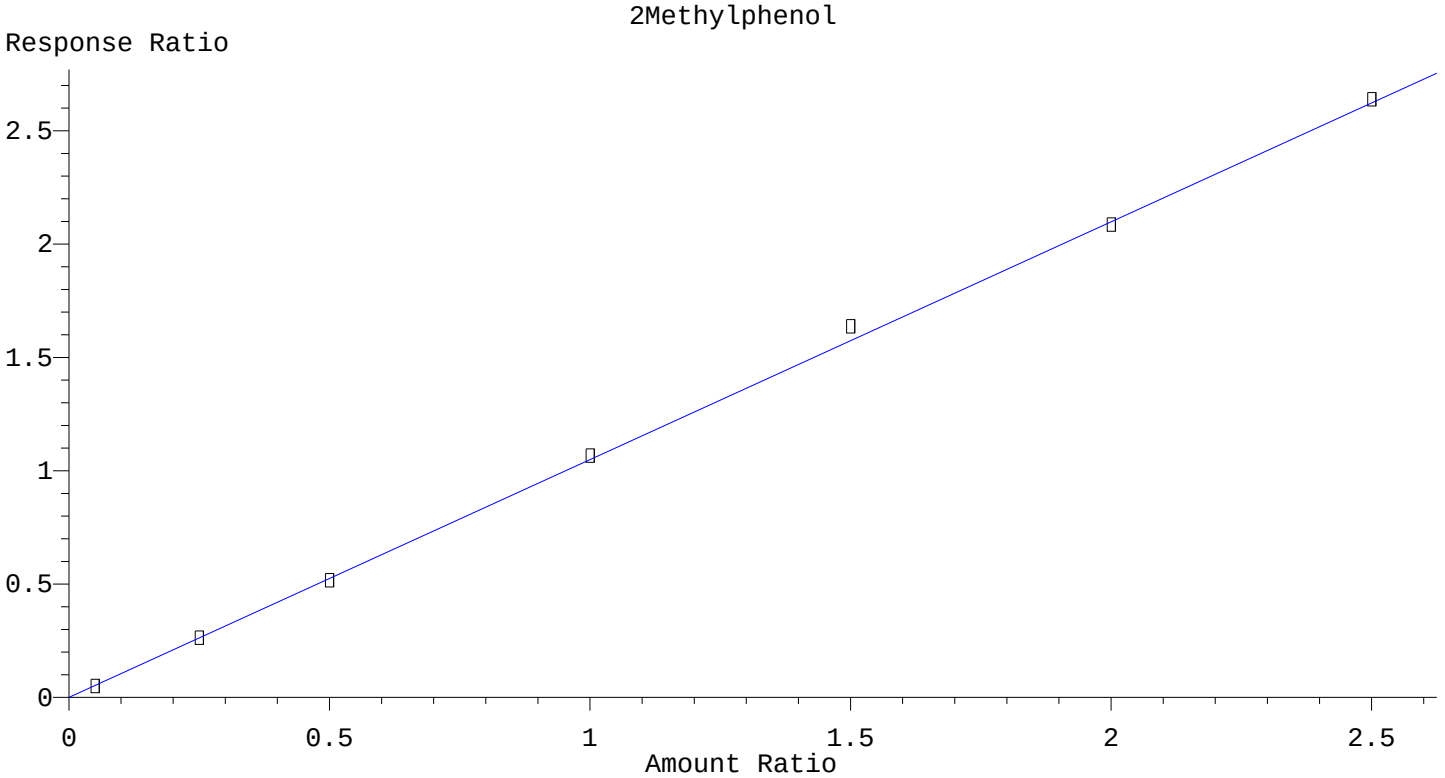

Resp Ratio = 8.722e-001 * Amt
RF Rel Std Dev = 5.706%  Curve Fit: Avg RF

bis2clispreth



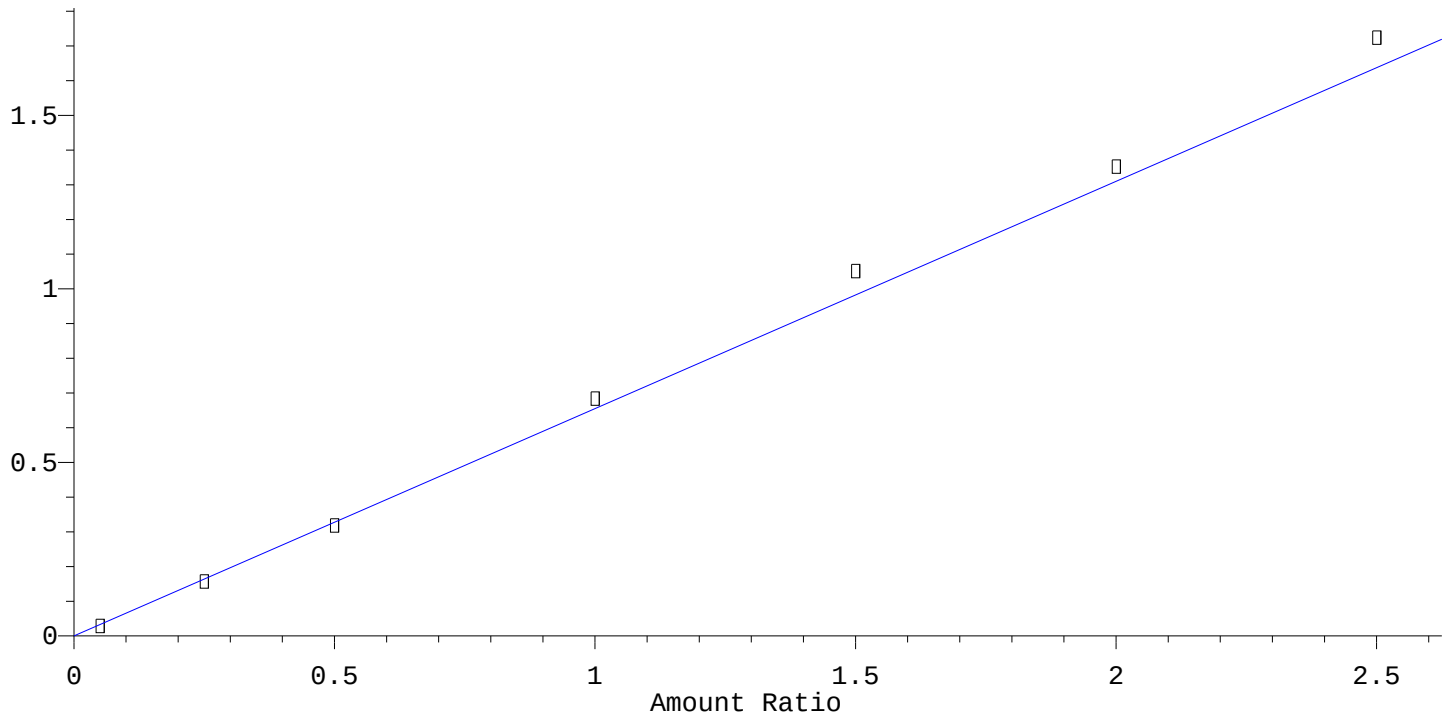

Resp Ratio = 2.378e+000 * Amt
RF Rel Std Dev = 2.881%  Curve Fit: Avg RF

2Methylphenol



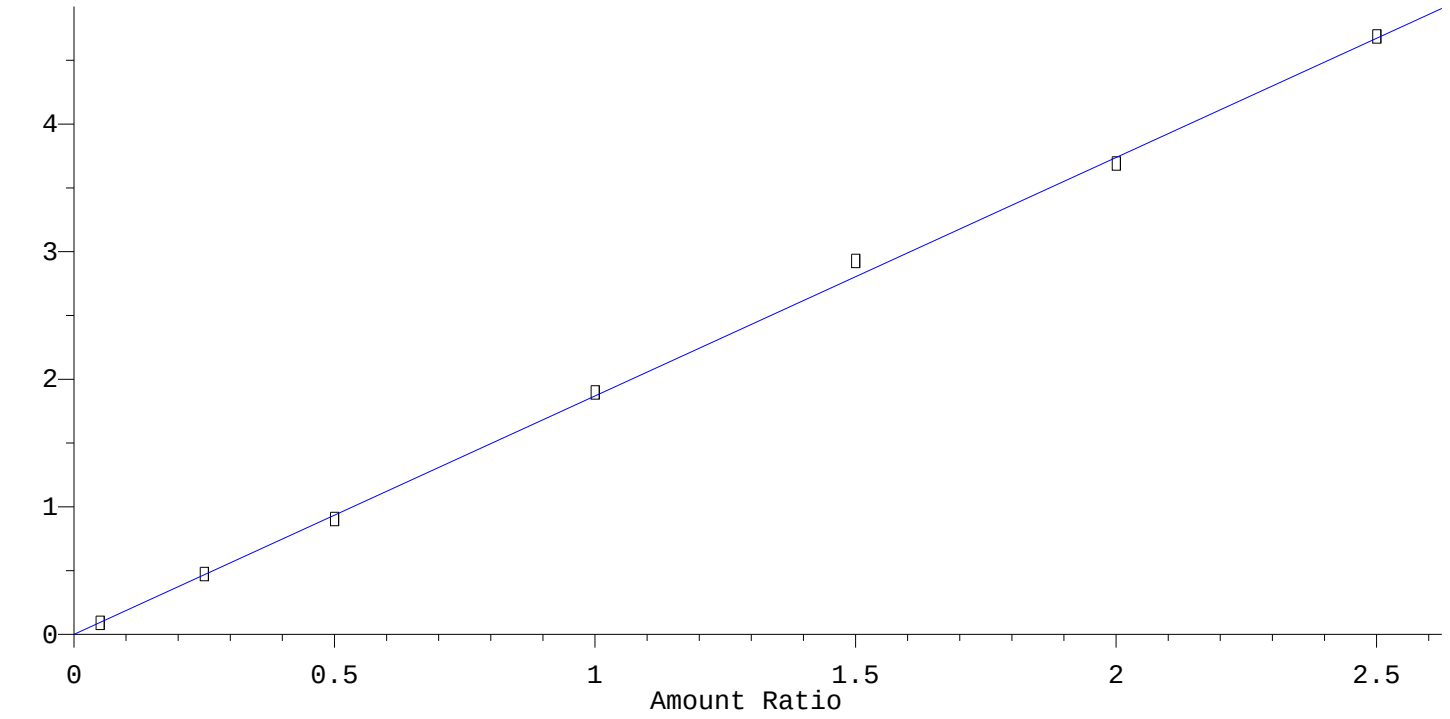

Resp Ratio = 1.049e+000 * Amt
RF Rel Std Dev = 2.622%  Curve Fit: Avg RF

Ntrspyrrol



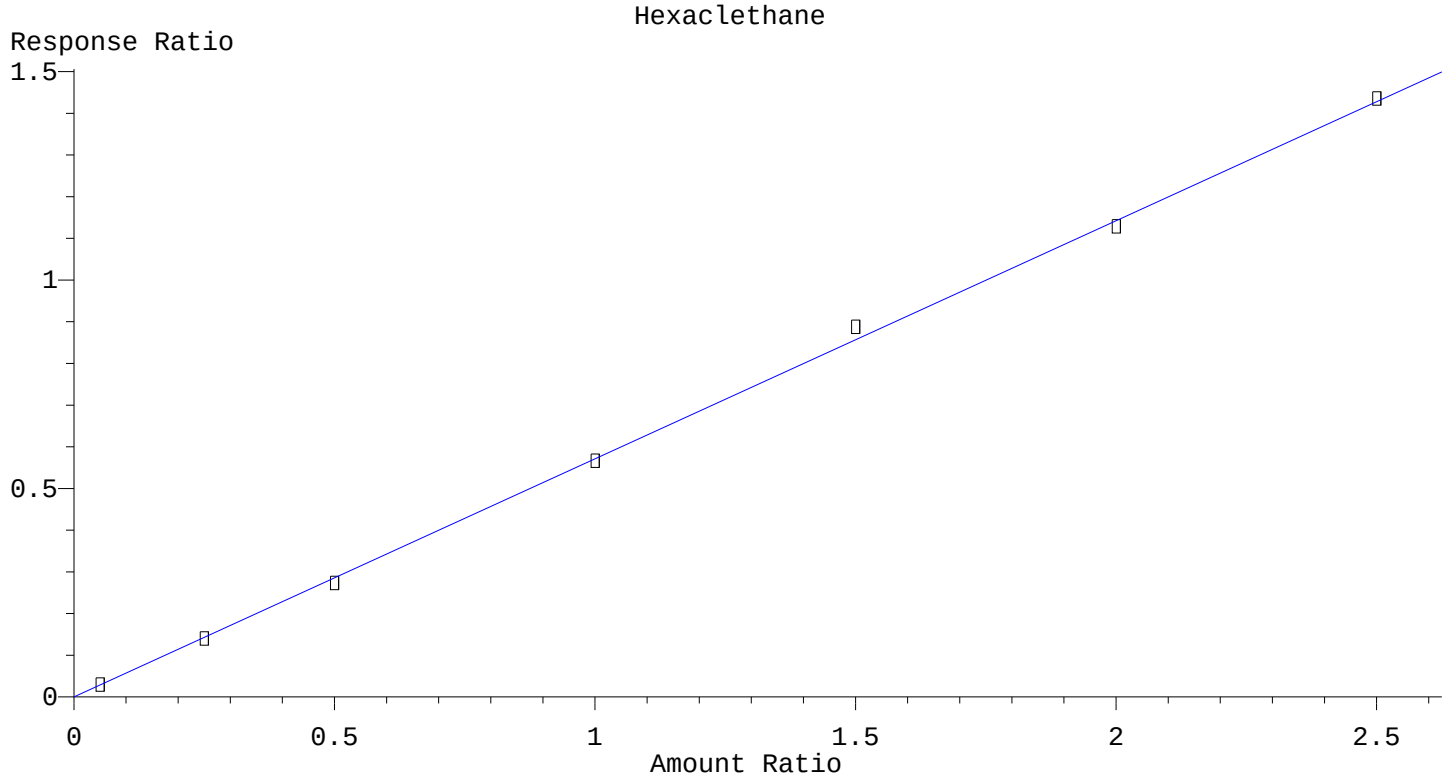

Resp Ratio = 6.549e-001 * Amt
RF Rel Std Dev = 7.049%  Curve Fit: Avg RF

Acetophenone



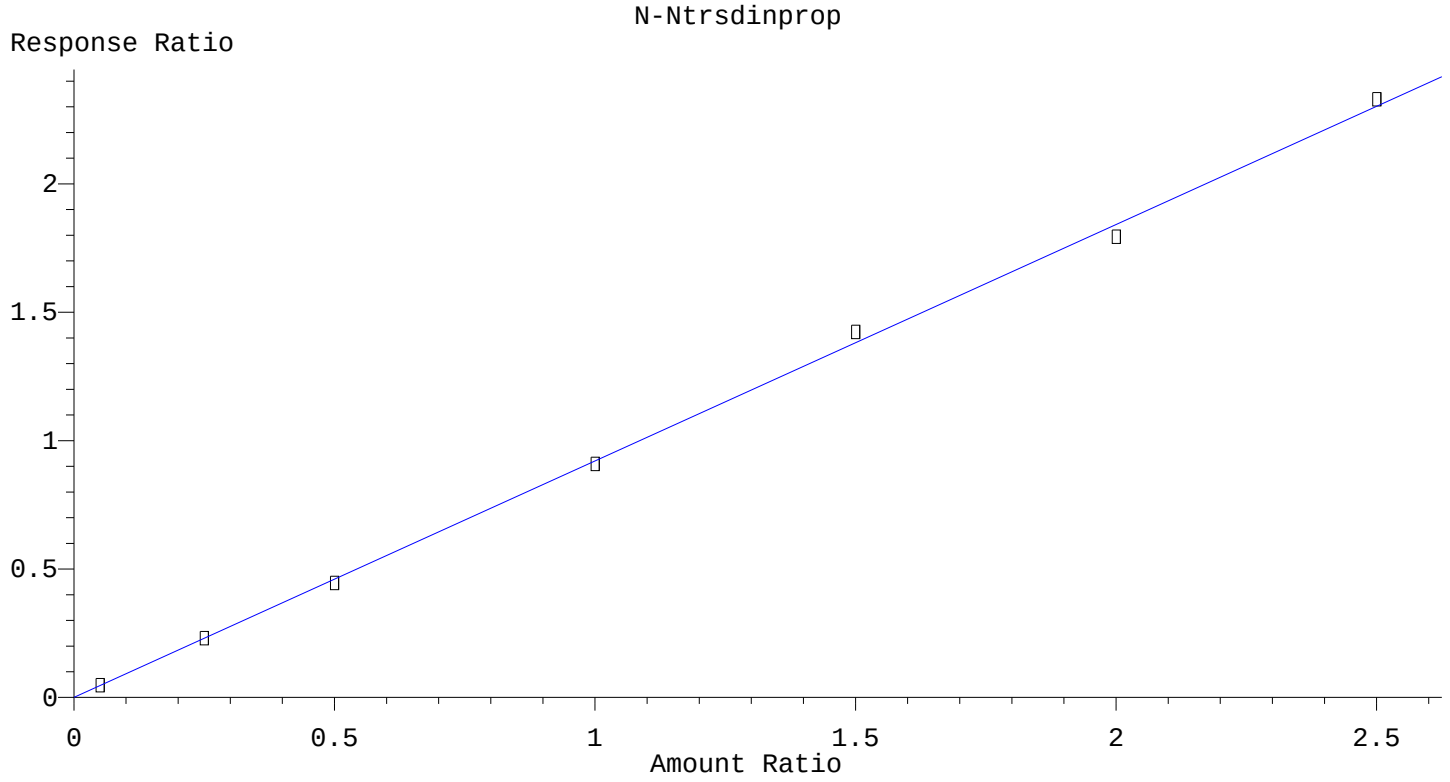

Resp Ratio = 1.869e+000 * Amt
RF Rel Std Dev = 2.689%  Curve Fit: Avg RF

Hexaclethane

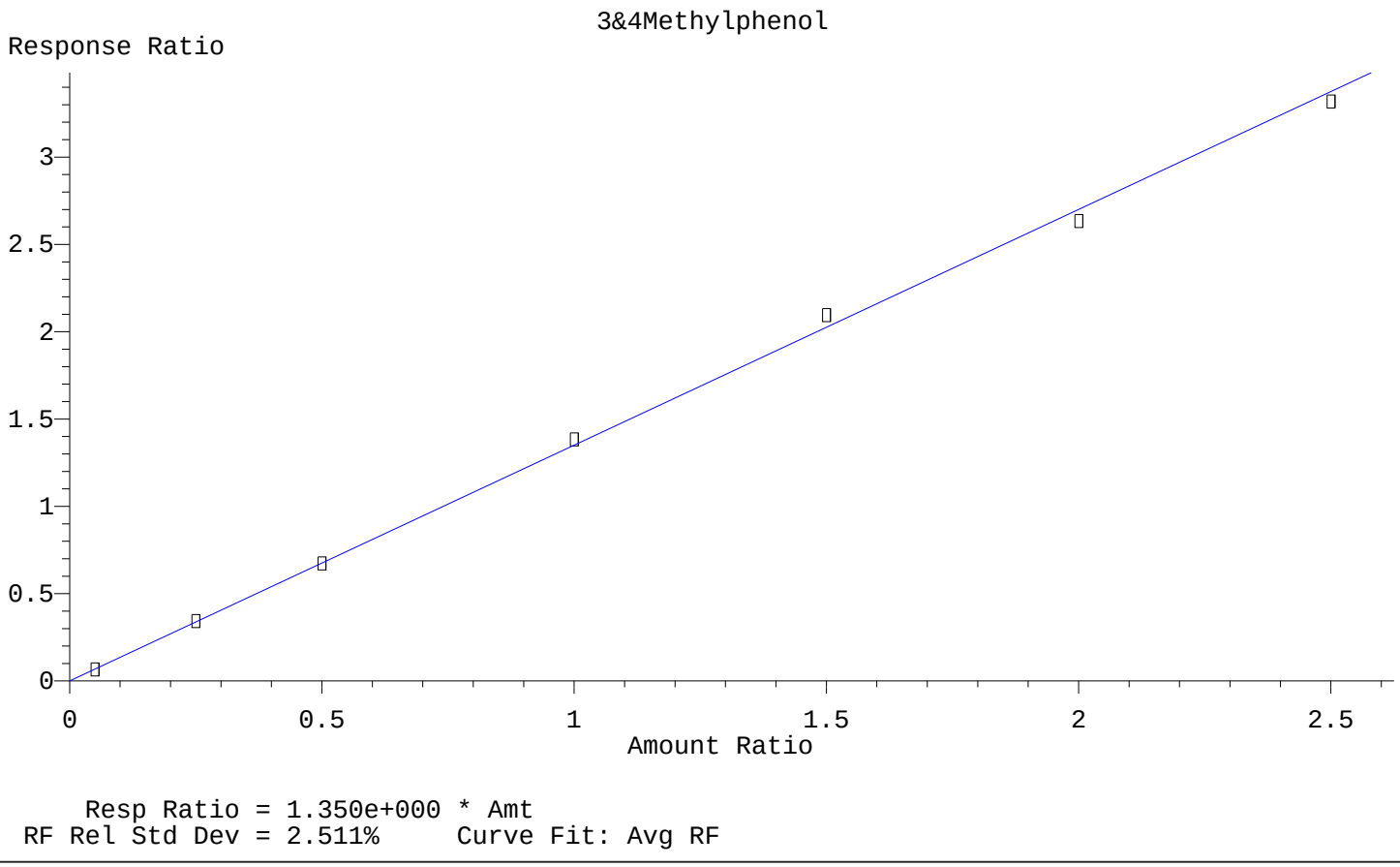



Resp Ratio = 5.710e-001 * Amt
RF Rel Std Dev = 2.961%  Curve Fit: Avg RF

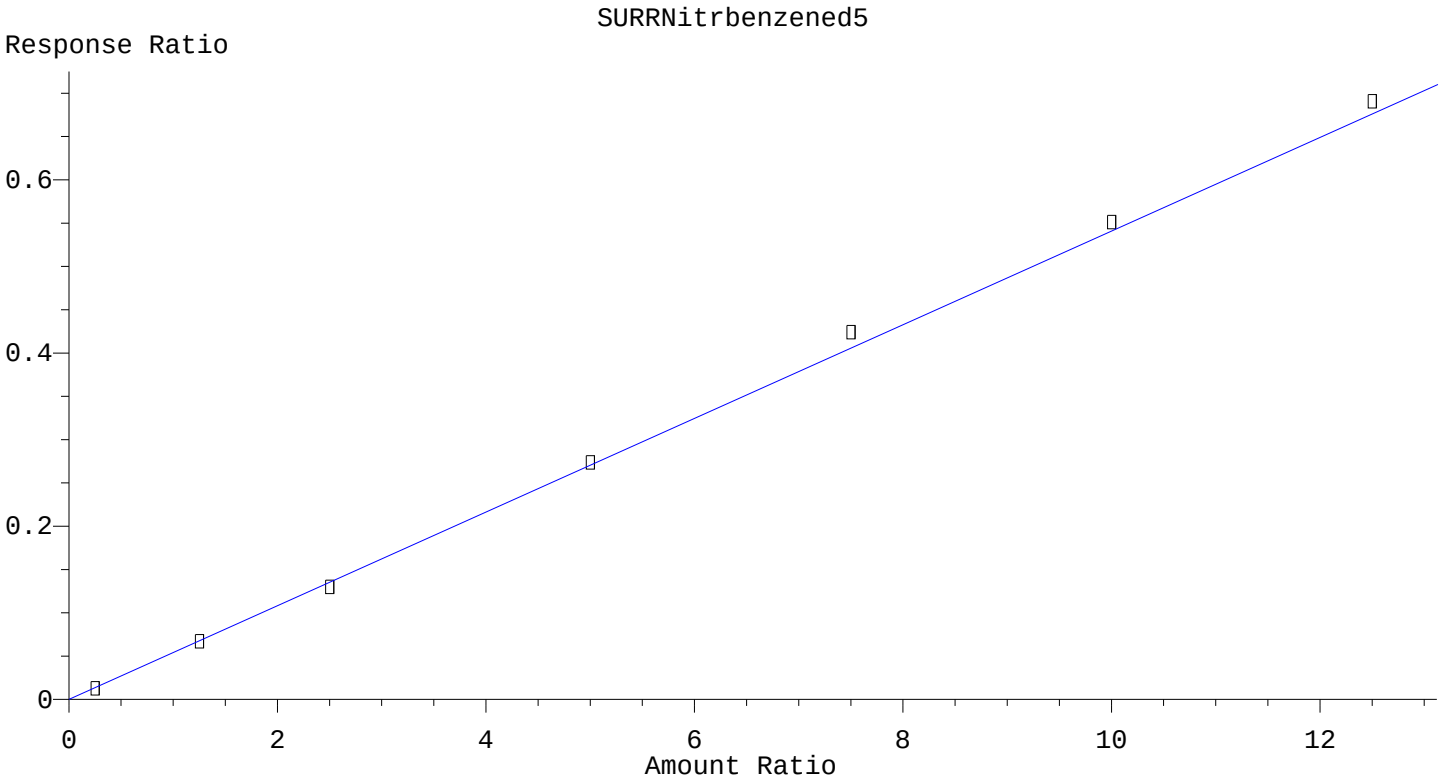
N-Ntrsdinprop



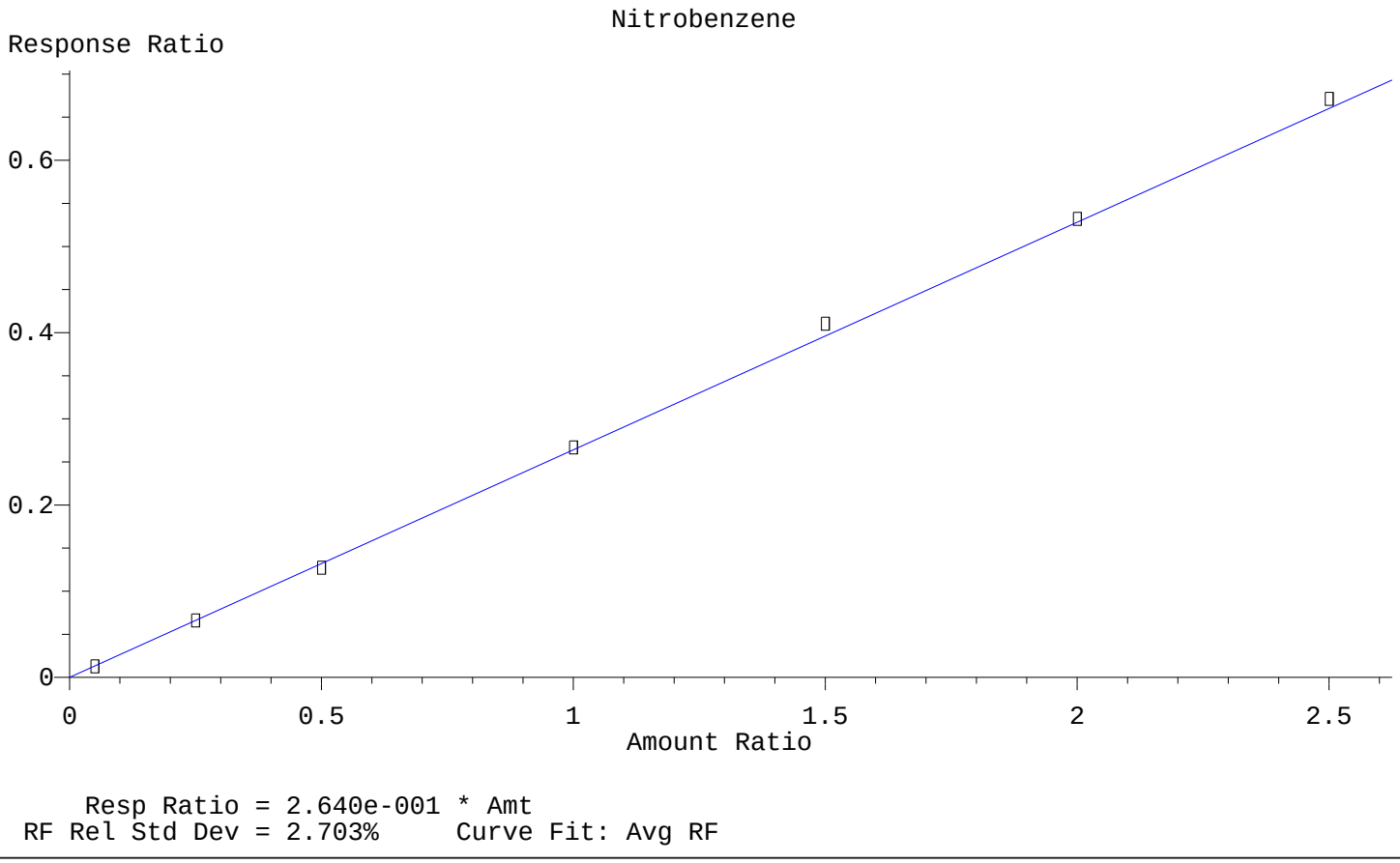

Resp Ratio = 9.206e-001 * Amt
RF Rel Std Dev = 2.464%  Curve Fit: Avg RF



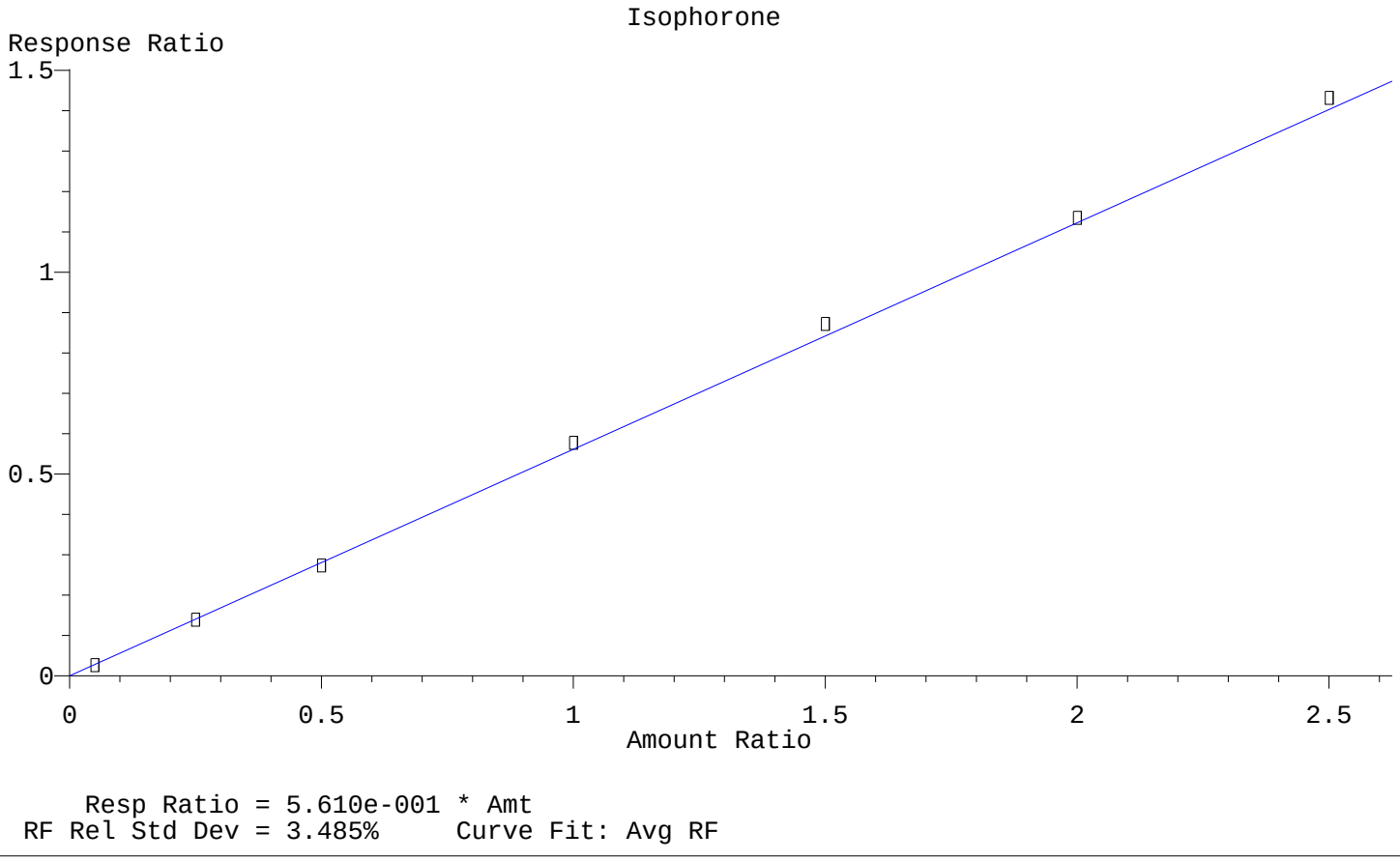

Resp Ratio = 1.350e+000 * Amt
RF Rel Std Dev = 2.511%  Curve Fit: Avg RF



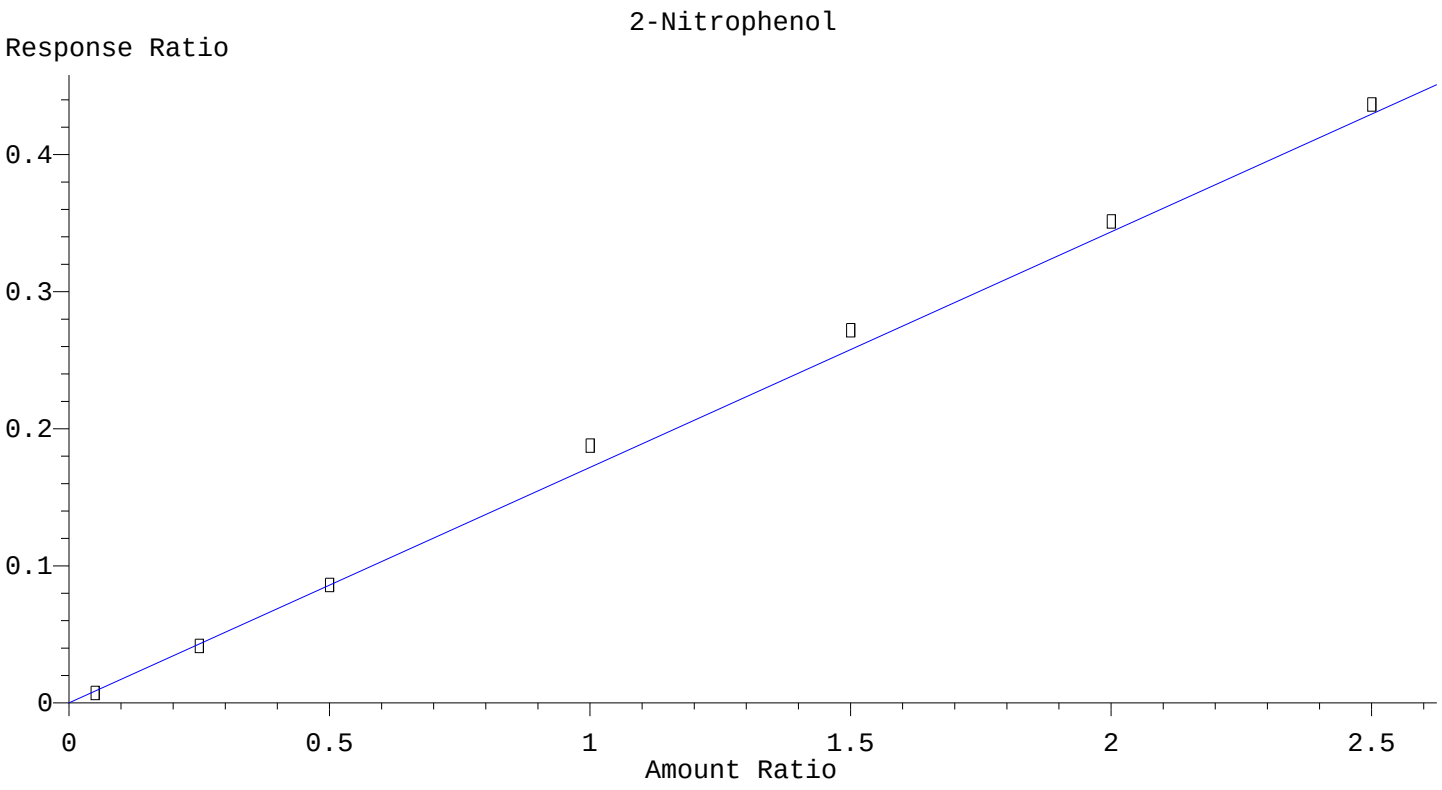

Resp Ratio = 5.407e-002 * Amt
RF Rel Std Dev = 3.485%  Curve Fit: Avg RF



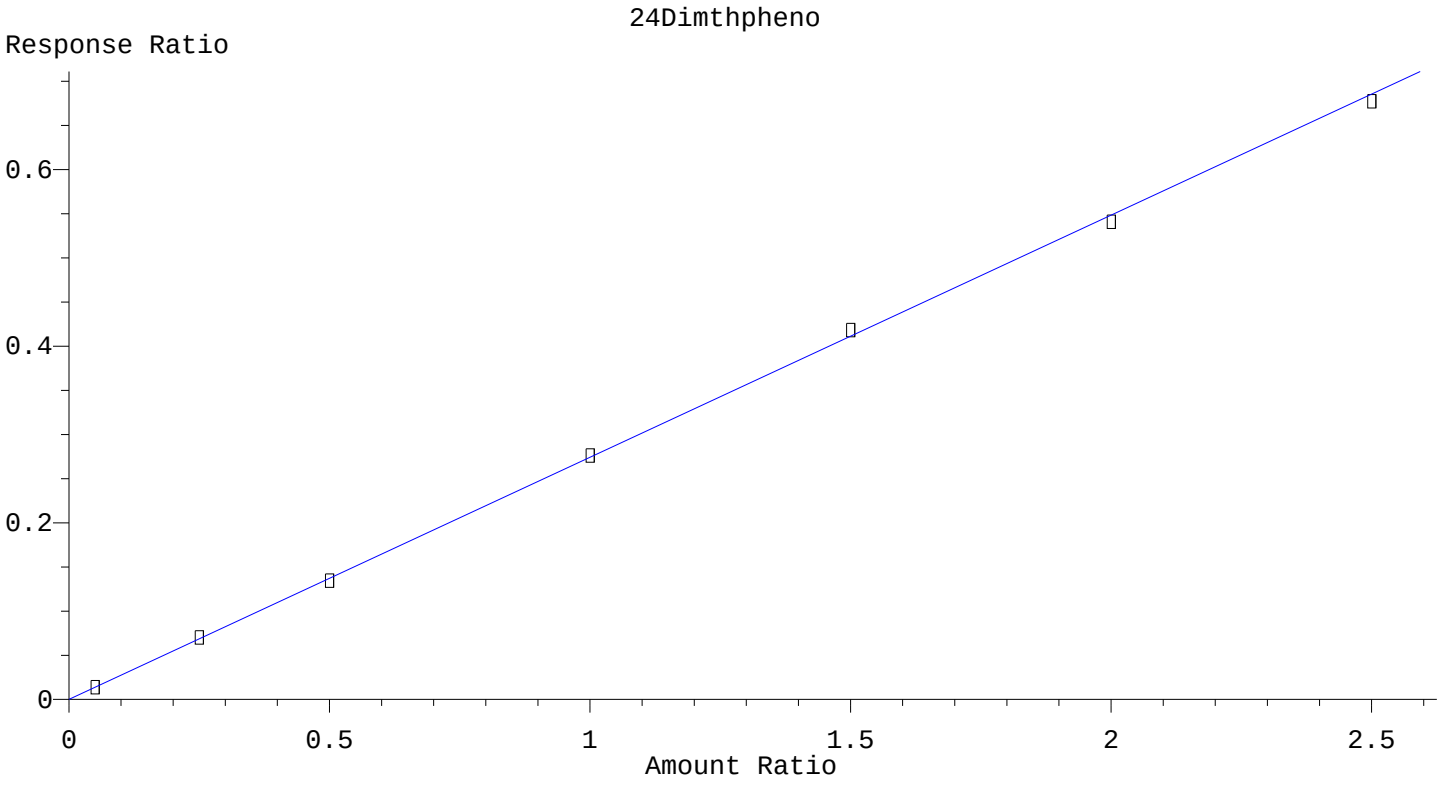

Resp Ratio = 2.640e-001 * Amt
RF Rel Std Dev = 2.703%  Curve Fit: Avg RF



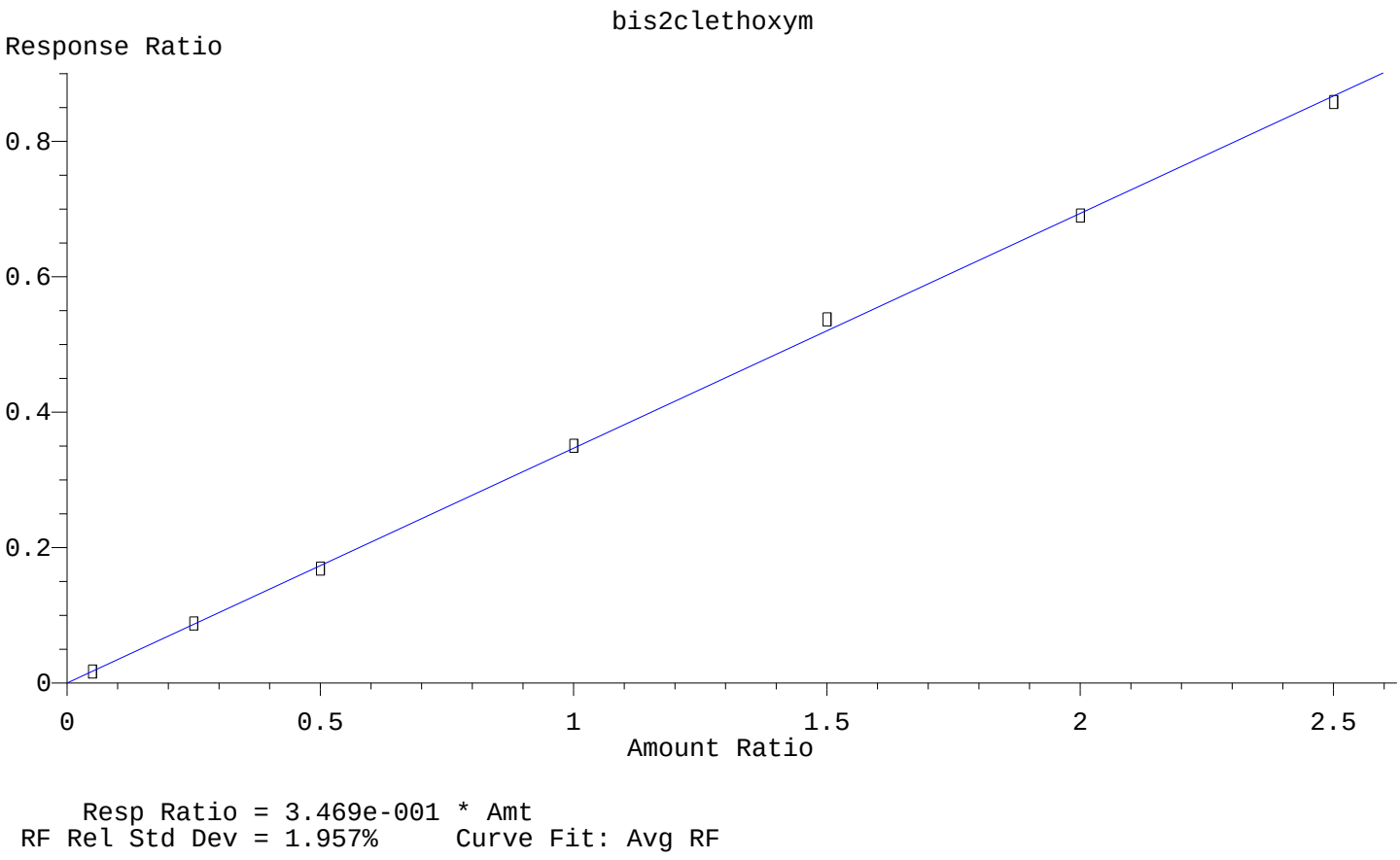

Resp Ratio = 5.610e-001 * Amt
RF Rel Std Dev = 3.485%  Curve Fit: Avg RF



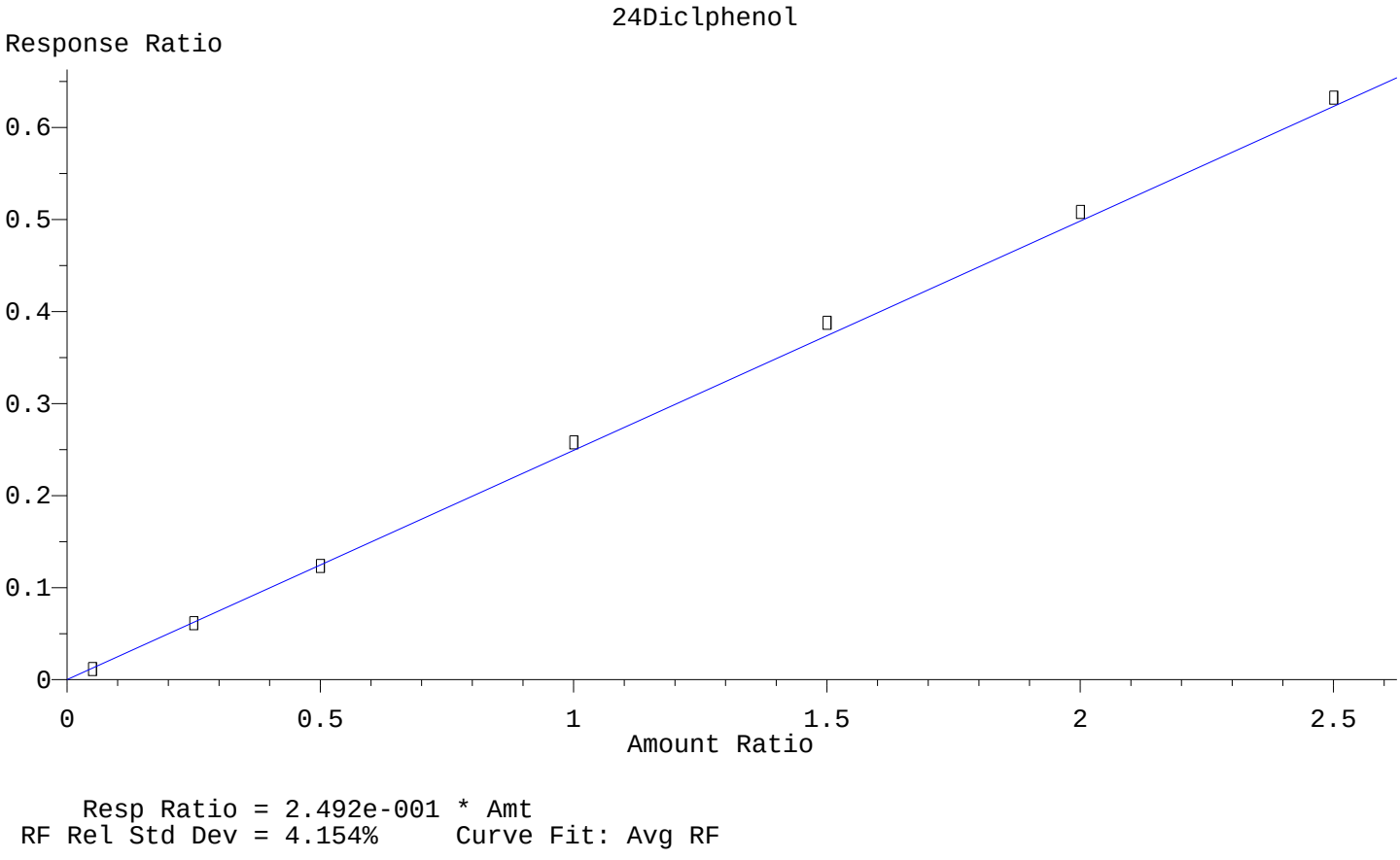

Resp Ratio = 1.716e-001 * Amt
RF Rel Std Dev = 8.133%  Curve Fit: Avg RF



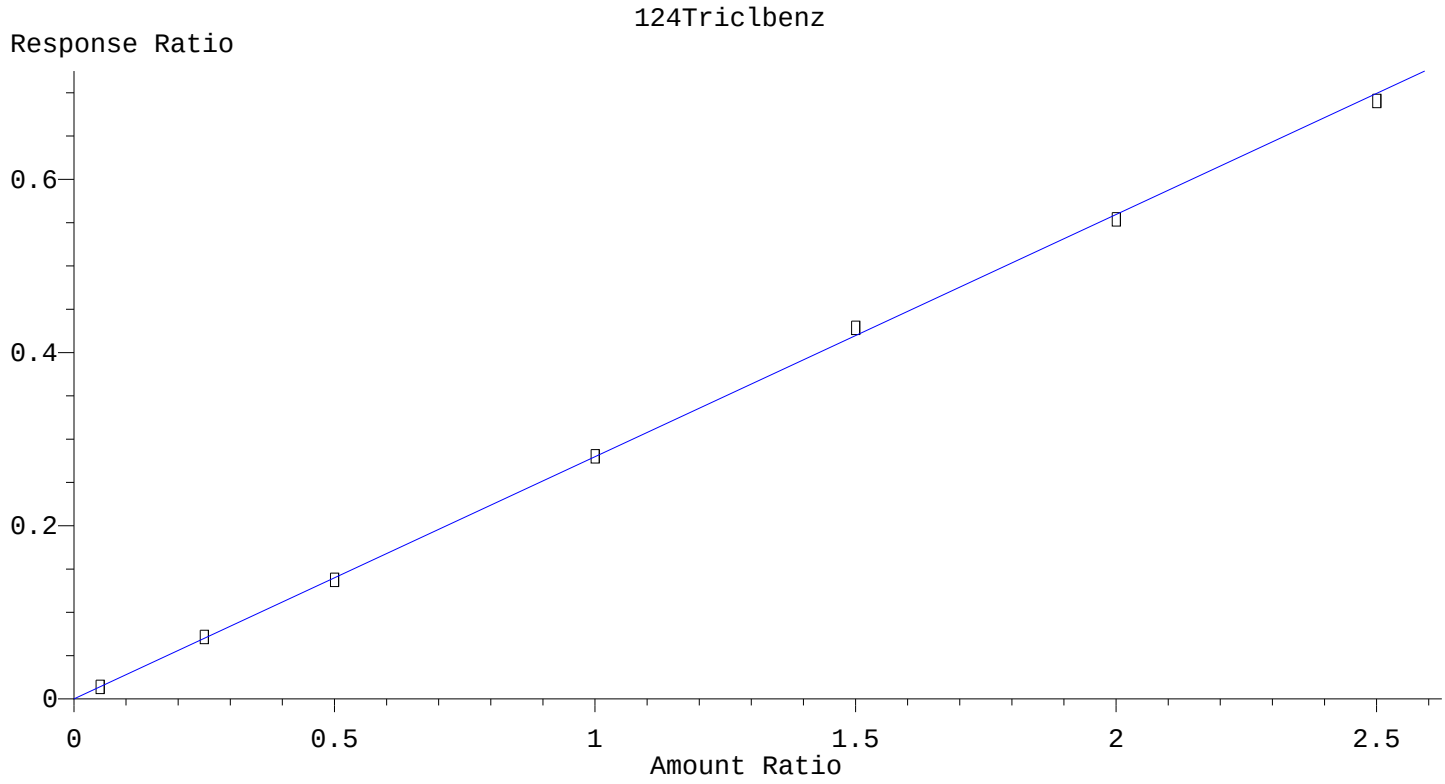

Resp Ratio = 2.743e-001 * Amt
RF Rel Std Dev = 1.649%  Curve Fit: Avg RF



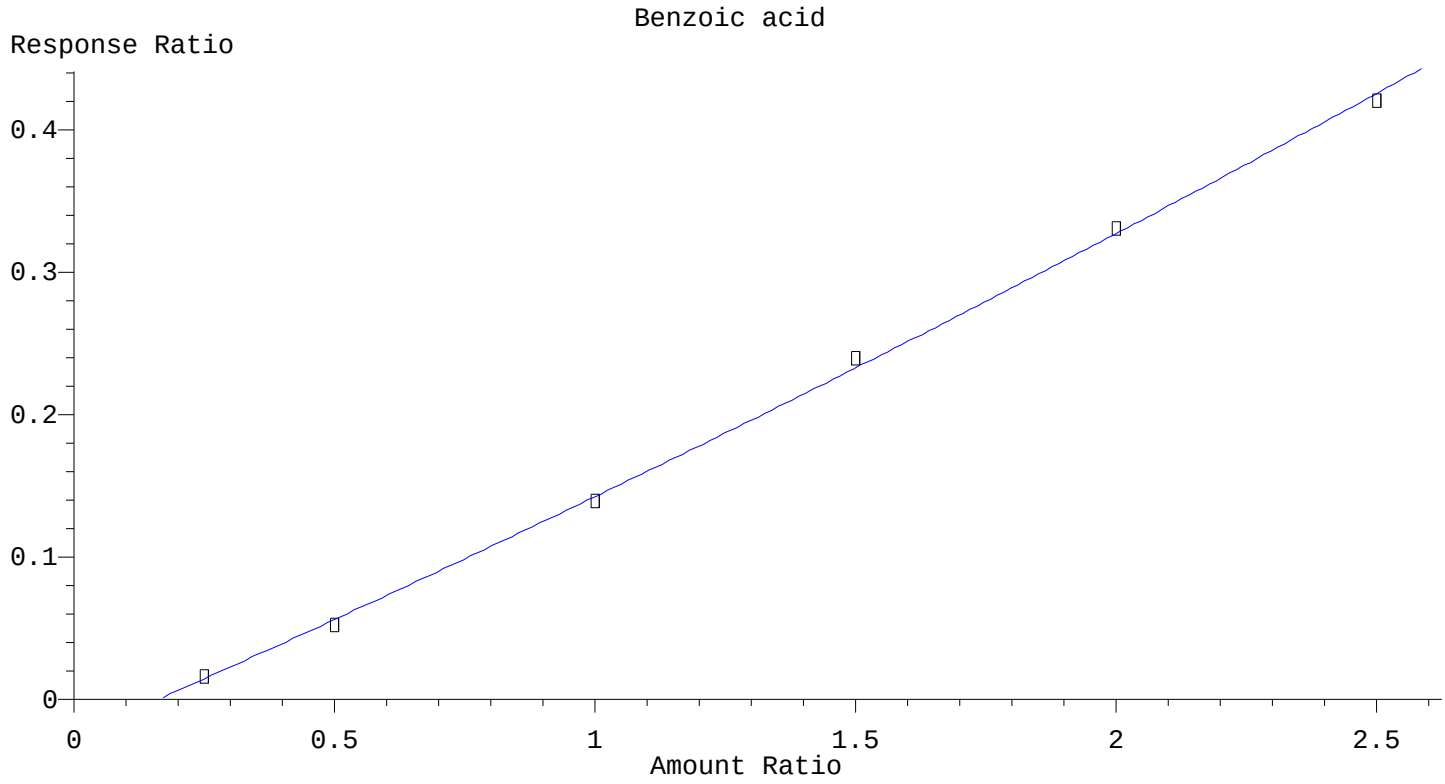

Resp Ratio = 3.469e-001 * Amt
RF Rel Std Dev = 1.957%  Curve Fit: Avg RF



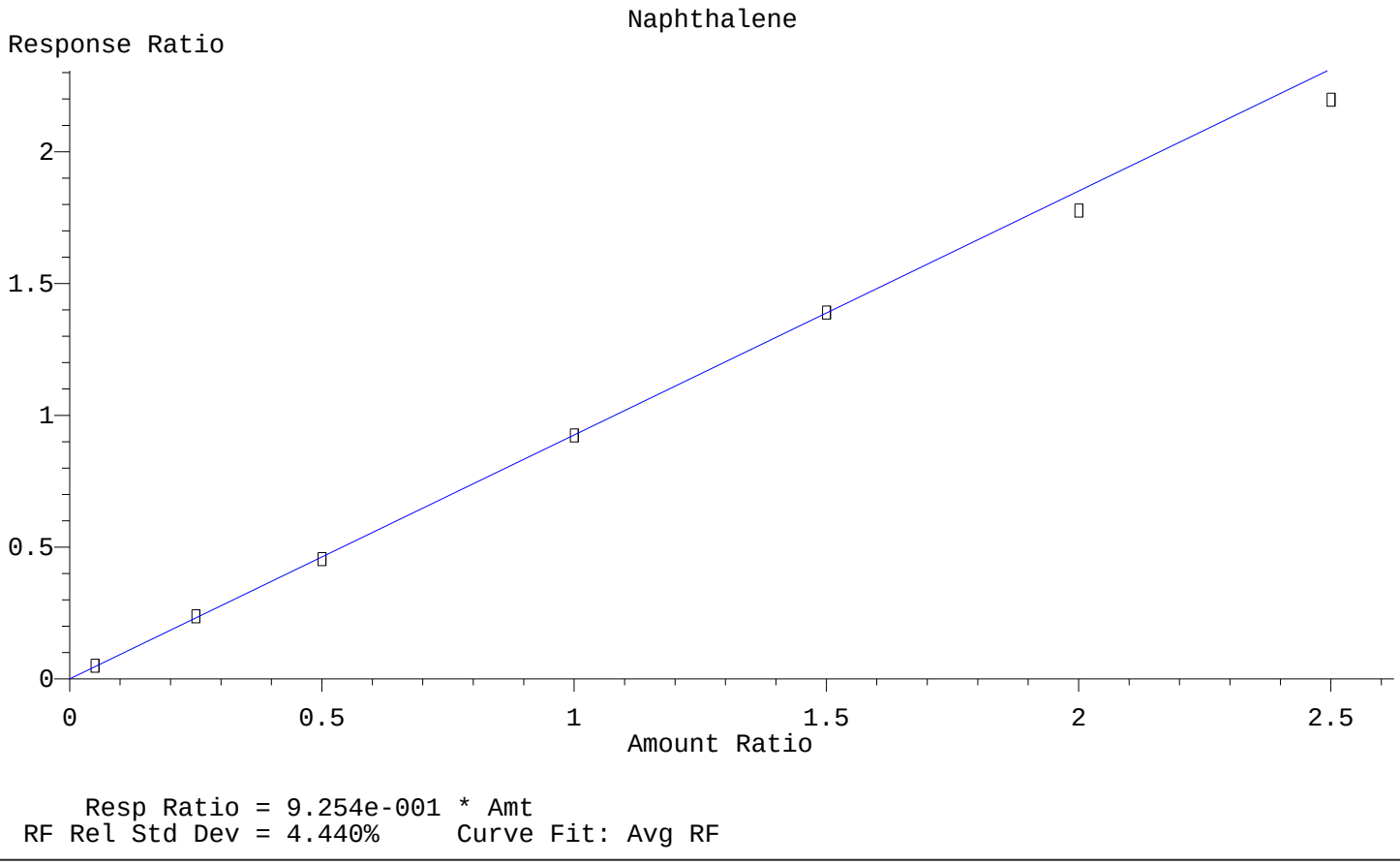

Resp Ratio = 2.492e-001 * Amt
RF Rel Std Dev = 4.154%  Curve Fit: Avg RF



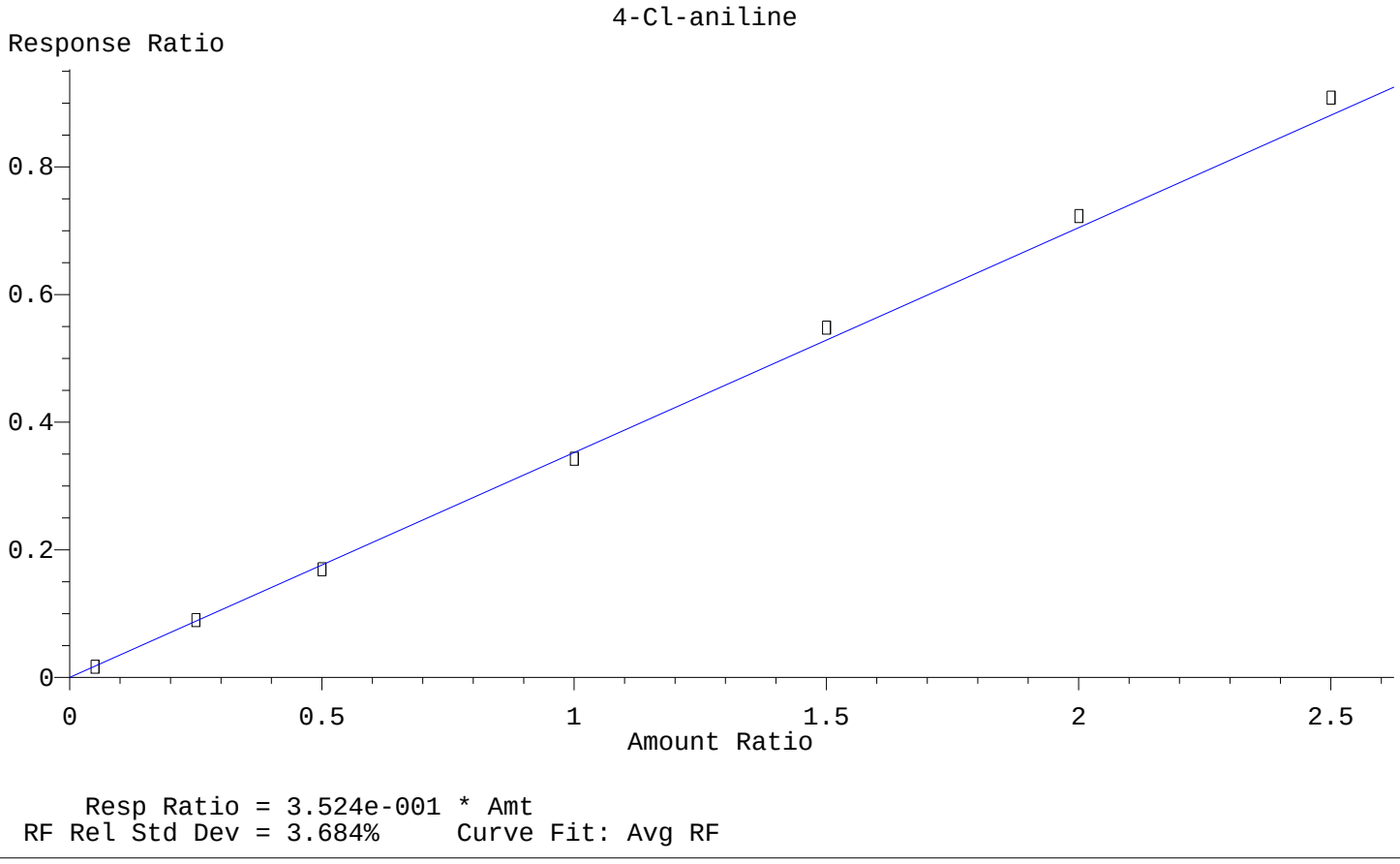

Resp Ratio = 2.797e-001 * Amt
RF Rel Std Dev = 1.610%  Curve Fit: Avg RF



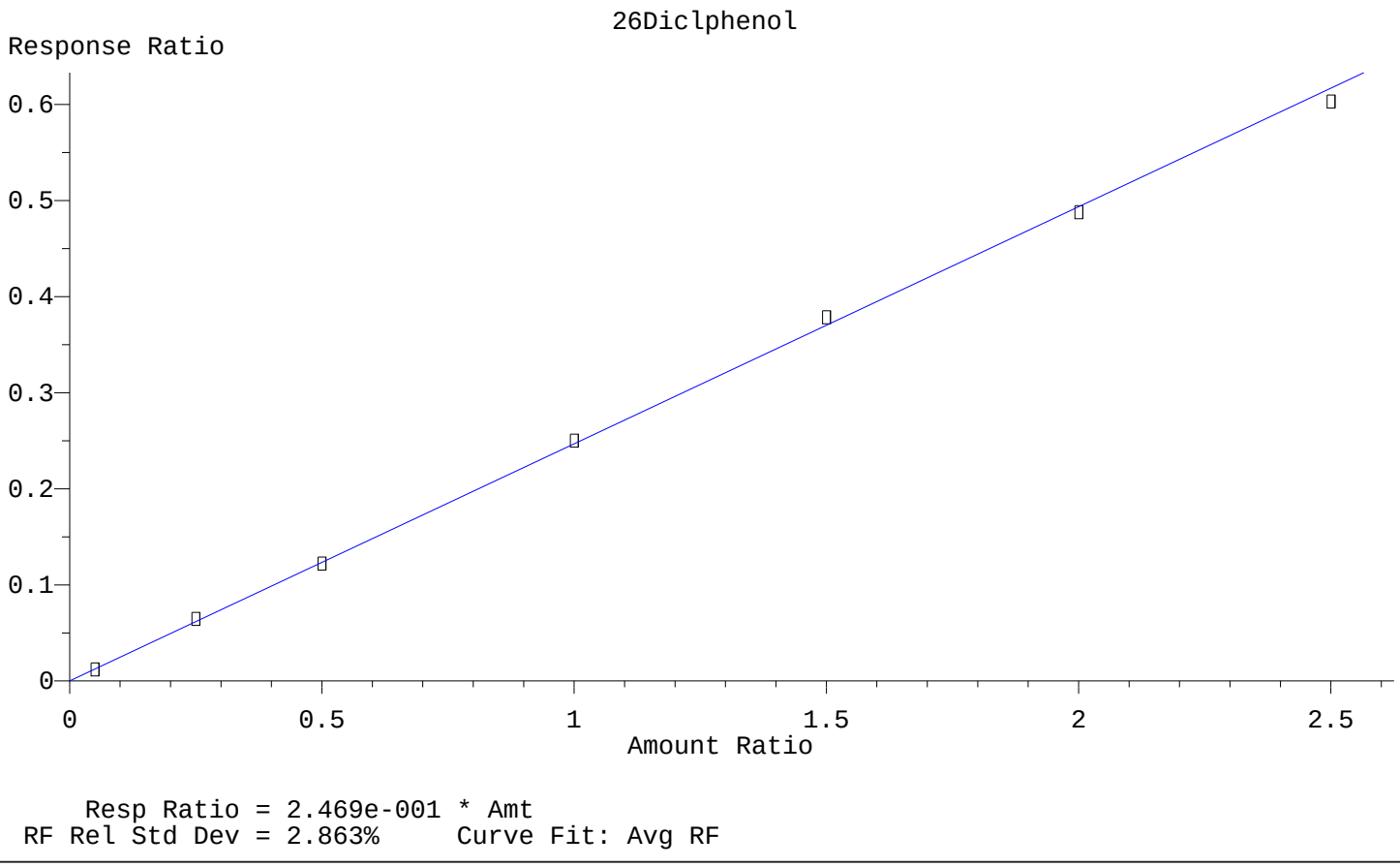

R = 8.097e-003 A*A + 1.605e-001 A - 2.614e-002
Coef of Det (r^2) = 0.999  Curve Fit: Quadratic w(1/a)



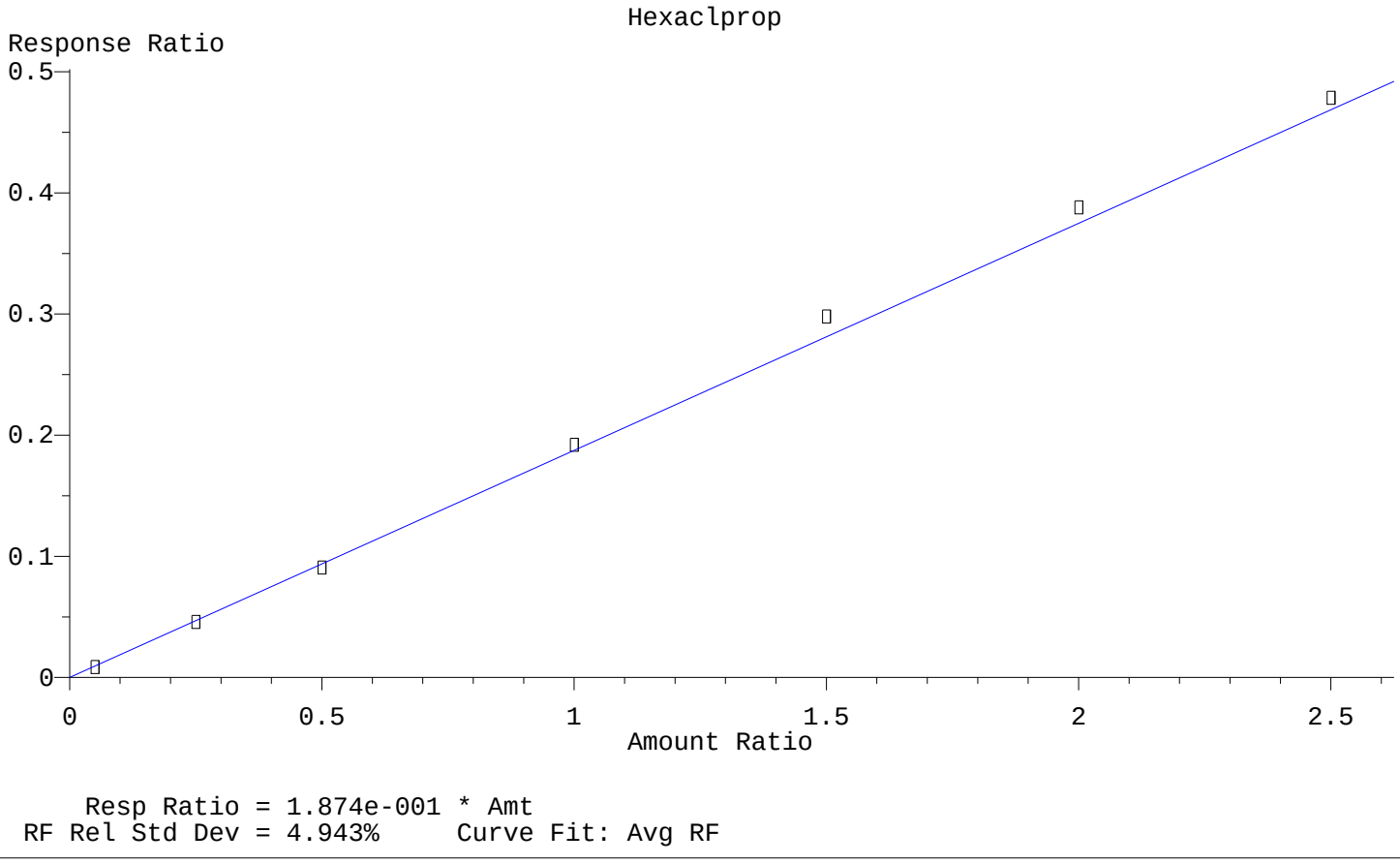

Resp Ratio = 9.254e-001 * Amt
RF Rel Std Dev = 4.440%  Curve Fit: Avg RF



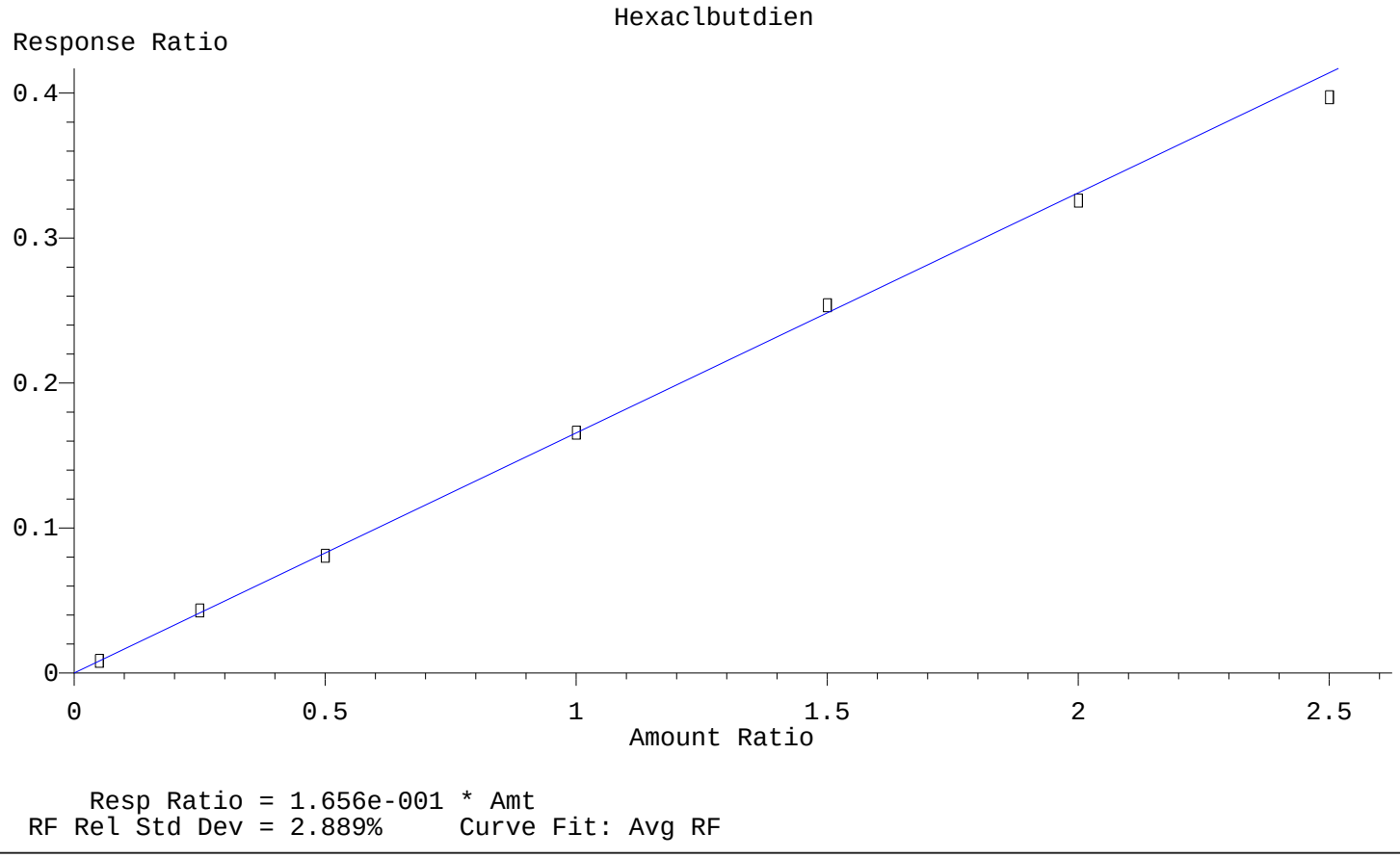

Resp Ratio = 3.524e-001 * Amt
RF Rel Std Dev = 3.684%  Curve Fit: Avg RF



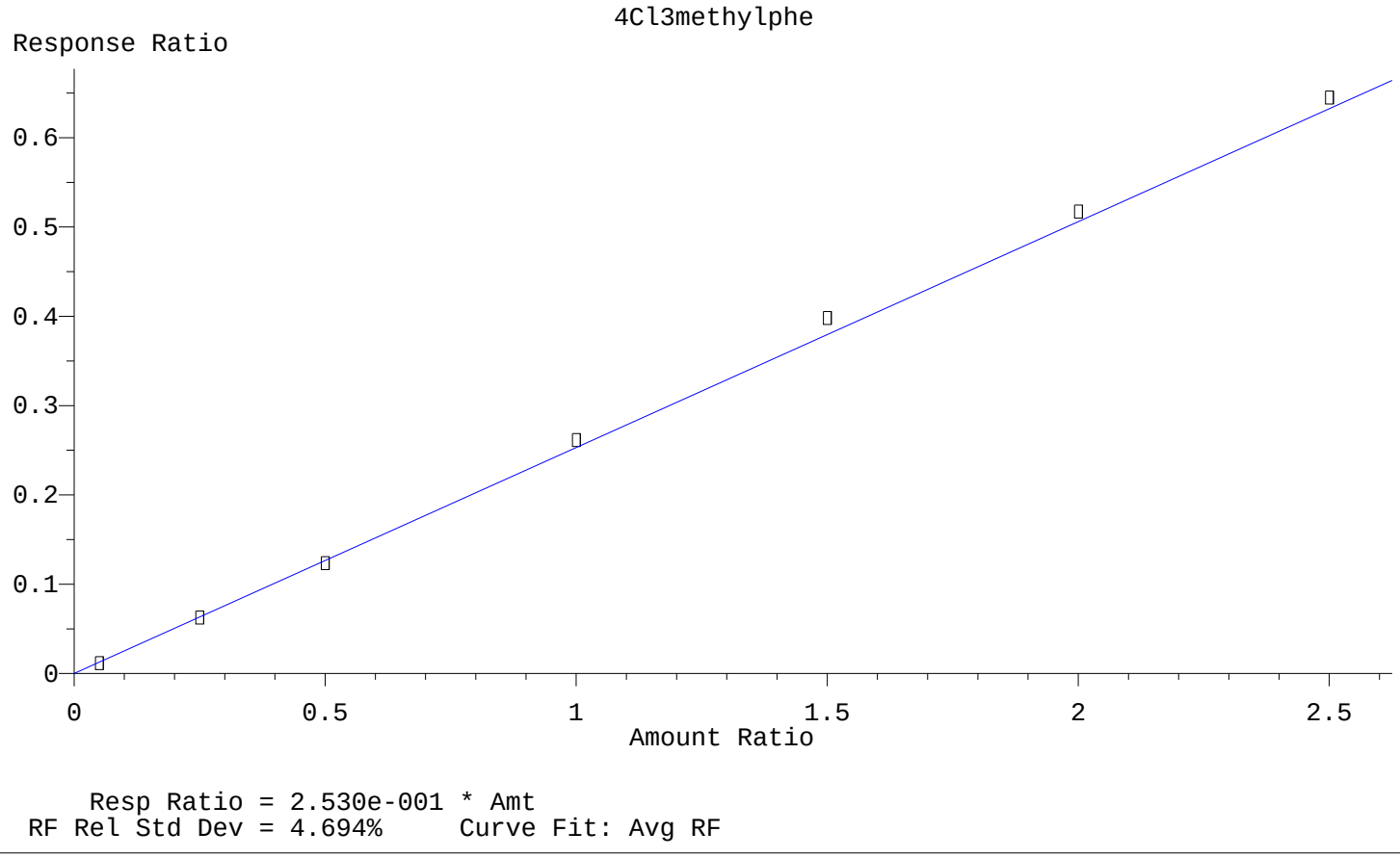

Resp Ratio = 2.469e-001 * Amt
RF Rel Std Dev = 2.863%  Curve Fit: Avg RF



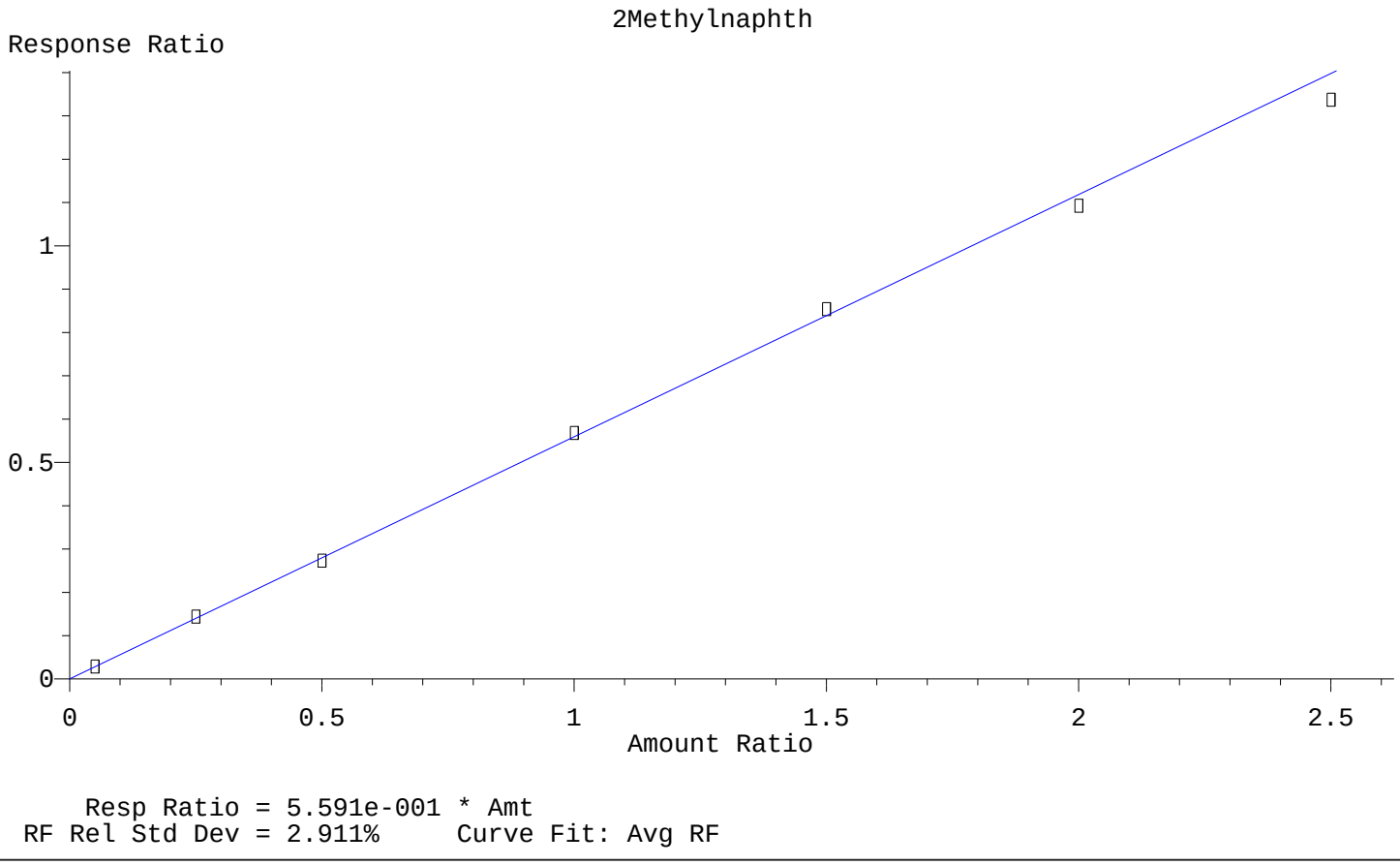

Resp Ratio = 1.874e-001 * Amt
RF Rel Std Dev = 4.943%  Curve Fit: Avg RF



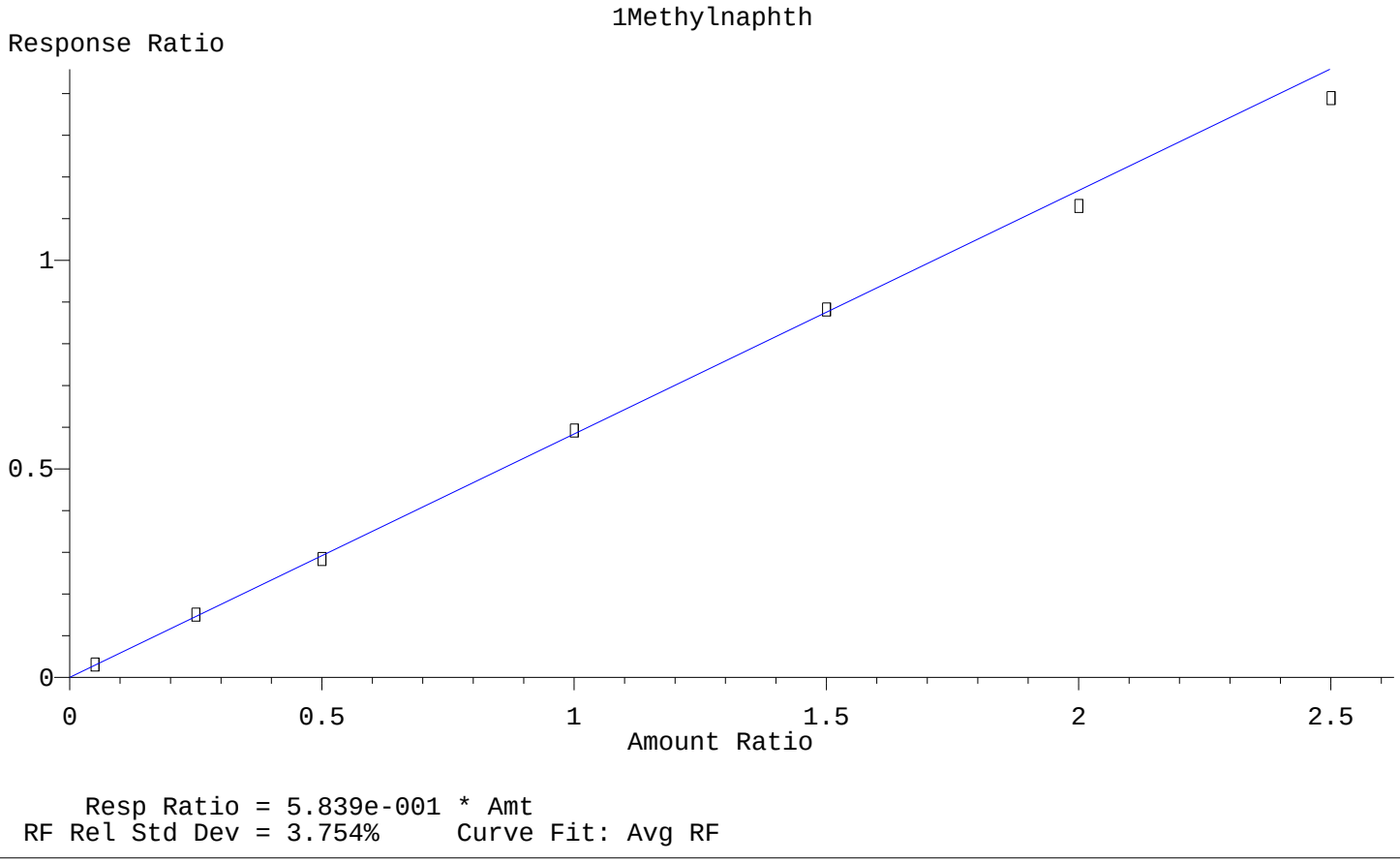

Resp Ratio = 1.656e-001 * Amt
RF Rel Std Dev = 2.889%  Curve Fit: Avg RF



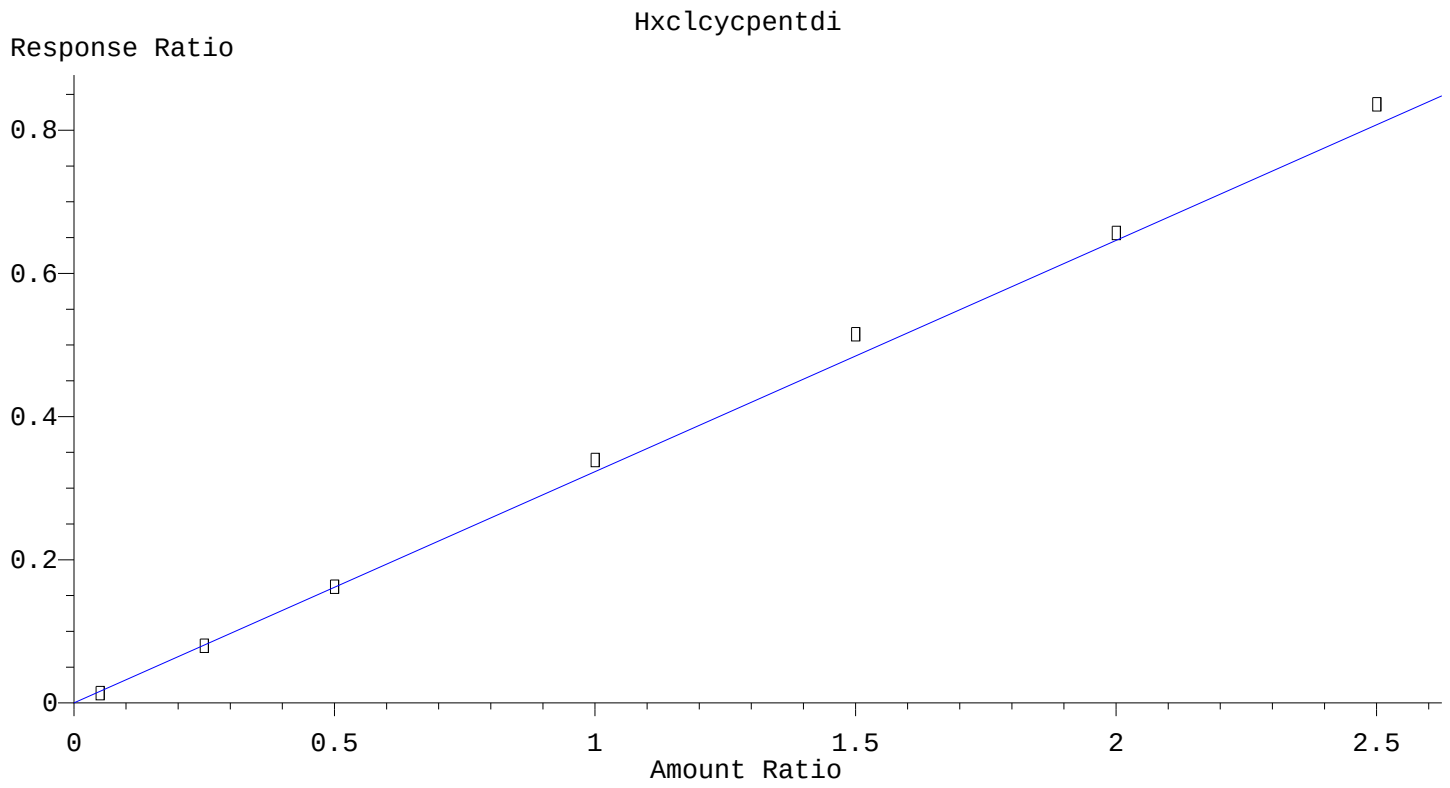

Resp Ratio = 2.530e-001 * Amt
RF Rel Std Dev = 4.694%  Curve Fit: Avg RF



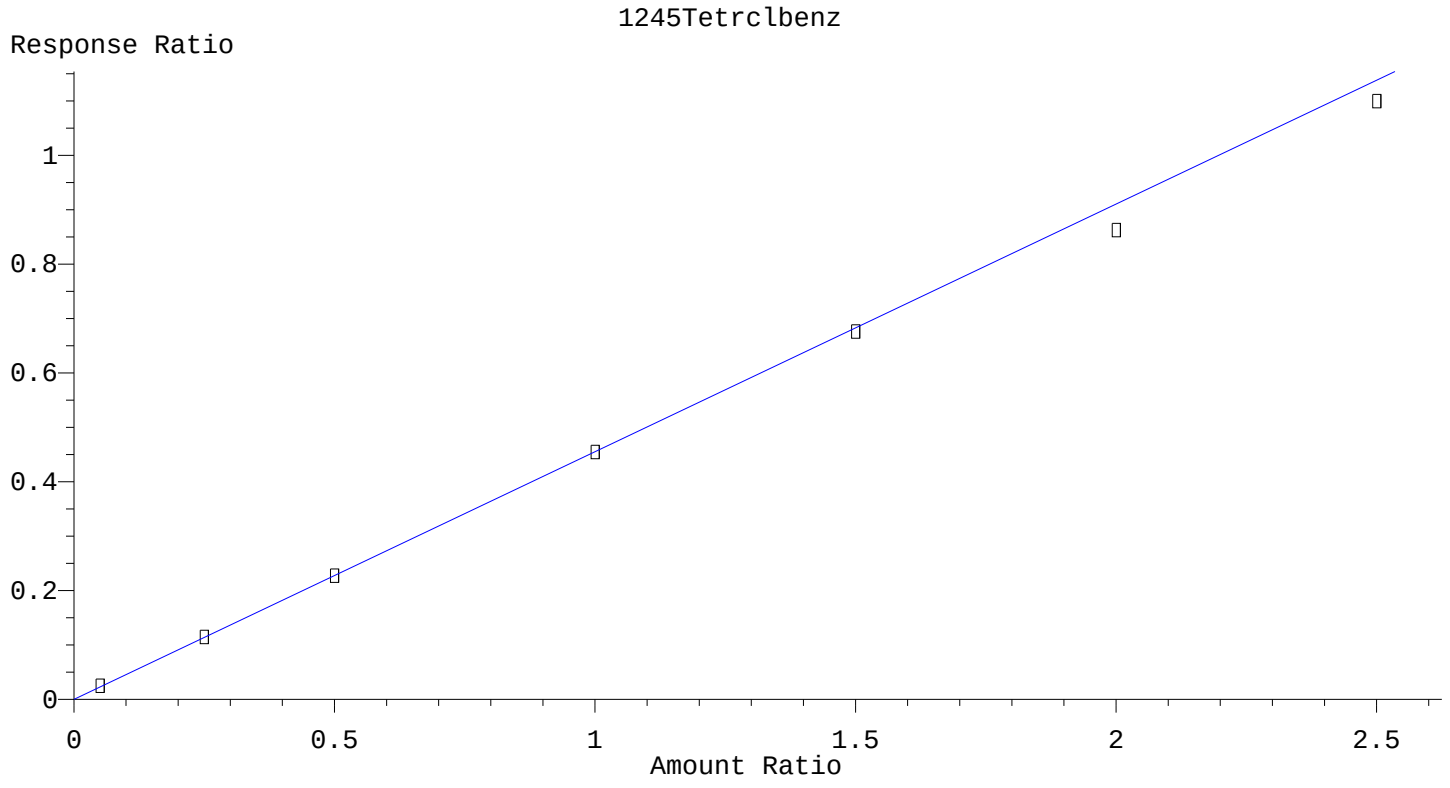

Resp Ratio = 5.591e-001 * Amt
RF Rel Std Dev = 2.911%  Curve Fit: Avg RF



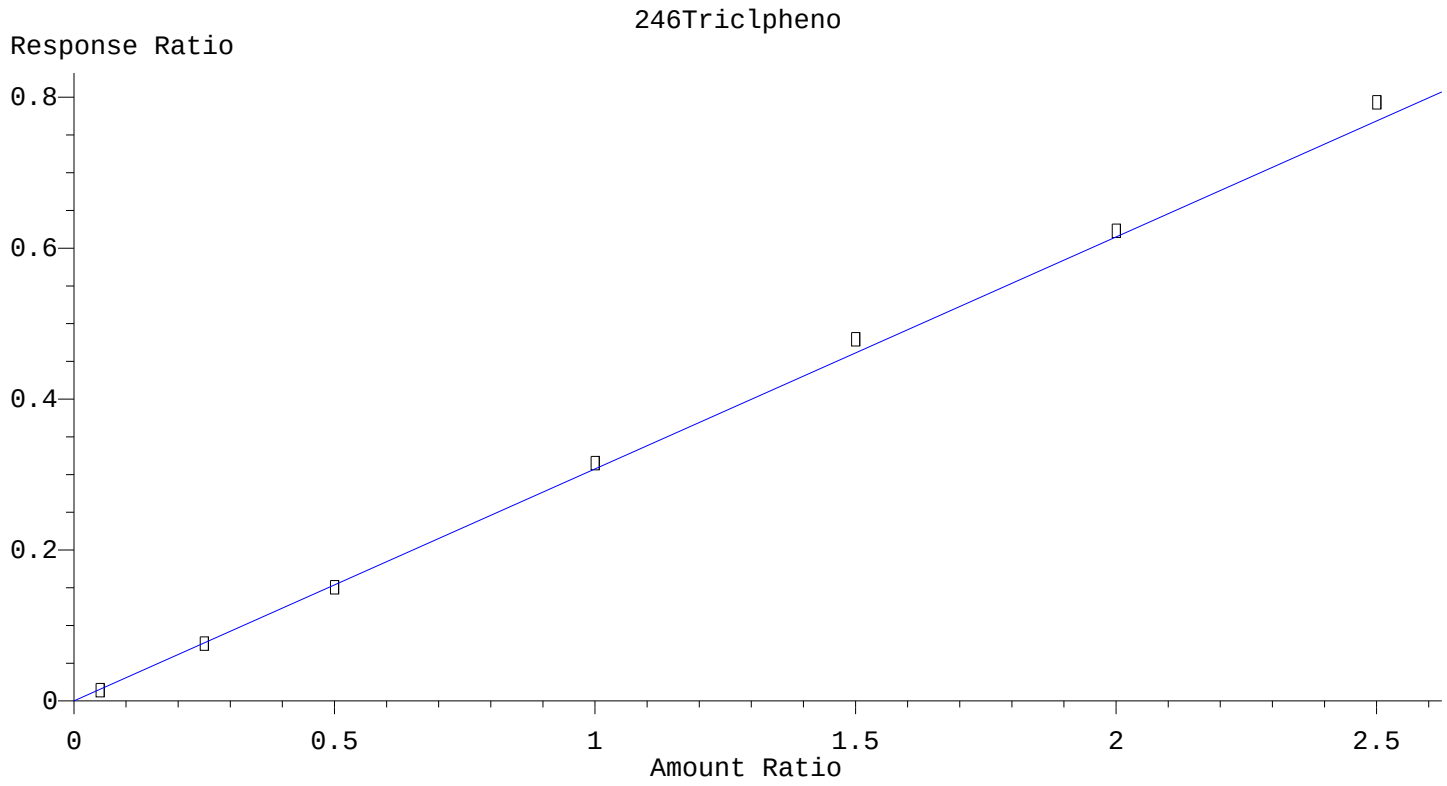

Resp Ratio = 5.839e-001 * Amt
RF Rel Std Dev = 3.754%  Curve Fit: Avg RF



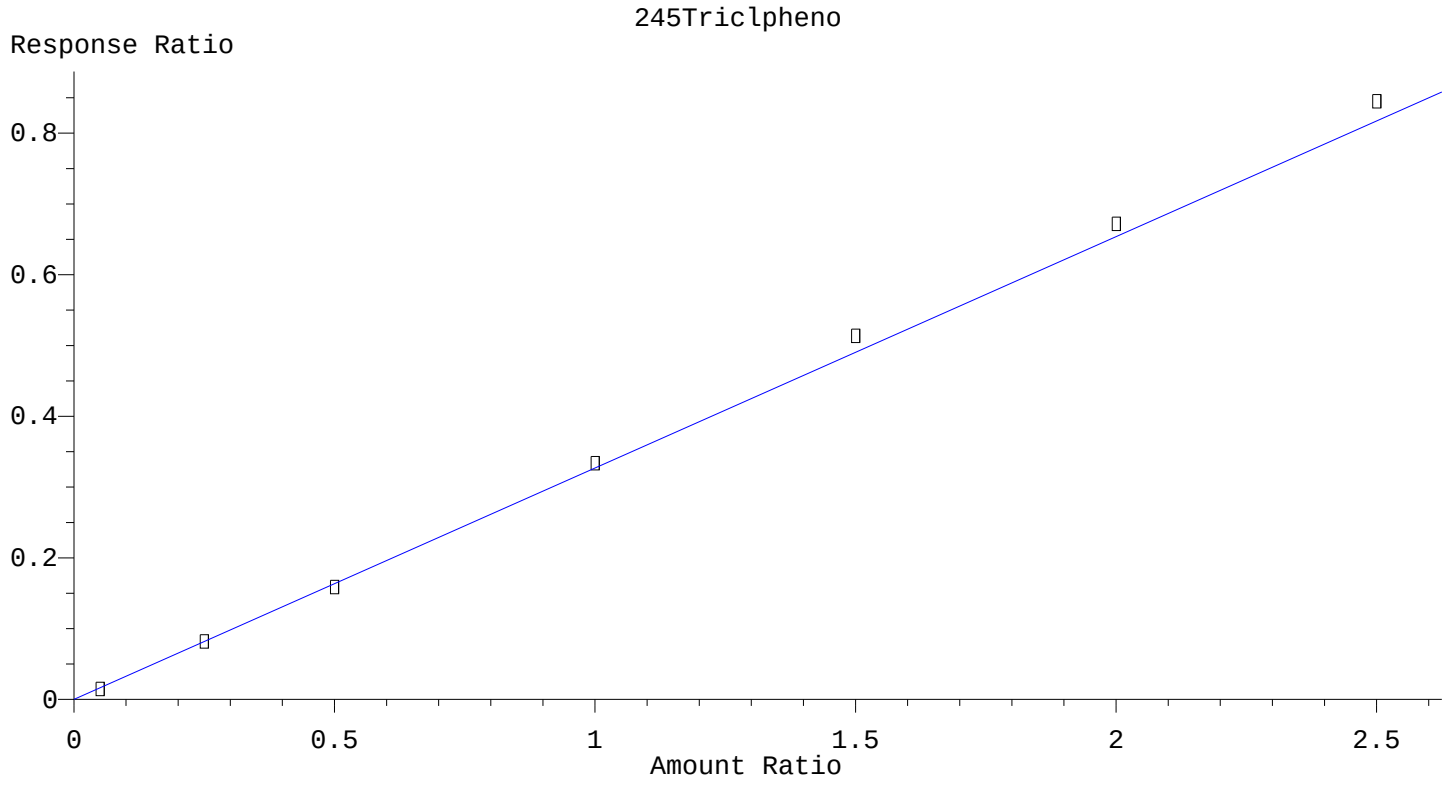

Resp Ratio = 3.231e-001 * Amt
RF Rel Std Dev = 7.328%  Curve Fit: Avg RF



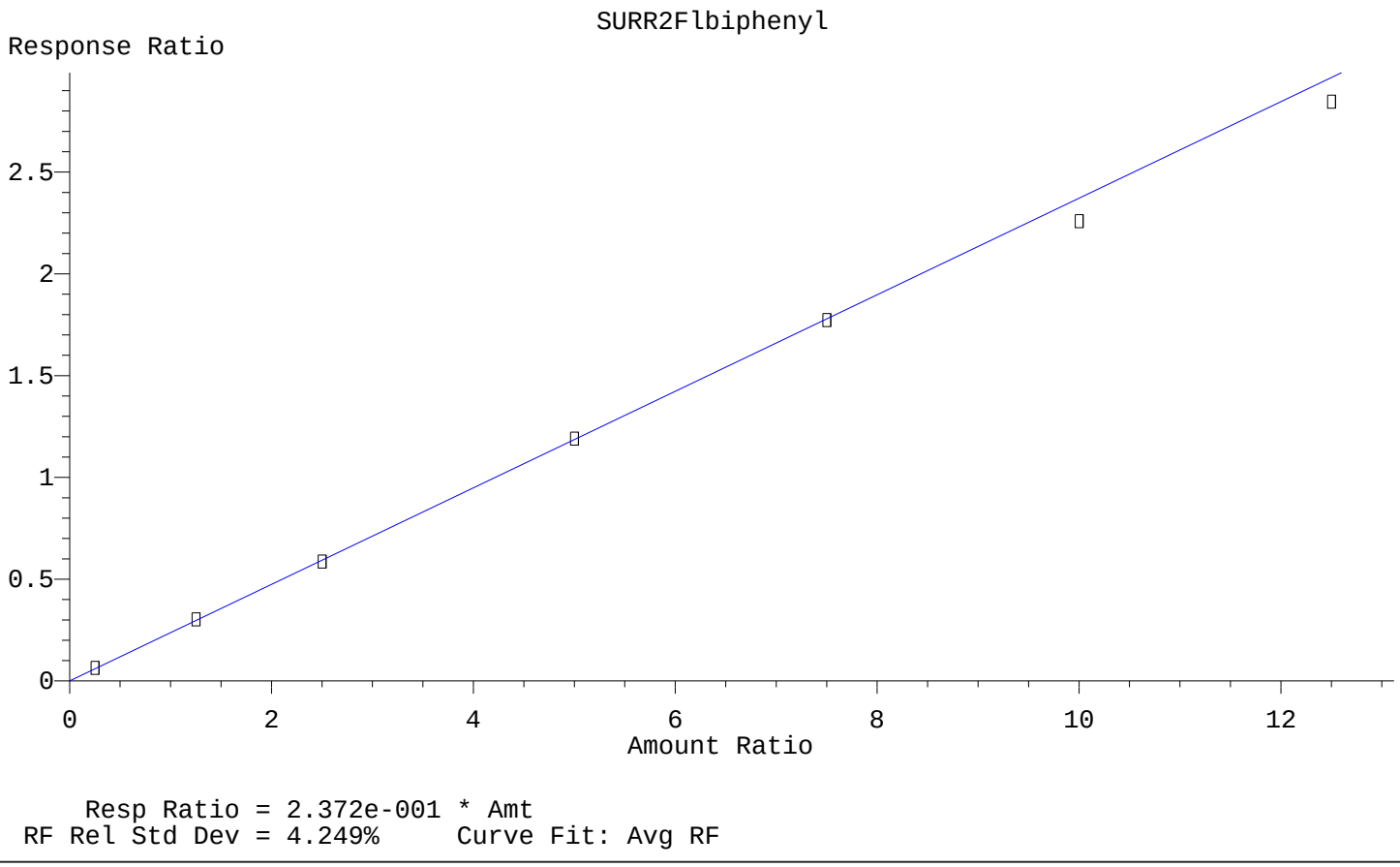

Resp Ratio = 4.555e-001 * Amt
RF Rel Std Dev = 4.624%  Curve Fit: Avg RF



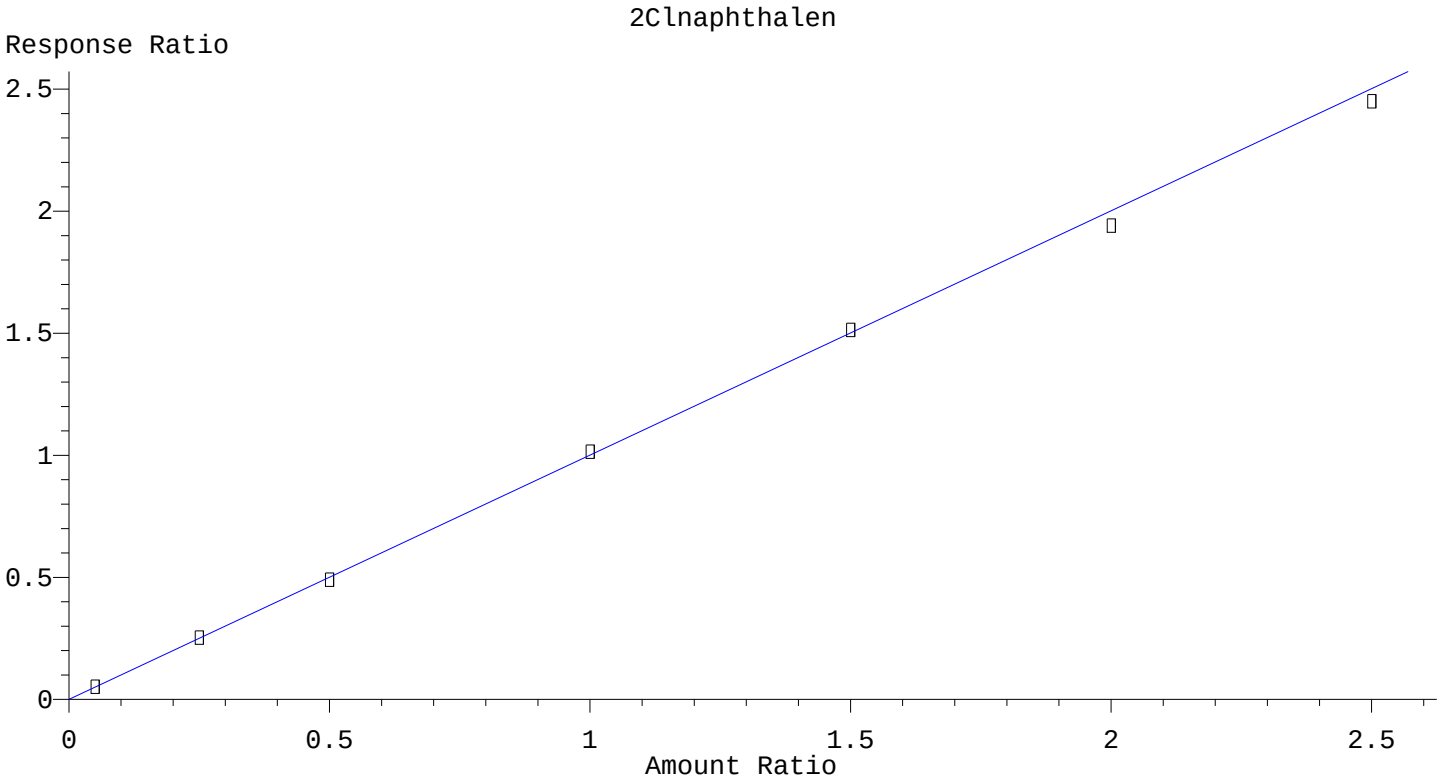

Resp Ratio = 3.075e-001 * Amt
RF Rel Std Dev = 3.987%  Curve Fit: Avg RF



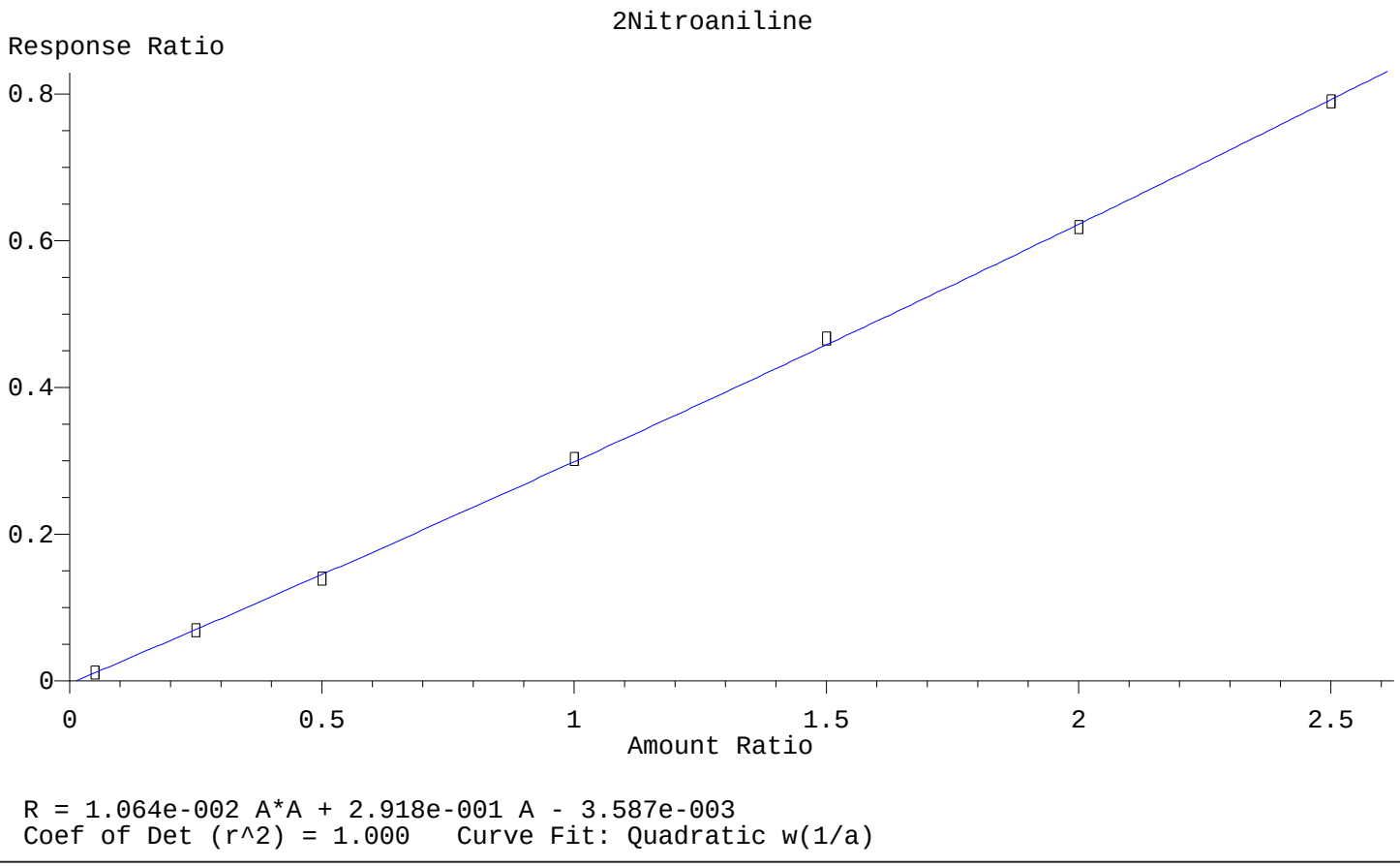

Resp Ratio = 3.270e-001 * Amt
RF Rel Std Dev = 5.016%  Curve Fit: Avg RF



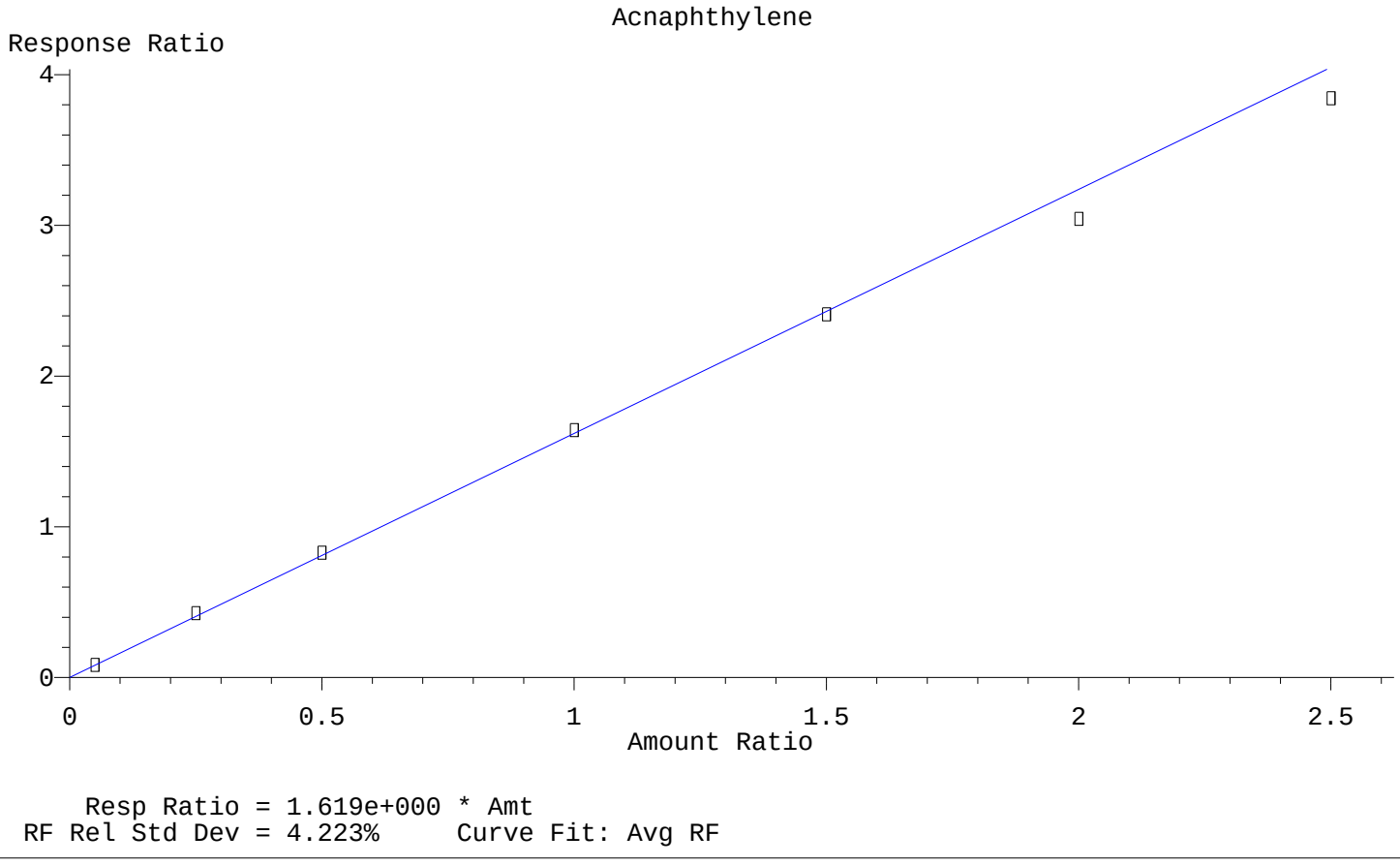

Resp Ratio = 2.372e-001 * Amt
RF Rel Std Dev = 4.249%  Curve Fit: Avg RF



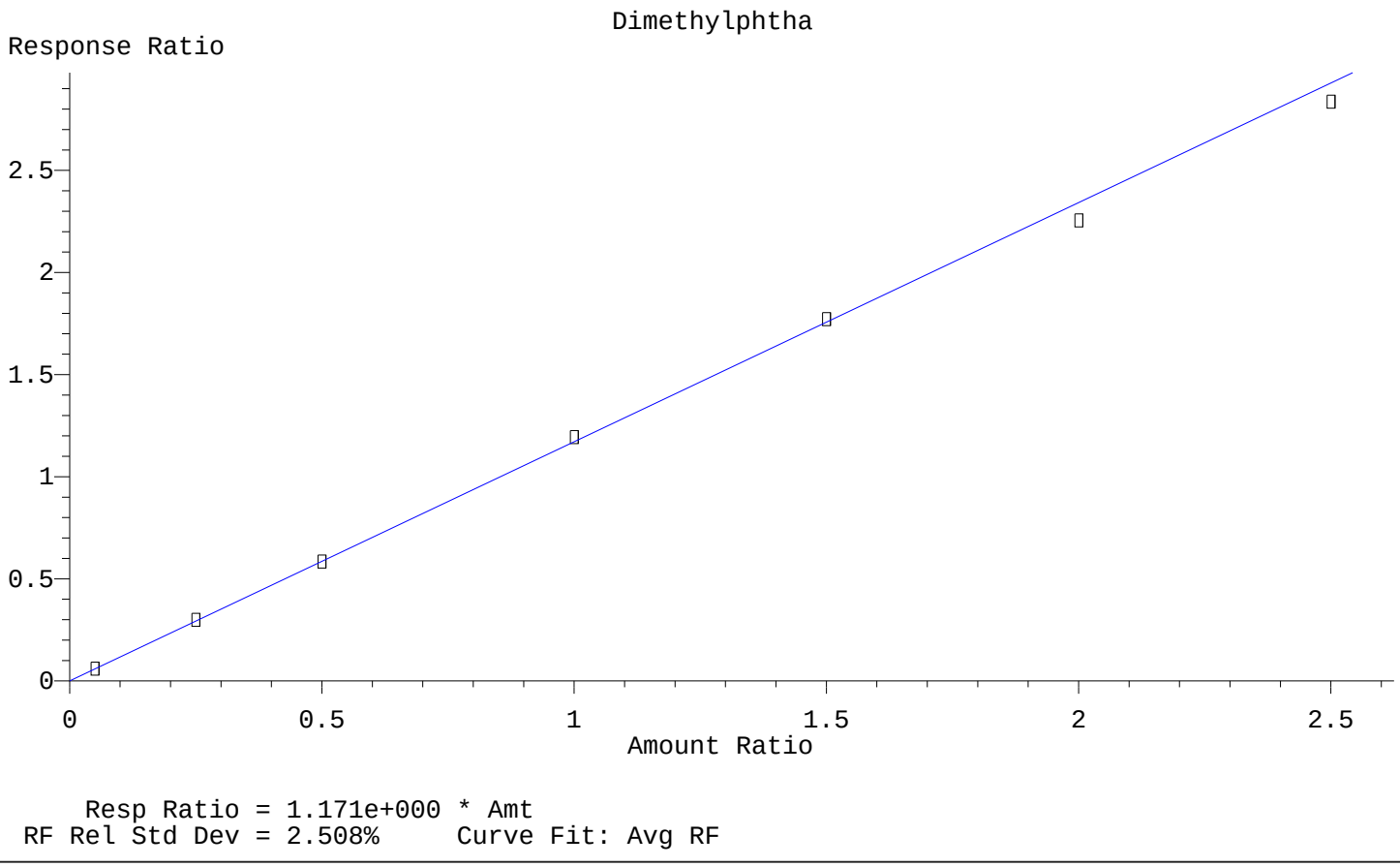

Resp Ratio = 1.001e+000 * Amt
RF Rel Std Dev = 2.459%  Curve Fit: Avg RF



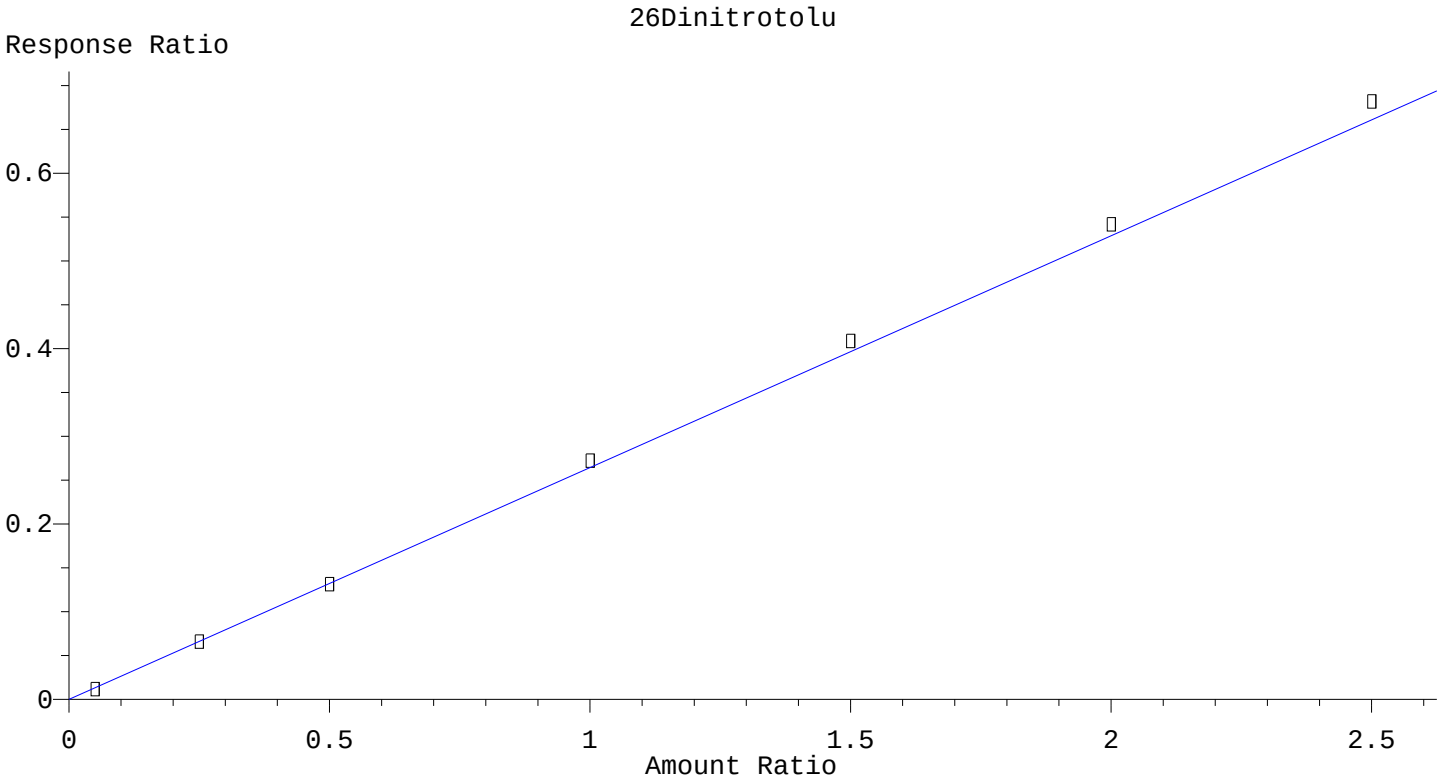

R = 1.064e-002 A*A + 2.918e-001 A - 3.587e-003
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)




Resp Ratio = 1.619e+000 * Amt
RF Rel Std Dev = 4.223%  Curve Fit: Avg RF

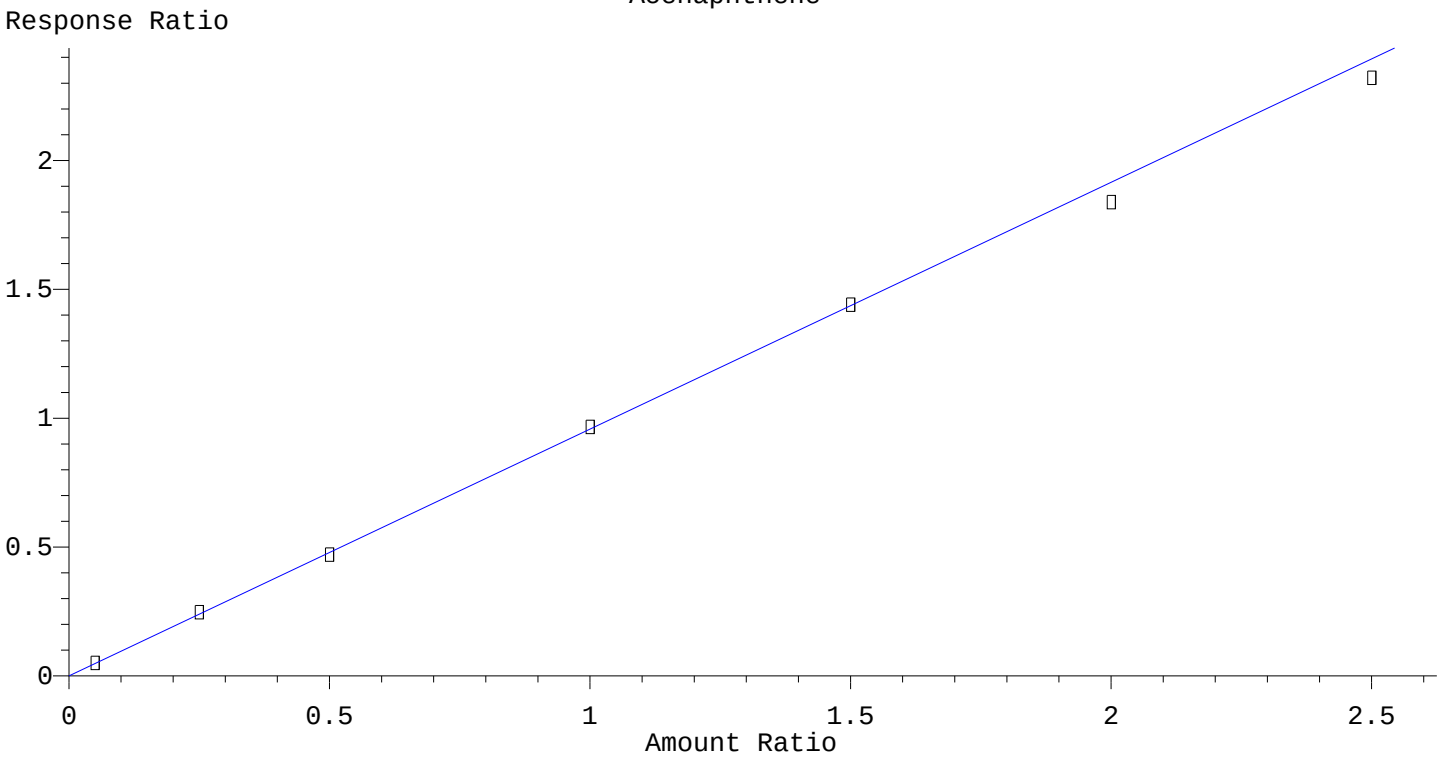



Resp Ratio = 1.171e+000 * Amt
RF Rel Std Dev = 2.508%  Curve Fit: Avg RF



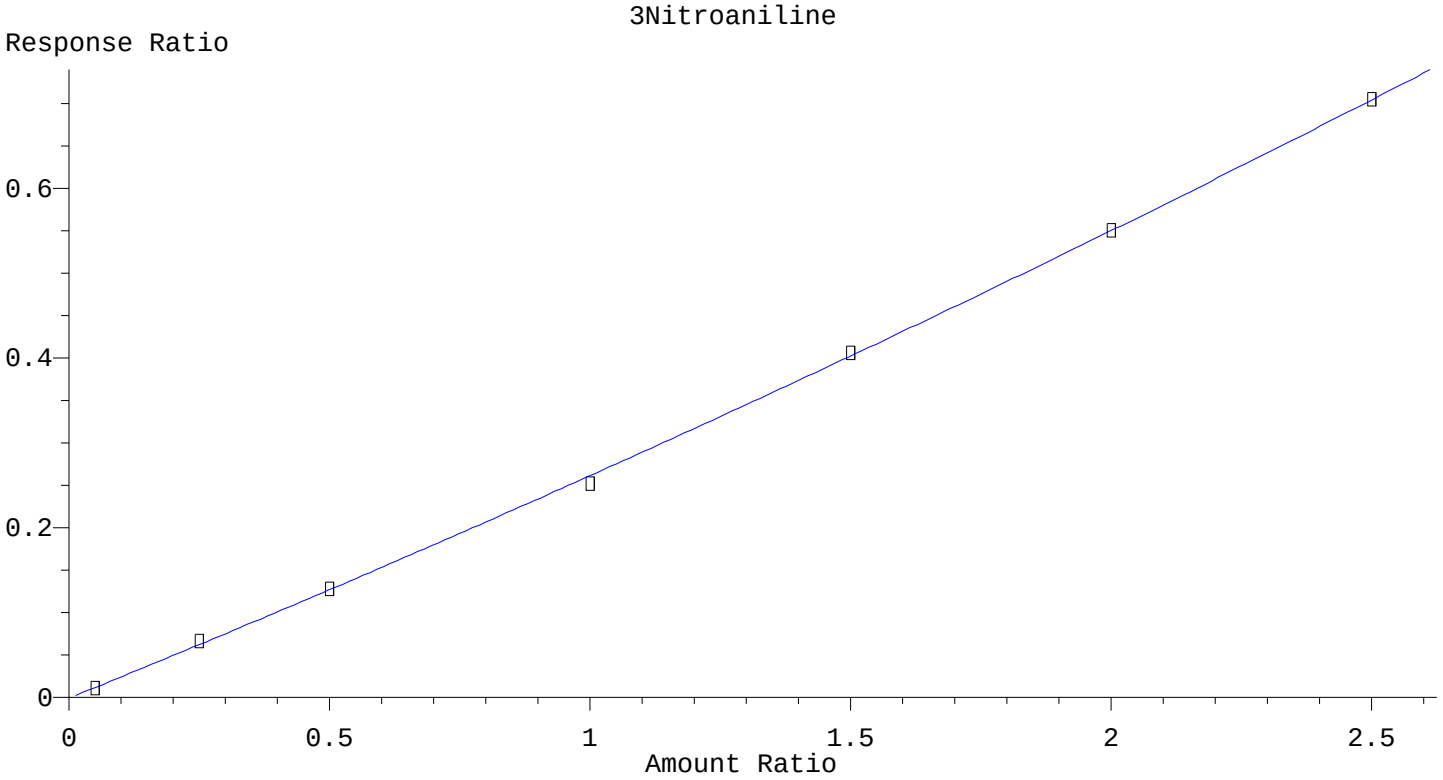

Resp Ratio = 2.643e-001 * Amt
RF Rel Std Dev = 5.138%  Curve Fit: Avg RF

Acenaphthene

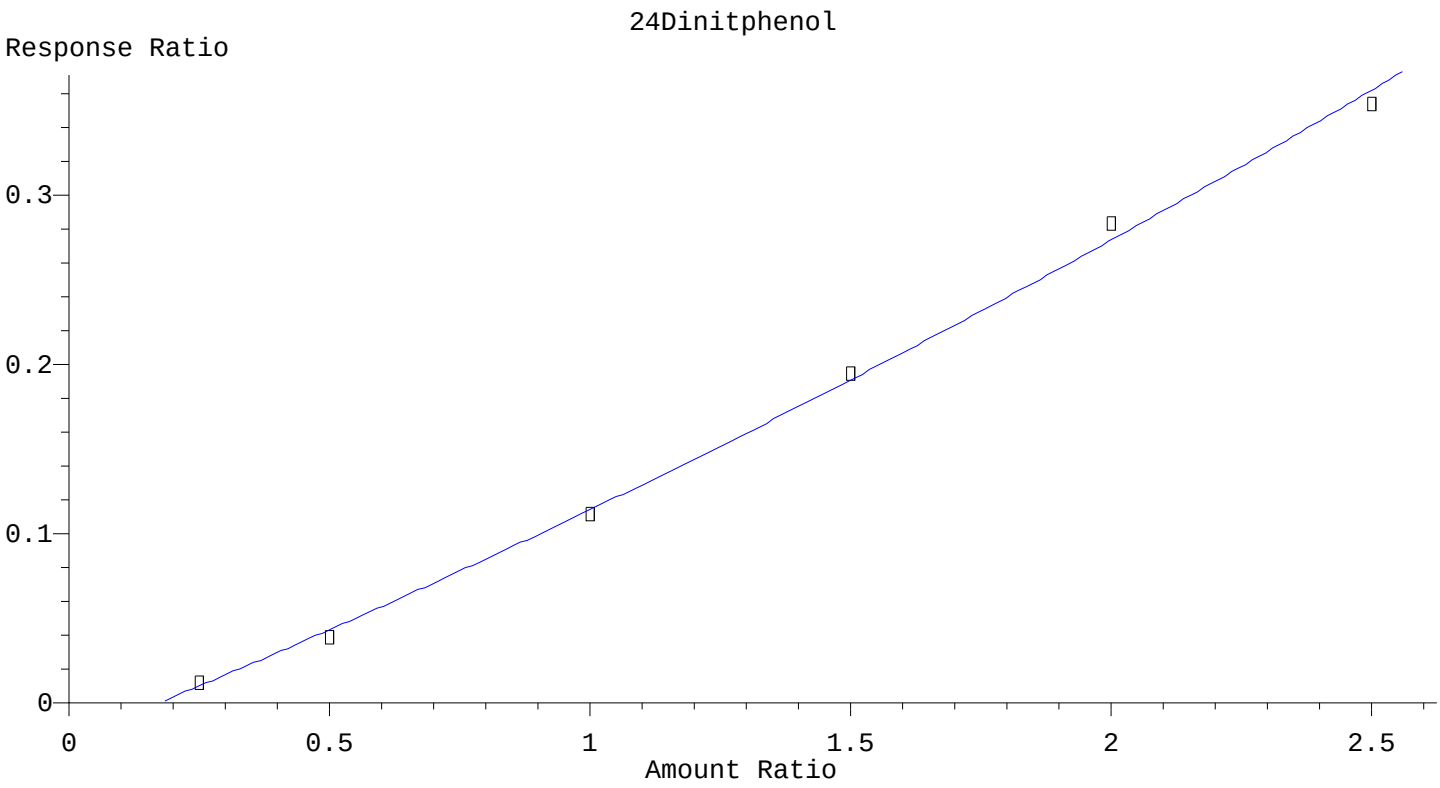



Resp Ratio = 9.578e-001 * Amt
RF Rel Std Dev = 3.199%  Curve Fit: Avg RF

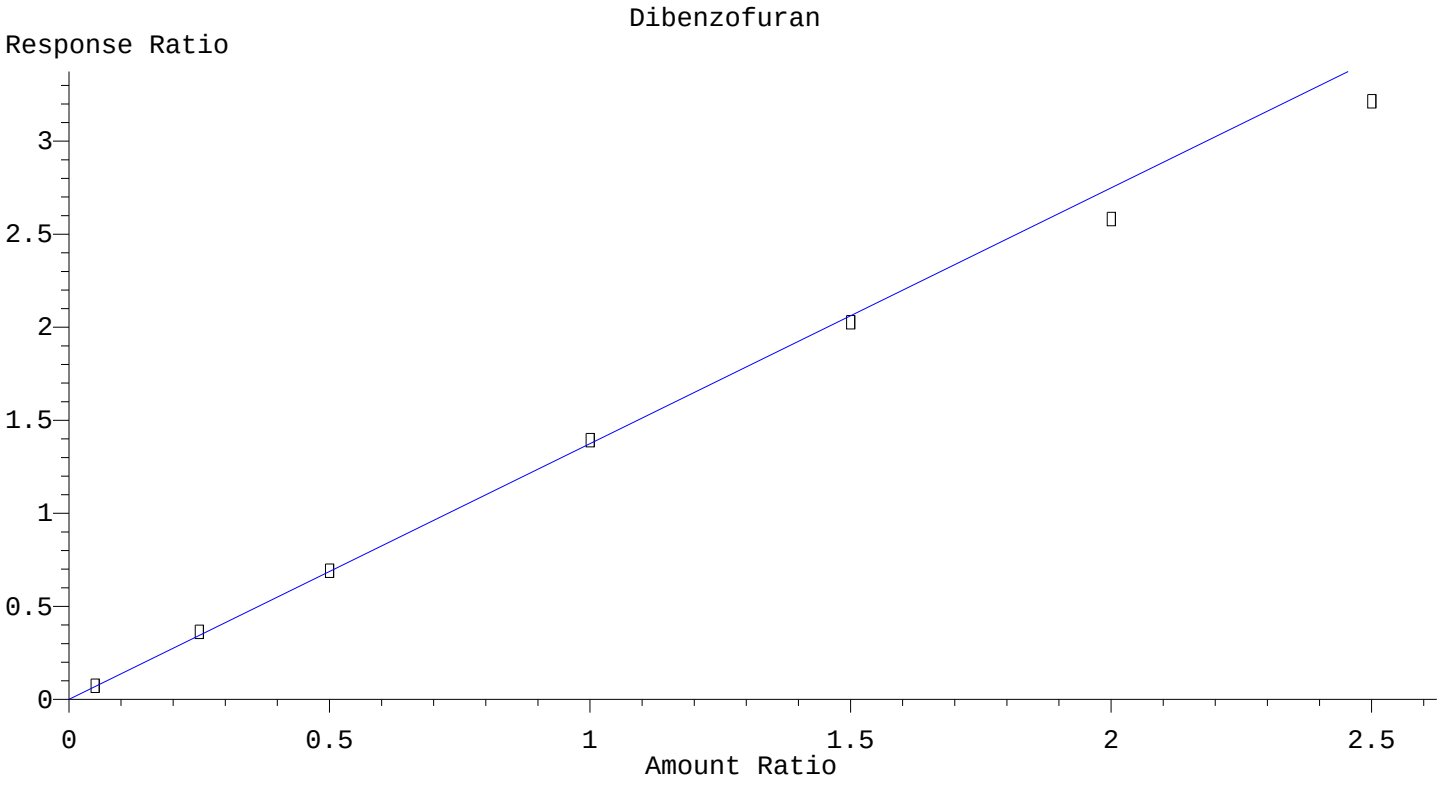
3Nitroaniline



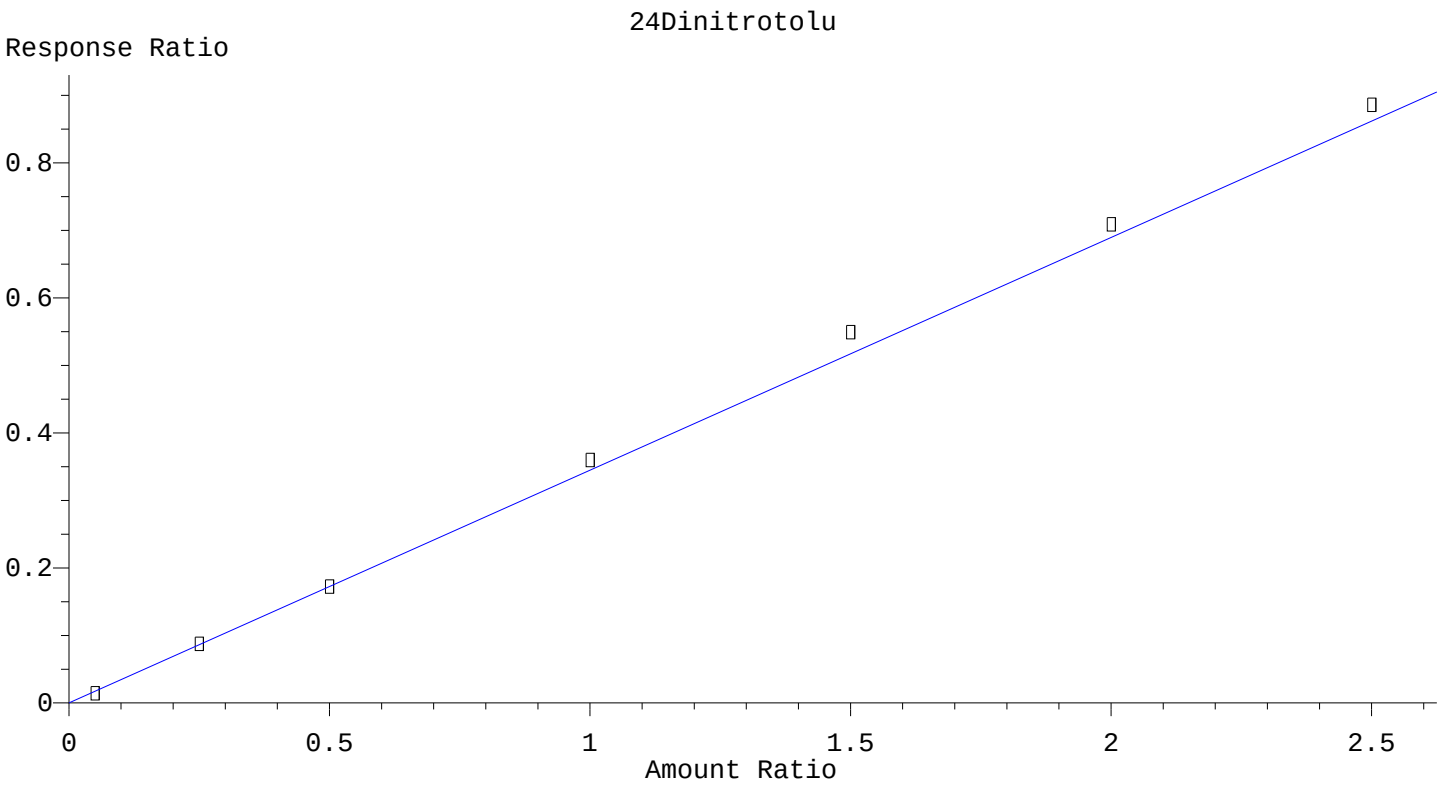

R = 1.322e-002 A*A + 2.491e-001 A - 9.549e-004
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)



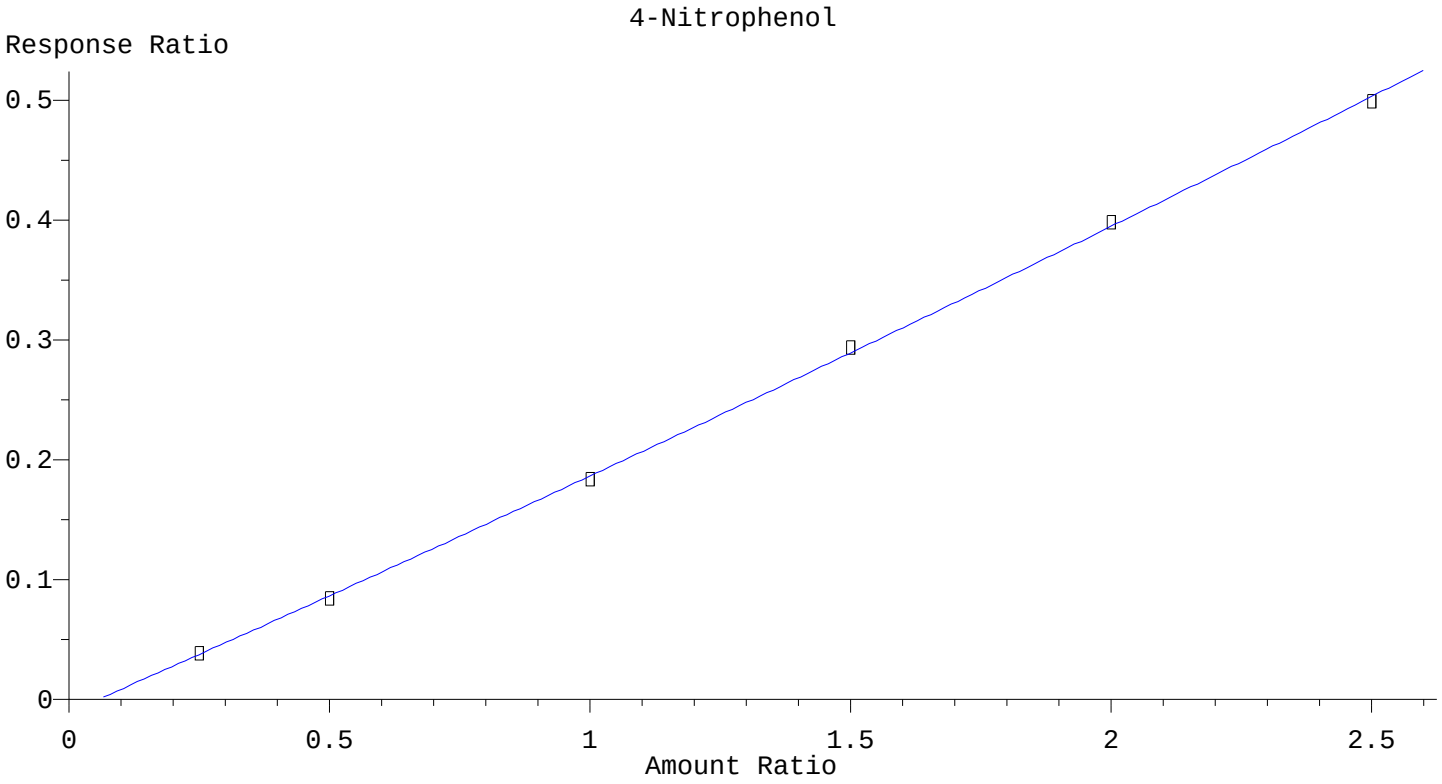

R = 1.181e-002 A*A + 1.240e-001 A - 2.171e-002
Coef of Det (r^2) = 0.998  Curve Fit: Quadratic w(1/a)



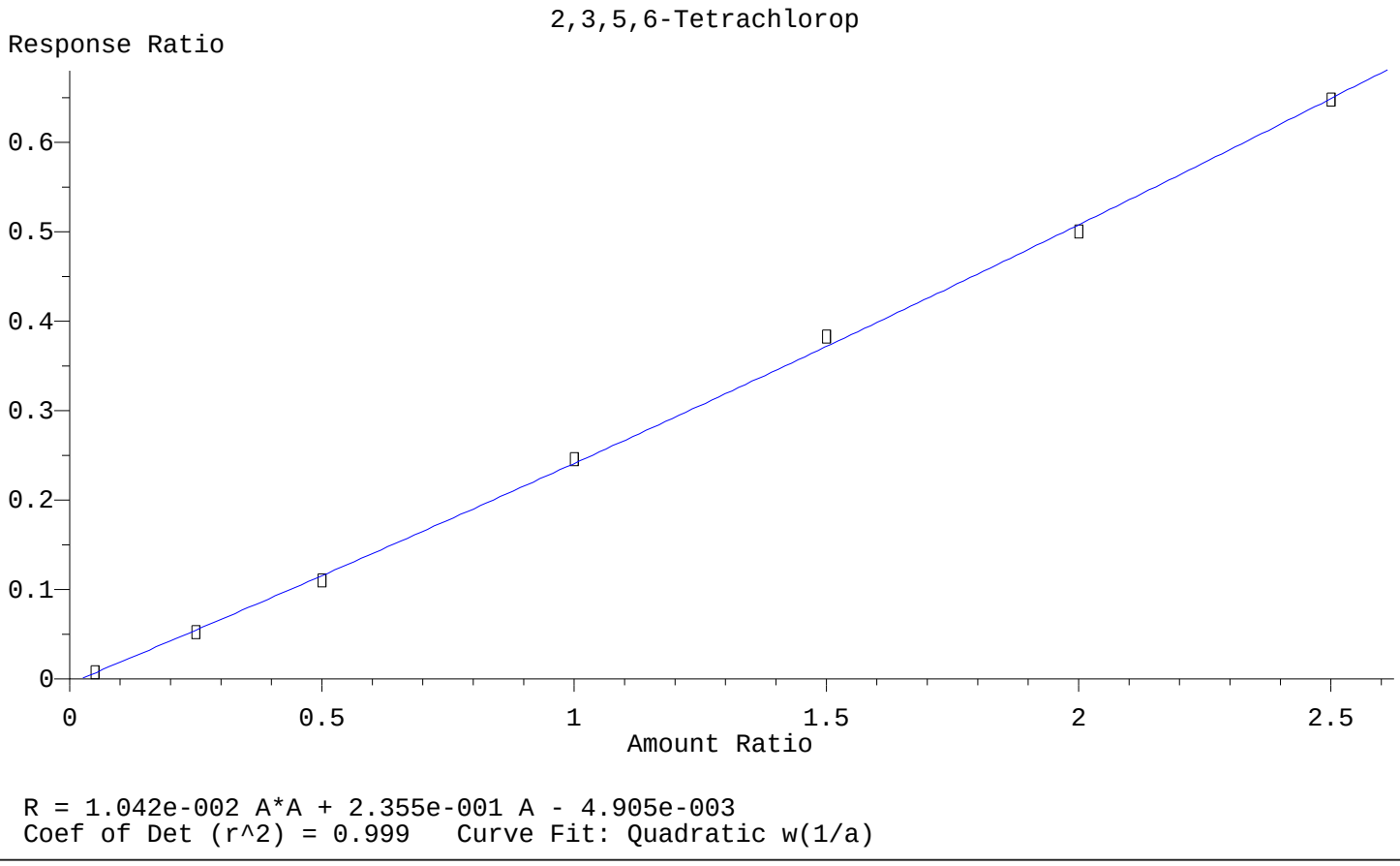

Resp Ratio = 1.375e+000 * Amt
RF Rel Std Dev = 5.209%  Curve Fit: Avg RF



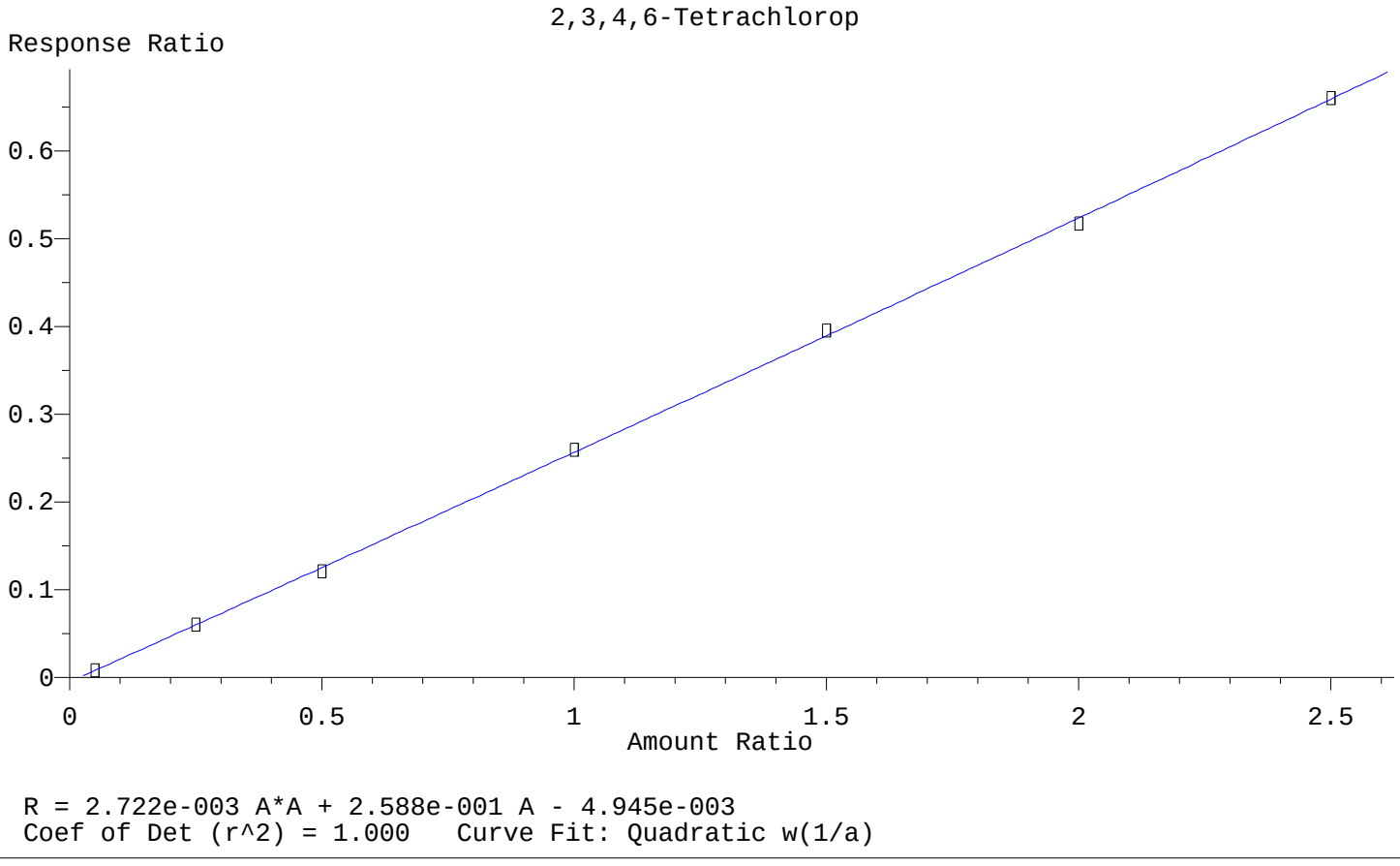

Resp Ratio = 3.448e-001 * Amt
RF Rel Std Dev = 8.029%  Curve Fit: Avg RF



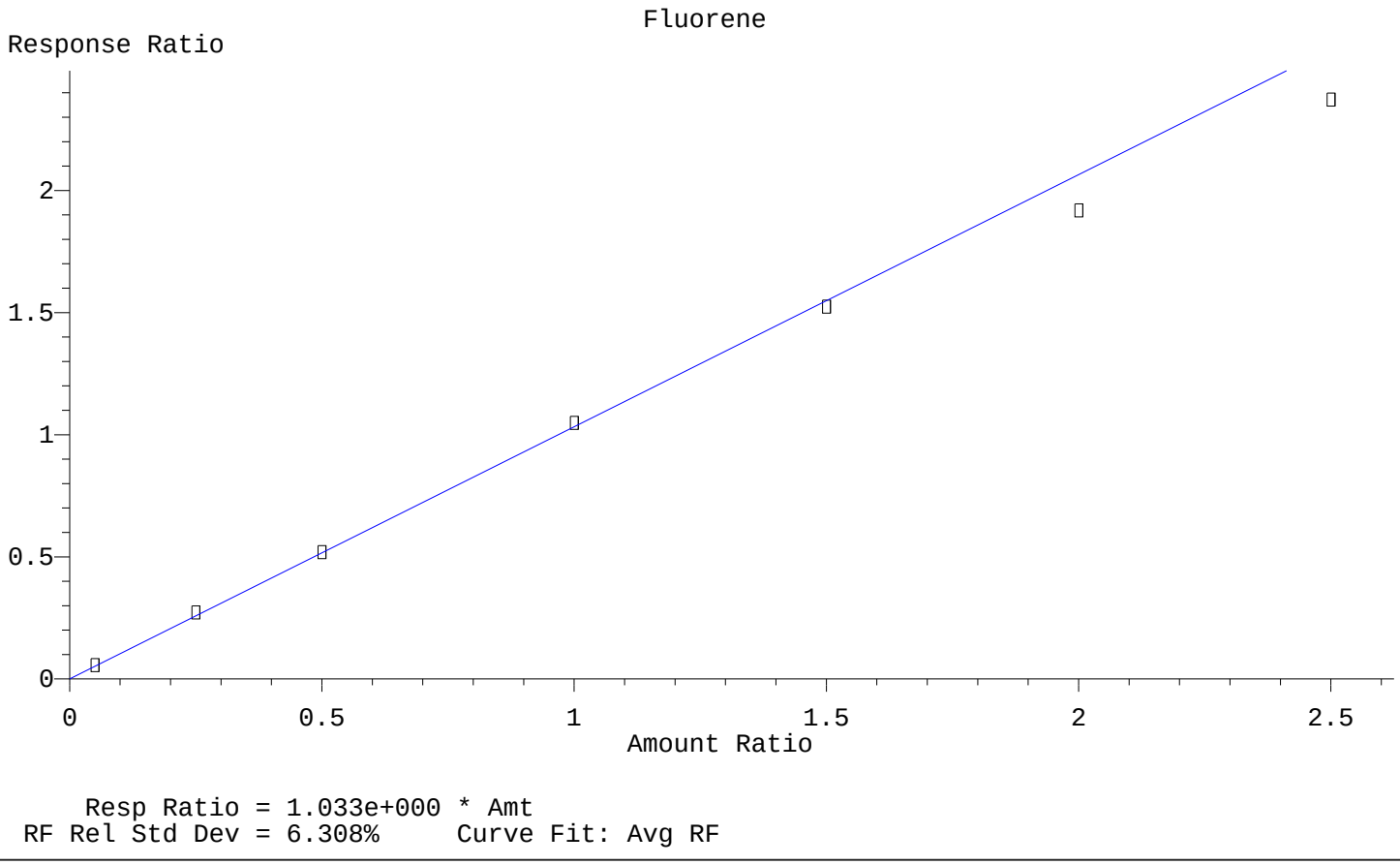

R = 5.585e-003 A*A + 1.916e-001 A - 1.072e-002
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)



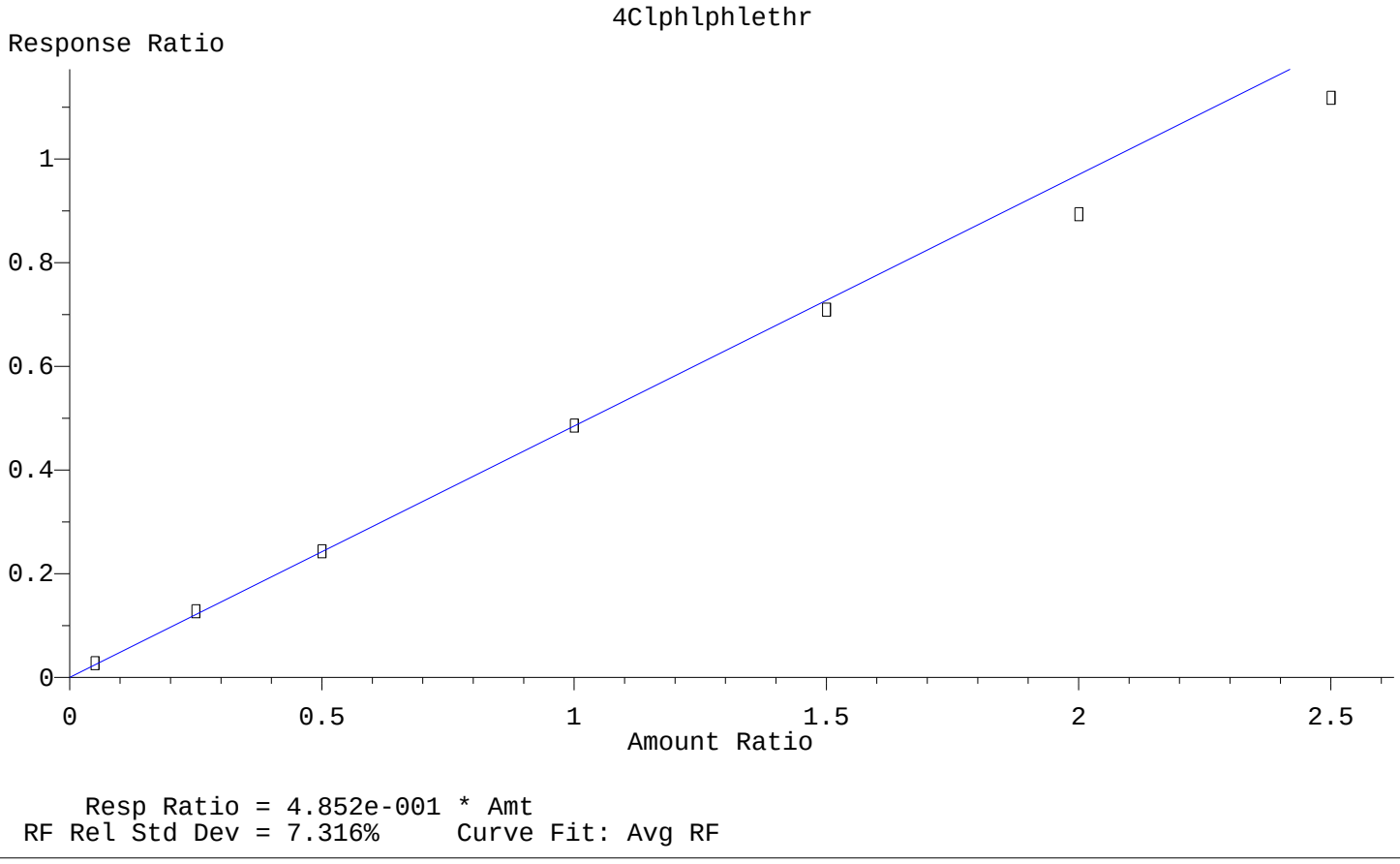

R = 1.042e-002 A*A + 2.355e-001 A - 4.905e-003
Coef of Det (r^2) = 0.999  Curve Fit: Quadratic w(1/a)




R = 2.722e-003 A*A + 2.588e-001 A - 4.945e-003
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)

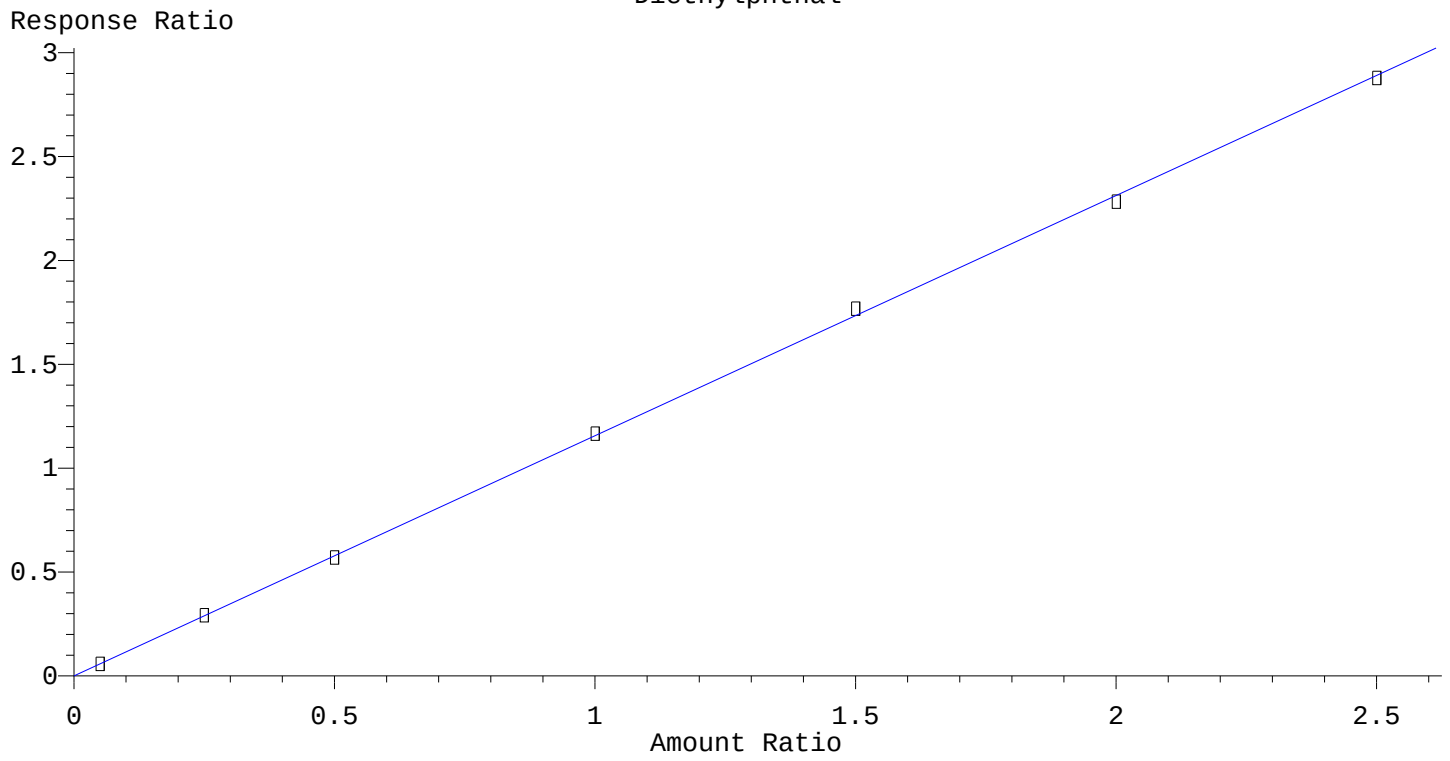



Resp Ratio = 1.033e+000 * Amt
RF Rel Std Dev = 6.308%  Curve Fit: Avg RF



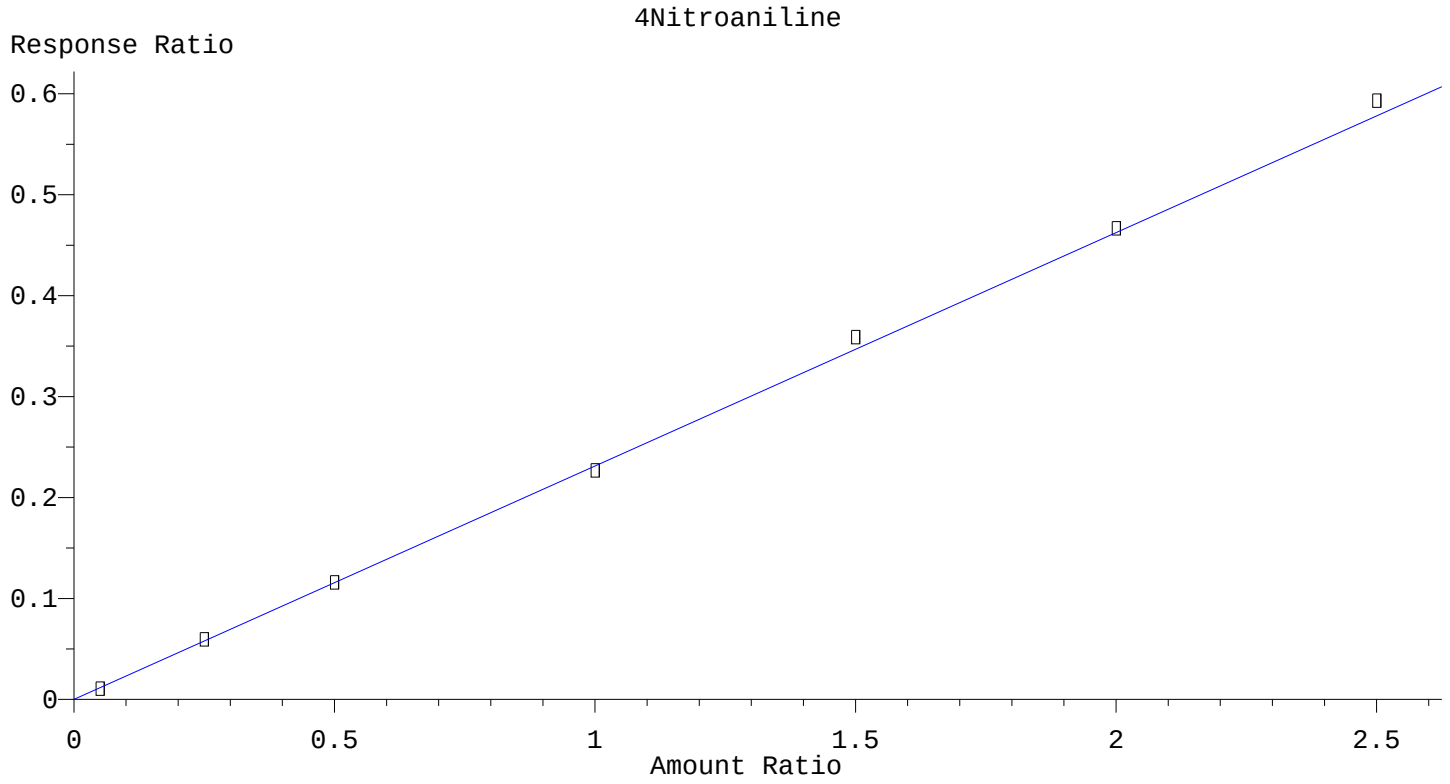

Resp Ratio = 4.852e-001 * Amt
RF Rel Std Dev = 7.316%  Curve Fit: Avg RF

Diethylphthal

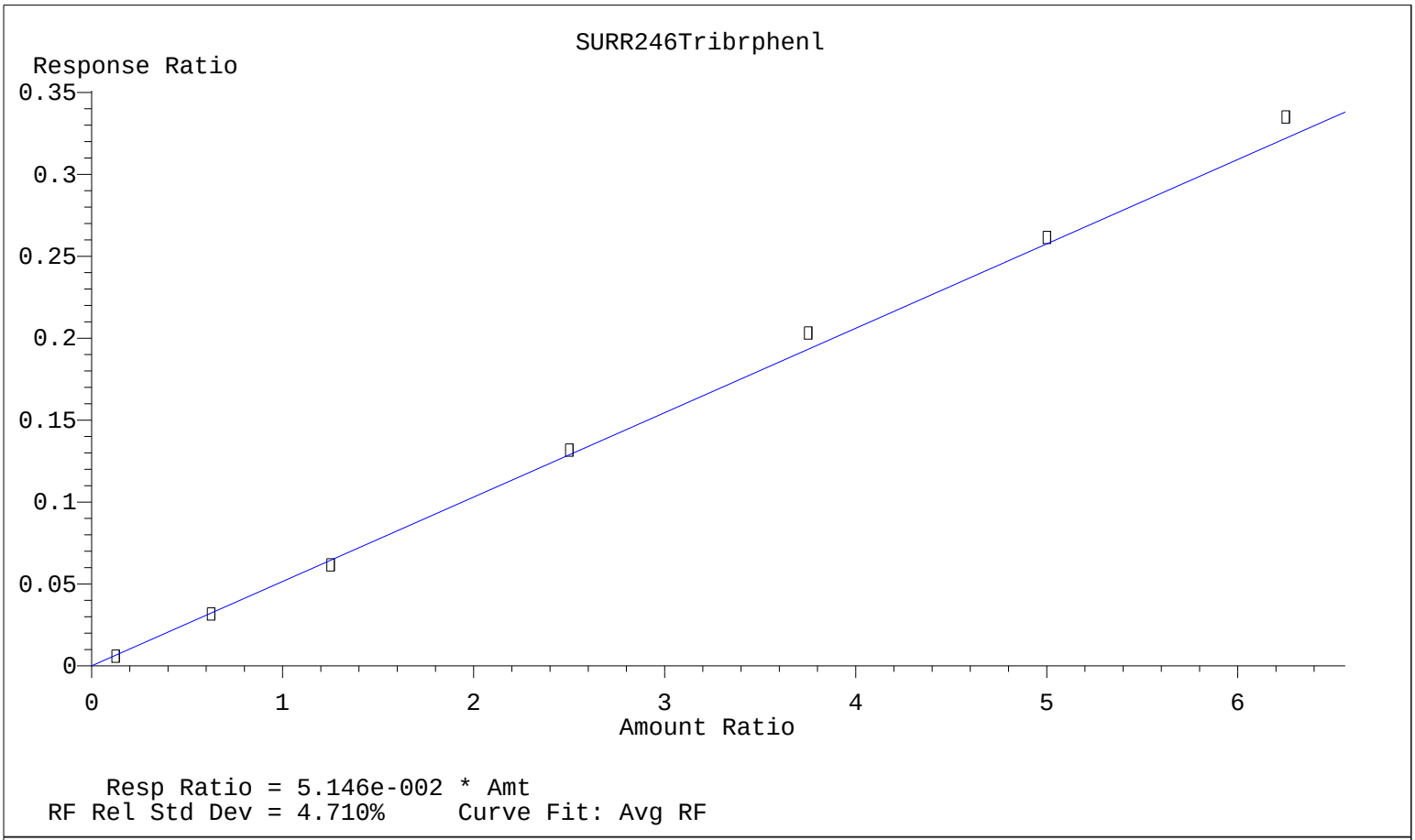



Resp Ratio = 1.156e+000 * Amt
RF Rel Std Dev = 1.258%  Curve Fit: Avg RF

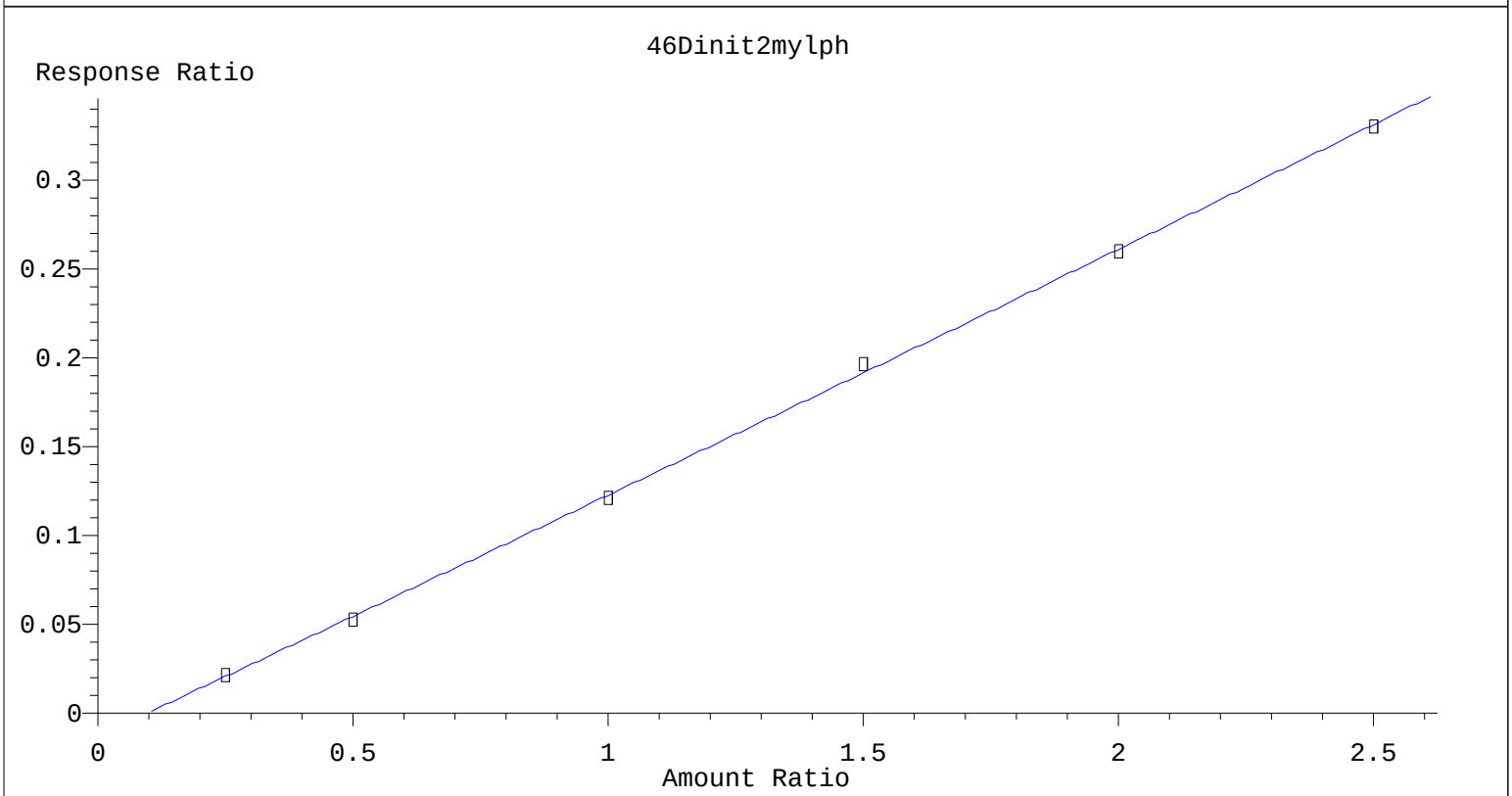
4Nitroaniline



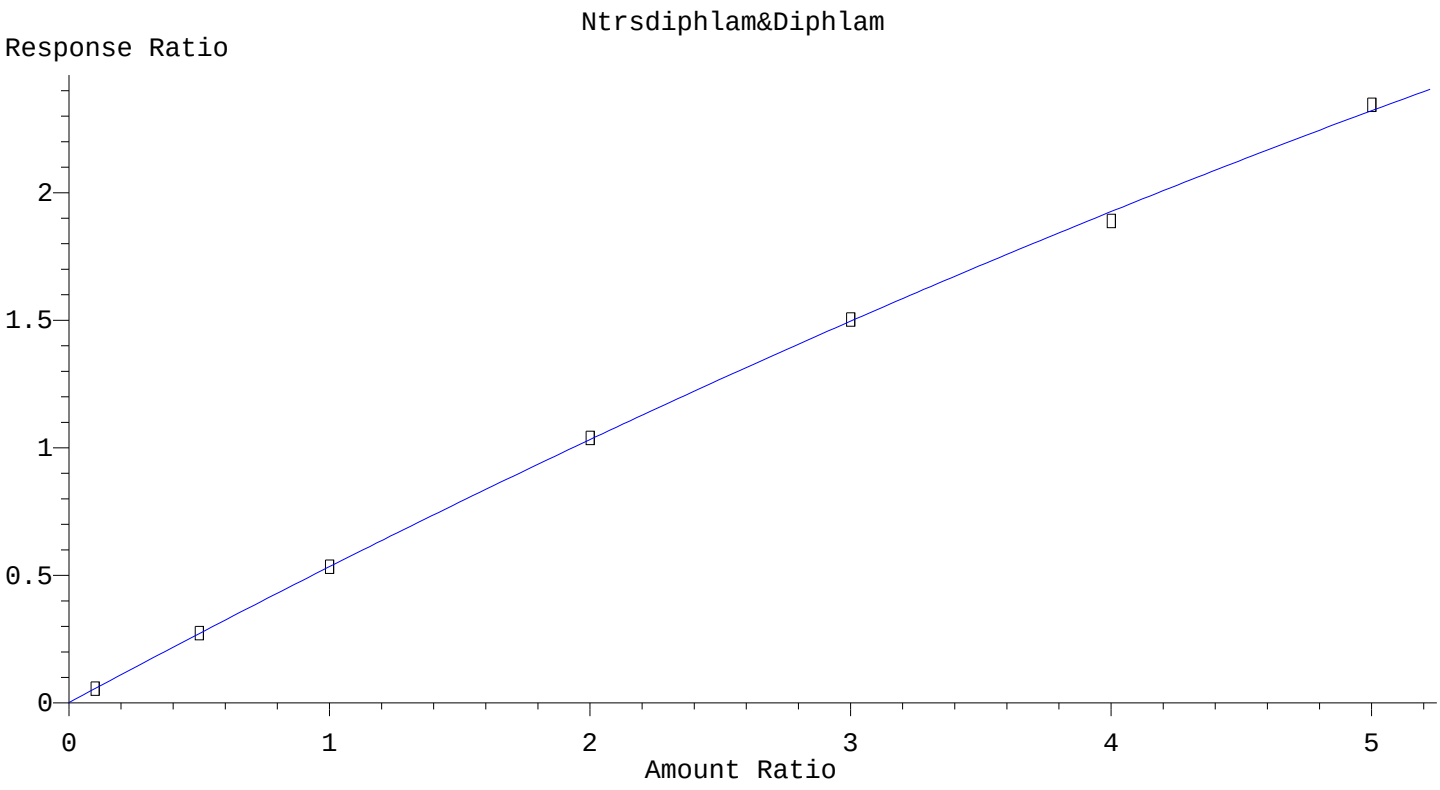

Resp Ratio = 2.311e-001 * Amt
RF Rel Std Dev = 4.218%  Curve Fit: Avg RF



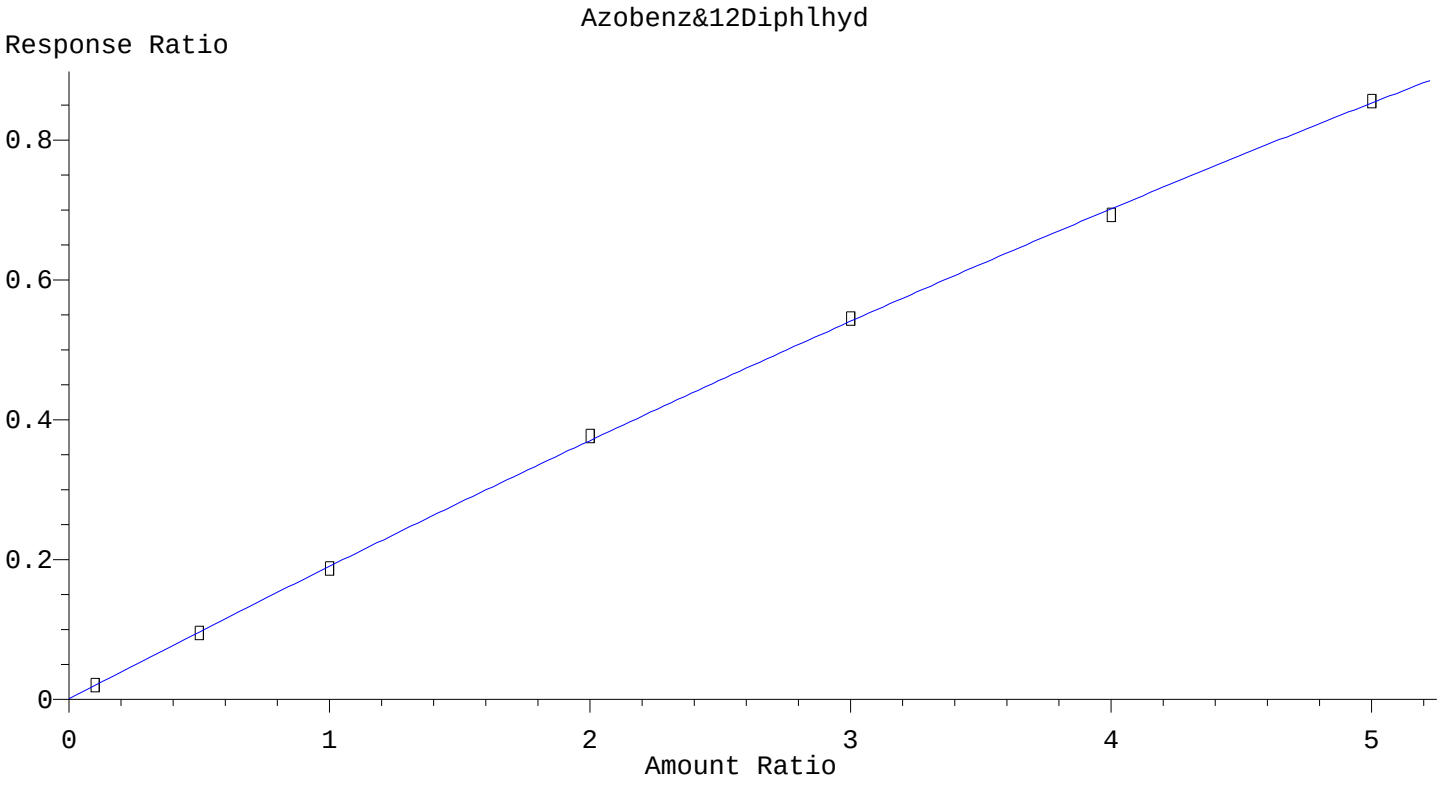

Resp Ratio = 5.146e-002 * Amt
RF Rel Std Dev = 4.710%  Curve Fit: Avg RF



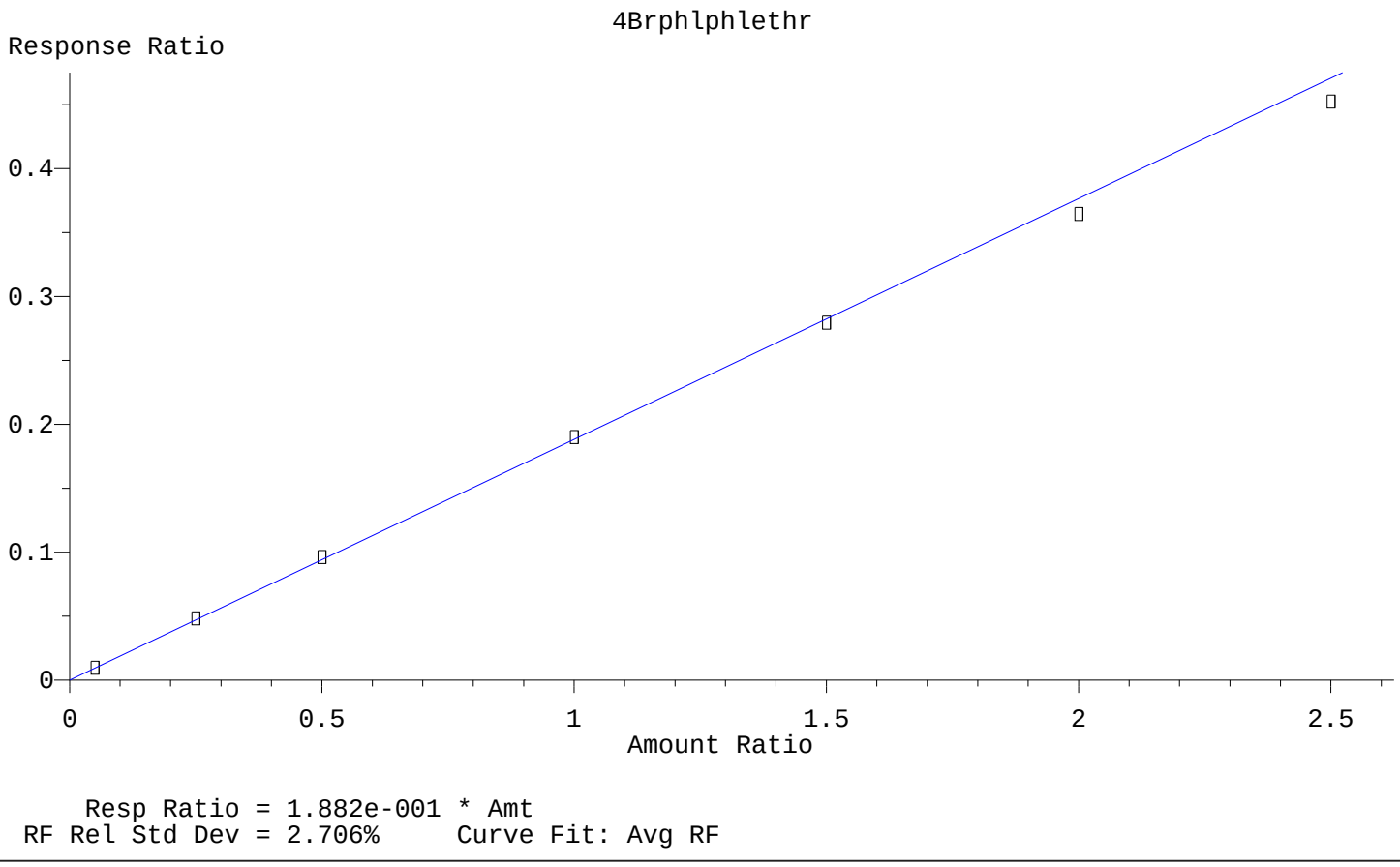

R = 1.405e-003 A*A + 1.342e-001 A - 1.292e-002
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)



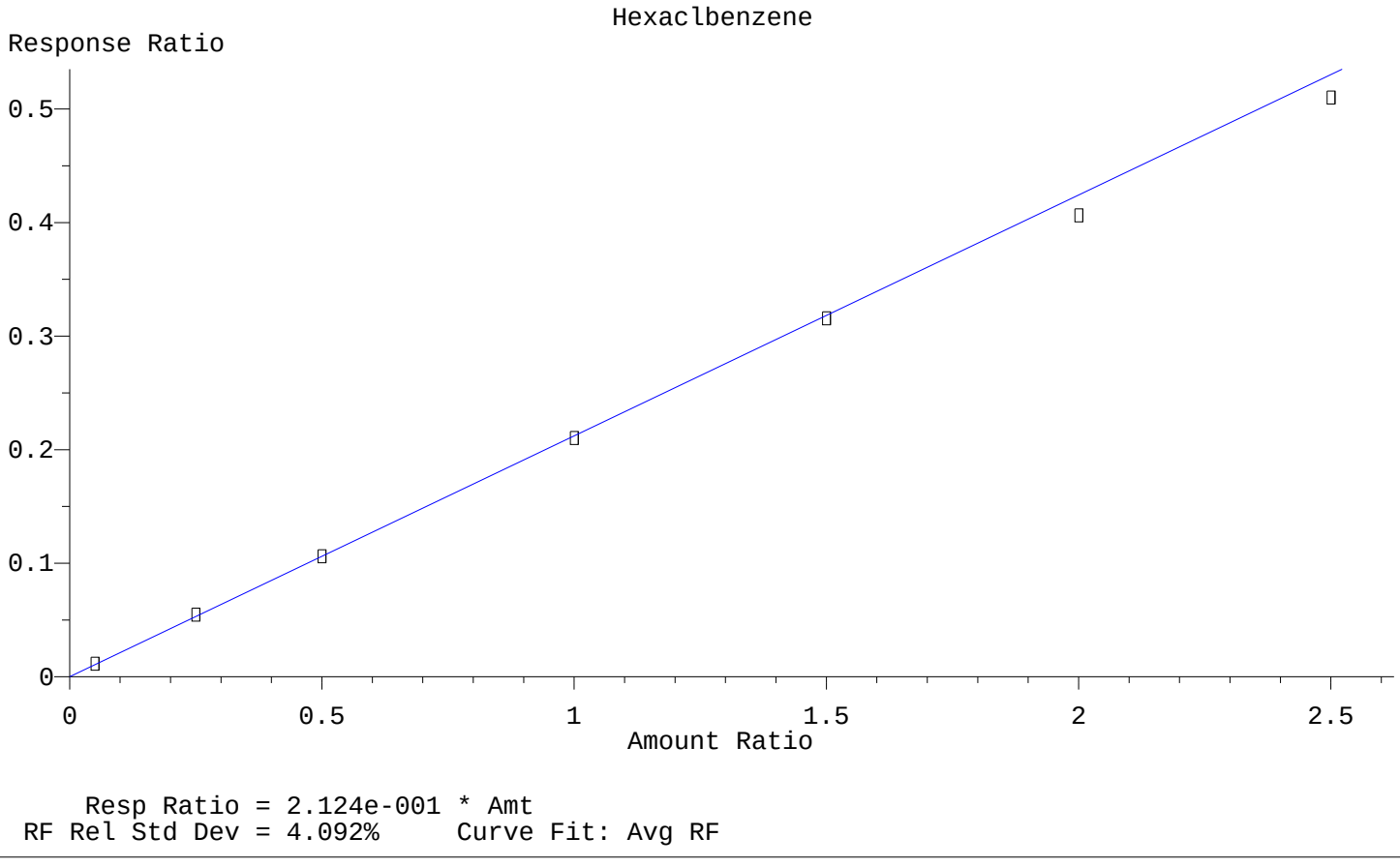

R = -1.717e-002 A*A + 5.498e-001 A + 1.315e-003
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)



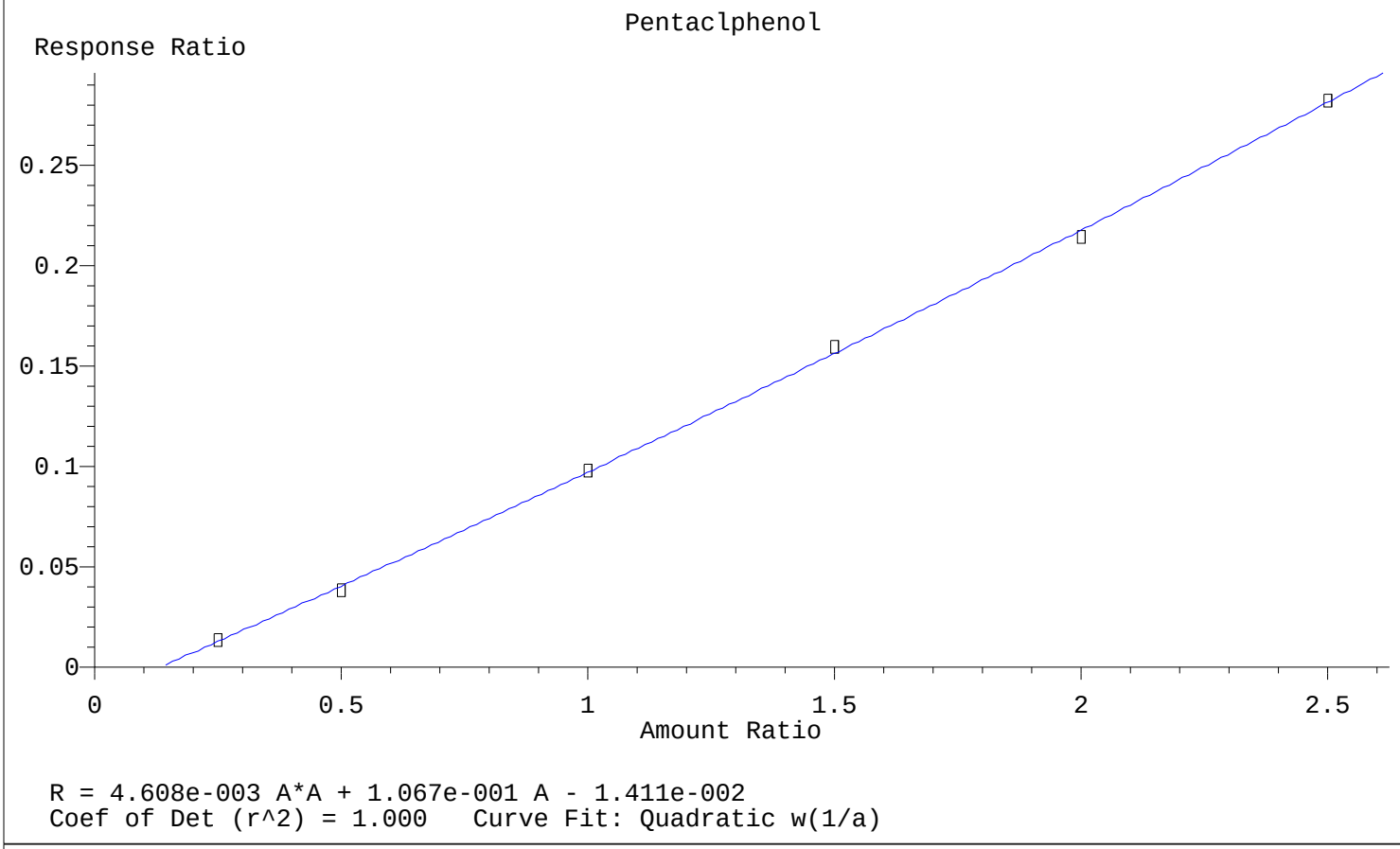

R = -4.790e-003 A*A + 1.944e-001 A + 6.755e-004
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)



