REV. 1

Membrane Interface Probe Survey Report
Dunn Field
Defense Depot Memphis, Tennessee

USEPA I.D. Number TN4210020570

Prepared for:

Department of the Army

Under Contract to:

U.S. Army Corps of Engineers
Mobile District
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Acronyms and Abbreviations

mS/m	milliSiemens per meter
µg/kg	micrograms per kilogram
µV	microvolts
AS	air sparge
bls	below land surface
BRAC	Base Realignment and Closure
CTL	CT Laboratories, LLC
CVOC	chlorinated volatile organic compound
DCE	dichloroethene
DDMT	Defense Depot Memphis, Tennessee
DPT	direct push technology
EC	electrical conductivity
ET&D	excavation, transportation, and disposal
eV	electron volt
FD	field duplicate
LTM	long-term monitoring
LUC	land use control
MCL	maximum contaminant level
MIP	membrane interface probe
MNA	monitored natural attenuation
MS	matrix spike
MSD	matrix spike duplicate
PCE	tetrachloroethene
PID	photoionization detector
QA	quality assurance
QC	quality control
RA	remedial action
RB	equipment rinsate blank
SVE	soil vapor extraction
TB	trip blank
TCE	trichloroethene
TDEC	Tennessee Department of Environment and Conservation
Trinity	Trinity Analysis & Development Corp.
USCS	Unified Soil Classification System
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound
XSD	halogen specific detector
ZVI	zero valent iron

1.0 Introduction

Trinity Analysis & Development Corp. (Trinity) has prepared this Membrane Interface Probe (MIP) Survey Report for Dunn Field at the former Defense Depot Memphis, Tennessee (DDMT) under Contract W9128F-11-D-0029, Task Order CK01 to the U.S. Army Corps of Engineers, Mobile District. The environmental restoration program at DDMT is directed by the Department of the Army, Office of the Assistant Chief of Staff for Installation Management, Base Realignment and Closure (BRAC) Division.

Responses to comments from U.S. Environmental Protection Agency (USEPA) and approval letters from Tennessee Department of Environment and Conservation (TDEC) and USEPA are included in **Appendix A**.

1.1 Site Description and History

DDMT is in southeastern Memphis, Shelby County, Tennessee, approximately five miles east of the Mississippi River and two miles north of Memphis International Airport (**Figure 1**). DDMT originated as a military facility in the early 1940s. It received, warehoused, and distributed supplies common to all United States military services and some civil agencies located primarily in the southeastern United States, Puerto Rico, and Panama. Stocked items included food, clothing, petroleum products, construction materials, and industrial, medical, and general supplies. In 1995, DDMT was placed on the list of the Department of Defense facilities to be closed under BRAC. Storage and distribution of material continued until the facility closed in September 1997.

The property consists of approximately 632 acres and includes the Main Installation and Dunn Field. The Main Installation covers approximately 567 acres and had open storage areas, warehouses, military family housing, and outdoor recreational areas. Dunn Field, which is located across Dunn Avenue from the north-northwest portion of the Main Installation, covers approximately 65 acres and had mineral storage and waste disposal areas. The most extreme northeastern portion of Dunn Field is the study area of this investigation (**Figure 2**).

In October 1992, DDMT was added to the National Priorities List (57 Federal Register 47180 No. 199). Responsibility for environmental restoration at DDMT transferred from the Defense Logistics Agency to the Department of the Army in December 2010. The regulatory oversight agencies are USEPA Region 4 and TDEC.

1.2 Previous Investigation and Reporting Activities

The following decision documents have been completed for the Dunn Field area:

- *Record of Decision for Interim Remedial Action of the Groundwater at Dunn Field (OU-1)* (CH2M Hill, 1996)
- *Dunn Field Record of Decision* (CH2M Hill, 2004)
- *Dunn Field Record of Decision Amendment* (engineering-environmental Management, Inc. [e2M], 2009).

Three remedial actions (RAs) were performed to implement the selected remedies for OU-1, Dunn Field: Disposal Sites RA (excavation, transportation, and disposal [ET&D]); Source Areas RA (soil vapor extraction [SVE], zero valent iron [ZVI] injections, and land use controls [LUCs]; and Off Depot Groundwater RA (air sparge [AS]/SVE, monitored natural attenuation [MNA], and long-term monitoring [LTM]) (HDR, 2016).