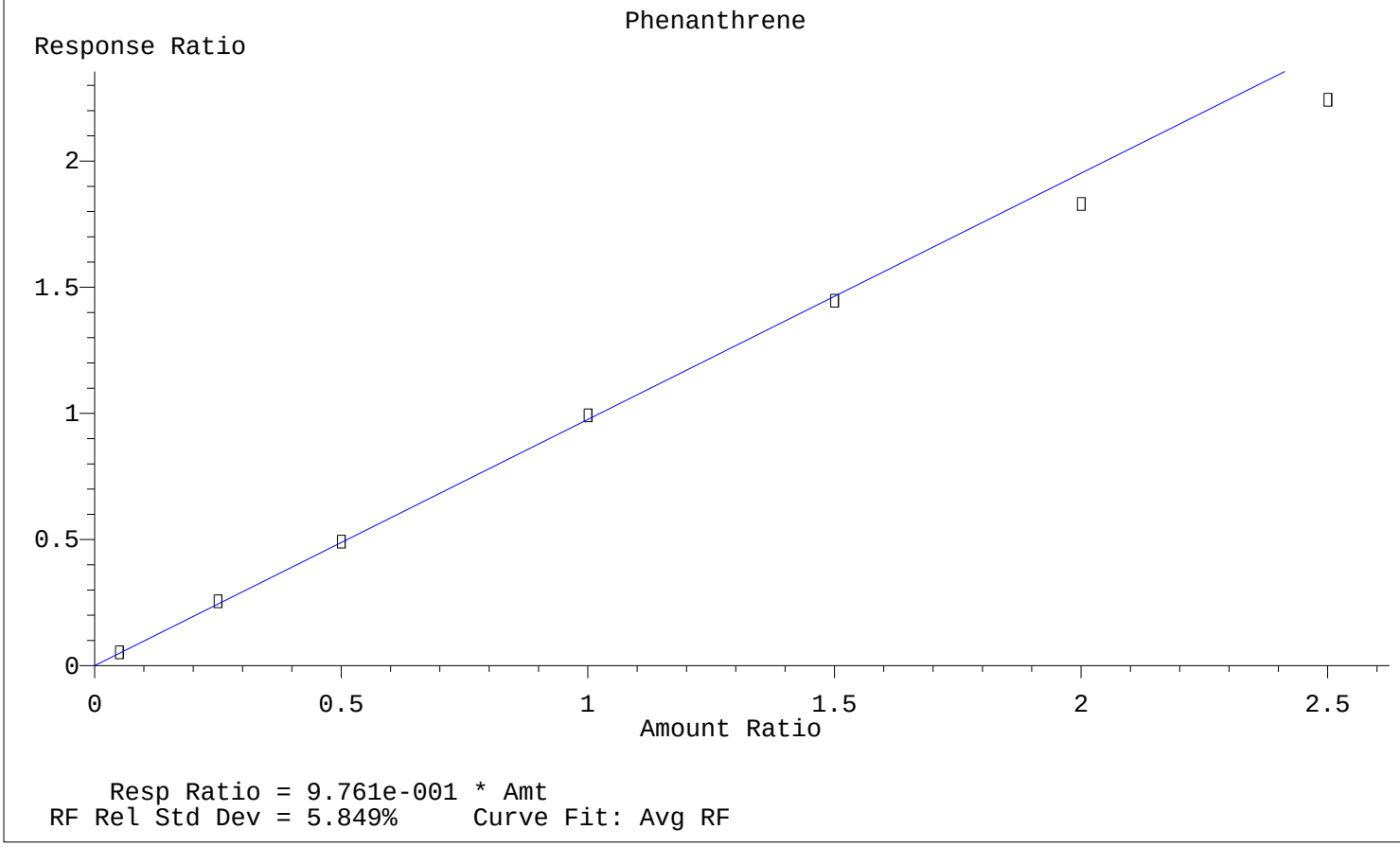

Resp Ratio = 1.882e-001 * Amt
RF Rel Std Dev = 2.706%  Curve Fit: Avg RF



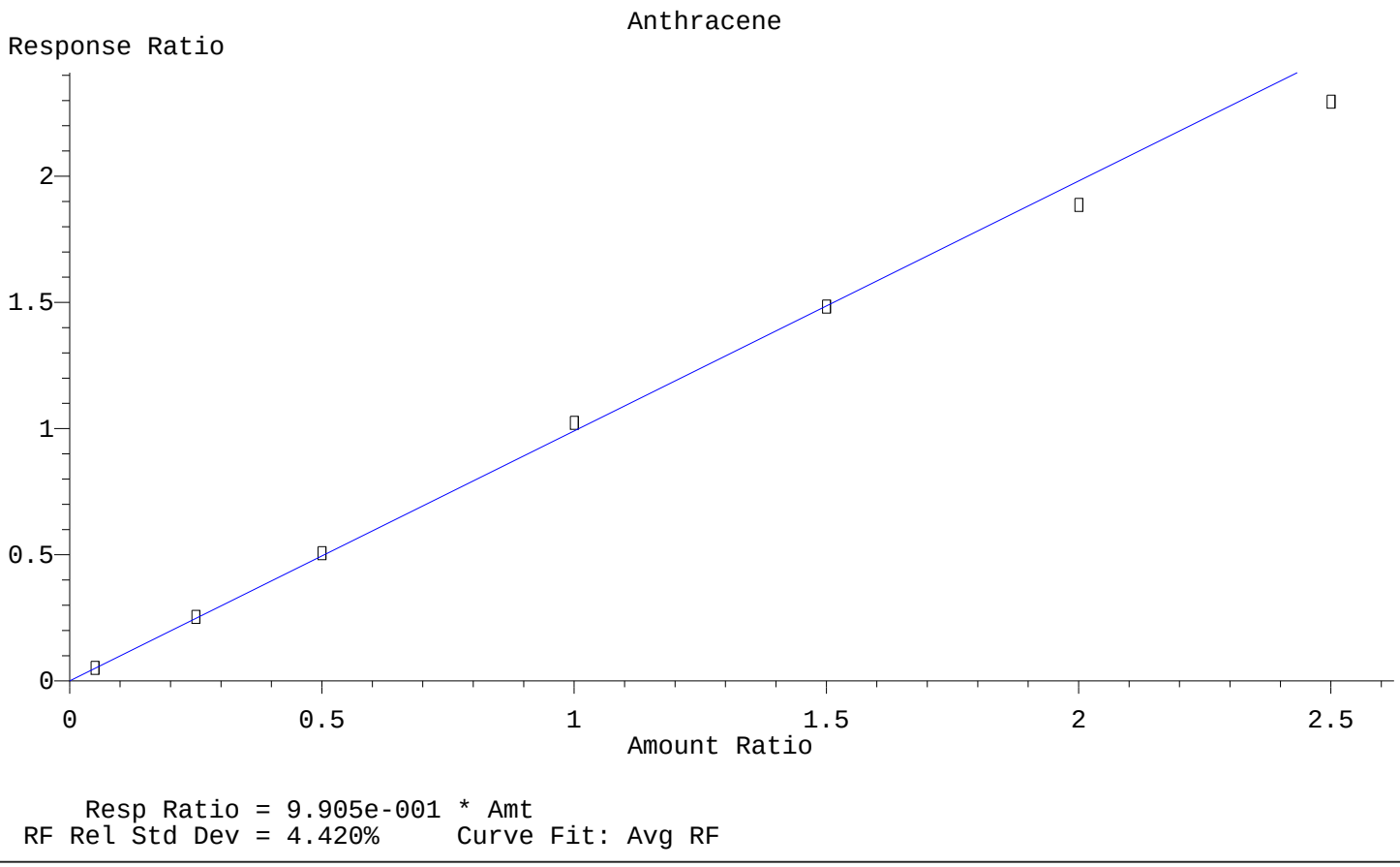

Resp Ratio = 2.124e-001 * Amt
RF Rel Std Dev = 4.092%  Curve Fit: Avg RF



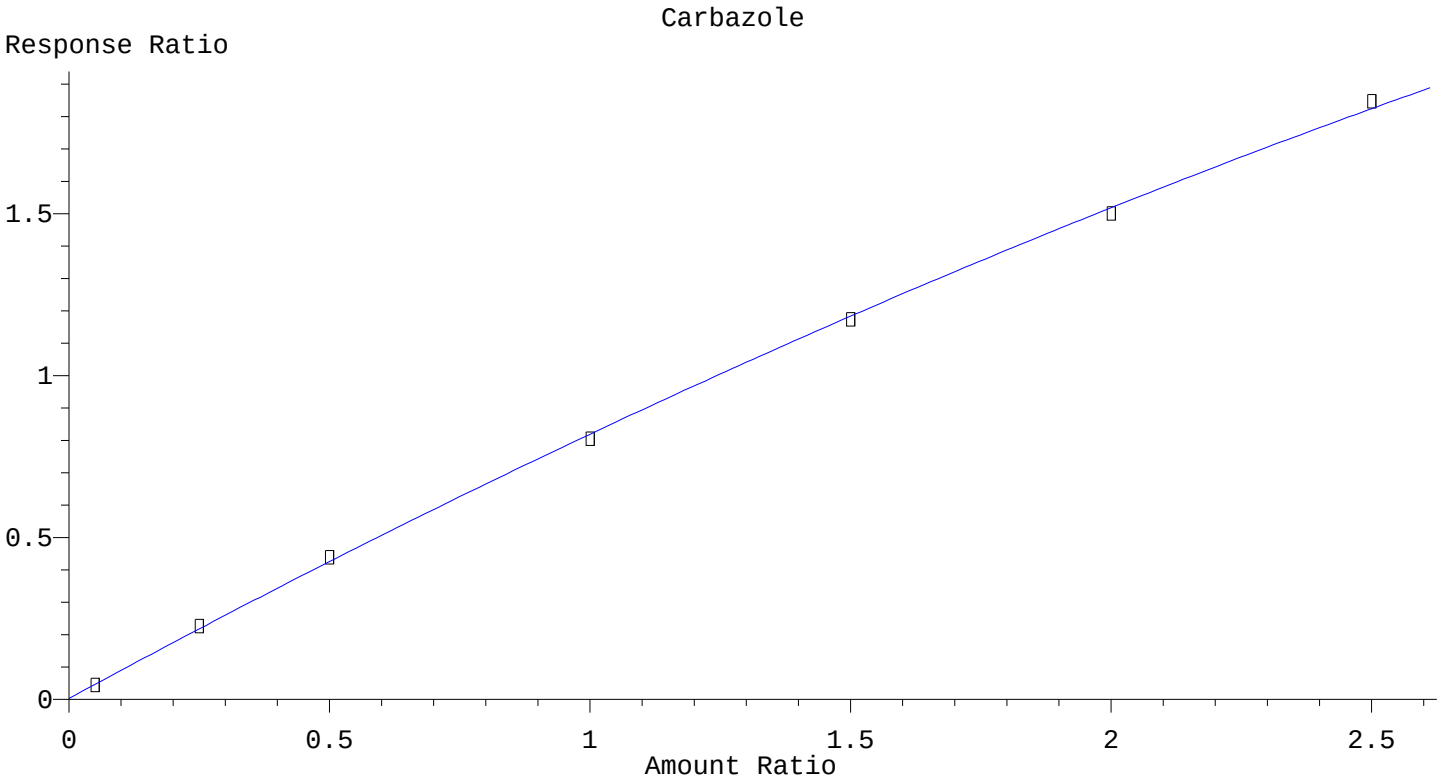

R = 4.608e-003 A*A + 1.067e-001 A - 1.411e-002
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)




Resp Ratio = 9.761e-001 * Amt
RF Rel Std Dev = 5.849%  Curve Fit: Avg RF

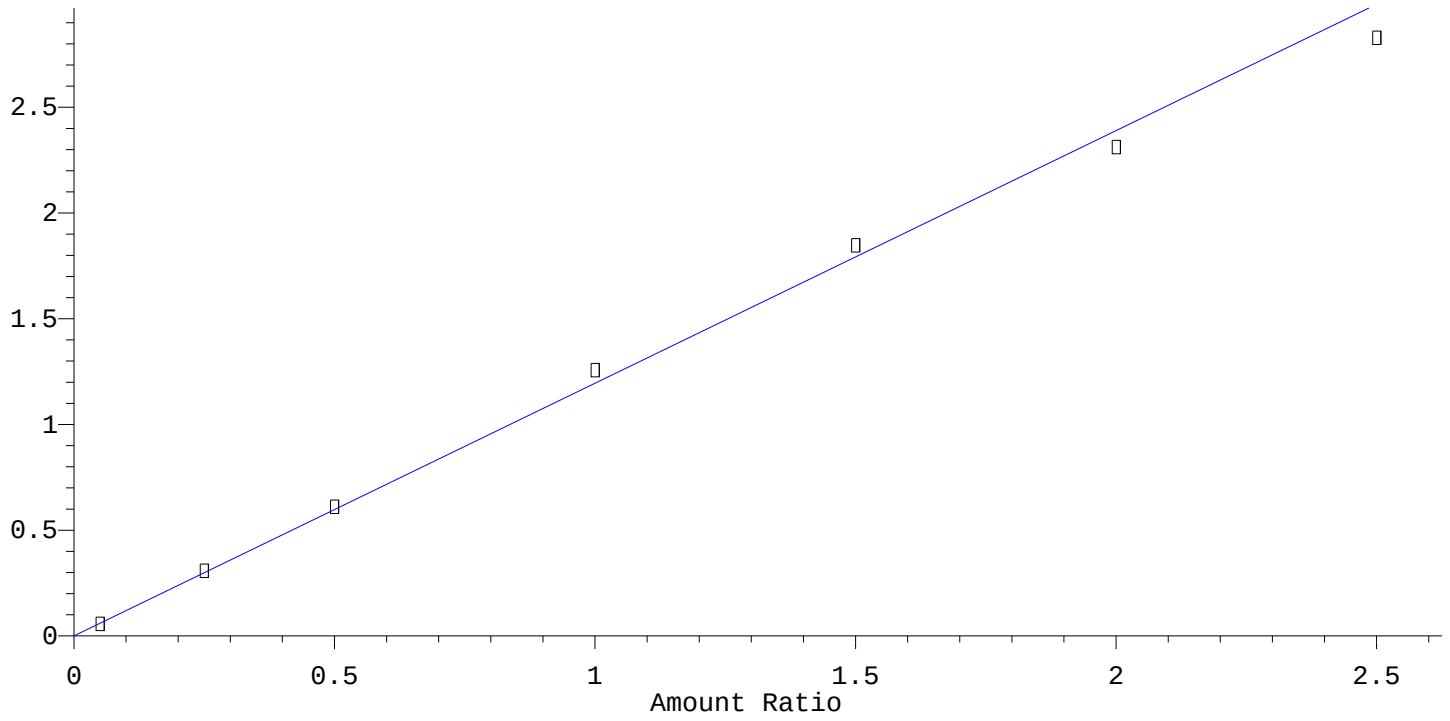



Resp Ratio = 9.905e-001 * Amt
RF Rel Std Dev = 4.420%  Curve Fit: Avg RF



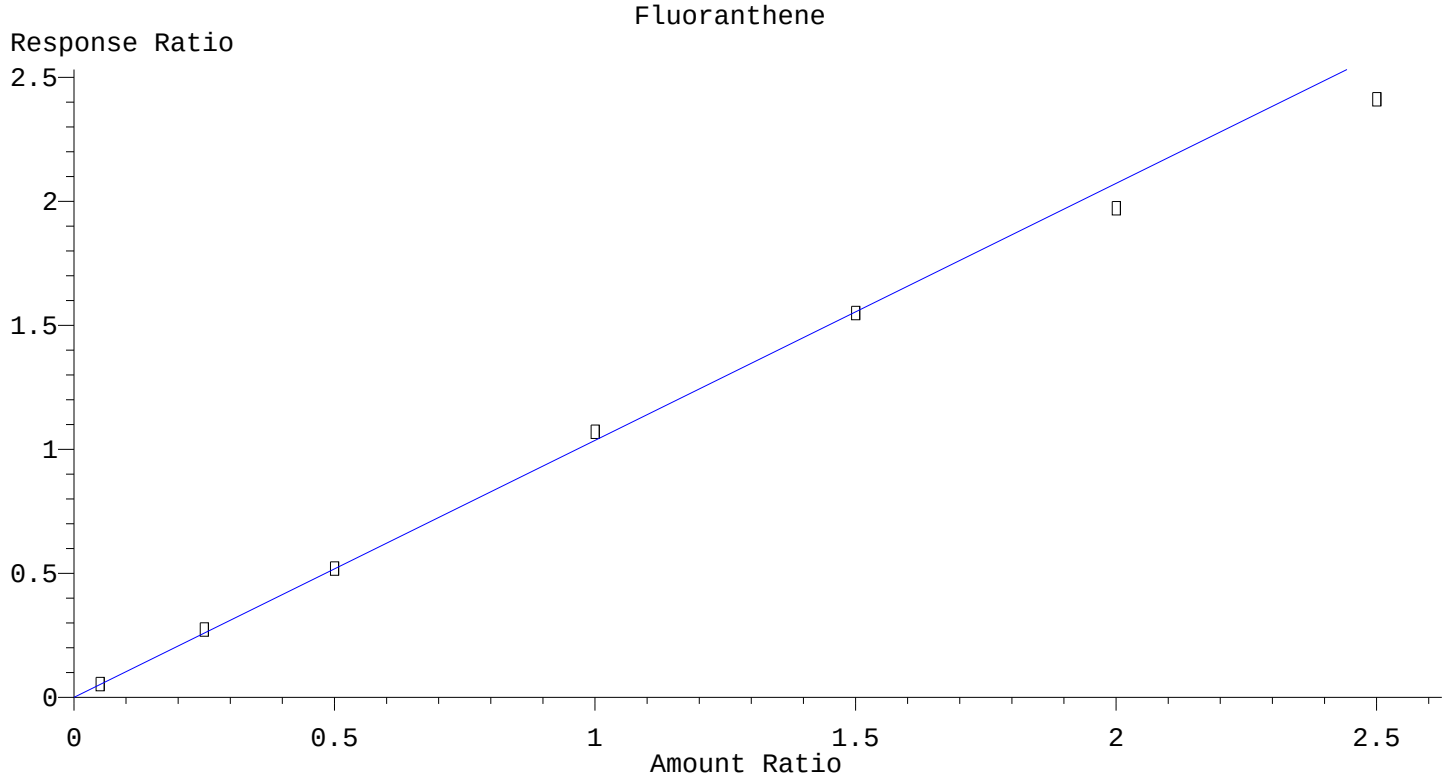

R = -5.836e-002 A*A + 8.745e-001 A + 2.949e-003
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)

Dinbtylphthal



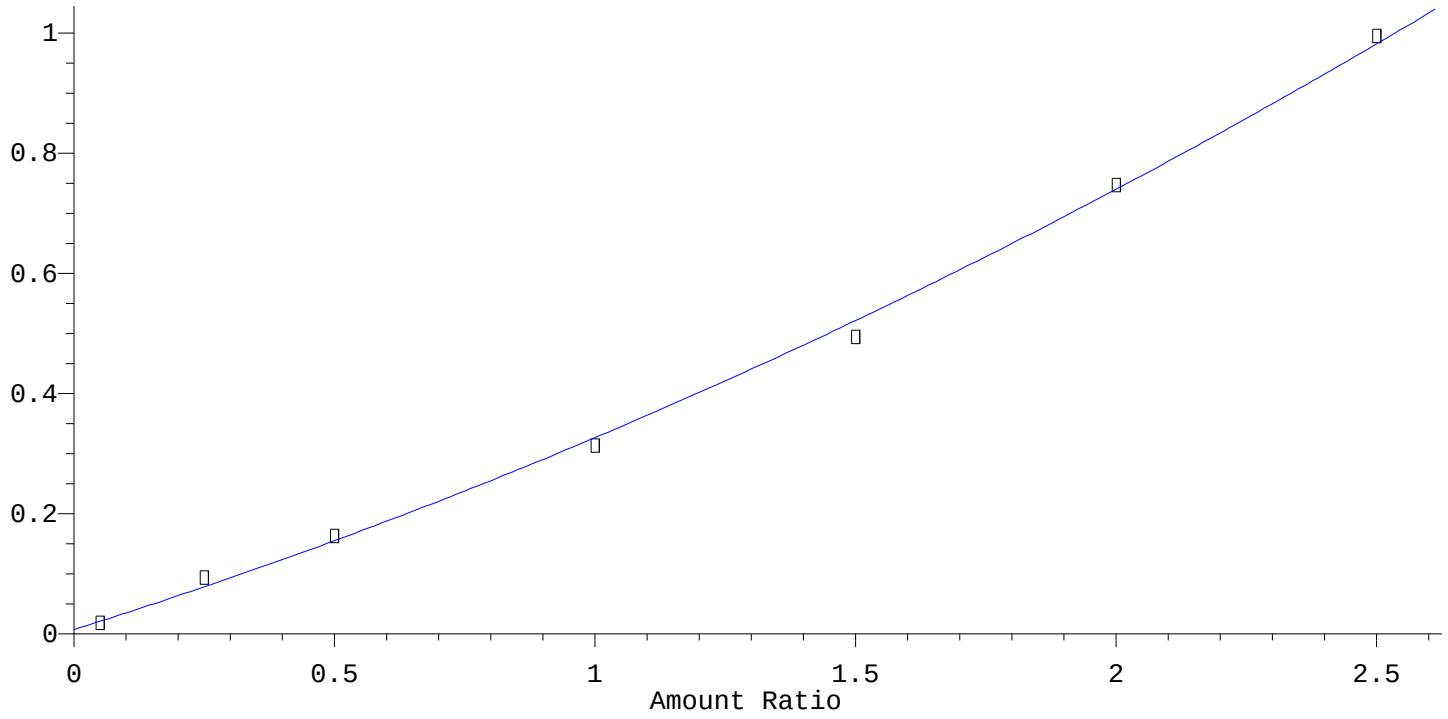

Resp Ratio = 1.195e+000 * Amt
RF Rel Std Dev = 4.306%  Curve Fit: Avg RF

Fluoranthene



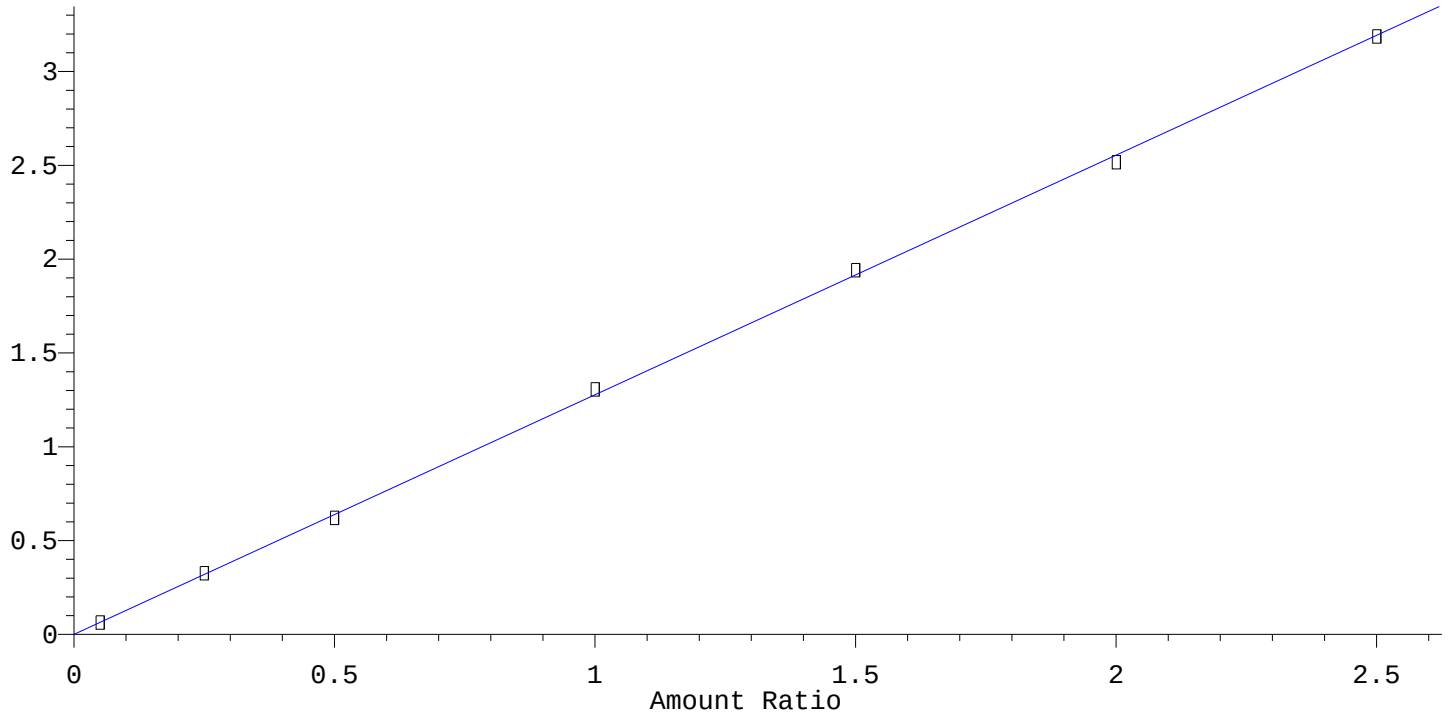

Resp Ratio = 1.036e+000 * Amt
RF Rel Std Dev = 4.544%  Curve Fit: Avg RF

Benzidine



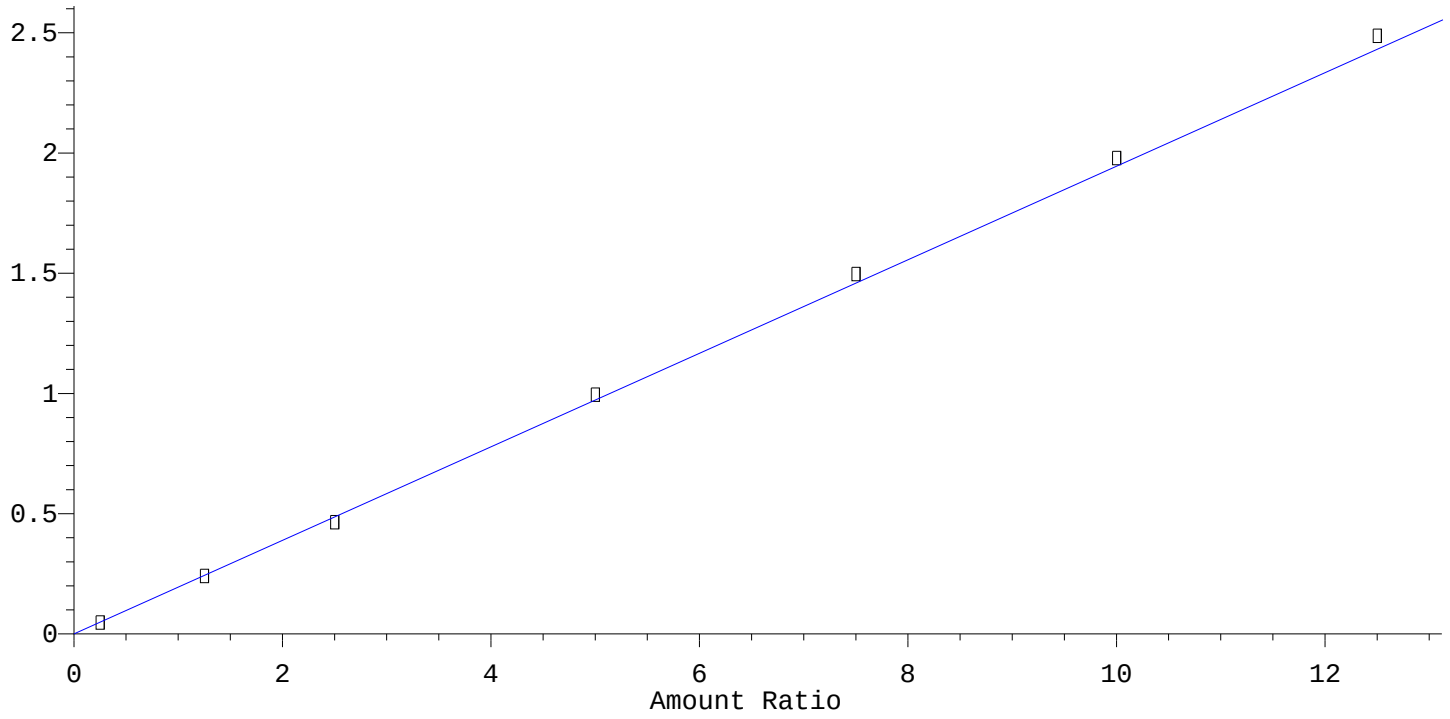

R = 4.709e-002 A*A + 2.722e-001 A + 7.317e-003
Coef of Det (r^2) = 0.998  Curve Fit: Quadratic w(1/a)

Pyrene



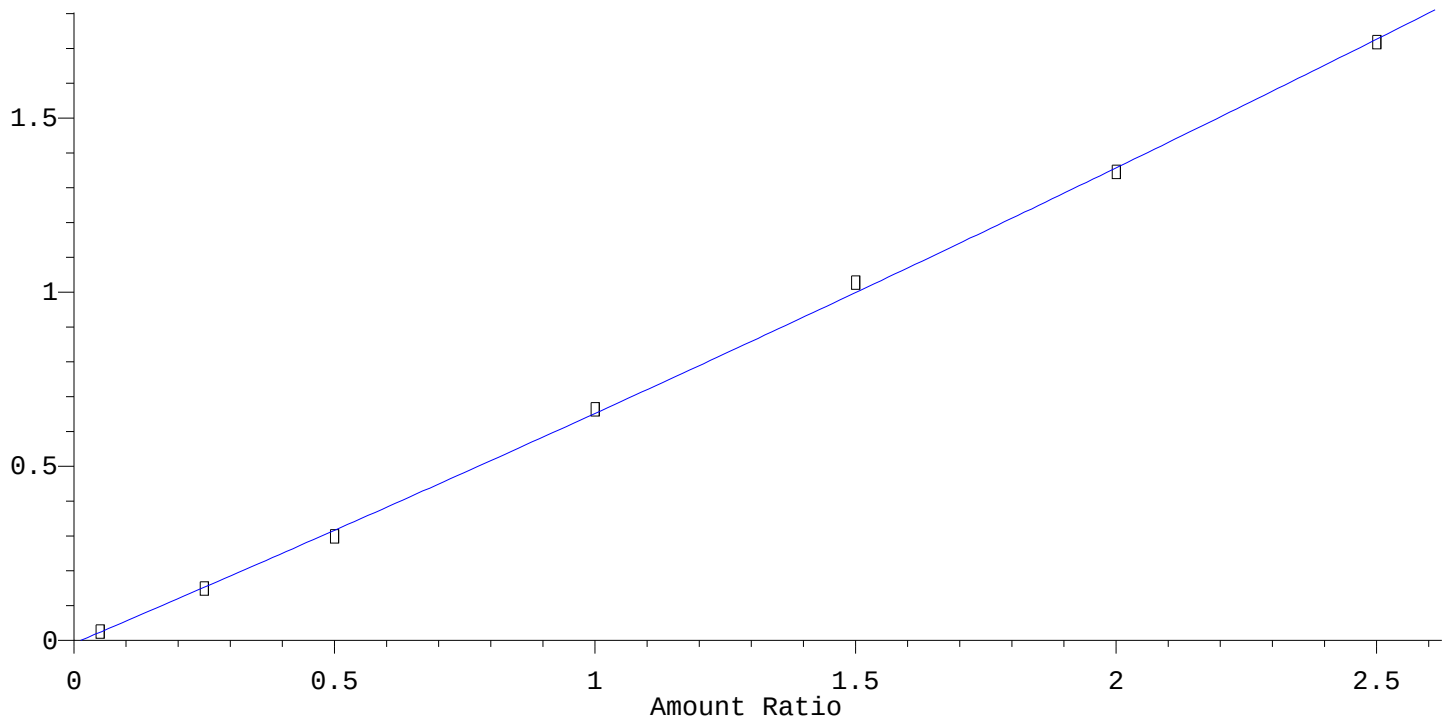

Resp Ratio = 1.277e+000 * Amt
RF Rel Std Dev = 1.871%  Curve Fit: Avg RF

SURRTerphenyl-d14

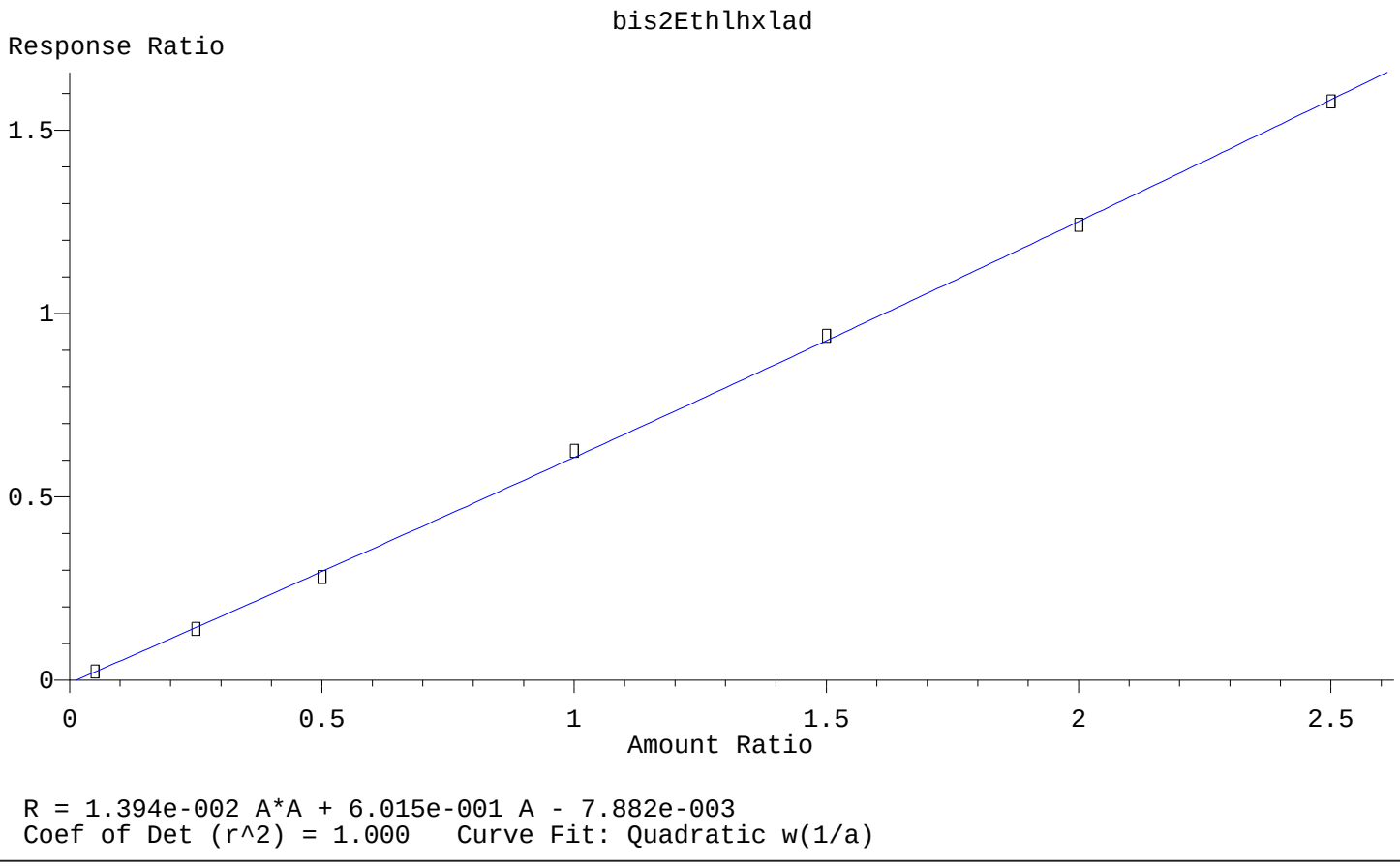



Resp Ratio = 1.946e-001 * Amt
RF Rel Std Dev = 2.903%  Curve Fit: Avg RF

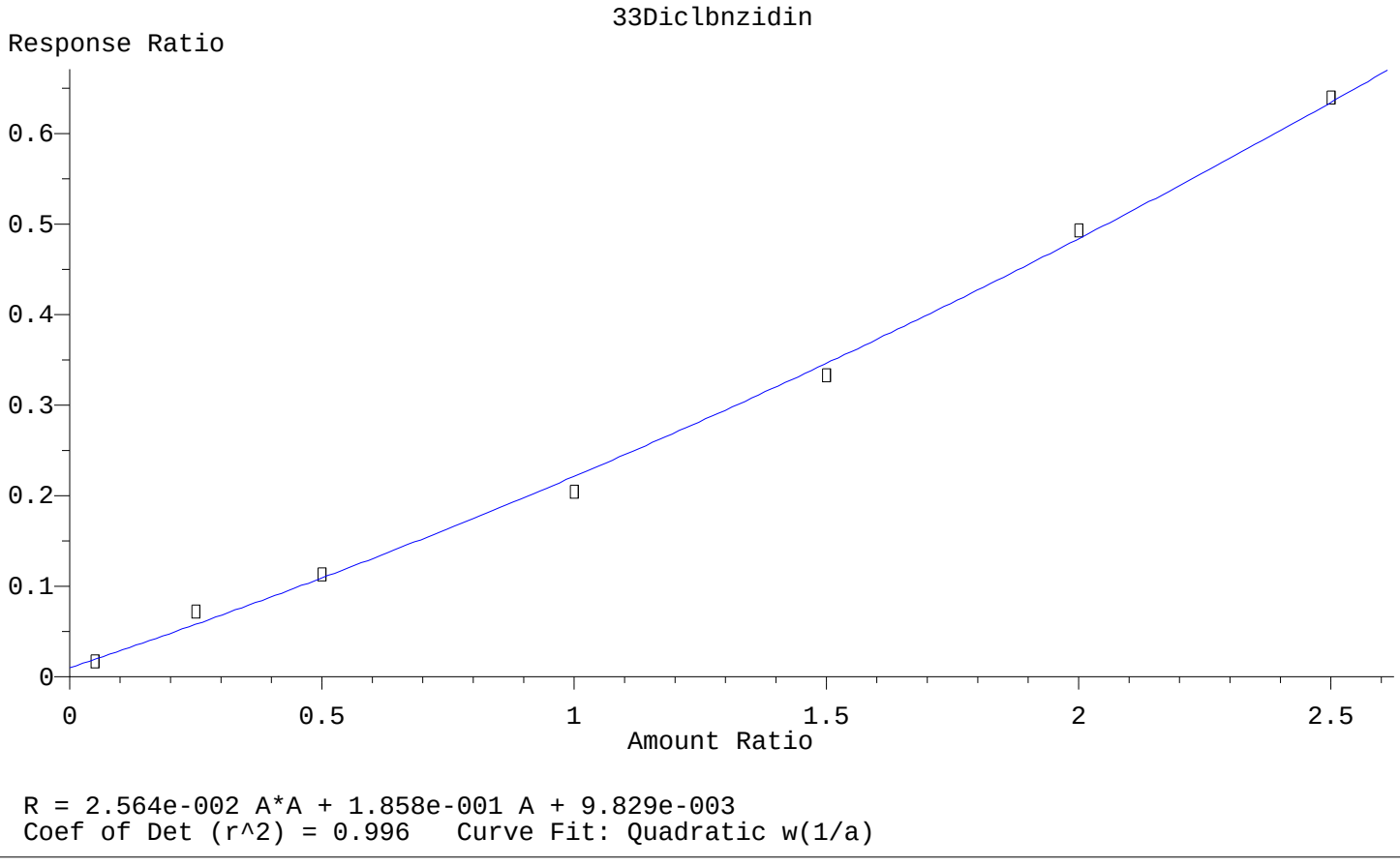
Btylbzylphth




R = 2.251e-002 A*A + 6.376e-001 A - 8.304e-003
Coef of Det (r^2) = 0.999  Curve Fit: Quadratic w(1/a)

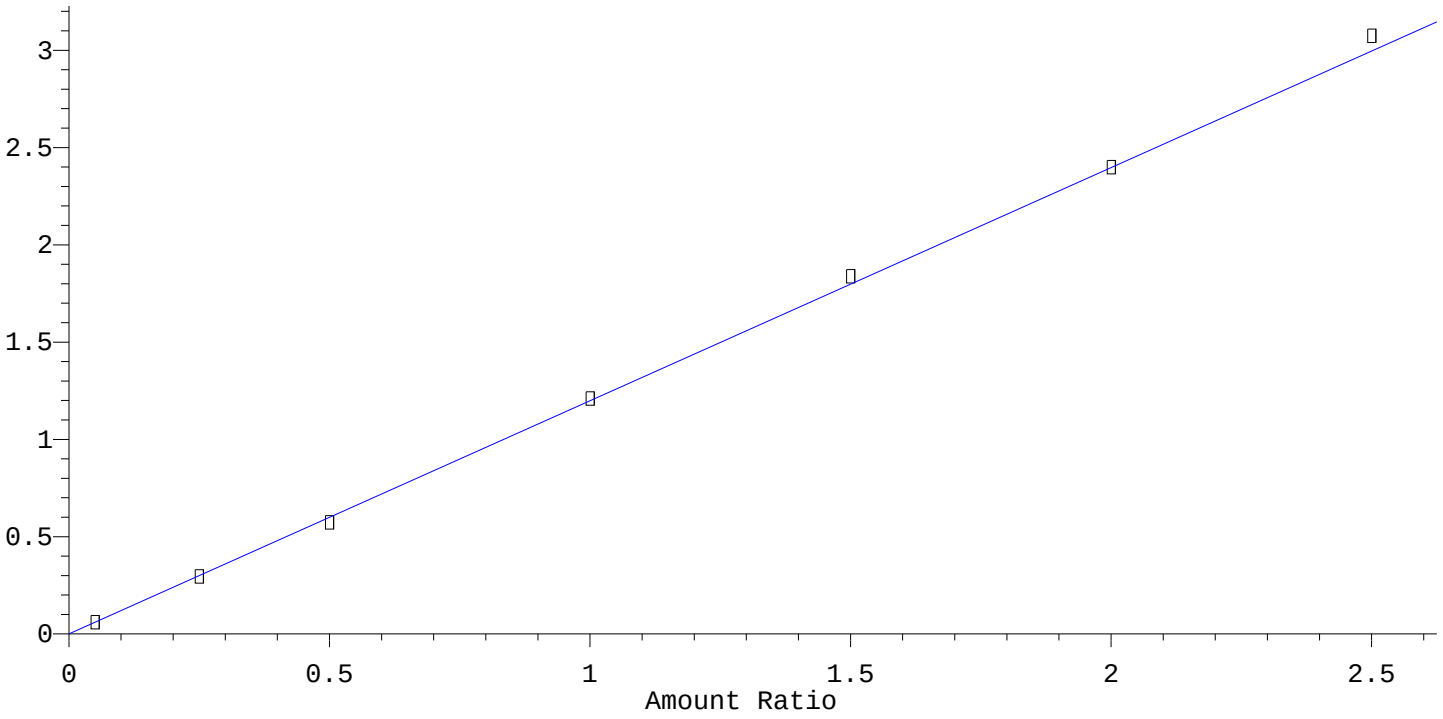



R = 1.394e-002 A*A + 6.015e-001 A - 7.882e-003
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)



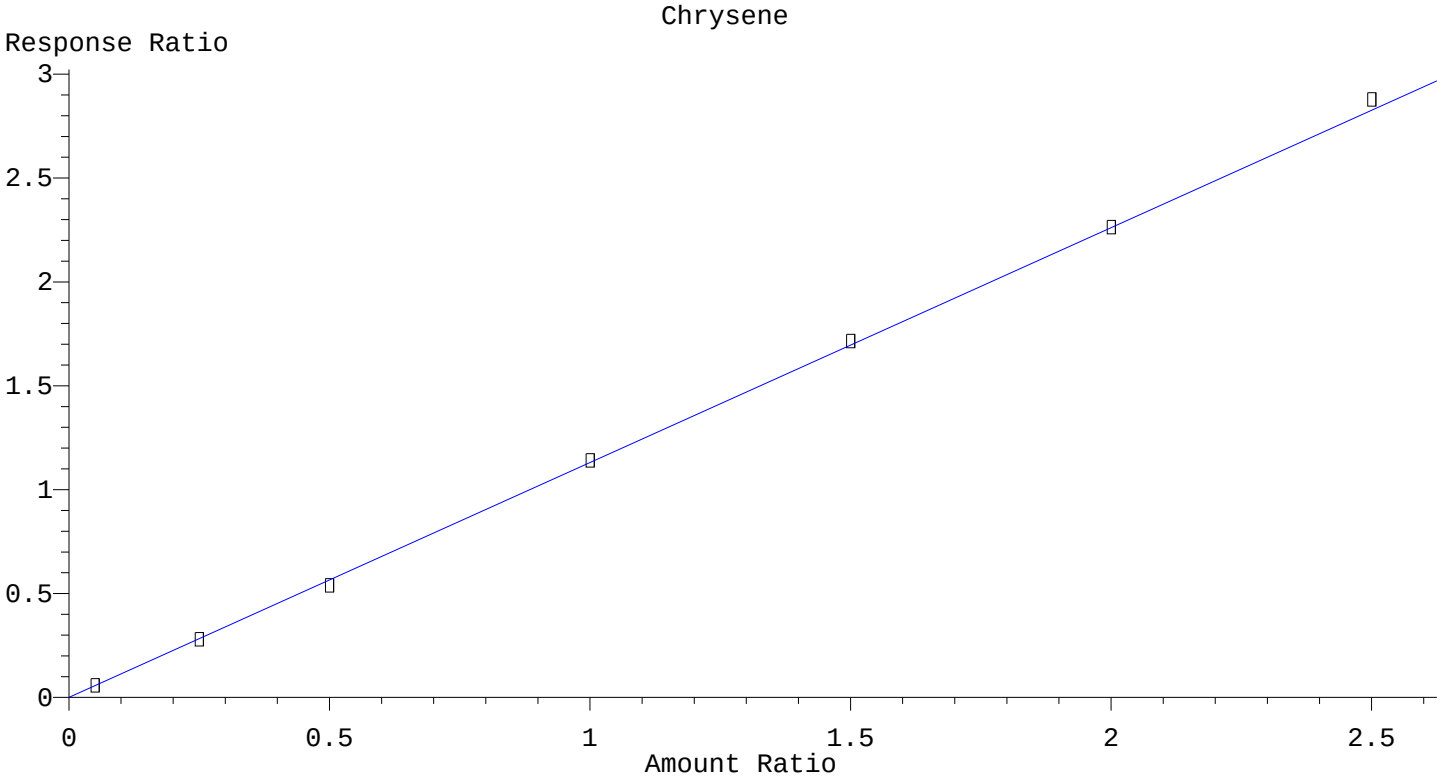

R = 2.564e-002 A*A + 1.858e-001 A + 9.829e-003
Coef of Det (r^2) = 0.996  Curve Fit: Quadratic w(1/a)

B[a]anthracen

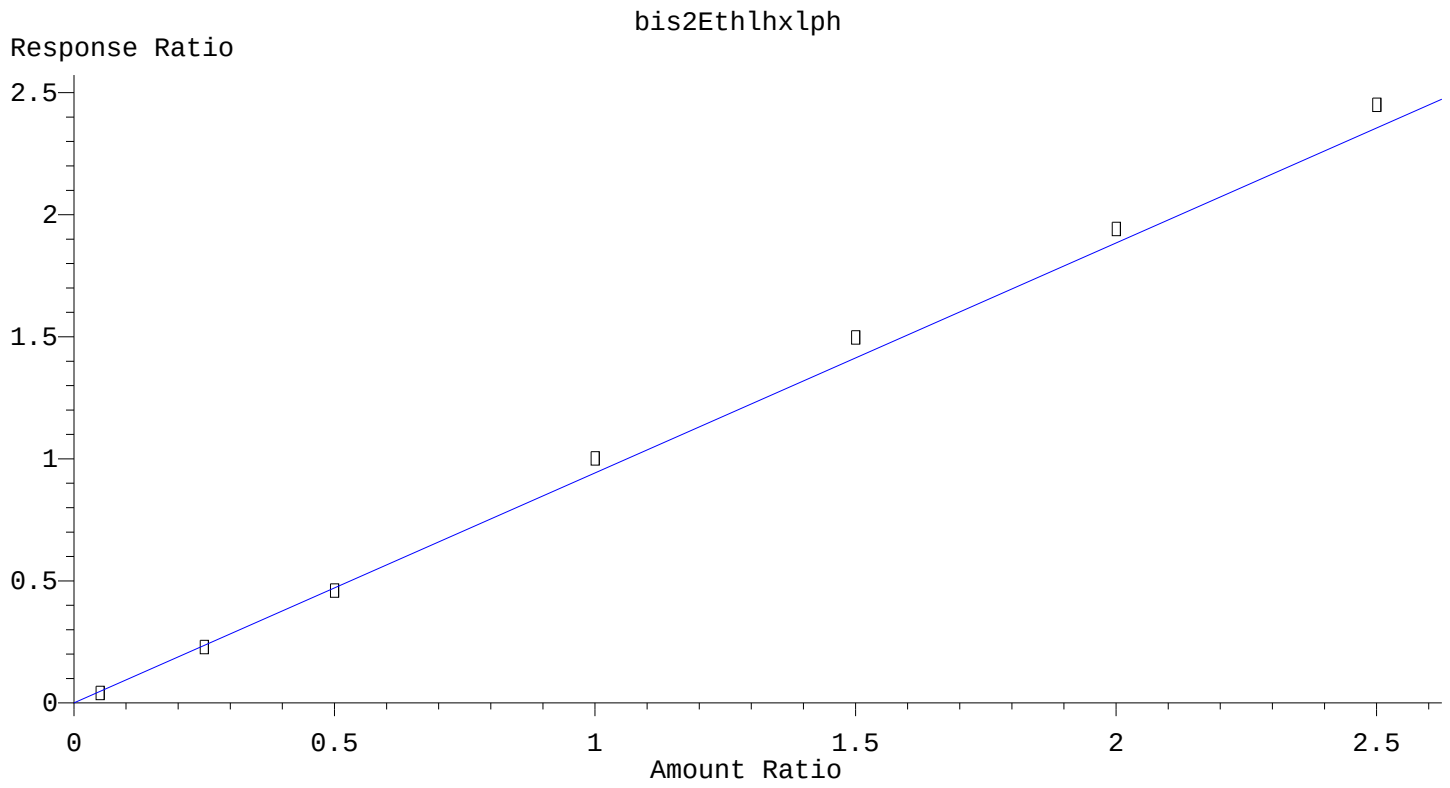



Resp Ratio = 1.198e+000 * Amt
RF Rel Std Dev = 2.357%  Curve Fit: Avg RF

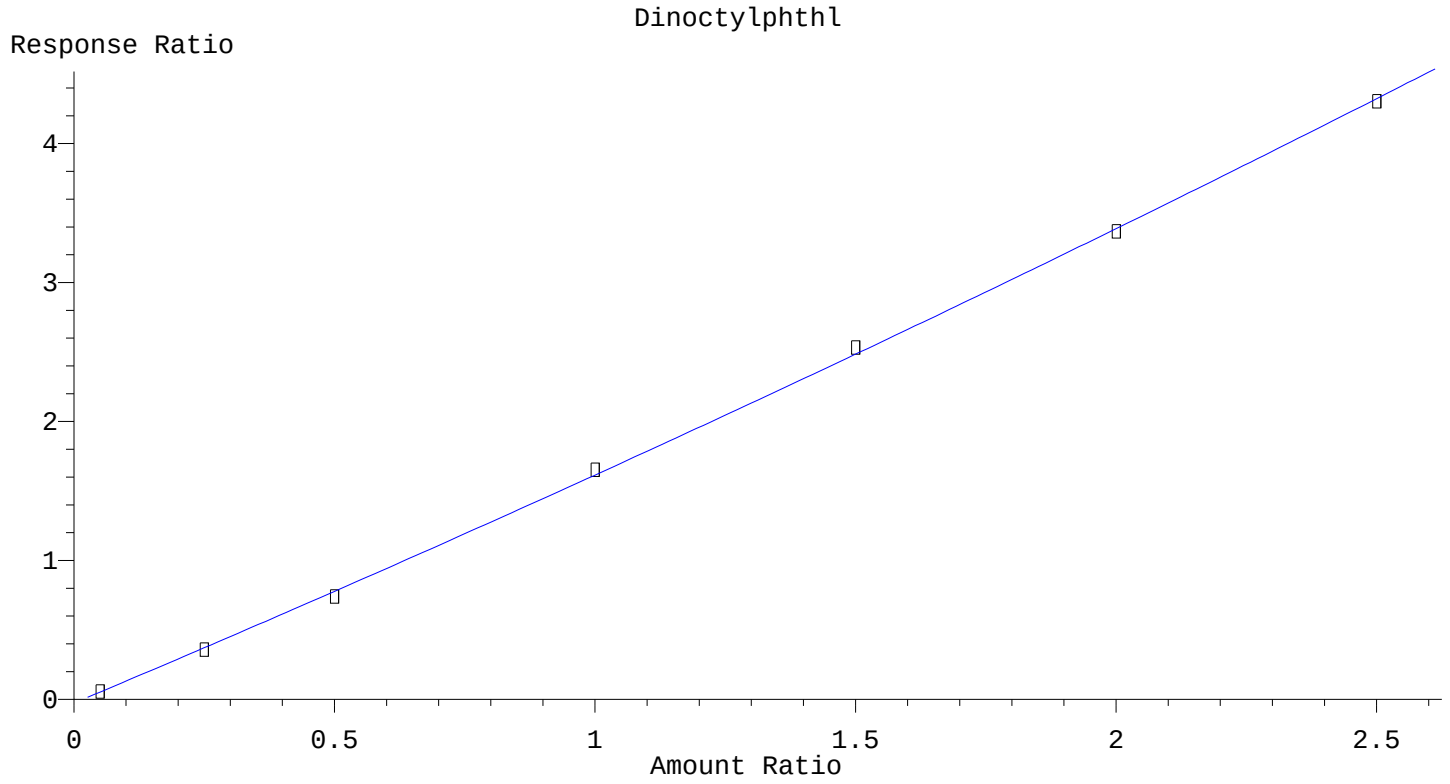
Chrysene



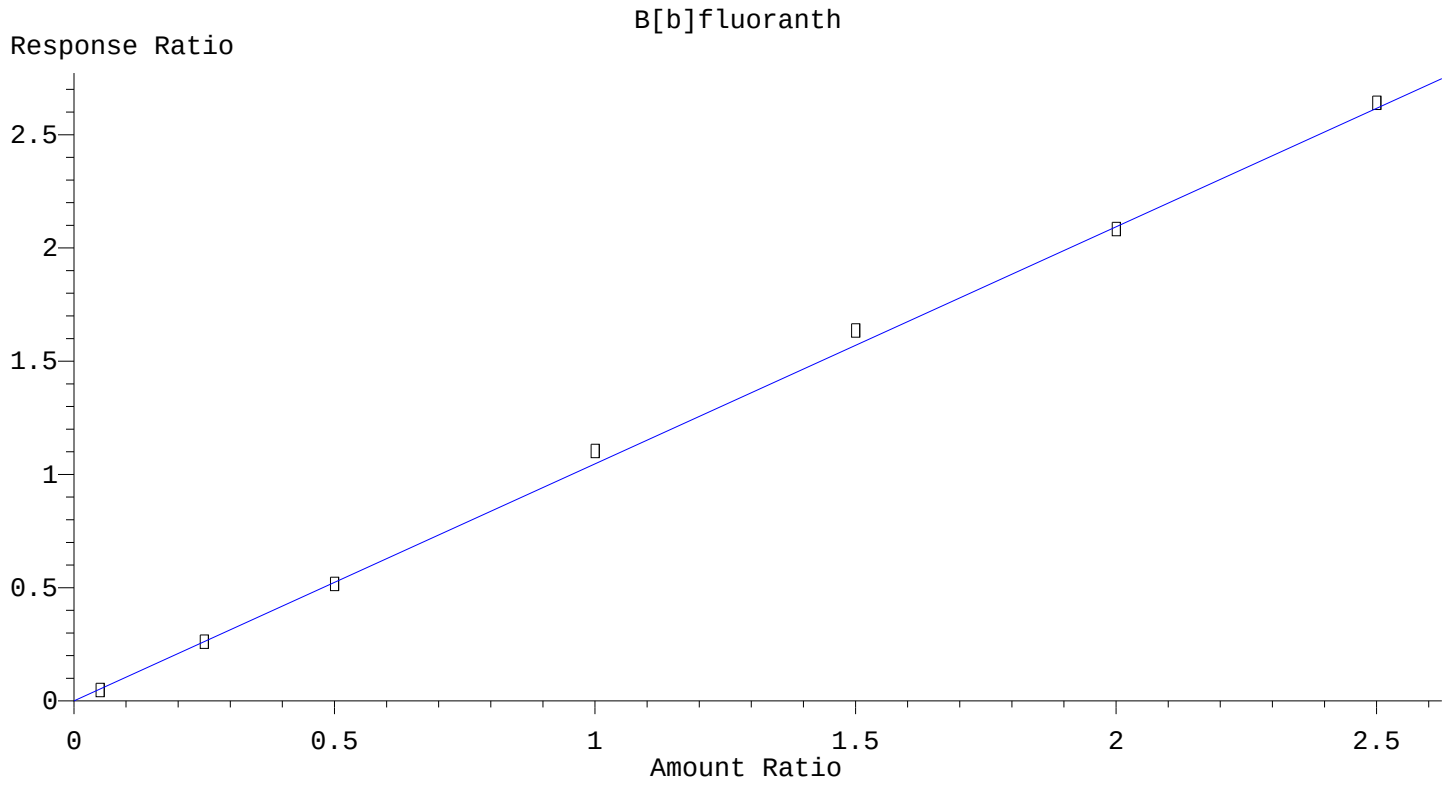

Resp Ratio = 1.130e+000 * Amt
RF Rel Std Dev = 2.285%  Curve Fit: Avg RF



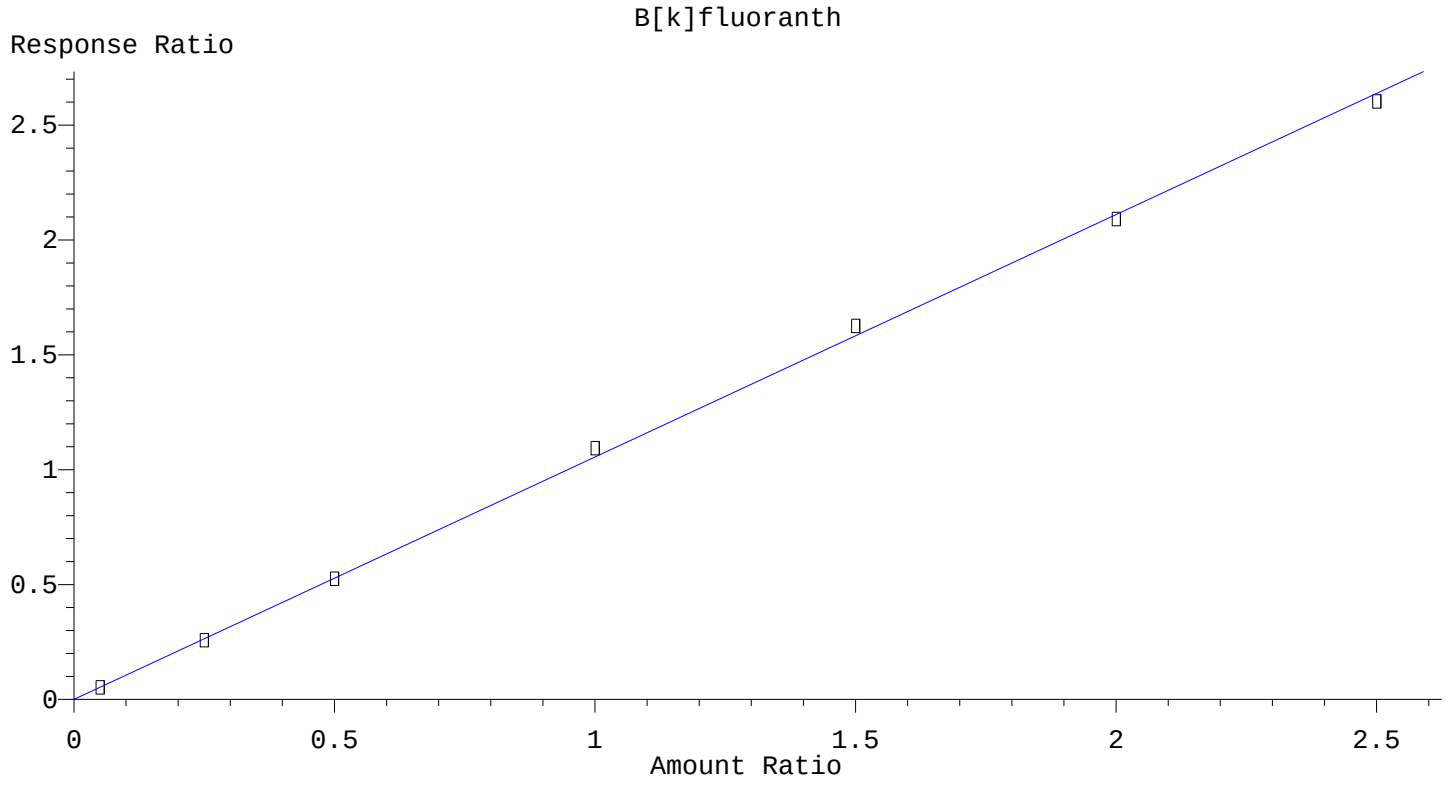

Resp Ratio = 9.420e-001 * Amt
RF Rel Std Dev = 7.310%  Curve Fit: Avg RF



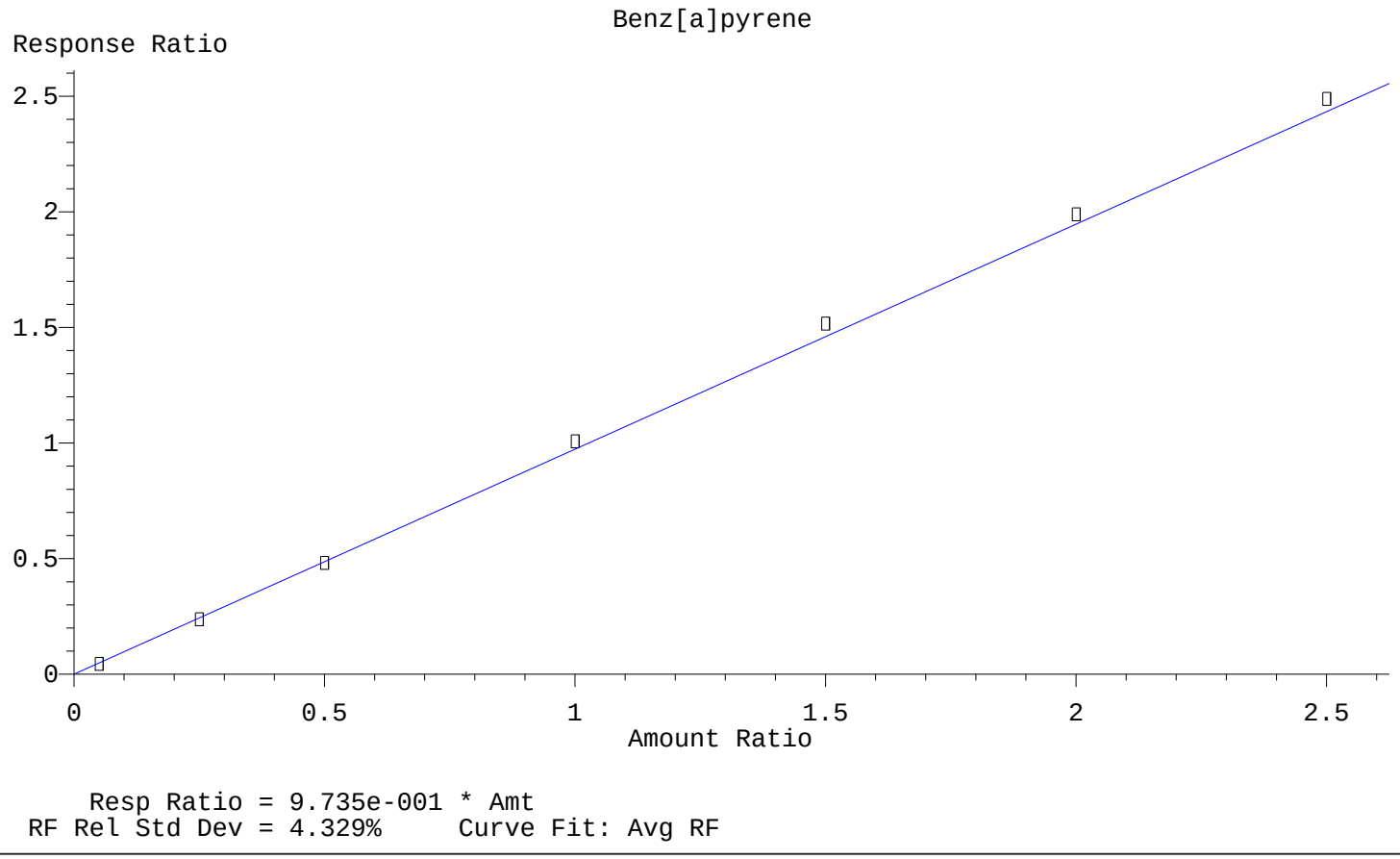

R = 6.611e-002 A*A + 1.574e+000 A - 2.624e-002
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)



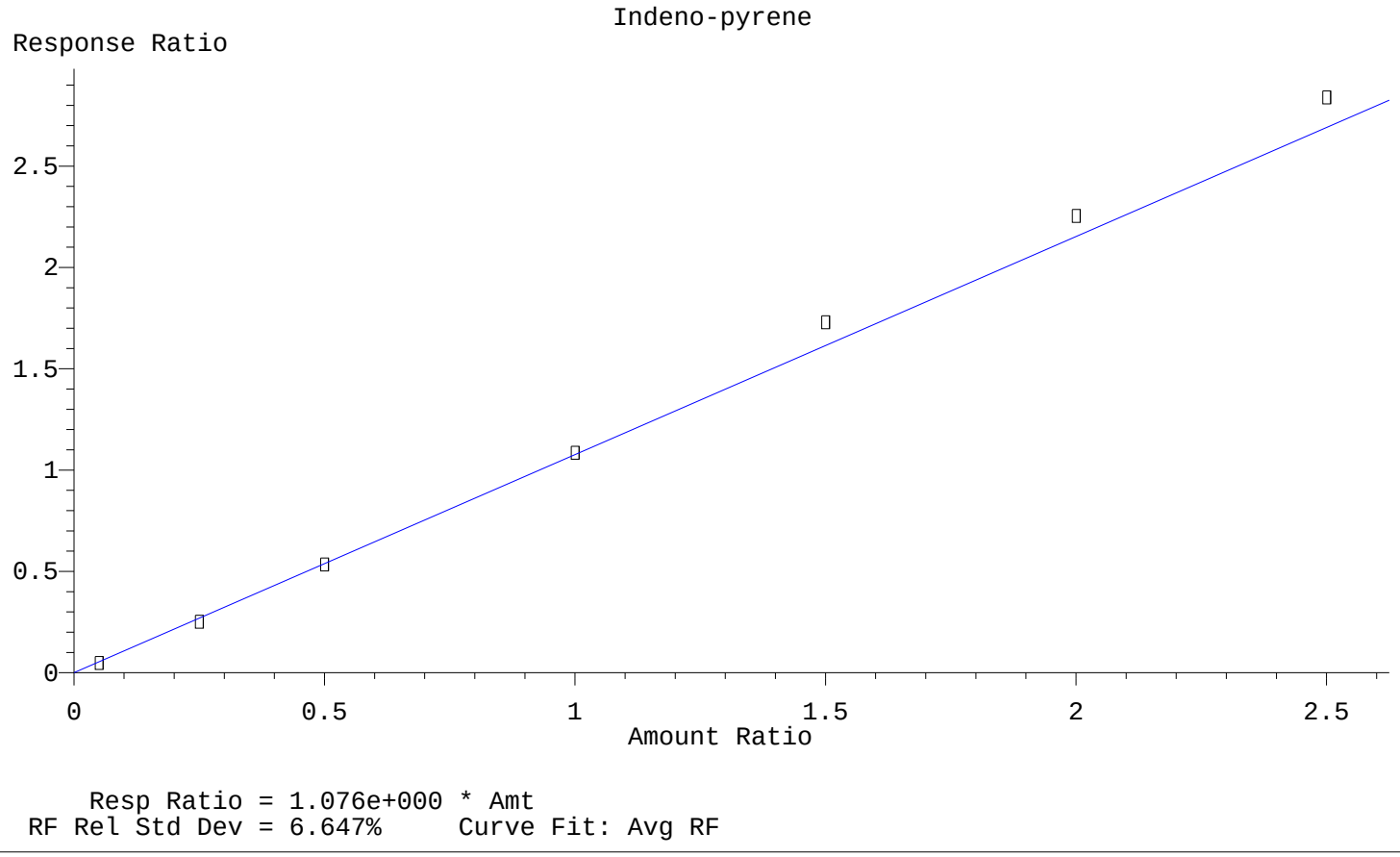

Resp Ratio = 1.047e+000 * Amt
RF Rel Std Dev = 4.556%  Curve Fit: Avg RF



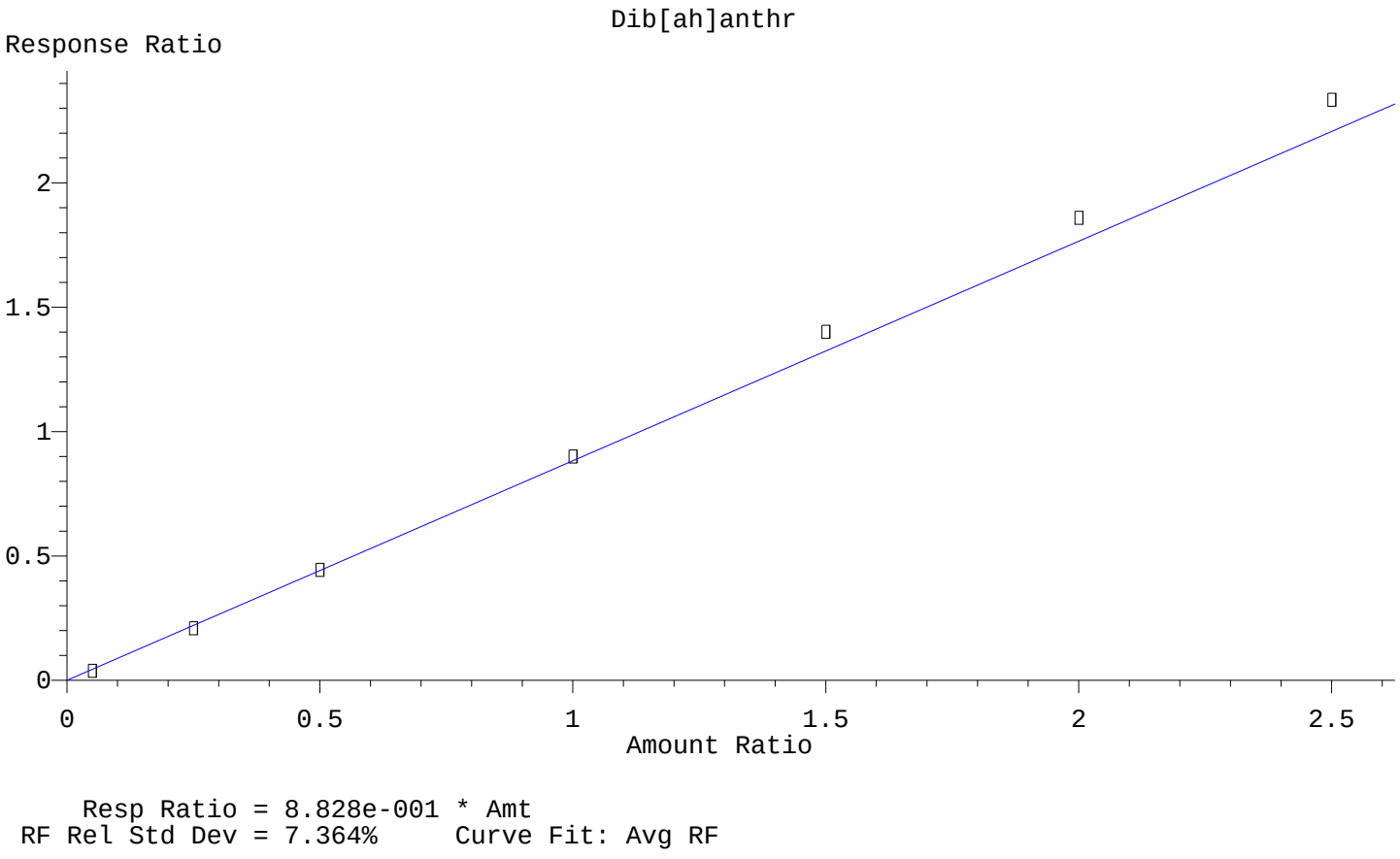

Resp Ratio = 1.055e+000 * Amt
RF Rel Std Dev = 2.256%  Curve Fit: Avg RF



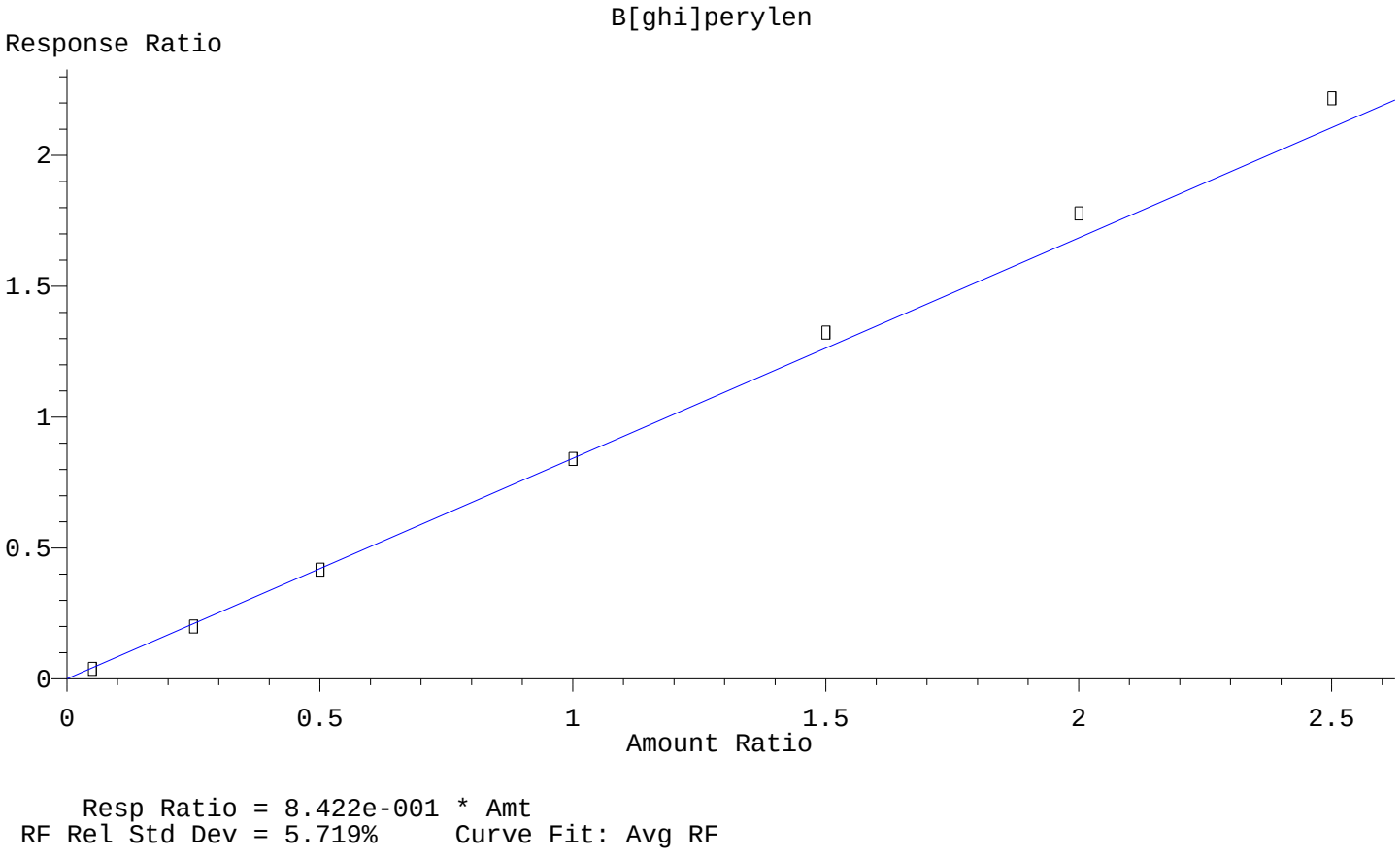

Resp Ratio = 9.735e-001 * Amt
RF Rel Std Dev = 4.329%  Curve Fit: Avg RF




Resp Ratio = 1.076e+000 * Amt
RF Rel Std Dev = 6.647%  Curve Fit: Avg RF




Resp Ratio = 8.828e-001 * Amt
RF Rel Std Dev = 7.364%  Curve Fit: Avg RF




Resp Ratio = 8.422e-001 * Amt
RF Rel Std Dev = 5.719%  Curve Fit: Avg RF

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Benzoic Acid |
| **# of Calibration Levels (*n* ):** | 6 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | | | 0 | *0.00%* |
| 2 | 5 | 5.1944 | 0.000503885 | *3.89%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 19.653 | 0.000100341 | *1.74%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000604226 | |
| | | ***% RSE*:** | ***2.46%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 2-Nitroaniline |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.0293 | 0.000214623 | *2.93%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.239 | 3.57006E-05 | *1.20%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000250323 | |
| | | ***% RSE*:** | ***1.58%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 3-Nitroaniline |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n - p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 0.9489 | 0.000652803 | *5.11%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 19.3189 | 0.000289936 | *3.41%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000942738 | |
| | | ***% RSE*:** | ***3.07%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 2,4-Dinitrophenol |
| **# of Calibration Levels (*n* ):** | 6 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | | | 0 | *0.00%* |
| 2 | 5 | 5.2859 | 0.001089851 | *5.72%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 19.651 | 0.000101501 | *1.75%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.001191352 | |
| | | ***% RSE*:** | ***3.45%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 4-Nitrophenol |
| **# of Calibration Levels (*n* ):** | 6 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n - p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | | | 0 | *0.00%* |
| 2 | 5 | 5.1013 | 0.000136823 | *2.03%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 19.7309 | 6.03457E-05 | *1.35%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000197168 | |
| | | ***% RSE*:** | ***1.40%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 2,3,5,6-Tetrachlorophenol |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.0513 | 0.000657922 | *5.13%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.3731 | 8.70023E-05 | *1.87%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000744925 | |
| | | ***% RSE*:** | ***2.73%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 2,3,4,6-Tetrachlorophenol |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.011 | 3.025E-05 | *1.10%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.2176 | 2.95936E-05 | *1.09%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 5.98436E-05 | |
| | | ***% RSE*:** | ***0.77%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 4,6-Dinitro-2-Methylphenol |
| **# of Calibration Levels (*n* ):** | 6 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | | | 0 | *0.00%* |
| 2 | 5 | 5.1117 | 0.000166359 | *2.23%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 19.7797 | 4.04434E-05 | *1.10%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000206802 | |
| | | ***% RSE*:** | ***1.44%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | N-Nitrosodiphenylamine and Diphenylamine |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 2 | 1.9863 | 1.17306E-05 | *0.69%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 40 | 40.2584 | 1.04329E-05 | *0.65%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 2.21635E-05 | |
| | | ***% RSE*:** | ***0.47%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Azobenzene and 1,2-Diphenylhydrazine |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 2 | 2.0368 | 8.464E-05 | *1.84%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 40 | 40.7193 | 8.08426E-05 | *1.80%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000165483 | |
| | | ***% RSE*:** | ***1.29%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Pentachlorophenol |
| **# of Calibration Levels (*n* ):** | 6 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | | | 0 | *0.00%* |
| 2 | 5 | 5.1185 | 0.00018723 | *2.37%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.1224 | 1.24848E-05 | *0.61%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000199715 | |
| | | ***% RSE*:** | ***1.41%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Carbazole |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 0.9552 | 0.00050176 | *4.48%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 19.6218 | 8.9397E-05 | *1.89%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000591157 | |
| | | ***% RSE*:** | ***2.43%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Benzidine |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n - p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 0.8018 | 0.00982081 | *19.82%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 19.2793 | 0.00032463 | *3.60%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.01014544 | |
| | | ***% RSE*:** | ***10.07%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Butylbenzylphthalate |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.0447 | 0.000499522 | *4.47%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.3357 | 7.04341E-05 | *1.68%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000569957 | |
| | | ***% RSE*:** | ***2.39%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Bis(2-ethylhexyl)adipate |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.041 | 0.00042025 | *4.10%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.5657 | 0.00020001 | *2.83%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.00062026 | |
| | | ***% RSE*:** | ***2.49%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 3,3-Dichlorobenzidine |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 0.759 | 0.01452025 | *24.10%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 18.5609 | 0.001294381 | *7.20%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.015814631 | |
| | | ***% RSE*:** | ***12.58%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040725 |
| **ICAL Date:** | 04/07/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Di-n-octylphthalate |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.0473 | 0.000559322 | *4.73%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.4409 | 0.000121496 | *2.20%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000680818 | |
| | | ***% RSE*:** | ***2.61%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2IB01.D Vial: 2
Acq On : 7 Apr 2025 10:13 Operator: JJY
Sample : Instrument Blank Inst : SVMS2
Misc : 1000 ul + 10ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:50:28 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

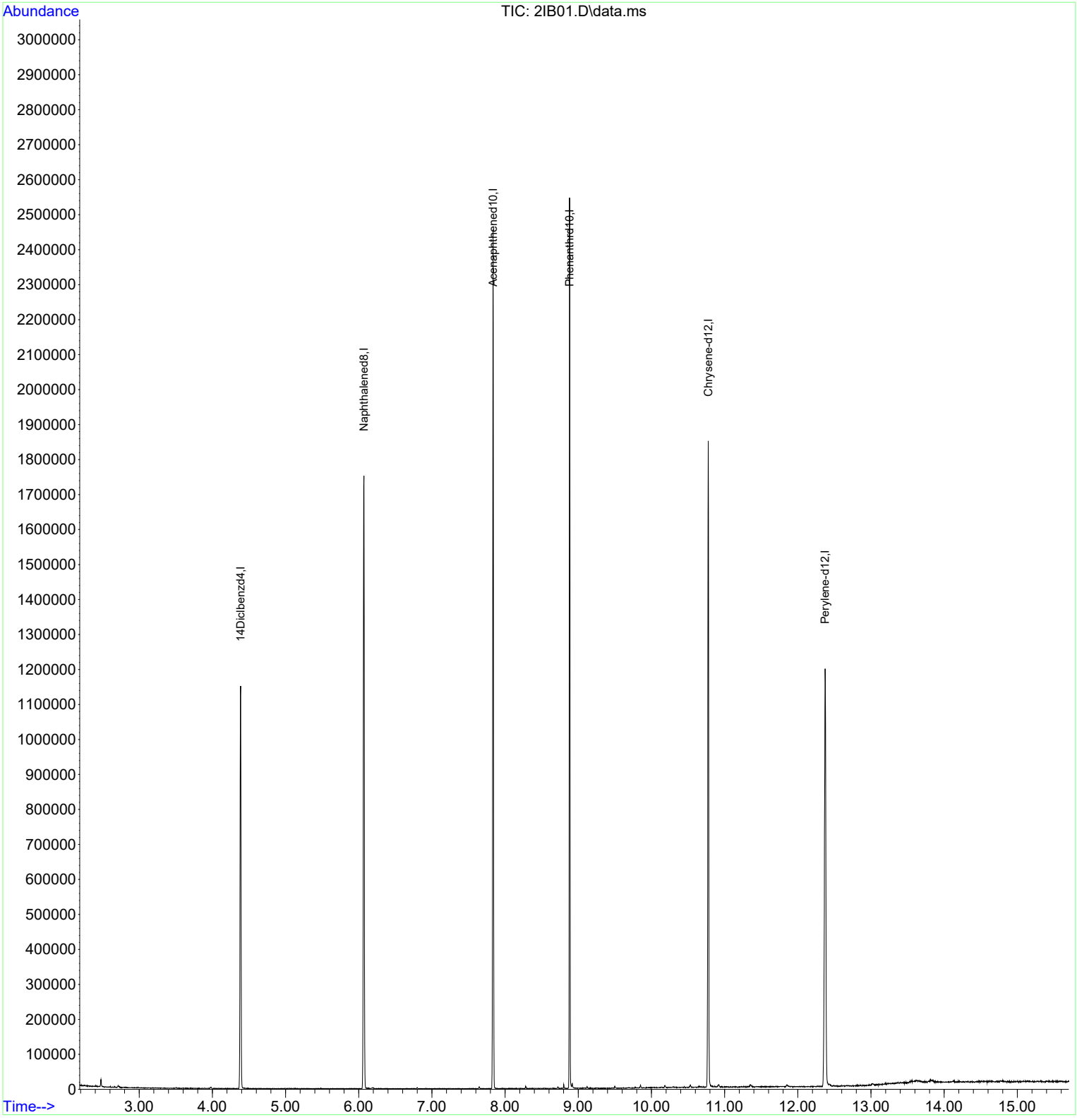
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 171868 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.071 | 136 | 795808 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.836 | 164 | 430499 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.881 | 188 | 608560 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.776 | 240 | 533241 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.373 | 264 | 553632 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 0.000 | 112 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 7) SURRPhenol-d5 | 0.000 | 99 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 22) SURRNitrbenzened5 | 0.000 | 82 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 44) SUR2Flbiphenyl | 0.000 | 172 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 62) SURR246Tribrphenl | 0.000 | 330 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 78) SURRTerphenyl-d14 | 0.000 | 244 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| Target Compounds | | | | | | Qvalue |
| 76) Benzidine | 9.782 | 184 | 665 | Below Cal | | 88 |

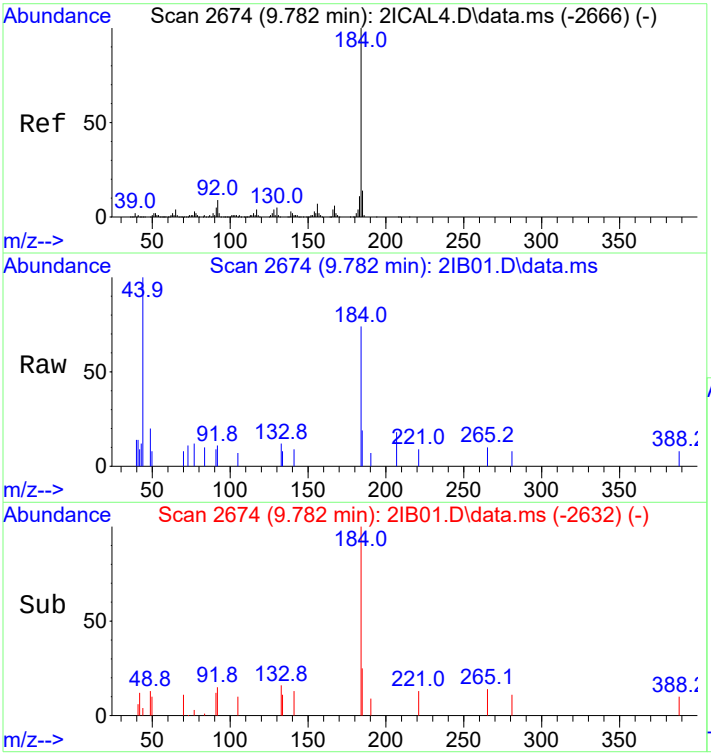
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2IB01.D Vial: 2
Acq On : 7 Apr 2025 10:13 Operator: JJY
Sample : Instrument Blank Inst : SVMS2
Misc : 1000 ul + 10ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:50:28 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

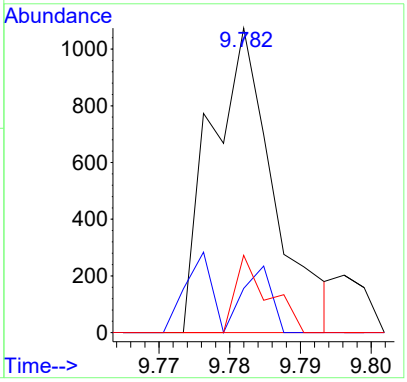





#76
Benzidine
Concen: Below Cal
RT: 9.782 min Scan# 2674
Delta R.T. -0.000 min
Lab File: 2IB01.D
Acq: 7 Apr 2025 10:13

Tgt Ion:184 Resp: 665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 92 | 11.6 | 0.0 | 38.5 |
| 185 | 20.3 | 0.0 | 44.5 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL7.D Vial: 3
Acq On : 7 Apr 2025 10:36 Operator: JJY
Sample : ICAL 50 ug/mL SVMS10297 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:16:11 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:16:02 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.389 | 152 | 175995 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.074 | 136 | 849340 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.841 | 164 | 464237 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.887 | 188 | 674642 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.788 | 240 | 530924 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.385 | 264 | 617109 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.136 | 112 | 548232 | 125.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 125.00% | | | |
| 7) SURRPhenol-d5 | 3.977 | 99 | 660299 | 125.00 | %REC | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 125.00% | | | |
| 22) SURRNitrbenzened5 | 5.082 | 82 | 586565 | 250.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 250.00% | | | |
| 44) SURR2Flbiphenyl | 7.256 | 172 | 1321098 | 250.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 250.00% | | | |
| 62) SURR246Tribrphenl | 8.441 | 330 | 155531 | 125.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 125.00% | | | |
| 78) SURRTerphenyl-d14 | 9.961 | 244 | 1320686 | 250.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 250.00% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.332 | 74 | 359269 | 50.0000 | ug/mL | 97 |
| 3) Pyridine | 2.346 | 79 | 636806 | 50.0000 | ug/mL | 95 |
| 5) Aniline | 4.028 | 93 | 833857 | 50.0000 | ug/mL | 98 |
| 6) bis2Clethletr | 4.096 | 93 | 541621 | 50.0000 | ug/mL | 99 |
| 8) Phenol | 3.994 | 94 | 671695 | 50.0000 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.153 | 128 | 600915 | 50.0000 | ug/mL | 98 |
| 10) 13Diclbenz | 4.324 | 146 | 635046 | 50.0000 | ug/mL | 99 |
| 11) 14Diclbenz | 4.409 | 146 | 641845 | 50.0000 | ug/mL | 99 |
| 12) 12Diclbenz | 4.588 | 146 | 616854 | 50.0000 | ug/mL | 99 |
| 13) Benzyl alcoho | 4.559 | 108 | 398698 | 50.0000 | ug/mL | 96 |
| 14) bis2clispreth | 4.733 | 45 | 1045349 | 50.0000 | ug/mL | 98 |
| 15) 2Methylphenol | 4.693 | 107 | 464371 | 50.0000 | ug/mL | 99 |
| 16) Ntrspyrrol | 4.875 | 100 | 303372 | 50.0000 | ug/mL | 98 |
| 17) Acetophenone | 4.895 | 105 | 824875 | 50.0000 | ug/mL | 98 |
| 18) Hexaclethane | 5.011 | 117 | 252590 | 50.0000 | ug/mL | 98 |
| 19) N-Ntrsdinprop | 4.909 | 70 | 409964 | 50.0000 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.909 | 107 | 583895 | 50.0000 | ug/mL | 92 |
| 23) Nitrobenzene | 5.111 | 77 | 570085 | 50.0000 | ug/mL | 98 |
| 24) Isophorone | 5.477 | 82 | 1215937 | 50.0000 | ug/mL | 98 |
| 25) 2-Nitrophenol | 5.571 | 139 | 370802 | 50.0000 | ug/mL | 98 |
| 26) 24Dimthpheno | 5.668 | 122 | 575190 | 50.0000 | ug/mL | 100 |
| 27) bis2clethoxym | 5.801 | 93 | 728820 | 50.0000 | ug/mL | 97 |
| 28) 24Diclphenol | 5.909 | 162 | 537099 | 50.0000 | ug/mL | 98 |
| 29) 124Triclbenz | 6.011 | 180 | 586499 | 50.0000 | ug/mL | 99 |
| 30) Benzoic acid | 5.881 | 122 | 357169 | 50.0000 | ug/mL | 94 |
| 31) Naphthalene | 6.105 | 128 | 1866181 | 50.0000 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.190 | 127 | 771642 | 50.0000 | ug/mL | 98 |
| 33) 26Diclphenol | 6.193 | 162 | 512209 | 50.0000 | ug/mL | 97 |
| 34) Hexaclprop | 6.216 | 213 | 406426 | 50.0000 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.273 | 225 | 337329 | 50.0000 | ug/mL | 99 |
| 36) 4Cl3methylphe | 6.759 | 107 | 547693 | 50.0000 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.886 | 142 | 1135726 | 50.0000 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.983 | 142 | 1179792 | 50.0000 | ug/mL | 97 |
| 40) Hxclcycpentdi | 7.051 | 237 | 388139 | 50.0000 | ug/mL | 97 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL7.D Vial: 3
Acq On : 7 Apr 2025 10:36 Operator: JJY
Sample : ICAL 50 ug/mL SVMS10297 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:16:11 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:16:02 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

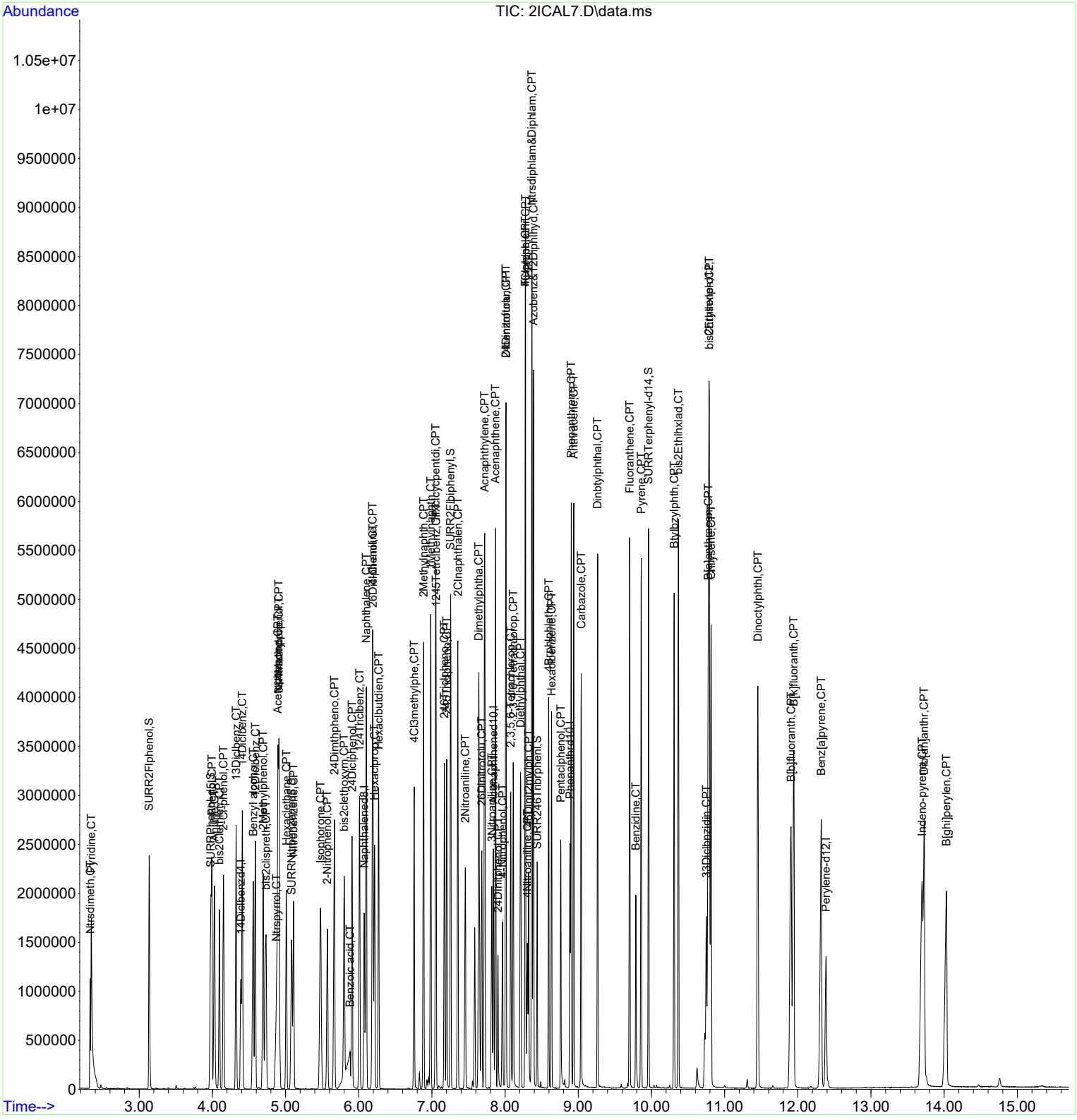
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.057 | 216 | 510457 | 50.0000 | ug/mL | 99 |
| 42) 246Triclpheno | 7.171 | 196 | 368198 | 50.0000 | ug/mL | 99 |
| 43) 245Triclpheno | 7.202 | 196 | 392292 | 50.0000 | ug/mL | 97 |
| 45) 2Clnaphthalen | 7.355 | 162 | 1137295 | 50.0000 | ug/mL | 97 |
| 46) 2Nitroaniline | 7.458 | 65 | 366708 | 50.0000 | ug/mL | 98 |
| 47) Acnaphthylene | 7.719 | 152 | 1784152 | 50.0000 | ug/mL | 98 |
| 48) Dimethylphtha | 7.639 | 163 | 1316747 | 50.0000 | ug/mL | 100 |
| 49) 26Dinitrotolu | 7.682 | 165 | 316567 | 50.0000 | ug/mL | 98 |
| 50) Acenaphthene | 7.870 | 154 | 1077142 | 50.0000 | ug/mL | 98 |
| 51) 3Nitroaniline | 7.818 | 138 | 327263 | 50.0000 | ug/mL | 98 |
| 52) 24Dinitphenol | 7.904 | 184 | 164271 | 50.0000 | ug/mL | 96 |
| 53) Dibenzofuran | 8.012 | 168 | 1492105 | 50.0000 | ug/mL | 94 |
| 54) 24Dinitrotolu | 8.012 | 165 | 411320 | 50.0000 | ug/mL | 87 |
| 55) 4-Nitrophenol | 7.966 | 65 | 231714 | 50.0000 | ug/mL | 96 |
| 56) 2,3,5,6-Tetrachlorop | 8.077 | 232 | 300707 | 50.0000 | ug/mL | 96 |
| 57) 2,3,4,6-Tetrachlorop | 8.111 | 232 | 306448 | 50.0000 | ug/mL | 99 |
| 58) Fluorene | 8.276 | 166 | 1101103 | 50.0000 | ug/mL | 99 |
| 59) 4Clphlphlethr | 8.279 | 204 | 518982 | 50.0000 | ug/mL | 99 |
| 60) Diethylphthal | 8.211 | 149 | 1336233 | 50.0000 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.304 | 138 | 275342 | 50.0000 | ug/mL | 95 |
| 64) 46Dinit2mylph | 8.321 | 198 | 222782 | 50.0000 | ug/mL | 94 |
| 65) Ntrsdiphlam&Diphlam | 8.367 | 169 | 1581579 | 100.0000 | ug/mL | 98 |
| 66) Azobenz&12Diphlhyd | 8.390 | 182 | 577293 | 100.0000 | ug/mL | 89 |
| 67) 4Brphlphlethr | 8.597 | 248 | 305196 | 50.0000 | ug/mL | 98 |
| 68) Hexaclbenzene | 8.637 | 284 | 344098 | 50.0000 | ug/mL | 96 |
| 69) Pentaclphenol | 8.762 | 266 | 190371 | 50.0000 | ug/mL | 100 |
| 70) Phenanthrene | 8.904 | 178 | 1513191 | 50.0000 | ug/mL | 97 |
| 71) Anthracene | 8.938 | 178 | 1548482 | 50.0000 | ug/mL | 97 |
| 72) Carbazole | 9.040 | 167 | 1246040 | 50.0000 | ug/mL | 98 |
| 73) Dinbtylphthal | 9.265 | 149 | 1907890 | 50.0000 | ug/mL | 97 |
| 74) Fluoranthene | 9.702 | 202 | 1626551 | 50.0000 | ug/mL | 97 |
| 76) Benzidine | 9.788 | 184 | 528442 | 50.0000 | ug/mL | 99 |
| 77) Pyrene | 9.861 | 202 | 1691949 | 50.0000 | ug/mL | 97 |
| 79) Btylbzylphth | 10.310 | 149 | 912049 | 50.0000 | ug/mL | 98 |
| 80) bis2Ethlhxlad | 10.367 | 129 | 838060 | 50.0000 | ug/mL | 98 |
| 81) 33Diclbnzidin | 10.751 | 252 | 339663 | 50.0000 | ug/mL | 98 |
| 82) B[a]anthracen | 10.776 | 228 | 1632188 | 50.0000 | ug/mL | 100 |
| 83) Chrysene | 10.816 | 228 | 1528058 | 50.0000 | ug/mL | 96 |
| 84) bis2Ethlhxlph | 10.791 | 149 | 1300946 | 50.0000 | ug/mL | 99 |
| 85) Dinoctylphthl | 11.456 | 149 | 2284736 | 50.0000 | ug/mL | 99 |
| 87) B[b]fluoranth | 11.907 | 252 | 1629671 | 50.0000 | ug/mL | 97 |
| 88) B[k]fluoranth | 11.944 | 252 | 1606342 | 50.0000 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.322 | 252 | 1535560 | 50.0000 | ug/mL | 99 |
| 90) Indeno-pyrene | 13.697 | 276 | 1751583 | 50.0000 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.726 | 278 | 1440313 | 50.0000 | ug/mL | 97 |
| 92) B[ghi]perylen | 14.030 | 276 | 1368651 | 50.0000 | ug/mL | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL7.D Vial: 3
Acq On : 7 Apr 2025 10:36 Operator: JJY
Sample : ICAL 50 ug/mL SVMS10297 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:16:11 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:16:02 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL6.D Vial: 4
Acq On : 7 Apr 2025 10:59 Operator: JJY
Sample : ICAL 40 ug/mL SVMS10296 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:17:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:16:02 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.389 | 152 | 182283 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.074 | 136 | 867423 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.839 | 164 | 491288 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 705115 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.788 | 240 | 571481 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.385 | 264 | 642040 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.136 | 112 | 442770 | 97.47 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 97.47% | | | |
| 7) SURRPhenol-d5 | 3.974 | 99 | 534123 | 97.63 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 97.63% | | | |
| 22) SURRNitrbenzened5 | 5.080 | 82 | 478004 | 199.48 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 199.48% | | | |
| 44) SURR2Flbiphenyl | 7.256 | 172 | 1109675 | 198.43 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 198.43% | | | |
| 62) SURR246Tribrphenl | 8.438 | 330 | 128437 | 97.54 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 97.54% | | | |
| 78) SURRTerphenyl-d14 | 9.961 | 244 | 1130859 | 198.87 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 198.87% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.329 | 74 | 289940 | 38.9594 | ug/mL | 98 |
| 3) Pyridine | 2.346 | 79 | 506756 | 38.4163 | ug/mL | 97 |
| 5) Aniline | 4.025 | 93 | 680563 | 39.4004 | ug/mL | 99 |
| 6) bis2Clethletr | 4.094 | 93 | 441903 | 39.3872 | ug/mL | 98 |
| 8) Phenol | 3.988 | 94 | 542898 | 39.0185 | ug/mL | 97 |
| 9) 2-Cl-phenol | 4.150 | 128 | 490258 | 39.3854 | ug/mL | 99 |
| 10) 13Diclbenz | 4.324 | 146 | 522580 | 39.7257 | ug/mL | 98 |
| 11) 14Diclbenz | 4.409 | 146 | 526670 | 39.6125 | ug/mL | 99 |
| 12) 12Diclbenz | 4.585 | 146 | 500354 | 39.1579 | ug/mL | 98 |
| 13) Benzyl alcoho | 4.557 | 108 | 322022 | 38.9911 | ug/mL | 96 |
| 14) bis2clispreth | 4.733 | 45 | 849560 | 39.2335 | ug/mL | 98 |
| 15) 2Methylphenol | 4.690 | 107 | 380285 | 39.5338 | ug/mL | 97 |
| 16) Ntrspyrrol | 4.869 | 100 | 246489 | 39.2235 | ug/mL | 97 |
| 17) Acetophenone | 4.889 | 105 | 672848 | 39.3779 | ug/mL | 97 |
| 18) Hexaclethane | 5.008 | 117 | 205763 | 39.3256 | ug/mL | 98 |
| 19) N-Ntrsdinprop | 4.906 | 70 | 327029 | 38.5092 | ug/mL | 96 |
| 20) 3&4Methylphenol | 4.903 | 107 | 480033 | 39.6881 | ug/mL | 93 |
| 23) Nitrobenzene | 5.108 | 77 | 461401 | 39.6241 | ug/mL | 99 |
| 24) Isophorone | 5.474 | 82 | 984024 | 39.6201 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.568 | 139 | 304669 | 40.2260 | ug/mL | 99 |
| 26) 24Dimthpheno | 5.665 | 122 | 469079 | 39.9260 | ug/mL | 99 |
| 27) bis2clethoxym | 5.798 | 93 | 598904 | 40.2307 | ug/mL | 98 |
| 28) 24Diclphenol | 5.906 | 162 | 440800 | 40.1798 | ug/mL | 97 |
| 29) 124Triclbenz | 6.009 | 180 | 480334 | 40.0956 | ug/mL | 97 |
| 30) Benzoic acid | 5.864 | 122 | 286857 | 39.3199 | ug/mL | 99 |
| 31) Naphthalene | 6.102 | 128 | 1541272 | 40.4340 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.188 | 127 | 627253 | 39.7967 | ug/mL | 97 |
| 33) 26Diclphenol | 6.191 | 162 | 423157 | 40.4459 | ug/mL | 97 |
| 34) Hexaclprop | 6.216 | 213 | 336570 | 40.5429 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.270 | 225 | 282584 | 41.0123 | ug/mL | 99 |
| 36) 4Cl3methylphe | 6.756 | 107 | 448634 | 40.1029 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.884 | 142 | 947622 | 40.8491 | ug/mL | 98 |
| 38) 1Methylnaphth | 6.983 | 142 | 980469 | 40.6864 | ug/mL | 98 |
| 40) Hxclcycpentdi | 7.049 | 237 | 322520 | 39.2593 | ug/mL | 97 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL6.D Vial: 4
Acq On : 7 Apr 2025 10:59 Operator: JJY
Sample : ICAL 40 ug/mL SVMS10296 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:17:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:16:02 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

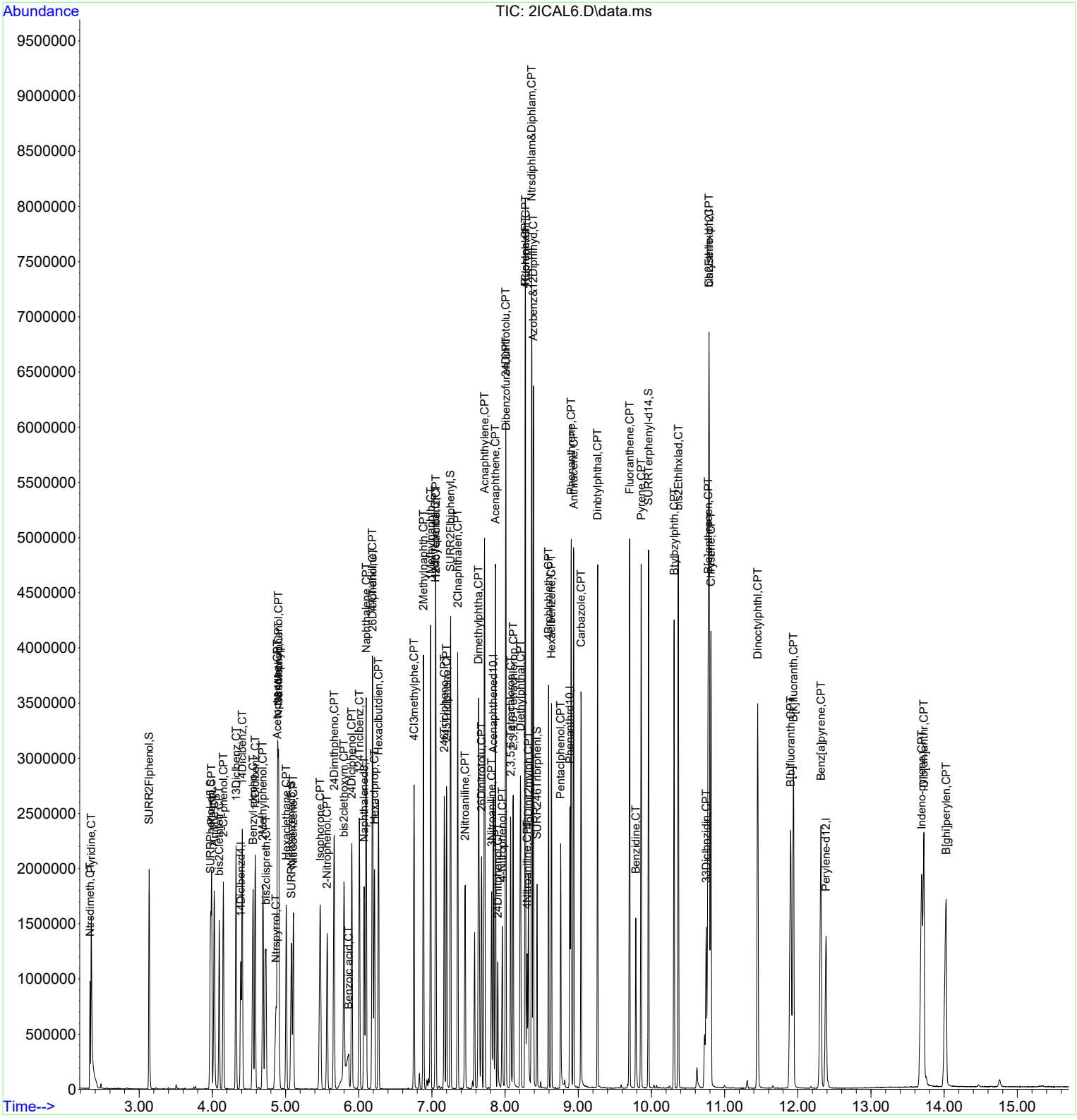
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.054 | 216 | 423822 | 39.2282 ug/mL | 99 |
| 42) 246Triclpheno | 7.171 | 196 | 306050 | 39.2721 ug/mL | 98 |
| 43) 245Triclpheno | 7.199 | 196 | 330049 | 39.7505 ug/mL | 97 |
| 45) 2Clnaphthalen | 7.353 | 162 | 953386 | 39.6068 ug/mL | 97 |
| 46) 2Nitroaniline | 7.455 | 65 | 303920 | 39.1573 ug/mL | 98 |
| 47) Acnaphthylene | 7.719 | 152 | 1495095 | 39.5923 ug/mL | 99 |
| 48) Dimethylphtha | 7.637 | 163 | 1107547 | 39.7405 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.679 | 165 | 266117 | 39.7174 ug/mL | 97 |
| 50) Acenaphthene | 7.870 | 154 | 903211 | 39.6178 ug/mL | 98 |
| 51) 3Nitroaniline | 7.816 | 138 | 270418 | 39.0402 ug/mL | 99 |
| 52) 24Dinitphenol | 7.901 | 184 | 139151 | 40.0220 ug/mL | 99 |
| 53) Dibenzofuran | 8.012 | 168 | 1268011 | 40.1511 ug/mL | 96 |
| 54) 24Dinitrotolu | 8.009 | 165 | 348287 | 40.0065 ug/mL | 90 |
| 55) 4-Nitrophenol | 7.961 | 65 | 195615 | 39.8863 ug/mL | 99 |
| 56) 2,3,5,6-Tetrachlorop | 8.077 | 232 | 245824 | 38.6237 ug/mL | 99 |
| 57) 2,3,4,6-Tetrachlorop | 8.111 | 232 | 254122 | 39.1795 ug/mL | 98 |
| 58) Fluorene | 8.276 | 166 | 942337 | 40.4345 ug/mL | 99 |
| 59) 4Clphlphlethr | 8.279 | 204 | 438894 | 39.9559 ug/mL | 97 |
| 60) Diethylphthal | 8.211 | 149 | 1121328 | 39.6483 ug/mL | 99 |
| 61) 4Nitroaniline | 8.302 | 138 | 229234 | 39.3351 ug/mL | 91 |
| 64) 46Dinit2mylph | 8.319 | 198 | 183260 | 39.3524 ug/mL | 98 |
| 65) Ntrsdiphlam&Diphlam | 8.364 | 169 | 1331917 | 80.5749 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.387 | 182 | 488662 | 80.9889 ug/mL | 95 |
| 67) 4Brphlphlethr | 8.594 | 248 | 257037 | 40.2903 ug/mL | 94 |
| 68) Hexaclbenzene | 8.634 | 284 | 286462 | 39.8261 ug/mL | 99 |
| 69) Pentaclphenol | 8.759 | 266 | 151115 | 37.9743 ug/mL | 98 |
| 70) Phenanthrene | 8.904 | 178 | 1290207 | 40.7896 ug/mL | 97 |
| 71) Anthracene | 8.938 | 178 | 1329972 | 41.0885 ug/mL | 98 |
| 72) Carbazole | 9.038 | 167 | 1058101 | 40.6236 ug/mL | 98 |
| 73) Dinbtylphthal | 9.265 | 149 | 1629910 | 40.8690 ug/mL | 98 |
| 74) Fluoranthene | 9.703 | 202 | 1390383 | 40.8931 ug/mL | 98 |
| 76) Benzidine | 9.788 | 184 | 426856 | 37.5219 ug/mL | 99 |
| 77) Pyrene | 9.862 | 202 | 1437957 | 39.4784 ug/mL | 97 |
| 79) Btylbzylphth | 10.311 | 149 | 768909 | 39.1613 ug/mL | 99 |
| 80) bis2Ethlhxlad | 10.367 | 129 | 709741 | 39.3392 ug/mL | 98 |
| 81) 33Diclbnzidin | 10.748 | 252 | 281737 | 38.5298 ug/mL | 97 |
| 82) B[a]anthracen | 10.777 | 228 | 1370914 | 39.0158 ug/mL | 98 |
| 83) Chrysene | 10.814 | 228 | 1293630 | 39.3252 ug/mL | 98 |
| 84) bis2Ethlhxlph | 10.788 | 149 | 1109584 | 39.6188 ug/mL | 99 |
| 85) Dinoctylphthl | 11.453 | 149 | 1924868 | 39.1350 ug/mL | 100 |
| 87) B[b]fluoranth | 11.902 | 252 | 1337699 | 39.4483 ug/mL | 98 |
| 88) B[k]fluoranth | 11.942 | 252 | 1342205 | 40.1560 ug/mL | 99 |
| 89) Benz[a]pyrene | 12.317 | 252 | 1277182 | 39.9720 ug/mL | 100 |
| 90) Indeno-pyrene | 13.692 | 276 | 1447257 | 39.7086 ug/mL | 100 |
| 91) Dib[ah]anthr | 13.723 | 278 | 1193800 | 39.8331 ug/mL | 98 |
| 92) B[ghi]perylen | 14.027 | 276 | 1141401 | 40.0789 ug/mL | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL6.D Vial: 4
Acq On : 7 Apr 2025 10:59 Operator: JJY
Sample : ICAL 40 ug/mL SVMS10296 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:17:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:16:02 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL5.D Vial: 5
Acq On : 7 Apr 2025 11:22 Operator: JJY
Sample : ICAL 30 ug/mL SVMS10295 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:19:07 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:18:53 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 175160 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.074 | 136 | 850911 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.841 | 164 | 479840 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 684937 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.785 | 240 | 570113 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.382 | 264 | 610521 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.136 | 112 | 335853 | 77.93 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 77.93% | | | |
| 7) SURRPhenol-d5 | 3.971 | 99 | 405484 | 78.05 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 78.05% | | | |
| 22) SURRNitrbenzened5 | 5.077 | 82 | 360856 | 153.72 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 153.72% | | | |
| 44) SURR2Flbiphenyl | 7.256 | 172 | 850686 | 156.36 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 156.36% | | | |
| 62) SURR246Tribrphenl | 8.438 | 330 | 97494 | 76.75 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 76.75% | | | |
| 78) SURRTerphenyl-d14 | 9.958 | 244 | 853098 | 150.81 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 150.81% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.329 | 74 | 214390 | 30.3743 | ug/mL | 98 |
| 3) Pyridine | 2.346 | 79 | 379622 | 30.5536 | ug/mL | 98 |
| 5) Aniline | 4.025 | 93 | 515430 | 31.2882 | ug/mL | 99 |
| 6) bis2Clethletr | 4.091 | 93 | 334890 | 31.3027 | ug/mL | 98 |
| 8) Phenol | 3.986 | 94 | 412134 | 31.2078 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.148 | 128 | 371082 | 31.2638 | ug/mL | 98 |
| 10) 13Diclbenz | 4.321 | 146 | 397863 | 31.5831 | ug/mL | 98 |
| 11) 14Diclbenz | 4.406 | 146 | 400138 | 31.4719 | ug/mL | 99 |
| 12) 12Diclbenz | 4.585 | 146 | 380434 | 31.3133 | ug/mL | 99 |
| 13) Benzyl alcoho | 4.551 | 108 | 245101 | 31.2787 | ug/mL | 98 |
| 14) bis2clispreth | 4.727 | 45 | 643014 | 31.2015 | ug/mL | 97 |
| 15) 2Methylphenol | 4.687 | 107 | 286715 | 31.2003 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.861 | 100 | 184146 | 30.7934 | ug/mL | 94 |
| 17) Acetophenone | 4.886 | 105 | 512679 | 31.4690 | ug/mL | 98 |
| 18) Hexaclethane | 5.009 | 117 | 155476 | 31.1860 | ug/mL | 98 |
| 19) N-Ntrsdinprop | 4.898 | 70 | 249324 | 31.1332 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.898 | 107 | 366909 | 31.6924 | ug/mL | 96 |
| 23) Nitrobenzene | 5.102 | 77 | 349192 | 30.7141 | ug/mL | 96 |
| 24) Isophorone | 5.469 | 82 | 741854 | 30.5944 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.568 | 139 | 231352 | 31.0508 | ug/mL | 99 |
| 26) 24Dimthpheno | 5.662 | 122 | 355878 | 30.9072 | ug/mL | 99 |
| 27) bis2clethoxym | 5.798 | 93 | 457054 | 31.2079 | ug/mL | 98 |
| 28) 24Diclphenol | 5.904 | 162 | 329932 | 30.5888 | ug/mL | 97 |
| 29) 124Triclbenz | 6.009 | 180 | 364567 | 30.9855 | ug/mL | 98 |
| 30) Benzoic acid | 5.835 | 122 | 203913 | 28.7373 | ug/mL | 95 |
| 31) Naphthalene | 6.100 | 128 | 1182547 | 31.4545 | ug/mL | 100 |
| 32) 4-Cl-aniline | 6.185 | 127 | 466480 | 30.2475 | ug/mL | 98 |
| 33) 26Diclphenol | 6.191 | 162 | 322044 | 31.2048 | ug/mL | 96 |
| 34) Hexaclprop | 6.216 | 213 | 253524 | 30.9220 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.270 | 225 | 215875 | 31.5395 | ug/mL | 98 |
| 36) 4Cl3methylphe | 6.756 | 107 | 338729 | 30.8265 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.884 | 142 | 726360 | 31.5835 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.983 | 142 | 750607 | 31.4821 | ug/mL | 96 |
| 40) Hxclcycpentdi | 7.052 | 237 | 247098 | 31.0838 | ug/mL | 96 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL5.D Vial: 5
Acq On : 7 Apr 2025 11:22 Operator: JJY
Sample : ICAL 30 ug/mL SVMS10295 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:19:07 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:18:53 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

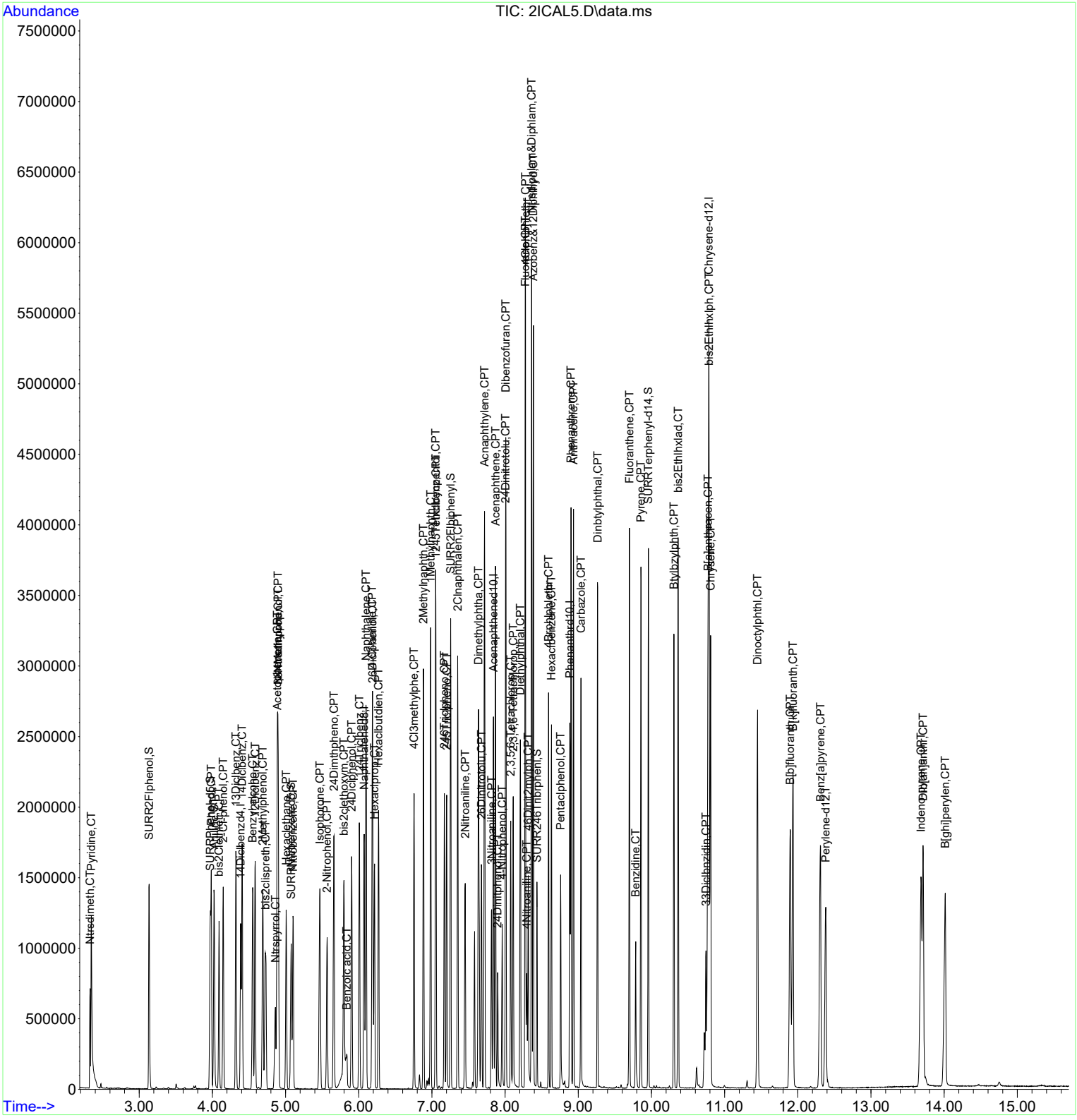
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.054 | 216 | 324355 | 31.0374 | ug/mL | 100 |
| 42) 246Triclpheno | 7.171 | 196 | 229885 | 30.4798 | ug/mL | 96 |
| 43) 245Triclpheno | 7.202 | 196 | 246390 | 30.4778 | ug/mL | 98 |
| 45) 2Clnaphthalen | 7.353 | 162 | 726301 | 31.0454 | ug/mL | 98 |
| 46) 2Nitroaniline | 7.455 | 65 | 223950 | 29.8568 | ug/mL | 97 |
| 47) Acnaphthylene | 7.719 | 152 | 1156047 | 31.5047 | ug/mL | 99 |
| 48) Dimethylphtha | 7.637 | 163 | 849791 | 31.3209 | ug/mL | 99 |
| 49) 26Dinitrotolu | 7.677 | 165 | 196159 | 30.0810 | ug/mL | 96 |
| 50) Acenaphthene | 7.870 | 154 | 691028 | 31.1829 | ug/mL | 96 |
| 51) 3Nitroaniline | 7.816 | 138 | 194840 | 29.1499 | ug/mL | 99 |
| 52) 24Dinitphenol | 7.898 | 184 | 93366 | 27.4866 | ug/mL | 98 |
| 53) Dibenzofuran | 8.009 | 168 | 972412 | 31.4662 | ug/mL | 96 |
| 54) 24Dinitrotolu | 8.006 | 165 | 263539 | 30.9915 | ug/mL | 95 |
| 55) 4-Nitrophenol | 7.961 | 65 | 140918 | 29.4609 | ug/mL | 99 |
| 56) 2,3,5,6-Tetrachlorop | 8.077 | 232 | 183648 | 30.0602 | ug/mL | 97 |
| 57) 2,3,4,6-Tetrachlorop | 8.111 | 232 | 189714 | 30.2575 | ug/mL | 96 |
| 58) Fluorene | 8.276 | 166 | 731335 | 31.9558 | ug/mL | 98 |
| 59) 4Clphlphlethr | 8.279 | 204 | 340316 | 31.7382 | ug/mL | 98 |
| 60) Diethylphthal | 8.208 | 149 | 847996 | 30.8346 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.296 | 138 | 172222 | 30.5108 | ug/mL | 96 |
| 64) 46Dinit2mylph | 8.316 | 198 | 134532 | 29.9825 | ug/mL | 99 |
| 65) Ntrsdiphlam&Diphlam | 8.364 | 169 | 1029459 | 63.8827 | ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.387 | 182 | 373115 | 63.2693 | ug/mL | 97 |
| 67) 4Brphlphlethr | 8.594 | 248 | 191471 | 30.7853 | ug/mL | 95 |
| 68) Hexaclbenzene | 8.634 | 284 | 216179 | 31.0077 | ug/mL | 98 |
| 69) Pentaclphenol | 8.759 | 266 | 109284 | 29.0059 | ug/mL | 98 |
| 70) Phenanthrene | 8.901 | 178 | 990618 | 31.9257 | ug/mL | 98 |
| 71) Anthracene | 8.935 | 178 | 1015799 | 31.8732 | ug/mL | 99 |
| 72) Carbazole | 9.038 | 167 | 803801 | 31.5237 | ug/mL | 99 |
| 73) Dinbtylphthal | 9.265 | 149 | 1265002 | 32.3027 | ug/mL | 99 |
| 74) Fluoranthene | 9.700 | 202 | 1061310 | 31.7794 | ug/mL | 98 |
| 76) Benzidine | 9.785 | 184 | 281742 | 25.6190 | ug/mL | 100 |
| 77) Pyrene | 9.856 | 202 | 1106655 | 30.6554 | ug/mL | 99 |
| 79) Btylbzylphth | 10.308 | 149 | 585698 | 30.2186 | ug/mL | 99 |
| 80) bis2Ethlhxlad | 10.365 | 129 | 535470 | 29.9988 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.745 | 252 | 189774 | 26.5024 | ug/mL | 96 |
| 82) B[a]anthracen | 10.774 | 228 | 1047710 | 30.2614 | ug/mL | 99 |
| 83) Chrysene | 10.808 | 228 | 977694 | 30.0458 | ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.788 | 149 | 853612 | 30.6985 | ug/mL | 99 |
| 85) Dinoctylphthl | 11.450 | 149 | 1443577 | 29.7418 | ug/mL | 99 |
| 87) B[b]fluoranth | 11.896 | 252 | 998269 | 31.1734 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.936 | 252 | 992272 | 31.1586 | ug/mL | 98 |
| 89) Benz[a]pyrene | 12.311 | 252 | 925893 | 30.4844 | ug/mL | 99 |
| 90) Indeno-pyrene | 13.683 | 276 | 1055681 | 30.5716 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.712 | 278 | 855484 | 30.0811 | ug/mL | 98 |
| 92) B[ghi]perylen | 14.016 | 276 | 807829 | 29.8010 | ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL5.D Vial: 5
Acq On : 7 Apr 2025 11:22 Operator: JJY
Sample : ICAL 30 ug/mL SVMS10295 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:19:07 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:18:53 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL4.D Vial: 6
Acq On : 7 Apr 2025 11:45 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:20:30 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:20:16 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 175406 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.074 | 136 | 842148 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.838 | 164 | 472974 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 670576 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.782 | 240 | 567464 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.379 | 264 | 597589 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.133 | 112 | 219376 | 50.18 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.18% | | | |
| 7) SURRPhenol-d5 | 3.966 | 99 | 261490 | 49.59 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 49.59% | | | |
| 22) SURRNitrbenzened5 | 5.074 | 82 | 230369 | 98.34 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 98.34% | | | |
| 44) SURR2Flbiphenyl | 7.256 | 172 | 563077 | 103.54 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 103.54% | | | |
| 62) SURR246Tribrphenl | 8.435 | 330 | 62282 | 49.36 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 49.36% | | | |
| 78) SURRTerphenyl-d14 | 9.958 | 244 | 564537 | 100.08 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 100.08% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.326 | 74 | 140074 | 19.7355 | ug/mL | 100 |
| 3) Pyridine | 2.346 | 79 | 246333 | 19.6771 | ug/mL | 100 |
| 5) Aniline | 4.022 | 93 | 331812 | 19.8299 | ug/mL | 100 |
| 6) bis2Clethletr | 4.088 | 93 | 220669 | 20.3035 | ug/mL | 100 |
| 8) Phenol | 3.983 | 94 | 267391 | 19.9514 | ug/mL | 100 |
| 9) 2-Cl-phenol | 4.147 | 128 | 237435 | 19.6993 | ug/mL | 100 |
| 10) 13Diclbenz | 4.321 | 146 | 258516 | 20.1385 | ug/mL | 100 |
| 11) 14Diclbenz | 4.406 | 146 | 259988 | 20.0915 | ug/mL | 100 |
| 12) 12Diclbenz | 4.582 | 146 | 246674 | 19.9835 | ug/mL | 100 |
| 13) Benzyl alcoho | 4.548 | 108 | 159046 | 19.9843 | ug/mL | 100 |
| 14) bis2clispreth | 4.721 | 45 | 416295 | 19.9062 | ug/mL | 100 |
| 15) 2Methylphenol | 4.684 | 107 | 187039 | 20.0575 | ug/mL | 100 |
| 16) Ntrspyrrol | 4.852 | 100 | 119931 | 19.8521 | ug/mL | 100 |
| 17) Acetophenone | 4.880 | 105 | 332552 | 20.0565 | ug/mL | 100 |
| 18) Hexaclethane | 5.008 | 117 | 99335 | 19.6383 | ug/mL | 100 |
| 19) N-Ntrsdinprop | 4.895 | 70 | 159458 | 19.6364 | ug/mL | 100 |
| 20) 3&4Methylphenol | 4.892 | 107 | 242634 | 20.5423 | ug/mL | 100 |
| 23) Nitrobenzene | 5.099 | 77 | 224631 | 19.8064 | ug/mL | 100 |
| 24) Isophorone | 5.463 | 82 | 486034 | 20.1200 | ug/mL | 100 |
| 25) 2-Nitrophenol | 5.565 | 139 | 158030 | 21.1833 | ug/mL | 100 |
| 26) 24Dimthpheno | 5.659 | 122 | 232597 | 20.2070 | ug/mL | 100 |
| 27) bis2clethoxym | 5.795 | 93 | 295000 | 20.0828 | ug/mL | 100 |
| 28) 24Diclphenol | 5.901 | 162 | 217069 | 20.2022 | ug/mL | 100 |
| 29) 124Triclbenz | 6.008 | 180 | 235908 | 20.0396 | ug/mL | 100 |
| 30) Benzoic acid | 5.807 | 122 | 117363 | 16.9498 | ug/mL | 100 |
| 31) Naphthalene | 6.099 | 128 | 777956 | 20.5756 | ug/mL | 100 |
| 32) 4-Cl-aniline | 6.182 | 127 | 288619 | 18.8575 | ug/mL | 100 |
| 33) 26Diclphenol | 6.188 | 162 | 210602 | 20.3465 | ug/mL | 100 |
| 34) Hexaclprop | 6.213 | 213 | 161723 | 19.7283 | ug/mL | 100 |
| 35) Hexaclbutdien | 6.270 | 225 | 139610 | 20.2628 | ug/mL | 100 |
| 36) 4Cl3methylphe | 6.753 | 107 | 220156 | 20.0599 | ug/mL | 100 |
| 37) 2Methylnaphth | 6.884 | 142 | 478235 | 20.6477 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.980 | 142 | 498582 | 20.7869 | ug/mL | 100 |
| 40) Hxclcycpentdi | 7.048 | 237 | 160428 | 20.2305 | ug/mL | 100 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL4.D Vial: 6
Acq On : 7 Apr 2025 11:45 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:20:30 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:20:16 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

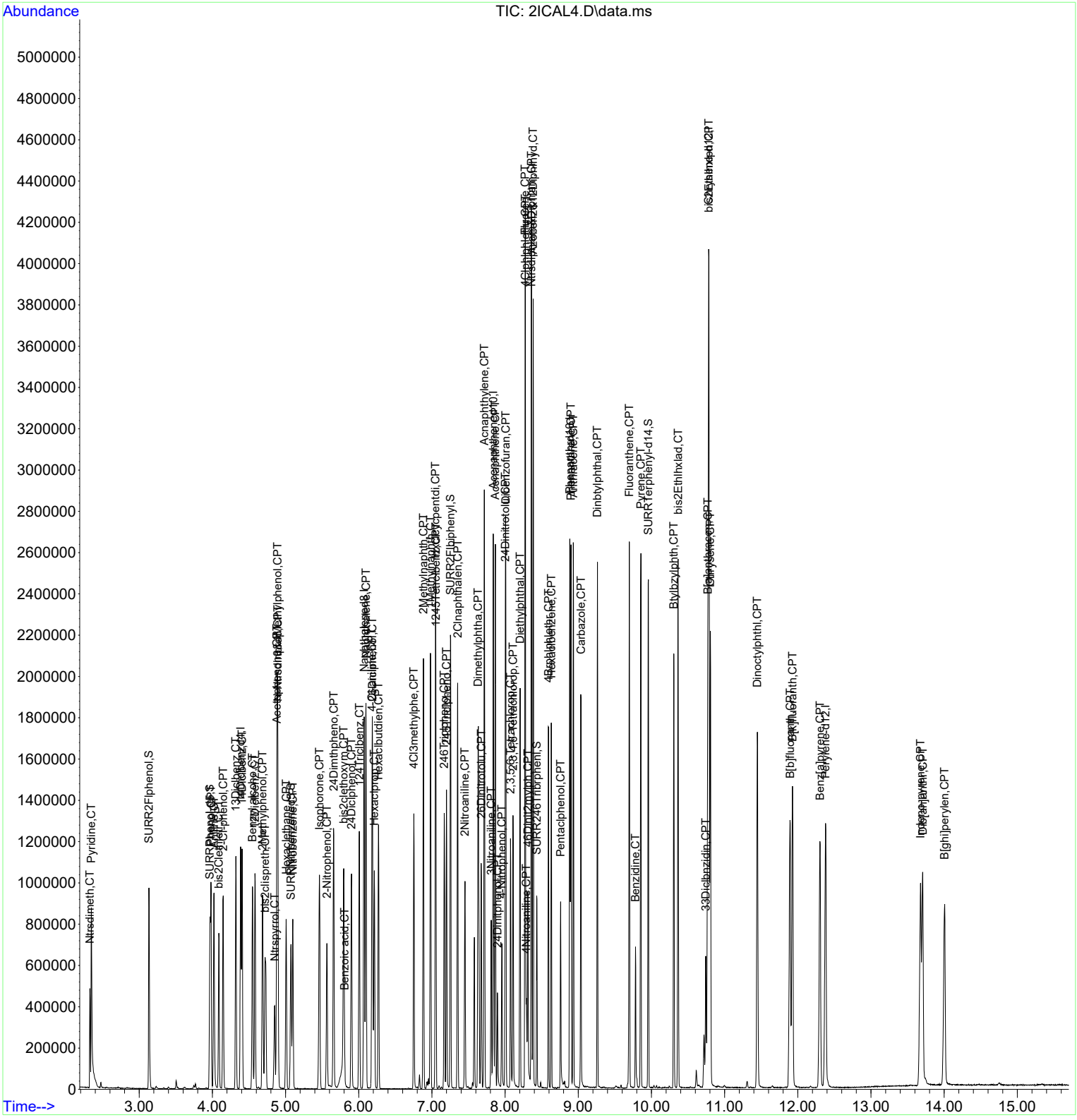
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.054 | 216 | 215029 | 20.6369 | ug/mL | 100 |
| 42) 246Triclpheno | 7.168 | 196 | 149031 | 19.9401 | ug/mL | 100 |
| 43) 245Triclpheno | 7.199 | 196 | 157813 | 19.6998 | ug/mL | 100 |
| 45) 2Clnaphthalen | 7.352 | 162 | 479889 | 20.5714 | ug/mL | 100 |
| 46) 2Nitroaniline | 7.452 | 65 | 143102 | 19.3860 | ug/mL | 100 |
| 47) Acnaphthylene | 7.716 | 152 | 776210 | 21.1075 | ug/mL | 100 |
| 48) Dimethylphtha | 7.631 | 163 | 564481 | 20.8019 | ug/mL | 100 |
| 49) 26Dinitrotolu | 7.674 | 165 | 128753 | 20.0129 | ug/mL | 100 |
| 50) Acenaphthene | 7.867 | 154 | 456934 | 20.6473 | ug/mL | 100 |
| 51) 3Nitroaniline | 7.810 | 138 | 119172 | 18.2605 | ug/mL | 100 |
| 52) 24Dinitphenol | 7.895 | 184 | 52750 | 16.2075 | ug/mL | 100 |
| 53) Dibenzofuran | 8.009 | 168 | 658860 | 21.2828 | ug/mL | 100 |
| 54) 24Dinitrotolu | 8.003 | 165 | 170214 | 20.0860 | ug/mL | 100 |
| 55) 4-Nitrophenol | 7.955 | 65 | 86890 | 18.5403 | ug/mL | 100 |
| 56) 2,3,5,6-Tetrachlorop | 8.074 | 232 | 116263 | 19.2937 | ug/mL | 100 |
| 57) 2,3,4,6-Tetrachlorop | 8.108 | 232 | 122711 | 19.7986 | ug/mL | 100 |
| 58) Fluorene | 8.273 | 166 | 495956 | 21.5179 | ug/mL | 100 |
| 59) 4Clphlphlethr | 8.276 | 204 | 229809 | 21.3314 | ug/mL | 100 |
| 60) Diethylphthal | 8.205 | 149 | 551648 | 20.1631 | ug/mL | 100 |
| 61) 4Nitroaniline | 8.290 | 138 | 107273 | 19.1715 | ug/mL | 100 |
| 64) 46Dinit2mylph | 8.310 | 198 | 81246 | 18.4983 | ug/mL | 100 |
| 65) Ntrsdiphlam&Diphlam | 8.358 | 169 | 696409 | 43.2089 | ug/mL | 100 |
| 66) Azobenz&12Diphlhyd | 8.384 | 182 | 252547 | 42.9614 | ug/mL | 100 |
| 67) 4Brphlphlethr | 8.594 | 248 | 127406 | 20.7425 | ug/mL | 100 |
| 68) Hexaclbenzene | 8.631 | 284 | 141013 | 20.4306 | ug/mL | 100 |
| 69) Pentaclphenol | 8.759 | 266 | 65640 | 17.9939 | ug/mL | 100 |
| 70) Phenanthrene | 8.901 | 178 | 665360 | 21.4437 | ug/mL | 100 |
| 71) Anthracene | 8.932 | 178 | 685547 | 21.5234 | ug/mL | 100 |
| 72) Carbazole | 9.037 | 167 | 539631 | 21.2568 | ug/mL | 100 |
| 73) Dinbtylphthal | 9.262 | 149 | 842902 | 21.4366 | ug/mL | 100 |
| 74) Fluoranthene | 9.697 | 202 | 717906 | 21.5313 | ug/mL | 100 |
| 76) Benzidine | 9.782 | 184 | 177884 | 17.0821 | ug/mL | 100 |
| 77) Pyrene | 9.856 | 202 | 740698 | 20.4648 | ug/mL | 100 |
| 79) Btylbzylphth | 10.305 | 149 | 376402 | 19.4635 | ug/mL | 100 |
| 80) bis2Ethlhxlad | 10.364 | 129 | 354897 | 19.9756 | ug/mL | 100 |
| 81) 33Diclbnzidin | 10.742 | 252 | 115933 | 16.9236 | ug/mL | 100 |
| 82) B[a]anthracen | 10.771 | 228 | 686672 | 19.8683 | ug/mL | 100 |
| 83) Chrysene | 10.805 | 228 | 647102 | 19.9689 | ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.785 | 149 | 568340 | 20.3765 | ug/mL | 100 |
| 85) Dinoctylphthl | 11.447 | 149 | 937466 | 19.4604 | ug/mL | 100 |
| 87) B[b]fluoranth | 11.896 | 252 | 659221 | 20.7606 | ug/mL | 100 |
| 88) B[k]fluoranth | 11.927 | 252 | 653647 | 20.7030 | ug/mL | 100 |
| 89) Benz[a]pyrene | 12.305 | 252 | 601900 | 20.1376 | ug/mL | 100 |
| 90) Indeno-pyrene | 13.678 | 276 | 648560 | 19.0671 | ug/mL | 100 |
| 91) Dib[ah]anthr | 13.709 | 278 | 537555 | 19.2935 | ug/mL | 100 |
| 92) B[ghi]perylen | 14.007 | 276 | 502085 | 18.9648 | ug/mL | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL4.D Vial: 6
Acq On : 7 Apr 2025 11:45 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:20:30 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:20:16 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL3.D Vial: 7
Acq On : 7 Apr 2025 12:08 Operator: JJY
Sample : ICAL 10 ug/mL SVMS10293 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:27:56 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:21:41 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 179136 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.071 | 136 | 855342 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.836 | 164 | 474206 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 666402 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.782 | 240 | 586036 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.382 | 264 | 614998 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.133 | 112 | 106713 | 23.88 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 23.88% | | | |
| 7) SURRPhenol-d5 | 3.963 | 99 | 129111 | 24.03 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 24.03% | | | |
| 22) SURRNitrbenzened5 | 5.068 | 82 | 111103 | 46.89 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 46.89% | | | |
| 44) SURR2Flbiphenyl | 7.250 | 172 | 278022 | 50.54 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.54% | | | |
| 62) SURR246Tribrphenl | 8.432 | 330 | 29232 | 23.18 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 23.18% | | | |
| 78) SURRTerphenyl-d14 | 9.958 | 244 | 272185 | 46.72 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 46.72% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.326 | 74 | 69463 | 9.6149 | ug/mL | 96 |
| 3) Pyridine | 2.349 | 79 | 120191 | 9.4391 | ug/mL | 95 |
| 5) Aniline | 4.019 | 93 | 162973 | 9.5572 | ug/mL | 100 |
| 6) bis2Clethletr | 4.085 | 93 | 109932 | 9.8667 | ug/mL | 99 |
| 8) Phenol | 3.977 | 94 | 130509 | 9.5410 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.145 | 128 | 117152 | 9.5533 | ug/mL | 99 |
| 10) 13Diclbenz | 4.321 | 146 | 127730 | 9.7262 | ug/mL | 96 |
| 11) 14Diclbenz | 4.406 | 146 | 131386 | 9.9305 | ug/mL | 97 |
| 12) 12Diclbenz | 4.582 | 146 | 123352 | 9.7869 | ug/mL | 98 |
| 13) Benzyl alcoho | 4.545 | 108 | 76042 | 9.3577 | ug/mL | 97 |
| 14) bis2clispreth | 4.718 | 45 | 204523 | 9.5874 | ug/mL | 97 |
| 15) 2Methylphenol | 4.684 | 107 | 92537 | 9.7098 | ug/mL | 99 |
| 16) Ntrspyrrol | 4.844 | 100 | 56995 | 9.2550 | ug/mL | 97 |
| 17) Acetophenone | 4.878 | 105 | 161992 | 9.5597 | ug/mL | 92 |
| 18) Hexaclethane | 5.005 | 117 | 48956 | 9.5200 | ug/mL | 97 |
| 19) N-Ntrsdinprop | 4.886 | 70 | 79764 | 9.6619 | ug/mL | 98 |
| 20) 3&4Methylphenol | 4.883 | 107 | 120484 | 9.9210 | ug/mL# | 80 |
| 23) Nitrobenzene | 5.094 | 77 | 108849 | 9.4724 | ug/mL | 98 |
| 24) Isophorone | 5.457 | 82 | 233900 | 9.5189 | ug/mL | 97 |
| 25) 2-Nitrophenol | 5.562 | 139 | 73604 | 9.5726 | ug/mL | 95 |
| 26) 24Dimthpheno | 5.653 | 122 | 115010 | 9.8121 | ug/mL | 94 |
| 27) bis2clethoxym | 5.790 | 93 | 144561 | 9.6795 | ug/mL | 98 |
| 28) 24Diclphenol | 5.895 | 162 | 105668 | 9.6582 | ug/mL | 98 |
| 29) 124Triclbenz | 6.006 | 180 | 117569 | 9.8282 | ug/mL | 98 |
| 30) Benzoic acid | 5.764 | 122 | 44738 | 6.6136 | ug/mL | 88 |
| 31) Naphthalene | 6.097 | 128 | 388578 | 10.0464 | ug/mL | 98 |
| 32) 4-Cl-aniline | 6.176 | 127 | 144986 | 9.4620 | ug/mL | 98 |
| 33) 26Diclphenol | 6.182 | 162 | 104447 | 9.8922 | ug/mL | 98 |
| 34) Hexaclprop | 6.210 | 213 | 77581 | 9.3497 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.267 | 225 | 69138 | 9.8474 | ug/mL | 100 |
| 36) 4Cl3methylphe | 6.750 | 107 | 105692 | 9.4747 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.881 | 142 | 233497 | 9.8460 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.977 | 142 | 242708 | 9.8659 | ug/mL | 97 |
| 40) Hxclcycpentdi | 7.046 | 237 | 76915 | 9.6462 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL3.D Vial: 7
Acq On : 7 Apr 2025 12:08 Operator: JJY
Sample : ICAL 10 ug/mL SVMS10293 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:27:56 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:21:41 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

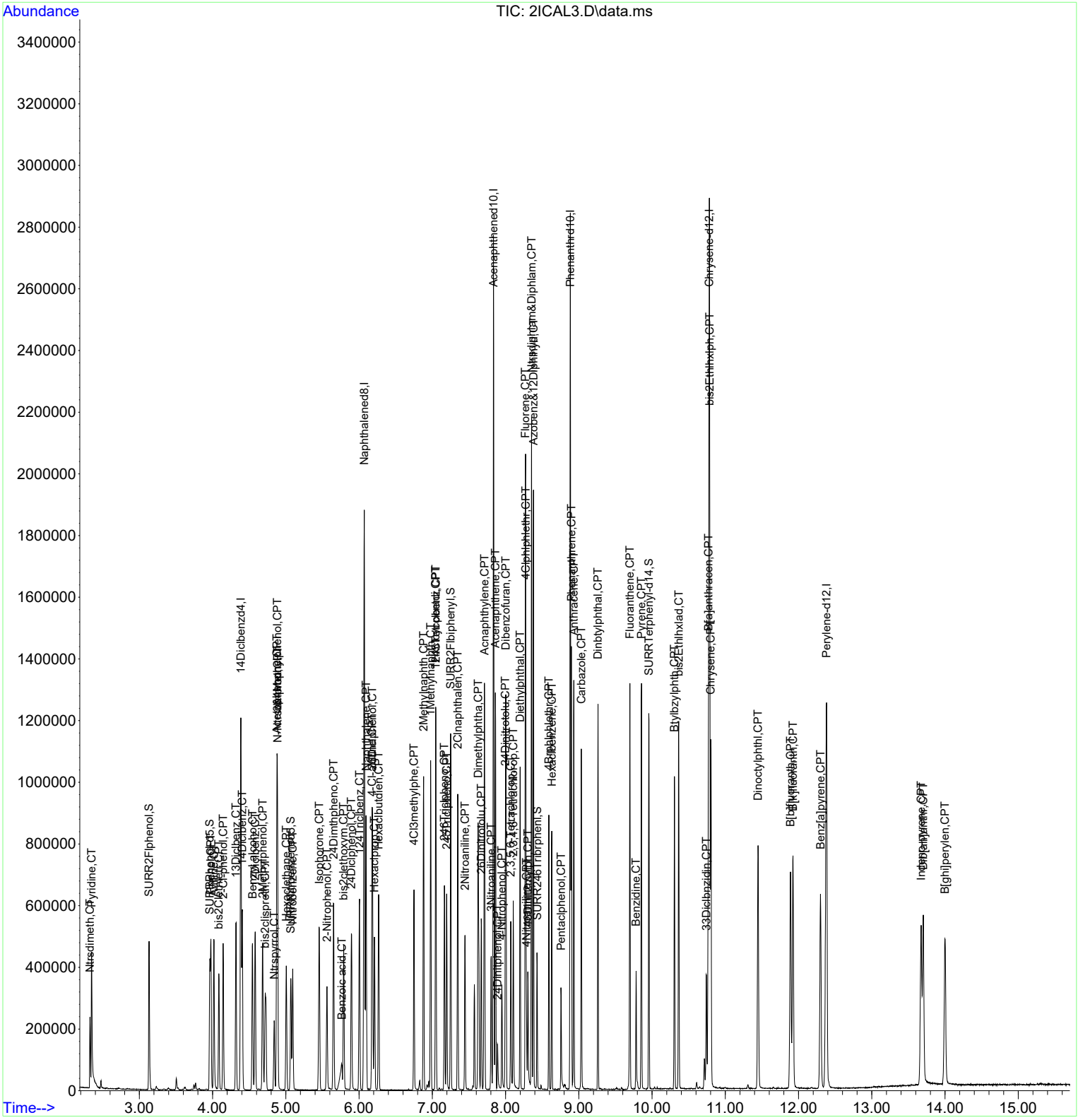
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.048 | 216 | 107842 | 10.2414 ug/mL | 97 |
| 42) 246Triclpheno | 7.165 | 196 | 71383 | 9.5333 ug/mL | 97 |
| 43) 245Triclpheno | 7.196 | 196 | 75203 | 9.3985 ug/mL | 97 |
| 45) 2Clnaphthalen | 7.347 | 162 | 232631 | 9.8758 ug/mL | 99 |
| 46) 2Nitroaniline | 7.446 | 65 | 66097 | 9.0000 ug/mL | 97 |
| 47) Acnaphthylene | 7.713 | 152 | 392324 | 10.4955 ug/mL | 98 |
| 48) Dimethylphtha | 7.625 | 163 | 277053 | 10.0822 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.668 | 165 | 62327 | 9.6612 ug/mL | 98 |
| 50) Acenaphthene | 7.861 | 154 | 223129 | 9.9755 ug/mL | 94 |
| 51) 3Nitroaniline | 7.804 | 138 | 60667 | 9.4778 ug/mL | 98 |
| 52) 24Dinitphenol | 7.890 | 184 | 18398 | 5.9187 ug/mL | 96 |
| 53) Dibenzofuran | 8.003 | 168 | 327990 | 10.4006 ug/mL | 98 |
| 54) 24Dinitrotolu | 7.998 | 165 | 81743 | 9.6107 ug/mL | 92 |
| 55) 4-Nitrophenol | 7.949 | 65 | 39981 | 8.6670 ug/mL | 99 |
| 56) 2,3,5,6-Tetrachlorop | 8.071 | 232 | 52244 | 8.7243 ug/mL | 98 |
| 57) 2,3,4,6-Tetrachlorop | 8.105 | 232 | 57397 | 9.2599 ug/mL | 98 |
| 58) Fluorene | 8.270 | 166 | 246274 | 10.4588 ug/mL | 98 |
| 59) 4Clphlphlethr | 8.276 | 204 | 115361 | 10.5054 ug/mL | 93 |
| 60) Diethylphthal | 8.199 | 149 | 270368 | 9.8364 ug/mL | 99 |
| 61) 4Nitroaniline | 8.284 | 138 | 54942 | 9.8961 ug/mL | 95 |
| 64) 46Dinit2mylph | 8.304 | 198 | 35084 | 8.1918 ug/mL | 96 |
| 65) Ntrsdiphlam&Diphlam | 8.356 | 169 | 355830 | 21.7791 ug/mL | 97 |
| 66) Azobenz&12Diphlhyd | 8.381 | 182 | 124717 | 20.9608 ug/mL | 95 |
| 67) 4Brphlphlethr | 8.591 | 248 | 64130 | 10.4095 ug/mL | 97 |
| 68) Hexaclbenzene | 8.631 | 284 | 70658 | 10.2462 ug/mL | 91 |
| 69) Pentaclphenol | 8.759 | 266 | 25540 | 7.2263 ug/mL | 97 |
| 70) Phenanthrene | 8.898 | 178 | 327524 | 10.4335 ug/mL | 100 |
| 71) Anthracene | 8.932 | 178 | 337382 | 10.4596 ug/mL | 98 |
| 72) Carbazole | 9.035 | 167 | 292344 | 11.4087 ug/mL | 99 |
| 73) Dinbtylphthal | 9.262 | 149 | 406706 | 10.2245 ug/mL | 100 |
| 74) Fluoranthene | 9.697 | 202 | 345842 | 10.2414 ug/mL | 99 |
| 76) Benzidine | 9.782 | 184 | 95506 | 9.2169 ug/mL | 97 |
| 77) Pyrene | 9.856 | 202 | 363849 | 9.6780 ug/mL | 99 |
| 79) Btylbzylphth | 10.305 | 149 | 174956 | 8.8193 ug/mL | 99 |
| 80) bis2Ethlhxlad | 10.364 | 129 | 164776 | 8.9833 ug/mL | 100 |
| 81) 33Diclbnzidin | 10.742 | 252 | 66243 | 9.7380 ug/mL | 99 |
| 82) B[a]anthracen | 10.771 | 228 | 336004 | 9.4294 ug/mL | 99 |
| 83) Chrysene | 10.802 | 228 | 315928 | 9.4439 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.788 | 149 | 269761 | 9.3213 ug/mL | 100 |
| 85) Dinoctylphthl | 11.447 | 149 | 433835 | 8.7796 ug/mL | 100 |
| 87) B[b]fluoranth | 11.890 | 252 | 317407 | 9.6215 ug/mL | 98 |
| 88) B[k]fluoranth | 11.924 | 252 | 323001 | 9.8542 ug/mL | 99 |
| 89) Benz[a]pyrene | 12.299 | 252 | 295838 | 9.6011 ug/mL | 98 |
| 90) Indeno-pyrene | 13.675 | 276 | 328424 | 9.4927 ug/mL | 94 |
| 91) Dib[ah]anthr | 13.703 | 278 | 273049 | 9.6075 ug/mL | 100 |
| 92) B[ghi]perylen | 13.999 | 276 | 256469 | 9.5365 ug/mL | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL3.D Vial: 7
Acq On : 7 Apr 2025 12:08 Operator: JJY
Sample : ICAL 10 ug/mL SVMS10293 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:27:56 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:21:41 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL2.D Vial: 8
Acq On : 7 Apr 2025 12:31 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:49:04 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:29:13 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 182466 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.071 | 136 | 859004 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.838 | 164 | 481537 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 684269 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.779 | 240 | 603820 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.373 | 264 | 627022 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.133 | 112 | 56358 | 12.49 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.49% | | | |
| 7) SURRPhenol-d5 | 3.960 | 99 | 66958 | 12.33 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.33% | | | |
| 22) SURRNitrbenzened5 | 5.068 | 82 | 57548 | 24.49 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 24.49% | | | |
| 44) SURR2Flbiphenyl | 7.253 | 172 | 145646 | 26.02 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 26.02% | | | |
| 62) SURR246Tribrphenl | 8.429 | 330 | 15256 | 12.09 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.09% | | | |
| 78) SURRTerphenyl-d14 | 9.955 | 244 | 145286 | 24.52 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 24.52% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.326 | 74 | 35936 | 4.9213 | ug/mL | 96 |
| 3) Pyridine | 2.349 | 79 | 63489 | 4.9506 | ug/mL | 94 |
| 5) Aniline | 4.017 | 93 | 83799 | 4.8676 | ug/mL | 100 |
| 6) bis2Clethletr | 4.085 | 93 | 55077 | 4.8661 | ug/mL | 99 |
| 8) Phenol | 3.974 | 94 | 68216 | 4.9413 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.142 | 128 | 61042 | 4.9309 | ug/mL | 94 |
| 10) 13Diclbenz | 4.318 | 146 | 69395 | 5.2163 | ug/mL | 96 |
| 11) 14Diclbenz | 4.403 | 146 | 68872 | 5.1177 | ug/mL | 99 |
| 12) 12Diclbenz | 4.579 | 146 | 64555 | 5.0499 | ug/mL | 99 |
| 13) Benzyl alcoho | 4.542 | 108 | 38286 | 4.6857 | ug/mL | 97 |
| 14) bis2clispreth | 4.719 | 45 | 107234 | 4.9761 | ug/mL | 99 |
| 15) 2Methylphenol | 4.682 | 107 | 48022 | 4.9758 | ug/mL | 95 |
| 16) Ntrspyrrol | 4.838 | 100 | 28616 | 4.6309 | ug/mL | 95 |
| 17) Acetophenone | 4.875 | 105 | 86299 | 5.0443 | ug/mL | 92 |
| 18) Hexaclethane | 5.005 | 117 | 25562 | 4.9274 | ug/mL | 97 |
| 19) N-Ntrsdinprop | 4.883 | 70 | 42094 | 5.0399 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.883 | 107 | 62579 | 5.0669 | ug/mL | 93 |
| 23) Nitrobenzene | 5.091 | 77 | 56722 | 4.9675 | ug/mL | 97 |
| 24) Isophorone | 5.454 | 82 | 119347 | 4.8833 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.560 | 139 | 35720 | 4.6656 | ug/mL | 99 |
| 26) 24Dimthpheno | 5.651 | 122 | 60308 | 5.1426 | ug/mL | 97 |
| 27) bis2clethoxym | 5.790 | 93 | 75450 | 5.0629 | ug/mL | 100 |
| 28) 24Diclphenol | 5.895 | 162 | 52703 | 4.8296 | ug/mL | 100 |
| 29) 124Triclbenz | 6.006 | 180 | 61443 | 5.1321 | ug/mL | 95 |
| 30) Benzoic acid | 5.739 | 122 | 13816 | 2.1815 | ug/mL | 88 |
| 31) Naphthalene | 6.097 | 128 | 204167 | 5.2512 | ug/mL | 98 |
| 32) 4-Cl-aniline | 6.176 | 127 | 77270 | 5.0759 | ug/mL | 98 |
| 33) 26Diclphenol | 6.182 | 162 | 55493 | 5.2447 | ug/mL | 90 |
| 34) Hexaclprop | 6.210 | 213 | 39303 | 4.7786 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.267 | 225 | 37083 | 5.2754 | ug/mL | 94 |
| 36) 4Cl3methylphe | 6.750 | 107 | 53807 | 4.8539 | ug/mL | 93 |
| 37) 2Methylnaphth | 6.881 | 142 | 123468 | 5.2001 | ug/mL | 97 |
| 38) 1Methylnaphth | 6.977 | 142 | 129378 | 5.2508 | ug/mL | 99 |
| 40) Hxclcycpentdi | 7.048 | 237 | 38423 | 4.7792 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL2.D Vial: 8
Acq On : 7 Apr 2025 12:31 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:49:04 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:29:13 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

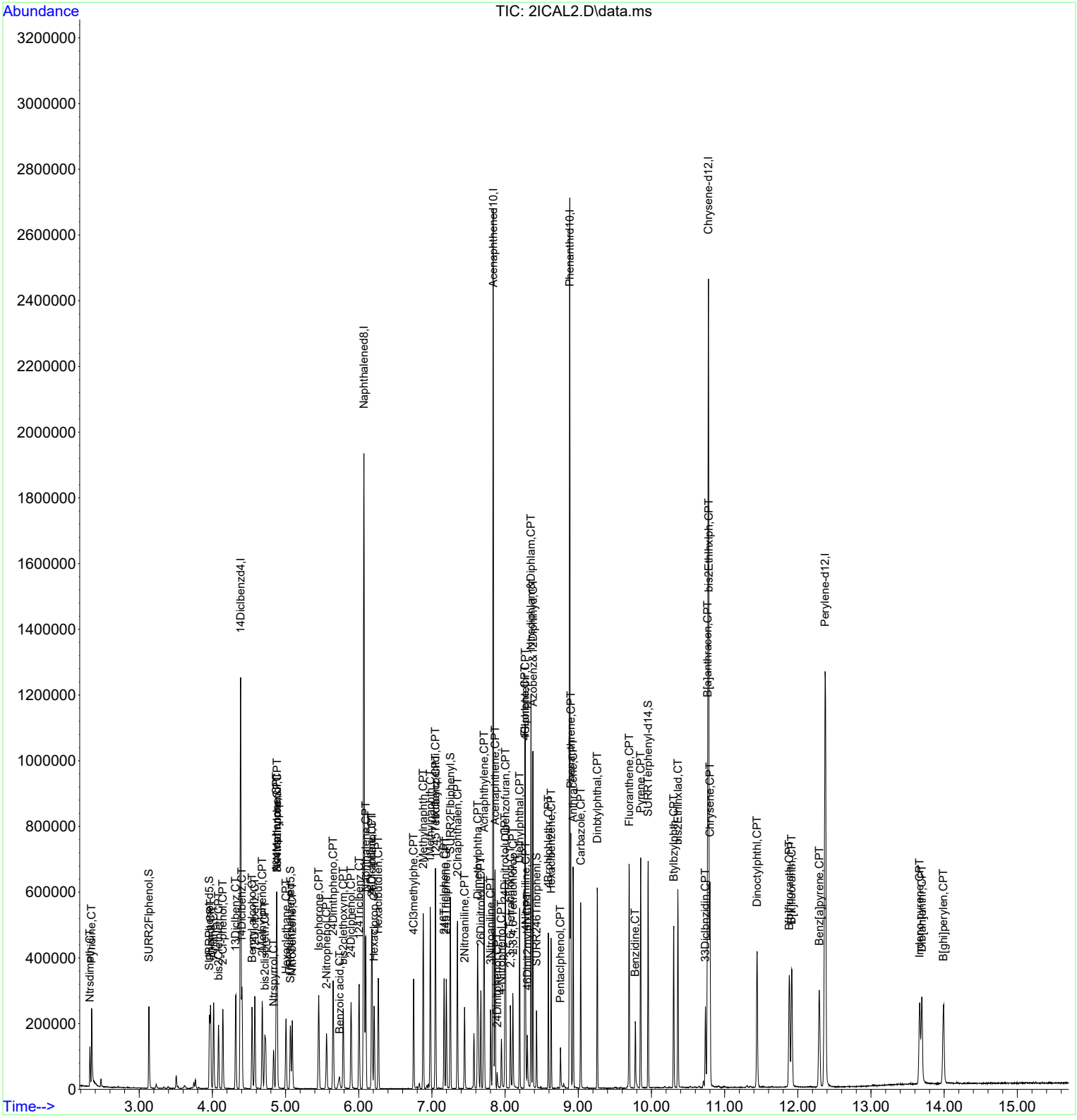
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.051 | 216 | 55270 | 5.1441 ug/mL | 97 |
| 42) 246Triclpheno | 7.168 | 196 | 36568 | 4.8547 ug/mL | 97 |
| 43) 245Triclpheno | 7.196 | 196 | 39394 | 4.9073 ug/mL | 91 |
| 45) 2Clnaphthalen | 7.350 | 162 | 121840 | 5.1064 ug/mL | 98 |
| 46) 2Nitroaniline | 7.446 | 65 | 33223 | 4.5458 ug/mL | 94 |
| 47) Acnaphthylene | 7.713 | 152 | 205259 | 5.3544 ug/mL | 98 |
| 48) Dimethylphtha | 7.625 | 163 | 144152 | 5.1575 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.668 | 165 | 31730 | 4.8766 ug/mL | 96 |
| 50) Acenaphthene | 7.864 | 154 | 118843 | 5.2348 ug/mL | 97 |
| 51) 3Nitroaniline | 7.801 | 138 | 31989 | 4.9734 ug/mL | 89 |
| 52) 24Dinitphenol | 7.892 | 184 | 5724 | 1.9746 ug/mL | 90 |
| 53) Dibenzofuran | 8.006 | 168 | 174916 | 5.4187 ug/mL | 99 |
| 54) 24Dinitrotolu | 7.998 | 165 | 42118 | 4.9148 ug/mL | 90 |
| 55) 4-Nitrophenol | 7.949 | 65 | 18542 | 4.0667 ug/mL | 89 |
| 56) 2,3,5,6-Tetrachlorop | 8.074 | 232 | 25169 | 4.2474 ug/mL | 97 |
| 57) 2,3,4,6-Tetrachlorop | 8.108 | 232 | 28998 | 4.6763 ug/mL | 95 |
| 58) Fluorene | 8.270 | 166 | 130964 | 5.4273 ug/mL | 98 |
| 59) 4Clphlphlethr | 8.276 | 204 | 61395 | 5.4508 ug/mL | 93 |
| 60) Diethylphthal | 8.199 | 149 | 140604 | 5.0540 ug/mL | 99 |
| 61) 4Nitroaniline | 8.282 | 138 | 28635 | 5.0897 ug/mL | 92 |
| 64) 46Dinit2mylph | 8.304 | 198 | 14687 | 3.4651 ug/mL | 97 |
| 65) Ntrsdiphlam&Diphlam | 8.353 | 169 | 187135 | 10.9598 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.381 | 182 | 65024 | 10.5418 ug/mL# | 86 |
| 67) 4Brphlphlethr | 8.591 | 248 | 33026 | 5.1784 ug/mL | 96 |
| 68) Hexaclbenzene | 8.628 | 284 | 37372 | 5.2520 ug/mL | 98 |
| 69) Pentaclphenol | 8.756 | 266 | 9232 | 2.6933 ug/mL | 91 |
| 70) Phenanthrene | 8.898 | 178 | 174530 | 5.3681 ug/mL | 99 |
| 71) Anthracene | 8.930 | 178 | 173444 | 5.1891 ug/mL | 98 |
| 72) Carbazole | 9.035 | 167 | 154865 | 5.7245 ug/mL | 99 |
| 73) Dinbtylphthal | 9.259 | 149 | 210515 | 5.1311 ug/mL | 99 |
| 74) Fluoranthene | 9.697 | 202 | 187323 | 5.3764 ug/mL | 97 |
| 76) Benzidine | 9.779 | 184 | 56637 | 5.3892 ug/mL | 99 |
| 77) Pyrene | 9.853 | 202 | 196427 | 5.1037 ug/mL | 97 |
| 79) Btylbzylphth | 10.305 | 149 | 89870 | 4.5031 ug/mL | 96 |
| 80) bis2Ethlhxlad | 10.362 | 129 | 84349 | 4.5558 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.737 | 252 | 43484 | 6.2367 ug/mL | 96 |
| 82) B[a]anthracen | 10.768 | 228 | 178414 | 4.9155 ug/mL | 98 |
| 83) Chrysene | 10.799 | 228 | 168573 | 4.9457 ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.785 | 149 | 138236 | 4.6997 ug/mL | 99 |
| 85) Dinoctylphthl | 11.444 | 149 | 216408 | 4.3568 ug/mL | 100 |
| 87) B[b]fluoranth | 11.885 | 252 | 164035 | 4.9142 ug/mL | 99 |
| 88) B[k]fluoranth | 11.916 | 252 | 161442 | 4.8450 ug/mL | 99 |
| 89) Benz[a]pyrene | 12.294 | 252 | 149148 | 4.7858 ug/mL | 99 |
| 90) Indeno-pyrene | 13.666 | 276 | 157704 | 4.5167 ug/mL | 95 |
| 91) Dib[ah]anthr | 13.695 | 278 | 131036 | 4.5580 ug/mL | 98 |
| 92) B[ghi]perylen | 13.990 | 276 | 125330 | 4.6137 ug/mL | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL2.D Vial: 8
Acq On : 7 Apr 2025 12:31 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 12:49:04 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:29:13 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL1.D Vial: 9
Acq On : 7 Apr 2025 12:54 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:29:04 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:51:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 173860 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.068 | 136 | 824788 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.836 | 164 | 458044 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 651443 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.776 | 240 | 578280 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.376 | 264 | 600569 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.133 | 112 | 10384 | 2.42 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.42% | | | |
| 7) SURRPhenol-d5 | 3.960 | 99 | 12227 | 2.37 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.37% | | | |
| 22) SURRNitrbenzened5 | 5.065 | 82 | 10580 | 4.71 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.71% | | | |
| 44) SURR2Flbiphenyl | 7.250 | 172 | 29331 | 5.47 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.47% | | | |
| 62) SURR246Tribrphenl | 8.429 | 330 | 2718 | 2.28 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.28% | | | |
| 78) SURRTerphenyl-d14 | 9.955 | 244 | 27268 | 4.82 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.82% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.332 | 74 | 6613 | 0.9530 | ug/mL | 92 |
| 3) Pyridine | 2.360 | 79 | 12191 | 0.9993 | ug/mL | 97 |
| 5) Aniline | 4.017 | 93 | 16047 | 0.9826 | ug/mL | 99 |
| 6) bis2Clethletr | 4.082 | 93 | 10675 | 0.9943 | ug/mL | 93 |
| 8) Phenol | 3.974 | 94 | 12178 | 0.9276 | ug/mL | 96 |
| 9) 2-Cl-phenol | 4.145 | 128 | 10976 | 0.9327 | ug/mL | 98 |
| 10) 13Diclbenz | 4.318 | 146 | 13140 | 1.0292 | ug/mL | 98 |
| 11) 14Diclbenz | 4.403 | 146 | 13624 | 1.0583 | ug/mL | 97 |
| 12) 12Diclbenz | 4.579 | 146 | 12593 | 1.0322 | ug/mL | 94 |
| 13) Benzyl alcoho | 4.542 | 108 | 6850 | 0.8892 | ug/mL | 95 |
| 14) bis2clispreth | 4.721 | 45 | 21599 | 1.0527 | ug/mL | 95 |
| 15) 2Methylphenol | 4.682 | 107 | 8719 | 0.9489 | ug/mL | 97 |
| 16) Ntrspyrrol | 4.832 | 100 | 4961 | 0.8531 | ug/mL | 82 |
| 17) Acetophenone | 4.872 | 105 | 15778 | 0.9665 | ug/mL | 92 |
| 18) Hexaclethane | 5.005 | 117 | 5158 | 1.0460 | ug/mL | 85 |
| 19) N-Ntrsdinprop | 4.880 | 70 | 8209 | 1.0301 | ug/mL | 92 |
| 20) 3&4Methylphenol | 4.883 | 107 | 11399 | 0.9665 | ug/mL | 93 |
| 23) Nitrobenzene | 5.091 | 77 | 10491 | 0.9579 | ug/mL | 94 |
| 24) Isophorone | 5.452 | 82 | 21693 | 0.9280 | ug/mL | 94 |
| 25) 2-Nitrophenol | 5.560 | 139 | 5936 | 0.8166 | ug/mL | 95 |
| 26) 24Dimthpheno | 5.648 | 122 | 11294 | 0.9983 | ug/mL | 87 |
| 27) bis2clethoxym | 5.790 | 93 | 14100 | 0.9833 | ug/mL | 96 |
| 28) 24Diclphenol | 5.895 | 162 | 9425 | 0.9047 | ug/mL | 94 |
| 29) 124Triclbenz | 6.003 | 180 | 11475 | 0.9938 | ug/mL | 95 |
| 30) Benzoic acid | 0.000 | | 0 | N.D. | | |
| 31) Naphthalene | 6.094 | 128 | 41268 | 1.0963 | ug/mL | 97 |
| 32) 4-Cl-aniline | 6.176 | 127 | 13810 | 0.9424 | ug/mL | 95 |
| 33) 26Diclphenol | 6.182 | 162 | 9814 | 0.9582 | ug/mL | 91 |
| 34) Hexaclprop | 6.210 | 213 | 7073 | 0.9023 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.267 | 225 | 6934 | 1.0180 | ug/mL | 96 |
| 36) 4Cl3methylphe | 6.750 | 107 | 9488 | 0.8958 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.881 | 142 | 23691 | 1.0323 | ug/mL | 91 |
| 38) 1Methylnaphth | 6.977 | 142 | 25407 | 1.0650 | ug/mL | 98 |
| 40) Hxclcycpentdi | 7.048 | 237 | 6249 | 0.8232 | ug/mL | 96 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL1.D Vial: 9
Acq On : 7 Apr 2025 12:54 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:29:04 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:51:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

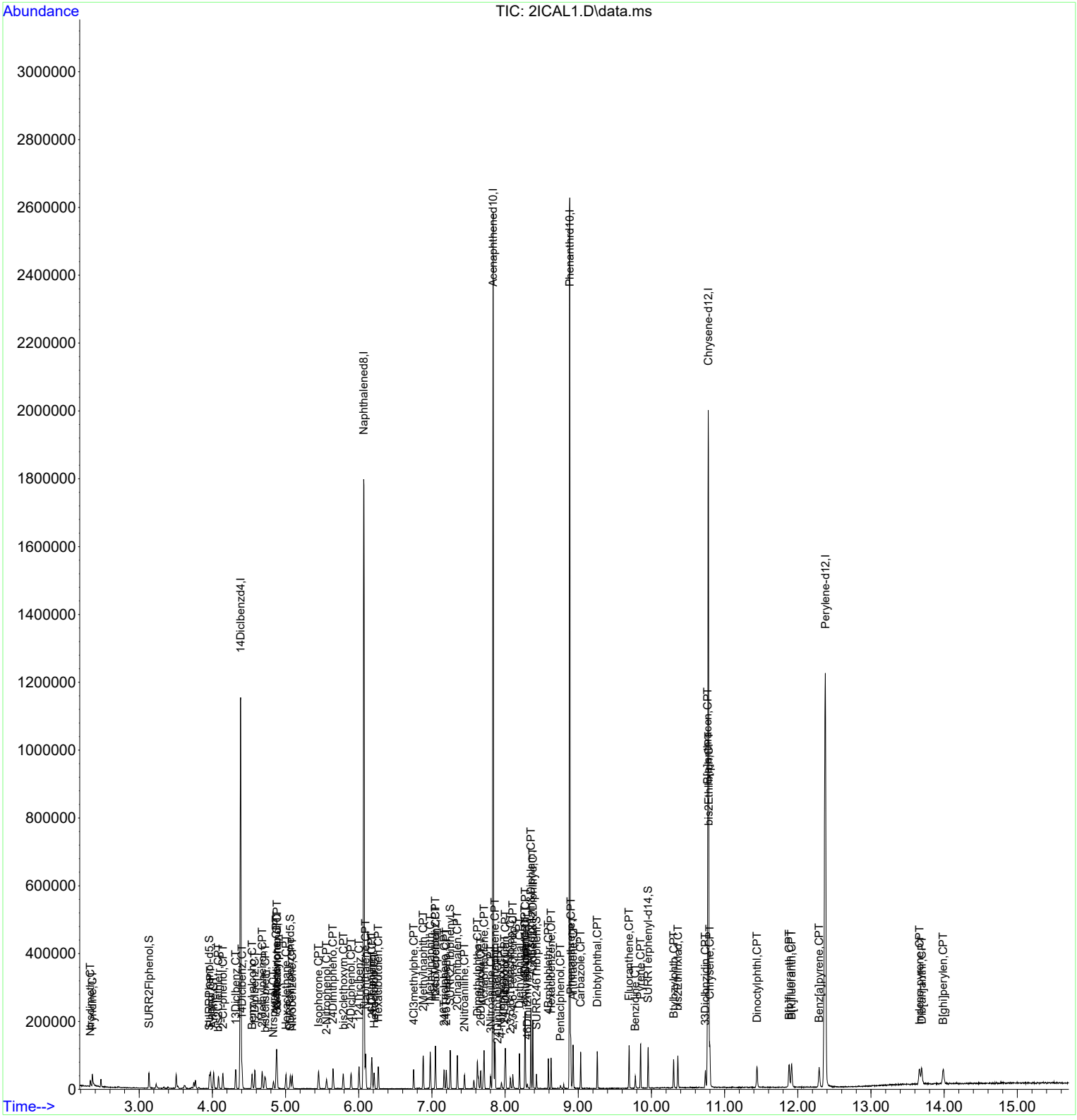
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.048 | 216 | 11402 | 1.1103 | ug/mL | 93 |
| 42) 246Triclpheno | 7.168 | 196 | 6512 | 0.9133 | ug/mL | 96 |
| 43) 245Triclpheno | 7.196 | 196 | 6751 | 0.8869 | ug/mL | 95 |
| 45) 2Clnaphthalen | 7.347 | 162 | 23806 | 1.0452 | ug/mL | 97 |
| 46) 2Nitroaniline | 7.443 | 65 | 5248 | 0.7665 | ug/mL | 93 |
| 47) Acnaphthylene | 7.713 | 152 | 38239 | 1.0364 | ug/mL | 98 |
| 48) Dimethylphtha | 7.622 | 163 | 27391 | 1.0249 | ug/mL | 98 |
| 49) 26Dinitrotolu | 7.668 | 165 | 5382 | 0.8732 | ug/mL | 91 |
| 50) Acenaphthene | 7.861 | 154 | 22971 | 1.0555 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.804 | 138 | 4989 | 0.8162 | ug/mL | 85 |
| 52) 24Dinitphenol | 7.895 | 184 | 70 | 0.0282 | ug/mL# | 1 |
| 53) Dibenzofuran | 8.003 | 168 | 33614 | 1.0797 | ug/mL | 98 |
| 54) 24Dinitrotolu | 7.995 | 165 | 6503 | 0.8000 | ug/mL | 94 |
| 55) 4-Nitrophenol | 7.949 | 65 | 2562 | 0.6097 | ug/mL | 94 |
| 56) 2,3,5,6-Tetrachlorop | 8.074 | 232 | 3437 | 0.6255 | ug/mL | 96 |
| 57) 2,3,4,6-Tetrachlorop | 8.105 | 232 | 3730 | 0.6393 | ug/mL# | 83 |
| 58) Fluorene | 8.270 | 166 | 25869 | 1.1112 | ug/mL | 93 |
| 59) 4Clphlphlethr | 8.276 | 204 | 12535 | 1.1526 | ug/mL | 92 |
| 60) Diethylphthal | 8.196 | 149 | 26324 | 0.9930 | ug/mL | 100 |
| 61) 4Nitroaniline | 8.279 | 138 | 4837 | 0.9012 | ug/mL | 95 |
| 64) 46Dinit2mylph | 8.304 | 198 | 1265 | 0.3304 | ug/mL | 84 |
| 65) Ntrsdiphlam&Diphlam | 8.353 | 169 | 36319 | 2.1991 | ug/mL | 98 |
| 66) Azobenz&12Diphlhyd | 8.378 | 182 | 13305 | 2.2454 | ug/mL# | 87 |
| 67) 4Brphlphlethr | 8.591 | 248 | 6274 | 1.0272 | ug/mL | 93 |
| 68) Hexaclbenzene | 8.628 | 284 | 7435 | 1.0884 | ug/mL | 97 |
| 69) Pentaclphenol | 8.756 | 266 | 835 | 0.2772 | ug/mL | 81 |
| 70) Phenanthrene | 8.898 | 178 | 34555 | 1.1028 | ug/mL | 98 |
| 71) Anthracene | 8.930 | 178 | 33705 | 1.0526 | ug/mL | 96 |
| 72) Carbazole | 9.032 | 167 | 29042 | 1.1010 | ug/mL | 98 |
| 73) Dinbtylphthal | 9.259 | 149 | 37082 | 0.9452 | ug/mL | 97 |
| 74) Fluoranthene | 9.694 | 202 | 34762 | 1.0350 | ug/mL | 95 |
| 76) Benzidine | 9.779 | 184 | 10586 | 1.0383 | ug/mL | 95 |
| 77) Pyrene | 9.853 | 202 | 36578 | 0.9890 | ug/mL | 98 |
| 79) Btylbzylphth | 10.305 | 149 | 14495 | 0.7712 | ug/mL | 89 |
| 80) bis2Ethlhxlad | 10.362 | 129 | 13569 | 0.7767 | ug/mL | 95 |
| 81) 33Diclbnzidin | 10.737 | 252 | 9782 | 1.4070 | ug/mL | 96 |
| 82) B[a]anthracen | 10.768 | 228 | 34560 | 0.9970 | ug/mL | 96 |
| 83) Chrysene | 10.796 | 228 | 33254 | 1.0206 | ug/mL | 96 |
| 84) bis2Ethlhxlph | 10.785 | 149 | 23324 | 0.8364 | ug/mL | 97 |
| 85) Dinoctylphthl | 11.444 | 149 | 32608 | 0.7005 | ug/mL | 97 |
| 87) B[b]fluoranth | 11.882 | 252 | 28704 | 0.9004 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.916 | 252 | 31318 | 0.9864 | ug/mL | 91 |
| 89) Benz[a]pyrene | 12.291 | 252 | 26799 | 0.9042 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.663 | 276 | 28804 | 0.8754 | ug/mL | 96 |
| 91) Dib[ah]anthr | 13.695 | 278 | 22778 | 0.8396 | ug/mL | 98 |
| 92) B[ghi]perylen | 13.987 | 276 | 22919 | 0.8924 | ug/mL | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL1.D Vial: 9
Acq On : 7 Apr 2025 12:54 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:29:04 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 12:51:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040725\2ICV1.D Vial: 10
Acq On : 7 Apr 2025 13:18 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:00:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 20.000 | 20.000 | 0.0 | 97 | 0.00 |
| 2 | CT | Ntrsdimeth | 20.000 | 21.399 | -7.0 | 103 | 0.00 |
| 3 | CT | Pyridine | 20.000 | 20.943 | -4.7 | 101 | 0.00 |
| 4 | S | SURR2Flphenol | 50.000 | 52.671 | -5.3 | 100 | 0.00 |
| 5 | CT | Aniline | 20.000 | 21.170 | -5.9 | 102 | 0.00 |
| 6 | CPT | bis2Clethletr | 20.000 | 21.192 | -6.0 | 101 | 0.00 |
| 7 | S | SURRPhenol-d5 | 50.000 | 52.766 | -5.5 | 101 | 0.00 |
| 8 | CPT | Phenol | 20.000 | 21.308 | -6.5 | 101 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 20.000 | 21.451 | -7.3 | 103 | 0.00 |
| 10 | CT | 13Diclbenz | 20.000 | 21.064 | -5.3 | 102 | 0.00 |
| 11 | CT | 14Diclbenz | 20.000 | 20.919 | -4.6 | 102 | 0.00 |
| 12 | CT | 12Diclbenz | 20.000 | 20.903 | -4.5 | 101 | 0.00 |
| 13 | CT | Benzyl alcoho | 20.000 | 21.176 | -5.9 | 99 | 0.00 |
| 14 | CPT | bis2clispreth | 20.000 | 20.804 | -4.0 | 101 | 0.00 |
| 15 | CPT | 2Methylphenol | 20.000 | 20.852 | -4.3 | 99 | 0.00 |
| 16 | CT | Ntrspyrrol | 20.000 | 21.809 | -9.0 | 101 | 0.00 |
| 17 | CPT | Acetophenone | 20.000 | 21.488 | -7.4 | 103 | 0.00 |
| 18 | CPT | Hexaclethane | 20.000 | 21.087 | -5.4 | 103 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 20.000 | 20.744 | -3.7 | 102 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 20.000 | 21.129 | -5.6 | 100 | 0.00 |
| 21 | I | Naphthalened8 | 20.000 | 20.000 | 0.0 | 94 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 100.000 | 107.454 | -7.5 | 99 | 0.00 |
| 23 | CPT | Nitrobenzene | 20.000 | 21.673 | -8.4 | 100 | 0.00 |
| 24 | CPT | Isophorone | 20.000 | 21.622 | -8.1 | 98 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 20.000 | 22.481 | -12.4 | 96 | 0.00 |
| 26 | CPT | 24Dimthpheno | 20.000 | 21.171 | -5.9 | 98 | 0.00 |
| 27 | CPT | bis2clethoxym | 20.000 | 21.746 | -8.7 | 101 | 0.00 |
| 28 | CPT | 24Diclphenol | 20.000 | 21.831 | -9.2 | 99 | 0.00 |
| 29 | CT | 124Triclbenz | 20.000 | 21.836 | -9.2 | 102 | 0.00 |
| 30 | CT | Benzoic acid | 20.000 | 19.700 | 1.5 | 94 | 0.00 |
| 31 | CPT | Naphthalene | 20.000 | 21.460 | -7.3 | 101 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 20.000 | 20.992 | -5.0 | 101 | 0.00 |
| 33 | CT | 26Diclphenol | 20.000 | 22.047 | -10.2 | 102 | 0.00 |
| 34 | CT | Hexaclprop | 20.000 | 22.246 | -11.2 | 102 | 0.00 |
| 35 | CPT | Hexaclbutdien | 20.000 | 21.626 | -8.1 | 101 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 20.000 | 21.652 | -8.3 | 98 | 0.00 |
| 37 | CPT | 2Methylnaphth | 20.000 | 21.367 | -6.8 | 98 | 0.00 |
| 38 | CT | 1Methylnaphth | 20.000 | 21.349 | -6.7 | 98 | 0.00 |
| 39 | I | Acenaphthened10 | 20.000 | 20.000 | 0.0 | 92 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 20.000 | 22.241 | -11.2 | 97 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 20.000 | 21.938 | -9.7 | 101 | 0.00 |
| 42 | CPT | 246Triclpheno | 20.000 | 21.873 | -9.4 | 98 | 0.00 |
| 43 | CPT | 245Triclpheno | 20.000 | 21.541 | -7.7 | 97 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 100.000 | 107.554 | -7.6 | 99 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 20.000 | 21.732 | -8.7 | 99 | 0.00 |
| 46 | CPT | 2Nitroaniline | 20.000 | 21.562 | -7.8 | 98 | 0.00 |
| 47 | CPT | Acnaphthylene | 20.000 | 21.670 | -8.4 | 98 | 0.00 |
| 48 | CPT | Dimethylphtha | 20.000 | 21.591 | -8.0 | 97 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 20.000 | 21.808 | -9.0 | 97 | 0.00 |
| 50 | CPT | Acenaphthene | 20.000 | 21.566 | -7.8 | 98 | 0.00 |
| 51 | CPT | 3Nitroaniline | 20.000 | 20.890 | -4.5 | 100 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040725\2ICV1.D Vial: 10
Acq On : 7 Apr 2025 13:18 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:00:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 20.000 | 19.935 | 0.3 | 94 | 0.00 |
| 53 | CPT | Dibenzofuran | 20.000 | 21.742 | -8.7 | 99 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 20.000 | 22.127 | -10.6 | 97 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 20.000 | 20.373 | -1.9 | 95 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 20.000 | 21.430 | -7.1 | 97 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 20.000 | 22.095 | -10.5 | 101 | 0.00 |
| 58 | CPT | Fluorene | 20.000 | 22.029 | -10.1 | 100 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 20.000 | 21.596 | -8.0 | 99 | 0.00 |
| 60 | CPT | Diethylphthal | 20.000 | 21.856 | -9.3 | 100 | 0.00 |
| 61 | CPT | 4Nitroaniline | 20.000 | 20.791 | -4.0 | 97 | 0.00 |
| 62 | S | SURR246Tribrphenl | 50.000 | 55.551 | -11.1 | 100 | 0.00 |
| 63 | I | Phenanthrd10 | 20.000 | 20.000 | 0.0 | 92 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 20.000 | 20.855 | -4.3 | 97 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 40.000 | 44.138 | -10.3 | 100 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 40.000 | 43.981 | -10.0 | 98 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 20.000 | 21.510 | -7.6 | 98 | 0.00 |
| 68 | CPT | Hexaclbenzene | 20.000 | 21.599 | -8.0 | 100 | 0.00 |
| 69 | CPT | Pentaclphenol | 20.000 | 20.961 | -4.8 | 96 | 0.00 |
| 70 | CPT | Phenanthrene | 20.000 | 21.791 | -9.0 | 98 | 0.00 |
| 71 | CPT | Anthracene | 20.000 | 22.023 | -10.1 | 98 | 0.00 |
| 72 | CPT | Carbazole | 20.000 | 21.681 | -8.4 | 100 | 0.00 |
| 73 | CPT | Dinbtylphthal | 20.000 | 22.527 | -12.6 | 98 | 0.00 |
| 74 | CPT | Fluoranthene | 20.000 | 22.154 | -10.8 | 98 | 0.00 |
| 75 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 92 | 0.00 |
| 76 | CT | Benzidine | 20.000 | 19.518 | 2.4 | 93 | 0.00 |
| 77 | CPT | Pyrene | 20.000 | 22.081 | -10.4 | 99 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 100.000 | 107.030 | -7.0 | 96 | 0.00 |
| 79 | CPT | Btylbzylphth | 20.000 | 21.798 | -9.0 | 99 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 20.000 | 21.874 | -9.4 | 98 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 20.000 | 20.062 | -0.3 | 100 | 0.00 |
| 82 | CPT | B[a]anthracen | 20.000 | 21.559 | -7.8 | 98 | 0.00 |
| 83 | CPT | Chrysene | 20.000 | 21.377 | -6.9 | 97 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 20.000 | 22.813 | -14.1 | 98 | 0.00 |
| 85 | CPT | Dinoctylphthl | 20.000 | 21.792 | -9.0 | 98 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 91 | 0.00 |
| 87 | CPT | B[b]fluoranth | 20.000 | 21.832 | -9.2 | 94 | 0.00 |
| 88 | CPT | B[k]fluoranth | 20.000 | 22.842 | -14.2 | 100 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 20.000 | 22.200 | -11.0 | 98 | 0.00 |
| 90 | CPT | Indeno-pyrene | 20.000 | 22.121 | -10.6 | 100 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 20.000 | 22.143 | -10.7 | 99 | 0.00 |
| 92 | CPT | B[ghi]perylen | 20.000 | 21.859 | -9.3 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040725\2ICV1.D Vial: 10
Acq On : 7 Apr 2025 13:18 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:00:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 2 | CT | Ntrsdimeth | 0.793 | 0.848 | -6.9 | 103 | 0.00 |
| 3 | CT | Pyridine | 1.403 | 1.469 | -4.7 | 101 | 0.00 |
| 4 | S | SURR2Flphenol | 0.492 | 0.518 | -5.3 | 100 | 0.00 |
| 5 | CT | Aniline | 1.874 | 1.984 | -5.9 | 102 | 0.00 |
| 6 | CPT | bis2Clethletr | 1.234 | 1.308 | -6.0 | 101 | 0.00 |
| 7 | S | SURRPhenol-d5 | 0.589 | 0.622 | -5.6 | 101 | 0.00 |
| 8 | CPT | Phenol | 1.495 | 1.592 | -6.5 | 101 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 1.341 | 1.438 | -7.2 | 103 | 0.00 |
| 10 | CT | 13Diclbenz | 1.475 | 1.553 | -5.3 | 102 | 0.00 |
| 11 | CT | 14Diclbenz | 1.493 | 1.562 | -4.6 | 102 | 0.00 |
| 12 | CT | 12Diclbenz | 1.410 | 1.474 | -4.5 | 101 | 0.00 |
| 13 | CT | Benzyl alcoho | 0.872 | 0.923 | -5.8 | 99 | 0.00 |
| 14 | CPT | bis2clispreth | 2.378 | 2.474 | -4.0 | 101 | 0.00 |
| 15 | CPT | 2Methylphenol | 1.049 | 1.094 | -4.3 | 99 | 0.00 |
| 16 | CT | Ntrspyrrol | 0.655 | 0.714 | -9.0 | 101 | 0.00 |
| 17 | CPT | Acetophenone | 1.869 | 2.008 | -7.4 | 103 | 0.00 |
| 18 | CPT | Hexaclethane | 0.571 | 0.602 | -5.4 | 103 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 0.921 | 0.955 | -3.7 | 102 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 1.350 | 1.426 | -5.6 | 100 | 0.00 |
| 21 | I | Naphthalened8 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 0.054 | 0.058 | -7.4 | 99 | 0.00 |
| 23 | CPT | Nitrobenzene | 0.264 | 0.286 | -8.3 | 100 | 0.00 |
| 24 | CPT | Isophorone | 0.561 | 0.606 | -8.0 | 98 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 0.172 | 0.193 | -12.2 | 96 | 0.00 |
| 26 | CPT | 24Dimthpheno | 0.274 | 0.290 | -5.8 | 98 | 0.00 |
| 27 | CPT | bis2clethoxym | 0.347 | 0.377 | -8.6 | 101 | 0.00 |
| 28 | CPT | 24Diclphenol | 0.249 | 0.272 | -9.2 | 99 | 0.00 |
| 29 | CT | 124Triclbenz | 0.280 | 0.305 | -8.9 | 102 | 0.00 |
| 30 | CT | Benzoic acid | 0.134 | 0.140 | -4.5 | 94 | 0.00 |
| 31 | CPT | Naphthalene | 0.925 | 0.993 | -7.4 | 101 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 0.352 | 0.370 | -5.1 | 101 | 0.00 |
| 33 | CT | 26Diclphenol | 0.247 | 0.272 | -10.1 | 102 | 0.00 |
| 34 | CT | Hexaclprop | 0.187 | 0.208 | -11.2 | 102 | 0.00 |
| 35 | CPT | Hexaclbutdien | 0.166 | 0.179 | -7.8 | 101 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 0.253 | 0.274 | -8.3 | 98 | 0.00 |
| 37 | CPT | 2Methylnaphth | 0.559 | 0.597 | -6.8 | 98 | 0.00 |
| 38 | CT | 1Methylnaphth | 0.584 | 0.623 | -6.7 | 98 | 0.00 |
| 39 | I | Acenaphthened10 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 0.323 | 0.359 | -11.1 | 97 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 0.455 | 0.500 | -9.9 | 101 | 0.00 |
| 42 | CPT | 246Triclpheno | 0.307 | 0.336 | -9.4 | 98 | 0.00 |
| 43 | CPT | 245Triclpheno | 0.327 | 0.352 | -7.6 | 97 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 0.237 | 0.255 | -7.6 | 99 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 1.001 | 1.088 | -8.7 | 99 | 0.00 |
| 46 | CPT | 2Nitroaniline | 0.289 | 0.323 | -11.8 | 98 | 0.00 |
| 47 | CPT | Acnaphthylene | 1.619 | 1.755 | -8.4 | 98 | 0.00 |
| 48 | CPT | Dimethylphtha | 1.171 | 1.264 | -7.9 | 97 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 0.264 | 0.288 | -9.1 | 97 | 0.00 |
| 50 | CPT | Acenaphthene | 0.958 | 1.033 | -7.8 | 98 | 0.00 |
| 51 | CPT | 3Nitroaniline | 0.260 | 0.274 | -5.4 | 100 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040725\2ICV1.D Vial: 10
Acq On : 7 Apr 2025 13:18 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:00:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 0.108 | 0.114 | -5.6 | 94 | 0.00 |
| 53 | CPT | Dibenzofuran | 1.375 | 1.495 | -8.7 | 99 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 0.345 | 0.381 | -10.4 | 97 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 0.183 | 0.190 | -3.8 | 95 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 0.227 | 0.259 | -14.1 | 97 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 0.242 | 0.284 | -17.4 | 101 | 0.00 |
| 58 | CPT | Fluorene | 1.033 | 1.137 | -10.1 | 100 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 0.485 | 0.524 | -8.0 | 99 | 0.00 |
| 60 | CPT | Diethylphthal | 1.156 | 1.264 | -9.3 | 100 | 0.00 |
| 61 | CPT | 4Nitroaniline | 0.231 | 0.240 | -3.9 | 97 | 0.00 |
| 62 | S | SURR246Tribrphenl | 0.051 | 0.057 | -11.8 | 100 | 0.00 |
| 63 | I | Phenanthrd10 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 0.118 | 0.129 | -9.3 | 97 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 0.514 | 0.566 | -10.1 | 100 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 0.185 | 0.203 | -9.7 | 98 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 0.188 | 0.202 | -7.4 | 98 | 0.00 |
| 68 | CPT | Hexaclbenzene | 0.212 | 0.229 | -8.0 | 100 | 0.00 |
| 69 | CPT | Pentaclphenol | 0.092 | 0.103 | -12.0 | 96 | 0.00 |
| 70 | CPT | Phenanthrene | 0.976 | 1.063 | -8.9 | 98 | 0.00 |
| 71 | CPT | Anthracene | 0.990 | 1.091 | -10.2 | 98 | 0.00 |
| 72 | CPT | Carbazole | 0.821 | 0.882 | -7.4 | 100 | 0.00 |
| 73 | CPT | Dinbtylphthal | 1.195 | 1.346 | -12.6 | 98 | 0.00 |
| 74 | CPT | Fluoranthene | 1.036 | 1.148 | -10.8 | 98 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 76 | CT | Benzidine | 0.355 | 0.318 | 10.4 | 93 | 0.00 |
| 77 | CPT | Pyrene | 1.277 | 1.410 | -10.4 | 99 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 0.195 | 0.208 | -6.7 | 96 | 0.00 |
| 79 | CPT | Btylbzylphth | 0.629 | 0.713 | -13.4 | 99 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 0.585 | 0.667 | -14.0 | 98 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 0.254 | 0.222 | 12.6 | 100 | 0.00 |
| 82 | CPT | B[a]anthracen | 1.198 | 1.292 | -7.8 | 98 | 0.00 |
| 83 | CPT | Chrysene | 1.130 | 1.208 | -6.9 | 97 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 0.942 | 1.074 | -14.0 | 98 | 0.00 |
| 85 | CPT | Dinoctylphthl | 1.541 | 1.768 | -14.7 | 98 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 87 | CPT | B[b]fluoranth | 1.047 | 1.142 | -9.1 | 94 | 0.00 |
| 88 | CPT | B[k]fluoranth | 1.055 | 1.205 | -14.2 | 100 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 0.973 | 1.081 | -11.1 | 98 | 0.00 |
| 90 | CPT | Indeno-pyrene | 1.076 | 1.190 | -10.6 | 100 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 0.883 | 0.977 | -10.6 | 99 | 0.00 |
| 92 | CPT | B[ghi]perylen | 0.842 | 0.920 | -9.3 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICV1.D Vial: 10
Acq On : 7 Apr 2025 13:18 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:00:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 169854 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.071 | 136 | 787545 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.839 | 164 | 434850 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 614140 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.782 | 240 | 520867 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.376 | 264 | 544848 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.133 | 112 | 220105 | 52.67 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 52.67% | | | |
| 7) SURRPhenol-d5 | 3.966 | 99 | 264156 | 52.77 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 52.77% | | | |
| 22) SURRNitrbenzened5 | 5.071 | 82 | 228772 | 107.45 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 107.45% | | | |
| 44) SURR2Flbiphenyl | 7.253 | 172 | 554767 | 107.55 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 107.55% | | | |
| 62) SURR246Tribrphenl | 8.435 | 330 | 62155 | 55.55 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 55.55% | | | |
| 78) SURRTerphenyl-d14 | 9.958 | 244 | 542454 | 107.03 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 107.03% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.326 | 74 | 144099 | 21.3986 | ug/mL | 97 |
| 3) Pyridine | 2.346 | 79 | 249586 | 20.9432 | ug/mL | 97 |
| 5) Aniline | 4.023 | 93 | 336921 | 21.1697 | ug/mL | 100 |
| 6) bis2Clethletr | 4.088 | 93 | 222110 | 21.1924 | ug/mL | 99 |
| 8) Phenol | 3.980 | 94 | 270469 | 21.3082 | ug/mL | 97 |
| 9) 2-Cl-phenol | 4.148 | 128 | 244250 | 21.4507 | ug/mL | 96 |
| 10) 13Diclbenz | 4.321 | 146 | 263830 | 21.0639 | ug/mL | 96 |
| 11) 14Diclbenz | 4.406 | 146 | 265282 | 20.9189 | ug/mL | 99 |
| 12) 12Diclbenz | 4.582 | 146 | 250295 | 20.9026 | ug/mL | 99 |
| 13) Benzyl alcoho | 4.548 | 108 | 156859 | 21.1764 | ug/mL | 97 |
| 14) bis2clispreth | 4.724 | 45 | 420139 | 20.8038 | ug/mL | 98 |
| 15) 2Methylphenol | 4.685 | 107 | 185817 | 20.8520 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.852 | 100 | 121305 | 21.8089 | ug/mL | 97 |
| 17) Acetophenone | 4.881 | 105 | 341071 | 21.4877 | ug/mL | 98 |
| 18) Hexaclethane | 5.008 | 117 | 102253 | 21.0868 | ug/mL | 97 |
| 19) N-Ntrsdinprop | 4.895 | 70 | 162188 | 20.7436 | ug/mL | 95 |
| 20) 3&4Methylphenol | 4.892 | 107 | 242292 | 21.1288 | ug/mL | 97 |
| 23) Nitrobenzene | 5.099 | 77 | 225280 | 21.6731 | ug/mL | 96 |
| 24) Isophorone | 5.460 | 82 | 477622 | 21.6215 | ug/mL | 97 |
| 25) 2-Nitrophenol | 5.565 | 139 | 151952 | 22.4814 | ug/mL | 99 |
| 26) 24Dimthpheno | 5.656 | 122 | 228652 | 21.1713 | ug/mL | 100 |
| 27) bis2clethoxym | 5.796 | 93 | 297030 | 21.7463 | ug/mL | 98 |
| 28) 24Diclphenol | 5.901 | 162 | 214217 | 21.8313 | ug/mL | 97 |
| 29) 124Triclbenz | 6.006 | 180 | 240521 | 21.8357 | ug/mL | 97 |
| 30) Benzoic acid | 5.801 | 122 | 110083 | 19.7005 | ug/mL | 94 |
| 31) Naphthalene | 6.100 | 128 | 781960 | 21.4598 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.182 | 127 | 291304 | 20.9920 | ug/mL | 99 |
| 33) 26Diclphenol | 6.188 | 162 | 214327 | 22.0471 | ug/mL | 97 |
| 34) Hexaclprop | 6.213 | 213 | 164189 | 22.2464 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.270 | 225 | 141012 | 21.6257 | ug/mL | 97 |
| 36) 4Cl3methylphe | 6.753 | 107 | 215721 | 21.6521 | ug/mL | 94 |
| 37) 2Methylnaphth | 6.884 | 142 | 470374 | 21.3667 | ug/mL | 96 |
| 38) 1Methylnaphth | 6.980 | 142 | 490819 | 21.3488 | ug/mL | 98 |
| 40) Hxclcycpentdi | 7.049 | 237 | 156237 | 22.2412 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICV1.D Vial: 10
Acq On : 7 Apr 2025 13:18 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:00:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