The Dunn Field Remedial Investigation (CH2M Hill, 2002) included limited investigation in the Northeast Open Area and no samples were collected in the northeast corner. TDEC has performed several

investigations of possible source areas for chlorinated volatile organic compounds (CVOCs) in groundwater upgradient of Dunn Field, but has not identified a specific release site(s).

Concentrations of CVOCs above maximum contaminant levels (MCLs) in performance and background-NE wells on the north end of Dunn field are considered to result from contaminant migration from an unsuspected, off-site source(s). Concentrations of (1,1-DCE), tetrachloroethene (PCE), and trichloroethene (TCE) above MCLs have been detected at the north end of Dunn Field (MW-07 and MW-08) since 1993. Two wells, MW-129 and MW-130, were installed upgradient of the northeast corner of Dunn Field in 2003 and groundwater concentrations have exceeded MCLs for 1,1-DCE, PCE, and TCE since installation (HDR, 2016). These monitoring wells are identified on **Figure 2**. Contaminant concentrations for 1,1-DCE, PCE, and TCE from the April 2016 sampling event (HDR, Inc., 2017) along with their MCLs are provided in **Table 1**.

Army has considered the groundwater contamination in the northern portion of Dunn Field to result solely from a suspected off-site source(s) for the following reasons:

- CVOCs are present at the highest concentrations in wells upgradient of Dunn Field indicating an off-site source
- One of the primary CVOCs (1,1-DCE) is not present in other groundwater plumes in the western portion of Dunn Field
- Only a few suspected source areas were identified in the Northeast Open Area with only the Dunn Field Northeastern Quadrant Drainage Ditch identified in the northeast corner of Dunn Field (HDR, 2016)

1.3 Purpose

To support the absence of a CVOC source in the NE area of Dunn Field contributing to the off-site groundwater plume, Army elected to conduct a MIP Survey to determine if previously unidentified source areas exist that may be contributing to the persistent groundwater contamination in the monitoring wells (MW-07, MW-08, MW-230). Given the east to west groundwater flow direction, the data will also be used to determine if the groundwater contaminants identified in the northeast portion of Dunn Field originate from an unidentified on-site source or from an off-site source not attributable to past Army operations.

2.0 Membrane Interface Probe Survey

2.1 Background

The approved *Uniform Federal Policy-Quality Assurance Project Plan, Membrane Interface Probe Survey Work Plan, Dunn Field Defense Depot Memphis, Tennessee* (UFP-QAPP, Trinity, 2016) was used to conduct this study. The initial design of the MIP investigation was a software (Visual Sample Plan) generated systematic grid of 60 boring locations within a study area measuring approximately 300 feet by 300 feet (**Figure 3**). MIP survey was performed in the northeast corner of Dunn Field based on the original property boundary. A portion of the property was transferred to the City of Memphis for re-alignment of Hays Road and another portion to a private landowner. The original and current property lines are shown on **Figure 3**. The property owners were notified of the investigation in accordance with the CERCLA covenants incorporated in the property transfer deeds. Utility locate along Hays Road and for Dunn Field was coordinated through Tennessee One Call prior to mobilizing to the site and commencing work.

2.2 Summary of Field Activities

- MIP Survey
- Phase I Confirmation Soil Sampling to quantitate MIP responses
- Phase II Data Gap Soil Sampling to address data gaps from the MIP Survey and Phase I Confirmation Soil Sampling activities

The MIP Survey was performed along with limited confirmation soil sampling from 2 through 9 March 2017. A total of 49 MIP borings were advanced and confirmation soil samples were collected at 16 adjacent locations to quantitate the MIP sensor responses. Due to access restrictions at the time of the MIP Survey, some of the proposed MIP Survey locations were not accessible leaving data gaps in the study area. As a result, Phase II Data Gap soil sampling was performed on 17 and 18 April 2017 and soil samples were collected at 10 locations (2 samples per boring) to address data gaps from the MIP Survey.

2.2.1 Limitations

The vertical limits of this survey were identified in the UFP-QAPP (Worksheet 11 – Data Quality Objectives, Study Area Boundaries and Worksheet 14 – Summary of Project Tasks, MIP Borings, Trinity, 2016) as the lithologic change from the unsaturated loess deposits into the underlying silty sandy clays of the fluvial deposits as indicated by the MIP electrical conductivity (EC) sensor. This lithologic break was considered sufficient due to the nature of the fine-grained soils and organic matter in the loess to retard migration of CVOCs and to act as a long-term source area as indicated in previous investigations for the Source Areas on Dunn Field.

The EC sensor was observed in real-time during probe advancement and the borings terminated when less conductive soils (sands) were observed at target depths or when probe refusal was encountered. The temperature sensor was determined to not be appropriate for identifying the transition as saturated soils of the fluvial deposits were not encountered, and therefore not used in decision making.

The approximate target depths for the study area were determined from lithologic boring logs, well construction diagrams, and groundwater elevations from prior investigations. Boring logs and well construction diagrams for MW-07, MW-08, MW-28, MW-129, MW-130, and MW-230 are provided in **Appendix B**; the location of these wells is shown on **Figure 2**. Fluvial aquifer groundwater elevations and total CVOC concentrations for the study area are shown on **Figure 4**. Consistent with available boring logs, the top of the fluvial deposits is identified as being a silty sandy clay sand with the overlying loess being

low plasticity silty clays or clayey silts. This is consistent with soils described during soil sampling activities conducted during the MIP Survey.

2.2.2 Methodology

A MIP is used to continuously measure total chemical detector response to volatile organic compounds (VOCs) versus depth. The operating principle is based on heating the soil and/or water around a semi-permeable polymer membrane to near 121° Celsius to volatilize VOCs. Once volatilized, the VOCs then partition across the membrane. Nitrogen is used as an inert carrier gas, traveling from a surface supply, through a transfer tube, then sweeping across the membrane surface, ultimately delivering captured VOCs to detectors located back at the surface. The MIP is useful in saturated or unsaturated soils, as water does not pass through the membrane or interfere with function.

Historical groundwater analytical results for VOCs in the area are considered “low level” with regards to MIP operation. To maximize carrier gas flow and therefore VOC mass to the halogen specific detector (XSD), an available flame ionization detector was eliminated from use. This configuration allowed for maximum sensitivity and reliable detection of halogenated VOCs. Prior to advancing the MIP at each location, the operator performed quality assurance (QA)/quality control (QC) checks to ensure the appropriate response and operation of the probe, its components, and the associated analytical equipment.

Primary data collected and reported during this survey includes EC, photoionization detector (PID) data, and XSD data; all versus depth. Secondary data monitored and recorded includes carrier gas flow, line pressure, and probe temperature; all monitored to verify system performance.

MIP data was collected and processed by Columbia Technologies and the MIP tool was advanced using a Geoprobe 7822DT and direct push technology (DPT), operated by McCray Drilling, Inc. Borings were advanced in one-foot increments at a rate of approximately one-half foot per second to total depths ranging from approximately 13 feet bls at lower elevations in the western portion of the study area to 30 feet bls at higher elevations in the eastern portion of the study area. Probe advancement was paused for 45 seconds after each one-foot advancement, to allow the MIP block and membrane to warm up to the appropriate temperature. All borings were backfilled with bentonite chips at the end of each day.

2.3 Data Interpretation and Evaluation

2.3.1 Methods – Geologic Interpretation

The EC detector continuously measures soil properties by transmitting a low level alternating electrical current through the soil between electrically isolated sensor pins of the probe and the probe body. The voltage response of the imposed current to the soil is measured across these same two points and measured in milliSiemens/meter (mS/m). The probe is reasonably accurate in the range of 5 to 400 mS/m. In general, lower conductivity values are characteristic of larger grain soil types (sand) while higher conductivities are characteristic of finer sized particles such as finer sand, silts, and clays. Data is qualitative and relative, and therefore has its limitations. This detector, along with driller input, was used to identify the bottom depth of each boring.