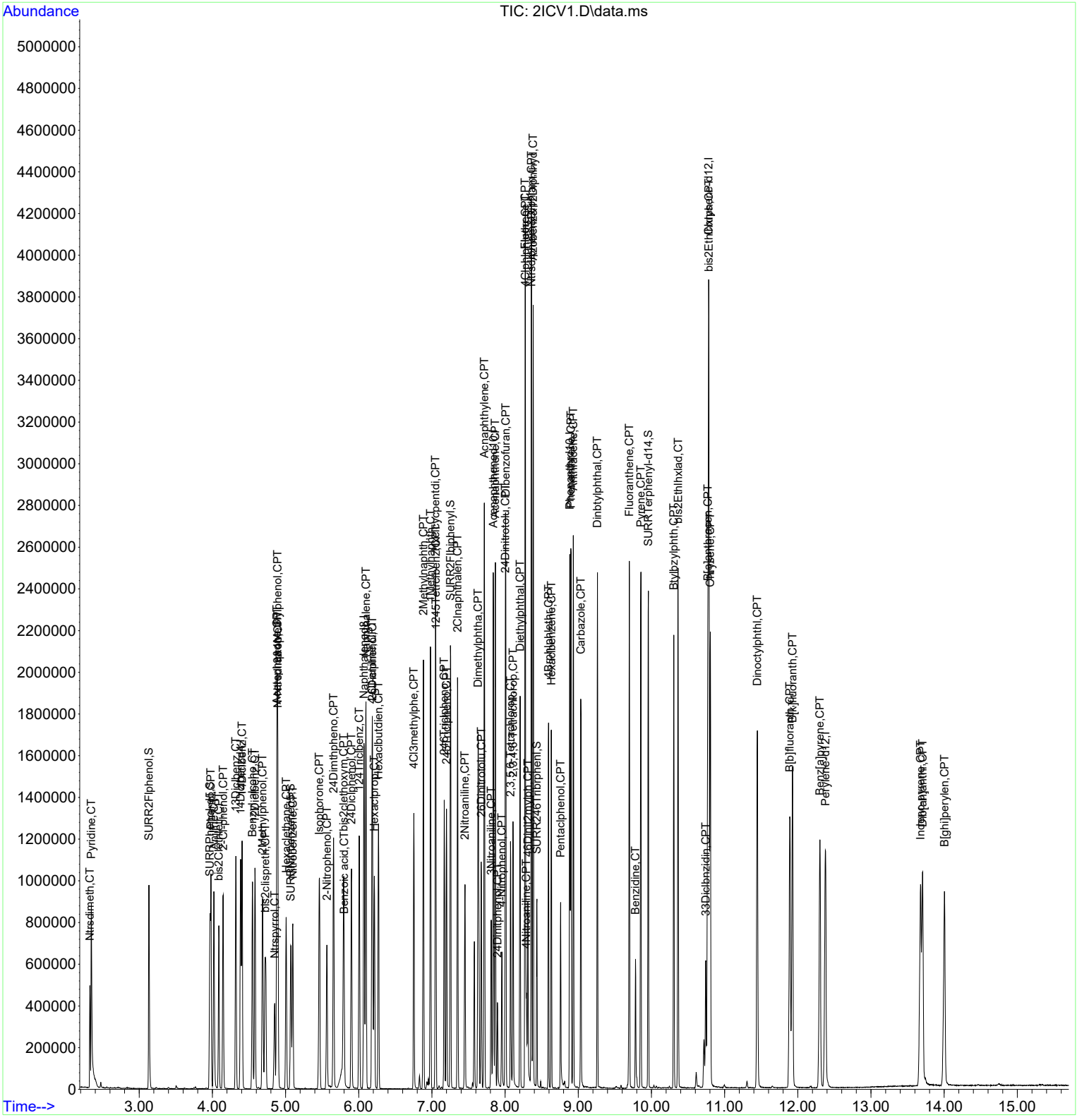
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.054 | 216 | 217248 | 21.9378 ug/mL | 97 |
| 42) 246Triclpheno | 7.168 | 196 | 146230 | 21.8729 ug/mL | 98 |
| 43) 245Triclpheno | 7.199 | 196 | 153161 | 21.5415 ug/mL | 97 |
| 45) 2Clnaphthalen | 7.350 | 162 | 472956 | 21.7320 ug/mL | 99 |
| 46) 2Nitroaniline | 7.452 | 65 | 140600 | 21.5621 ug/mL | 95 |
| 47) Acnaphthylene | 7.716 | 152 | 762967 | 21.6697 ug/mL | 99 |
| 48) Dimethylphtha | 7.631 | 163 | 549771 | 21.5910 ug/mL | 100 |
| 49) 26Dinitrotolu | 7.674 | 165 | 125299 | 21.8078 ug/mL | 99 |
| 50) Acenaphthene | 7.867 | 154 | 449115 | 21.5657 ug/mL | 99 |
| 51) 3Nitroaniline | 7.810 | 138 | 118982 | 20.8900 ug/mL | 99 |
| 52) 24Dinitphenol | 7.895 | 184 | 49408 | 19.9350 ug/mL | 98 |
| 53) Dibenzofuran | 8.009 | 168 | 649939 | 21.7419 ug/mL | 97 |
| 54) 24Dinitrotolu | 8.003 | 165 | 165875 | 22.1273 ug/mL | 97 |
| 55) 4-Nitrophenol | 7.955 | 65 | 82718 | 20.3732 ug/mL | 99 |
| 56) 2,3,5,6-Tetrachlorop | 8.074 | 232 | 112803 | 21.4298 ug/mL | 99 |
| 57) 2,3,4,6-Tetrachlorop | 8.108 | 232 | 123619 | 22.0950 ug/mL | 99 |
| 58) Fluorene | 8.273 | 166 | 494603 | 22.0289 ug/mL | 99 |
| 59) 4Clphlphlethr | 8.276 | 204 | 227829 | 21.5962 ug/mL | 99 |
| 60) Diethylphthal | 8.205 | 149 | 549531 | 21.8564 ug/mL | 99 |
| 61) 4Nitroaniline | 8.290 | 138 | 104449 | 20.7909 ug/mL | 98 |
| 64) 46Dinit2mylph | 8.310 | 198 | 78934 | 20.8552 ug/mL | 99 |
| 65) Ntrsdiphlam&Diphlam | 8.359 | 169 | 694666 | 44.1376 ug/mL | 98 |
| 66) Azobenz&12Diphlhyd | 8.384 | 182 | 248731 | 43.9809 ug/mL | 98 |
| 67) 4Brphlphlethr | 8.594 | 248 | 124339 | 21.5102 ug/mL | 98 |
| 68) Hexaclbenzene | 8.631 | 284 | 140854 | 21.5986 ug/mL | 100 |
| 69) Pentaclphenol | 8.759 | 266 | 63106 | 20.9608 ug/mL | 97 |
| 70) Phenanthrene | 8.901 | 178 | 653120 | 21.7906 ug/mL | 99 |
| 71) Anthracene | 8.933 | 178 | 669830 | 22.0230 ug/mL | 99 |
| 72) Carbazole | 9.035 | 167 | 541895 | 21.6812 ug/mL | 99 |
| 73) Dinbtylphthal | 9.262 | 149 | 826616 | 22.5271 ug/mL | 100 |
| 74) Fluoranthene | 9.697 | 202 | 704984 | 22.1542 ug/mL | 99 |
| 76) Benzidine | 9.782 | 184 | 165536 | 19.5179 ug/mL | 99 |
| 77) Pyrene | 9.856 | 202 | 734452 | 22.0810 ug/mL | 100 |
| 79) Btylbzylphth | 10.305 | 149 | 371590 | 21.7983 ug/mL | 100 |
| 80) bis2Ethlhxlad | 10.365 | 129 | 347258 | 21.8740 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.743 | 252 | 115608 | 20.0616 ug/mL | 99 |
| 82) B[a]anthracen | 10.771 | 228 | 672804 | 21.5585 ug/mL | 98 |
| 83) Chrysene | 10.805 | 228 | 629251 | 21.3775 ug/mL | 98 |
| 84) bis2Ethlhxlph | 10.785 | 149 | 559641 | 22.8130 ug/mL | 98 |
| 85) Dinoctylphthl | 11.447 | 149 | 920780 | 21.7916 ug/mL | 99 |
| 87) B[b]fluoranth | 11.890 | 252 | 622453 | 21.8324 ug/mL | 97 |
| 88) B[k]fluoranth | 11.927 | 252 | 656679 | 22.8420 ug/mL | 98 |
| 89) Benz[a]pyrene | 12.302 | 252 | 588718 | 22.1996 ug/mL | 99 |
| 90) Indeno-pyrene | 13.678 | 276 | 648599 | 22.1215 ug/mL | 98 |
| 91) Dib[ah]anthr | 13.706 | 278 | 532518 | 22.1432 ug/mL | 98 |
| 92) B[ghi]perylen | 14.004 | 276 | 501503 | 21.8591 ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICV1.D Vial: 10
Acq On : 7 Apr 2025 13:18 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:00:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040725\2ICV2.D Vial: 11
Acq On : 7 Apr 2025 13:41 Operator: JJY
Sample : ICV 40 ug/mL SVMS10289 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:03:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 2 | CT | Ntrsdimeth | 40.000 | 41.814 | -4.5 | 99 | 0.00 |
| 3 | CT | Pyridine | 40.000 | 41.736 | -4.3 | 100 | 0.00 |
| 4 | S | SURR2Flphenol | 100.000 | 103.359 | -3.4 | 100 | 0.00 |
| 5 | CT | Aniline | 40.000 | 41.833 | -4.6 | 100 | 0.00 |
| 6 | CPT | bis2Clethletr | 40.000 | 41.800 | -4.5 | 101 | 0.00 |
| 7 | S | SURRPhenol-d5 | 100.000 | 104.999 | -5.0 | 100 | 0.00 |
| 8 | CPT | Phenol | 40.000 | 42.037 | -5.1 | 100 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 40.000 | 42.535 | -6.3 | 101 | 0.00 |
| 10 | CT | 13Diclbenz | 40.000 | 41.239 | -3.1 | 101 | 0.00 |
| 11 | CT | 14Diclbenz | 40.000 | 40.760 | -1.9 | 100 | 0.00 |
| 12 | CT | 12Diclbenz | 40.000 | 41.379 | -3.4 | 101 | 0.00 |
| 13 | CT | Benzyl alcoho | 40.000 | 42.737 | -6.8 | 100 | 0.00 |
| 14 | CPT | bis2clispreth | 40.000 | 41.116 | -2.8 | 100 | 0.00 |
| 15 | CPT | 2Methylphenol | 40.000 | 41.396 | -3.5 | 99 | 0.00 |
| 16 | CT | Ntrspyrrol | 40.000 | 43.887 | -9.7 | 101 | 0.02 |
| 17 | CPT | Acetophenone | 40.000 | 42.445 | -6.1 | 102 | 0.00 |
| 18 | CPT | Hexaclethane | 40.000 | 42.549 | -6.4 | 102 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 40.000 | 41.107 | -2.8 | 100 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 40.000 | 41.608 | -4.0 | 101 | 0.01 |
| 21 | I | Naphthalened8 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 200.000 | 210.238 | -5.1 | 98 | 0.00 |
| 23 | CPT | Nitrobenzene | 40.000 | 42.502 | -6.3 | 100 | 0.00 |
| 24 | CPT | Isophorone | 40.000 | 42.594 | -6.5 | 100 | 0.01 |
| 25 | CPT | 2-Nitrophenol | 40.000 | 42.779 | -6.9 | 100 | 0.00 |
| 26 | CPT | 24Dimthpheno | 40.000 | 40.677 | -1.7 | 98 | 0.00 |
| 27 | CPT | bis2clethoxym | 40.000 | 41.981 | -5.0 | 100 | 0.00 |
| 28 | CPT | 24Diclphenol | 40.000 | 43.006 | -7.5 | 100 | 0.00 |
| 29 | CT | 124Triclbenz | 40.000 | 41.500 | -3.8 | 100 | 0.00 |
| 30 | CT | Benzoic acid | 40.000 | 40.967 | -2.4 | 97 | 0.06 |
| 31 | CPT | Naphthalene | 40.000 | 40.344 | -0.9 | 100 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 40.000 | 43.457 | -8.6 | 101 | 0.00 |
| 33 | CT | 26Diclphenol | 40.000 | 42.472 | -6.2 | 102 | 0.00 |
| 34 | CT | Hexaclprop | 40.000 | 43.864 | -9.7 | 101 | 0.00 |
| 35 | CPT | Hexaclbutdien | 40.000 | 41.603 | -4.0 | 101 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 40.000 | 42.935 | -7.3 | 100 | 0.00 |
| 37 | CPT | 2Methylnaphth | 40.000 | 40.949 | -2.4 | 100 | 0.00 |
| 38 | CT | 1Methylnaphth | 40.000 | 40.153 | -0.4 | 99 | 0.00 |
| 39 | I | Acenaphthened10 | 20.000 | 20.000 | 0.0 | 92 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 40.000 | 44.520 | -11.3 | 101 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 40.000 | 41.516 | -3.8 | 101 | 0.00 |
| 42 | CPT | 246Triclpheno | 40.000 | 43.878 | -9.7 | 100 | 0.00 |
| 43 | CPT | 245Triclpheno | 40.000 | 43.529 | -8.8 | 98 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 200.000 | 203.920 | -2.0 | 99 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 40.000 | 42.057 | -5.1 | 100 | 0.00 |
| 46 | CPT | 2Nitroaniline | 40.000 | 42.078 | -5.2 | 98 | 0.00 |
| 47 | CPT | Acnaphthylene | 40.000 | 40.430 | -1.1 | 99 | 0.00 |
| 48 | CPT | Dimethylphtha | 40.000 | 41.600 | -4.0 | 100 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 40.000 | 43.755 | -9.4 | 98 | 0.00 |
| 50 | CPT | Acenaphthene | 40.000 | 41.345 | -3.4 | 99 | 0.00 |
| 51 | CPT | 3Nitroaniline | 40.000 | 42.284 | -5.7 | 98 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040725\2ICV2.D Vial: 11
Acq On : 7 Apr 2025 13:41 Operator: JJY
Sample : ICV 40 ug/mL SVMS10289 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:03:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 40.000 | 42.127 | -5.3 | 95 | 0.00 |
| 53 | CPT | Dibenzofuran | 40.000 | 40.233 | -0.6 | 99 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 40.000 | 44.318 | -10.8 | 99 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 40.000 | 41.039 | -2.6 | 94 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 40.000 | 42.646 | -6.6 | 100 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 40.000 | 42.817 | -7.0 | 100 | 0.00 |
| 58 | CPT | Fluorene | 40.000 | 40.160 | -0.4 | 100 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 40.000 | 39.787 | 0.5 | 99 | 0.00 |
| 60 | CPT | Diethylphthal | 40.000 | 42.108 | -5.3 | 98 | 0.00 |
| 61 | CPT | 4Nitroaniline | 40.000 | 41.897 | -4.7 | 96 | 0.01 |
| 62 | S | SURR246Tribrphenl | 100.000 | 106.435 | -6.4 | 96 | 0.00 |
| 63 | I | Phenanthrd10 | 20.000 | 20.000 | 0.0 | 93 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 40.000 | 42.283 | -5.7 | 99 | 0.01 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 80.000 | 85.828 | -7.3 | 100 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 80.000 | 85.882 | -7.4 | 100 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 40.000 | 40.446 | -1.1 | 97 | 0.00 |
| 68 | CPT | Hexaclbenzene | 40.000 | 40.923 | -2.3 | 99 | 0.00 |
| 69 | CPT | Pentaclphenol | 40.000 | 42.882 | -7.2 | 102 | 0.00 |
| 70 | CPT | Phenanthrene | 40.000 | 39.862 | 0.3 | 98 | 0.00 |
| 71 | CPT | Anthracene | 40.000 | 40.233 | -0.6 | 98 | 0.00 |
| 72 | CPT | Carbazole | 40.000 | 42.475 | -6.2 | 98 | 0.00 |
| 73 | CPT | Dinbtylphthal | 40.000 | 41.336 | -3.3 | 99 | 0.00 |
| 74 | CPT | Fluoranthene | 40.000 | 40.417 | -1.0 | 98 | 0.00 |
| 75 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 91 | 0.00 |
| 76 | CT | Benzidine | 40.000 | 42.995 | -7.5 | 99 | 0.00 |
| 77 | CPT | Pyrene | 40.000 | 42.097 | -5.2 | 98 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 200.000 | 213.101 | -6.6 | 96 | 0.00 |
| 79 | CPT | Btylbzylphth | 40.000 | 42.884 | -7.2 | 99 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 40.000 | 42.437 | -6.1 | 98 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 40.000 | 42.214 | -5.5 | 96 | 0.00 |
| 82 | CPT | B[a]anthracen | 40.000 | 42.635 | -6.6 | 97 | 0.00 |
| 83 | CPT | Chrysene | 40.000 | 42.680 | -6.7 | 97 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 40.000 | 44.607 | -11.5 | 99 | 0.00 |
| 85 | CPT | Dinoctylphthl | 40.000 | 42.328 | -5.8 | 98 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 89 | 0.00 |
| 87 | CPT | B[b]fluoranth | 40.000 | 42.976 | -7.4 | 96 | 0.00 |
| 88 | CPT | B[k]fluoranth | 40.000 | 43.158 | -7.9 | 97 | 0.01 |
| 89 | CPT | Benz[a]pyrene | 40.000 | 43.317 | -8.3 | 94 | 0.00 |
| 90 | CPT | Indeno-pyrene | 40.000 | 43.739 | -9.3 | 93 | 0.01 |
| 91 | CPT | Dib[ah]anthr | 40.000 | 43.966 | -9.9 | 93 | 0.01 |
| 92 | CPT | B[ghi]perylen | 40.000 | 43.247 | -8.1 | 91 | 0.01 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICV2.D Vial: 11
Acq On : 7 Apr 2025 13:41 Operator: JJY
Sample : ICV 40 ug/mL SVMS10289 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:03:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 173302 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.074 | 136 | 825893 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.841 | 164 | 452405 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 652474 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.785 | 240 | 522015 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.385 | 264 | 571938 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.136 | 112 | 440690 | 103.36 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 103.36% | | | |
| 7) SURRPhenol-d5 | 3.974 | 99 | 536318 | 105.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 105.00% | | | |
| 22) SURRNitrbenzened5 | 5.079 | 82 | 469397 | 210.24 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 210.24% | | | |
| 44) SURR2Flbiphenyl | 7.259 | 172 | 1094292 | 203.92 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 203.92% | | | |
| 62) SURR246Tribrphenl | 8.438 | 330 | 123895 | 106.44 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 106.44% | | | |
| 78) SURRTerphenyl-d14 | 9.961 | 244 | 1082426 | 213.10 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 213.10% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.329 | 74 | 287290 | 41.8136 | ug/mL | 96 |
| 3) Pyridine | 2.346 | 79 | 507480 | 41.7363 | ug/mL | 98 |
| 5) Aniline | 4.025 | 93 | 679296 | 41.8329 | ug/mL | 99 |
| 6) bis2Clethletr | 4.093 | 93 | 446980 | 41.7997 | ug/mL | 98 |
| 8) Phenol | 3.988 | 94 | 544411 | 42.0366 | ug/mL | 97 |
| 9) 2-Cl-phenol | 4.150 | 128 | 494166 | 42.5354 | ug/mL | 98 |
| 10) 13Diclbenz | 4.324 | 146 | 527012 | 41.2389 | ug/mL | 99 |
| 11) 14Diclbenz | 4.409 | 146 | 527390 | 40.7602 | ug/mL | 98 |
| 12) 12Diclbenz | 4.585 | 146 | 505545 | 41.3791 | ug/mL | 99 |
| 13) Benzyl alcoho | 4.557 | 108 | 322993 | 42.7374 | ug/mL | 97 |
| 14) bis2clispreth | 4.727 | 45 | 847215 | 41.1165 | ug/mL | 99 |
| 15) 2Methylphenol | 4.693 | 107 | 376382 | 41.3964 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.869 | 100 | 249060 | 43.8865 | ug/mL | 99 |
| 17) Acetophenone | 4.889 | 105 | 687398 | 42.4448 | ug/mL | 97 |
| 18) Hexaclethane | 5.008 | 117 | 210515 | 42.5490 | ug/mL | 96 |
| 19) N-Ntrsdinprop | 4.903 | 70 | 327929 | 41.1072 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.903 | 107 | 486819 | 41.6079 | ug/mL | 92 |
| 23) Nitrobenzene | 5.108 | 77 | 463294 | 42.5017 | ug/mL | 99 |
| 24) Isophorone | 5.474 | 82 | 986722 | 42.5940 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.571 | 139 | 303222 | 42.7788 | ug/mL | 98 |
| 26) 24Dimthpheno | 5.665 | 122 | 460707 | 40.6771 | ug/mL | 98 |
| 27) bis2clethoxym | 5.801 | 93 | 601340 | 41.9813 | ug/mL | 98 |
| 28) 24Diclphenol | 5.906 | 162 | 442535 | 43.0057 | ug/mL | 99 |
| 29) 124Triclbenz | 6.011 | 180 | 479381 | 41.4999 | ug/mL | 97 |
| 30) Benzoic acid | 5.864 | 122 | 277930 | 40.9667 | ug/mL | 97 |
| 31) Naphthalene | 6.102 | 128 | 1541649 | 40.3438 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.188 | 127 | 632415 | 43.4572 | ug/mL | 97 |
| 33) 26Diclphenol | 6.193 | 162 | 432990 | 42.4721 | ug/mL | 98 |
| 34) Hexaclprop | 6.216 | 213 | 339501 | 43.8640 | ug/mL | 98 |
| 35) Hexaclbutdien | 6.273 | 225 | 284484 | 41.6030 | ug/mL | 98 |
| 36) 4Cl3methylphe | 6.759 | 107 | 448593 | 42.9350 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.887 | 142 | 945369 | 40.9493 | ug/mL | 97 |
| 38) 1Methylnaphth | 6.983 | 142 | 968084 | 40.1529 | ug/mL | 98 |
| 40) Hxclcycpentdi | 7.051 | 237 | 325362 | 44.5199 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICV2.D Vial: 11
Acq On : 7 Apr 2025 13:41 Operator: JJY
Sample : ICV 40 ug/mL SVMS10289 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:03:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

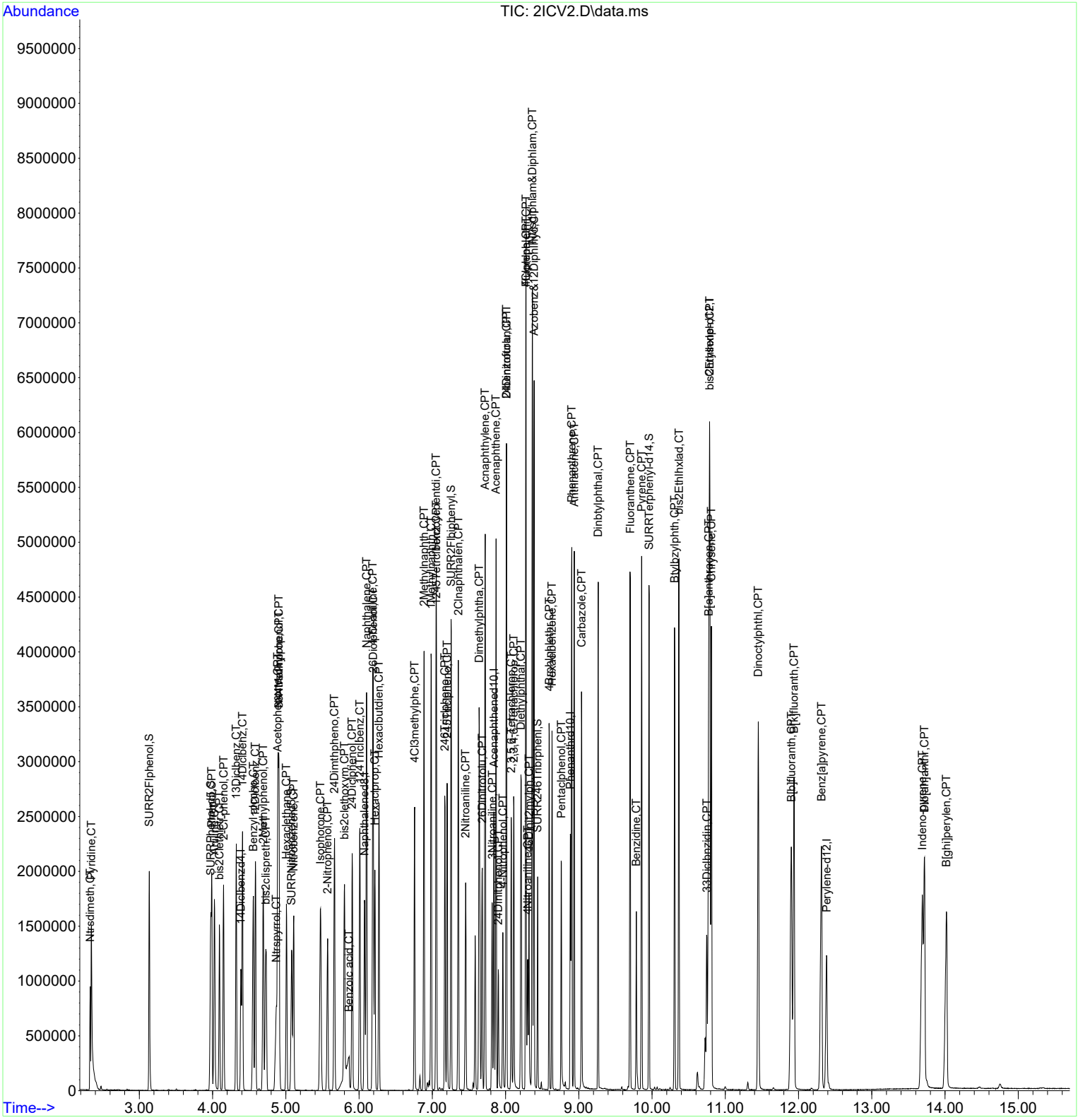
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.057 | 216 | 427729 | 41.5163 | ug/mL | 99 |
| 42) 246Triclpheno | 7.171 | 196 | 305185 | 43.8779 | ug/mL | 100 |
| 43) 245Triclpheno | 7.202 | 196 | 321990 | 43.5293 | ug/mL | 97 |
| 45) 2Clnaphthalen | 7.355 | 162 | 952235 | 42.0568 | ug/mL | 97 |
| 46) 2Nitroaniline | 7.455 | 65 | 297387 | 42.0775 | ug/mL | 99 |
| 47) Acnaphthylene | 7.722 | 152 | 1480975 | 40.4303 | ug/mL | 99 |
| 48) Dimethylphtha | 7.640 | 163 | 1102027 | 41.6003 | ug/mL | 99 |
| 49) 26Dinitrotolu | 7.682 | 165 | 261547 | 43.7549 | ug/mL | 96 |
| 50) Acenaphthene | 7.870 | 154 | 895799 | 41.3455 | ug/mL | 97 |
| 51) 3Nitroaniline | 7.819 | 138 | 264521 | 42.2836 | ug/mL | 97 |
| 52) 24Dinitphenol | 7.901 | 184 | 132049 | 42.1273 | ug/mL | 98 |
| 53) Dibenzofuran | 8.012 | 168 | 1251249 | 40.2328 | ug/mL | 95 |
| 54) 24Dinitrotolu | 8.012 | 165 | 345640 | 44.3184 | ug/mL | 91 |
| 55) 4-Nitrophenol | 7.963 | 65 | 183627 | 41.0390 | ug/mL | 96 |
| 56) 2,3,5,6-Tetrachlorop | 8.077 | 232 | 246403 | 42.6463 | ug/mL | 97 |
| 57) 2,3,4,6-Tetrachlorop | 8.114 | 232 | 254057 | 42.8169 | ug/mL | 98 |
| 58) Fluorene | 8.279 | 166 | 938098 | 40.1603 | ug/mL | 99 |
| 59) 4Clphlphlethr | 8.279 | 204 | 436682 | 39.7874 | ug/mL | 99 |
| 60) Diethylphthal | 8.211 | 149 | 1101453 | 42.1080 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.302 | 138 | 218978 | 41.8968 | ug/mL | 90 |
| 64) 46Dinit2mylph | 8.321 | 198 | 180767 | 42.2833 | ug/mL | 98 |
| 65) Ntrsdiphlam&Diphlam | 8.367 | 169 | 1334127 | 85.8275 | ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.390 | 182 | 487481 | 85.8819 | ug/mL | 93 |
| 67) 4Brphlphlethr | 8.597 | 248 | 248391 | 40.4462 | ug/mL | 97 |
| 68) Hexaclbenzene | 8.634 | 284 | 283533 | 40.9227 | ug/mL | 97 |
| 69) Pentaclphenol | 8.762 | 266 | 153857 | 42.8820 | ug/mL | 98 |
| 70) Phenanthrene | 8.904 | 178 | 1269328 | 39.8616 | ug/mL | 98 |
| 71) Anthracene | 8.938 | 178 | 1300074 | 40.2331 | ug/mL | 98 |
| 72) Carbazole | 9.038 | 167 | 1041953 | 42.4749 | ug/mL | 98 |
| 73) Dinbtylphthal | 9.265 | 149 | 1611485 | 41.3363 | ug/mL | 98 |
| 74) Fluoranthene | 9.702 | 202 | 1366412 | 40.4169 | ug/mL | 98 |
| 76) Benzidine | 9.785 | 184 | 422896 | 42.9951 | ug/mL | 99 |
| 77) Pyrene | 9.859 | 202 | 1403293 | 42.0966 | ug/mL | 98 |
| 79) Btylbzylphth | 10.308 | 149 | 763406 | 42.8844 | ug/mL | 100 |
| 80) bis2Ethlhxlad | 10.367 | 129 | 694939 | 42.4373 | ug/mL | 98 |
| 81) 33Diclbnzidin | 10.748 | 252 | 269421 | 42.2136 | ug/mL | 97 |
| 82) B[a]anthracen | 10.774 | 228 | 1333480 | 42.6345 | ug/mL | 99 |
| 83) Chrysene | 10.811 | 228 | 1259079 | 42.6805 | ug/mL | 98 |
| 84) bis2Ethlhxlph | 10.788 | 149 | 1096689 | 44.6066 | ug/mL | 99 |
| 85) Dinoctylphthl | 11.450 | 149 | 1880360 | 42.3276 | ug/mL | 99 |
| 87) B[b]fluoranth | 11.902 | 252 | 1286178 | 42.9757 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.939 | 252 | 1302423 | 43.1578 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.314 | 252 | 1205852 | 43.3169 | ug/mL | 99 |
| 90) Indeno-pyrene | 13.689 | 276 | 1346173 | 43.7387 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.720 | 278 | 1109905 | 43.9660 | ug/mL | 99 |
| 92) B[ghi]perylen | 14.019 | 276 | 1041535 | 43.2473 | ug/mL | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICV2.D Vial: 11
Acq On : 7 Apr 2025 13:41 Operator: JJY
Sample : ICV 40 ug/mL SVMS10289 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 14:03:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL1.D Vial: 9
Acq On : 7 Apr 2025 12:54 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:51:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M re-quanted with new ical
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 173860 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.068 | 136 | 824788 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.836 | 164 | 458044 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 651443 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.776 | 240 | 578280 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.376 | 264 | 600569 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.133 | 112 | 10384 | 2.43 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.43% | | | |
| 7) SURRPhenol-d5 | 3.960 | 99 | 12227 | 2.39 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.39% | | | |
| 22) SURRNitrbenzened5 | 5.065 | 82 | 10580 | 4.75 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.75% | | | |
| 44) SURR2Flbiphenyl | 7.250 | 172 | 29331 | 5.40 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.40% | | | |
| 62) SURR246Tribrphenl | 8.429 | 330 | 2718 | 2.31 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.31% | | | |
| 78) SURRTerphenyl-d14 | 9.955 | 244 | 27268 | 4.85 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.85% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.332 | 74 | 6613 | 0.9594 | ug/mL | 92 |
| 3) Pyridine | 2.360 | 79 | 12191 | 0.9994 | ug/mL | 97 |
| 5) Aniline | 4.017 | 93 | 16047 | 0.9850 | ug/mL | 99 |
| 6) bis2Clethletr | 4.082 | 93 | 10675 | 0.9951 | ug/mL | 93 |
| 8) Phenol | 3.974 | 94 | 12178 | 0.9373 | ug/mL | 96 |
| 9) 2-Cl-phenol | 4.145 | 128 | 10976 | 0.9417 | ug/mL | 98 |
| 10) 13Diclbenz | 4.318 | 146 | 13140 | 1.0249 | ug/mL | 98 |
| 11) 14Diclbenz | 4.403 | 146 | 13624 | 1.0496 | ug/mL | 97 |
| 12) 12Diclbenz | 4.579 | 146 | 12593 | 1.0274 | ug/mL | 94 |
| 13) Benzyl alcoho | 4.542 | 108 | 6850 | 0.9035 | ug/mL | 95 |
| 14) bis2clispreth | 4.721 | 45 | 21599 | 1.0449 | ug/mL | 95 |
| 15) 2Methylphenol | 4.682 | 107 | 8719 | 0.9559 | ug/mL | 97 |
| 16) Ntrspyrrol | 4.832 | 100 | 4961 | 0.8714 | ug/mL | 82 |
| 17) Acetophenone | 4.872 | 105 | 15778 | 0.9711 | ug/mL | 92 |
| 18) Hexaclethane | 5.005 | 117 | 5158 | 1.0392 | ug/mL | 85 |
| 19) N-Ntrsdinprop | 4.880 | 70 | 8209 | 1.0257 | ug/mL | 92 |
| 20) 3&4Methylphenol | 4.883 | 107 | 11399 | 0.9711 | ug/mL | 93 |
| 23) Nitrobenzene | 5.091 | 77 | 10491 | 0.9637 | ug/mL | 94 |
| 24) Isophorone | 5.452 | 82 | 21693 | 0.9377 | ug/mL | 94 |
| 25) 2-Nitrophenol | 5.560 | 139 | 5936 | 0.8386 | ug/mL | 95 |
| 26) 24Dimthpheno | 5.648 | 122 | 11294 | 0.9985 | ug/mL | 87 |
| 27) bis2clethoxym | 5.790 | 93 | 14100 | 0.9857 | ug/mL | 96 |
| 28) 24Diclphenol | 5.895 | 162 | 9425 | 0.9172 | ug/mL | 94 |
| 29) 124Triclbenz | 6.003 | 180 | 11475 | 0.9947 | ug/mL | 95 |
| 30) Benzoic acid | 0.000 | | 0 | N.D. | | |
| 31) Naphthalene | 6.094 | 128 | 41268 | 1.0814 | ug/mL | 97 |
| 32) 4-Cl-aniline | 6.176 | 127 | 13810 | 0.9502 | ug/mL | 95 |
| 33) 26Diclphenol | 6.182 | 162 | 9814 | 0.9639 | ug/mL | 91 |
| 34) Hexaclprop | 6.210 | 213 | 7073 | 0.9151 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.267 | 225 | 6934 | 1.0154 | ug/mL | 96 |
| 36) 4Cl3methylphe | 6.750 | 107 | 9488 | 0.9093 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.881 | 142 | 23691 | 1.0276 | ug/mL | 91 |
| 38) 1Methylnaphth | 6.977 | 142 | 25407 | 1.0552 | ug/mL | 98 |
| 40) Hxclcycpentdi | 7.048 | 237 | 6249 | 0.8445 | ug/mL | 96 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL1.D Vial: 9
Acq On : 7 Apr 2025 12:54 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:51:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

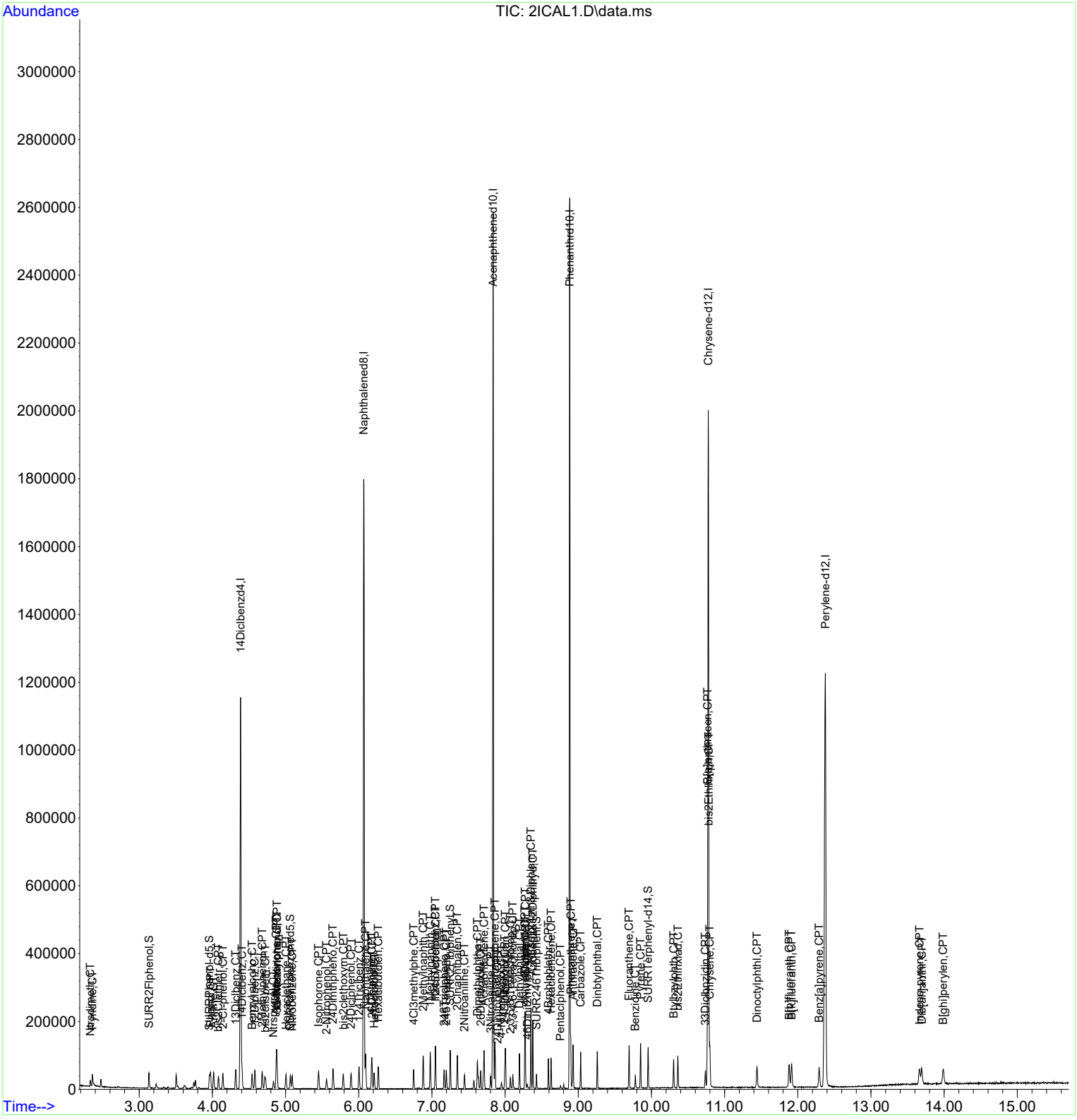
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.048 | 216 | 11402 | 1.0931 ug/mL | 93 |
| 42) 246Triclpheno | 7.168 | 196 | 6512 | 0.9247 ug/mL | 96 |
| 43) 245Triclpheno | 7.196 | 196 | 6751 | 0.9014 ug/mL | 95 |
| 45) 2Clnaphthalen | 7.347 | 162 | 23806 | 1.0385 ug/mL | 97 |
| 46) 2Nitroaniline | 7.443 | 65 | 5248 | 1.0293 ug/mL | 93 |
| 47) Acnaphthylene | 7.713 | 152 | 38239 | 1.0311 ug/mL | 98 |
| 48) Dimethylphtha | 7.622 | 163 | 27391 | 1.0212 ug/mL | 98 |
| 49) 26Dinitrotolu | 7.668 | 165 | 5382 | 0.8893 ug/mL | 91 |
| 50) Acenaphthene | 7.861 | 154 | 22971 | 1.0472 ug/mL | 99 |
| 51) 3Nitroaniline | 7.804 | 138 | 4989 | 0.9489 ug/mL | 85 |
| 52) 24Dinitphenol | 7.895 | 184 | 70 | 3.4691 ug/mL# | 1 |
| 53) Dibenzofuran | 8.003 | 168 | 33614 | 1.0675 ug/mL | 98 |
| 54) 24Dinitrotolu | 7.995 | 165 | 6503 | 0.8236 ug/mL | 94 |
| 55) 4-Nitrophenol | 7.949 | 65 | 2562 | 1.6989 ug/mL | 94 |
| 56) 2,3,5,6-Tetrachlorop | 8.074 | 232 | 3437 | 1.0513 ug/mL | 96 |
| 57) 2,3,4,6-Tetrachlorop | 8.105 | 232 | 3730 | 1.0110 ug/mL# | 83 |
| 58) Fluorene | 8.270 | 166 | 25869 | 1.0938 ug/mL | 93 |
| 59) 4Clphlphlethr | 8.276 | 204 | 12535 | 1.1280 ug/mL | 92 |
| 60) Diethylphthal | 8.196 | 149 | 26324 | 0.9940 ug/mL | 100 |
| 61) 4Nitroaniline | 8.279 | 138 | 4837 | 0.9141 ug/mL | 95 |
| 64) 46Dinit2mylph | 8.304 | 198 | 1265 | 2.2132 ug/mL | 84 |
| 65) Ntrsdiphlam&Diphlam | 8.353 | 169 | 36319 | 1.9863 ug/mL | 98 |
| 66) Azobenz&12Diphlhyd | 8.378 | 182 | 13305 | 2.0368 ug/mL# | 87 |
| 67) 4Brphlphlethr | 8.591 | 248 | 6274 | 1.0232 ug/mL | 93 |
| 68) Hexaclbenzene | 8.628 | 284 | 7435 | 1.0748 ug/mL | 97 |
| 69) Pentaclphenol | 8.756 | 266 | 835 | 2.8682 ug/mL | 81 |
| 70) Phenanthrene | 8.898 | 178 | 34555 | 1.0869 ug/mL | 98 |
| 71) Anthracene | 8.930 | 178 | 33705 | 1.0447 ug/mL | 96 |
| 72) Carbazole | 9.032 | 167 | 29042 | 0.9552 ug/mL | 98 |
| 73) Dinbtylphthal | 9.259 | 149 | 37082 | 0.9527 ug/mL | 97 |
| 74) Fluoranthene | 9.694 | 202 | 34762 | 1.0298 ug/mL | 95 |
| 76) Benzidine | 9.779 | 184 | 10586 | 0.8018 ug/mL | 95 |
| 77) Pyrene | 9.853 | 202 | 36578 | 0.9905 ug/mL | 98 |
| 79) Btylbzylphth | 10.305 | 149 | 14495 | 1.0447 ug/mL | 89 |
| 80) bis2Ethlhxlad | 10.362 | 129 | 13569 | 1.0410 ug/mL | 95 |
| 81) 33Diclbnzidin | 10.737 | 252 | 9782 | 0.7590 ug/mL | 96 |
| 82) B[a]anthracen | 10.768 | 228 | 34560 | 0.9975 ug/mL | 96 |
| 83) Chrysene | 10.796 | 228 | 33254 | 1.0176 ug/mL | 96 |
| 84) bis2Ethlhxlph | 10.785 | 149 | 23324 | 0.8564 ug/mL | 97 |
| 85) Dinoctylphthl | 11.444 | 149 | 32608 | 1.0473 ug/mL | 97 |
| 87) B[b]fluoranth | 11.882 | 252 | 28704 | 0.9134 ug/mL | 98 |
| 88) B[k]fluoranth | 11.916 | 252 | 31318 | 0.9883 ug/mL | 91 |
| 89) Benz[a]pyrene | 12.291 | 252 | 26799 | 0.9168 ug/mL | 98 |
| 90) Indeno-pyrene | 13.663 | 276 | 28804 | 0.8913 ug/mL | 96 |
| 91) Dib[ah]anthr | 13.695 | 278 | 22778 | 0.8593 ug/mL | 98 |
| 92) B[ghi]perylen | 13.987 | 276 | 22919 | 0.9063 ug/mL | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL1.D Vial: 9
Acq On : 7 Apr 2025 12:54 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:51:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL2.D Vial: 8
Acq On : 7 Apr 2025 12:31 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:53:30 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M re-quanted with new ical
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 182466 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.071 | 136 | 859004 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.838 | 164 | 481537 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 684269 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.779 | 240 | 603820 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.373 | 264 | 627022 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.133 | 112 | 56358 | 12.55 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.55% | | | |
| 7) SURRPhenol-d5 | 3.960 | 99 | 66958 | 12.45 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.45% | | | |
| 22) SURRNitrbenzened5 | 5.068 | 82 | 57548 | 24.78 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 24.78% | | | |
| 44) SURR2Flbiphenyl | 7.253 | 172 | 145646 | 25.50 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 25.50% | | | |
| 62) SURR246Tribrphenl | 8.429 | 330 | 15256 | 12.31 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.31% | | | |
| 78) SURRTerphenyl-d14 | 9.955 | 244 | 145286 | 24.73 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 24.73% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.326 | 74 | 35936 | 4.9676 | ug/mL | 96 |
| 3) Pyridine | 2.349 | 79 | 63489 | 4.9592 | ug/mL | 94 |
| 5) Aniline | 4.017 | 93 | 83799 | 4.9014 | ug/mL | 100 |
| 6) bis2Clethletr | 4.085 | 93 | 55077 | 4.8919 | ug/mL | 99 |
| 8) Phenol | 3.974 | 94 | 68216 | 5.0027 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.142 | 128 | 61042 | 4.9903 | ug/mL | 94 |
| 10) 13Diclbenz | 4.318 | 146 | 69395 | 5.1575 | ug/mL | 96 |
| 11) 14Diclbenz | 4.403 | 146 | 68872 | 5.0555 | ug/mL | 99 |
| 12) 12Diclbenz | 4.579 | 146 | 64555 | 5.0185 | ug/mL | 99 |
| 13) Benzyl alcoho | 4.542 | 108 | 38286 | 4.8115 | ug/mL | 97 |
| 14) bis2clispreth | 4.719 | 45 | 107234 | 4.9428 | ug/mL | 99 |
| 15) 2Methylphenol | 4.682 | 107 | 48022 | 5.0164 | ug/mL | 95 |
| 16) Ntrspyrrol | 4.838 | 100 | 28616 | 4.7891 | ug/mL | 95 |
| 17) Acetophenone | 4.875 | 105 | 86299 | 5.0611 | ug/mL | 92 |
| 18) Hexaclethane | 5.005 | 117 | 25562 | 4.9071 | ug/mL | 97 |
| 19) N-Ntrsdinprop | 4.883 | 70 | 42094 | 5.0116 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.883 | 107 | 62579 | 5.0799 | ug/mL | 93 |
| 23) Nitrobenzene | 5.091 | 77 | 56722 | 5.0030 | ug/mL | 97 |
| 24) Isophorone | 5.454 | 82 | 119347 | 4.9533 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.560 | 139 | 35720 | 4.8452 | ug/mL | 99 |
| 26) 24Dimthpheno | 5.651 | 122 | 60308 | 5.1195 | ug/mL | 97 |
| 27) bis2clethoxym | 5.790 | 93 | 75450 | 5.0644 | ug/mL | 100 |
| 28) 24Diclphenol | 5.895 | 162 | 52703 | 4.9243 | ug/mL | 100 |
| 29) 124Triclbenz | 6.006 | 180 | 61443 | 5.1141 | ug/mL | 95 |
| 30) Benzoic acid | 5.739 | 122 | 13816 | 5.1944 | ug/mL | 88 |
| 31) Naphthalene | 6.097 | 128 | 204167 | 5.1370 | ug/mL | 98 |
| 32) 4-Cl-aniline | 6.176 | 127 | 77270 | 5.1050 | ug/mL | 98 |
| 33) 26Diclphenol | 6.182 | 162 | 55493 | 5.2335 | ug/mL | 90 |
| 34) Hexaclprop | 6.210 | 213 | 39303 | 4.8823 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.267 | 225 | 37083 | 5.2140 | ug/mL | 94 |
| 36) 4Cl3methylphe | 6.750 | 107 | 53807 | 4.9514 | ug/mL | 93 |
| 37) 2Methylnaphth | 6.881 | 142 | 123468 | 5.1420 | ug/mL | 97 |
| 38) 1Methylnaphth | 6.977 | 142 | 129378 | 5.1593 | ug/mL | 99 |
| 40) Hxclcycpentdi | 7.048 | 237 | 38423 | 4.9394 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL2.D Vial: 8
Acq On : 7 Apr 2025 12:31 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:53:30 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

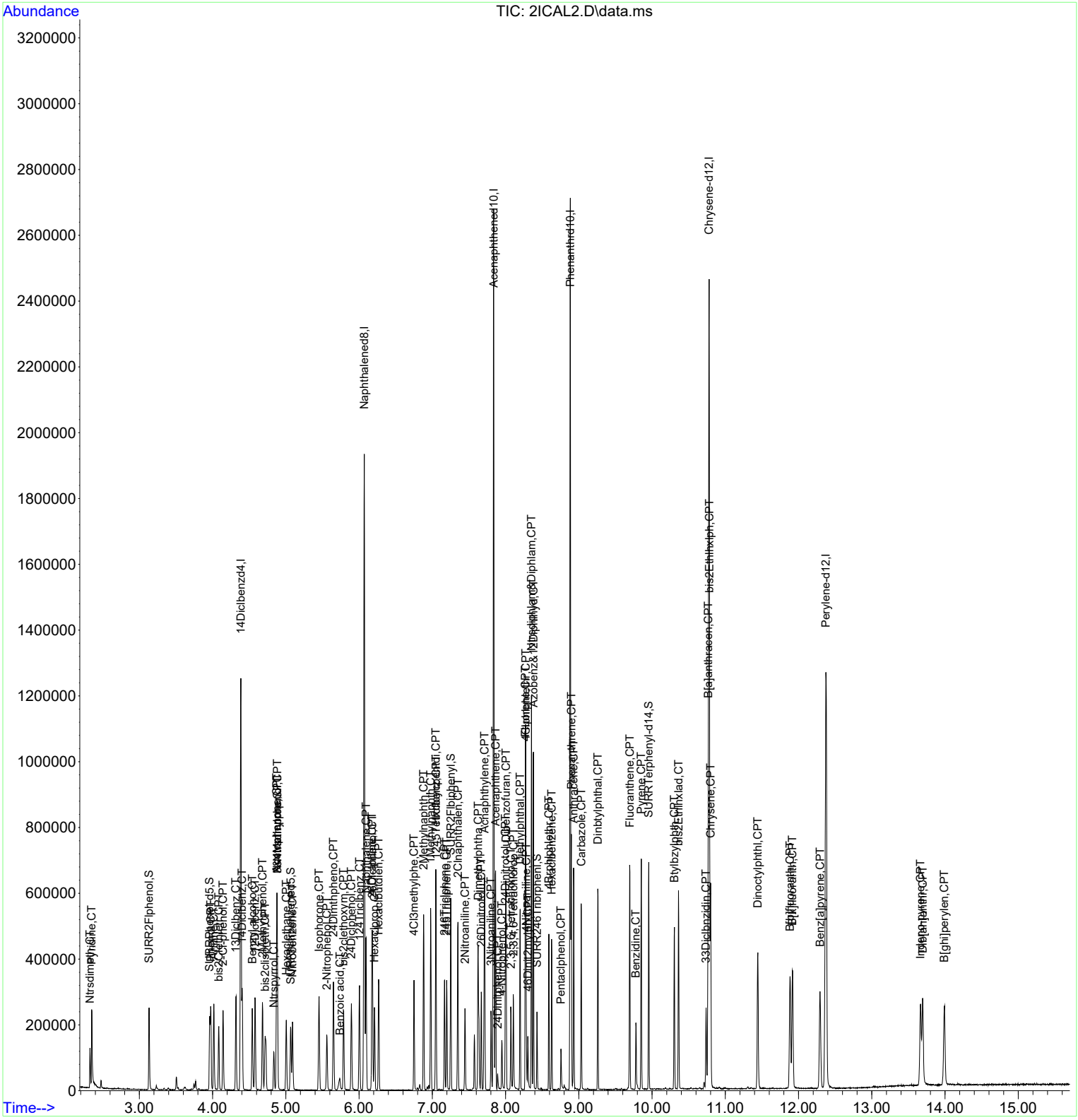
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.051 | 216 | 55270 | 5.0401 ug/mL | 97 |
| 42) 246Triclpheno | 7.168 | 196 | 36568 | 4.9395 ug/mL | 97 |
| 43) 245Triclpheno | 7.196 | 196 | 39394 | 5.0034 ug/mL | 91 |
| 45) 2Clnaphthalen | 7.350 | 162 | 121840 | 5.0557 ug/mL | 98 |
| 46) 2Nitroaniline | 7.446 | 65 | 33223 | 4.9310 ug/mL | 94 |
| 47) Acnaphthylene | 7.713 | 152 | 205259 | 5.2645 ug/mL | 98 |
| 48) Dimethylphtha | 7.625 | 163 | 144152 | 5.1124 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.668 | 165 | 31730 | 4.9871 ug/mL | 96 |
| 50) Acenaphthene | 7.864 | 154 | 118843 | 5.1533 ug/mL | 97 |
| 51) 3Nitroaniline | 7.801 | 138 | 31989 | 5.3356 ug/mL | 89 |
| 52) 24Dinitphenol | 7.892 | 184 | 5724 | 5.2859 ug/mL | 90 |
| 53) Dibenzofuran | 8.006 | 168 | 174916 | 5.2840 ug/mL | 99 |
| 54) 24Dinitrotolu | 7.998 | 165 | 42118 | 5.0737 ug/mL | 90 |
| 55) 4-Nitrophenol | 7.949 | 65 | 18542 | 5.1013 ug/mL | 89 |
| 56) 2,3,5,6-Tetrachlorop | 8.074 | 232 | 25169 | 4.8041 ug/mL | 97 |
| 57) 2,3,4,6-Tetrachlorop | 8.108 | 232 | 28998 | 5.0228 ug/mL | 95 |
| 58) Fluorene | 8.270 | 166 | 130964 | 5.2674 ug/mL | 98 |
| 59) 4Clphlphlethr | 8.276 | 204 | 61395 | 5.2555 ug/mL | 93 |
| 60) Diethylphthal | 8.199 | 149 | 140604 | 5.0500 ug/mL | 99 |
| 61) 4Nitroaniline | 8.282 | 138 | 28635 | 5.1472 ug/mL | 92 |
| 64) 46Dinit2mylph | 8.304 | 198 | 14687 | 5.1117 ug/mL | 97 |
| 65) Ntrsdiphlam&Diphlam | 8.353 | 169 | 187135 | 10.0580 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.381 | 182 | 65024 | 9.8259 ug/mL# | 86 |
| 67) 4Brphlphlethr | 8.591 | 248 | 33026 | 5.1278 ug/mL | 96 |
| 68) Hexaclbenzene | 8.628 | 284 | 37372 | 5.1433 ug/mL | 98 |
| 69) Pentaclphenol | 8.756 | 266 | 9232 | 5.1185 ug/mL | 91 |
| 70) Phenanthrene | 8.898 | 178 | 174530 | 5.2262 ug/mL | 99 |
| 71) Anthracene | 8.930 | 178 | 173444 | 5.1181 ug/mL | 98 |
| 72) Carbazole | 9.035 | 167 | 154865 | 5.1988 ug/mL | 99 |
| 73) Dinbtylphthal | 9.259 | 149 | 210515 | 5.1490 ug/mL | 99 |
| 74) Fluoranthene | 9.697 | 202 | 187323 | 5.2833 ug/mL | 97 |
| 76) Benzidine | 9.779 | 184 | 56637 | 6.0387 ug/mL | 99 |
| 77) Pyrene | 9.853 | 202 | 196427 | 5.0942 ug/mL | 97 |
| 79) Btylbzylphth | 10.305 | 149 | 89870 | 4.8867 ug/mL | 96 |
| 80) bis2Ethlhxlad | 10.362 | 129 | 84349 | 4.8790 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.737 | 252 | 43484 | 6.4117 ug/mL | 96 |
| 82) B[a]anthracen | 10.768 | 228 | 178414 | 4.9315 ug/mL | 98 |
| 83) Chrysene | 10.799 | 228 | 168573 | 4.9401 ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.785 | 149 | 138236 | 4.8609 ug/mL | 99 |
| 85) Dinoctylphthl | 11.444 | 149 | 216408 | 4.8368 ug/mL | 100 |
| 87) B[b]fluoranth | 11.885 | 252 | 164035 | 4.9995 ug/mL | 99 |
| 88) B[k]fluoranth | 11.916 | 252 | 161442 | 4.8797 ug/mL | 99 |
| 89) Benz[a]pyrene | 12.294 | 252 | 149148 | 4.8871 ug/mL | 99 |
| 90) Indeno-pyrene | 13.666 | 276 | 157704 | 4.6738 ug/mL | 95 |
| 91) Dib[ah]anthr | 13.695 | 278 | 131036 | 4.7347 ug/mL | 98 |
| 92) B[ghi]perylen | 13.990 | 276 | 125330 | 4.7469 ug/mL | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL2.D Vial: 8
Acq On : 7 Apr 2025 12:31 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:53:30 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL4.D Vial: 6
Acq On : 7 Apr 2025 11:45 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:57:46 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M re-quanted with new ical
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 175406 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.074 | 136 | 842148 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.838 | 164 | 472974 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 670576 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.782 | 240 | 567464 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.379 | 264 | 597589 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.133 | 112 | 219376 | 50.84 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.84% | | | |
| 7) SURRPhenol-d5 | 3.966 | 99 | 261490 | 50.58 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.58% | | | |
| 22) SURRNitrbenzened5 | 5.074 | 82 | 230369 | 101.19 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.19% | | | |
| 44) SURR2Flbiphenyl | 7.256 | 172 | 563077 | 100.37 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 100.37% | | | |
| 62) SURR246Tribrphenl | 8.435 | 330 | 62282 | 51.18 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.18% | | | |
| 78) SURRTerphenyl-d14 | 9.958 | 244 | 564537 | 102.24 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 102.24% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.326 | 74 | 140074 | 20.1425 | ug/mL | 100 |
| 3) Pyridine | 2.346 | 79 | 246333 | 20.0160 | ug/mL | 100 |
| 5) Aniline | 4.022 | 93 | 331812 | 20.1888 | ug/mL | 100 |
| 6) bis2Clethletr | 4.088 | 93 | 220669 | 20.3885 | ug/mL | 100 |
| 8) Phenol | 3.983 | 94 | 267391 | 20.3989 | ug/mL | 100 |
| 9) 2-Cl-phenol | 4.147 | 128 | 237435 | 20.1921 | ug/mL | 100 |
| 10) 13Diclbenz | 4.321 | 146 | 258516 | 19.9863 | ug/mL | 100 |
| 11) 14Diclbenz | 4.406 | 146 | 259988 | 19.8526 | ug/mL | 100 |
| 12) 12Diclbenz | 4.582 | 146 | 246674 | 19.9482 | ug/mL | 100 |
| 13) Benzyl alcoho | 4.548 | 108 | 159046 | 20.7920 | ug/mL | 100 |
| 14) bis2clispreth | 4.721 | 45 | 416295 | 19.9610 | ug/mL | 100 |
| 15) 2Methylphenol | 4.684 | 107 | 187039 | 20.3248 | ug/mL | 100 |
| 16) Ntrspyrrol | 4.852 | 100 | 119931 | 20.8794 | ug/mL | 100 |
| 17) Acetophenone | 4.880 | 105 | 332552 | 20.2878 | ug/mL | 100 |
| 18) Hexaclethane | 5.008 | 117 | 99335 | 19.8366 | ug/mL | 100 |
| 19) N-Ntrsdinprop | 4.895 | 70 | 159458 | 19.7489 | ug/mL | 100 |
| 20) 3&4Methylphenol | 4.892 | 107 | 242634 | 20.4889 | ug/mL | 100 |
| 23) Nitrobenzene | 5.099 | 77 | 224631 | 20.2094 | ug/mL | 100 |
| 24) Isophorone | 5.463 | 82 | 486034 | 20.5757 | ug/mL | 100 |
| 25) 2-Nitrophenol | 5.565 | 139 | 158030 | 21.8647 | ug/mL | 100 |
| 26) 24Dimthpheno | 5.659 | 122 | 232597 | 20.1402 | ug/mL | 100 |
| 27) bis2clethoxym | 5.795 | 93 | 295000 | 20.1973 | ug/mL | 100 |
| 28) 24Diclphenol | 5.901 | 162 | 217069 | 20.6877 | ug/mL | 100 |
| 29) 124Triclbenz | 6.008 | 180 | 235908 | 20.0283 | ug/mL | 100 |
| 30) Benzoic acid | 5.807 | 122 | 117363 | 19.6530 | ug/mL | 100 |
| 31) Naphthalene | 6.099 | 128 | 777956 | 19.9656 | ug/mL | 100 |
| 32) 4-Cl-aniline | 6.182 | 127 | 288619 | 19.4500 | ug/mL | 100 |
| 33) 26Diclphenol | 6.188 | 162 | 210602 | 20.2593 | ug/mL | 100 |
| 34) Hexaclprop | 6.213 | 213 | 161723 | 20.4915 | ug/mL | 100 |
| 35) Hexaclbutdien | 6.270 | 225 | 139610 | 20.0225 | ug/mL | 100 |
| 36) 4Cl3methylphe | 6.753 | 107 | 220156 | 20.6645 | ug/mL | 100 |
| 37) 2Methylnaphth | 6.884 | 142 | 478235 | 20.3152 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.980 | 142 | 498582 | 20.2804 | ug/mL | 100 |
| 40) Hxclcycpentdi | 7.048 | 237 | 160428 | 20.9970 | ug/mL | 100 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL4.D Vial: 6
Acq On : 7 Apr 2025 11:45 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:57:46 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

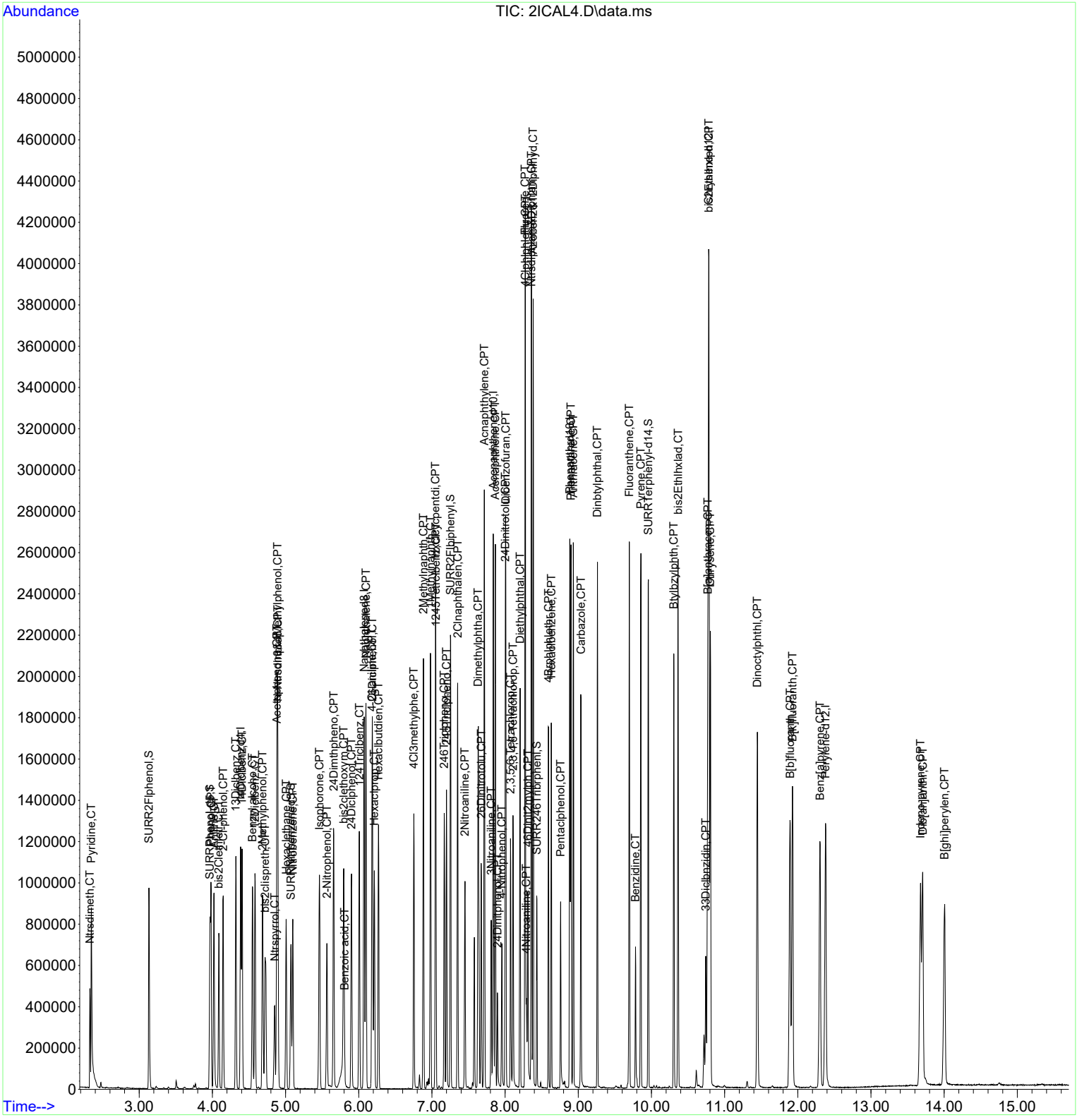
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.054 | 216 | 215029 | 19.9635 | ug/mL | 100 |
| 42) 246Triclpheno | 7.168 | 196 | 149031 | 20.4951 | ug/mL | 100 |
| 43) 245Triclpheno | 7.199 | 196 | 157813 | 20.4067 | ug/mL | 100 |
| 45) 2Clnaphthalen | 7.352 | 162 | 479889 | 20.2732 | ug/mL | 100 |
| 46) 2Nitroaniline | 7.452 | 65 | 143102 | 20.2390 | ug/mL | 100 |
| 47) Acnaphthylene | 7.716 | 152 | 776210 | 20.2688 | ug/mL | 100 |
| 48) Dimethylphtha | 7.631 | 163 | 564481 | 20.3818 | ug/mL | 100 |
| 49) 26Dinitrotolu | 7.674 | 165 | 128753 | 20.6027 | ug/mL | 100 |
| 50) Acenaphthene | 7.867 | 154 | 456934 | 20.1726 | ug/mL | 100 |
| 51) 3Nitroaniline | 7.810 | 138 | 119172 | 19.3189 | ug/mL | 100 |
| 52) 24Dinitphenol | 7.895 | 184 | 52750 | 19.6510 | ug/mL | 100 |
| 53) Dibenzofuran | 8.009 | 168 | 658860 | 20.2637 | ug/mL | 100 |
| 54) 24Dinitrotolu | 8.003 | 165 | 170214 | 20.8759 | ug/mL | 100 |
| 55) 4-Nitrophenol | 7.955 | 65 | 86890 | 19.7309 | ug/mL | 100 |
| 56) 2,3,5,6-Tetrachlorop | 8.074 | 232 | 116263 | 20.3731 | ug/mL | 100 |
| 57) 2,3,4,6-Tetrachlorop | 8.108 | 232 | 122711 | 20.2176 | ug/mL | 100 |
| 58) Fluorene | 8.273 | 166 | 495956 | 20.3087 | ug/mL | 100 |
| 59) 4Clphlphlethr | 8.276 | 204 | 229809 | 20.0280 | ug/mL | 100 |
| 60) Diethylphthal | 8.205 | 149 | 551648 | 20.1721 | ug/mL | 100 |
| 61) 4Nitroaniline | 8.290 | 138 | 107273 | 19.6318 | ug/mL | 100 |
| 64) 46Dinit2mylph | 8.310 | 198 | 81246 | 19.7797 | ug/mL | 100 |
| 65) Ntrsdiphlam&Diphlam | 8.358 | 169 | 696409 | 40.2584 | ug/mL | 100 |
| 66) Azobenz&12Diphlhyd | 8.384 | 182 | 252547 | 40.7193 | ug/mL | 100 |
| 67) 4Brphlphlethr | 8.594 | 248 | 127406 | 20.1858 | ug/mL | 100 |
| 68) Hexaclbenzene | 8.631 | 284 | 141013 | 19.8032 | ug/mL | 100 |
| 69) Pentaclphenol | 8.759 | 266 | 65640 | 20.1224 | ug/mL | 100 |
| 70) Phenanthrene | 8.901 | 178 | 665360 | 20.3307 | ug/mL | 100 |
| 71) Anthracene | 8.932 | 178 | 685547 | 20.6428 | ug/mL | 100 |
| 72) Carbazole | 9.037 | 167 | 539631 | 19.6218 | ug/mL | 100 |
| 73) Dinbtylphthal | 9.262 | 149 | 842902 | 21.0377 | ug/mL | 100 |
| 74) Fluoranthene | 9.697 | 202 | 717906 | 20.6616 | ug/mL | 100 |
| 76) Benzidine | 9.782 | 184 | 177884 | 19.2793 | ug/mL | 100 |
| 77) Pyrene | 9.856 | 202 | 740698 | 20.4401 | ug/mL | 100 |
| 79) Btylbzylphth | 10.305 | 149 | 376402 | 20.3357 | ug/mL | 100 |
| 80) bis2Ethlhxlad | 10.364 | 129 | 354897 | 20.5657 | ug/mL | 100 |
| 81) 33Diclbnzidin | 10.742 | 252 | 115933 | 18.5609 | ug/mL | 100 |
| 82) B[a]anthracen | 10.771 | 228 | 686672 | 20.1962 | ug/mL | 100 |
| 83) Chrysene | 10.805 | 228 | 647102 | 20.1787 | ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.785 | 149 | 568340 | 21.2652 | ug/mL | 100 |
| 85) Dinoctylphthl | 11.447 | 149 | 937466 | 20.4409 | ug/mL | 100 |
| 87) B[b]fluoranth | 11.896 | 252 | 659221 | 21.0814 | ug/mL | 100 |
| 88) B[k]fluoranth | 11.927 | 252 | 653647 | 20.7299 | ug/mL | 100 |
| 89) Benz[a]pyrene | 12.305 | 252 | 601900 | 20.6935 | ug/mL | 100 |
| 90) Indeno-pyrene | 13.678 | 276 | 648560 | 20.1679 | ug/mL | 100 |
| 91) Dib[ah]anthr | 13.709 | 278 | 537555 | 20.3798 | ug/mL | 100 |
| 92) B[ghi]perylen | 14.007 | 276 | 502085 | 19.9530 | ug/mL | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040725\2ICAL4.D Vial: 6
Acq On : 7 Apr 2025 11:45 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 07 13:57:46 2025

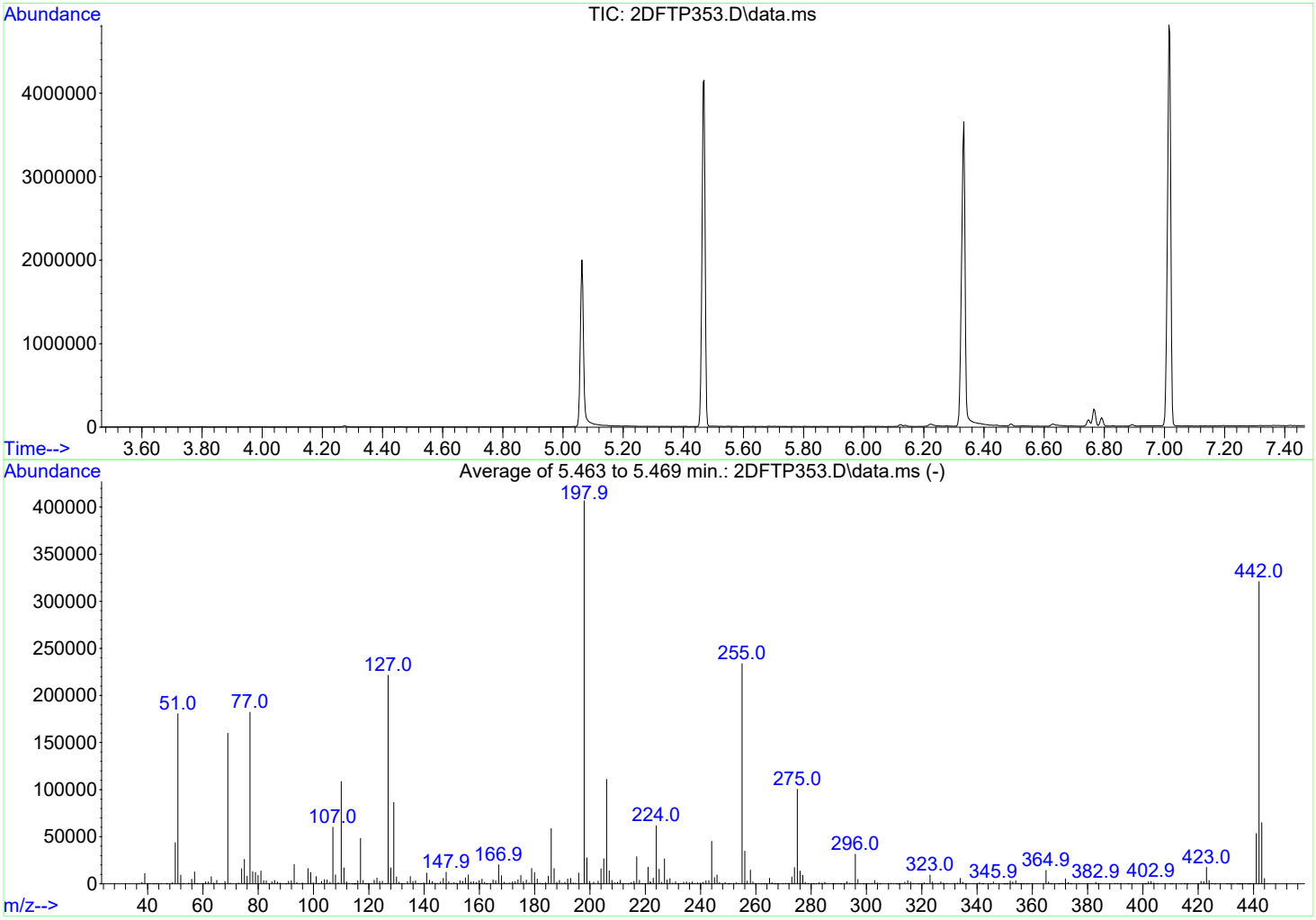
Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Data Path : C:\INSTARCH\DATA\2S040925\
Data File : 2DFTP353.D
Acq On : 9 Apr 2025 13:02
Operator : JJY
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Wed Apr 09 13:12:38 2025



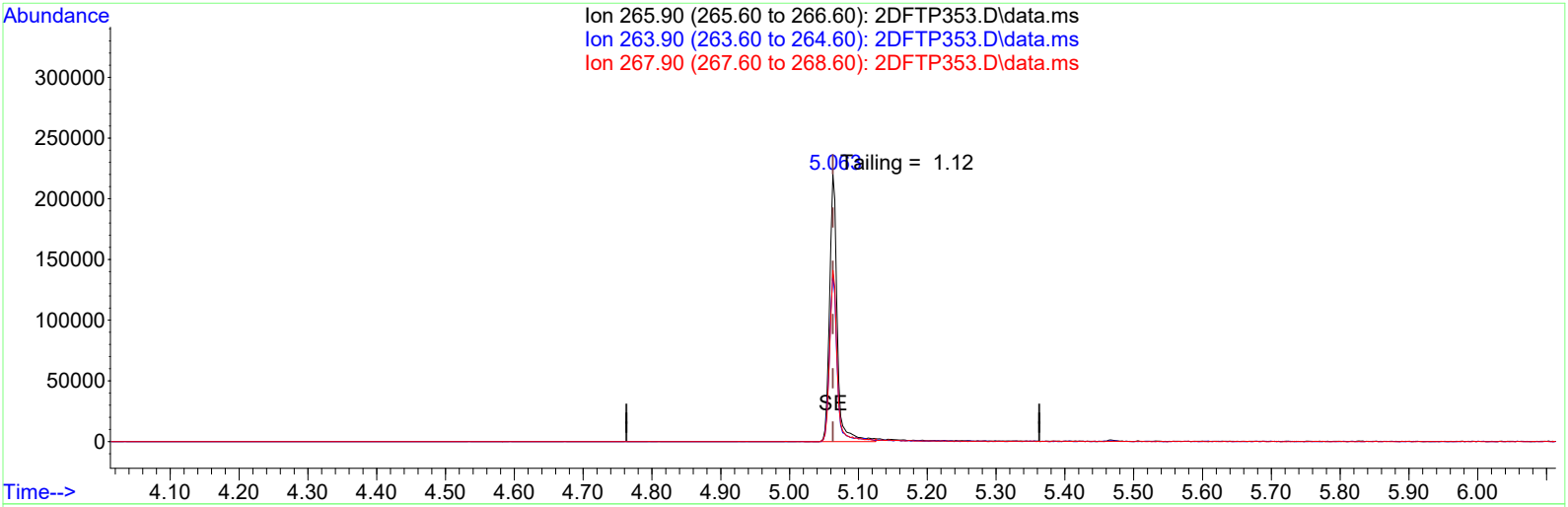

AutoFind: Scans 943, 944, 945; Background Corrected with Scan 935

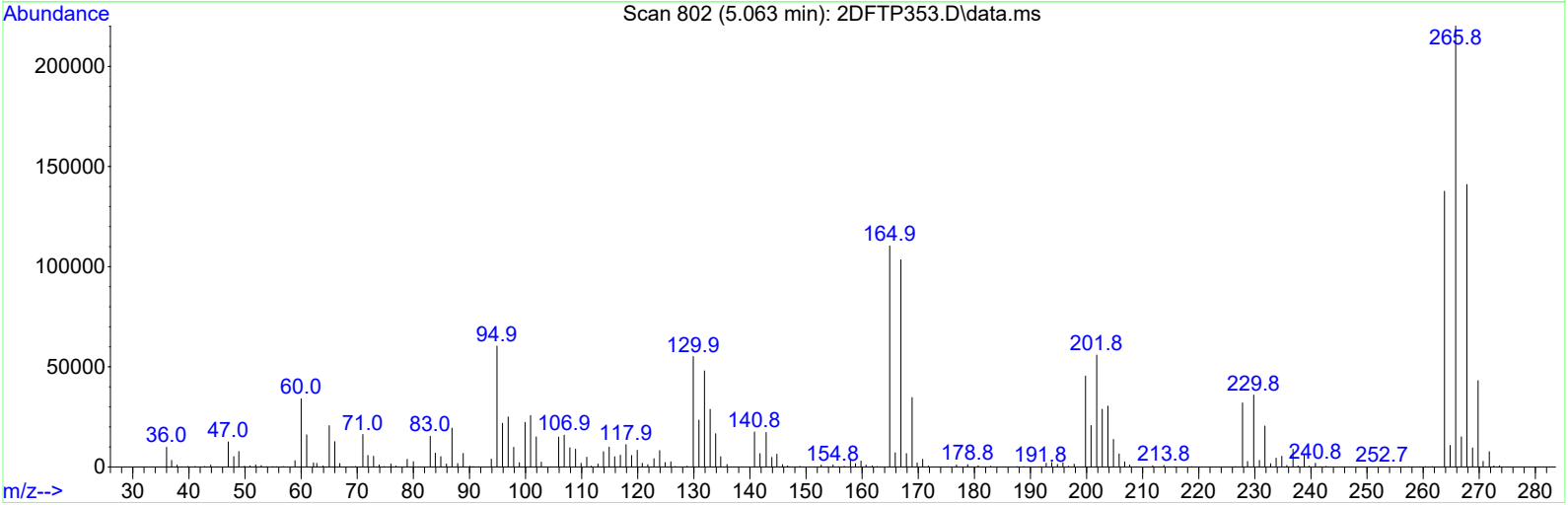
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 44.4 | 180665 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 2465 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 839 | PASS |
| 127 | 198 | 10 | 80 | 54.4 | 221419 | PASS |
| 197 | 198 | 0.00 | 2 | 0.1 | 469 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 406784 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 27501 | PASS |
| 275 | 198 | 10 | 60 | 24.7 | 100451 | PASS |
| 365 | 198 | 1 | 100 | 3.5 | 14191 | PASS |
| 441 | 442 | 0.01 | 24 | 16.6 | 53365 | PASS |
| 442 | 198 | 50 | 100 | 78.9 | 320896 | PASS |
| 443 | 442 | 15 | 24 | 20.2 | 64888 | PASS |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S040925\2DFTP353.D  Vial: 1
Acq On : 9 Apr 2025 13:02  Operator: JJY
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 13:12:47 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Wed Apr 09 13:12:38 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP353.D\data.ms

**(1) Pentachlorophenol**

**5.063min (-0.000) 21.44 ng**

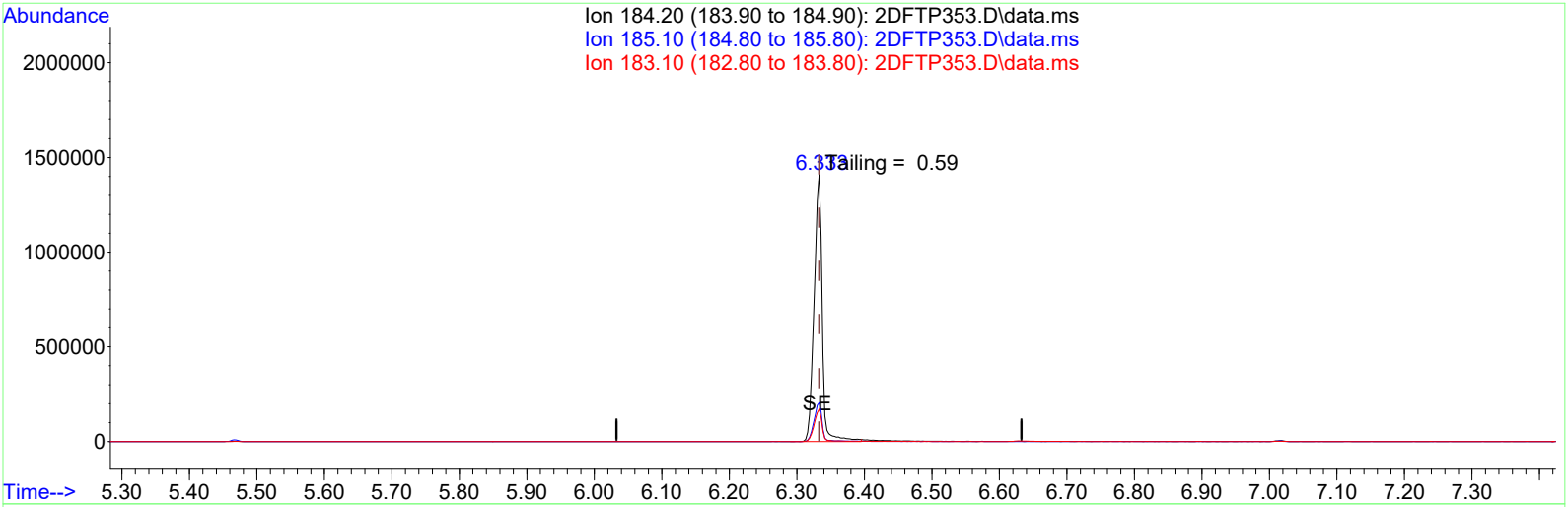
**response 168226**

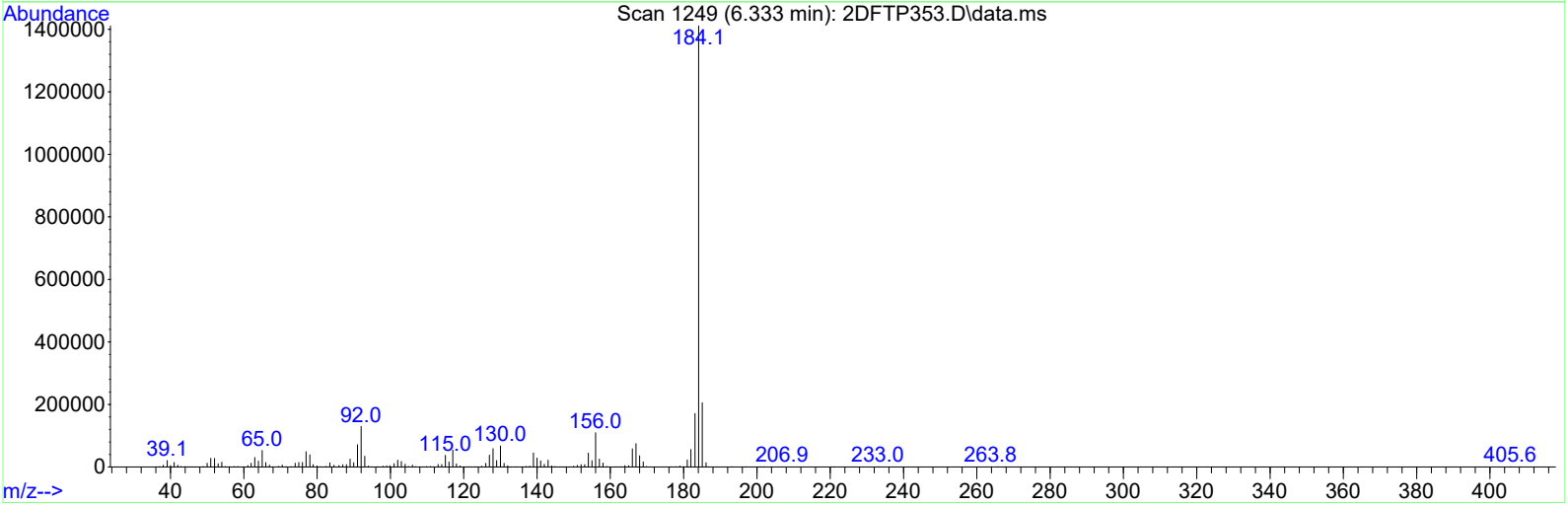
| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 263.90 | 62.00 | 63.76 |
| 267.90 | 60.10 | 63.62 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S040925\2DFTP353.D  Vial: 1
Acq On : 9 Apr 2025 13:02  Operator: JJY
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 13:12:47 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Wed Apr 09 13:12:38 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP353.D\data.ms

**(3) Benzidine**

**6.333min ( 0.000) 45.94 ng**

**response 1191238**

| Ion | Exp% | Act% |
|---|---|---|
| 184.20 | 100.00 | 100.00 |
| 185.10 | 15.30 | 14.43 |
| 183.10 | 11.70 | 11.71 |
| 0.00 | 0.00 | 0.00 |

| | |
|---|---|
| Data File Name | 2DFTP353.D |
| Vial Number | 1 |
| Data File Path | C:\INSTARCH\DATA\2S040925\ |
| Operator | JJY |
| Date Acquired | 4/9/2025 13:02 |
| Instrument Name | SVMS2 |
| Sample Name | DFTPP TUNE SVMS10212 |
| Sample Multiplier | 1 |
| Misc Info | SVMS2, 25 ng DFTPP |
| Calibration Title | DFTPP TUNE |
| Last Calibration Update | Wed Apr 09 13:12:38 2025 |

| # | Name | Ret Time | Target Response |
|---|---|---|---|
| 1) | Pentachlorophenol | 5.06 | 168226 |
| 2) | DFTPP | 5.47 | 324333 |
| 3) | Benzidine | 6.33 | 1191238 |
| 4) | DDE | 6.49 | 2231 |
| 5) | DDD | 6.76 | 39273 |
| 6) | DDT | 7.02 | 672966 |

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \qquad 5.81\ \%$$

# Response Factor Report SVMS2

Method Path : C:\INSTARCH\METHOD\
Method File : 2S040925.M
Title : Method for 8270 Analysis
Last Update : Wed Apr 09 16:42:21 2025
Response Via : Initial Calibration

Calibration Files
1 =2ICAL1.D 5 =2ICAL2.D 10 =2ICAL3.D 20 =2ICAL4.D 30 =2ICAL5.D 40 =2ICAL6.D 50 =2ICAL7.D

| | | Compound | 1 | 5 | 10 | 20 | 30 | 40 | 50 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 14Diclbenzd4 | ----------ISTD---------- | | | | | | | | |
| 2) | CT | Ntrsdimeth | 0.737 | 0.763 | 0.733 | 0.796 | 0.819 | 0.780 | 0.793 | 0.774 | 4.10 |
| 3) | CT | Pyridine | 1.401 | 1.376 | 1.315 | 1.383 | 1.430 | 1.375 | 1.407 | 1.384 | 2.61 |
| 4) | S | SURR2Flphenol | 0.446 | 0.483 | 0.466 | 0.498 | 0.506 | 0.481 | 0.491 | 0.482 | 4.18 |
| 5) | CT | Aniline | 1.751 | 1.807 | 1.783 | 1.900 | 1.930 | 1.866 | 1.885 | 1.846 | 3.59 |
| 6) | CPT | bis2Clethletr | 1.200 | 1.221 | 1.187 | 1.227 | 1.256 | 1.205 | 1.208 | 1.215 | 1.84 |
| 7) | S | SURRPhenol-d5 | 0.536 | 0.571 | 0.567 | 0.588 | 0.609 | 0.589 | 0.592 | 0.579 | 4.07 |
| 8) | CPT | Phenol | 1.395 | 1.467 | 1.456 | 1.507 | 1.563 | 1.491 | 1.503 | 1.483 | 3.49 |
| 9) | CPT | 2-Cl-phenol | 1.281 | 1.331 | 1.286 | 1.367 | 1.385 | 1.341 | 1.358 | 1.336 | 2.96 |
| 10) | CT | 13Diclbenz | 1.457 | 1.458 | 1.412 | 1.481 | 1.504 | 1.426 | 1.444 | 1.455 | 2.16 |
| 11) | CT | 14Diclbenz | 1.564 | 1.497 | 1.452 | 1.490 | 1.514 | 1.451 | 1.452 | 1.489 | 2.81 |
| 12) | CT | 12Diclbenz | 1.472 | 1.403 | 1.352 | 1.424 | 1.434 | 1.381 | 1.376 | 1.406 | 2.91 |
| 13) | CT | Benzyl alcoho | 0.750 | 0.836 | 0.831 | 0.902 | 0.923 | 0.887 | 0.890 | 0.860 | 6.87 |
| 14) | CPT | bis2clispreth | 2.387 | 2.264 | 2.207 | 2.301 | 2.356 | 2.296 | 2.287 | 2.300 | 2.57 |
| 15) | CPT | 2Methylphenol | 0.986 | 1.019 | 1.008 | 1.066 | 1.073 | 1.046 | 1.040 | 1.034 | 3.04 |
| 16) | CT | Ntrspyrrol | 0.564 | 0.634 | 0.626 | 0.673 | 0.682 | 0.674 | 0.667 | 0.646 | 6.48 |
| 17) | CPT | Acetophenone | 1.882 | 1.840 | 1.816 | 1.901 | 1.921 | 1.865 | 1.868 | 1.871 | 1.90 |
| 18) | CPT | Hexaclethane | 0.572 | 0.559 | 0.530 | 0.568 | 0.587 | 0.573 | 0.578 | 0.567 | 3.21 |
| 19) | CPT | N-Ntrsdinprop | 0.863 | 0.898 | 0.853 | 0.921 | 0.912 | 0.913 | 0.914 | 0.896 | 3.03 |
| 20) | CPT | 3&4Methylphenol | 1.280 | 1.351 | 1.300 | 1.383 | 1.388 | 1.340 | 1.341 | 1.340 | 2.96 |
| 21) | I | Naphthalened8 | ----------ISTD---------- | | | | | | | | |
| 22) | S | SURRNitrbenzened5 | 0.051 | 0.053 | 0.053 | 0.055 | 0.057 | 0.056 | 0.056 | 0.054 | 3.60 |
| 23) | CPT | Nitrobenzene | 0.259 | 0.261 | 0.254 | 0.265 | 0.274 | 0.265 | 0.265 | 0.263 | 2.30 |
| 24) | CPT | Isophorone | 0.520 | 0.551 | 0.537 | 0.569 | 0.578 | 0.561 | 0.566 | 0.555 | 3.65 |
| 25) | CPT | 2-Nitrophenol | 0.162 | 0.177 | 0.172 | 0.178 | 0.182 | 0.178 | 0.176 | 0.175 | 3.71 |
| 26) | CPT | 24Dimthpheno | 0.270 | 0.272 | 0.260 | 0.272 | 0.275 | 0.267 | 0.265 | 0.269 | 1.93 |
| 27) | CPT | bis2clethoxym | 0.336 | 0.351 | 0.336 | 0.351 | 0.355 | 0.347 | 0.344 | 0.346 | 2.17 |
| 28) | CPT | 24Diclphenol | 0.230 | 0.253 | 0.249 | 0.258 | 0.265 | 0.253 | 0.254 | 0.252 | 4.28 |
| 29) | CT | 124Triclbenz | 0.287 | 0.287 | 0.275 | 0.281 | 0.287 | 0.276 | 0.277 | 0.281 | 1.96 |
| 30) | CT | Benzoic acid | | 0.078 | 0.108 | 0.145 | 0.157 | 0.160 | 0.159 | 0.135 | 25.19# |
| 31) | CPT | Naphthalene | 0.977 | 0.952 | 0.922 | 0.922 | 0.932 | 0.880 | 0.872 | 0.922 | 4.03 |
| 32) | CPT | 4-Cl-aniline | 0.332 | 0.349 | 0.345 | 0.371 | 0.381 | 0.373 | 0.369 | 0.360 | 5.02 |
| 33) | CT | 26Diclphenol | 0.247 | 0.252 | 0.244 | 0.252 | 0.256 | 0.243 | 0.241 | 0.248 | 2.18 |
| 34) | CT | Hexaclprop | 0.157 | 0.179 | 0.175 | 0.189 | 0.193 | 0.187 | 0.186 | 0.181 | 6.74 |
| 35) | CPT | Hexaclbutdien | 0.167 | 0.164 | 0.162 | 0.165 | 0.170 | 0.163 | 0.162 | 0.165 | 1.68 |
| 36) | CPT | 4Cl3methylphe | 0.228 | 0.249 | 0.250 | 0.265 | 0.266 | 0.259 | 0.259 | 0.254 | 5.23 |
| 37) | CPT | 2Methylnaphth | 0.575 | 0.572 | 0.555 | 0.563 | 0.565 | 0.537 | 0.536 | 0.557 | 2.86 |
| 38) | CT | 1Methylnaphth | 0.589 | 0.601 | 0.570 | 0.585 | 0.584 | 0.553 | 0.554 | 0.577 | 3.14 |
| 39) | I | Acenaphthened10 | ----------ISTD---------- | | | | | | | | |
| 40) | CPT | Hxclcycpentdi | 0.253 | 0.307 | 0.298 | 0.337 | 0.332 | 0.324 | 0.320 | 0.310 | 9.27 |
| 41) | CPT | 1245Tetrclbenz | 0.474 | 0.466 | 0.444 | 0.469 | 0.453 | 0.442 | 0.443 | 0.456 | 2.96 |
| 42) | CPT | 246Triclpheno | 0.267 | 0.296 | 0.298 | 0.321 | 0.324 | 0.315 | 0.320 | 0.306 | 6.64 |

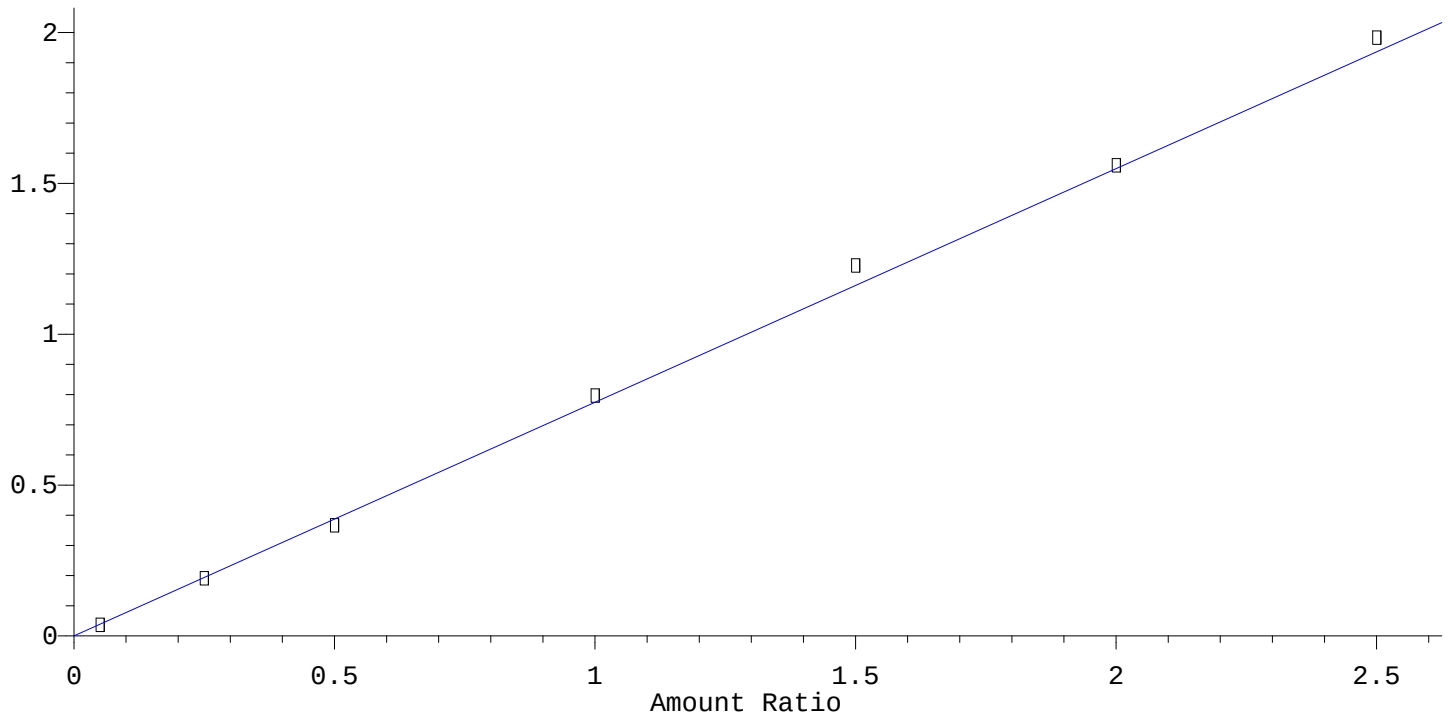
Method Path : C:\INSTARCH\METHOD\
Method File : 2S040925.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 43) | CPT | 245Triclpheno | 0.296 | 0.327 | 0.329 | 0.345 | 0.348 | 0.339 | 0.344 | 0.332 | 5.47 |
| 44) | S | SURR2Flbiphenyl | 0.252 | 0.247 | 0.237 | 0.243 | 0.235 | 0.229 | 0.226 | 0.239 | 3.91 |
| 45) | CPT | 2Clnaphthalen | 1.029 | 1.030 | 0.999 | 1.034 | 1.021 | 0.983 | 0.983 | 1.011 | 2.21 |
| 46) | CPT | 2Nitroaniline | 0.241 | 0.286 | 0.295 | 0.318 | 0.323 | 0.322 | 0.322 | 0.301 | 10.04 |
| 47) | CPT | Acnaphthylene | 1.663 | 1.690 | 1.633 | 1.657 | 1.610 | 1.552 | 1.526 | 1.619 | 3.73 |
| 48) | CPT | Dimethylphtha | 1.184 | 1.212 | 1.169 | 1.219 | 1.195 | 1.150 | 1.146 | 1.182 | 2.42 |
| 49) | CPT | 26Dinitrotolu | 0.246 | 0.264 | 0.268 | 0.280 | 0.278 | 0.272 | 0.271 | 0.268 | 4.21 |
| 50) | CPT | Acenaphthene | 1.016 | 0.971 | 0.956 | 0.980 | 0.956 | 0.930 | 0.925 | 0.962 | 3.24 |
| 51) | CPT | 3Nitroaniline | 0.230 | 0.268 | 0.266 | 0.294 | 0.301 | 0.296 | 0.300 | 0.279 | 9.49 |
| 52) | CPT | 24Dinitphenol | | 0.031 | 0.053 | 0.103 | 0.114 | 0.123 | 0.130 | 0.092 | 44.12# |
| 53) | CPT | Dibenzofuran | 1.492 | 1.454 | 1.402 | 1.414 | 1.372 | 1.299 | 1.292 | 1.389 | 5.36 |
| 54) | CPT | 24Dinitrotolu | 0.283 | 0.350 | 0.361 | 0.376 | 0.368 | 0.360 | 0.361 | 0.351 | 8.87 |
| 55) | CPT | 4-Nitrophenol | | 0.166 | 0.171 | 0.204 | 0.203 | 0.200 | 0.204 | 0.191 | 9.33 |
| 56) | CT | 2,3,5,6-Tetrac... | 0.125 | 0.204 | 0.218 | 0.252 | 0.256 | 0.254 | 0.262 | 0.224 | 21.85# |
| 57) | CPT | 2,3,4,6-Tetrac... | 0.185 | 0.243 | 0.244 | 0.265 | 0.265 | 0.260 | 0.264 | 0.247 | 11.63 |
| 58) | CPT | Fluorene | 1.144 | 1.117 | 1.076 | 1.092 | 1.045 | 0.987 | 0.974 | 1.062 | 6.02 |
| 59) | CPT | 4Clphlphlethr | 0.540 | 0.526 | 0.506 | 0.512 | 0.491 | 0.467 | 0.459 | 0.500 | 5.94 |
| 60) | CPT | Diethylphthal | 1.169 | 1.192 | 1.158 | 1.207 | 1.198 | 1.156 | 1.155 | 1.177 | 1.88 |
| 61) | CPT | 4Nitroaniline | 0.191 | 0.223 | 0.228 | 0.255 | 0.276 | 0.257 | 0.264 | 0.242 | 12.19 |
| 62) | S | SURR246Tribrphenl | 0.051 | 0.050 | 0.053 | 0.056 | 0.056 | 0.055 | 0.055 | 0.054 | 4.15 |
| 63) | I | Phenanthrd10 | ----------ISTD---------- | | | | | | | | |
| 64) | CPT | 46Dinit2mylph | | 0.076 | 0.094 | 0.118 | 0.127 | 0.126 | 0.126 | 0.111 | 19.16 |
| 65) | CPT | Ntrsdiphlam&Di... | 0.550 | 0.551 | 0.522 | 0.523 | 0.511 | 0.484 | 0.469 | 0.516 | 5.96 |
| 66) | CT | Azobenz&12Diph... | 0.197 | 0.193 | 0.183 | 0.186 | 0.182 | 0.174 | 0.171 | 0.184 | 5.06 |
| 67) | CPT | 4Brphlphlethr | 0.192 | 0.190 | 0.185 | 0.190 | 0.190 | 0.184 | 0.182 | 0.188 | 1.98 |
| 68) | CPT | Hexaclbenzene | 0.221 | 0.216 | 0.205 | 0.209 | 0.210 | 0.207 | 0.203 | 0.210 | 3.00 |
| 69) | CPT | Pentaclphenol | | 0.038 | 0.058 | 0.085 | 0.096 | 0.102 | 0.106 | 0.081 | 33.61# |
| 70) | CPT | Phenanthrene | 1.071 | 1.019 | 0.977 | 0.984 | 0.964 | 0.911 | 0.894 | 0.974 | 6.20 |
| 71) | CPT | Anthracene | 1.044 | 1.027 | 1.003 | 1.005 | 0.996 | 0.940 | 0.924 | 0.991 | 4.43 |
| 72) | CPT | Carbazole | 0.925 | 0.907 | 0.836 | 0.811 | 0.832 | 0.798 | 0.800 | 0.844 | 6.10 |
| 73) | CPT | Dinbtylphthal | 1.149 | 1.217 | 1.202 | 1.224 | 1.217 | 1.142 | 1.116 | 1.181 | 3.73 |
| 74) | CPT | Fluoranthene | 1.048 | 1.070 | 1.052 | 1.044 | 1.042 | 0.974 | 0.972 | 1.029 | 3.82 |
| 75) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 76) | CT | Benzidine | 0.257 | 0.276 | 0.234 | 0.266 | 0.317 | 0.331 | 0.367 | 0.293 | 16.14 |
| 77) | CPT | Pyrene | 1.303 | 1.275 | 1.238 | 1.311 | 1.266 | 1.257 | 1.243 | 1.270 | 2.21 |
| 78) | S | SURRTerphenyl-d14 | 0.191 | 0.193 | 0.189 | 0.204 | 0.196 | 0.196 | 0.195 | 0.195 | 2.49 |
| 79) | CPT | Btylbzylphth | 0.540 | 0.597 | 0.602 | 0.660 | 0.663 | 0.667 | 0.667 | 0.628 | 7.86 |
| 80) | CT | bis2Ethlhxlad | 0.478 | 0.561 | 0.556 | 0.623 | 0.603 | 0.609 | 0.600 | 0.576 | 8.62 |
| 81) | CPT | 33Diclbnzidin | 0.306 | 0.307 | 0.279 | 0.289 | 0.329 | 0.335 | 0.365 | 0.316 | 9.30 |
| 82) | CPT | B[a]anthracen | 1.233 | 1.186 | 1.156 | 1.218 | 1.217 | 1.207 | 1.213 | 1.204 | 2.13 |
| 83) | CPT | Chrysene | 1.174 | 1.126 | 1.089 | 1.124 | 1.142 | 1.117 | 1.133 | 1.129 | 2.30 |
| 84) | CPT | bis2Ethlhxlph | 0.792 | 0.897 | 0.900 | 0.956 | 0.965 | 0.956 | 0.949 | 0.916 | 6.72 |
| 85) | CPT | Dinoctylphthl | 1.142 | 1.422 | 1.463 | 1.600 | 1.660 | 1.636 | 1.661 | 1.512 | 12.51 |
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | |
| 87) | CPT | B[b]fluoranth | 1.014 | 1.027 | 1.013 | 1.118 | 1.111 | 1.060 | 1.072 | 1.059 | 4.11 |
| 88) | CPT | B[k]fluoranth | 1.032 | 1.082 | 1.065 | 1.088 | 1.083 | 1.054 | 1.027 | 1.061 | 2.36 |
| 89) | CPT | Benz[a]pyrene | 0.881 | 0.953 | 0.960 | 1.016 | 1.024 | 0.995 | 0.991 | 0.974 | 5.00 |
| 90) | CPT | Indeno-pyrene | 0.980 | 1.059 | 1.092 | 1.029 | 1.177 | 1.079 | 1.129 | 1.078 | 6.00 |
| 91) | CPT | Dib[ah]anthr | 0.731 | 0.872 | 0.913 | 0.856 | 0.977 | 0.883 | 0.933 | 0.881 | 8.80 |
| 92) | CPT | B[ghi]perylen | 0.796 | 0.834 | 0.855 | 0.791 | 0.921 | 0.824 | 0.888 | 0.844 | 5.62 |

Method Path : C:\INSTARCH\METHOD\
Method File : 2S040925.M
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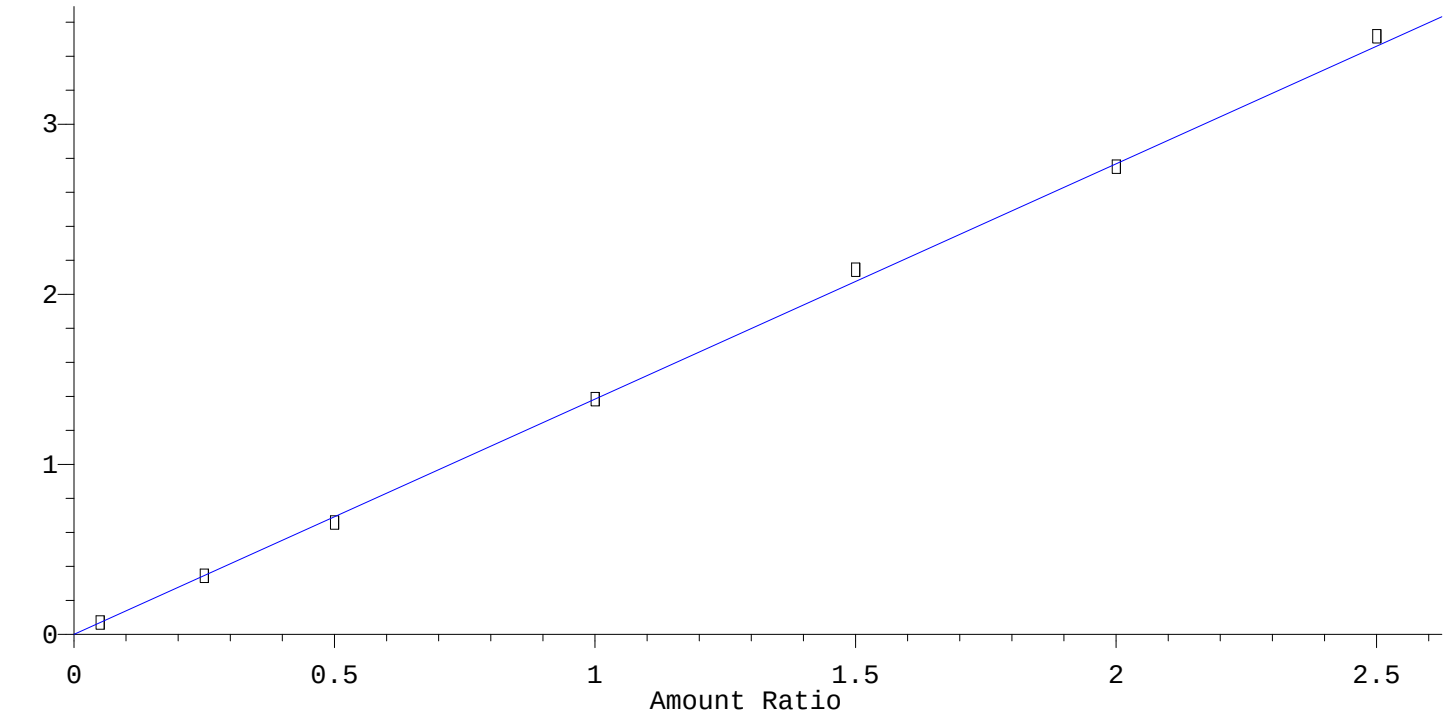
Calibration Plot Report

Ntrsdimeth



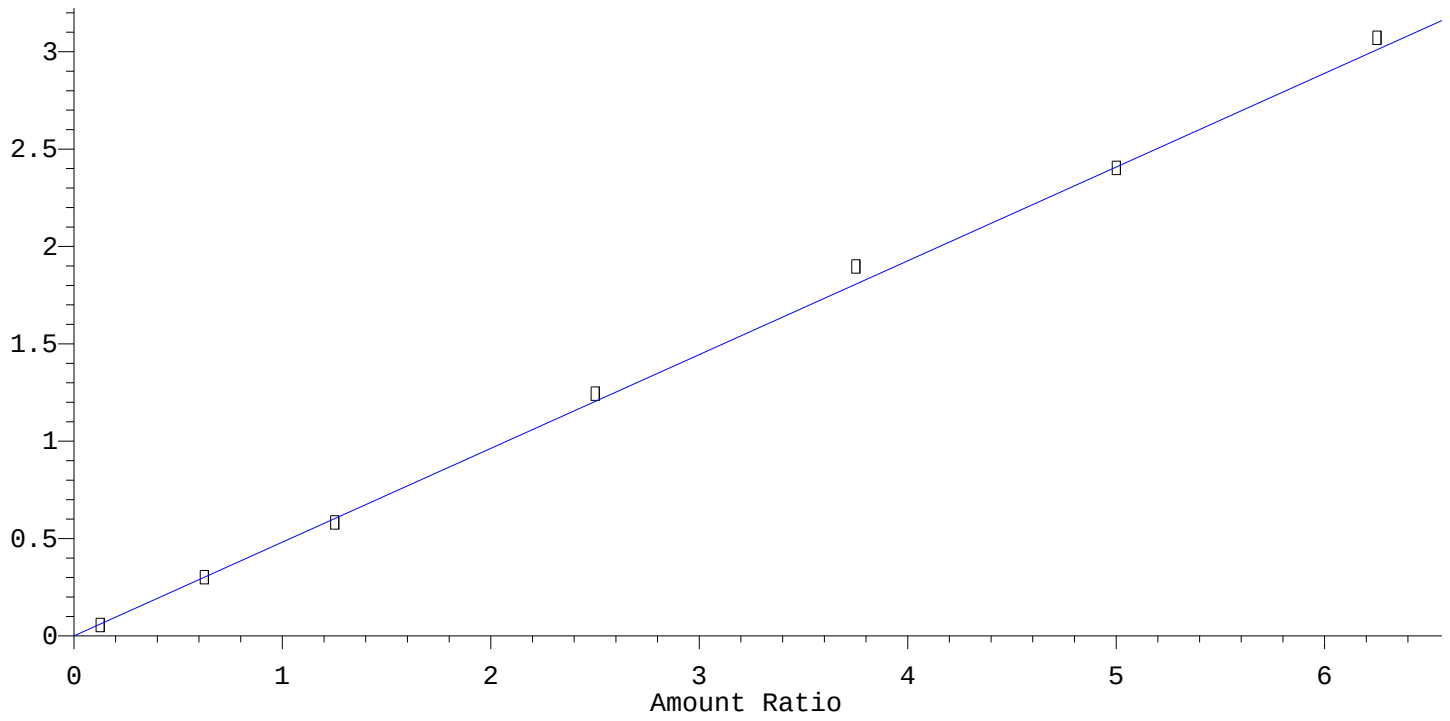

Resp Ratio = 7.744e-001 * Amt
RF Rel Std Dev = 4.102%  Curve Fit: Avg RF

Pyridine



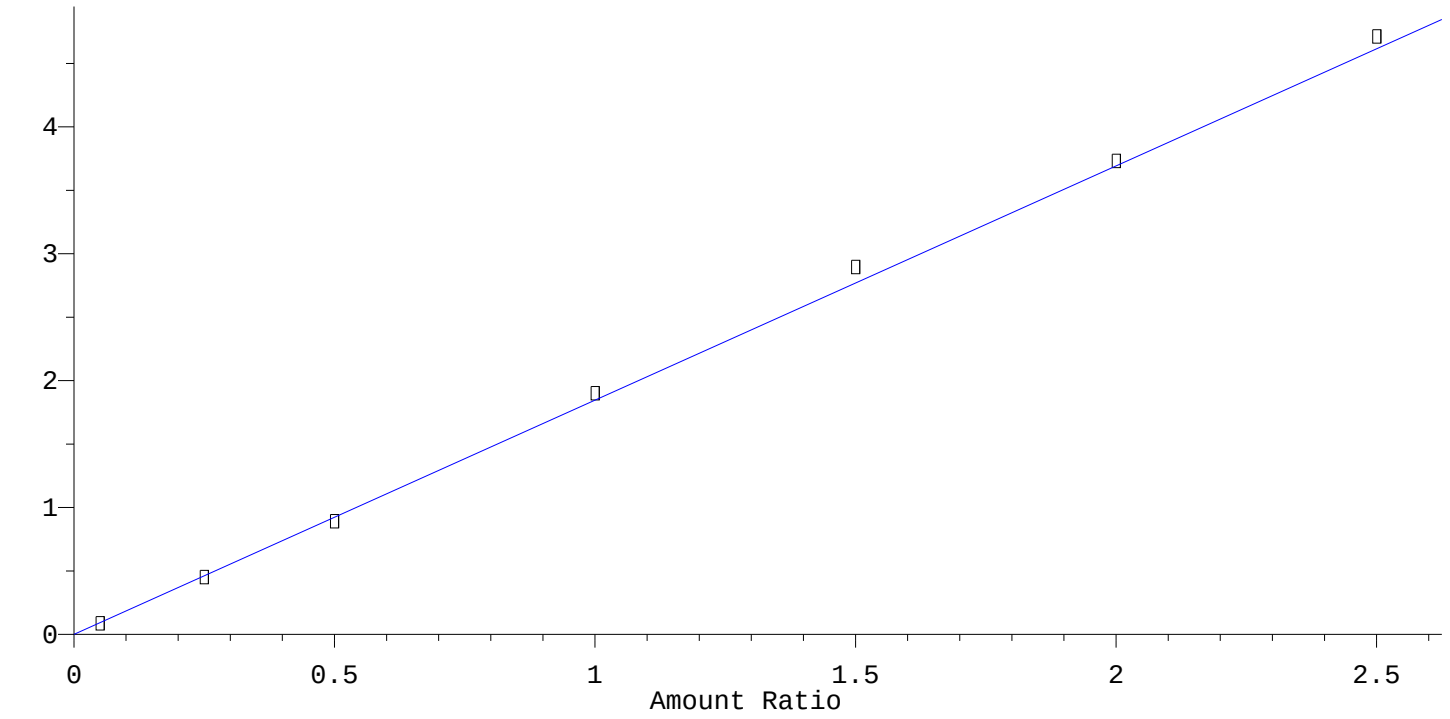

Resp Ratio = 1.384e+000 * Amt
RF Rel Std Dev = 2.611%  Curve Fit: Avg RF

SURR2Flphenol

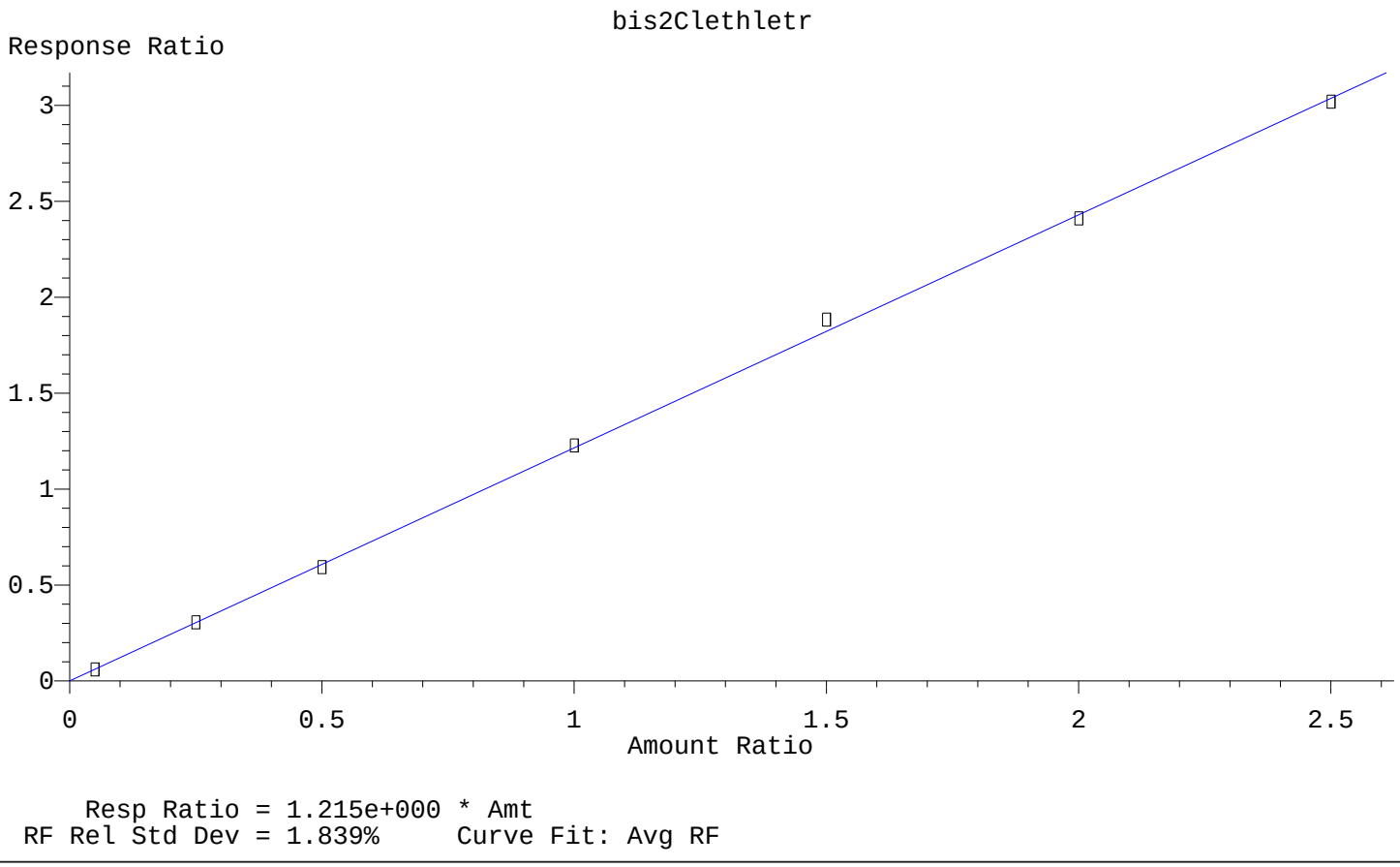



Resp Ratio = 4.815e-001 * Amt
RF Rel Std Dev = 4.177%  Curve Fit: Avg RF

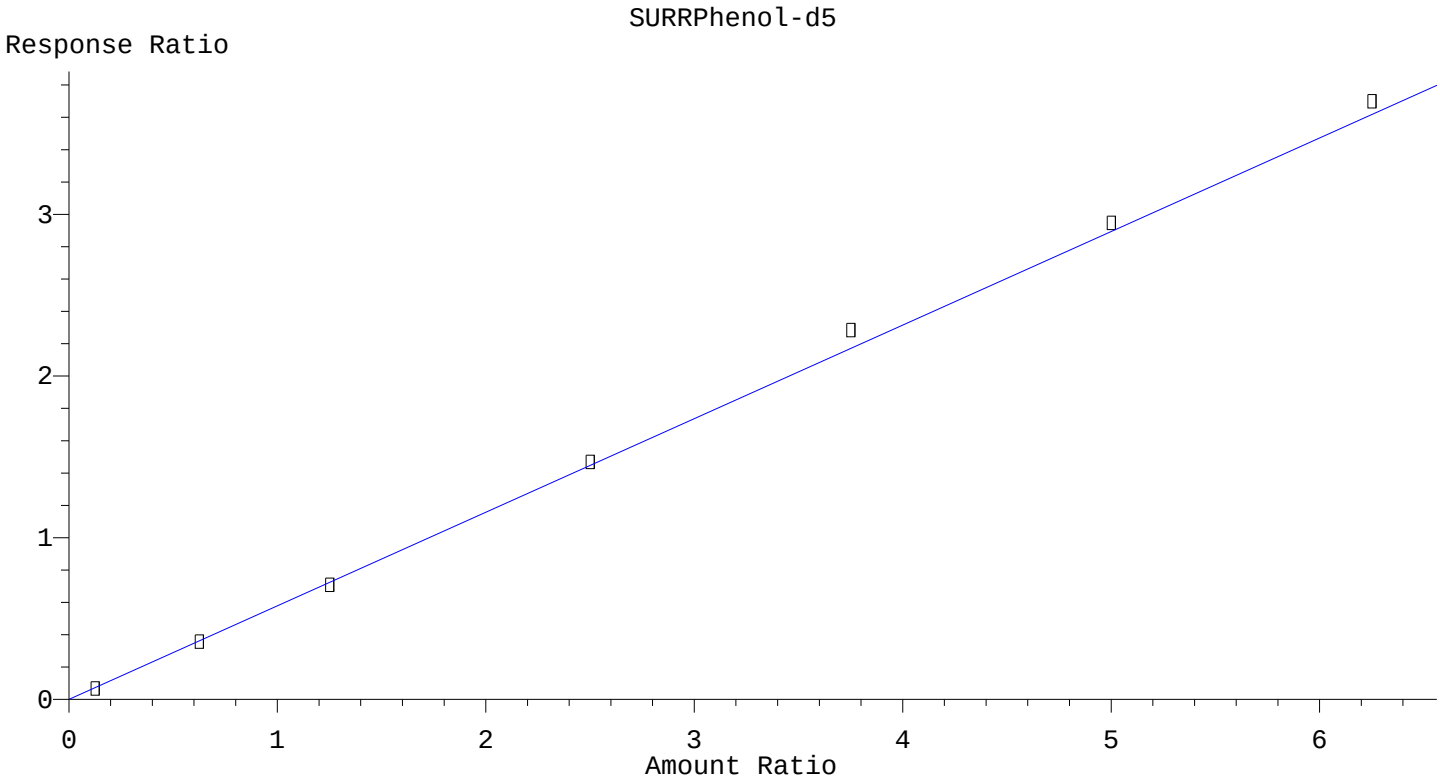
Aniline




Resp Ratio = 1.846e+000 * Amt
RF Rel Std Dev = 3.595%  Curve Fit: Avg RF

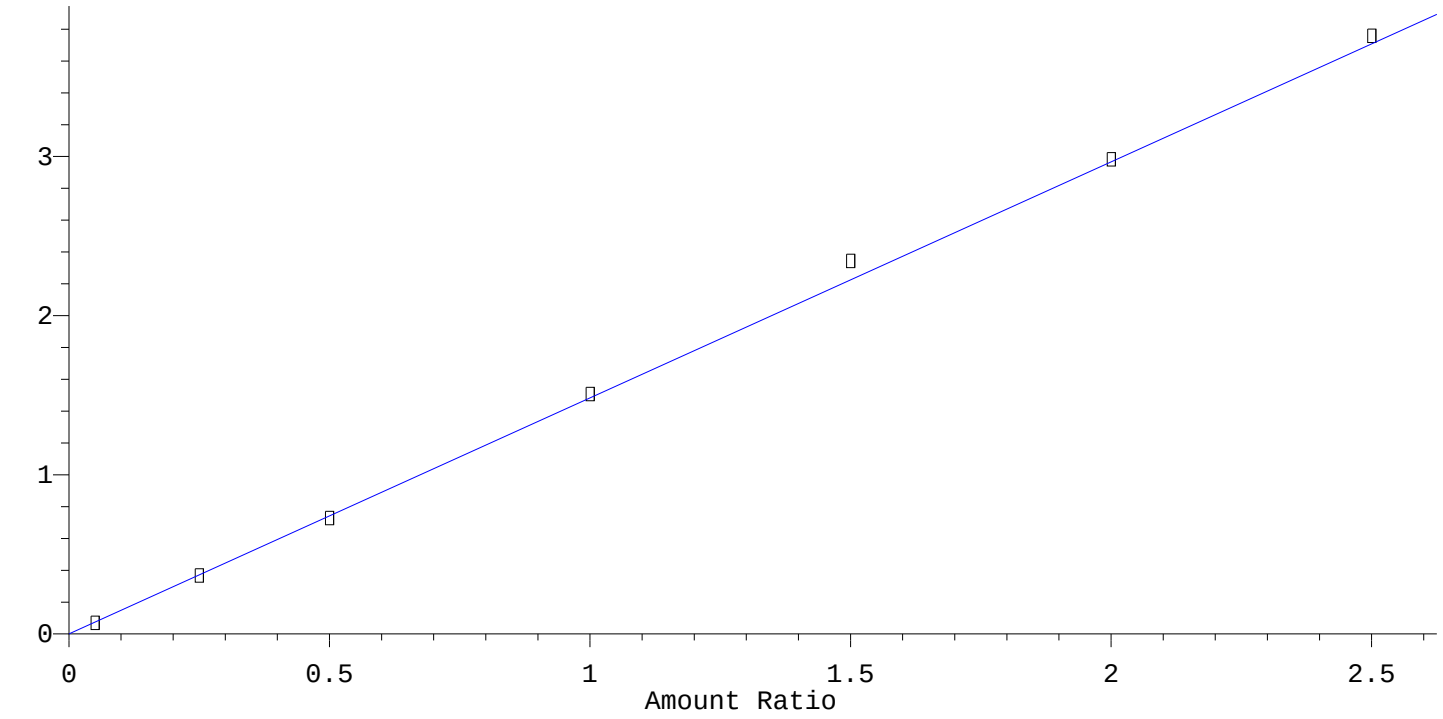



Resp Ratio = 1.215e+000 * Amt
RF Rel Std Dev = 1.839%  Curve Fit: Avg RF



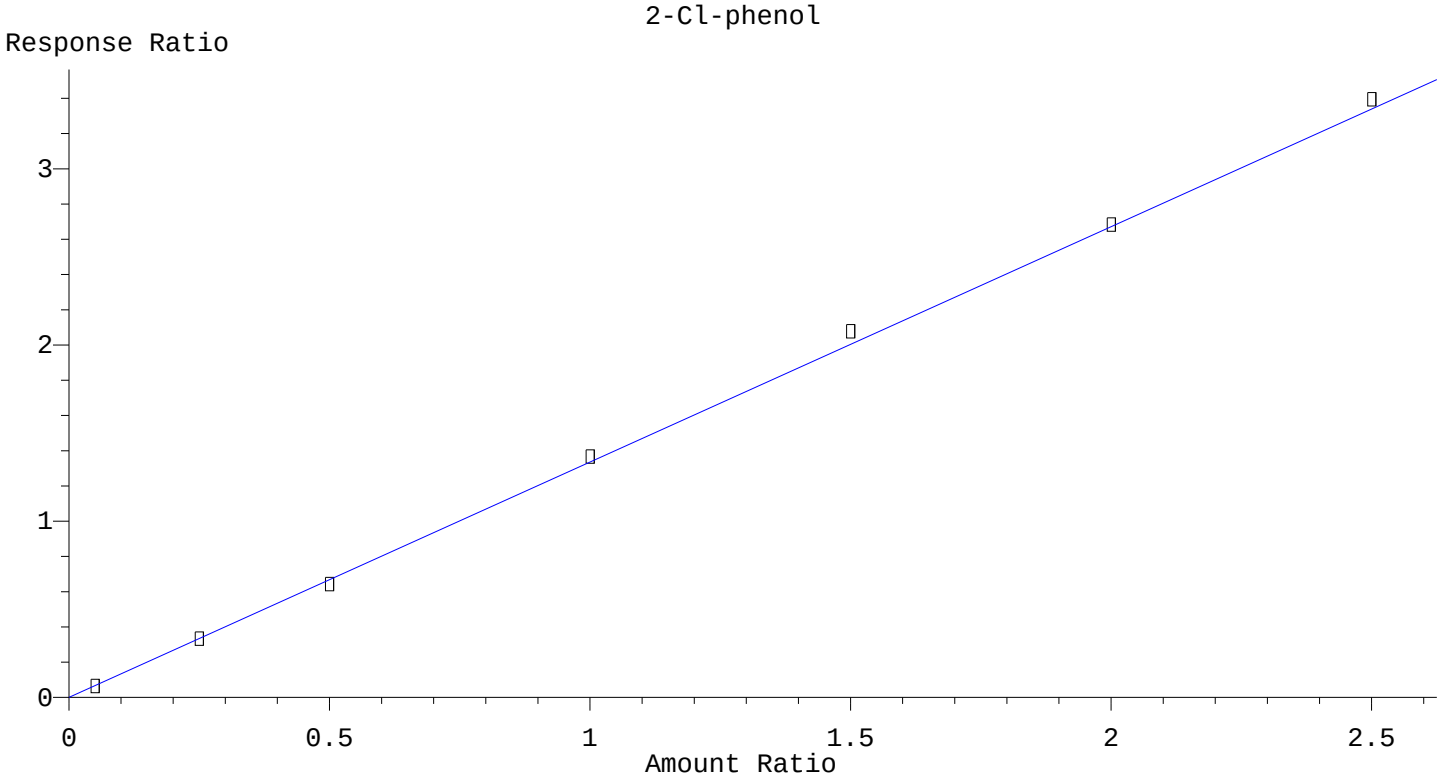

Resp Ratio = 5.788e-001 * Amt
RF Rel Std Dev = 4.073%  Curve Fit: Avg RF

Phenol

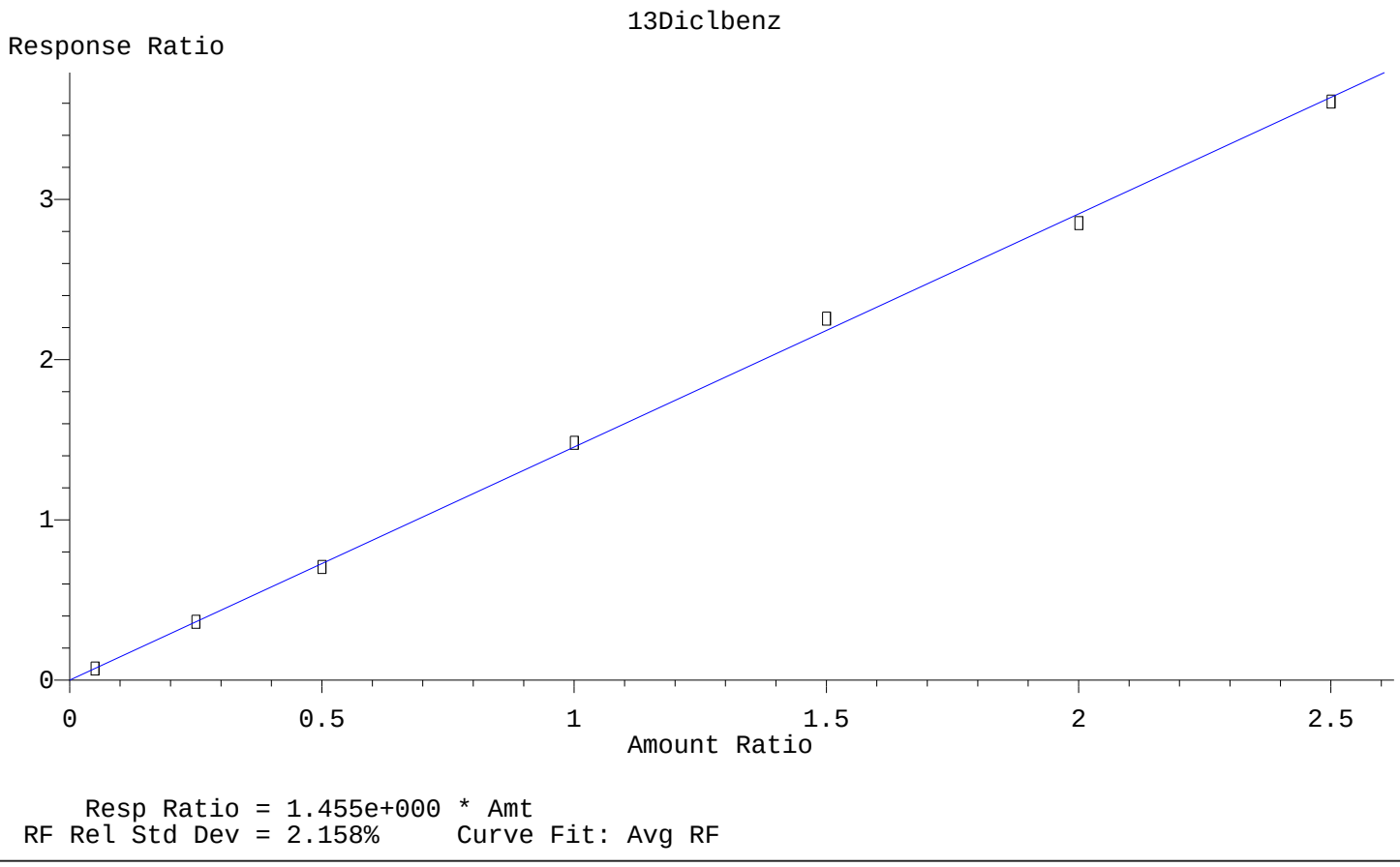



Resp Ratio = 1.483e+000 * Amt
RF Rel Std Dev = 3.491%  Curve Fit: Avg RF

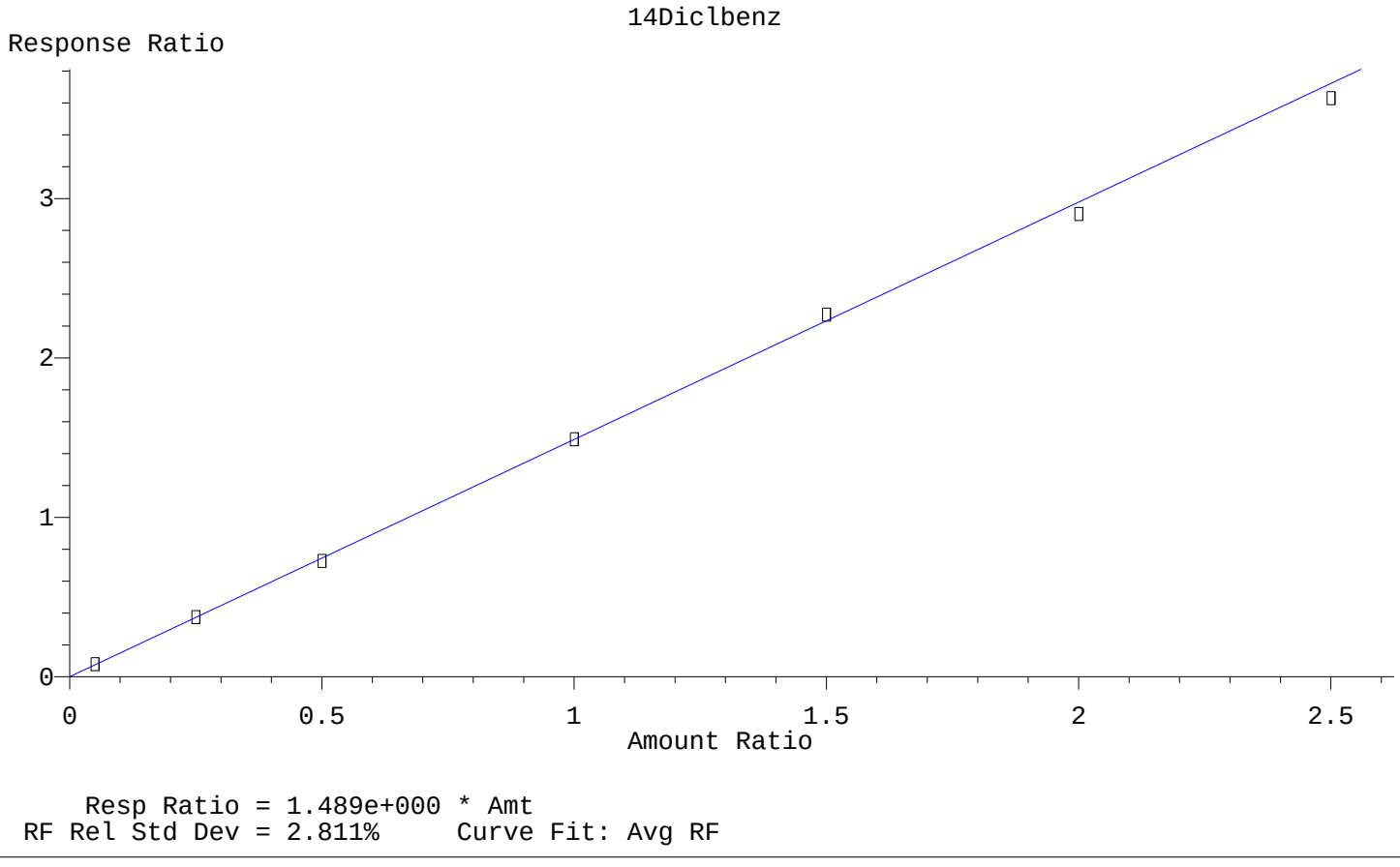
2-Cl-phenol



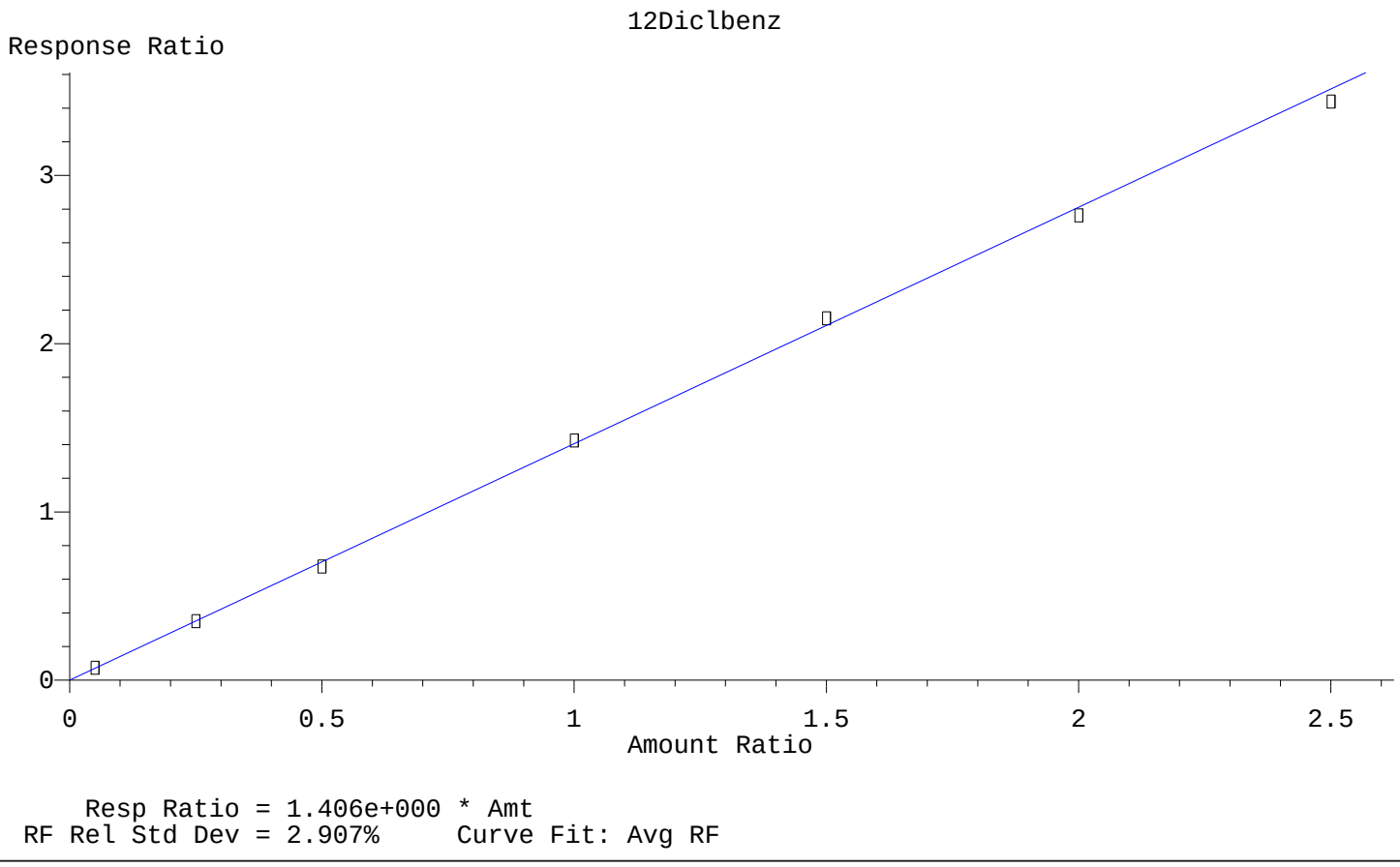

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RF Rel Std Dev = 2.963%  Curve Fit: Avg RF



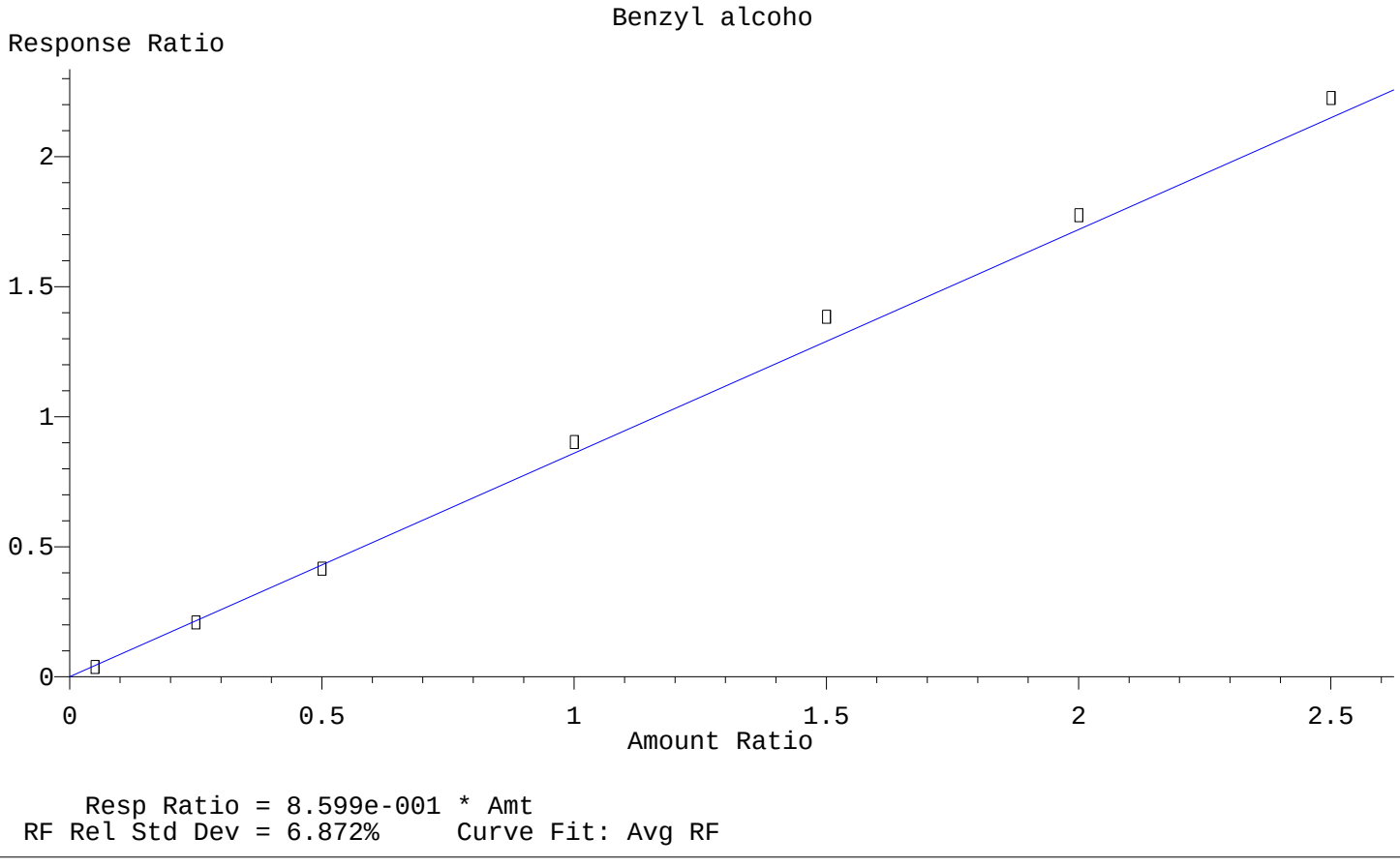

Resp Ratio = 1.455e+000 * Amt
RF Rel Std Dev = 2.158%  Curve Fit: Avg RF




Resp Ratio = 1.489e+000 * Amt
RF Rel Std Dev = 2.811%  Curve Fit: Avg RF

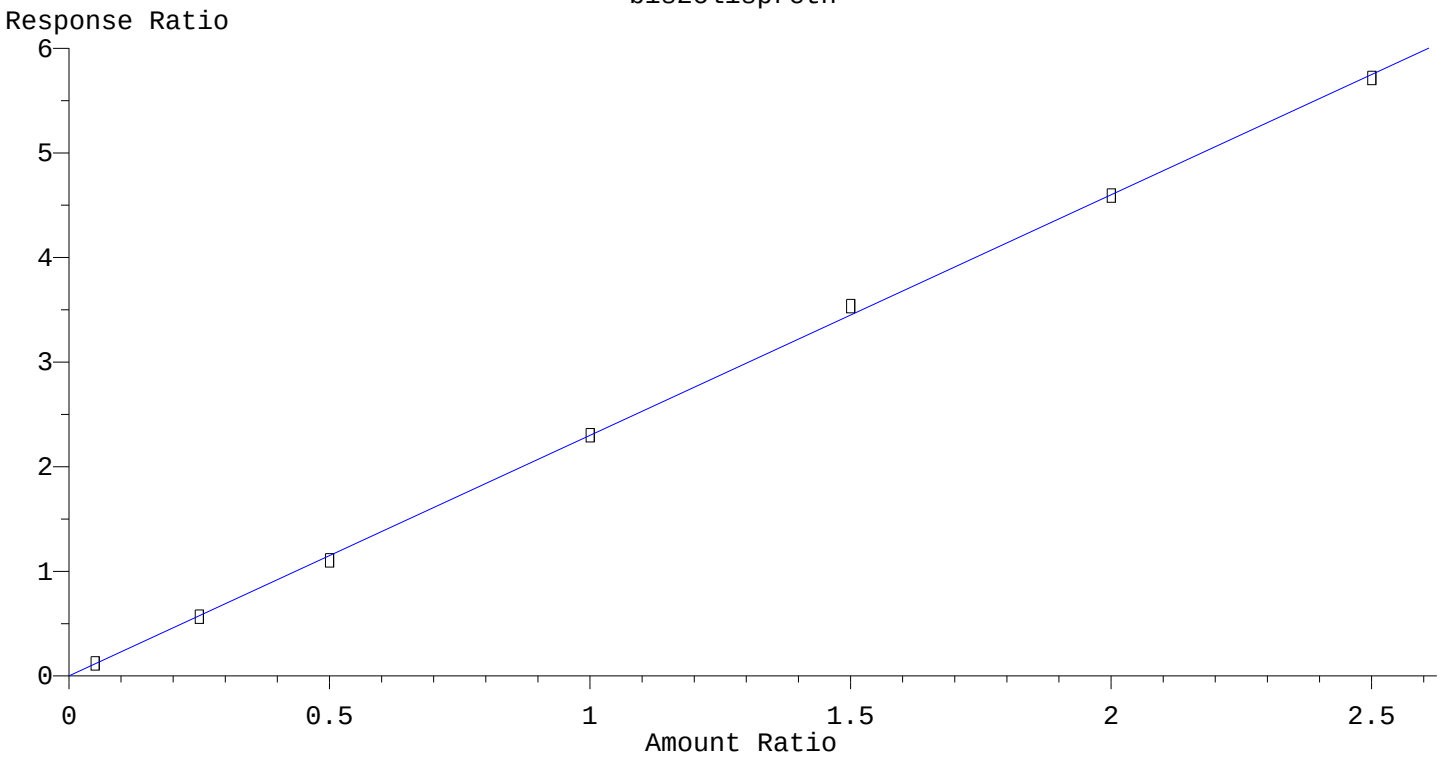



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RF Rel Std Dev = 2.907%  Curve Fit: Avg RF



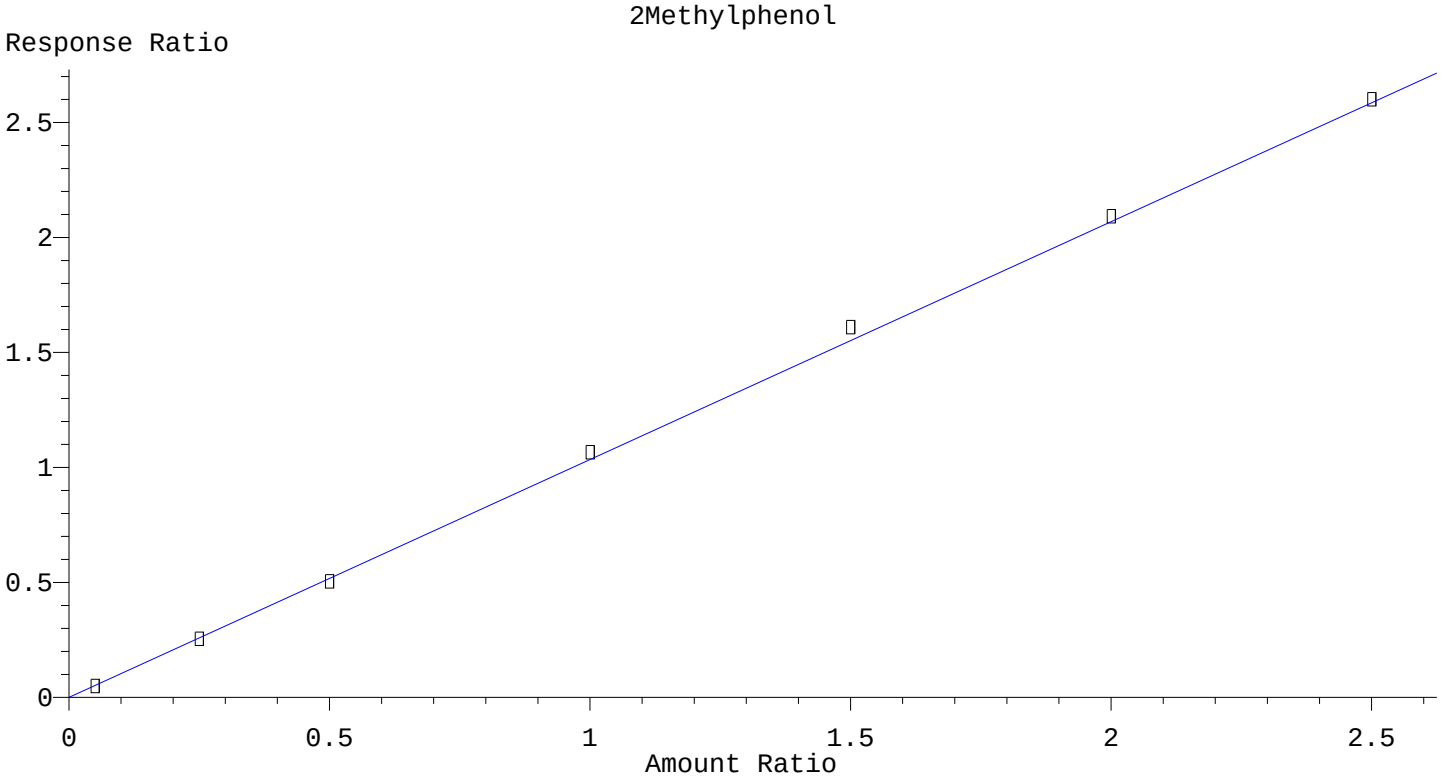

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RF Rel Std Dev = 6.872%  Curve Fit: Avg RF

bis2clispreth

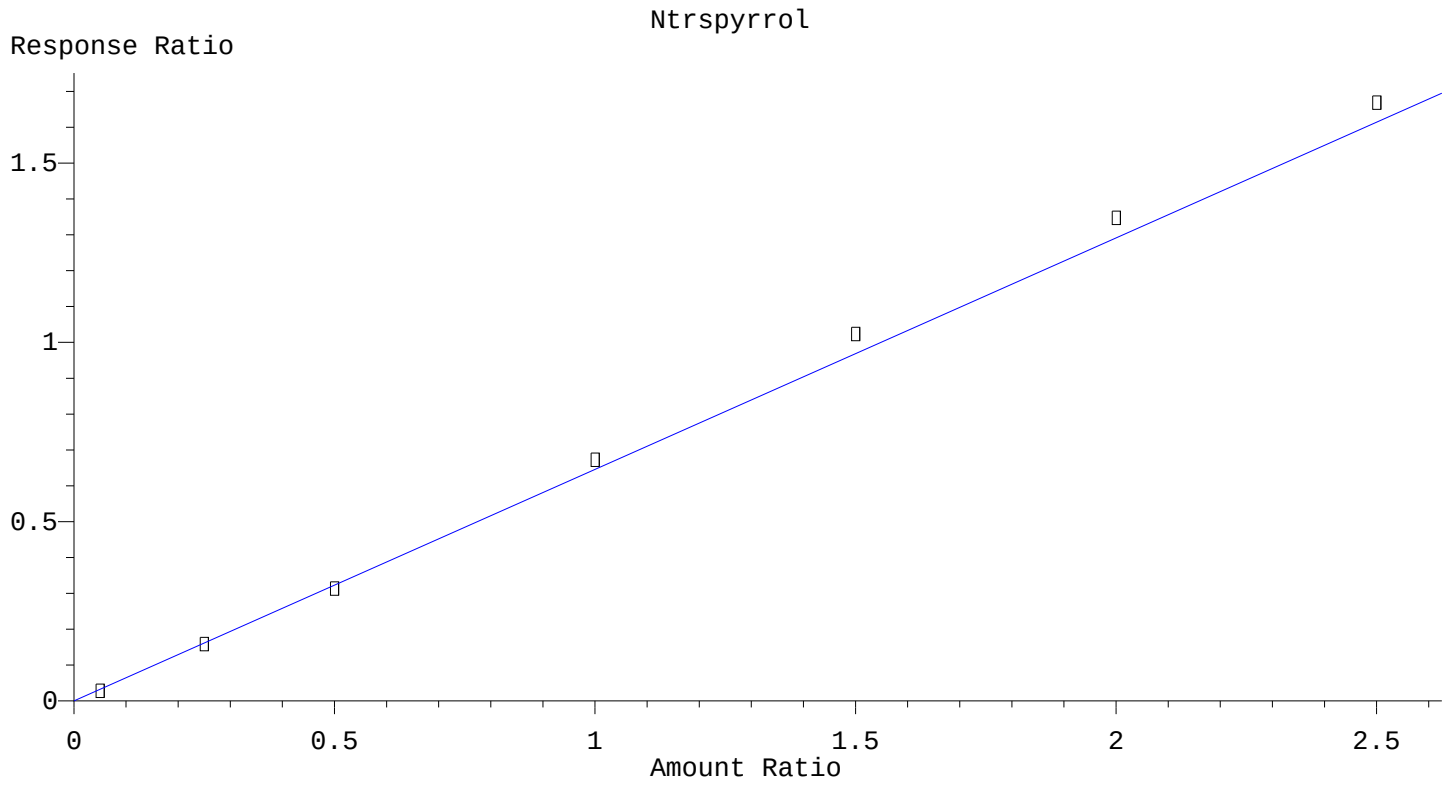



Resp Ratio = 2.300e+000 * Amt
RF Rel Std Dev = 2.567%  Curve Fit: Avg RF

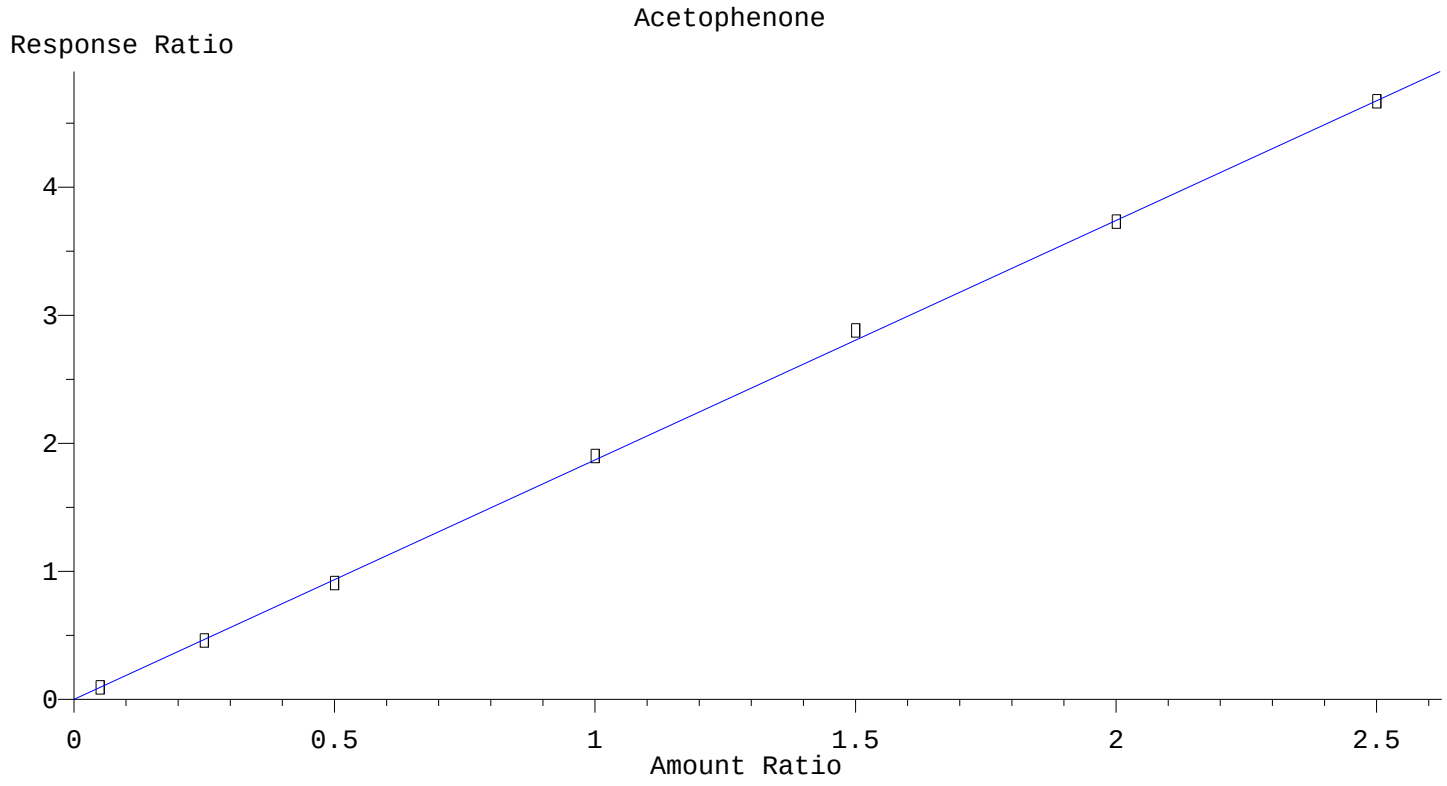
2Methylphenol




Resp Ratio = 1.034e+000 * Amt
RF Rel Std Dev = 3.038%  Curve Fit: Avg RF

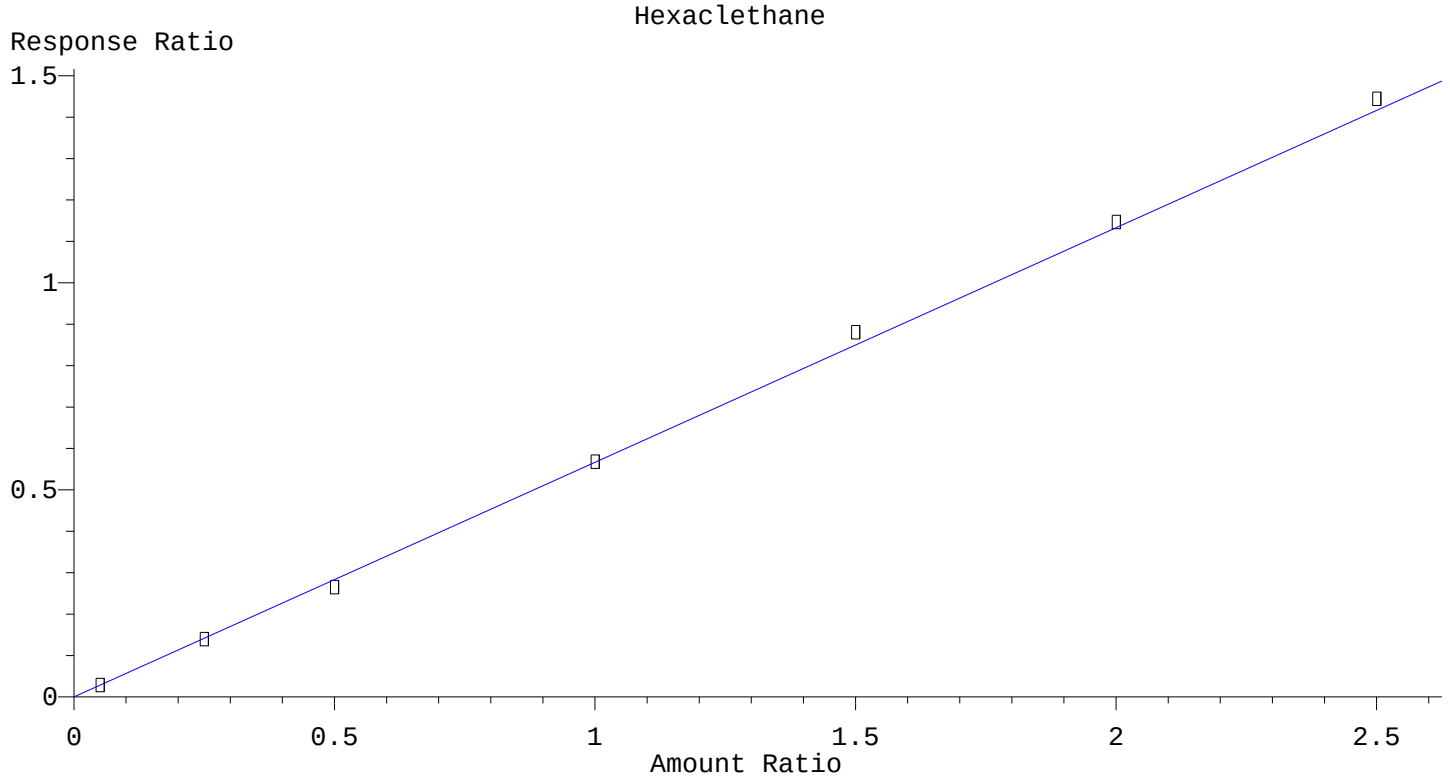



Resp Ratio = 6.456e-001 * Amt
RF Rel Std Dev = 6.477%  Curve Fit: Avg RF



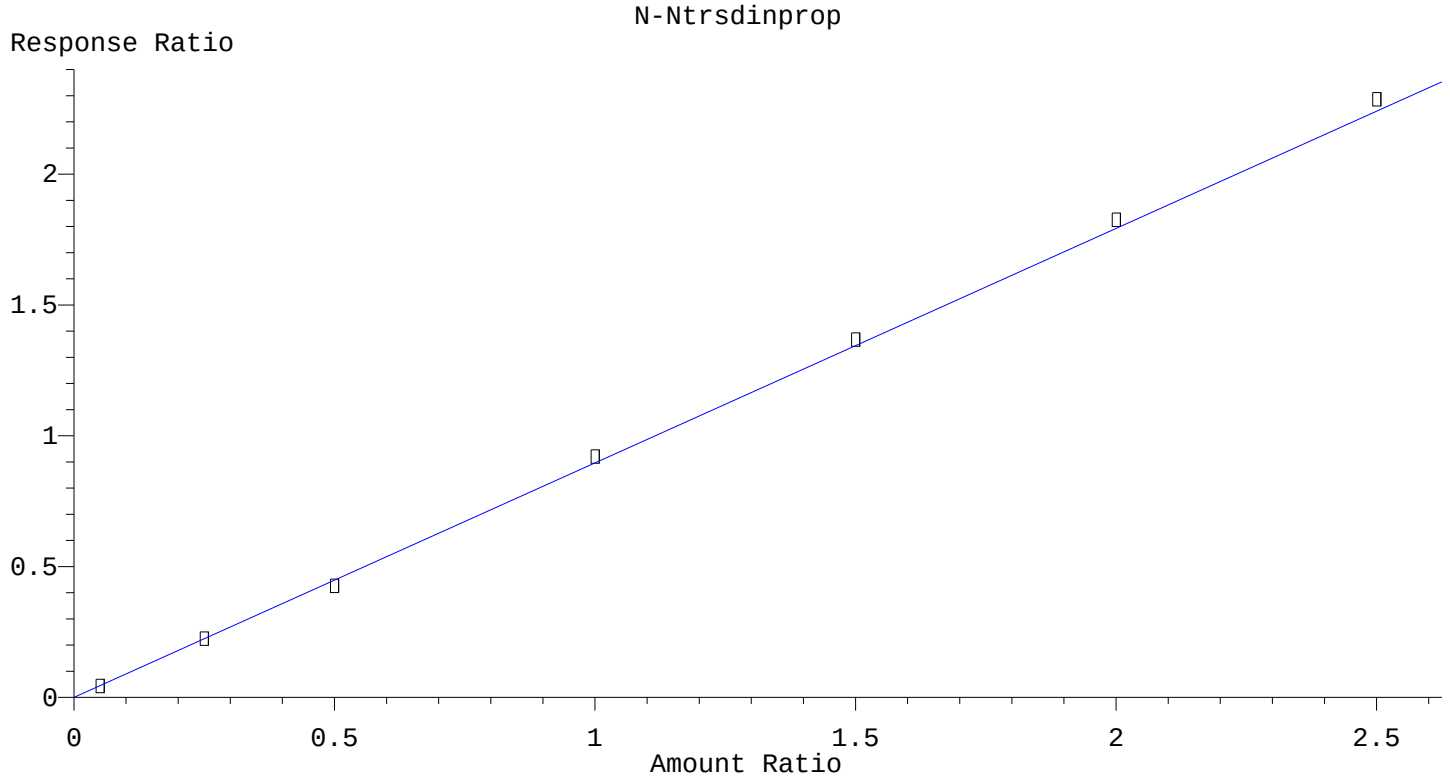

Resp Ratio = 1.871e+000 * Amt
RF Rel Std Dev = 1.896%  Curve Fit: Avg RF

Hexaclethane

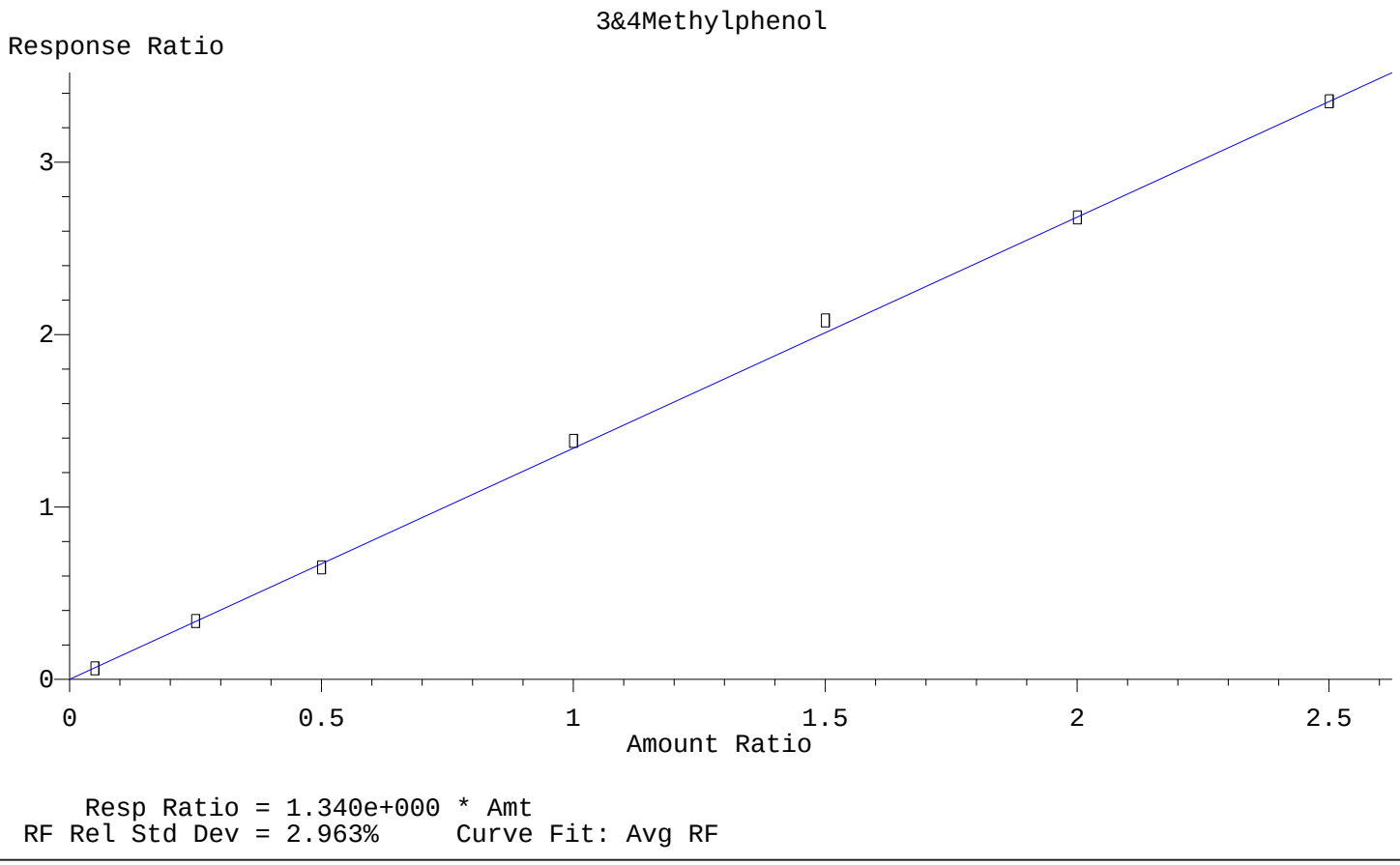



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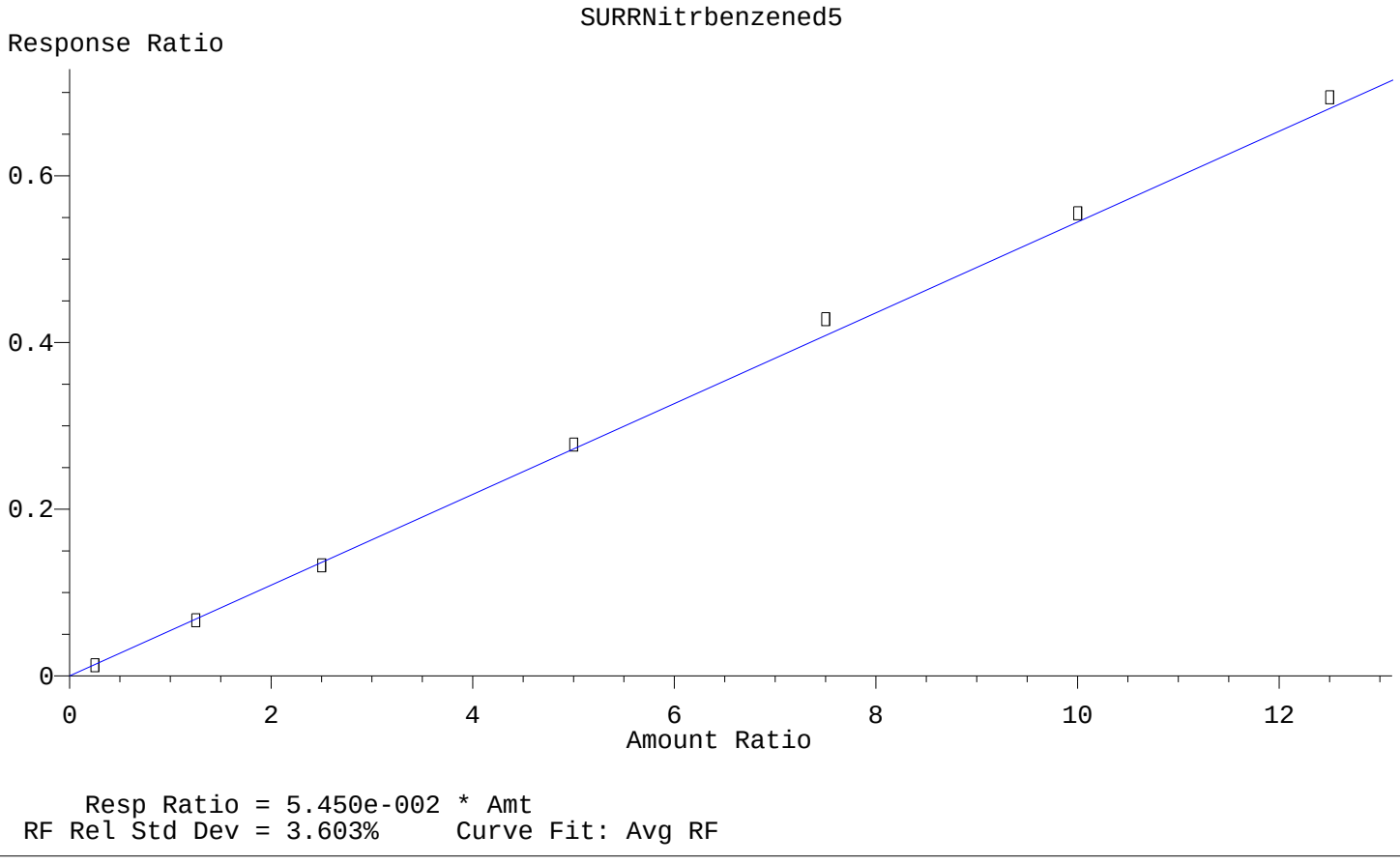
N-Ntrsdinprop