2.3.2 Methods – Distribution of Contaminants

PID data - The PID consists of a special 10.2 electron volt (eV) ultraviolet lamp that emits sufficient energy to ionize most aromatic VOCs and many other molecules with an ionization potential below 10.2 eV. The PID also emits a response for chlorinated compounds containing double-bonded carbons (halogenated ethenes), such as PCE and TCE. Data is qualitative and reported in microvolts (µV).

XSD data - The XSD sensor consists of a ceramic probe, a platinum wire anode, and a platinum bead cathode mounted inside a high temperature reactor. The XSD is sensitive to halogenated VOCs and provides a linear response to the quantity of halogen (i.e., fluorine, chlorine, bromine). Data is qualitative and reported in µV.

2.3.3 Data Overview

Data obtained during the MIP Survey were observed in real-time during field operations. After a boring was completed, the data for that boring was uploaded to a remote server from where it could be observed by interested parties nearly instantaneously. This allowed for all participants to monitor progress and make observations and interpretations as work progressed. Logs were presented in two formats; individual and collective. The individual format presents each individual log on a scale that maximizes the X-scale, emphasizing the inflexion of the data in the log. The collective view uses a common scale for each log of its type (i.e., all PID logs are on the same scale) to provide a means of appropriate comparison. The depth range, or total depth, for any given logging run is a reference to the deepest measurement of the EC log, since the EC detector is located nearest the point of the probe. The membrane interface is located higher up on the probe and therefore can't collect data to the depth indicated as the total depth. Location information for the 49 MIP locations is provided in **Table 2**. Maximum XSD/PID responses by depth for each boring selected for soil sampling are provided in **Table 3** and on **Figure 5**. The complete High Resolution Site Evaluation Report is provided in **Appendix C**.

3.0 Soil Sampling Program

3.1 Phase I Confirmation Soil Sampling

Confirmation soil sampling was performed to obtain analytical results to quantitate the observed MIP responses. MIP responses were categorized as "high, medium, and low" by segregating into equal divisions by the XSD results.

3.1.1 Selection Criteria for Confirmation Sample Locations

Responses from the XSD and PID probes were reviewed. Good correlation between the XSD and PID responses at depth was considered to imply quality data. Results determined to be anomalous (poor depth correlation of maximum detector responses) were adjusted to correspond to the best match. Ultimately sample intervals were chosen by targeting soil intervals that exhibited coordinated peak responses in both the PID and XSD logs. Sample locations, selected depth intervals, and correlated maximum PID and XSD responses are shown on **Table 3**. Sample locations are shown on **Figure 6**. Boring locations and depths for sample collection and variations from the Work Plan (one field duplicate instead of two) were discussed and agreed upon by USEPA and TDEC.

3.1.2 Methodology for Confirmation Sampling

Soil samples were collected from 16 boring locations on 8 and 9 March 2017, boring locations are shown on **Figure 6**. Samples were collected using DPT to advance dual-wall tooling to collect continuous soil samples in acetate sleeves. Once the target interval was captured, the sleeve was opened and the sample was immediately collected using Terra Core® kits and placed in a cooler on ice for preservation. Sample nomenclature included the soil boring number, depth interval, and year/month collected (e.g. DF-SB47-18-1703).

After the sample was collected, the soil core was logged and described by the field geologist using the Unified Soil Classification System (USCS). All borings were backfilled with bentonite chips. Soil boring logs are provided in **Appendix D**.

3.1.3 Analytical Results and Data Evaluation

Phase I soil samples were shipped to CT Laboratories, LLC (CTL), Baraboo Wisconsin under chain-of-custody. Samples were analyzed for VOCs by USEPA Method 8260C and results reported in micrograms per kilogram (µg/kg) dry unit weight. This analysis resulted in a single reported detection of one analyte of concern, PCE, at an estimated concentration (0.792J µg/kg) below the laboratory reporting limit in sample DF-SB38-15-1703. This sample was collected from a depth of 15.3 feet bls at MIP Boring M38. A summary of analytical results is provided as **Table 4** and posted on **Figure 6.** Complete laboratory analytical reports are provided in **Appendix E** and the Data Validation Report is provided in **Appendix F.**

QA/QC samples included two equipment rinsate blanks (RB) (one each day), one matrix spike/matrix spike duplicate (MS/MSD) pair, one field duplicate (FD) sample, and two trip blanks (TBs) (one per cooler). There were no detections of any VOCs of interest reported in the blank samples and all duplicate relative percent differences were within 20 percent. MS/MSD results were within established control limits.

In general, the soil profile was consistent across the site, consisting of 6 to 12 inches of well-developed top soil and up to approximately 25 feet of low to medium plasticity clay, overlying fine silty sand. In many locations across the MIP Survey area, a perched water table was encountered. Depth to the perched water zone typically ranged from 1 to 4 feet bls and the saturated thickness of the zone was generally 4 to 6

feet. The depth to water in the shallow unconfined aquifer is approximately 50 to 60 feet bls and was not encountered during this soil investigation.

3.2 Phase II Data Gap Soil Sampling

To address data gaps in the study area due to access limitations, a Technical Memorandum, *Membrane Interface Probe Survey, Phase II Soil Sampling, Dunn Field - Defense Depot Memphis, Tennessee* (Trinity, 2017) was prepared (provided in **Appendix G**). The plan, presented to and approved by USEPA and TDEC, described the collection of continuous soil samples at ten additional locations with up to two soil samples collected at each location based on field observations. The Phase II soil sampling was performed on 17 and 18 April 2017. Sample locations are identified on **Figure 7** and provided on **Table 5**.

3.2.1 Selection Criteria for Data Gap Sampling Locations

To mitigate the data gap resulting from the uninvestigated areas of the site, ten additional boring locations were proposed. The locations were selected to approximate the density of the borings advanced during the MIP Survey, and to provide adequate coverage of the area not yet investigated.

3.2.2 Methodology for Data Gap Sampling

Soil borings were advanced using DPT and continuous soil cores were collected as the borings were advanced until the underlying sand was reached. A representative sample of soil from each two-foot interval was placed in a glass jar, sealed with aluminum foil, allowed to equilibrate for at least five minutes. Headspace was then screened with a PID to monitor the concentrations of VOCs in the soil. In accordance with the Phase II Technical Memorandum, samples for laboratory analysis were to be collected if field screening detected elevated levels of VOCs. If no VOCs were detected during field screening, two samples were to be collected for laboratory analysis based on a visual inspection of the soil core, nearby MIP results, or other contributing factors.

Once screening was complete and the target intervals determined, a second boring was advanced immediately adjacent to the original. The sleeve was opened and the sample was collected using a Terra Core® kit and placed in a cooler on ice for preservation. Sample nomenclature included the soil boring number, depth interval, and year/month collected (e.g. DF-SB47-18-1703).

Soil characteristics were logged by the field geologist using the USCS. Geographic locations were recorded using a Trimble handheld global positioning system unit capable of sub-foot accuracy. All borings were backfilled with bentonite chips. Soil boring logs are provided in **Appendix D**.

3.2.3 Analytical Results and Data Evaluation

Phase II soil samples were shipped to CTL under chain-of-custody. Samples were analyzed for VOCs by USEPA Method 8260C and results reported in µg/kg dry unit weight. Results for all analytes of interest for all samples were reported as non-detect (**Table 6**).

QA/QC samples included two RBs (one per day), one MS/MSD pair, two FDs, and two TBs (one per cooler). There were no detections for any of the VOCs of interest reported in the blank samples and all duplicate relative percent differences were within 20 percent. MS/MSD results were within established control limits apart from PCE in sample DF-SB58-11-1704, where the Replicate/Duplicate precision was outside acceptance limits (Y qualifier).

The soil profile observed during the Phase II investigation was consistent with the rest of the site, consisting of 6 to 12 inches of well-developed top soil, with a thick section of low to medium plasticity clay overlying fine silty sand. Perched water was encountered during Phase II activities in borings SB58,

SB59, SB60, and SB65 at depths of 1 to 4 feet bls with general thicknesses ranging from 2 to 4 feet. Perched water was not encountered in the remaining borings. The unconfined aquifer was not encountered during this soil investigation. Soil boring logs are provided in **Appendix D**. A cross-section guide is provided as **Figure 8** and cross-sections of the investigated area are provided as **Figure 9** and **Figure 10**. The cross-sections correlate data collected from the MIP Survey (EC) and the soil sampling program to show the general lithology of the investigation area.