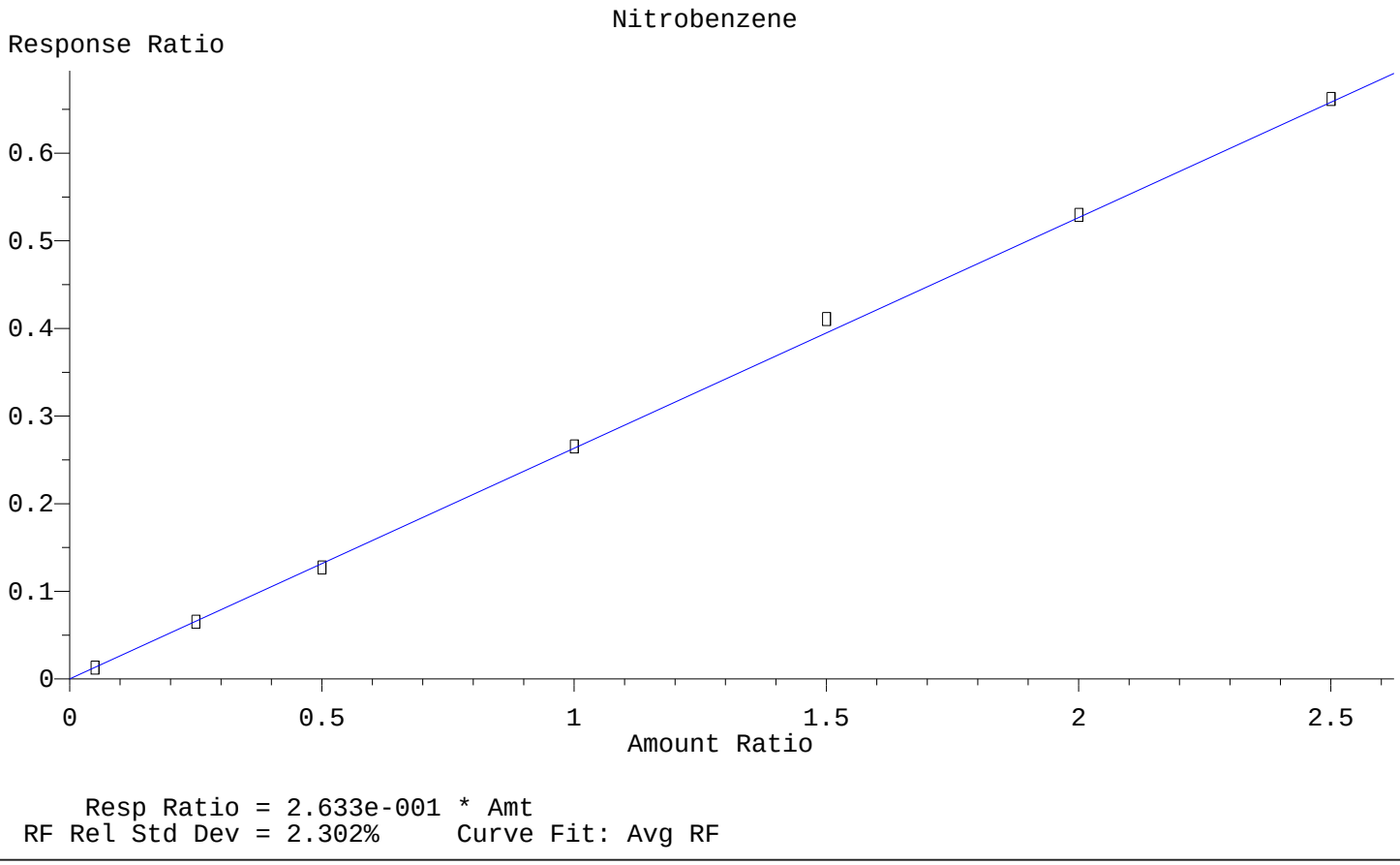

Resp Ratio = 8.962e-001 * Amt
RF Rel Std Dev = 3.034%  Curve Fit: Avg RF



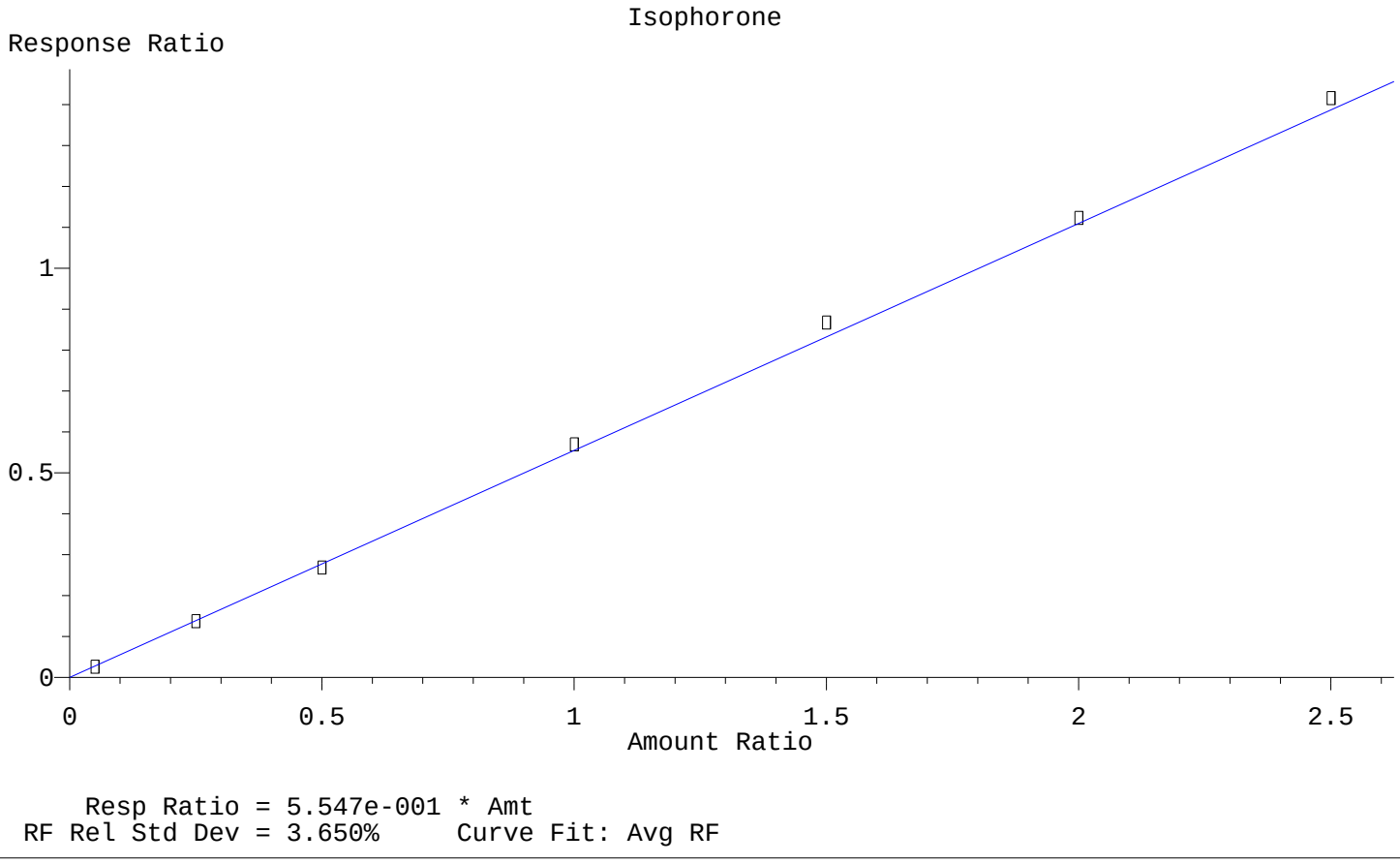

Resp Ratio = 1.340e+000 * Amt
RF Rel Std Dev = 2.963%  Curve Fit: Avg RF



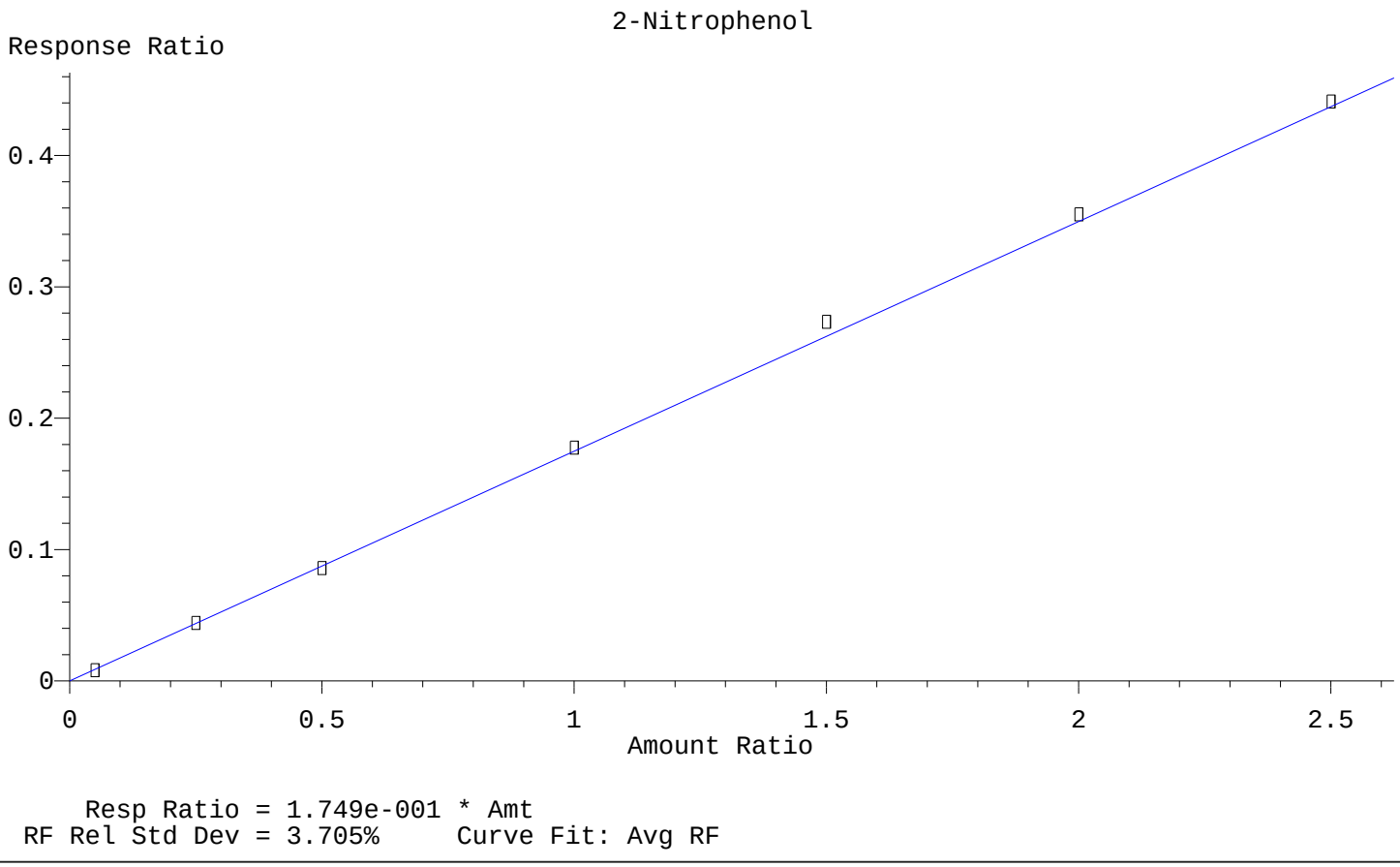

Resp Ratio = 5.450e-002 * Amt
RF Rel Std Dev = 3.603%  Curve Fit: Avg RF



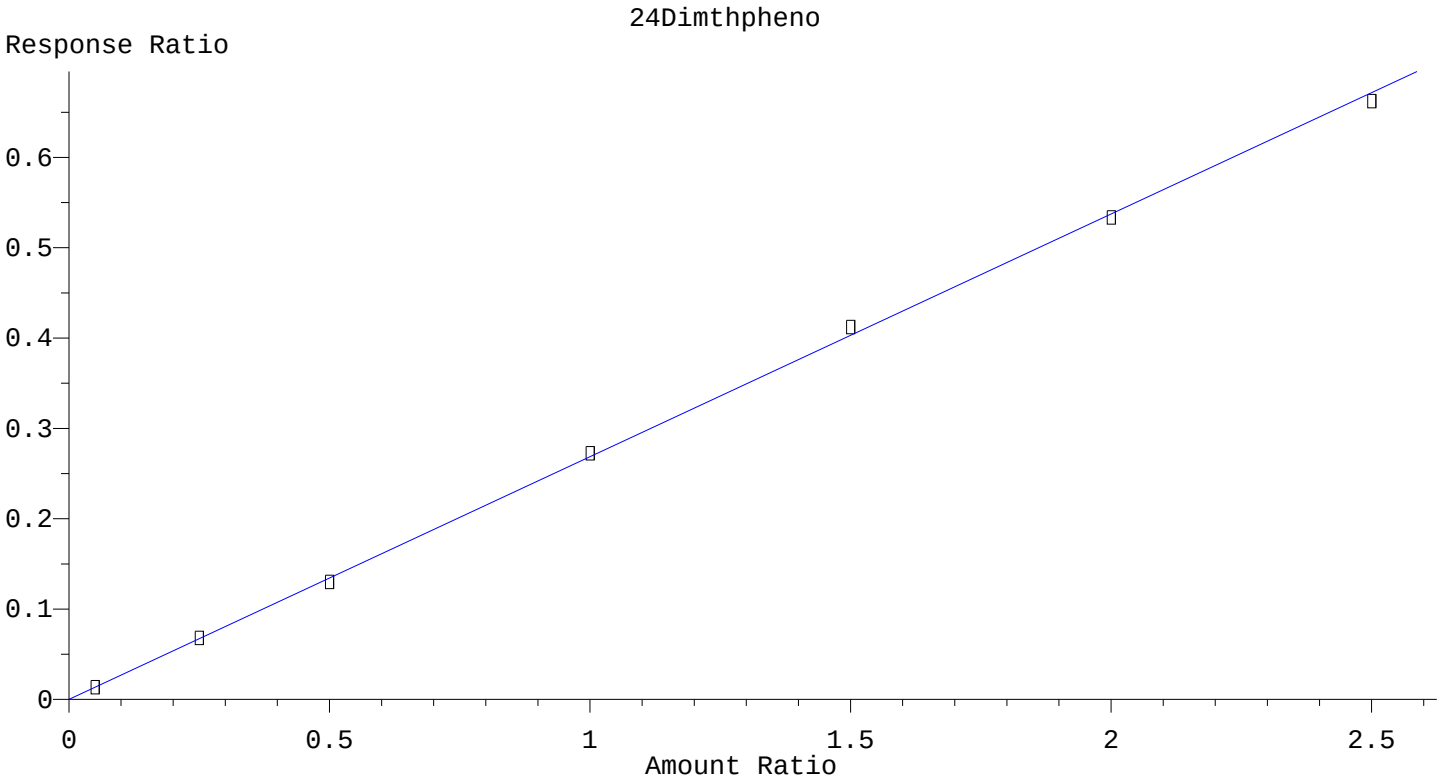

Resp Ratio = 2.633e-001 * Amt
RF Rel Std Dev = 2.302%  Curve Fit: Avg RF



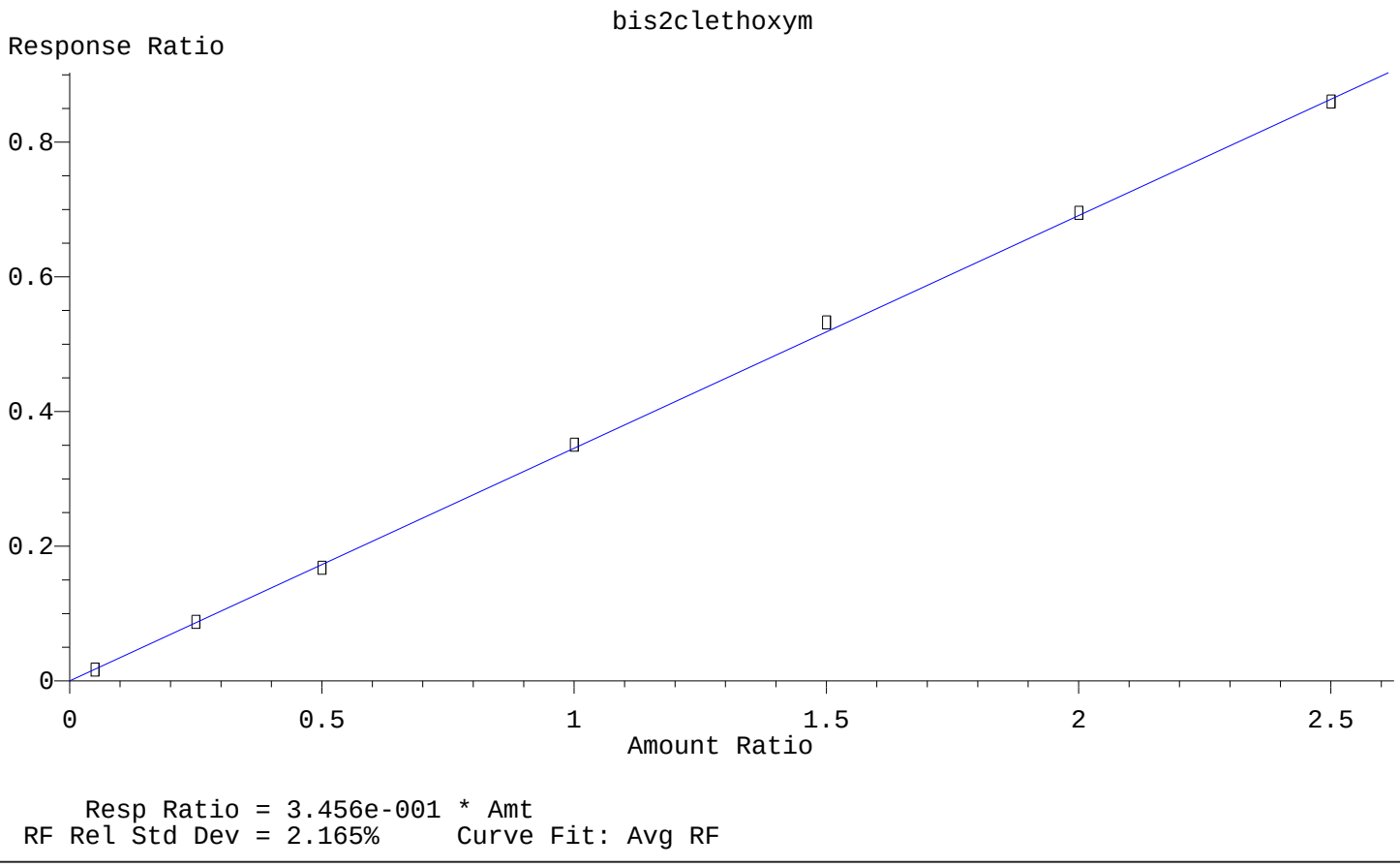

Resp Ratio = 5.547e-001 * Amt
RF Rel Std Dev = 3.650%  Curve Fit: Avg RF



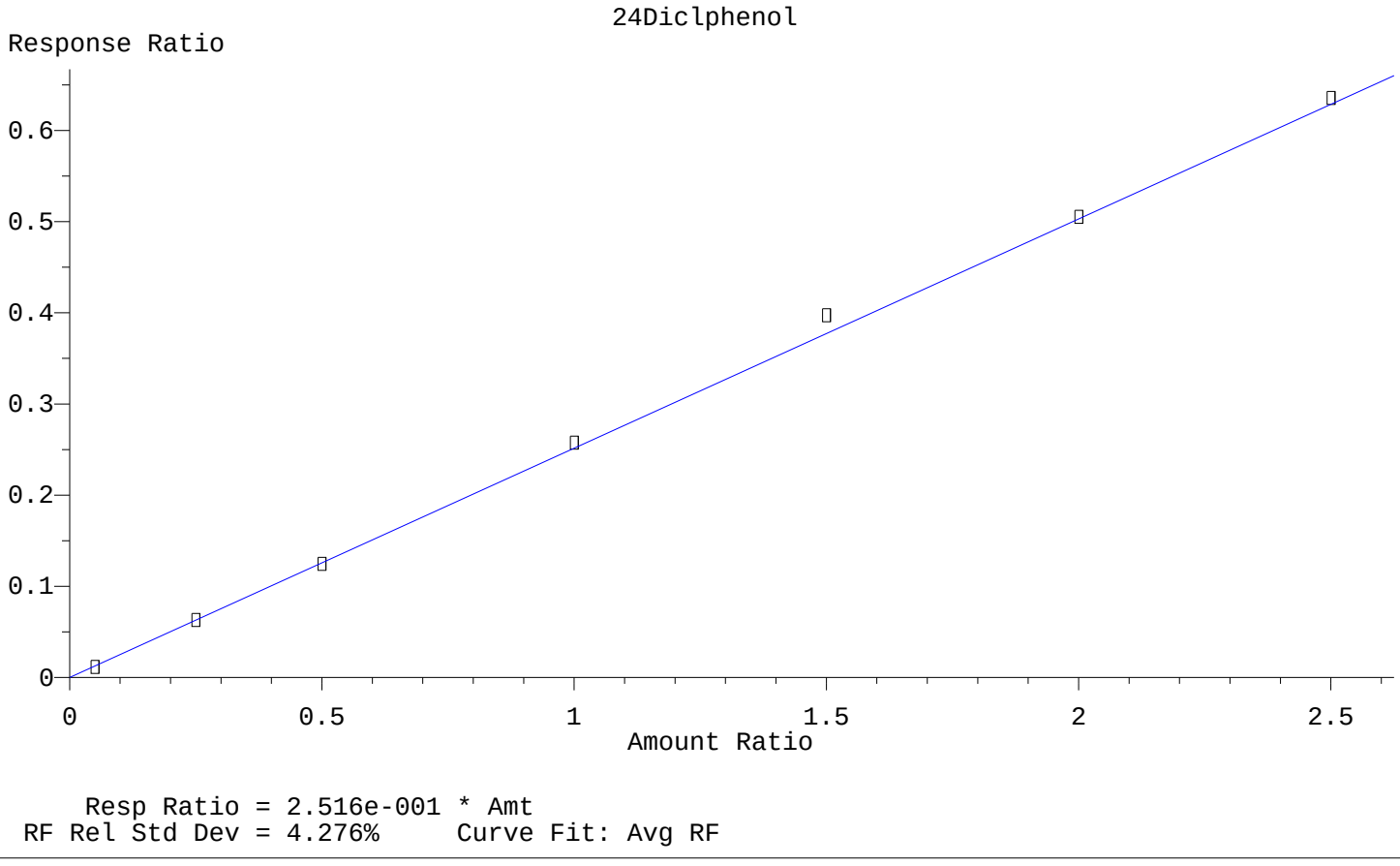

Resp Ratio = 1.749e-001 * Amt
RF Rel Std Dev = 3.705%  Curve Fit: Avg RF



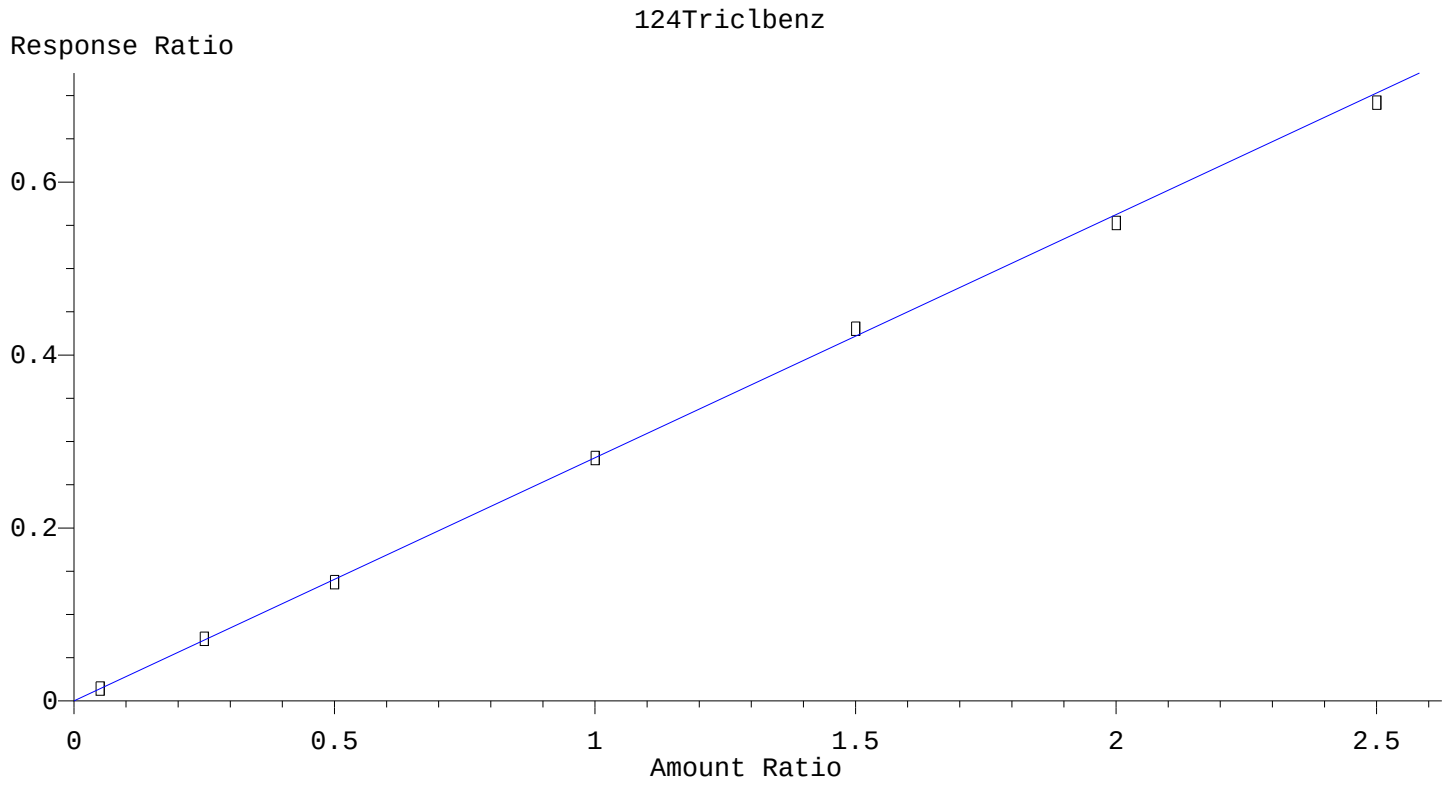

Resp Ratio = 2.688e-001 * Amt
RF Rel Std Dev = 1.930%  Curve Fit: Avg RF



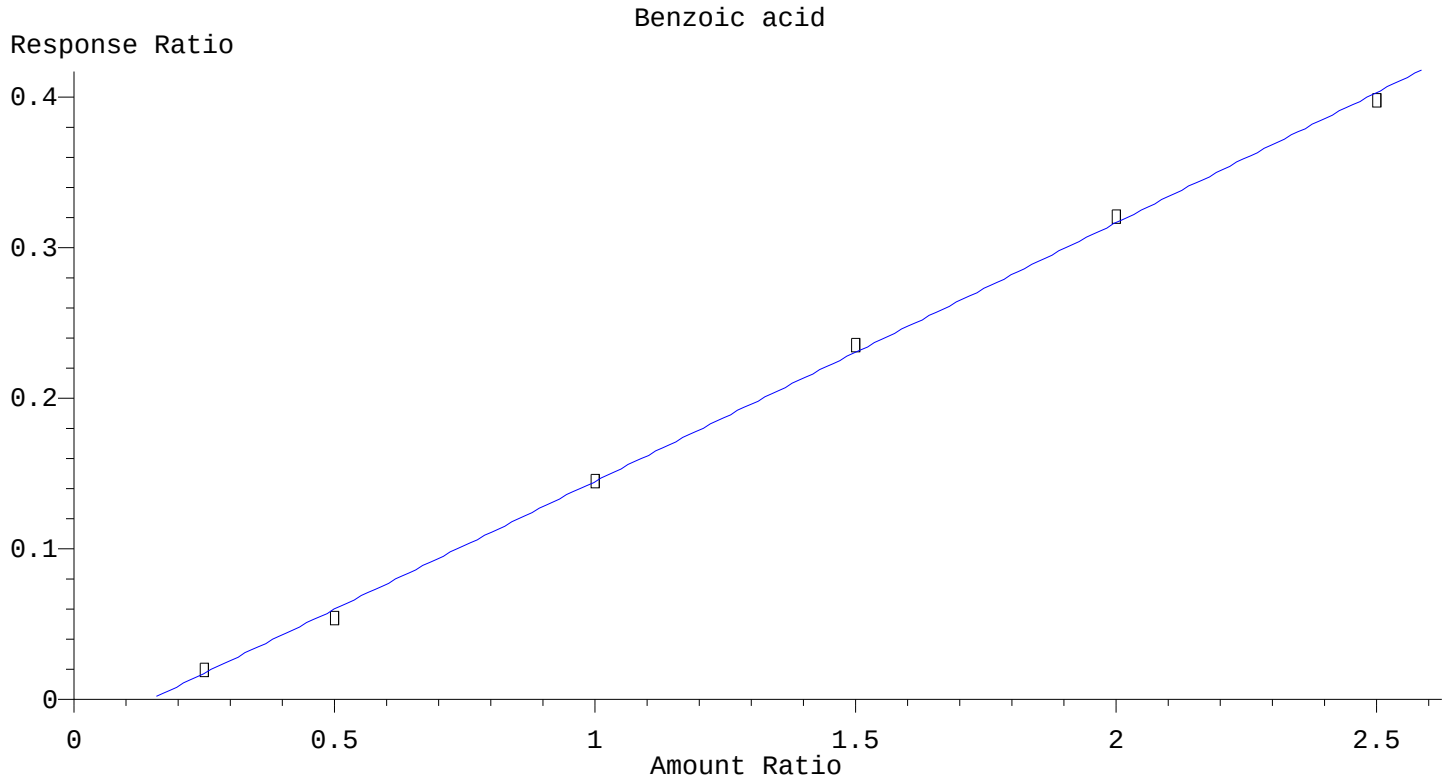

Resp Ratio = 3.456e-001 * Amt
RF Rel Std Dev = 2.165%  Curve Fit: Avg RF



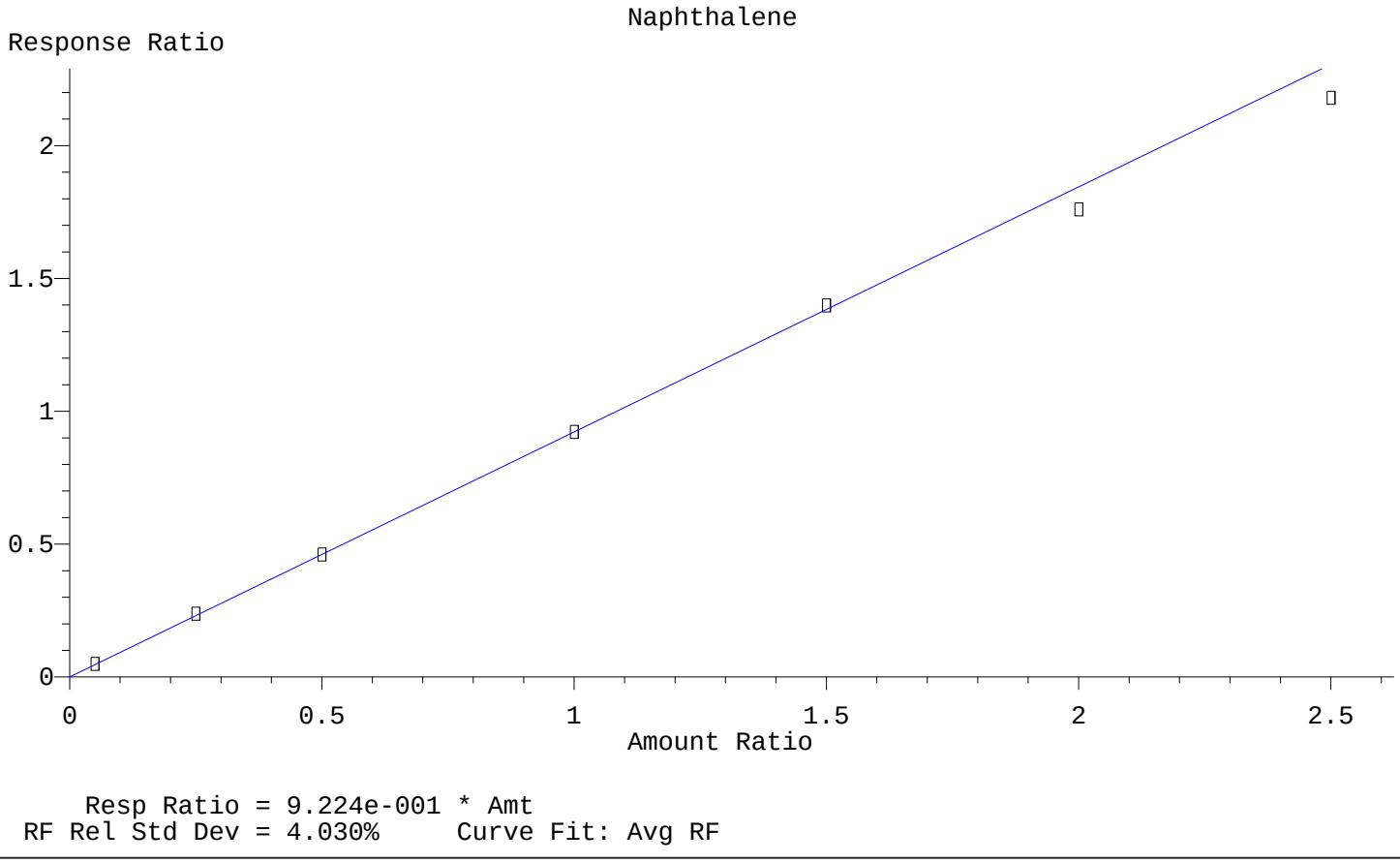

Resp Ratio = 2.516e-001 * Amt
RF Rel Std Dev = 4.276%  Curve Fit: Avg RF



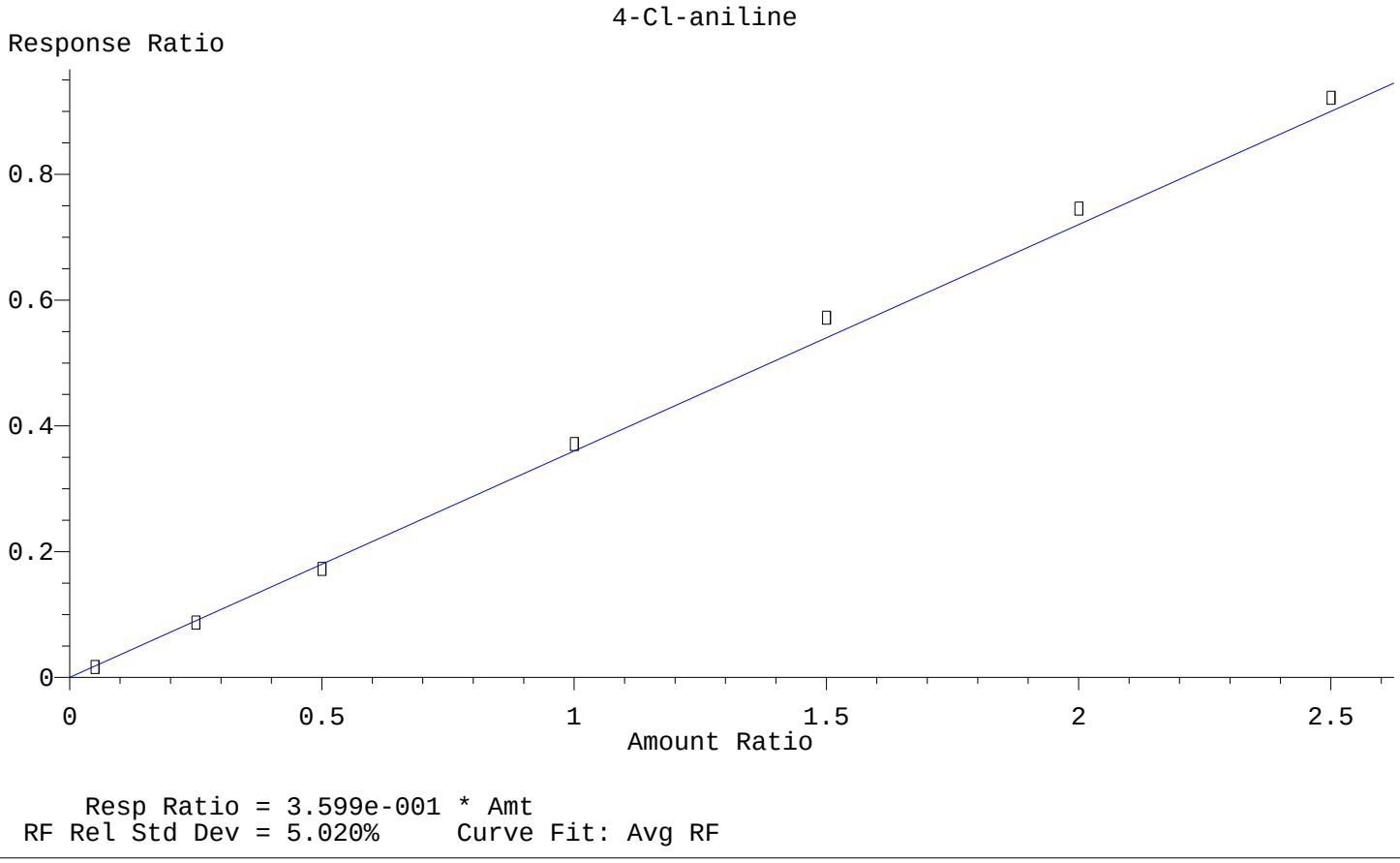

Resp Ratio = 2.813e-001 * Amt
RF Rel Std Dev = 1.960%  Curve Fit: Avg RF



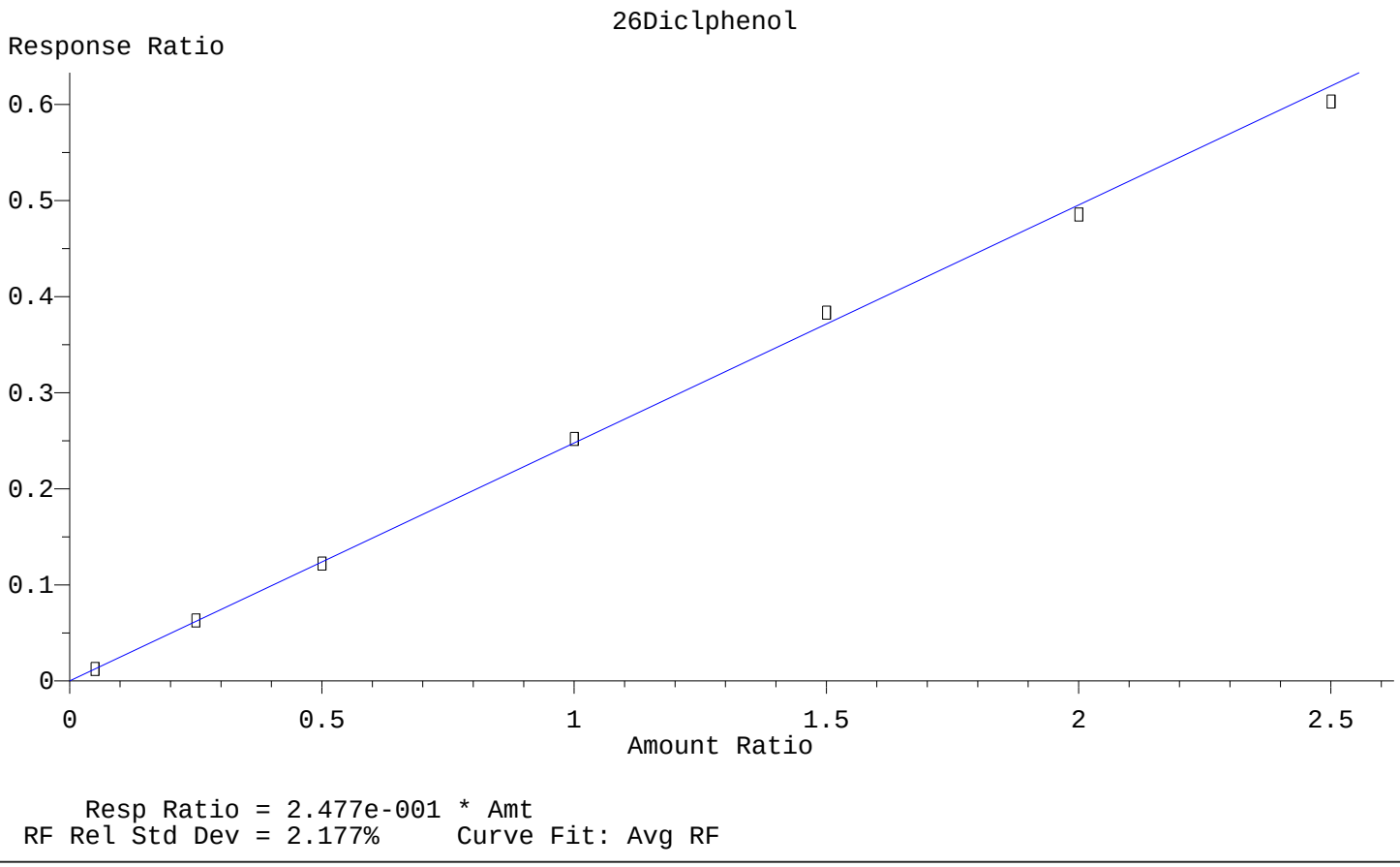

R = 9.936e-004 A*A + 1.687e-001 A - 2.477e-002
Coef of Det (r^2) = 0.999  Curve Fit: Quadratic w(1/a)



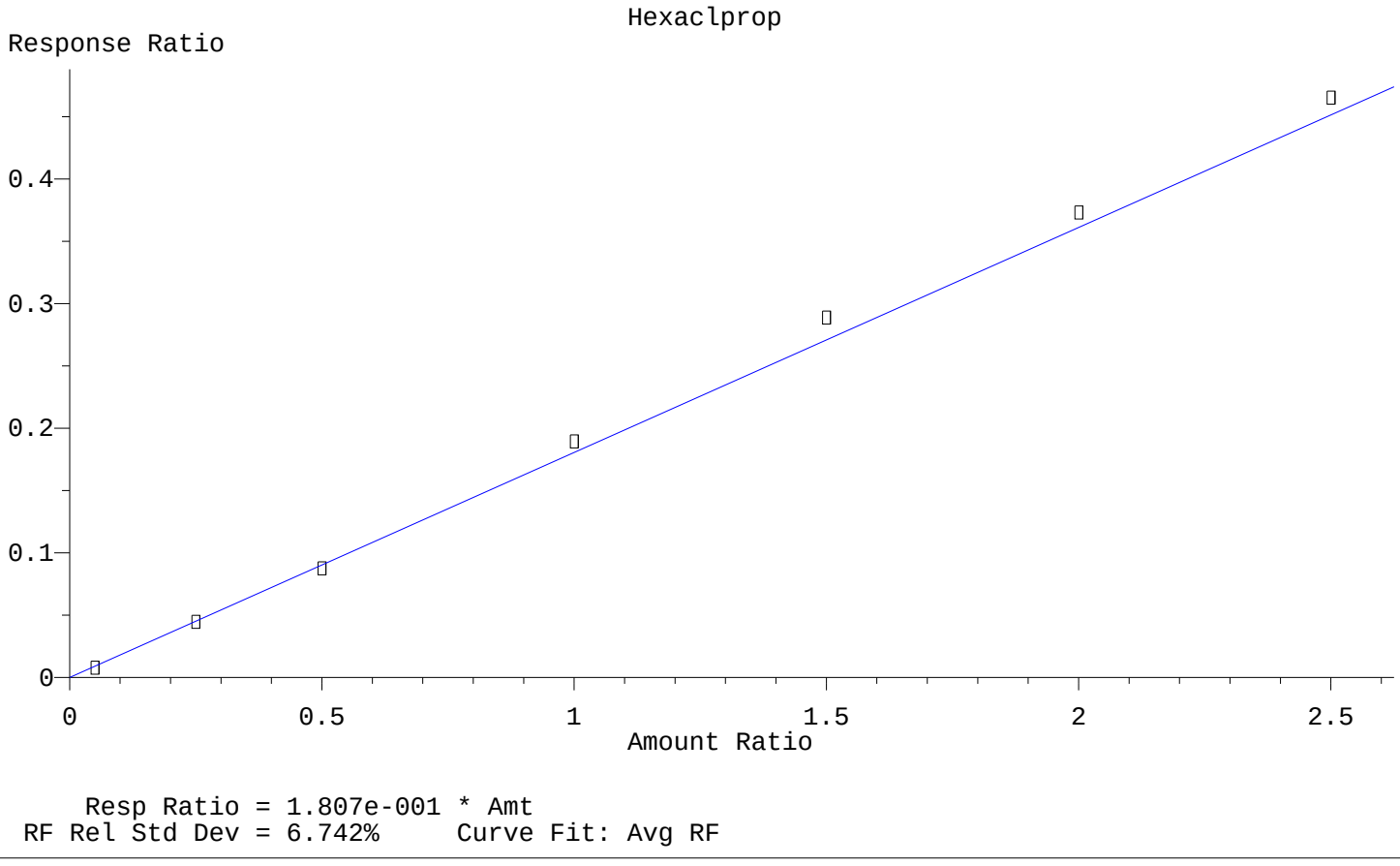

Resp Ratio = 9.224e-001 * Amt
RF Rel Std Dev = 4.030%  Curve Fit: Avg RF



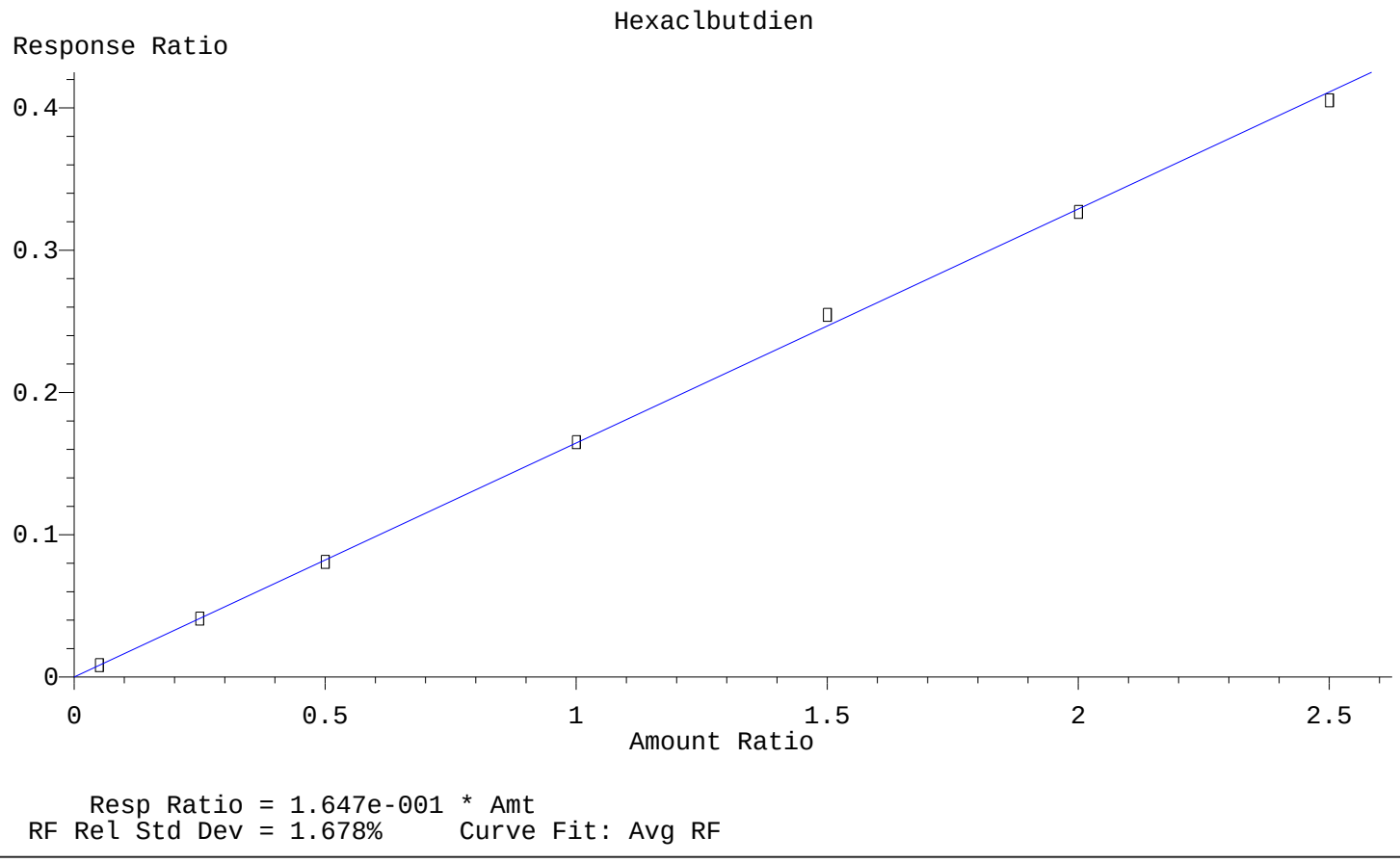

Resp Ratio = 3.599e-001 * Amt
RF Rel Std Dev = 5.020%  Curve Fit: Avg RF



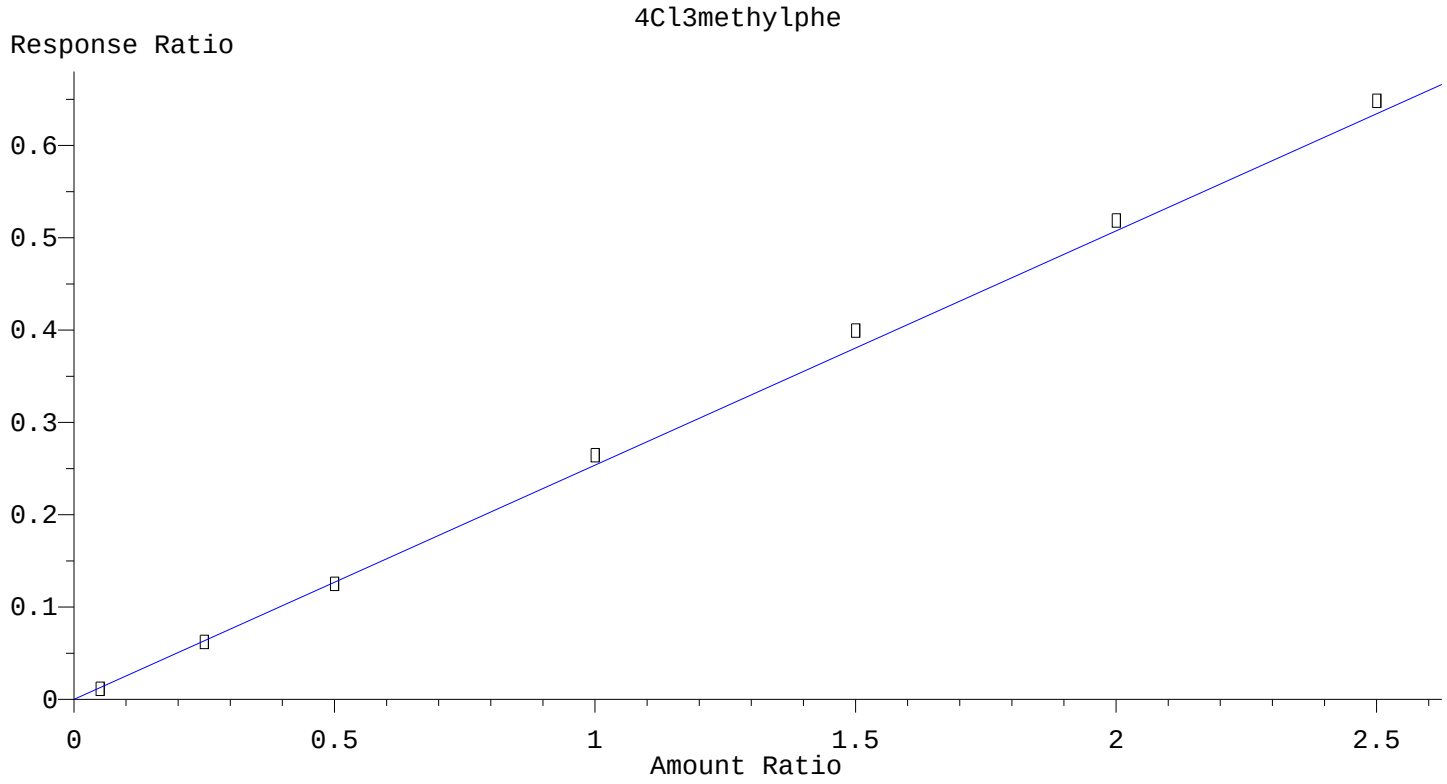

Resp Ratio = 2.477e-001 * Amt
RF Rel Std Dev = 2.177% Curve Fit: Avg RF



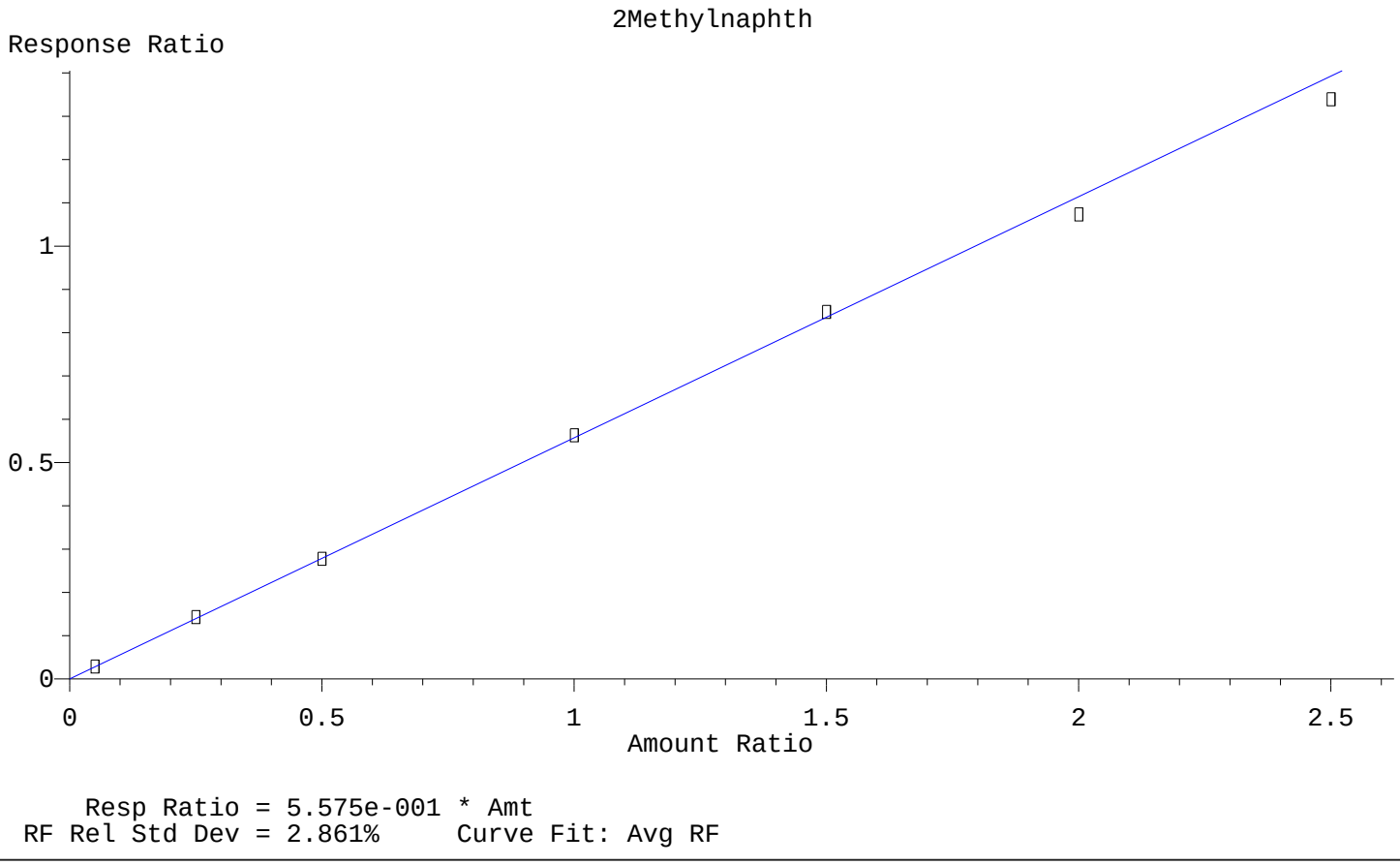

Resp Ratio = 1.807e-001 * Amt
RF Rel Std Dev = 6.742% Curve Fit: Avg RF



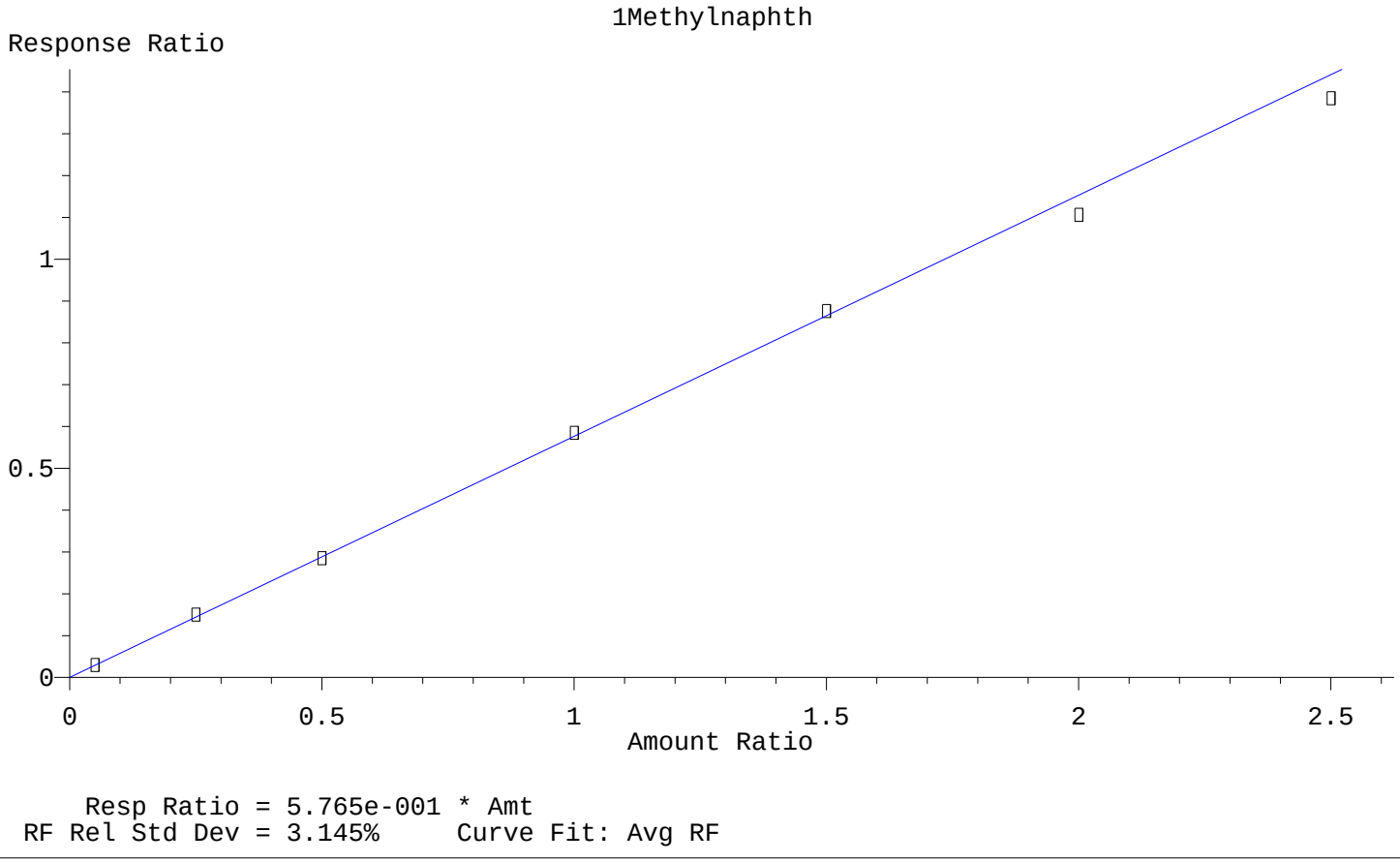

Resp Ratio = 1.647e-001 * Amt
RF Rel Std Dev = 1.678%  Curve Fit: Avg RF




Resp Ratio = 2.537e-001 * Amt
RF Rel Std Dev = 5.230%  Curve Fit: Avg RF

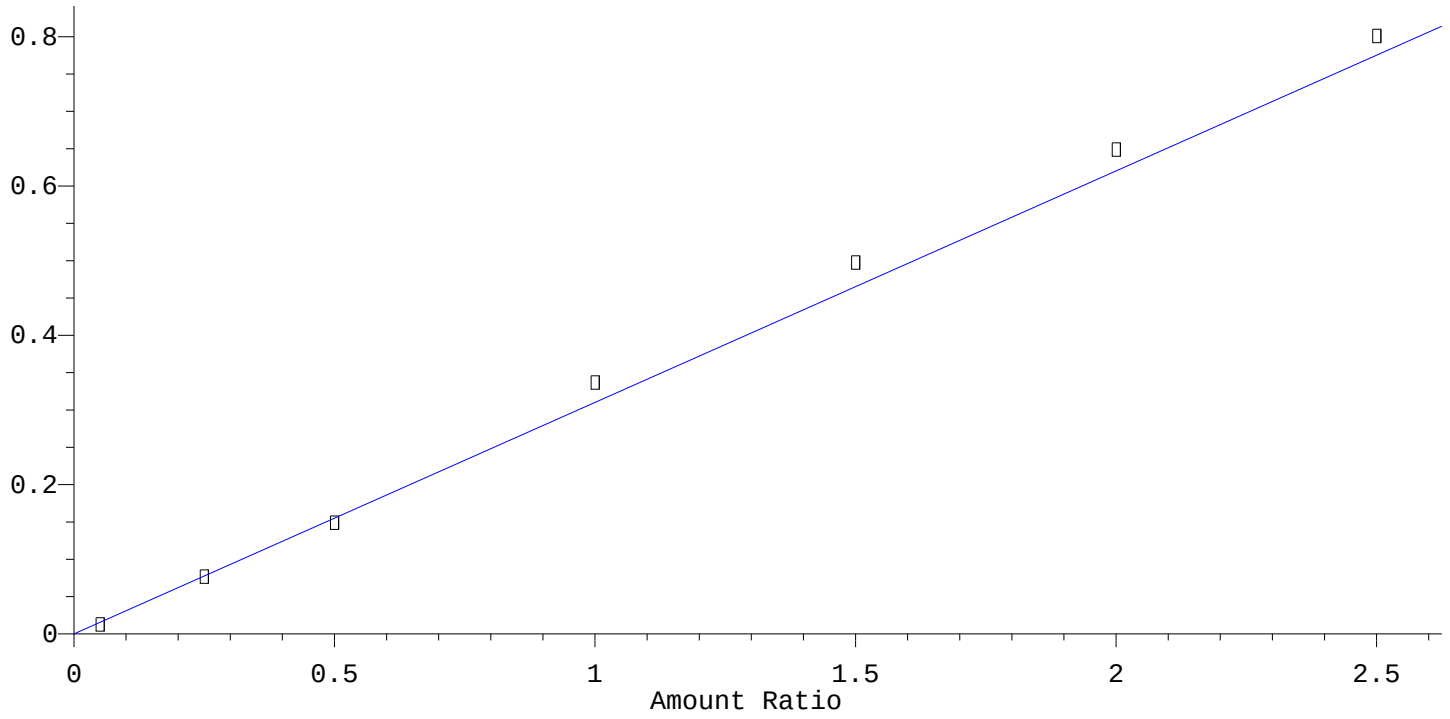



Resp Ratio = 5.575e-001 * Amt
RF Rel Std Dev = 2.861%  Curve Fit: Avg RF



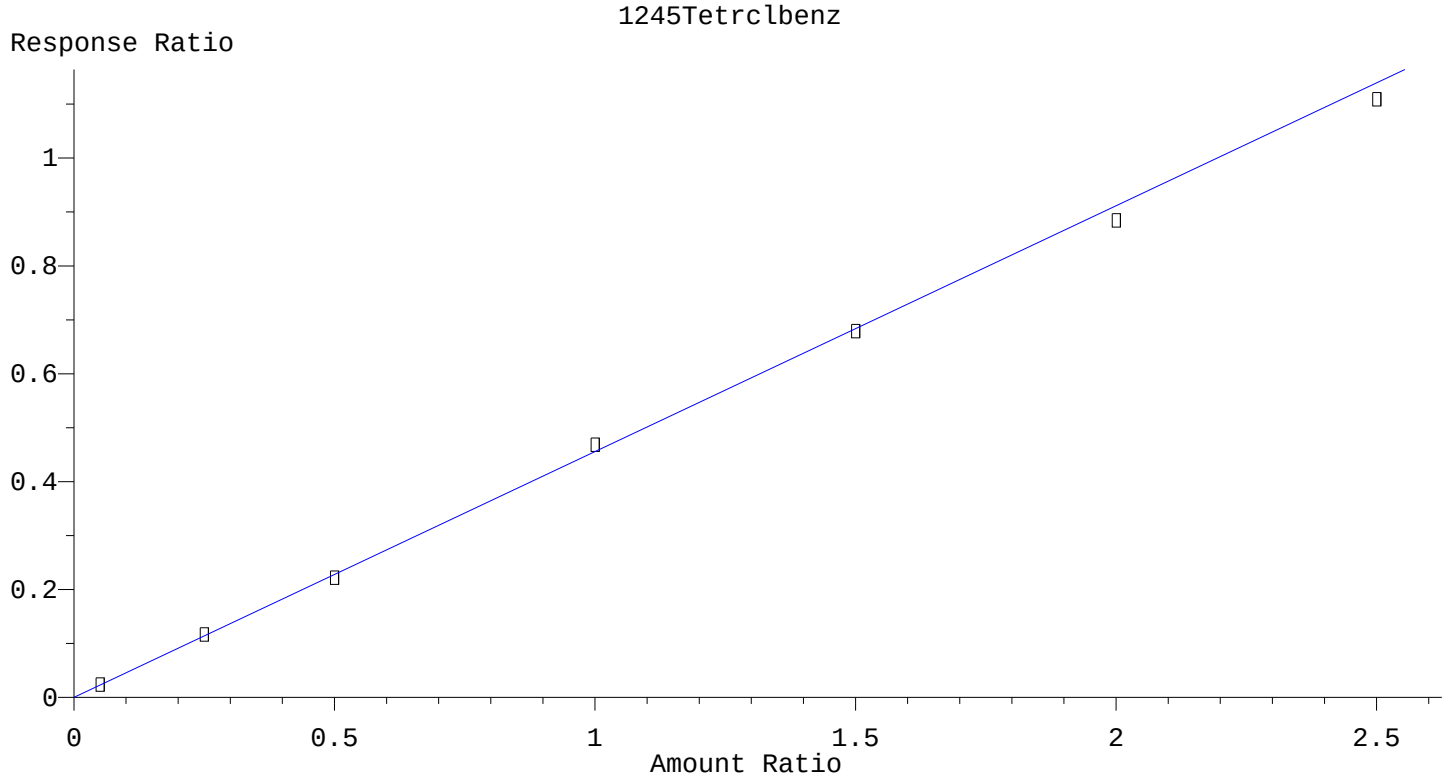

Resp Ratio = 5.765e-001 * Amt
RF Rel Std Dev = 3.145%  Curve Fit: Avg RF

Hxclcycpentdi

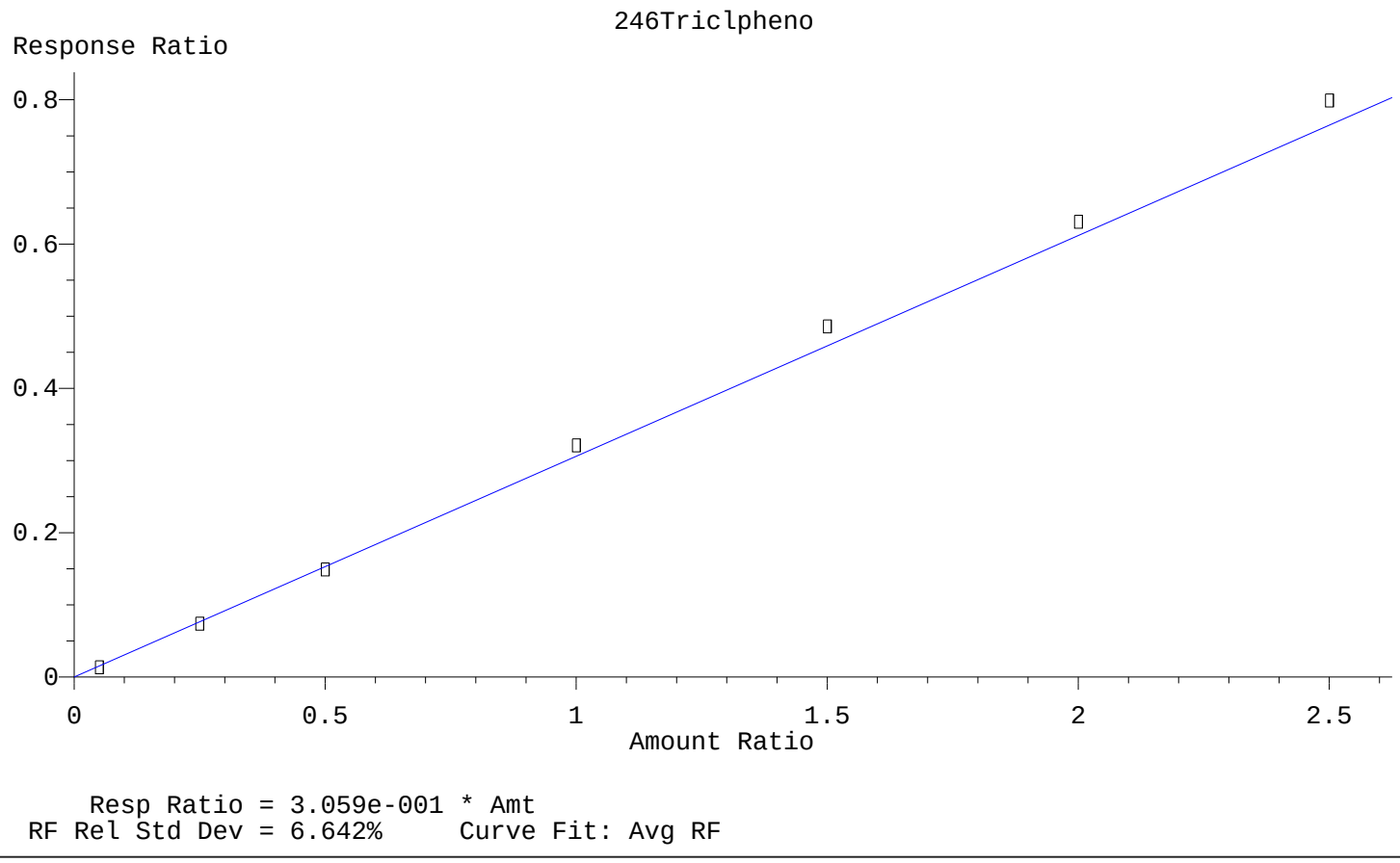



Resp Ratio = 3.100e-001 * Amt
RF Rel Std Dev = 9.266%  Curve Fit: Avg RF

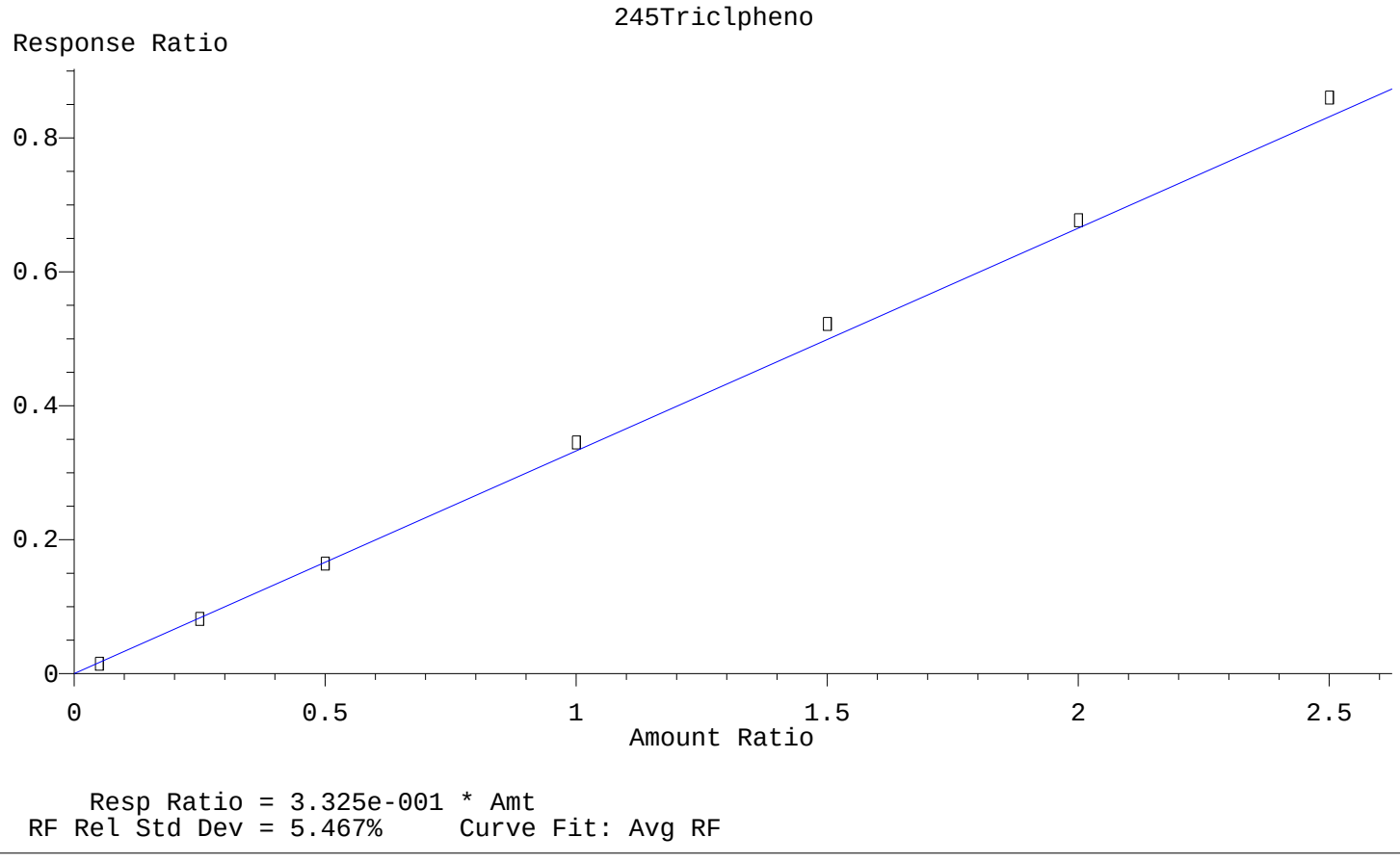
1245Tetrclbenz



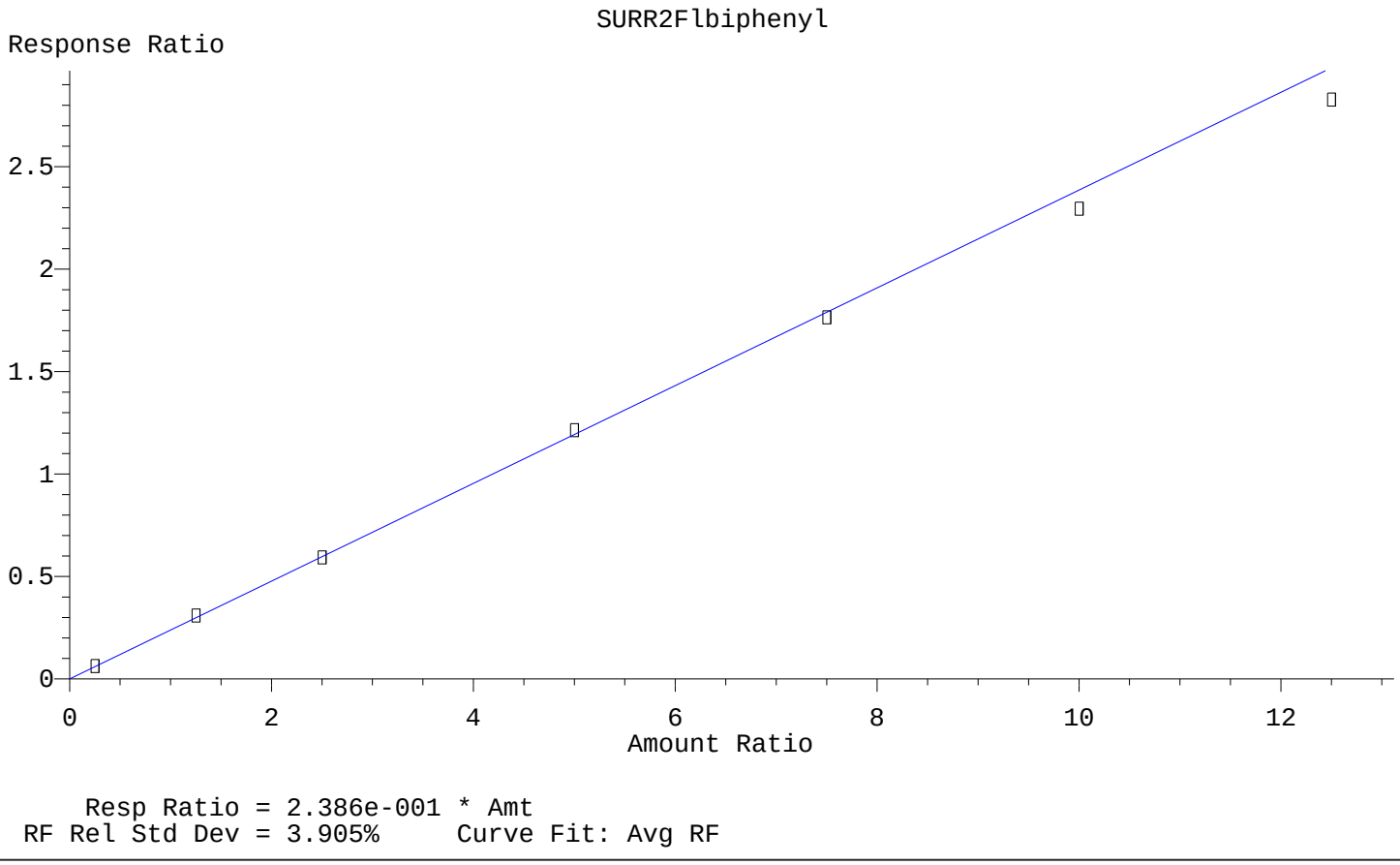

Resp Ratio = 4.558e-001 * Amt
RF Rel Std Dev = 2.962%  Curve Fit: Avg RF



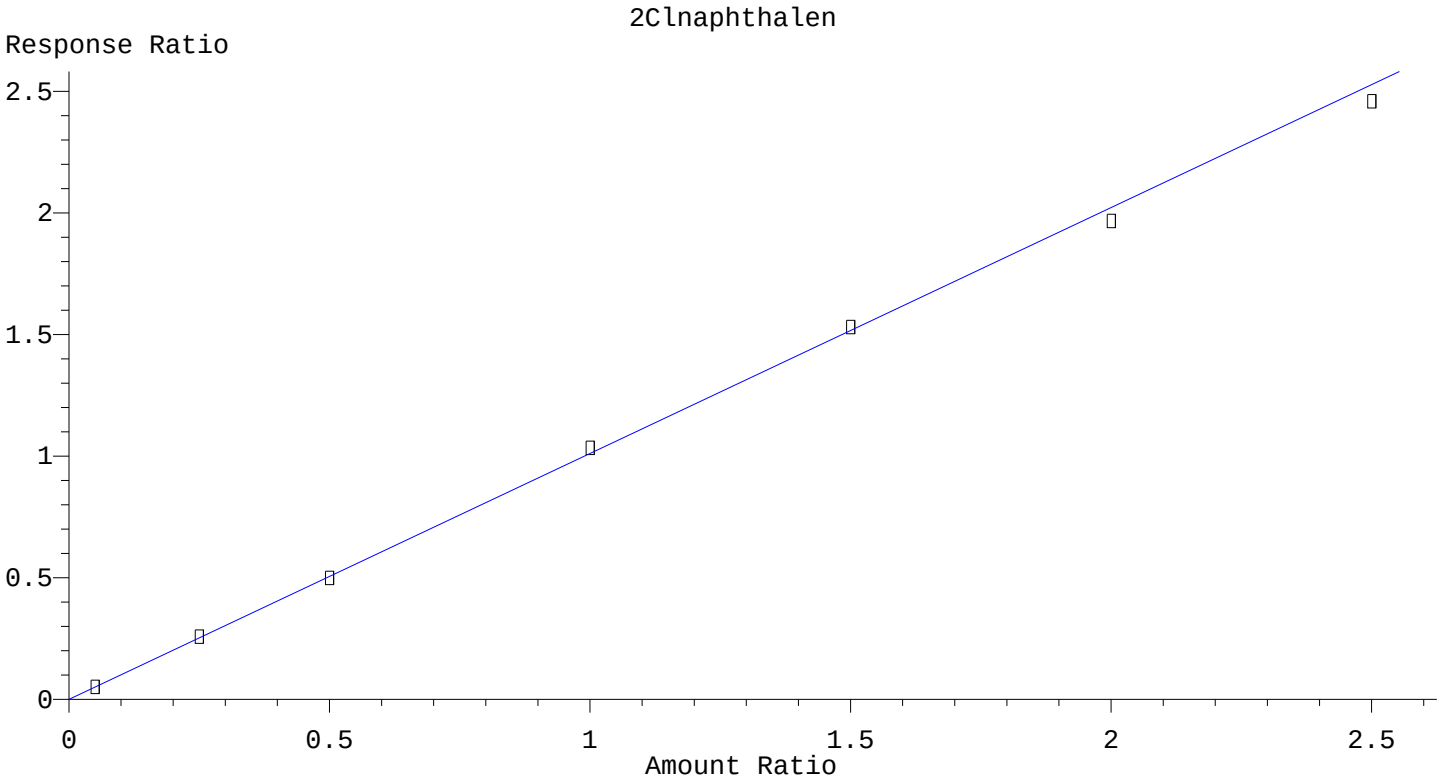

Resp Ratio = 3.059e-001 * Amt
RF Rel Std Dev = 6.642%  Curve Fit: Avg RF



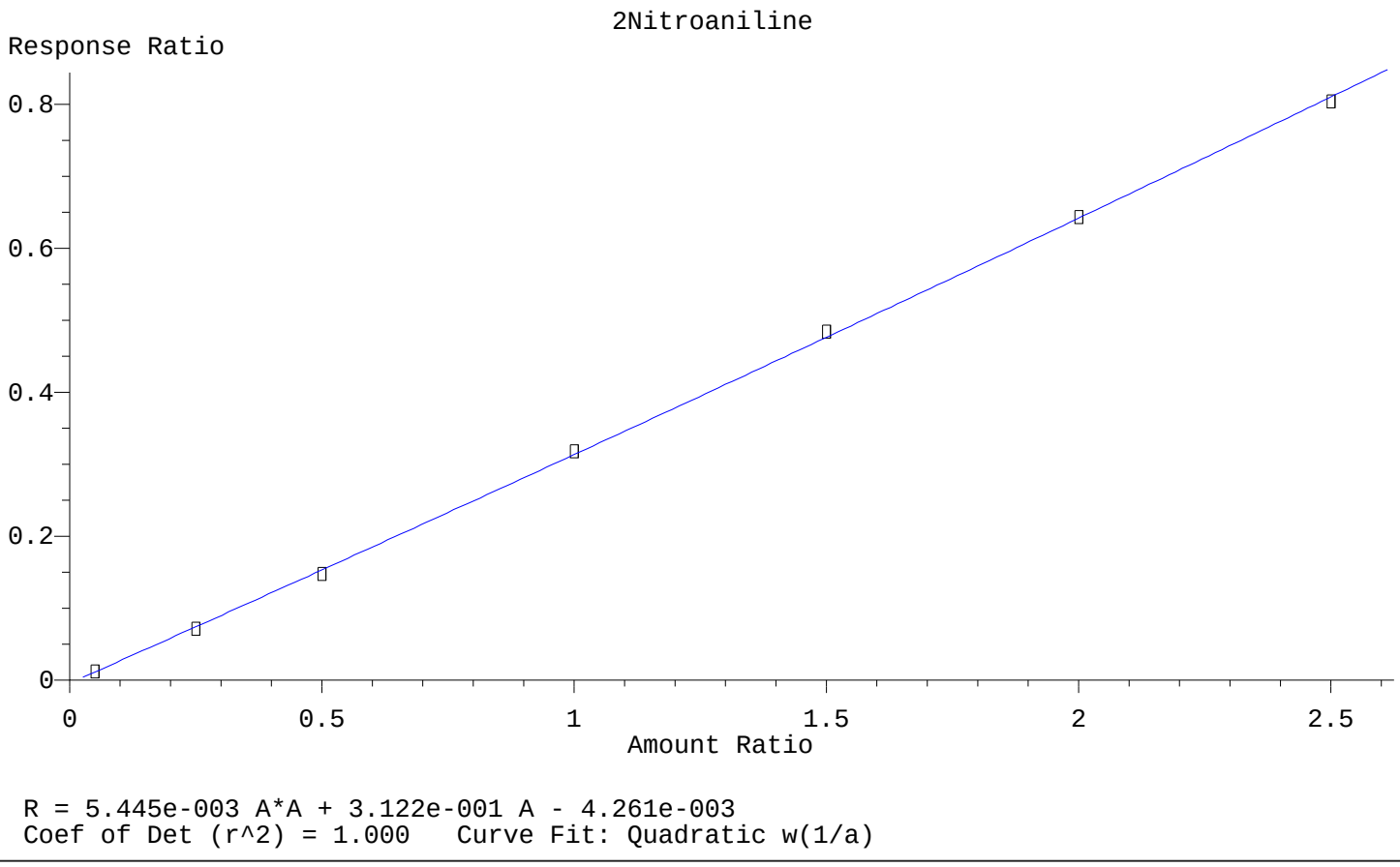

Resp Ratio = 3.325e-001 * Amt
RF Rel Std Dev = 5.467%  Curve Fit: Avg RF



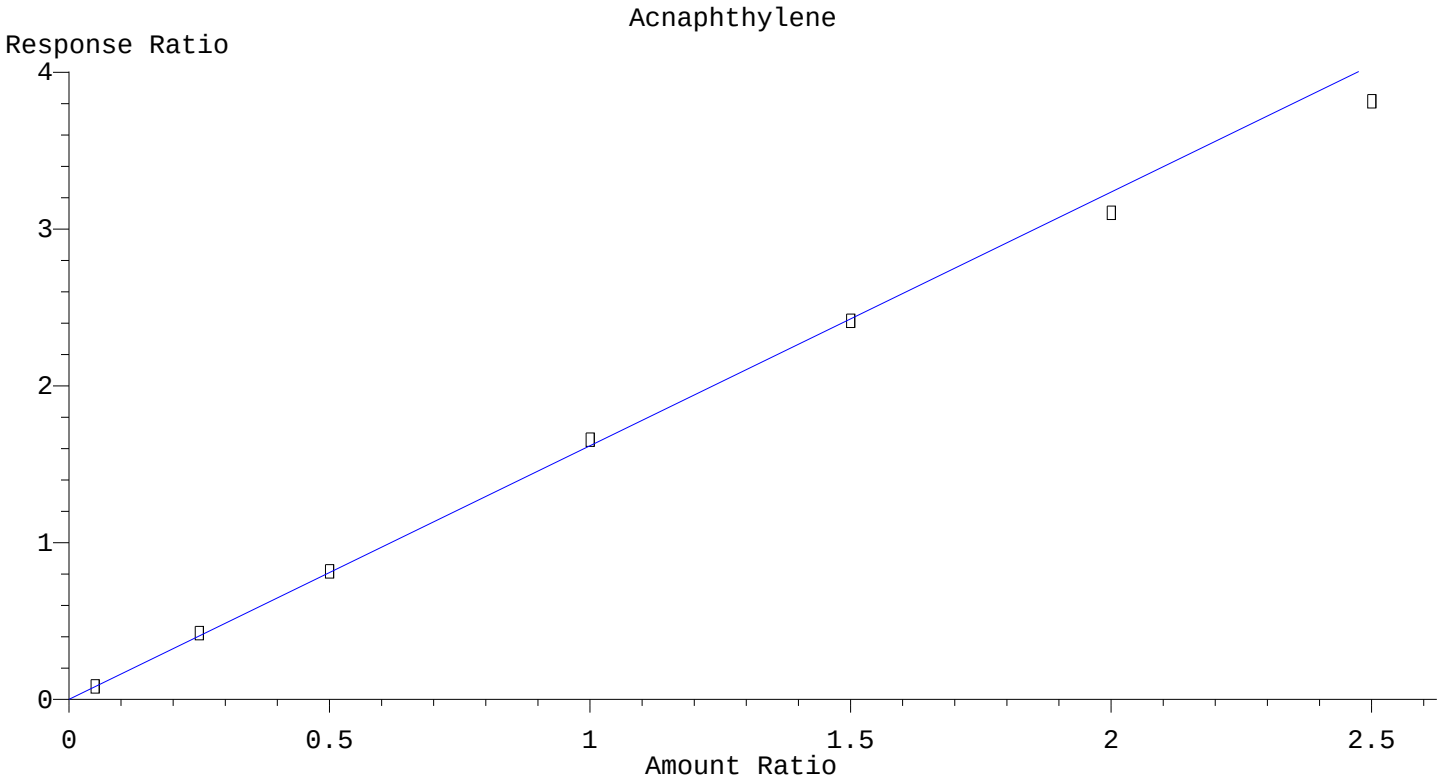

Resp Ratio = 2.386e-001 * Amt
RF Rel Std Dev = 3.905%  Curve Fit: Avg RF




Resp Ratio = 1.011e+000 * Amt
RF Rel Std Dev = 2.209%  Curve Fit: Avg RF

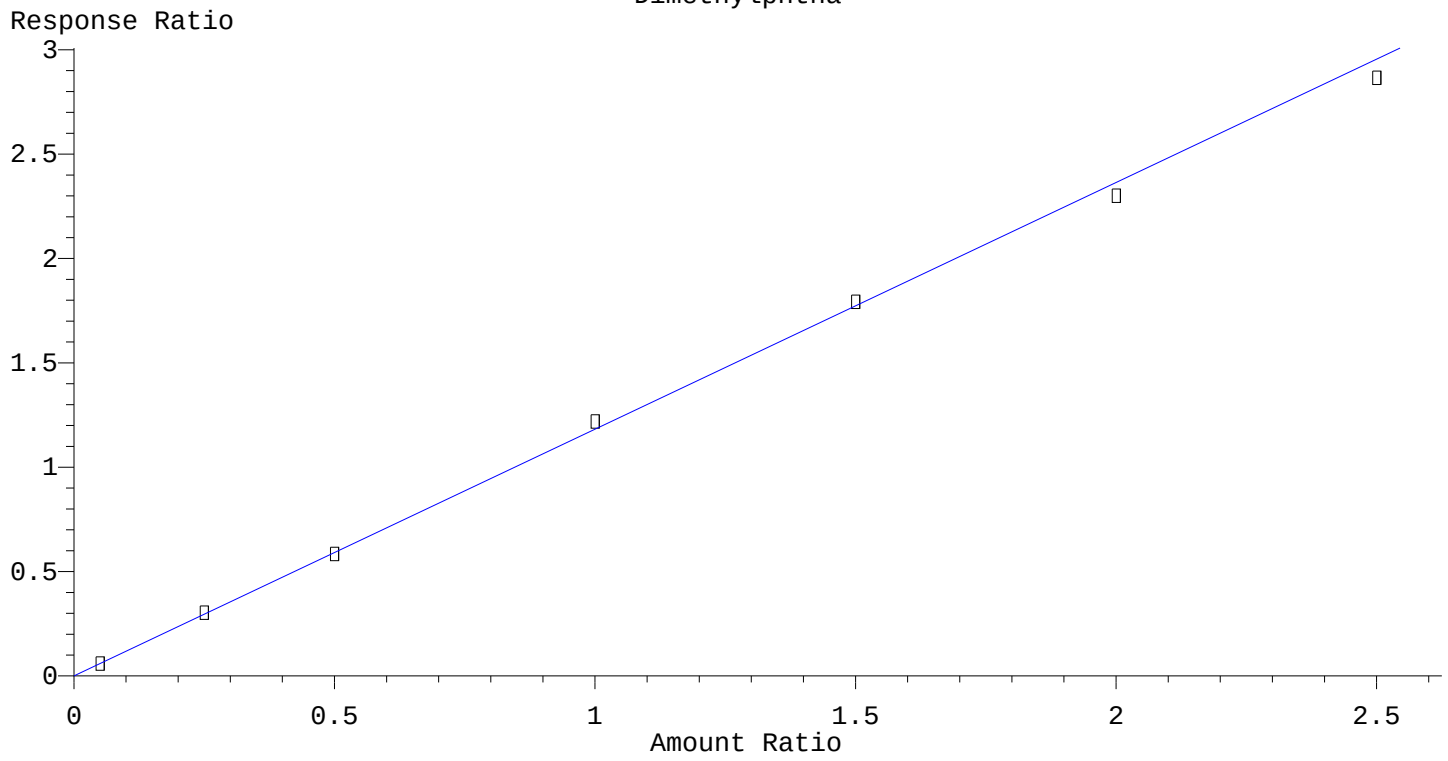



R = 5.445e-003 A*A + 3.122e-001 A - 4.261e-003
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)



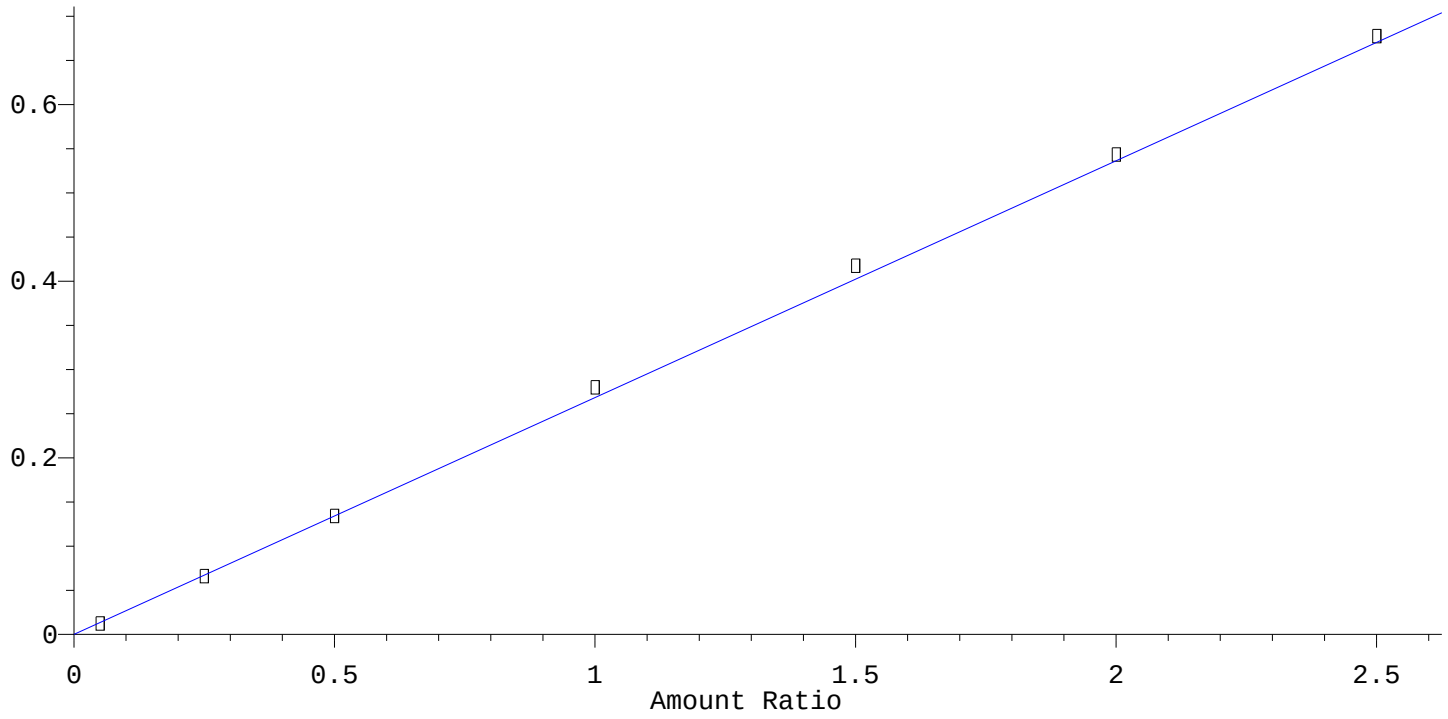

Resp Ratio = 1.619e+000 * Amt
RF Rel Std Dev = 3.730%  Curve Fit: Avg RF

Dimethylphtha

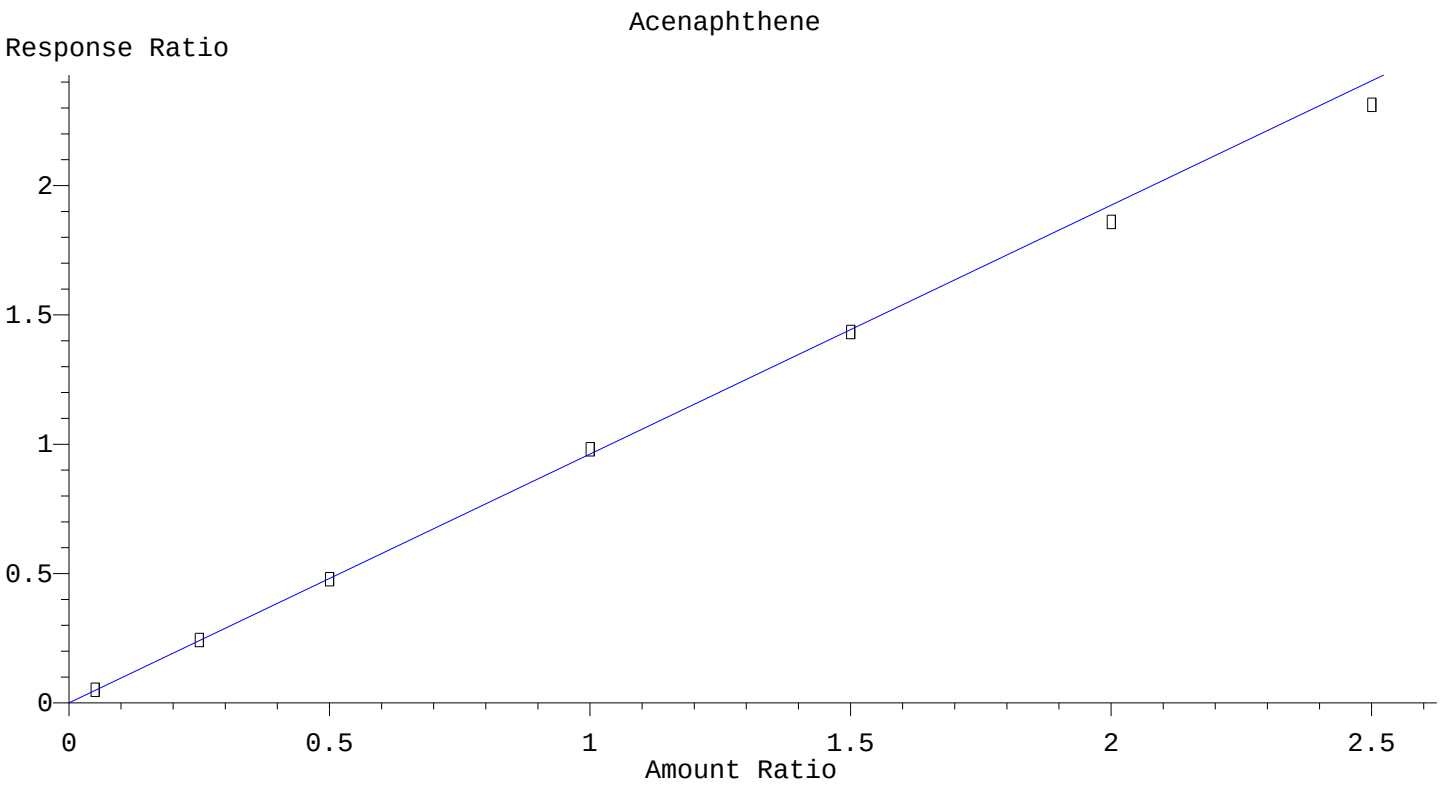



Resp Ratio = 1.182e+000 * Amt
RF Rel Std Dev = 2.422%  Curve Fit: Avg RF

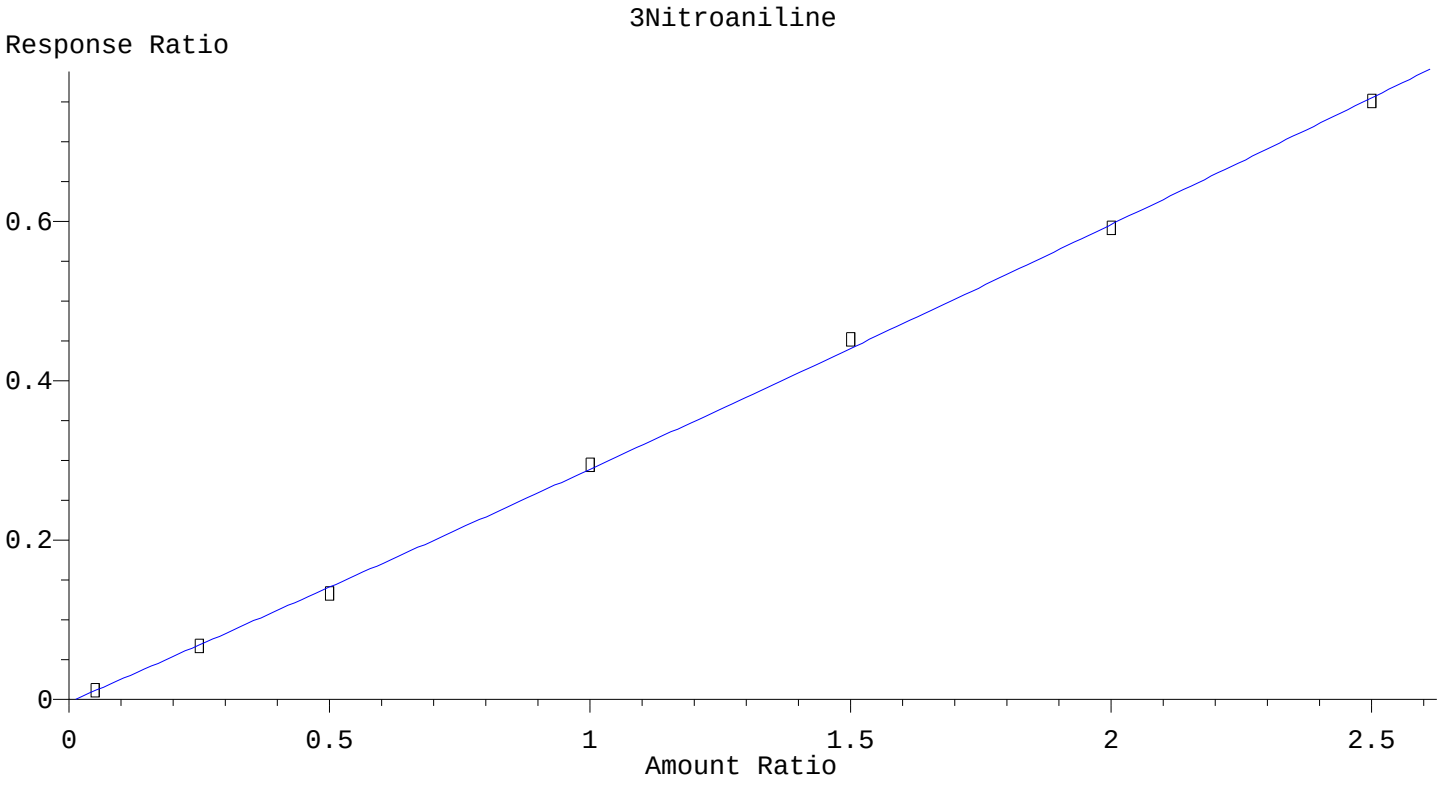
26Dinitrotolu



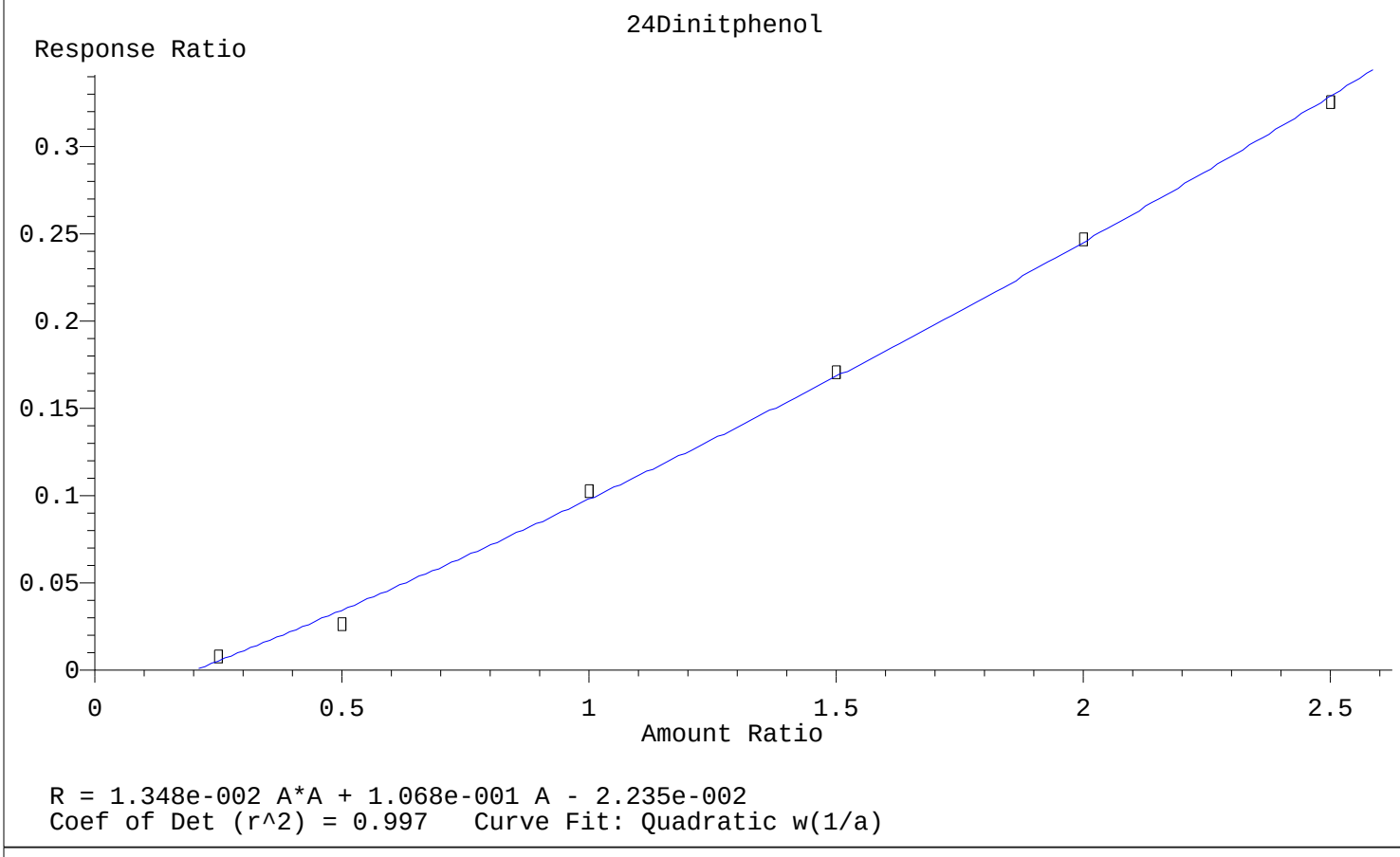

Resp Ratio = 2.683e-001 * Amt
RF Rel Std Dev = 4.213%  Curve Fit: Avg RF



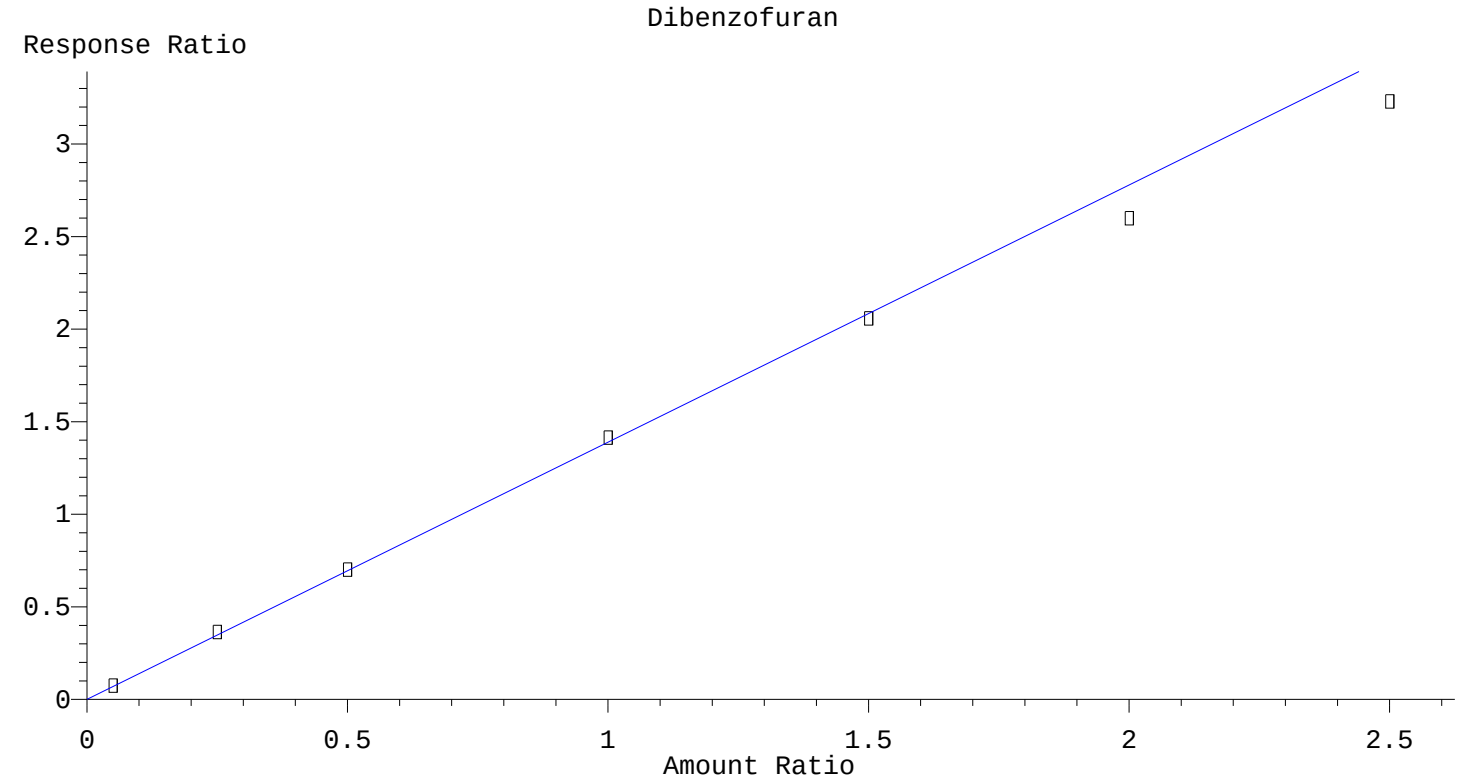

Resp Ratio = 9.620e-001 * Amt
RF Rel Std Dev = 3.238%  Curve Fit: Avg RF



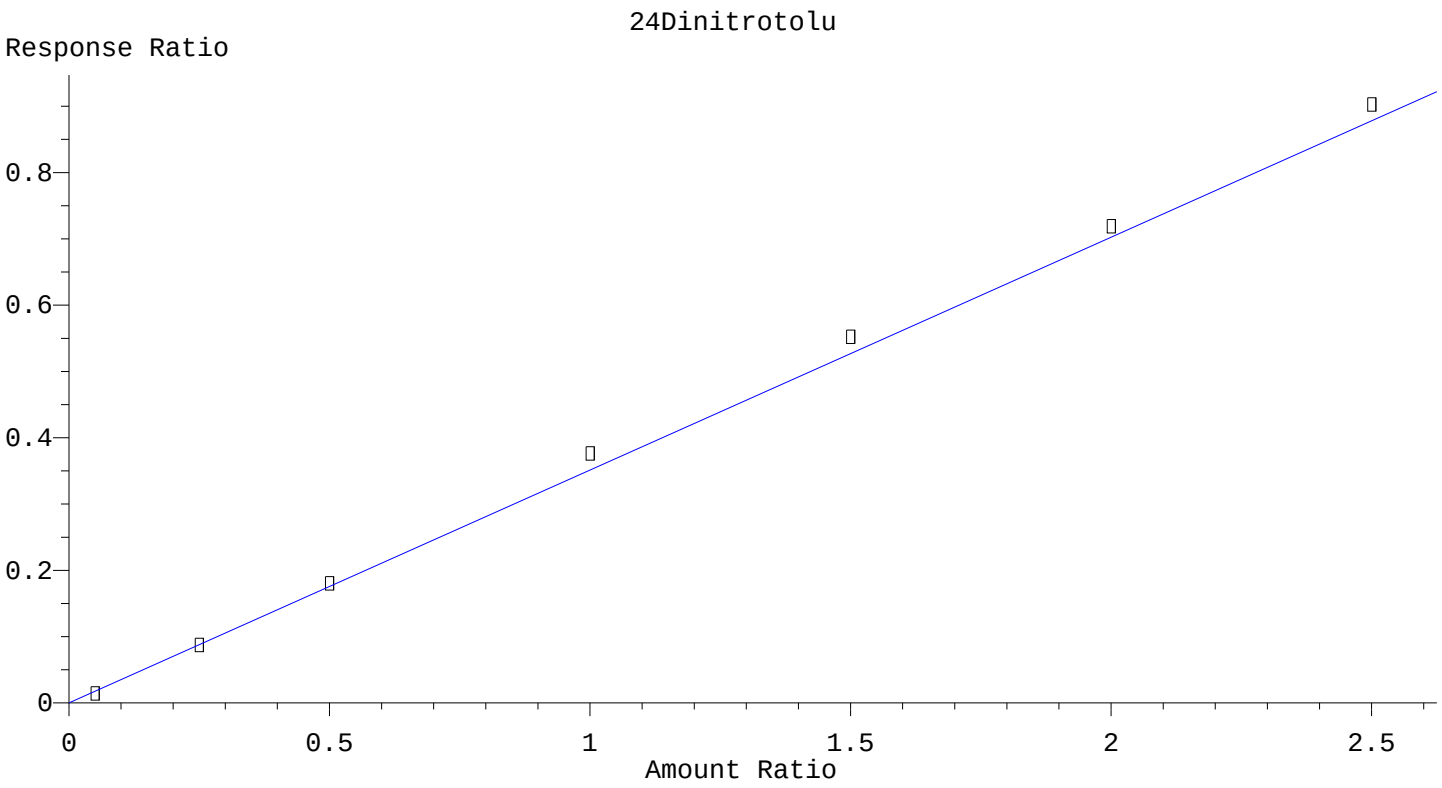

R = 7.400e-003 A*A + 2.849e-001 A - 3.375e-003
Coef of Det (r^2) = 0.999  Curve Fit: Quadratic w(1/a)



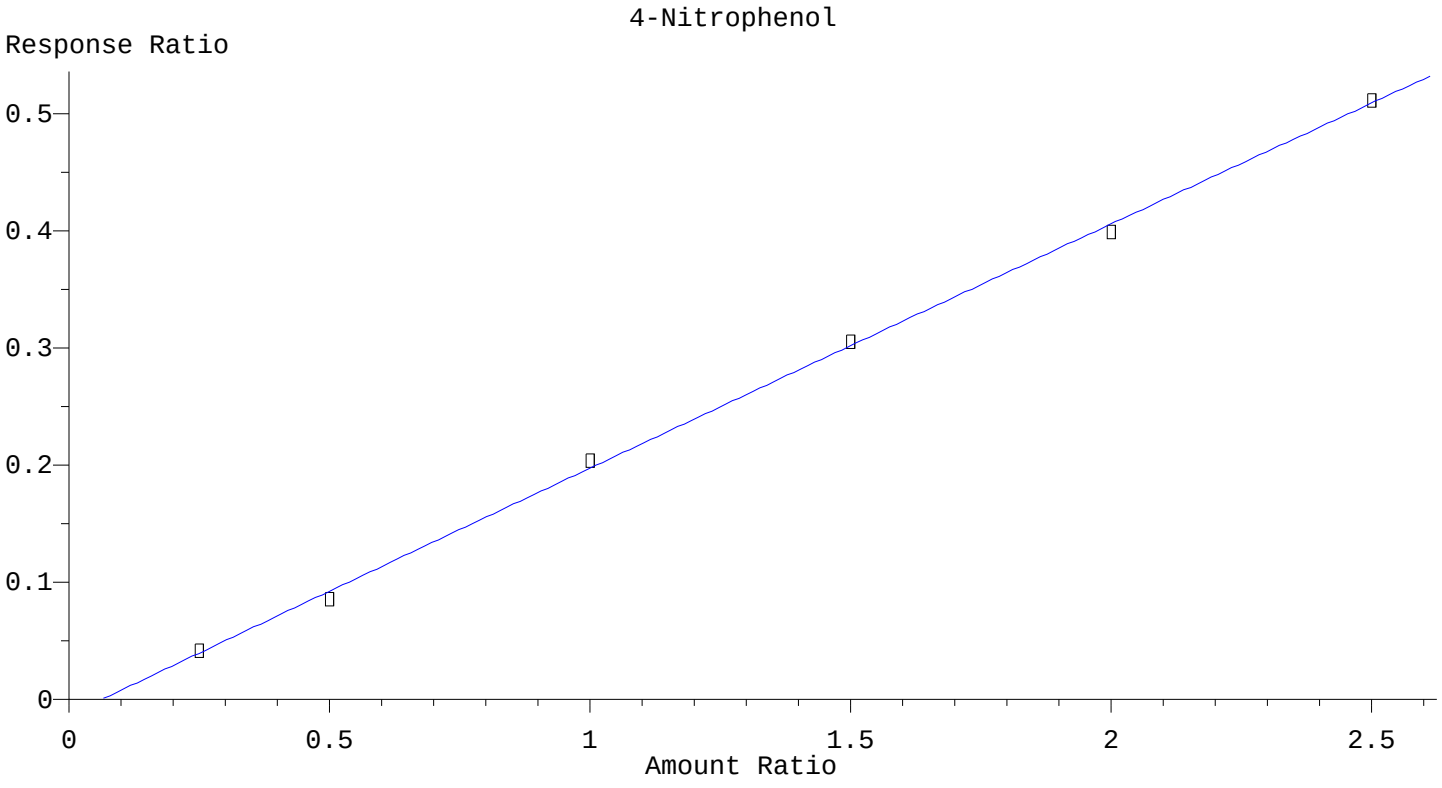

R = 1.348e-002 A*A + 1.068e-001 A - 2.235e-002
Coef of Det (r^2) = 0.997  Curve Fit: Quadratic w(1/a)



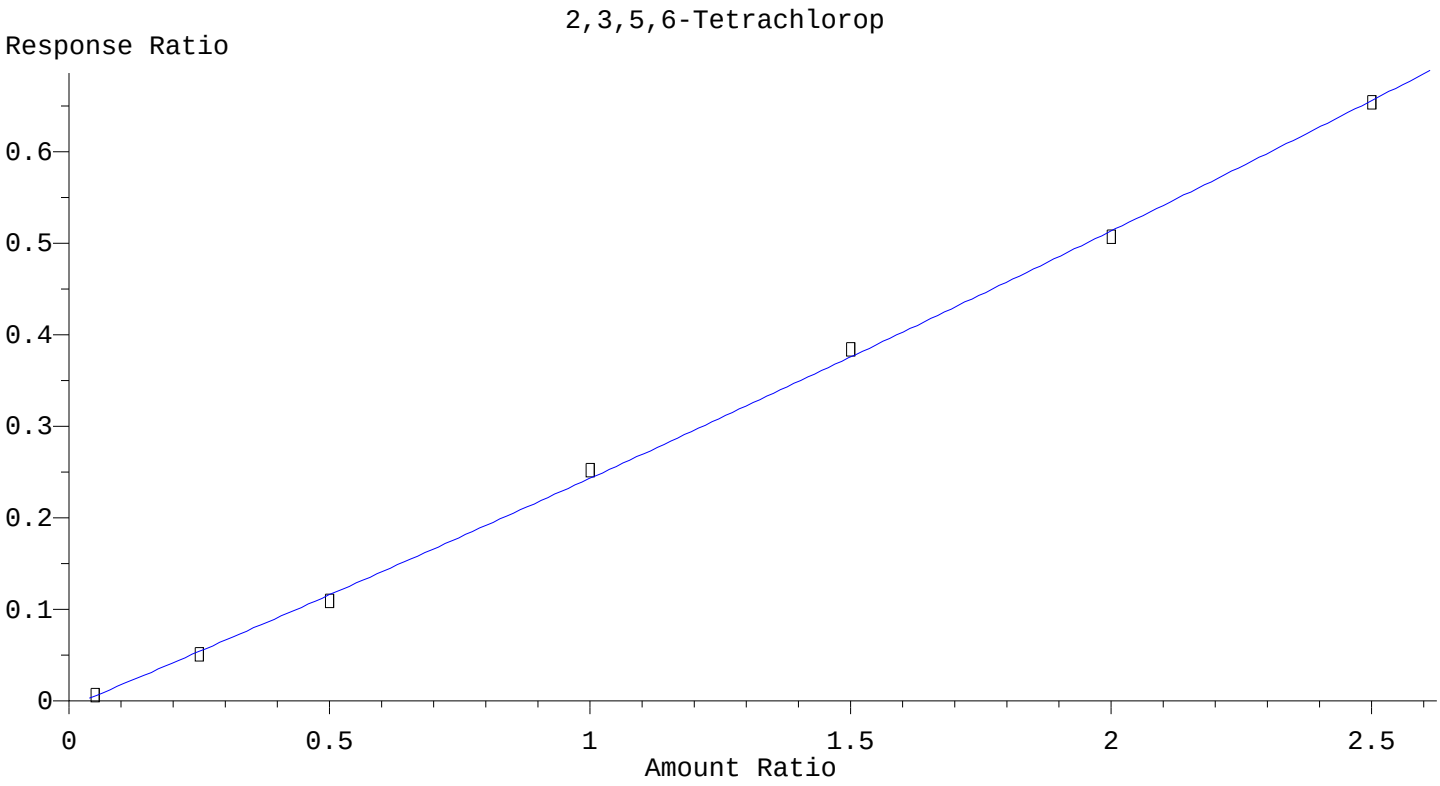

Resp Ratio = 1.389e+000 * Amt
RF Rel Std Dev = 5.364%  Curve Fit: Avg RF



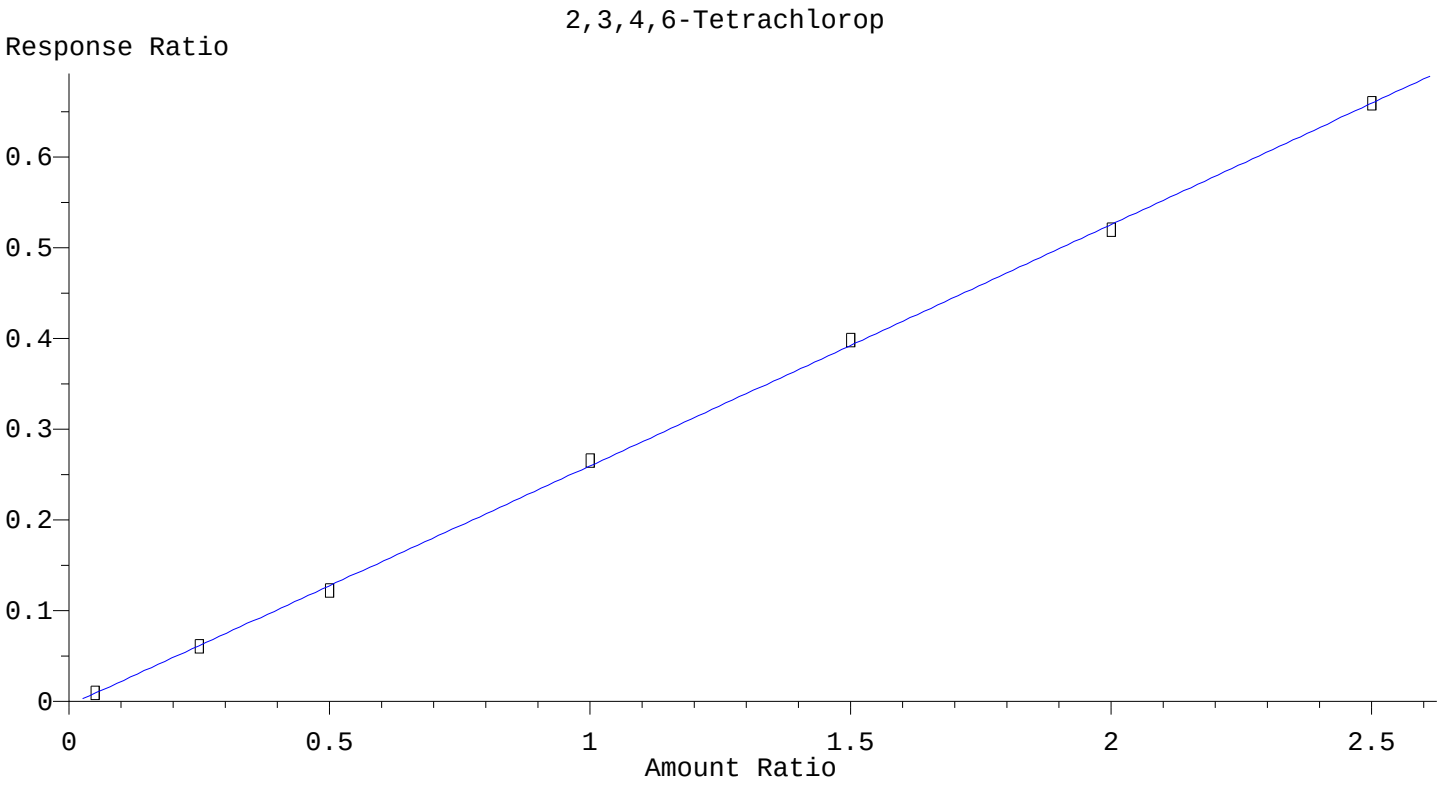

Resp Ratio = 3.512e-001 * Amt
RF Rel Std Dev = 8.871%  Curve Fit: Avg RF



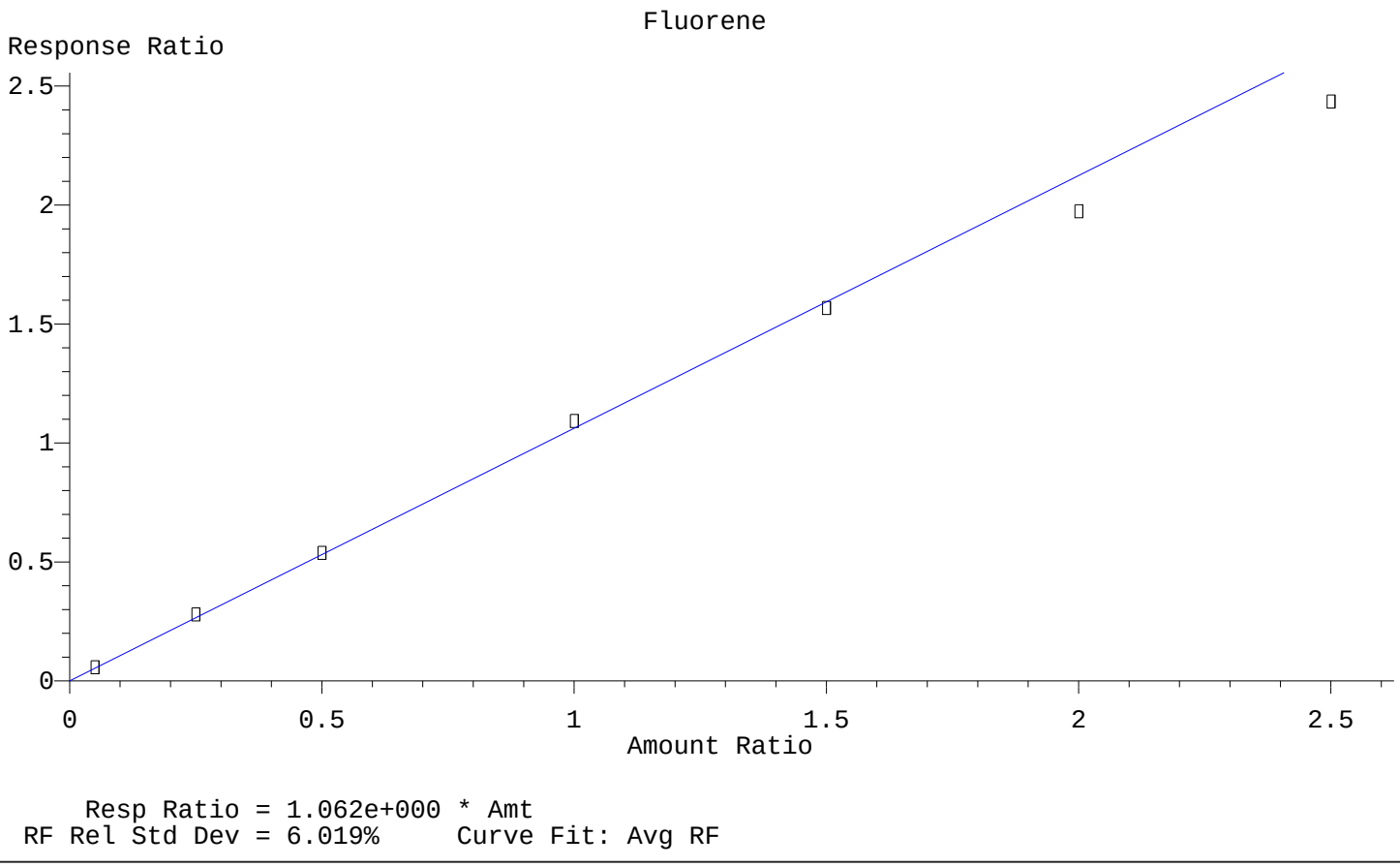

R = -1.264e-003 A*A + 2.121e-001 A - 1.337e-002
Coef of Det (r^2) = 0.999  Curve Fit: Quadratic w(1/a)



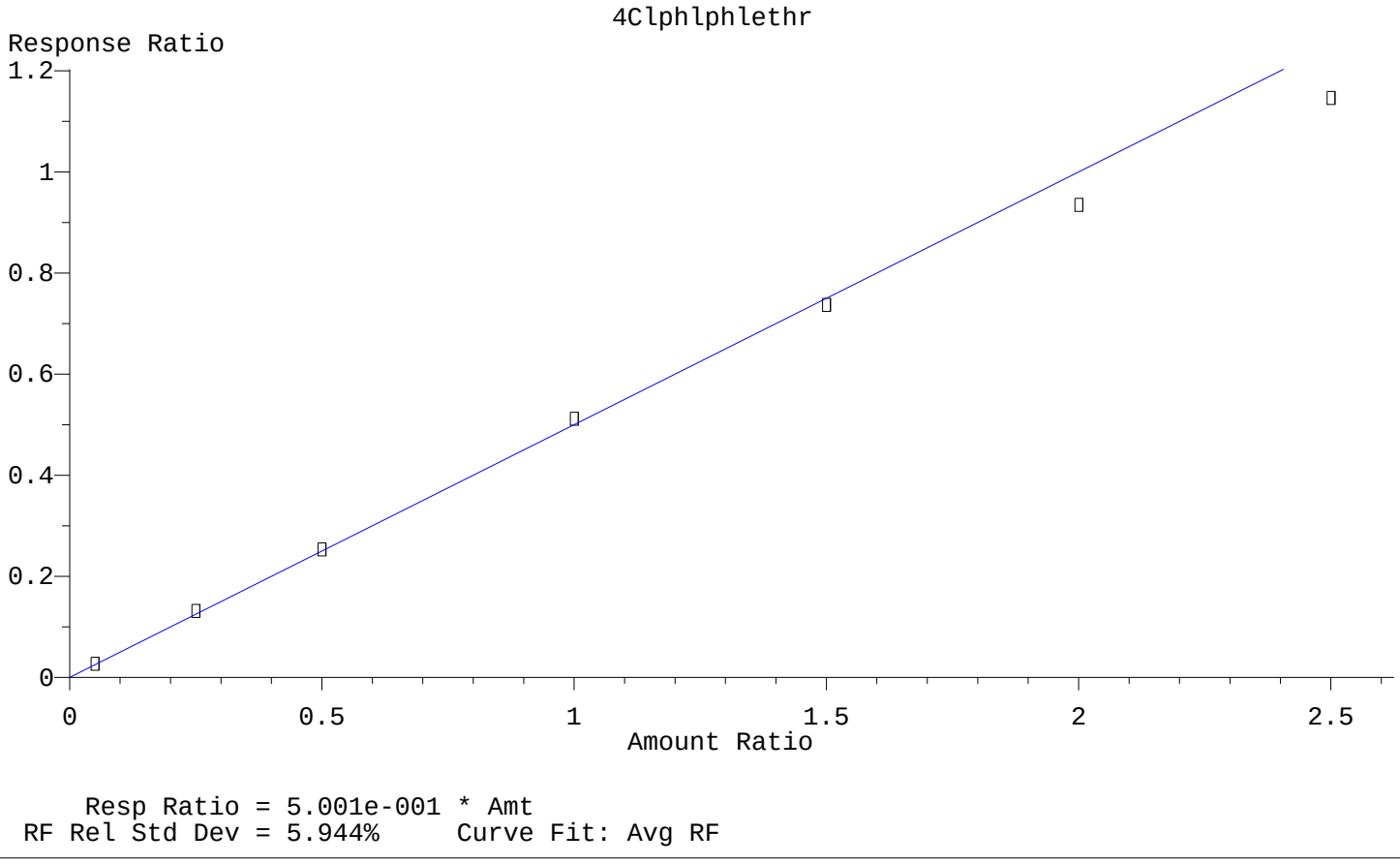

R = 1.011e-002 A*A + 2.397e-001 A - 6.538e-003
Coef of Det (r^2) = 0.999  Curve Fit: Quadratic w(1/a)



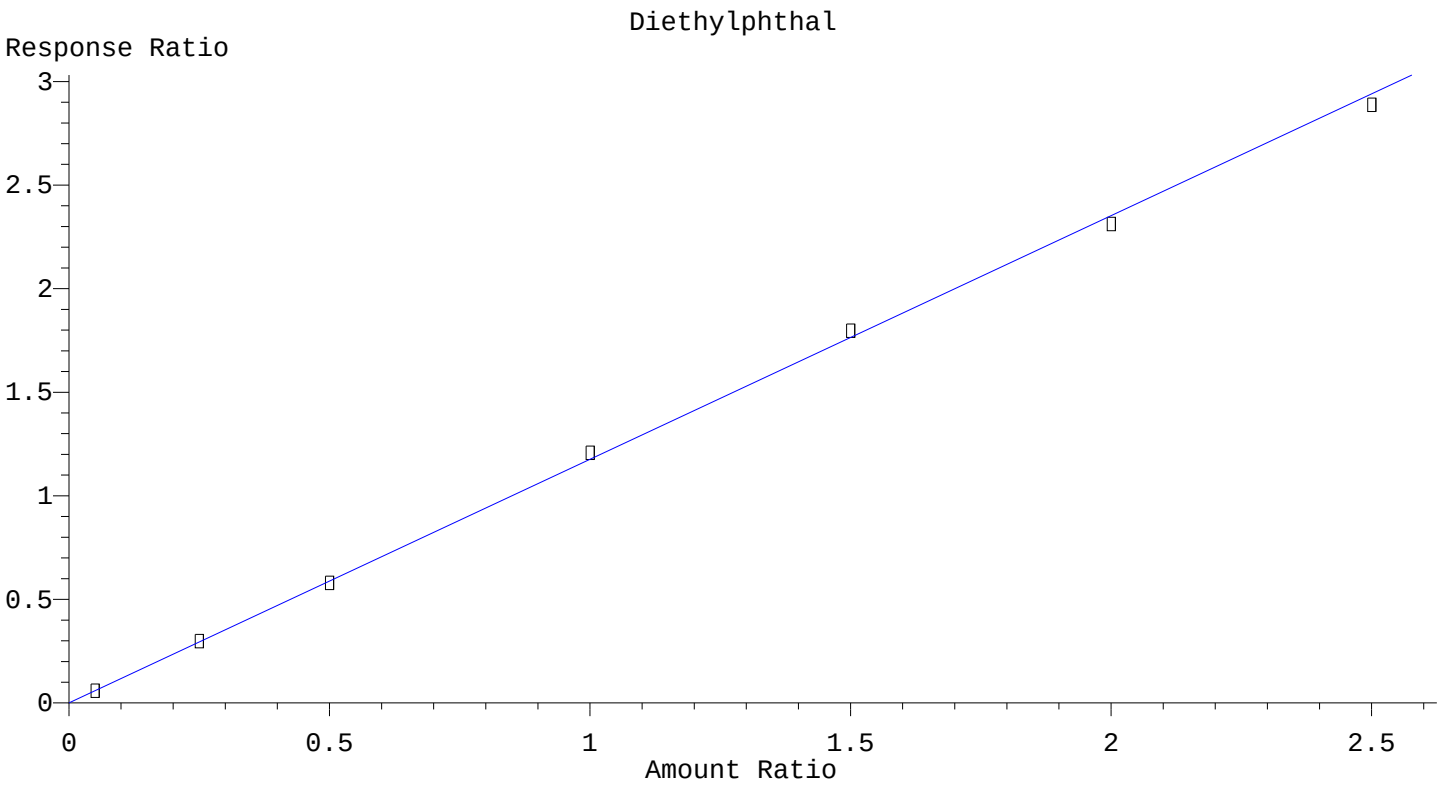

R = 1.012e-003 A*A + 2.629e-001 A - 4.241e-003
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)



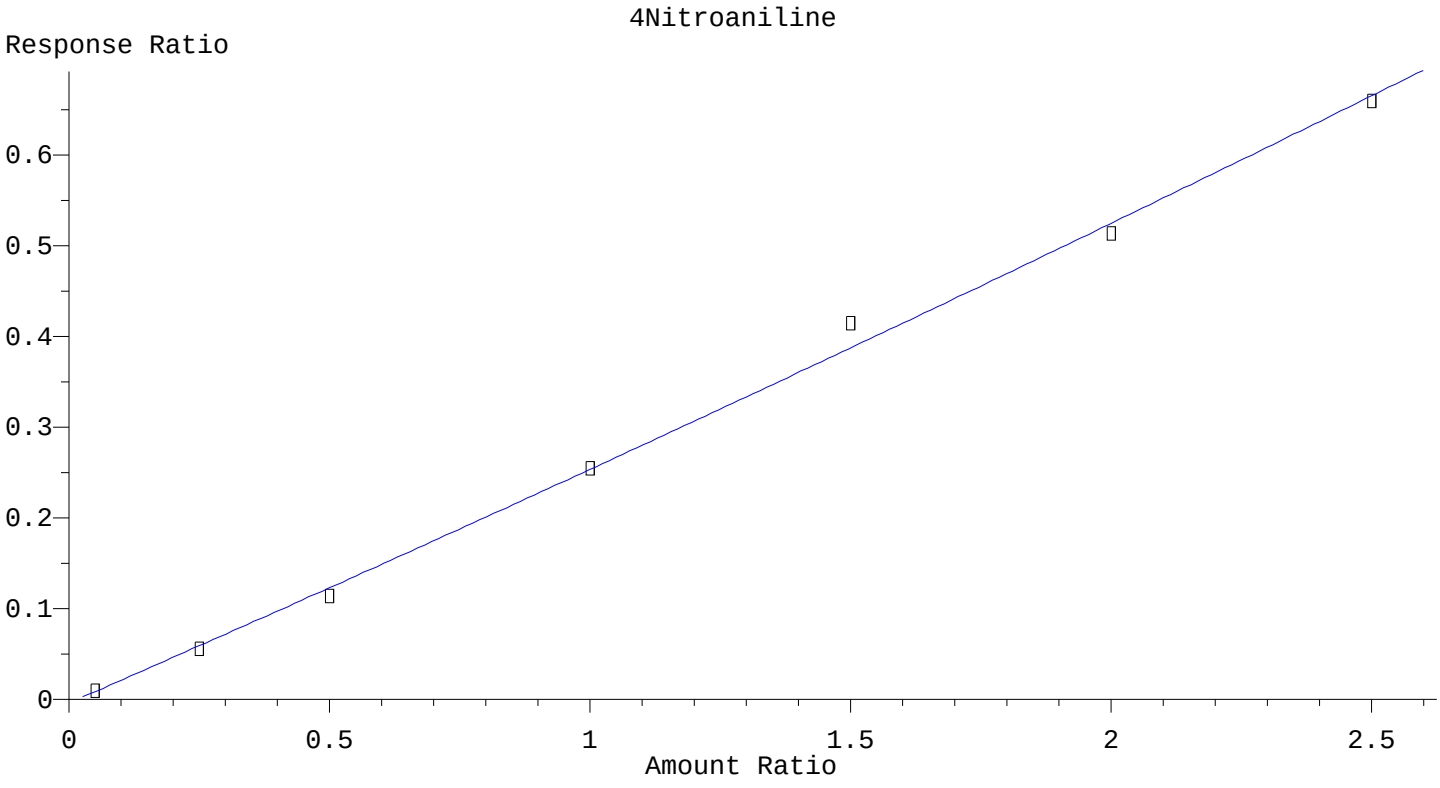

Resp Ratio = 1.062e+000 * Amt
RF Rel Std Dev = 6.019%  Curve Fit: Avg RF



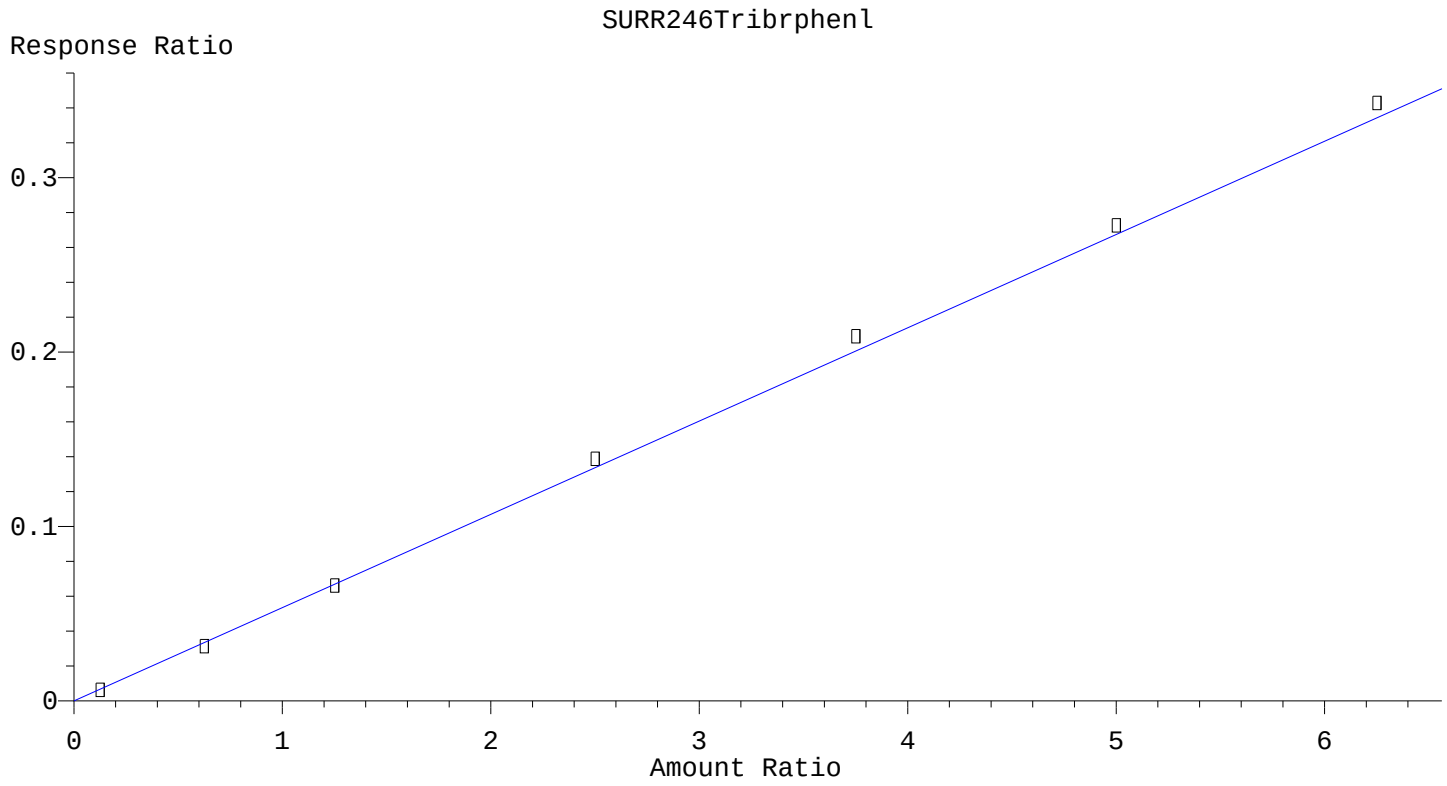

Resp Ratio = 5.001e-001 * Amt
RF Rel Std Dev = 5.944%  Curve Fit: Avg RF



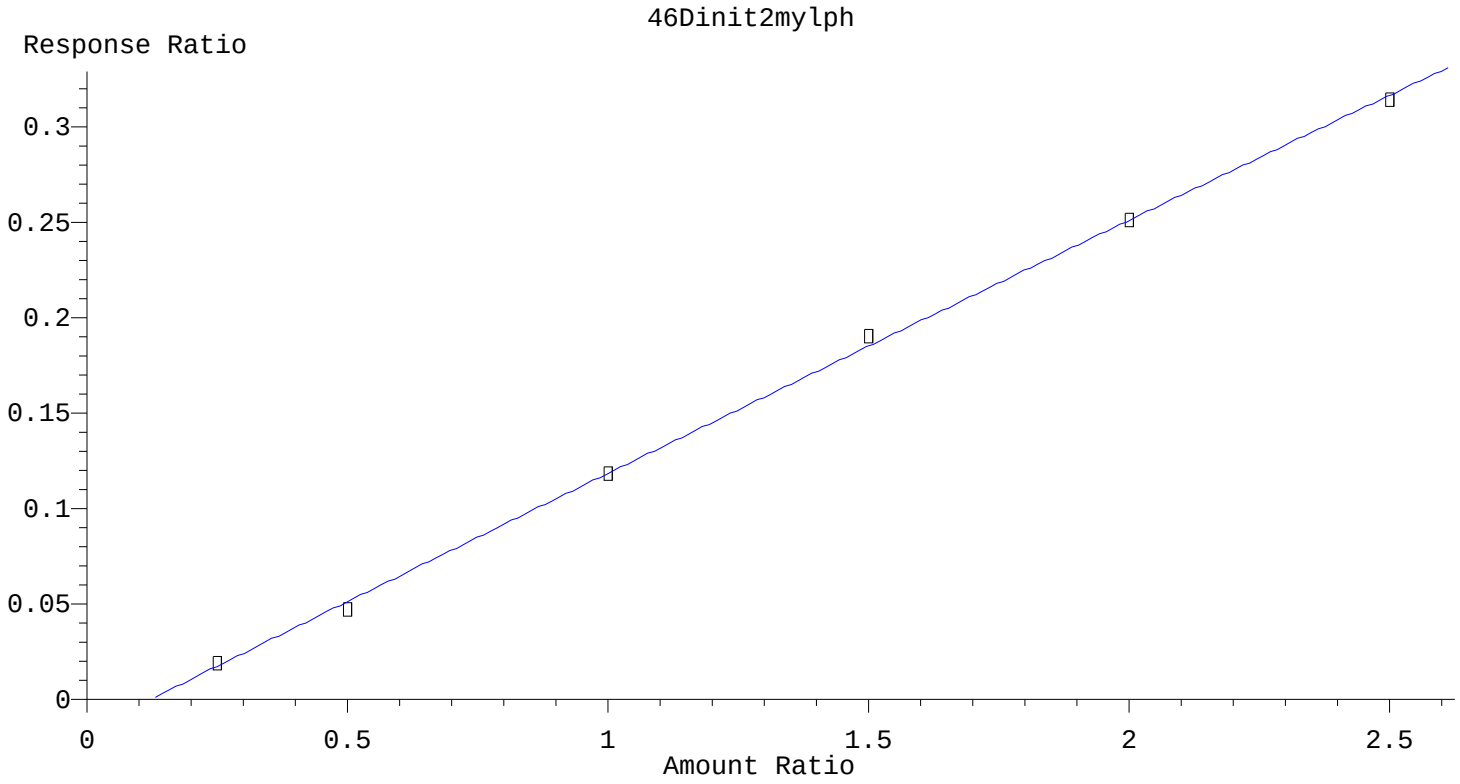

Resp Ratio = 1.177e+000 * Amt
RF Rel Std Dev = 1.878%  Curve Fit: Avg RF



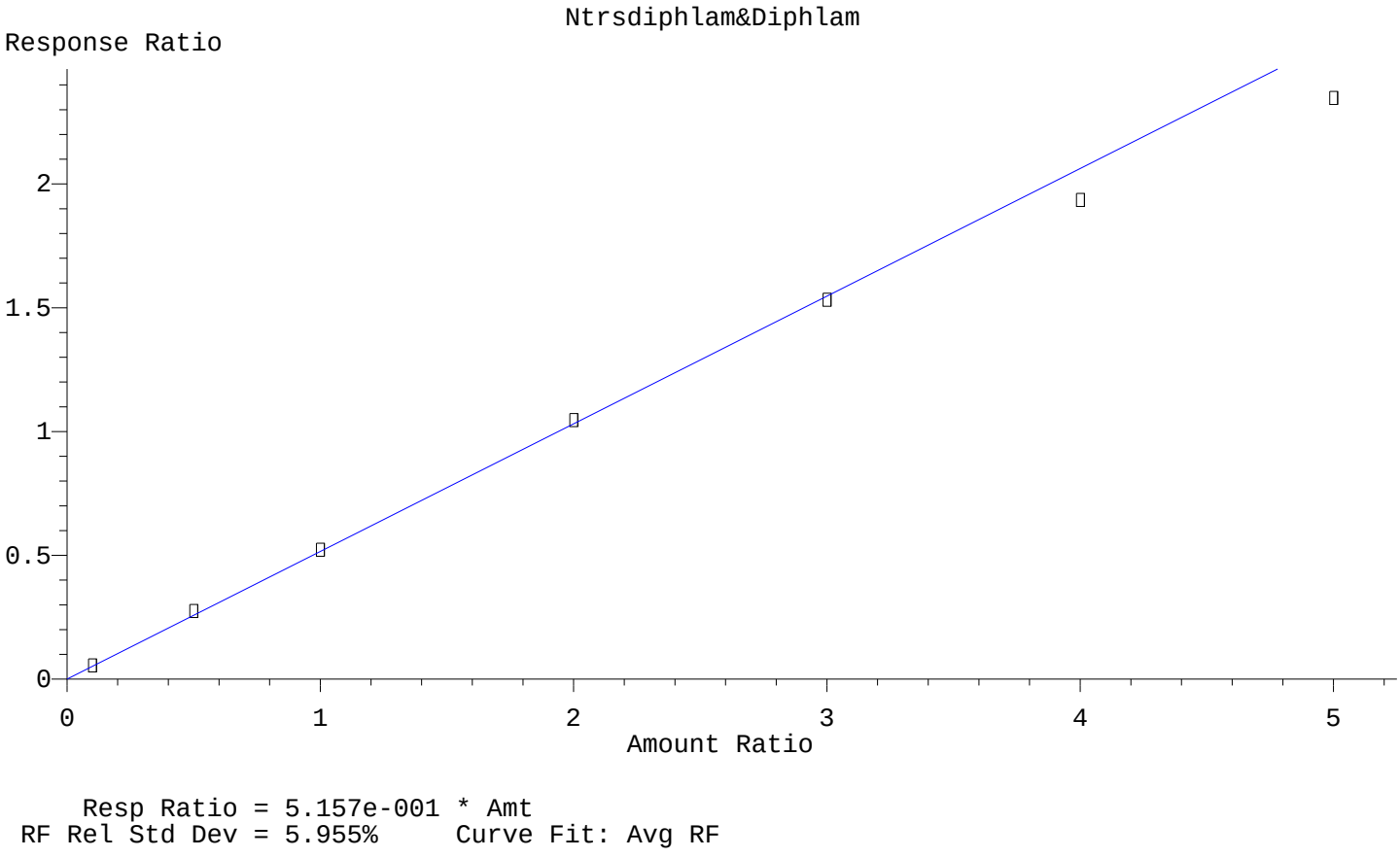

R = 6.785e-003 A*A + 2.508e-001 A - 4.030e-003
Coef of Det (r^2) = 0.998  Curve Fit: Quadratic w(1/a)



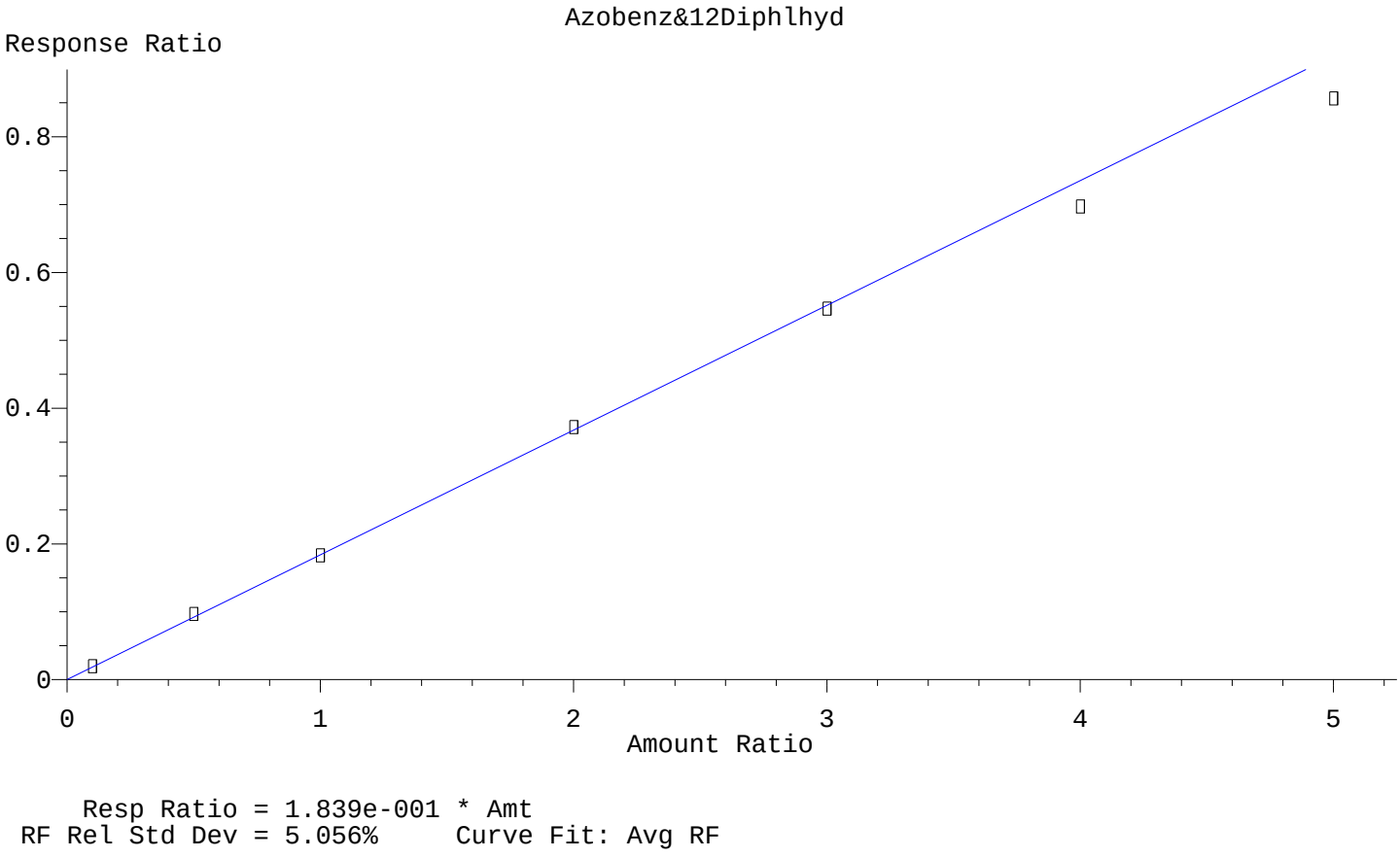

Resp Ratio = 5.354e-002 * Amt
RF Rel Std Dev = 4.151%  Curve Fit: Avg RF



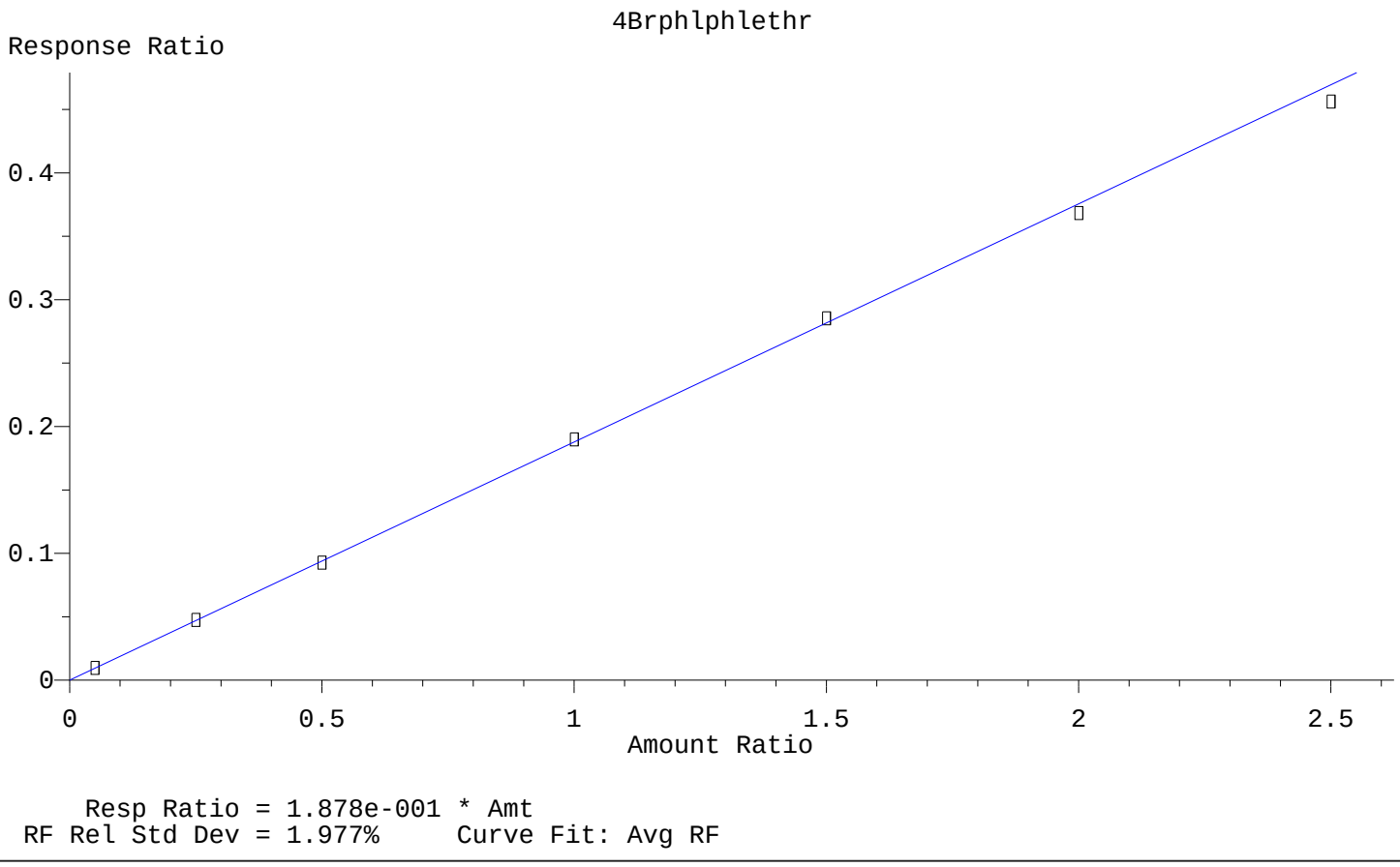

R = -1.185e-003 A*A + 1.362e-001 A - 1.655e-002
Coef of Det (r^2) = 0.999  Curve Fit: Quadratic w(1/a)



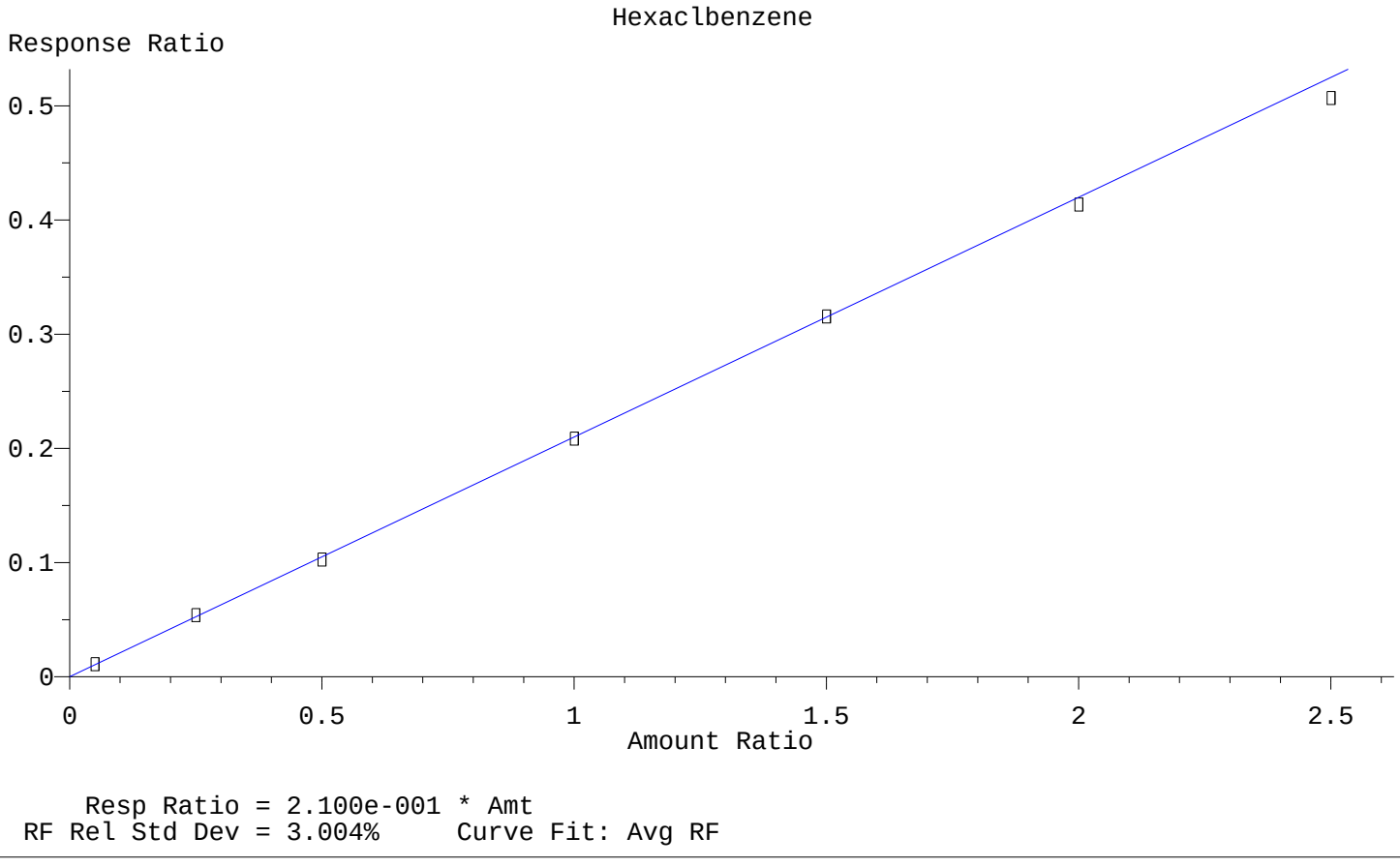

Resp Ratio = 5.157e-001 * Amt
RF Rel Std Dev = 5.955%  Curve Fit: Avg RF



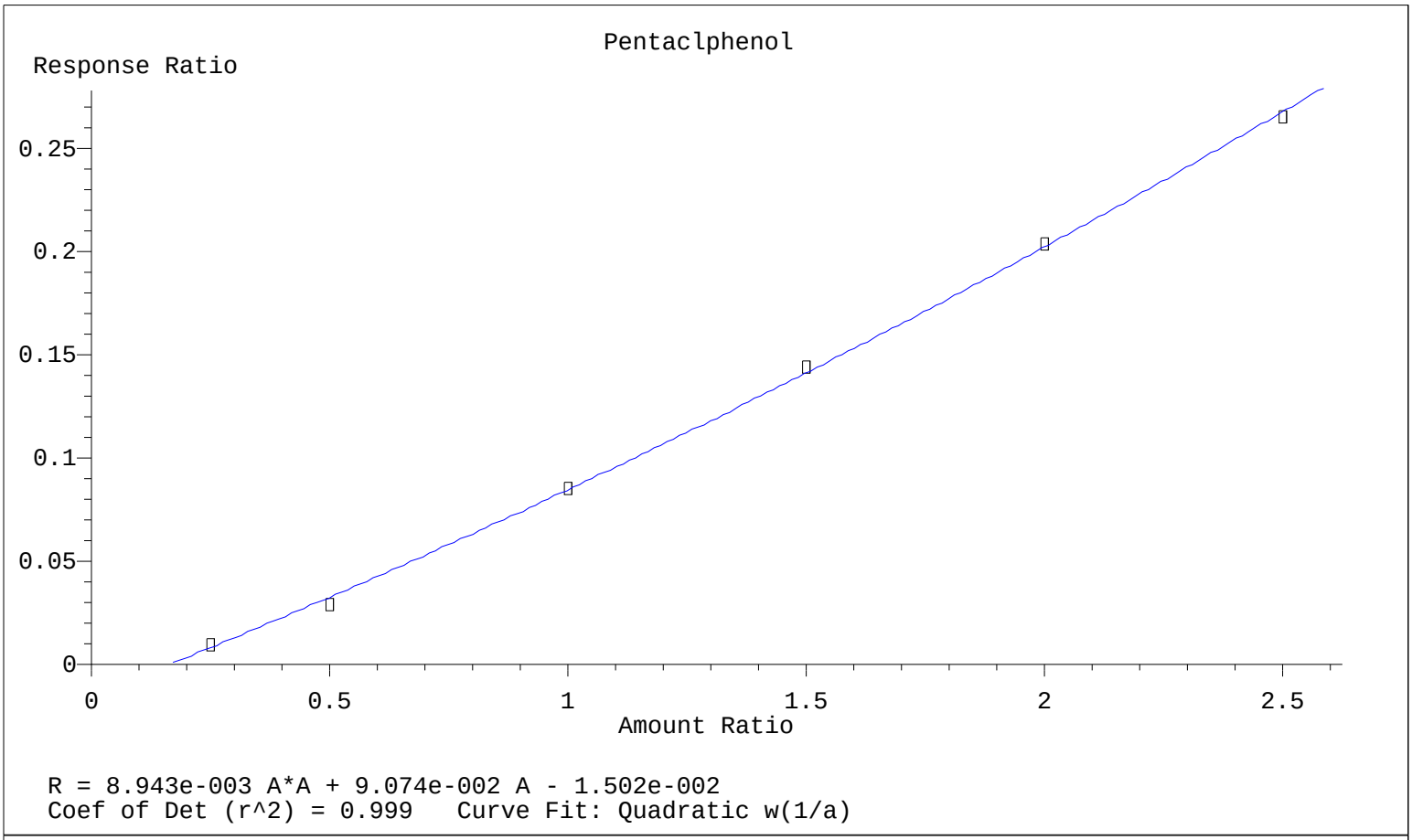

Resp Ratio = 1.839e-001 * Amt
RF Rel Std Dev = 5.056%  Curve Fit: Avg RF



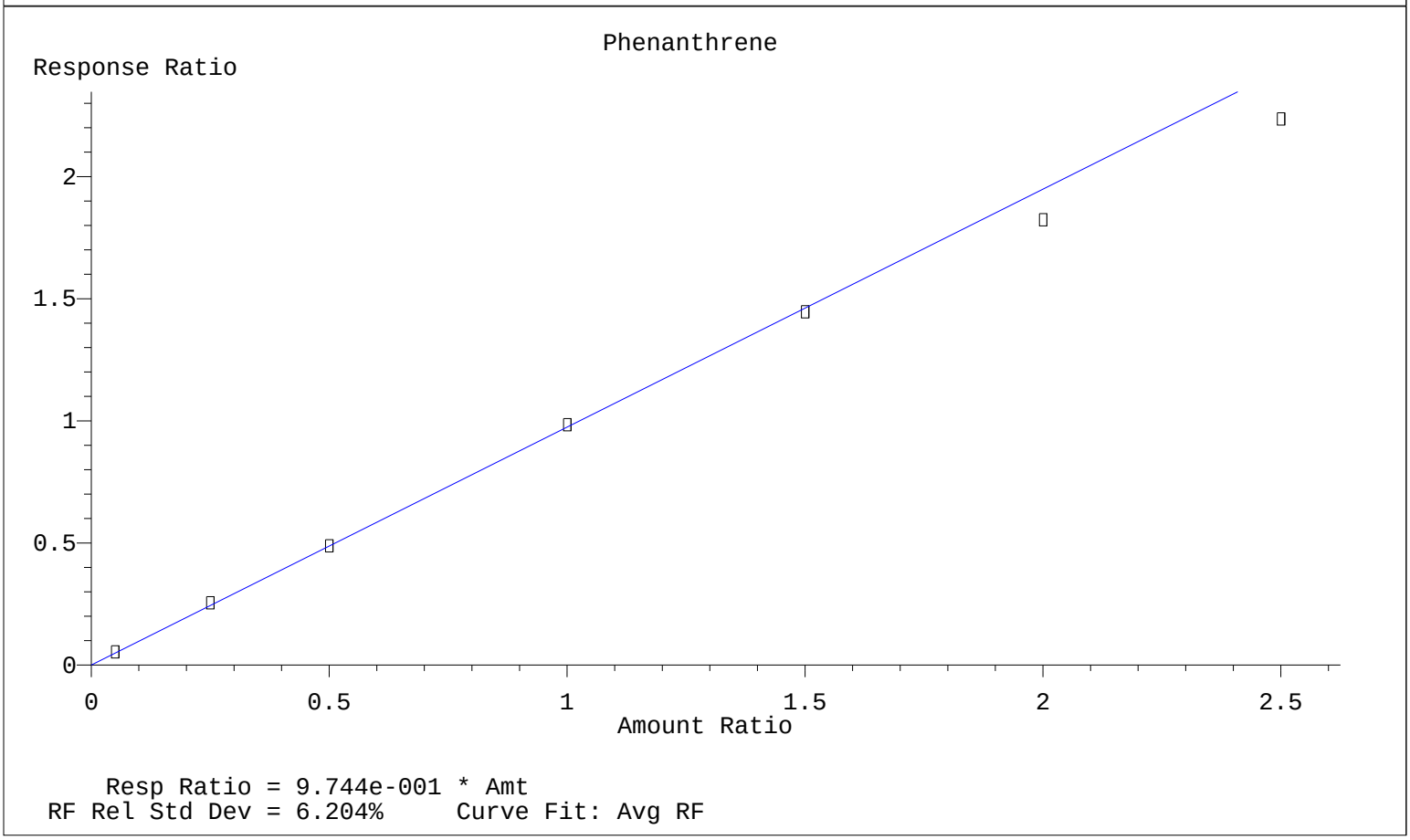

Resp Ratio = 1.878e-001 * Amt
RF Rel Std Dev = 1.977%  Curve Fit: Avg RF



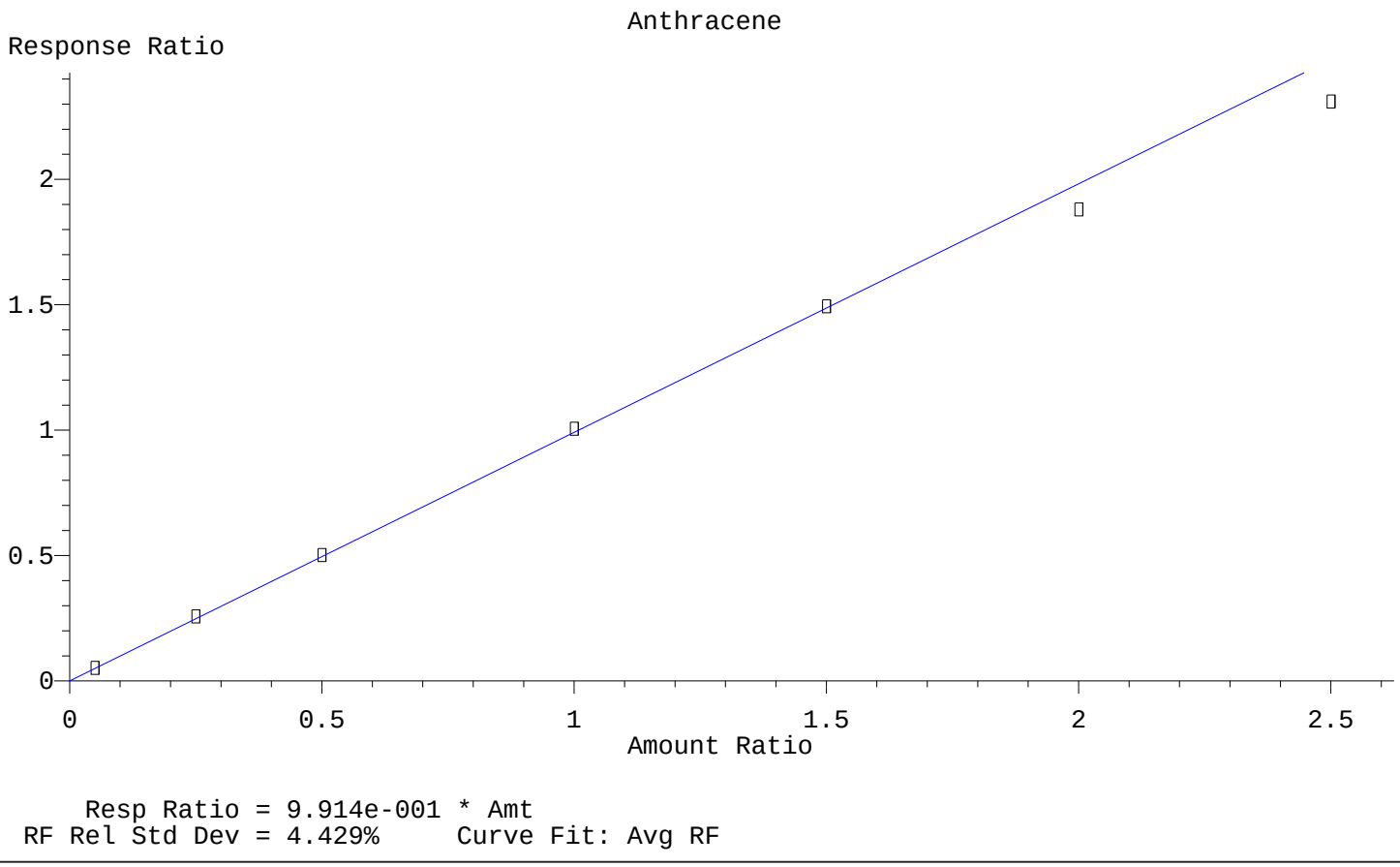

Resp Ratio = 2.100e-001 * Amt
RF Rel Std Dev = 3.004%  Curve Fit: Avg RF



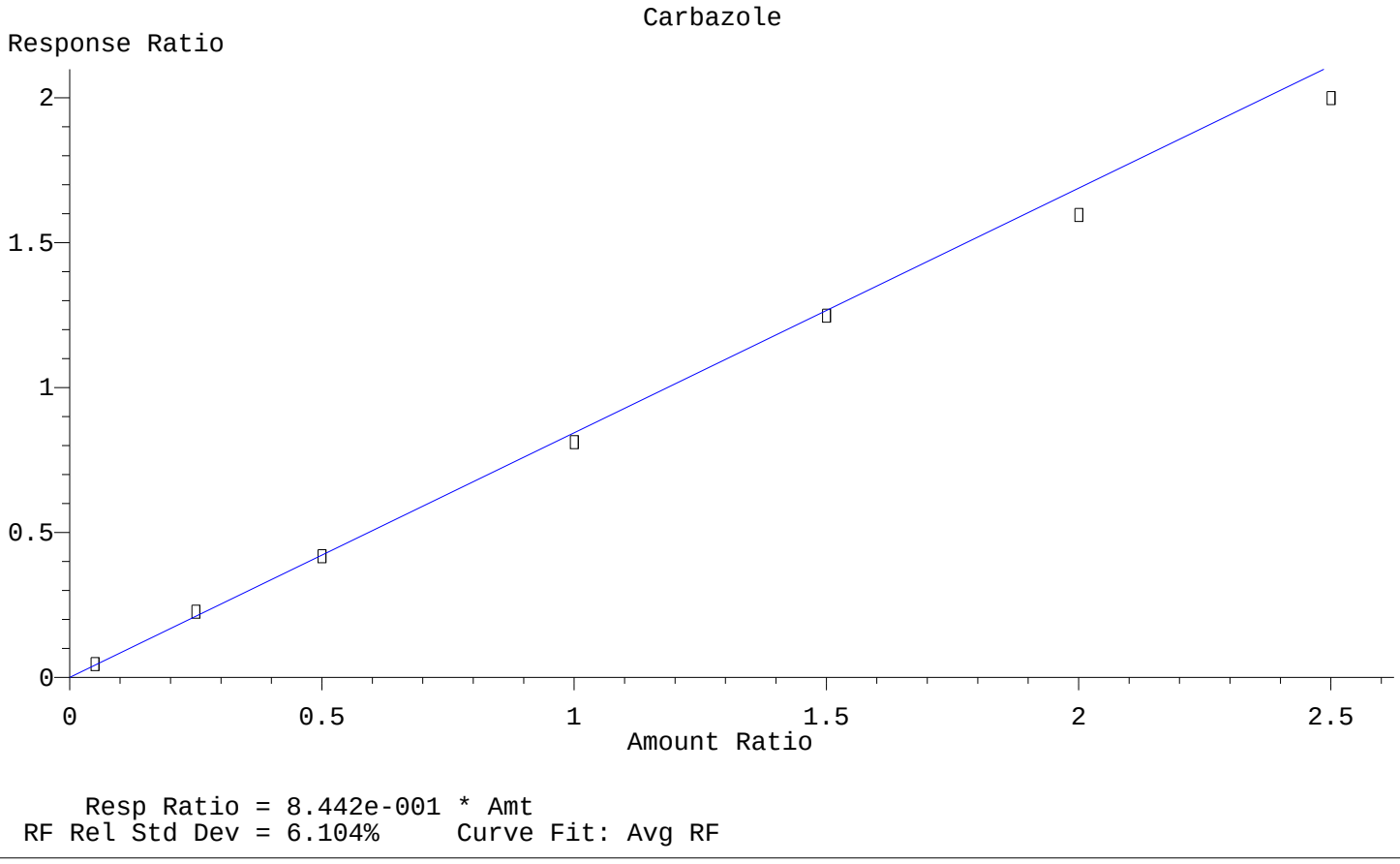

R = 8.943e-003 A*A + 9.074e-002 A - 1.502e-002
Coef of Det (r^2) = 0.999  Curve Fit: Quadratic w(1/a)



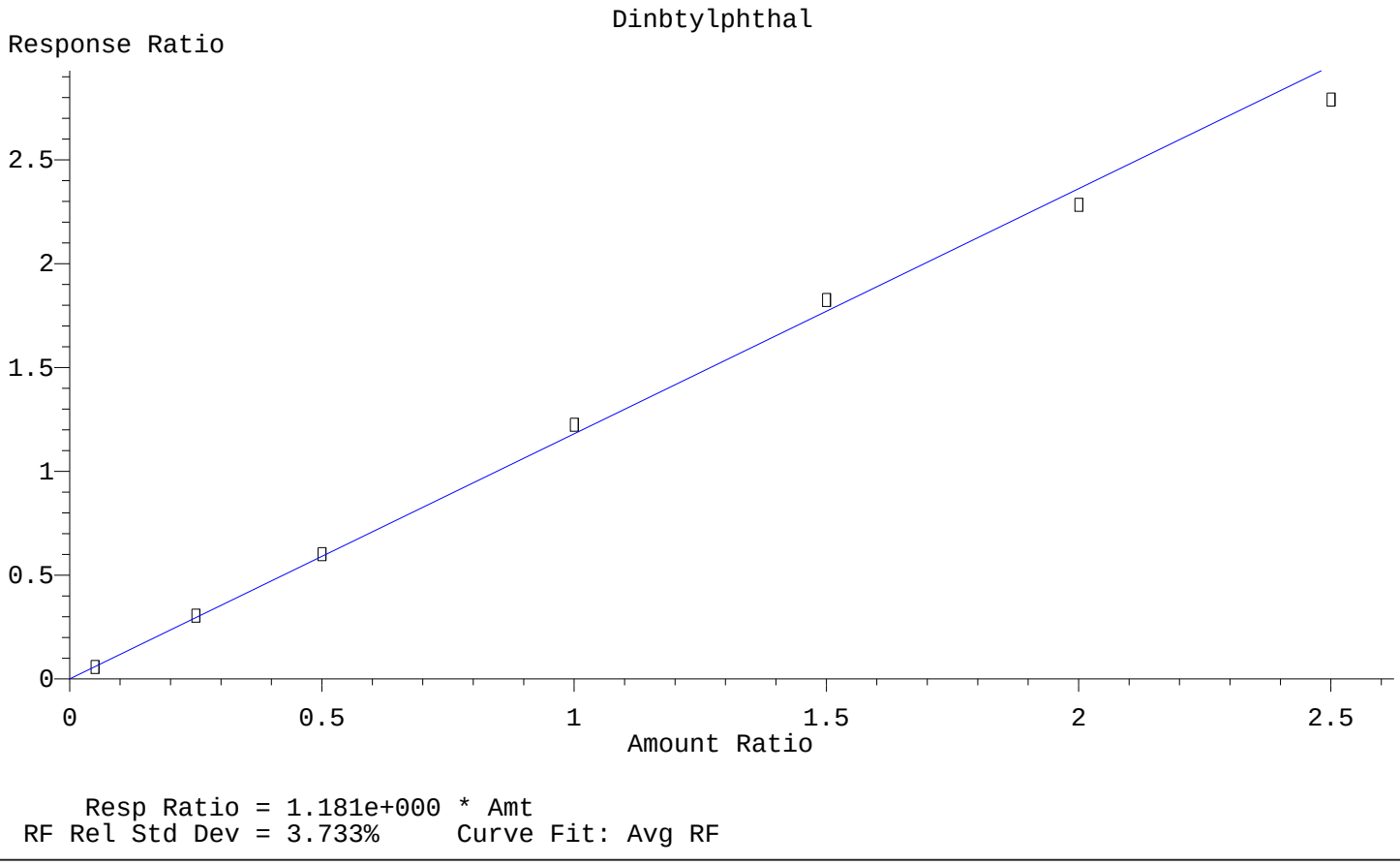

Resp Ratio = 9.744e-001 * Amt
RF Rel Std Dev = 6.204%  Curve Fit: Avg RF



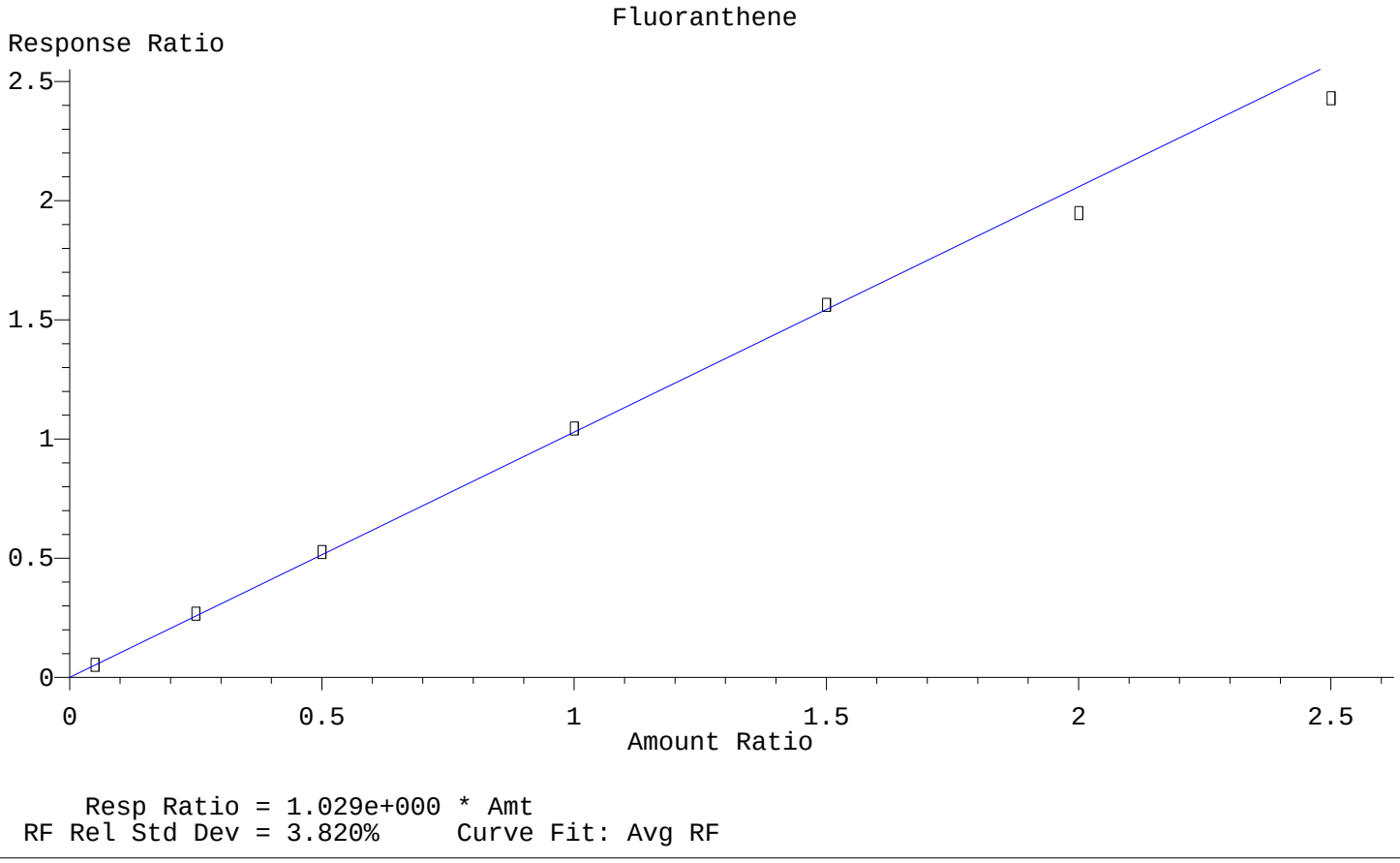

Resp Ratio = 9.914e-001 * Amt
RF Rel Std Dev = 4.429%  Curve Fit: Avg RF



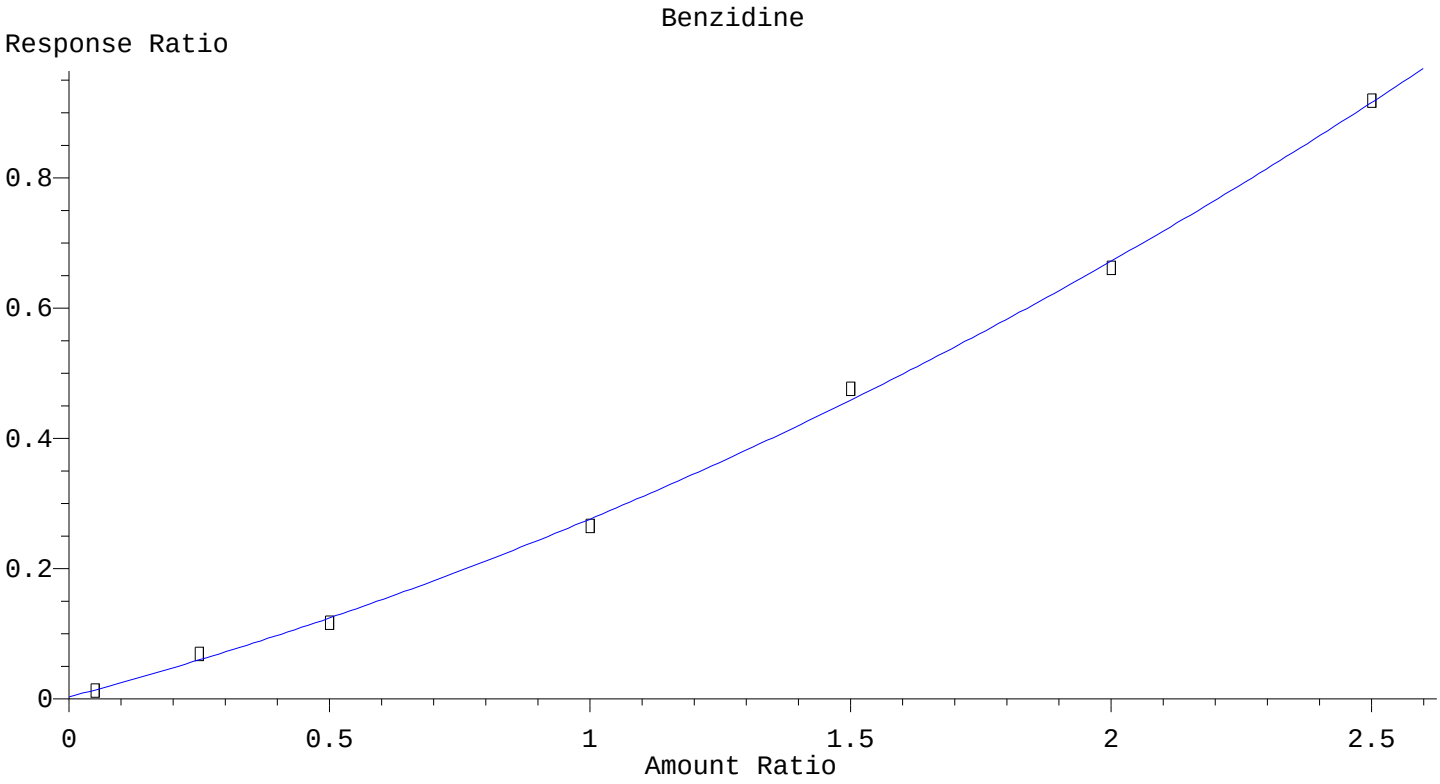

Resp Ratio = 8.442e-001 * Amt
RF Rel Std Dev = 6.104%  Curve Fit: Avg RF



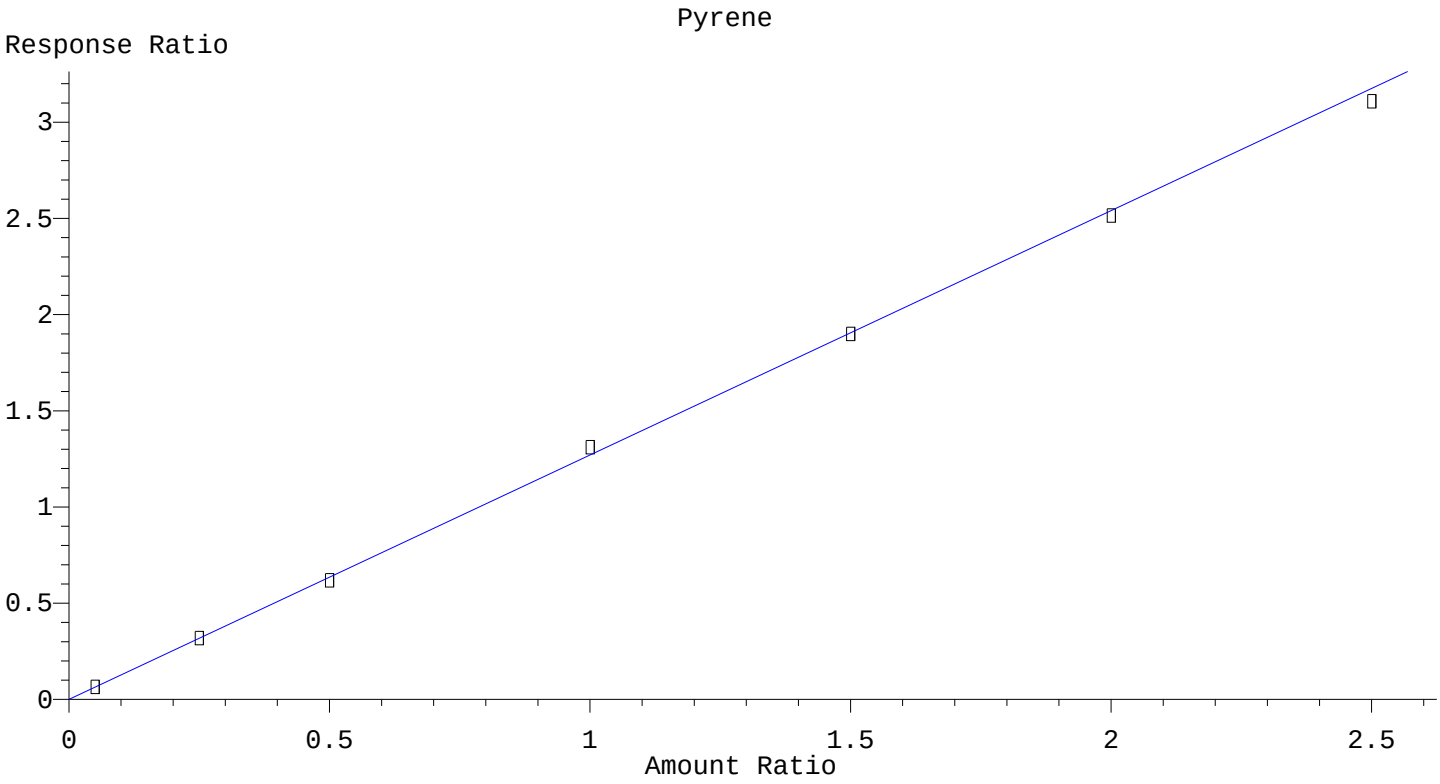

Resp Ratio = 1.181e+000 * Amt
RF Rel Std Dev = 3.733%  Curve Fit: Avg RF



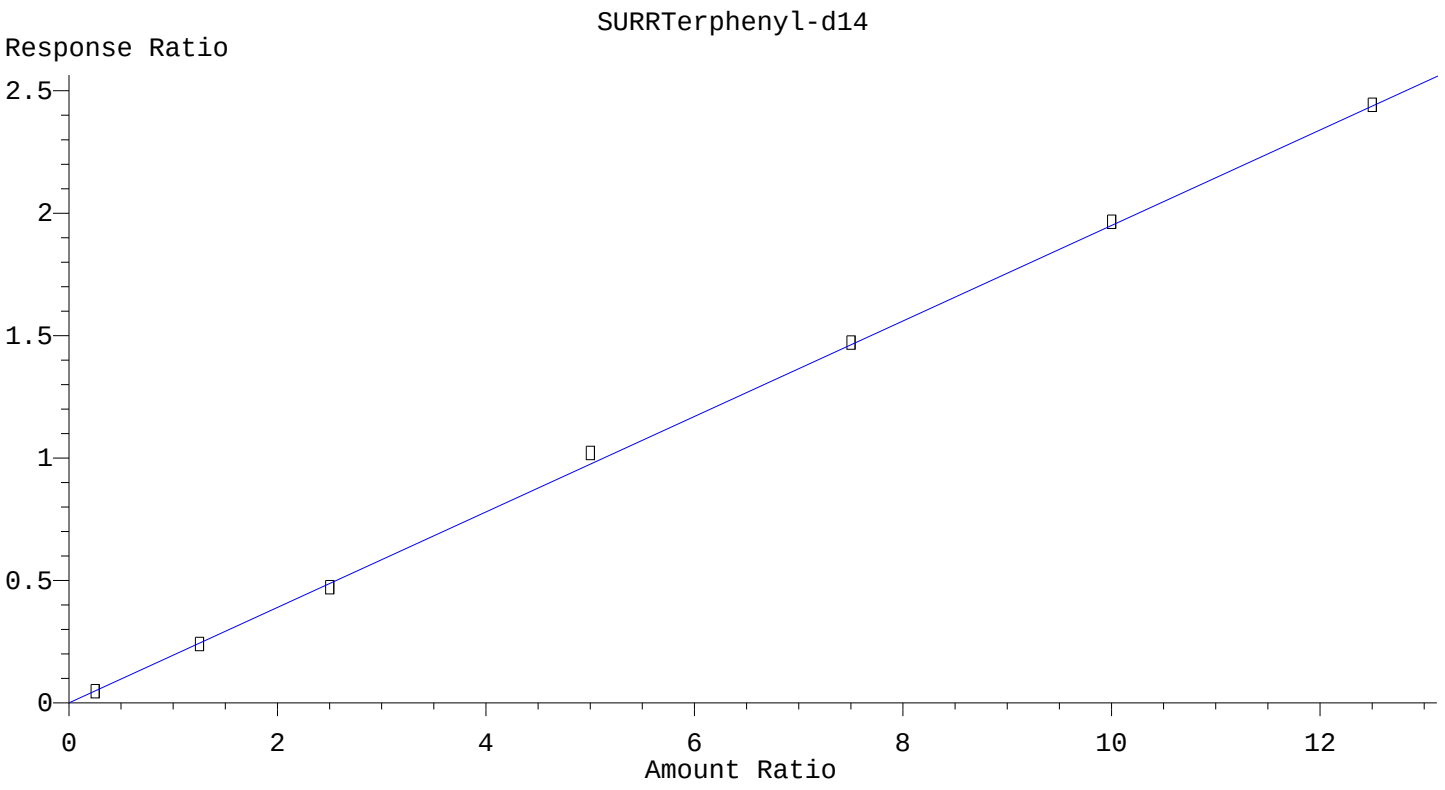

Resp Ratio = 1.029e+000 * Amt
RF Rel Std Dev = 3.820%  Curve Fit: Avg RF



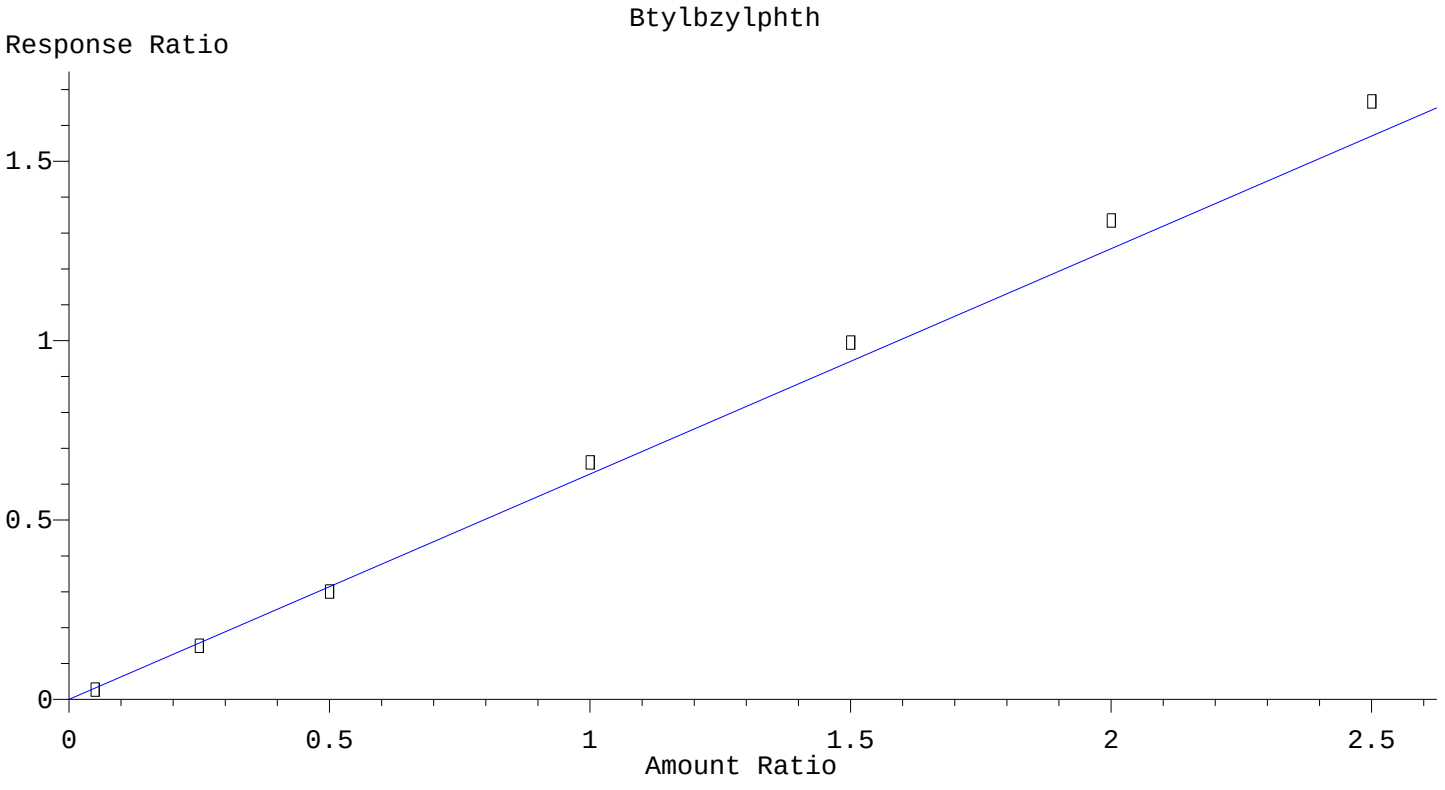

R = 6.134e-002 A*A + 2.118e-001 A + 3.051e-003
Coef of Det (r^2) = 0.999  Curve Fit: Quadratic w(1/a)