4.0 Results and Conclusions

4.1 MIP Survey Results

The MIP Survey resulted in a dense network of data that was interpreted by the MIP operator in the field as inconsequential with regard to detection of VOCs. There were no boring locations where the data indicated elevated levels of contaminants. Soil samples were collected from depth intervals of correlating peaks in the PID and XSD logs targeting a range of responses with the majority of the locations skewed towards the high and middle range responses. Additionally, there was no physical evidence of landfilling, disposal, or former excavation activity observed during the MIP Survey. Soil cores indicated a consistent, natural and undisturbed soil profile.

4.2 Phase I Confirmation Soil Sampling Results

Phase I soil sampling analytical results identified a single estimated detection of PCE (0.792J µg/kg) in sample DF-SB38-15-1703. This sample was collected from a depth of 15.3 feet bls adjacent to MIP location M38. The reported result does not represent attributable source material for groundwater contamination.

4.3 Phase II Data Gap Soil Sampling Results

Phase II soil sampling analytical results did not identify any CVOCs above laboratory detection limits and results for all analytes of interest were reported as non-detect.

4.4 Conclusions

Data collected during this investigation indicate no presence of source materials on current or former Army-owned property which are contributing to elevated CVOC concentrations observed in groundwater in the northeast portion of and upgradient of Dunn Field.

5.0 References

CH2M Hill, 1996. Record of Decision for Interim Remedial Action of the Groundwater at Dunn Field (OU-1) at the Defense Distribution Depot Memphis, Tennessee. January.

CH2M Hill, 2002. Memphis Depot Dunn Field Remedial Investigation Report, Sections 1 through 18, Defense Distribution Center (Memphis). Revision 2. July.

engineering-environmental Management, Inc., 2009. Dunn Field Record of Decision Amendment, Defense Depot Memphis, Tennessee. Revision 3. January.

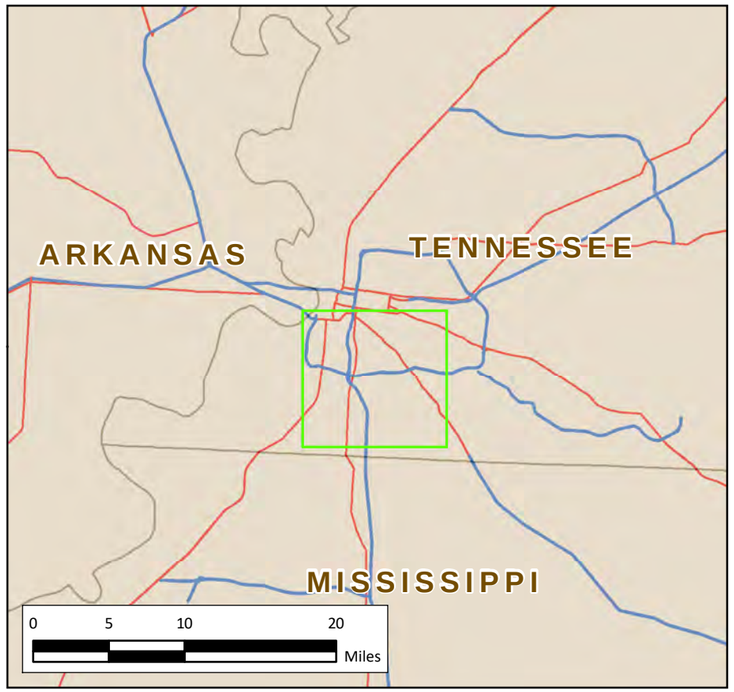
HDR, Inc., 2016. 2017 Site Management Plan, Defense Depot Memphis, Tennessee. Revision 0. December.

HDR Inc., 2017. Annual Long-Term Monitoring Report – 2016 Defense Depot Memphis, Tennessee, Revision 1. October.