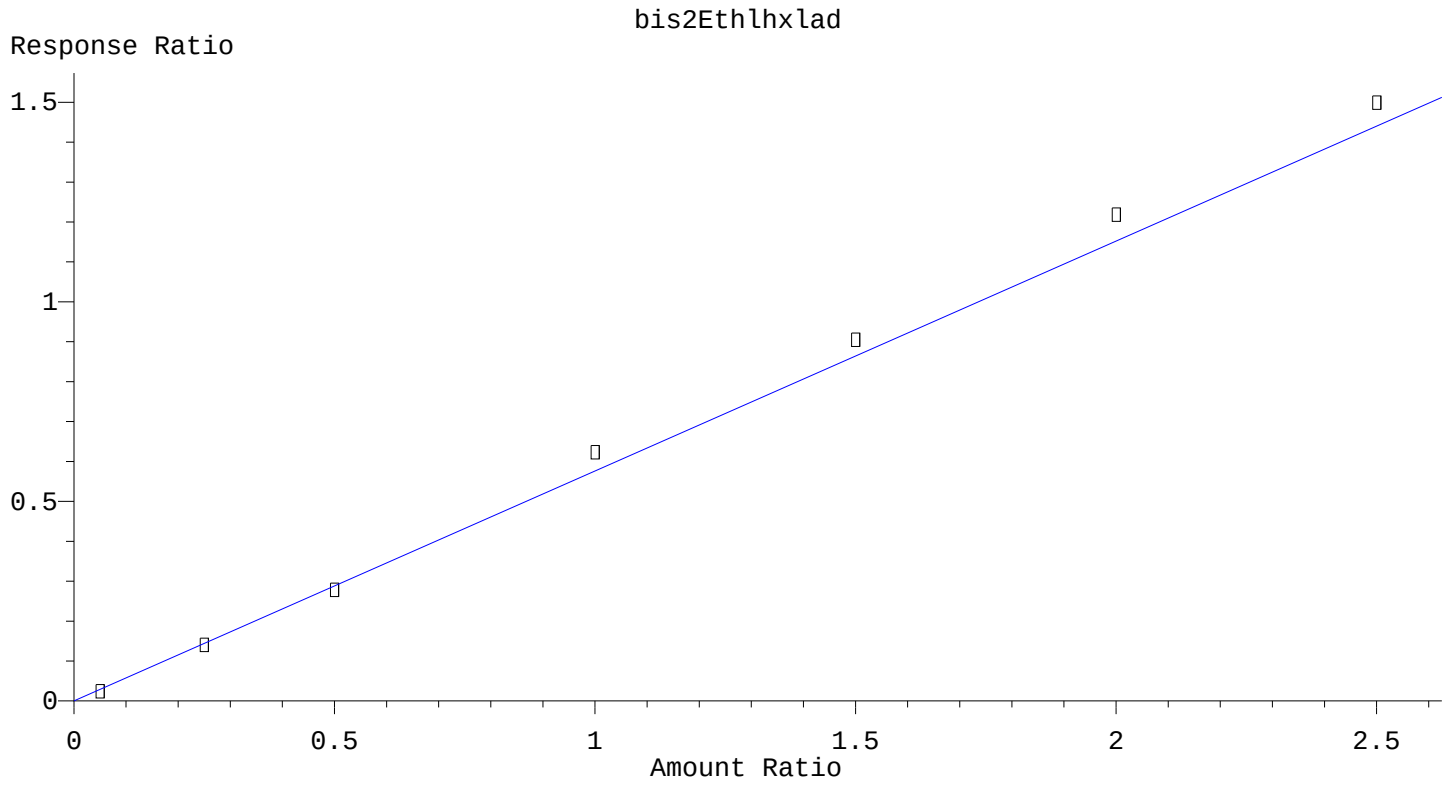

Resp Ratio = 1.270e+000 * Amt
RF Rel Std Dev = 2.207%  Curve Fit: Avg RF



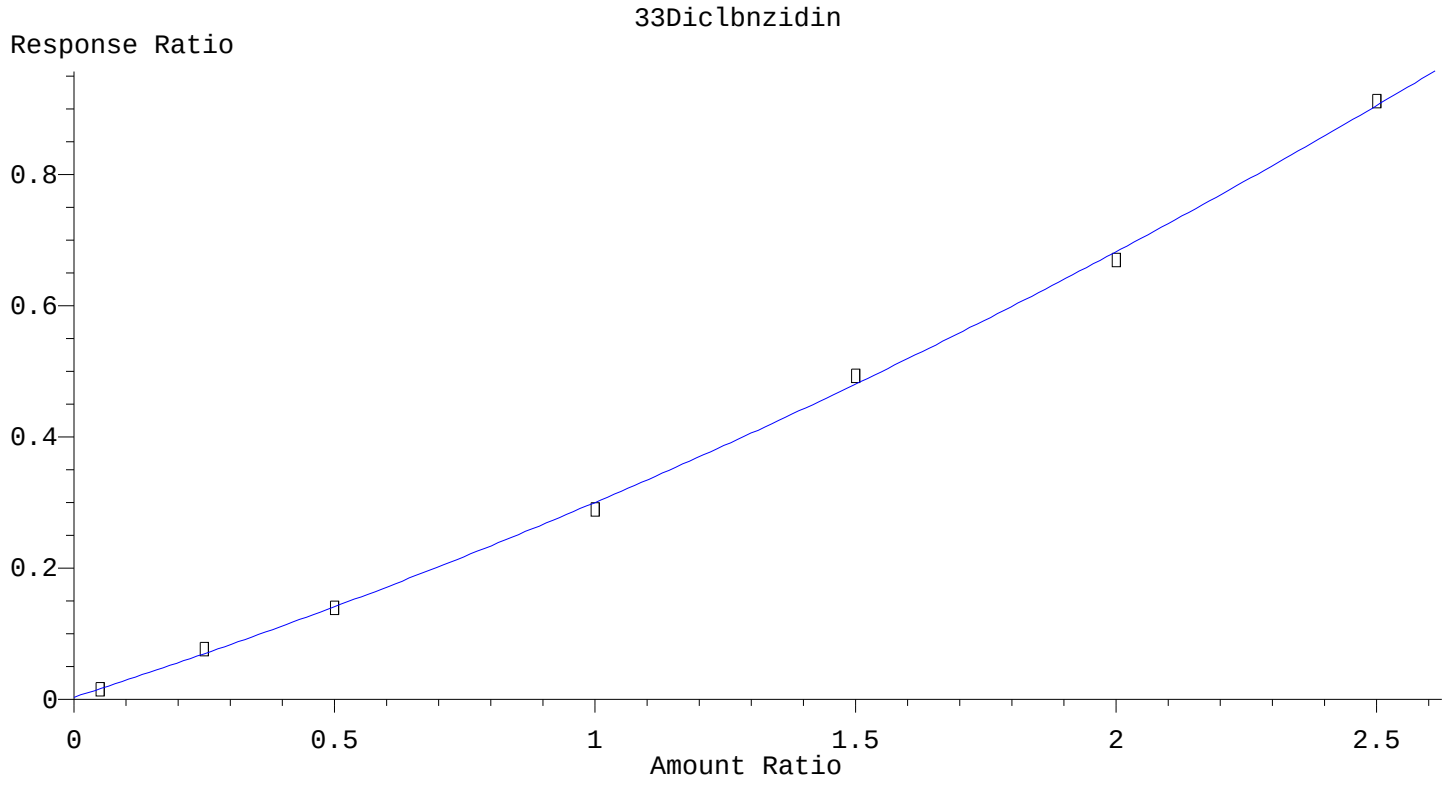

Resp Ratio = 1.950e-001 * Amt
RF Rel Std Dev = 2.485%  Curve Fit: Avg RF




Resp Ratio = 6.281e-001 * Amt
RF Rel Std Dev = 7.861%  Curve Fit: Avg RF

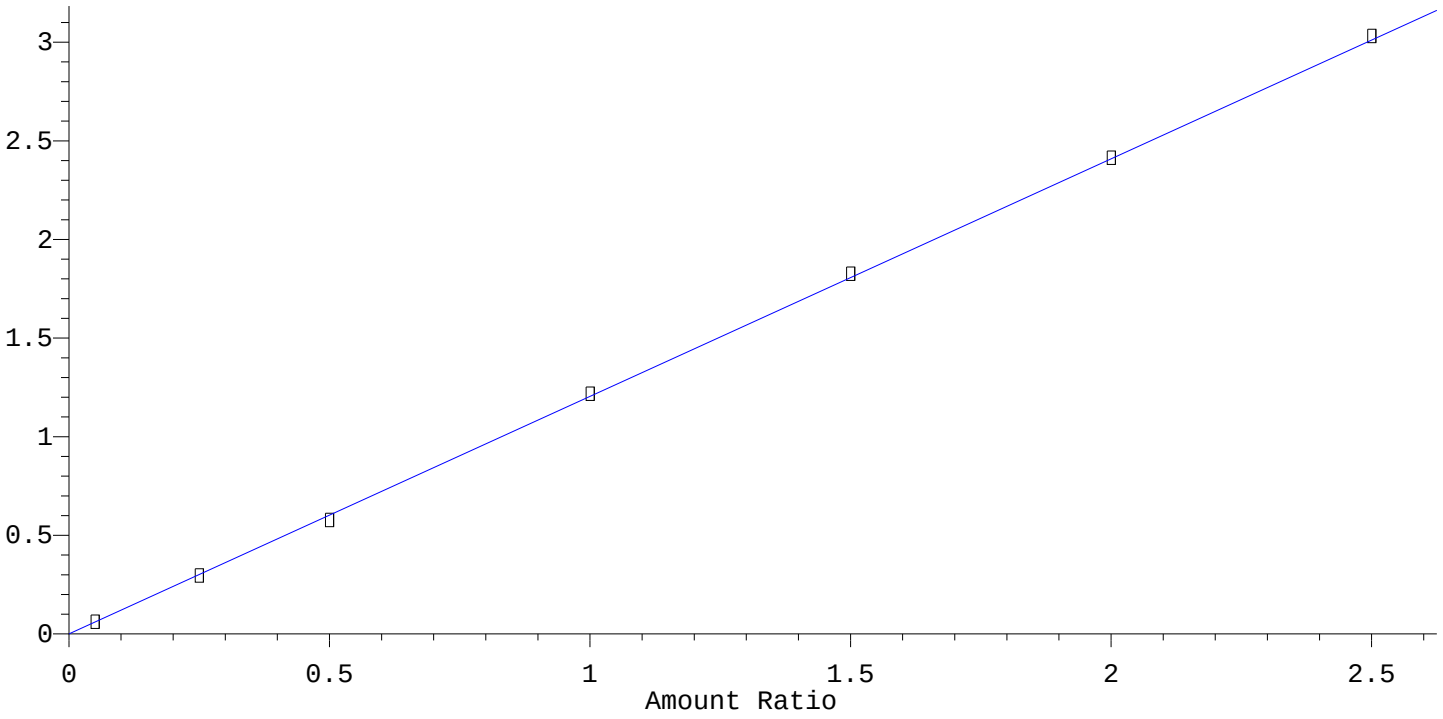



Resp Ratio = 5.758e-001 * Amt
RF Rel Std Dev = 8.617%  Curve Fit: Avg RF



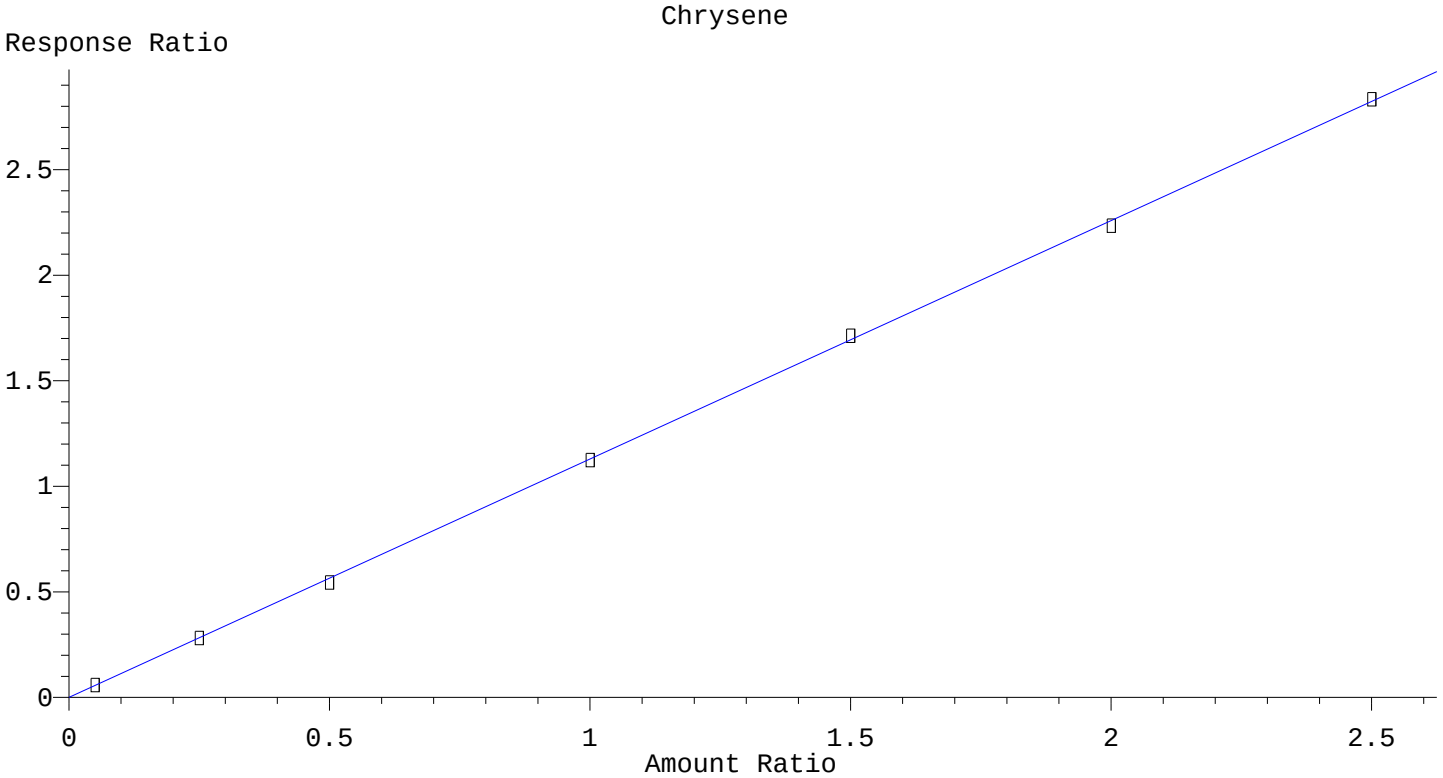

R = 4.263e-002 A*A + 2.542e-001 A + 3.409e-003
Coef of Det (r^2) = 0.999  Curve Fit: Quadratic w(1/a)

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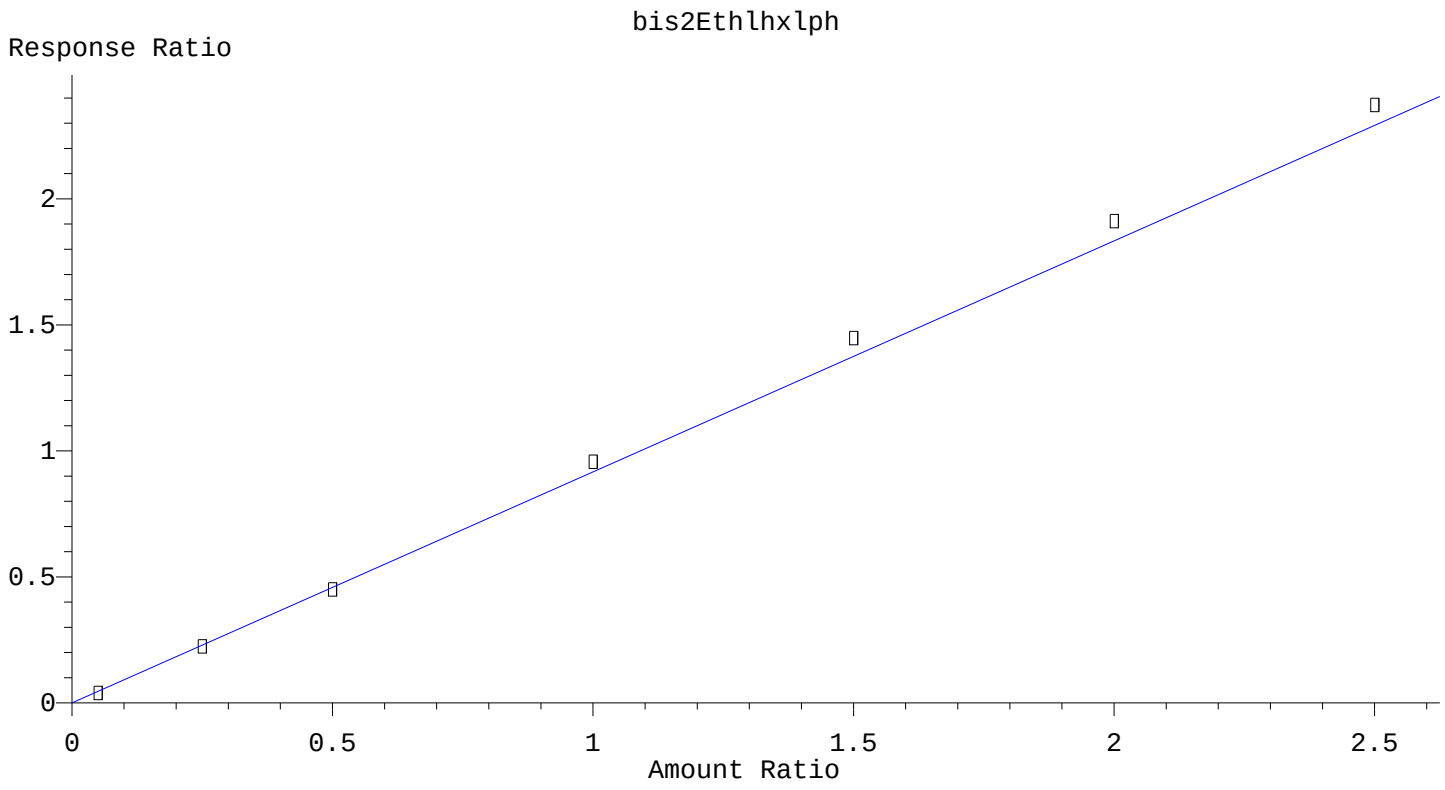



Resp Ratio = 1.204e+000 * Amt
RF Rel Std Dev = 2.128%  Curve Fit: Avg RF

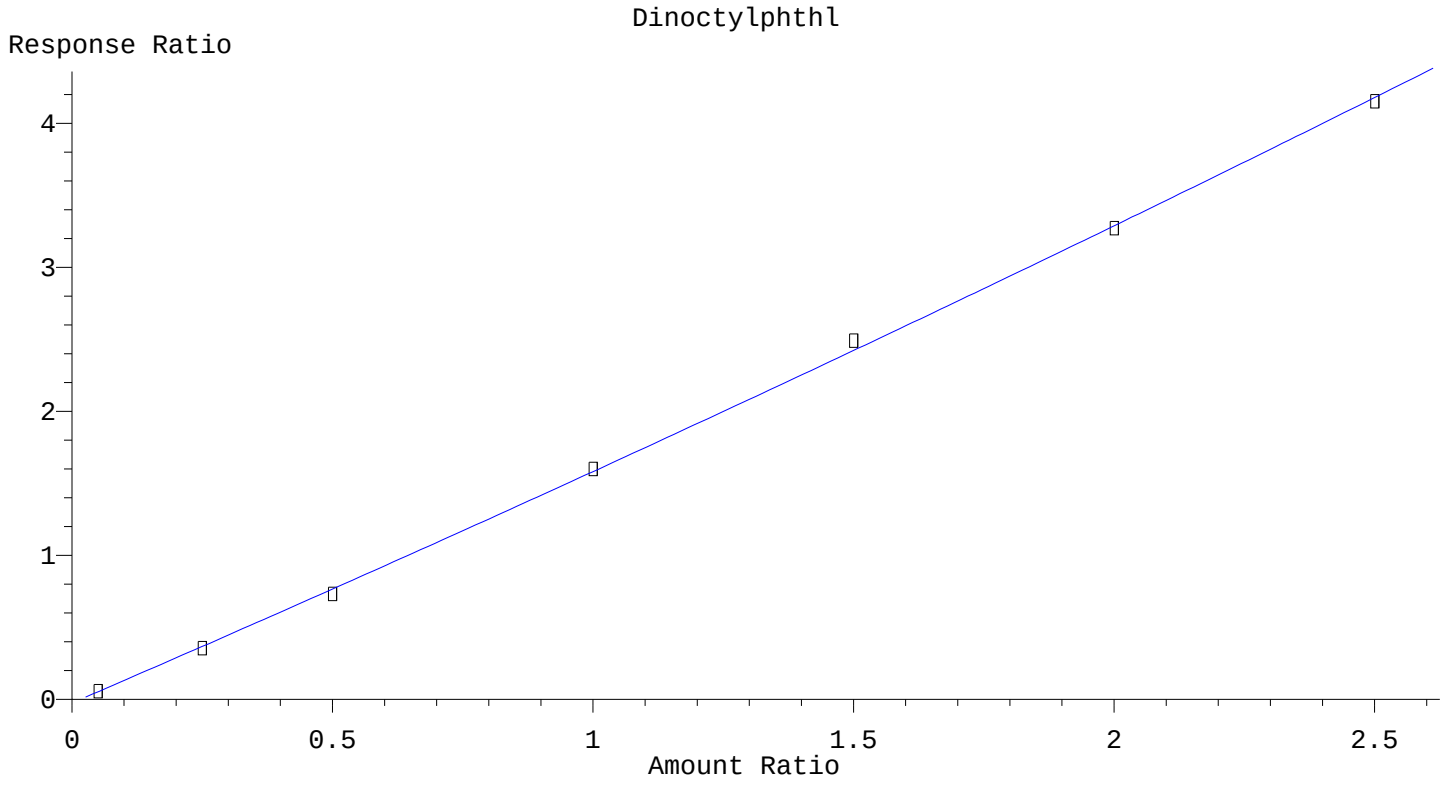
Chrysene



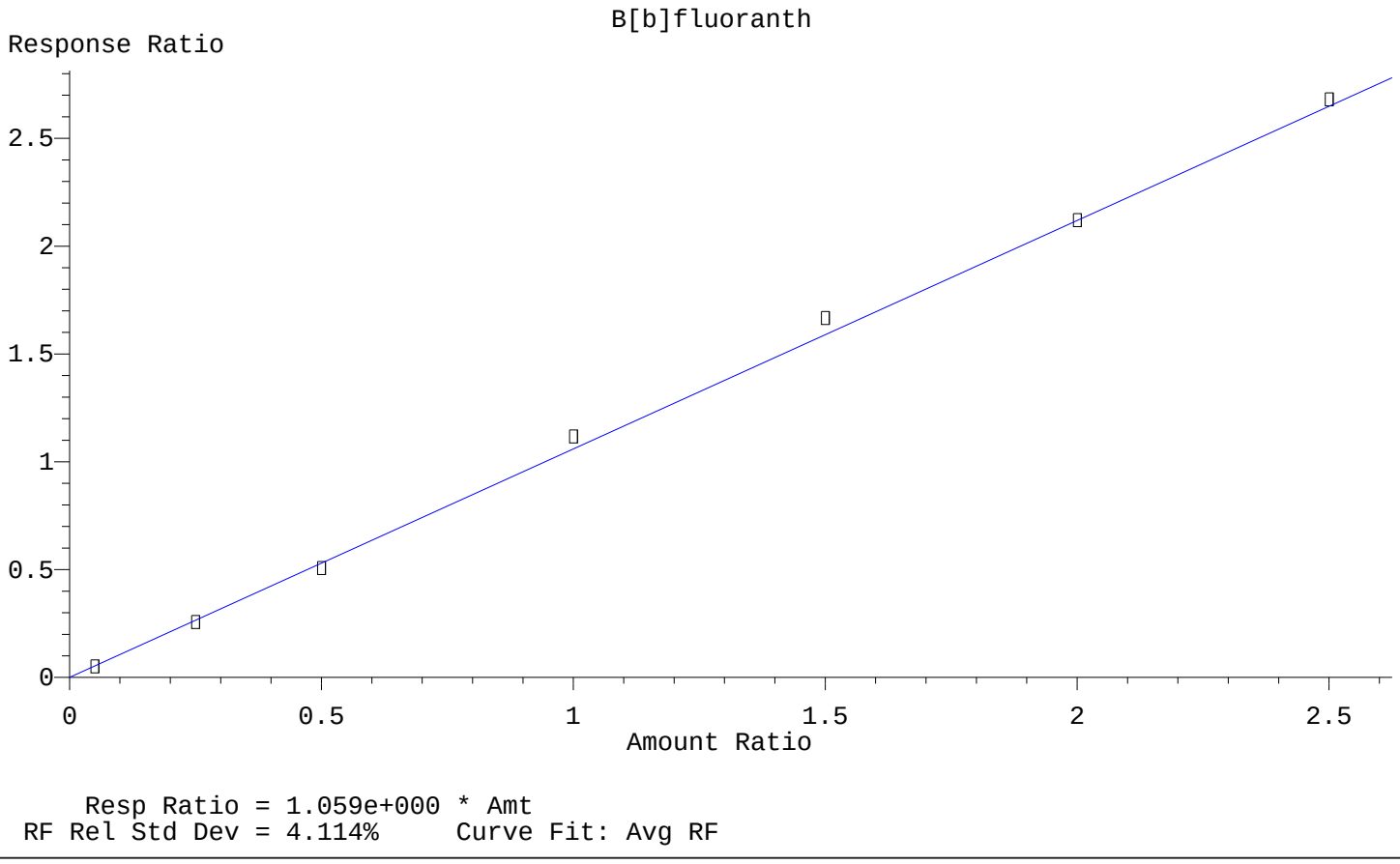

Resp Ratio = 1.129e+000 * Amt
RF Rel Std Dev = 2.299%  Curve Fit: Avg RF



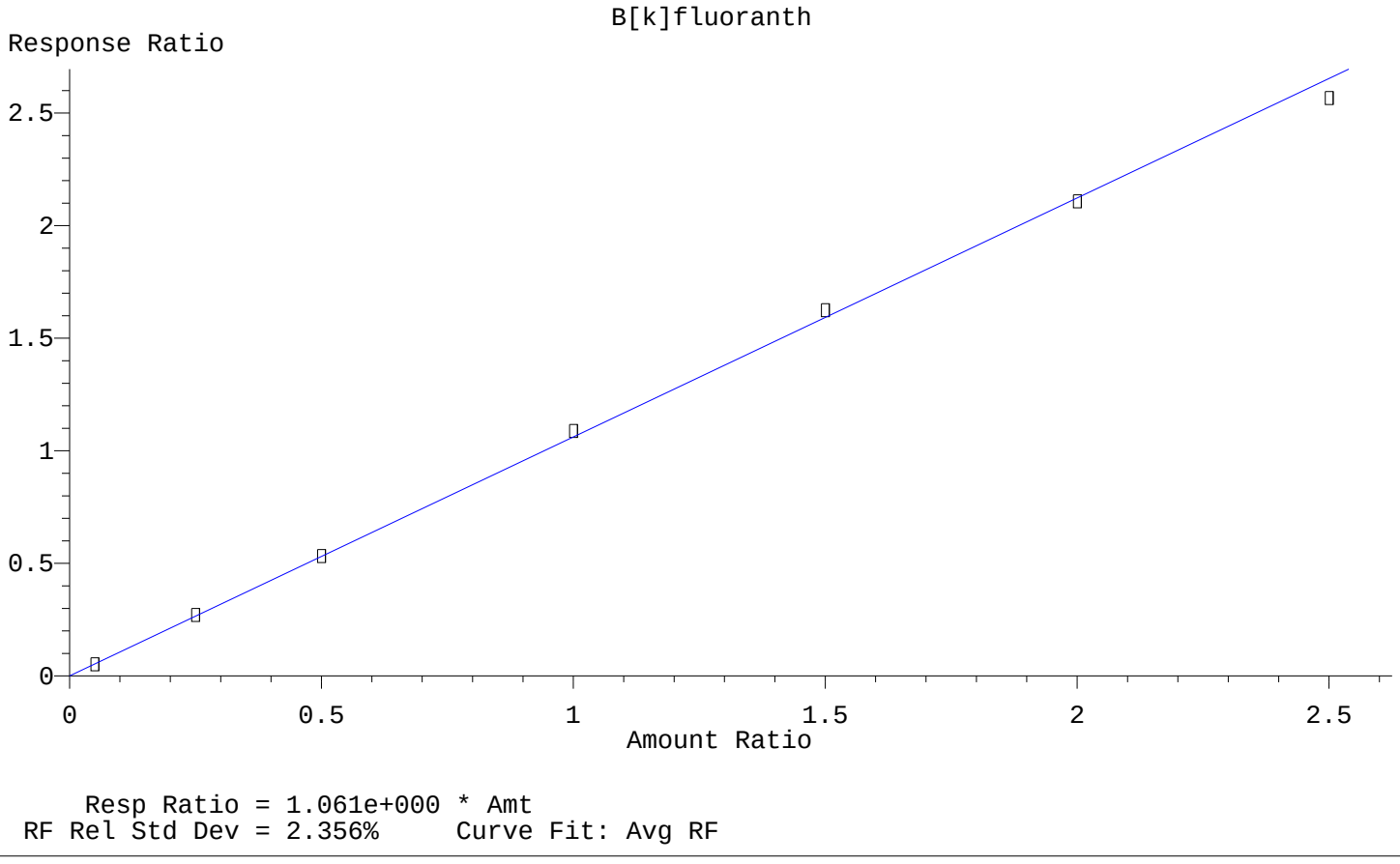

Resp Ratio = 9.164e-001 * Amt
RF Rel Std Dev = 6.720%  Curve Fit: Avg RF



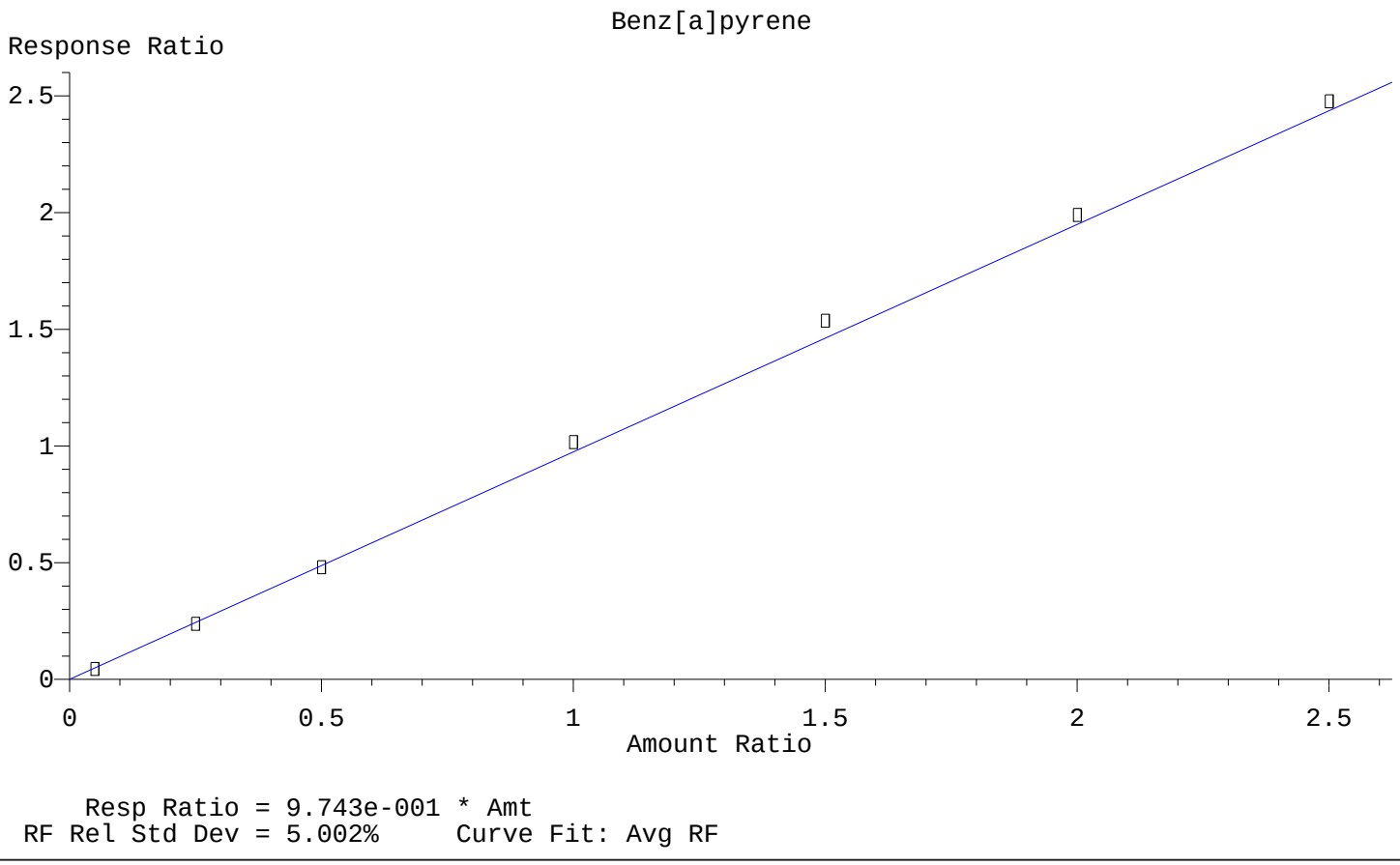

R = 5.007e-002 A*A + 1.556e+000 A - 2.449e-002
Coef of Det (r^2) = 1.000  Curve Fit: Quadratic w(1/a)



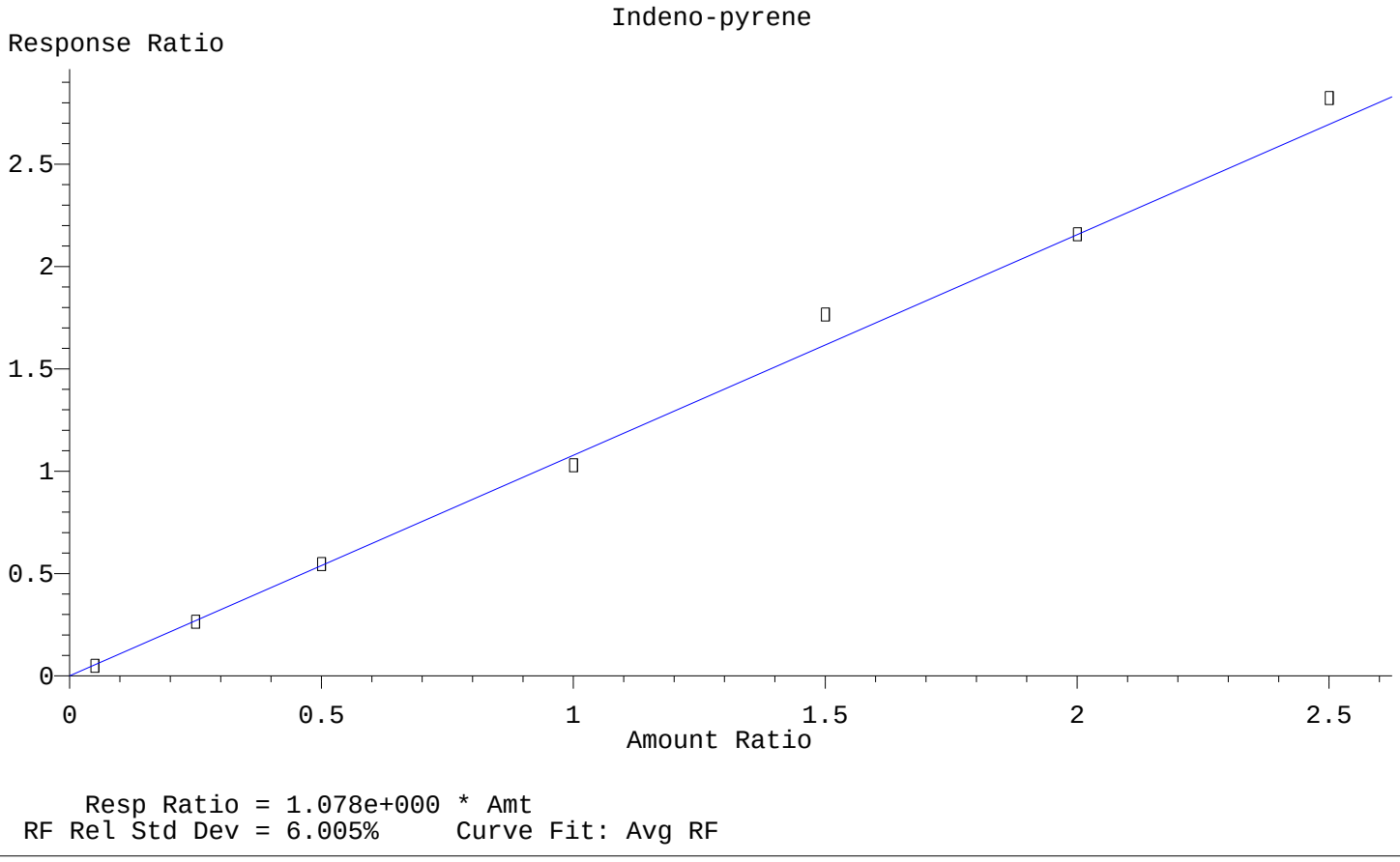

Resp Ratio = 1.059e+000 * Amt
RF Rel Std Dev = 4.114%  Curve Fit: Avg RF




Resp Ratio = 1.061e+000 * Amt
RF Rel Std Dev = 2.356%  Curve Fit: Avg RF

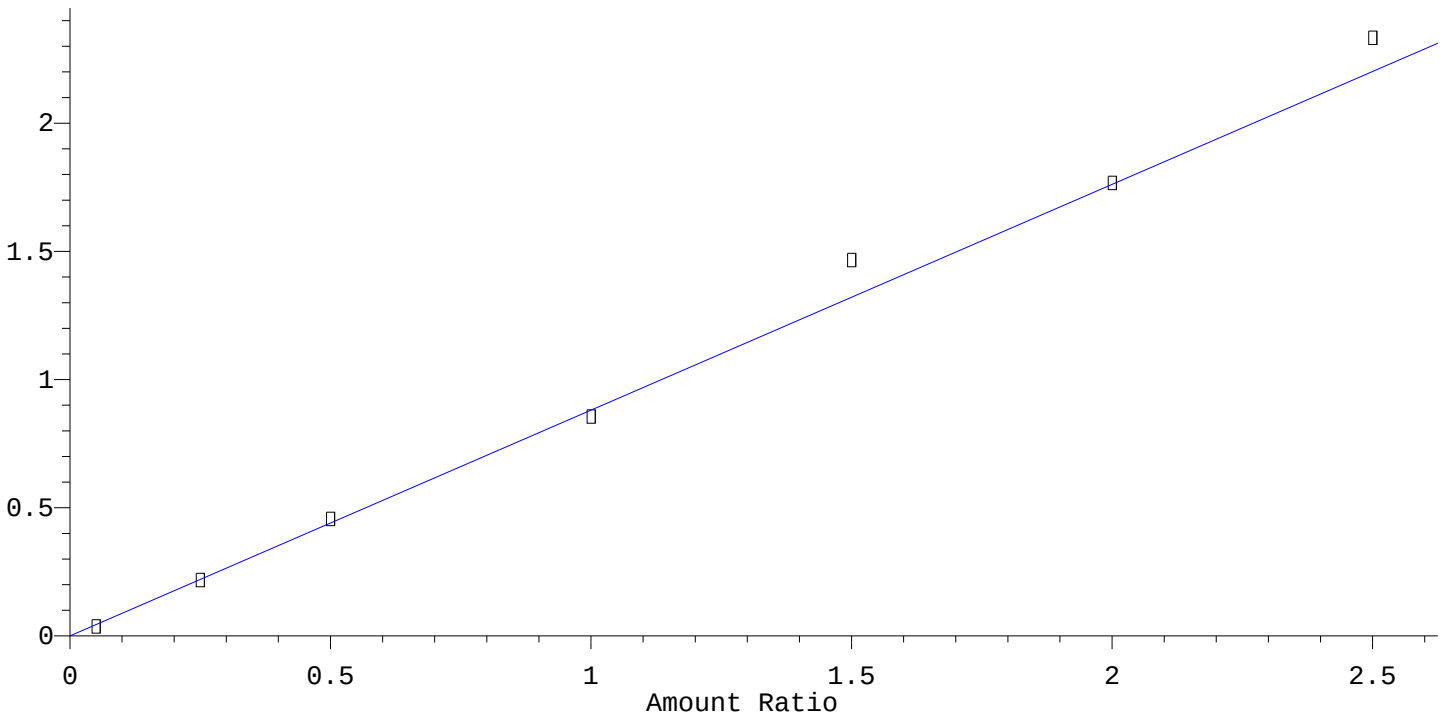



Resp Ratio = 9.743e-001 * Amt
RF Rel Std Dev = 5.002%  Curve Fit: Avg RF



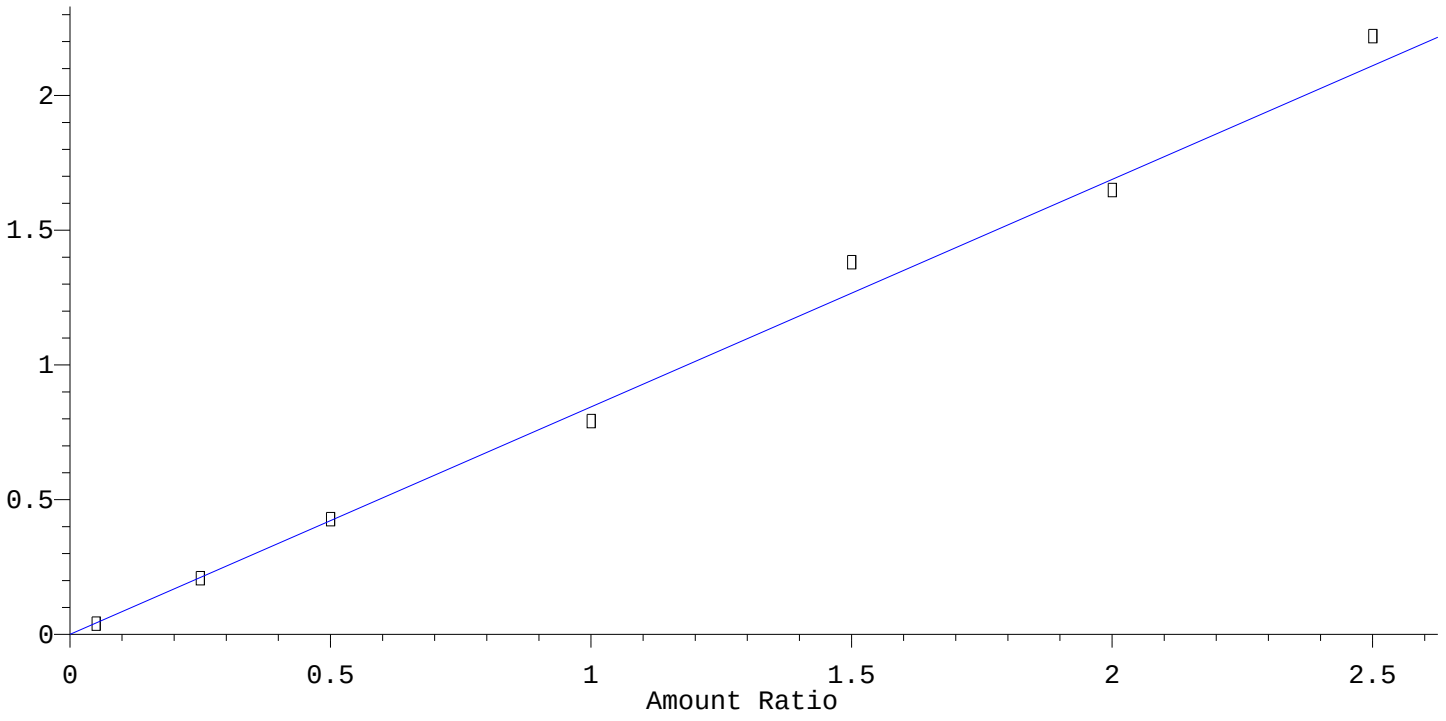

Resp Ratio = 1.078e+000 * Amt
RF Rel Std Dev = 6.005%  Curve Fit: Avg RF

Dib[ah]anthr




Resp Ratio = 8.809e-001 * Amt
RF Rel Std Dev = 8.802%  Curve Fit: Avg RF

B[ghi]perylen




Resp Ratio = 8.443e-001 * Amt
RF Rel Std Dev = 5.620%  Curve Fit: Avg RF

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Benzoic Acid |
| **# of Calibration Levels (*n* ):** | 6 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | | | 0 | *0.00%* |
| 2 | 5 | 5.2514 | 0.000842693 | *5.03%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.0018 | 2.7E-09 | *0.01%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000842696 | |
| | | ***% RSE*:** | ***2.90%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 2-Nitroaniline |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n - p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.0437 | 0.000477423 | *4.37%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.2737 | 4.68198E-05 | *1.37%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000524242 | |
| | | ***% RSE*:** | ***2.29%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 3-Nitroaniline |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.0415 | 0.000430563 | *4.15%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.3729 | 8.6909E-05 | *1.86%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000517472 | |
| | | ***% RSE*:** | ***2.27%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 2,4-Dinitrophenol |
| **# of Calibration Levels (*n* ):** | 6 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | | | 0 | *0.00%* |
| 2 | 5 | 5.4551 | 0.002761547 | *9.10%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.694 | 0.000401363 | *3.47%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.00316291 | |
| | | ***% RSE*:** | ***5.62%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 4-Nitrophenol |
| **# of Calibration Levels (*n* ):** | 6 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | | | 0 | *0.00%* |
| 2 | 5 | 5.1833 | 0.000447985 | *3.67%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.6059 | 0.000305929 | *3.03%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000753914 | |
| | | ***% RSE*:** | ***2.75%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 2,3,5,6-Tetrachlorophenol |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.063 | 0.00099225 | *6.30%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.6788 | 0.000287981 | *3.39%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.001280231 | |
| | | ***% RSE*:** | ***3.58%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 2,3,4,6-Tetrachlorophenol |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.0279 | 0.000194603 | *2.79%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.433 | 0.000117181 | *2.17%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000311783 | |
| | | ***% RSE*:** | ***1.77%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 4-Nitroaniline |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.0813 | 0.001652423 | *8.13%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.0898 | 5.04003E-06 | *0.45%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.001657463 | |
| | | ***% RSE*:** | ***4.07%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 4,6-Dinitro-2-Methylphenol |
| **# of Calibration Levels (*n* ):** | 6 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | | | 0 | *0.00%* |
| 2 | 5 | 5.218 | 0.000633653 | *4.36%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 19.9719 | 6.58008E-07 | *0.14%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000634311 | |
| | | ***% RSE*:** | ***2.52%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Pentachlorophenol |
| **# of Calibration Levels (*n* ):** | 6 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | | | 0 | *0.00%* |
| 2 | 5 | 5.266 | 0.000943413 | *5.32%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.1039 | 8.99601E-06 | *0.52%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000952409 | |
| | | ***% RSE*:** | ***3.09%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Benzidine |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n - p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 0.9138 | 0.00185761 | *8.62%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 19.3651 | 0.000251936 | *3.17%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.002109546 | |
| | | ***% RSE*:** | ***4.59%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | 3,3-Dichlorobenzidine |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 0.9286 | 0.00127449 | *7.14%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 19.3584 | 0.000257282 | *3.21%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.001531772 | |
| | | ***% RSE*:** | ***3.91%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

# % Relative Standard Error (RSE) and % Relative Error (RE) Calculation Spreadsheet

| | |
|---|---|
| **Instrument ID:** | SV GC/MS2 |
| **ICAL ID:** | 2S040925 |
| **ICAL Date:** | 04/09/2025 |
| **Analytical Method:** | 8270 |
| **Analyte/Compound:** | Di-n-octylphthalate |
| **# of Calibration Levels (*n* ):** | 7 |
| **Curve Order* (*p* ):** | 3 |

$$\%RSE = 100 \times \sqrt{\sum_{i=1}^{n} \frac{\left[\frac{x_i' - x_i}{x_i}\right]^2}{n-p}}$$

***Type of Curve:**
Average, $p$ = 1
Linear, $p$ = 2
Quadratic, $p$ = 3

| Calibration Level (*n* ) | True Value ($x_i$) | Measured Value ($x'_i$) | Standard Error | *% Relative Error*** |
|---|---|---|---|---|
| 1 | 1 | 1.0466 | 0.00054289 | *4.66%* |
| 2 | | | 0 | *0.00%* |
| 3 | | | 0 | *0.00%* |
| 4 | 20 | 20.2222 | 3.0858E-05 | *1.11%* |
| 5 | | | 0 | *0.00%* |
| 6 | | | 0 | *0.00%* |
| 7 | | | 0 | *0.00%* |
| 8 | | | 0 | *0.00%* |
| 9 | | | 0 | *0.00%* |
| 10 | | | 0 | *0.00%* |
| | | *Sum of Standard Errors:* | 0.000573748 | |
| | | ***% RSE*:** | ***2.40%*** | |

Note: It is required for all calibrations not evaluated using average response factore (Average RF), that either the %Relative Standard Error (RSE) be calculated for the entire curve or the %Relative Error (%RE) be evaluated for the first non-zero calibration point and the mid-point.
*The acceptance criteria for %RSE is the same as the method or program required %RSD. In the absence of method or program required criteria, the default %RSE requirement is %RSE < 30%.
**The %RE at the mid-point must meet the established CCV acceptance criteria. The %RE at the low point must meet the method-specified criteria, if available. If no criteria exist, then the laboratory default criteria for %RE is 50-150%.

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2IB01.D Vial: 3
Acq On : 9 Apr 2025 13:41 Operator: JJY
Sample : Instrument Blank Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:53:51 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

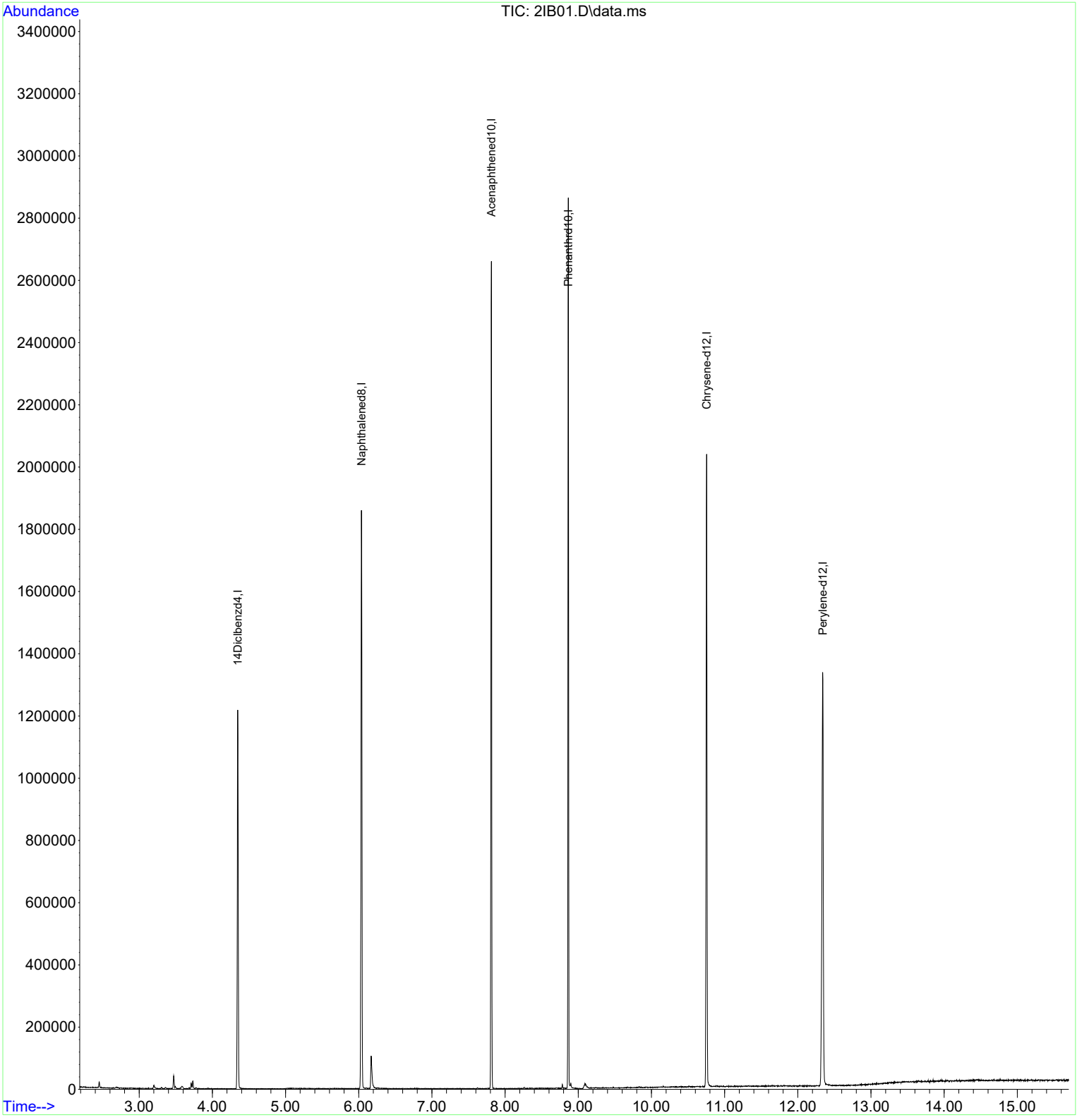
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.346 | 152 | 175946 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.037 | 136 | 837302 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.813 | 164 | 462994 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.864 | 188 | 668041 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.754 | 240 | 597085 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.342 | 264 | 616761 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 0.000 | 112 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 7) SURRPhenol-d5 | 0.000 | 99 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 22) SURRNitrbenzened5 | 0.000 | 82 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 44) SUR2Flbiphenyl | 0.000 | 172 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 62) SURR246Tribrphenl | 0.000 | 330 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| 78) SURRTerphenyl-d14 | 0.000 | 244 | 0 | 0.00 | %REC | |
| Spiked Amount 100.000 | | | Recovery = | 0.00% | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2IB01.D Vial: 3
Acq On : 9 Apr 2025 13:41 Operator: JJY
Sample : Instrument Blank Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:53:51 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL7.D Vial: 4
Acq On : 9 Apr 2025 14:04 Operator: JJY
Sample : ICAL 50 ug/mL SVMS10297 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:35:07 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:34:56 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.352 | 152 | 178386 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.045 | 136 | 854631 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.821 | 164 | 469803 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.867 | 188 | 687516 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.762 | 240 | 557015 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.348 | 264 | 639856 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.107 | 112 | 547801 | 125.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 125.00% | | | |
| 7) SURRPhenol-d5 | 3.943 | 99 | 659780 | 125.00 | %REC | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 125.00% | | | |
| 22) SURRNitrbenzened5 | 5.048 | 82 | 593323 | 250.00 | %REC | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 250.00% | | | |
| 44) SURR2Flbiphenyl | 7.236 | 172 | 1328226 | 250.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 250.00% | | | |
| 62) SURR246Tribrphenl | 8.424 | 330 | 161089 | 125.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 125.00% | | | |
| 78) SURRTerphenyl-d14 | 9.941 | 244 | 1360660 | 250.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 250.00% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.309 | 74 | 353699 | 50.0000 | ug/mL | 99 |
| 3) Pyridine | 2.326 | 79 | 627339 | 50.0000 | ug/mL | 98 |
| 5) Aniline | 3.991 | 93 | 840682 | 50.0000 | ug/mL | 99 |
| 6) bis2Clethletr | 4.059 | 93 | 538589 | 50.0000 | ug/mL | 99 |
| 8) Phenol | 3.960 | 94 | 670329 | 50.0000 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.116 | 128 | 605490 | 50.0000 | ug/mL | 98 |
| 10) 13Diclbenz | 4.287 | 146 | 644115 | 50.0000 | ug/mL | 99 |
| 11) 14Diclbenz | 4.372 | 146 | 647480 | 50.0000 | ug/mL | 99 |
| 12) 12Diclbenz | 4.551 | 146 | 613536 | 50.0000 | ug/mL | 99 |
| 13) Benzyl alcoho | 4.522 | 108 | 396999 | 50.0000 | ug/mL | 99 |
| 14) bis2clispreth | 4.696 | 45 | 1019742 | 50.0000 | ug/mL | 98 |
| 15) 2Methylphenol | 4.662 | 107 | 463940 | 50.0000 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.841 | 100 | 297588 | 50.0000 | ug/mL | 96 |
| 17) Acetophenone | 4.858 | 105 | 833099 | 50.0000 | ug/mL | 97 |
| 18) Hexaclethane | 4.974 | 117 | 257593 | 50.0000 | ug/mL | 98 |
| 19) N-Ntrsdinprop | 4.872 | 70 | 407823 | 50.0000 | ug/mL | 99 |
| 20) 3&4Methylphenol | 4.878 | 107 | 598154 | 50.0000 | ug/mL | 93 |
| 23) Nitrobenzene | 5.074 | 77 | 565530 | 50.0000 | ug/mL | 99 |
| 24) Isophorone | 5.443 | 82 | 1209923 | 50.0000 | ug/mL | 100 |
| 25) 2-Nitrophenol | 5.537 | 139 | 376972 | 50.0000 | ug/mL | 99 |
| 26) 24Dimthpheno | 5.636 | 122 | 565964 | 50.0000 | ug/mL | 99 |
| 27) bis2clethoxym | 5.770 | 93 | 735245 | 50.0000 | ug/mL | 98 |
| 28) 24Diclphenol | 5.881 | 162 | 543136 | 50.0000 | ug/mL | 99 |
| 29) 124Triclbenz | 5.980 | 180 | 591191 | 50.0000 | ug/mL | 97 |
| 30) Benzoic acid | 5.855 | 122 | 340031 | 50.0000 | ug/mL | 94 |
| 31) Naphthalene | 6.074 | 128 | 1863252 | 50.0000 | ug/mL | 98 |
| 32) 4-Cl-aniline | 6.165 | 127 | 787715 | 50.0000 | ug/mL | 99 |
| 33) 26Diclphenol | 6.168 | 162 | 515308 | 50.0000 | ug/mL | 97 |
| 34) Hexaclprop | 6.188 | 213 | 397659 | 50.0000 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.244 | 225 | 346399 | 50.0000 | ug/mL | 98 |
| 36) 4Cl3methylphe | 6.736 | 107 | 554039 | 50.0000 | ug/mL | 95 |
| 37) 2Methylnaphth | 6.864 | 142 | 1144366 | 50.0000 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.960 | 142 | 1183546 | 50.0000 | ug/mL | 99 |
| 40) Hxclcycpentdi | 7.029 | 237 | 376300 | 50.0000 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL7.D Vial: 4
Acq On : 9 Apr 2025 14:04 Operator: JJY
Sample : ICAL 50 ug/mL SVMS10297 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:35:07 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:34:56 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

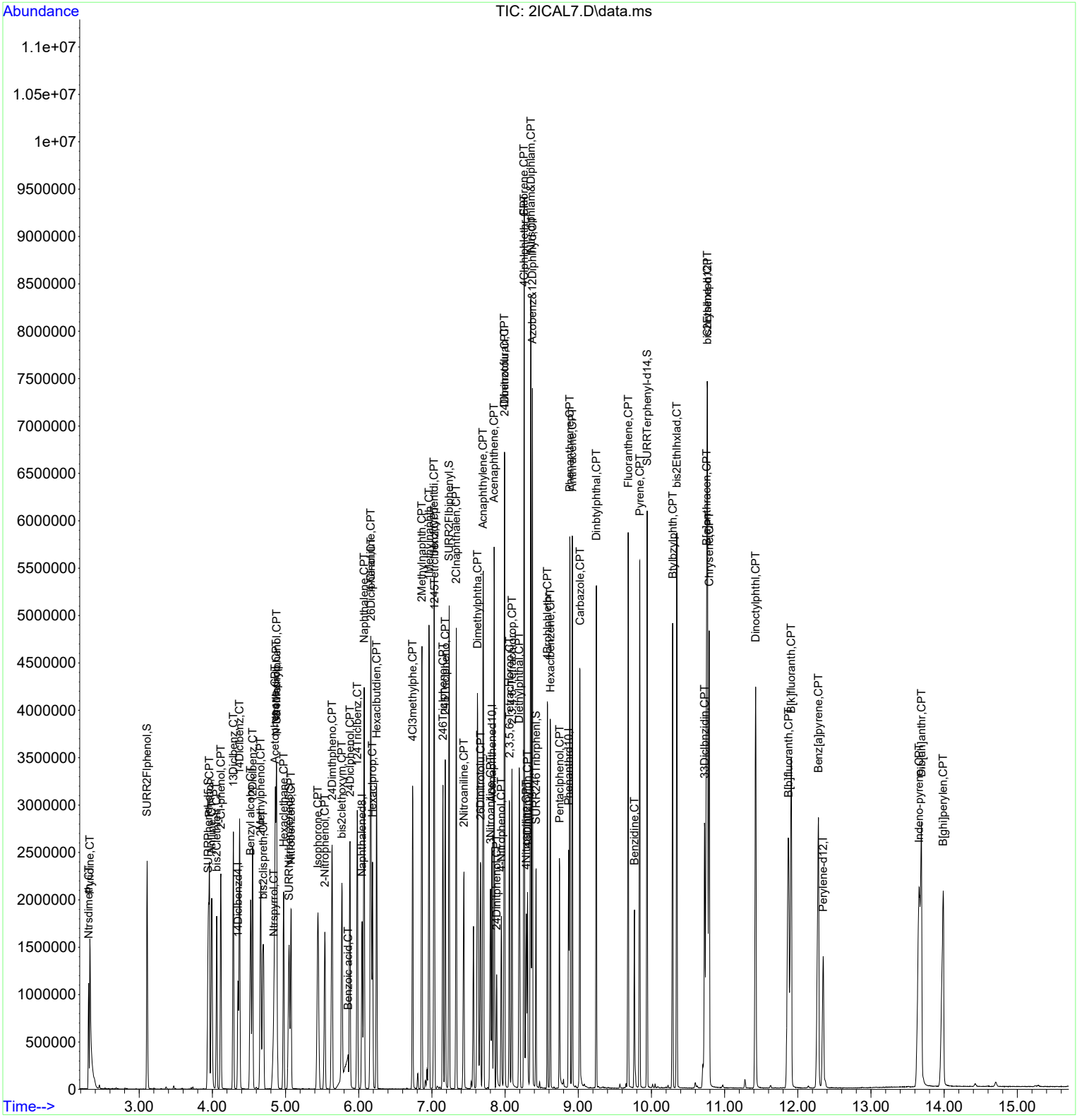
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.034 | 216 | 520860 | 50.0000 | ug/mL | 99 |
| 42) 246Triclpheno | 7.151 | 196 | 375354 | 50.0000 | ug/mL | 94 |
| 43) 245Triclpheno | 7.182 | 196 | 404145 | 50.0000 | ug/mL | 95 |
| 45) 2Clnaphthalen | 7.333 | 162 | 1154973 | 50.0000 | ug/mL | 97 |
| 46) 2Nitroaniline | 7.438 | 65 | 377683 | 50.0000 | ug/mL | 97 |
| 47) Acnaphthylene | 7.699 | 152 | 1792169 | 50.0000 | ug/mL | 97 |
| 48) Dimethylphtha | 7.622 | 163 | 1346228 | 50.0000 | ug/mL | 99 |
| 49) 26Dinitrotolu | 7.665 | 165 | 318289 | 50.0000 | ug/mL | 91 |
| 50) Acenaphthene | 7.850 | 154 | 1086156 | 50.0000 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.801 | 138 | 352888 | 50.0000 | ug/mL | 96 |
| 52) 24Dinitphenol | 7.884 | 184 | 152897 | 50.0000 | ug/mL | 92 |
| 53) Dibenzofuran | 7.992 | 168 | 1517372 | 50.0000 | ug/mL | 98 |
| 54) 24Dinitrotolu | 7.995 | 165 | 424093 | 50.0000 | ug/mL | 99 |
| 55) 4-Nitrophenol | 7.949 | 65 | 240181 | 50.0000 | ug/mL | 97 |
| 56) 2,3,5,6-Tetrachlorop | 8.060 | 232 | 307292 | 50.0000 | ug/mL | 98 |
| 57) 2,3,4,6-Tetrachlorop | 8.094 | 232 | 309662 | 50.0000 | ug/mL | 96 |
| 58) Fluorene | 8.259 | 166 | 1143775 | 50.0000 | ug/mL | 99 |
| 59) 4Clphlphlethr | 8.262 | 204 | 538514 | 50.0000 | ug/mL | 98 |
| 60) Diethylphthal | 8.194 | 149 | 1356460 | 50.0000 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.290 | 138 | 309862 | 50.0000 | ug/mL | 99 |
| 64) 46Dinit2mylph | 8.307 | 198 | 216036 | 50.0000 | ug/mL | 92 |
| 65) Ntrsdiphlam&Diphlam | 8.353 | 169 | 1613679 | 100.0000 | ug/mL | 98 |
| 66) Azobenz&12Diphlhyd | 8.373 | 182 | 588853 | 100.0000 | ug/mL | 94 |
| 67) 4Brphlphlethr | 8.580 | 248 | 313644 | 50.0000 | ug/mL | 97 |
| 68) Hexaclbenzene | 8.620 | 284 | 348452 | 50.0000 | ug/mL | 99 |
| 69) Pentaclphenol | 8.745 | 266 | 182352 | 50.0000 | ug/mL | 96 |
| 70) Phenanthrene | 8.884 | 178 | 1537118 | 50.0000 | ug/mL | 98 |
| 71) Anthracene | 8.918 | 178 | 1588406 | 50.0000 | ug/mL | 98 |
| 72) Carbazole | 9.023 | 167 | 1374211 | 50.0000 | ug/mL | 99 |
| 73) Dinbtylphthal | 9.248 | 149 | 1918469 | 50.0000 | ug/mL | 99 |
| 74) Fluoranthene | 9.683 | 202 | 1670455 | 50.0000 | ug/mL | 97 |
| 76) Benzidine | 9.768 | 184 | 511579 | 50.0000 | ug/mL | 98 |
| 77) Pyrene | 9.842 | 202 | 1731176 | 50.0000 | ug/mL | 98 |
| 79) Btylbzylphth | 10.291 | 149 | 928410 | 50.0000 | ug/mL | 97 |
| 80) bis2Ethlhxlad | 10.347 | 129 | 834930 | 50.0000 | ug/mL | 98 |
| 81) 33Diclbnzidin | 10.725 | 252 | 507963 | 50.0000 | ug/mL | 97 |
| 82) B[a]anthracen | 10.754 | 228 | 1688623 | 50.0000 | ug/mL | 97 |
| 83) Chrysene | 10.791 | 228 | 1577977 | 50.0000 | ug/mL | 97 |
| 84) bis2Ethlhxlph | 10.765 | 149 | 1321471 | 50.0000 | ug/mL | 99 |
| 85) Dinoctylphthl | 11.424 | 149 | 2312713 | 50.0000 | ug/mL | 98 |
| 87) B[b]fluoranth | 11.873 | 252 | 1715256 | 50.0000 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.910 | 252 | 1642305 | 50.0000 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.282 | 252 | 1584687 | 50.0000 | ug/mL | 99 |
| 90) Indeno-pyrene | 13.658 | 276 | 1806378 | 50.0000 | ug/mL | 97 |
| 91) Dib[ah]anthr | 13.689 | 278 | 1492579 | 50.0000 | ug/mL | 99 |
| 92) B[ghi]perylen | 13.987 | 276 | 1420397 | 50.0000 | ug/mL | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL7.D Vial: 4
Acq On : 9 Apr 2025 14:04 Operator: JJY
Sample : ICAL 50 ug/mL SVMS10297 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:35:07 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:34:56 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL6.D Vial: 5
Acq On : 9 Apr 2025 14:28 Operator: JJY
Sample : ICAL 40 ug/mL SVMS10296 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:37:36 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:34:56 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.349 | 152 | 185821 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.043 | 136 | 885672 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.819 | 164 | 486694 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.867 | 188 | 700826 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.762 | 240 | 564279 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.348 | 264 | 617909 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.105 | 112 | 446523 | 97.81 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 97.81% | | | |
| 7) SURRPhenol-d5 | 3.940 | 99 | 547524 | 99.58 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 99.58% | | | |
| 22) SURRNitrbenzened5 | 5.042 | 82 | 491692 | 199.92 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 199.92% | | | |
| 44) SURR2Flbiphenyl | 7.233 | 172 | 1116699 | 202.89 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 202.89% | | | |
| 62) SURR246Tribrphenl | 8.421 | 330 | 132694 | 99.39 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 99.39% | | | |
| 78) SURRTerphenyl-d14 | 9.941 | 244 | 1108695 | 201.08 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 201.08% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.306 | 74 | 289829 | 39.3318 | ug/mL | 97 |
| 3) Pyridine | 2.323 | 79 | 511006 | 39.0985 | ug/mL | 99 |
| 5) Aniline | 3.988 | 93 | 693299 | 39.5845 | ug/mL | 99 |
| 6) bis2Clethletr | 4.057 | 93 | 447998 | 39.9259 | ug/mL | 99 |
| 8) Phenol | 3.954 | 94 | 554096 | 39.6765 | ug/mL | 97 |
| 9) 2-Cl-phenol | 4.113 | 128 | 498505 | 39.5183 | ug/mL | 98 |
| 10) 13Diclbenz | 4.284 | 146 | 530032 | 39.4980 | ug/mL | 98 |
| 11) 14Diclbenz | 4.372 | 146 | 539391 | 39.9865 | ug/mL | 100 |
| 12) 12Diclbenz | 4.548 | 146 | 513290 | 40.1568 | ug/mL | 97 |
| 13) Benzyl alcoho | 4.520 | 108 | 329713 | 39.8642 | ug/mL | 96 |
| 14) bis2clispreth | 4.690 | 45 | 853245 | 40.1624 | ug/mL | 98 |
| 15) 2Methylphenol | 4.659 | 107 | 388719 | 40.2170 | ug/mL | 99 |
| 16) Ntrspyrrol | 4.835 | 100 | 250301 | 40.3723 | ug/mL | 100 |
| 17) Acetophenone | 4.855 | 105 | 693271 | 39.9432 | ug/mL | 96 |
| 18) Hexaclethane | 4.971 | 117 | 213087 | 39.7063 | ug/mL | 96 |
| 19) N-Ntrsdinprop | 4.869 | 70 | 339308 | 39.9354 | ug/mL | 98 |
| 20) 3&4Methylphenol | 4.869 | 107 | 497917 | 39.9558 | ug/mL | 92 |
| 23) Nitrobenzene | 5.071 | 77 | 469059 | 40.0173 | ug/mL | 98 |
| 24) Isophorone | 5.437 | 82 | 994362 | 39.6518 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.534 | 139 | 314510 | 40.2533 | ug/mL | 98 |
| 26) 24Dimthpheno | 5.631 | 122 | 472488 | 40.2789 | ug/mL | 98 |
| 27) bis2clethoxym | 5.770 | 93 | 615516 | 40.3909 | ug/mL | 99 |
| 28) 24Diclphenol | 5.875 | 162 | 447428 | 39.7457 | ug/mL | 97 |
| 29) 124Triclbenz | 5.977 | 180 | 489447 | 39.9442 | ug/mL | 99 |
| 30) Benzoic acid | 5.838 | 122 | 283996 | 40.2967 | ug/mL | 95 |
| 31) Naphthalene | 6.071 | 128 | 1558451 | 40.3550 | ug/mL | 98 |
| 32) 4-Cl-aniline | 6.162 | 127 | 660207 | 40.4377 | ug/mL | 99 |
| 33) 26Diclphenol | 6.165 | 162 | 429904 | 40.2513 | ug/mL | 98 |
| 34) Hexaclprop | 6.185 | 213 | 330436 | 40.0915 | ug/mL | 95 |
| 35) Hexaclbutdien | 6.242 | 225 | 289485 | 40.3204 | ug/mL | 99 |
| 36) 4Cl3methylphe | 6.733 | 107 | 459373 | 40.0038 | ug/mL | 99 |
| 37) 2Methylnaphth | 6.861 | 142 | 950448 | 40.0718 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.958 | 142 | 979622 | 39.9346 | ug/mL | 97 |
| 40) Hxclcycpentdi | 7.026 | 237 | 315774 | 40.5016 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL6.D Vial: 5
Acq On : 9 Apr 2025 14:28 Operator: JJY
Sample : ICAL 40 ug/mL SVMS10296 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:37:36 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:34:56 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

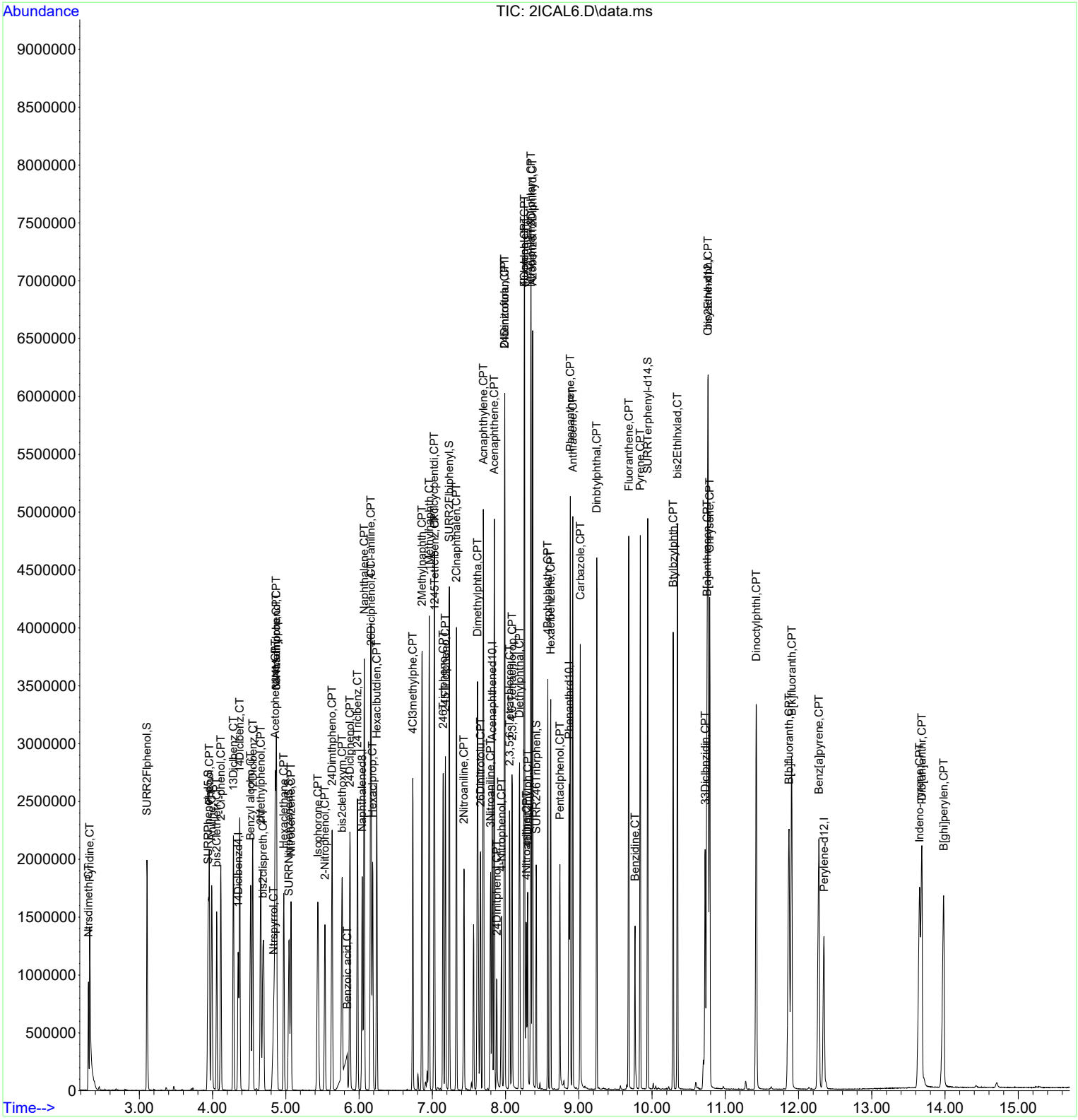
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.032 | 216 | 430397 | 39.8821 ug/mL | 97 |
| 42) 246Triclpheno | 7.148 | 196 | 307071 | 39.4846 ug/mL | 96 |
| 43) 245Triclpheno | 7.179 | 196 | 329546 | 39.3558 ug/mL | 96 |
| 45) 2Clnaphthalen | 7.330 | 162 | 957072 | 39.9947 ug/mL | 98 |
| 46) 2Nitroaniline | 7.432 | 65 | 313093 | 40.0107 ug/mL | 100 |
| 47) Acnaphthylene | 7.696 | 152 | 1510658 | 40.6834 ug/mL | 98 |
| 48) Dimethylphtha | 7.617 | 163 | 1119641 | 40.1412 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.659 | 165 | 264449 | 40.1005 ug/mL | 96 |
| 50) Acenaphthene | 7.847 | 154 | 904898 | 40.2103 ug/mL | 99 |
| 51) 3Nitroaniline | 7.796 | 138 | 287995 | 39.3893 ug/mL | 97 |
| 52) 24Dinitphenol | 7.881 | 184 | 120111 | 37.9152 ug/mL | 93 |
| 53) Dibenzofuran | 7.989 | 168 | 1264636 | 40.2257 ug/mL | 98 |
| 54) 24Dinitrotolu | 7.989 | 165 | 349952 | 39.8270 ug/mL | 94 |
| 55) 4-Nitrophenol | 7.944 | 65 | 194216 | 39.0280 ug/mL | 96 |
| 56) 2,3,5,6-Tetrachlorop | 8.054 | 232 | 246806 | 38.7645 ug/mL | 97 |
| 57) 2,3,4,6-Tetrachlorop | 8.091 | 232 | 252991 | 39.4318 ug/mL | 95 |
| 58) Fluorene | 8.256 | 166 | 960461 | 40.5293 ug/mL | 100 |
| 59) 4Clphlphlethr | 8.259 | 204 | 454909 | 40.7716 ug/mL | 97 |
| 60) Diethylphthal | 8.191 | 149 | 1125256 | 40.0382 ug/mL | 99 |
| 61) 4Nitroaniline | 8.285 | 138 | 249949 | 38.9326 ug/mL | 98 |
| 64) 46Dinit2mylph | 8.302 | 198 | 176016 | 39.9640 ug/mL | 97 |
| 65) Ntrsdiphlam&Diphlam | 8.347 | 169 | 1356368 | 82.4580 ug/mL | 98 |
| 66) Azobenz&12Diphlhyd | 8.370 | 182 | 488651 | 81.4075 ug/mL | 92 |
| 67) 4Brphlphlethr | 8.577 | 248 | 258141 | 40.3704 ug/mL | 97 |
| 68) Hexaclbenzene | 8.617 | 284 | 289775 | 40.7906 ug/mL | 97 |
| 69) Pentaclphenol | 8.742 | 266 | 142767 | 38.4025 ug/mL | 96 |
| 70) Phenanthrene | 8.884 | 178 | 1277484 | 40.7653 ug/mL | 98 |
| 71) Anthracene | 8.918 | 178 | 1317335 | 40.6797 ug/mL | 98 |
| 72) Carbazole | 9.021 | 167 | 1118208 | 39.9128 ug/mL | 99 |
| 73) Dinbtylphthal | 9.245 | 149 | 1600027 | 40.9086 ug/mL | 99 |
| 74) Fluoranthene | 9.683 | 202 | 1365222 | 40.0877 ug/mL | 98 |
| 76) Benzidine | 9.768 | 184 | 373469 | 36.0317 ug/mL | 98 |
| 77) Pyrene | 9.839 | 202 | 1418975 | 40.4554 ug/mL | 99 |
| 79) Btylbzylphth | 10.288 | 149 | 753279 | 40.0460 ug/mL | 100 |
| 80) bis2Ethlhxlad | 10.347 | 129 | 687533 | 40.6431 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.725 | 252 | 377921 | 36.7208 ug/mL | 98 |
| 82) B[a]anthracen | 10.751 | 228 | 1362152 | 39.8140 ug/mL | 99 |
| 83) Chrysene | 10.788 | 228 | 1260838 | 39.4368 ug/mL | 97 |
| 84) bis2Ethlhxlph | 10.765 | 149 | 1078536 | 40.2828 ug/mL | 99 |
| 85) Dinoctylphthl | 11.424 | 149 | 1845970 | 39.3954 ug/mL | 99 |
| 87) B[b]fluoranth | 11.870 | 252 | 1310084 | 39.5456 ug/mL | 99 |
| 88) B[k]fluoranth | 11.907 | 252 | 1302443 | 41.0613 ug/mL | 99 |
| 89) Benz[a]pyrene | 12.280 | 252 | 1229566 | 40.1732 ug/mL | 99 |
| 90) Indeno-pyrene | 13.652 | 276 | 1332959 | 38.2064 ug/mL | 97 |
| 91) Dib[ah]anthr | 13.683 | 278 | 1091795 | 37.8732 ug/mL | 98 |
| 92) B[ghi]perylen | 13.982 | 276 | 1018802 | 37.1371 ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL6.D Vial: 5
Acq On : 9 Apr 2025 14:28 Operator: JJY
Sample : ICAL 40 ug/mL SVMS10296 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:37:36 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:34:56 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL5.D Vial: 6
Acq On : 9 Apr 2025 14:51 Operator: JJY
Sample : ICAL 30 ug/mL SVMS10295 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:39:17 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:39:02 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.349 | 152 | 172965 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.043 | 136 | 825482 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.816 | 164 | 464096 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.867 | 188 | 674293 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.760 | 240 | 578602 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.345 | 264 | 630191 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.105 | 112 | 328171 | 78.08 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 78.08% | | | |
| 7) SURRPhenol-d5 | 3.937 | 99 | 394984 | 77.34 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 77.34% | | | |
| 22) SURRNitrbenzened5 | 5.040 | 82 | 353379 | 154.19 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 154.19% | | | |
| 44) SURR2Flbiphenyl | 7.231 | 172 | 819031 | 154.93 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 154.93% | | | |
| 62) SURR246Tribrphenl | 8.418 | 330 | 97051 | 76.47 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 76.47% | | | |
| 78) SURRTerphenyl-d14 | 9.938 | 244 | 851260 | 150.16 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 150.16% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.306 | 74 | 212374 | 31.2236 | ug/mL | 98 |
| 3) Pyridine | 2.326 | 79 | 370948 | 30.8394 | ug/mL | 97 |
| 5) Aniline | 3.986 | 93 | 500759 | 30.8767 | ug/mL | 99 |
| 6) bis2Clethletr | 4.054 | 93 | 325778 | 31.2205 | ug/mL | 100 |
| 8) Phenol | 3.951 | 94 | 405394 | 31.3128 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.111 | 128 | 359324 | 30.7875 | ug/mL | 99 |
| 10) 13Diclbenz | 4.284 | 146 | 390242 | 31.4396 | ug/mL | 98 |
| 11) 14Diclbenz | 4.369 | 146 | 392885 | 31.2957 | ug/mL | 98 |
| 12) 12Diclbenz | 4.545 | 146 | 372000 | 31.2051 | ug/mL | 98 |
| 13) Benzyl alcoho | 4.517 | 108 | 239351 | 31.1427 | ug/mL | 98 |
| 14) bis2clispreth | 4.693 | 45 | 611367 | 30.8534 | ug/mL | 99 |
| 15) 2Methylphenol | 4.653 | 107 | 278414 | 30.8621 | ug/mL | 99 |
| 16) Ntrspyrrol | 4.824 | 100 | 177014 | 30.5315 | ug/mL | 97 |
| 17) Acetophenone | 4.849 | 105 | 498393 | 30.8714 | ug/mL | 99 |
| 18) Hexaclethane | 4.972 | 117 | 152293 | 30.5996 | ug/mL | 98 |
| 19) N-Ntrsdinprop | 4.861 | 70 | 236578 | 29.9382 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.864 | 107 | 360075 | 31.0594 | ug/mL | 97 |
| 23) Nitrobenzene | 5.065 | 77 | 339072 | 31.0301 | ug/mL | 99 |
| 24) Isophorone | 5.432 | 82 | 715751 | 30.7567 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.531 | 139 | 225672 | 30.8914 | ug/mL | 98 |
| 26) 24Dimthpheno | 5.628 | 122 | 340162 | 31.0046 | ug/mL | 98 |
| 27) bis2clethoxym | 5.764 | 93 | 439466 | 30.7906 | ug/mL | 98 |
| 28) 24Diclphenol | 5.872 | 162 | 327928 | 31.3540 | ug/mL | 98 |
| 29) 124Triclbenz | 5.977 | 180 | 355203 | 31.1238 | ug/mL | 98 |
| 30) Benzoic acid | 5.807 | 122 | 194249 | 29.4628 | ug/mL | 94 |
| 31) Naphthalene | 6.068 | 128 | 1154143 | 31.9232 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.156 | 127 | 472144 | 30.8586 | ug/mL | 99 |
| 33) 26Diclphenol | 6.159 | 162 | 316395 | 31.6841 | ug/mL | 99 |
| 34) Hexaclprop | 6.185 | 213 | 238414 | 31.0003 | ug/mL | 98 |
| 35) Hexaclbutdien | 6.242 | 225 | 210135 | 31.2771 | ug/mL | 98 |
| 36) 4Cl3methylphe | 6.730 | 107 | 329754 | 30.8085 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.858 | 142 | 699984 | 31.6355 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.958 | 142 | 723025 | 31.6493 | ug/mL | 99 |
| 40) Hxclcycpentdi | 7.026 | 237 | 230861 | 30.8589 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL5.D Vial: 6
Acq On : 9 Apr 2025 14:51 Operator: JJY
Sample : ICAL 30 ug/mL SVMS10295 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:39:17 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:39:02 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

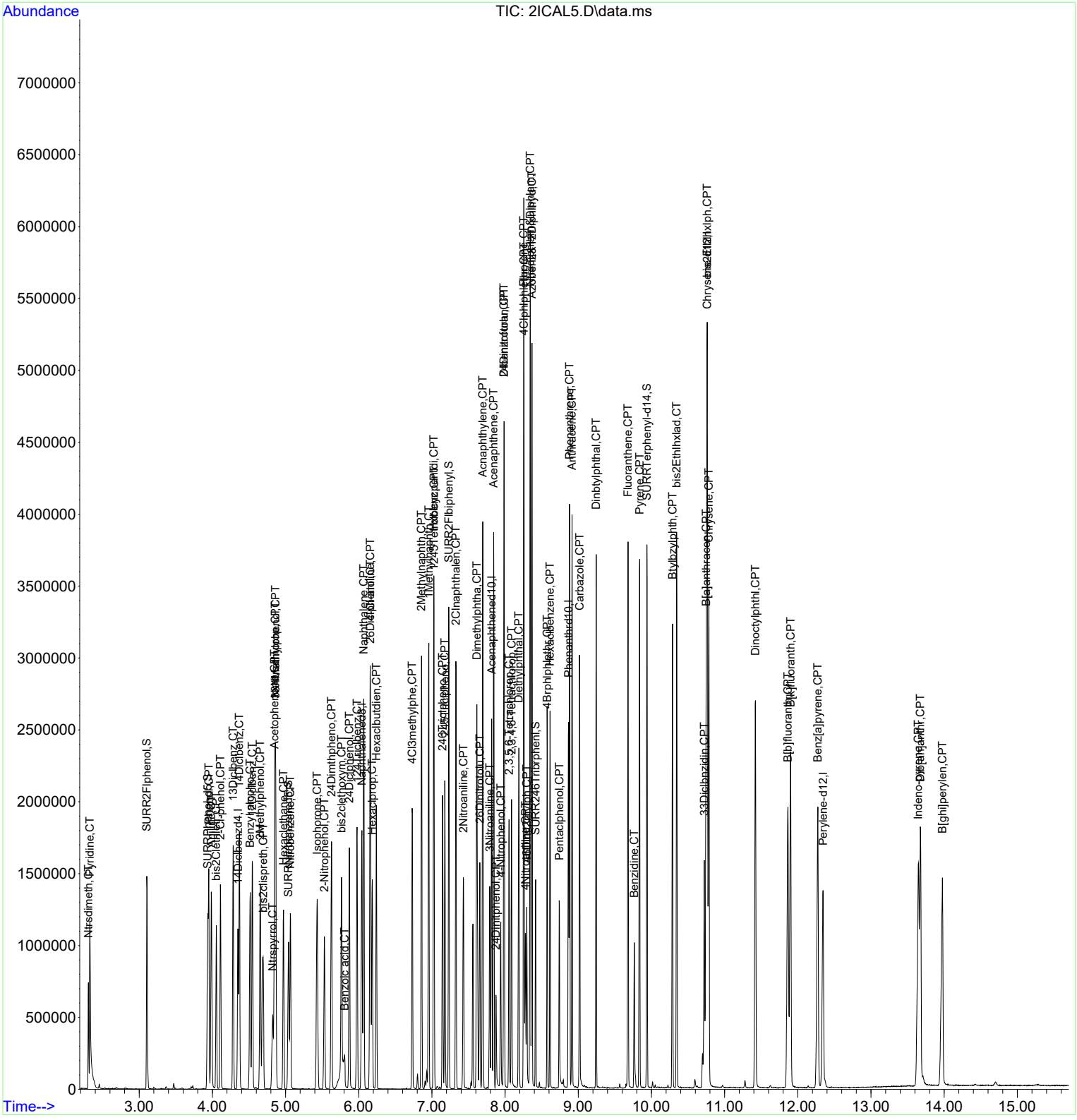
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.029 | 216 | 315112 | 30.6664 ug/mL | 98 |
| 42) 246Triclpheno | 7.145 | 196 | 225495 | 30.6042 ug/mL | 95 |
| 43) 245Triclpheno | 7.177 | 196 | 242357 | 30.5990 ug/mL | 95 |
| 45) 2Clnaphthalen | 7.330 | 162 | 710473 | 31.1374 ug/mL | 99 |
| 46) 2Nitroaniline | 7.429 | 65 | 224740 | 30.1143 ug/mL | 99 |
| 47) Acnaphthylene | 7.694 | 152 | 1120529 | 31.3782 ug/mL | 99 |
| 48) Dimethylphtha | 7.614 | 163 | 831837 | 31.2199 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.657 | 165 | 193714 | 30.7661 ug/mL | 96 |
| 50) Acenaphthene | 7.844 | 154 | 665251 | 30.9194 ug/mL | 99 |
| 51) 3Nitroaniline | 7.793 | 138 | 209720 | 30.3116 ug/mL | 99 |
| 52) 24Dinitphenol | 7.875 | 184 | 79222 | 26.9273 ug/mL | 90 |
| 53) Dibenzofuran | 7.986 | 168 | 955030 | 31.7672 ug/mL | 99 |
| 54) 24Dinitrotolu | 7.986 | 165 | 256210 | 30.6446 ug/mL | 96 |
| 55) 4-Nitrophenol | 7.941 | 65 | 141656 | 30.2192 ug/mL | 96 |
| 56) 2,3,5,6-Tetrachlorop | 8.055 | 232 | 178227 | 29.8167 ug/mL | 99 |
| 57) 2,3,4,6-Tetrachlorop | 8.089 | 232 | 184814 | 30.4243 ug/mL | 95 |
| 58) Fluorene | 8.256 | 166 | 727317 | 31.9740 ug/mL | 98 |
| 59) 4Clphlphlethr | 8.259 | 204 | 342020 | 31.8393 ug/mL | 97 |
| 60) Diethylphthal | 8.188 | 149 | 833726 | 31.0948 ug/mL | 99 |
| 61) 4Nitroaniline | 8.279 | 138 | 192392 | 31.8515 ug/mL | 99 |
| 64) 46Dinit2mylph | 8.296 | 198 | 128329 | 30.2969 ug/mL | 98 |
| 65) Ntrsdiphlam&Diphlam | 8.344 | 169 | 1032907 | 64.2772 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.367 | 182 | 368593 | 63.2660 ug/mL | 97 |
| 67) 4Brphlphlethr | 8.577 | 248 | 192398 | 31.1288 ug/mL | 93 |
| 68) Hexaclbenzene | 8.614 | 284 | 212711 | 30.8163 ug/mL | 95 |
| 69) Pentaclphenol | 8.742 | 266 | 97119 | 27.7050 ug/mL | 97 |
| 70) Phenanthrene | 8.881 | 178 | 975294 | 32.0404 ug/mL | 99 |
| 71) Anthracene | 8.915 | 178 | 1007071 | 32.0500 ug/mL | 98 |
| 72) Carbazole | 9.018 | 167 | 841507 | 31.2523 ug/mL | 100 |
| 73) Dinbtylphthal | 9.245 | 149 | 1230461 | 32.3305 ug/mL | 100 |
| 74) Fluoranthene | 9.680 | 202 | 1053983 | 32.1312 ug/mL | 98 |
| 76) Benzidine | 9.765 | 184 | 275436 | 27.2684 ug/mL | 98 |
| 77) Pyrene | 9.839 | 202 | 1098692 | 30.3757 ug/mL | 100 |
| 79) Btylbzylphth | 10.288 | 149 | 575323 | 29.8112 ug/mL | 99 |
| 80) bis2Ethlhxlad | 10.345 | 129 | 523388 | 29.9332 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.723 | 252 | 285346 | 28.1951 ug/mL | 100 |
| 82) B[a]anthracen | 10.748 | 228 | 1056260 | 30.1791 ug/mL | 98 |
| 83) Chrysene | 10.785 | 228 | 991065 | 30.4458 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.762 | 149 | 837290 | 30.3908 ug/mL | 99 |
| 85) Dinoctylphthl | 11.422 | 149 | 1440995 | 30.2198 ug/mL | 100 |
| 87) B[b]fluoranth | 11.865 | 252 | 1050288 | 31.2632 ug/mL | 99 |
| 88) B[k]fluoranth | 11.902 | 252 | 1023437 | 31.2222 ug/mL | 99 |
| 89) Benz[a]pyrene | 12.274 | 252 | 968187 | 30.9497 ug/mL | 99 |
| 90) Indeno-pyrene | 13.646 | 276 | 1112594 | 31.9857 ug/mL | 98 |
| 91) Dib[ah]anthr | 13.675 | 278 | 923717 | 32.2763 ug/mL | 99 |
| 92) B[ghi]perylen | 13.976 | 276 | 870525 | 32.2685 ug/mL | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL5.D Vial: 6
Acq On : 9 Apr 2025 14:51 Operator: JJY
Sample : ICAL 30 ug/mL SVMS10295 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:39:17 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:39:02 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL4.D Vial: 7
Acq On : 9 Apr 2025 15:14 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:40:55 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:40:41 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.349 | 152 | 183436 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.040 | 136 | 879740 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.816 | 164 | 482811 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.864 | 188 | 711747 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.760 | 240 | 585519 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.342 | 264 | 610485 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.105 | 112 | 228163 | 50.50 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.50% | | | |
| 7) SURRPhenol-d5 | 3.932 | 99 | 269438 | 49.23 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 49.23% | | | |
| 22) SURRNitrbenzened5 | 5.037 | 82 | 244101 | 99.02 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 99.02% | | | |
| 44) SURR2Flbiphenyl | 7.230 | 172 | 586113 | 105.42 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 105.42% | | | |
| 62) SURR246Tribrphenl | 8.415 | 330 | 66997 | 50.41 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.41% | | | |
| 78) SURRTerphenyl-d14 | 9.938 | 244 | 597481 | 104.11 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 104.11% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.303 | 74 | 146088 | 19.9804 | ug/mL | 100 |
| 3) Pyridine | 2.326 | 79 | 253772 | 19.7096 | ug/mL | 100 |
| 5) Aniline | 3.986 | 93 | 348571 | 20.0705 | ug/mL | 100 |
| 6) bis2Clethletr | 4.051 | 93 | 225031 | 20.0624 | ug/mL | 100 |
| 8) Phenol | 3.946 | 94 | 276436 | 19.8437 | ug/mL | 100 |
| 9) 2-Cl-phenol | 4.108 | 128 | 250746 | 20.0823 | ug/mL | 100 |
| 10) 13Diclbenz | 4.284 | 146 | 271628 | 20.3095 | ug/mL | 100 |
| 11) 14Diclbenz | 4.369 | 146 | 273260 | 20.2330 | ug/mL | 100 |
| 12) 12Diclbenz | 4.545 | 146 | 261296 | 20.3945 | ug/mL | 100 |
| 13) Benzyl alcoho | 4.511 | 108 | 165534 | 20.0541 | ug/mL | 100 |
| 14) bis2clispreth | 4.685 | 45 | 422124 | 19.8983 | ug/mL | 100 |
| 15) 2Methylphenol | 4.650 | 107 | 195575 | 20.2479 | ug/mL | 100 |
| 16) Ntrspyrrol | 4.818 | 100 | 123365 | 19.9457 | ug/mL | 100 |
| 17) Acetophenone | 4.846 | 105 | 348680 | 20.1698 | ug/mL | 100 |
| 18) Hexaclethane | 4.971 | 117 | 104150 | 19.6013 | ug/mL | 100 |
| 19) N-Ntrsdinprop | 4.858 | 70 | 168871 | 20.1641 | ug/mL | 100 |
| 20) 3&4Methylphenol | 4.858 | 107 | 253757 | 20.3990 | ug/mL | 100 |
| 23) Nitrobenzene | 5.062 | 77 | 233309 | 19.8077 | ug/mL | 100 |
| 24) Isophorone | 5.426 | 82 | 500947 | 20.0303 | ug/mL | 100 |
| 25) 2-Nitrophenol | 5.528 | 139 | 156245 | 19.8719 | ug/mL | 100 |
| 26) 24Dimthpheno | 5.625 | 122 | 239663 | 20.2709 | ug/mL | 100 |
| 27) bis2clethoxym | 5.761 | 93 | 308547 | 20.1080 | ug/mL | 100 |
| 28) 24Diclphenol | 5.869 | 162 | 226609 | 20.0290 | ug/mL | 100 |
| 29) 124Triclbenz | 5.975 | 180 | 246999 | 20.0574 | ug/mL | 100 |
| 30) Benzoic acid | 5.781 | 122 | 127481 | 18.2521 | ug/mL | 100 |
| 31) Naphthalene | 6.068 | 128 | 811404 | 20.6184 | ug/mL | 100 |
| 32) 4-Cl-aniline | 6.154 | 127 | 326535 | 19.8363 | ug/mL | 100 |
| 33) 26Diclphenol | 6.159 | 162 | 221598 | 20.4399 | ug/mL | 100 |
| 34) Hexaclprop | 6.182 | 213 | 166585 | 20.1012 | ug/mL | 100 |
| 35) Hexaclbutdien | 6.239 | 225 | 145205 | 19.9960 | ug/mL | 100 |
| 36) 4Cl3methylphe | 6.728 | 107 | 232713 | 20.2195 | ug/mL | 100 |
| 37) 2Methylnaphth | 6.855 | 142 | 495208 | 20.6256 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.955 | 142 | 514278 | 20.7432 | ug/mL | 100 |
| 40) Hxclcycpentdi | 7.023 | 237 | 162596 | 20.6940 | ug/mL | 100 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL4.D Vial: 7
Acq On : 9 Apr 2025 15:14 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:40:55 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:40:41 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

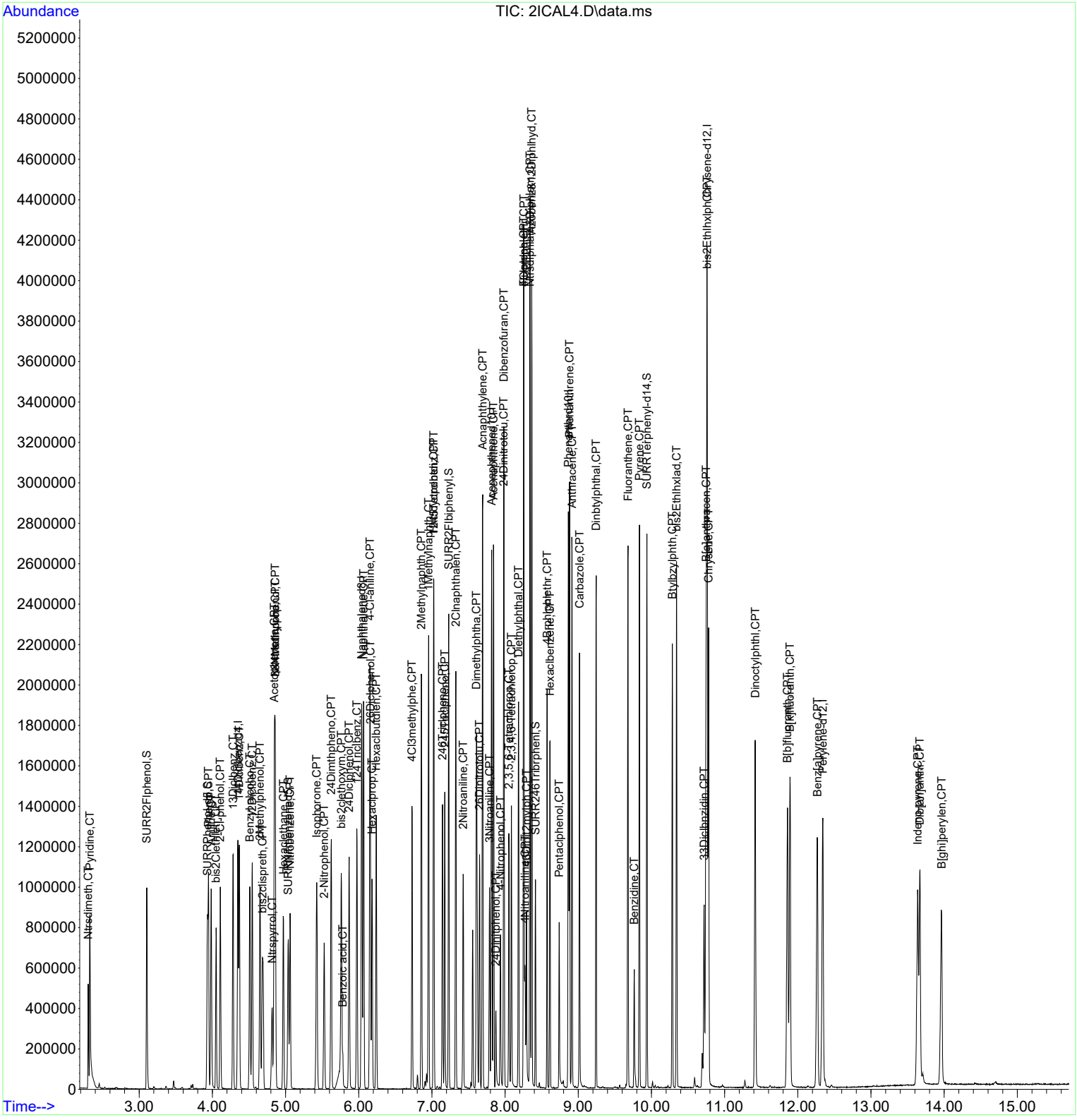
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.026 | 216 | 226214 | 21.0060 | ug/mL | 100 |
| 42) 246Triclpheno | 7.145 | 196 | 154931 | 20.0774 | ug/mL | 100 |
| 43) 245Triclpheno | 7.176 | 196 | 166711 | 20.0986 | ug/mL | 100 |
| 45) 2Clnaphthalen | 7.327 | 162 | 499115 | 20.7640 | ug/mL | 100 |
| 46) 2Nitroaniline | 7.426 | 65 | 153435 | 19.7377 | ug/mL | 100 |
| 47) Acnaphthylene | 7.694 | 152 | 799954 | 21.2080 | ug/mL | 100 |
| 48) Dimethylphtha | 7.608 | 163 | 588560 | 20.9492 | ug/mL | 100 |
| 49) 26Dinitrotolu | 7.651 | 165 | 135034 | 20.4411 | ug/mL | 100 |
| 50) Acenaphthene | 7.841 | 154 | 473380 | 20.9350 | ug/mL | 100 |
| 51) 3Nitroaniline | 7.787 | 138 | 142181 | 19.6852 | ug/mL | 100 |
| 52) 24Dinitphenol | 7.875 | 184 | 49519 | 16.7508 | ug/mL | 100 |
| 53) Dibenzofuran | 7.983 | 168 | 682619 | 21.4056 | ug/mL | 100 |
| 54) 24Dinitrotolu | 7.981 | 165 | 181672 | 20.7385 | ug/mL | 100 |
| 55) 4-Nitrophenol | 7.938 | 65 | 98424 | 20.1337 | ug/mL | 100 |
| 56) 2,3,5,6-Tetrachlorop | 8.052 | 232 | 121732 | 19.6158 | ug/mL | 100 |
| 57) 2,3,4,6-Tetrachlorop | 8.086 | 232 | 128124 | 20.1792 | ug/mL | 100 |
| 58) Fluorene | 8.253 | 166 | 527261 | 21.8025 | ug/mL | 100 |
| 59) 4Clphlphlethr | 8.256 | 204 | 247088 | 21.6675 | ug/mL | 100 |
| 60) Diethylphthal | 8.185 | 149 | 582956 | 20.6481 | ug/mL | 100 |
| 61) 4Nitroaniline | 8.273 | 138 | 122980 | 19.1763 | ug/mL | 100 |
| 64) 46Dinit2mylph | 8.293 | 198 | 84199 | 18.7704 | ug/mL | 100 |
| 65) Ntrsdiphlam&Diphlam | 8.341 | 169 | 744472 | 42.8714 | ug/mL | 100 |
| 66) Azobenz&12Diphlhyd | 8.364 | 182 | 264772 | 42.2872 | ug/mL | 100 |
| 67) 4Brphlphlethr | 8.574 | 248 | 135100 | 20.4516 | ug/mL | 100 |
| 68) Hexaclbenzene | 8.614 | 284 | 148405 | 20.1855 | ug/mL | 100 |
| 69) Pentaclphenol | 8.739 | 266 | 60663 | 16.8236 | ug/mL | 100 |
| 70) Phenanthrene | 8.881 | 178 | 700268 | 21.3115 | ug/mL | 100 |
| 71) Anthracene | 8.915 | 178 | 715591 | 21.0948 | ug/mL | 100 |
| 72) Carbazole | 9.018 | 167 | 577526 | 20.0409 | ug/mL | 100 |
| 73) Dinbtylphthal | 9.245 | 149 | 871347 | 21.1425 | ug/mL | 100 |
| 74) Fluoranthene | 9.680 | 202 | 743132 | 20.9661 | ug/mL | 100 |
| 76) Benzidine | 9.765 | 184 | 155530 | 15.6920 | ug/mL | 100 |
| 77) Pyrene | 9.836 | 202 | 767349 | 20.8772 | ug/mL | 100 |
| 79) Btylbzylphth | 10.285 | 149 | 386628 | 19.8386 | ug/mL | 100 |
| 80) bis2Ethlhxlad | 10.345 | 129 | 364725 | 20.6280 | ug/mL | 100 |
| 81) 33Diclbnzidin | 10.720 | 252 | 169451 | 16.8843 | ug/mL | 100 |
| 82) B[a]anthracen | 10.748 | 228 | 713102 | 20.0938 | ug/mL | 100 |
| 83) Chrysene | 10.782 | 228 | 658247 | 19.8841 | ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.762 | 149 | 560017 | 19.9998 | ug/mL | 100 |
| 85) Dinoctylphthl | 11.419 | 149 | 936912 | 19.3690 | ug/mL | 100 |
| 87) B[b]fluoranth | 11.859 | 252 | 682258 | 20.6737 | ug/mL | 100 |
| 88) B[k]fluoranth | 11.893 | 252 | 664201 | 20.6367 | ug/mL | 100 |
| 89) Benz[a]pyrene | 12.268 | 252 | 620343 | 20.2567 | ug/mL | 100 |
| 90) Indeno-pyrene | 13.638 | 276 | 627898 | 18.2317 | ug/mL | 100 |
| 91) Dib[ah]anthr | 13.669 | 278 | 522508 | 18.3818 | ug/mL | 100 |
| 92) B[ghi]perylen | 13.965 | 276 | 483141 | 18.0326 | ug/mL | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL4.D Vial: 7
Acq On : 9 Apr 2025 15:14 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:40:55 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:40:41 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL3.D Vial: 8
Acq On : 9 Apr 2025 15:37 Operator: JJY
Sample : ICAL 10 ug/mL SVMS10293 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:55:11 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:42:12 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.349 | 152 | 178199 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.040 | 136 | 839853 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.816 | 164 | 463510 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.864 | 188 | 677284 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.754 | 240 | 601593 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.336 | 264 | 629627 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.104 | 112 | 103783 | 23.59 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 23.59% | | | |
| 7) SURRPhenol-d5 | 3.929 | 99 | 126242 | 23.84 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 23.84% | | | |
| 22) SURRNitrbenzened5 | 5.031 | 82 | 111453 | 47.47 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 47.47% | | | |
| 44) SURR2Flbiphenyl | 7.230 | 172 | 274971 | 50.83 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.83% | | | |
| 62) SURR246Tribrphenl | 8.412 | 330 | 30650 | 23.97 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 23.97% | | | |
| 78) SURRTerphenyl-d14 | 9.935 | 244 | 284245 | 47.72 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 47.72% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.306 | 74 | 65329 | 9.1999 | ug/mL | 97 |
| 3) Pyridine | 2.329 | 79 | 117141 | 9.3994 | ug/mL | 99 |
| 5) Aniline | 3.982 | 93 | 158861 | 9.4076 | ug/mL | 99 |
| 6) bis2Clethletr | 4.048 | 93 | 105731 | 9.6958 | ug/mL | 98 |
| 8) Phenol | 3.943 | 94 | 129687 | 9.6018 | ug/mL | 96 |
| 9) 2-Cl-phenol | 4.108 | 128 | 114609 | 9.4391 | ug/mL | 100 |
| 10) 13Diclbenz | 4.281 | 146 | 125783 | 9.6438 | ug/mL | 97 |
| 11) 14Diclbenz | 4.366 | 146 | 129408 | 9.8347 | ug/mL | 99 |
| 12) 12Diclbenz | 4.545 | 146 | 120425 | 9.6281 | ug/mL | 98 |
| 13) Benzyl alcoho | 4.508 | 108 | 74083 | 9.2325 | ug/mL | 97 |
| 14) bis2clispreth | 4.681 | 45 | 196671 | 9.5554 | ug/mL | 98 |
| 15) 2Methylphenol | 4.650 | 107 | 89827 | 9.5435 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.807 | 100 | 55800 | 9.2932 | ug/mL | 94 |
| 17) Acetophenone | 4.841 | 105 | 161781 | 9.6130 | ug/mL | 99 |
| 18) Hexaclethane | 4.968 | 117 | 47254 | 9.2005 | ug/mL | 95 |
| 19) N-Ntrsdinprop | 4.849 | 70 | 75973 | 9.3191 | ug/mL | 98 |
| 20) 3&4Methylphenol | 4.852 | 107 | 115800 | 9.5349 | ug/mL | 97 |
| 23) Nitrobenzene | 5.057 | 77 | 106838 | 9.5241 | ug/mL | 96 |
| 24) Isophorone | 5.417 | 82 | 225577 | 9.4444 | ug/mL | 100 |
| 25) 2-Nitrophenol | 5.525 | 139 | 72155 | 9.6282 | ug/mL | 95 |
| 26) 24Dimthpheno | 5.619 | 122 | 109156 | 9.6384 | ug/mL | 99 |
| 27) bis2clethoxym | 5.758 | 93 | 140996 | 9.6121 | ug/mL | 95 |
| 28) 24Diclphenol | 5.866 | 162 | 104632 | 9.6837 | ug/mL | 97 |
| 29) 124Triclbenz | 5.974 | 180 | 115334 | 9.8034 | ug/mL | 99 |
| 30) Benzoic acid | 5.736 | 122 | 45316 | 6.9481 | ug/mL | 88 |
| 31) Naphthalene | 6.065 | 128 | 386974 | 10.2213 | ug/mL | 100 |
| 32) 4-Cl-aniline | 6.151 | 127 | 144917 | 9.2404 | ug/mL | 99 |
| 33) 26Diclphenol | 6.156 | 162 | 102519 | 9.8512 | ug/mL | 99 |
| 34) Hexaclprop | 6.182 | 213 | 73574 | 9.2878 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.239 | 225 | 67915 | 9.7972 | ug/mL | 96 |
| 36) 4Cl3methylphe | 6.727 | 107 | 105054 | 9.5351 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.855 | 142 | 233069 | 10.0895 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.955 | 142 | 239464 | 10.0243 | ug/mL | 99 |
| 40) Hxclcycpentdi | 7.023 | 237 | 69048 | 9.0751 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL3.D Vial: 8
Acq On : 9 Apr 2025 15:37 Operator: JJY
Sample : ICAL 10 ug/mL SVMS10293 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:55:11 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:42:12 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

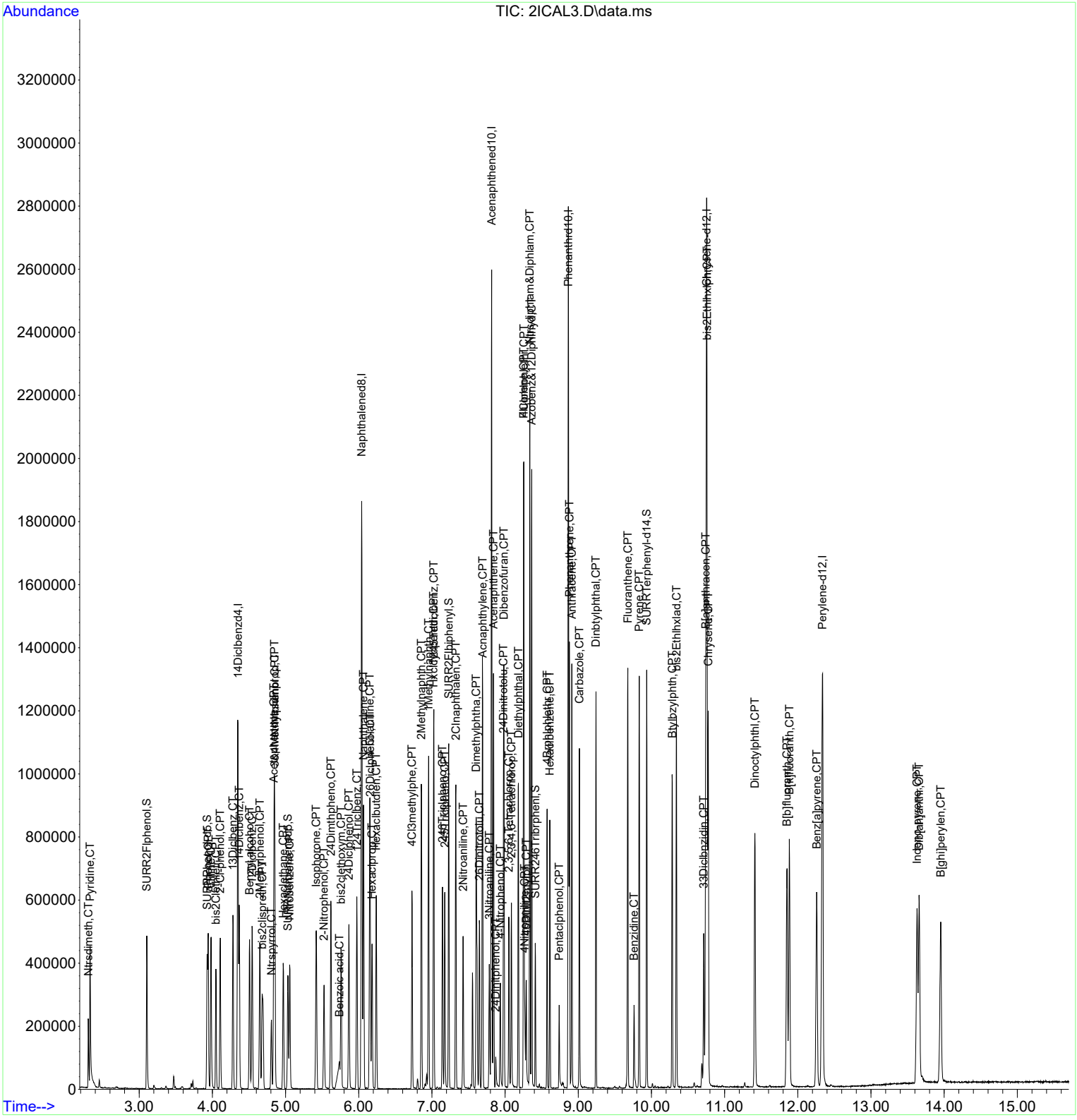
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.026 | 216 | 102802 | 9.8201 ug/mL | 99 |
| 42) 246Triclpheno | 7.145 | 196 | 69141 | 9.3240 ug/mL | 98 |
| 43) 245Triclpheno | 7.176 | 196 | 76202 | 9.5577 ug/mL | 97 |
| 45) 2Clnaphthalen | 7.327 | 162 | 231408 | 9.9330 ug/mL | 96 |
| 46) 2Nitroaniline | 7.426 | 65 | 68439 | 9.2007 ug/mL | 98 |
| 47) Acnaphthylene | 7.693 | 152 | 378543 | 10.2982 ug/mL | 98 |
| 48) Dimethylphtha | 7.605 | 163 | 270908 | 9.9265 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.651 | 165 | 62107 | 9.7394 ug/mL | 96 |
| 50) Acenaphthene | 7.841 | 154 | 221660 | 10.0930 ug/mL | 98 |
| 51) 3Nitroaniline | 7.784 | 138 | 61583 | 8.9164 ug/mL | 93 |
| 52) 24Dinitphenol | 7.872 | 184 | 12193 | 4.4782 ug/mL | 93 |
| 53) Dibenzofuran | 7.983 | 168 | 324923 | 10.4300 ug/mL | 97 |
| 54) 24Dinitrotolu | 7.978 | 165 | 83597 | 9.8493 ug/mL | 88 |
| 55) 4-Nitrophenol | 7.935 | 65 | 39643 | 8.4330 ug/mL | 90 |
| 56) 2,3,5,6-Tetrachlorop | 8.051 | 232 | 50623 | 8.5380 ug/mL | 97 |
| 57) 2,3,4,6-Tetrachlorop | 8.086 | 232 | 56634 | 9.2704 ug/mL | 96 |
| 58) Fluorene | 8.253 | 166 | 249332 | 10.5027 ug/mL | 100 |
| 59) 4Clphlphlethr | 8.256 | 204 | 117345 | 10.4998 ug/mL | 97 |
| 60) Diethylphthal | 8.182 | 149 | 268382 | 9.8223 ug/mL | 99 |
| 61) 4Nitroaniline | 8.267 | 138 | 52823 | 8.6689 ug/mL | 92 |
| 64) 46Dinit2mylph | 8.290 | 198 | 31929 | 7.5968 ug/mL | 99 |
| 65) Ntrsdiphlam&Diphlam | 8.338 | 169 | 353758 | 21.0308 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.364 | 182 | 123950 | 20.5104 ug/mL | 95 |
| 67) 4Brphlphlethr | 8.574 | 248 | 62782 | 9.9315 ug/mL | 95 |
| 68) Hexaclbenzene | 8.611 | 284 | 69510 | 9.9126 ug/mL | 95 |
| 69) Pentaclphenol | 8.739 | 266 | 19616 | 5.9533 ug/mL | 99 |
| 70) Phenanthrene | 8.878 | 178 | 330684 | 10.4053 ug/mL | 99 |
| 71) Anthracene | 8.912 | 178 | 339798 | 10.3844 ug/mL | 99 |
| 72) Carbazole | 9.015 | 167 | 283197 | 10.3221 ug/mL | 98 |
| 73) Dinbtylphthal | 9.242 | 149 | 406923 | 10.2300 ug/mL | 99 |
| 74) Fluoranthene | 9.677 | 202 | 356406 | 10.4409 ug/mL | 99 |
| 76) Benzidine | 9.762 | 184 | 70387 | 7.3052 ug/mL | 98 |
| 77) Pyrene | 9.833 | 202 | 372283 | 9.7511 ug/mL | 98 |
| 79) Btylbzylphth | 10.285 | 149 | 180959 | 9.0555 ug/mL | 92 |
| 80) bis2Ethlhxlad | 10.342 | 129 | 167360 | 9.1408 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.714 | 252 | 83869 | 8.4631 ug/mL | 98 |
| 82) B[a]anthracen | 10.742 | 228 | 347641 | 9.5229 ug/mL | 99 |
| 83) Chrysene | 10.776 | 228 | 327450 | 9.6412 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.759 | 149 | 270786 | 9.4122 ug/mL | 98 |
| 85) Dinoctylphthl | 11.413 | 149 | 440119 | 8.9260 ug/mL | 99 |
| 87) B[b]fluoranth | 11.850 | 252 | 319036 | 9.2952 ug/mL | 99 |
| 88) B[k]fluoranth | 11.885 | 252 | 335321 | 10.0219 ug/mL | 99 |
| 89) Benz[a]pyrene | 12.260 | 252 | 302269 | 9.5396 ug/mL | 98 |
| 90) Indeno-pyrene | 13.629 | 276 | 343721 | 9.8956 ug/mL | 99 |
| 91) Dib[ah]anthr | 13.658 | 278 | 287382 | 10.0051 ug/mL | 97 |
| 92) B[ghi]perylen | 13.953 | 276 | 269194 | 9.9875 ug/mL | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL3.D Vial: 8
Acq On : 9 Apr 2025 15:37 Operator: JJY
Sample : ICAL 10 ug/mL SVMS10293 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 15:55:11 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:42:12 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL2.D Vial: 9
Acq On : 9 Apr 2025 16:00 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:17:53 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:56:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.346 | 152 | 188449 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.037 | 136 | 884272 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.813 | 164 | 490449 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.864 | 188 | 716823 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.754 | 240 | 631494 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.339 | 264 | 651080 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.102 | 112 | 56876 | 12.36 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.36% | | | |
| 7) SURRPhenol-d5 | 3.926 | 99 | 67308 | 12.13 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.13% | | | |
| 22) SURRNitrbenzened5 | 5.028 | 82 | 59096 | 24.15 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 24.15% | | | |
| 44) SURR2Flbiphenyl | 7.227 | 172 | 151641 | 26.40 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 26.40% | | | |
| 62) SURR246Tribrphenl | 8.412 | 330 | 15388 | 11.47 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 11.47% | | | |
| 78) SURRTerphenyl-d14 | 9.935 | 244 | 152009 | 24.53 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 24.53% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.303 | 74 | 35933 | 4.8628 | ug/mL | 90 |
| 3) Pyridine | 2.329 | 79 | 64816 | 4.9778 | ug/mL | 99 |
| 5) Aniline | 3.980 | 93 | 85124 | 4.8239 | ug/mL | 100 |
| 6) bis2Clethletr | 4.048 | 93 | 57521 | 5.0185 | ug/mL | 98 |
| 8) Phenol | 3.940 | 94 | 69106 | 4.8770 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.105 | 128 | 62720 | 4.9400 | ug/mL | 97 |
| 10) 13Diclbenz | 4.281 | 146 | 68696 | 5.0162 | ug/mL | 99 |
| 11) 14Diclbenz | 4.366 | 146 | 70520 | 5.0847 | ug/mL | 94 |
| 12) 12Diclbenz | 4.542 | 146 | 66080 | 5.0332 | ug/mL | 96 |
| 13) Benzyl alcoho | 4.505 | 108 | 39386 | 4.7138 | ug/mL | 95 |
| 14) bis2clispreth | 4.684 | 45 | 106650 | 4.9438 | ug/mL | 99 |
| 15) 2Methylphenol | 4.647 | 107 | 48028 | 4.8696 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.801 | 100 | 29853 | 4.7689 | ug/mL | 99 |
| 17) Acetophenone | 4.838 | 105 | 86703 | 4.9097 | ug/mL | 98 |
| 18) Hexaclethane | 4.969 | 117 | 26313 | 4.9233 | ug/mL | 95 |
| 19) N-Ntrsdinprop | 4.846 | 70 | 42293 | 4.9733 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.846 | 107 | 63653 | 5.0026 | ug/mL | 88 |
| 23) Nitrobenzene | 5.054 | 77 | 57736 | 4.9353 | ug/mL | 99 |
| 24) Isophorone | 5.415 | 82 | 121717 | 4.8944 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.523 | 139 | 39030 | 4.9835 | ug/mL | 97 |
| 26) 24Dimthpheno | 5.616 | 122 | 60207 | 5.0860 | ug/mL | 96 |
| 27) bis2clethoxym | 5.756 | 93 | 77500 | 5.0572 | ug/mL | 97 |
| 28) 24Diclphenol | 5.864 | 162 | 55837 | 4.9394 | ug/mL | 98 |
| 29) 124Triclbenz | 5.972 | 180 | 63445 | 5.1422 | ug/mL | 99 |
| 30) Benzoic acid | 5.710 | 122 | 17318 | 2.6858 | ug/mL | 81 |
| 31) Naphthalene | 6.062 | 128 | 210412 | 5.2553 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.148 | 127 | 77090 | 4.7406 | ug/mL | 95 |
| 33) 26Diclphenol | 6.153 | 162 | 55616 | 5.0909 | ug/mL | 98 |
| 34) Hexaclprop | 6.179 | 213 | 39490 | 4.8031 | ug/mL | 98 |
| 35) Hexaclbutdien | 6.239 | 225 | 36330 | 4.9978 | ug/mL | 100 |
| 36) 4Cl3methylphe | 6.725 | 107 | 54981 | 4.7841 | ug/mL | 94 |
| 37) 2Methylnaphth | 6.855 | 142 | 126462 | 5.1902 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.952 | 142 | 132816 | 5.2780 | ug/mL | 97 |
| 40) Hxclcycpentdi | 7.020 | 237 | 37584 | 4.7564 | ug/mL | 100 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL2.D Vial: 9
Acq On : 9 Apr 2025 16:00 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:17:53 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:56:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

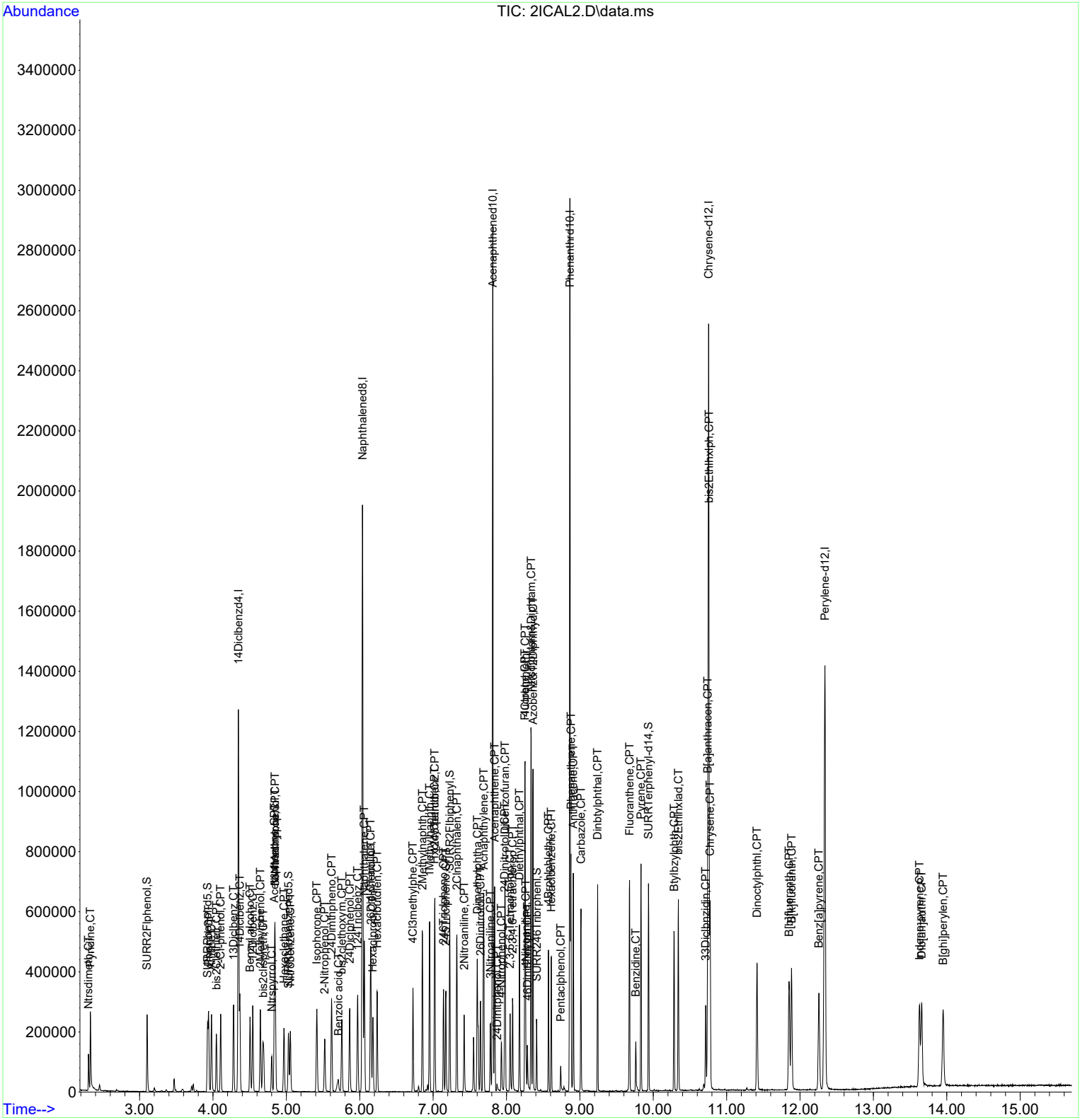
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.023 | 216 | 57150 | 5.1780 ug/mL | 98 |
| 42) 246Triclpheno | 7.142 | 196 | 36272 | 4.6861 ug/mL | 99 |
| 43) 245Triclpheno | 7.173 | 196 | 40082 | 4.7936 ug/mL | 98 |
| 45) 2Clnaphthalen | 7.324 | 162 | 126311 | 5.1309 ug/mL | 98 |
| 46) 2Nitroaniline | 7.424 | 65 | 35067 | 4.5277 ug/mL | 96 |
| 47) Acnaphthylene | 7.691 | 152 | 207243 | 5.2967 ug/mL | 99 |
| 48) Dimethylphtha | 7.603 | 163 | 148642 | 5.1549 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.645 | 165 | 32332 | 4.8168 ug/mL | 92 |
| 50) Acenaphthene | 7.838 | 154 | 119075 | 5.1146 ug/mL | 99 |
| 51) 3Nitroaniline | 7.782 | 138 | 32860 | 4.5960 ug/mL | 91 |
| 52) 24Dinitphenol | 7.872 | 184 | 3815 | 1.4886 ug/mL | 86 |
| 53) Dibenzofuran | 7.980 | 168 | 178235 | 5.3609 ug/mL | 95 |
| 54) 24Dinitrotolu | 7.975 | 165 | 42880 | 4.7890 ug/mL | 92 |
| 55) 4-Nitrophenol | 7.929 | 65 | 20364 | 4.2264 ug/mL | 93 |
| 56) 2,3,5,6-Tetrachlorop | 8.049 | 232 | 24982 | 4.1020 ug/mL | 98 |
| 57) 2,3,4,6-Tetrachlorop | 8.083 | 232 | 29743 | 4.6693 ug/mL | 95 |
| 58) Fluorene | 8.250 | 166 | 136937 | 5.3971 ug/mL | 98 |
| 59) 4Clphlphlethr | 8.253 | 204 | 64490 | 5.3995 ug/mL | 96 |
| 60) Diethylphthal | 8.177 | 149 | 146189 | 5.0744 ug/mL | 99 |
| 61) 4Nitroaniline | 8.262 | 138 | 27298 | 4.3497 ug/mL | 96 |
| 64) 46Dinit2mylph | 8.284 | 198 | 13556 | 3.2013 ug/mL | 97 |
| 65) Ntrsdiphlam&Diphlam | 8.336 | 169 | 197315 | 10.9702 ug/mL | 100 |
| 66) Azobenz&12Diphlhyd | 8.361 | 182 | 69265 | 10.7743 ug/mL# | 85 |
| 67) 4Brphlphlethr | 8.571 | 248 | 34080 | 5.1008 ug/mL | 93 |
| 68) Hexaclbenzene | 8.611 | 284 | 38686 | 5.2217 ug/mL | 98 |
| 69) Pentaclphenol | 8.739 | 266 | 6806 | 2.1235 ug/mL | 97 |
| 70) Phenanthrene | 8.878 | 178 | 182690 | 5.3878 ug/mL | 99 |
| 71) Anthracene | 8.910 | 178 | 184120 | 5.2759 ug/mL | 99 |
| 72) Carbazole | 9.015 | 167 | 162620 | 5.5645 ug/mL | 97 |
| 73) Dinbtylphthal | 9.242 | 149 | 218155 | 5.1581 ug/mL | 98 |
| 74) Fluoranthene | 9.677 | 202 | 191736 | 5.2607 ug/mL | 98 |
| 76) Benzidine | 9.762 | 184 | 43533 | 4.5494 ug/mL | 96 |
| 77) Pyrene | 9.833 | 202 | 201227 | 5.0463 ug/mL | 99 |
| 79) Btylbzylphth | 10.285 | 149 | 94301 | 4.5821 ug/mL | 90 |
| 80) bis2Ethlhxlad | 10.342 | 129 | 88638 | 4.6926 ug/mL | 98 |
| 81) 33Diclbnzidin | 10.714 | 252 | 48411 | 4.8014 ug/mL | 99 |
| 82) B[a]anthracen | 10.742 | 228 | 187193 | 4.9320 ug/mL | 99 |
| 83) Chrysene | 10.774 | 228 | 177688 | 5.0200 ug/mL | 98 |
| 84) bis2Ethlhxlph | 10.759 | 149 | 141630 | 4.7456 ug/mL | 99 |
| 85) Dinoctylphthl | 11.413 | 149 | 224543 | 4.4335 ug/mL | 99 |
| 87) B[b]fluoranth | 11.850 | 252 | 167212 | 4.7786 ug/mL | 96 |
| 88) B[k]fluoranth | 11.885 | 252 | 176149 | 5.0890 ug/mL | 100 |
| 89) Benz[a]pyrene | 12.257 | 252 | 155068 | 4.7767 ug/mL | 95 |
| 90) Indeno-pyrene | 13.629 | 276 | 172297 | 4.8070 ug/mL | 99 |
| 91) Dib[ah]anthr | 13.658 | 278 | 141979 | 4.7796 ug/mL | 98 |
| 92) B[ghi]perylen | 13.950 | 276 | 135770 | 4.8725 ug/mL | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL2.D Vial: 9
Acq On : 9 Apr 2025 16:00 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:17:53 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 15:56:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL1.D Vial: 10
Acq On : 9 Apr 2025 16:23 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:41:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:19:30 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.346 | 152 | 165992 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.037 | 136 | 790847 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.813 | 164 | 440921 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.864 | 188 | 645904 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.754 | 240 | 564569 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.337 | 264 | 542193 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.102 | 112 | 9263 | 2.29 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.29% | | | |
| 7) SURRPhenol-d5 | 3.926 | 99 | 11112 | 2.28 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.28% | | | |
| 22) SURRNitrbenzened5 | 5.031 | 82 | 10141 | 4.66 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.66% | | | |
| 44) SURR2Flbiphenyl | 7.228 | 172 | 27764 | 5.33 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.33% | | | |
| 62) SURR246Tribrphenl | 8.410 | 330 | 2810 | 2.36 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.36% | | | |
| 78) SURRTerphenyl-d14 | 9.935 | 244 | 27020 | 4.89 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.89% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.312 | 74 | 6116 | 0.9440 | ug/mL | 83 |
| 3) Pyridine | 2.340 | 79 | 11624 | 1.0142 | ug/mL | 98 |
| 5) Aniline | 3.980 | 93 | 14534 | 0.9406 | ug/mL | 98 |
| 6) bis2Clethletr | 4.048 | 93 | 9961 | 0.9860 | ug/mL | 93 |
| 8) Phenol | 3.940 | 94 | 11580 | 0.9316 | ug/mL | 91 |
| 9) 2-Cl-phenol | 4.105 | 128 | 10630 | 0.9524 | ug/mL | 91 |
| 10) 13Diclbenz | 4.281 | 146 | 12096 | 1.0022 | ug/mL | 95 |
| 11) 14Diclbenz | 4.366 | 146 | 12983 | 1.0598 | ug/mL | 96 |
| 12) 12Diclbenz | 4.542 | 146 | 12220 | 1.0555 | ug/mL | 93 |
| 13) Benzyl alcoho | 4.505 | 108 | 6221 | 0.8534 | ug/mL | 89 |
| 14) bis2clispreth | 4.679 | 45 | 19814 | 1.0447 | ug/mL | 97 |
| 15) 2Methylphenol | 4.645 | 107 | 8184 | 0.9462 | ug/mL | 86 |
| 16) Ntrspyrrol | 4.801 | 100 | 4681 | 0.8555 | ug/mL | 84 |
| 17) Acetophenone | 4.838 | 105 | 15622 | 1.0073 | ug/mL | 98 |
| 18) Hexaclethane | 4.969 | 117 | 4746 | 1.0107 | ug/mL | 92 |
| 19) N-Ntrsdinprop | 4.844 | 70 | 7165 | 0.9574 | ug/mL | 93 |
| 20) 3&4Methylphenol | 4.844 | 107 | 10627 | 0.9481 | ug/mL# | 66 |
| 23) Nitrobenzene | 5.057 | 77 | 10243 | 0.9811 | ug/mL | 94 |
| 24) Isophorone | 5.415 | 82 | 20567 | 0.9280 | ug/mL | 96 |
| 25) 2-Nitrophenol | 5.523 | 139 | 6402 | 0.9145 | ug/mL | 90 |
| 26) 24Dimthpheno | 5.617 | 122 | 10695 | 1.0073 | ug/mL | 95 |
| 27) bis2clethoxym | 5.759 | 93 | 13279 | 0.9670 | ug/mL | 94 |
| 28) 24Diclphenol | 5.861 | 162 | 9093 | 0.9012 | ug/mL | 88 |
| 29) 124Triclbenz | 5.972 | 180 | 11334 | 1.0223 | ug/mL | 98 |
| 30) Benzoic acid | 5.685 | 122 | 675 | 0.1268 | ug/mL# | 73 |
| 31) Naphthalene | 6.063 | 128 | 38635 | 1.0698 | ug/mL | 98 |
| 32) 4-Cl-aniline | 6.145 | 127 | 13121 | 0.9101 | ug/mL | 97 |
| 33) 26Diclphenol | 6.154 | 162 | 9767 | 0.9966 | ug/mL | 97 |
| 34) Hexaclprop | 6.179 | 213 | 6195 | 0.8481 | ug/mL | 90 |
| 35) Hexaclbutdien | 6.239 | 225 | 6586 | 1.0131 | ug/mL | 95 |
| 36) 4Cl3methylphe | 6.728 | 107 | 9001 | 0.8821 | ug/mL | 92 |
| 37) 2Methylnaphth | 6.855 | 142 | 22731 | 1.0366 | ug/mL | 95 |
| 38) 1Methylnaphth | 6.952 | 142 | 23302 | 1.0259 | ug/mL | 99 |
| 40) Hxclcycpentdi | 7.023 | 237 | 5569 | 0.7904 | ug/mL | 96 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL1.D Vial: 10
Acq On : 9 Apr 2025 16:23 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:41:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:19:30 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

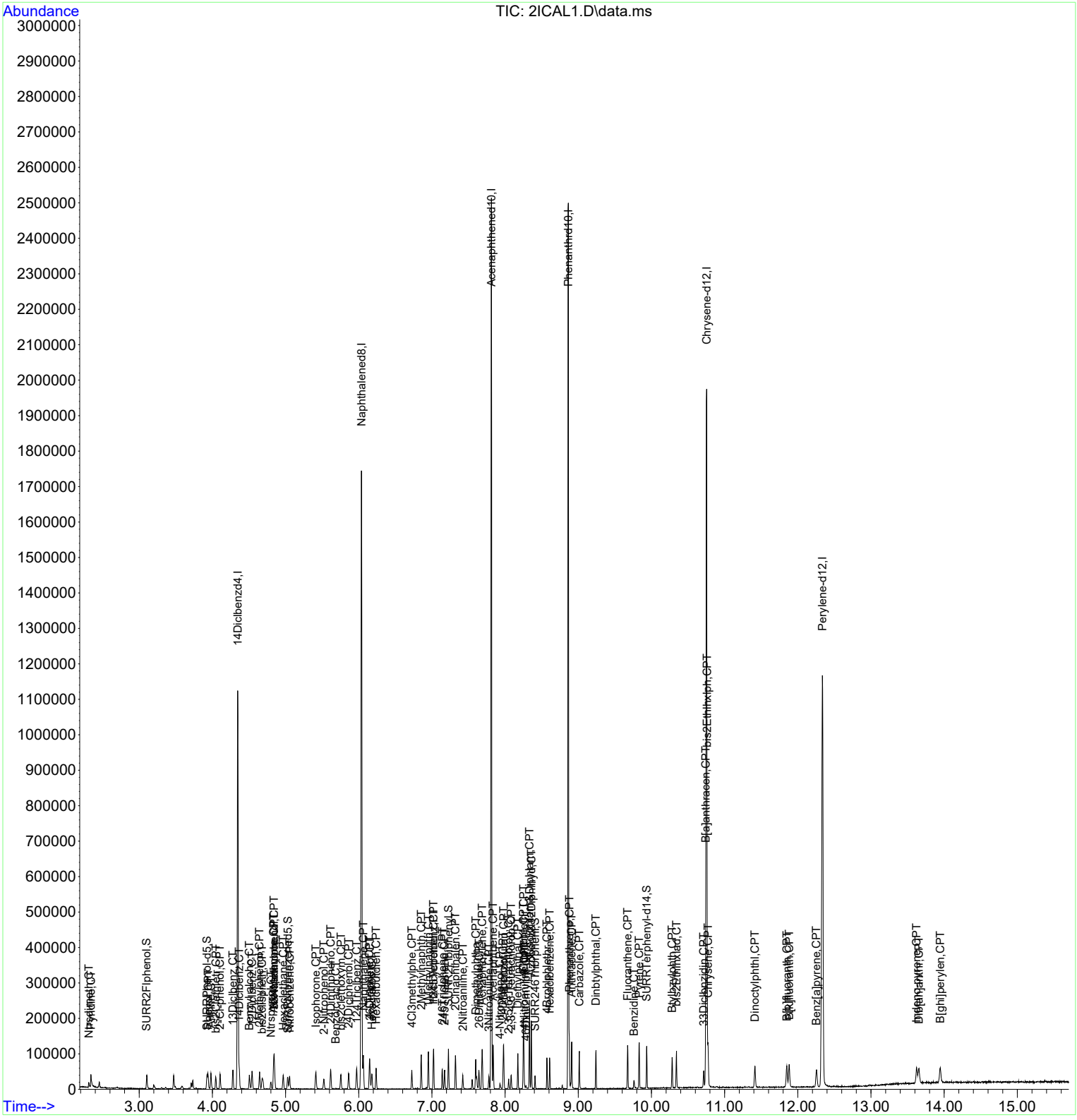
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.023 | 216 | 10448 | 1.0467 | ug/mL | 97 |
| 42) 246Triclpheno | 7.142 | 196 | 5893 | 0.8558 | ug/mL | 92 |
| 43) 245Triclpheno | 7.174 | 196 | 6518 | 0.8731 | ug/mL | 96 |
| 45) 2Clnaphthalen | 7.321 | 162 | 22687 | 1.0206 | ug/mL | 95 |
| 46) 2Nitroaniline | 7.424 | 65 | 5311 | 0.7750 | ug/mL | 96 |
| 47) Acnaphthylene | 7.688 | 152 | 36654 | 1.0318 | ug/mL | 97 |
| 48) Dimethylphtha | 7.600 | 163 | 26111 | 1.0021 | ug/mL | 99 |
| 49) 26Dinitrotolu | 7.645 | 165 | 5423 | 0.9042 | ug/mL | 96 |
| 50) Acenaphthene | 7.836 | 154 | 22394 | 1.0659 | ug/mL | 98 |
| 51) 3Nitroaniline | 7.779 | 138 | 5062 | 0.7983 | ug/mL | 96 |
| 52) 24Dinitphenol | 0.000 | | 0 | N.D. | | |
| 53) Dibenzofuran | 7.981 | 168 | 32888 | 1.0872 | ug/mL | 98 |
| 54) 24Dinitrotolu | 7.972 | 165 | 6239 | 0.7806 | ug/mL | 88 |
| 55) 4-Nitrophenol | 7.929 | 65 | 2440 | 0.5782 | ug/mL | 88 |
| 56) 2,3,5,6-Tetrachlorop | 8.049 | 232 | 2748 | 0.5174 | ug/mL | 86 |
| 57) 2,3,4,6-Tetrachlorop | 8.083 | 232 | 4088 | 0.7218 | ug/mL | 95 |
| 58) Fluorene | 8.251 | 166 | 25214 | 1.0910 | ug/mL | 97 |
| 59) 4Clphlphlethr | 8.253 | 204 | 11901 | 1.0938 | ug/mL | 99 |
| 60) Diethylphthal | 8.174 | 149 | 25781 | 0.9929 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.262 | 138 | 4210 | 0.7627 | ug/mL | 84 |
| 64) 46Dinit2mylph | 8.285 | 198 | 899 | 0.2506 | ug/mL# | 62 |
| 65) Ntrsdiphlam&Diphlam | 8.333 | 169 | 35515 | 2.1565 | ug/mL | 98 |
| 66) Azobenz&12Diphlhyd | 8.358 | 182 | 12726 | 2.1689 | ug/mL | 91 |
| 67) 4Brphlphlethr | 8.572 | 248 | 6209 | 1.0279 | ug/mL | 98 |
| 68) Hexaclbenzene | 8.609 | 284 | 7130 | 1.0602 | ug/mL | 95 |
| 69) Pentaclphenol | 0.000 | | 0 | N.D. | | |
| 70) Phenanthrene | 8.878 | 178 | 34586 | 1.1175 | ug/mL | 96 |
| 71) Anthracene | 8.910 | 178 | 33705 | 1.0621 | ug/mL | 97 |
| 72) Carbazole | 9.015 | 167 | 29866 | 1.1132 | ug/mL | 94 |
| 73) Dinbtylphthal | 9.242 | 149 | 37108 | 0.9686 | ug/mL | 99 |
| 74) Fluoranthene | 9.674 | 202 | 33844 | 1.0217 | ug/mL | 96 |
| 76) Benzidine | 9.762 | 184 | 7258 | 0.8613 | ug/mL | 95 |
| 77) Pyrene | 9.833 | 202 | 36790 | 1.0304 | ug/mL | 94 |
| 79) Btylbzylphth | 10.282 | 149 | 15255 | 0.8408 | ug/mL | 97 |
| 80) bis2Ethlhxlad | 10.342 | 129 | 13496 | 0.8075 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.714 | 252 | 8640 | 0.9649 | ug/mL | 96 |
| 82) B[a]anthracen | 10.742 | 228 | 34801 | 1.0279 | ug/mL | 98 |
| 83) Chrysene | 10.774 | 228 | 33150 | 1.0469 | ug/mL | 93 |
| 84) bis2Ethlhxlph | 10.760 | 149 | 22345 | 0.8446 | ug/mL | 99 |
| 85) Dinoctylphthl | 11.413 | 149 | 32227 | 0.7254 | ug/mL | 99 |
| 87) B[b]fluoranth | 11.851 | 252 | 27498 | 0.9507 | ug/mL | 96 |
| 88) B[k]fluoranth | 11.882 | 252 | 27968 | 0.9674 | ug/mL | 97 |
| 89) Benz[a]pyrene | 12.254 | 252 | 23892 | 0.8904 | ug/mL | 97 |
| 90) Indeno-pyrene | 13.624 | 276 | 26557 | 0.8955 | ug/mL | 97 |
| 91) Dib[ah]anthr | 13.655 | 278 | 19828 | 0.8075 | ug/mL | 91 |
| 92) B[ghi]perylen | 13.948 | 276 | 21583 | 0.9341 | ug/mL | 89 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL1.D Vial: 10
Acq On : 9 Apr 2025 16:23 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:41:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:19:30 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040925\2ICV1.D Vial: 11
Acq On : 9 Apr 2025 16:47 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:04:24 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 2 | CT | Ntrsdimeth | 20.000 | 21.853 | -9.3 | 101 | 0.00 |
| 3 | CT | Pyridine | 20.000 | 21.074 | -5.4 | 100 | 0.00 |
| 4 | S | SURR2Flphenol | 50.000 | 53.673 | -7.3 | 99 | 0.00 |
| 5 | CT | Aniline | 20.000 | 21.761 | -8.8 | 101 | 0.00 |
| 6 | CPT | bis2Clethletr | 20.000 | 21.641 | -8.2 | 102 | 0.00 |
| 7 | S | SURRPhenol-d5 | 50.000 | 53.991 | -8.0 | 101 | 0.00 |
| 8 | CPT | Phenol | 20.000 | 21.554 | -7.8 | 101 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 20.000 | 21.411 | -7.1 | 99 | 0.00 |
| 10 | CT | 13Diclbenz | 20.000 | 21.603 | -8.0 | 101 | 0.00 |
| 11 | CT | 14Diclbenz | 20.000 | 21.108 | -5.5 | 100 | 0.00 |
| 12 | CT | 12Diclbenz | 20.000 | 21.202 | -6.0 | 100 | 0.00 |
| 13 | CT | Benzyl alcoho | 20.000 | 21.811 | -9.1 | 99 | 0.00 |
| 14 | CPT | bis2clispreth | 20.000 | 21.220 | -6.1 | 101 | 0.00 |
| 15 | CPT | 2Methylphenol | 20.000 | 21.383 | -6.9 | 99 | 0.00 |
| 16 | CT | Ntrspyrrol | 20.000 | 21.772 | -8.9 | 99 | 0.00 |
| 17 | CPT | Acetophenone | 20.000 | 22.035 | -10.2 | 103 | 0.00 |
| 18 | CPT | Hexaclethane | 20.000 | 21.564 | -7.8 | 102 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 20.000 | 20.850 | -4.3 | 97 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 20.000 | 21.677 | -8.4 | 100 | 0.00 |
| 21 | I | Naphthalened8 | 20.000 | 20.000 | 0.0 | 93 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 100.000 | 107.638 | -7.6 | 99 | 0.00 |
| 23 | CPT | Nitrobenzene | 20.000 | 21.832 | -9.2 | 101 | 0.00 |
| 24 | CPT | Isophorone | 20.000 | 21.639 | -8.2 | 98 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 20.000 | 21.752 | -8.8 | 100 | 0.00 |
| 26 | CPT | 24Dimthpheno | 20.000 | 21.358 | -6.8 | 98 | 0.00 |
| 27 | CPT | bis2clethoxym | 20.000 | 21.681 | -8.4 | 100 | 0.00 |
| 28 | CPT | 24Diclphenol | 20.000 | 21.652 | -8.3 | 99 | 0.00 |
| 29 | CT | 124Triclbenz | 20.000 | 21.553 | -7.8 | 101 | 0.00 |
| 30 | CT | Benzoic acid | 20.000 | 19.901 | 0.5 | 93 | 0.00 |
| 31 | CPT | Naphthalene | 20.000 | 21.588 | -7.9 | 101 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 20.000 | 22.279 | -11.4 | 101 | 0.00 |
| 33 | CT | 26Diclphenol | 20.000 | 22.114 | -10.6 | 101 | 0.00 |
| 34 | CT | Hexaclprop | 20.000 | 22.577 | -12.9 | 100 | 0.00 |
| 35 | CPT | Hexaclbutdien | 20.000 | 21.755 | -8.8 | 101 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 20.000 | 22.111 | -10.6 | 99 | 0.00 |
| 37 | CPT | 2Methylnaphth | 20.000 | 21.575 | -7.9 | 100 | 0.00 |
| 38 | CT | 1Methylnaphth | 20.000 | 21.595 | -8.0 | 99 | 0.00 |
| 39 | I | Acenaphthened10 | 20.000 | 20.000 | 0.0 | 93 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 20.000 | 22.514 | -12.6 | 96 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 20.000 | 22.235 | -11.2 | 101 | 0.00 |
| 42 | CPT | 246Triclpheno | 20.000 | 22.619 | -13.1 | 100 | 0.00 |
| 43 | CPT | 245Triclpheno | 20.000 | 22.293 | -11.5 | 100 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 100.000 | 107.723 | -7.7 | 99 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 20.000 | 21.877 | -9.4 | 100 | 0.00 |
| 46 | CPT | 2Nitroaniline | 20.000 | 21.417 | -7.1 | 99 | 0.00 |
| 47 | CPT | Acnaphthylene | 20.000 | 21.896 | -9.5 | 100 | 0.00 |
| 48 | CPT | Dimethylphtha | 20.000 | 21.961 | -9.8 | 99 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 20.000 | 22.245 | -11.2 | 99 | 0.00 |
| 50 | CPT | Acenaphthene | 20.000 | 21.735 | -8.7 | 99 | 0.00 |
| 51 | CPT | 3Nitroaniline | 20.000 | 21.385 | -6.9 | 98 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040925\2ICV1.D Vial: 11
Acq On : 9 Apr 2025 16:47 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:04:24 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 20.000 | 21.141 | -5.7 | 96 | 0.00 |
| 53 | CPT | Dibenzofuran | 20.000 | 21.822 | -9.1 | 100 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 20.000 | 22.897 | -14.5 | 99 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 20.000 | 20.976 | -4.9 | 95 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 20.000 | 22.361 | -11.8 | 101 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 20.000 | 22.399 | -12.0 | 102 | 0.00 |
| 58 | CPT | Fluorene | 20.000 | 22.061 | -10.3 | 100 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 20.000 | 22.026 | -10.1 | 100 | 0.00 |
| 60 | CPT | Diethylphthal | 20.000 | 22.051 | -10.3 | 100 | 0.00 |
| 61 | CPT | 4Nitroaniline | 20.000 | 21.442 | -7.2 | 100 | 0.00 |
| 62 | S | SURR246Tribrphenl | 50.000 | 55.489 | -11.0 | 100 | 0.00 |
| 63 | I | Phenanthrd10 | 20.000 | 20.000 | 0.0 | 92 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 20.000 | 20.941 | -4.7 | 97 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 40.000 | 43.769 | -9.4 | 100 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 40.000 | 43.758 | -9.4 | 100 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 20.000 | 21.797 | -9.0 | 100 | 0.00 |
| 68 | CPT | Hexaclbenzene | 20.000 | 21.622 | -8.1 | 101 | 0.00 |
| 69 | CPT | Pentaclphenol | 20.000 | 21.107 | -5.5 | 98 | 0.00 |
| 70 | CPT | Phenanthrene | 20.000 | 21.733 | -8.7 | 99 | 0.00 |
| 71 | CPT | Anthracene | 20.000 | 21.940 | -9.7 | 100 | 0.00 |
| 72 | CPT | Carbazole | 20.000 | 20.932 | -4.7 | 101 | 0.00 |
| 73 | CPT | Dinbtylphthal | 20.000 | 22.465 | -12.3 | 100 | 0.00 |
| 74 | CPT | Fluoranthene | 20.000 | 22.174 | -10.9 | 101 | 0.00 |
| 75 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 76 | CT | Benzidine | 20.000 | 21.128 | -5.6 | 106 | 0.00 |
| 77 | CPT | Pyrene | 20.000 | 21.940 | -9.7 | 101 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 100.000 | 109.454 | -9.5 | 99 | 0.00 |
| 79 | CPT | Btylbzylphth | 20.000 | 22.778 | -13.9 | 103 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 20.000 | 22.824 | -14.1 | 100 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 20.000 | 20.456 | -2.3 | 101 | 0.00 |
| 82 | CPT | B[a]anthracen | 20.000 | 21.720 | -8.6 | 102 | 0.00 |
| 83 | CPT | Chrysene | 20.000 | 21.747 | -8.7 | 104 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 20.000 | 22.642 | -13.2 | 103 | 0.00 |
| 85 | CPT | Dinoctylphthl | 20.000 | 21.745 | -8.7 | 103 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 96 | 0.00 |
| 87 | CPT | B[b]fluoranth | 20.000 | 22.184 | -10.9 | 101 | 0.00 |
| 88 | CPT | B[k]fluoranth | 20.000 | 22.126 | -10.6 | 103 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 20.000 | 22.367 | -11.8 | 103 | 0.00 |
| 90 | CPT | Indeno-pyrene | 20.000 | 22.666 | -13.3 | 114 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 20.000 | 23.055 | -15.3 | 113 | 0.00 |
| 92 | CPT | B[ghi]perylen | 20.000 | 22.528 | -12.6 | 115 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040925\2ICV1.D Vial: 11
Acq On : 9 Apr 2025 16:47 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:04:24 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 2 | CT | Ntrsdimeth | 0.774 | 0.846 | -9.3 | 101 | 0.00 |
| 3 | CT | Pyridine | 1.384 | 1.458 | -5.3 | 100 | 0.00 |
| 4 | S | SURR2Flphenol | 0.482 | 0.517 | -7.3 | 99 | 0.00 |
| 5 | CT | Aniline | 1.846 | 2.009 | -8.8 | 101 | 0.00 |
| 6 | CPT | bis2Clethletr | 1.215 | 1.314 | -8.1 | 102 | 0.00 |
| 7 | S | SURRPhenol-d5 | 0.579 | 0.625 | -7.9 | 101 | 0.00 |
| 8 | CPT | Phenol | 1.483 | 1.598 | -7.8 | 101 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 1.336 | 1.430 | -7.0 | 99 | 0.00 |
| 10 | CT | 13Diclbenz | 1.455 | 1.571 | -8.0 | 101 | 0.00 |
| 11 | CT | 14Diclbenz | 1.489 | 1.571 | -5.5 | 100 | 0.00 |
| 12 | CT | 12Diclbenz | 1.406 | 1.490 | -6.0 | 100 | 0.00 |
| 13 | CT | Benzyl alcoho | 0.860 | 0.938 | -9.1 | 99 | 0.00 |
| 14 | CPT | bis2clispreth | 2.300 | 2.440 | -6.1 | 101 | 0.00 |
| 15 | CPT | 2Methylphenol | 1.034 | 1.106 | -7.0 | 99 | 0.00 |
| 16 | CT | Ntrspyrrol | 0.646 | 0.703 | -8.8 | 99 | 0.00 |
| 17 | CPT | Acetophenone | 1.871 | 2.061 | -10.2 | 103 | 0.00 |
| 18 | CPT | Hexaclethane | 0.567 | 0.611 | -7.8 | 102 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 0.896 | 0.934 | -4.2 | 97 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 1.340 | 1.453 | -8.4 | 100 | 0.00 |
| 21 | I | Naphthalened8 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 0.054 | 0.059 | -9.3 | 99 | 0.00 |
| 23 | CPT | Nitrobenzene | 0.263 | 0.287 | -9.1 | 101 | 0.00 |
| 24 | CPT | Isophorone | 0.555 | 0.600 | -8.1 | 98 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 0.175 | 0.190 | -8.6 | 100 | 0.00 |
| 26 | CPT | 24Dimthpheno | 0.269 | 0.287 | -6.7 | 98 | 0.00 |
| 27 | CPT | bis2clethoxym | 0.346 | 0.375 | -8.4 | 100 | 0.00 |
| 28 | CPT | 24Diclphenol | 0.252 | 0.272 | -7.9 | 99 | 0.00 |
| 29 | CT | 124Triclbenz | 0.281 | 0.303 | -7.8 | 101 | 0.00 |
| 30 | CT | Benzoic acid | 0.135 | 0.144 | -6.7 | 93 | 0.00 |
| 31 | CPT | Naphthalene | 0.922 | 0.996 | -8.0 | 101 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 0.360 | 0.401 | -11.4 | 101 | 0.00 |
| 33 | CT | 26Diclphenol | 0.248 | 0.274 | -10.5 | 101 | 0.00 |
| 34 | CT | Hexaclprop | 0.181 | 0.204 | -12.7 | 100 | 0.00 |
| 35 | CPT | Hexaclbutdien | 0.165 | 0.179 | -8.5 | 101 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 0.254 | 0.280 | -10.2 | 99 | 0.00 |
| 37 | CPT | 2Methylnaphth | 0.557 | 0.601 | -7.9 | 100 | 0.00 |
| 38 | CT | 1Methylnaphth | 0.577 | 0.623 | -8.0 | 99 | 0.00 |
| 39 | I | Acenaphthened10 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 0.310 | 0.349 | -12.6 | 96 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 0.456 | 0.507 | -11.2 | 101 | 0.00 |
| 42 | CPT | 246Triclpheno | 0.306 | 0.346 | -13.1 | 100 | 0.00 |
| 43 | CPT | 245Triclpheno | 0.332 | 0.371 | -11.7 | 100 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 0.239 | 0.257 | -7.5 | 99 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 1.011 | 1.106 | -9.4 | 100 | 0.00 |
| 46 | CPT | 2Nitroaniline | 0.301 | 0.336 | -11.6 | 99 | 0.00 |
| 47 | CPT | Acnaphthylene | 1.619 | 1.772 | -9.5 | 100 | 0.00 |
| 48 | CPT | Dimethylphtha | 1.182 | 1.298 | -9.8 | 99 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 0.268 | 0.298 | -11.2 | 99 | 0.00 |
| 50 | CPT | Acenaphthene | 0.962 | 1.045 | -8.6 | 99 | 0.00 |
| 51 | CPT | 3Nitroaniline | 0.279 | 0.310 | -11.1 | 98 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040925\2ICV1.D Vial: 11
Acq On : 9 Apr 2025 16:47 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:04:24 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 0.092 | 0.106 | -15.2 | 96 | 0.00 |
| 53 | CPT | Dibenzofuran | 1.389 | 1.516 | -9.1 | 100 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 0.351 | 0.402 | -14.5 | 99 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 0.191 | 0.208 | -8.9 | 95 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 0.224 | 0.274 | -22.3# | 101 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 0.247 | 0.291 | -17.8 | 102 | 0.00 |
| 58 | CPT | Fluorene | 1.062 | 1.171 | -10.3 | 100 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 0.500 | 0.551 | -10.2 | 100 | 0.00 |
| 60 | CPT | Diethylphthal | 1.177 | 1.297 | -10.2 | 100 | 0.00 |
| 61 | CPT | 4Nitroaniline | 0.242 | 0.273 | -12.8 | 100 | 0.00 |
| 62 | S | SURR246Tribrphenl | 0.054 | 0.059 | -9.3 | 100 | 0.00 |
| 63 | I | Phenanthrd10 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 0.111 | 0.125 | -12.6 | 97 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 0.516 | 0.564 | -9.3 | 100 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 0.184 | 0.201 | -9.2 | 100 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 0.188 | 0.205 | -9.0 | 100 | 0.00 |
| 68 | CPT | Hexaclbenzene | 0.210 | 0.227 | -8.1 | 101 | 0.00 |
| 69 | CPT | Pentaclphenol | 0.081 | 0.091 | -12.3 | 98 | 0.00 |
| 70 | CPT | Phenanthrene | 0.974 | 1.059 | -8.7 | 99 | 0.00 |
| 71 | CPT | Anthracene | 0.991 | 1.088 | -9.8 | 100 | 0.00 |
| 72 | CPT | Carbazole | 0.844 | 0.884 | -4.7 | 101 | 0.00 |
| 73 | CPT | Dinbtylphthal | 1.181 | 1.326 | -12.3 | 100 | 0.00 |
| 74 | CPT | Fluoranthene | 1.029 | 1.141 | -10.9 | 101 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 76 | CT | Benzidine | 0.293 | 0.295 | -0.7 | 106 | 0.00 |
| 77 | CPT | Pyrene | 1.270 | 1.394 | -9.8 | 101 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 0.195 | 0.213 | -9.2 | 99 | 0.00 |
| 79 | CPT | Btylbzylphth | 0.628 | 0.715 | -13.9 | 103 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 0.576 | 0.657 | -14.1 | 100 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 0.316 | 0.308 | 2.5 | 101 | 0.00 |
| 82 | CPT | B[a]anthracen | 1.204 | 1.308 | -8.6 | 102 | 0.00 |
| 83 | CPT | Chrysene | 1.129 | 1.228 | -8.8 | 104 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 0.916 | 1.037 | -13.2 | 103 | 0.00 |
| 85 | CPT | Dinoctylphthl | 1.512 | 1.727 | -14.2 | 103 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 87 | CPT | B[b]fluoranth | 1.059 | 1.175 | -11.0 | 101 | 0.00 |
| 88 | CPT | B[k]fluoranth | 1.061 | 1.174 | -10.7 | 103 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 0.974 | 1.090 | -11.9 | 103 | 0.00 |
| 90 | CPT | Indeno-pyrene | 1.078 | 1.221 | -13.3 | 114 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 0.881 | 1.015 | -15.2 | 113 | 0.00 |
| 92 | CPT | B[ghi]perylen | 0.844 | 0.951 | -12.7 | 115 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICV1.D Vial: 11
Acq On : 9 Apr 2025 16:47 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:04:24 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.349 | 152 | 174447 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.040 | 136 | 820020 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.816 | 164 | 449498 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.864 | 188 | 657140 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.757 | 240 | 556515 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.342 | 264 | 583857 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.105 | 112 | 225429 | 53.67 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.67% | | | |
| 7) SURRPhenol-d5 | 3.931 | 99 | 272557 | 53.99 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.99% | | | |
| 22) SURRNitrbenzened5 | 5.037 | 82 | 240501 | 107.64 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 107.64% | | | |
| 44) SURR2Flbiphenyl | 7.230 | 172 | 577677 | 107.72 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 107.72% | | | |
| 62) SURR246Tribrphenl | 8.415 | 330 | 66764 | 55.49 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 55.49% | | | |
| 78) SURRTerphenyl-d14 | 9.938 | 244 | 593968 | 109.45 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 109.45% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.303 | 74 | 147605 | 21.8527 | ug/mL | 98 |
| 3) Pyridine | 2.326 | 79 | 254349 | 21.0743 | ug/mL | 99 |
| 5) Aniline | 3.983 | 93 | 350385 | 21.7613 | ug/mL | 99 |
| 6) bis2Clethletr | 4.051 | 93 | 229301 | 21.6412 | ug/mL | 99 |
| 8) Phenol | 3.946 | 94 | 278808 | 21.5538 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.110 | 128 | 249428 | 21.4106 | ug/mL | 98 |
| 10) 13Diclbenz | 4.281 | 146 | 274099 | 21.6028 | ug/mL | 98 |
| 11) 14Diclbenz | 4.369 | 146 | 274082 | 21.1079 | ug/mL | 98 |
| 12) 12Diclbenz | 4.545 | 146 | 260001 | 21.2016 | ug/mL | 98 |
| 13) Benzyl alcoho | 4.511 | 108 | 163591 | 21.8109 | ug/mL | 99 |
| 14) bis2clispreth | 4.684 | 45 | 425658 | 21.2197 | ug/mL | 98 |
| 15) 2Methylphenol | 4.650 | 107 | 192882 | 21.3828 | ug/mL | 96 |
| 16) Ntrspyrrol | 4.815 | 100 | 122610 | 21.7720 | ug/mL | 97 |
| 17) Acetophenone | 4.846 | 105 | 359515 | 22.0354 | ug/mL | 99 |
| 18) Hexaclethane | 4.969 | 117 | 106577 | 21.5639 | ug/mL | 97 |
| 19) N-Ntrsdinprop | 4.858 | 70 | 162987 | 20.8497 | ug/mL | 98 |
| 20) 3&4Methylphenol | 4.858 | 107 | 253454 | 21.6772 | ug/mL | 98 |
| 23) Nitrobenzene | 5.062 | 77 | 235696 | 21.8319 | ug/mL | 99 |
| 24) Isophorone | 5.426 | 82 | 492159 | 21.6391 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.528 | 139 | 155964 | 21.7520 | ug/mL | 96 |
| 26) 24Dimthpheno | 5.622 | 122 | 235380 | 21.3581 | ug/mL | 97 |
| 27) bis2clethoxym | 5.761 | 93 | 307243 | 21.6809 | ug/mL | 99 |
| 28) 24Diclphenol | 5.869 | 162 | 223320 | 21.6516 | ug/mL | 99 |
| 29) 124Triclbenz | 5.974 | 180 | 248558 | 21.5528 | ug/mL | 98 |
| 30) Benzoic acid | 5.778 | 122 | 118125 | 19.9014 | ug/mL | 94 |
| 31) Naphthalene | 6.065 | 128 | 816419 | 21.5877 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.153 | 127 | 328781 | 22.2789 | ug/mL | 99 |
| 33) 26Diclphenol | 6.156 | 162 | 224599 | 22.1136 | ug/mL | 99 |
| 34) Hexaclprop | 6.182 | 213 | 167290 | 22.5765 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.239 | 225 | 146914 | 21.7550 | ug/mL | 99 |
| 36) 4Cl3methylphe | 6.730 | 107 | 230012 | 22.1112 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.855 | 142 | 493133 | 21.5747 | ug/mL | 98 |
| 38) 1Methylnaphth | 6.955 | 142 | 510486 | 21.5951 | ug/mL | 99 |
| 40) Hxclcycpentdi | 7.023 | 237 | 156878 | 22.5138 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICV1.D Vial: 11
Acq On : 9 Apr 2025 16:47 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:04:24 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

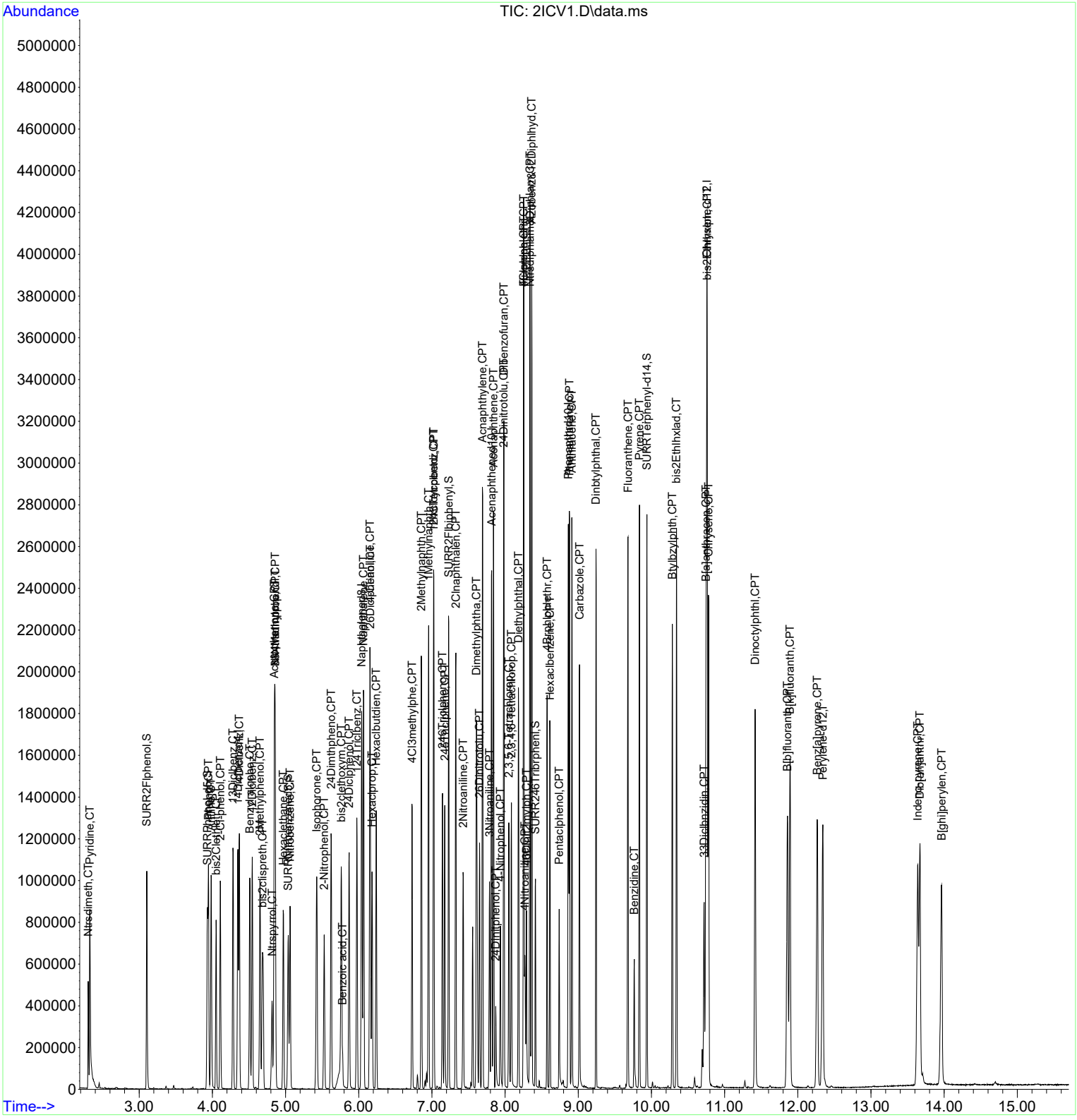
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.026 | 216 | 227764 | 22.2350 ug/mL | 99 |
| 42) 246Triclpheno | 7.145 | 196 | 155508 | 22.6188 ug/mL | 94 |
| 43) 245Triclpheno | 7.176 | 196 | 166589 | 22.2929 ug/mL | 95 |
| 45) 2Clnaphthalen | 7.327 | 162 | 497221 | 21.8774 ug/mL | 99 |
| 46) 2Nitroaniline | 7.426 | 65 | 151164 | 21.4173 ug/mL | 98 |
| 47) Acnaphthylene | 7.691 | 152 | 796566 | 21.8963 ug/mL | 99 |
| 48) Dimethylphtha | 7.608 | 163 | 583539 | 21.9608 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.651 | 165 | 134153 | 22.2453 ug/mL | 95 |
| 50) Acenaphthene | 7.841 | 154 | 469931 | 21.7355 ug/mL | 99 |
| 51) 3Nitroaniline | 7.787 | 138 | 139205 | 21.3854 ug/mL | 97 |
| 52) 24Dinitphenol | 7.873 | 184 | 47459 | 21.1413 ug/mL | 93 |
| 53) Dibenzofuran | 7.983 | 168 | 681336 | 21.8224 ug/mL | 99 |
| 54) 24Dinitrotolu | 7.980 | 165 | 180729 | 22.8973 ug/mL | 98 |
| 55) 4-Nitrophenol | 7.935 | 65 | 93374 | 20.9756 ug/mL | 95 |
| 56) 2,3,5,6-Tetrachlorop | 8.052 | 232 | 123216 | 22.3605 ug/mL | 96 |
| 57) 2,3,4,6-Tetrachlorop | 8.086 | 232 | 130993 | 22.3987 ug/mL | 96 |
| 58) Fluorene | 8.253 | 166 | 526547 | 22.0612 ug/mL | 98 |
| 59) 4Clphlphlethr | 8.256 | 204 | 247591 | 22.0261 ug/mL | 99 |
| 60) Diethylphthal | 8.182 | 149 | 583087 | 22.0511 ug/mL | 99 |
| 61) 4Nitroaniline | 8.270 | 138 | 122542 | 21.4417 ug/mL | 98 |
| 64) 46Dinit2mylph | 8.293 | 198 | 81998 | 20.9407 ug/mL | 100 |
| 65) Ntrsdiphlam&Diphlam | 8.341 | 169 | 741563 | 43.7687 ug/mL | 100 |
| 66) Azobenz&12Diphlhyd | 8.364 | 182 | 264366 | 43.7580 ug/mL | 99 |
| 67) 4Brphlphlethr | 8.574 | 248 | 134491 | 21.7972 ug/mL | 94 |
| 68) Hexaclbenzene | 8.614 | 284 | 149212 | 21.6222 ug/mL | 98 |
| 69) Pentaclphenol | 8.739 | 266 | 59608 | 21.1073 ug/mL | 97 |
| 70) Phenanthrene | 8.881 | 178 | 695789 | 21.7329 ug/mL | 99 |
| 71) Anthracene | 8.912 | 178 | 714673 | 21.9405 ug/mL | 98 |
| 72) Carbazole | 9.018 | 167 | 580600 | 20.9323 ug/mL | 100 |
| 73) Dinbtylphthal | 9.242 | 149 | 871672 | 22.4648 ug/mL | 100 |
| 74) Fluoranthene | 9.680 | 202 | 749645 | 22.1743 ug/mL | 99 |
| 76) Benzidine | 9.765 | 184 | 164309 | 21.1282 ug/mL | 99 |
| 77) Pyrene | 9.836 | 202 | 775539 | 21.9396 ug/mL | 99 |
| 79) Btylbzylphth | 10.285 | 149 | 398102 | 22.7781 ug/mL | 99 |
| 80) bis2Ethlhxlad | 10.342 | 129 | 365699 | 22.8242 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.720 | 252 | 171413 | 20.4560 ug/mL | 98 |
| 82) B[a]anthracen | 10.745 | 228 | 727733 | 21.7198 ug/mL | 99 |
| 83) Chrysene | 10.782 | 228 | 683373 | 21.7475 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.762 | 149 | 577350 | 22.6418 ug/mL | 99 |
| 85) Dinoctylphthl | 11.416 | 149 | 960878 | 21.7447 ug/mL | 98 |
| 87) B[b]fluoranth | 11.859 | 252 | 686092 | 22.1836 ug/mL | 100 |
| 88) B[k]fluoranth | 11.893 | 252 | 685621 | 22.1260 ug/mL | 100 |
| 89) Benz[a]pyrene | 12.265 | 252 | 636169 | 22.3667 ug/mL | 99 |
| 90) Indeno-pyrene | 13.638 | 276 | 713058 | 22.6664 ug/mL | 99 |
| 91) Dib[ah]anthr | 13.669 | 278 | 592874 | 23.0553 ug/mL | 99 |
| 92) B[ghi]perylen | 13.965 | 276 | 555239 | 22.5275 ug/mL | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICV1.D Vial: 11
Acq On : 9 Apr 2025 16:47 Operator: JJY
Sample : ICV 20 ug/mL SVMS10288 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:04:24 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040925\2ICV2.D Vial: 12
Acq On : 9 Apr 2025 17:10 Operator: JJY
Sample : ICV 40 ug/mL SVMS10289 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:27:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 20.000 | 20.000 | 0.0 | 96 | 0.00 |
| 2 | CT | Ntrsdimeth | 40.000 | 42.687 | -6.7 | 102 | 0.00 |
| 3 | CT | Pyridine | 40.000 | 42.249 | -5.6 | 102 | 0.00 |
| 4 | S | SURR2Flphenol | 100.000 | 105.267 | -5.3 | 101 | 0.00 |
| 5 | CT | Aniline | 40.000 | 42.039 | -5.1 | 100 | 0.00 |
| 6 | CPT | bis2Clethletr | 40.000 | 41.719 | -4.3 | 101 | 0.00 |
| 7 | S | SURRPhenol-d5 | 100.000 | 105.414 | -5.4 | 99 | 0.00 |
| 8 | CPT | Phenol | 40.000 | 42.350 | -5.9 | 101 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 40.000 | 42.234 | -5.6 | 101 | 0.00 |
| 10 | CT | 13Diclbenz | 40.000 | 41.611 | -4.0 | 102 | 0.00 |
| 11 | CT | 14Diclbenz | 40.000 | 41.084 | -2.7 | 101 | 0.00 |
| 12 | CT | 12Diclbenz | 40.000 | 41.440 | -3.6 | 101 | 0.00 |
| 13 | CT | Benzyl alcoho | 40.000 | 43.312 | -8.3 | 101 | 0.00 |
| 14 | CPT | bis2clispreth | 40.000 | 41.328 | -3.3 | 99 | 0.00 |
| 15 | CPT | 2Methylphenol | 40.000 | 42.455 | -6.1 | 101 | 0.00 |
| 16 | CT | Ntrspyrrol | 40.000 | 44.071 | -10.2 | 101 | 0.02 |
| 17 | CPT | Acetophenone | 40.000 | 42.237 | -5.6 | 102 | 0.00 |
| 18 | CPT | Hexaclethane | 40.000 | 42.801 | -7.0 | 101 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 40.000 | 41.677 | -4.2 | 98 | 0.01 |
| 20 | CPT | 3&4Methylphenol | 40.000 | 41.995 | -5.0 | 101 | 0.01 |
| 21 | I | Naphthalened8 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 200.000 | 213.312 | -6.7 | 100 | 0.00 |
| 23 | CPT | Nitrobenzene | 40.000 | 43.033 | -7.6 | 102 | 0.00 |
| 24 | CPT | Isophorone | 40.000 | 42.639 | -6.6 | 100 | 0.01 |
| 25 | CPT | 2-Nitrophenol | 40.000 | 43.164 | -7.9 | 101 | 0.00 |
| 26 | CPT | 24Dimthpheno | 40.000 | 41.529 | -3.8 | 100 | 0.00 |
| 27 | CPT | bis2clethoxym | 40.000 | 42.060 | -5.2 | 100 | 0.00 |
| 28 | CPT | 24Diclphenol | 40.000 | 42.693 | -6.7 | 101 | 0.00 |
| 29 | CT | 124Triclbenz | 40.000 | 41.839 | -4.6 | 101 | 0.00 |
| 30 | CT | Benzoic acid | 40.000 | 43.036 | -7.6 | 102 | 0.06 |
| 31 | CPT | Naphthalene | 40.000 | 40.783 | -2.0 | 102 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 40.000 | 43.226 | -8.1 | 99 | 0.00 |
| 33 | CT | 26Diclphenol | 40.000 | 42.488 | -6.2 | 103 | 0.00 |
| 34 | CT | Hexaclprop | 40.000 | 45.160 | -12.9 | 104 | 0.00 |
| 35 | CPT | Hexaclbutdien | 40.000 | 41.821 | -4.6 | 100 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 40.000 | 43.326 | -8.3 | 101 | 0.00 |
| 37 | CPT | 2Methylnaphth | 40.000 | 41.047 | -2.6 | 102 | 0.00 |
| 38 | CT | 1Methylnaphth | 40.000 | 40.862 | -2.2 | 101 | 0.00 |
| 39 | I | Acenaphthened10 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 40.000 | 44.596 | -11.5 | 101 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 40.000 | 42.020 | -5.1 | 103 | 0.00 |
| 42 | CPT | 246Triclpheno | 40.000 | 44.021 | -10.1 | 102 | 0.00 |
| 43 | CPT | 245Triclpheno | 40.000 | 44.177 | -10.4 | 103 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 200.000 | 202.132 | -1.1 | 100 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 40.000 | 41.372 | -3.4 | 101 | 0.00 |
| 46 | CPT | 2Nitroaniline | 40.000 | 42.172 | -5.4 | 100 | 0.00 |
| 47 | CPT | Acnaphthylene | 40.000 | 40.594 | -1.5 | 101 | 0.00 |
| 48 | CPT | Dimethylphtha | 40.000 | 41.363 | -3.4 | 101 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 40.000 | 43.053 | -7.6 | 101 | 0.00 |
| 50 | CPT | Acenaphthene | 40.000 | 41.033 | -2.6 | 101 | 0.00 |
| 51 | CPT | 3Nitroaniline | 40.000 | 42.907 | -7.3 | 103 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040925\2ICV2.D Vial: 12
Acq On : 9 Apr 2025 17:10 Operator: JJY
Sample : ICV 40 ug/mL SVMS10289 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:27:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 40.000 | 44.977 | -12.4 | 110 | 0.00 |
| 53 | CPT | Dibenzofuran | 40.000 | 39.910 | 0.2 | 102 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 40.000 | 43.811 | -9.5 | 102 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 40.000 | 42.956 | -7.4 | 104 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 40.000 | 42.790 | -7.0 | 104 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 40.000 | 43.144 | -7.9 | 104 | 0.00 |
| 58 | CPT | Fluorene | 40.000 | 40.077 | -0.2 | 103 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 40.000 | 40.076 | -0.2 | 102 | 0.00 |
| 60 | CPT | Diethylphthal | 40.000 | 42.448 | -6.1 | 103 | 0.00 |
| 61 | CPT | 4Nitroaniline | 40.000 | 41.979 | -4.9 | 102 | 0.00 |
| 62 | S | SURR246Tribrphenl | 100.000 | 108.545 | -8.5 | 101 | 0.00 |
| 63 | I | Phenanthrd10 | 20.000 | 20.000 | 0.0 | 96 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 40.000 | 43.925 | -9.8 | 106 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 80.000 | 80.323 | -0.4 | 103 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 80.000 | 81.782 | -2.2 | 104 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 40.000 | 41.267 | -3.2 | 101 | 0.00 |
| 68 | CPT | Hexaclbenzene | 40.000 | 41.340 | -3.4 | 101 | 0.00 |
| 69 | CPT | Pentaclphenol | 40.000 | 42.370 | -5.9 | 103 | 0.00 |
| 70 | CPT | Phenanthrene | 40.000 | 40.061 | -0.2 | 103 | 0.00 |
| 71 | CPT | Anthracene | 40.000 | 40.610 | -1.5 | 103 | 0.00 |
| 72 | CPT | Carbazole | 40.000 | 41.193 | -3.0 | 105 | 0.00 |
| 73 | CPT | Dinbtylphthal | 40.000 | 41.304 | -3.3 | 103 | 0.00 |
| 74 | CPT | Fluoranthene | 40.000 | 41.409 | -3.5 | 105 | 0.00 |
| 75 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 98 | 0.00 |
| 76 | CT | Benzidine | 40.000 | 46.784 | -17.0 | 124 | 0.00 |
| 77 | CPT | Pyrene | 40.000 | 42.165 | -5.4 | 105 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 200.000 | 213.805 | -6.9 | 104 | 0.00 |
| 79 | CPT | Btylbzylphth | 40.000 | 45.220 | -13.0 | 105 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 40.000 | 44.667 | -11.7 | 104 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 40.000 | 42.314 | -5.8 | 108 | 0.00 |
| 82 | CPT | B[a]anthracen | 40.000 | 42.789 | -7.0 | 105 | 0.00 |
| 83 | CPT | Chrysene | 40.000 | 42.899 | -7.2 | 107 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 40.000 | 43.963 | -9.9 | 104 | 0.00 |
| 85 | CPT | Dinoctylphthl | 40.000 | 42.157 | -5.4 | 105 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 99 | 0.00 |
| 87 | CPT | B[b]fluoranth | 40.000 | 42.178 | -5.4 | 105 | 0.01 |
| 88 | CPT | B[k]fluoranth | 40.000 | 43.109 | -7.8 | 108 | 0.01 |
| 89 | CPT | Benz[a]pyrene | 40.000 | 43.695 | -9.2 | 106 | 0.01 |
| 90 | CPT | Indeno-pyrene | 40.000 | 44.825 | -12.1 | 111 | 0.01 |
| 91 | CPT | Dib[ah]anthr | 40.000 | 45.085 | -12.7 | 112 | 0.02 |
| 92 | CPT | B[ghi]perylen | 40.000 | 44.239 | -10.6 | 112 | 0.02 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICV2.D Vial: 12
Acq On : 9 Apr 2025 17:10 Operator: JJY
Sample : ICV 40 ug/mL SVMS10289 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:27:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.349 | 152 | 178302 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.043 | 136 | 843823 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.816 | 164 | 463148 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.867 | 188 | 674696 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.762 | 240 | 555454 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.348 | 264 | 613132 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.107 | 112 | 451892 | 105.27 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 105.27% | | | |
| 7) SURRPhenol-d5 | 3.940 | 99 | 543908 | 105.41 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 105.41% | | | |
| 22) SURRNitrbenzened5 | 5.045 | 82 | 490451 | 213.31 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 213.31% | | | |
| 44) SURR2Flbiphenyl | 7.230 | 172 | 1116873 | 202.13 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 202.13% | | | |
| 62) SURR246Tribrphenl | 8.418 | 330 | 134567 | 108.54 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 108.54% | | | |
| 78) SURRTerphenyl-d14 | 9.941 | 244 | 1158029 | 213.80 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 213.80% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.306 | 74 | 294703 | 42.6871 | ug/mL | 99 |
| 3) Pyridine | 2.326 | 79 | 521183 | 42.2494 | ug/mL | 98 |
| 5) Aniline | 3.988 | 93 | 691836 | 42.0387 | ug/mL | 99 |
| 6) bis2Clethletr | 4.057 | 93 | 451806 | 41.7190 | ug/mL | 100 |
| 8) Phenol | 3.954 | 94 | 559916 | 42.3495 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.113 | 128 | 502891 | 42.2342 | ug/mL | 97 |
| 10) 13Diclbenz | 4.287 | 146 | 539630 | 41.6108 | ug/mL | 98 |
| 11) 14Diclbenz | 4.372 | 146 | 545253 | 41.0838 | ug/mL | 100 |
| 12) 12Diclbenz | 4.548 | 146 | 519418 | 41.4399 | ug/mL | 97 |
| 13) Benzyl alcoho | 4.520 | 108 | 332040 | 43.3124 | ug/mL | 99 |
| 14) bis2clispreth | 4.687 | 45 | 847335 | 41.3277 | ug/mL | 98 |
| 15) 2Methylphenol | 4.659 | 107 | 391425 | 42.4550 | ug/mL | 99 |
| 16) Ntrspyrrol | 4.835 | 100 | 253670 | 44.0706 | ug/mL | 99 |
| 17) Acetophenone | 4.855 | 105 | 704332 | 42.2365 | ug/mL | 97 |
| 18) Hexaclethane | 4.971 | 117 | 216215 | 42.8013 | ug/mL | 98 |
| 19) N-Ntrsdinprop | 4.869 | 70 | 333000 | 41.6773 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.872 | 107 | 501867 | 41.9951 | ug/mL | 95 |
| 23) Nitrobenzene | 5.071 | 77 | 478072 | 43.0335 | ug/mL | 99 |
| 24) Isophorone | 5.437 | 82 | 997924 | 42.6388 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.534 | 139 | 318474 | 43.1641 | ug/mL | 99 |
| 26) 24Dimthpheno | 5.631 | 122 | 470964 | 41.5291 | ug/mL | 99 |
| 27) bis2clethoxym | 5.767 | 93 | 613342 | 42.0602 | ug/mL | 99 |
| 28) 24Diclphenol | 5.875 | 162 | 453133 | 42.6934 | ug/mL | 98 |
| 29) 124Triclbenz | 5.977 | 180 | 496514 | 41.8389 | ug/mL | 98 |
| 30) Benzoic acid | 5.838 | 122 | 289237 | 43.0355 | ug/mL | 91 |
| 31) Naphthalene | 6.071 | 128 | 1587136 | 40.7832 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.159 | 127 | 656430 | 43.2263 | ug/mL | 99 |
| 33) 26Diclphenol | 6.162 | 162 | 444061 | 42.4881 | ug/mL | 97 |
| 34) Hexaclprop | 6.185 | 213 | 344347 | 45.1603 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.242 | 225 | 290618 | 41.8208 | ug/mL | 99 |
| 36) 4Cl3methylphe | 6.730 | 107 | 463781 | 43.3260 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.858 | 142 | 965446 | 41.0471 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.958 | 142 | 993963 | 40.8616 | ug/mL | 100 |
| 40) Hxclcycpentdi | 7.023 | 237 | 320186 | 44.5962 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICV2.D Vial: 12
Acq On : 9 Apr 2025 17:10 Operator: JJY
Sample : ICV 40 ug/mL SVMS10289 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:27:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

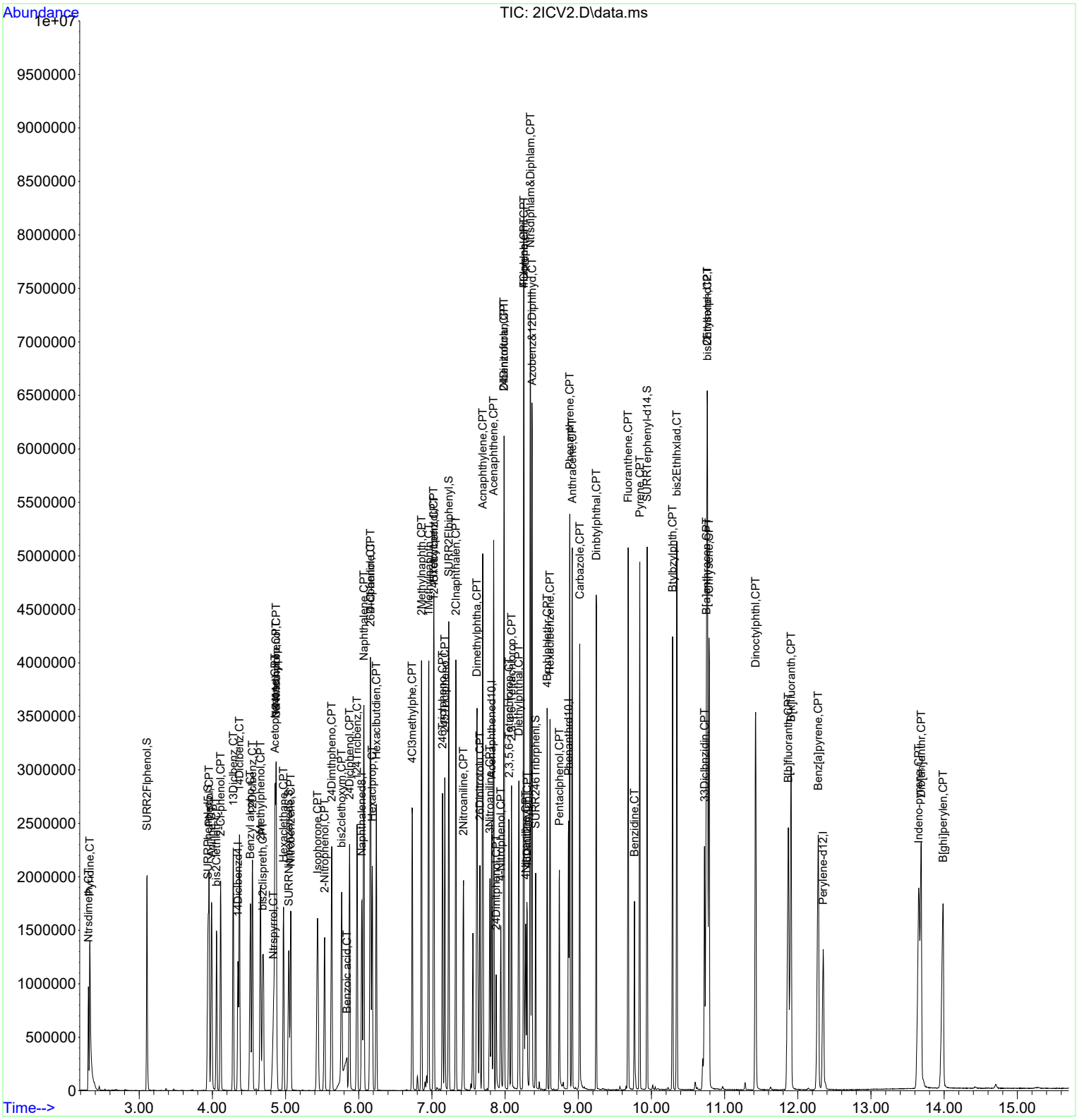
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.029 | 216 | 443499 | 42.0196 ug/mL | 98 |
| 42) 246Triclpheno | 7.145 | 196 | 311844 | 44.0212 ug/mL | 97 |
| 43) 245Triclpheno | 7.176 | 196 | 340149 | 44.1772 ug/mL | 95 |
| 45) 2Clnaphthalen | 7.327 | 162 | 968836 | 41.3719 ug/mL | 97 |
| 46) 2Nitroaniline | 7.432 | 65 | 314124 | 42.1724 ug/mL | 96 |
| 47) Acnaphthylene | 7.694 | 152 | 1521597 | 40.5935 ug/mL | 98 |
| 48) Dimethylphtha | 7.614 | 163 | 1132461 | 41.3628 ug/mL | 100 |
| 49) 26Dinitrotolu | 7.657 | 165 | 267521 | 43.0530 ug/mL | 96 |
| 50) Acenaphthene | 7.844 | 154 | 914083 | 41.0326 ug/mL | 99 |
| 51) 3Nitroaniline | 7.793 | 138 | 297259 | 42.9065 ug/mL | 98 |
| 52) 24Dinitphenol | 7.878 | 184 | 132432 | 44.9774 ug/mL | 92 |
| 53) Dibenzofuran | 7.986 | 168 | 1283892 | 39.9097 ug/mL | 98 |
| 54) 24Dinitrotolu | 7.986 | 165 | 356303 | 43.8110 ug/mL | 94 |
| 55) 4-Nitrophenol | 7.941 | 65 | 202138 | 42.9562 ug/mL | 97 |
| 56) 2,3,5,6-Tetrachlorop | 8.054 | 232 | 255945 | 42.7897 ug/mL | 98 |
| 57) 2,3,4,6-Tetrachlorop | 8.089 | 232 | 262847 | 43.1441 ug/mL | 96 |
| 58) Fluorene | 8.256 | 166 | 985589 | 40.0770 ug/mL | 99 |
| 59) 4Clphlphlethr | 8.256 | 204 | 464164 | 40.0758 ug/mL | 98 |
| 60) Diethylphthal | 8.188 | 149 | 1156528 | 42.4485 ug/mL | 99 |
| 61) 4Nitroaniline | 8.282 | 138 | 255759 | 41.9786 ug/mL | 98 |
| 64) 46Dinit2mylph | 8.302 | 198 | 186832 | 43.9254 ug/mL | 96 |
| 65) Ntrsdiphlam&Diphlam | 8.347 | 169 | 1397252 | 80.3230 ug/mL | 98 |
| 66) Azobenz&12Diphlhyd | 8.370 | 182 | 507290 | 81.7821 ug/mL# | 84 |
| 67) 4Brphlphlethr | 8.577 | 248 | 261424 | 41.2669 ug/mL | 95 |
| 68) Hexaclbenzene | 8.614 | 284 | 292903 | 41.3399 ug/mL | 95 |
| 69) Pentaclphenol | 8.742 | 266 | 146648 | 42.3699 ug/mL | 95 |
| 70) Phenanthrene | 8.884 | 178 | 1316848 | 40.0613 ug/mL | 97 |
| 71) Anthracene | 8.918 | 178 | 1358149 | 40.6102 ug/mL | 98 |
| 72) Carbazole | 9.021 | 167 | 1173090 | 41.1928 ug/mL | 99 |
| 73) Dinbtylphthal | 9.248 | 149 | 1645499 | 41.3044 ug/mL | 99 |
| 74) Fluoranthene | 9.683 | 202 | 1437309 | 41.4089 ug/mL | 98 |
| 76) Benzidine | 9.768 | 184 | 463314 | 46.7842 ug/mL | 97 |
| 77) Pyrene | 9.842 | 202 | 1487647 | 42.1652 ug/mL | 98 |
| 79) Btylbzylphth | 10.288 | 149 | 788821 | 45.2200 ug/mL | 100 |
| 80) bis2Ethlhxlad | 10.347 | 129 | 714305 | 44.6668 ug/mL | 98 |
| 81) 33Diclbnzidin | 10.725 | 252 | 406618 | 42.3135 ug/mL | 99 |
| 82) B[a]anthracen | 10.751 | 228 | 1430922 | 42.7887 ug/mL | 98 |
| 83) Chrysene | 10.788 | 228 | 1345462 | 42.8994 ug/mL | 98 |
| 84) bis2Ethlhxlph | 10.765 | 149 | 1118892 | 43.9632 ug/mL | 97 |
| 85) Dinoctylphthl | 11.424 | 149 | 1931910 | 42.1569 ug/mL | 99 |
| 87) B[b]fluoranth | 11.870 | 252 | 1369885 | 42.1780 ug/mL | 99 |
| 88) B[k]fluoranth | 11.907 | 252 | 1402797 | 43.1088 ug/mL | 98 |
| 89) Benz[a]pyrene | 12.280 | 252 | 1305117 | 43.6950 ug/mL | 99 |
| 90) Indeno-pyrene | 13.652 | 276 | 1480829 | 44.8246 ug/mL | 98 |
| 91) Dib[ah]anthr | 13.686 | 278 | 1217504 | 45.0849 ug/mL | 99 |
| 92) B[ghi]perylen | 13.987 | 276 | 1145034 | 44.2389 ug/mL | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICV2.D Vial: 12
Acq On : 9 Apr 2025 17:10 Operator: JJY
Sample : ICV 40 ug/mL SVMS10289 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:27:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL1.D Vial: 10
Acq On : 9 Apr 2025 16:23 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:58:51 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M re-quanted with new ical
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.346 | 152 | 165992 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.037 | 136 | 790847 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.813 | 164 | 440921 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.864 | 188 | 645904 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.754 | 240 | 564569 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.337 | 264 | 542193 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.102 | 112 | 9263 | 2.32 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.32% | | | |
| 7) SURRPhenol-d5 | 3.926 | 99 | 11112 | 2.31 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.31% | | | |
| 22) SURRNitrbenzened5 | 5.031 | 82 | 10141 | 4.71 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.71% | | | |
| 44) SURR2Flbiphenyl | 7.228 | 172 | 27764 | 5.28 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 5.28% | | | |
| 62) SURR246Tribrphenl | 8.410 | 330 | 2810 | 2.38 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 2.38% | | | |
| 78) SURRTerphenyl-d14 | 9.935 | 244 | 27020 | 4.91 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 4.91% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.312 | 74 | 6116 | 0.9516 | ug/mL | 83 |
| 3) Pyridine | 2.340 | 79 | 11624 | 1.0122 | ug/mL | 98 |
| 5) Aniline | 3.980 | 93 | 14534 | 0.9486 | ug/mL | 98 |
| 6) bis2Clethletr | 4.048 | 93 | 9961 | 0.9880 | ug/mL | 93 |
| 8) Phenol | 3.940 | 94 | 11580 | 0.9408 | ug/mL | 91 |
| 9) 2-Cl-phenol | 4.105 | 128 | 10630 | 0.9589 | ug/mL | 91 |
| 10) 13Diclbenz | 4.281 | 146 | 12096 | 1.0019 | ug/mL | 95 |
| 11) 14Diclbenz | 4.366 | 146 | 12983 | 1.0508 | ug/mL | 96 |
| 12) 12Diclbenz | 4.542 | 146 | 12220 | 1.0472 | ug/mL | 93 |
| 13) Benzyl alcoho | 4.505 | 108 | 6221 | 0.8717 | ug/mL | 89 |
| 14) bis2clispreth | 4.679 | 45 | 19814 | 1.0381 | ug/mL | 97 |
| 15) 2Methylphenol | 4.645 | 107 | 8184 | 0.9535 | ug/mL | 86 |
| 16) Ntrspyrrol | 4.801 | 100 | 4681 | 0.8736 | ug/mL | 84 |
| 17) Acetophenone | 4.838 | 105 | 15622 | 1.0063 | ug/mL | 98 |
| 18) Hexaclethane | 4.969 | 117 | 4746 | 1.0092 | ug/mL | 92 |
| 19) N-Ntrsdinprop | 4.844 | 70 | 7165 | 0.9633 | ug/mL | 93 |
| 20) 3&4Methylphenol | 4.844 | 107 | 10627 | 0.9552 | ug/mL# | 66 |
| 23) Nitrobenzene | 5.057 | 77 | 10243 | 0.9838 | ug/mL | 94 |
| 24) Isophorone | 5.415 | 82 | 20567 | 0.9376 | ug/mL | 96 |
| 25) 2-Nitrophenol | 5.523 | 139 | 6402 | 0.9258 | ug/mL | 90 |
| 26) 24Dimthpheno | 5.617 | 122 | 10695 | 1.0062 | ug/mL | 95 |
| 27) bis2clethoxym | 5.759 | 93 | 13279 | 0.9716 | ug/mL | 94 |
| 28) 24Diclphenol | 5.861 | 162 | 9093 | 0.9141 | ug/mL | 88 |
| 29) 124Triclbenz | 5.972 | 180 | 11334 | 1.0190 | ug/mL | 98 |
| 30) Benzoic acid | 5.685 | 122 | 675 | 3.0358 | ug/mL# | 73 |
| 31) Naphthalene | 6.063 | 128 | 38635 | 1.0593 | ug/mL | 98 |
| 32) 4-Cl-aniline | 6.145 | 127 | 13121 | 0.9219 | ug/mL | 97 |
| 33) 26Diclphenol | 6.154 | 162 | 9767 | 0.9971 | ug/mL | 97 |
| 34) Hexaclprop | 6.179 | 213 | 6195 | 0.8669 | ug/mL | 90 |
| 35) Hexaclbutdien | 6.239 | 225 | 6586 | 1.0112 | ug/mL | 95 |
| 36) 4Cl3methylphe | 6.728 | 107 | 9001 | 0.8972 | ug/mL | 92 |
| 37) 2Methylnaphth | 6.855 | 142 | 22731 | 1.0312 | ug/mL | 95 |
| 38) 1Methylnaphth | 6.952 | 142 | 23302 | 1.0221 | ug/mL | 99 |
| 40) Hxclcycpentdi | 7.023 | 237 | 5569 | 0.8148 | ug/mL | 96 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL1.D Vial: 10
Acq On : 9 Apr 2025 16:23 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:58:51 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

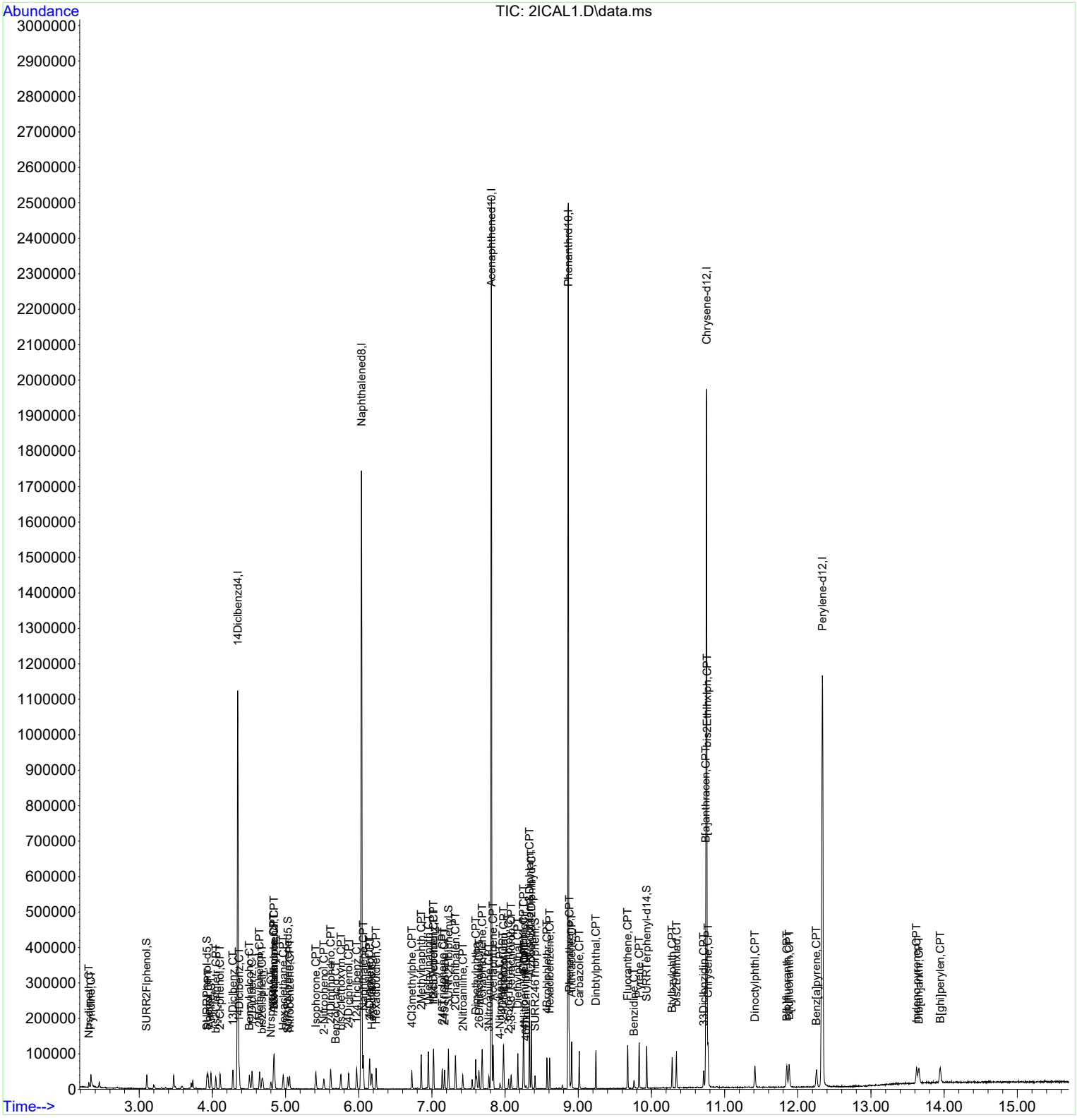
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.023 | 216 | 10448 | 1.0398 ug/mL | 97 |
| 42) 246Triclpheno | 7.142 | 196 | 5893 | 0.8738 ug/mL | 92 |
| 43) 245Triclpheno | 7.174 | 196 | 6518 | 0.8892 ug/mL | 96 |
| 45) 2Clnaphthalen | 7.321 | 162 | 22687 | 1.0176 ug/mL | 95 |
| 46) 2Nitroaniline | 7.424 | 65 | 5311 | 1.0437 ug/mL | 96 |
| 47) Acnaphthylene | 7.688 | 152 | 36654 | 1.0272 ug/mL | 97 |
| 48) Dimethylphtha | 7.600 | 163 | 26111 | 1.0018 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.645 | 165 | 5423 | 0.9167 ug/mL | 96 |
| 50) Acenaphthene | 7.836 | 154 | 22394 | 1.0559 ug/mL | 98 |
| 51) 3Nitroaniline | 7.779 | 138 | 5062 | 1.0415 ug/mL | 96 |
| 53) Dibenzofuran | 7.981 | 168 | 32888 | 1.0739 ug/mL | 98 |
| 54) 24Dinitrotolu | 7.972 | 165 | 6239 | 0.8058 ug/mL | 88 |
| 55) 4-Nitrophenol | 7.929 | 65 | 2440 | 1.7835 ug/mL | 88 |
| 56) 2,3,5,6-Tetrachlorop | 8.049 | 232 | 2748 | 1.0630 ug/mL | 86 |
| 57) 2,3,4,6-Tetrachlorop | 8.083 | 232 | 4088 | 1.0279 ug/mL | 95 |
| 58) Fluorene | 8.251 | 166 | 25214 | 1.0770 ug/mL | 97 |
| 59) 4Clphlphlethr | 8.253 | 204 | 11901 | 1.0793 ug/mL | 99 |
| 60) Diethylphthal | 8.174 | 149 | 25781 | 0.9939 ug/mL | 99 |
| 61) 4Nitroaniline | 8.262 | 138 | 4210 | 1.0813 ug/mL | 84 |
| 64) 46Dinit2mylph | 8.285 | 198 | 899 | 2.6370 ug/mL# | 62 |
| 65) Ntrsdiphlam&Diphlam | 8.333 | 169 | 35515 | 2.1326 ug/mL | 98 |
| 66) Azobenz&12Diphlhyd | 8.358 | 182 | 12726 | 2.1431 ug/mL | 91 |
| 67) 4Brphlphlethr | 8.572 | 248 | 6209 | 1.0238 ug/mL | 98 |
| 68) Hexaclbenzene | 8.609 | 284 | 7130 | 1.0512 ug/mL | 95 |
| 70) Phenanthrene | 8.878 | 178 | 34586 | 1.0991 ug/mL | 96 |
| 71) Anthracene | 8.910 | 178 | 33705 | 1.0527 ug/mL | 97 |
| 72) Carbazole | 9.015 | 167 | 29866 | 1.0955 ug/mL | 94 |
| 73) Dinbtylphthal | 9.242 | 149 | 37108 | 0.9730 ug/mL | 99 |
| 74) Fluoranthene | 9.674 | 202 | 33844 | 1.0185 ug/mL | 96 |
| 76) Benzidine | 9.762 | 184 | 7258 | 0.9138 ug/mL | 95 |
| 77) Pyrene | 9.833 | 202 | 36790 | 1.0259 ug/mL | 94 |
| 79) Btylbzylphth | 10.282 | 149 | 15255 | 0.8604 ug/mL | 97 |
| 80) bis2Ethlhxlad | 10.342 | 129 | 13496 | 0.8303 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.714 | 252 | 8640 | 0.9286 ug/mL | 96 |
| 82) B[a]anthracen | 10.742 | 228 | 34801 | 1.0238 ug/mL | 98 |
| 83) Chrysene | 10.774 | 228 | 33150 | 1.0399 ug/mL | 93 |
| 84) bis2Ethlhxlph | 10.760 | 149 | 22345 | 0.8638 ug/mL | 99 |
| 85) Dinoctylphthl | 11.413 | 149 | 32227 | 1.0466 ug/mL | 99 |
| 87) B[b]fluoranth | 11.851 | 252 | 27498 | 0.9574 ug/mL | 96 |
| 88) B[k]fluoranth | 11.882 | 252 | 27968 | 0.9719 ug/mL | 97 |
| 89) Benz[a]pyrene | 12.254 | 252 | 23892 | 0.9046 ug/mL | 97 |
| 90) Indeno-pyrene | 13.624 | 276 | 26557 | 0.9091 ug/mL | 97 |
| 91) Dib[ah]anthr | 13.655 | 278 | 19828 | 0.8303 ug/mL | 91 |
| 92) B[ghi]perylen | 13.948 | 276 | 21583 | 0.9430 ug/mL | 89 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL1.D Vial: 10
Acq On : 9 Apr 2025 16:23 Operator: JJY
Sample : ICAL 1 ug/mL SVMS10291 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:58:51 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL2.D Vial: 9
Acq On : 9 Apr 2025 16:00 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:59:46 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M re-quanted with new ical
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.346 | 152 | 188449 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.037 | 136 | 884272 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.813 | 164 | 490449 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.864 | 188 | 716823 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.754 | 240 | 631494 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.339 | 264 | 651080 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.102 | 112 | 56876 | 12.54 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.54% | | | |
| 7) SURRPhenol-d5 | 3.926 | 99 | 67308 | 12.34 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 12.34% | | | |
| 22) SURRNitrbenzened5 | 5.028 | 82 | 59096 | 24.53 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 24.53% | | | |
| 44) SURR2Flbiphenyl | 7.227 | 172 | 151641 | 25.92 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 25.92% | | | |
| 62) SURR246Tribrphenl | 8.412 | 330 | 15388 | 11.72 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 11.72% | | | |
| 78) SURRTerphenyl-d14 | 9.935 | 244 | 152009 | 24.69 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 24.69% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.303 | 74 | 35933 | 4.9246 | ug/mL | 90 |
| 3) Pyridine | 2.329 | 79 | 64816 | 4.9714 | ug/mL | 99 |
| 5) Aniline | 3.980 | 93 | 85124 | 4.8940 | ug/mL | 100 |
| 6) bis2Clethletr | 4.048 | 93 | 57521 | 5.0254 | ug/mL | 98 |
| 8) Phenol | 3.940 | 94 | 69106 | 4.9454 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.105 | 128 | 62720 | 4.9838 | ug/mL | 97 |
| 10) 13Diclbenz | 4.281 | 146 | 68696 | 5.0119 | ug/mL | 99 |
| 11) 14Diclbenz | 4.366 | 146 | 70520 | 5.0274 | ug/mL | 94 |
| 12) 12Diclbenz | 4.542 | 146 | 66080 | 4.9881 | ug/mL | 96 |
| 13) Benzyl alcoho | 4.505 | 108 | 39386 | 4.8610 | ug/mL | 95 |
| 14) bis2clispreth | 4.684 | 45 | 106650 | 4.9216 | ug/mL | 99 |
| 15) 2Methylphenol | 4.647 | 107 | 48028 | 4.9288 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.801 | 100 | 29853 | 4.9072 | ug/mL | 99 |
| 17) Acetophenone | 4.838 | 105 | 86703 | 4.9193 | ug/mL | 98 |
| 18) Hexaclethane | 4.969 | 117 | 26313 | 4.9284 | ug/mL | 95 |
| 19) N-Ntrsdinprop | 4.846 | 70 | 42293 | 5.0082 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.846 | 107 | 63653 | 5.0395 | ug/mL | 88 |
| 23) Nitrobenzene | 5.054 | 77 | 57736 | 4.9594 | ug/mL | 99 |
| 24) Isophorone | 5.415 | 82 | 121717 | 4.9628 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.523 | 139 | 39030 | 5.0479 | ug/mL | 97 |
| 26) 24Dimthpheno | 5.616 | 122 | 60207 | 5.0661 | ug/mL | 96 |
| 27) bis2clethoxym | 5.756 | 93 | 77500 | 5.0715 | ug/mL | 97 |
| 28) 24Diclphenol | 5.864 | 162 | 55837 | 5.0202 | ug/mL | 98 |
| 29) 124Triclbenz | 5.972 | 180 | 63445 | 5.1017 | ug/mL | 99 |
| 30) Benzoic acid | 5.710 | 122 | 17318 | 5.2514 | ug/mL | 81 |
| 31) Naphthalene | 6.062 | 128 | 210412 | 5.1594 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.148 | 127 | 77090 | 4.8442 | ug/mL | 95 |
| 33) 26Diclphenol | 6.153 | 162 | 55616 | 5.0780 | ug/mL | 98 |
| 34) Hexaclprop | 6.179 | 213 | 39490 | 4.9421 | ug/mL | 98 |
| 35) Hexaclbutdien | 6.239 | 225 | 36330 | 4.9889 | ug/mL | 100 |
| 36) 4Cl3methylphe | 6.725 | 107 | 54981 | 4.9013 | ug/mL | 94 |
| 37) 2Methylnaphth | 6.855 | 142 | 126462 | 5.1307 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.952 | 142 | 132816 | 5.2103 | ug/mL | 97 |
| 40) Hxclcycpentdi | 7.020 | 237 | 37584 | 4.9434 | ug/mL | 100 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL2.D Vial: 9
Acq On : 9 Apr 2025 16:00 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:59:46 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

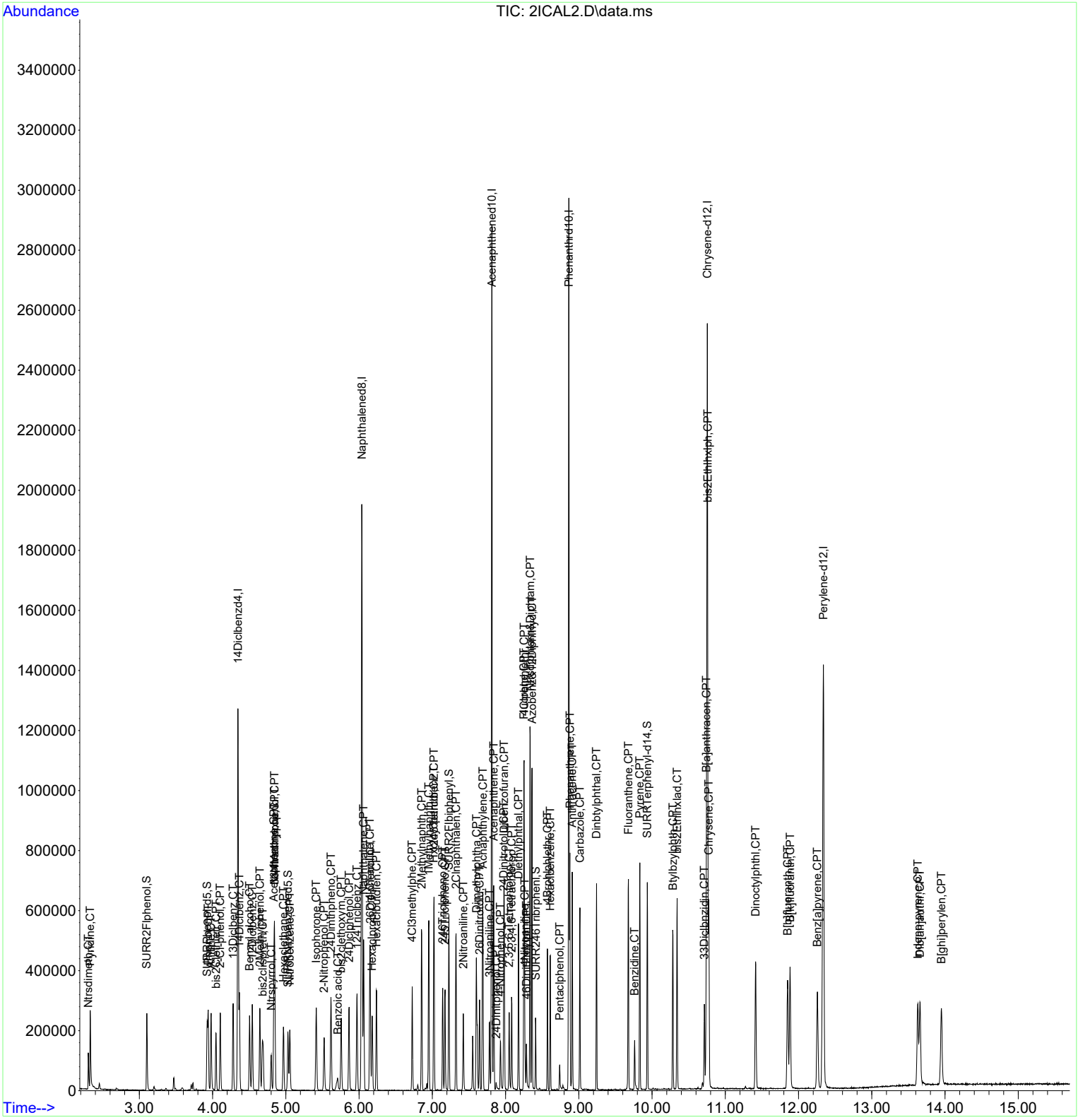
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.023 | 216 | 57150 | 5.1133 ug/mL | 98 |
| 42) 246Triclpheno | 7.142 | 196 | 36272 | 4.8353 ug/mL | 99 |
| 43) 245Triclpheno | 7.173 | 196 | 40082 | 4.9159 ug/mL | 98 |
| 45) 2Clnaphthalen | 7.324 | 162 | 126311 | 5.0936 ug/mL | 98 |
| 46) 2Nitroaniline | 7.424 | 65 | 35067 | 4.8332 ug/mL | 96 |
| 47) Acnaphthylene | 7.691 | 152 | 207243 | 5.2211 ug/mL | 99 |
| 48) Dimethylphtha | 7.603 | 163 | 148642 | 5.1269 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.645 | 165 | 32332 | 4.9136 ug/mL | 92 |
| 50) Acenaphthene | 7.838 | 154 | 119075 | 5.0477 ug/mL | 99 |
| 51) 3Nitroaniline | 7.782 | 138 | 32860 | 4.9095 ug/mL | 91 |
| 52) 24Dinitphenol | 7.872 | 184 | 3815 | 5.4551 ug/mL | 86 |
| 53) Dibenzofuran | 7.980 | 168 | 178235 | 5.2320 ug/mL | 95 |
| 54) 24Dinitrotolu | 7.975 | 165 | 42880 | 4.9790 ug/mL | 92 |
| 55) 4-Nitrophenol | 7.929 | 65 | 20364 | 5.1833 ug/mL | 93 |
| 56) 2,3,5,6-Tetrachlorop | 8.049 | 232 | 24982 | 4.7475 ug/mL | 98 |
| 57) 2,3,4,6-Tetrachlorop | 8.083 | 232 | 29743 | 4.9321 ug/mL | 95 |
| 58) Fluorene | 8.250 | 166 | 136937 | 5.2583 ug/mL | 98 |
| 59) 4Clphlphlethr | 8.253 | 204 | 64490 | 5.2581 ug/mL | 96 |
| 60) Diethylphthal | 8.177 | 149 | 146189 | 5.0669 ug/mL | 99 |
| 61) 4Nitroaniline | 8.262 | 138 | 27298 | 4.7301 ug/mL | 96 |
| 64) 46Dinit2mylph | 8.284 | 198 | 13556 | 5.2180 ug/mL | 97 |
| 65) Ntrsdiphlam&Diphlam | 8.336 | 169 | 197315 | 10.6763 ug/mL | 100 |
| 66) Azobenz&12Diphlhyd | 8.361 | 182 | 69265 | 10.5102 ug/mL# | 85 |
| 67) 4Brphlphlethr | 8.571 | 248 | 34080 | 5.0635 ug/mL | 93 |
| 68) Hexaclbenzene | 8.611 | 284 | 38686 | 5.1392 ug/mL | 98 |
| 69) Pentaclphenol | 8.739 | 266 | 6806 | 5.2660 ug/mL | 97 |
| 70) Phenanthrene | 8.878 | 178 | 182690 | 5.2312 ug/mL | 99 |
| 71) Anthracene | 8.910 | 178 | 184120 | 5.1819 ug/mL | 99 |
| 72) Carbazole | 9.015 | 167 | 162620 | 5.3748 ug/mL | 97 |
| 73) Dinbtylphthal | 9.242 | 149 | 218155 | 5.1542 ug/mL | 98 |
| 74) Fluoranthene | 9.677 | 202 | 191736 | 5.1993 ug/mL | 98 |
| 76) Benzidine | 9.762 | 184 | 43533 | 5.7439 ug/mL | 96 |
| 77) Pyrene | 9.833 | 202 | 201227 | 5.0167 ug/mL | 99 |
| 79) Btylbzylphth | 10.285 | 149 | 94301 | 4.7550 ug/mL | 90 |
| 80) bis2Ethlhxlad | 10.342 | 129 | 88638 | 4.8753 ug/mL | 98 |
| 81) 33Diclbnzidin | 10.714 | 252 | 48411 | 5.5086 ug/mL | 99 |
| 82) B[a]anthracen | 10.742 | 228 | 187193 | 4.9236 ug/mL | 99 |
| 83) Chrysene | 10.774 | 228 | 177688 | 4.9833 ug/mL | 98 |
| 84) bis2Ethlhxlph | 10.759 | 149 | 141630 | 4.8948 ug/mL | 99 |
| 85) Dinoctylphthl | 11.413 | 149 | 224543 | 4.8468 ug/mL | 99 |
| 87) B[b]fluoranth | 11.850 | 252 | 167212 | 4.8483 ug/mL | 96 |
| 88) B[k]fluoranth | 11.885 | 252 | 176149 | 5.0977 ug/mL | 100 |
| 89) Benz[a]pyrene | 12.257 | 252 | 155068 | 4.8890 ug/mL | 95 |
| 90) Indeno-pyrene | 13.629 | 276 | 172297 | 4.9114 ug/mL | 99 |
| 91) Dib[ah]anthr | 13.658 | 278 | 141979 | 4.9511 ug/mL | 98 |
| 92) B[ghi]perylen | 13.950 | 276 | 135770 | 4.9398 ug/mL | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL2.D Vial: 9
Acq On : 9 Apr 2025 16:00 Operator: JJY
Sample : ICAL 5 ug/mL SVMS10292 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 16:59:46 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL4.D Vial: 7
Acq On : 9 Apr 2025 15:14 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:00:31 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M re-quanted with new ical
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.349 | 152 | 183436 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.040 | 136 | 879740 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.816 | 164 | 482811 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.864 | 188 | 711747 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.760 | 240 | 585519 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.342 | 264 | 610485 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.105 | 112 | 228163 | 51.66 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.66% | | | |
| 7) SURRPhenol-d5 | 3.932 | 99 | 269438 | 50.76 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.76% | | | |
| 22) SURRNitrbenzened5 | 5.037 | 82 | 244101 | 101.83 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.83% | | | |
| 44) SURR2Flbiphenyl | 7.230 | 172 | 586113 | 101.75 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.75% | | | |
| 62) SURR246Tribrphenl | 8.415 | 330 | 66997 | 51.84 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.84% | | | |
| 78) SURRTerphenyl-d14 | 9.938 | 244 | 597481 | 104.65 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 104.65% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.303 | 74 | 146088 | 20.5683 | ug/mL | 100 |
| 3) Pyridine | 2.326 | 79 | 253772 | 19.9961 | ug/mL | 100 |
| 5) Aniline | 3.986 | 93 | 348571 | 20.5878 | ug/mL | 100 |
| 6) bis2Clethletr | 4.051 | 93 | 225031 | 20.1974 | ug/mL | 100 |
| 8) Phenol | 3.946 | 94 | 276436 | 20.3232 | ug/mL | 100 |
| 9) 2-Cl-phenol | 4.108 | 128 | 250746 | 20.4690 | ug/mL | 100 |
| 10) 13Diclbenz | 4.284 | 146 | 271628 | 20.3590 | ug/mL | 100 |
| 11) 14Diclbenz | 4.369 | 146 | 273260 | 20.0134 | ug/mL | 100 |
| 12) 12Diclbenz | 4.545 | 146 | 261296 | 20.2631 | ug/mL | 100 |
| 13) Benzyl alcoho | 4.511 | 108 | 165534 | 20.9885 | ug/mL | 100 |
| 14) bis2clispreth | 4.685 | 45 | 422124 | 20.0123 | ug/mL | 100 |
| 15) 2Methylphenol | 4.650 | 107 | 195575 | 20.6189 | ug/mL | 100 |
| 16) Ntrspyrrol | 4.818 | 100 | 123365 | 20.8326 | ug/mL | 100 |
| 17) Acetophenone | 4.846 | 105 | 348680 | 20.3240 | ug/mL | 100 |
| 18) Hexaclethane | 4.971 | 117 | 104150 | 20.0402 | ug/mL | 100 |
| 19) N-Ntrsdinprop | 4.858 | 70 | 168871 | 20.5438 | ug/mL | 100 |
| 20) 3&4Methylphenol | 4.858 | 107 | 253757 | 20.6395 | ug/mL | 100 |
| 23) Nitrobenzene | 5.062 | 77 | 233309 | 20.1438 | ug/mL | 100 |
| 24) Isophorone | 5.426 | 82 | 500947 | 20.5303 | ug/mL | 100 |
| 25) 2-Nitrophenol | 5.528 | 139 | 156245 | 20.3119 | ug/mL | 100 |
| 26) 24Dimthpheno | 5.625 | 122 | 239663 | 20.2704 | ug/mL | 100 |
| 27) bis2clethoxym | 5.761 | 93 | 308547 | 20.2949 | ug/mL | 100 |
| 28) 24Diclphenol | 5.869 | 162 | 226609 | 20.4790 | ug/mL | 100 |
| 29) 124Triclbenz | 5.975 | 180 | 246999 | 19.9637 | ug/mL | 100 |
| 30) Benzoic acid | 5.781 | 122 | 127481 | 20.0018 | ug/mL | 100 |
| 31) Naphthalene | 6.068 | 128 | 811404 | 19.9987 | ug/mL | 100 |
| 32) 4-Cl-aniline | 6.154 | 127 | 326535 | 20.6246 | ug/mL | 100 |
| 33) 26Diclphenol | 6.159 | 162 | 221598 | 20.3370 | ug/mL | 100 |
| 34) Hexaclprop | 6.182 | 213 | 166585 | 20.9553 | ug/mL | 100 |
| 35) Hexaclbutdien | 6.239 | 225 | 145205 | 20.0423 | ug/mL | 100 |
| 36) 4Cl3methylphe | 6.728 | 107 | 232713 | 20.8523 | ug/mL | 100 |
| 37) 2Methylnaphth | 6.855 | 142 | 495208 | 20.1948 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.955 | 142 | 514278 | 20.2787 | ug/mL | 100 |
| 40) Hxclcycpentdi | 7.023 | 237 | 162596 | 21.7244 | ug/mL | 100 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL4.D Vial: 7
Acq On : 9 Apr 2025 15:14 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:00:31 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

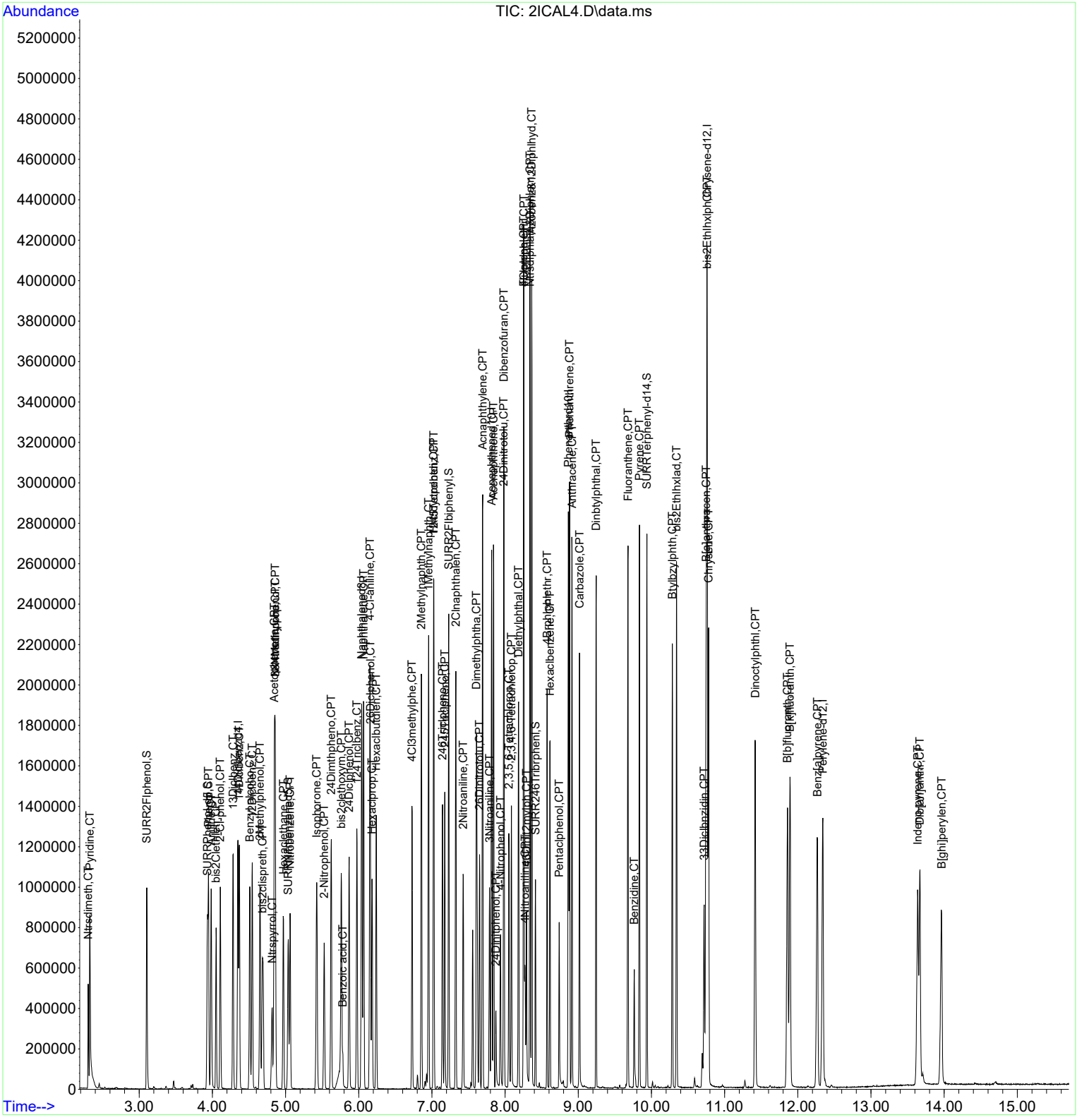
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.026 | 216 | 226214 | 20.5599 | ug/mL | 100 |
| 42) 246Triclpheno | 7.145 | 196 | 154931 | 20.9800 | ug/mL | 100 |
| 43) 245Triclpheno | 7.176 | 196 | 166711 | 20.7700 | ug/mL | 100 |
| 45) 2Clnaphthalen | 7.327 | 162 | 499115 | 20.4455 | ug/mL | 100 |
| 46) 2Nitroaniline | 7.426 | 65 | 153435 | 20.2737 | ug/mL | 100 |
| 47) Acnaphthylene | 7.694 | 152 | 799954 | 20.4722 | ug/mL | 100 |
| 48) Dimethylphtha | 7.608 | 163 | 588560 | 20.6215 | ug/mL | 100 |
| 49) 26Dinitrotolu | 7.651 | 165 | 135034 | 20.8464 | ug/mL | 100 |
| 50) Acenaphthene | 7.841 | 154 | 473380 | 20.3843 | ug/mL | 100 |
| 51) 3Nitroaniline | 7.787 | 138 | 142181 | 20.3729 | ug/mL | 100 |
| 52) 24Dinitphenol | 7.875 | 184 | 49519 | 20.6940 | ug/mL | 100 |
| 53) Dibenzofuran | 7.983 | 168 | 682619 | 20.3550 | ug/mL | 100 |
| 54) 24Dinitrotolu | 7.981 | 165 | 181672 | 21.4286 | ug/mL | 100 |
| 55) 4-Nitrophenol | 7.938 | 65 | 98424 | 20.6059 | ug/mL | 100 |
| 56) 2,3,5,6-Tetrachlorop | 8.052 | 232 | 121732 | 20.6788 | ug/mL | 100 |
| 57) 2,3,4,6-Tetrachlorop | 8.086 | 232 | 128124 | 20.4330 | ug/mL | 100 |
| 58) Fluorene | 8.253 | 166 | 527261 | 20.5668 | ug/mL | 100 |
| 59) 4Clphlphlethr | 8.256 | 204 | 247088 | 20.4647 | ug/mL | 100 |
| 60) Diethylphthal | 8.185 | 149 | 582956 | 20.5250 | ug/mL | 100 |
| 61) 4Nitroaniline | 8.273 | 138 | 122980 | 20.0898 | ug/mL | 100 |
| 64) 46Dinit2mylph | 8.293 | 198 | 84199 | 19.9719 | ug/mL | 100 |
| 65) Ntrsdiphlam&Diphlam | 8.341 | 169 | 744472 | 40.5691 | ug/mL | 100 |
| 66) Azobenz&12Diphlhyd | 8.364 | 182 | 264772 | 40.4628 | ug/mL | 100 |
| 67) 4Brphlphlethr | 8.574 | 248 | 135100 | 20.2160 | ug/mL | 100 |
| 68) Hexaclbenzene | 8.614 | 284 | 148405 | 19.8553 | ug/mL | 100 |
| 69) Pentaclphenol | 8.739 | 266 | 60663 | 20.1039 | ug/mL | 100 |
| 70) Phenanthrene | 8.881 | 178 | 700268 | 20.1946 | ug/mL | 100 |
| 71) Anthracene | 8.915 | 178 | 715591 | 20.2832 | ug/mL | 100 |
| 72) Carbazole | 9.018 | 167 | 577526 | 19.2240 | ug/mL | 100 |
| 73) Dinbtylphthal | 9.245 | 149 | 871347 | 20.7335 | ug/mL | 100 |
| 74) Fluoranthene | 9.680 | 202 | 743132 | 20.2951 | ug/mL | 100 |
| 76) Benzidine | 9.765 | 184 | 155530 | 19.3651 | ug/mL | 100 |
| 77) Pyrene | 9.836 | 202 | 767349 | 20.6326 | ug/mL | 100 |
| 79) Btylbzylphth | 10.285 | 149 | 386628 | 21.0258 | ug/mL | 100 |
| 80) bis2Ethlhxlad | 10.345 | 129 | 364725 | 21.6358 | ug/mL | 100 |
| 81) 33Diclbnzidin | 10.720 | 252 | 169451 | 19.3584 | ug/mL | 100 |
| 82) B[a]anthracen | 10.748 | 228 | 713102 | 20.2289 | ug/mL | 100 |
| 83) Chrysene | 10.782 | 228 | 658247 | 19.9102 | ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.762 | 149 | 560017 | 20.8742 | ug/mL | 100 |
| 85) Dinoctylphthl | 11.419 | 149 | 936912 | 20.2222 | ug/mL | 100 |
| 87) B[b]fluoranth | 11.859 | 252 | 682258 | 21.0974 | ug/mL | 100 |
| 88) B[k]fluoranth | 11.893 | 252 | 664201 | 20.4998 | ug/mL | 100 |
| 89) Benz[a]pyrene | 12.268 | 252 | 620343 | 20.8590 | ug/mL | 100 |
| 90) Indeno-pyrene | 13.638 | 276 | 627898 | 19.0888 | ug/mL | 100 |
| 91) Dib[ah]anthr | 13.669 | 278 | 522508 | 19.4327 | ug/mL | 100 |
| 92) B[ghi]perylen | 13.965 | 276 | 483141 | 18.7473 | ug/mL | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040925\2ICAL4.D Vial: 7
Acq On : 9 Apr 2025 15:14 Operator: JJY
Sample : ICAL 20 ug/mL SVMS10294 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 09 17:00:31 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Apr 09 16:53:33 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

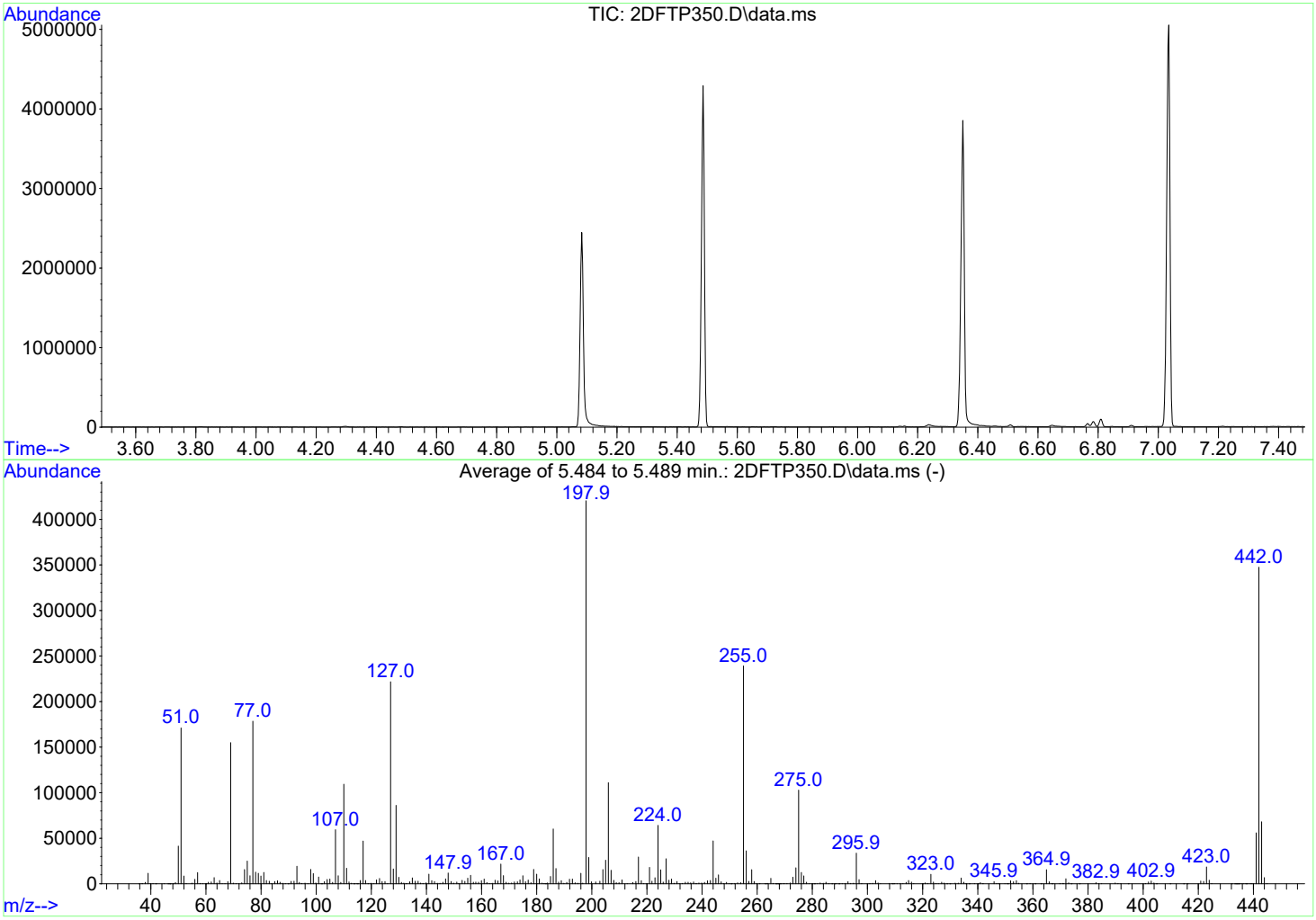


# SEMI - VOLATILE ORGANIC ANALYSIS
# CONTINUING CALIBRATION
# DOCUMENTS

Data Path : C:\INSTARCH\DATA\2S040825\
Data File : 2DFTP350.D
Acq On : 8 Apr 2025 9:42
Operator : JJY
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Tue Apr 08 09:55:52 2025



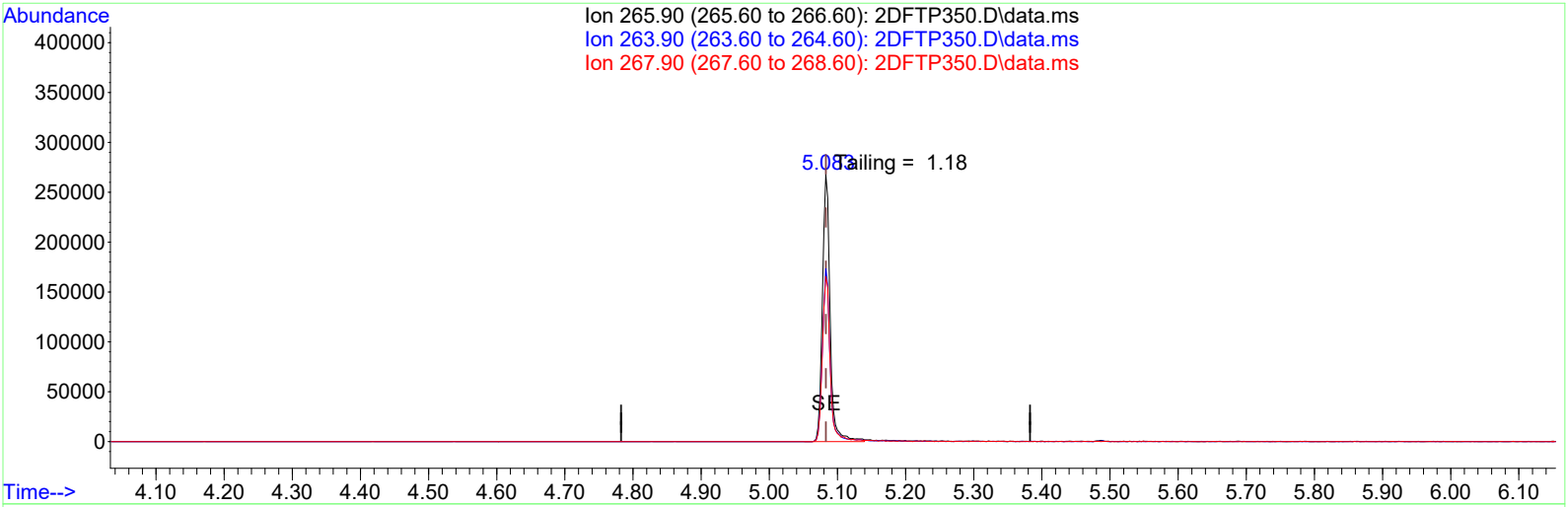

AutoFind: Scans 950, 951, 952; Background Corrected with Scan 941

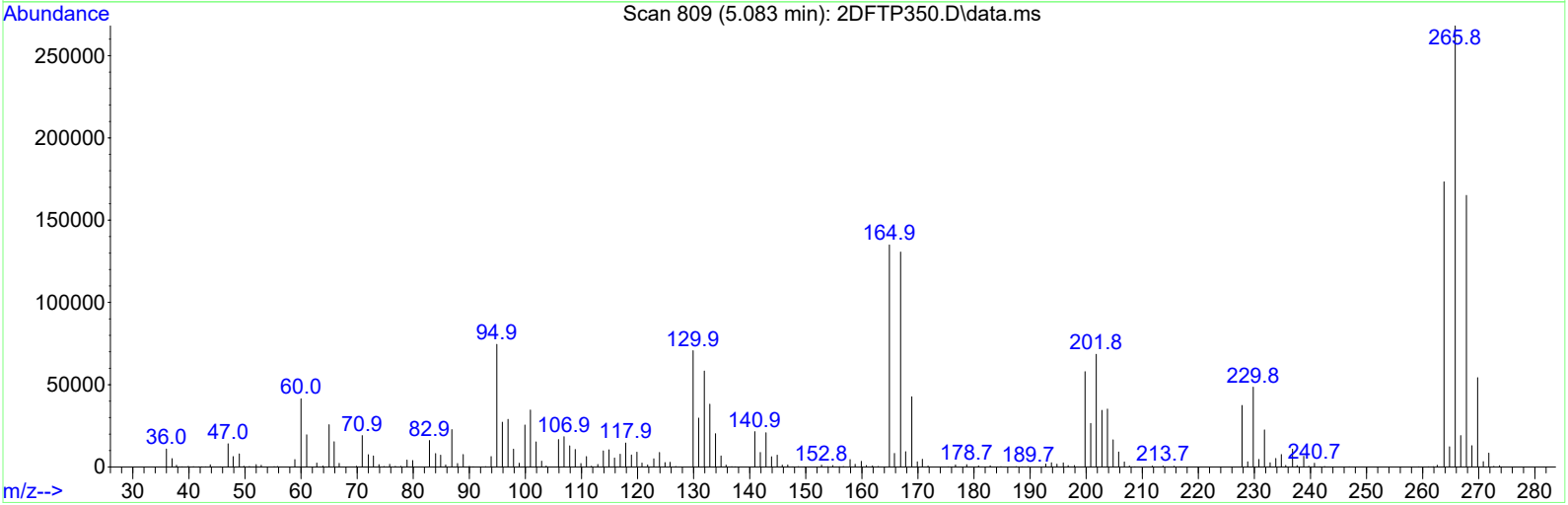
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 40.7 | 171154 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 2328 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 776 | PASS |
| 127 | 198 | 10 | 80 | 52.7 | 221739 | PASS |
| 197 | 198 | 0.00 | 2 | 0.2 | 790 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 420501 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 28880 | PASS |
| 275 | 198 | 10 | 60 | 24.4 | 102795 | PASS |
| 365 | 198 | 1 | 100 | 3.7 | 15488 | PASS |
| 441 | 442 | 0.01 | 24 | 16.1 | 55883 | PASS |
| 442 | 198 | 50 | 100 | 82.6 | 347541 | PASS |
| 443 | 442 | 15 | 24 | 19.6 | 68053 | PASS |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S040825\2DFTP350.D  Vial: 1
Acq On : 8 Apr 2025 9:42  Operator: JJY
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 09:56:00 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Tue Apr 08 09:55:52 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP350.D\data.ms

**(1) Pentachlorophenol**

**5.083min (-0.000) 27.04 ng**

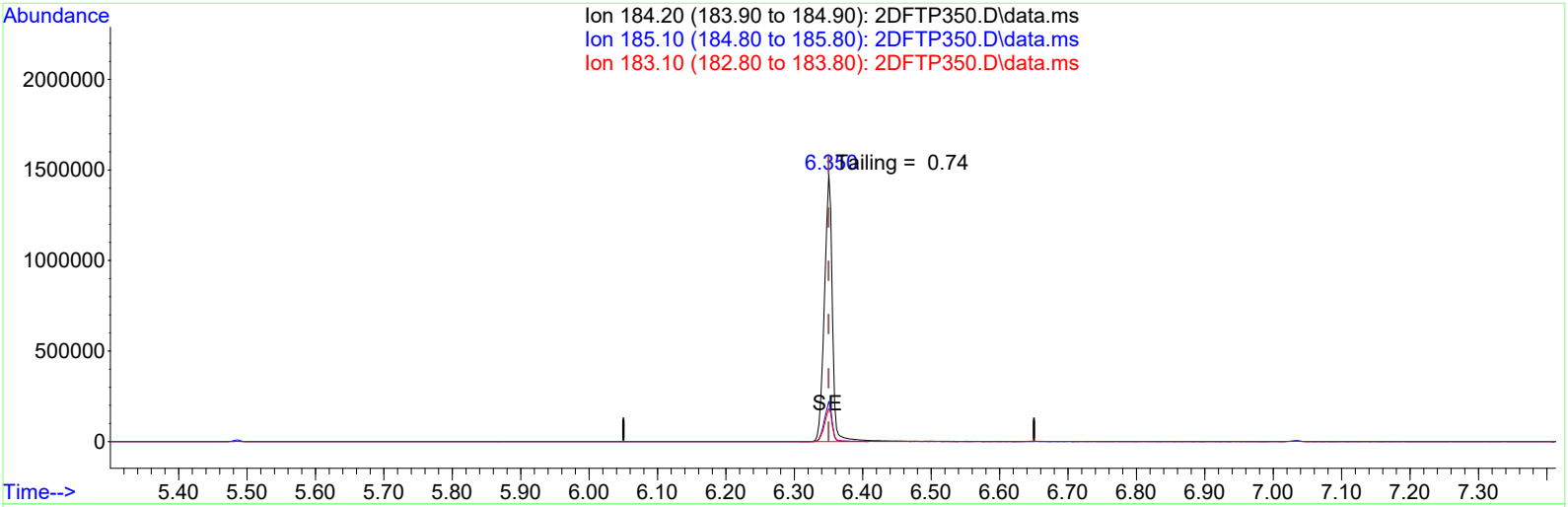
**response 212166**

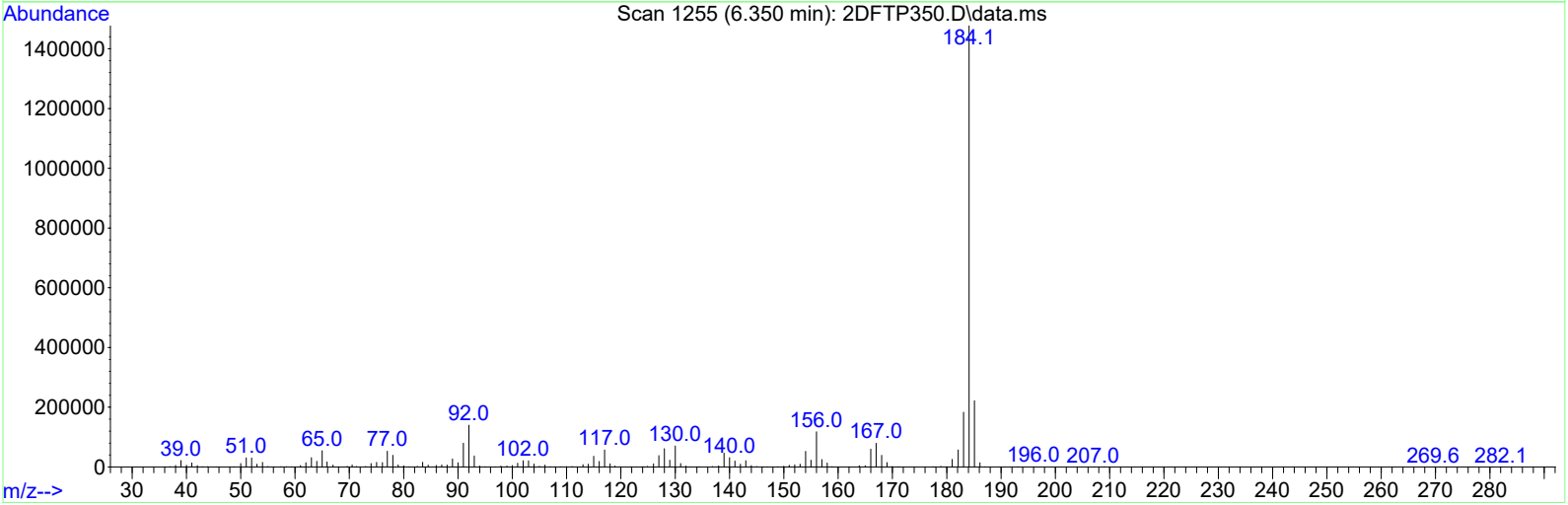
| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 263.90 | 62.00 | 63.45 |
| 267.90 | 60.10 | 62.51 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S040825\2DFTP350.D  Vial: 1
Acq On : 8 Apr 2025 9:42  Operator: JJY
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 09:56:00 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Tue Apr 08 09:55:52 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP350.D\data.ms

**(3) Benzidine**

**6.350min ( 0.000) 45.65 ng**

**response 1183682**

| Ion | Exp% | Act% |
|---|---|---|
| 184.20 | 100.00 | 100.00 |
| 185.10 | 15.30 | 14.66 |
| 183.10 | 11.70 | 12.03 |
| 0.00 | 0.00 | 0.00 |

| | |
|---|---|
| Data File Name | 2DFTP350.D |
| Vial Number | 1 |
| Data File Path | C:\INSTARCH\DATA\2S040825\ |
| Operator | JJY |
| Date Acquired | 4/8/2025 9:42 |
| Instrument Name | SVMS2 |
| Sample Name | DFTPP TUNE SVMS10212 |
| Sample Multiplier | 1 |
| Misc Info | SVMS2, 25 ng DFTPP |
| Calibration Title | DFTPP TUNE |
| Last Calibration Update | Tue Apr 08 09:55:52 2025 |

| # | Name | Ret Time | Target Response |
|---|---|---|---|
| 1) | Pentachlorophenol | 5.08 | 212166 |
| 2) | DFTPP | 5.49 | 324044 |
| 3) | Benzidine | 6.35 | 1183682 |
| 4) | DDE | 6.51 | 1938 |
| 5) | DDD | 6.81 | 20330 |
| 6) | DDT | 7.03 | 708310 |

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \quad 3.05\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040825\2CCV398.D Vial: 2
Acq On : 8 Apr 2025 9:57 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 10:14:06 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 20.000 | 20.000 | 0.0 | 103 | 0.00 |
| 2 | CT | Ntrsdimeth | 20.000 | 20.614 | -3.1 | 105 | 0.00 |
| 3 | CT | Pyridine | 20.000 | 20.209 | -1.0 | 104 | 0.00 |
| 4 | S | SURR2Flphenol | 50.000 | 51.730 | -3.5 | 105 | 0.00 |
| 5 | CT | Aniline | 20.000 | 20.693 | -3.5 | 105 | 0.00 |
| 6 | CPT | bis2Clethletr | 20.000 | 20.529 | -2.6 | 104 | 0.00 |
| 7 | S | SURRPhenol-d5 | 50.000 | 51.775 | -3.5 | 105 | 0.00 |
| 8 | CPT | Phenol | 20.000 | 20.764 | -3.8 | 105 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 20.000 | 20.590 | -2.9 | 105 | 0.00 |
| 10 | CT | 13Diclbenz | 20.000 | 20.374 | -1.9 | 105 | 0.00 |
| 11 | CT | 14Diclbenz | 20.000 | 20.313 | -1.6 | 105 | 0.00 |
| 12 | CT | 12Diclbenz | 20.000 | 20.476 | -2.4 | 106 | 0.00 |
| 13 | CT | Benzyl alcoho | 20.000 | 20.436 | -2.2 | 101 | 0.00 |
| 14 | CPT | bis2clispreth | 20.000 | 19.776 | 1.1 | 102 | 0.00 |
| 15 | CPT | 2Methylphenol | 20.000 | 20.436 | -2.2 | 103 | 0.00 |
| 16 | CT | Ntrspyrrol | 20.000 | 21.074 | -5.4 | 104 | 0.00 |
| 17 | CPT | Acetophenone | 20.000 | 20.590 | -2.9 | 104 | 0.00 |
| 18 | CPT | Hexaclethane | 20.000 | 20.237 | -1.2 | 105 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 20.000 | 20.083 | -0.4 | 105 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 20.000 | 20.526 | -2.6 | 103 | 0.00 |
| 21 | I | Naphthalened8 | 20.000 | 20.000 | 0.0 | 102 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 100.000 | 102.585 | -2.6 | 103 | 0.00 |
| 23 | CPT | Nitrobenzene | 20.000 | 20.286 | -1.4 | 102 | 0.00 |
| 24 | CPT | Isophorone | 20.000 | 20.558 | -2.8 | 102 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 20.000 | 21.314 | -6.6 | 99 | 0.00 |
| 26 | CPT | 24Dimthpheno | 20.000 | 20.473 | -2.4 | 103 | 0.00 |
| 27 | CPT | bis2clethoxym | 20.000 | 20.509 | -2.5 | 103 | 0.00 |
| 28 | CPT | 24Diclphenol | 20.000 | 20.612 | -3.1 | 101 | 0.00 |
| 29 | CT | 124Triclbenz | 20.000 | 20.270 | -1.3 | 103 | 0.00 |
| 30 | CT | Benzoic acid | 20.000 | 20.771 | -3.9 | 109 | 0.00 |
| 31 | CPT | Naphthalene | 20.000 | 20.415 | -2.1 | 104 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 20.000 | 20.292 | -1.5 | 106 | 0.00 |
| 33 | CT | 26Diclphenol | 20.000 | 20.747 | -3.7 | 104 | 0.00 |
| 34 | CT | Hexaclprop | 20.000 | 21.013 | -5.1 | 104 | 0.00 |
| 35 | CPT | Hexaclbutdien | 20.000 | 20.257 | -1.3 | 103 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 20.000 | 20.654 | -3.3 | 102 | 0.00 |
| 37 | CPT | 2Methylnaphth | 20.000 | 20.512 | -2.6 | 103 | 0.00 |
| 38 | CT | 1Methylnaphth | 20.000 | 20.149 | -0.7 | 101 | 0.00 |
| 39 | I | Acenaphthened10 | 20.000 | 20.000 | 0.0 | 102 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 20.000 | 21.085 | -5.4 | 103 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 20.000 | 20.109 | -0.5 | 103 | 0.00 |
| 42 | CPT | 246Triclpheno | 20.000 | 20.728 | -3.6 | 103 | 0.00 |
| 43 | CPT | 245Triclpheno | 20.000 | 20.559 | -2.8 | 103 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 100.000 | 99.814 | 0.2 | 102 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 20.000 | 20.354 | -1.8 | 103 | 0.00 |
| 46 | CPT | 2Nitroaniline | 20.000 | 20.278 | -1.4 | 102 | 0.00 |
| 47 | CPT | Acnaphthylene | 20.000 | 20.111 | -0.6 | 101 | 0.00 |
| 48 | CPT | Dimethylphtha | 20.000 | 20.338 | -1.7 | 102 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 20.000 | 20.308 | -1.5 | 101 | 0.00 |
| 50 | CPT | Acenaphthene | 20.000 | 20.228 | -1.1 | 102 | 0.00 |
| 51 | CPT | 3Nitroaniline | 20.000 | 19.428 | 2.9 | 103 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040825\2CCV398.D Vial: 2
Acq On : 8 Apr 2025 9:57 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 10:14:06 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 20.000 | 20.452 | -2.3 | 108 | 0.00 |
| 53 | CPT | Dibenzofuran | 20.000 | 20.331 | -1.7 | 102 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 20.000 | 21.026 | -5.1 | 103 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 20.000 | 20.031 | -0.2 | 104 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 20.000 | 20.459 | -2.3 | 103 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 20.000 | 20.182 | -0.9 | 102 | 0.00 |
| 58 | CPT | Fluorene | 20.000 | 20.231 | -1.2 | 102 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 20.000 | 20.039 | -0.2 | 102 | 0.00 |
| 60 | CPT | Diethylphthal | 20.000 | 20.200 | -1.0 | 102 | 0.00 |
| 61 | CPT | 4Nitroaniline | 20.000 | 19.242 | 3.8 | 100 | 0.00 |
| 62 | S | SURR246Tribrphenl | 50.000 | 51.752 | -3.5 | 103 | 0.00 |
| 63 | I | Phenanthrd10 | 20.000 | 20.000 | 0.0 | 102 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 20.000 | 20.241 | -1.2 | 104 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 40.000 | 40.530 | -1.3 | 102 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 40.000 | 40.386 | -1.0 | 101 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 20.000 | 20.359 | -1.8 | 103 | 0.00 |
| 68 | CPT | Hexaclbenzene | 20.000 | 19.770 | 1.2 | 102 | 0.00 |
| 69 | CPT | Pentaclphenol | 20.000 | 21.237 | -6.2 | 108 | 0.00 |
| 70 | CPT | Phenanthrene | 20.000 | 20.255 | -1.3 | 101 | 0.00 |
| 71 | CPT | Anthracene | 20.000 | 20.555 | -2.8 | 101 | 0.00 |
| 72 | CPT | Carbazole | 20.000 | 19.320 | 3.4 | 100 | 0.00 |
| 73 | CPT | Dinbtylphthal | 20.000 | 20.829 | -4.1 | 101 | 0.00 |
| 74 | CPT | Fluoranthene | 20.000 | 20.495 | -2.5 | 101 | 0.00 |
| 75 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 103 | 0.00 |
| 76 | CT | Benzidine | 20.000 | 18.322 | 8.4 | 98 | 0.00 |
| 77 | CPT | Pyrene | 20.000 | 20.179 | -0.9 | 102 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 100.000 | 100.749 | -0.7 | 102 | 0.00 |
| 79 | CPT | Btylbzylphth | 20.000 | 19.985 | 0.1 | 101 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 20.000 | 19.892 | 0.5 | 100 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 20.000 | 19.522 | 2.4 | 109 | 0.00 |
| 82 | CPT | B[a]anthracen | 20.000 | 19.899 | 0.5 | 102 | 0.00 |
| 83 | CPT | Chrysene | 20.000 | 19.775 | 1.1 | 101 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 20.000 | 20.622 | -3.1 | 100 | 0.00 |
| 85 | CPT | Dinoctylphthl | 20.000 | 20.110 | -0.5 | 102 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 104 | 0.00 |
| 87 | CPT | B[b]fluoranth | 20.000 | 20.112 | -0.6 | 100 | 0.00 |
| 88 | CPT | B[k]fluoranth | 20.000 | 20.787 | -3.9 | 105 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 20.000 | 20.519 | -2.6 | 104 | 0.00 |
| 90 | CPT | Indeno-pyrene | 20.000 | 20.661 | -3.3 | 107 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 20.000 | 20.975 | -4.9 | 107 | 0.00 |
| 92 | CPT | B[ghi]perylen | 20.000 | 20.768 | -3.8 | 109 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040825\2CCV398.D Vial: 2
Acq On : 8 Apr 2025 9:57 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 10:14:06 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 2 | CT | Ntrsdimeth | 0.793 | 0.817 | -3.0 | 105 | 0.00 |
| 3 | CT | Pyridine | 1.403 | 1.418 | -1.1 | 104 | 0.00 |
| 4 | S | SURR2Flphenol | 0.492 | 0.509 | -3.5 | 105 | 0.00 |
| 5 | CT | Aniline | 1.874 | 1.939 | -3.5 | 105 | 0.00 |
| 6 | CPT | bis2Clethletr | 1.234 | 1.267 | -2.7 | 104 | 0.00 |
| 7 | S | SURRPhenol-d5 | 0.589 | 0.610 | -3.6 | 105 | 0.00 |
| 8 | CPT | Phenol | 1.495 | 1.552 | -3.8 | 105 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 1.341 | 1.380 | -2.9 | 105 | 0.00 |
| 10 | CT | 13Diclbenz | 1.475 | 1.502 | -1.8 | 105 | 0.00 |
| 11 | CT | 14Diclbenz | 1.493 | 1.517 | -1.6 | 105 | 0.00 |
| 12 | CT | 12Diclbenz | 1.410 | 1.443 | -2.3 | 106 | 0.00 |
| 13 | CT | Benzyl alcoho | 0.872 | 0.891 | -2.2 | 101 | 0.00 |
| 14 | CPT | bis2clispreth | 2.378 | 2.351 | 1.1 | 102 | 0.00 |
| 15 | CPT | 2Methylphenol | 1.049 | 1.072 | -2.2 | 103 | 0.00 |
| 16 | CT | Ntrspyrrol | 0.655 | 0.690 | -5.3 | 104 | 0.00 |
| 17 | CPT | Acetophenone | 1.869 | 1.924 | -2.9 | 104 | 0.00 |
| 18 | CPT | Hexaclethane | 0.571 | 0.578 | -1.2 | 105 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 0.921 | 0.924 | -0.3 | 105 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 1.350 | 1.386 | -2.7 | 103 | 0.00 |
| 21 | I | Naphthalened8 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 0.054 | 0.055 | -1.9 | 103 | 0.00 |
| 23 | CPT | Nitrobenzene | 0.264 | 0.268 | -1.5 | 102 | 0.00 |
| 24 | CPT | Isophorone | 0.561 | 0.577 | -2.9 | 102 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 0.172 | 0.183 | -6.4 | 99 | 0.00 |
| 26 | CPT | 24Dimthpheno | 0.274 | 0.281 | -2.6 | 103 | 0.00 |
| 27 | CPT | bis2clethoxym | 0.347 | 0.356 | -2.6 | 103 | 0.00 |
| 28 | CPT | 24Diclphenol | 0.249 | 0.257 | -3.2 | 101 | 0.00 |
| 29 | CT | 124Triclbenz | 0.280 | 0.284 | -1.4 | 103 | 0.00 |
| 30 | CT | Benzoic acid | 0.134 | 0.149 | -11.2 | 109 | 0.00 |
| 31 | CPT | Naphthalene | 0.925 | 0.945 | -2.2 | 104 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 0.352 | 0.358 | -1.7 | 106 | 0.00 |
| 33 | CT | 26Diclphenol | 0.247 | 0.256 | -3.6 | 104 | 0.00 |
| 34 | CT | Hexaclprop | 0.187 | 0.197 | -5.3 | 104 | 0.00 |
| 35 | CPT | Hexaclbutdien | 0.166 | 0.168 | -1.2 | 103 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 0.253 | 0.261 | -3.2 | 102 | 0.00 |
| 37 | CPT | 2Methylnaphth | 0.559 | 0.573 | -2.5 | 103 | 0.00 |
| 38 | CT | 1Methylnaphth | 0.584 | 0.588 | -0.7 | 101 | 0.00 |
| 39 | I | Acenaphthened10 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 0.323 | 0.341 | -5.6 | 103 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 0.455 | 0.458 | -0.7 | 103 | 0.00 |
| 42 | CPT | 246Triclpheno | 0.307 | 0.319 | -3.9 | 103 | 0.00 |
| 43 | CPT | 245Triclpheno | 0.327 | 0.336 | -2.8 | 103 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 0.237 | 0.237 | 0.0 | 102 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 1.001 | 1.019 | -1.8 | 103 | 0.00 |
| 46 | CPT | 2Nitroaniline | 0.289 | 0.303 | -4.8 | 102 | 0.00 |
| 47 | CPT | Acnaphthylene | 1.619 | 1.628 | -0.6 | 101 | 0.00 |
| 48 | CPT | Dimethylphtha | 1.171 | 1.191 | -1.7 | 102 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 0.264 | 0.268 | -1.5 | 101 | 0.00 |
| 50 | CPT | Acenaphthene | 0.958 | 0.969 | -1.1 | 102 | 0.00 |
| 51 | CPT | 3Nitroaniline | 0.260 | 0.253 | 2.7 | 103 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S040825\2CCV398.D Vial: 2
Acq On : 8 Apr 2025 9:57 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 10:14:06 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 0.108 | 0.117 | -8.3 | 108 | 0.00 |
| 53 | CPT | Dibenzofuran | 1.375 | 1.398 | -1.7 | 102 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 0.345 | 0.362 | -4.9 | 103 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 0.183 | 0.187 | -2.2 | 104 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 0.227 | 0.247 | -8.8 | 103 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 0.242 | 0.259 | -7.0 | 102 | 0.00 |
| 58 | CPT | Fluorene | 1.033 | 1.045 | -1.2 | 102 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 0.485 | 0.486 | -0.2 | 102 | 0.00 |
| 60 | CPT | Diethylphthal | 1.156 | 1.168 | -1.0 | 102 | 0.00 |
| 61 | CPT | 4Nitroaniline | 0.231 | 0.222 | 3.9 | 100 | 0.00 |
| 62 | S | SURR246Tribrphenl | 0.051 | 0.053 | -3.9 | 103 | 0.00 |
| 63 | I | Phenanthrd10 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 0.118 | 0.124 | -5.1 | 104 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 0.514 | 0.523 | -1.8 | 102 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 0.185 | 0.187 | -1.1 | 101 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 0.188 | 0.192 | -2.1 | 103 | 0.00 |
| 68 | CPT | Hexaclbenzene | 0.212 | 0.210 | 0.9 | 102 | 0.00 |
| 69 | CPT | Pentaclphenol | 0.092 | 0.104 | -13.0 | 108 | 0.00 |
| 70 | CPT | Phenanthrene | 0.976 | 0.989 | -1.3 | 101 | 0.00 |
| 71 | CPT | Anthracene | 0.990 | 1.018 | -2.8 | 101 | 0.00 |
| 72 | CPT | Carbazole | 0.821 | 0.793 | 3.4 | 100 | 0.00 |
| 73 | CPT | Dinbtylphthal | 1.195 | 1.245 | -4.2 | 101 | 0.00 |
| 74 | CPT | Fluoranthene | 1.036 | 1.062 | -2.5 | 101 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 76 | CT | Benzidine | 0.355 | 0.296 | 16.6 | 98 | 0.00 |
| 77 | CPT | Pyrene | 1.277 | 1.289 | -0.9 | 102 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 0.195 | 0.196 | -0.5 | 102 | 0.00 |
| 79 | CPT | Btylbzylphth | 0.629 | 0.651 | -3.5 | 101 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 0.585 | 0.604 | -3.2 | 100 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 0.254 | 0.216 | 15.0 | 109 | 0.00 |
| 82 | CPT | B[a]anthracen | 1.198 | 1.192 | 0.5 | 102 | 0.00 |
| 83 | CPT | Chrysene | 1.130 | 1.118 | 1.1 | 101 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 0.942 | 0.971 | -3.1 | 100 | 0.00 |
| 85 | CPT | Dinoctylphthl | 1.541 | 1.624 | -5.4 | 102 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 87 | CPT | B[b]fluoranth | 1.047 | 1.052 | -0.5 | 100 | 0.00 |
| 88 | CPT | B[k]fluoranth | 1.055 | 1.097 | -4.0 | 105 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 0.973 | 0.999 | -2.7 | 104 | 0.00 |
| 90 | CPT | Indeno-pyrene | 1.076 | 1.112 | -3.3 | 107 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 0.883 | 0.926 | -4.9 | 107 | 0.00 |
| 92 | CPT | B[ghi]perylen | 0.842 | 0.874 | -3.8 | 109 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2CCV398.D Vial: 2
Acq On : 8 Apr 2025 9:57 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 10:14:06 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 180468 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.071 | 136 | 856599 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.836 | 164 | 482902 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 682379 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.782 | 240 | 586200 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.379 | 264 | 623937 | 20.00 | ug/mL | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) SURR2Flphenol | 3.133 | 112 | 229681 | 51.73 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.73% | | | |
| 7) SURRPhenol-d5 | 3.966 | 99 | 275392 | 51.77 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.77% | | | |
| 22) SURRNitrbenzened5 | 5.071 | 82 | 237557 | 102.59 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 102.59% | | | |
| 44) SURR2Flbiphenyl | 7.250 | 172 | 571736 | 99.81 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 99.81% | | | |
| 62) SURR246Tribrphenl | 8.432 | 330 | 64302 | 51.75 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.75% | | | |
| 78) SURRTerphenyl-d14 | 9.955 | 244 | 574669 | 100.75 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 100.75% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.326 | 74 | 147487 | 20.6136 | ug/mL | 94 |
| 3) Pyridine | 2.346 | 79 | 255891 | 20.2094 | ug/mL | 97 |
| 5) Aniline | 4.020 | 93 | 349922 | 20.6935 | ug/mL | 99 |
| 6) bis2Clethletr | 4.088 | 93 | 228598 | 20.5287 | ug/mL | 99 |
| 8) Phenol | 3.980 | 94 | 280031 | 20.7640 | ug/mL | 97 |
| 9) 2-Cl-phenol | 4.145 | 128 | 249103 | 20.5902 | ug/mL | 98 |
| 10) 13Diclbenz | 4.321 | 146 | 271135 | 20.3740 | ug/mL | 99 |
| 11) 14Diclbenz | 4.406 | 146 | 273698 | 20.3132 | ug/mL | 99 |
| 12) 12Diclbenz | 4.582 | 146 | 260505 | 20.4758 | ug/mL | 99 |
| 13) Benzyl alcoho | 4.548 | 108 | 160835 | 20.4361 | ug/mL | 97 |
| 14) bis2clispreth | 4.719 | 45 | 424349 | 19.7765 | ug/mL | 99 |
| 15) 2Methylphenol | 4.684 | 107 | 193486 | 20.4356 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.852 | 100 | 124540 | 21.0736 | ug/mL | 95 |
| 17) Acetophenone | 4.881 | 105 | 347239 | 20.5896 | ug/mL | 96 |
| 18) Hexaclethane | 5.006 | 117 | 104267 | 20.2375 | ug/mL | 97 |
| 19) N-Ntrsdinprop | 4.892 | 70 | 166832 | 20.0826 | ug/mL | 99 |
| 20) 3&4Methylphenol | 4.889 | 107 | 250082 | 20.5255 | ug/mL | 93 |
| 23) Nitrobenzene | 5.096 | 77 | 229348 | 20.2857 | ug/mL | 99 |
| 24) Isophorone | 5.460 | 82 | 493947 | 20.5580 | ug/mL | 100 |
| 25) 2-Nitrophenol | 5.565 | 139 | 156691 | 21.3137 | ug/mL | 98 |
| 26) 24Dimthpheno | 5.656 | 122 | 240503 | 20.4735 | ug/mL | 96 |
| 27) bis2clethoxym | 5.793 | 93 | 304691 | 20.5089 | ug/mL | 99 |
| 28) 24Diclphenol | 5.898 | 162 | 219987 | 20.6121 | ug/mL | 99 |
| 29) 124Triclbenz | 6.006 | 180 | 242855 | 20.2703 | ug/mL | 98 |
| 30) Benzoic acid | 5.807 | 122 | 127842 | 20.7707 | ug/mL | 92 |
| 31) Naphthalene | 6.097 | 128 | 809100 | 20.4146 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.179 | 127 | 306281 | 20.2921 | ug/mL | 99 |
| 33) 26Diclphenol | 6.185 | 162 | 219369 | 20.7466 | ug/mL | 98 |
| 34) Hexaclprop | 6.213 | 213 | 168688 | 21.0135 | ug/mL | 98 |
| 35) Hexaclbutdien | 6.267 | 225 | 143672 | 20.2574 | ug/mL | 95 |
| 36) 4Cl3methylphe | 6.750 | 107 | 223820 | 20.6540 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.881 | 142 | 491146 | 20.5117 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.978 | 142 | 503850 | 20.1489 | ug/mL | 98 |
| 40) Hxclcycpentdi | 7.046 | 237 | 164479 | 21.0846 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2CCV398.D Vial: 2
Acq On : 8 Apr 2025 9:57 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 10:14:06 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

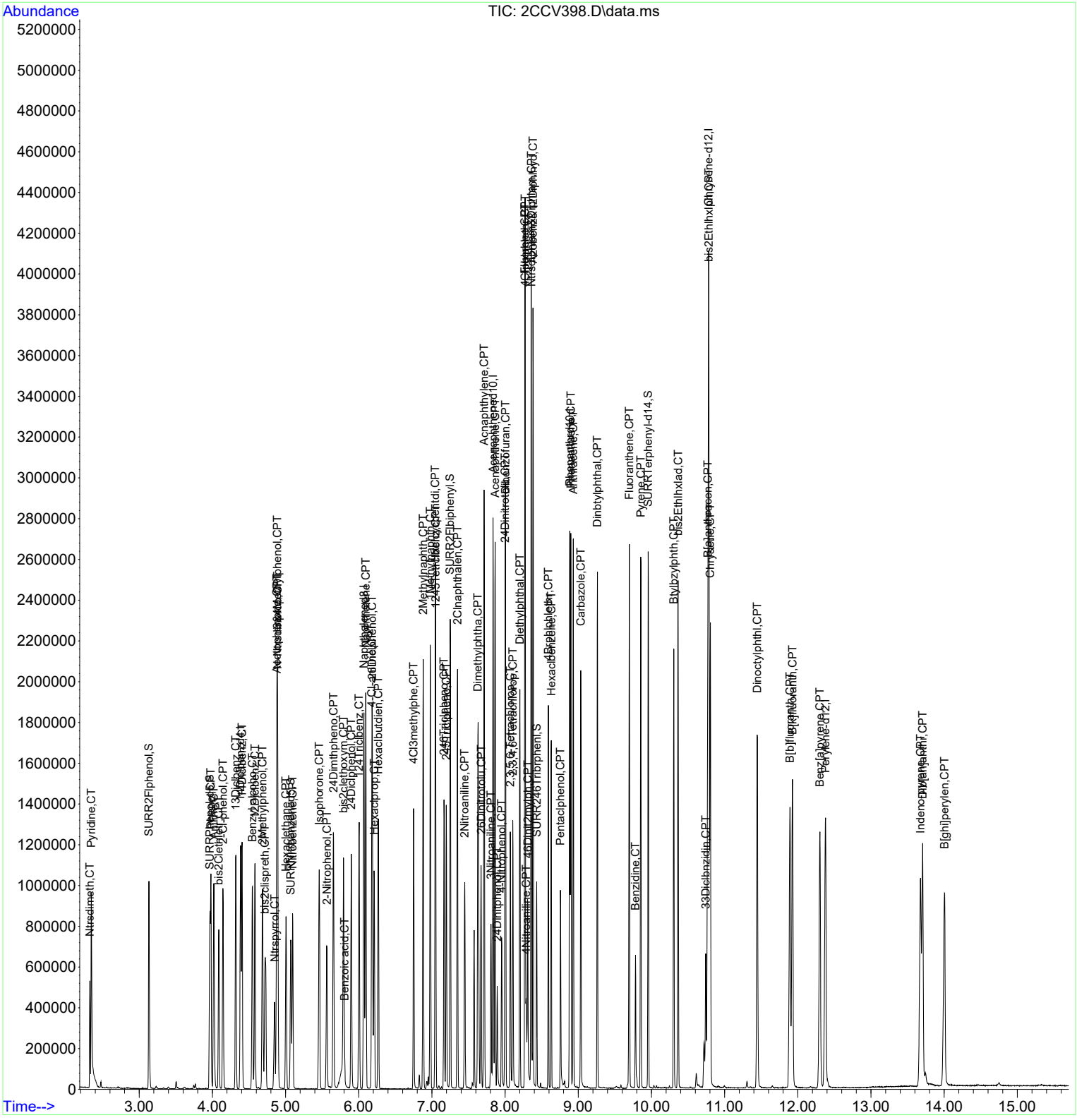
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.051 | 216 | 221147 | 20.1094 ug/mL | 97 |
| 42) 246Triclpheno | 7.165 | 196 | 153886 | 20.7277 ug/mL | 99 |
| 43) 245Triclpheno | 7.196 | 196 | 162328 | 20.5590 ug/mL | 98 |
| 45) 2Clnaphthalen | 7.350 | 162 | 491923 | 20.3544 ug/mL | 99 |
| 46) 2Nitroaniline | 7.449 | 65 | 146399 | 20.2778 ug/mL | 98 |
| 47) Acnaphthylene | 7.713 | 152 | 786319 | 20.1107 ug/mL | 99 |
| 48) Dimethylphtha | 7.628 | 163 | 575084 | 20.3378 ug/mL | 100 |
| 49) 26Dinitrotolu | 7.674 | 165 | 129573 | 20.3077 ug/mL | 95 |
| 50) Acenaphthene | 7.864 | 154 | 467798 | 20.2276 ug/mL | 97 |
| 51) 3Nitroaniline | 7.807 | 138 | 122397 | 19.4280 ug/mL | 94 |
| 52) 24Dinitphenol | 7.892 | 184 | 56715 | 20.4524 ug/mL | 98 |
| 53) Dibenzofuran | 8.006 | 168 | 674925 | 20.3311 ug/mL | 100 |
| 54) 24Dinitrotolu | 8.000 | 165 | 175034 | 21.0257 ug/mL | 98 |
| 55) 4-Nitrophenol | 7.952 | 65 | 90184 | 20.0314 ug/mL | 98 |
| 56) 2,3,5,6-Tetrachlorop | 8.071 | 232 | 119239 | 20.4594 ug/mL | 98 |
| 57) 2,3,4,6-Tetrachlorop | 8.106 | 232 | 125058 | 20.1817 ug/mL | 97 |
| 58) Fluorene | 8.270 | 166 | 504440 | 20.2314 ug/mL | 98 |
| 59) 4Clphlphlethr | 8.273 | 204 | 234760 | 20.0389 ug/mL | 98 |
| 60) Diethylphthal | 8.202 | 149 | 563993 | 20.1995 ug/mL | 98 |
| 61) 4Nitroaniline | 8.287 | 138 | 107352 | 19.2424 ug/mL | 96 |
| 64) 46Dinit2mylph | 8.310 | 198 | 84831 | 20.2407 ug/mL | 98 |
| 65) Ntrsdiphlam&Diphlam | 8.358 | 169 | 713120 | 40.5300 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.381 | 182 | 255005 | 40.3864 ug/mL | 99 |
| 67) 4Brphlphlethr | 8.591 | 248 | 130760 | 20.3589 ug/mL | 96 |
| 68) Hexaclbenzene | 8.631 | 284 | 143258 | 19.7705 ug/mL | 97 |
| 69) Pentaclphenol | 8.756 | 266 | 71215 | 21.2371 ug/mL | 98 |
| 70) Phenanthrene | 8.898 | 178 | 674546 | 20.2549 ug/mL | 99 |
| 71) Anthracene | 8.932 | 178 | 694651 | 20.5551 ug/mL | 100 |
| 72) Carbazole | 9.035 | 167 | 541301 | 19.3203 ug/mL | 99 |
| 73) Dinbtylphthal | 9.262 | 149 | 849238 | 20.8292 ug/mL | 99 |
| 74) Fluoranthene | 9.697 | 202 | 724636 | 20.4946 ug/mL | 99 |
| 76) Benzidine | 9.782 | 184 | 173640 | 18.3225 ug/mL | 99 |
| 77) Pyrene | 9.856 | 202 | 755375 | 20.1789 ug/mL | 99 |
| 79) Btylbzylphth | 10.305 | 149 | 381811 | 19.9851 ug/mL | 99 |
| 80) bis2Ethlhxlad | 10.365 | 129 | 354184 | 19.8922 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.742 | 252 | 126372 | 19.5225 ug/mL | 96 |
| 82) B[a]anthracen | 10.771 | 228 | 698893 | 19.8986 ug/mL | 99 |
| 83) Chrysene | 10.805 | 228 | 655090 | 19.7749 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.785 | 149 | 569342 | 20.6218 ug/mL | 98 |
| 85) Dinoctylphthl | 11.447 | 149 | 951857 | 20.1102 ug/mL | 98 |
| 87) B[b]fluoranth | 11.893 | 252 | 656641 | 20.1121 ug/mL | 99 |
| 88) B[k]fluoranth | 11.927 | 252 | 684355 | 20.7873 ug/mL | 98 |
| 89) Benz[a]pyrene | 12.302 | 252 | 623148 | 20.5193 ug/mL | 99 |
| 90) Indeno-pyrene | 13.678 | 276 | 693697 | 20.6606 ug/mL | 98 |
| 91) Dib[ah]anthr | 13.706 | 278 | 577643 | 20.9749 ug/mL | 97 |
| 92) B[ghi]perylen | 14.007 | 276 | 545625 | 20.7676 ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2CCV398.D Vial: 2
Acq On : 8 Apr 2025 9:57 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 10:14:06 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Ending CCV %Recovery Report

| | |
|---|---|
| Data File Name | 2CCV400.D |
| Data File Path | C:\INSTARCH\DATA\2S040825\ |
| Operator | JJY |
| Date Acquired | 4/8/2025 15:41 |
| Acq. Method File | 2S040725.M |
| Sample Name | CCV 20 ug/mL SVMS10298 |
| Misc Info | 500 ul + 5ul IS S5036C |
| Vial Number | 17 |
| Instrument Name | SVMS2 |
| Sample Multiplier | 1 |

| # | Name | Ret Time | Amount | Units | Response | 50-150 %REC |
|---|---|---|---|---|---|---|
| 1 | 14Diclbenzd4 | 4.39 | 20.00 | ug/mL | 177468 | ISTD |
| 2 | Ntrsdimeth | 2.33 | 20.34 | ug/mL | 143105 | 102 |
| 3 | Pyridine | 2.35 | 20.16 | ug/mL | 250988 | 101 |
| 4 | SURR2Flphenol | 3.13 | 51.30 | %REC | 223994 | 103 |
| 5 | Aniline | 4.02 | 20.59 | ug/mL | 342380 | 103 |
| 6 | bis2Clethletr | 4.09 | 20.28 | ug/mL | 222129 | 101 |
| 7 | SURRPhenol-d5 | 3.97 | 51.23 | %REC | 267987 | 102 |
| 8 | Phenol | 3.98 | 20.63 | ug/mL | 273550 | 103 |
| 9 | 2-Cl-phenol | 4.14 | 20.47 | ug/mL | 243571 | 102 |
| 10 | 13Diclbenz | 4.32 | 19.99 | ug/mL | 261640 | 100 |
| 11 | 14Diclbenz | 4.41 | 20.01 | ug/mL | 265096 | 100 |
| 12 | 12Diclbenz | 4.58 | 20.05 | ug/mL | 250867 | 100 |
| 13 | Benzyl alcoho | 4.55 | 20.91 | ug/mL | 161824 | 105 |
| 14 | bis2clispreth | 4.72 | 19.97 | ug/mL | 421327 | 100 |
| 15 | 2Methylphenol | 4.68 | 20.43 | ug/mL | 190250 | 102 |
| 16 | Ntrspyrrol | 4.85 | 20.72 | ug/mL | 120431 | 104 |
| 17 | Acetophenone | 4.88 | 20.42 | ug/mL | 338643 | 102 |
| 18 | Hexaclethane | 5.01 | 20.20 | ug/mL | 102335 | 101 |
| 19 | N-Ntrsdinprop | 4.89 | 19.97 | ug/mL | 163116 | 100 |
| 20 | 3&4Methylphenol | 4.89 | 20.49 | ug/mL | 245465 | 102 |
| 21 | Naphthalened8 | 6.07 | 20.00 | ug/mL | 837929 | ISTD |
| 22 | SURRNitrbenzened5 | 5.07 | 103.94 | %REC | 235443 | 104 |
| 23 | Nitrobenzene | 5.10 | 20.70 | ug/mL | 228917 | 103 |
| 24 | Isophorone | 5.46 | 20.61 | ug/mL | 484338 | 103 |
| 25 | 2-Nitrophenol | 5.57 | 21.15 | ug/mL | 152128 | 106 |
| 26 | 24Dimthpheno | 5.66 | 20.60 | ug/mL | 236727 | 103 |
| 27 | bis2clethoxym | 5.79 | 20.60 | ug/mL | 299346 | 103 |
| 28 | 24Diclphenol | 5.90 | 20.68 | ug/mL | 215940 | 103 |
| 29 | 124Triclbenz | 6.01 | 20.11 | ug/mL | 177468 | 101 |
| 30 | Benzoic acid | 5.81 | 20.77 | ug/mL | 235700 | 104 |
| 31 | Naphthalene | 6.10 | 20.18 | ug/mL | 782285 | 101 |
| 32 | 4-Cl-aniline | 6.18 | 21.11 | ug/mL | 311693 | 106 |
| 33 | 26Diclphenol | 6.18 | 20.44 | ug/mL | 211412 | 102 |
| 34 | Hexaclprop | 6.21 | 19.20 | ug/mL | 150810 | 96 |
| 35 | Hexaclbutdien | 6.27 | 19.89 | ug/mL | 137983 | 99 |
| 36 | 4Cl3methylphe | 6.75 | 21.06 | ug/mL | 223242 | 105 |
| 37 | 2Methylnaphth | 6.88 | 20.46 | ug/mL | 479203 | 102 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 38 | 1Methylnaphth | 6.98 | 20.30 | ug/mL | 496630 | 102 |
| 39 | Acenaphthened10 | 7.84 | 20.00 | ug/mL | 177468 | ISTD |
| 40 | Hxclcycpentdi | 7.05 | 18.39 | ug/mL | 472134 | 92 |
| 41 | 1245Tetrclbenz | 7.05 | 19.62 | ug/mL | 210950 | 98 |
| 42 | 246Triclpheno | 7.17 | 20.73 | ug/mL | 150462 | 104 |
| 43 | 245Triclpheno | 7.20 | 20.79 | ug/mL | 160508 | 104 |
| 44 | SURR2Flbiphenyl | 7.25 | 100.25 | %REC | 561406 | 100 |
| 45 | 2Clnaphthalen | 7.35 | 20.33 | ug/mL | 480318 | 102 |
| 46 | 2Nitroaniline | 7.45 | 20.98 | ug/mL | 148318 | 105 |
| 47 | Acnaphthylene | 7.71 | 20.34 | ug/mL | 177468 | 102 |
| 48 | Dimethylphtha | 7.63 | 20.34 | ug/mL | 777489 | 102 |
| 49 | 26Dinitrotolu | 7.67 | 20.39 | ug/mL | 127179 | 102 |
| 50 | Acenaphthene | 7.86 | 20.14 | ug/mL | 455470 | 101 |
| 51 | 3Nitroaniline | 7.81 | 22.19 | ug/mL | 137722 | 111 |
| 52 | 24Dinitphenol | 7.90 | 20.49 | ug/mL | 55590 | 102 |
| 53 | Dibenzofuran | 8.01 | 20.40 | ug/mL | 662271 | 102 |
| 54 | 24Dinitrotolu | 8.00 | 21.25 | ug/mL | 177468 | 106 |
| 55 | 4-Nitrophenol | 7.96 | 21.03 | ug/mL | 172989 | 105 |
| 56 | 2,3,5,6-Tetrachlorop | 8.07 | 21.25 | ug/mL | 121379 | 106 |
| 57 | 2,3,4,6-Tetrachlorop | 8.11 | 21.11 | ug/mL | 128041 | 106 |
| 58 | Fluorene | 8.27 | 20.45 | ug/mL | 498608 | 102 |
| 59 | 4Clphlphlethr | 8.28 | 20.19 | ug/mL | 231289 | 101 |
| 60 | Diethylphthal | 8.21 | 20.16 | ug/mL | 550445 | 101 |
| 61 | 4Nitroaniline | 8.29 | 23.18 | ug/mL | 126417 | 116 |
| 62 | SURR246Tribrphenl | 8.43 | 53.17 | %REC | 64593 | 106 |
| 63 | Phenanthrd10 | 8.88 | 20.00 | ug/mL | 678832 | ISTD |
| 64 | 46Dinit2mylph | 8.31 | 19.56 | ug/mL | 81207 | 98 |
| 65 | Ntrsdiphlam&Diphlam | 8.36 | 40.36 | ug/mL | 706706 | 101 |
| 66 | Azobenz&12Diphlhyd | 8.38 | 40.06 | ug/mL | 251752 | 100 |
| 67 | 4Brphlphlethr | 8.59 | 20.16 | ug/mL | 128801 | 101 |
| 68 | Hexaclbenzene | 8.63 | 19.48 | ug/mL | 140440 | 97 |
| 69 | Pentaclphenol | 8.76 | 22.23 | ug/mL | 74762 | 111 |
| 70 | Phenanthrene | 8.90 | 20.13 | ug/mL | 666801 | 101 |
| 71 | Anthracene | 8.93 | 20.55 | ug/mL | 690978 | 103 |
| 72 | Carbazole | 9.03 | 21.40 | ug/mL | 591708 | 107 |
| 73 | Dinbtylphthal | 9.26 | 20.69 | ug/mL | 839365 | 103 |
| 74 | Fluoranthene | 9.70 | 20.51 | ug/mL | 721427 | 103 |
| 75 | Chrysene-d12 | 10.78 | 20.00 | ug/mL | 581368 | ISTD |
| 76 | Benzidine | 9.78 | 19.73 | ug/mL | 186985 | 99 |
| 77 | Pyrene | 9.86 | 19.99 | ug/mL | 742246 | 100 |
| 78 | SURRTerphenyl-d14 | 9.96 | 99.68 | %REC | 563855 | 100 |
| 79 | Btylbzylphth | 10.30 | 20.14 | ug/mL | 381777 | 101 |
| 80 | bis2Ethlhxlad | 10.36 | 19.99 | ug/mL | 353000 | 100 |
| 81 | 33Diclbnzidin | 10.74 | 28.62 | ug/mL | 190781 | 143 |
| 82 | B[a]anthracen | 10.77 | 19.90 | ug/mL | 693137 | 99 |
| 83 | Chrysene | 10.80 | 19.86 | ug/mL | 652610 | 99 |
| 84 | bis2Ethlhxlph | 10.79 | 20.50 | ug/mL | 561381 | 103 |
| 85 | Dinoctylphthl | 11.45 | 20.30 | ug/mL | 953305 | 101 |
| 86 | Perylene-d12 | 12.38 | 20.00 | ug/mL | 635245 | ISTD |
| 87 | B[b]fluoranth | 11.89 | 20.14 | ug/mL | 669345 | 101 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 88 | B[k]fluoranth | 11.93 | 20.14 | ug/mL | 675188 | 101 |
| 89 | Benz[a]pyrene | 12.31 | 20.34 | ug/mL | 628775 | 102 |
| 90 | Indeno-pyrene | 13.68 | 20.66 | ug/mL | 706167 | 103 |
| 91 | Dib[ah]anthr | 13.71 | 20.90 | ug/mL | 586071 | 105 |
| 92 | B[ghi]perylen | 14.01 | 20.53 | ug/mL | 549257 | 103 |

(#) = recovery out of range Average Percent Recovery = 103

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2CCV400.D Vial: 17
Acq On : 8 Apr 2025 15:41 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 15:58:33 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 177468 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.071 | 136 | 837929 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.836 | 164 | 472134 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 678832 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.782 | 240 | 581368 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.382 | 264 | 635245 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.133 | 112 | 223994 | 51.30 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.30% | | | |
| 7) SURRPhenol-d5 | 3.966 | 99 | 267987 | 51.23 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.23% | | | |
| 22) SURRNitrbenzened5 | 5.074 | 82 | 235443 | 103.94 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 103.94% | | | |
| 44) SURR2Flbiphenyl | 7.253 | 172 | 561406 | 100.25 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 100.25% | | | |
| 62) SURR246Tribrphenl | 8.432 | 330 | 64593 | 53.17 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.17% | | | |
| 78) SURRTerphenyl-d14 | 9.958 | 244 | 563855 | 99.68 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 99.68% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.329 | 74 | 143105 | 20.3393 | ug/mL | 94 |
| 3) Pyridine | 2.346 | 79 | 250988 | 20.1573 | ug/mL | 100 |
| 5) Aniline | 4.022 | 93 | 342380 | 20.5897 | ug/mL | 100 |
| 6) bis2Clethletr | 4.088 | 93 | 222129 | 20.2849 | ug/mL | 99 |
| 8) Phenol | 3.983 | 94 | 273550 | 20.6263 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.145 | 128 | 243571 | 20.4733 | ug/mL | 98 |
| 10) 13Diclbenz | 4.321 | 146 | 261640 | 19.9928 | ug/mL | 98 |
| 11) 14Diclbenz | 4.406 | 146 | 265096 | 20.0074 | ug/mL | 99 |
| 12) 12Diclbenz | 4.582 | 146 | 250867 | 20.0516 | ug/mL | 99 |
| 13) Benzyl alcoho | 4.548 | 108 | 161824 | 20.9094 | ug/mL | 97 |
| 14) bis2clispreth | 4.721 | 45 | 421327 | 19.9676 | ug/mL | 99 |
| 15) 2Methylphenol | 4.684 | 107 | 190250 | 20.4335 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.852 | 100 | 120431 | 20.7228 | ug/mL | 97 |
| 17) Acetophenone | 4.881 | 105 | 338643 | 20.4194 | ug/mL | 99 |
| 18) Hexaclethane | 5.006 | 117 | 102335 | 20.1983 | ug/mL | 97 |
| 19) N-Ntrsdinprop | 4.892 | 70 | 163116 | 19.9672 | ug/mL | 98 |
| 20) 3&4Methylphenol | 4.892 | 107 | 245465 | 20.4871 | ug/mL | 99 |
| 23) Nitrobenzene | 5.099 | 77 | 228917 | 20.6987 | ug/mL | 99 |
| 24) Isophorone | 5.463 | 82 | 484338 | 20.6072 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.565 | 139 | 152128 | 21.1541 | ug/mL | 99 |
| 26) 24Dimthpheno | 5.656 | 122 | 236727 | 20.6010 | ug/mL | 96 |
| 27) bis2clethoxym | 5.793 | 93 | 299346 | 20.5981 | ug/mL | 99 |
| 28) 24Diclphenol | 5.901 | 162 | 215940 | 20.6837 | ug/mL | 99 |
| 29) 124Triclbenz | 6.006 | 180 | 235700 | 20.1114 | ug/mL | 98 |
| 30) Benzoic acid | 5.807 | 122 | 125039 | 20.7685 | ug/mL | 95 |
| 31) Naphthalene | 6.097 | 128 | 782285 | 20.1778 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.182 | 127 | 311693 | 21.1107 | ug/mL | 98 |
| 33) 26Diclphenol | 6.185 | 162 | 211412 | 20.4396 | ug/mL | 99 |
| 34) Hexaclprop | 6.213 | 213 | 150810 | 19.2050 | ug/mL | 98 |
| 35) Hexaclbutdien | 6.267 | 225 | 137983 | 19.8888 | ug/mL | 98 |
| 36) 4Cl3methylphe | 6.750 | 107 | 223242 | 21.0597 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.881 | 142 | 479203 | 20.4588 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.978 | 142 | 496630 | 20.3027 | ug/mL | 98 |
| 40) Hxclcycpentdi | 7.046 | 237 | 140246 | 18.3882 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2CCV400.D Vial: 17
Acq On : 8 Apr 2025 15:41 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 15:58:33 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

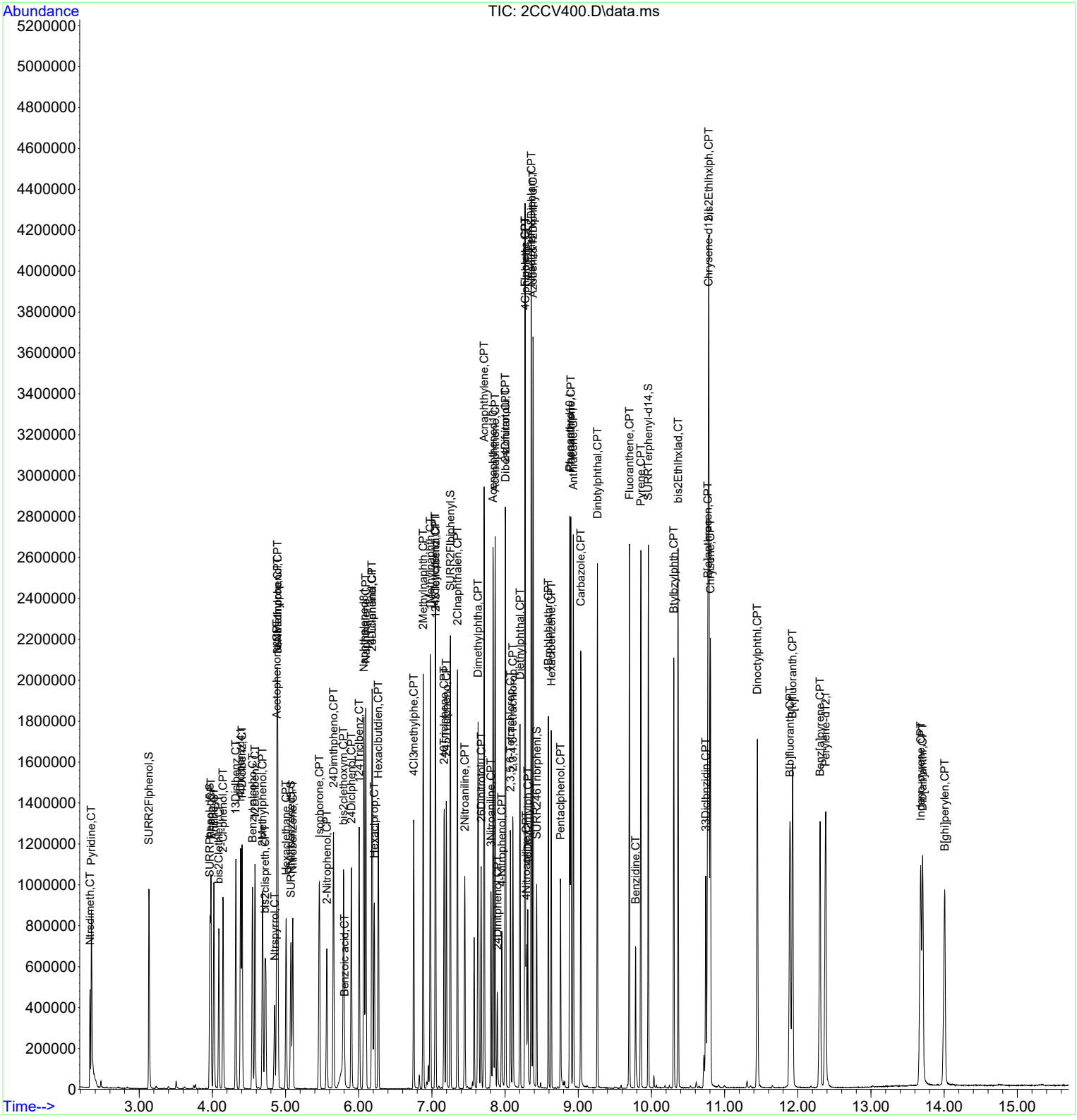
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.051 | 216 | 210950 | 19.6197 ug/mL | 99 |
| 42) 246Triclpheno | 7.168 | 196 | 150462 | 20.7287 ug/mL | 97 |
| 43) 245Triclpheno | 7.196 | 196 | 160508 | 20.7921 ug/mL | 97 |
| 45) 2Clnaphthalen | 7.350 | 162 | 480318 | 20.3275 ug/mL | 98 |
| 46) 2Nitroaniline | 7.449 | 65 | 148318 | 20.9777 ug/mL | 97 |
| 47) Acnaphthylene | 7.713 | 152 | 777489 | 20.3383 ug/mL | 99 |
| 48) Dimethylphtha | 7.631 | 163 | 562308 | 20.3395 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.674 | 165 | 127179 | 20.3871 ug/mL | 98 |
| 50) Acenaphthene | 7.864 | 154 | 455470 | 20.1437 ug/mL | 97 |
| 51) 3Nitroaniline | 7.807 | 138 | 137722 | 22.1933 ug/mL | 98 |
| 52) 24Dinitphenol | 7.895 | 184 | 55590 | 20.4923 ug/mL | 98 |
| 53) Dibenzofuran | 8.006 | 168 | 662271 | 20.4049 ug/mL | 99 |
| 54) 24Dinitrotolu | 8.003 | 165 | 172989 | 21.2540 ug/mL | 98 |
| 55) 4-Nitrophenol | 7.955 | 65 | 92979 | 21.0340 ug/mL | 99 |
| 56) 2,3,5,6-Tetrachlorop | 8.074 | 232 | 121379 | 21.2497 ug/mL | 99 |
| 57) 2,3,4,6-Tetrachlorop | 8.106 | 232 | 128041 | 21.1064 ug/mL | 99 |
| 58) Fluorene | 8.273 | 166 | 498608 | 20.4536 ug/mL | 99 |
| 59) 4Clphlphlethr | 8.276 | 204 | 231289 | 20.1929 ug/mL | 95 |
| 60) Diethylphthal | 8.205 | 149 | 550445 | 20.1639 ug/mL | 99 |
| 61) 4Nitroaniline | 8.290 | 138 | 126417 | 23.1765 ug/mL | 95 |
| 64) 46Dinit2mylph | 8.310 | 198 | 81207 | 19.5561 ug/mL | 98 |
| 65) Ntrsdiphlam&Diphlam | 8.358 | 169 | 706706 | 40.3640 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.384 | 182 | 251752 | 40.0621 ug/mL | 90 |
| 67) 4Brphlphlethr | 8.591 | 248 | 128801 | 20.1587 ug/mL | 96 |
| 68) Hexaclbenzene | 8.631 | 284 | 140440 | 19.4829 ug/mL | 100 |
| 69) Pentaclphenol | 8.759 | 266 | 74762 | 22.2261 ug/mL | 98 |
| 70) Phenanthrene | 8.898 | 178 | 666801 | 20.1270 ug/mL | 99 |
| 71) Anthracene | 8.932 | 178 | 690978 | 20.5533 ug/mL | 100 |
| 72) Carbazole | 9.035 | 167 | 591708 | 21.3952 ug/mL | 99 |
| 73) Dinbtylphthal | 9.262 | 149 | 839365 | 20.6946 ug/mL | 100 |
| 74) Fluoranthene | 9.700 | 202 | 721427 | 20.5104 ug/mL | 99 |
| 76) Benzidine | 9.785 | 184 | 186985 | 19.7275 ug/mL | 99 |
| 77) Pyrene | 9.856 | 202 | 742246 | 19.9930 ug/mL | 99 |
| 79) Btylbzylphth | 10.305 | 149 | 381777 | 20.1419 ug/mL | 99 |
| 80) bis2Ethlhxlad | 10.365 | 129 | 353000 | 19.9871 ug/mL | 100 |
| 81) 33Diclbnzidin | 10.742 | 252 | 190781 | 28.6209 ug/mL | 98 |
| 82) B[a]anthracen | 10.771 | 228 | 693137 | 19.8987 ug/mL | 100 |
| 83) Chrysene | 10.805 | 228 | 652610 | 19.8638 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.785 | 149 | 561381 | 20.5024 ug/mL | 99 |
| 85) Dinoctylphthl | 11.447 | 149 | 953305 | 20.2974 ug/mL | 100 |
| 87) B[b]fluoranth | 11.893 | 252 | 669345 | 20.1363 ug/mL | 99 |
| 88) B[k]fluoranth | 11.930 | 252 | 675188 | 20.1437 ug/mL | 98 |
| 89) Benz[a]pyrene | 12.305 | 252 | 628775 | 20.3360 ug/mL | 99 |
| 90) Indeno-pyrene | 13.681 | 276 | 706167 | 20.6576 ug/mL | 99 |
| 91) Dib[ah]anthr | 13.706 | 278 | 586071 | 20.9021 ug/mL | 98 |
| 92) B[ghi]perylen | 14.010 | 276 | 549257 | 20.5337 ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2CCV400.D Vial: 17
Acq On : 8 Apr 2025 15:41 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 15:58:33 2025

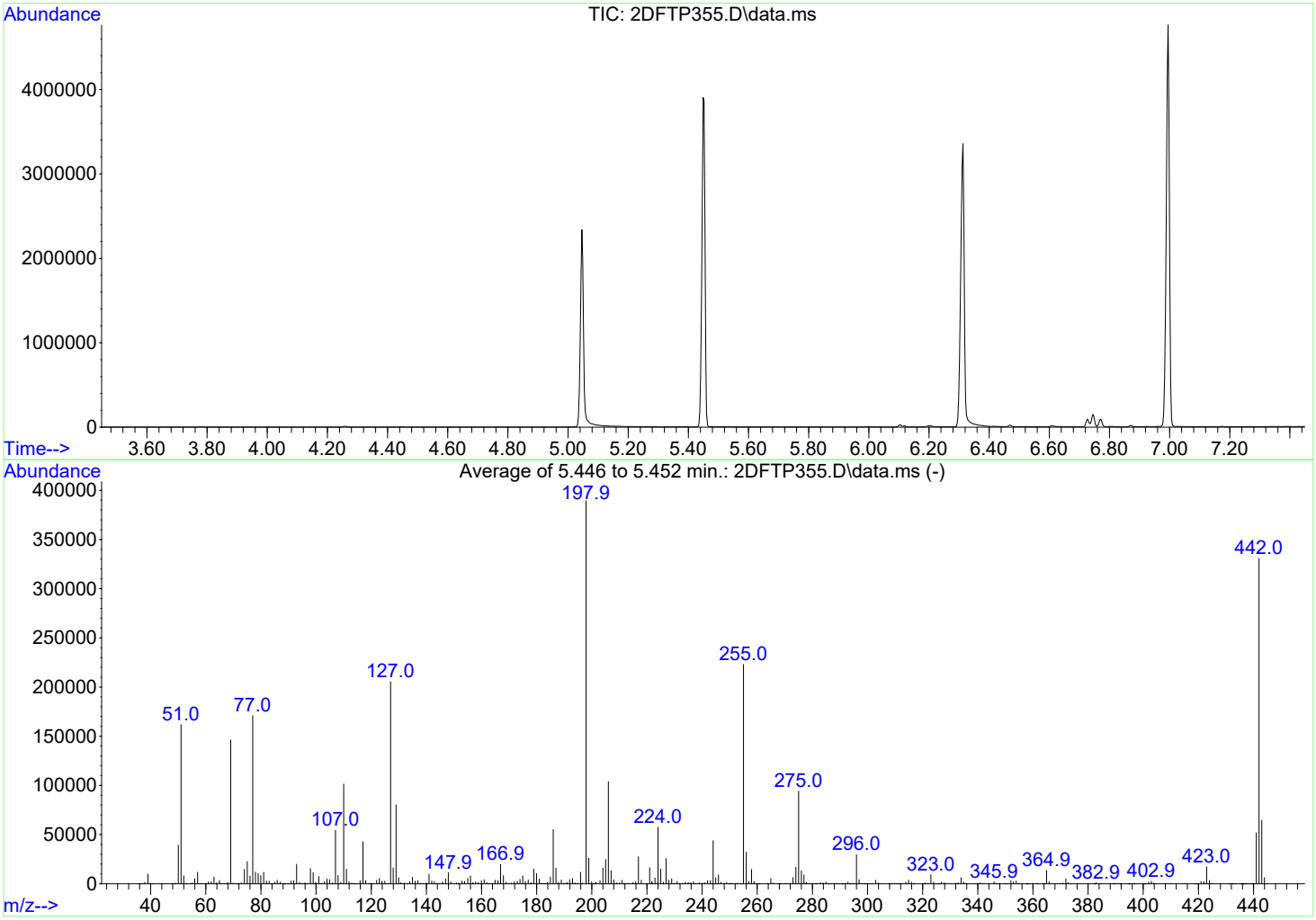
Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Data Path : C:\INSTARCH\DATA\2S041025\
Data File : 2DFTP355.D
Acq On : 10 Apr 2025 14:19
Operator : ALD
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 15 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Thu Apr 10 14:29:50 2025



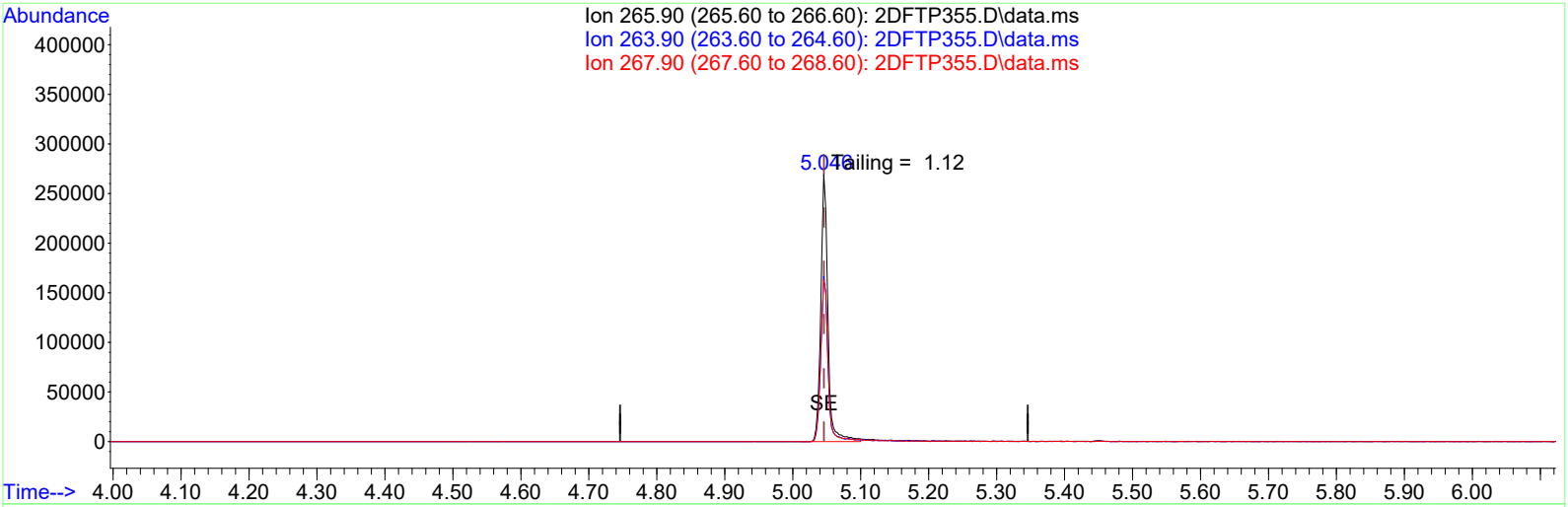

AutoFind: Scans 937, 938, 939; Background Corrected with Scan 929

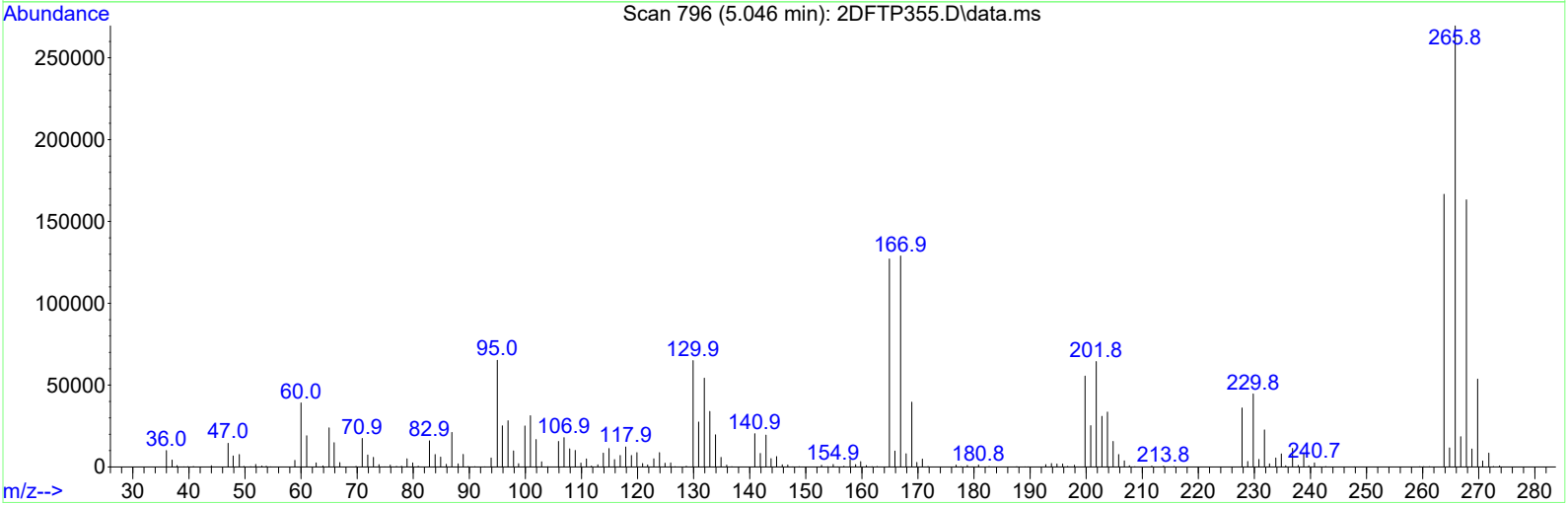
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 41.6 | 161835 | PASS |
| 68 | 69 | 0.00 | 2 | 1.0 | 1454 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 748 | PASS |
| 127 | 198 | 10 | 80 | 52.7 | 205355 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 389419 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 26107 | PASS |
| 275 | 198 | 10 | 60 | 24.2 | 94277 | PASS |
| 365 | 198 | 1 | 100 | 3.4 | 13430 | PASS |
| 441 | 442 | 0.01 | 24 | 15.7 | 51856 | PASS |
| 442 | 198 | 50 | 100 | 84.9 | 330731 | PASS |
| 443 | 442 | 15 | 24 | 19.5 | 64579 | PASS |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S041025\2DFTP355.D  Vial: 15
Acq On : 10 Apr 2025 14:19  Operator: ALD
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 14:29:58 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Thu Apr 10 14:29:50 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP355.D\data.ms

**(1) Pentachlorophenol**

**5.046min (-0.000) 25.31 ng**

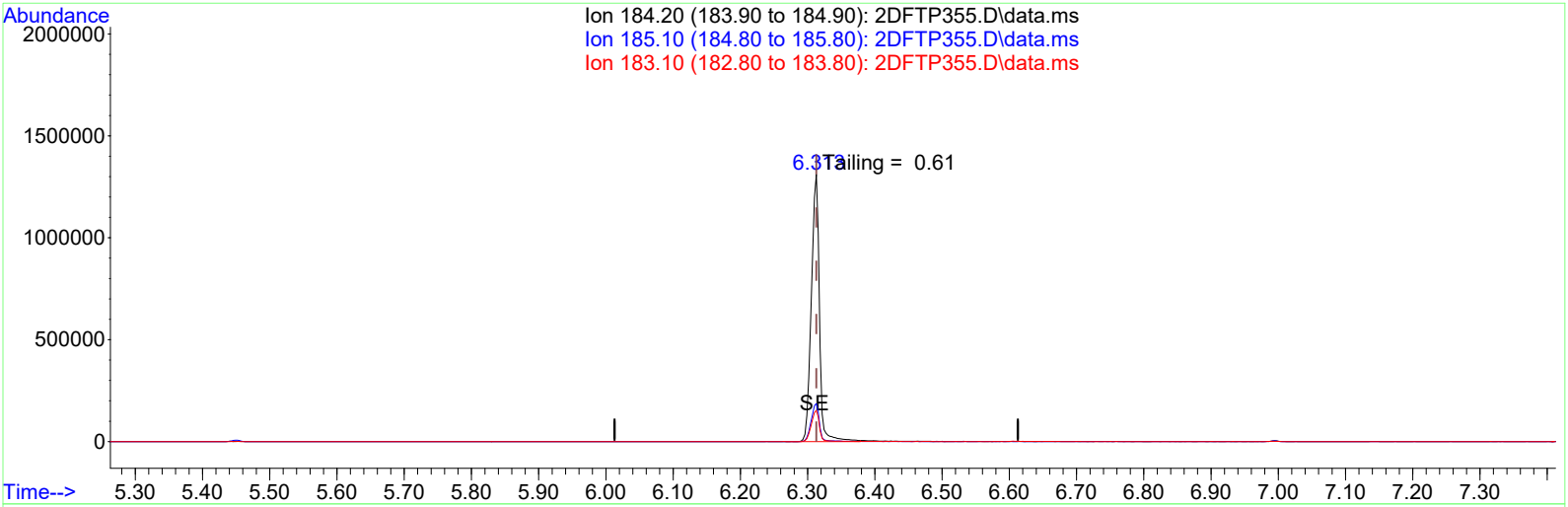
**response 198626**

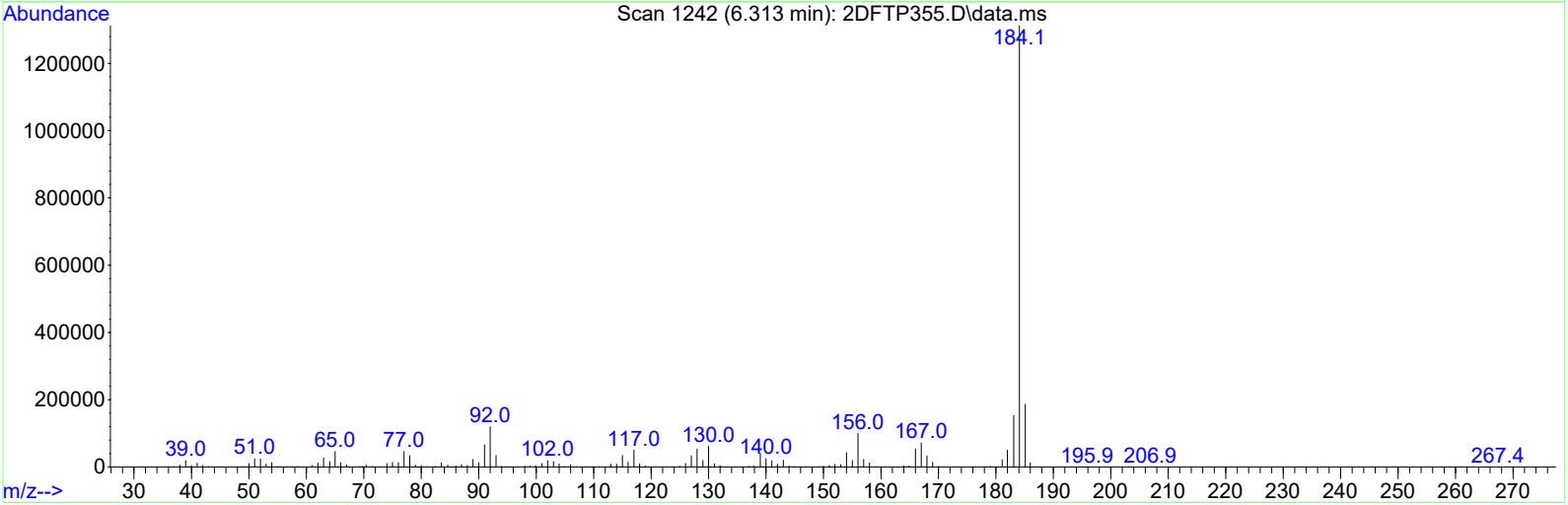
| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 263.90 | 62.00 | 61.06 |
| 267.90 | 60.10 | 61.57 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S041025\2DFTP355.D  Vial: 15
Acq On : 10 Apr 2025 14:19  Operator: ALD
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 14:29:58 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Thu Apr 10 14:29:50 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP355.D\data.ms

**(3) Benzidine**

**6.313min ( 0.000) 42.77 ng**

**response 1109215**

| Ion | Exp% | Act% |
|---|---|---|
| 184.20 | 100.00 | 100.00 |
| 185.10 | 15.30 | 14.52 |
| 183.10 | 11.70 | 11.50 |
| 0.00 | 0.00 | 0.00 |

| | |
|---|---|
| Data File Name | 2DFTP355.D |
| Vial Number | 15 |
| Data File Path | C:\INSTARCH\DATA\2S041025\ |
| Operator | ALD |
| Date Acquired | 4/10/2025 14:19 |
| Instrument Name | SVMS2 |
| Sample Name | DFTPP TUNE SVMS10212 |
| Sample Multiplier | 1 |
| Misc Info | SVMS2, 25 ng DFTPP |
| Calibration Title | DFTPP TUNE |
| Last Calibration Update | Thu Apr 10 14:29:50 2025 |

| # | Name | Ret Time | Target Response |
|---|---|---|---|
| 1) | Pentachlorophenol | 5.05 | 198626 |
| 2) | DFTPP | 5.45 | 307063 |
| 3) | Benzidine | 6.31 | 1109215 |
| 4) | DDE | 6.47 | 1535 |
| 5) | DDD | 6.74 | 32628 |
| 6) | DDT | 6.99 | 641082 |

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \quad 5.06\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041025\2CCV405.D Vial: 16
Acq On : 10 Apr 2025 14:35 Operator: ALD
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 14:58:59 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 20.000 | 20.000 | 0.0 | 99 | 0.00 |
| 2 | CT | Ntrsdimeth | 20.000 | 20.575 | -2.9 | 99 | 0.00 |
| 3 | CT | Pyridine | 20.000 | 20.110 | -0.5 | 100 | 0.00 |
| 4 | S | SURR2Flphenol | 50.000 | 50.998 | -2.0 | 98 | 0.00 |
| 5 | CT | Aniline | 20.000 | 20.366 | -1.8 | 98 | 0.00 |
| 6 | CPT | bis2Clethletr | 20.000 | 20.001 | -0.0 | 98 | 0.00 |
| 7 | S | SURRPhenol-d5 | 50.000 | 51.795 | -3.6 | 101 | 0.00 |
| 8 | CPT | Phenol | 20.000 | 20.413 | -2.1 | 99 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 20.000 | 20.470 | -2.3 | 99 | 0.00 |
| 10 | CT | 13Diclbenz | 20.000 | 20.307 | -1.5 | 99 | 0.00 |
| 11 | CT | 14Diclbenz | 20.000 | 20.131 | -0.7 | 100 | 0.00 |
| 12 | CT | 12Diclbenz | 20.000 | 20.212 | -1.1 | 99 | 0.00 |
| 13 | CT | Benzyl alcoho | 20.000 | 20.513 | -2.6 | 97 | 0.00 |
| 14 | CPT | bis2clispreth | 20.000 | 19.496 | 2.5 | 96 | 0.00 |
| 15 | CPT | 2Methylphenol | 20.000 | 20.224 | -1.1 | 97 | 0.00 |
| 16 | CT | Ntrspyrrol | 20.000 | 20.270 | -1.3 | 96 | 0.00 |
| 17 | CPT | Acetophenone | 20.000 | 20.075 | -0.4 | 98 | 0.00 |
| 18 | CPT | Hexaclethane | 20.000 | 19.950 | 0.3 | 99 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 20.000 | 19.900 | 0.5 | 96 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 20.000 | 20.478 | -2.4 | 98 | 0.00 |
| 21 | I | Naphthalened8 | 20.000 | 20.000 | 0.0 | 98 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 100.000 | 100.179 | -0.2 | 97 | 0.00 |
| 23 | CPT | Nitrobenzene | 20.000 | 20.147 | -0.7 | 98 | 0.00 |
| 24 | CPT | Isophorone | 20.000 | 20.122 | -0.6 | 96 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 20.000 | 19.789 | 1.1 | 96 | 0.00 |
| 26 | CPT | 24Dimthpheno | 20.000 | 20.604 | -3.0 | 100 | 0.00 |
| 27 | CPT | bis2clethoxym | 20.000 | 20.344 | -1.7 | 98 | 0.00 |
| 28 | CPT | 24Diclphenol | 20.000 | 20.672 | -3.4 | 99 | 0.00 |
| 29 | CT | 124Triclbenz | 20.000 | 20.207 | -1.0 | 99 | 0.00 |
| 30 | CT | Benzoic acid | 20.000 | 21.472 | -7.4 | 107 | 0.00 |
| 31 | CPT | Naphthalene | 20.000 | 20.301 | -1.5 | 100 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 20.000 | 21.196 | -6.0 | 101 | 0.00 |
| 33 | CT | 26Diclphenol | 20.000 | 20.616 | -3.1 | 99 | 0.00 |
| 34 | CT | Hexaclprop | 20.000 | 20.797 | -4.0 | 97 | 0.00 |
| 35 | CPT | Hexaclbutdien | 20.000 | 20.638 | -3.2 | 101 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 20.000 | 20.679 | -3.4 | 97 | 0.00 |
| 37 | CPT | 2Methylnaphth | 20.000 | 20.124 | -0.6 | 98 | 0.00 |
| 38 | CT | 1Methylnaphth | 20.000 | 20.223 | -1.1 | 98 | 0.00 |
| 39 | I | Acenaphthened10 | 20.000 | 20.000 | 0.0 | 99 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 20.000 | 20.774 | -3.9 | 95 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 20.000 | 20.297 | -1.5 | 98 | 0.00 |
| 42 | CPT | 246Triclpheno | 20.000 | 20.786 | -3.9 | 99 | 0.00 |
| 43 | CPT | 245Triclpheno | 20.000 | 20.791 | -4.0 | 100 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 100.000 | 99.238 | 0.8 | 97 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 20.000 | 20.192 | -1.0 | 98 | 0.00 |
| 46 | CPT | 2Nitroaniline | 20.000 | 19.707 | 1.5 | 97 | 0.00 |
| 47 | CPT | Acnaphthylene | 20.000 | 20.169 | -0.8 | 98 | 0.00 |
| 48 | CPT | Dimethylphtha | 20.000 | 20.189 | -0.9 | 97 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 20.000 | 20.055 | -0.3 | 96 | 0.00 |
| 50 | CPT | Acenaphthene | 20.000 | 20.017 | -0.1 | 98 | 0.00 |
| 51 | CPT | 3Nitroaniline | 20.000 | 20.623 | -3.1 | 101 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041025\2CCV405.D Vial: 16
Acq On : 10 Apr 2025 14:35 Operator: ALD
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 14:58:59 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 20.000 | 19.383 | 3.1 | 91 | 0.00 |
| 53 | CPT | Dibenzofuran | 20.000 | 20.242 | -1.2 | 99 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 20.000 | 20.881 | -4.4 | 97 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 20.000 | 19.724 | 1.4 | 95 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 20.000 | 21.062 | -5.3 | 101 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 20.000 | 20.655 | -3.3 | 101 | 0.00 |
| 58 | CPT | Fluorene | 20.000 | 20.304 | -1.5 | 98 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 20.000 | 20.413 | -2.1 | 99 | 0.00 |
| 60 | CPT | Diethylphthal | 20.000 | 20.135 | -0.7 | 98 | 0.00 |
| 61 | CPT | 4Nitroaniline | 20.000 | 20.771 | -3.9 | 103 | 0.00 |
| 62 | S | SURR246Tribrphenl | 50.000 | 52.526 | -5.1 | 101 | 0.00 |
| 63 | I | Phenanthrd10 | 20.000 | 20.000 | 0.0 | 98 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 20.000 | 18.904 | 5.5 | 92 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 40.000 | 40.957 | -2.4 | 99 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 40.000 | 40.106 | -0.3 | 97 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 20.000 | 20.358 | -1.8 | 98 | 0.00 |
| 68 | CPT | Hexaclbenzene | 20.000 | 20.582 | -2.9 | 101 | 0.00 |
| 69 | CPT | Pentaclphenol | 20.000 | 22.937 | -14.7 | 116 | 0.00 |
| 70 | CPT | Phenanthrene | 20.000 | 20.197 | -1.0 | 98 | 0.00 |
| 71 | CPT | Anthracene | 20.000 | 20.264 | -1.3 | 98 | 0.00 |
| 72 | CPT | Carbazole | 20.000 | 19.438 | 2.8 | 99 | 0.00 |
| 73 | CPT | Dinbtylphthal | 20.000 | 20.423 | -2.1 | 96 | 0.00 |
| 74 | CPT | Fluoranthene | 20.000 | 20.333 | -1.7 | 98 | 0.00 |
| 75 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 102 | 0.00 |
| 76 | CT | Benzidine | 20.000 | 19.287 | 3.6 | 102 | 0.00 |
| 77 | CPT | Pyrene | 20.000 | 19.975 | 0.1 | 99 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 100.000 | 100.183 | -0.2 | 98 | 0.00 |
| 79 | CPT | Btylbzylphth | 20.000 | 20.001 | -0.0 | 97 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 20.000 | 20.030 | -0.2 | 95 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 20.000 | 20.059 | -0.3 | 106 | 0.00 |
| 82 | CPT | B[a]anthracen | 20.000 | 19.897 | 0.5 | 100 | 0.00 |
| 83 | CPT | Chrysene | 20.000 | 19.686 | 1.6 | 101 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 20.000 | 20.358 | -1.8 | 100 | 0.00 |
| 85 | CPT | Dinoctylphthl | 20.000 | 19.420 | 2.9 | 98 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 101 | 0.00 |
| 87 | CPT | B[b]fluoranth | 20.000 | 20.337 | -1.7 | 98 | 0.00 |
| 88 | CPT | B[k]fluoranth | 20.000 | 20.008 | -0.0 | 99 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 20.000 | 20.438 | -2.2 | 99 | 0.00 |
| 90 | CPT | Indeno-pyrene | 20.000 | 20.623 | -3.1 | 110 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 20.000 | 20.938 | -4.7 | 109 | 0.00 |
| 92 | CPT | B[ghi]perylen | 20.000 | 20.418 | -2.1 | 110 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041025\2CCV405.D Vial: 16
Acq On : 10 Apr 2025 14:35 Operator: ALD
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 14:58:59 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 2 | CT | Ntrsdimeth | 0.774 | 0.797 | -3.0 | 99 | 0.00 |
| 3 | CT | Pyridine | 1.384 | 1.391 | -0.5 | 100 | 0.00 |
| 4 | S | SURR2Flphenol | 0.482 | 0.491 | -1.9 | 98 | 0.00 |
| 5 | CT | Aniline | 1.846 | 1.880 | -1.8 | 98 | 0.00 |
| 6 | CPT | bis2Clethletr | 1.215 | 1.215 | 0.0 | 98 | 0.00 |
| 7 | S | SURRPhenol-d5 | 0.579 | 0.600 | -3.6 | 101 | 0.00 |
| 8 | CPT | Phenol | 1.483 | 1.514 | -2.1 | 99 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 1.336 | 1.367 | -2.3 | 99 | 0.00 |
| 10 | CT | 13Diclbenz | 1.455 | 1.477 | -1.5 | 99 | 0.00 |
| 11 | CT | 14Diclbenz | 1.489 | 1.498 | -0.6 | 100 | 0.00 |
| 12 | CT | 12Diclbenz | 1.406 | 1.421 | -1.1 | 99 | 0.00 |
| 13 | CT | Benzyl alcoho | 0.860 | 0.882 | -2.6 | 97 | 0.00 |
| 14 | CPT | bis2clispreth | 2.300 | 2.242 | 2.5 | 96 | 0.00 |
| 15 | CPT | 2Methylphenol | 1.034 | 1.046 | -1.2 | 97 | 0.00 |
| 16 | CT | Ntrspyrrol | 0.646 | 0.654 | -1.2 | 96 | 0.00 |
| 17 | CPT | Acetophenone | 1.871 | 1.878 | -0.4 | 98 | 0.00 |
| 18 | CPT | Hexaclethane | 0.567 | 0.565 | 0.4 | 99 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 0.896 | 0.892 | 0.4 | 96 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 1.340 | 1.373 | -2.5 | 98 | 0.00 |
| 21 | I | Naphthalened8 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 0.054 | 0.055 | -1.9 | 97 | 0.00 |
| 23 | CPT | Nitrobenzene | 0.263 | 0.265 | -0.8 | 98 | 0.00 |
| 24 | CPT | Isophorone | 0.555 | 0.558 | -0.5 | 96 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 0.175 | 0.173 | 1.1 | 96 | 0.00 |
| 26 | CPT | 24Dimthpheno | 0.269 | 0.277 | -3.0 | 100 | 0.00 |
| 27 | CPT | bis2clethoxym | 0.346 | 0.352 | -1.7 | 98 | 0.00 |
| 28 | CPT | 24Diclphenol | 0.252 | 0.260 | -3.2 | 99 | 0.00 |
| 29 | CT | 124Triclbenz | 0.281 | 0.284 | -1.1 | 99 | 0.00 |
| 30 | CT | Benzoic acid | 0.135 | 0.157 | -16.3 | 107 | 0.00 |
| 31 | CPT | Naphthalene | 0.922 | 0.936 | -1.5 | 100 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 0.360 | 0.381 | -5.8 | 101 | 0.00 |
| 33 | CT | 26Diclphenol | 0.248 | 0.255 | -2.8 | 99 | 0.00 |
| 34 | CT | Hexaclprop | 0.181 | 0.188 | -3.9 | 97 | 0.00 |
| 35 | CPT | Hexaclbutdien | 0.165 | 0.170 | -3.0 | 101 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 0.254 | 0.262 | -3.1 | 97 | 0.00 |
| 37 | CPT | 2Methylnaphth | 0.557 | 0.561 | -0.7 | 98 | 0.00 |
| 38 | CT | 1Methylnaphth | 0.577 | 0.583 | -1.0 | 98 | 0.00 |
| 39 | I | Acenaphthened10 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 0.310 | 0.322 | -3.9 | 95 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 0.456 | 0.463 | -1.5 | 98 | 0.00 |
| 42 | CPT | 246Triclpheno | 0.306 | 0.318 | -3.9 | 99 | 0.00 |
| 43 | CPT | 245Triclpheno | 0.332 | 0.346 | -4.2 | 100 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 0.239 | 0.237 | 0.8 | 97 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 1.011 | 1.021 | -1.0 | 98 | 0.00 |
| 46 | CPT | 2Nitroaniline | 0.301 | 0.309 | -2.7 | 97 | 0.00 |
| 47 | CPT | Acnaphthylene | 1.619 | 1.632 | -0.8 | 98 | 0.00 |
| 48 | CPT | Dimethylphtha | 1.182 | 1.193 | -0.9 | 97 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 0.268 | 0.269 | -0.4 | 96 | 0.00 |
| 50 | CPT | Acenaphthene | 0.962 | 0.963 | -0.1 | 98 | 0.00 |
| 51 | CPT | 3Nitroaniline | 0.279 | 0.298 | -6.8 | 101 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041025\2CCV405.D Vial: 16
Acq On : 10 Apr 2025 14:35 Operator: ALD
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 14:58:59 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 0.092 | 0.094 | -2.2 | 91 | 0.00 |
| 53 | CPT | Dibenzofuran | 1.389 | 1.406 | -1.2 | 99 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 0.351 | 0.367 | -4.6 | 97 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 0.191 | 0.195 | -2.1 | 95 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 0.224 | 0.257 | -14.7 | 101 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 0.247 | 0.268 | -8.5 | 101 | 0.00 |
| 58 | CPT | Fluorene | 1.062 | 1.078 | -1.5 | 98 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 0.500 | 0.510 | -2.0 | 99 | 0.00 |
| 60 | CPT | Diethylphthal | 1.177 | 1.185 | -0.7 | 98 | 0.00 |
| 61 | CPT | 4Nitroaniline | 0.242 | 0.264 | -9.1 | 103 | 0.00 |
| 62 | S | SURR246Tribrphenl | 0.054 | 0.056 | -3.7 | 101 | 0.00 |
| 63 | I | Phenanthrd10 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 0.111 | 0.111 | 0.0 | 92 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 0.516 | 0.528 | -2.3 | 99 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 0.184 | 0.184 | 0.0 | 97 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 0.188 | 0.191 | -1.6 | 98 | 0.00 |
| 68 | CPT | Hexaclbenzene | 0.210 | 0.216 | -2.9 | 101 | 0.00 |
| 69 | CPT | Pentaclphenol | 0.081 | 0.101 | -24.7# | 116 | 0.00 |
| 70 | CPT | Phenanthrene | 0.974 | 0.984 | -1.0 | 98 | 0.00 |
| 71 | CPT | Anthracene | 0.991 | 1.004 | -1.3 | 98 | 0.00 |
| 72 | CPT | Carbazole | 0.844 | 0.820 | 2.8 | 99 | 0.00 |
| 73 | CPT | Dinbtylphthal | 1.181 | 1.206 | -2.1 | 96 | 0.00 |
| 74 | CPT | Fluoranthene | 1.029 | 1.046 | -1.7 | 98 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 76 | CT | Benzidine | 0.293 | 0.264 | 9.9 | 102 | 0.00 |
| 77 | CPT | Pyrene | 1.270 | 1.269 | 0.1 | 99 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 0.195 | 0.195 | 0.0 | 98 | 0.00 |
| 79 | CPT | Btylbzylphth | 0.628 | 0.628 | 0.0 | 97 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 0.576 | 0.577 | -0.2 | 95 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 0.316 | 0.301 | 4.7 | 106 | 0.00 |
| 82 | CPT | B[a]anthracen | 1.204 | 1.198 | 0.5 | 100 | 0.00 |
| 83 | CPT | Chrysene | 1.129 | 1.112 | 1.5 | 101 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 0.916 | 0.933 | -1.9 | 100 | 0.00 |
| 85 | CPT | Dinoctylphthl | 1.512 | 1.534 | -1.5 | 98 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 87 | CPT | B[b]fluoranth | 1.059 | 1.077 | -1.7 | 98 | 0.00 |
| 88 | CPT | B[k]fluoranth | 1.061 | 1.062 | -0.1 | 99 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 0.974 | 0.996 | -2.3 | 99 | 0.00 |
| 90 | CPT | Indeno-pyrene | 1.078 | 1.111 | -3.1 | 110 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 0.881 | 0.922 | -4.7 | 109 | 0.00 |
| 92 | CPT | B[ghi]perylen | 0.844 | 0.862 | -2.1 | 110 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\2CCV405.D Vial: 16
Acq On : 10 Apr 2025 14:35 Operator: ALD
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 14:58:59 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.332 | 152 | 181535 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.026 | 136 | 863181 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.801 | 164 | 480355 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.850 | 188 | 695827 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.734 | 240 | 598215 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.302 | 264 | 619102 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.088 | 112 | 222894 | 51.00 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.00% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 272093 | 51.79 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.79% | | | |
| 22) SURRNitrbenzened5 | 5.020 | 82 | 235616 | 100.18 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 100.18% | | | |
| 44) SURR2Flbiphenyl | 7.216 | 172 | 568712 | 99.24 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 99.24% | | | |
| 62) SURR246Tribrphenl | 8.401 | 330 | 67538 | 52.53 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 52.53% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 584394 | 100.18 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 100.18% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.289 | 74 | 144623 | 20.5752 | ug/mL | 99 |
| 3) Pyridine | 2.309 | 79 | 252578 | 20.1104 | ug/mL | 100 |
| 5) Aniline | 3.968 | 93 | 341239 | 20.3658 | ug/mL | 100 |
| 6) bis2Clethletr | 4.037 | 93 | 220532 | 20.0009 | ug/mL | 97 |
| 8) Phenol | 3.929 | 94 | 274786 | 20.4134 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.091 | 128 | 248163 | 20.4703 | ug/mL | 99 |
| 10) 13Diclbenz | 4.267 | 146 | 268125 | 20.3069 | ug/mL | 98 |
| 11) 14Diclbenz | 4.352 | 146 | 272015 | 20.1308 | ug/mL | 99 |
| 12) 12Diclbenz | 4.528 | 146 | 257932 | 20.2117 | ug/mL | 98 |
| 13) Benzyl alcoho | 4.494 | 108 | 160105 | 20.5127 | ug/mL | 100 |
| 14) bis2clispreth | 4.667 | 45 | 406976 | 19.4962 | ug/mL | 96 |
| 15) 2Methylphenol | 4.633 | 107 | 189842 | 20.2241 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.801 | 100 | 118792 | 20.2704 | ug/mL | 99 |
| 17) Acetophenone | 4.829 | 105 | 340833 | 20.0747 | ug/mL | 99 |
| 18) Hexaclethane | 4.952 | 117 | 102609 | 19.9504 | ug/mL | 98 |
| 19) N-Ntrsdinprop | 4.841 | 70 | 161885 | 19.9002 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.841 | 107 | 249162 | 20.4780 | ug/mL | 98 |
| 23) Nitrobenzene | 5.045 | 77 | 228953 | 20.1469 | ug/mL | 98 |
| 24) Isophorone | 5.406 | 82 | 481751 | 20.1224 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.511 | 139 | 149358 | 19.7891 | ug/mL | 96 |
| 26) 24Dimthpheno | 5.608 | 122 | 239025 | 20.6043 | ug/mL | 96 |
| 27) bis2clethoxym | 5.744 | 93 | 303475 | 20.3442 | ug/mL | 98 |
| 28) 24Diclphenol | 5.852 | 162 | 224437 | 20.6719 | ug/mL | 98 |
| 29) 124Triclbenz | 5.960 | 180 | 245306 | 20.2072 | ug/mL | 99 |
| 30) Benzoic acid | 5.770 | 122 | 135914 | 21.4719 | ug/mL | 94 |
| 31) Naphthalene | 6.051 | 128 | 808177 | 20.3013 | ug/mL | 100 |
| 32) 4-Cl-aniline | 6.136 | 127 | 329262 | 21.1959 | ug/mL | 97 |
| 33) 26Diclphenol | 6.142 | 162 | 220414 | 20.6164 | ug/mL | 98 |
| 34) Hexaclprop | 6.168 | 213 | 162211 | 20.7965 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.224 | 225 | 146705 | 20.6378 | ug/mL | 96 |
| 36) 4Cl3methylphe | 6.713 | 107 | 226437 | 20.6791 | ug/mL | 98 |
| 37) 2Methylnaphth | 6.844 | 142 | 484179 | 20.1238 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.941 | 142 | 503215 | 20.2231 | ug/mL | 96 |
| 40) Hxclcycpentdi | 7.009 | 237 | 154692 | 20.7740 | ug/mL | 100 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\2CCV405.D Vial: 16
Acq On : 10 Apr 2025 14:35 Operator: ALD
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 14:58:59 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

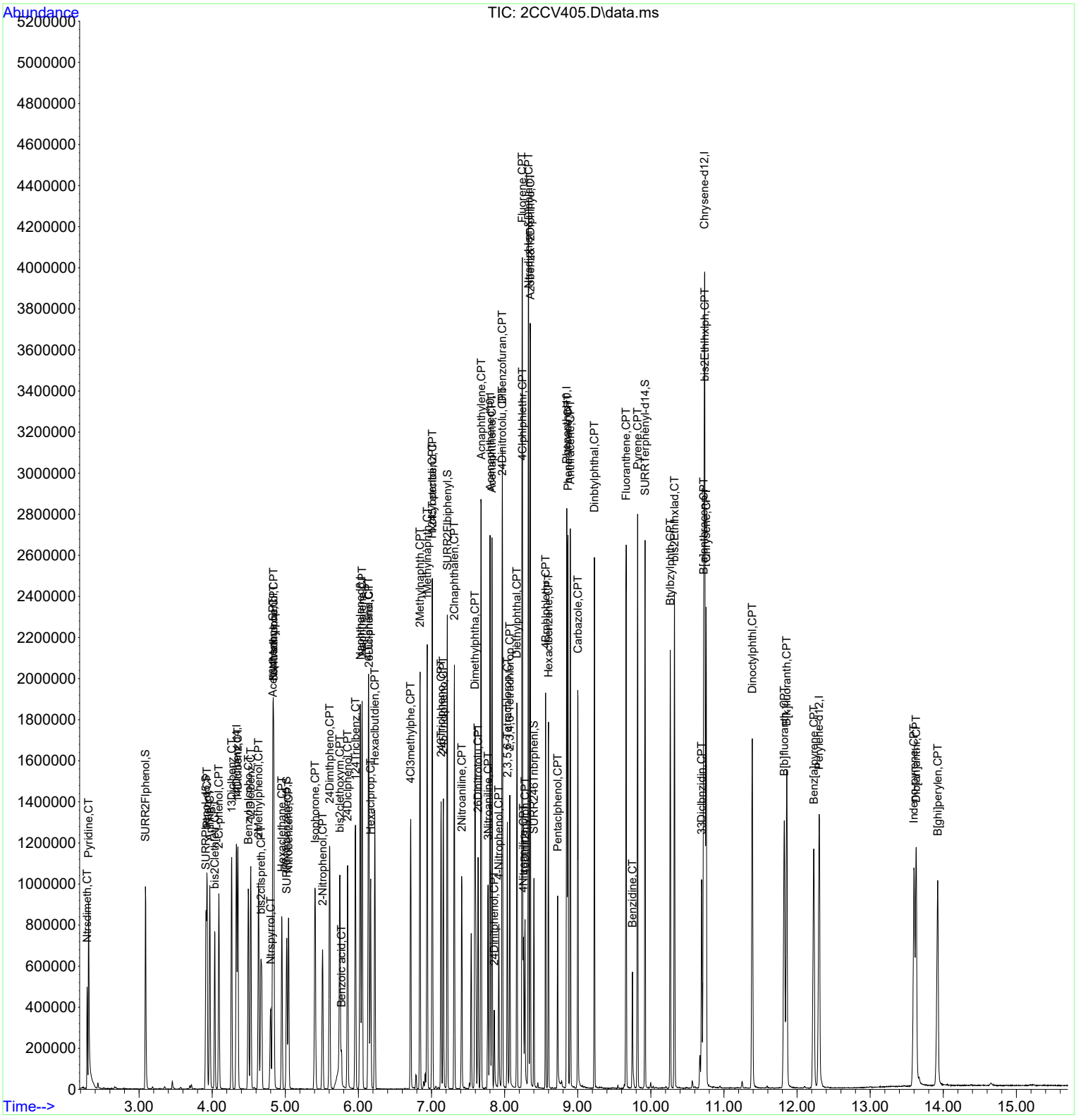
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.012 | 216 | 222184 | 20.2969 | ug/mL | 100 |
| 42) 246Triclpheno | 7.131 | 196 | 152720 | 20.7863 | ug/mL | 94 |
| 43) 245Triclpheno | 7.162 | 196 | 166029 | 20.7907 | ug/mL | 95 |
| 45) 2Clnaphthalen | 7.313 | 162 | 490412 | 20.1917 | ug/mL | 99 |
| 46) 2Nitroaniline | 7.412 | 65 | 148259 | 19.7072 | ug/mL | 98 |
| 47) Acnaphthylene | 7.679 | 152 | 784092 | 20.1689 | ug/mL | 99 |
| 48) Dimethylphtha | 7.594 | 163 | 573281 | 20.1888 | ug/mL | 99 |
| 49) 26Dinitrotolu | 7.637 | 165 | 129245 | 20.0547 | ug/mL | 98 |
| 50) Acenaphthene | 7.827 | 154 | 462497 | 20.0175 | ug/mL | 98 |
| 51) 3Nitroaniline | 7.773 | 138 | 143260 | 20.6230 | ug/mL | 97 |
| 52) 24Dinitphenol | 7.858 | 184 | 45054 | 19.3828 | ug/mL | 95 |
| 53) Dibenzofuran | 7.969 | 168 | 675388 | 20.2423 | ug/mL | 99 |
| 54) 24Dinitrotolu | 7.966 | 165 | 176130 | 20.8812 | ug/mL | 97 |
| 55) 4-Nitrophenol | 7.921 | 65 | 93482 | 19.7236 | ug/mL | 99 |
| 56) 2,3,5,6-Tetrachlorop | 8.037 | 232 | 123514 | 21.0621 | ug/mL | 97 |
| 57) 2,3,4,6-Tetrachlorop | 8.071 | 232 | 128887 | 20.6553 | ug/mL | 95 |
| 58) Fluorene | 8.239 | 166 | 517864 | 20.3036 | ug/mL | 97 |
| 59) 4Clphlphlethr | 8.245 | 204 | 245213 | 20.4132 | ug/mL | 95 |
| 60) Diethylphthal | 8.168 | 149 | 568982 | 20.1355 | ug/mL | 100 |
| 61) 4Nitroaniline | 8.256 | 138 | 126683 | 20.7709 | ug/mL | 97 |
| 64) 46Dinit2mylph | 8.279 | 198 | 77342 | 18.9044 | ug/mL | 97 |
| 65) Ntrsdiphlam&Diphlam | 8.327 | 169 | 734783 | 40.9573 | ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.353 | 182 | 256570 | 40.1065 | ug/mL | 89 |
| 67) 4Brphlphlethr | 8.560 | 248 | 133005 | 20.3578 | ug/mL | 96 |
| 68) Hexaclbenzene | 8.600 | 284 | 150399 | 20.5824 | ug/mL | 97 |
| 69) Pentaclphenol | 8.725 | 266 | 70147 | 22.9369 | ug/mL | 96 |
| 70) Phenanthrene | 8.867 | 178 | 684689 | 20.1971 | ug/mL | 99 |
| 71) Anthracene | 8.898 | 178 | 698934 | 20.2643 | ug/mL | 99 |
| 72) Carbazole | 9.003 | 167 | 570888 | 19.4378 | ug/mL | 99 |
| 73) Dinbtylphthal | 9.228 | 149 | 839085 | 20.4226 | ug/mL | 99 |
| 74) Fluoranthene | 9.663 | 202 | 727857 | 20.3328 | ug/mL | 99 |
| 76) Benzidine | 9.748 | 184 | 158129 | 19.2868 | ug/mL | 98 |
| 77) Pyrene | 9.819 | 202 | 758987 | 19.9747 | ug/mL | 99 |
| 79) Btylbzylphth | 10.265 | 149 | 375757 | 20.0009 | ug/mL | 99 |
| 80) bis2Ethlhxlad | 10.325 | 129 | 344980 | 20.0302 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.694 | 252 | 180214 | 20.0591 | ug/mL | 98 |
| 82) B[a]anthracen | 10.723 | 228 | 716596 | 19.8966 | ug/mL | 100 |
| 83) Chrysene | 10.757 | 228 | 664936 | 19.6857 | ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.740 | 149 | 558021 | 20.3584 | ug/mL | 100 |
| 85) Dinoctylphthl | 11.387 | 149 | 917486 | 19.4196 | ug/mL | 99 |
| 87) B[b]fluoranth | 11.825 | 252 | 666935 | 20.3365 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.859 | 252 | 657429 | 20.0084 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.228 | 252 | 616395 | 20.4378 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.598 | 276 | 687938 | 20.6230 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.629 | 278 | 570931 | 20.9381 | ug/mL | 98 |
| 92) B[ghi]perylen | 13.925 | 276 | 533630 | 20.4182 | ug/mL | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\2CCV405.D Vial: 16
Acq On : 10 Apr 2025 14:35 Operator: ALD
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 14:58:59 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Ending CCV %Recovery Report

| | |
|---|---|
| Data File Name | 2CCV406.D |
| Data File Path | C:\INSTARCH\DATA\2S041025\ |
| Operator | ALD |
| Date Acquired | 4/11/2025 1:50 |
| Acq. Method File | 2S040925.M |
| Sample Name | CCV 20 ug/mL SVMS10298 |
| Misc Info | 500 ul + 5ul IS S5036C |
| Vial Number | 45 |
| Instrument Name | SVMS2 |
| Sample Multiplier | 1 |

| # | Name | Ret Time | Amount | Units | Response | 50-150 %REC |
|---|---|---|---|---|---|---|
| 1 | 14Diclbenzd4 | 4.33 | 20.00 | ug/mL | 172890 | ISTD |
| 2 | Ntrsdimeth | 2.29 | 20.17 | ug/mL | 135015 | 101 |
| 3 | Pyridine | 2.31 | 19.82 | ug/mL | 237125 | 99 |
| 4 | SURR2Flphenol | 3.09 | 50.96 | %REC | 212135 | 102 |
| 5 | Aniline | 3.97 | 20.40 | ug/mL | 325547 | 102 |
| 6 | bis2Clethletr | 4.04 | 20.16 | ug/mL | 211746 | 101 |
| 7 | SURRPhenol-d5 | 3.92 | 51.40 | %REC | 257182 | 103 |
| 8 | Phenol | 3.93 | 19.86 | ug/mL | 254669 | 99 |
| 9 | 2-Cl-phenol | 4.09 | 20.30 | ug/mL | 234335 | 101 |
| 10 | 13Diclbenz | 4.27 | 20.28 | ug/mL | 255025 | 101 |
| 11 | 14Diclbenz | 4.35 | 20.07 | ug/mL | 258269 | 100 |
| 12 | 12Diclbenz | 4.53 | 20.55 | ug/mL | 249816 | 103 |
| 13 | Benzyl alcoho | 4.50 | 21.32 | ug/mL | 158447 | 107 |
| 14 | bis2clispreth | 4.67 | 19.74 | ug/mL | 392462 | 99 |
| 15 | 2Methylphenol | 4.64 | 20.78 | ug/mL | 185786 | 104 |
| 16 | Ntrspyrrol | 4.80 | 21.00 | ug/mL | 117193 | 105 |
| 17 | Acetophenone | 4.83 | 20.75 | ug/mL | 335445 | 104 |
| 18 | Hexaclethane | 4.95 | 19.19 | ug/mL | 94014 | 96 |
| 19 | N-Ntrsdinprop | 4.84 | 20.00 | ug/mL | 154962 | 100 |
| 20 | 3&4Methylphenol | 4.84 | 21.27 | ug/mL | 246440 | 106 |
| 21 | Naphthalened8 | 6.03 | 20.00 | ug/mL | 836933 | ISTD |
| 22 | SURRNitrbenzened5 | 5.02 | 101.80 | %REC | 232153 | 102 |
| 23 | Nitrobenzene | 5.05 | 20.40 | ug/mL | 224758 | 102 |
| 24 | Isophorone | 5.41 | 20.39 | ug/mL | 473379 | 102 |
| 25 | 2-Nitrophenol | 5.51 | 20.14 | ug/mL | 147384 | 101 |
| 26 | 24Dimthpheno | 5.61 | 20.90 | ug/mL | 235046 | 104 |
| 27 | bis2clethoxym | 5.75 | 20.31 | ug/mL | 293813 | 102 |
| 28 | 24Diclphenol | 5.86 | 20.86 | ug/mL | 219610 | 104 |
| 29 | 124Triclbenz | 5.96 | 20.54 | ug/mL | 172890 | 103 |
| 30 | Benzoic acid | 5.78 | 22.78 | ug/mL | 241821 | 114 |
| 31 | Naphthalene | 6.05 | 20.20 | ug/mL | 779764 | 101 |
| 32 | 4-Cl-aniline | 6.14 | 21.58 | ug/mL | 325022 | 108 |
| 33 | 26Diclphenol | 6.15 | 20.57 | ug/mL | 213281 | 103 |
| 34 | Hexaclprop | 6.17 | 14.57 | ug/mL | 110214 | 73 |
| 35 | Hexaclbutdien | 6.22 | 20.89 | ug/mL | 144005 | 104 |
| 36 | 4Cl3methylphe | 6.72 | 21.33 | ug/mL | 226501 | 107 |
| 37 | 2Methylnaphth | 6.84 | 20.46 | ug/mL | 477314 | 102 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | 1Methylnaphth | 6.94 | 20.48 | ug/mL | 494002 | 102 | |
| 39 | Acenaphthened10 | 7.80 | 20.00 | ug/mL | 172890 | ISTD | |
| 40 | Hxclcycpentdi | 7.01 | 9.58 | ug/mL | 471882 | 48 | # |
| 41 | 1245Tetrclbenz | 7.01 | 20.40 | ug/mL | 219363 | 102 | |
| 42 | 246Triclpheno | 7.13 | 21.35 | ug/mL | 154067 | 107 | |
| 43 | 245Triclpheno | 7.17 | 20.91 | ug/mL | 164069 | 105 | |
| 44 | SURR2Flbiphenyl | 7.22 | 101.10 | %REC | 569174 | 101 | |
| 45 | 2Clnaphthalen | 7.31 | 20.33 | ug/mL | 484996 | 102 | |
| 46 | 2Nitroaniline | 7.42 | 20.38 | ug/mL | 150804 | 102 | |
| 47 | Acnaphthylene | 7.68 | 20.43 | ug/mL | 172890 | 102 | |
| 48 | Dimethylphtha | 7.59 | 20.24 | ug/mL | 780247 | 101 | |
| 49 | 26Dinitrotolu | 7.64 | 20.18 | ug/mL | 127753 | 101 | |
| 50 | Acenaphthene | 7.83 | 19.90 | ug/mL | 451724 | 100 | |
| 51 | 3Nitroaniline | 7.78 | 21.91 | ug/mL | 149852 | 110 | |
| 52 | 24Dinitphenol | 7.86 | 15.71 | ug/mL | 32957 | 79 | |
| 53 | Dibenzofuran | 7.97 | 20.09 | ug/mL | 658404 | 100 | |
| 54 | 24Dinitrotolu | 7.97 | 20.86 | ug/mL | 172890 | 104 | |
| 55 | 4-Nitrophenol | 7.93 | 20.55 | ug/mL | 172830 | 103 | |
| 56 | 2,3,5,6-Tetrachlorop | 8.04 | 23.04 | ug/mL | 133541 | 115 | |
| 57 | 2,3,4,6-Tetrachlorop | 8.07 | 21.53 | ug/mL | 132060 | 108 | |
| 58 | Fluorene | 8.24 | 20.50 | ug/mL | 513725 | 103 | |
| 59 | 4Clphlphlethr | 8.24 | 20.13 | ug/mL | 237543 | 101 | |
| 60 | Diethylphthal | 8.17 | 20.11 | ug/mL | 558364 | 101 | |
| 61 | 4Nitroaniline | 8.26 | 23.34 | ug/mL | 140543 | 117 | |
| 62 | SURR246Tribrphenl | 8.40 | 54.60 | %REC | 68969 | 109 | |
| 63 | Phenanthrd10 | 8.85 | 20.00 | ug/mL | 696725 | ISTD | |
| 64 | 46Dinit2mylph | 8.28 | 13.96 | ug/mL | 54313 | 70 | |
| 65 | Ntrsdiphlam&Diphlam | 8.33 | 40.88 | ug/mL | 734260 | 102 | |
| 66 | Azobenz&12Diphlhyd | 8.35 | 39.23 | ug/mL | 251292 | 98 | |
| 67 | 4Brphlphlethr | 8.56 | 20.61 | ug/mL | 134798 | 103 | |
| 68 | Hexaclbenzene | 8.60 | 20.23 | ug/mL | 148048 | 101 | |
| 69 | Pentaclphenol | 8.73 | 24.86 | ug/mL | 77763 | 124 | |
| 70 | Phenanthrene | 8.87 | 19.84 | ug/mL | 673413 | 99 | |
| 71 | Anthracene | 8.90 | 20.50 | ug/mL | 707999 | 103 | |
| 72 | Carbazole | 9.00 | 21.50 | ug/mL | 632223 | 107 | |
| 73 | Dinbtylphthal | 9.23 | 20.69 | ug/mL | 851359 | 103 | |
| 74 | Fluoranthene | 9.66 | 20.67 | ug/mL | 740821 | 103 | |
| 75 | Chrysene-d12 | 10.73 | 20.00 | ug/mL | 565175 | ISTD | |
| 76 | Benzidine | 9.75 | 32.14 | ug/mL | 283665 | 161 | # |
| 77 | Pyrene | 9.82 | 21.03 | ug/mL | 755030 | 105 | |
| 78 | SURRTerphenyl-d14 | 9.92 | 109.05 | %REC | 601011 | 109 | |
| 79 | Btylbzylphth | 10.27 | 21.90 | ug/mL | 388781 | 110 | |
| 80 | bis2Ethlhxlad | 10.32 | 21.78 | ug/mL | 354321 | 109 | |
| 81 | 33Diclbnzidin | 10.69 | 27.45 | ug/mL | 244552 | 137 | |
| 82 | B[a]anthracen | 10.72 | 20.21 | ug/mL | 687793 | 101 | |
| 83 | Chrysene | 10.76 | 19.86 | ug/mL | 633793 | 99 | |
| 84 | bis2Ethlhxlph | 10.74 | 21.82 | ug/mL | 565084 | 109 | |
| 85 | Dinoctylphthl | 11.38 | 20.78 | ug/mL | 930284 | 104 | |
| 86 | Perylene-d12 | 12.30 | 20.00 | ug/mL | 354197 | ISTD | |
| 87 | B[b]fluoranth | 11.83 | 24.68 | ug/mL | 462984 | 123 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 88 | B[k]fluoranth | 11.86 | 25.30 | ug/mL | 475594 | 126 | |
| 89 | Benz[a]pyrene | 12.23 | 21.23 | ug/mL | 366367 | 106 | |
| 90 | Indeno-pyrene | 13.60 | 11.00 | ug/mL | 209864 | 55 | |
| 91 | Dib[ah]anthr | 13.62 | 11.92 | ug/mL | 185877 | 60 | |
| 92 | B[ghi]perylen | 13.91 | 8.72 | ug/mL | 130360 | 44 | # |

(#) = recovery out of range Average Percent Recovery = 102

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\2CCV406.D Vial: 45
Acq On : 11 Apr 2025 1:50 Operator: ALD
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 02:06:59 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.332 | 152 | 172890 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.026 | 136 | 836933 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.802 | 164 | 471882 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.850 | 188 | 696725 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.734 | 240 | 565175 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.300 | 264 | 354197 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.090 | 112 | 212135 | 50.96 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.96% | | | |
| 7) SURRPhenol-d5 | 3.920 | 99 | 257182 | 51.40 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.40% | | | |
| 22) SURRNitrbenzened5 | 5.023 | 82 | 232153 | 101.80 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.80% | | | |
| 44) SURR2Flbiphenyl | 7.216 | 172 | 569174 | 101.10 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.10% | | | |
| 62) SURR246Tribrphenl | 8.401 | 330 | 68969 | 54.60 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 54.60% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 601011 | 109.05 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 109.05% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.286 | 74 | 135015 | 20.1688 | ug/mL | 95 |
| 3) Pyridine | 2.309 | 79 | 237125 | 19.8241 | ug/mL | 97 |
| 5) Aniline | 3.968 | 93 | 325547 | 20.4007 | ug/mL | 100 |
| 6) bis2Clethletr | 4.037 | 93 | 211746 | 20.1643 | ug/mL | 97 |
| 8) Phenol | 3.934 | 94 | 254669 | 19.8650 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.093 | 128 | 234335 | 20.2962 | ug/mL | 99 |
| 10) 13Diclbenz | 4.267 | 146 | 255025 | 20.2805 | ug/mL | 98 |
| 11) 14Diclbenz | 4.352 | 146 | 258269 | 20.0692 | ug/mL | 98 |
| 12) 12Diclbenz | 4.528 | 146 | 249816 | 20.5546 | ug/mL | 99 |
| 13) Benzyl alcoho | 4.497 | 108 | 158447 | 21.3154 | ug/mL | 98 |
| 14) bis2clispreth | 4.673 | 45 | 392462 | 19.7410 | ug/mL | 98 |
| 15) 2Methylphenol | 4.639 | 107 | 185786 | 20.7816 | ug/mL | 99 |
| 16) Ntrspyrrol | 4.804 | 100 | 117193 | 20.9975 | ug/mL | 96 |
| 17) Acetophenone | 4.829 | 105 | 335445 | 20.7452 | ug/mL | 96 |
| 18) Hexaclethane | 4.952 | 117 | 94014 | 19.1933 | ug/mL | 93 |
| 19) N-Ntrsdinprop | 4.841 | 70 | 154962 | 20.0017 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.844 | 107 | 246440 | 21.2671 | ug/mL | 94 |
| 23) Nitrobenzene | 5.048 | 77 | 224758 | 20.3981 | ug/mL | 98 |
| 24) Isophorone | 5.409 | 82 | 473379 | 20.3928 | ug/mL | 100 |
| 25) 2-Nitrophenol | 5.511 | 139 | 147384 | 20.1400 | ug/mL | 97 |
| 26) 24Dimthpheno | 5.608 | 122 | 235046 | 20.8967 | ug/mL | 97 |
| 27) bis2clethoxym | 5.747 | 93 | 293813 | 20.3142 | ug/mL | 99 |
| 28) 24Diclphenol | 5.855 | 162 | 219610 | 20.8616 | ug/mL | 98 |
| 29) 124Triclbenz | 5.960 | 180 | 241821 | 20.5449 | ug/mL | 99 |
| 30) Benzoic acid | 5.776 | 122 | 141106 | 22.7760 | ug/mL | 89 |
| 31) Naphthalene | 6.051 | 128 | 779764 | 20.2018 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.139 | 127 | 325022 | 21.5791 | ug/mL | 98 |
| 33) 26Diclphenol | 6.145 | 162 | 213281 | 20.5749 | ug/mL | 99 |
| 34) Hexaclprop | 6.168 | 213 | 110214 | 14.5733 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.225 | 225 | 144005 | 20.8933 | ug/mL | 96 |
| 36) 4Cl3methylphe | 6.719 | 107 | 226501 | 21.3337 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.844 | 142 | 477314 | 20.4606 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.941 | 142 | 494002 | 20.4755 | ug/mL | 100 |
| 40) Hxclcycpentdi | 7.009 | 237 | 70109 | 9.5842 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\2CCV406.D Vial: 45
Acq On : 11 Apr 2025 1:50 Operator: ALD
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 02:06:59 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

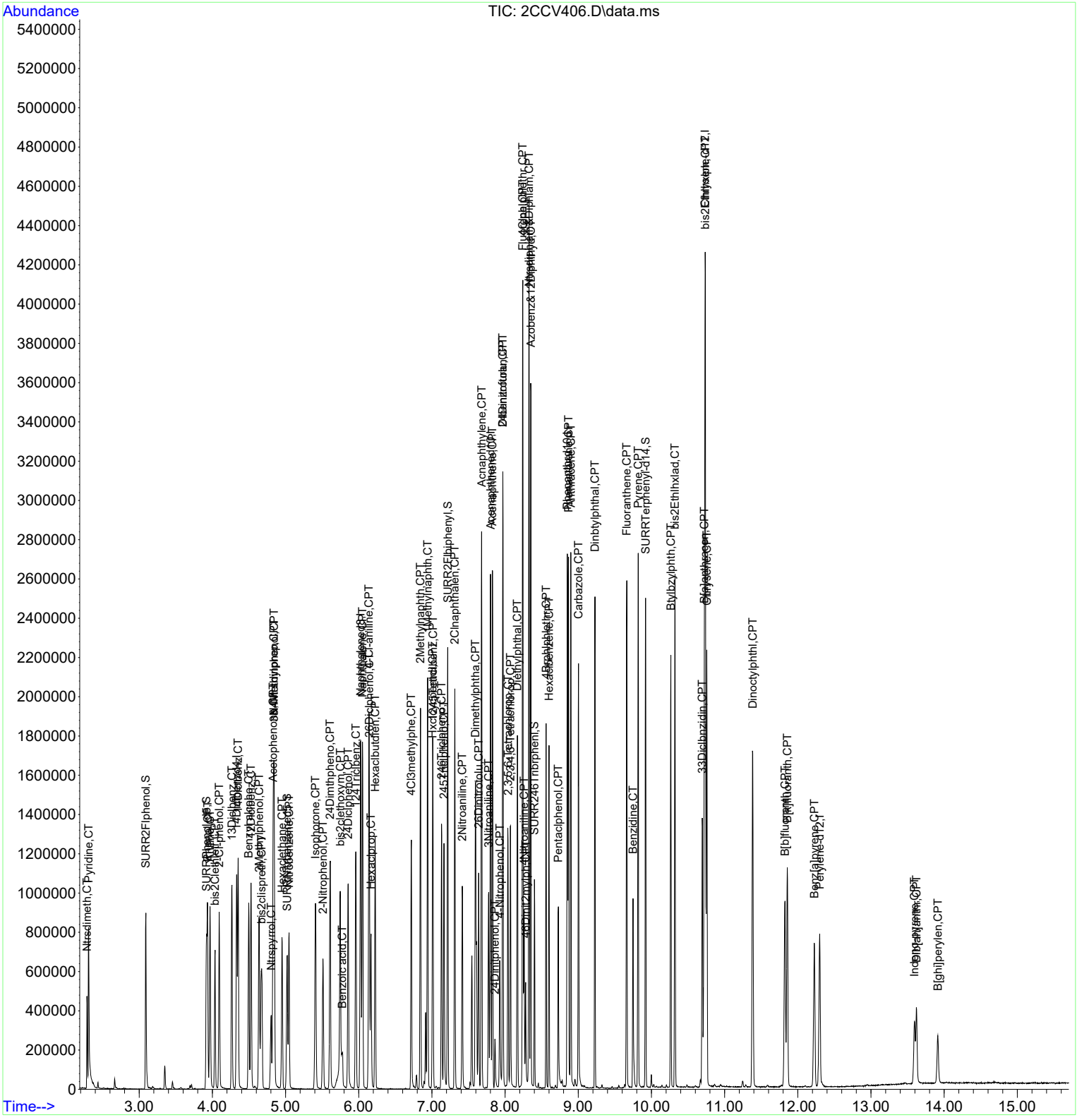
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.014 | 216 | 219363 | 20.3990 ug/mL | 97 |
| 42) 246Triclpheno | 7.131 | 196 | 154067 | 21.3462 ug/mL | 97 |
| 43) 245Triclpheno | 7.165 | 196 | 164069 | 20.9142 ug/mL | 98 |
| 45) 2Clnaphthalen | 7.313 | 162 | 484996 | 20.3273 ug/mL | 99 |
| 46) 2Nitroaniline | 7.415 | 65 | 150804 | 20.3841 ug/mL | 98 |
| 47) Acnaphthylene | 7.679 | 152 | 780247 | 20.4303 ug/mL | 99 |
| 48) Dimethylphtha | 7.594 | 163 | 564642 | 20.2417 ug/mL | 100 |
| 49) 26Dinitrotolu | 7.640 | 165 | 127753 | 20.1792 ug/mL | 96 |
| 50) Acenaphthene | 7.827 | 154 | 451724 | 19.9023 ug/mL | 96 |
| 51) 3Nitroaniline | 7.776 | 138 | 149852 | 21.9087 ug/mL | 99 |
| 52) 24Dinitphenol | 7.861 | 184 | 32957 | 15.7100 ug/mL | 96 |
| 53) Dibenzofuran | 7.969 | 168 | 658404 | 20.0876 ug/mL | 99 |
| 54) 24Dinitrotolu | 7.969 | 165 | 172830 | 20.8578 ug/mL | 99 |
| 55) 4-Nitrophenol | 7.929 | 65 | 95934 | 20.5529 ug/mL | 95 |
| 56) 2,3,5,6-Tetrachlorop | 8.040 | 232 | 133541 | 23.0365 ug/mL | 95 |
| 57) 2,3,4,6-Tetrachlorop | 8.074 | 232 | 132060 | 21.5264 ug/mL | 97 |
| 58) Fluorene | 8.239 | 166 | 513725 | 20.5029 ug/mL | 98 |
| 59) 4Clphlphlethr | 8.242 | 204 | 237543 | 20.1298 ug/mL | 97 |
| 60) Diethylphthal | 8.168 | 149 | 558364 | 20.1145 ug/mL | 99 |
| 61) 4Nitroaniline | 8.259 | 138 | 140543 | 23.3378 ug/mL | 98 |
| 64) 46Dinit2mylph | 8.282 | 198 | 54313 | 13.9598 ug/mL | 97 |
| 65) Ntrsdiphlam&Diphlam | 8.327 | 169 | 734260 | 40.8754 ug/mL | 100 |
| 66) Azobenz&12Diphlhyd | 8.353 | 182 | 251292 | 39.2308 ug/mL# | 87 |
| 67) 4Brphlphlethr | 8.560 | 248 | 134798 | 20.6057 ug/mL | 96 |
| 68) Hexaclbenzene | 8.600 | 284 | 148048 | 20.2346 ug/mL | 99 |
| 69) Pentaclphenol | 8.728 | 266 | 77763 | 24.8637 ug/mL | 97 |
| 70) Phenanthrene | 8.867 | 178 | 673413 | 19.8389 ug/mL | 99 |
| 71) Anthracene | 8.898 | 178 | 707999 | 20.5006 ug/mL | 99 |
| 72) Carbazole | 9.003 | 167 | 632223 | 21.4985 ug/mL | 99 |
| 73) Dinbtylphthal | 9.228 | 149 | 851359 | 20.6947 ug/mL | 99 |
| 74) Fluoranthene | 9.663 | 202 | 740821 | 20.6683 ug/mL | 99 |
| 76) Benzidine | 9.748 | 184 | 283665 | 32.1448 ug/mL | 99 |
| 77) Pyrene | 9.819 | 202 | 755030 | 21.0321 ug/mL | 100 |
| 79) Btylbzylphth | 10.265 | 149 | 388781 | 21.9039 ug/mL | 96 |
| 80) bis2Ethlhxlad | 10.322 | 129 | 354321 | 21.7753 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.694 | 252 | 244552 | 27.4546 ug/mL | 98 |
| 82) B[a]anthracen | 10.723 | 228 | 687793 | 20.2133 ug/mL | 98 |
| 83) Chrysene | 10.757 | 228 | 633793 | 19.8606 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.737 | 149 | 565084 | 21.8212 ug/mL | 99 |
| 85) Dinoctylphthl | 11.385 | 149 | 930284 | 20.7753 ug/mL | 100 |
| 87) B[b]fluoranth | 11.825 | 252 | 462984 | 24.6761 ug/mL | 99 |
| 88) B[k]fluoranth | 11.856 | 252 | 475594 | 25.2998 ug/mL | 100 |
| 89) Benz[a]pyrene | 12.226 | 252 | 366367 | 21.2328 ug/mL | 99 |
| 90) Indeno-pyrene | 13.595 | 276 | 209864 | 10.9966 ug/mL | 98 |
| 91) Dib[ah]anthr | 13.621 | 278 | 185877 | 11.9150 ug/mL | 99 |
| 92) B[ghi]perylen | 13.913 | 276 | 130360 | 8.7185 ug/mL | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\2CCV406.D Vial: 45
Acq On : 11 Apr 2025 1:50 Operator: ALD
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 02:06:59 2025

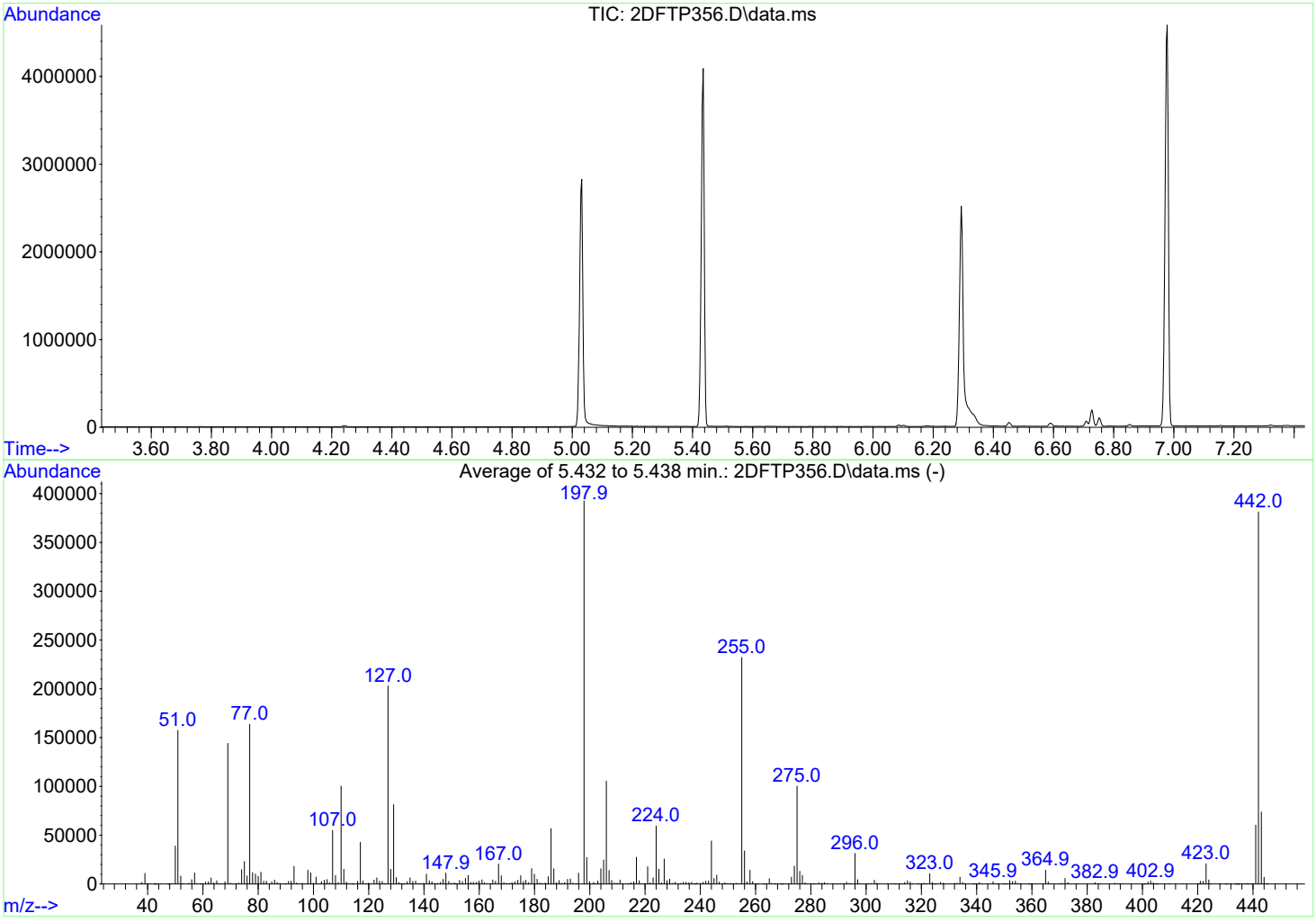
Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Data Path : C:\INSTARCH\DATA\2S041125\
Data File : 2DFTP356.D
Acq On : 11 Apr 2025 11:11
Operator : JJY
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Fri Apr 11 11:23:03 2025



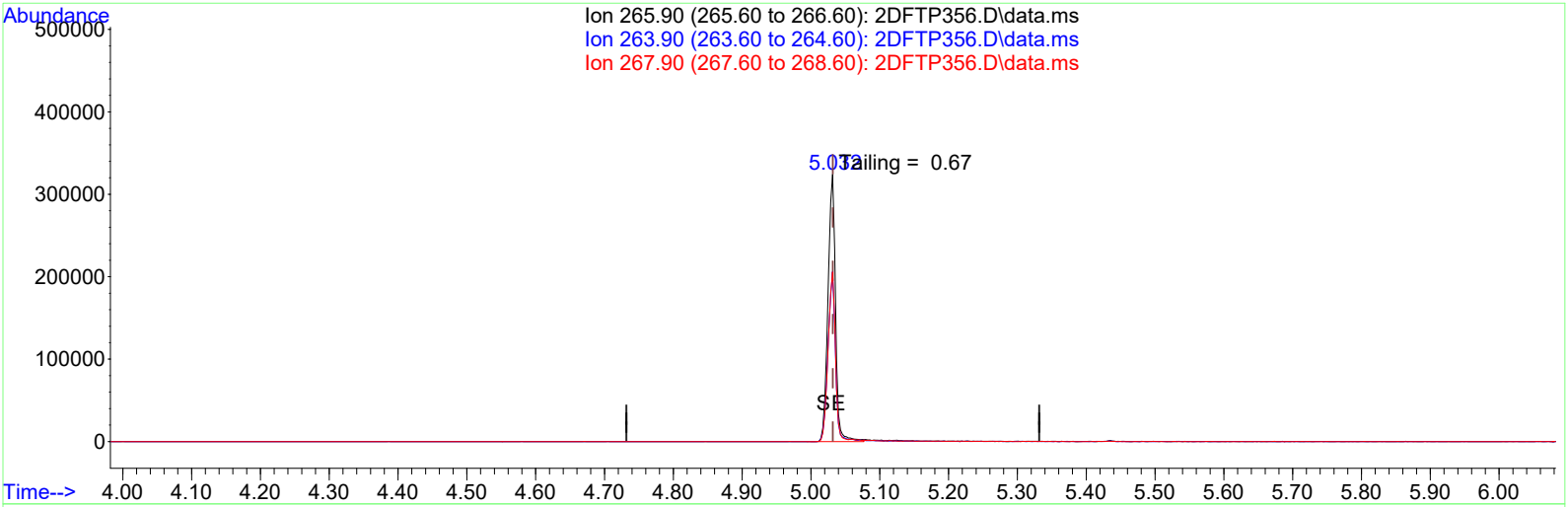

AutoFind: Scans 932, 933, 934; Background Corrected with Scan 923

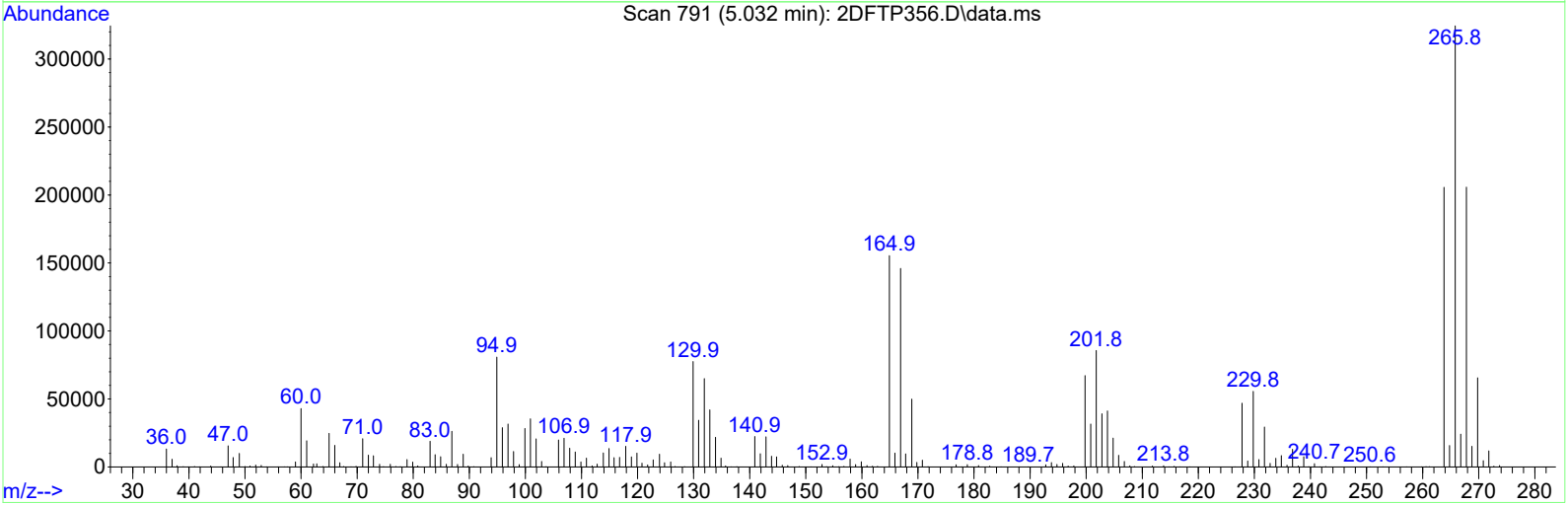
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 40.1 | 157379 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 2209 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 903 | PASS |
| 127 | 198 | 10 | 80 | 51.7 | 202987 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 392619 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 27171 | PASS |
| 275 | 198 | 10 | 60 | 25.5 | 100272 | PASS |
| 365 | 198 | 1 | 100 | 3.6 | 14239 | PASS |
| 441 | 442 | 0.01 | 24 | 15.8 | 60379 | PASS |
| 442 | 198 | 50 | 100 | 97.1 | 381205 | PASS |
| 443 | 442 | 15 | 24 | 19.4 | 73795 | PASS |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S041125\2DFTP356.D  Vial: 1
Acq On : 11 Apr 2025 11:11  Operator: JJY
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 11:23:13 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Fri Apr 11 11:23:03 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP356.D\data.ms

**(1) Pentachlorophenol**

**5.032min (-0.000) 31.31 ng**

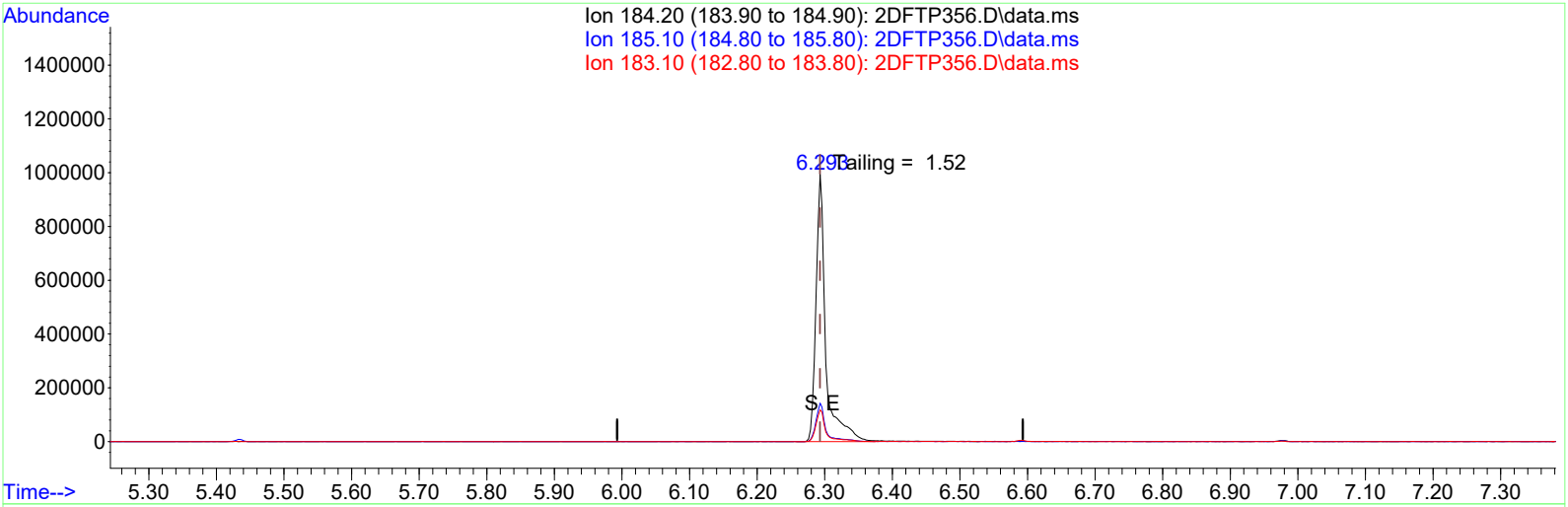
**response 245653**

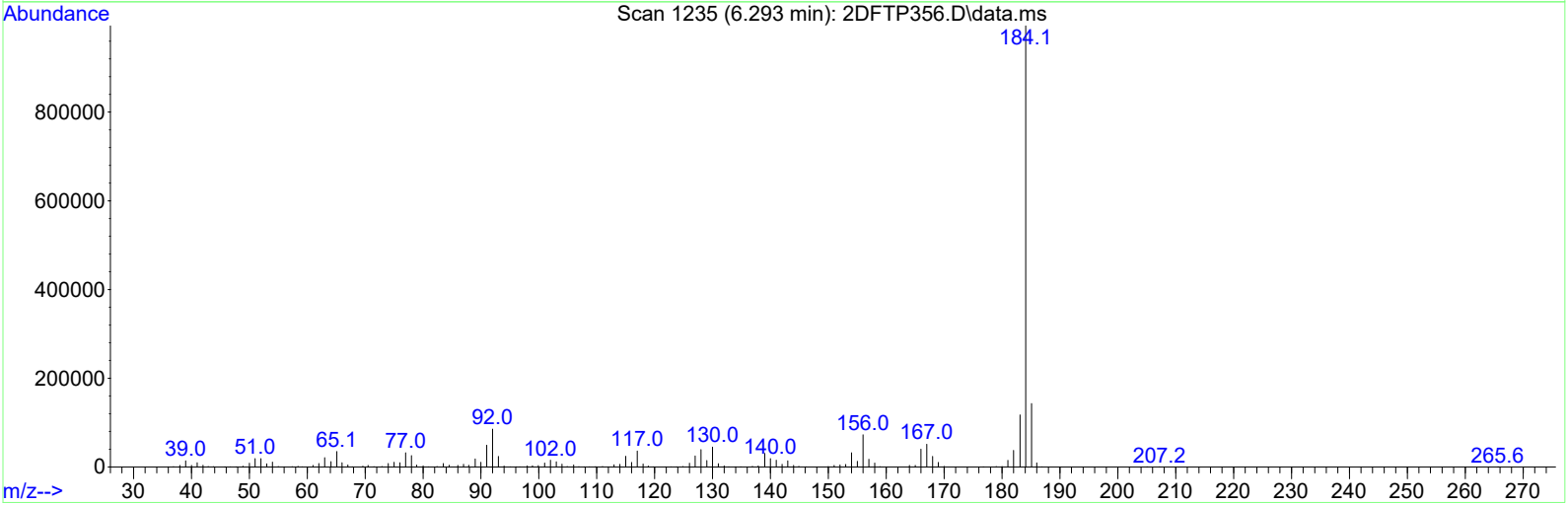
| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 263.90 | 62.00 | 62.80 |
| 267.90 | 60.10 | 62.05 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S041125\2DFTP356.D  Vial: 1
Acq On : 11 Apr 2025 11:11  Operator: JJY
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 11 11:23:13 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Fri Apr 11 11:23:03 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP356.D\data.ms

**(3) Benzidine**

**6.293min ( 0.000) 38.52 ng**

**response 998841**

| Ion | Exp% | Act% |
|---|---|---|
| 184.20 | 100.00 | 100.00 |
| 185.10 | 15.30 | 14.32 |
| 183.10 | 11.70 | 11.93 |
| 0.00 | 0.00 | 0.00 |

| | |
|---|---|
| Data File Name | 2DFTP356.D |
| Vial Number | 1 |
| Data File Path | C:\INSTARCH\DATA\2S041125\ |
| Operator | JJY |
| Date Acquired | 4/11/2025 11:11 |
| Instrument Name | SVMS2 |
| Sample Name | DFTPP TUNE SVMS10212 |
| Sample Multiplier | 1 |
| Misc Info | SVMS2, 25 ng DFTPP |
| Calibration Title | DFTPP TUNE |
| Last Calibration Update | Fri Apr 11 11:23:03 2025 |

| # | Name | Ret Time | Target Response |
|---|---|---|---|
| 1) | Pentachlorophenol | 5.03 | 245653 |
| 2) | DFTPP | 5.44 | 313833 |
| 3) | Benzidine | 6.29 | 998841 |
| 4) | DDE | 6.45 | 3847 |
| 5) | DDD | 6.73 | 37914 |
| 6) | DDT | 6.98 | 662910 |

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \quad 5.93\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041125\2CCV407.D Vial: 2
Acq On : 11 Apr 2025 11:27 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:52:58 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 2 | CT | Ntrsdimeth | 20.000 | 20.386 | -1.9 | 94 | 0.00 |
| 3 | CT | Pyridine | 20.000 | 19.593 | 2.0 | 93 | 0.00 |
| 4 | S | SURR2Flphenol | 50.000 | 51.113 | -2.2 | 94 | 0.00 |
| 5 | CT | Aniline | 20.000 | 20.218 | -1.1 | 93 | 0.00 |
| 6 | CPT | bis2Clethletr | 20.000 | 19.819 | 0.9 | 93 | 0.00 |
| 7 | S | SURRPhenol-d5 | 50.000 | 51.208 | -2.4 | 96 | 0.00 |
| 8 | CPT | Phenol | 20.000 | 20.015 | -0.1 | 93 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 20.000 | 20.274 | -1.4 | 94 | 0.00 |
| 10 | CT | 13Diclbenz | 20.000 | 20.222 | -1.1 | 94 | 0.00 |
| 11 | CT | 14Diclbenz | 20.000 | 19.944 | 0.3 | 95 | 0.00 |
| 12 | CT | 12Diclbenz | 20.000 | 20.000 | 0.0 | 94 | 0.00 |
| 13 | CT | Benzyl alcoho | 20.000 | 20.792 | -4.0 | 94 | 0.00 |
| 14 | CPT | bis2clispreth | 20.000 | 19.701 | 1.5 | 93 | 0.00 |
| 15 | CPT | 2Methylphenol | 20.000 | 20.502 | -2.5 | 94 | 0.00 |
| 16 | CT | Ntrspyrrol | 20.000 | 20.303 | -1.5 | 92 | 0.00 |
| 17 | CPT | Acetophenone | 20.000 | 19.905 | 0.5 | 93 | 0.00 |
| 18 | CPT | Hexaclethane | 20.000 | 19.964 | 0.2 | 94 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 20.000 | 19.625 | 1.9 | 91 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 20.000 | 20.379 | -1.9 | 94 | 0.00 |
| 21 | I | Naphthalened8 | 20.000 | 20.000 | 0.0 | 93 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 100.000 | 103.009 | -3.0 | 94 | 0.00 |
| 23 | CPT | Nitrobenzene | 20.000 | 20.464 | -2.3 | 94 | 0.00 |
| 24 | CPT | Isophorone | 20.000 | 20.435 | -2.2 | 92 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 20.000 | 20.395 | -2.0 | 93 | 0.00 |
| 26 | CPT | 24Dimthpheno | 20.000 | 21.211 | -6.1 | 97 | 0.00 |
| 27 | CPT | bis2clethoxym | 20.000 | 20.516 | -2.6 | 94 | 0.00 |
| 28 | CPT | 24Diclphenol | 20.000 | 21.180 | -5.9 | 96 | 0.00 |
| 29 | CT | 124Triclbenz | 20.000 | 20.527 | -2.6 | 95 | 0.00 |
| 30 | CT | Benzoic acid | 20.000 | 24.105 | -20.5# | 115 | 0.00 |
| 31 | CPT | Naphthalene | 20.000 | 20.271 | -1.4 | 94 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 20.000 | 21.170 | -5.9 | 95 | 0.00 |
| 33 | CT | 26Diclphenol | 20.000 | 20.940 | -4.7 | 95 | 0.00 |
| 34 | CT | Hexaclprop | 20.000 | 21.506 | -7.5 | 95 | 0.00 |
| 35 | CPT | Hexaclbutdien | 20.000 | 20.982 | -4.9 | 97 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 20.000 | 20.922 | -4.6 | 93 | 0.00 |
| 37 | CPT | 2Methylnaphth | 20.000 | 20.616 | -3.1 | 95 | 0.00 |
| 38 | CT | 1Methylnaphth | 20.000 | 20.649 | -3.2 | 94 | 0.00 |
| 39 | I | Acenaphthened10 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 20.000 | 22.123 | -10.6 | 97 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 20.000 | 20.523 | -2.6 | 95 | 0.00 |
| 42 | CPT | 246Triclpheno | 20.000 | 21.233 | -6.2 | 96 | 0.00 |
| 43 | CPT | 245Triclpheno | 20.000 | 21.080 | -5.4 | 96 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 100.000 | 101.533 | -1.5 | 95 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 20.000 | 20.481 | -2.4 | 95 | 0.00 |
| 46 | CPT | 2Nitroaniline | 20.000 | 20.139 | -0.7 | 94 | 0.00 |
| 47 | CPT | Acnaphthylene | 20.000 | 20.328 | -1.6 | 94 | 0.00 |
| 48 | CPT | Dimethylphtha | 20.000 | 20.473 | -2.4 | 94 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 20.000 | 20.394 | -2.0 | 93 | 0.00 |
| 50 | CPT | Acenaphthene | 20.000 | 20.049 | -0.2 | 93 | 0.00 |
| 51 | CPT | 3Nitroaniline | 20.000 | 20.363 | -1.8 | 95 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041125\2CCV407.D Vial: 2
Acq On : 11 Apr 2025 11:27 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:52:58 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 20.000 | 24.551 | -22.8# | 120 | 0.00 |
| 53 | CPT | Dibenzofuran | 20.000 | 20.353 | -1.8 | 95 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 20.000 | 21.191 | -6.0 | 94 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 20.000 | 20.780 | -3.9 | 96 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 20.000 | 23.013 | -15.1 | 107 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 20.000 | 21.621 | -8.1 | 101 | 0.00 |
| 58 | CPT | Fluorene | 20.000 | 20.957 | -4.8 | 97 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 20.000 | 21.169 | -5.8 | 98 | 0.00 |
| 60 | CPT | Diethylphthal | 20.000 | 20.543 | -2.7 | 95 | 0.00 |
| 61 | CPT | 4Nitroaniline | 20.000 | 21.613 | -8.1 | 103 | 0.00 |
| 62 | S | SURR246Tribrphenl | 50.000 | 56.872 | -13.7 | 104 | 0.00 |
| 63 | I | Phenanthrd10 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 20.000 | 21.369 | -6.8 | 103 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 40.000 | 40.214 | -0.5 | 94 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 40.000 | 40.620 | -1.5 | 95 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 20.000 | 20.361 | -1.8 | 96 | 0.00 |
| 68 | CPT | Hexaclbenzene | 20.000 | 20.686 | -3.4 | 99 | 0.00 |
| 69 | CPT | Pentaclphenol | 20.000 | 25.801 | -29.0# | 130 | 0.00 |
| 70 | CPT | Phenanthrene | 20.000 | 20.172 | -0.9 | 95 | 0.00 |
| 71 | CPT | Anthracene | 20.000 | 20.432 | -2.2 | 96 | 0.00 |
| 72 | CPT | Carbazole | 20.000 | 20.171 | -0.9 | 100 | 0.00 |
| 73 | CPT | Dinbtylphthal | 20.000 | 21.055 | -5.3 | 97 | 0.00 |
| 74 | CPT | Fluoranthene | 20.000 | 20.569 | -2.8 | 96 | 0.00 |
| 75 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 98 | 0.00 |
| 76 | CT | Benzidine | 20.000 | 18.568 | 7.2 | 94 | 0.00 |
| 77 | CPT | Pyrene | 20.000 | 20.331 | -1.7 | 97 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 100.000 | 103.590 | -3.6 | 97 | 0.00 |
| 79 | CPT | Btylbzylphth | 20.000 | 20.799 | -4.0 | 97 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 20.000 | 20.634 | -3.2 | 94 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 20.000 | 25.524 | -27.6# | 135 | 0.00 |
| 82 | CPT | B[a]anthracen | 20.000 | 20.330 | -1.6 | 99 | 0.00 |
| 83 | CPT | Chrysene | 20.000 | 20.108 | -0.5 | 99 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 20.000 | 20.906 | -4.5 | 99 | 0.00 |
| 85 | CPT | Dinoctylphthl | 20.000 | 20.298 | -1.5 | 99 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 96 | 0.00 |
| 87 | CPT | B[b]fluoranth | 20.000 | 21.109 | -5.5 | 96 | 0.00 |
| 88 | CPT | B[k]fluoranth | 20.000 | 20.655 | -3.3 | 97 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 20.000 | 20.671 | -3.4 | 95 | 0.00 |
| 90 | CPT | Indeno-pyrene | 20.000 | 18.354 | 8.2 | 92 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 20.000 | 18.625 | 6.9 | 92 | 0.00 |
| 92 | CPT | B[ghi]perylen | 20.000 | 17.830 | 10.9 | 91 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 4

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041125\2CCV407.D Vial: 2
Acq On : 11 Apr 2025 11:27 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:52:58 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 2 | CT | Ntrsdimeth | 0.774 | 0.789 | -1.9 | 94 | 0.00 |
| 3 | CT | Pyridine | 1.384 | 1.356 | 2.0 | 93 | 0.00 |
| 4 | S | SURR2Flphenol | 0.482 | 0.492 | -2.1 | 94 | 0.00 |
| 5 | CT | Aniline | 1.846 | 1.866 | -1.1 | 93 | 0.00 |
| 6 | CPT | bis2Clethletr | 1.215 | 1.204 | 0.9 | 93 | 0.00 |
| 7 | S | SURRPhenol-d5 | 0.579 | 0.593 | -2.4 | 96 | 0.00 |
| 8 | CPT | Phenol | 1.483 | 1.484 | -0.1 | 93 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 1.336 | 1.354 | -1.3 | 94 | 0.00 |
| 10 | CT | 13Diclbenz | 1.455 | 1.471 | -1.1 | 94 | 0.00 |
| 11 | CT | 14Diclbenz | 1.489 | 1.485 | 0.3 | 95 | 0.00 |
| 12 | CT | 12Diclbenz | 1.406 | 1.406 | 0.0 | 94 | 0.00 |
| 13 | CT | Benzyl alcoho | 0.860 | 0.894 | -4.0 | 94 | 0.00 |
| 14 | CPT | bis2clispreth | 2.300 | 2.265 | 1.5 | 93 | 0.00 |
| 15 | CPT | 2Methylphenol | 1.034 | 1.060 | -2.5 | 94 | 0.00 |
| 16 | CT | Ntrspyrrol | 0.646 | 0.655 | -1.4 | 92 | 0.00 |
| 17 | CPT | Acetophenone | 1.871 | 1.862 | 0.5 | 93 | 0.00 |
| 18 | CPT | Hexaclethane | 0.567 | 0.566 | 0.2 | 94 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 0.896 | 0.879 | 1.9 | 91 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 1.340 | 1.366 | -1.9 | 94 | 0.00 |
| 21 | I | Naphthalened8 | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 0.054 | 0.056 | -3.7 | 94 | 0.00 |
| 23 | CPT | Nitrobenzene | 0.263 | 0.269 | -2.3 | 94 | 0.00 |
| 24 | CPT | Isophorone | 0.555 | 0.567 | -2.2 | 92 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 0.175 | 0.178 | -1.7 | 93 | 0.00 |
| 26 | CPT | 24Dimthpheno | 0.269 | 0.285 | -5.9 | 97 | 0.00 |
| 27 | CPT | bis2clethoxym | 0.346 | 0.355 | -2.6 | 94 | 0.00 |
| 28 | CPT | 24Diclphenol | 0.252 | 0.266 | -5.6 | 96 | 0.00 |
| 29 | CT | 124Triclbenz | 0.281 | 0.289 | -2.8 | 95 | 0.00 |
| 30 | CT | Benzoic acid | 0.135 | 0.180 | -33.3# | 115 | 0.00 |
| 31 | CPT | Naphthalene | 0.922 | 0.935 | -1.4 | 94 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 0.360 | 0.381 | -5.8 | 95 | 0.00 |
| 33 | CT | 26Diclphenol | 0.248 | 0.259 | -4.4 | 95 | 0.00 |
| 34 | CT | Hexaclprop | 0.181 | 0.194 | -7.2 | 95 | 0.00 |
| 35 | CPT | Hexaclbutdien | 0.165 | 0.173 | -4.8 | 97 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 0.254 | 0.265 | -4.3 | 93 | 0.00 |
| 37 | CPT | 2Methylnaphth | 0.557 | 0.575 | -3.2 | 95 | 0.00 |
| 38 | CT | 1Methylnaphth | 0.577 | 0.595 | -3.1 | 94 | 0.00 |
| 39 | I | Acenaphthened10 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 0.310 | 0.343 | -10.6 | 97 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 0.456 | 0.468 | -2.6 | 95 | 0.00 |
| 42 | CPT | 246Triclpheno | 0.306 | 0.325 | -6.2 | 96 | 0.00 |
| 43 | CPT | 245Triclpheno | 0.332 | 0.350 | -5.4 | 96 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 0.239 | 0.242 | -1.3 | 95 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 1.011 | 1.036 | -2.5 | 95 | 0.00 |
| 46 | CPT | 2Nitroaniline | 0.301 | 0.316 | -5.0 | 94 | 0.00 |
| 47 | CPT | Acnaphthylene | 1.619 | 1.645 | -1.6 | 94 | 0.00 |
| 48 | CPT | Dimethylphtha | 1.182 | 1.210 | -2.4 | 94 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 0.268 | 0.274 | -2.2 | 93 | 0.00 |
| 50 | CPT | Acenaphthene | 0.962 | 0.964 | -0.2 | 93 | 0.00 |
| 51 | CPT | 3Nitroaniline | 0.279 | 0.294 | -5.4 | 95 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041125\2CCV407.D Vial: 2
Acq On : 11 Apr 2025 11:27 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:52:58 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 0.092 | 0.129 | -40.2# | 120 | 0.00 |
| 53 | CPT | Dibenzofuran | 1.389 | 1.414 | -1.8 | 95 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 0.351 | 0.372 | -6.0 | 94 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 0.191 | 0.206 | -7.9 | 96 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 0.224 | 0.283 | -26.3# | 107 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 0.247 | 0.281 | -13.8 | 101 | 0.00 |
| 58 | CPT | Fluorene | 1.062 | 1.113 | -4.8 | 97 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 0.500 | 0.529 | -5.8 | 98 | 0.00 |
| 60 | CPT | Diethylphthal | 1.177 | 1.208 | -2.6 | 95 | 0.00 |
| 61 | CPT | 4Nitroaniline | 0.242 | 0.275 | -13.6 | 103 | 0.00 |
| 62 | S | SURR246Tribrphenl | 0.054 | 0.061 | -13.0 | 104 | 0.00 |
| 63 | I | Phenanthrd10 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 0.111 | 0.128 | -15.3 | 103 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 0.516 | 0.518 | -0.4 | 94 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 0.184 | 0.187 | -1.6 | 95 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 0.188 | 0.191 | -1.6 | 96 | 0.00 |
| 68 | CPT | Hexaclbenzene | 0.210 | 0.217 | -3.3 | 99 | 0.00 |
| 69 | CPT | Pentaclphenol | 0.081 | 0.117 | -44.4# | 130 | 0.00 |
| 70 | CPT | Phenanthrene | 0.974 | 0.983 | -0.9 | 95 | 0.00 |
| 71 | CPT | Anthracene | 0.991 | 1.013 | -2.2 | 96 | 0.00 |
| 72 | CPT | Carbazole | 0.844 | 0.851 | -0.8 | 100 | 0.00 |
| 73 | CPT | Dinbtylphthal | 1.181 | 1.243 | -5.2 | 97 | 0.00 |
| 74 | CPT | Fluoranthene | 1.029 | 1.058 | -2.8 | 96 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 76 | CT | Benzidine | 0.293 | 0.253 | 13.7 | 94 | 0.00 |
| 77 | CPT | Pyrene | 1.270 | 1.291 | -1.7 | 97 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 0.195 | 0.202 | -3.6 | 97 | 0.00 |
| 79 | CPT | Btylbzylphth | 0.628 | 0.653 | -4.0 | 97 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 0.576 | 0.594 | -3.1 | 94 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 0.316 | 0.397 | -25.6# | 135 | 0.00 |
| 82 | CPT | B[a]anthracen | 1.204 | 1.224 | -1.7 | 99 | 0.00 |
| 83 | CPT | Chrysene | 1.129 | 1.135 | -0.5 | 99 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 0.916 | 0.958 | -4.6 | 99 | 0.00 |
| 85 | CPT | Dinoctylphthl | 1.512 | 1.606 | -6.2 | 99 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 87 | CPT | B[b]fluoranth | 1.059 | 1.118 | -5.6 | 96 | 0.00 |
| 88 | CPT | B[k]fluoranth | 1.061 | 1.096 | -3.3 | 97 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 0.974 | 1.007 | -3.4 | 95 | 0.00 |
| 90 | CPT | Indeno-pyrene | 1.078 | 0.989 | 8.3 | 92 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 0.881 | 0.820 | 6.9 | 92 | 0.00 |
| 92 | CPT | B[ghi]perylen | 0.844 | 0.753 | 10.8 | 91 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\2CCV407.D Vial: 2
Acq On : 11 Apr 2025 11:27 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:52:58 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 173954 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.003 | 136 | 815260 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.784 | 164 | 458893 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 676448 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 576084 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.274 | 264 | 586930 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.073 | 112 | 214070 | 51.11 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.11% | | | |
| 7) SURRPhenol-d5 | 3.897 | 99 | 257776 | 51.21 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.21% | | | |
| 22) SURRNitrbenzened5 | 4.997 | 82 | 228822 | 103.01 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 103.01% | | | |
| 44) SURR2Flbiphenyl | 7.199 | 172 | 555865 | 101.53 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.53% | | | |
| 62) SURR246Tribrphenl | 8.387 | 330 | 69858 | 56.87 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 56.87% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 581914 | 103.59 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 103.59% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.275 | 74 | 137310 | 20.3862 | ug/mL | 96 |
| 3) Pyridine | 2.295 | 79 | 235797 | 19.5925 | ug/mL | 96 |
| 5) Aniline | 3.946 | 93 | 324615 | 20.2179 | ug/mL | 100 |
| 6) bis2Clethletr | 4.014 | 93 | 209401 | 19.8190 | ug/mL | 100 |
| 8) Phenol | 3.912 | 94 | 258170 | 20.0149 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.071 | 128 | 235514 | 20.2735 | ug/mL | 99 |
| 10) 13Diclbenz | 4.244 | 146 | 255850 | 20.2217 | ug/mL | 98 |
| 11) 14Diclbenz | 4.329 | 146 | 258242 | 19.9444 | ug/mL | 99 |
| 12) 12Diclbenz | 4.508 | 146 | 244566 | 19.9995 | ug/mL | 99 |
| 13) Benzyl alcoho | 4.474 | 108 | 155505 | 20.7916 | ug/mL | 99 |
| 14) bis2clispreth | 4.648 | 45 | 394068 | 19.7006 | ug/mL | 98 |
| 15) 2Methylphenol | 4.616 | 107 | 184415 | 20.5021 | ug/mL | 99 |
| 16) Ntrspyrrol | 4.778 | 100 | 114013 | 20.3028 | ug/mL | 98 |
| 17) Acetophenone | 4.807 | 105 | 323836 | 19.9048 | ug/mL | 98 |
| 18) Hexaclethane | 4.929 | 117 | 98389 | 19.9636 | ug/mL | 99 |
| 19) N-Ntrsdinprop | 4.818 | 70 | 152982 | 19.6253 | ug/mL | 98 |
| 20) 3&4Methylphenol | 4.821 | 107 | 237604 | 20.3791 | ug/mL | 98 |
| 23) Nitrobenzene | 5.023 | 77 | 219647 | 20.4642 | ug/mL | 98 |
| 24) Isophorone | 5.383 | 82 | 462082 | 20.4353 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.489 | 139 | 145387 | 20.3953 | ug/mL | 97 |
| 26) 24Dimthpheno | 5.588 | 122 | 232405 | 21.2112 | ug/mL | 95 |
| 27) bis2clethoxym | 5.724 | 93 | 289052 | 20.5163 | ug/mL | 99 |
| 28) 24Diclphenol | 5.832 | 162 | 217184 | 21.1796 | ug/mL | 99 |
| 29) 124Triclbenz | 5.938 | 180 | 235359 | 20.5275 | ug/mL | 99 |
| 30) Benzoic acid | 5.756 | 122 | 146714 | 24.1048 | ug/mL | 93 |
| 31) Naphthalene | 6.031 | 128 | 762187 | 20.2714 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.119 | 127 | 310601 | 21.1699 | ug/mL | 100 |
| 33) 26Diclphenol | 6.125 | 162 | 211444 | 20.9399 | ug/mL | 99 |
| 34) Hexaclprop | 6.148 | 213 | 158434 | 21.5062 | ug/mL | 98 |
| 35) Hexaclbutdien | 6.205 | 225 | 140868 | 20.9815 | ug/mL | 97 |
| 36) 4Cl3methylphe | 6.699 | 107 | 216379 | 20.9221 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.824 | 142 | 468487 | 20.6161 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.924 | 142 | 485297 | 20.6494 | ug/mL | 99 |
| 40) Hxclcycpentdi | 6.992 | 237 | 157380 | 22.1235 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\2CCV407.D Vial: 2
Acq On : 11 Apr 2025 11:27 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:52:58 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

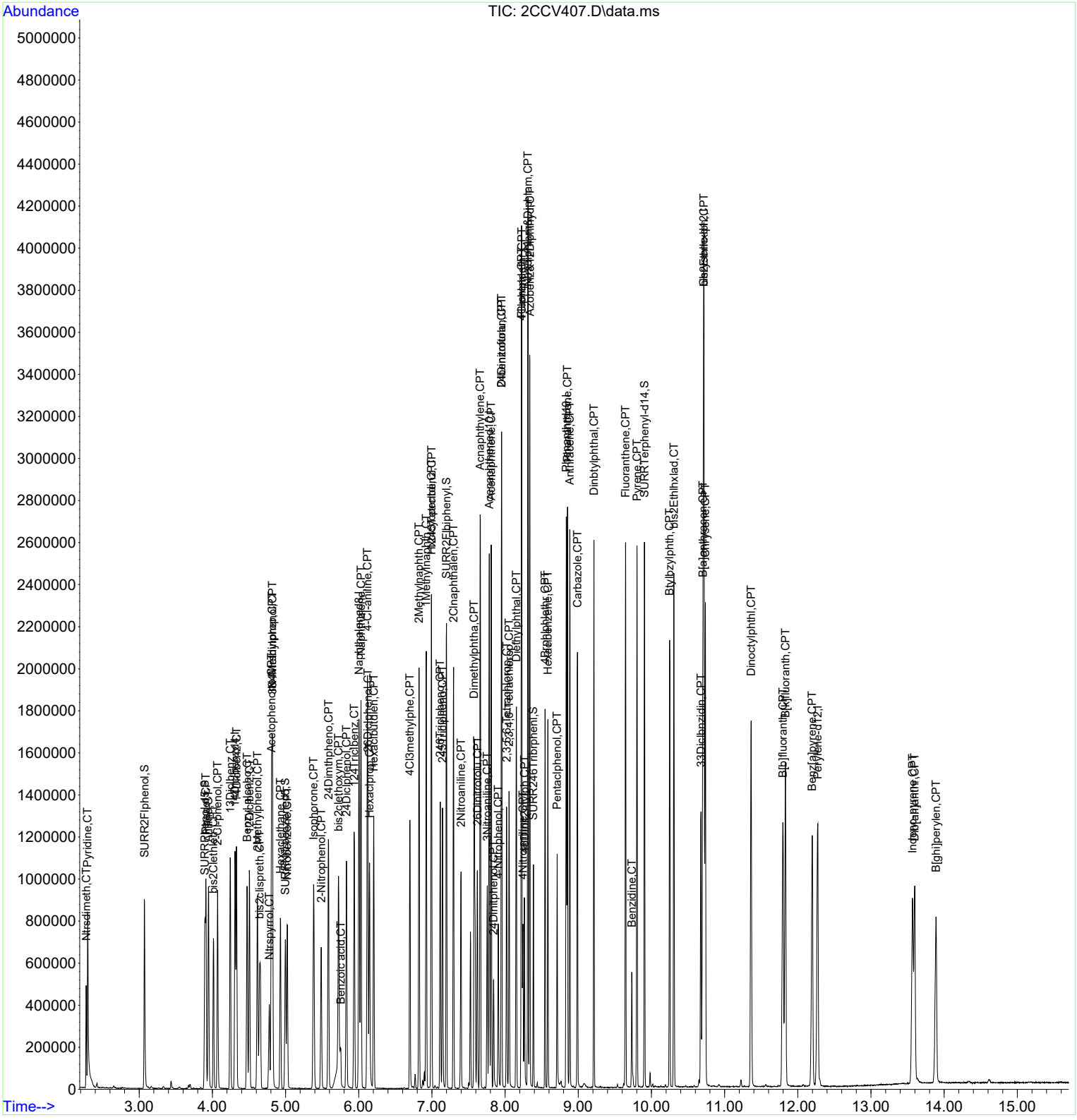
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 6.995 | 216 | 214618 | 20.5227 | ug/mL | 98 |
| 42) 246Triclpheno | 7.114 | 196 | 149029 | 21.2326 | ug/mL | 97 |
| 43) 245Triclpheno | 7.145 | 196 | 160815 | 21.0797 | ug/mL | 98 |
| 45) 2Clnaphthalen | 7.296 | 162 | 475208 | 20.4808 | ug/mL | 99 |
| 46) 2Nitroaniline | 7.398 | 65 | 144834 | 20.1388 | ug/mL | 97 |
| 47) Acnaphthylene | 7.659 | 152 | 754970 | 20.3280 | ug/mL | 100 |
| 48) Dimethylphtha | 7.577 | 163 | 555384 | 20.4733 | ug/mL | 99 |
| 49) 26Dinitrotolu | 7.623 | 165 | 125559 | 20.3940 | ug/mL | 97 |
| 50) Acenaphthene | 7.810 | 154 | 442524 | 20.0488 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.756 | 138 | 135066 | 20.3625 | ug/mL | 97 |
| 52) 24Dinitphenol | 7.844 | 184 | 59214 | 24.5511 | ug/mL | 95 |
| 53) Dibenzofuran | 7.952 | 168 | 648751 | 20.3534 | ug/mL | 99 |
| 54) 24Dinitrotolu | 7.952 | 165 | 170756 | 21.1908 | ug/mL | 99 |
| 55) 4-Nitrophenol | 7.907 | 65 | 94386 | 20.7801 | ug/mL | 96 |
| 56) 2,3,5,6-Tetrachlorop | 8.020 | 232 | 129722 | 23.0128 | ug/mL | 96 |
| 57) 2,3,4,6-Tetrachlorop | 8.054 | 232 | 128999 | 21.6208 | ug/mL | 96 |
| 58) Fluorene | 8.222 | 166 | 510648 | 20.9570 | ug/mL | 98 |
| 59) 4Clphlphlethr | 8.228 | 204 | 242931 | 21.1691 | ug/mL | 97 |
| 60) Diethylphthal | 8.154 | 149 | 554558 | 20.5429 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.245 | 138 | 126147 | 21.6131 | ug/mL | 98 |
| 64) 46Dinit2mylph | 8.265 | 198 | 86345 | 21.3692 | ug/mL | 99 |
| 65) Ntrsdiphlam&Diphlam | 8.313 | 169 | 701356 | 40.2140 | ug/mL | 100 |
| 66) Azobenz&12Diphlhyd | 8.339 | 182 | 252621 | 40.6205 | ug/mL# | 86 |
| 67) 4Brphlphlethr | 8.546 | 248 | 129318 | 20.3605 | ug/mL | 99 |
| 68) Hexaclbenzene | 8.586 | 284 | 146946 | 20.6860 | ug/mL | 98 |
| 69) Pentaclphenol | 8.711 | 266 | 79096 | 25.8013 | ug/mL | 98 |
| 70) Phenanthrene | 8.853 | 178 | 664785 | 20.1718 | ug/mL | 100 |
| 71) Anthracene | 8.884 | 178 | 685093 | 20.4320 | ug/mL | 100 |
| 72) Carbazole | 8.989 | 167 | 575928 | 20.1712 | ug/mL | 99 |
| 73) Dinbtylphthal | 9.214 | 149 | 840964 | 21.0548 | ug/mL | 99 |
| 74) Fluoranthene | 9.646 | 202 | 715817 | 20.5693 | ug/mL | 99 |
| 76) Benzidine | 9.731 | 184 | 145489 | 18.5679 | ug/mL | 97 |
| 77) Pyrene | 9.802 | 202 | 743954 | 20.3312 | ug/mL | 99 |
| 79) Btylbzylphth | 10.248 | 149 | 376290 | 20.7987 | ug/mL | 97 |
| 80) bis2Ethlhxlad | 10.308 | 129 | 342237 | 20.6343 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.677 | 252 | 228860 | 25.5243 | ug/mL | 97 |
| 82) B[a]anthracen | 10.703 | 228 | 705132 | 20.3304 | ug/mL | 100 |
| 83) Chrysene | 10.737 | 228 | 654067 | 20.1078 | ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.717 | 149 | 551830 | 20.9059 | ug/mL | 99 |
| 85) Dinoctylphthl | 11.362 | 149 | 925417 | 20.2977 | ug/mL | 98 |
| 87) B[b]fluoranth | 11.797 | 252 | 656282 | 21.1086 | ug/mL | 100 |
| 88) B[k]fluoranth | 11.831 | 252 | 643408 | 20.6550 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.197 | 252 | 591024 | 20.6707 | ug/mL | 99 |
| 90) Indeno-pyrene | 13.567 | 276 | 580422 | 18.3537 | ug/mL | 99 |
| 91) Dib[ah]anthr | 13.598 | 278 | 481458 | 18.6246 | ug/mL | 100 |
| 92) B[ghi]perylen | 13.888 | 276 | 441770 | 17.8299 | ug/mL | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\2CCV407.D Vial: 2
Acq On : 11 Apr 2025 11:27 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:52:58 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Ending CCV %Recovery Report

| | |
|---|---|
| Data File Name | 2CCV408.D |
| Data File Path | C:\INSTARCH\DATA\2S041125\ |
| Operator | JJY |
| Date Acquired | 4/11/2025 20:43 |
| Acq. Method File | 2S040925.M |
| Sample Name | CCV 20 ug/mL SVMS10298 |
| Misc Info | 500 ul + 5ul IS S5036C |
| Vial Number | 26 |
| Instrument Name | SVMS2 |
| Sample Multiplier | 1 |

| # | Name | Ret Time | Amount | Units | Response | 50-150 %REC |
|---|---|---|---|---|---|---|
| 1 | 14Diclbenzd4 | 4.31 | 20.00 | ug/mL | 173545 | ISTD |
| 2 | Ntrsdimeth | 2.27 | 20.60 | ug/mL | 138426 | 103 |
| 3 | Pyridine | 2.29 | 19.98 | ug/mL | 239860 | 100 |
| 4 | SURR2Flphenol | 3.07 | 50.72 | %REC | 211921 | 101 |
| 5 | Aniline | 3.95 | 20.43 | ug/mL | 327209 | 102 |
| 6 | bis2Clethletr | 4.02 | 20.09 | ug/mL | 211809 | 100 |
| 7 | SURRPhenol-d5 | 3.90 | 52.15 | %REC | 261882 | 104 |
| 8 | Phenol | 3.91 | 20.39 | ug/mL | 262329 | 102 |
| 9 | 2-Cl-phenol | 4.07 | 20.63 | ug/mL | 239046 | 103 |
| 10 | 13Diclbenz | 4.24 | 20.66 | ug/mL | 260840 | 103 |
| 11 | 14Diclbenz | 4.33 | 20.08 | ug/mL | 259352 | 100 |
| 12 | 12Diclbenz | 4.51 | 20.40 | ug/mL | 248927 | 102 |
| 13 | Benzyl alcoho | 4.48 | 21.00 | ug/mL | 156695 | 105 |
| 14 | bis2clispreth | 4.65 | 19.44 | ug/mL | 387891 | 97 |
| 15 | 2Methylphenol | 4.62 | 20.60 | ug/mL | 184843 | 103 |
| 16 | Ntrspyrrol | 4.78 | 20.92 | ug/mL | 117216 | 105 |
| 17 | Acetophenone | 4.81 | 20.48 | ug/mL | 332476 | 102 |
| 18 | Hexaclethane | 4.93 | 20.15 | ug/mL | 99073 | 101 |
| 19 | N-Ntrsdinprop | 4.82 | 20.09 | ug/mL | 156271 | 100 |
| 20 | 3&4Methylphenol | 4.82 | 21.05 | ug/mL | 244825 | 105 |
| 21 | Naphthalened8 | 6.01 | 20.00 | ug/mL | 834135 | ISTD |
| 22 | SURRNitrbenzened5 | 5.00 | 102.16 | %REC | 232194 | 102 |
| 23 | Nitrobenzene | 5.03 | 20.28 | ug/mL | 222683 | 101 |
| 24 | Isophorone | 5.39 | 20.15 | ug/mL | 466233 | 101 |
| 25 | 2-Nitrophenol | 5.49 | 20.70 | ug/mL | 150960 | 103 |
| 26 | 24Dimthpheno | 5.59 | 20.51 | ug/mL | 229908 | 103 |
| 27 | bis2clethoxym | 5.73 | 20.13 | ug/mL | 290109 | 101 |
| 28 | 24Diclphenol | 5.84 | 21.09 | ug/mL | 221267 | 105 |
| 29 | 124Triclbenz | 5.94 | 20.46 | ug/mL | 173545 | 102 |
| 30 | Benzoic acid | 5.75 | 23.30 | ug/mL | 239966 | 117 |
| 31 | Naphthalene | 6.03 | 20.28 | ug/mL | 780295 | 101 |
| 32 | 4-Cl-aniline | 6.12 | 21.66 | ug/mL | 325126 | 108 |
| 33 | 26Diclphenol | 6.13 | 20.69 | ug/mL | 213722 | 103 |
| 34 | Hexaclprop | 6.15 | 20.49 | ug/mL | 154478 | 102 |
| 35 | Hexaclbutdien | 6.21 | 21.05 | ug/mL | 144588 | 105 |
| 36 | 4Cl3methylphe | 6.70 | 21.32 | ug/mL | 225639 | 107 |
| 37 | 2Methylnaphth | 6.83 | 20.55 | ug/mL | 477900 | 103 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 38 | 1Methylnaphth | 6.93 | 20.38 | ug/mL | 490073 | 102 |
| 39 | Acenaphthened10 | 7.78 | 20.00 | ug/mL | 173545 | ISTD |
| 40 | Hxclcycpentdi | 6.99 | 17.04 | ug/mL | 468028 | 85 |
| 41 | 1245Tetrclbenz | 7.00 | 20.52 | ug/mL | 218908 | 103 |
| 42 | 246Triclpheno | 7.12 | 21.28 | ug/mL | 152361 | 106 |
| 43 | 245Triclpheno | 7.15 | 21.43 | ug/mL | 166707 | 107 |
| 44 | SURR2Flbiphenyl | 7.20 | 100.99 | %REC | 563900 | 101 |
| 45 | 2Clnaphthalen | 7.30 | 20.44 | ug/mL | 483597 | 102 |
| 46 | 2Nitroaniline | 7.40 | 20.19 | ug/mL | 148139 | 101 |
| 47 | Acnaphthylene | 7.66 | 20.57 | ug/mL | 173545 | 103 |
| 48 | Dimethylphtha | 7.58 | 20.43 | ug/mL | 779126 | 102 |
| 49 | 26Dinitrotolu | 7.63 | 20.62 | ug/mL | 129465 | 103 |
| 50 | Acenaphthene | 7.81 | 20.15 | ug/mL | 453547 | 101 |
| 51 | 3Nitroaniline | 7.76 | 21.58 | ug/mL | 146298 | 108 |
| 52 | 24Dinitphenol | 7.85 | 25.03 | ug/mL | 61975 | 125 |
| 53 | Dibenzofuran | 7.96 | 20.48 | ug/mL | 665795 | 102 |
| 54 | 24Dinitrotolu | 7.96 | 21.41 | ug/mL | 173545 | 107 |
| 55 | 4-Nitrophenol | 7.91 | 21.55 | ug/mL | 175992 | 108 |
| 56 | 2,3,5,6-Tetrachlorop | 8.02 | 23.06 | ug/mL | 132603 | 115 |
| 57 | 2,3,4,6-Tetrachlorop | 8.06 | 22.09 | ug/mL | 134485 | 110 |
| 58 | Fluorene | 8.22 | 20.84 | ug/mL | 517875 | 104 |
| 59 | 4Clphlphlethr | 8.23 | 20.98 | ug/mL | 245574 | 105 |
| 60 | Diethylphthal | 8.15 | 20.64 | ug/mL | 568283 | 103 |
| 61 | 4Nitroaniline | 8.25 | 22.63 | ug/mL | 135013 | 113 |
| 62 | SURR246Tribrphenl | 8.39 | 57.08 | %REC | 71510 | 114 |
| 63 | Phenanthrd10 | 8.84 | 20.00 | ug/mL | 695275 | ISTD |
| 64 | 46Dinit2mylph | 8.27 | 21.13 | ug/mL | 87635 | 106 |
| 65 | Ntrsdiphlam&Diphlam | 8.31 | 40.50 | ug/mL | 726018 | 101 |
| 66 | Azobenz&12Diphlhyd | 8.34 | 40.33 | ug/mL | 257775 | 101 |
| 67 | 4Brphlphlethr | 8.55 | 20.78 | ug/mL | 135673 | 104 |
| 68 | Hexaclbenzene | 8.59 | 20.15 | ug/mL | 147086 | 101 |
| 69 | Pentaclphenol | 8.71 | 25.30 | ug/mL | 79320 | 127 |
| 70 | Phenanthrene | 8.85 | 20.25 | ug/mL | 685944 | 101 |
| 71 | Anthracene | 8.89 | 20.42 | ug/mL | 703854 | 102 |
| 72 | Carbazole | 8.99 | 21.63 | ug/mL | 634674 | 108 |
| 73 | Dinbtylphthal | 9.21 | 20.74 | ug/mL | 851515 | 104 |
| 74 | Fluoranthene | 9.65 | 20.60 | ug/mL | 736757 | 103 |
| 75 | Chrysene-d12 | 10.71 | 20.00 | ug/mL | 607866 | ISTD |
| 76 | Benzidine | 9.73 | 29.57 | ug/mL | 273704 | 148 |
| 77 | Pyrene | 9.80 | 19.91 | ug/mL | 768732 | 100 |
| 78 | SURRTerphenyl-d14 | 9.90 | 104.37 | %REC | 618645 | 104 |
| 79 | Btylbzylphth | 10.25 | 20.58 | ug/mL | 392910 | 103 |
| 80 | bis2Ethlhxlad | 10.30 | 20.15 | ug/mL | 352683 | 101 |
| 81 | 33Diclbnzidin | 10.68 | 27.23 | ug/mL | 260440 | 136 |
| 82 | B[a]anthracen | 10.70 | 20.24 | ug/mL | 740701 | 101 |
| 83 | Chrysene | 10.74 | 20.07 | ug/mL | 688696 | 100 |
| 84 | bis2Ethlhxlph | 10.72 | 20.37 | ug/mL | 567309 | 102 |
| 85 | Dinoctylphthl | 11.36 | 20.19 | ug/mL | 971075 | 101 |
| 86 | Perylene-d12 | 12.27 | 20.00 | ug/mL | 591353 | ISTD |
| 87 | B[b]fluoranth | 11.80 | 21.35 | ug/mL | 668660 | 107 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 88 | B[k]fluoranth | 11.83 | 21.25 | ug/mL | 667074 | 106 |
| 89 | Benz[a]pyrene | 12.20 | 20.74 | ug/mL | 597428 | 104 |
| 90 | Indeno-pyrene | 13.57 | 16.49 | ug/mL | 525529 | 82 |
| 91 | Dib[ah]anthr | 13.60 | 17.38 | ug/mL | 452561 | 87 |
| 92 | B[ghi]perylen | 13.89 | 14.55 | ug/mL | 363252 | 73 |

(#) = recovery out of range Average Percent Recovery = 104

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\2CCV408.D Vial: 26
Acq On : 11 Apr 2025 20:43 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:40 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.312 | 152 | 173545 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.006 | 136 | 834135 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.785 | 164 | 468028 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.836 | 188 | 695275 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.714 | 240 | 607866 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.271 | 264 | 591353 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.073 | 112 | 211921 | 50.72 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 50.72% | | | |
| 7) SURRPhenol-d5 | 3.897 | 99 | 261882 | 52.15 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 52.15% | | | |
| 22) SURRNitrbenzened5 | 5.000 | 82 | 232194 | 102.16 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 102.16% | | | |
| 44) SURR2Flbiphenyl | 7.199 | 172 | 563900 | 100.99 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 100.99% | | | |
| 62) SURR246Tribrphenl | 8.390 | 330 | 71510 | 57.08 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 57.08% | | | |
| 78) SURRTerphenyl-d14 | 9.904 | 244 | 618645 | 104.37 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 104.37% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.275 | 74 | 138426 | 20.6003 | ug/mL | 99 |
| 3) Pyridine | 2.295 | 79 | 239860 | 19.9771 | ug/mL | 98 |
| 5) Aniline | 3.949 | 93 | 327209 | 20.4275 | ug/mL | 99 |
| 6) bis2Clethletr | 4.017 | 93 | 211809 | 20.0942 | ug/mL | 98 |
| 8) Phenol | 3.914 | 94 | 262329 | 20.3852 | ug/mL | 100 |
| 9) 2-Cl-phenol | 4.074 | 128 | 239046 | 20.6261 | ug/mL | 97 |
| 10) 13Diclbenz | 4.244 | 146 | 260840 | 20.6646 | ug/mL | 98 |
| 11) 14Diclbenz | 4.332 | 146 | 259352 | 20.0773 | ug/mL | 99 |
| 12) 12Diclbenz | 4.508 | 146 | 248927 | 20.4041 | ug/mL | 97 |
| 13) Benzyl alcoho | 4.477 | 108 | 156695 | 21.0001 | ug/mL | 98 |
| 14) bis2clispreth | 4.650 | 45 | 387891 | 19.4375 | ug/mL | 98 |
| 15) 2Methylphenol | 4.616 | 107 | 184843 | 20.5981 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.781 | 100 | 117216 | 20.9224 | ug/mL | 99 |
| 17) Acetophenone | 4.810 | 105 | 332476 | 20.4840 | ug/mL | 99 |
| 18) Hexaclethane | 4.932 | 117 | 99073 | 20.1498 | ug/mL | 93 |
| 19) N-Ntrsdinprop | 4.821 | 70 | 156271 | 20.0945 | ug/mL | 96 |
| 20) 3&4Methylphenol | 4.821 | 107 | 244825 | 21.0480 | ug/mL | 96 |
| 23) Nitrobenzene | 5.026 | 77 | 222683 | 20.2775 | ug/mL | 98 |
| 24) Isophorone | 5.386 | 82 | 466233 | 20.1523 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.489 | 139 | 150960 | 20.6979 | ug/mL | 98 |
| 26) 24Dimthpheno | 5.588 | 122 | 229908 | 20.5085 | ug/mL | 99 |
| 27) bis2clethoxym | 5.727 | 93 | 290109 | 20.1254 | ug/mL | 98 |
| 28) 24Diclphenol | 5.835 | 162 | 221267 | 21.0895 | ug/mL | 98 |
| 29) 124Triclbenz | 5.940 | 180 | 239966 | 20.4557 | ug/mL | 97 |
| 30) Benzoic acid | 5.753 | 122 | 144400 | 23.3042 | ug/mL | 93 |
| 31) Naphthalene | 6.031 | 128 | 780295 | 20.2834 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.119 | 127 | 325126 | 21.6584 | ug/mL | 98 |
| 33) 26Diclphenol | 6.125 | 162 | 213722 | 20.6866 | ug/mL | 99 |
| 34) Hexaclprop | 6.148 | 213 | 154478 | 20.4947 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.208 | 225 | 144588 | 21.0483 | ug/mL | 99 |
| 36) 4Cl3methylphe | 6.702 | 107 | 225639 | 21.3238 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.827 | 142 | 477900 | 20.5545 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.926 | 142 | 490073 | 20.3808 | ug/mL | 99 |
| 40) Hxclcycpentdi | 6.992 | 237 | 123631 | 17.0401 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\2CCV408.D Vial: 26
Acq On : 11 Apr 2025 20:43 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:40 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

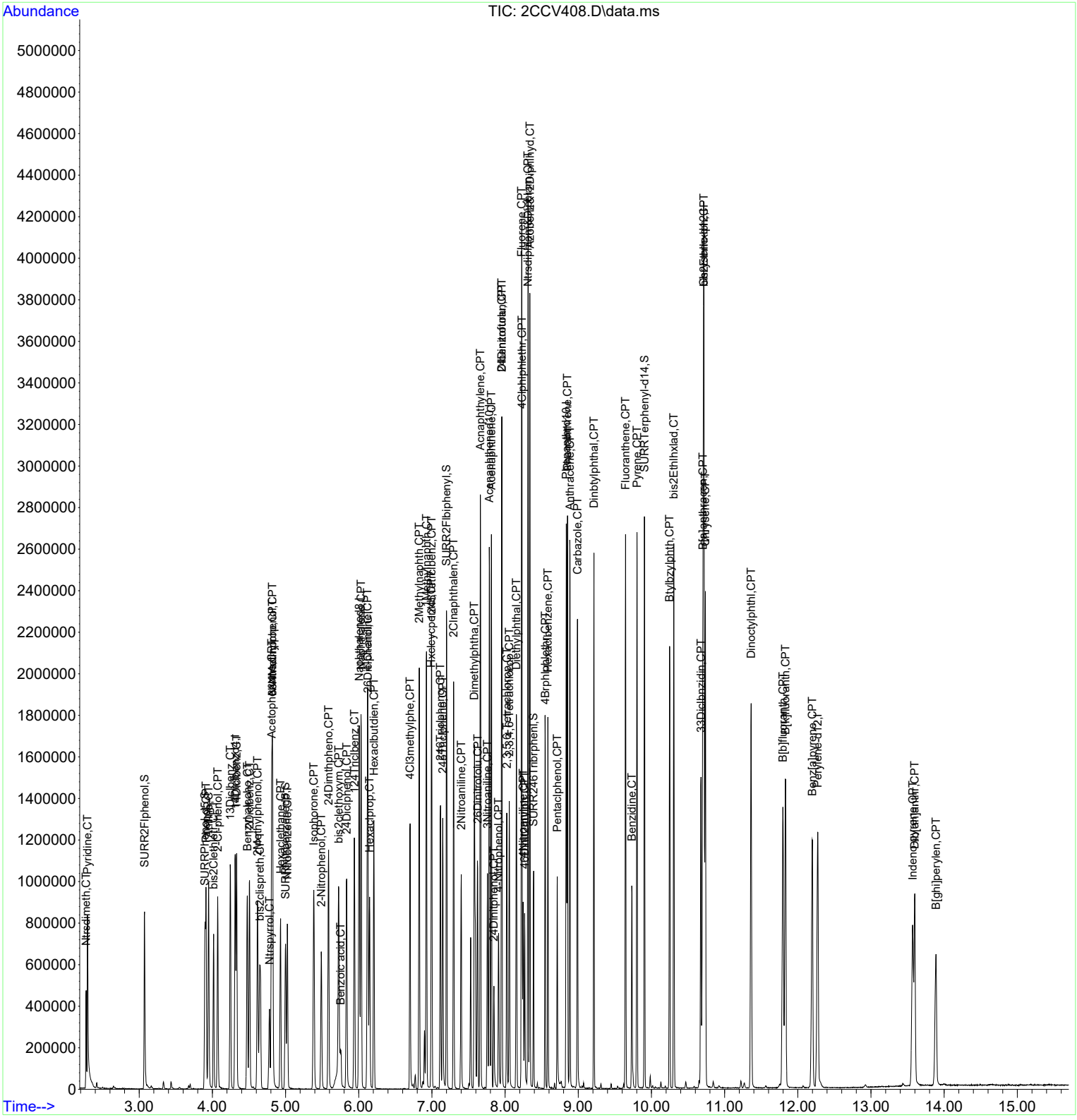
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 6.997 | 216 | 218908 | 20.5243 ug/mL | 98 |
| 42) 246Triclpheno | 7.117 | 196 | 152361 | 21.2836 ug/mL | 96 |
| 43) 245Triclpheno | 7.148 | 196 | 166707 | 21.4255 ug/mL | 100 |
| 45) 2Clnaphthalen | 7.296 | 162 | 483597 | 20.4355 ug/mL | 99 |
| 46) 2Nitroaniline | 7.401 | 65 | 148139 | 20.1946 ug/mL | 99 |
| 47) Acnaphthylene | 7.662 | 152 | 779126 | 20.5690 ug/mL | 100 |
| 48) Dimethylphtha | 7.580 | 163 | 565358 | 20.4342 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.625 | 165 | 129465 | 20.6180 ug/mL | 93 |
| 50) Acenaphthene | 7.813 | 154 | 453547 | 20.1471 ug/mL | 98 |
| 51) 3Nitroaniline | 7.759 | 138 | 146298 | 21.5779 ug/mL | 99 |
| 52) 24Dinitphenol | 7.847 | 184 | 61975 | 25.0334 ug/mL | 97 |
| 53) Dibenzofuran | 7.955 | 168 | 665795 | 20.4804 ug/mL | 98 |
| 54) 24Dinitrotolu | 7.955 | 165 | 175992 | 21.4143 ug/mL | 98 |
| 55) 4-Nitrophenol | 7.910 | 65 | 100043 | 21.5509 ug/mL | 99 |
| 56) 2,3,5,6-Tetrachlorop | 8.023 | 232 | 132603 | 23.0613 ug/mL | 97 |
| 57) 2,3,4,6-Tetrachlorop | 8.057 | 232 | 134485 | 22.0912 ug/mL | 95 |
| 58) Fluorene | 8.225 | 166 | 517875 | 20.8388 ug/mL | 99 |
| 59) 4Clphlphlethr | 8.231 | 204 | 245574 | 20.9817 ug/mL | 94 |
| 60) Diethylphthal | 8.154 | 149 | 568283 | 20.6404 ug/mL | 99 |
| 61) 4Nitroaniline | 8.248 | 138 | 135013 | 22.6348 ug/mL | 92 |
| 64) 46Dinit2mylph | 8.268 | 198 | 87635 | 21.1297 ug/mL | 96 |
| 65) Ntrsdiphlam&Diphlam | 8.313 | 169 | 726018 | 40.5008 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.339 | 182 | 257775 | 40.3268 ug/mL | 92 |
| 67) 4Brphlphlethr | 8.549 | 248 | 135673 | 20.7827 ug/mL | 94 |
| 68) Hexaclbenzene | 8.586 | 284 | 147086 | 20.1450 ug/mL | 97 |
| 69) Pentaclphenol | 8.714 | 266 | 79320 | 25.3006 ug/mL | 98 |
| 70) Phenanthrene | 8.853 | 178 | 685944 | 20.2502 ug/mL | 99 |
| 71) Anthracene | 8.887 | 178 | 703854 | 20.4231 ug/mL | 100 |
| 72) Carbazole | 8.989 | 167 | 634674 | 21.6268 ug/mL | 100 |
| 73) Dinbtylphthal | 9.214 | 149 | 851515 | 20.7416 ug/mL | 99 |
| 74) Fluoranthene | 9.646 | 202 | 736757 | 20.5977 ug/mL | 100 |
| 76) Benzidine | 9.731 | 184 | 273704 | 29.5699 ug/mL | 99 |
| 77) Pyrene | 9.802 | 202 | 768732 | 19.9099 ug/mL | 99 |
| 79) Btylbzylphth | 10.248 | 149 | 392910 | 20.5819 ug/mL | 97 |
| 80) bis2Ethlhxlad | 10.305 | 129 | 352683 | 20.1524 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.677 | 252 | 260440 | 27.2252 ug/mL | 98 |
| 82) B[a]anthracen | 10.703 | 228 | 740701 | 20.2394 ug/mL | 98 |
| 83) Chrysene | 10.737 | 228 | 688696 | 20.0654 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.717 | 149 | 567309 | 20.3686 ug/mL | 99 |
| 85) Dinoctylphthl | 11.362 | 149 | 971075 | 20.1906 ug/mL | 99 |
| 87) B[b]fluoranth | 11.797 | 252 | 668660 | 21.3459 ug/mL | 99 |
| 88) B[k]fluoranth | 11.831 | 252 | 667074 | 21.2546 ug/mL | 100 |
| 89) Benz[a]pyrene | 12.200 | 252 | 597428 | 20.7384 ug/mL | 99 |
| 90) Indeno-pyrene | 13.570 | 276 | 525529 | 16.4936 ug/mL | 97 |
| 91) Dib[ah]anthr | 13.598 | 278 | 452561 | 17.3758 ug/mL | 97 |
| 92) B[ghi]perylen | 13.888 | 276 | 363252 | 14.5513 ug/mL | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\2CCV408.D Vial: 26
Acq On : 11 Apr 2025 20:43 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:40 2025

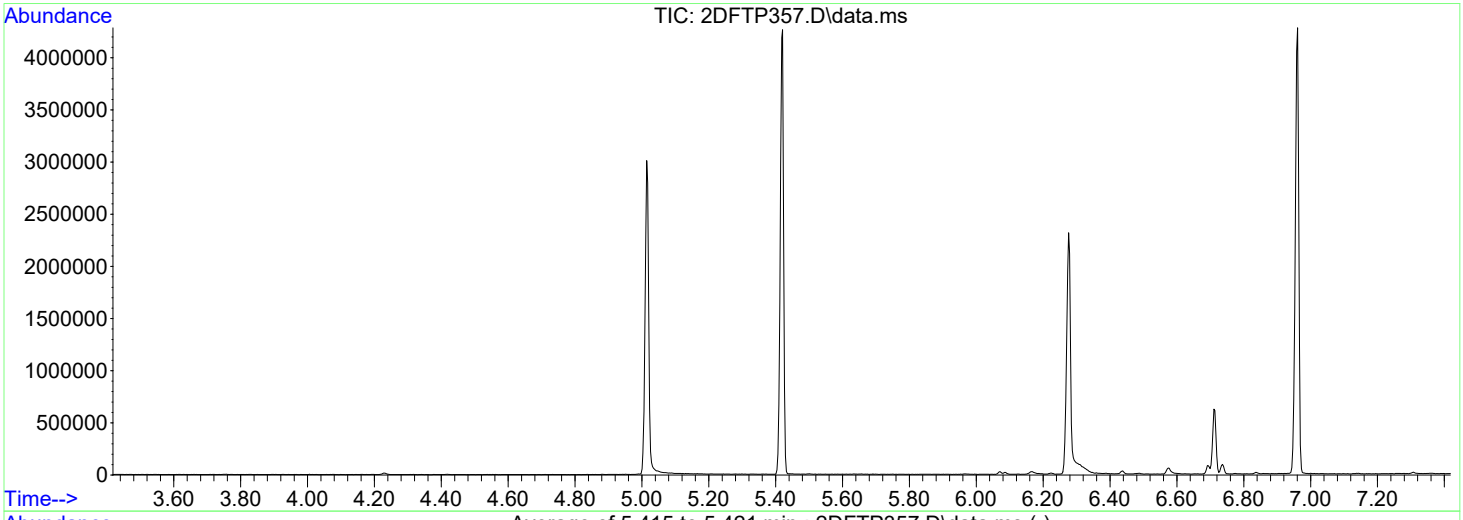
Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Data Path : C:\INSTARCH\DATA\2S041425\
Data File : 2DFTP357.D
Acq On : 14 Apr 2025 10:44
Operator : JJY
Sample : DFTPP TUNE SVMS10212
Misc : SVMS2, 25 ng DFTPP
ALS Vial : 1 Sample Multiplier: 1

Integration File: DDD.P

Method : C:\INSTARCH\METHOD\2DFTPP.M
Title : DFTPP TUNE
Last Update : Mon Apr 14 10:54:47 2025



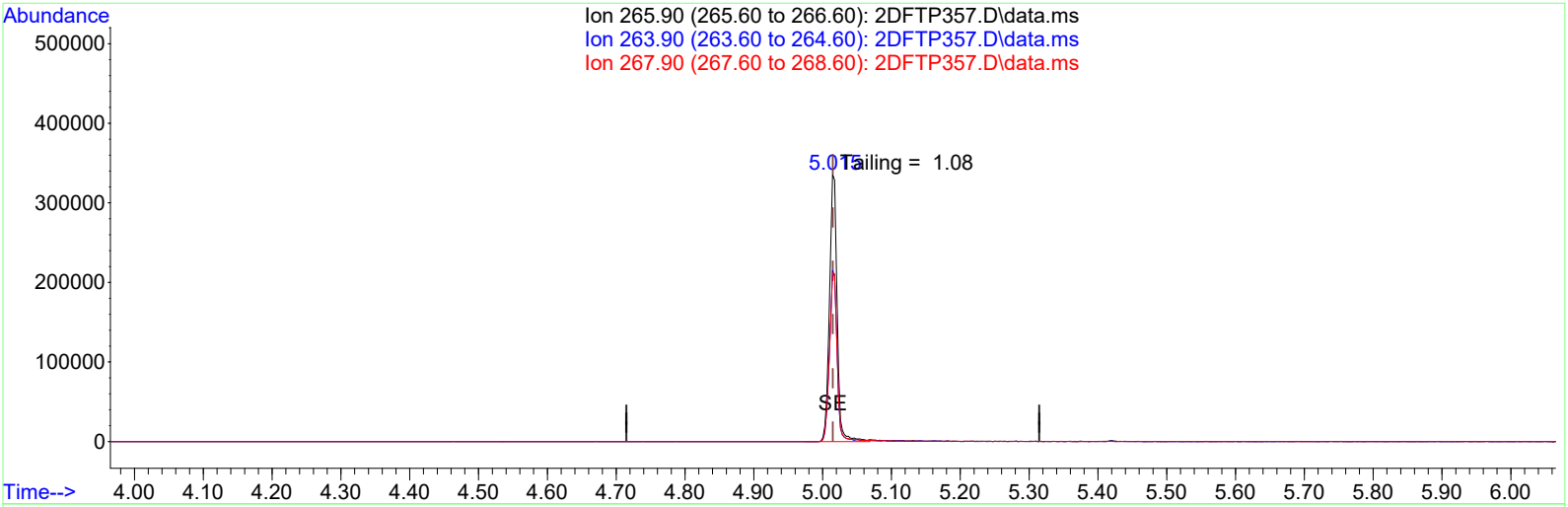

AutoFind: Scans 926, 927, 928; Background Corrected with Scan 917

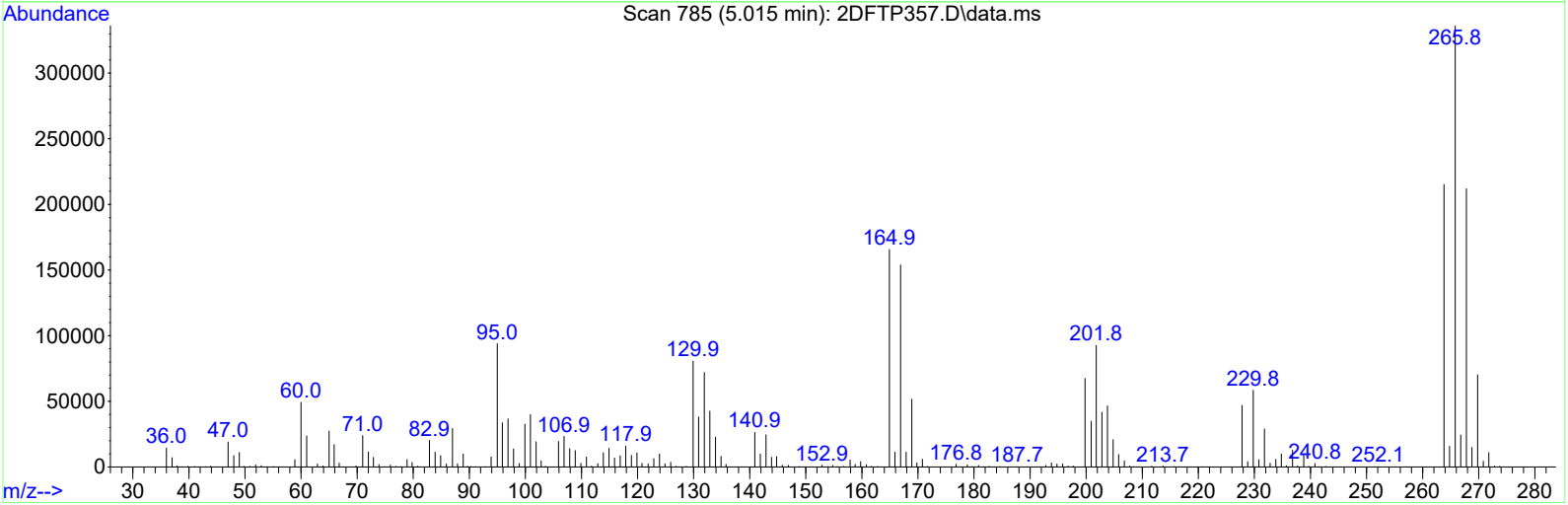
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 41.6 | 173485 | PASS |
| 68 | 69 | 0.00 | 2 | 1.5 | 2419 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 676 | PASS |
| 127 | 198 | 10 | 80 | 53.0 | 220629 | PASS |
| 197 | 198 | 0.00 | 2 | 0.2 | 924 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 416640 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 28333 | PASS |
| 275 | 198 | 10 | 60 | 25.8 | 107616 | PASS |
| 365 | 198 | 1 | 100 | 3.6 | 15108 | PASS |
| 441 | 442 | 0.01 | 24 | 15.3 | 58309 | PASS |
| 442 | 198 | 50 | 100 | 91.2 | 379925 | PASS |
| 443 | 442 | 15 | 24 | 20.4 | 77451 | PASS |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S041425\2DFTP357.D  Vial: 1
Acq On : 14 Apr 2025 10:44  Operator: JJY
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 10:54:54 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Mon Apr 14 10:54:47 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP357.D\data.ms

**(1) Pentachlorophenol**

**5.015min (-0.000) 32.86 ng**

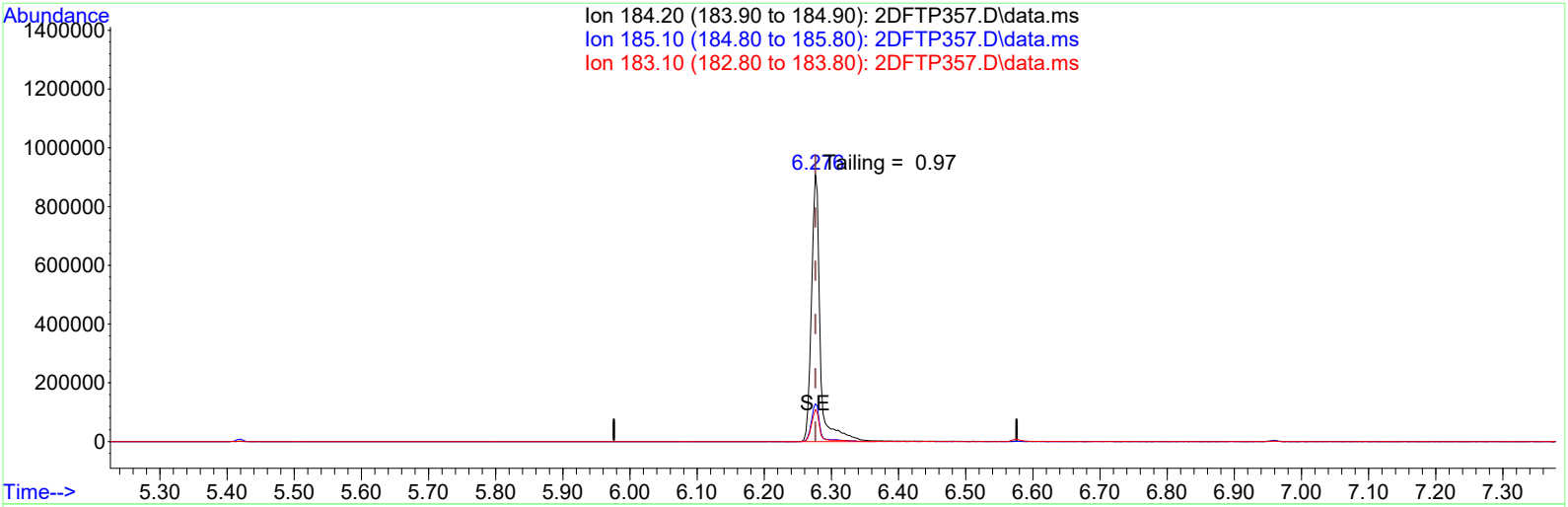
**response 257834**

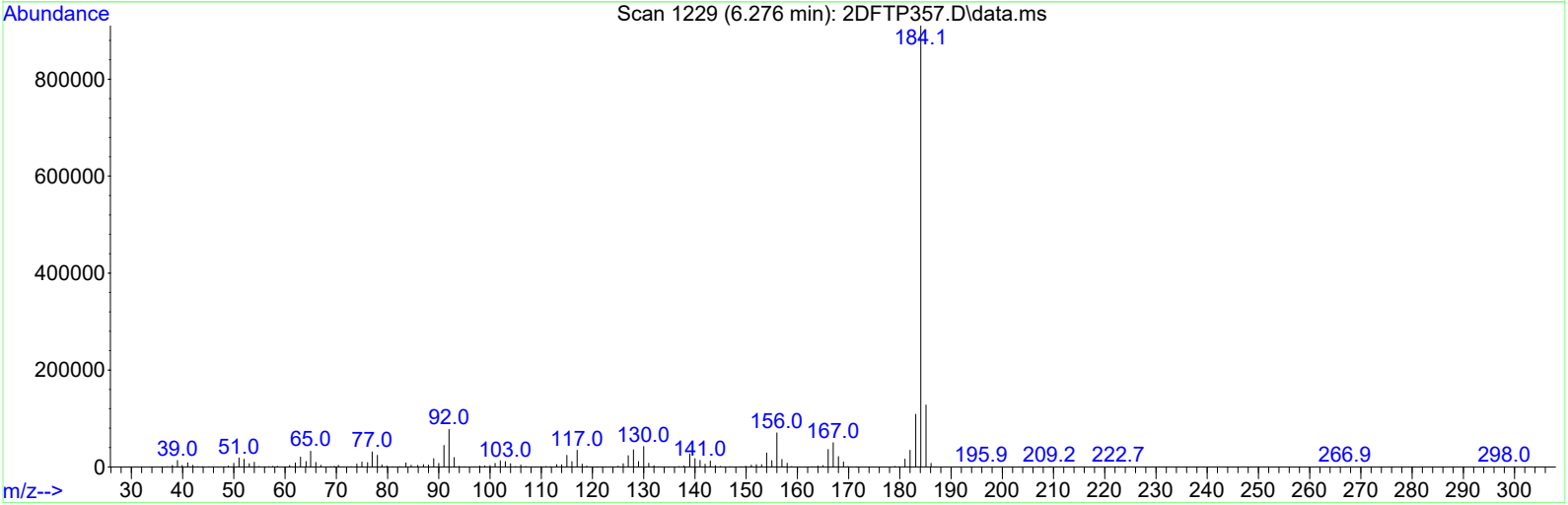
| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 263.90 | 62.00 | 62.93 |
| 267.90 | 60.10 | 63.48 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S041425\2DFTP357.D  Vial: 1
Acq On : 14 Apr 2025 10:44  Operator: JJY
Sample : DFTPP TUNE SVMS10212  Inst : SVMS2
Misc : SVMS2, 25 ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 10:54:54 2025

Quant Method : C:\INSTARCH\METHOD\2DFTPP.M
Quant Title : DFTPP TUNE
QLast Update : Mon Apr 14 10:54:47 2025
Response via : Initial Calibration
DataAcq Meth:2DFTPP.M




TIC: 2DFTP357.D\data.ms

**(3) Benzidine**

**6.276min ( 0.000) 31.94 ng**

**response 828298**

| Ion | Exp% | Act% |
|---|---|---|
| 184.20 | 100.00 | 100.00 |
| 185.10 | 15.30 | 13.20 |
| 183.10 | 11.70 | 11.74 |
| 0.00 | 0.00 | 0.00 |

| | |
|---|---|
| Data File Name | 2DFTP357.D |
| Vial Number | 1 |
| Data File Path | C:\INSTARCH\DATA\2S041425\ |
| Operator | JJY |
| Date Acquired | 4/14/2025 10:44 |
| Instrument Name | SVMS2 |
| Sample Name | DFTPP TUNE SVMS10212 |
| Sample Multiplier | 1 |
| Misc Info | SVMS2, 25 ng DFTPP |
| Calibration Title | DFTPP TUNE |
| Last Calibration Update | Mon Apr 14 10:54:47 2025 |

| # | Name | Ret Time | Target Response |
|---|---|---|---|
| 1) | Pentachlorophenol | 5.01 | 257834 |
| 2) | DFTPP | 5.42 | 326162 |
| 3) | Benzidine | 6.28 | 828298 |
| 4) | DDE | 6.44 | 2592 |
| 5) | DDD | 6.71 | 100181 |
| 6) | DDT | 6.96 | 592936 |

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \qquad 14.77\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041425\2CCV409.D Vial: 2
Acq On : 14 Apr 2025 11:00 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:26:43 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 20.000 | 20.000 | 0.0 | 96 | 0.00 |
| 2 | CT | Ntrsdimeth | 20.000 | 20.380 | -1.9 | 95 | 0.00 |
| 3 | CT | Pyridine | 20.000 | 20.053 | -0.3 | 96 | 0.00 |
| 4 | S | SURR2Flphenol | 50.000 | 51.145 | -2.3 | 95 | 0.00 |
| 5 | CT | Aniline | 20.000 | 20.136 | -0.7 | 94 | 0.00 |
| 6 | CPT | bis2Clethletr | 20.000 | 19.910 | 0.4 | 94 | 0.00 |
| 7 | S | SURRPhenol-d5 | 50.000 | 51.271 | -2.5 | 97 | 0.00 |
| 8 | CPT | Phenol | 20.000 | 20.070 | -0.4 | 95 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 20.000 | 20.358 | -1.8 | 95 | 0.00 |
| 10 | CT | 13Diclbenz | 20.000 | 20.385 | -1.9 | 96 | 0.00 |
| 11 | CT | 14Diclbenz | 20.000 | 20.293 | -1.5 | 97 | 0.00 |
| 12 | CT | 12Diclbenz | 20.000 | 20.192 | -1.0 | 95 | 0.00 |
| 13 | CT | Benzyl alcoho | 20.000 | 20.749 | -3.7 | 95 | 0.00 |
| 14 | CPT | bis2clispreth | 20.000 | 19.816 | 0.9 | 95 | 0.00 |
| 15 | CPT | 2Methylphenol | 20.000 | 20.268 | -1.3 | 94 | 0.00 |
| 16 | CT | Ntrspyrrol | 20.000 | 19.931 | 0.3 | 92 | 0.00 |
| 17 | CPT | Acetophenone | 20.000 | 20.252 | -1.3 | 95 | 0.00 |
| 18 | CPT | Hexaclethane | 20.000 | 19.711 | 1.4 | 94 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 20.000 | 19.906 | 0.5 | 93 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 20.000 | 20.366 | -1.8 | 95 | 0.00 |
| 21 | I | Naphthalened8 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 100.000 | 101.380 | -1.4 | 95 | 0.00 |
| 23 | CPT | Nitrobenzene | 20.000 | 20.216 | -1.1 | 95 | 0.00 |
| 24 | CPT | Isophorone | 20.000 | 20.163 | -0.8 | 93 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 20.000 | 20.226 | -1.1 | 95 | 0.00 |
| 26 | CPT | 24Dimthpheno | 20.000 | 20.650 | -3.2 | 97 | 0.00 |
| 27 | CPT | bis2clethoxym | 20.000 | 20.090 | -0.4 | 94 | 0.00 |
| 28 | CPT | 24Diclphenol | 20.000 | 20.833 | -4.2 | 97 | 0.00 |
| 29 | CT | 124Triclbenz | 20.000 | 20.244 | -1.2 | 96 | 0.00 |
| 30 | CT | Benzoic acid | 20.000 | 24.116 | -20.6# | 118 | 0.00 |
| 31 | CPT | Naphthalene | 20.000 | 20.145 | -0.7 | 96 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 20.000 | 20.685 | -3.4 | 95 | 0.00 |
| 33 | CT | 26Diclphenol | 20.000 | 20.772 | -3.9 | 97 | 0.00 |
| 34 | CT | Hexaclprop | 20.000 | 19.825 | 0.9 | 90 | 0.00 |
| 35 | CPT | Hexaclbutdien | 20.000 | 20.718 | -3.6 | 98 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 20.000 | 20.833 | -4.2 | 95 | 0.00 |
| 37 | CPT | 2Methylnaphth | 20.000 | 20.321 | -1.6 | 96 | 0.00 |
| 38 | CT | 1Methylnaphth | 20.000 | 20.449 | -2.2 | 96 | 0.00 |
| 39 | I | Acenaphthened10 | 20.000 | 20.000 | 0.0 | 97 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 20.000 | 19.530 | 2.3 | 87 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 20.000 | 20.672 | -3.4 | 98 | 0.00 |
| 42 | CPT | 246Triclpheno | 20.000 | 20.909 | -4.5 | 97 | 0.00 |
| 43 | CPT | 245Triclpheno | 20.000 | 21.051 | -5.3 | 99 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 100.000 | 101.086 | -1.1 | 97 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 20.000 | 20.307 | -1.5 | 97 | 0.00 |
| 46 | CPT | 2Nitroaniline | 20.000 | 19.931 | 0.3 | 96 | 0.00 |
| 47 | CPT | Acnaphthylene | 20.000 | 20.480 | -2.4 | 97 | 0.00 |
| 48 | CPT | Dimethylphtha | 20.000 | 20.503 | -2.5 | 97 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 20.000 | 20.290 | -1.4 | 95 | 0.00 |
| 50 | CPT | Acenaphthene | 20.000 | 20.223 | -1.1 | 97 | 0.00 |
| 51 | CPT | 3Nitroaniline | 20.000 | 18.332 | 8.3 | 87 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041425\2CCV409.D Vial: 2
Acq On : 14 Apr 2025 11:00 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:26:43 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 20.000 | 23.843 | -19.2 | 118 | 0.00 |
| 53 | CPT | Dibenzofuran | 20.000 | 20.241 | -1.2 | 97 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 20.000 | 21.256 | -6.3 | 97 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 20.000 | 20.747 | -3.7 | 98 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 20.000 | 23.213 | -16.1 | 110 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 20.000 | 21.570 | -7.9 | 103 | 0.00 |
| 58 | CPT | Fluorene | 20.000 | 21.029 | -5.1 | 99 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 20.000 | 21.297 | -6.5 | 101 | 0.00 |
| 60 | CPT | Diethylphthal | 20.000 | 20.761 | -3.8 | 98 | 0.00 |
| 61 | CPT | 4Nitroaniline | 20.000 | 17.577 | 12.1 | 85 | 0.00 |
| 62 | S | SURR246Tribrphenl | 50.000 | 57.352 | -14.7 | 108 | 0.00 |
| 63 | I | Phenanthrd10 | 20.000 | 20.000 | 0.0 | 97 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 20.000 | 20.530 | -2.7 | 100 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 40.000 | 40.748 | -1.9 | 97 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 40.000 | 40.657 | -1.6 | 97 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 20.000 | 20.846 | -4.2 | 100 | 0.00 |
| 68 | CPT | Hexaclbenzene | 20.000 | 20.932 | -4.7 | 102 | 0.00 |
| 69 | CPT | Pentaclphenol | 20.000 | 25.783 | -28.9# | 133 | 0.00 |
| 70 | CPT | Phenanthrene | 20.000 | 20.260 | -1.3 | 97 | 0.00 |
| 71 | CPT | Anthracene | 20.000 | 20.572 | -2.9 | 98 | 0.00 |
| 72 | CPT | Carbazole | 20.000 | 18.186 | 9.1 | 91 | 0.00 |
| 73 | CPT | Dinbtylphthal | 20.000 | 20.884 | -4.4 | 97 | 0.00 |
| 74 | CPT | Fluoranthene | 20.000 | 20.784 | -3.9 | 99 | 0.00 |
| 75 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 103 | 0.00 |
| 76 | CT | Benzidine | 20.000 | 12.157 | 39.2# | 60 | 0.00 |
| 77 | CPT | Pyrene | 20.000 | 19.891 | 0.5 | 99 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 100.000 | 102.920 | -2.9 | 101 | 0.00 |
| 79 | CPT | Btylbzylphth | 20.000 | 20.442 | -2.2 | 100 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 20.000 | 20.507 | -2.5 | 97 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 20.000 | 19.952 | 0.2 | 106 | 0.00 |
| 82 | CPT | B[a]anthracen | 20.000 | 19.885 | 0.6 | 101 | 0.00 |
| 83 | CPT | Chrysene | 20.000 | 19.985 | 0.1 | 103 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 20.000 | 20.447 | -2.2 | 100 | 0.00 |
| 85 | CPT | Dinoctylphthl | 20.000 | 19.989 | 0.1 | 101 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 91 | 0.00 |
| 87 | CPT | B[b]fluoranth | 20.000 | 21.773 | -8.9 | 94 | 0.00 |
| 88 | CPT | B[k]fluoranth | 20.000 | 21.121 | -5.6 | 94 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 20.000 | 20.763 | -3.8 | 91 | 0.00 |
| 90 | CPT | Indeno-pyrene | 20.000 | 15.314 | 23.4# | 73 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 20.000 | 15.671 | 21.6# | 74 | 0.00 |
| 92 | CPT | B[ghi]perylen | 20.000 | 13.757 | 31.2# | 67 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041425\2CCV409.D Vial: 2
Acq On : 14 Apr 2025 11:00 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:26:43 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 2 | CT | Ntrsdimeth | 0.774 | 0.789 | -1.9 | 95 | 0.00 |
| 3 | CT | Pyridine | 1.384 | 1.387 | -0.2 | 96 | 0.00 |
| 4 | S | SURR2Flphenol | 0.482 | 0.493 | -2.3 | 95 | 0.00 |
| 5 | CT | Aniline | 1.846 | 1.859 | -0.7 | 94 | 0.00 |
| 6 | CPT | bis2Clethletr | 1.215 | 1.209 | 0.5 | 94 | 0.00 |
| 7 | S | SURRPhenol-d5 | 0.579 | 0.593 | -2.4 | 97 | 0.00 |
| 8 | CPT | Phenol | 1.483 | 1.488 | -0.3 | 95 | 0.00 |
| 9 | CPT | 2-Cl-phenol | 1.336 | 1.360 | -1.8 | 95 | 0.00 |
| 10 | CT | 13Diclbenz | 1.455 | 1.483 | -1.9 | 96 | 0.00 |
| 11 | CT | 14Diclbenz | 1.489 | 1.511 | -1.5 | 97 | 0.00 |
| 12 | CT | 12Diclbenz | 1.406 | 1.419 | -0.9 | 95 | 0.00 |
| 13 | CT | Benzyl alcoho | 0.860 | 0.892 | -3.7 | 95 | 0.00 |
| 14 | CPT | bis2clispreth | 2.300 | 2.279 | 0.9 | 95 | 0.00 |
| 15 | CPT | 2Methylphenol | 1.034 | 1.048 | -1.4 | 94 | 0.00 |
| 16 | CT | Ntrspyrrol | 0.646 | 0.643 | 0.5 | 92 | 0.00 |
| 17 | CPT | Acetophenone | 1.871 | 1.894 | -1.2 | 95 | 0.00 |
| 18 | CPT | Hexaclethane | 0.567 | 0.558 | 1.6 | 94 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 0.896 | 0.892 | 0.4 | 93 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 1.340 | 1.365 | -1.9 | 95 | 0.00 |
| 21 | I | Naphthalened8 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 0.054 | 0.055 | -1.9 | 95 | 0.00 |
| 23 | CPT | Nitrobenzene | 0.263 | 0.266 | -1.1 | 95 | 0.00 |
| 24 | CPT | Isophorone | 0.555 | 0.559 | -0.7 | 93 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 0.175 | 0.177 | -1.1 | 95 | 0.00 |
| 26 | CPT | 24Dimthpheno | 0.269 | 0.278 | -3.3 | 97 | 0.00 |
| 27 | CPT | bis2clethoxym | 0.346 | 0.347 | -0.3 | 94 | 0.00 |
| 28 | CPT | 24Diclphenol | 0.252 | 0.262 | -4.0 | 97 | 0.00 |
| 29 | CT | 124Triclbenz | 0.281 | 0.285 | -1.4 | 96 | 0.00 |
| 30 | CT | Benzoic acid | 0.135 | 0.180 | -33.3# | 118 | 0.00 |
| 31 | CPT | Naphthalene | 0.922 | 0.929 | -0.8 | 96 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 0.360 | 0.372 | -3.3 | 95 | 0.00 |
| 33 | CT | 26Diclphenol | 0.248 | 0.257 | -3.6 | 97 | 0.00 |
| 34 | CT | Hexaclprop | 0.181 | 0.179 | 1.1 | 90 | 0.00 |
| 35 | CPT | Hexaclbutdien | 0.165 | 0.171 | -3.6 | 98 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 0.254 | 0.264 | -3.9 | 95 | 0.00 |
| 37 | CPT | 2Methylnaphth | 0.557 | 0.566 | -1.6 | 96 | 0.00 |
| 38 | CT | 1Methylnaphth | 0.577 | 0.589 | -2.1 | 96 | 0.00 |
| 39 | I | Acenaphthened10 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 0.310 | 0.303 | 2.3 | 87 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 0.456 | 0.471 | -3.3 | 98 | 0.00 |
| 42 | CPT | 246Triclpheno | 0.306 | 0.320 | -4.6 | 97 | 0.00 |
| 43 | CPT | 245Triclpheno | 0.332 | 0.350 | -5.4 | 99 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 0.239 | 0.241 | -0.8 | 97 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 1.011 | 1.027 | -1.6 | 97 | 0.00 |
| 46 | CPT | 2Nitroaniline | 0.301 | 0.312 | -3.7 | 96 | 0.00 |
| 47 | CPT | Acnaphthylene | 1.619 | 1.657 | -2.3 | 97 | 0.00 |
| 48 | CPT | Dimethylphtha | 1.182 | 1.212 | -2.5 | 97 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 0.268 | 0.272 | -1.5 | 95 | 0.00 |
| 50 | CPT | Acenaphthene | 0.962 | 0.973 | -1.1 | 97 | 0.00 |
| 51 | CPT | 3Nitroaniline | 0.279 | 0.264 | 5.4 | 87 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S041425\2CCV409.D Vial: 2
Acq On : 14 Apr 2025 11:00 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:26:43 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 0.092 | 0.124 | -34.8# | 118 | 0.00 |
| 53 | CPT | Dibenzofuran | 1.389 | 1.406 | -1.2 | 97 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 0.351 | 0.373 | -6.3 | 97 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 0.191 | 0.205 | -7.3 | 98 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 0.224 | 0.285 | -27.2# | 110 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 0.247 | 0.280 | -13.4 | 103 | 0.00 |
| 58 | CPT | Fluorene | 1.062 | 1.117 | -5.2 | 99 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 0.500 | 0.533 | -6.6 | 101 | 0.00 |
| 60 | CPT | Diethylphthal | 1.177 | 1.221 | -3.7 | 98 | 0.00 |
| 61 | CPT | 4Nitroaniline | 0.242 | 0.222 | 8.3 | 85 | 0.00 |
| 62 | S | SURR246Tribrphenl | 0.054 | 0.061 | -13.0 | 108 | 0.00 |
| 63 | I | Phenanthrd10 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 0.111 | 0.122 | -9.9 | 100 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 0.516 | 0.525 | -1.7 | 97 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 0.184 | 0.187 | -1.6 | 97 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 0.188 | 0.196 | -4.3 | 100 | 0.00 |
| 68 | CPT | Hexaclbenzene | 0.210 | 0.220 | -4.8 | 102 | 0.00 |
| 69 | CPT | Pentaclphenol | 0.081 | 0.117 | -44.4# | 133 | 0.00 |
| 70 | CPT | Phenanthrene | 0.974 | 0.987 | -1.3 | 97 | 0.00 |
| 71 | CPT | Anthracene | 0.991 | 1.020 | -2.9 | 98 | 0.00 |
| 72 | CPT | Carbazole | 0.844 | 0.768 | 9.0 | 91 | 0.00 |
| 73 | CPT | Dinbtylphthal | 1.181 | 1.233 | -4.4 | 97 | 0.00 |
| 74 | CPT | Fluoranthene | 1.029 | 1.069 | -3.9 | 99 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 76 | CT | Benzidine | 0.293 | 0.154 | 47.4# | 60 | 0.00 |
| 77 | CPT | Pyrene | 1.270 | 1.263 | 0.6 | 99 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 0.195 | 0.201 | -3.1 | 101 | 0.00 |
| 79 | CPT | Btylbzylphth | 0.628 | 0.642 | -2.2 | 100 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 0.576 | 0.590 | -2.4 | 97 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 0.316 | 0.299 | 5.4 | 106 | 0.00 |
| 82 | CPT | B[a]anthracen | 1.204 | 1.197 | 0.6 | 101 | 0.00 |
| 83 | CPT | Chrysene | 1.129 | 1.128 | 0.1 | 103 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 0.916 | 0.937 | -2.3 | 100 | 0.00 |
| 85 | CPT | Dinoctylphthl | 1.512 | 1.581 | -4.6 | 101 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 87 | CPT | B[b]fluoranth | 1.059 | 1.153 | -8.9 | 94 | 0.00 |
| 88 | CPT | B[k]fluoranth | 1.061 | 1.121 | -5.7 | 94 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 0.974 | 1.011 | -3.8 | 91 | 0.00 |
| 90 | CPT | Indeno-pyrene | 1.078 | 0.825 | 23.5# | 73 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 0.881 | 0.690 | 21.7# | 74 | 0.00 |
| 92 | CPT | B[ghi]perylen | 0.844 | 0.581 | 31.2# | 67 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 8

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041425\2CCV409.D Vial: 2
Acq On : 14 Apr 2025 11:00 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:26:43 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.295 | 152 | 175703 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 5.986 | 136 | 835226 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.767 | 164 | 469741 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.822 | 188 | 688073 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.694 | 240 | 600600 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.243 | 264 | 557810 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.062 | 112 | 216355 | 51.14 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.14% | | | |
| 7) SURRPhenol-d5 | 3.883 | 99 | 260690 | 51.27 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.27% | | | |
| 22) SURRNitrbenzened5 | 4.980 | 82 | 230720 | 101.38 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.38% | | | |
| 44) SURR2Flbiphenyl | 7.182 | 172 | 566498 | 101.09 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.09% | | | |
| 62) SURR246Tribrphenl | 8.375 | 330 | 72114 | 57.35 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 57.35% | | | |
| 78) SURRTerphenyl-d14 | 9.890 | 244 | 602751 | 102.92 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 102.92% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.269 | 74 | 138651 | 20.3804 | ug/mL | 94 |
| 3) Pyridine | 2.289 | 79 | 243761 | 20.0526 | ug/mL | 97 |
| 5) Aniline | 3.934 | 93 | 326545 | 20.1357 | ug/mL | 99 |
| 6) bis2Clethletr | 4.002 | 93 | 212472 | 19.9095 | ug/mL | 98 |
| 8) Phenol | 3.897 | 94 | 261482 | 20.0699 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.056 | 128 | 238875 | 20.3582 | ug/mL | 99 |
| 10) 13Diclbenz | 4.230 | 146 | 260512 | 20.3852 | ug/mL | 99 |
| 11) 14Diclbenz | 4.315 | 146 | 265404 | 20.2935 | ug/mL | 99 |
| 12) 12Diclbenz | 4.491 | 146 | 249406 | 20.1923 | ug/mL | 98 |
| 13) Benzyl alcoho | 4.460 | 108 | 156745 | 20.7488 | ug/mL | 96 |
| 14) bis2clispreth | 4.636 | 45 | 400353 | 19.8156 | ug/mL | 100 |
| 15) 2Methylphenol | 4.599 | 107 | 184139 | 20.2677 | ug/mL | 99 |
| 16) Ntrspyrrol | 4.761 | 100 | 113048 | 19.9306 | ug/mL | 96 |
| 17) Acetophenone | 4.790 | 105 | 332796 | 20.2519 | ug/mL | 98 |
| 18) Hexaclethane | 4.912 | 117 | 98122 | 19.7113 | ug/mL | 90 |
| 19) N-Ntrsdinprop | 4.801 | 70 | 156728 | 19.9058 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.804 | 107 | 239833 | 20.3656 | ug/mL | 96 |
| 23) Nitrobenzene | 5.005 | 77 | 222299 | 20.2161 | ug/mL | 98 |
| 24) Isophorone | 5.363 | 82 | 467096 | 20.1633 | ug/mL | 100 |
| 25) 2-Nitrophenol | 5.469 | 139 | 147710 | 20.2258 | ug/mL | 96 |
| 26) 24Dimthpheno | 5.568 | 122 | 231794 | 20.6497 | ug/mL | 98 |
| 27) bis2clethoxym | 5.704 | 93 | 289983 | 20.0904 | ug/mL | 98 |
| 28) 24Diclphenol | 5.812 | 162 | 218859 | 20.8328 | ug/mL | 99 |
| 29) 124Triclbenz | 5.920 | 180 | 237796 | 20.2442 | ug/mL | 96 |
| 30) Benzoic acid | 5.733 | 122 | 150388 | 24.1161 | ug/mL | 92 |
| 31) Naphthalene | 6.011 | 128 | 775968 | 20.1446 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.099 | 127 | 310918 | 20.6849 | ug/mL | 98 |
| 33) 26Diclphenol | 6.105 | 162 | 214890 | 20.7725 | ug/mL | 99 |
| 34) Hexaclprop | 6.131 | 213 | 149623 | 19.8247 | ug/mL | 100 |
| 35) Hexaclbutdien | 6.187 | 225 | 142502 | 20.7175 | ug/mL | 99 |
| 36) 4Cl3methylphe | 6.682 | 107 | 220738 | 20.8334 | ug/mL | 95 |
| 37) 2Methylnaphth | 6.810 | 142 | 473094 | 20.3212 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.906 | 142 | 492359 | 20.4491 | ug/mL | 97 |
| 40) Hxclcycpentdi | 6.975 | 237 | 142212 | 19.5296 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041425\2CCV409.D Vial: 2
Acq On : 14 Apr 2025 11:00 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:26:43 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

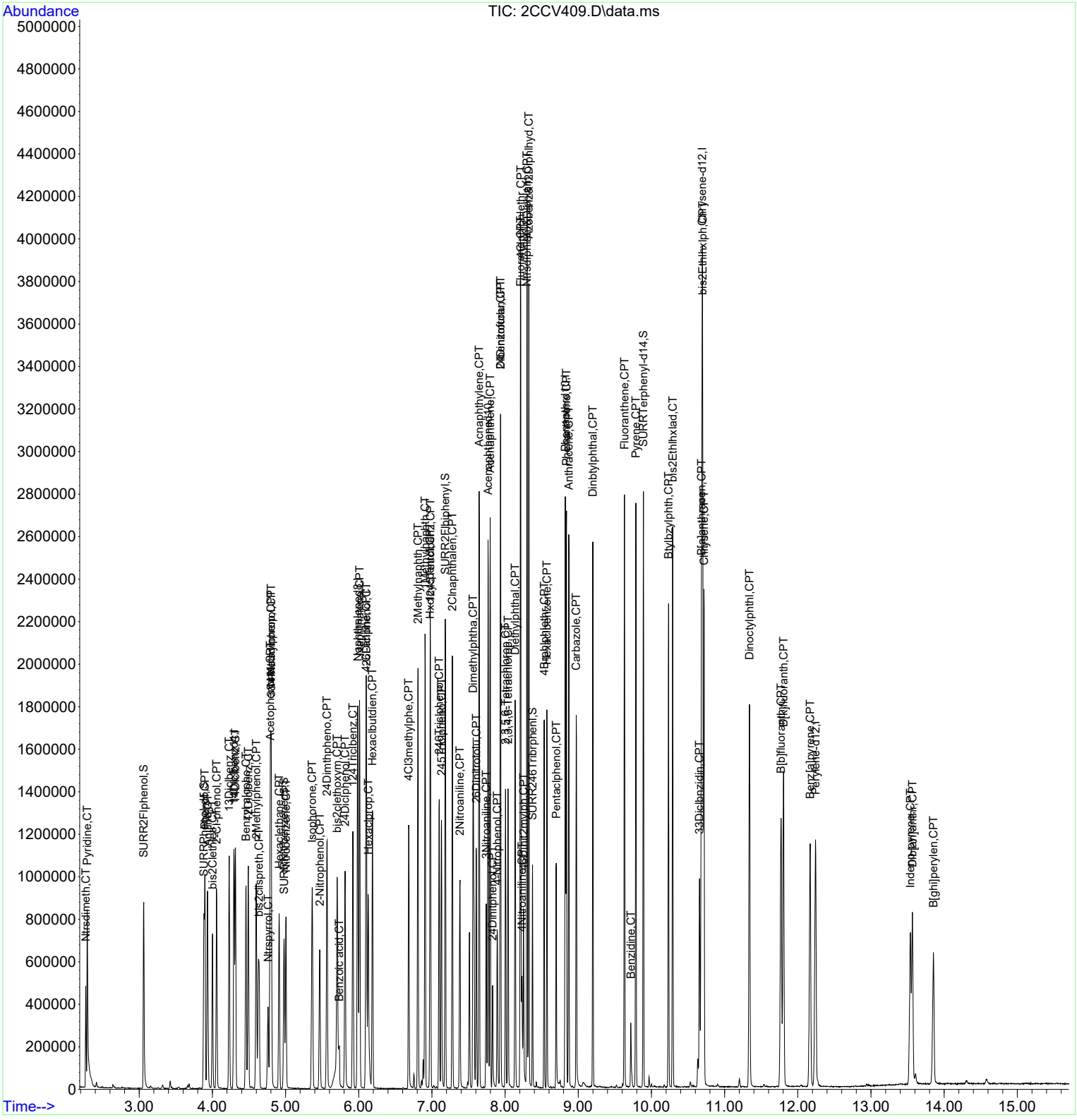
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 6.980 | 216 | 221293 | 20.6723 | ug/mL | 99 |
| 42) 246Triclpheno | 7.100 | 196 | 150229 | 20.9093 | ug/mL | 95 |
| 43) 245Triclpheno | 7.131 | 196 | 164390 | 21.0506 | ug/mL | 96 |
| 45) 2Clnaphthalen | 7.279 | 162 | 482310 | 20.3068 | ug/mL | 99 |
| 46) 2Nitroaniline | 7.384 | 65 | 146682 | 19.9312 | ug/mL | 96 |
| 47) Acnaphthylene | 7.645 | 152 | 778580 | 20.4796 | ug/mL | 99 |
| 48) Dimethylphtha | 7.563 | 163 | 569341 | 20.5031 | ug/mL | 99 |
| 49) 26Dinitrotolu | 7.605 | 165 | 127874 | 20.2903 | ug/mL | 98 |
| 50) Acenaphthene | 7.796 | 154 | 456912 | 20.2226 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.742 | 138 | 123992 | 18.3322 | ug/mL | 96 |
| 52) 24Dinitphenol | 7.830 | 184 | 58294 | 23.8425 | ug/mL | 95 |
| 53) Dibenzofuran | 7.938 | 168 | 660412 | 20.2407 | ug/mL | 98 |
| 54) 24Dinitrotolu | 7.938 | 165 | 175332 | 21.2562 | ug/mL | 96 |
| 55) 4-Nitrophenol | 7.892 | 65 | 96456 | 20.7474 | ug/mL | 96 |
| 56) 2,3,5,6-Tetrachlorop | 8.006 | 232 | 134026 | 23.2130 | ug/mL | 95 |
| 57) 2,3,4,6-Tetrachlorop | 8.040 | 232 | 131735 | 21.5704 | ug/mL | 94 |
| 58) Fluorene | 8.211 | 166 | 524514 | 21.0290 | ug/mL | 98 |
| 59) 4Clphlphlethr | 8.213 | 204 | 250171 | 21.2965 | ug/mL | 99 |
| 60) Diethylphthal | 8.137 | 149 | 573696 | 20.7610 | ug/mL | 100 |
| 61) 4Nitroaniline | 8.230 | 138 | 104096 | 17.5770 | ug/mL | 93 |
| 64) 46Dinit2mylph | 8.253 | 198 | 83967 | 20.5298 | ug/mL | 99 |
| 65) Ntrsdiphlam&Diphlam | 8.299 | 169 | 722881 | 40.7479 | ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.324 | 182 | 257196 | 40.6574 | ug/mL | 96 |
| 67) 4Brphlphlethr | 8.535 | 248 | 134677 | 20.8460 | ug/mL | 95 |
| 68) Hexaclbenzene | 8.571 | 284 | 151246 | 20.9316 | ug/mL | 97 |
| 69) Pentaclphenol | 8.699 | 266 | 80385 | 25.7834 | ug/mL | 97 |
| 70) Phenanthrene | 8.839 | 178 | 679165 | 20.2599 | ug/mL | 99 |
| 71) Anthracene | 8.870 | 178 | 701646 | 20.5722 | ug/mL | 100 |
| 72) Carbazole | 8.972 | 167 | 528172 | 18.1861 | ug/mL | 98 |
| 73) Dinbtylphthal | 9.199 | 149 | 848474 | 20.8839 | ug/mL | 100 |
| 74) Fluoranthene | 9.631 | 202 | 735718 | 20.7840 | ug/mL | 100 |
| 76) Benzidine | 9.719 | 184 | 92764 | 12.1569 | ug/mL | 96 |
| 77) Pyrene | 9.788 | 202 | 758834 | 19.8913 | ug/mL | 100 |
| 79) Btylbzylphth | 10.234 | 149 | 385578 | 20.4422 | ug/mL | 96 |
| 80) bis2Ethlhxlad | 10.291 | 129 | 354608 | 20.5075 | ug/mL | 99 |
| 81) 33Diclbnzidin | 10.657 | 252 | 179836 | 19.9516 | ug/mL | 97 |
| 82) B[a]anthracen | 10.683 | 228 | 719049 | 19.8854 | ug/mL | 99 |
| 83) Chrysene | 10.720 | 228 | 677732 | 19.9848 | ug/mL | 98 |
| 84) bis2Ethlhxlph | 10.700 | 149 | 562698 | 20.4475 | ug/mL | 99 |
| 85) Dinoctylphthl | 11.339 | 149 | 949461 | 19.9894 | ug/mL | 100 |
| 87) B[b]fluoranth | 11.771 | 252 | 643350 | 21.7729 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.805 | 252 | 625286 | 21.1211 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.169 | 252 | 564211 | 20.7631 | ug/mL | 97 |
| 90) Indeno-pyrene | 13.538 | 276 | 460267 | 15.3140 | ug/mL | 97 |
| 91) Dib[ah]anthr | 13.567 | 278 | 385000 | 15.6707 | ug/mL | 96 |
| 92) B[ghi]perylen | 13.854 | 276 | 323948 | 13.7572 | ug/mL | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041425\2CCV409.D Vial: 2
Acq On : 14 Apr 2025 11:00 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:26:43 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Ending CCV %Recovery Report

| | |
|---|---|
| Data File Name | 2CCV410.D |
| Data File Path | C:\INSTARCH\DATA\2S041425\ |
| Operator | JJY |
| Date Acquired | 4/14/2025 15:32 |
| Acq. Method File | 2S040925.M |
| Sample Name | CCV 20 ug/mL SVMS10298 |
| Misc Info | 500 ul + 5ul IS S5036C |
| Vial Number | 13 |
| Instrument Name | SVMS2 |
| Sample Multiplier | 1 |

| # | Name | Ret Time | Amount | Units | Response | 50-150 %REC |
|---|---|---|---|---|---|---|
| 1 | 14Diclbenzd4 | 4.30 | 20.00 | ug/mL | 181611 | ISTD |
| 2 | Ntrsdimeth | 2.27 | 20.52 | ug/mL | 144315 | 103 |
| 3 | Pyridine | 2.29 | 19.93 | ug/mL | 250397 | 100 |
| 4 | SURR2Flphenol | 3.06 | 51.82 | %REC | 226566 | 104 |
| 5 | Aniline | 3.93 | 20.27 | ug/mL | 339845 | 101 |
| 6 | bis2Clethletr | 4.00 | 20.07 | ug/mL | 221372 | 100 |
| 7 | SURRPhenol-d5 | 3.89 | 51.90 | %REC | 272757 | 104 |
| 8 | Phenol | 3.90 | 20.24 | ug/mL | 272502 | 101 |
| 9 | 2-Cl-phenol | 4.06 | 20.54 | ug/mL | 249072 | 103 |
| 10 | 13Diclbenz | 4.23 | 20.52 | ug/mL | 271084 | 103 |
| 11 | 14Diclbenz | 4.32 | 20.35 | ug/mL | 275144 | 102 |
| 12 | 12Diclbenz | 4.49 | 20.36 | ug/mL | 259979 | 102 |
| 13 | Benzyl alcoho | 4.46 | 21.03 | ug/mL | 164215 | 105 |
| 14 | bis2clispreth | 4.63 | 19.62 | ug/mL | 409811 | 98 |
| 15 | 2Methylphenol | 4.60 | 20.72 | ug/mL | 194621 | 104 |
| 16 | Ntrspyrrol | 4.76 | 20.59 | ug/mL | 120743 | 103 |
| 17 | Acetophenone | 4.79 | 20.48 | ug/mL | 347831 | 102 |
| 18 | Hexaclethane | 4.91 | 19.98 | ug/mL | 102815 | 100 |
| 19 | N-Ntrsdinprop | 4.80 | 19.85 | ug/mL | 161569 | 99 |
| 20 | 3&4Methylphenol | 4.80 | 20.58 | ug/mL | 250451 | 103 |
| 21 | Naphthalened8 | 5.99 | 20.00 | ug/mL | 863853 | ISTD |
| 22 | SURRNitrbenzened5 | 4.98 | 102.82 | %REC | 242027 | 103 |
| 23 | Nitrobenzene | 5.01 | 20.35 | ug/mL | 231423 | 102 |
| 24 | Isophorone | 5.37 | 20.26 | ug/mL | 485358 | 101 |
| 25 | 2-Nitrophenol | 5.47 | 20.60 | ug/mL | 155571 | 103 |
| 26 | 24Dimthpheno | 5.57 | 19.93 | ug/mL | 231366 | 100 |
| 27 | bis2clethoxym | 5.71 | 20.07 | ug/mL | 299645 | 100 |
| 28 | 24Diclphenol | 5.82 | 21.48 | ug/mL | 233388 | 107 |
| 29 | 124Triclbenz | 5.92 | 20.54 | ug/mL | 181611 | 103 |
| 30 | Benzoic acid | 5.74 | 22.73 | ug/mL | 249518 | 114 |
| 31 | Naphthalene | 6.01 | 20.46 | ug/mL | 814949 | 102 |
| 32 | 4-Cl-aniline | 6.10 | 21.76 | ug/mL | 338356 | 109 |
| 33 | 26Diclphenol | 6.11 | 20.82 | ug/mL | 222810 | 104 |
| 34 | Hexaclprop | 6.13 | 16.24 | ug/mL | 126773 | 81 |
| 35 | Hexaclbutdien | 6.19 | 21.40 | ug/mL | 152262 | 107 |
| 36 | 4Cl3methylphe | 6.68 | 21.24 | ug/mL | 232718 | 106 |
| 37 | 2Methylnaphth | 6.81 | 20.82 | ug/mL | 501260 | 104 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 38 | 1Methylnaphth | 6.91 | 20.66 | ug/mL | 514545 | 103 |
| 39 | Acenaphthened10 | 7.77 | 20.00 | ug/mL | 181611 | ISTD |
| 40 | Hxclcycpentdi | 6.98 | 11.93 | ug/mL | 497228 | 60 |
| 41 | 1245Tetrclbenz | 6.98 | 20.47 | ug/mL | 231988 | 102 |
| 42 | 246Triclpheno | 7.10 | 21.23 | ug/mL | 161490 | 106 |
| 43 | 245Triclpheno | 7.13 | 20.97 | ug/mL | 173322 | 105 |
| 44 | SURR2Flbiphenyl | 7.18 | 99.09 | %REC | 587782 | 99 |
| 45 | 2Clnaphthalen | 7.28 | 20.18 | ug/mL | 507309 | 101 |
| 46 | 2Nitroaniline | 7.38 | 20.05 | ug/mL | 156248 | 100 |
| 47 | Acnaphthylene | 7.65 | 20.20 | ug/mL | 181611 | 101 |
| 48 | Dimethylphtha | 7.57 | 20.11 | ug/mL | 812723 | 101 |
| 49 | 26Dinitrotolu | 7.61 | 20.27 | ug/mL | 135200 | 101 |
| 50 | Acenaphthene | 7.80 | 19.97 | ug/mL | 477596 | 100 |
| 51 | 3Nitroaniline | 7.74 | 21.24 | ug/mL | 152929 | 106 |
| 52 | 24Dinitphenol | 7.83 | 13.30 | ug/mL | 27156 | 66 |
| 53 | Dibenzofuran | 7.94 | 20.05 | ug/mL | 692575 | 100 |
| 54 | 24Dinitrotolu | 7.94 | 20.81 | ug/mL | 181611 | 104 |
| 55 | 4-Nitrophenol | 7.90 | 20.58 | ug/mL | 181654 | 103 |
| 56 | 2,3,5,6-Tetrachlorop | 8.01 | 23.16 | ug/mL | 141534 | 116 |
| 57 | 2,3,4,6-Tetrachlorop | 8.04 | 21.91 | ug/mL | 141680 | 110 |
| 58 | Fluorene | 8.21 | 20.79 | ug/mL | 548786 | 104 |
| 59 | 4Clphlphlethr | 8.22 | 20.89 | ug/mL | 259793 | 104 |
| 60 | Diethylphthal | 8.14 | 20.38 | ug/mL | 596098 | 102 |
| 61 | 4Nitroaniline | 8.23 | 23.21 | ug/mL | 147277 | 116 |
| 62 | SURR246Tribrphenl | 8.38 | 56.76 | %REC | 75550 | 114 |
| 63 | Phenanthrd10 | 8.82 | 20.00 | ug/mL | 729337 | ISTD |
| 64 | 46Dinit2mylph | 8.25 | 12.36 | ug/mL | 49011 | 62 |
| 65 | Ntrsdiphlam&Diphlam | 8.30 | 40.96 | ug/mL | 770240 | 102 |
| 66 | Azobenz&12Diphlhyd | 8.33 | 40.02 | ug/mL | 268339 | 100 |
| 67 | 4Brphlphlethr | 8.53 | 20.39 | ug/mL | 139657 | 102 |
| 68 | Hexaclbenzene | 8.57 | 21.01 | ug/mL | 160918 | 105 |
| 69 | Pentaclphenol | 8.70 | 26.96 | ug/mL | 90103 | 135 |
| 70 | Phenanthrene | 8.84 | 20.03 | ug/mL | 711782 | 100 |
| 71 | Anthracene | 8.87 | 20.33 | ug/mL | 735088 | 102 |
| 72 | Carbazole | 8.98 | 21.38 | ug/mL | 658272 | 107 |
| 73 | Dinbtylphthal | 9.20 | 20.61 | ug/mL | 887367 | 103 |
| 74 | Fluoranthene | 9.63 | 20.77 | ug/mL | 779480 | 104 |
| 75 | Chrysene-d12 | 10.70 | 20.00 | ug/mL | 636265 | ISTD |
| 76 | Benzidine | 9.72 | 24.15 | ug/mL | 221605 | 121 |
| 77 | Pyrene | 9.79 | 19.71 | ug/mL | 796649 | 99 |
| 78 | SURRTerphenyl-d14 | 9.89 | 101.78 | %REC | 631456 | 102 |
| 79 | Btylbzylphth | 10.23 | 20.48 | ug/mL | 409312 | 102 |
| 80 | bis2Ethlhxlad | 10.29 | 20.20 | ug/mL | 369956 | 101 |
| 81 | 33Diclbnzidin | 10.66 | 27.05 | ug/mL | 270551 | 135 |
| 82 | B[a]anthracen | 10.69 | 20.30 | ug/mL | 777537 | 101 |
| 83 | Chrysene | 10.72 | 19.96 | ug/mL | 716932 | 100 |
| 84 | bis2Ethlhxlph | 10.70 | 20.41 | ug/mL | 595067 | 102 |
| 85 | Dinoctylphthl | 11.34 | 20.28 | ug/mL | 1021232 | 101 |
| 86 | Perylene-d12 | 12.25 | 20.00 | ug/mL | 545282 | ISTD |
| 87 | B[b]fluoranth | 11.77 | 22.72 | ug/mL | 656363 | 114 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 88 | B[k]fluoranth | 11.81 | 22.86 | ug/mL | 661701 | 114 | |
| 89 | Benz[a]pyrene | 12.17 | 21.05 | ug/mL | 559063 | 105 | |
| 90 | Indeno-pyrene | 13.54 | 11.75 | ug/mL | 345193 | 59 | |
| 91 | Dib[ah]anthr | 13.57 | 12.14 | ug/mL | 291673 | 61 | |
| 92 | B[ghi]perylen | 13.86 | 9.54 | ug/mL | 219705 | 48 | # |

(#) = recovery out of range Average Percent Recovery = 101

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041425\2CCV410.D Vial: 13
Acq On : 14 Apr 2025 15:32 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:30:49 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.295 | 152 | 181611 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 5.989 | 136 | 863853 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.770 | 164 | 497228 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.824 | 188 | 729337 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.697 | 240 | 636265 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.246 | 264 | 545282 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.062 | 112 | 226566 | 51.82 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.82% | | | |
| 7) SURRPhenol-d5 | 3.886 | 99 | 272757 | 51.90 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.90% | | | |
| 22) SURRNitrbenzened5 | 4.980 | 82 | 242027 | 102.82 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 102.82% | | | |
| 44) SURR2Flbiphenyl | 7.185 | 172 | 587782 | 99.09 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 99.09% | | | |
| 62) SURR246Tribrphenl | 8.376 | 330 | 75550 | 56.76 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 56.76% | | | |
| 78) SURRTerphenyl-d14 | 9.893 | 244 | 631456 | 101.78 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 101.78% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.269 | 74 | 144315 | 20.5228 | ug/mL | 99 |
| 3) Pyridine | 2.286 | 79 | 250397 | 19.9284 | ug/mL | 99 |
| 5) Aniline | 3.934 | 93 | 339845 | 20.2741 | ug/mL | 100 |
| 6) bis2Clethletr | 4.003 | 93 | 221372 | 20.0687 | ug/mL | 99 |
| 8) Phenol | 3.900 | 94 | 272502 | 20.2353 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.059 | 128 | 249072 | 20.5367 | ug/mL | 97 |
| 10) 13Diclbenz | 4.230 | 146 | 271084 | 20.5224 | ug/mL | 98 |
| 11) 14Diclbenz | 4.315 | 146 | 275144 | 20.3538 | ug/mL | 97 |
| 12) 12Diclbenz | 4.491 | 146 | 259979 | 20.3636 | ug/mL | 96 |
| 13) Benzyl alcoho | 4.460 | 108 | 164215 | 21.0305 | ug/mL | 97 |
| 14) bis2clispreth | 4.633 | 45 | 409811 | 19.6238 | ug/mL | 97 |
| 15) 2Methylphenol | 4.599 | 107 | 194621 | 20.7245 | ug/mL | 97 |
| 16) Ntrspyrrol | 4.764 | 100 | 120743 | 20.5947 | ug/mL | 98 |
| 17) Acetophenone | 4.792 | 105 | 347831 | 20.4783 | ug/mL | 98 |
| 18) Hexaclethane | 4.912 | 117 | 102815 | 19.9821 | ug/mL | 94 |
| 19) N-Ntrsdinprop | 4.804 | 70 | 161569 | 19.8530 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.804 | 107 | 250451 | 20.5753 | ug/mL | 96 |
| 23) Nitrobenzene | 5.006 | 77 | 231423 | 20.3484 | ug/mL | 98 |
| 24) Isophorone | 5.366 | 82 | 485358 | 20.2573 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.469 | 139 | 155571 | 20.5963 | ug/mL | 98 |
| 26) 24Dimthpheno | 5.568 | 122 | 231366 | 19.9286 | ug/mL | 99 |
| 27) bis2clethoxym | 5.707 | 93 | 299645 | 20.0718 | ug/mL | 98 |
| 28) 24Diclphenol | 5.815 | 162 | 233388 | 21.4796 | ug/mL | 97 |
| 29) 124Triclbenz | 5.921 | 180 | 249518 | 20.5382 | ug/mL | 98 |
| 30) Benzoic acid | 5.742 | 122 | 145340 | 22.7347 | ug/mL | 92 |
| 31) Naphthalene | 6.014 | 128 | 814949 | 20.4555 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.102 | 127 | 338356 | 21.7643 | ug/mL | 99 |
| 33) 26Diclphenol | 6.108 | 162 | 222810 | 20.8243 | ug/mL | 98 |
| 34) Hexaclprop | 6.131 | 213 | 126773 | 16.2405 | ug/mL | 98 |
| 35) Hexaclbutdien | 6.188 | 225 | 152262 | 21.4029 | ug/mL | 98 |
| 36) 4Cl3methylphe | 6.685 | 107 | 232718 | 21.2362 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.810 | 142 | 501260 | 20.8175 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.909 | 142 | 514545 | 20.6623 | ug/mL | 100 |
| 40) Hxclcycpentdi | 6.978 | 237 | 91931 | 11.9267 | ug/mL | 97 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041425\2CCV410.D Vial: 13
Acq On : 14 Apr 2025 15:32 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:30:49 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

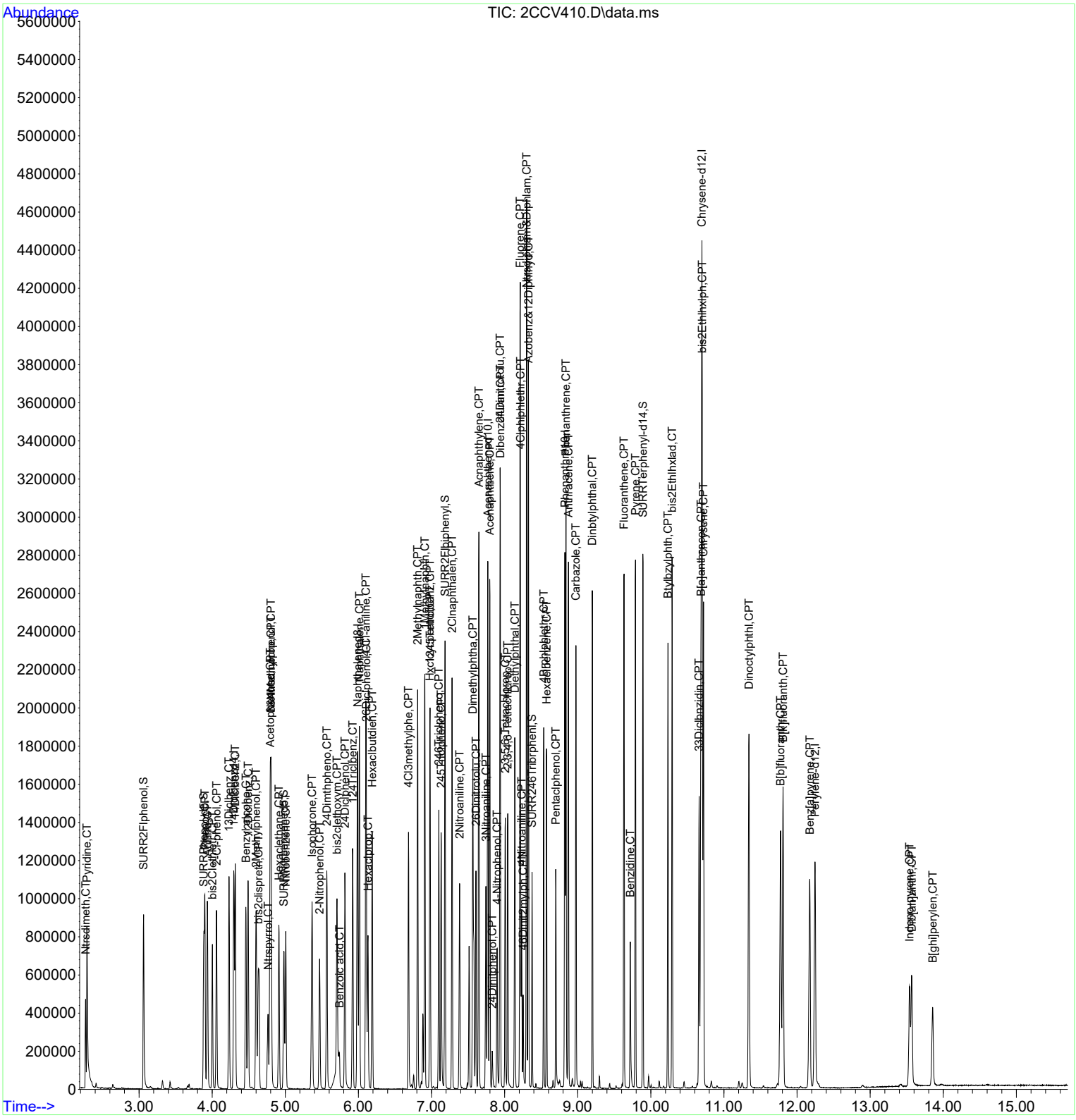
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 6.980 | 216 | 231988 | 20.4734 ug/mL | 99 |
| 42) 246Triclpheno | 7.100 | 196 | 161490 | 21.2341 ug/mL | 96 |
| 43) 245Triclpheno | 7.131 | 196 | 173322 | 20.9675 ug/mL | 96 |
| 45) 2Clnaphthalen | 7.282 | 162 | 507309 | 20.1786 ug/mL | 99 |
| 46) 2Nitroaniline | 7.384 | 65 | 156248 | 20.0535 ug/mL | 97 |
| 47) Acnaphthylene | 7.648 | 152 | 812723 | 20.1959 ug/mL | 99 |
| 48) Dimethylphtha | 7.566 | 163 | 591084 | 20.1094 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.608 | 165 | 135200 | 20.2669 ug/mL | 93 |
| 50) Acenaphthene | 7.796 | 154 | 477596 | 19.9695 ug/mL | 99 |
| 51) 3Nitroaniline | 7.745 | 138 | 152929 | 21.2440 ug/mL | 98 |
| 52) 24Dinitphenol | 7.833 | 184 | 27156 | 13.2992 ug/mL | 97 |
| 53) Dibenzofuran | 7.941 | 168 | 692575 | 20.0531 ug/mL | 99 |
| 54) 24Dinitrotolu | 7.938 | 165 | 181654 | 20.8053 ug/mL | 100 |
| 55) 4-Nitrophenol | 7.895 | 65 | 101206 | 20.5757 ug/mL | 98 |
| 56) 2,3,5,6-Tetrachlorop | 8.009 | 232 | 141534 | 23.1619 ug/mL | 96 |
| 57) 2,3,4,6-Tetrachlorop | 8.043 | 232 | 141680 | 21.9098 ug/mL | 94 |
| 58) Fluorene | 8.211 | 166 | 548786 | 20.7858 ug/mL | 99 |
| 59) 4Clphlphlethr | 8.216 | 204 | 259793 | 20.8931 ug/mL | 96 |
| 60) Diethylphthal | 8.140 | 149 | 596098 | 20.3792 ug/mL | 99 |
| 61) 4Nitroaniline | 8.233 | 138 | 147277 | 23.2149 ug/mL | 98 |
| 64) 46Dinit2mylph | 8.253 | 198 | 49011 | 12.3624 ug/mL | 94 |
| 65) Ntrsdiphlam&Diphlam | 8.302 | 169 | 770240 | 40.9610 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.327 | 182 | 268339 | 40.0189 ug/mL# | 85 |
| 67) 4Brphlphlethr | 8.535 | 248 | 139657 | 20.3938 ug/mL | 98 |
| 68) Hexaclbenzene | 8.574 | 284 | 160918 | 21.0102 ug/mL | 95 |
| 69) Pentaclphenol | 8.699 | 266 | 90103 | 26.9581 ug/mL | 96 |
| 70) Phenanthrene | 8.839 | 178 | 711782 | 20.0316 ug/mL | 100 |
| 71) Anthracene | 8.873 | 178 | 735088 | 20.3333 ug/mL | 99 |
| 72) Carbazole | 8.975 | 167 | 658272 | 21.3833 ug/mL | 100 |
| 73) Dinbtylphthal | 9.200 | 149 | 887367 | 20.6055 ug/mL | 100 |
| 74) Fluoranthene | 9.634 | 202 | 779480 | 20.7744 ug/mL | 99 |
| 76) Benzidine | 9.720 | 184 | 221605 | 24.1535 ug/mL | 99 |
| 77) Pyrene | 9.791 | 202 | 796649 | 19.7120 ug/mL | 99 |
| 79) Btylbzylphth | 10.234 | 149 | 409312 | 20.4841 ug/mL | 96 |
| 80) bis2Ethlhxlad | 10.291 | 129 | 369956 | 20.1958 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.660 | 252 | 270551 | 27.0505 ug/mL | 99 |
| 82) B[a]anthracen | 10.686 | 228 | 777537 | 20.2976 ug/mL | 98 |
| 83) Chrysene | 10.720 | 228 | 716932 | 19.9558 ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.703 | 149 | 595067 | 20.4116 ug/mL | 99 |
| 85) Dinoctylphthl | 11.342 | 149 | 1021232 | 20.2814 ug/mL | 99 |
| 87) B[b]fluoranth | 11.774 | 252 | 656363 | 22.7237 ug/mL | 100 |
| 88) B[k]fluoranth | 11.808 | 252 | 661701 | 22.8647 ug/mL | 99 |
| 89) Benz[a]pyrene | 12.175 | 252 | 559063 | 21.0463 ug/mL | 97 |
| 90) Indeno-pyrene | 13.538 | 276 | 345193 | 11.7491 ug/mL | 99 |
| 91) Dib[ah]anthr | 13.570 | 278 | 291673 | 12.1448 ug/mL | 96 |
| 92) B[ghi]perylen | 13.857 | 276 | 219705 | 9.5446 ug/mL | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041425\2CCV410.D Vial: 13
Acq On : 14 Apr 2025 15:32 Operator: JJY
Sample : CCV 20 ug/mL SVMS10298 Inst : SVMS2
Misc : 500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 16:30:49 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 16:26:34 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



# SEMI - VOLATILE ORGANIC ANALYSIS
# QUALITY CONTROL
# DOCUMENTS

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2MBW01.D Vial: 11
Acq On : 8 Apr 2025 13:35 Operator: JJY
Sample : 290647,MBW, Inst : SVMS2
Misc : 1569377,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 13:51:40 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

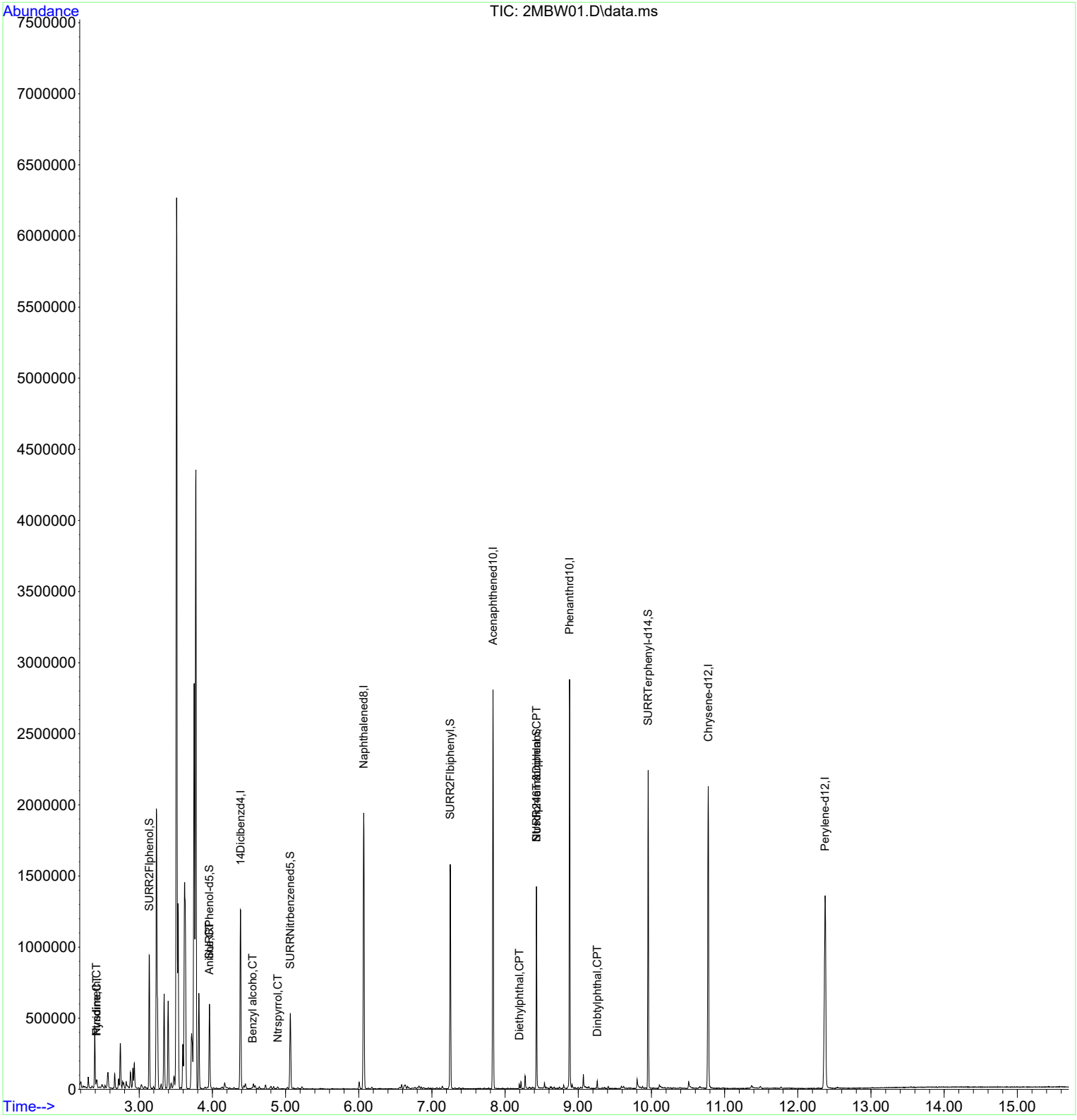
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 186748 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.068 | 136 | 883662 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.836 | 164 | 496258 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.881 | 188 | 707977 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.777 | 240 | 636416 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.373 | 264 | 646178 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.139 | 112 | 193520 | 42.12 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 42.12% | | | |
| 7) SURRPhenol-d5 | 3.960 | 99 | 154299 | 28.03 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 28.03% | | | |
| 22) SURRNitrbenzened5 | 5.065 | 82 | 161076 | 67.43 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 67.43% | | | |
| 44) SURR2Flbiphenyl | 7.250 | 172 | 394448 | 67.01 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 67.01% | | | |
| 62) SURR246Tribrphenl | 8.430 | 330 | 91066 | 71.32 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 71.32% | | | |
| 78) SURRTerphenyl-d14 | 9.955 | 244 | 491164 | 79.32 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 79.32% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.414 | 74 | 344 | 0.0465 | ug/mL# | 1 |
| 3) Pyridine | 2.420 | 79 | 1272 | 0.0971 | ug/mL# | 11 |
| 5) Aniline | 3.957 | 93 | 704 | 0.0402 | ug/mL# | 1 |
| 13) Benzyl alcoho | 4.548 | 108 | 589 | 0.0723 | ug/mL# | 59 |
| 16) Ntrspyrrol | 4.895 | 100 | 600 | 0.0981 | ug/mL# | 37 |
| 60) Diethylphthal | 8.197 | 149 | 2741 | 0.0955 | ug/mL | 95 |
| 65) Ntrsdiphlam&Diphlam | 8.430 | 169 | 3601 | 0.1372 | ug/mL# | 33 |
| 73) Dinbtylphthal | 9.259 | 149 | 16455 | 0.3890 | ug/mL | 98 |

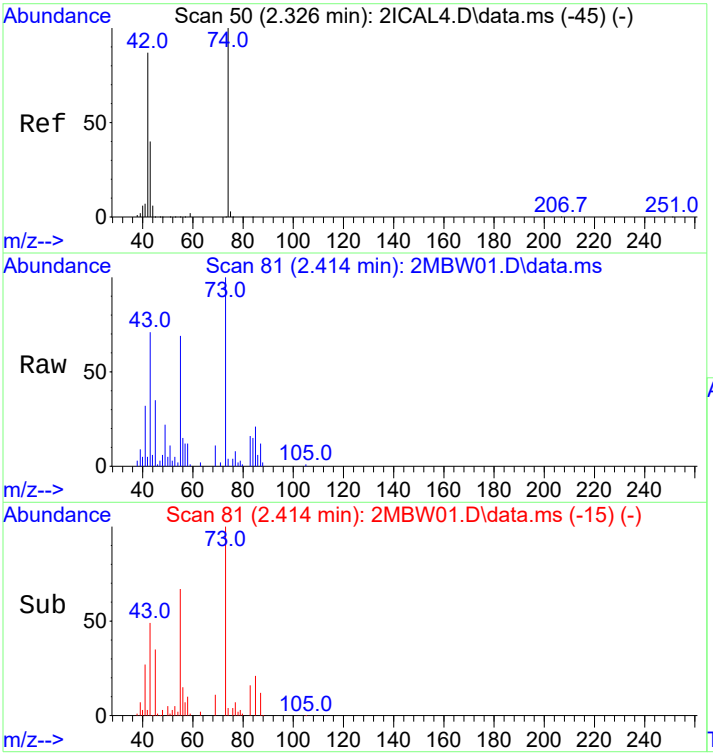
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2MBW01.D Vial: 11
Acq On : 8 Apr 2025 13:35 Operator: JJY
Sample : 290647,MBW, Inst : SVMS2
Misc : 1569377,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 13:51:40 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

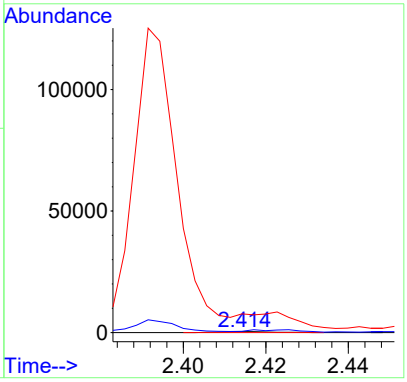


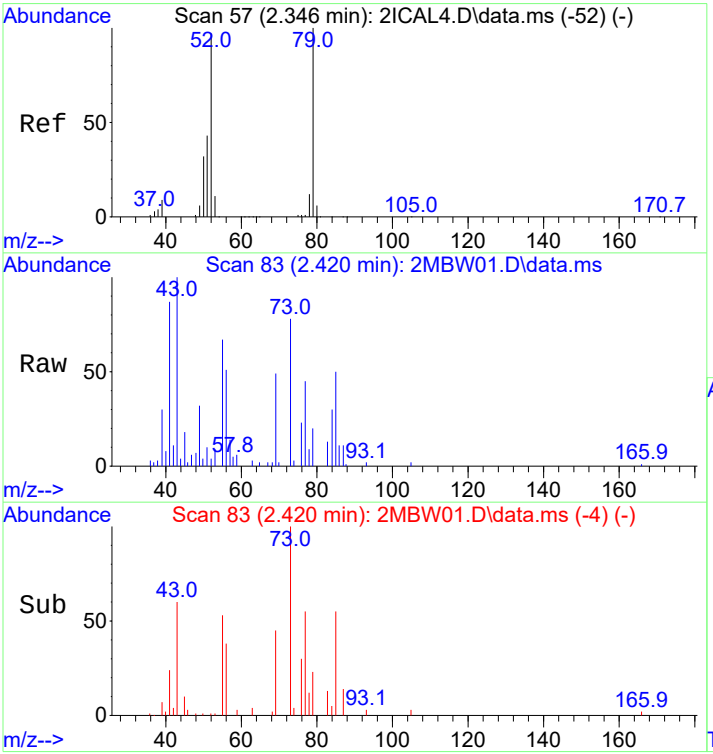



#2
Ntrsdimeth
Concen: 0.05 ug/mL
RT: 2.414 min Scan# 81
Delta R.T. 0.088 min
Lab File: 2MBW01.D
Acq: 8 Apr 2025 13:35

Tgt Ion: 74 Resp: 344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 77.2 | 57.1 | 117.1 |
| 43 | 1252.7 | 9.5 | 69.5# |

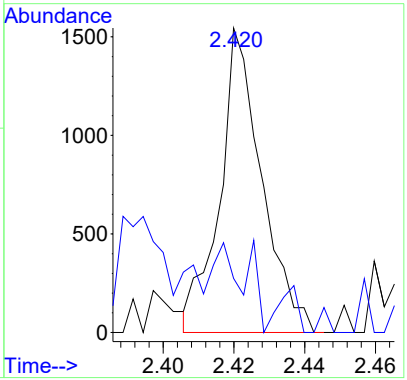


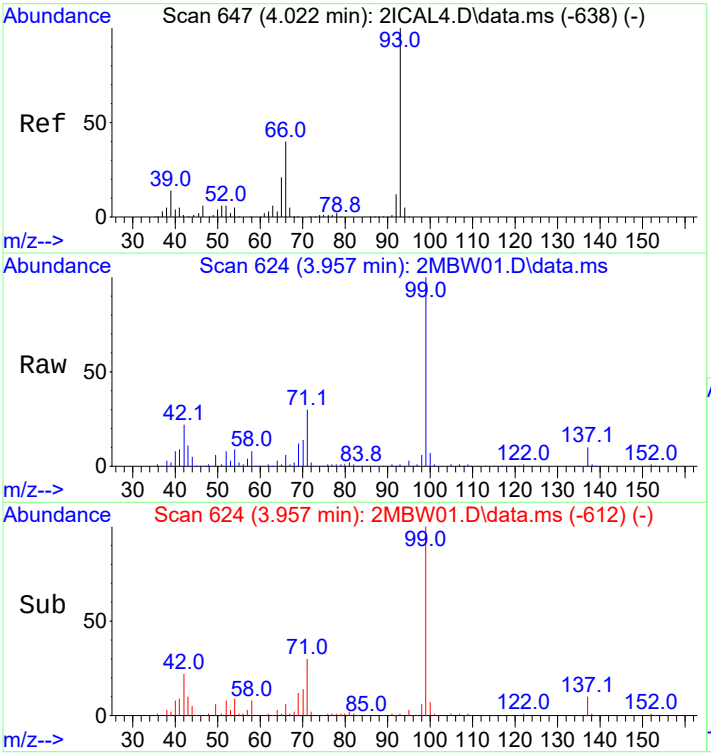




#3
Pyridine
Concen: 0.10 ug/mL
RT: 2.420 min Scan# 83
Delta R.T. 0.074 min
Lab File: 2MBW01.D
Acq: 8 Apr 2025 13:35

Tgt Ion: 79 Resp: 1272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 9.6 | 66.5 | 126.5# |

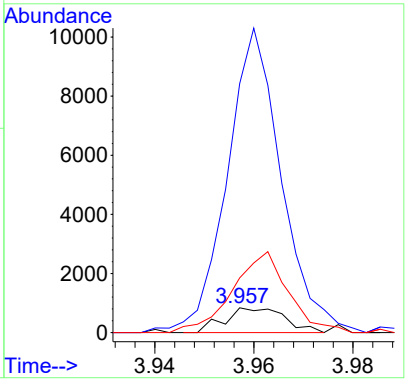


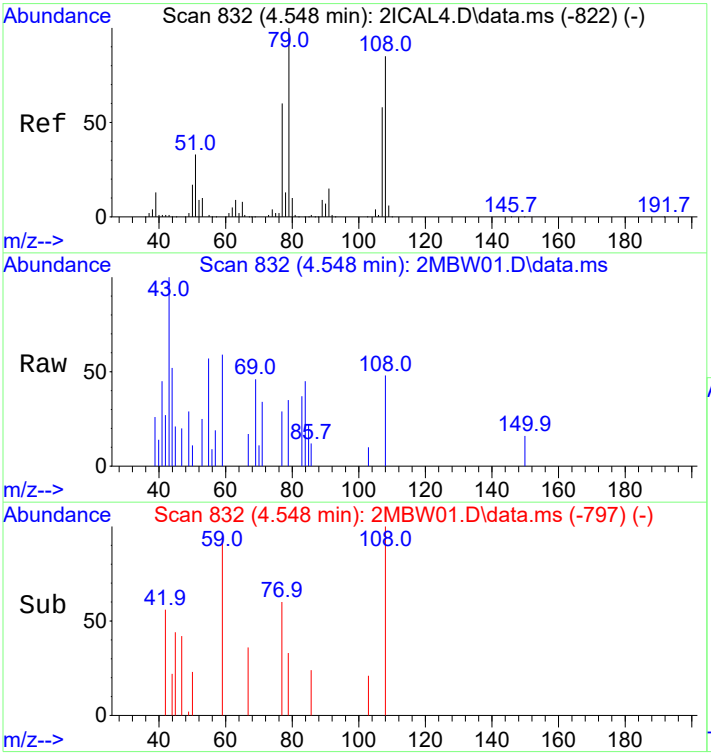



#5
Aniline
Concen: 0.04 ug/mL
RT: 3.957 min Scan# 624
Delta R.T. -0.065 min
Lab File: 2MBW01.D
Acq: 8 Apr 2025 13:35

Tgt Ion: 93 Resp: 704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 1112.5 | 10.3 | 70.3# |
| 65 | 0.0 | 0.0 | 51.7 |

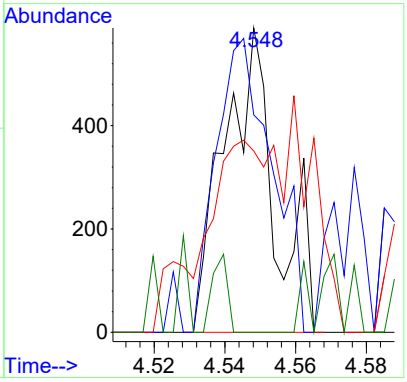


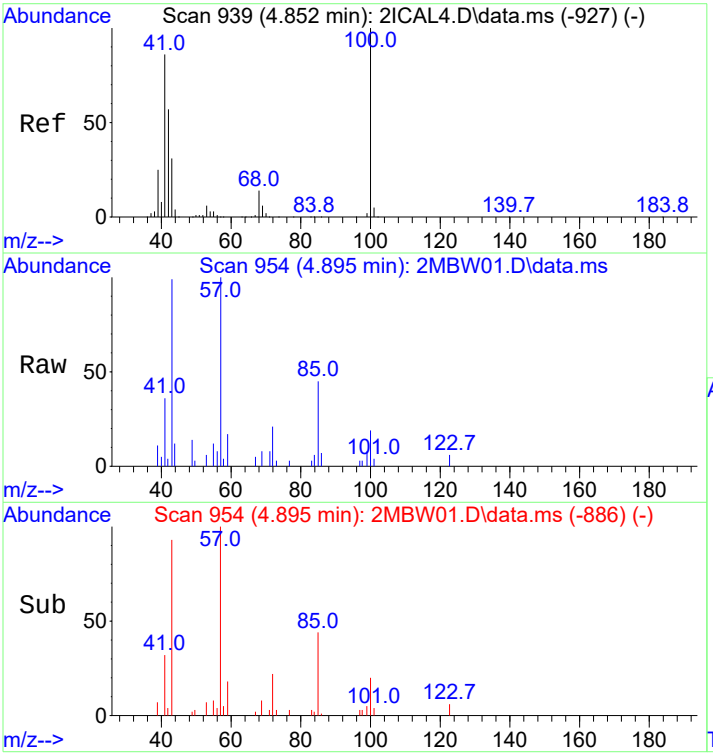




#13
Benzyl alcoho
Concen: 0.07 ug/mL
RT: 4.548 min Scan# 832
Delta R.T. 0.000 min
Lab File: 2MBW01.D
Acq: 8 Apr 2025 13:35

Tgt Ion:108 Resp: 589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 108 | 100 | | |
| 79 | 71.5 | 87.6 | 147.6# |
| 77 | 37.9 | 40.9 | 100.9# |
| 91 | 0.0 | 0.0 | 48.0 |

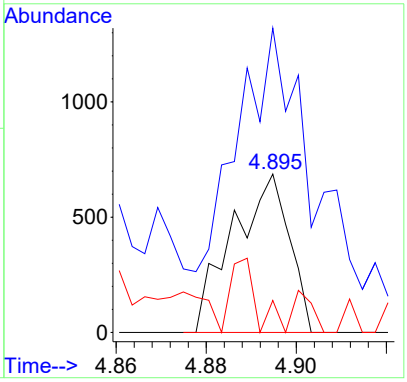


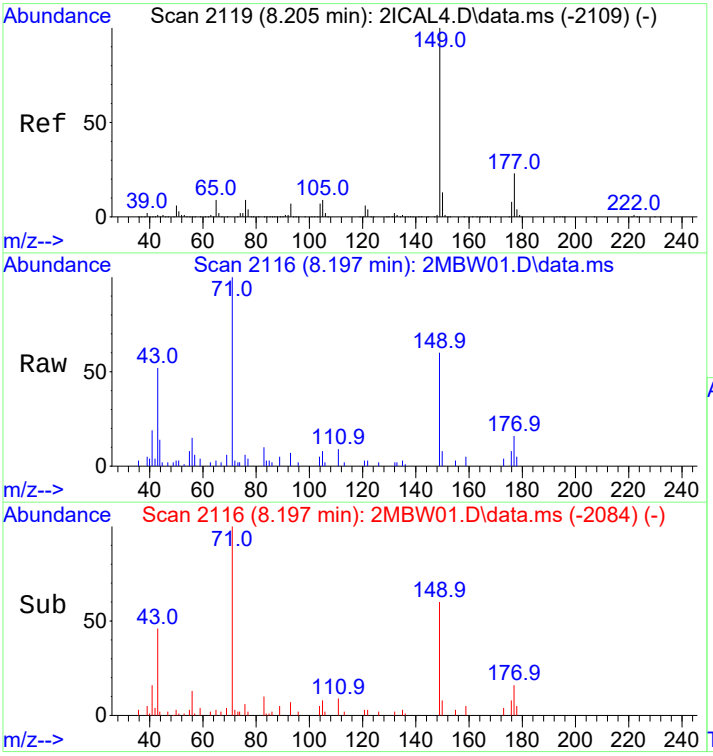



#16
Ntrspyrrol
Concen: 0.10 ug/mL
RT: 4.895 min Scan# 954
Delta R.T. 0.043 min
Lab File: 2MBW01.D
Acq: 8 Apr 2025 13:35

Tgt Ion:100 Resp: 600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 100 | 100 | | |
| 41 | 152.0 | 55.5 | 115.5# |
| 42 | 20.2 | 26.5 | 86.5# |

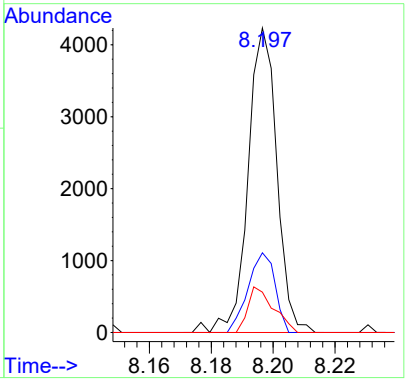


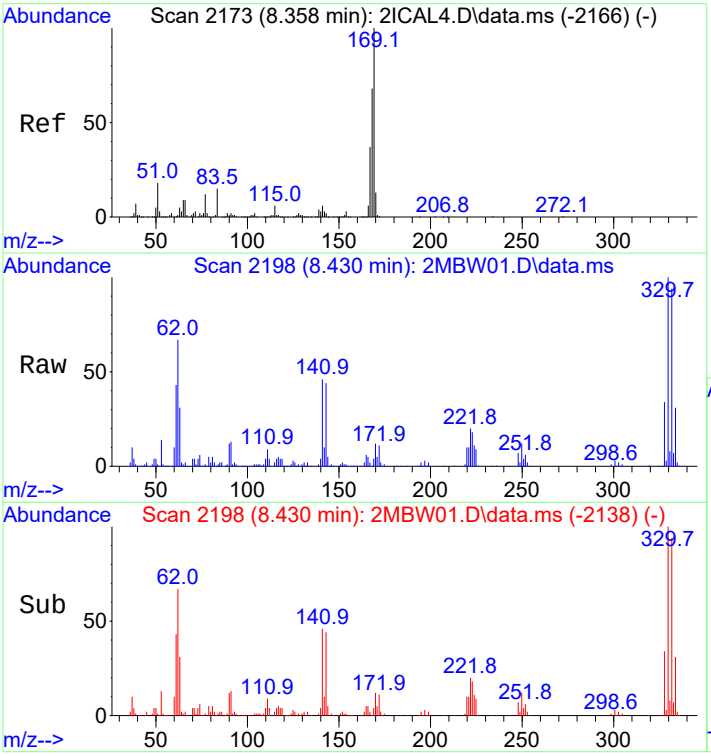




#60
Diethylphthal
Concen: 0.10 ug/mL
RT: 8.197 min Scan# 2116
Delta R.T. -0.008 min
Lab File: 2MBW01.D
Acq: 8 Apr 2025 13:35

Tgt Ion:149 Resp: 2741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 26.1 | 0.0 | 52.6 |
| 150 | 13.2 | 0.0 | 42.5 |

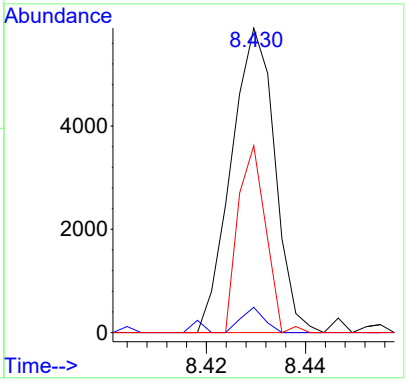


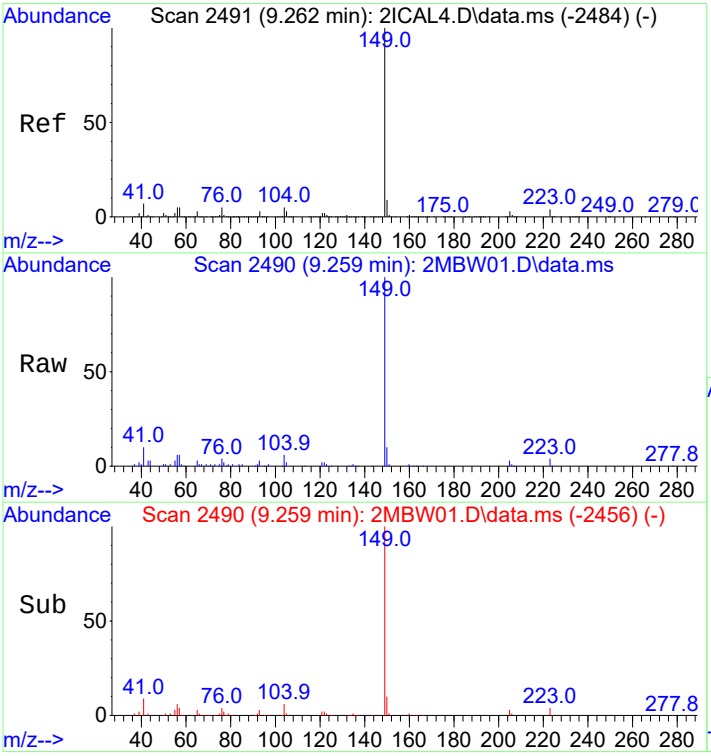



#65
Ntrsdiphlam&Diphlam
Concen: 0.14 ug/mL
RT: 8.430 min Scan# 2198
Delta R.T. 0.072 min
Lab File: 2MBW01.D
Acq: 8 Apr 2025 13:35

Tgt Ion:169 Resp: 3601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 8.3 | 37.9 | 97.9# |
| 167 | 69.7 | 7.0 | 67.0# |

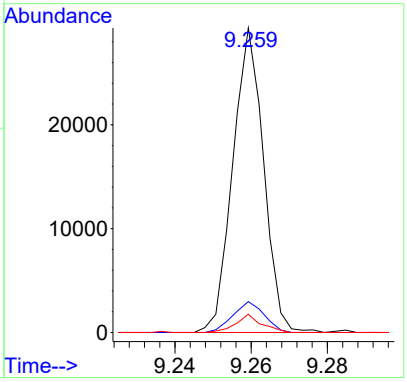



#73
Dinbtylphthal
Concen: 0.39 ug/mL
RT: 9.259 min Scan# 2490
Delta R.T. -0.003 min
Lab File: 2MBW01.D
Acq: 8 Apr 2025 13:35

Tgt Ion:149 Resp: 16455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 10.1 | 0.0 | 39.4 |
| 104 | 6.0 | 0.0 | 35.0 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2LCSW01.D Vial: 12
Acq On : 8 Apr 2025 13:58 Operator: JJY
Sample : 290647,LCSW, Inst : SVMS2
Misc : 1569378,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 14:14:38 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 171007 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.071 | 136 | 843102 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.839 | 164 | 475009 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 682907 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.779 | 240 | 589402 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.376 | 264 | 624612 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.142 | 112 | 195658 | 46.51 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 46.51% | | | |
| 7) SURRPhenol-d5 | 3.963 | 99 | 158382 | 31.42 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 31.42% | | | |
| 22) SURRNitrbenzened5 | 5.068 | 82 | 160041 | 70.22 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 70.22% | | | |
| 44) SURR2Flbiphenyl | 7.253 | 172 | 397157 | 70.49 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 70.49% | | | |
| 62) SURR246Tribrphenl | 8.432 | 330 | 101682 | 83.20 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 83.20% | | | |
| 78) SURRTerphenyl-d14 | 9.955 | 244 | 474640 | 82.76 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 82.76% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.338 | 74 | 63905 | 9.4259 | ug/mL | 97 |
| 3) Pyridine | 2.374 | 79 | 19513 | 1.6263 | ug/mL | 94 |
| 5) Aniline | 4.017 | 93 | 158897 | 9.9166 | ug/mL | 99 |
| 6) bis2Clethletr | 4.085 | 93 | 150300 | 14.2440 | ug/mL | 99 |
| 8) Phenol | 3.977 | 94 | 81973 | 6.4145 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.145 | 128 | 151230 | 13.1919 | ug/mL | 99 |
| 10) 13Diclbenz | 4.318 | 146 | 157746 | 12.5094 | ug/mL | 97 |
| 11) 14Diclbenz | 4.403 | 146 | 159451 | 12.4888 | ug/mL | 99 |
| 12) 12Diclbenz | 4.582 | 146 | 152888 | 12.6819 | ug/mL | 98 |
| 13) Benzyl alcoho | 4.545 | 108 | 92103 | 12.3503 | ug/mL | 96 |
| 14) bis2clispreth | 4.719 | 45 | 278034 | 13.6744 | ug/mL | 98 |
| 15) 2Methylphenol | 4.685 | 107 | 106706 | 11.8936 | ug/mL | 97 |
| 16) Ntrspyrrol | 4.844 | 100 | 79518 | 14.1998 | ug/mL | 98 |
| 17) Acetophenone | 4.878 | 105 | 232562 | 14.5528 | ug/mL | 97 |
| 18) Hexaclethane | 5.006 | 117 | 58466 | 11.9757 | ug/mL | 95 |
| 19) N-Ntrsdinprop | 4.886 | 70 | 111979 | 14.2254 | ug/mL | 99 |
| 20) 3&4Methylphenol | 4.886 | 107 | 130804 | 11.3297 | ug/mL | 93 |
| 23) Nitrobenzene | 5.094 | 77 | 154331 | 13.8690 | ug/mL | 98 |
| 24) Isophorone | 5.457 | 82 | 336459 | 14.2275 | ug/mL | 97 |
| 25) 2-Nitrophenol | 5.563 | 139 | 100157 | 13.8418 | ug/mL | 100 |
| 26) 24Dimthpheno | 5.654 | 122 | 145841 | 12.6139 | ug/mL | 97 |
| 27) bis2clethoxym | 5.793 | 93 | 207041 | 14.1591 | ug/mL | 99 |
| 28) 24Diclphenol | 5.898 | 162 | 148075 | 14.0962 | ug/mL | 99 |
| 29) 124Triclbenz | 6.006 | 180 | 145935 | 12.3757 | ug/mL | 98 |
| 30) Benzoic acid | 5.756 | 122 | 35069 | 8.2696 | ug/mL | 93 |
| 31) Naphthalene | 6.097 | 128 | 513216 | 13.1564 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.179 | 127 | 158308 | 10.6563 | ug/mL | 96 |
| 33) 26Diclphenol | 6.182 | 162 | 128592 | 12.3562 | ug/mL | 98 |
| 34) Hexaclprop | 6.210 | 213 | 71716 | 9.0767 | ug/mL | 94 |
| 35) Hexaclbutdien | 6.267 | 225 | 80364 | 11.5126 | ug/mL | 97 |
| 36) 4Cl3methylphe | 6.753 | 107 | 158853 | 14.8936 | ug/mL | 98 |
| 37) 2Methylnaphth | 6.881 | 142 | 318737 | 13.5245 | ug/mL | 97 |
| 38) 1Methylnaphth | 6.978 | 142 | 334958 | 13.6094 | ug/mL | 98 |
| 40) Hxclcycpentdi | 7.046 | 237 | 54221 | 7.0661 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2LCSW01.D Vial: 12
Acq On : 8 Apr 2025 13:58 Operator: JJY
Sample : 290647,LCSW, Inst : SVMS2
Misc : 1569378,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 14:14:38 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

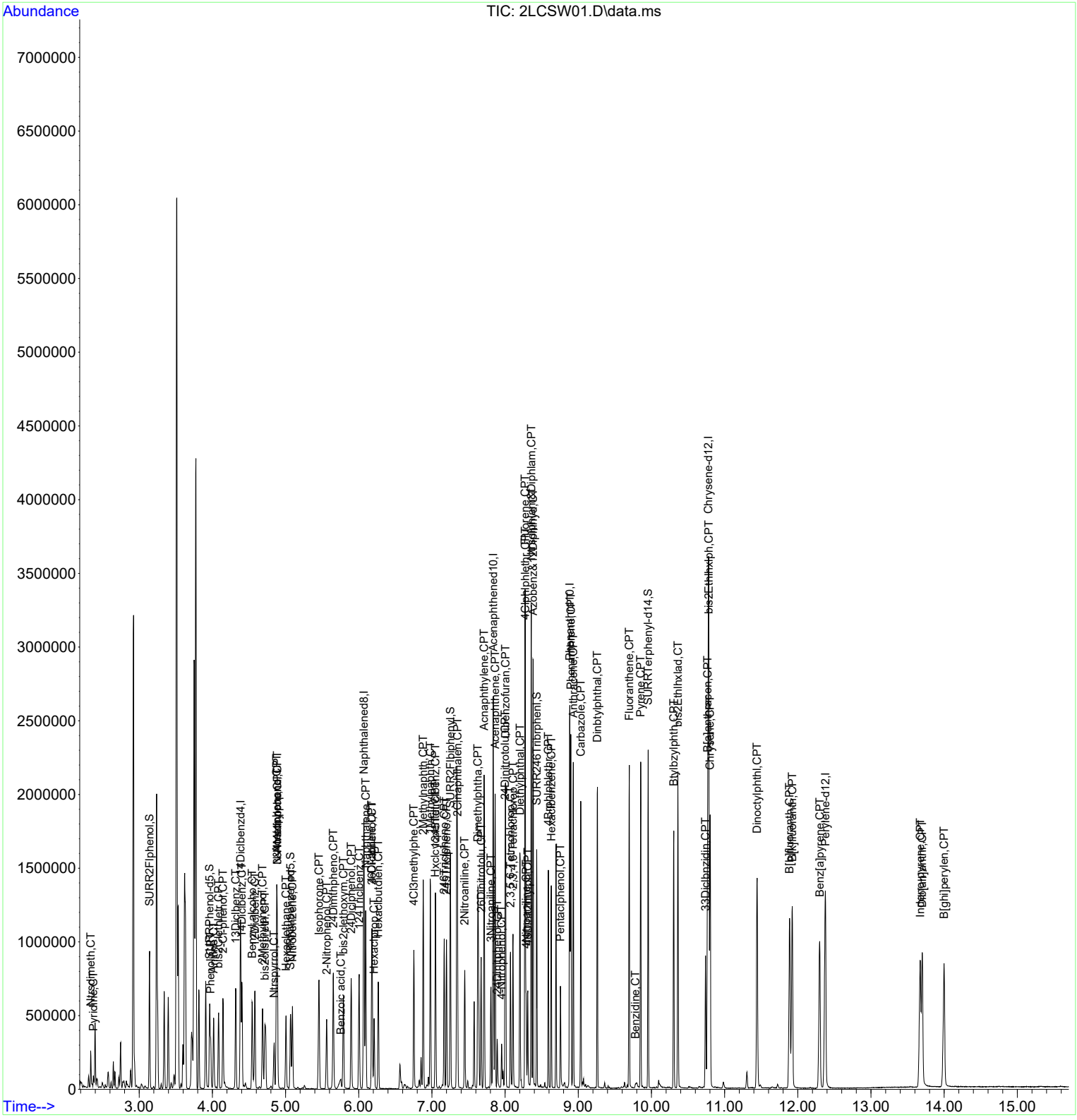
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.049 | 216 | 141856 | 13.1136 ug/mL | 98 |
| 42) 246Triclpheno | 7.168 | 196 | 106194 | 14.5415 ug/mL | 99 |
| 43) 245Triclpheno | 7.199 | 196 | 117978 | 15.1903 ug/mL | 98 |
| 45) 2Clnaphthalen | 7.350 | 162 | 326216 | 13.7222 ug/mL | 99 |
| 46) 2Nitroaniline | 7.449 | 65 | 111787 | 15.9161 ug/mL | 96 |
| 47) Acnaphthylene | 7.714 | 152 | 544519 | 14.1579 ug/mL | 99 |
| 48) Dimethylphtha | 7.628 | 163 | 454073 | 16.3251 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.674 | 165 | 102231 | 16.2887 ug/mL | 92 |
| 50) Acenaphthene | 7.864 | 154 | 331753 | 14.5834 ug/mL | 96 |
| 51) 3Nitroaniline | 7.807 | 138 | 95703 | 15.6087 ug/mL | 98 |
| 52) 24Dinitphenol | 7.893 | 184 | 37119 | 15.0297 ug/mL | 93 |
| 53) Dibenzofuran | 8.006 | 168 | 497994 | 15.2506 ug/mL | 99 |
| 54) 24Dinitrotolu | 8.001 | 165 | 139083 | 16.9848 ug/mL | 96 |
| 55) 4-Nitrophenol | 7.952 | 65 | 35028 | 8.7073 ug/mL | 90 |
| 56) 2,3,5,6-Tetrachlorop | 8.074 | 232 | 90566 | 16.0387 ug/mL | 95 |
| 57) 2,3,4,6-Tetrachlorop | 8.109 | 232 | 98513 | 16.2705 ug/mL | 97 |
| 58) Fluorene | 8.273 | 166 | 385136 | 15.7032 ug/mL | 99 |
| 59) 4Clphlphlethr | 8.276 | 204 | 181696 | 15.7671 ug/mL | 94 |
| 60) Diethylphthal | 8.205 | 149 | 451739 | 16.4480 ug/mL | 99 |
| 61) 4Nitroaniline | 8.288 | 138 | 92335 | 16.8257 ug/mL | 96 |
| 64) 46Dinit2mylph | 8.310 | 198 | 65201 | 16.0222 ug/mL | 98 |
| 65) Ntrsdiphlam&Diphlam | 8.359 | 169 | 528279 | 29.4442 ug/mL | 97 |
| 66) Azobenz&12Diphlhyd | 8.384 | 182 | 201375 | 31.4895 ug/mL | 89 |
| 67) 4Brphlphlethr | 8.592 | 248 | 102117 | 15.8870 ug/mL | 96 |
| 68) Hexaclbenzene | 8.631 | 284 | 114864 | 15.8397 ug/mL | 96 |
| 69) Pentaclphenol | 8.756 | 266 | 49505 | 15.7035 ug/mL | 95 |
| 70) Phenanthrene | 8.898 | 178 | 544988 | 16.3519 ug/mL | 99 |
| 71) Anthracene | 8.933 | 178 | 564896 | 16.7027 ug/mL | 100 |
| 72) Carbazole | 9.035 | 167 | 498613 | 17.6733 ug/mL | 100 |
| 73) Dinbtylphthal | 9.262 | 149 | 719783 | 17.6404 ug/mL | 100 |
| 74) Fluoranthene | 9.697 | 202 | 601217 | 16.9908 ug/mL | 99 |
| 76) Benzidine | 9.782 | 184 | 7334 | 0.3754 ug/mL | 97 |
| 77) Pyrene | 9.853 | 202 | 620910 | 16.4967 ug/mL | 99 |
| 79) Btylbzylphth | 10.305 | 149 | 316948 | 16.6386 ug/mL | 99 |
| 80) bis2Ethlhxlad | 10.362 | 129 | 294755 | 16.5710 ug/mL | 100 |
| 81) 33Diclbnzidin | 10.740 | 252 | 154264 | 23.3569 ug/mL | 99 |
| 82) B[a]anthracen | 10.768 | 228 | 571980 | 16.1967 ug/mL | 99 |
| 83) Chrysene | 10.802 | 228 | 536528 | 16.1079 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.785 | 149 | 464497 | 16.7329 ug/mL | 99 |
| 85) Dinoctylphthl | 11.444 | 149 | 786934 | 16.7069 ug/mL | 99 |
| 87) B[b]fluoranth | 11.888 | 252 | 545926 | 16.7030 ug/mL | 99 |
| 88) B[k]fluoranth | 11.925 | 252 | 541693 | 16.4361 ug/mL | 100 |
| 89) Benz[a]pyrene | 12.300 | 252 | 493983 | 16.2485 ug/mL | 99 |
| 90) Indeno-pyrene | 13.675 | 276 | 560662 | 16.6803 ug/mL | 99 |
| 91) Dib[ah]anthr | 13.700 | 278 | 460200 | 16.6923 ug/mL | 97 |
| 92) B[ghi]perylen | 13.999 | 276 | 440314 | 16.7412 ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2LCSW01.D Vial: 12
Acq On : 8 Apr 2025 13:58 Operator: JJY
Sample : 290647,LCSW, Inst : SVMS2
Misc : 1569378,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 14:14:38 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2LCSDW01.D Vial: 13
Acq On : 8 Apr 2025 14:21 Operator: JJY
Sample : 290647,LCSDW, Inst : SVMS2
Misc : 1569379,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 14:37:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 14Diclbenzd4 | 4.386 | 152 | 165866 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.068 | 136 | 814716 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.836 | 164 | 462968 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.884 | 188 | 671620 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.779 | 240 | 581218 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.379 | 264 | 615331 | 20.00 | ug/mL | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) SURR2Flphenol | 3.142 | 112 | 190210 | 46.61 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 46.61% | | | |
| 7) SURRPhenol-d5 | 3.963 | 99 | 157977 | 32.31 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 32.31% | | | |
| 22) SURRNitrbenzened5 | 5.068 | 82 | 162446 | 73.76 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 73.76% | | | |
| 44) SURR2Flbiphenyl | 7.250 | 172 | 397759 | 72.43 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 72.43% | | | |
| 62) SURR246Tribrphenl | 8.432 | 330 | 105524 | 88.58 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 88.58% | | | |
| 78) SURRTerphenyl-d14 | 9.955 | 244 | 482058 | 85.24 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 85.24% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.340 | 74 | 64906 | 9.8703 | ug/mL | 99 |
| 3) Pyridine | 2.377 | 79 | 24025 | 2.0645 | ug/mL | 91 |
| 5) Aniline | 4.017 | 93 | 166611 | 10.7203 | ug/mL | 100 |
| 6) bis2Clethletr | 4.085 | 93 | 155476 | 15.1913 | ug/mL | 97 |
| 8) Phenol | 3.977 | 94 | 81819 | 6.6009 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.145 | 128 | 154147 | 13.8631 | ug/mL | 97 |
| 10) 13Diclbenz | 4.318 | 146 | 161030 | 13.1656 | ug/mL | 99 |
| 11) 14Diclbenz | 4.406 | 146 | 165768 | 13.3860 | ug/mL | 98 |
| 12) 12Diclbenz | 4.579 | 146 | 160632 | 13.7372 | ug/mL | 97 |
| 13) Benzyl alcoho | 4.542 | 108 | 94918 | 13.1223 | ug/mL | 98 |
| 14) bis2clispreth | 4.719 | 45 | 288013 | 14.6043 | ug/mL | 99 |
| 15) 2Methylphenol | 4.685 | 107 | 110723 | 12.7238 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.844 | 100 | 78082 | 14.3755 | ug/mL | 95 |
| 17) Acetophenone | 4.878 | 105 | 238701 | 15.3999 | ug/mL | 97 |
| 18) Hexaclethane | 5.006 | 117 | 61765 | 13.0435 | ug/mL | 96 |
| 19) N-Ntrsdinprop | 4.886 | 70 | 116239 | 15.2242 | ug/mL | 98 |
| 20) 3&4Methylphenol | 4.886 | 107 | 135458 | 12.0965 | ug/mL | 94 |
| 23) Nitrobenzene | 5.094 | 77 | 161150 | 14.9864 | ug/mL | 98 |
| 24) Isophorone | 5.457 | 82 | 347001 | 15.1845 | ug/mL | 98 |
| 25) 2-Nitrophenol | 5.563 | 139 | 104382 | 14.9283 | ug/mL | 99 |
| 26) 24Dimthpheno | 5.651 | 122 | 147993 | 13.2460 | ug/mL | 98 |
| 27) bis2clethoxym | 5.790 | 93 | 212301 | 15.0247 | ug/mL | 99 |
| 28) 24Diclphenol | 5.898 | 162 | 153177 | 15.0900 | ug/mL | 99 |
| 29) 124Triclbenz | 6.003 | 180 | 148753 | 13.0542 | ug/mL | 94 |
| 30) Benzoic acid | 5.742 | 122 | 22019 | 6.5191 | ug/mL | 99 |
| 31) Naphthalene | 6.094 | 128 | 528855 | 14.0296 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.176 | 127 | 152122 | 10.5967 | ug/mL | 97 |
| 33) 26Diclphenol | 6.182 | 162 | 132061 | 13.1316 | ug/mL | 99 |
| 34) Hexaclprop | 6.210 | 213 | 76249 | 9.9866 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.267 | 225 | 82413 | 12.2174 | ug/mL | 98 |
| 36) 4Cl3methylphe | 6.753 | 107 | 163319 | 15.8458 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.881 | 142 | 330597 | 14.5165 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.978 | 142 | 348578 | 14.6562 | ug/mL | 99 |
| 40) Hxclcycpentdi | 7.046 | 237 | 57803 | 7.7288 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2LCSDW01.D Vial: 13
Acq On : 8 Apr 2025 14:21 Operator: JJY
Sample : 290647,LCSDW, Inst : SVMS2
Misc : 1569379,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 14:37:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M

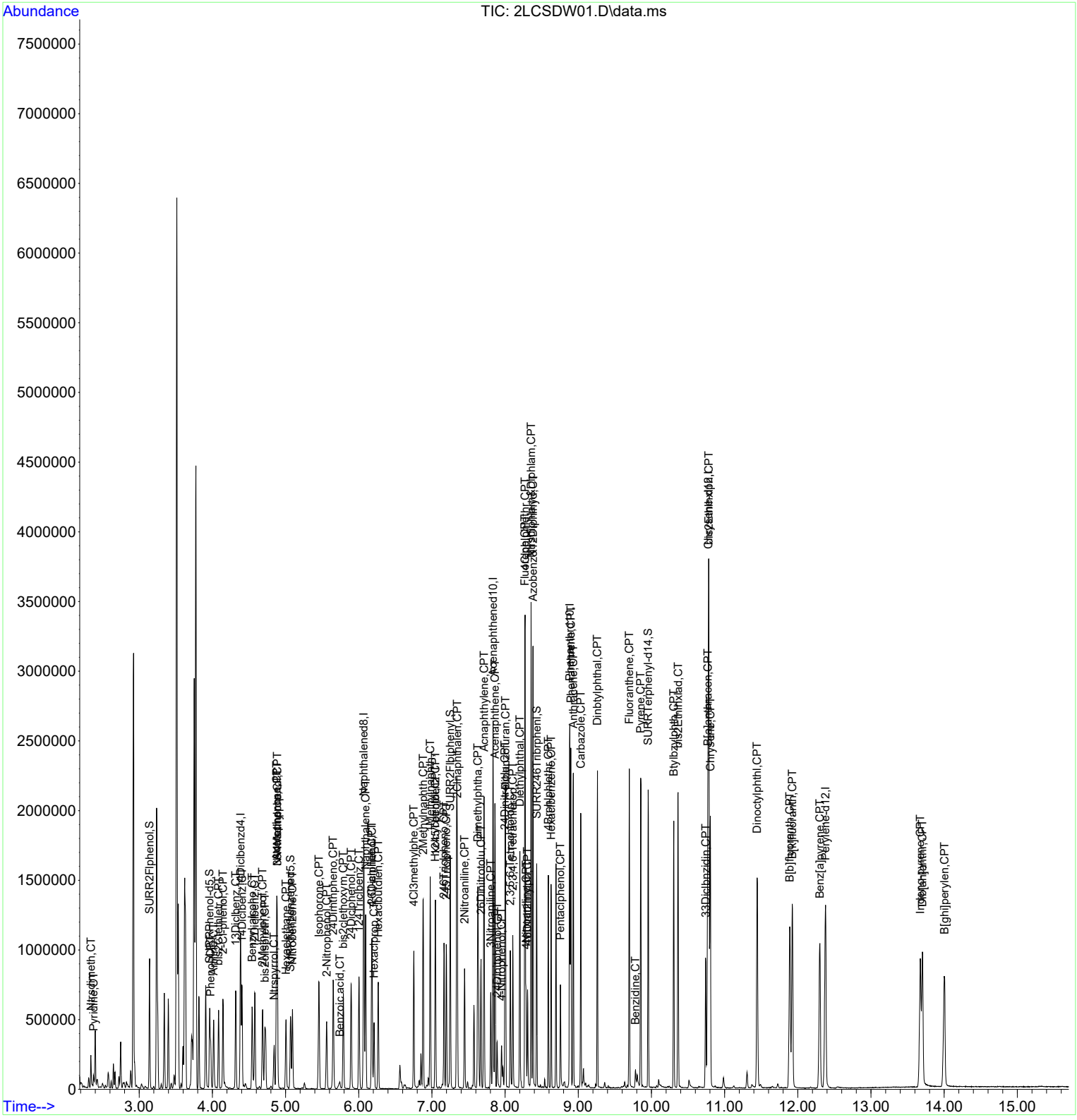
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.049 | 216 | 144322 | 13.6886 | ug/mL | 98 |
| 42) 246Triclpheno | 7.165 | 196 | 112469 | 15.8013 | ug/mL | 98 |
| 43) 245Triclpheno | 7.196 | 196 | 123959 | 16.3755 | ug/mL | 97 |
| 45) 2Clnaphthalen | 7.347 | 162 | 335462 | 14.4781 | ug/mL | 99 |
| 46) 2Nitroaniline | 7.446 | 65 | 115324 | 16.8062 | ug/mL | 98 |
| 47) Acnaphthylene | 7.714 | 152 | 558319 | 14.8942 | ug/mL | 99 |
| 48) Dimethylphtha | 7.628 | 163 | 462191 | 17.0491 | ug/mL | 100 |
| 49) 26Dinitrotolu | 7.671 | 165 | 104629 | 17.1043 | ug/mL | 98 |
| 50) Acenaphthene | 7.861 | 154 | 342047 | 15.4269 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.804 | 138 | 94074 | 15.7363 | ug/mL | 99 |
| 52) 24Dinitphenol | 7.893 | 184 | 40110 | 16.2220 | ug/mL | 97 |
| 53) Dibenzofuran | 8.006 | 168 | 513216 | 16.1255 | ug/mL | 100 |
| 54) 24Dinitrotolu | 7.998 | 165 | 143140 | 17.9348 | ug/mL | 95 |
| 55) 4-Nitrophenol | 7.952 | 65 | 37811 | 9.5137 | ug/mL | 96 |
| 56) 2,3,5,6-Tetrachlorop | 8.072 | 232 | 94131 | 17.0404 | ug/mL | 99 |
| 57) 2,3,4,6-Tetrachlorop | 8.106 | 232 | 100951 | 17.0801 | ug/mL | 98 |
| 58) Fluorene | 8.270 | 166 | 398137 | 16.6555 | ug/mL | 99 |
| 59) 4Clphlphlethr | 8.273 | 204 | 188355 | 16.7700 | ug/mL | 98 |
| 60) Diethylphthal | 8.202 | 149 | 471092 | 17.5987 | ug/mL | 100 |
| 61) 4Nitroaniline | 8.287 | 138 | 99541 | 18.6105 | ug/mL | 96 |
| 64) 46Dinit2mylph | 8.307 | 198 | 68026 | 16.8736 | ug/mL | 97 |
| 65) Ntrsdiphlam&Diphlam | 8.356 | 169 | 544319 | 30.9254 | ug/mL | 97 |
| 66) Azobenz&12Diphlhyd | 8.381 | 182 | 208721 | 33.2663 | ug/mL | 99 |
| 67) 4Brphlphlethr | 8.592 | 248 | 104072 | 16.4632 | ug/mL | 96 |
| 68) Hexaclbenzene | 8.628 | 284 | 116784 | 16.3751 | ug/mL | 98 |
| 69) Pentaclphenol | 8.756 | 266 | 54370 | 17.1847 | ug/mL | 98 |
| 70) Phenanthrene | 8.898 | 178 | 568140 | 17.3331 | ug/mL | 100 |
| 71) Anthracene | 8.932 | 178 | 583207 | 17.5339 | ug/mL | 99 |
| 72) Carbazole | 9.035 | 167 | 522484 | 18.9189 | ug/mL | 99 |
| 73) Dinbtylphthal | 9.262 | 149 | 767734 | 19.1318 | ug/mL | 100 |
| 74) Fluoranthene | 9.697 | 202 | 627355 | 18.0275 | ug/mL | 99 |
| 76) Benzidine | 9.782 | 184 | 36795 | 3.9770 | ug/mL | 99 |
| 77) Pyrene | 9.853 | 202 | 647755 | 17.4523 | ug/mL | 98 |
| 79) Btylbzylphth | 10.305 | 149 | 336398 | 17.8519 | ug/mL | 97 |
| 80) bis2Ethlhxlad | 10.365 | 129 | 313437 | 17.8239 | ug/mL | 100 |
| 81) 33Diclbnzidin | 10.743 | 252 | 166131 | 25.2996 | ug/mL | 98 |
| 82) B[a]anthracen | 10.771 | 228 | 602389 | 17.2980 | ug/mL | 99 |
| 83) Chrysene | 10.805 | 228 | 561797 | 17.1041 | ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.785 | 149 | 493965 | 18.0450 | ug/mL | 99 |
| 85) Dinoctylphthl | 11.444 | 149 | 838302 | 17.9760 | ug/mL | 99 |
| 87) B[b]fluoranth | 11.890 | 252 | 566139 | 17.5827 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.925 | 252 | 575772 | 17.7337 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.302 | 252 | 515841 | 17.2234 | ug/mL | 97 |
| 90) Indeno-pyrene | 13.675 | 276 | 591305 | 17.8573 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.703 | 278 | 489824 | 18.0348 | ug/mL | 99 |
| 92) B[ghi]perylen | 14.007 | 276 | 463171 | 17.8758 | ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S040825\2LCSDW01.D Vial: 13
Acq On : 8 Apr 2025 14:21 Operator: JJY
Sample : 290647,LCSDW, Inst : SVMS2
Misc : 1569379,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 08 14:37:45 2025

Quant Method : C:\INSTARCH\METHOD\2S040725.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 07 13:48:19 2025
Response via : Initial Calibration
DataAcq Meth:2S040725.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\2MBS01.D Vial: 20
Acq On : 10 Apr 2025 16:08 Operator: ALD
Sample : 290730,MBS, Inst : SVMS2
Misc : 1569380,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 16:25:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

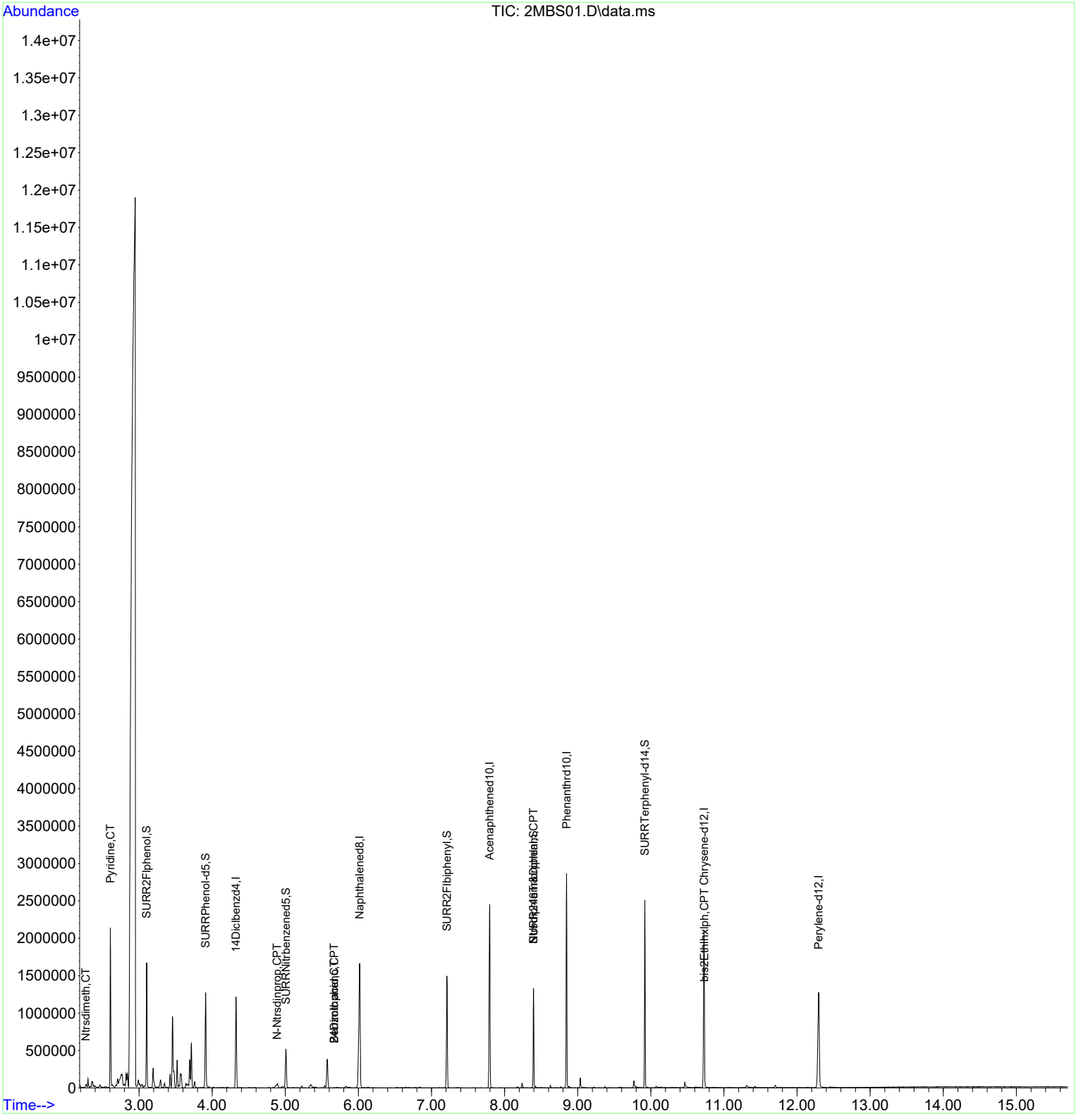
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.326 | 152 | 183185 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.017 | 136 | 870447 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.796 | 164 | 490247 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.847 | 188 | 716162 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.728 | 240 | 629004 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.294 | 264 | 624526 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.105 | 112 | 305924 | 69.36 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 69.36% | | | |
| 7) SURRPhenol-d5 | 3.912 | 99 | 389615 | 73.50 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 73.50% | | | |
| 22) SURRNitrbenzened5 | 5.008 | 82 | 165943 | 69.97 | %REC | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 69.97% | | | |
| 44) SURR2Flbiphenyl | 7.210 | 172 | 426798 | 72.97 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 72.97% | | | |
| 62) SURR246Tribrphenl | 8.395 | 330 | 93422 | 71.19 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 71.19% | | | |
| 78) SURRTerphenyl-d14 | 9.918 | 244 | 555687 | 90.60 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 90.60% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.269 | 74 | 816 | 0.1150 | ug/mL# | 1 |
| 3) Pyridine | 2.607 | 79 | 7097 | 0.5600 | ug/mL | 86 |
| 19) N-Ntrsdinprop | 4.886 | 70 | 1075 | 0.1310 | ug/mL# | 1 |
| 26) 24Dimthpheno | 5.668 | 122 | 1168 | 0.0998 | ug/mL# | 5 |
| 30) Benzoic acid | 5.668 | 122 | 1352 | 3.1186 | ug/mL# | 78 |
| 65) Ntrsdiphlam&Diphlam | 8.395 | 169 | 3470 | 0.1879 | ug/mL# | 31 |
| 84) bis2Ethlhxlph | 10.734 | 149 | 7183 | 0.2492 | ug/mL | 93 |

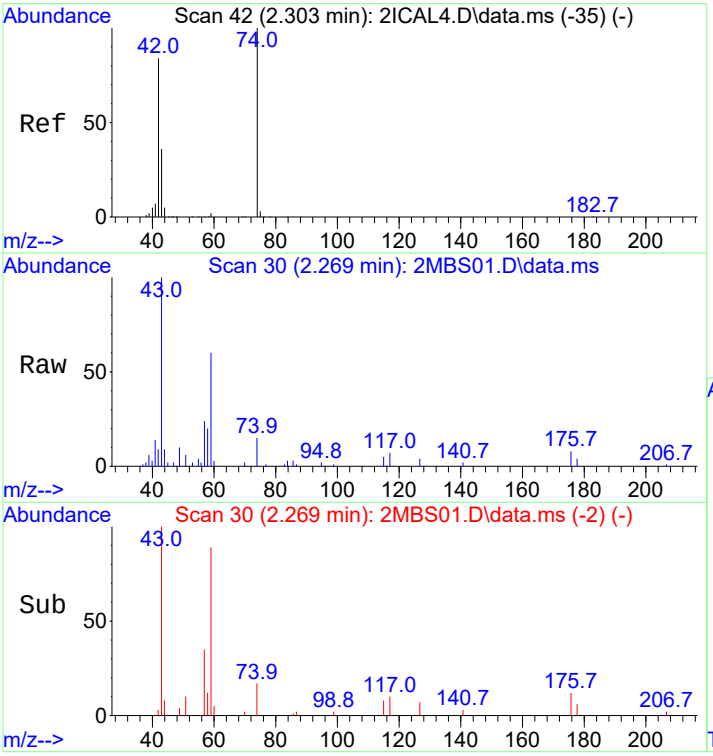
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\2MBS01.D Vial: 20
Acq On : 10 Apr 2025 16:08 Operator: ALD
Sample : 290730,MBS, Inst : SVMS2
Misc : 1569380,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 16:25:09 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

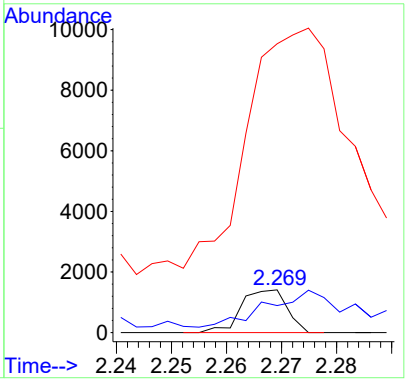


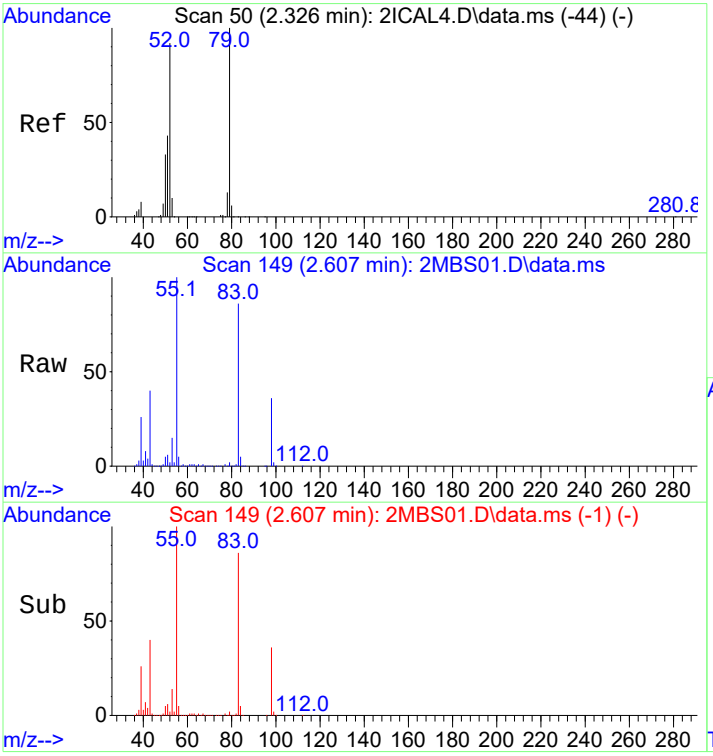



#2
Ntrsdimeth
Concen: 0.12 ug/mL
RT: 2.269 min Scan# 30
Delta R.T. -0.020 min
Lab File: 2MBS01.D
Acq: 10 Apr 2025 16:08

Tgt Ion: 74 Resp: 816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 48.7 | 53.9 | 113.9# |
| 43 | 524.9 | 6.0 | 66.0# |

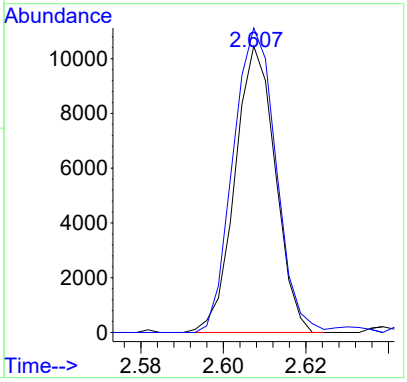


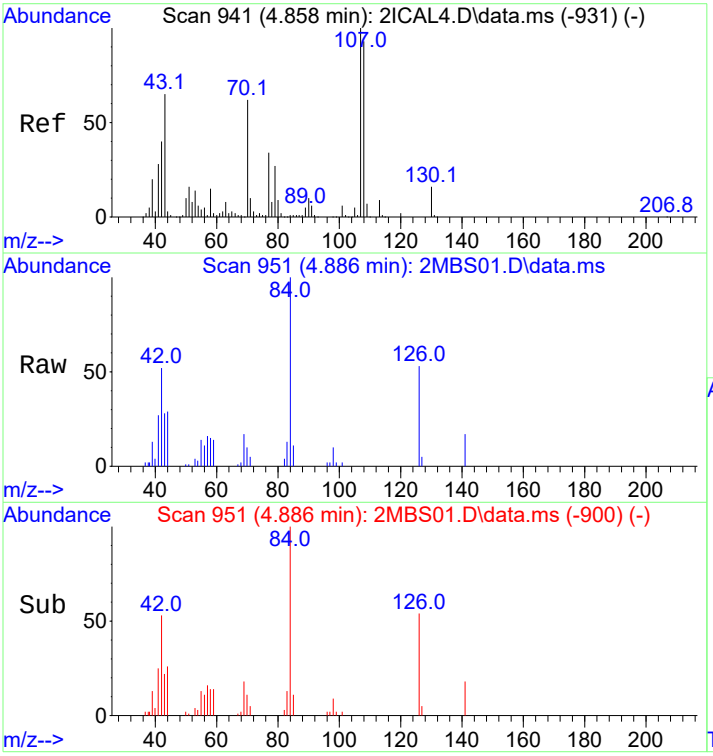




#3
Pyridine
Concen: 0.56 ug/mL
RT: 2.607 min Scan# 149
Delta R.T. 0.298 min
Lab File: 2MBS01.D
Acq: 10 Apr 2025 16:08

Tgt Ion: 79 Resp: 7097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 106.3 | 62.5 | 122.5 |

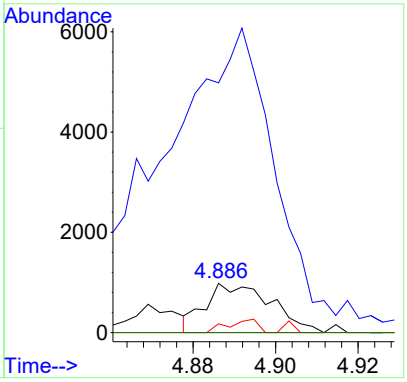


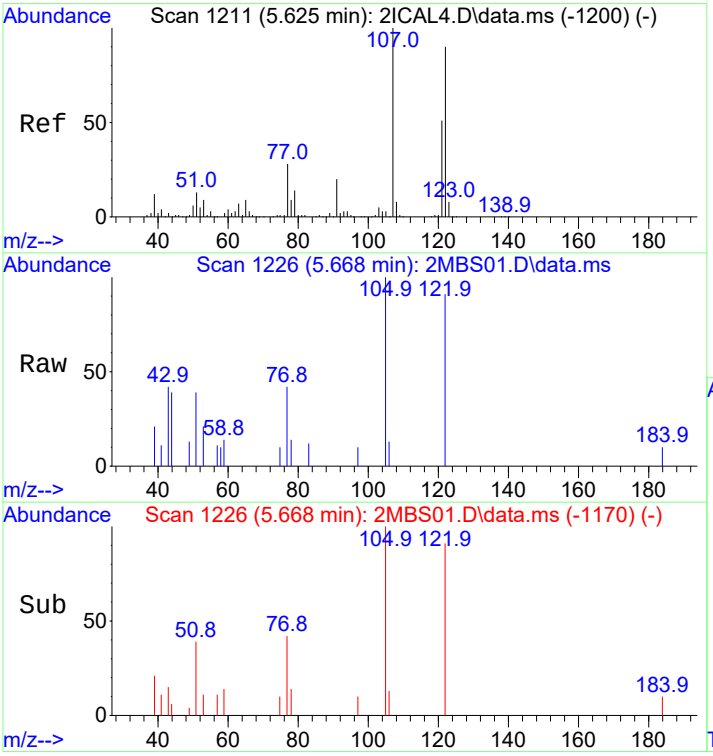



#19
N-Ntrsdinprop
Concen: 0.13 ug/mL
RT: 4.886 min Scan# 951
Delta R.T. 0.045 min
Lab File: 2MBS01.D
Acq: 10 Apr 2025 16:08

Tgt Ion: 70 Resp: 1075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 441.8 | 40.3 | 100.3# |
| 101 | 17.9 | 0.0 | 40.5 |
| 130 | 0.0 | 0.0 | 55.7 |

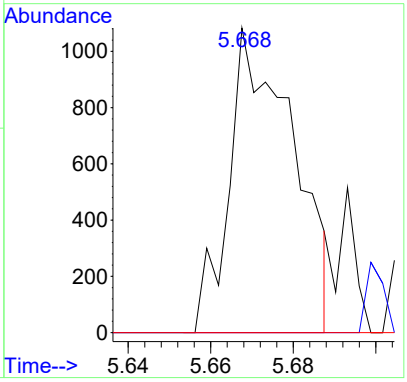


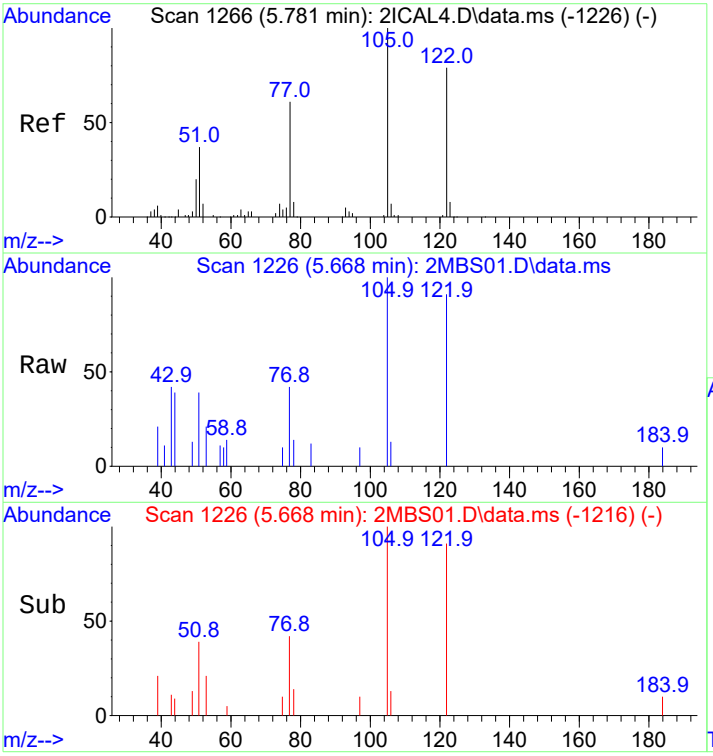




#26
24Dimthpheno
Concen: 0.10 ug/mL
RT: 5.668 min Scan# 1226
Delta R.T. 0.060 min
Lab File: 2MBS01.D
Acq: 10 Apr 2025 16:08

Tgt Ion:122 Resp: 1168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 121 | 0.0 | 26.8 | 86.8# |
| 107 | 0.0 | 80.8 | 140.8# |

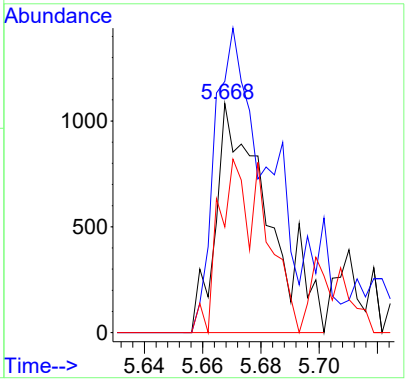


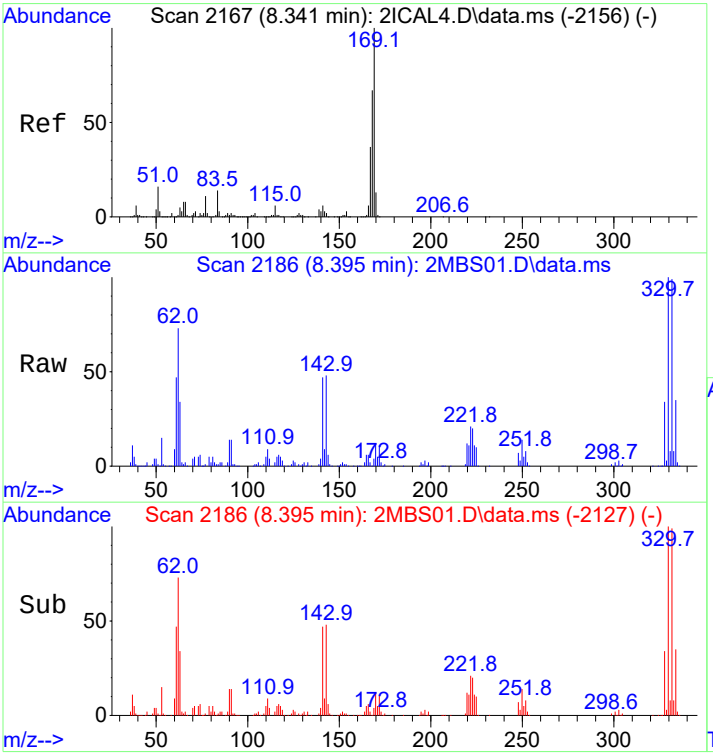



#30
Benzoic acid
Concen: 3.12 ug/mL
RT: 5.668 min Scan# 1226
Delta R.T. -0.102 min
Lab File: 2MBS01.D
Acq: 10 Apr 2025 16:08

Tgt Ion:122 Resp: 1352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 109.6 | 96.0 | 156.0 |
| 77 | 46.1 | 46.6 | 106.6# |

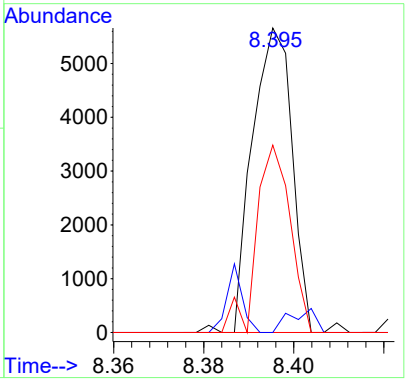


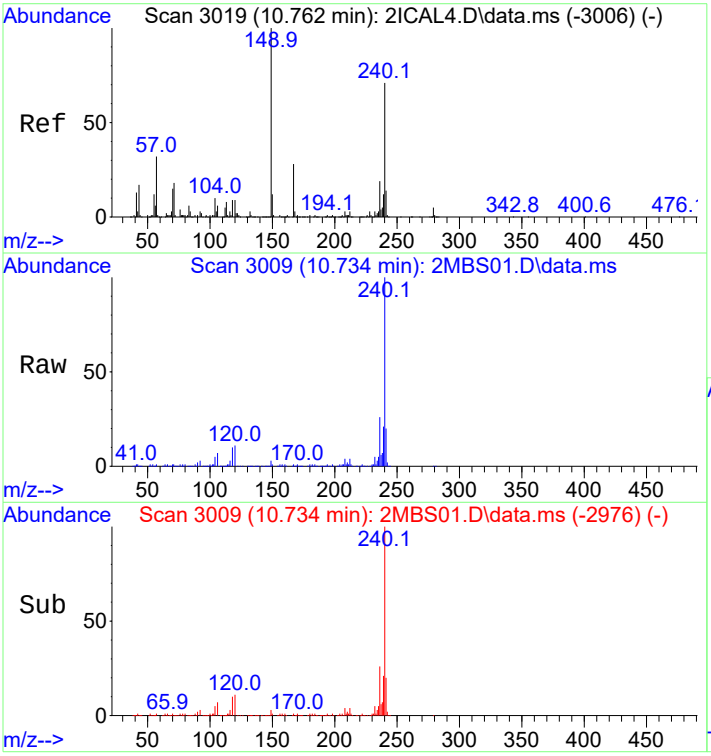




#65
Ntrsdiphlam&Diphlam
Concen: 0.19 ug/mL
RT: 8.395 min Scan# 2186
Delta R.T. 0.068 min
Lab File: 2MBS01.D
Acq: 10 Apr 2025 16:08

Tgt Ion:169 Resp: 3470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 0.0 | 37.2 | 97.2# |
| 167 | 61.5 | 6.9 | 66.9 |

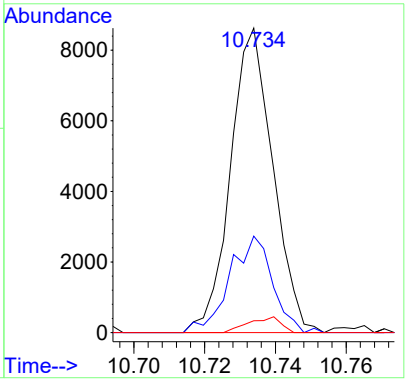





#84
bis2Ethlhxlph
Concen: 0.25 ug/mL
RT: 10.734 min Scan# 3009
Delta R.T. -0.006 min
Lab File: 2MBS01.D
Acq: 10 Apr 2025 16:08

Tgt Ion:149 Resp: 7183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 31.7 | 0.0 | 57.9 |
| 279 | 3.9 | 0.0 | 34.9 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\2LCSS01.D Vial: 21
Acq On : 10 Apr 2025 16:32 Operator: ALD
Sample : 290730,LCSS, Inst : SVMS2
Misc : 1569381,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 16:48:35 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.329 | 152 | 177686 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.020 | 136 | 860301 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 486601 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.850 | 188 | 717670 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.731 | 240 | 611448 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.299 | 264 | 628525 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.107 | 112 | 340439 | 79.58 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 79.58% | | | |
| 7) SURRPhenol-d5 | 3.914 | 99 | 425644 | 82.78 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 82.78% | | | |
| 22) SURRNitrbenzened5 | 5.014 | 82 | 182395 | 77.81 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 77.81% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 469298 | 80.84 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 80.84% | | | |
| 62) SURR246Tribrphenl | 8.401 | 330 | 121588 | 93.35 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 93.35% | | | |
| 78) SURRTerphenyl-d14 | 9.918 | 244 | 569020 | 95.44 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 95.44% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.306 | 74 | 98379 | 14.2994 | ug/mL | 92 |
| 3) Pyridine | 2.346 | 79 | 34227 | 2.7842 | ug/mL | 96 |
| 5) Aniline | 3.963 | 93 | 139736 | 8.5203 | ug/mL | 99 |
| 6) bis2Clethletr | 4.031 | 93 | 162821 | 15.0867 | ug/mL | 99 |
| 8) Phenol | 3.929 | 94 | 208003 | 15.7869 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.091 | 128 | 185810 | 15.6590 | ug/mL | 97 |
| 10) 13Diclbenz | 4.261 | 146 | 192182 | 14.8705 | ug/mL | 99 |
| 11) 14Diclbenz | 4.346 | 146 | 194397 | 14.6982 | ug/mL | 99 |
| 12) 12Diclbenz | 4.525 | 146 | 185611 | 14.8596 | ug/mL | 98 |
| 13) Benzyl alcoho | 4.491 | 108 | 120525 | 15.7762 | ug/mL | 99 |
| 14) bis2clispreth | 4.664 | 45 | 298845 | 14.6263 | ug/mL | 98 |
| 15) 2Methylphenol | 4.633 | 107 | 141836 | 15.4373 | ug/mL | 97 |
| 16) Ntrspyrrol | 4.792 | 100 | 87561 | 15.2649 | ug/mL | 97 |
| 17) Acetophenone | 4.821 | 105 | 258988 | 15.5845 | ug/mL | 97 |
| 18) Hexaclethane | 4.949 | 117 | 70306 | 13.9658 | ug/mL | 91 |
| 19) N-Ntrsdinprop | 4.832 | 70 | 119340 | 14.9880 | ug/mL | 98 |
| 20) 3&4Methylphenol | 4.835 | 107 | 189615 | 15.9216 | ug/mL | 96 |
| 23) Nitrobenzene | 5.037 | 77 | 171765 | 15.1652 | ug/mL | 98 |
| 24) Isophorone | 5.398 | 82 | 354205 | 14.8444 | ug/mL | 100 |
| 25) 2-Nitrophenol | 5.506 | 139 | 110994 | 14.7553 | ug/mL | 97 |
| 26) 24Dimthpheno | 5.602 | 122 | 152923 | 13.2263 | ug/mL | 95 |
| 27) bis2clethoxym | 5.741 | 93 | 230212 | 15.4845 | ug/mL | 96 |
| 28) 24Diclphenol | 5.849 | 162 | 175544 | 16.2227 | ug/mL | 98 |
| 29) 124Triclbenz | 5.955 | 180 | 178772 | 14.7757 | ug/mL | 99 |
| 30) Benzoic acid | 5.713 | 122 | 37700 | 8.1140 | ug/mL | 82 |
| 31) Naphthalene | 6.045 | 128 | 605303 | 15.2560 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.134 | 127 | 142922 | 9.2312 | ug/mL | 97 |
| 33) 26Diclphenol | 6.139 | 162 | 146549 | 13.7533 | ug/mL | 99 |
| 34) Hexaclprop | 6.162 | 213 | 54637 | 7.0283 | ug/mL | 98 |
| 35) Hexaclbutdien | 6.222 | 225 | 104912 | 14.8080 | ug/mL | 98 |
| 36) 4Cl3methylphe | 6.719 | 107 | 197075 | 18.0579 | ug/mL | 97 |
| 37) 2Methylnaphth | 6.841 | 142 | 376034 | 15.6813 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.938 | 142 | 390639 | 15.7515 | ug/mL | 100 |
| 40) Hxclcycpentdi | 7.003 | 237 | 3304 | 0.4380 | ug/mL | 96 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\2LCSS01.D Vial: 21
Acq On : 10 Apr 2025 16:32 Operator: ALD
Sample : 290730,LCSS, Inst : SVMS2
Misc : 1569381,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 16:48:35 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

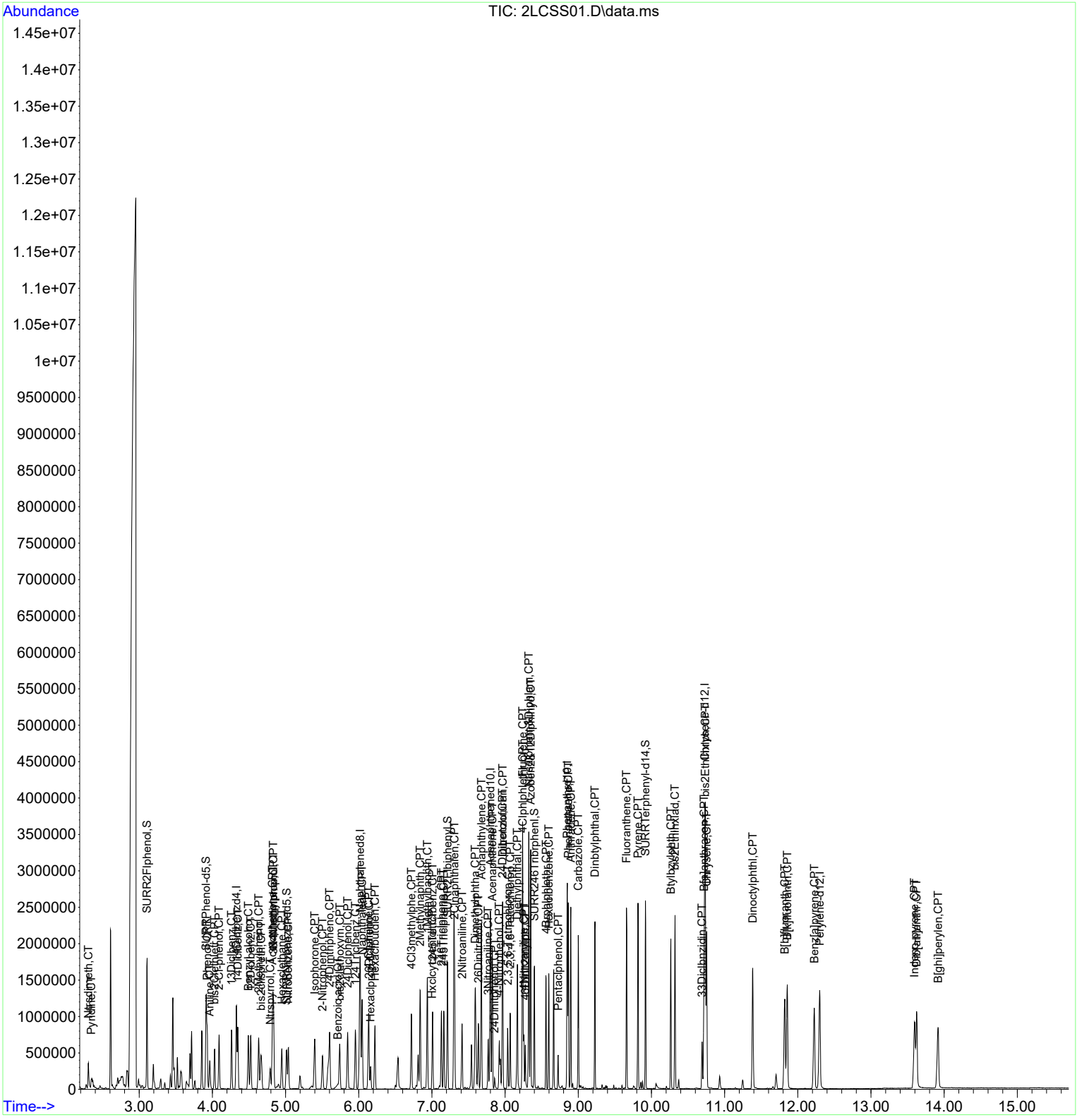
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.009 | 216 | 170214 | 15.3498 ug/mL | 98 |
| 42) 246Triclpheno | 7.131 | 196 | 125298 | 16.8351 ug/mL | 93 |
| 43) 245Triclpheno | 7.162 | 196 | 137218 | 16.9624 ug/mL | 95 |
| 45) 2Clnaphthalen | 7.310 | 162 | 381954 | 15.5243 ug/mL | 99 |
| 46) 2Nitroaniline | 7.412 | 65 | 132100 | 17.4006 ug/mL | 99 |
| 47) Acnaphthylene | 7.676 | 152 | 625152 | 15.8741 ug/mL | 99 |
| 48) Dimethylphtha | 7.591 | 163 | 515341 | 17.9155 ug/mL | 100 |
| 49) 26Dinitrotolu | 7.637 | 165 | 117209 | 17.9537 ug/mL | 89 |
| 50) Acenaphthene | 7.824 | 154 | 383705 | 16.3941 ug/mL | 98 |
| 51) 3Nitroaniline | 7.770 | 138 | 97966 | 14.1129 ug/mL | 99 |
| 52) 24Dinitphenol | 7.855 | 184 | 19971 | 11.0962 ug/mL | 95 |
| 53) Dibenzofuran | 7.966 | 168 | 575233 | 17.0192 ug/mL | 98 |
| 54) 24Dinitrotolu | 7.963 | 165 | 161454 | 18.8955 ug/mL | 95 |
| 55) 4-Nitrophenol | 7.921 | 65 | 85450 | 17.9117 ug/mL | 93 |
| 56) 2,3,5,6-Tetrachlorop | 8.037 | 232 | 87432 | 15.0577 ug/mL | 96 |
| 57) 2,3,4,6-Tetrachlorop | 8.069 | 232 | 103410 | 16.4398 ug/mL | 93 |
| 58) Fluorene | 8.239 | 166 | 450994 | 17.4549 ug/mL | 99 |
| 59) 4Clphlphlethr | 8.242 | 204 | 212990 | 17.5032 ug/mL | 98 |
| 60) Diethylphthal | 8.168 | 149 | 526831 | 18.4045 ug/mL | 100 |
| 61) 4Nitroaniline | 8.256 | 138 | 118766 | 19.2839 ug/mL | 97 |
| 64) 46Dinit2mylph | 8.276 | 198 | 60145 | 14.8298 ug/mL | 99 |
| 65) Ntrsdiphlam&Diphlam | 8.324 | 169 | 620140 | 33.5149 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.350 | 182 | 233470 | 35.3848 ug/mL | 91 |
| 67) 4Brphlphlethr | 8.560 | 248 | 119453 | 17.7271 ug/mL | 96 |
| 68) Hexaclbenzene | 8.597 | 284 | 134180 | 17.8039 ug/mL | 97 |
| 69) Pentaclphenol | 8.725 | 266 | 35698 | 13.3899 ug/mL | 92 |
| 70) Phenanthrene | 8.864 | 178 | 627721 | 17.9531 ug/mL | 99 |
| 71) Anthracene | 8.898 | 178 | 647119 | 18.1910 ug/mL | 99 |
| 72) Carbazole | 9.001 | 167 | 583085 | 19.2489 ug/mL | 99 |
| 73) Dinbtylphthal | 9.228 | 149 | 795051 | 18.7619 ug/mL | 99 |
| 74) Fluoranthene | 9.660 | 202 | 684170 | 18.5307 ug/mL | 99 |
| 76) Benzidine | 9.745 | 184 | 930 | Below Cal | 78 |
| 77) Pyrene | 9.816 | 202 | 710547 | 18.2951 ug/mL | 100 |
| 79) Btylbzylphth | 10.265 | 149 | 358383 | 18.6633 ug/mL | 96 |
| 80) bis2Ethlhxlad | 10.322 | 129 | 328712 | 18.6726 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.691 | 252 | 111358 | 12.7064 ug/mL | 97 |
| 82) B[a]anthracen | 10.720 | 228 | 668533 | 18.1604 ug/mL | 99 |
| 83) Chrysene | 10.754 | 228 | 619487 | 17.9432 ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.737 | 149 | 530027 | 18.9186 ug/mL | 99 |
| 85) Dinoctylphthl | 11.384 | 149 | 873645 | 18.1483 ug/mL | 99 |
| 87) B[b]fluoranth | 11.822 | 252 | 615803 | 18.4959 ug/mL | 99 |
| 88) B[k]fluoranth | 11.856 | 252 | 624574 | 18.7235 ug/mL | 99 |
| 89) Benz[a]pyrene | 12.226 | 252 | 556085 | 18.1616 ug/mL | 99 |
| 90) Indeno-pyrene | 13.595 | 276 | 616441 | 18.2026 ug/mL | 99 |
| 91) Dib[ah]anthr | 13.624 | 278 | 499859 | 18.0568 ug/mL | 99 |
| 92) B[ghi]perylen | 13.919 | 276 | 480704 | 18.1174 ug/mL | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\2LCSS01.D Vial: 21
Acq On : 10 Apr 2025 16:32 Operator: ALD
Sample : 290730,LCSS, Inst : SVMS2
Misc : 1569381,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 16:48:35 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568828S.D Vial: 25
Acq On : 10 Apr 2025 18:05 Operator: ALD
Sample : 290730,MSS1568828, Inst : SVMS2
Misc : 1569383,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 18:21:39 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.327 | 152 | 185238 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.020 | 136 | 905480 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.799 | 164 | 509397 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.850 | 188 | 740126 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.740 | 240 | 611518 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.308 | 264 | 507272 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.105 | 112 | 306348 | 68.69 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 68.69% | | | |
| 7) SURRPhenol-d5 | 3.917 | 99 | 405227 | 75.60 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 75.60% | | | |
| 22) SURRNitrbenzened5 | 5.011 | 82 | 173991 | 70.52 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 70.52% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 471684 | 77.61 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 77.61% | | | |
| 62) SURR246Tribrphenl | 8.401 | 330 | 111799 | 81.99 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 81.99% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 536368 | 89.95 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 89.95% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.306 | 74 | 84407 | 11.7684 | ug/mL | 96 |
| 3) Pyridine | 2.343 | 79 | 28631 | 2.2340 | ug/mL | 98 |
| 5) Aniline | 3.966 | 93 | 32590 | 1.9061 | ug/mL | 97 |
| 6) bis2Clethletr | 4.031 | 93 | 141325 | 12.5611 | ug/mL | 98 |
| 8) Phenol | 3.932 | 94 | 186891 | 13.6063 | ug/mL | 99 |
| 9) 2-Cl-phenol | 4.091 | 128 | 161306 | 13.0397 | ug/mL | 100 |
| 10) 13Diclbenz | 4.261 | 146 | 165054 | 12.2507 | ug/mL | 98 |
| 11) 14Diclbenz | 4.346 | 146 | 167437 | 12.1437 | ug/mL | 99 |
| 12) 12Diclbenz | 4.523 | 146 | 161197 | 12.3790 | ug/mL | 97 |
| 13) Benzyl alcoho | 4.491 | 108 | 109734 | 13.7781 | ug/mL | 99 |
| 14) bis2clispreth | 4.665 | 45 | 268507 | 12.6057 | ug/mL | 98 |
| 15) 2Methylphenol | 4.636 | 107 | 121343 | 12.6684 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.793 | 100 | 79983 | 13.3753 | ug/mL | 94 |
| 17) Acetophenone | 4.821 | 105 | 227292 | 13.1196 | ug/mL | 98 |
| 18) Hexaclethane | 4.949 | 117 | 63031 | 12.0102 | ug/mL | 93 |
| 19) N-Ntrsdinprop | 4.832 | 70 | 105114 | 12.6631 | ug/mL | 95 |
| 20) 3&4Methylphenol | 4.835 | 107 | 169629 | 13.6627 | ug/mL | 98 |
| 23) Nitrobenzene | 5.040 | 77 | 151693 | 12.7248 | ug/mL | 99 |
| 24) Isophorone | 5.401 | 82 | 323387 | 12.8766 | ug/mL | 98 |
| 25) 2-Nitrophenol | 5.506 | 139 | 104133 | 13.1525 | ug/mL | 99 |
| 26) 24Dimthpheno | 5.602 | 122 | 89297 | 7.3379 | ug/mL | 96 |
| 27) bis2clethoxym | 5.739 | 93 | 209824 | 13.4090 | ug/mL | 98 |
| 28) 24Diclphenol | 5.850 | 162 | 165282 | 14.5122 | ug/mL | 97 |
| 29) 124Triclbenz | 5.955 | 180 | 160623 | 12.6133 | ug/mL | 97 |
| 30) Benzoic acid | 5.733 | 122 | 71602 | 12.2694 | ug/mL | 94 |
| 31) Naphthalene | 6.046 | 128 | 575029 | 13.7699 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.134 | 127 | 56218 | 3.4499 | ug/mL | 98 |
| 33) 26Diclphenol | 6.137 | 162 | 130612 | 11.6461 | ug/mL | 98 |
| 34) Hexaclprop | 6.162 | 213 | 72225 | 8.8272 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.222 | 225 | 92192 | 12.3633 | ug/mL | 99 |
| 36) 4Cl3methylphe | 6.719 | 107 | 177120 | 15.4197 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.841 | 142 | 367663 | 14.5672 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.938 | 142 | 380605 | 14.5811 | ug/mL | 98 |
| 40) Hxclcycpentdi | 7.006 | 237 | 31419 | 3.9788 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568828S.D Vial: 25
Acq On : 10 Apr 2025 18:05 Operator: ALD
Sample : 290730,MSS1568828, Inst : SVMS2
Misc : 1569383,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 18:21:39 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

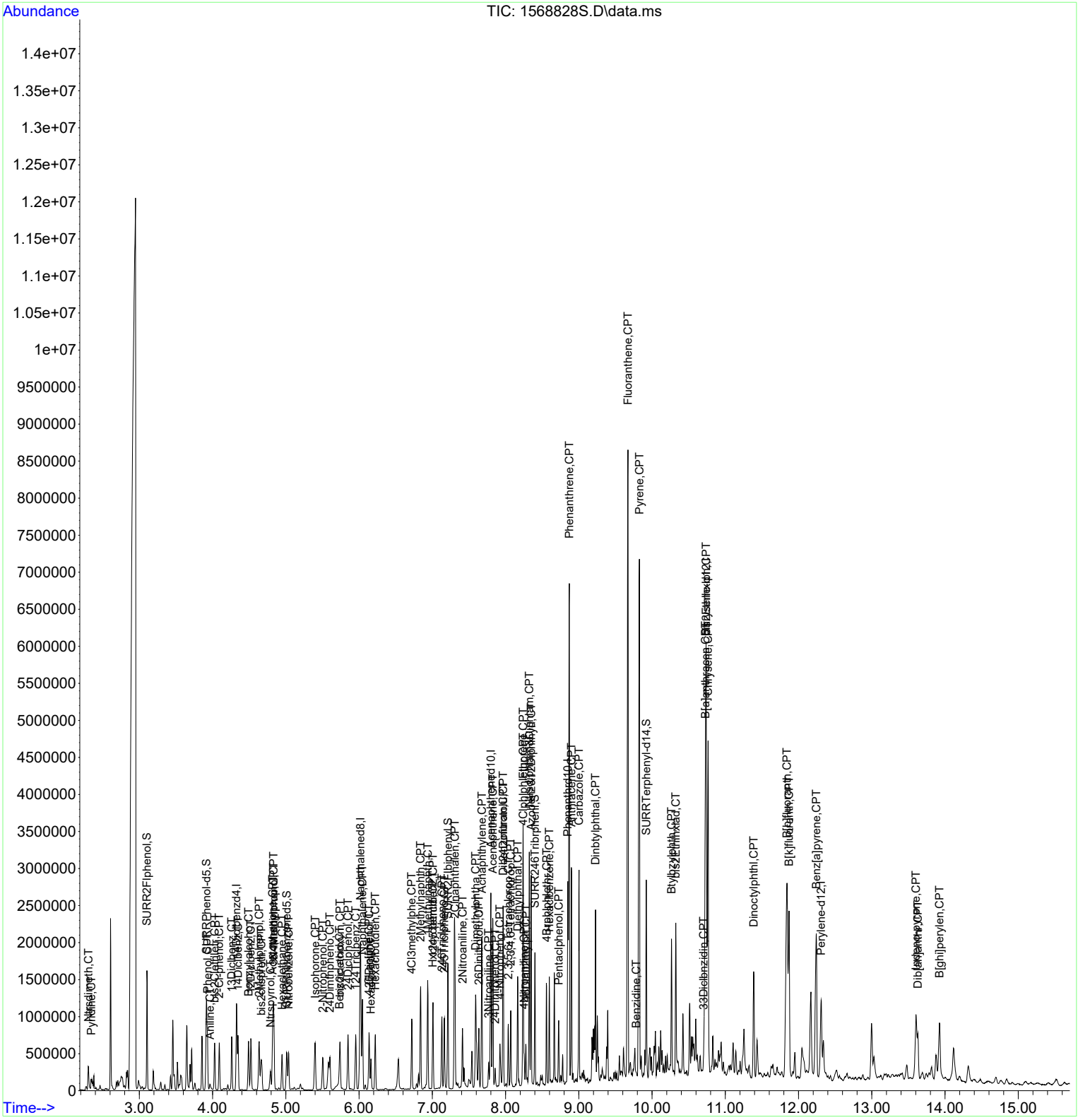
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.009 | 216 | 160838 | 13.8552 | ug/mL | 99 |
| 42) 246Triclpheno | 7.131 | 196 | 116776 | 14.9879 | ug/mL | 97 |
| 43) 245Triclpheno | 7.165 | 196 | 127320 | 15.0345 | ug/mL | 97 |
| 45) 2Clnaphthalen | 7.310 | 162 | 360318 | 13.9896 | ug/mL | 100 |
| 46) 2Nitroaniline | 7.412 | 65 | 119367 | 15.0866 | ug/mL | 96 |
| 47) Acnaphthylene | 7.677 | 152 | 595548 | 14.4457 | ug/mL | 100 |
| 48) Dimethylphtha | 7.591 | 163 | 446431 | 14.8253 | ug/mL | 99 |
| 49) 26Dinitrotolu | 7.637 | 165 | 101706 | 14.8818 | ug/mL | 86 |
| 50) Acenaphthene | 7.824 | 154 | 464225 | 18.9468 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.770 | 138 | 55284 | 7.7779 | ug/mL | 98 |
| 52) 24Dinitphenol | 7.858 | 184 | 29516 | 13.8315 | ug/mL | 92 |
| 53) Dibenzofuran | 7.969 | 168 | 584484 | 16.5191 | ug/mL | 96 |
| 54) 24Dinitrotolu | 7.966 | 165 | 138313 | 15.4629 | ug/mL | 100 |
| 55) 4-Nitrophenol | 7.924 | 65 | 80355 | 16.2106 | ug/mL | 98 |
| 56) 2,3,5,6-Tetrachlorop | 8.037 | 232 | 85988 | 14.2030 | ug/mL | 97 |
| 57) 2,3,4,6-Tetrachlorop | 8.072 | 232 | 96004 | 14.6209 | ug/mL | 96 |
| 58) Fluorene | 8.239 | 166 | 478471 | 17.6896 | ug/mL | 97 |
| 59) 4Clphlphlethr | 8.242 | 204 | 192199 | 15.0878 | ug/mL | 97 |
| 60) Diethylphthal | 8.165 | 149 | 454973 | 15.1829 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.253 | 138 | 71392 | 11.3253 | ug/mL | 98 |
| 64) 46Dinit2mylph | 8.279 | 198 | 55635 | 13.5459 | ug/mL | 98 |
| 65) Ntrsdiphlam&Diphlam | 8.324 | 169 | 529879 | 27.7680 | ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.350 | 182 | 224709 | 33.0236 | ug/mL# | 80 |
| 67) 4Brphlphlethr | 8.560 | 248 | 103691 | 14.9211 | ug/mL | 96 |
| 68) Hexaclbenzene | 8.597 | 284 | 115803 | 14.8994 | ug/mL | 95 |
| 69) Pentaclphenol | 8.728 | 266 | 45927 | 15.7625 | ug/mL | 99 |
| 70) Phenanthrene | 8.870 | 178 | 1918064 | 53.1930 | ug/mL | 98 |
| 71) Anthracene | 8.901 | 178 | 802755 | 21.8813 | ug/mL | 99 |
| 72) Carbazole | 9.004 | 167 | 756800 | 24.2256 | ug/mL | 100 |
| 73) Dinbtylphthal | 9.228 | 149 | 698853 | 15.9914 | ug/mL | 99 |
| 74) Fluoranthene | 9.671 | 202 | 2905928 | 76.3187 | ug/mL | 96 |
| 76) Benzidine | 9.785 | 184 | 2108 | 0.0374 | ug/mL | 97 |
| 77) Pyrene | 9.828 | 202 | 2455903 | 63.2272 | ug/mL | 97 |
| 79) Btylbzylphth | 10.265 | 149 | 326041 | 16.9771 | ug/mL | 97 |
| 80) bis2Ethlhxlad | 10.325 | 129 | 289408 | 16.4381 | ug/mL | 100 |
| 81) 33Diclbnzidin | 10.703 | 252 | 9172 | 0.9050 | ug/mL | 88 |
| 82) B[a]anthracen | 10.728 | 228 | 1573336 | 42.7340 | ug/mL | 98 |
| 83) Chrysene | 10.765 | 228 | 1512713 | 43.8102 | ug/mL | 98 |
| 84) bis2Ethlhxlph | 10.740 | 149 | 458857 | 16.3764 | ug/mL | 99 |
| 85) Dinoctylphthl | 11.388 | 149 | 766789 | 16.0175 | ug/mL | 100 |
| 87) B[b]fluoranth | 11.842 | 252 | 1703753 | 63.4047 | ug/mL | 98 |
| 88) B[k]fluoranth | 11.871 | 252 | 882284 | 32.7712 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.243 | 252 | 1059110 | 42.8585 | ug/mL | 98 |
| 90) Indeno-pyrene | 13.604 | 276 | 542129 | 19.8348 | ug/mL | 98 |
| 91) Dib[ah]anthr | 13.629 | 278 | 257160 | 11.5101 | ug/mL | 98 |
| 92) B[ghi]perylen | 13.925 | 276 | 397556 | 18.5651 | ug/mL | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568828S.D Vial: 25
Acq On : 10 Apr 2025 18:05 Operator: ALD
Sample : 290730,MSS1568828, Inst : SVMS2
Misc : 1569383,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 18:21:39 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568828D.D Vial: 26
Acq On : 10 Apr 2025 18:28 Operator: ALD
Sample : 290730,MSDS1568828, Inst : SVMS2
Misc : 1569384,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 18:44:51 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.329 | 152 | 177902 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.020 | 136 | 866654 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.801 | 164 | 486887 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.853 | 188 | 711273 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.745 | 240 | 572715 | 20.00 | ug/mL | 0.01 |
| 86) Perylene-d12 | 12.311 | 264 | 487264 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.107 | 112 | 346185 | 80.82 | %REC | 0.02 |
| Spiked Amount 100.000 | | | Recovery = 80.82% | | | |
| 7) SURRPhenol-d5 | 3.917 | 99 | 438175 | 85.11 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 85.11% | | | |
| 22) SURRNitrbenzened5 | 5.014 | 82 | 196904 | 83.38 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 83.38% | | | |
| 44) SURR2Flbiphenyl | 7.213 | 172 | 498882 | 85.89 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 85.89% | | | |
| 62) SURR246Tribrphenl | 8.401 | 330 | 124505 | 95.53 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 95.53% | | | |
| 78) SURRTerphenyl-d14 | 9.921 | 244 | 573907 | 102.77 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 102.77% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.306 | 74 | 97373 | 14.1360 | ug/mL | 94 |
| 3) Pyridine | 2.343 | 79 | 31369 | 2.5486 | ug/mL | 99 |
| 5) Aniline | 3.965 | 93 | 25618 | 1.5602 | ug/mL | 98 |
| 6) bis2Clethletr | 4.031 | 93 | 160957 | 14.8959 | ug/mL | 99 |
| 8) Phenol | 3.931 | 94 | 207012 | 15.6927 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.093 | 128 | 181024 | 15.2371 | ug/mL | 97 |
| 10) 13Diclbenz | 4.264 | 146 | 191969 | 14.8360 | ug/mL | 99 |
| 11) 14Diclbenz | 4.349 | 146 | 191851 | 14.4881 | ug/mL | 99 |
| 12) 12Diclbenz | 4.525 | 146 | 185947 | 14.8685 | ug/mL | 98 |
| 13) Benzyl alcoho | 4.491 | 108 | 121154 | 15.8393 | ug/mL | 99 |
| 14) bis2clispreth | 4.667 | 45 | 311394 | 15.2220 | ug/mL | 99 |
| 15) 2Methylphenol | 4.636 | 107 | 129331 | 14.0591 | ug/mL | 97 |
| 16) Ntrspyrrol | 4.792 | 100 | 88349 | 15.3836 | ug/mL | 99 |
| 17) Acetophenone | 4.824 | 105 | 256728 | 15.4298 | ug/mL | 96 |
| 18) Hexaclethane | 4.949 | 117 | 71873 | 14.2598 | ug/mL | 97 |
| 19) N-Ntrsdinprop | 4.832 | 70 | 118806 | 14.9028 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.838 | 107 | 183013 | 15.3486 | ug/mL | 94 |
| 23) Nitrobenzene | 5.040 | 77 | 173519 | 15.2078 | ug/mL | 96 |
| 24) Isophorone | 5.400 | 82 | 355302 | 14.7812 | ug/mL | 99 |
| 25) 2-Nitrophenol | 5.506 | 139 | 115799 | 15.2812 | ug/mL | 98 |
| 26) 24Dimthpheno | 5.605 | 122 | 109274 | 9.3818 | ug/mL | 98 |
| 27) bis2clethoxym | 5.741 | 93 | 226080 | 15.0951 | ug/mL | 96 |
| 28) 24Diclphenol | 5.849 | 162 | 178699 | 16.3932 | ug/mL | 98 |
| 29) 124Triclbenz | 5.957 | 180 | 180252 | 14.7889 | ug/mL | 99 |
| 30) Benzoic acid | 5.739 | 122 | 81738 | 14.0623 | ug/mL | 84 |
| 31) Naphthalene | 6.048 | 128 | 673232 | 16.8437 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.133 | 127 | 51787 | 3.3204 | ug/mL | 96 |
| 33) 26Diclphenol | 6.139 | 162 | 144714 | 13.4816 | ug/mL | 99 |
| 34) Hexaclprop | 6.162 | 213 | 86387 | 11.0310 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.222 | 225 | 104921 | 14.7007 | ug/mL | 96 |
| 36) 4Cl3methylphe | 6.722 | 107 | 192279 | 17.4893 | ug/mL | 93 |
| 37) 2Methylnaphth | 6.841 | 142 | 399184 | 16.5247 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.938 | 142 | 414724 | 16.6001 | ug/mL | 100 |
| 40) Hxclcycpentdi | 7.006 | 237 | 40388 | 5.3511 | ug/mL | 96 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568828D.D Vial: 26
Acq On : 10 Apr 2025 18:28 Operator: ALD
Sample : 290730,MSDS1568828, Inst : SVMS2
Misc : 1569384,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 18:44:51 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

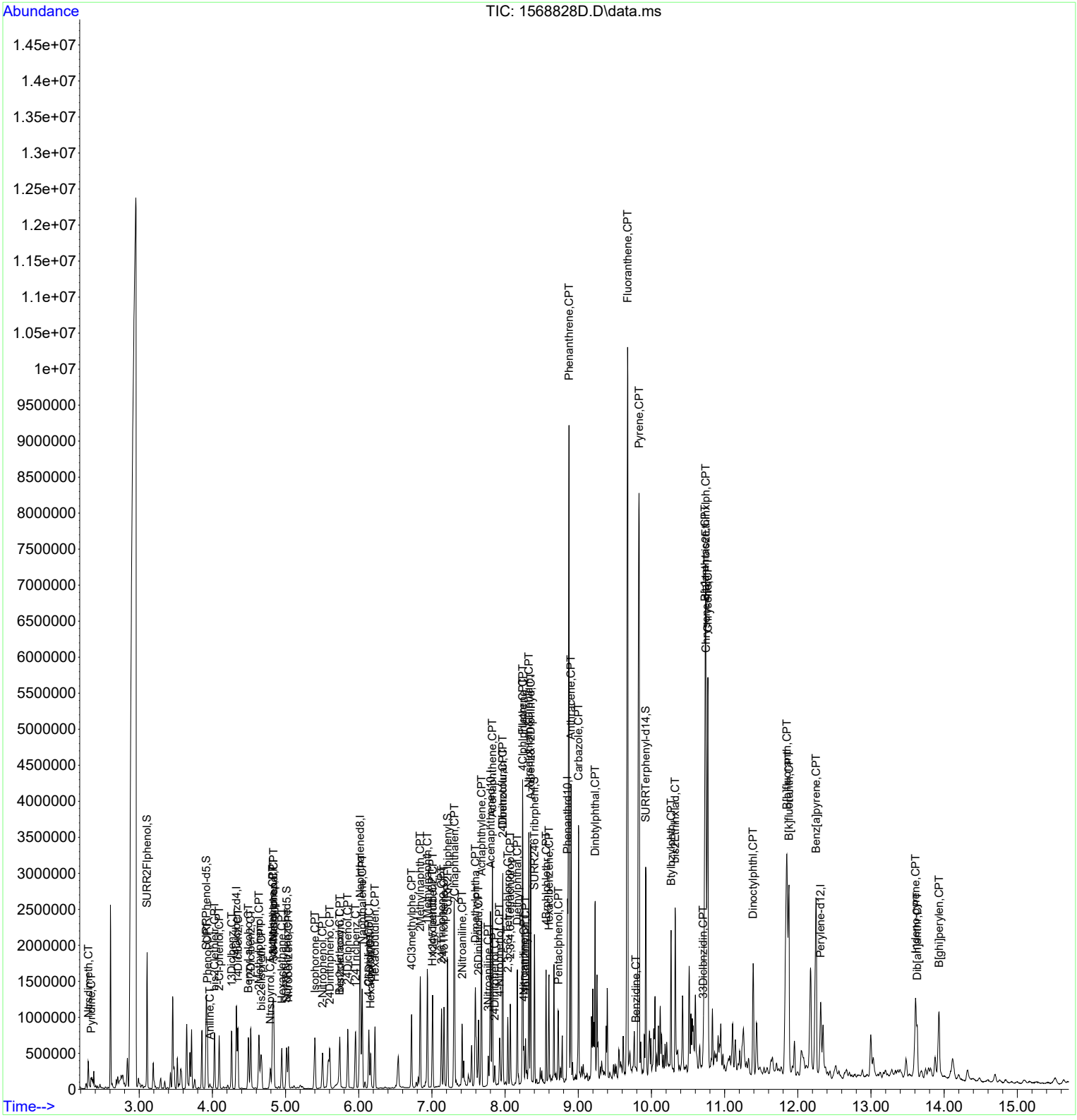
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.011 | 216 | 176499 | 15.9072 ug/mL | 99 |
| 42) 246Triclpheno | 7.131 | 196 | 127393 | 17.1065 ug/mL | 97 |
| 43) 245Triclpheno | 7.165 | 196 | 140213 | 17.3224 ug/mL | 97 |
| 45) 2Clnaphthalen | 7.310 | 162 | 387959 | 15.7591 ug/mL | 99 |
| 46) 2Nitroaniline | 7.412 | 65 | 134353 | 17.6784 ug/mL | 99 |
| 47) Acnaphthylene | 7.676 | 152 | 644704 | 16.3610 ug/mL | 100 |
| 48) Dimethylphtha | 7.594 | 163 | 492749 | 17.1200 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.637 | 165 | 114391 | 17.5117 ug/mL | 98 |
| 50) Acenaphthene | 7.827 | 154 | 593476 | 25.3418 ug/mL | 99 |
| 51) 3Nitroaniline | 7.770 | 138 | 66452 | 9.6969 ug/mL | 99 |
| 52) 24Dinitphenol | 7.858 | 184 | 31366 | 14.8589 ug/mL | 96 |
| 53) Dibenzofuran | 7.969 | 168 | 694022 | 20.5218 ug/mL | 98 |
| 54) 24Dinitrotolu | 7.966 | 165 | 152965 | 17.8915 ug/mL | 98 |
| 55) 4-Nitrophenol | 7.924 | 65 | 90198 | 18.8313 ug/mL | 98 |
| 56) 2,3,5,6-Tetrachlorop | 8.037 | 232 | 96002 | 16.4265 ug/mL | 96 |
| 57) 2,3,4,6-Tetrachlorop | 8.071 | 232 | 107987 | 17.1410 ug/mL | 94 |
| 58) Fluorene | 8.239 | 166 | 595648 | 23.0399 ug/mL | 98 |
| 59) 4Clphlphlethr | 8.242 | 204 | 207984 | 17.0817 ug/mL | 97 |
| 60) Diethylphthal | 8.168 | 149 | 501624 | 17.5136 ug/mL | 99 |
| 61) 4Nitroaniline | 8.256 | 138 | 86777 | 14.2605 ug/mL | 97 |
| 64) 46Dinit2mylph | 8.279 | 198 | 59069 | 14.7169 ug/mL | 98 |
| 65) Ntrsdiphlam&Diphlam | 8.324 | 169 | 580850 | 31.6738 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.350 | 182 | 253828 | 38.8162 ug/mL# | 81 |
| 67) 4Brphlphlethr | 8.560 | 248 | 116648 | 17.4665 ug/mL | 95 |
| 68) Hexaclbenzene | 8.600 | 284 | 127031 | 17.0070 ug/mL | 96 |
| 69) Pentaclphenol | 8.731 | 266 | 52055 | 17.8674 ug/mL | 99 |
| 70) Phenanthrene | 8.873 | 178 | 2804381 | 80.9279 ug/mL | 94 |
| 71) Anthracene | 8.901 | 178 | 1089095 | 30.8906 ug/mL | 99 |
| 72) Carbazole | 9.003 | 167 | 998627 | 33.2633 ug/mL | 99 |
| 73) Dinbtylphthal | 9.231 | 149 | 764960 | 18.2142 ug/mL | 99 |
| 74) Fluoranthene | 9.674 | 202 | 3897227 | 106.5053 ug/mL | 95 |
| 76) Benzidine | 9.788 | 184 | 2379 | 0.1040 ug/mL | 82 |
| 77) Pyrene | 9.830 | 202 | 3245167 | 89.2074 ug/mL | 96 |
| 79) Btylbzylphth | 10.268 | 149 | 341536 | 18.9888 ug/mL | 98 |
| 80) bis2Ethlhxlad | 10.325 | 129 | 312640 | 18.9607 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.705 | 252 | 20192 | 2.4551 ug/mL | 92 |
| 82) B[a]anthracen | 10.734 | 228 | 2080191 | 60.3290 ug/mL | 96 |
| 83) Chrysene | 10.771 | 228 | 2009457 | 62.1396 ug/mL | 96 |
| 84) bis2Ethlhxlph | 10.742 | 149 | 492786 | 18.7789 ug/mL | 99 |
| 85) Dinoctylphthl | 11.390 | 149 | 838851 | 18.5837 ug/mL | 99 |
| 87) B[b]fluoranth | 11.850 | 252 | 2259812 | 87.5515 ug/mL | 98 |
| 88) B[k]fluoranth | 11.879 | 252 | 980362 | 37.9094 ug/mL | 98 |
| 89) Benz[a]pyrene | 12.248 | 252 | 1335216 | 56.2502 ug/mL | 99 |
| 90) Indeno-pyrene | 13.609 | 276 | 652338 | 24.8470 ug/mL | 99 |
| 91) Dib[ah]anthr | 13.632 | 278 | 295259 | 13.7580 ug/mL | 99 |
| 92) B[ghi]perylen | 13.930 | 276 | 472997 | 22.9950 ug/mL | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041025\1568828D.D Vial: 26
Acq On : 10 Apr 2025 18:28 Operator: ALD
Sample : 290730,MSDS1568828, Inst : SVMS2
Misc : 1569384,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 10 18:44:51 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Thu Apr 10 14:58:44 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568828Y.D Vial: 6
Acq On : 11 Apr 2025 12:59 Operator: JJY
Sample : 290730,MSS1568828,5 Inst : SVMS2
Misc : 1569383,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:12 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 154055 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 718661 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.782 | 164 | 403539 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.833 | 188 | 589744 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.708 | 240 | 530522 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.268 | 264 | 555179 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.082 | 112 | 55488 | 14.96 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 14.96% | | | |
| 7) SURRPhenol-d5 | 3.895 | 99 | 70930 | 15.91 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 15.91% | | | |
| 22) SURRNitrbenzened5 | 4.989 | 82 | 31808 | 16.24 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 16.24% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 91745 | 19.06 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 19.06% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 21505 | 19.91 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 19.91% | | | |
| 78) SURRTerphenyl-d14 | 9.901 | 244 | 105772 | 20.45 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 20.45% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.289 | 74 | 14846 | 2.4889 | ug/mL | 93 |
| 3) Pyridine | 2.329 | 79 | 5704 | 0.5352 | ug/mL | 94 |
| 5) Aniline | 3.946 | 93 | 4604 | 0.3238 | ug/mL# | 41 |
| 6) bis2Clethletr | 4.011 | 93 | 25849 | 2.7625 | ug/mL | 99 |
| 8) Phenol | 3.906 | 94 | 31874 | 2.7902 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.071 | 128 | 28767 | 2.7962 | ug/mL | 95 |
| 10) 13Diclbenz | 4.244 | 146 | 31359 | 2.7987 | ug/mL | 94 |
| 11) 14Diclbenz | 4.329 | 146 | 31406 | 2.7388 | ug/mL | 95 |
| 12) 12Diclbenz | 4.503 | 146 | 30033 | 2.7732 | ug/mL | 94 |
| 13) Benzyl alcoho | 4.469 | 108 | 18053 | 2.7255 | ug/mL | 97 |
| 14) bis2clispreth | 4.645 | 45 | 49114 | 2.7725 | ug/mL | 95 |
| 15) 2Methylphenol | 4.611 | 107 | 21658 | 2.7188 | ug/mL | 98 |
| 16) Ntrspyrrol | 4.761 | 100 | 14353 | 2.8860 | ug/mL | 93 |
| 17) Acetophenone | 4.798 | 105 | 41536 | 2.8828 | ug/mL | 95 |
| 18) Hexaclethane | 4.926 | 117 | 11296 | 2.5881 | ug/mL | 98 |
| 19) N-Ntrsdinprop | 4.807 | 70 | 19138 | 2.7722 | ug/mL | 97 |
| 20) 3&4Methylphenol | 4.812 | 107 | 30449 | 2.9489 | ug/mL | 98 |
| 23) Nitrobenzene | 5.014 | 77 | 28160 | 2.9763 | ug/mL | 96 |
| 24) Isophorone | 5.372 | 82 | 58836 | 2.9517 | ug/mL | 100 |
| 25) 2-Nitrophenol | 5.480 | 139 | 18588 | 2.9581 | ug/mL | 93 |
| 26) 24Dimthpheno | 5.580 | 122 | 14161 | 1.4662 | ug/mL | 96 |
| 27) bis2clethoxym | 5.719 | 93 | 37143 | 2.9907 | ug/mL | 96 |
| 28) 24Diclphenol | 5.827 | 162 | 30613 | 3.3866 | ug/mL | 95 |
| 29) 124Triclbenz | 5.935 | 180 | 31170 | 3.0840 | ug/mL | 98 |
| 30) Benzoic acid | 5.665 | 122 | 13001 | 5.0748 | ug/mL# | 81 |
| 31) Naphthalene | 6.026 | 128 | 109692 | 3.3096 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.114 | 127 | 9387 | 0.7258 | ug/mL | 97 |
| 33) 26Diclphenol | 6.117 | 162 | 23176 | 2.6037 | ug/mL | 92 |
| 34) Hexaclprop | 6.145 | 213 | 15099 | 2.3251 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.205 | 225 | 17872 | 3.0197 | ug/mL | 96 |
| 36) 4Cl3methylphe | 6.699 | 107 | 32781 | 3.5957 | ug/mL | 94 |
| 37) 2Methylnaphth | 6.824 | 142 | 71089 | 3.5488 | ug/mL | 100 |
| 38) 1Methylnaphth | 6.921 | 142 | 72541 | 3.5015 | ug/mL | 99 |
| 40) Hxclcycpentdi | 6.989 | 237 | 7058 | 1.1283 | ug/mL | 88 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568828Y.D Vial: 6
Acq On : 11 Apr 2025 12:59 Operator: JJY
Sample : 290730,MSS1568828,5 Inst : SVMS2
Misc : 1569383,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:12 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

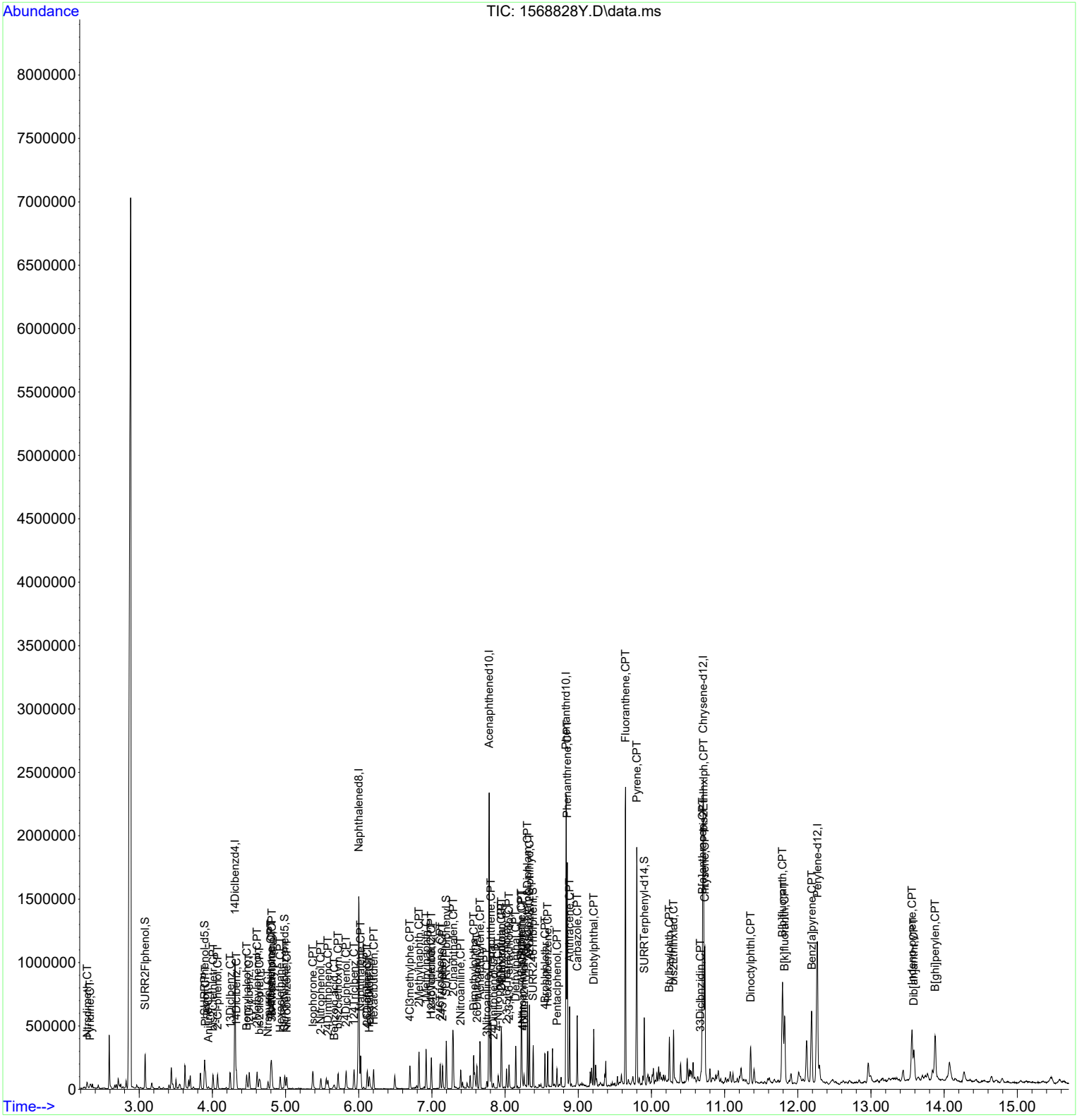
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 6.995 | 216 | 31129 | 3.3850 | ug/mL | 99 |
| 42) 246Triclpheno | 7.114 | 196 | 21302 | 3.4513 | ug/mL | 99 |
| 43) 245Triclpheno | 7.145 | 196 | 23630 | 3.5223 | ug/mL | 99 |
| 45) 2Clnaphthalen | 7.293 | 162 | 70113 | 3.4363 | ug/mL | 97 |
| 46) 2Nitroaniline | 7.392 | 65 | 20593 | 3.5314 | ug/mL | 95 |
| 47) Acnaphthylene | 7.659 | 152 | 115479 | 3.5359 | ug/mL | 97 |
| 48) Dimethylphtha | 7.571 | 163 | 85166 | 3.5702 | ug/mL | 98 |
| 49) 26Dinitrotolu | 7.617 | 165 | 18594 | 3.4344 | ug/mL | 98 |
| 50) Acenaphthene | 7.807 | 154 | 87966 | 4.5320 | ug/mL | 97 |
| 51) 3Nitroaniline | 7.753 | 138 | 8742 | 1.7539 | ug/mL | 91 |
| 52) 24Dinitphenol | 7.844 | 184 | 3770 | 5.7286 | ug/mL | 87 |
| 53) Dibenzofuran | 7.952 | 168 | 114709 | 4.0924 | ug/mL | 96 |
| 54) 24Dinitrotolu | 7.946 | 165 | 25901 | 3.6552 | ug/mL | 96 |
| 55) 4-Nitrophenol | 7.907 | 65 | 13677 | 4.4620 | ug/mL | 98 |
| 56) 2,3,5,6-Tetrachlorop | 8.020 | 232 | 15653 | 3.7519 | ug/mL | 82 |
| 57) 2,3,4,6-Tetrachlorop | 8.054 | 232 | 17841 | 3.6839 | ug/mL | 91 |
| 58) Fluorene | 8.222 | 166 | 94736 | 4.4213 | ug/mL | 95 |
| 59) 4Clphlphlethr | 8.228 | 204 | 37293 | 3.6955 | ug/mL | 95 |
| 60) Diethylphthal | 8.145 | 149 | 88421 | 3.7247 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.236 | 138 | 13201 | 2.9188 | ug/mL | 94 |
| 64) 46Dinit2mylph | 8.259 | 198 | 9771 | 4.8725 | ug/mL | 96 |
| 65) Ntrsdiphlam&Diphlam | 8.307 | 169 | 104942 | 6.9017 | ug/mL | 98 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 44246 | 8.1606 | ug/mL# | 81 |
| 67) 4Brphlphlethr | 8.546 | 248 | 20160 | 3.6408 | ug/mL | 93 |
| 68) Hexaclbenzene | 8.583 | 284 | 22486 | 3.6308 | ug/mL | 98 |
| 69) Pentaclphenol | 8.711 | 266 | 6664 | 5.6436 | ug/mL | 93 |
| 70) Phenanthrene | 8.850 | 178 | 423810 | 14.7504 | ug/mL | 98 |
| 71) Anthracene | 8.881 | 178 | 160854 | 5.5026 | ug/mL | 99 |
| 72) Carbazole | 8.986 | 167 | 151410 | 6.0826 | ug/mL | 98 |
| 73) Dinbtylphthal | 9.211 | 149 | 134727 | 3.8690 | ug/mL | 99 |
| 74) Fluoranthene | 9.646 | 202 | 654439 | 21.5704 | ug/mL | 100 |
| 76) Benzidine | 0.000 | | 0 | N.D. | | |
| 77) Pyrene | 9.799 | 202 | 547946 | 16.2606 | ug/mL | 100 |
| 79) Btylbzylphth | 10.245 | 149 | 61038 | 3.6635 | ug/mL | 95 |
| 80) bis2Ethlhxlad | 10.302 | 129 | 53818 | 3.5235 | ug/mL | 98 |
| 81) 33Diclbnzidin | 10.669 | 252 | 5352 | 0.5232 | ug/mL | 85 |
| 82) B[a]anthracen | 10.697 | 228 | 328475 | 10.2840 | ug/mL | 97 |
| 83) Chrysene | 10.731 | 228 | 322227 | 10.7569 | ug/mL | 98 |
| 84) bis2Ethlhxlph | 10.714 | 149 | 93184 | 3.8334 | ug/mL | 100 |
| 85) Dinoctylphthl | 11.356 | 149 | 148237 | 3.8816 | ug/mL | 100 |
| 87) B[b]fluoranth | 11.791 | 252 | 405380 | 13.7843 | ug/mL | 99 |
| 88) B[k]fluoranth | 11.819 | 252 | 217636 | 7.3862 | ug/mL | 99 |
| 89) Benz[a]pyrene | 12.192 | 252 | 279934 | 10.3504 | ug/mL | 95 |
| 90) Indeno-pyrene | 13.561 | 276 | 225355 | 7.5335 | ug/mL | 100 |
| 91) Dib[ah]anthr | 13.584 | 278 | 103743 | 4.2427 | ug/mL | 99 |
| 92) B[ghi]perylen | 13.877 | 276 | 185000 | 7.8937 | ug/mL | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568828Y.D Vial: 6
Acq On : 11 Apr 2025 12:59 Operator: JJY
Sample : 290730,MSS1568828,5 Inst : SVMS2
Misc : 1569383,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:12 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568828Z.D Vial: 7
Acq On : 11 Apr 2025 13:22 Operator: JJY
Sample : 290730,MSDS1568828,5 Inst : SVMS2
Misc : 1569384,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:14 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.309 | 152 | 146925 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.000 | 136 | 703026 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.779 | 164 | 387267 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.833 | 188 | 575425 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.711 | 240 | 506973 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 12.271 | 264 | 540224 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.082 | 112 | 61919 | 17.50 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 17.50% | | | |
| 7) SURRPhenol-d5 | 3.894 | 99 | 74320 | 17.48 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 17.48% | | | |
| 22) SURRNitrbenzened5 | 4.988 | 82 | 35177 | 18.36 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 18.36% | | | |
| 44) SURR2Flbiphenyl | 7.196 | 172 | 98362 | 21.29 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 21.29% | | | |
| 62) SURR246Tribrphenl | 8.384 | 330 | 24061 | 23.21 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 23.21% | | | |
| 78) SURRTerphenyl-d14 | 9.901 | 244 | 117280 | 23.72 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 23.72% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.286 | 74 | 17762 | 3.1222 | ug/mL | 94 |
| 3) Pyridine | 2.326 | 79 | 5983 | 0.5886 | ug/mL | 97 |
| 5) Aniline | 3.946 | 93 | 4743 | 0.3498 | ug/mL# | 41 |
| 6) bis2Clethletr | 4.011 | 93 | 30730 | 3.4435 | ug/mL | 96 |
| 8) Phenol | 3.909 | 94 | 34484 | 3.1652 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.071 | 128 | 31916 | 3.2528 | ug/mL | 99 |
| 10) 13Diclbenz | 4.244 | 146 | 36174 | 3.3851 | ug/mL | 96 |
| 11) 14Diclbenz | 4.326 | 146 | 37232 | 3.4045 | ug/mL | 96 |
| 12) 12Diclbenz | 4.505 | 146 | 34801 | 3.3694 | ug/mL | 96 |
| 13) Benzyl alcoho | 4.468 | 108 | 21055 | 3.3330 | ug/mL | 98 |
| 14) bis2clispreth | 4.645 | 45 | 56358 | 3.3358 | ug/mL | 97 |
| 15) 2Methylphenol | 4.611 | 107 | 23315 | 3.0689 | ug/mL | 93 |
| 16) Ntrspyrrol | 4.761 | 100 | 15750 | 3.3206 | ug/mL | 96 |
| 17) Acetophenone | 4.798 | 105 | 45783 | 3.3318 | ug/mL | 99 |
| 18) Hexaclethane | 4.926 | 117 | 13369 | 3.2117 | ug/mL | 97 |
| 19) N-Ntrsdinprop | 4.807 | 70 | 22365 | 3.3969 | ug/mL | 91 |
| 20) 3&4Methylphenol | 4.812 | 107 | 33493 | 3.4011 | ug/mL | 92 |
| 23) Nitrobenzene | 5.014 | 77 | 31215 | 3.3725 | ug/mL | 97 |
| 24) Isophorone | 5.375 | 82 | 66664 | 3.4188 | ug/mL | 97 |
| 25) 2-Nitrophenol | 5.486 | 139 | 21176 | 3.4449 | ug/mL | 94 |
| 26) 24Dimthpheno | 5.579 | 122 | 17981 | 1.9031 | ug/mL | 91 |
| 27) bis2clethoxym | 5.716 | 93 | 41746 | 3.4361 | ug/mL | 92 |
| 28) 24Diclphenol | 5.827 | 162 | 32555 | 3.6816 | ug/mL | 94 |
| 29) 124Triclbenz | 5.935 | 180 | 35014 | 3.5414 | ug/mL | 95 |
| 30) Benzoic acid | 5.662 | 122 | 13406 | 5.1904 | ug/mL | 82 |
| 31) Naphthalene | 6.026 | 128 | 126823 | 3.9115 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.111 | 127 | 9899 | 0.7824 | ug/mL | 93 |
| 33) 26Diclphenol | 6.117 | 162 | 26153 | 3.0035 | ug/mL | 94 |
| 34) Hexaclprop | 6.145 | 213 | 17465 | 2.7492 | ug/mL | 95 |
| 35) Hexaclbutdien | 6.202 | 225 | 19931 | 3.4425 | ug/mL | 95 |
| 36) 4Cl3methylphe | 6.696 | 107 | 35033 | 3.9282 | ug/mL | 96 |
| 37) 2Methylnaphth | 6.821 | 142 | 76704 | 3.9143 | ug/mL | 99 |
| 38) 1Methylnaphth | 6.918 | 142 | 79442 | 3.9199 | ug/mL | 99 |
| 40) Hxclcycpentdi | 6.986 | 237 | 8023 | 1.3364 | ug/mL | 95 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568828Z.D Vial: 7
Acq On : 11 Apr 2025 13:22 Operator: JJY
Sample : 290730,MSDS1568828,5 Inst : SVMS2
Misc : 1569384,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:14 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M

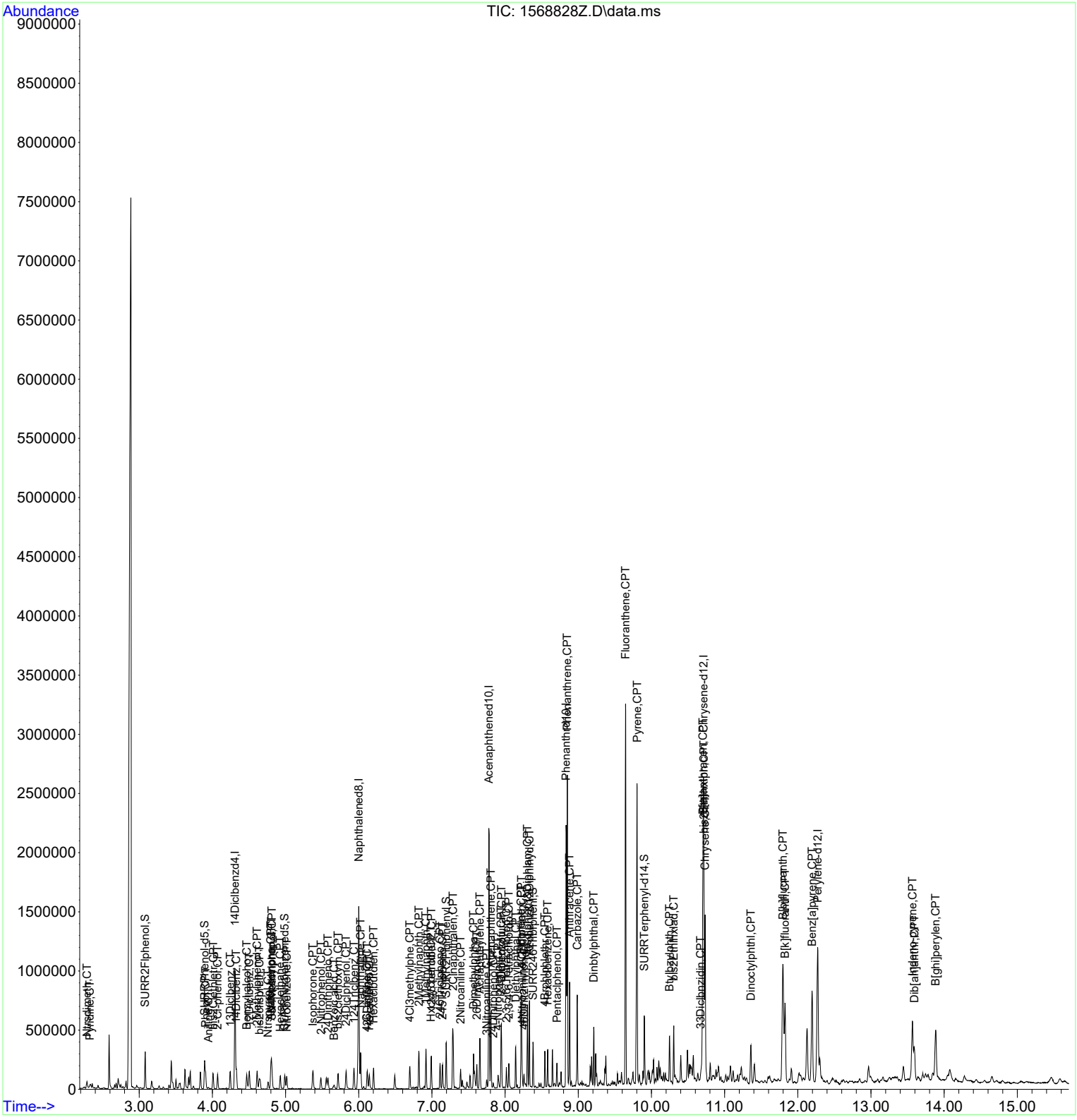
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 6.992 | 216 | 34462 | 3.9049 ug/mL | 99 |
| 42) 246Triclpheno | 7.111 | 196 | 24040 | 4.0585 ug/mL | 91 |
| 43) 245Triclpheno | 7.145 | 196 | 25965 | 4.0330 ug/mL | 98 |
| 45) 2Clnaphthalen | 7.290 | 162 | 75229 | 3.8419 ug/mL | 98 |
| 46) 2Nitroaniline | 7.392 | 65 | 23670 | 4.1734 ug/mL | 98 |
| 47) Acnaphthylene | 7.657 | 152 | 125216 | 3.9951 ug/mL | 100 |
| 48) Dimethylphtha | 7.568 | 163 | 92050 | 4.0209 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.614 | 165 | 20283 | 3.9038 ug/mL | 98 |
| 50) Acenaphthene | 7.807 | 154 | 114601 | 6.1523 ug/mL | 99 |
| 51) 3Nitroaniline | 7.747 | 138 | 11602 | 2.3332 ug/mL | 94 |
| 52) 24Dinitphenol | 7.838 | 184 | 2976 | 5.4386 ug/mL | 71 |
| 53) Dibenzofuran | 7.949 | 168 | 138064 | 5.1326 ug/mL | 97 |
| 54) 24Dinitrotolu | 7.944 | 165 | 27985 | 4.1153 ug/mL | 94 |
| 55) 4-Nitrophenol | 7.904 | 65 | 15882 | 5.1350 ug/mL | 97 |
| 56) 2,3,5,6-Tetrachlorop | 8.017 | 232 | 16706 | 4.1088 ug/mL | 98 |
| 57) 2,3,4,6-Tetrachlorop | 8.052 | 232 | 20137 | 4.2754 ug/mL | 93 |
| 58) Fluorene | 8.219 | 166 | 120211 | 5.8459 ug/mL | 96 |
| 59) 4Clphlphlethr | 8.225 | 204 | 42515 | 4.3900 ug/mL | 91 |
| 60) Diethylphthal | 8.145 | 149 | 96562 | 4.2386 ug/mL | 99 |
| 61) 4Nitroaniline | 8.233 | 138 | 16653 | 3.7320 ug/mL | 98 |
| 64) 46Dinit2mylph | 8.259 | 198 | 10388 | 5.0914 ug/mL | 98 |
| 65) Ntrsdiphlam&Diphlam | 8.304 | 169 | 114706 | 7.7316 ug/mL | 98 |
| 66) Azobenz&12Diphlhyd | 8.333 | 182 | 51013 | 9.6428 ug/mL# | 66 |
| 67) 4Brphlphlethr | 8.543 | 248 | 22559 | 4.1754 ug/mL | 99 |
| 68) Hexaclbenzene | 8.583 | 284 | 25020 | 4.1405 ug/mL | 94 |
| 69) Pentaclphenol | 8.711 | 266 | 7642 | 6.0564 ug/mL | 91 |
| 70) Phenanthrene | 8.850 | 178 | 652570 | 23.2775 ug/mL | 100 |
| 71) Anthracene | 8.881 | 178 | 226124 | 7.9278 ug/mL | 99 |
| 72) Carbazole | 8.986 | 167 | 204951 | 8.4384 ug/mL | 99 |
| 73) Dinbtylphthal | 9.211 | 149 | 150705 | 4.4355 ug/mL | 100 |
| 74) Fluoranthene | 9.646 | 202 | 935189 | 31.5909 ug/mL | 99 |
| 76) Benzidine | 0.000 | | 0 | N.D. | |
| 77) Pyrene | 9.805 | 202 | 750054 | 23.2922 ug/mL | 100 |
| 79) Btylbzylphth | 10.248 | 149 | 66101 | 4.1517 ug/mL | 93 |
| 80) bis2Ethlhxlad | 10.305 | 129 | 61109 | 4.1867 ug/mL | 97 |
| 81) 33Diclbnzidin | 10.671 | 252 | 8181 | 0.9931 ug/mL | 84 |
| 82) B[a]anthracen | 10.703 | 228 | 461004 | 15.1036 ug/mL | 99 |
| 83) Chrysene | 10.734 | 228 | 432628 | 15.1133 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.717 | 149 | 104122 | 4.4824 ug/mL | 99 |
| 85) Dinoctylphthl | 11.359 | 149 | 166642 | 4.5066 ug/mL | 99 |
| 87) B[b]fluoranth | 11.797 | 252 | 539935 | 18.8679 ug/mL | 100 |
| 88) B[k]fluoranth | 11.825 | 252 | 277101 | 9.6647 ug/mL | 98 |
| 89) Benz[a]pyrene | 12.194 | 252 | 372823 | 14.1666 ug/mL | 98 |
| 90) Indeno-pyrene | 13.567 | 276 | 283735 | 9.7477 ug/mL | 97 |
| 91) Dib[ah]anthr | 13.592 | 278 | 122726 | 5.1580 ug/mL | 97 |
| 92) B[ghi]perylen | 13.882 | 276 | 230870 | 10.1236 ug/mL | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S041125\1568828Z.D Vial: 7
Acq On : 11 Apr 2025 13:22 Operator: JJY
Sample : 290730,MSDS1568828,5 Inst : SVMS2
Misc : 1569384,500 ul + 5ul IS S5036C Multiplr: 1.00
Integrator: RTE
Quant Time: Apr 14 15:57:14 2025

Quant Method : C:\INSTARCH\METHOD\2S040925.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Apr 14 15:52:48 2025
Response via : Initial Calibration
DataAcq Meth:2S040925.M



# SEMI - VOLATILE ORGANIC ANALYSIS
# LOGBOOK
# DOCUMENTS

# S SVOC 8270 WATER Analytical Run
# 290647 on 4/8/2025

Date Analyzed: _____ ALD 04/17/2025 Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | | QC TYPE (Parent Sample) | | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568824 | | 4/1/2025 | 13:50 | | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | GW | **4** | |
| | | RB-01-DFW | | | | | | | | 138277 | | | |
| 194056 | 1569376 | | 4/4/2025 | 15:20 | | | CH2M - JACOBS | OFFUTT | SVOC 8270 QSM 5 | | GW | **2** | |
| | | IDW-1-04042025 | | | | | | | | 138277 | | | |
| | 1569377 | | | | | | | | SVOC 8270 QSM 5 | | | | |
| | | | | | MBW | | | | | 138277 | | | |
| | 1569378 | | | | | | | | SVOC 8270 QSM 5 | | | | |
| | | | | | LCSW | | | | | 138277 | | | |
| | 1569379 | | | | | | | | SVOC 8270 QSM 5 | | | | |
| | | | | | LCSDW | 1569378 | | | | 138277 | | | |

**5** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmp2FE5.tmp Page 1 of 1

# PrepWrkSht
# on 4/8/2025

Prep Batch **138,277** Date Prepped: 4/7/2025 Prepped By:: AJZ

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1569377 | MBW | | SVOC 8270 QSM 5 | LIQUID | 1.0 | | 1.00 | | |
| | 1569378 | LCSW | | SVOC 8270 QSM 5 | LIQUID | 1.0 | | 1.00 | | |
| | 1569379 | LCSDW | 1569378 | SVOC 8270 QSM 5 | LIQUID | 1.0 | | 1.00 | | |
| 194024 | 1568824 | | | SVOC 8270 QSM 5 | GROUND WATER | 1.0 | | 1.03 | 4 | |
| 194056 | 1569376 | | | SVOC 8270 QSM 5 | GROUND WATER | 1.0 | | 0.99 | 2 | |

Notes:_____

# Method 8270D/E-Semi Volatile GC/MS Extraction Bench Sheet

(SOP Reference #'s SV006, SV007,SV022, SV023, SV024, SV031, SV032, SV033)

Prep Method Options:

3510C=Separatory Funnel
3546=Microwave
3535A=SPE
sonication=14-dioxane soils
3580A=Waste Dilution

| | |
|---|---|
| **Prep Batch #:** | 138277 |
| **Prep Method:** | 3510C |
| **Analyst:** | AJZ |
| **Date:** | 04/07/2025 |
| **Start Time:** | 11:10 |
| **End Date:** | 04/07/2025 |
| **End Time:** | 17:00 |

**Reagent Lots>>>**

| | |
|---|---|
| Sodium Sulfate | MISC1299 |
| Diatomaceous Earth | NA |
| Dionex Solution | NA |
| Methylene Chloride | S5078 |
| Acetone | NA |
| Sulfuric Acid | MISC1298 |
| Sodium Hydroxide | MISC1310 |
| SPE Cartridge | NA |
| pH strip | 10D0144 |

| | |
|---|---|
| Matrix: | WATER |
| Balance Used: | NA |
| Ave MW temp(°C): | NA |

**SPE Aparatus (check one):**

| | |
|---|---|
| Autotrace 280: | NA |
| Manual SPE: | NA |
| Initial Concentration By: | NA |
| Date: | NA |
| GPC Cleanup? (yes/no): | NO |
| Date: | NA |
| Final Concentration By: | AJZ |
| Date: | 04/07/2025 |

| Microwave Cell # | Sample ID | Comments | (Solids) Sample Weight (g) | (Liquids) Sample Volume (L) | Final Volume (mL) | ph Adj. <2 (Yes/No) | pH Adj. >12 (Yes/No) |
|---|---|---|---|---|---|---|---|
| | 1569377 | MB | | 1.00 | 1.0 | Y | Y |
| | 1569378 | LCS | | 1.00 | 1.0 | Y | Y |
| | 1569379 | LCSD | | 1.00 | 1.0 | Y | Y |
| | 1568824 | | | 1.03 | 1.0 | Y | **Y** |
| | 1569376 | | | 0.99 | 1.0 | Y | Y |
| | | | | | | | |
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| | | | | | | | |
| | | (MS) Parent Sample | | | | | |
| | | (MSD) | | | | | |

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike & MSD=Matrix Spike Duplicate

| | | | |
|---|---|---|---|
| MS/MSD/ LCS Spike Amount (mL): | 1 | Surrogate Spike Amount (mL): | 1 |
| Spike Concentration (µg/mL): | 20 | Surrogate Spike Conc. (µg/mL): | 20/40 |
| Spike Reference #: | SVMS10270 | Surrogate Spike Reference #: | SVMS10215 |

Relinquished to: ALD
Date: 04/08/2025

Reviewed By: ALD
Date: 04/08/2025

# 8270D/E SVOC Analysis Data Review Checklist

| | |
|---|---|
| **Analytical Run #: 290647** | **Independent Reviewer: ALD** |
| **Sequence Date: 04/08/2025** | **Date of Review: 04/09/2025** |
| **Analyst/Data Interpreter: JJY** | **Approval: Yes** |

**Instructions:** Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

| Requirements: | Acceptance Criteria | Analyst Review | | Independent Review | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **1. INITIAL CALIBRATION (ICAL)** | | | | | | |
| a. Was the initial calibration performed using a minimum of five standard concentration levels? | Lowest standard at or near MRL | x | | x | | |
| b. SPCC responses. | Avg. RRF ≥ 0.05 | x | | x | | |
| c. Is the variation between calibration response factors for all concentration levels <15% RSD or $r^2$ ≥ 0.990 for the regression line. RSD≤ 15%, ≤ 30% for CCCs. | RSD≤ 15%, ≤ 30% for CCCs | x | | x | | |
| d. Was the %RE acceptable for the low point and mid-point of the curve for all calibration models except for average RF where the RSD is used? Was the %RE ≤30% for the low point and ≤20% for the mid-point of the curve? If applicable, was the %RSE ≤30%? | Low Point ≤30%<br>Mid-point ≤20%<br>%RSE ≤30% | x | | x | | |
| e. Were the standards used for the ICAL uniquely identified? | | x | | x | | |
| f. Was there a DFTPP standard analyzed prior to the ICAL? | | x | | x | | |
| g. Was an instrument blank (IB) analyzed prior to the ICAL? | | x | | x | | |
| h. Data reviewer: was the ICAL viewed on the data system (ChemStation) to verify that peaks are correctly identified? | Viewed on data system by 2nd analyst | | | x | | |
| **2. INITIAL CALIBRATION VERIFICATION (ICV)** | | | | | | |
| a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples? | Second source | x | | x | | |
| b. Were the SPCC within QC limits | RRF ≥ 0.05 | x | | x | | |
| c. Were the CCCs within QC limits | %D ≤ 20% | x | | x | | |
| d. Were the ICVs uniquely identified (i.e. Standard Number)? | | x | | x | | |
| **3. CONTINUING CALIBRATION VERIFICATION (CCV)** | | | | | | |
| a. Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours. | | x | | x | | |
| b. Were SPCC compounds acceptable? | RRF ≥ 0.050 | x | | x | | |
| c. Were the CCCs compounds acceptable? | %D ≤ 20% | x | | x | | |
| d. Were the recoveries for the CCVs acceptable? | %D≤20% | x | | x | | |
| e. Was each CCV uniquely identified (i.e. Standard Number)? | | x | | x | | |

**Additional Comments:**

CT Laboratories
Organic Laboratory Section

**Analytical Run #: 290647**

## 8270D/E SVOC Analysis Data Review Checklist

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **4. DFTPP** | | | | | | |
| a. Was a DFTPP tune check ran at the beginning of every twelve hour shift? | | x | | x | | |
| b. Were the relative abundance criteria met? | | x | | x | | |
| c. Was the peak tailing <2 on Pentachlorophenol and <2 on Benzidine? | Tailing <2% | x | | x | | |
| d. Was the breakdown of DDT to DDE and DDD less than 20% | Breakdown ≤20% | x | | x | | |
| **5. BLANKS** | | | | | | |
| a. Was method blank (MB) analyzed prior to the analysis of samples? | | x | | x | | |
| b. Were the MB results less than the reporting limit (RL)? | < MRL | x | | x | | Di-n-butylphthalate 0.389 ug/L. "B" samples < 3.89 ug/L. |
| c. Was a MB prepped and analyzed at a frequency of one per Prep Batch? | Batch <20 samples | x | | x | | |
| **6. LABORATORY CONTROL SAMPLE (LCS)** | | | | | | |
| a. Was a LCS analyzed prior to the analysis of samples? | | x | | x | | |
| b. Were the LCS recoveries in each LCS within the acceptance criteria? | In-house limits or client specified limits | x | | x | | |
| **7. MATRIX SPIKES** | | | | | | |
| a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch? | Batch <20 samples | | x | | x | LCS/LCSD. |
| b. Were MS recoveries in each MS within the acceptance criteria? | In-house limits or client specified limits | na | | NA | | |
| **8. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE** | | | | | | |
| a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a frequency one per Prep Batch? | Batch <20 samples | x | | x | | LCSD |
| b. Were MSD or LCSD recoveries within the acceptance criteria? | In-house limits or client specified limits | x | | x | | |
| c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria? | In-house limits or client specified limits | | x | | x | Benzidine, benzoic acid, and pyridine had high RPDs. "Y" samples. |

**Additional Comments:**

# 8270D/E SVOC Analysis Data Review Checklist

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **9. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)** | | | | | | |
| a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV? | | x | | x | | |
| b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria? | | x | | x | | |
| c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? | | x | | x | | |
| d. Were all samples extracted within holding times? | Waters extracted within 7days of collection, soils 14 days of collection | x | | x | | |
| e.Were all samples analyzed within 40 days of extracting? | Analysis within 40 days of extraction | x | | x | | |
| f. Did the samples require additional cleanup steps? (i.e. acid treatment, acid-base fractioning, and GPC) | GPC, Acid/Base, Treatments | | x | | x | |
| g. Where all manual integrations performed properly? | | x | | x | | |
| h. Was the rational for the manual integration verified? | | x | | x | | |
| **10. RECORDS AND REPORTING** | | | | | | |
| a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the data file? | | x | | x | | |
| b. Are all chromatograms dated and initialed? | | x | | x | | |
| c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed? | | x | | x | | |
| d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data? | | x | | x | | |
| e. Is the ICAL method referenced on the Raw Data? | | x | | x | | |

**Additional Comments:**

Sequence Name: C:\INSTARCH\SEQUENCE\2S040725.s
Comment: 8270 ICAL ICALA
Operator: JJY
Data Path: C:\INSTARCH\DATA\2S040725\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

ALD
04/17/2025

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

| Line | | | Sample Name/Misc Info |
|---|---|---|---|
| 1) | Sample | 100 | 2PRIME01 2S040725 PRIME 100ug/mL |
| 2) | DFTPP | 1 | 2DFTP349 2DFTPP DFTPP TUNE SVMS10212 |
| 3) | Sample | 2 | 2IB01 2S040725 Instrument Blank |
| 4) | Sample | 3 | 2ICAL7 2S040725 ICAL 50 ug/mL SVMS10297 |
| 5) | Sample | 4 | 2ICAL6 2S040725 ICAL 40 ug/mL SVMS10296 |
| 6) | Sample | 5 | 2ICAL5 2S040725 ICAL 30 ug/mL SVMS10295 |
| 7) | Sample | 6 | 2ICAL4 2S040725 ICAL 20 ug/mL SVMS10294 |
| 8) | Sample | 7 | 2ICAL3 2S040725 ICAL 10 ug/mL SVMS10293 |
| 9) | Sample | 8 | 2ICAL2 2S040725 ICAL 5 ug/mL SVMS10292 |
| 10) | Sample | 9 | 2ICAL1 2S040725 ICAL 1 ug/mL SVMS10291 |
| 11) | Sample | 10 | 2ICV1 2S040725 ICV 20 ug/mL SVMS10288 |
| 12) | Sample | 11 | 2ICV2 2S040725 ICV 40 ug/mL SVMS10289 |
| 13) | Sample | 12 | 2IB02 2S040725 Instrument Blank |
| 14) | Sample | 13 | 2ICAL7A 2S040725 ICAL A 50 ug/mL SVMS10194 |
| 15) | Sample | 14 | 2ICAL6A 2S040725 ICAL A 40 ug/mL SVMS10193 |
| 16) | Sample | 15 | 2ICAL5A 2S040725 ICAL A 30 ug/mL SVMS10192 |
| 17) | Sample | 16 | 2ICAL4A 2S040725 ICAL A 20 ug/mL SVMS10191 |
| 18) | Sample | 17 | 2ICAL3A 2S040725 ICAL A 10 ug/mL SVMS10190 |
| 19) | Sample | 18 | 2ICAL2A 2S040725 ICAL A 5 ug/mL SVMS10189 |
| 20) | Sample | 19 | 2ICAL1A 2S040725 ICAL A 1 ug/mL SVMS10188 |
| 21) | Sample | 20 | 2ICV1A 2S040725 ICV A 20 ug/mL SVMS10195 |
| 22) | Sample | 21 | 2ICV2A 2S040725 ICV A 40 ug/mL SVMS10196 |
| 23) | Sample | 22 | 2IB03 2S040725 Instrument blank |

Sequence Name: C:\INSTARCH\SEQUENCE\2S040825.s
Comment: 8270
Operator: JJY
Data Path: C:\INSTARCH\DATA\2S040825\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

ALD
04/17/2025

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

| Line | | | Sample Name/Misc Info |
|---|---|---|---|
| 1) | Sample | 100 | 2PRIME01 2S040725 PRIME 100ug/mL |
| 2) | DFTPP | 1 | 2DFTP350 2DFTPP DFTPP TUNE SVMS10212 |
| 3) | Sample | 2 | 2CCV398 2S040725 CCV 20 ug/mL SVMS10298 |
| 4) | Sample | 3 | 2CCV399 2S040725 CCV A 20 ug/mL SVMS10197 |
| 5) | Sample | 4 | 2IB01 2S040725 Instrument Blank |
| 6) | Sample | 5 | 2MBS01 2S040725 289676,MBS, |
| 7) | Sample | 6 | 1556926 2S040725 289676,1556926, |
| 8) | Sample | 7 | 1556927 2S040725 289676,1556927, |
| 9) | Sample | 8 | 1556928 2S040725 289676,1556928, |
| 10) | Sample | 9 | 1556929 2S040725 289676,1556929, |
| 11) | Sample | 10 | 2IB02 2S040725 Instrument Blank |
| 12) | Sample | 11 | 2MBW01 2S040725 290647,MBW, |
| 13) | Sample | 12 | 2LCSW01 2S040725 290647,LCSW, |
| 14) | Sample | 13 | 2LCSDW01 2S040725 290647,LCSDW, |
| 15) | Sample | 14 | 1568824 2S040725 290647,1568824, |
| 16) | Sample | 15 | 1569376 2S040725 290647,1569376, |
| 17) | DFTPP | 16 | 2DFTP351 2DFTPP DFTPP TUNE SVMS10212 |
| 18) | Sample | 17 | 2CCV400 2S040725 CCV 20 ug/mL SVMS10298 |
| 19) | Sample | 18 | 2CCV401 2S040725 CCV A 20 ug/mL SVMS10197 |
| 20) | Sample | 19 | 2IB03 2S040725 Instrument Blank |
| 21) | Sample | 20 | 2MBW02 2S040725 290451,MBW, |
| 22) | Sample | 21 | 2LCSW02 2S040725 290451,LCSW, |
| 23) | Sample | 22 | 1566605 2S040725 290451,1566605, |
| 24) | Sample | 23 | 1567253 2S040725 290451,1567253, |
| 25) | Sample | 24 | 1567253S 2S040725 290451,MSW1567253, |
| 26) | Sample | 25 | 1567253D 2S040725 290451,MSDW1567253, |
| 27) | Sample | 26 | 2IB04 2S040725 Instrument Blank |
| 28) | Sample | 27 | 2MBW03 2S040725 290646,MBW, |
| 29) | Sample | 28 | 2LCSW03 2S040725 290646,LCSW, |
| 30) | Sample | 29 | 1568474 2S040725 290646,1568474,10 |
| 31) | Sample | 30 | 1568501 2S040725 290646,1568501, |
| 32) | Sample | 31 | 1568501S 2S040725 290646,MSW1568501, |
| 33) | Sample | 32 | 1568501D 2S040725 290646,MSDW1568501, |
| 34) | Sample | 33 | 2IB05 2S040725 Instrument Blank |
| 35) | Sample | 34 | 2MBW04 2S040725 290450,MBW, |
| 36) | Sample | 35 | 2LCSW04 2S040725 290450,LCSW, |
| 37) | Sample | 36 | 2LCSDW04 2S040725 290450,LCSDW, |
| 38) | Sample | 37 | 1566663 2S040725 290450,1566663,10 |
| 39) | Sample | 38 | 2IB06 2S040725 Instrument Blank |

# S SVOC 8270 SOIL Analytical Run
# 290730 on 4/10/2025

Date Analyzed: _____ ALD 04/17/2025 Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568820 | | 4/1/2025 10:30 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-112-0-DFW | | | | | | 138278 | | | |
| 194024 | 1568821 | | 4/1/2025 11:10 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-112-5-DFW | | | | | | 138278 | | | |
| 194024 | 1568822 | | 4/1/2025 11:35 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-111-0-DFW | | | | | | 138278 | | | |
| 194024 | 1568823 | | 4/1/2025 12:10 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-111-5-DFW | | | | | | 138278 | | | |
| 194024 | 1568828 | | 4/1/2025 14:25 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-113-0-DFW | | Designated MS/MSD | | | | 138278 | | | |
| 194024 | 1568830 | | 4/1/2025 15:10 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-113-5-DFW | | | | | | 138278 | | | |
| 194024 | 1568832 | | 4/1/2025 14:45 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | DUP-2-DFW | | | | | | 138278 | | | |
| 194024 | 1568834 | | 4/1/2025 15:25 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-114-0-DFW | | | | | | 138278 | | | |
| 194024 | 1568836 | | 4/1/2025 15:35 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-115-0-DFW | | | | | | 138278 | | | |
| 194024 | 1568838 | | 4/1/2025 15:45 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-116-0-DFW | | | | | | 138278 | | | |
| 194024 | 1568839 | | 4/1/2025 15:55 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-118-0-DFW | | | | | | 138278 | | | |
| 194024 | 1568841 | | 4/1/2025 16:00 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-117-0-DFW | | | | | | 138278 | | | |
| 194024 | 1568842 | | 4/1/2025 16:05 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-119-0-DFW | | | | | | 138278 | | | |
| 194024 | 1568843 | | 4/1/2025 16:10 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-120-0-DFW | | | | | | 138278 | | | |
| 194024 | 1568844 | | 4/1/2025 16:20 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-122-0-DFW | | | | | | 138278 | | | |
| 194024 | 1568845 | | 4/1/2025 16:25 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | SB-121-0-DFW | | | | | | 138278 | | | |
| 194024 | 1568846 | | 4/1/2025 13:10 | | HDR, INC | DDMT-DFW | SVOC 8270 QSM 5 | | S | 4 | |
| | | DUP-1-DFW | | | | | | 138278 | | | |
| | 1569380 | | | | | | SVOC 8270 QSM 5 | | | | |
| | | | | MBS | | | | 138278 | | | |
| | 1569381 | | | | | | SVOC 8270 QSM 5 | | | | |
| | | | | LCSS | | | | 138278 | | | |

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmpB1C5.tmp Page 1 of 1

# S SVOC 8270 SOIL Analytical Run
# 290730 on 4/10/2025

Date Analyzed: _____ ALD 04/17/2025 Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | | QC TYPE (Parent Sample) | | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1569383 | | 4/1/2025 | 14:25 | | | | | SVOC 8270 QSM 5 | | | | |
| | | SB-113-0-DFW | | | MSS | 1568828 | | | | 138278 | | | |
| | 1569384 | | 4/1/2025 | 14:25 | | | | | SVOC 8270 QSM 5 | | | | |
| | | SB-113-0-DFW | | | MSDS | 1569383 | | | | 138278 | | | |

**21** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmpB1C5.tmp Page 1 of 1

# PrepWrkSht
# on 4/10/2025

Prep Batch **138,278** Date Prepped: 4/8/2025 Prepped By:: TJD

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1569380 | MBS | | SVOC 8270 QSM 5 | SOLID | 1.0 | 10.00 | | | |
| | 1569381 | LCSS | | SVOC 8270 QSM 5 | SOLID | 1.0 | 10.00 | | | |
| 194024 | 1568820 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.20 | | 4 | |
| | 1568821 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.44 | | 4 | |
| | 1568822 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.39 | | 4 | |
| | 1568823 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.57 | | 4 | |
| | 1568828 | sample designated for QC | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.10 | | 4 | |
| | 1568830 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.12 | | 4 | |
| | 1568832 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.84 | | 4 | |
| | 1568834 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.38 | | 4 | |
| | 1568836 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.68 | | 4 | |
| | 1568838 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.03 | | 4 | |
| | 1568839 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.58 | | 4 | |
| | 1568841 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.24 | | 4 | |
| | 1568842 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.57 | | 4 | |
| | 1568843 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.46 | | 4 | |
| | 1568844 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.21 | | 4 | |
| | 1568845 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.19 | | 4 | |
| | 1568846 | | | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.58 | | 4 | |
| | 1569383 | MSS | 1568828 | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.31 | | | |
| | 1569384 | MSDS | 1569383 | SVOC 8270 QSM 5 | SOIL | 1.0 | 10.64 | | | |

Notes:_____

# Method 8270D/E-Semi Volatile GC/MS Extraction Bench Sheet

(SOP Reference #'s SV006, SV007,SV022, SV023, SV024, SV031, SV032, SV033)

Prep Method Options:

3510C=Separatory Funnel
3546=Microwave
3535A=SPE
sonication=14-dioxane soils
3580A=Waste Dilution

| | |
|---|---|
| **Prep Batch #:** | 138278 |
| **Prep Method:** | 3546 |
| **Analyst:** | TJD |
| **Date:** | 04/08/2025 |
| **Start Time:** | 07:00 |
| **End Date:** | 04/08/2025 |
| **End Time:** | 18:00 |

**Reagent Lots>>>**

| | |
|---|---|
| Sodium Sulfate | MISC1299 |
| Diatomaceous Earth | S4620 |
| Dionex Solution | MISC1331B |
| Methylene Chloride | S5078 |
| Acetone | EH983-US |
| Sulfuric Acid | NA |
| Sodium Hydroxide | NA |
| SPE Cartridge | NA |
| pH strip | NA |

| | |
|---|---|
| Matrix: | Soil |
| Balance Used: | SVB03 |
| Ave MW temp(°C): | 110.0 |

**SPE Aparatus (check one):**

| | |
|---|---|
| Autotrace 280: | NA |
| Manual SPE: | NA |
| | NA |
| Initial Concentration By: | NA |
| Date: | NA |
| GPC Cleanup? (yes/no): | No |
| Date: | NA |
| Final Concentration By: | TJD |
| Date: | 04/08/2025 |

| Microwave Cell # | Sample ID | Comments | | (Solids) Sample Weight (g) | (Liquids) Sample Volume (L) | Final Volume (mL) | ph Adj. <2 (Yes/No) | pH Adj. >12 (Yes/No) |
|---|---|---|---|---|---|---|---|---|
| A | 1569380 | MB | | 10.00 | | 1.0 | N | N |
| B | 1569381 | LCS | | 10.00 | | 1.0 | N | N |
| C | 1568820 | | | 10.20 | | 1.0 | N | N |
| D | 1568821 | | | 10.44 | | 1.0 | N | **N** |
| E | 1568822 | | | 10.39 | | 1.0 | N | N |
| F | 1568823 | | | 10.57 | | 1.0 | N | N |
| G | 1568828 | | | 10.10 | | 1.0 | N | N |
| H | 1568830 | | | 10.12 | | 1.0 | N | N |
| I | 1568832 | | | 10.84 | | 1.0 | N | N |
| J | 1568834 | | | 10.38 | | 1.0 | N | N |
| K | 1568836 | | | 10.68 | | 1.0 | N | N |
| L | 1568838 | | | 10.03 | | 1.0 | N | N |
| M | 1568839 | | | 10.58 | | 1.0 | N | N |
| N | 1568841 | | | 10.24 | | 1.0 | N | N |
| O | 1568842 | | | 10.57 | | 1.0 | N | N |
| P | 1568843 | | | 10.46 | | 1.0 | N | N |
| Q | 1568844 | | | 10.21 | | 1.0 | N | N |
| R | 1568845 | | | 10.19 | | 1.0 | N | N |
| S | 1568846 | | | 10.58 | | 1.0 | N | N |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| T | 1569383 | (MS) | Parent Sample | 10.31 | | 1.0 | N | N |
| U | 1569384 | (MSD) | 1568828 | 10.64 | | 1.0 | N | N |

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike & MSD=Matrix Spike Duplicate

| | | | |
|---|---|---|---|
| MS/MSD/ LCS Spike Amount (mL): | 1 | Surrogate Spike Amount (mL): | 1 |
| Spike Concentration (µg/mL): | 20 | Surrogate Spike Conc. (µg/mL): | 20/40 |
| Spike Reference #: | SVMS10270 | Surrogate Spike Reference #: | SVMS10215 |

Relinquished to: ALD
Date: 04/10/2025

Reviewed By: ALD
Date: 04/10/2025

# Semi-Volatiles Sample Cleanup Record Sheet

**FSV14-02, FSV25-01, FSV26-01, FSV28-01**

**Prep Batch Number(s):** 138278

## GPC (EPA 3640A)

| | |
|---|---|
| Cleanup Performed (Y/N): | N |
| Date: | |
| Time: | |
| Analyst Initials: | |
| $MeCl_2$ Lot: | |

## Florisil (EPA 3620C)

| | |
|---|---|
| Cleanup Performed (Y/N): | N |
| Date: | |
| Time: | |
| Analyst Initials: | |
| Cartridge I.D. Number: | |
| Hexane Lot: | |
| Acetone Lot: | |

## Acid (EPA 3665A)

| | |
|---|---|
| Cleanup Performed (Y/N): | N |
| Date: | |
| Time: | |
| Analyst Initials: | |
| $H_2SO_4$ Lot: | |
| Number of treatments: | |

## Sulfur (EPA 3660B)

| | |
|---|---|
| Cleanup Performed (Y/N): | Y |
| Date: | 04/08/2025 |
| Time: | 17:45 |
| Analyst Initials: | TJD |
| Copper Lot: | S5012A |

## Comments:

# 8270D/E SVOC Analysis Data Review Checklist

| | |
|---|---|
| **Analytical Run #: 290730** | **Independent Reviewer: ALD** |
| **Sequence Date: 04/10/2025, 04/11/2025, 04/14/2025** | **Date of Review: 04/16/2025** |
| **Analyst/Data Interpreter: JJY** | **Approval: Yes** |

**Instructions:** Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

| Requirements: | Acceptance Criteria | Analyst Review | | Independent Review | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **1. INITIAL CALIBRATION (ICAL)** | | | | | | |
| a. Was the initial calibration performed using a minimum of five standard concentration levels? | Lowest standard at or near MRL | x | | x | | |
| b. SPCC responses. | Avg. RRF ≥ 0.05 | x | | x | | |
| c. Is the variation between calibration response factors for all concentration levels <15% RSD or $r^2$ ≥ 0.990 for the regression line. RSD≤ 15%, ≤ 30% for CCCs. | RSD≤ 15%, ≤ 30% for CCCs | x | | x | | |
| d. Was the %RE acceptable for the low point and mid-point of the curve for all calibration models except for average RF where the RSD is used? Was the %RE ≤30% for the low point and ≤20% for the mid-point of the curve? If applicable, was the %RSE ≤30%? | Low Point ≤30%<br>Mid-point ≤20%<br>%RSE ≤30% | x | | x | | |
| e. Were the standards used for the ICAL uniquely identified? | | x | | x | | |
| f. Was there a DFTPP standard analyzed prior to the ICAL? | | x | | x | | |
| g. Was an instrument blank (IB) analyzed prior to the ICAL? | | x | | x | | |
| h. Data reviewer: was the ICAL viewed on the data system (ChemStation) to verify that peaks are correctly identified? | Viewed on data system by 2nd analyst | | | x | | |
| **2. INITIAL CALIBRATION VERIFICATION (ICV)** | | | | | | |
| a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples? | Second source | x | | x | | |
| b. Were the SPCC within QC limits | RRF ≥ 0.05 | x | | x | | |
| c. Were the CCCs within QC limits | %D ≤ 20% | x | | x | | |
| d. Were the ICVs uniquely identified (i.e. Standard Number)? | | x | | x | | |
| **3. CONTINUING CALIBRATION VERIFICATION (CCV)** | | | | | | |
| a. Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours. | | x | | x | | |
| b. Were SPCC compounds acceptable? | RRF ≥ 0.050 | x | | x | | |
| c. Were the CCCs compounds acceptable? | %D ≤ 20% | | x | | x | See below. |
| d. Were the recoveries for the CCVs acceptable? | %D≤20% | | x | | x | See below. |
| e. Was each CCV uniquely identified (i.e. Standard Number)? | | x | | x | | |

**Additional Comments:**

CCV failures listed on page 3 comments.

CT Laboratories
Organic Laboratory Section

**Analytical Run #: 290730**

## 8270D/E SVOC Analysis Data Review Checklist

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **4. DFTPP** | | | | | | |
| a. Was a DFTPP tune check ran at the beginning of every twelve hour shift? | | x | | x | | |
| b. Were the relative abundance criteria met? | | x | | x | | |
| c. Was the peak tailing <2 on Pentachlorophenol and <2 on Benzidine? | Tailing <2% | x | | x | | |
| d. Was the breakdown of DDT to DDE and DDD less than 20% | Breakdown ≤20% | x | | x | | |
| **5. BLANKS** | | | | | | |
| a. Was method blank (MB) analyzed prior to the analysis of samples? | | x | | x | | |
| b. Were the MB results less than the reporting limit (RL)? | < MRL | x | | x | | |
| c. Was a MB prepped and analyzed at a frequency of one per Prep Batch? | Batch <20 samples | x | | x | | |
| **6. LABORATORY CONTROL SAMPLE (LCS)** | | | | | | |
| a. Was a LCS analyzed prior to the analysis of samples? | | x | | x | | |
| b. Were the LCS recoveries in each LCS within the acceptance criteria? | In-house limits or client specified limits | | x | | x | low recovery of hexachlorocyclopentadiene. "Q" samples. |
| **7. MATRIX SPIKES** | | | | | | |
| a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch? | Batch <20 samples | x | | x | | |
| b. Were MS recoveries in each MS within the acceptance criteria? | In-house limits or client specified limits | | x | | x | 17 low recoveries. Parent sample qualified with "M". |
| **8. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE** | | | | | | |
| a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a frequency one per Prep Batch? | Batch <20 samples | x | | x | | |
| b. Were MSD or LCSD recoveries within the acceptance criteria? | In-house limits or client specified limits | | x | | x | 14 low recoveries. Parent sample qualified with "M". |
| c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria? | In-house limits or client specified limits | | x | | x | 20 high RPDs. Parent qualified with "Y". |

**Additional Comments:**

## 8270D/E SVOC Analysis Data Review Checklist

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **9. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)** | | | | | | |
| a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV? | | | X | | X | Undiluted samples 1568822 and 1568846 had low areas of the 6th internal standard, perylene-d12. See below. |
| b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria? | | | X | | X | Sample 1568822 had low recoveries of 4 surrogates. Sample 1568834 had 3 low surrogate recoveries. "S". |
| c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? | | X | | X | | Sample 1568846 had a low internal standard area and was reanalyzed at a 1:5 dilution and "V" flagged. |
| d. Were all samples extracted within holding times? | Waters extracted within 7days of collection, soils 14 days of collection | X | | X | | |
| e.Were all samples analyzed within 40 days of extracting? | Analysis within 40 days of extraction | X | | X | | |
| f. Did the samples require additional cleanup steps? (i.e. acid treatment, acid-base fractioning, and GPC) | GPC, Acid/Base, Treatments | X | | X | | sulfur |
| g. Where all manual integrations performed properly? | | X | | X | | |
| h. Was the rational for the manual integration verified? | | X | | X | | |
| **10. RECORDS AND REPORTING** | | | | | | |
| a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the data file? | | X | | X | | |
| b. Are all chromatograms dated and initialed? | | X | | X | | |
| c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed? | | X | | X | | |
| d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data? | | X | | X | | |
| e. Is the ICAL method referenced on the Raw Data? | | X | | X | | |

**Additional Comments:**

Ending CCV 2CCV406 had low responses for 3 analytes: hexachlorocyclopentadiene, benzidine, benzo(g,h,i)perylene. Qualified with "Z" in associated samples.

Initial CCV 2CCV407 had high responses for 4 analytes: benzoic acid, 2,4-dinitrophenol, pentachlorophenol, 3,3'-dichlorobenzidine. These four analytes were not reported from the dilutions associated with this CCV.

Initial CCV 2CCV409 had high responses for 2 analytes: benzoic acid, pentachlorophenol; and low responses for 4 analytes: benzidine, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene.

Ending CCV 2CCV410 had a low response for benzo(g,h,i)perylene. These analytes were not reported from the dilutions associated with these CCVs.

Samples reanalyzed at 1:10 & 1:5 dilutions, respectfully, w/ acceptable IS areas. Analytes with results calculated using the last internal standard were reported from thedilutions.

Sequence Name: C:\INSTARCH\SEQUENCE\2S040925.s
Comment: 8270
Operator: JJY
Data Path: C:\INSTARCH\DATA\2S040925\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

ALD
04/17/2025

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

| Line | | | Sample Name/Misc Info |
|---|---|---|---|
| 1) | Sample | 100 | 2PRIME01 2S040725 PRIME 100ug/mL |
| 2) | DFTPP | 1 | 2DFTP352 2DFTPP DFTPP TUNE SVMS10212 |
| 3) | Sample | 2 | 2CCV402 2S040725 CCV 20 ug/mL SVMS10298 |
| 4) | Sample | 100 | 2PRIME02 2S040725 PRIME 100ug/mL |
| 5) | DFTPP | 1 | 2DFTP353 2DFTPP DFTPP TUNE SVMS10212 |
| 6) | Sample | 2 | 2CCV403 2S040725 CCV 20 ug/mL SVMS10298 |
| 7) | Sample | 3 | 2IB01 2S040925 Instrument Blank |
| 8) | Sample | 4 | 2ICAL7 2S040925 ICAL 50 ug/mL SVMS10297 |
| 9) | Sample | 5 | 2ICAL6 2S040925 ICAL 40 ug/mL SVMS10296 |
| 10) | Sample | 6 | 2ICAL5 2S040925 ICAL 30 ug/mL SVMS10295 |
| 11) | Sample | 7 | 2ICAL4 2S040925 ICAL 20 ug/mL SVMS10294 |
| 12) | Sample | 8 | 2ICAL3 2S040925 ICAL 10 ug/mL SVMS10293 |
| 13) | Sample | 9 | 2ICAL2 2S040925 ICAL 5 ug/mL SVMS10292 |
| 14) | Sample | 10 | 2ICAL1 2S040925 ICAL 1 ug/mL SVMS10291 |
| 15) | Sample | 11 | 2ICV1 2S040925 ICV 20 ug/mL SVMS10288 |
| 16) | Sample | 12 | 2ICV2 2S040925 ICV 40 ug/mL SVMS10289 |
| 17) | Sample | 13 | 2IB02 2S040925 Instrument Blank |
| 18) | Sample | 14 | 2SURR01 2S040925 8270 Surr SVMS10299 1:5 |
| 19) | Sample | 15 | 1568474R 2S040925 290646,1568474, |
| 20) | Sample | 16 | 2IB03 2S040925 Instrument Blank |

Sequence Name: C:\INSTARCH\SEQUENCE\2S041025.s
Comment: 8270 14dioxane ical
Operator: ALD
Data Path: C:\INSTARCH\DATA\2S041025\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

ALD
04/17/2025

| Method Sections To Run | Sequence Barcode Options |
|---|---|
| (X) Full Method | (X) On Mismatch, Inject Anyway |
| ( ) Reprocessing Only | ( ) On Mismatch, Don't Inject |
| | ( ) Barcode Disabled |

| Line | | Sample Name/Misc Info | | |
|---|---|---|---|---|
| 1) | Sample | 100 | 2PRIME01 | 2DXN2502 PRIME 10 ug/mL |
| 2) | DFTPP | 1 | 2DFTP354 | 2DFTDIOX DFTPP TUNE SVMS10212 |
| 3) | Sample | 2 | 2IB01 | 2DXN2502 InstrumentBlank |
| 4) | Sample | 3 | 2ICAL7 | 2DXN2502 ICAL 2.5 ug/mL SVMS10180 |
| 5) | Sample | 4 | 2ICAL6 | 2DXN2502 ICAL 2.0 ug/mL SVMS10179 |
| 6) | Sample | 5 | 2ICAL5 | 2DXN2502 ICAL 1.5 ug/mL SVMS10178 |
| 7) | Sample | 6 | 2ICAL4 | 2DXN2502 ICAL 1.0 ug/mL SVMS10177 |
| 8) | Sample | 7 | 2ICAL3 | 2DXN2502 ICAL 0.5 ug/mL SVMS10176 |
| 9) | Sample | 8 | 2ICAL2 | 2DXN2502 ICAL 0.2 ug/mL SVMS10175 |
| 10) | Sample | 9 | 2ICAL1 | 2DXN2502 ICAL 0.1 ug/mL SVMS10174 |
| 11) | Sample | 10 | 2ICV1 | 2DXN2502 ICV 1.0 ug/mL SVMS10181 |
| 12) | Sample | 11 | 2IB02 | 2DXN2502 InstrumentBlank |
| 13) | Sample | 12 | 2MBW01 | 2DXN2502 290043,MBW, |
| 14) | Sample | 13 | 1548345 | 2DXN2502 290043,1548345, |
| 15) | Sample | 14 | 2CCV404 | 2DXN2502 CCV 1.0 ug/mL SVMS10183 |
| 16) | Sample | 100 | 2PRIME02 | 2S040925 PRIME 100ug/mL |
| 17) | DFTPP | 15 | 2DFTP355 | 2DFTPP DFTPP TUNE SVMS10212 |
| 18) | Sample | 16 | 2CCV405 | 2S040925 CCV 20 ug/mL SVMS10298 |
| 19) | Sample | 17 | 2IB03 | 2S040925 Instrument Blank |
| 20) | Sample | 18 | 2LOTCK1 | 2S040925 Methylene chloride lot EK254- |
| 21) | Sample | 19 | 2LOTCK1B | 2S040925 Methylene chloride lot EK254- |
| 22) | Sample | 20 | 2MBS01 | 2S040925 290730,MBS, |
| 23) | Sample | 21 | 2LCSS01 | 2S040925 290730,LCSS, |
| 24) | Sample | 22 | 1568821 | 2S040925 290730,1568821, |
| 25) | Sample | 23 | 1568839 | 2S040925 290730,1568839, |
| 26) | Sample | 24 | 1568828 | 2S040925 290730,1568828, |
| 27) | Sample | 25 | 1568828S | 2S040925 290730,MSS1568828, |
| 28) | Sample | 26 | 1568828D | 2S040925 290730,MSDS1568828, |
| 29) | Sample | 27 | 2IB04 | 2S040925 Instrument Blank |
| 30) | Sample | 28 | 1568823 | 2S040925 290730,1568823, |
| 31) | Sample | 29 | 1568830 | 2S040925 290730,1568830, |
| 32) | Sample | 30 | 1568844 | 2S040925 290730,1568844, |
| 33) | Sample | 31 | 1568836 | 2S040925 290730,1568836, |
| 34) | Sample | 32 | 2IB05 | 2S040925 Instrument Blank |
| 35) | Sample | 33 | 1568843 | 2S040925 290730,1568843, |
| 36) | Sample | 34 | 1568845 | 2S040925 290730,1568845, |
| 37) | Sample | 35 | 1568822 | 2S040925 290730,1568822, |
| 38) | Sample | 36 | 1568846 | 2S040925 290730,1568846, |
| 39) | Sample | 37 | 2IB06 | 2S040925 Instrument Blank |
| 40) | Sample | 38 | 1568838 | 2S040925 290730,1568838,10 |
| 41) | Sample | 39 | 1568842 | 2S040925 290730,1568842,10 |
| 42) | Sample | 40 | 1568841 | 2S040925 290730,1568841,10 |
| 43) | Sample | 41 | 1568834 | 2S040925 290730,1568834,10 |

Sequence Name: C:\INSTARCH\SEQUENCE\2S041025.s

| | Line | Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|---|---|
| 44) | | Sample | 42 | 1568832 | 2S040925 | 290730,1568832,10 |
| 45) | | Sample | 43 | 1568820 | 2S040925 | 290730,1568820,10 |
| 46) | | Sample | 44 | 2IB07 | 2S040925 | Instrument Blank |
| 47) | | Sample | 45 | 2CCV406 | 2S040925 | CCV 20 ug/mL SVMS10298 |
| 48) | | Sample | 46 | 2IB08 | 2S040925 | Instrument Blank |

ALD
04/17/2025

Sequence Name: C:\INSTARCH\SEQUENCE\2S041125.s
Comment: 8270 8270
Operator: JJY
Data Path: C:\INSTARCH\DATA\2S041125\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

ALD
04/17/2025

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

| Line | | | Sample Name/Misc Info | |
|---|---|---|---|---|
| 1) | Sample | 100 | 2PRIME01 | 2S040925 PRIME 100ug/mL |
| 2) | DFTPP | 1 | 2DFTP356 | 2DFTPP DFTPP TUNE SVMS10212 |
| 3) | Sample | 2 | 2CCV407 | 2S040925 CCV 20 ug/mL SVMS10298 |
| 4) | Sample | 3 | 2IB01 | 2S040925 Instrument Blank |
| 5) | Sample | 4 | 1568839D | 2S040925 290730,1568839,2 |
| 6) | Sample | 5 | 1568828X | 2S040925 290730,1568828,5 |
| 7) | Sample | 6 | 1568828Y | 2S040925 290730,MSS1568828,5 |
| 8) | Sample | 7 | 1568828Z | 2S040925 290730,MSDS1568828,5 |
| 9) | Sample | 8 | 2IB02 | 2S040925 Instrument Blank |
| 10) | Sample | 9 | 1568823D | 2S040925 290730,1568823,2 |
| 11) | Sample | 10 | 1568844D | 2S040925 290730,1568844,5 |
| 12) | Sample | 11 | 1568836D | 2S040925 290730,1568836,5 |
| 13) | Sample | 12 | 1568843D | 2S040925 290730,1568843,5 |
| 14) | Sample | 13 | 2IB03 | 2S040925 Instrument Blank |
| 15) | Sample | 14 | 1568845D | 2S040925 290730,1568845,2 |
| 16) | Sample | 15 | 1568822D | 2S040925 290730,1568822,10 |
| 17) | Sample | 16 | 1568846D | 2S040925 290730,1568846,5 |
| 18) | Sample | 17 | 1568838D | 2S040925 290730,1568838,20 |
| 19) | Sample | 18 | 2IB04 | 2S040925 Instrument Blank |
| 20) | Sample | 19 | 1568842D | 2S040925 290730,1568842,50 |
| 21) | Sample | 20 | 1568841D | 2S040925 290730,1568841,50 |
| 22) | Sample | 21 | 1568834D | 2S040925 290730,1568834,50 |
| 23) | Sample | 22 | 1568832D | 2S040925 290730,1568832,50 |
| 24) | Sample | 23 | 1568820D | 2S040925 290730,1568820,50 |
| 25) | Sample | 24 | 1568838R | 2S040925 290730,1568838,50 |
| 26) | Sample | 25 | 2IB05 | 2S040925 Instrument Blank |
| 27) | Sample | 26 | 2CCV408 | 2S040925 CCV 20 ug/mL SVMS10298 |
| 28) | Sample | 27 | 2IB06 | 2S040925 Instrument Blank |

Sequence Name: C:\INSTARCH\SEQUENCE\2S041425.s
Comment: 8270
Operator: JJY
Data Path: C:\INSTARCH\DATA\2S041425\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

ALD
04/17/2025

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

| Line | | | Sample Name/Misc Info |
|---|---|---|---|
| 1) Sample | 100 | 2PRIME01 | 2S040925 PRIME 100ug/mL |
| 2) DFTPP | 1 | 2DFTP357 | 2DFTPP DFTPP TUNE SVMS10212 |
| 3) Sample | 2 | 2CCV409 | 2S040925 CCV 20 ug/mL SVMS10298 |
| 4) Sample | 3 | 2IB01 | 2S040925 Instrument Blank |
| 5) Sample | 4 | 2MBS01 | 2S040925 290787,MBS, |
| 6) Sample | 5 | 2LCSS01 | 2S040925 290787,LCSS, |
| 7) Sample | 6 | 1569987 | 2S040925 290787,1569987, |
| 8) Sample | 7 | 1569983 | 2S040925 290787,1569983, |
| 9) Sample | 8 | 1569983S | 2S040925 290787,MSS1569983, |
| 10) Sample | 9 | 1569983D | 2S040925 290787,MSDS1569983, |
| 11) Sample | 10 | 2IB02 | 2S040925 Instrument Blank |
| 12) Sample | 11 | 1568841R | 2S040925 290730,1568841,100 |
| 13) Sample | 12 | 2IB03 | 2S040925 Instrument Blank |
| 14) Sample | 13 | 2CCV410 | 2S040925 CCV 20 ug/mL SVMS10298 |
| 15) Sample | 14 | 2IB04 | 2S040925 Instrument Blank |

**SVOC_Logbook_06**

Semi-Volatiles Standard Prep Logbook

*Logbook Created: 09/16/2024*

NOTEBOOK VIEW: LTN_SVOC_Logbook_06_Default, NOTEBOOK: SVOC_Logbook_06, PAGE: 16

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Project: Unassigned

Page Title: 123024

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS10212 | DFTPP Tuning Mix | Methylene chloride<br>Honeywell<br>Lot EJ548-US | ALD | 12/30/2024 | 06/30/2025 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4890B | 1000 | µg/mL | 500 | 10 | 50 |
| | | | | | |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS10213 | DFTPP Tuning Mix | Methylene chloride<br>Honeywell<br>Lot EJ548-US | ALD | 12/30/2024 | 06/30/2025 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4890B | 1000 | µg/mL | 250 | 10 | 25 |
| | | | | | |

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**SVOC_Logbook_06**
Semi-Volatiles Standard Prep Logbook
*Logbook Created: 09/16/2024*
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Project: Unassigned
Page Title: 010925

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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS10215 | 8270 Surrogate Standard | Acetone ChemPure lot EH983-US | JJY | 01/09/2025 | 07/09/2025 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4933D | 5000 | ug/mL | 1000 | 250 | 20 |
| S4935D | 10000 | ug/mL | 1000 | 250 | 40 |

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**SVOC_Logbook_06**
Semi-Volatiles Standard Prep Logbook
*Logbook Created: 09/16/2024*
NOTEBOOK VIEW: LTN_SVOC_Logbook_06_Default, NOTEBOOK: SVOC_Logbook_06, PAGE: 26
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Page Title: 031825

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS10270 | 8270 Spike | Acetone ChemPure lot EJ383-US | JJY | 03/18/2025 | 05/31/2025 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S5032 | 2000 | ug/mL | 500 | 50 | 20 |
| S4971E | 2000 | ug/mL | 500 | 50 | 20 |
| S4994G | 1000 | ug/mL | 1000 | 50 | 20 |
| S5037B | 1000 | ug/mL | 1000 | 50 | 20 |
| S5044A | 1000 | ug/mL | 1000 | 50 | 20 |
| | | | | | |

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**SVOC_Logbook_06**
Semi-Volatiles Standard Prep Logbook
*Logbook Created: 09/16/2024*
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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS10287 | 8270 ICV Intermediate Standard | Methylene chloride Honeywell Lot#EJ422-US | ALD | 03/27/2025 | 09/25/2025 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S5068A | 1000 | µg/mL | 1000 | 10 | 100 |
| S5071A | 2000 | µg/mL | 500 | 10 | 100 |
| S5026 | 2000 | µg/mL | 500 | 10 | 100 |
| S5024A | 5000 | µg/mL | 200 | 10 | 100 |
| S4935A | 10000 | µg/mL | 100 | 10 | 100 |
| | | | | | |

| | Initial Calibration | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| | 8270 ICAL Standards | Methylene chloride Honeywell Lot#EJ422-US IS:S5036C | ALD | 03/27/2025 | 09/25/2025 |

| Standard Number | Standard Description | Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|---|---|
| SVMS10288 | ICV 1 | SVMS10287 | 100 | µg/mL | 0.100 | 0.50 | 20 |
| SVMS10289 | ICV 2 | SVMS10287 | 100 | µg/mL | 0.200 | 0.50 | 40 |
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**SVOC_Logbook_06**
Semi-Volatiles Standard Prep Logbook
*Logbook Created: 09/16/2024*
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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS10290 | 8270 ICAL Intermediate Standard | Methylene chloride Honeywell S5078 | JJY | 04/02/2025 | 09/25/2025 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S5067B | 1000 | µg/mL | 1000 | 10 | 100 |
| S5071B | 2000 | µg/mL | 500 | 10 | 100 |
| S5076 | 2000 | µg/mL | 500 | 10 | 100 |
| S5024A | 5000 | µg/mL | 200 | 10 | 100 |
| S4935A | 10000 | µg/mL | 100 | 10 | 100 |
| | | | | | |

Lot 224061265 of Custom Mix was used for ICAL and ICV due to a degradation issue with Lot 224061265. Vendor will be preparing a new lot of Custom Mix and upon receipt a new ICV will be made. ALD 04/02/2025

| | Initial Calibration | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| | 8270 ICAL Standards | Methylene chloride Honeywell S5078 IS5036C | ALD | 04/02/2025 | 09/25/2025 |

| Standard Number | Standard Description | Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|---|---|
| SVMS10291 | ICAL 1 | SVMS10290 | 100 | µg/mL | 0.005 | 0.50 | 1.0 |
| SVMS10292 | ICAL 2 | SVMS10290 | 100 | µg/mL | 0.025 | 0.50 | 5.0 |
| SVMS10293 | ICAL 3 | SVMS10290 | 100 | µg/mL | 0.050 | 0.50 | 10 |
| SVMS10294 | ICAL 4 | SVMS10290 | 100 | µg/mL | 0.100 | 0.50 | 20 |
| SVMS10295 | ICAL 5 | SVMS10290 | 100 | µg/mL | 0.150 | 0.50 | 30 |
| SVMS10296 | ICAL 6 | SVMS10290 | 100 | µg/mL | 0.200 | 0.50 | 40 |
| SVMS10297 | ICAL 7 | SVMS10290 | 100 | µg/mL | 0.250 | 0.50 | 50 |
| SVMS10298 | CCV | SVMS10290 | 100 | µg/mL | 1.00 | 5.0 | 20 |
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CT Laboratories, LLC

**INORGANIC**
**CLP FORMS**
**DOCUMENTS**

CT LABORATORIES
delivering more than data from your environmental analyses

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DUP-1-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 85.1 | Lab Sample ID: | 1568846 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 85.1 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DUP-2-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 85.3 | Lab Sample ID: | 1568832 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 85.3 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-111-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 81.6 | Lab Sample ID: | 1568822 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 81.6 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-111-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 84.6 | Lab Sample ID: | 1568823 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 84.6 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-112-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 85.3 | Lab Sample ID: | 1568820 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 85.3 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-112-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 83.5 | Lab Sample ID: | 1568821 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 83.5 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-113-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 82.8 | Lab Sample ID: | 1568828 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 82.8 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-113-5-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 83.2 | Lab Sample ID: | 1568830 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 83.2 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-114-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 83.0 | Lab Sample ID: | 1568834 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 83.0 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-115-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 72.4 | Lab Sample ID: | 1568836 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 72.4 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-116-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 86.7 | Lab Sample ID: | 1568838 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 86.7 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-117-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 86.7 | Lab Sample ID: | 1568841 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 86.7 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

CT LABORATORIES
delivering more than data from your environmental analyses

1

***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-118-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 77.9 | Lab Sample ID: | 1568839 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 77.9 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1

***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-119-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 76.4 | Lab Sample ID: | 1568842 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 76.4 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-120-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 84.7 | Lab Sample ID: | 1568843 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 84.7 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1

***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-121-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 79.1 | Lab Sample ID: | 1568845 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 79.1 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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1

***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**SB-122-0-DFW**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-DDMT-DFW |
| Matrix (soil/water): | SOIL | SDG No.: | 194024 |
| % Solids: | 88.1 | Lab Sample ID: | 1568844 |
| Analytical Method: | EPA 8000C | Date Received: | 04/04/2025 |
| Dilution Factor: | 1.00 | TCLP (1311) / SPLP (1312) Extraction Date/time: | |
| Analytical Run #: | 290562 | Analysis Date/Time: | 04/08/2025 18:58 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 88.1 | | 0.1 | 0.1 | 0.1 | 0.1 |

Unless noted to the contrary, i.e., no % solids reported, then analytical results for solid matrices are reported on a dry weight basis

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6

***DUPLICATES***

Sample Description

**SB-113-0-DFW**

Lab Name: CT Laboratories
Contract: HDR, INC-DDMT-DFW
Matrix: SOLID
SDG No.: 194024
% Solid for Sample: 82.8
Concentration Units: %
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
Analytical Run #: 290562
ICAL Calibration #:
Sample #: 1571353
Parent Sample #: 1568828

Analysis Type *Initial Analysis*

| Analyte | Analysis Date/Time | RPD Limit | Original Parent Conc. (S) | C | Duplicate Conc. (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|---|
| Solids, Percent | 04/08/2025 18:58 | 8 | 82.8 | | 84.2 | | 2 | | GRAV |

# INORGANICS
# RAW DATA
# DOCUMENTS

# TOTAL SOLIDS (PERCENT) EPA8000D

**LIMS #:** 290562

| **Start Date:** | 04/08/2025 | **Start Time:** | 18:58 | | **Analyst:** | BMP |
|---|---|---|---|---|---|---|
| | **Sample ID#** | **Dish#** | **Tared Weight g** *(D)* | **Wet Weight g** *(E)* | **Dry Weight g** *(F)* | **RESULTS % TOTAL SOLIDS** |
| 1) | 1568820 | L28 | 2.54 | 14.15 | 12.44 | 85.3 |
| 2) | 1568821 | L96 | 2.48 | 15.49 | 13.34 | 83.5 |
| 3) | 1568822 | L70 | 2.50 | 12.72 | 10.84 | 81.6 |
| 4) | 1568823 | L09 | 2.50 | 13.63 | 11.92 | 84.6 |
| 5) | 1568830 | L03 | 2.50 | 14.78 | 12.72 | 83.2 |
| 6) | 1568832 | T121 | 2.52 | 15.39 | 13.50 | 85.3 |
| 7) | 1568834 | T858 | 2.53 | 15.02 | 12.90 | 83.0 |
| 8) | 1568836 | T863 | 2.51 | 13.62 | 10.55 | 72.4 |
| 9) | 1568838 | T866 | 2.53 | 15.64 | 13.89 | 86.7 |
| 10) | 1568839 | T857 | 2.54 | 13.07 | 10.74 | 77.9 |
| 11) | 1568841 | T855 | 2.53 | 13.36 | 11.92 | 86.7 |
| 12) | 1568842 | T864 | 2.52 | 14.91 | 11.98 | 76.4 |
| 13) | 1568843 | L60 | 2.52 | 14.03 | 12.27 | 84.7 |
| 14) | 1568844 | L08 | 2.50 | 15.04 | 13.55 | 88.1 |
| 15) | 1568845 | L07 | 2.50 | 14.07 | 11.65 | 79.1 |
| 16) | 1568846 | L10 | 2.52 | 18.06 | 15.74 | 85.1 |
| 17) | | | | | | 0.0 |
| 18) | | | | | | 0.0 |
| 19) | | | | | | 0.0 |
| *20) | 1568828 | L07 | 2.52 | 13.06 | 11.25 | 82.8 |
| Dup 20) | 1568828 | T452 | 2.56 | 16.41 | 14.22 | 84.2 |

Dry Weight = Sample + Dish (gms)

Wet Weight = Sample + Dish (gms)

*** 2nd Reading,** 11.25

Set RPD: 1.6%

Balance ID: VOB-01

*mg Difference: 0

| | |
|---|---|
| **Oven ID:** | 6 |
| **Stop Date:** | 04/09/2025 |
| **Stop Time:** | 23:39 |

*2nd reading must be within 50mg of the 1st

Calculations

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

**INORGANICS**
**LOGBOOK**
**DOCUMENTS**

# WSOLIDS Analytical Run
# 290562 on 4/9/2025

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 194024 | 1568820 | | 4/1/2025 10:30 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-112-0-DFW | | | | | | | | | |
| 194024 | 1568821 | | 4/1/2025 11:10 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-112-5-DFW | | | | | | | | | |
| 194024 | 1568822 | | 4/1/2025 11:35 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-111-0-DFW | | | | | | | | | |
| 194024 | 1568823 | | 4/1/2025 12:10 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-111-5-DFW | | | | | | | | | |
| 194024 | 1568828 | | 4/1/2025 14:25 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-113-0-DFW | | Designated MS/MSD | | | | | | | |
| 194024 | 1568830 | | 4/1/2025 15:10 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-113-5-DFW | | | | | | | | | |
| 194024 | 1568832 | | 4/1/2025 14:45 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | DUP-2-DFW | | | | | | | | | |
| 194024 | 1568834 | | 4/1/2025 15:25 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-114-0-DFW | | | | | | | | | |
| 194024 | 1568836 | | 4/1/2025 15:35 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-115-0-DFW | | | | | | | | | |
| 194024 | 1568838 | | 4/1/2025 15:45 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-116-0-DFW | | | | | | | | | |
| 194024 | 1568839 | | 4/1/2025 15:55 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-118-0-DFW | | | | | | | | | |
| 194024 | 1568841 | | 4/1/2025 16:00 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-117-0-DFW | | | | | | | | | |
| 194024 | 1568842 | | 4/1/2025 16:05 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-119-0-DFW | | | | | | | | | |
| 194024 | 1568843 | | 4/1/2025 16:10 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-120-0-DFW | | | | | | | | | |
| 194024 | 1568844 | | 4/1/2025 16:20 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-122-0-DFW | | | | | | | | | |
| 194024 | 1568845 | | 4/1/2025 16:25 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | SB-121-0-DFW | | | | | | | | | |
| 194024 | 1568846 | | 4/1/2025 13:10 | | HDR, INC | DDMT-DFW | SOLIDS,PERCENT | | S | 4 | |
| | | DUP-1-DFW | | | | | | | | | |
| | 1571353 | | 4/1/2025 14:25 | | | | SOLIDS,PERCENT | | | | |
| | | SB-113-0-DFW | | DUP 1568828 | | | | 0 | | | |

**18** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

Distribution: C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmp76AD.tmp Page 1 of 1

# FWC26-10 Data Review Checklist

| | | Method: Percent Solids SW846-8000D | | Independent Data Review Checklist | | |
|---|---|---|---|---|---|---|
| **LIMS Run #(s)** | **Analysis Date** | **Analyst / Data Interpreter** | | **Independent Reviewer** | **Date of Review** | **Approved? (Yes or No)** |
| 290561, 290562, 290563, 290564, 290631, | 04/08/2025 | BMP | | RLD | 04/10/2025 | Yes |

**Instructions:** Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the "Comments" section and may require the initiation of a non-conformance report.

| **Requirement** | **Acceptance Criteria** | **Analyst Review** | | **Independent Review** | | **Comments** |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | (Indicate reference to an attachment if necessary) |
| 1. Were samples analyzed within hold time? | 14 days or program/project specific | Yes | | Yes | | |
| 2. Were samples dried overnight? | > 8hours | Yes | | Yes | | |
| 3. Were drying start and stop times recorded? | --- | Yes | | Yes | | |
| 4. Were duplicates analyzed at the appropriate frequency? | 1 per 20 of similar matrix or at program/project specific frequency | Yes | | Yes | | |
| 5. Were the duplicates within acceptable limits? | Within in-house or program/project specific QC limits | | No | | No | Parent sample Y-flagged. |
| 6. Are all samples on the job lists accounted for? | --- | Yes | | Yes | | |
| 7. Were nonconformities (if applicable) documented in the NCR spreadsheet? | | Yes | | Yes | | |

**CHAIN OF CUSTODY,**
**PM CONFIRMATION**
**AND**
**SAMPLE CONDITION FORMS**
**DOCUMENTS**

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# Sample Condition Report

Folder #: 194024

Client: HDR, INC

Project Name: DDMT-DFW

Project Phase:

Coolers: 6750, 6635

Custody Seals Present : **Y**

Seal Intact? **Y**

Ship Method: FEDEX PRIORITY

Adequate Packaging: **Y**

Print Date / Time: 04/04/2025 09:15

Received Date / Time / By: 04/04/2025 10:20 DJL

Log-In Date / Time / By: 04/04/2025 10:37 erc

Project #: PM: ETK

Temperature: 3.4, 4.1 C On Ice: **Y**

COC Present:? **Y** Complete? **Y**

Numbers: DATED AND SIGNED

Tracking Number: 287188770449,"0450

Temp Blank Enclosed? **Y**

Notes: SAMPLES RECEIVED IN GOOD CONDITION ON ICE. 2 CUSTODY SEALS PRESENT AND INTACT ON EACH COOLER, ALL DATED 4/3/25 AND SIGNED.

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **1568820** SB-112-0-DFW | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | | | ( ***SOLIDS*** ) = **1** |
| **1568820** SB-112-0-DFW | | | | |
| | UNPRES GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | | | ( ***UNPRES GL*** ) = **1** |
| **1568820** SB-112-0-DFW | | | | |
| | TERRA CORE LL | 1 | / | VOC |
| | TERRA CORE LL | 1 | / | VOC |
| | TERRA CORE LL | 1 | / | VOC |
| | **Total # of Containers of Type** | | | ( ***TERRA CORE LL*** ) = **3** |
| **1568820** SB-112-0-DFW | | | | |
| | TERRA CORE | 1 | / | VOC TICS |
| | **Total # of Containers of Type** | | | ( ***TERRA CORE*** ) = **1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568821** SB-112-5-DFW | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | | | ( ***SOLIDS*** ) = **1** |
| **1568821** SB-112-5-DFW | | | | |
| | UNPRES GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | | | ( ***UNPRES GL*** ) = **1** |

**1568821** SB-112-5-DFW

| | | | | |
|---|---|---|---|---|
| TERRA CORE LL | 1 | / | | VOC |
| TERRA CORE LL | 1 | / | | VOC |
| TERRA CORE LL | 1 | / | | VOC |
| **Total # of Containers of Type** | | | ( ***TERRA CORE LL*** ) = | **3** |

**1568821** SB-112-5-DFW

| | | | | |
|---|---|---|---|---|
| TERRA CORE | 1 | / | | VOC TICS |
| **Total # of Containers of Type** | | | ( ***TERRA CORE*** ) = | **1** |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**1568822** SB-111-0-DFW

| | | | | |
|---|---|---|---|---|
| SOLIDS | 1 | / | | %SOL |
| **Total # of Containers of Type** | | | ( ***SOLIDS*** ) = | **1** |

**1568822** SB-111-0-DFW

| | | | | |
|---|---|---|---|---|
| UNPRES GL | 1 | / | | 8270 |
| **Total # of Containers of Type** | | | ( ***UNPRES GL*** ) = | **1** |

**1568822** SB-111-0-DFW

| | | | | |
|---|---|---|---|---|
| TERRA CORE LL | 1 | / | | VOC |
| TERRA CORE LL | 1 | / | | VOC |
| TERRA CORE LL | 1 | / | | VOC |
| **Total # of Containers of Type** | | | ( ***TERRA CORE LL*** ) = | **3** |

**1568822** SB-111-0-DFW

| | | | | |
|---|---|---|---|---|
| TERRA CORE | 1 | / | | VOC TICS |
| **Total # of Containers of Type** | | | ( ***TERRA CORE*** ) = | **1** |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**1568823** SB-111-5-DFW

| | | | | |
|---|---|---|---|---|
| SOLIDS | 1 | / | | %SOL |
| **Total # of Containers of Type** | | | ( ***SOLIDS*** ) = | **1** |

**1568823** SB-111-5-DFW

| | | | | |
|---|---|---|---|---|
| UNPRES GL | 1 | / | | 8270 |
| **Total # of Containers of Type** | | | ( ***UNPRES GL*** ) = | **1** |

**1568823** SB-111-5-DFW

| | | | | |
|---|---|---|---|---|
| TERRA CORE LL | 1 | / | | VOC |
| TERRA CORE LL | 1 | / | | VOC |
| TERRA CORE LL | 1 | / | | VOC |
| **Total # of Containers of Type** | | | ( ***TERRA CORE LL*** ) = | **3** |

**1568823** SB-111-5-DFW

| | | | | |
|---|---|---|---|---|
| TERRA CORE | 1 | / | | VOC TICS |
| **Total # of Containers of Type** | | | ( ***TERRA CORE*** ) = | **1** |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**1568824** RB-01-DFW

| | | | | |
|---|---|---|---|---|
| AMBER GL | 1 | N | / N | 8270 |

194024

| | | | | | |
|---|---|---|---|---|---|
| | AMBER GL | 1 | / | 8270 | |
| | | **Total # of Containers of Type** | | ( ***AMBER GL*** ) = | **2** |

**1568824** RB-01-DFW

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC,VOC TICS |
| | VOA HCL | 1 | / | VOC,VOC TICS |
| | VOA HCL | 1 | / | VOC,VOC TICS |
| | **Total # of Containers of Type** | | ( ***VOA HCL*** ) = | **3** |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**1568825** RB-01-DFW

| | | | | | |
|---|---|---|---|---|---|
| | HNO3 | 1 | Y / N | ICP | |
| | **Total # of Containers of Type** | | | ( ***HNO3*** ) = | **1** |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**1568827** TB-01-DFW

| | | | | |
|---|---|---|---|---|
| | TRIP BLANK | 1 | / | VOC,VOC TICS |
| | TRIP BLANK | 1 | / | VOC,VOC TICS |
| | TRIP BLANK | 1 | / | VOC,VOC TICS |
| | **Total # of Containers of Type** | | ( ***TRIP BLANK*** ) = | **3** |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**1568828** SB-113-0-DFW

| | | | | | |
|---|---|---|---|---|---|
| | SOLIDS | 1 | N / N | %SOL | |
| | SOLIDS | 1 | N / N | %SOL | |
| | SOLIDS | 1 | / | %SOL | |
| | **Total # of Containers of Type** | | | ( ***SOLIDS*** ) = | **3** |

**1568828** SB-113-0-DFW

| | | | | | |
|---|---|---|---|---|---|
| | UNPRES GL | 1 | / | 8270 | |
| | UNPRES GL | 1 | N / N | 8270 | |
| | **Total # of Containers of Type** | | | ( ***UNPRES GL*** ) = | **2** |

**1568828** SB-113-0-DFW

| | | | | | |
|---|---|---|---|---|---|
| | UNPRES PL | 1 | N / N | 8270 | |
| | **Total # of Containers of Type** | | | ( ***UNPRES PL*** ) = | **1** |

**1568828** SB-113-0-DFW

| | | | | | |
|---|---|---|---|---|---|
| | TERRA CORE LL | 1 | N / N | VOC | |
| | TERRA CORE LL | 1 | N / N | VOC | |
| | TERRA CORE LL | 1 | N / N | VOC | |
| | TERRA CORE LL | 1 | N / N | VOC | |
| | TERRA CORE LL | 1 | N / N | VOC | |
| | TERRA CORE LL | 1 | N / N | VOC | |
| | TERRA CORE LL | 1 | N / N | VOC | |
| | TERRA CORE LL | 1 | N / N | VOC | |
| | TERRA CORE LL | 1 | / | VOC | |
| | TERRA CORE LL | 1 | / | VOC | |
| | TERRA CORE LL | 1 | / | VOC | |
| | **Total # of Containers of Type** | | | ( ***TERRA CORE LL*** ) = | **11** |

**1568828** SB-113-0-DFW

194024

| | | | | |
|---|---|---|---|---|
| | TERRA CORE | 1 | / | VOC TICS |
| | | **Total # of Containers of Type** | | **( *TERRA CORE* ) = 1** |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **1568829** SB-113-0-DFW | | | | |
| | SOLIDS | 1 | N / N | ICP |
| | SOLIDS | 1 | N / N | ICP |
| | SOLIDS | 1 | / | ICP |
| | | **Total # of Containers of Type** | | **( *SOLIDS* ) = 3** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568830** SB-113-5-DFW | | | | |
| | SOLIDS | 1 | / | %SOL |
| | | **Total # of Containers of Type** | | **( *SOLIDS* ) = 1** |
| **1568830** SB-113-5-DFW | | | | |
| | UNPRES GL | 1 | / | 8270 |
| | | **Total # of Containers of Type** | | **( *UNPRES GL* ) = 1** |
| **1568830** SB-113-5-DFW | | | | |
| | TERRA CORE LL | 1 | / | VOC |
| | TERRA CORE LL | 1 | / | VOC |
| | TERRA CORE LL | 1 | / | VOC |
| | | **Total # of Containers of Type** | | **( *TERRA CORE LL* ) = 3** |
| **1568830** SB-113-5-DFW | | | | |
| | TERRA CORE | 1 | / | VOC TICS |
| | | **Total # of Containers of Type** | | **( *TERRA CORE* ) = 1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568832** DUP-2-DFW | | | | |
| | SOLIDS | 1 | / | %SOL |
| | | **Total # of Containers of Type** | | **( *SOLIDS* ) = 1** |
| **1568832** DUP-2-DFW | | | | |
| | UNPRES GL | 1 | / | 8270 |
| | | **Total # of Containers of Type** | | **( *UNPRES GL* ) = 1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568833** DUP-2-DFW | | | | |
| | SOLIDS | 1 | / | ICP |
| | | **Total # of Containers of Type** | | **( *SOLIDS* ) = 1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568834** SB-114-0-DFW | | | | |
| | SOLIDS | 1 | / | %SOL |
| | | **Total # of Containers of Type** | | **( *SOLIDS* ) = 1** |
| **1568834** SB-114-0-DFW | | | | |
| | UNPRES GL | 1 | / | 8270 |

| | | | | |
|---|---|---|---|---|
| | | **Total # of Containers of Type** | **( *UNPRES GL* ) =** | **1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568835** SB-114-0-DFW | | | | |
| | SOLIDS | 1 | / | ICP |
| | | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568836** SB-115-0-DFW | | | | |
| | SOLIDS | 1 | / | %SOL |
| | | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** |
| **1568836** SB-115-0-DFW | | | | |
| | UNPRES GL | 1 | / | 8270 |
| | | **Total # of Containers of Type** | **( *UNPRES GL* ) =** | **1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568837** SB-115-0-DFW | | | | |
| | SOLIDS | 1 | / | ICP |
| | | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568838** SB-116-0-DFW | | | | |
| | SOLIDS | 1 | / | %SOL |
| | | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** |
| **1568838** SB-116-0-DFW | | | | |
| | UNPRES GL | 1 | / | 8270 |
| | | **Total # of Containers of Type** | **( *UNPRES GL* ) =** | **1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568839** SB-118-0-DFW | | | | |
| | SOLIDS | 1 | / | %SOL |
| | | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** |
| **1568839** SB-118-0-DFW | | | | |
| | UNPRES GL | 1 | / | 8270 |
| | | **Total # of Containers of Type** | **( *UNPRES GL* ) =** | **1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568840** SB-118-0-DFW | | | | |
| | SOLIDS | 1 | / | ICP |
| | | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **1568841** SB-117-0-DFW | | | | |
| | UNPRES GL | 1 | / | 8270 |
| | | **Total # of Containers of Type** | **( *UNPRES GL* ) =** | **1** |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |

**1568842** SB-119-0-DFW

| | | | | |
|---|---|---|---|---|
| | UNPRES GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | | **( *UNPRES GL* ) =** | **1** |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**1568843** SB-120-0-DFW

| | | | | |
|---|---|---|---|---|
| | UNPRES GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | | **( *UNPRES GL* ) =** | **1** |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**1568844** SB-122-0-DFW

| | | | | |
|---|---|---|---|---|
| | UNPRES GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | | **( *UNPRES GL* ) =** | **1** |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**1568845** SB-121-0-DFW

| | | | | |
|---|---|---|---|---|
| | UNPRES GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | | **( *UNPRES GL* ) =** | **1** |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**1568846** DUP-1-DFW

| | | | | |
|---|---|---|---|---|
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | | **( *SOLIDS* ) =** | **1** |

**1568846** DUP-1-DFW

| | | | | |
|---|---|---|---|---|
| | UNPRES GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | | **( *UNPRES GL* ) =** | **1** |

**1568846** DUP-1-DFW

| | | | | |
|---|---|---|---|---|
| | TERRA CORE LL | 1 | / | VOC |
| | TERRA CORE LL | 1 | / | VOC |
| | TERRA CORE LL | 1 | / | VOC |
| | **Total # of Containers of Type** | | **( *TERRA CORE LL* ) =** | **3** |

**1568846** DUP-1-DFW

| | | | | |
|---|---|---|---|---|
| | TERRA CORE | 1 | / | VOC TICS |
| | **Total # of Containers of Type** | | **( *TERRA CORE* ) =** | **1** |

| *Condition Code* | *Condition Description* |
|---|---|
| 1 | Sample Received OK |

194024

Rev. 02/2017

# CHAIN OF CUSTODY



Company: HDR
Project Contact: Clay Morki
Telephone: (530) 902-7106
clay.morki@hdrinc.com
Project Name: DDMT-DFW
Project #:
Location: Memphis, TN
Sampled By: MTP, CSH

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Order #: 194024
Company: HDR, INC
Project: DDMT-DFW
Logged By: erc PM ETK

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO # 10003000002740

Report To: Clay Morki
EMAIL: clay.morki@hdrinc.com
Company: HDR
Address:

Invoice To:*
EMAIL:
Company: SAME AS
Address: Above

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

**Client Special Instructions**
Include 20 TICs

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | VOC 8260 w/20 TICs | SVOC | Pb Cr TCLP | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/1/25 | 1030 | S | Grab | | SB-112-0-DFW | | X | X | | | | 156820 |
| 4/1/25 | 1110 | S | Grab | | SB-112-5-DFW | | X | X | | | | 21 |
| 4/1/25 | 1135 | S | Grab | | SB-111-0-DFW | | X | X | | | | 22 |
| 4/1/25 | 1210 | S | Grab | | SB-111-5-DFW | | X | X | | | | 23 |
| 4/1/25 | 1350 | WW | Grab | | RB-01-DFW | | X | X | X | | | 24,25 |
| 4/1/25 | 1000 | W | Grab | | TB-01-DFW | | X | | | | | 27 |
| 4/1/25 | 1310 | S | Grab | | Dup-1-DFW | | X | X | | | | 46 |
| 4/1/25 | 1425 | S | Grab | | SB-113-0-DFW | | X | X | X | | | 28,29 |
| 4/1/25 | 1425 | S | Grab | | SB-113-0-DFW-MS/MSD | | X | X | X | | | 28,29 |
| 4/1/25 | 1510 | S | Grab | | SB-113-5-DFW | | X | X | | | | 30 |
| 4/1/25 | 1445 | S | Grab | | Dup-2-DFW | | | X | X | | | 32,33 |
| 4/1/25 | 1525 | S | Grab | | SB-114-0-DFW | | | X | X | | | 34,35 |

ANALYSES REQUESTED — Fill in Spaces with Bottles per Test

Turnaround Time
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| | 4/3/25 1500 | | 4/4/25 1020 |
| **Received by:** | **Date/Time** | **Received for Laboratory by:** | **Date/Time** |
| | | | 4/4/25 1017 |

Lab Use Only
Ice Present Yes No
Temp C4-2 IR Gun #2
Cooler # 6615, 6750

Rev. 02/2017

# CHAIN OF CUSTODY



Company: HDR
Project Contact: Clay Morki
Telephone: (630) 920-7406
Clay.MorKi@HDRInc.com
Project Name: DPMT-DFW
Project #:
Location: Memphis, TN
Sampled By: MP, CSM

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:

194024

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #
10003000002740

Report To: Clay Morki
EMAIL: clay.morki@HDRInc.com
Company: HDR
Address:

Invoice To:*
EMAIL:
Company: SAME AS Above
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | VOC 8260 + 20 TICs | SVOC | Pb Cr TCLP | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Fill in Spaces with Bottles per Test | | | | | | | |
| 4/1/25 | 1535 | S | Grab | | SB-115-0-DFW | | X | X | | | | 15688336,37 |
| 4/1/25 | 1545 | S | Grab | | SB-116-0-DFW | | X | | | | | 38 |
| 4/1/25 | 1555 | S | Grab | | SB-118-0-DFW | | X | X | | | | 39,40 |
| 4/1/25 | 1600 | S | Grab | | SB-117-0-DFW | | X | | | | | 41 |
| 4/1/25 | 1605 | S | Grab | | SB-119-0-DFW | | X | | | | | 42 |
| 4/1/25 | 1610 | S | Grab | | SB-120-0-DFW | | X | | | | | 43 |
| 4/1/25 | 1620 | S | Grab | | SB-122-0-DFW | | X | | | | | 44 |
| 4/1/25 | 1625 | S | Grab | | SB-121-0-DFW | | X | | | | | 45 |

Relinquished By: _____ Date/Time 4/5/25 1500
Received by: _____ Date/Time _____

Received By: _____ Date/Time 4/4/25 1020
Received for Laboratory by: _____ Date/Time 4/4/25 1037

Lab Use Only
Ice Present Yes No
Temp 4.2 IR Gun 33
Cooler # 6645, 6750

# Cooler Receipt Form

Ice Present (YES) NO

Observed Temperature 3.4

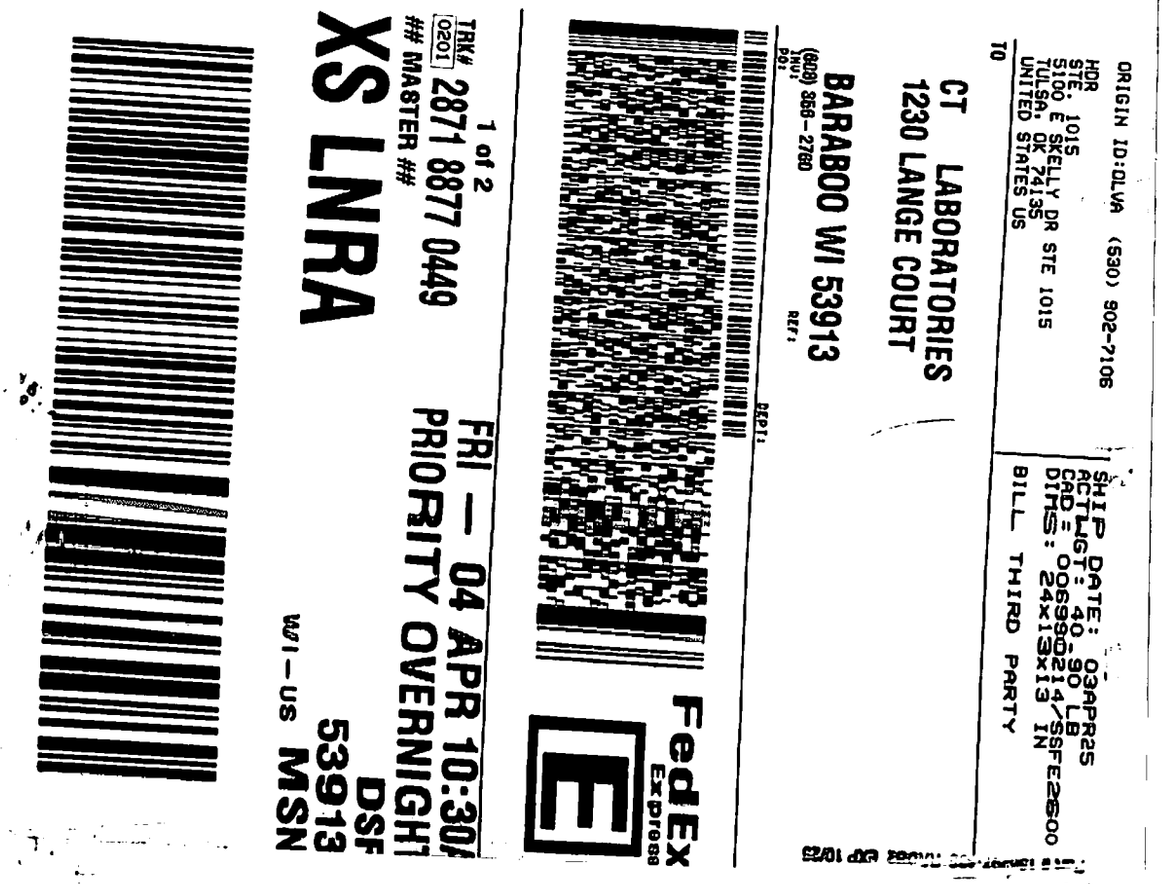
Actual Temperature _____

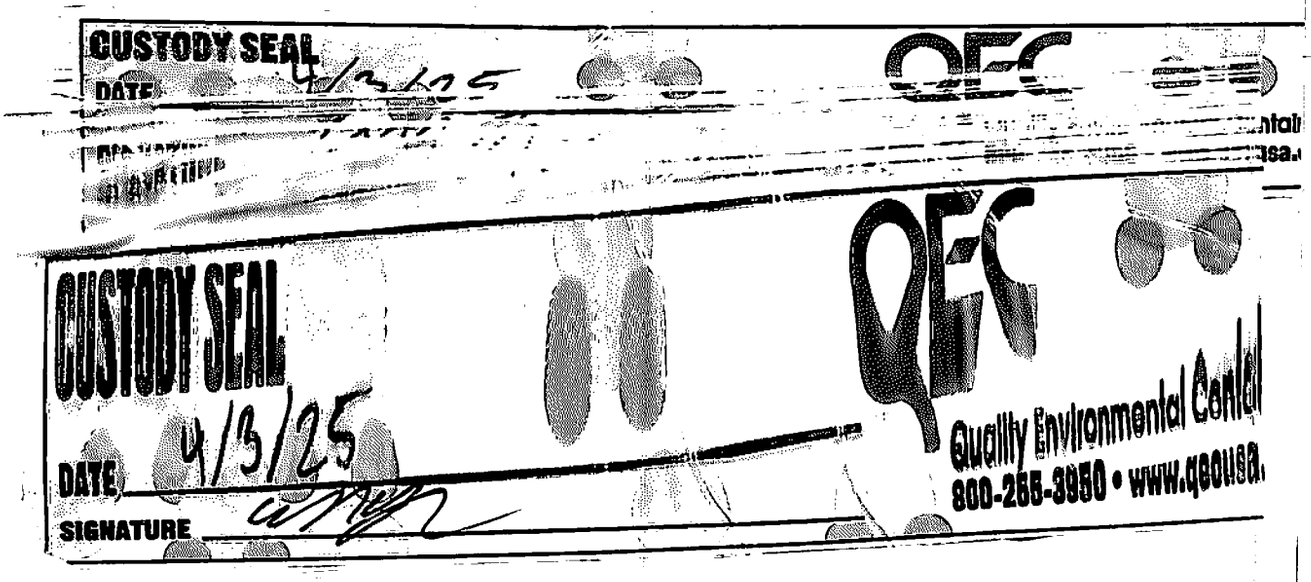
IR Gun # 33

Initials DL

Date 4/9/25 Time 10:20

Cooler #: 6750



# Cooler Receipt Form

Ice Present YES NO

Observed Temperature 4.1

Actual Temperature _____

IR Gun # 33

Initials [illegible]

Date 4/4/25 Time 10:20

Cooler #: 6635

ORIGIN ID:CLVA (530) 902-7106
HDR
STE. 1015
5100 E SKELLY DR STE 1015
TULSA, OK 74135
UNITED STATES US

TO
CT LABORATORIES
1230 LANGE COURT
BARABOO WI 53913
(608) 356-2760
REF:
DEPT:

SHIP DATE: 03APR25
ACTWGT: 41.90 LB
CAD: 0069021/SSFE260C
DIMS: 24x13x13 IN
BILL THIRD PARTY

FedEx Express

2 of 2
MPS# 0263 2871 8877 0450
Mstr# 2871 8877 0449

XS LNRA

FRI - 04 APR 10:30
PRIORITY OVERNIGHT
0201
DSF
53913
WI-US MSN

CUSTODY SEAL
DATE 4/3/25
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

CUSTODY SEAL
DATE 4/3/25
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • www.qecusa.com

## PM Login Confirmation

***Folder #: 194024***

**Contract #:** 3284

**Company:** HDR, INC **Project:** DDMT-DFW **Proj #:**

**Project Phase:** **PO Number:** 1000300002740 **Invoice #:** 194742

**Project Manager:** *ETK* **Date Received:** 04/04/25 **Log Date:** 04/04/2025

Report To: CLAYTON MOKRI CC:
9781 S. MERIDIAN BLVD.
SUITE 400
ENGLEWOOD, CO 80112
Phone: : Fax:
Rep. E-Mail clayton.mokri@hdrinc

Invoice To :ACCOUNTS PAYABLE CC: CLAYTON MOKRI
8404 INDIAN HILLS DR
OMAHA, NE 68114
Phone: Fax:
EMail: invoices@hdrinc.com

Collected By:
Collector's Phone:

Arrival Temperature: 4.1 oC

**SAMPLE #:** 1568820 **DESCR:** SB-112-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 10:30

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 4/16/2025 | | Logged |
| 1090 | VOC TICS | (EPA 8260C) | | | | | 4/16/2025 | | Logged |
| 1100 | VOC 8260 LL TXYL QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |
| 1145 | VOC 8260 LL TDCE QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | 4/7/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | 5/17/2025 | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568821 **DESCR:** SB-112-5-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 11:10

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 4/16/2025 | | Logged |
| 1090 | VOC TICS | (EPA 8260C) | | | | | 4/16/2025 | | Logged |
| 1100 | VOC 8260 LL TXYL QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |

C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmp8491.tmp

**Folder #:** 194024 **Company:** *HDR, INC* **Project:** DDMT-DFW

**SAMPLE #:** 1568821 **DESCR:** SB-112-5-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 11:10

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1145 | VOC 8260 LL TDCE QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | 4/7/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | 5/17/2025 | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568822 **DESCR:** SB-111-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 11:35

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 4/16/2025 | | Logged |
| 1090 | VOC TICS | (EPA 8260C) | | | | | 4/16/2025 | | Logged |
| 1100 | VOC 8260 LL TXYL QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |
| 1145 | VOC 8260 LL TDCE QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | 4/7/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | 5/17/2025 | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568823 **DESCR:** SB-111-5-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 12:10

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 4/16/2025 | | Logged |
| 1090 | VOC TICS | (EPA 8260C) | | | | | 4/16/2025 | | Logged |
| 1100 | VOC 8260 LL TXYL QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |
| 1145 | VOC 8260 LL TDCE QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | 4/7/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | 5/17/2025 | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568824 **DESCR:** RB-01-DFW **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 4/1/2025 **Time:** 13:50

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|

C:\Windows\ServiceProfiles\LocalService\AppData\Local\Temp\tmp8491.tmp

**Folder #:** 194024 **Company:** *HDR, INC* **Project:** DDMT-DFW

**SAMPLE #:** 1568824 **DESCR:** RB-01-DFW **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 4/1/2025 **Time:** 13:50

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1090 | VOC TICS | (EPA 8260C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1100 | VOC 8260 LL TXYL QSM | (EPA 8260C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1145 | VOC 8260 LL TDCE QSM | (EPA 8260C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | 4/15/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568825 **DESCR:** RB-01-DFW **PRIMARY / DETAILED MATRIX:** AQUEOUS / TCLP **SAMPLED:** 4/1/2025 **Time:** 13:50

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1192 | ICP QSM TCLP 5.0 | (EPA 6010C) | | | | 9/28/2025 | 4/16/2025 | | NeedExt |
| | | | Chromium | | | | | | |
| | | | Lead | | | | | | |

**SAMPLE #:** 1568827 **DESCR:** TB-01-DFW **PRIMARY / DETAILED MATRIX:** AQUEOUS / TRIP BLANK **SAMPLED:** 4/1/2025 **Time:** 10:00

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1090 | VOC TICS | (EPA 8260C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1100 | VOC 8260 LL TXYL QSM | (EPA 8260C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1145 | VOC 8260 LL TDCE QSM | (EPA 8260C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | 4/15/2025 | 4/16/2025 | | Logged |

**SAMPLE #:** 1568828 **DESCR:** SB-113-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 14:25

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | ***DESIGNATED MATRIX SPIKE*** | | 4/16/2025 | | Logged |
| 1090 | VOC TICS | (EPA 8260C) | | | ***DESIGNATED MATRIX SPIKE*** | | 4/16/2025 | | Logged |
| 1100 | VOC 8260 LL TXYL QSM | (EPA 8260C) | | | ***DESIGNATED MATRIX SPIKE*** | 4/7/2025 | 4/16/2025 | | Logged |

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**Folder #:** 194024 **Company:** *HDR, INC* **Project:** DDMT-DFW

**SAMPLE #:** 1568828 **DESCR:** SB-113-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 14:25

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1145 | VOC 8260 LL TDCE QSM | (EPA 8260C) | | | ***DESIGNATED MATRIX SPIKE*** | 4/7/2025 | 4/16/2025 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | ***Y*** | ***DESIGNATED MATRIX SPIKE*** | 4/7/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | ***Y*** | ***DESIGNATED MATRIX SPIKE*** | 5/17/2025 | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568829 **DESCR:** SB-113-0-DFW **PRIMARY / DETAILED MATRIX:** AQUEOUS / TCLP **SAMPLED:** 4/1/2025 **Time:** 14:25

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1192 | ICP QSM TCLP 5.0 | (EPA 6010C) | | | ***DESIGNATED MATRIX SPIKE*** | 9/28/2025 | 4/16/2025 | | NeedExt |
| | | | Chromium | | | | | | |
| | | | Lead | | | | | | |

**SAMPLE #:** 1568830 **DESCR:** SB-113-5-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 15:10

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 4/16/2025 | | Logged |
| 1090 | VOC TICS | (EPA 8260C) | | | | | 4/16/2025 | | Logged |
| 1100 | VOC 8260 LL TXYL QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |
| 1145 | VOC 8260 LL TDCE QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | ***Y*** | | 4/7/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | ***Y*** | | 5/17/2025 | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568832 **DESCR:** DUP-2-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 14:45

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | ***Y*** | | | 4/16/2025 | | NeedPrep |

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**Folder #:** 194024 **Company:** *HDR, INC* **Project:** DDMT-DFW

**SAMPLE #:** 1568833 **DESCR:** DUP-2-DFW **PRIMARY / DETAILED MATRIX:** AQUEOUS / TCLP **SAMPLED:** 4/1/2025 **Time:** 14:45

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1192 | ICP QSM TCLP 5.0 | (EPA 6010C) | | | | 9/28/2025 | 4/16/2025 | | NeedExt |
| | | | Chromium | | | | | | |
| | | | Lead | | | | | | |

**SAMPLE #:** 1568834 **DESCR:** SB-114-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 15:25

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568835 **DESCR:** SB-114-0-DFW **PRIMARY / DETAILED MATRIX:** AQUEOUS / TCLP **SAMPLED:** 4/1/2025 **Time:** 15:25

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1192 | ICP QSM TCLP 5.0 | (EPA 6010C) | | | | 9/28/2025 | 4/16/2025 | | NeedExt |
| | | | Chromium | | | | | | |
| | | | Lead | | | | | | |

**SAMPLE #:** 1568836 **DESCR:** SB-115-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 15:35

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568837 **DESCR:** SB-115-0-DFW **PRIMARY / DETAILED MATRIX:** AQUEOUS / TCLP **SAMPLED:** 4/1/2025 **Time:** 15:35

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|

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**Folder #:** 194024 **Company:** *HDR, INC* **Project:** DDMT-DFW

**SAMPLE #:** 1568837 **DESCR:** SB-115-0-DFW **PRIMARY / DETAILED MATRIX:** AQUEOUS / TCLP **SAMPLED:** 4/1/2025 **Time:** 15:35

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1192 | ICP QSM TCLP 5.0 | (EPA 6010C) | | | | 9/28/2025 | 4/16/2025 | | NeedExt |
| | | | Chromium | | | | | | |
| | | | Lead | | | | | | |

**SAMPLE #:** 1568838 **DESCR:** SB-116-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 15:45

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568839 **DESCR:** SB-118-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 15:55

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568840 **DESCR:** SB-118-0-DFW **PRIMARY / DETAILED MATRIX:** AQUEOUS / TCLP **SAMPLED:** 4/1/2025 **Time:** 15:55

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1192 | ICP QSM TCLP 5.0 | (EPA 6010C) | | | | 9/28/2025 | 4/16/2025 | | NeedExt |
| | | | Chromium | | | | | | |
| | | | Lead | | | | | | |

**SAMPLE #:** 1568841 **DESCR:** SB-117-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 16:00

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|

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**Folder #:** 194024 **Company:** *HDR, INC* **Project:** DDMT-DFW

**SAMPLE #:** 1568841 **DESCR:** SB-117-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 16:00

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568842 **DESCR:** SB-119-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 16:05

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568843 **DESCR:** SB-120-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 16:10

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568844 **DESCR:** SB-122-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 16:20

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | | 4/16/2025 | | NeedPrep |

**SAMPLE #:** 1568845 **DESCR:** SB-121-0-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 16:25

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | 4/15/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | | 4/16/2025 | | NeedPrep |

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**Folder #:** 194024 **Company:** *HDR, INC* **Project:** DDMT-DFW

**SAMPLE #:** 1568846 **DESCR:** DUP-1-DFW **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 4/1/2025 **Time:** 13:10

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 4/16/2025 | | Logged |
| 1090 | VOC TICS | (EPA 8260C) | | | | | 4/16/2025 | | Logged |
| 1100 | VOC 8260 LL TXYL QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |
| 1145 | VOC 8260 LL TDCE QSM | (EPA 8260C) | | | | 4/7/2025 | 4/16/2025 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | 4/7/2025 | 4/16/2025 | | Logged |
| 1238 | SVOC 8270 QSM 5 | (EPA 8270D) | | | *Y* | 5/17/2025 | 4/16/2025 | | NeedPrep |

**Invoice Number:** 194742 **Preliminary Invoice Estimate:** $4,615.00

| Item | Matrix | Quantity | Price | Expedited TAT Surcharge | Total |
|---|---|---|---|---|---|
| ICP QSM TCLP 5.0 Chromium | TCLP | 8 | $40.00 | 0.00 | $320.00 |
| ICP QSM TCLP 5.0 Lead | TCLP | 8 | $40.00 | 0.00 | $320.00 |
| SOLIDS,PERCENT | SOIL | 19 | $0.00 | 0.00 | $0.00 |
| SVOC 8270 QSM 5 | GROUND WATER | 1 | $130.00 | 0.00 | $130.00 |
| SVOC 8270 QSM 5 | SOIL | 19 | $130.00 | 0.00 | $2470.00 |
| VOC 8260 LL TDCE QSM | GROUND WATER | 1 | | 0.00 | |
| VOC 8260 LL TDCE QSM | SOIL | 7 | | 0.00 | |
| VOC 8260 LL TDCE QSM | TRIP BLANK | 1 | | 0.00 | |
| VOC 8260 LL TXYL QSM | GROUND WATER | 1 | | 0.00 | |
| VOC 8260 LL TXYL QSM | SOIL | 7 | | 0.00 | |
| VOC 8260 LL TXYL QSM | TRIP BLANK | 1 | | 0.00 | |
| VOC 8260 QSM LL 5.0 | GROUND WATER | 1 | $100.00 | 0.00 | $100.00 |
| VOC 8260 QSM LL 5.0 | SOIL | 9 | $100.00 | 0.00 | $900.00 |
| VOC 8260 QSM LL 5.0 | TRIP BLANK | 1 | $100.00 | 0.00 | $100.00 |
| VOC TICS | GROUND WATER | 1 | $25.00 | 0.00 | $25.00 |
| VOC TICS | SOIL | 9 | $25.00 | 0.00 | $225.00 |
| VOC TICS | TRIP BLANK | 1 | $25.00 | 0.00 | $25.00 |
| Temporary Fuel Surcharge on lab supplies and services (if applicable): | | | | | $0.00 |

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Bottle Information

| Container | # Containers | Tests |
|---|---|---|
| **AMBER GL** | **2** | 8270 |
| **HNO3** | **1** | ICP |
| **SOLIDS** | **21** | %SOL |
| **TERRA CORE** | **7** | VOC TICS |
| **TERRA CORE LL** | **29** | VOC |
| **TRIP BLANK** | **3** | VOC,VOC TICS |
| **UNPRES GL** | **18** | 8270 |
| **UNPRES PL** | **1** | 8270 |
| **VOA HCL** | **3** | VOC,VOC TICS |

# Appendix D

## Data Validation Report

# DATA VALIDATION AND USABILITY REPORT

Volatiles by USEPA SW-846 Method 8260C
Semivolatiles by USEPA SW-846 Method 8270D
Metals (TCLP Pb, Cr) by USEPA SW-846 Methods 1311/6010C

| | |
|---|---|
| **Project:** | Memphis (DDMT) Dunn Field West Soils |
| **Project/Task Number:** | 10410834-002 |
| **Sample Data Package:** | 194024, O24J0276 |
| **Laboratory:** | CT Laboratories, Baraboo, Wisconsin;<br>The Sterling Lab, Des Plaines, Illinois |
| **Sample Matrix:** | Soil |
| **Sampling Dates:** | 01 April 2025; 01 October 2024 |
| **Validation Guidelines:** | -Project Quality Assurance Project Plan (QAPP) (*DDMT Uniform Federal Policy – Quality Assurance Project Plan, Environmental Restoration Support at Former Defense Depot Memphis, Tennessee, Revision 1* [HDR, March 2018]);<br>-United States Environmental Protection Agency (USEPA) *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, 3rd edition (SW-846);<br>-*General Data Validation Guidelines* (United States Department of Defense [DoD] Environmental Data Quality Workgroup [EDQW], October 4, 2023);<br>-*Uniform Federal Policy for Quality Assurance Project Plans, Part 1: UFP-QAPP Manual* (Intergovernmental Data Quality Task Force, 2005);<br>-and professional judgment |
| **Validation Level:** | Steps I (verification), IIa and IIb (validation) per the *UFP-QAPP*; Stages 2BVM (100% of data) and 3VM (10% of data) per the *DoD General Validation Guidelines* |
| **Data Reviewer:** | Lynn K. Lutz, HDR |

| Sample ID | Matrix | Lab ID | VOCs | SVOCs | TCLP Cr, Pb |
|---|---|---|---|---|---|
| SB-109-0-DFW | Soil | O24J0276-12 | | | X |
| SB-112-0-DFW | Soil | 1568820 | X | X | |
| SB-112-5-DFW | Soil | 1568821 | X | X | |
| SB-111-0-DFW | Soil | 1568822 | X | X | |
| SB-111-5-DFW | Soil | 1568823 | X | X | |
| RB-01-DFW | QC Water | 1568824 | X | X | |
| | | 1568825 | | | X |
| TB-01-DFW | QC Water | 1568827 | X | | |
| DUP-1-DFW | Soil | 1568846 | X | X | |
| SB-113-0-DFW | Soil | 1568828 | X | X | |
| | | 1568829 | | | X |
| SB-113-0-DFW-MS | Soil | 1568828 MS | X | X | |
| | | 1568829 MS | | | X |
| SB-113-0-DFW-MSD | Soil | 1568828 MSD | X | X | |
| | | 1568829 MSD | | | X |
| SB-113-5-DFW | Soil | 1568830 | X | X | |
| DUP-2-DFW | Soil | 1568832 | | X | |
| | | 1568833 | | | X |
| SB-114-0-DFW | Soil | 1568834 | | X | |
| | | 1568835 | | | X |
| SB-115-0-DFW | Soil | 1568836 | | X | |
| | | 1568837 | | | X |
| SB-116-0-DFW | Soil | 1568838 | | X | |
| SB-118-0-DFW | Soil | 1568839 | | X | |
| | | 1568840 | | | X |
| SB-117-0-DFW | Soil | 1568841 | | X | |
| SB-119-0-DFW | Soil | 1568842 | | X | |
| SB-120-0-DFW | Soil | 1568843 | | X | |
| SB-122-0-DFW | Soil | 1568844 | | X | |
| SB-121-0-DFW | Soil | 1568845 | | X | |

**SUMMARY**

All laboratory data were acceptable with qualification.

A Level 4 data package was received for VOCs and SVOCs. A Level 2 data package was received for the TCLP metals.

Analytical data consist of TCLP analysis for lead and chromium by Sterling Labs for one soil sample collected in October 2024, and analyses for VOCs, SVOCs and TCLP lead and chromium by CT Laboratories for 17 soil samples collected in January 2025.

**I. SAMPLE RECEIPT / CHAIN OF CUSTODY**

Samples were received at 3.4°C and 4.1°C, within the acceptable temperature range of 0-6°C. No qualification was required.

## II. HOLDING TIMES AND PRESERVATION

*VOCs:* Samples were analyzed within 14 days of collection. No qualification was required.

*SVOCs:* Soil samples were extracted within 14 days of collection. Water samples were extracted within seven days of collection. All samples were analyzed within 40 days of extraction. No qualification was required.

*Metals:* Samples were analyzed within 180 days of collection. No qualification was required.

## III. INSTRUMENT PERFORMANCE

*VOCs:* GC/MS BFB tuning criteria were met. No qualification was required.

*SVOCs:* GC/MS DFTPP tuning criteria were met. Tailing, degradation, and resolution requirements were met. No qualification was required.

*Metals:* Not applicable.

## IV. INSTRUMENT CALIBRATION

### *INITIAL CALIBRATIONS*

*VOCs:* Initial calibration criteria were met. No qualification was required.

*SVOCs:* Initial calibration criteria were met. Three analytes (benzoic acid, 2,4-dinitrophenol, and pentachlorophenol) used a quadratic fit. No qualification was required.

*Metals:* Not included in data package. No issues were noted in the case narrative.

### *SECOND SOURCE STANDARDS*

*VOCs:* All reported analytes had %D values less than 20% except as shown in the table below.

| ICV | Analyte | %D | Qualified Sample | Qualifier |
|---|---|---|---|---|
| Medium level soil 4/7/2024 | Tetrahydrofuran | -23.08% | SB-112-5-DFW | UJ |

*SVOCs:* All analytes had %D values less than 20%. No qualification was required.

*Metals:* Not included in data package. No issues were noted in the case narrative.

### *CONTINUING CALIBRATIONS*

*VOCs:* All analytes had %D values less than 20%. No qualification was required.

*SVOCs:* All results had %D values less than 20% (50% for the closing CCVs) except as shown in the table below.

| CCV ID | Analyte | %D | Samples | Qualifier |
|---|---|---|---|---|
| 4/11/2025 closing | Hexachlorocyclopentadiene | -52% | SB-113-5-DFW<br>SB-111-0-DFW<br>SB-111-5-DFW<br>SB-112-5-DFW<br>SB-113-0-DFW<br>SB-115-0-DFW<br>SB-116-0-DFW<br>SB-117-0-DFW<br>SB-118-0-DFW<br>SB-119-0-DFW<br>SB-120-0-DFW<br>SB-121-0-DFW<br>SB-122-0-DFW<br>DUP-1-DFW | UJ |
| | Benzidine | +61% | | UJ |
| | Benzo(g,h,i)perylene | -56% | | J- |
| 4/11/2025 opening | Benzoic acid | +20.5% | SB-112-0-DFW<br>SB-114-0-DFW<br>DUP-2-DFW | UJ |
| | 2,4-Dinitrophenol | +22.8% | | UJ |
| | Pentachlorophenol | +29.0% | | UJ |
| | 3,3'-Dichlorobenzidine | +27.6% | | UJ |
| 4/14/2025 Opening | Six analytes | >20% | No associated samples | None |
| 4/14/2025 closing | Benzo(g,h,i)perylene | -52% | | |

*Metals:* Not included in data package. No issues were noted in the case narrative.

## V. BLANKS

### *METHOD BLANKS*

*VOCs:* VOCs were not detected in the method blanks. No qualification was required.

*SVOCs:* SVOCs were not detected in the method blanks except as shown in the table below.

| Method Blank ID | Analyte | Concentration | Associated Samples | Concentrations | Qualifier |
|---|---|---|---|---|---|
| Water MB | di-n-Butylphthalate | 0.389 µg/L | RB-01-DFW | 0.86 µg/L | J+ |

*Metals:* Both metals were detected in the method as shown in the table below.

| Method Blank ID | Analyte | MB Concentration | Associated Samples | Sample Concentrations | Qualifier |
|---|---|---|---|---|---|
| TCLP Blank | TCLP Chromium | 0.00192 mg/L | All **except** SB-115-0-DFW and SB-109-0-DFW | 0.0033 to 0.0055 mg/L | J+ |
| | TCLP Lead | 0.0023 mg/L | SB-113-0-DFW | 0.0021 mg/L | J+ |
| | | | SB-118-0-DFW | 0.0092 mg/L | J+ |

***TRIP BLANKS***

*VOCs:* VOCs were not detected in the trip blank.

***RINSE BLANKS***

*VOCs:* VOCs were detected in the rinse blank as shown in the table below.

| Rinse Blank ID | Analyte | RB Concentration (LOQ) | Associated Samples | Sample Concentrations (LOQ) | Qualifier |
|---|---|---|---|---|---|
| RB-01-DFW | Toluene | 0.043 J µg/L (0.10) | SB-111-0-DFW | 1.23 J µg/kg (2.4) | J+ |
| | | | SB-111-5-DFW | 1.75 J µg/kg (2.1) | J+ |
| | | | SB-112-0-DFW | 1.45 J µg/kg (2.2) | J+ |
| | | | SB-113-0-DFW | 1.59 J µg/kg (2.8) | J+ |
| | Naphthalene | 0.043 J µg/L (0.10) | SB-111-5-DFW | 1.34 J µg/kg (2.1) | J+ |
| | | | SB-113-0-DFW | 12.4 J µg/kg (59) | J+ |
| | | | SB-113-5-DFW | 19 J µg/kg (120) | J+ |
| | Tetrahydrofuran | 0.60 J µg/L (2) | All | ND | None |

*SVOCs:* Di-n-butylphthalate and dimethyl phthalate were detected at trace levels in the rinse blanks. These analytes were non-detect in the associated samples and no qualification was required.

*Metals:* Both metals were detected in the rinse as shown in the table below.

| RB ID | Analyte | RB Concentration | Sample | Sample Concentrations | Qualifier |
|---|---|---|---|---|---|
| RB-01-DFW | TCLP Chromium | 0.0055 mg/L | All except SB-115-0-DFW and SB-109-0-DFW | 0.0033 to 0.0055 mg/L | J+ |
| | TCLP Lead | 0.025 mg/L | All except SB-109-0-DFW | 0.00186 to 0.036 mg/L | J+ |

***INITIAL AND CONTINUING CALIBRATION BLANKS (ICB and CCB)***
*VOCs:* The ICBs were non-detect except as shown in the table below.

| Analyte | ICB Concentration | Sample | Sample Concentration | Qualifier |
|---|---|---|---|---|
| Tetrahydrofuran | 0.4991 µg/L | RB-01-DFW | 0.60 J µg/L | J+ |
| Naphthalene | 0.310 µg/L | | 0.062 J µg/L | J+ |

*SVOCs:* The ICBs were non-detect.

*Metals:* Not included in data package. No issues were noted in the case narrative.

**VI. LABORATORY CONTROL SAMPLES (LCS)**
*VOCs:* LCS recoveries were within control limits.

*SVOCs:* LCS recoveries were within control limits except as shown in the table below.

| LCS ID | Analyte | Recovery | Control Limits | Samples | Qualifier |
|---|---|---|---|---|---|
| Water LCS | Benzidine | RPD 166% | RPD 30% | RB-01-DFW | None – ND |
| Soil LCS | Benzidine | 0% | 0-141% | All | UJ |
| | Hexachlorocyclopentadiene | 2% | 35-106% | All | UJ |

*Metals:* LCS recoveries were within control limits.

**VII. SURROGATES**
*VOCs:* Surrogate recoveries were within control limits.

*SVOCs:* Surrogate recoveries were within control limits except as shown in the table below.

| Sample | Surrogate | Recovery | Control Limits | Analytes Qualified | Qualifier |
|---|---|---|---|---|---|
| SB-111-0-DFW | 2-Fluorobiphenyl | 39% | 44-115% | Base-neutrals | UJ or J- |
| | Nitrobenzene-d5 | 34.8% | 37-122% | | |
| | Terphenyl-d14 | 52% | 55-127% | | |
| | 2-Fluorophenol | 34.1% | 35-115% | Phenols | None |
| SB-114-0-DFW | 2-Fluorobiphenyl | 41% | 44-115% | Base-neutrals | UJ or J- |
| | Nitrobenzene-d5 | 34.7% | 37-122% | | |
| | 2-Fluorophenol | 33.7% | 35-115% | Phenols | None |

*Metals:* Not applicable.

**VIII. MATRIX SPIKE / MATRIX SPIKE DUPLICATE (MS/MSD)**
Sample SB-113-0-DFW was designated on the COCs for MS/MSD analysis.

*VOCs:* Results were within control limits except as shown in the table below. Only naphthalene tetrachloroethene, and trichloroethene were reported in the parent sample from the medium-level (methanol extraction) analysis.

| Parent sample | Analyte | Recoveries | Control Limits | Parent sample qualifier |
|---|---|---|---|---|
| SB-113-0-DFW Low-level | 1,1,2,2-Tetrachloroethane | 167%, 158% | 70-124% | None - ND |
| | 1,2,3-Trichloropropane | 173%, 165% | 73-125% | None - ND |
| | 1,2,4-Trimethylbenzene | 143%, 147% | 75-123% | None - ND |
| | 1,2-Dibromo-3-chloropropane (DBCP) | 162%, 164% | 61-132% | None - ND |
| | 1,2-Dibromoethane (EDB) | 126%, 124% | 78-122% | None - ND |
| | 1,3,5-Trimethylbenzene | 136%, 143% | 73-124% | None - ND |
| | 1,3-Dichlorobenzene | OK, 122% | 77-121% | None - ND |
| | 1,4-Dichlorobenzene | OK, 123% | 75-120% | None - ND |
| | 2-Chlorotoluene | 133%, 135% | 72-124% | None - ND |
| | 4-Methyl-2-pentanone (MIBK) | 152%, 144% | 65-135% | None - ND |
| | Bromobenzene | 127%, 132% | 78-121% | None - ND |
| | cis-1,2-Dichloroethene | OK, 130% | 77-123% | J+ |
| | n-Butylbenzene | 134%, 140% | 70-128% | None - ND |
| | n-Propylbenzene | 143%, 151% | 73-125% | None - ND |
| | p-Isopropyltoluene | 139%, 147% | 73-127% | None - ND |
| | sec-Butylbenzene | 140%, 148% | 73-126% | None - ND |
| | tert-Butylbenzene | 133%, 142% | 73-125% | None - ND |
| | Tetrachloroethene | 0%, 0% | 73-128% | J- |
| | Tetrahydrofuran | 153%, 144% | 61-135% | None - ND |
| | Trichloroethene | 0%, 18% | 77-123% | J- |
| | Acrylonitrile | 147%, OK | 65-134% | None – ND |

| Parent sample | Analyte | Recoveries | Control Limits | Parent sample qualifier |
|---|---|---|---|---|
| SB-113-0-DFW Medium-level (MeOH extraction) | Naphthalene | RPD 35% | RPD 30% | J |

*SVOCs:* All results were within control limits except as shown in the table below.

| Parent sample | Analyte | Recoveries | Control Limits | Parent sample qualifier |
|---|---|---|---|---|
| SB-113-0-DFW | 3,3'-Dichlorobenzidine | 5%, 12% | 22-121% | UJ |
| | Aniline | 10%, 8% | 18-87% | UJ |
| | Acenaphthene | 38%, OK | 40-123% | J- |
| | Anthracene | 23%, OK | 47-123% | J- |
| | Benzidine | 0%, 1% | 0-141% | UJ |
| | Benzo(a)anthracene | 0%, 0%<br>RPD 38% | 49-126%<br>RPD 30% | J- |
| | Benzo(b)fluoranthene | RPD 31% | RPD 30% | J |
| | Benzo(g,h,i)perylene | 0%, 0% | 43-134% | J- |
| | Benzo(a)pyrene | 0%, 0%<br>RPD 31% | 45-129%<br>RPD 30% | J- |
| | Chrysene | 0%, 0%<br>RPD 34% | 50-124%<br>RPD 30% | J- |
| | Carbazole | 8%, OK<br>RPD 31% | 50-123%<br>RPD 30% | J- |
| | Dibenz(a,h)anthracene | 22%, 32% | 45-134% | J- |
| | Fluoranthene | RPD 38% | RPD 30% | J |
| | Hexachlorocyclopentadiene | 20%, 27% | 35-106% | UJ |
| | Indeno(1,2,3-c,d)pyrene | 0%, 0% | 45-133% | J- |
| | Phenanthrene | RPD 45% | RPD 30% | J |
| | Pyrene | RPD 36% | RPD 30% | J |

*Metals*: Only MS analysis, not MSD analysis, was performed. All results were within control limits.

## IX. DUPLICATES

### *FIELD DUPLICATES*

Field duplicate samples were collected as identified in the following table.

| Field Duplicate Sample | Parent Sample |
|---|---|
| DUP-1-DFW | SB-113-5-DFW |
| DUP-2-DFW | SB-114-0-DFW |

RPDs were within 30% except as noted below.

*VOCs:* Results were within control limits except as shown in the table below.

| Parent / FD pair | Analyte | Concentrations | RPD | Qualifier |
|---|---|---|---|---|
| SB-113-5-DFW<br>DUP-1-DFW | m,p-Xylenes | 41.6 µg/kg<br>2.59 µg/kg | 176% | J<br>J |
| | o-Xylene | 21.5 µg/kg<br>1.65 µg/kg | 171% | J<br>J |
| | Total Xylenes | 63.1 µg/kg<br>4.24 µg/kg | 174% | J<br>J |
| | Tetrachloroethene | 400 µg/kg<br>198 µg/kg | 68% | J<br>J |

*SVOCs:* Results were within control limits except as shown in the table below.

| Parent / FD pair | Analyte | Concentrations | RPD | Qualifier |
|---|---|---|---|---|
| SB-113-5-DFW<br>DUP-1-DFW | 2-Methylnaphthalene | 274 µg/kg<br>63.9 µg/kg | 124% | J<br>J |
| | Fluoranthene | 655 µg/kg<br>477 µg/kg | 31% | J<br>J |
| | Pyrene | 535 µg/kg<br>361 µg/kg | 39% | J<br>J |

*Metals:* Results were within control limits.

***LABORATORY DUPLICATES***

*Metals:* A lab duplicate analysis was not performed on samples from this project. No qualification was required.

## X. INTERNAL STANDARDS (ISTD)

*VOCs:* All ISTD criteria were met. No qualification was required.

*SVOCs:* All ISTD criteria were met. No qualification was required.

*Metals:* Not applicable.

## XI. POST DIGESTION SPIKE AND DILUTION TEST

Post-digestion spike (PDS) analyses and serial dilution tests are applicable only to metals analysis. PDS results were within the control limits of 75-125% except as noted below. The dilution tests were not applicable unless sample results were greater than 50 times the MDL.

*Metals*: Not included in data package. No issues were noted in the case narrative..

## XII. INTERFERENCE CHECK SAMPLES (ICS)

ICS results were applicable only to metals analysis. Results were within control limits of 80-120% except as noted below.

*Metals:* Not included in data package. No issues were noted in the case narrative..

## XIII. LIMITS OF QUANTITATION (LOQs), LIMITS OF DETECTION (LODs), DETECTION LIMITS (DLs), REPORTING LIMITS (RL) AND DETECTION LIMITS (DLs)

The LOQs should be at or below the project action limits (PALs) as listed in the project Sampling and Analysis Plan (SAP).

*VOCs:* The LOQs were below the PALs listed in the SAP for the primary chlorinated volatile organic compounds (CVOCs) and other VOCs previously detected, except as shown in the table below. Sample SB-112-5-DFW was reported from the medium-level extraction in methanol due to excess sample in the low-level vial which could not be analyzed.

| Sample | Analyte | LOQ µg/kg | LSV µg/kg | FDSV µg/kg | USEPA Industrial Soil Regional Screening Level µg/kg |
|---|---|---|---|---|---|
| SB-112-5-DFW | 1,1,2,2-Tetrachloroethane | 59 | 11.2 | 6.6 | 2700 |
| | 1,1,2-Trichloroethane | 120 | 62.7 | 35.5 | 630 |
| | 1,2-Dichloroethane | 59 | 32.9 | 18.9 | 2000 |
| | Carbon Tetrachloride | 120 | 215 | 108.6 | 2900 |
| | Methylene Chloride | 120 | 30.5 | 16.9 | 320,000 |
| | Tetrachloroethene | 120 | 180.6 | 92 | 39,000 |
| | Trichloroethene | 120 | 182 | 93.2 | 1900 |
| | Vinyl Chloride | 120 | 29.4 | 15 | 1700 |

LSV: Loess Specific Values
FDSV: Fluvial Deposit Specific Values

*SVOCs:* There were no PALs listed in the SAP.

*Metals:* There were no PALs listed in the SAP.

## XIV. SAMPLE RESULTS / TRANSCRIPTION VERIFICATION

Transcription between the data package and the EDDs was verified. Sample results reported between the DL and LOQ were qualified as estimated (J).

*VOCs:* No issues.

*SVOCs:* No issues.

*Metals:* No issues.

## XV. DATA USABILITY

Data were usable as discussed below.

*VOCs:* No data were rejected. Data required minimal qualification. All data are usable as qualified.

*SVOCs:* No data were rejected. Data required minimal qualification. All data are usable as qualified.

*Metals:* No data were rejected. Data required minimal qualification. All data are usable as qualified.