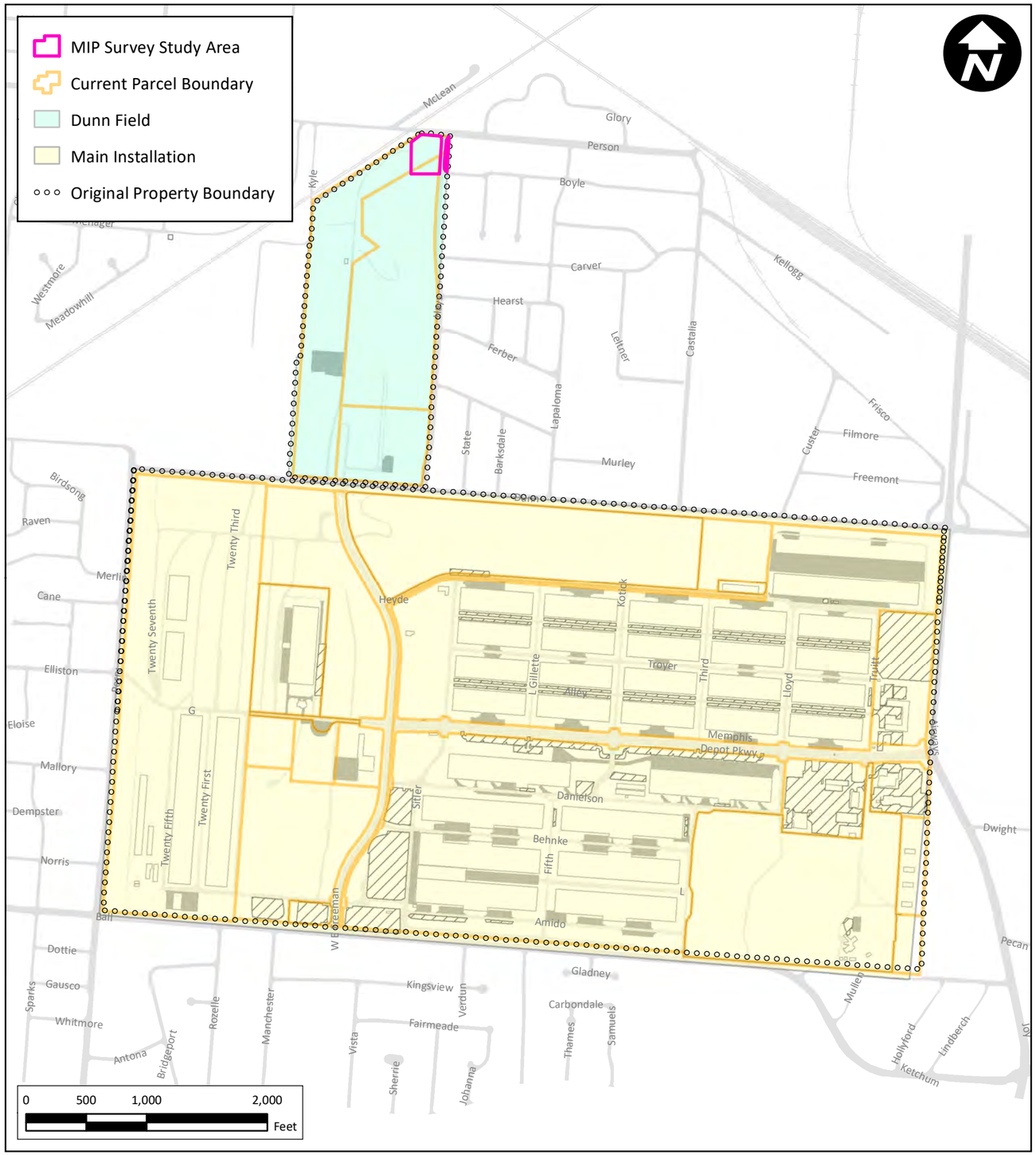
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Trinity Analysis & Development Corp., 2017. Membrane Interface Probe Survey Phase II Soil Sampling Technical Memorandum, Dunn Field Defense Depot Memphis, Tennessee. Revision 0. April.

Figures







Service Layer Credits: TN Department of Transportation

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Figure 1
Site Location

Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

DRAWN BY:	DATE:	SCALE:	PROJECT NO:
JTC	11/01/2017	AS SHOWN	W9128F-11-D-0029 CK01

U.S.ARMY

Figure 2
Site Layout

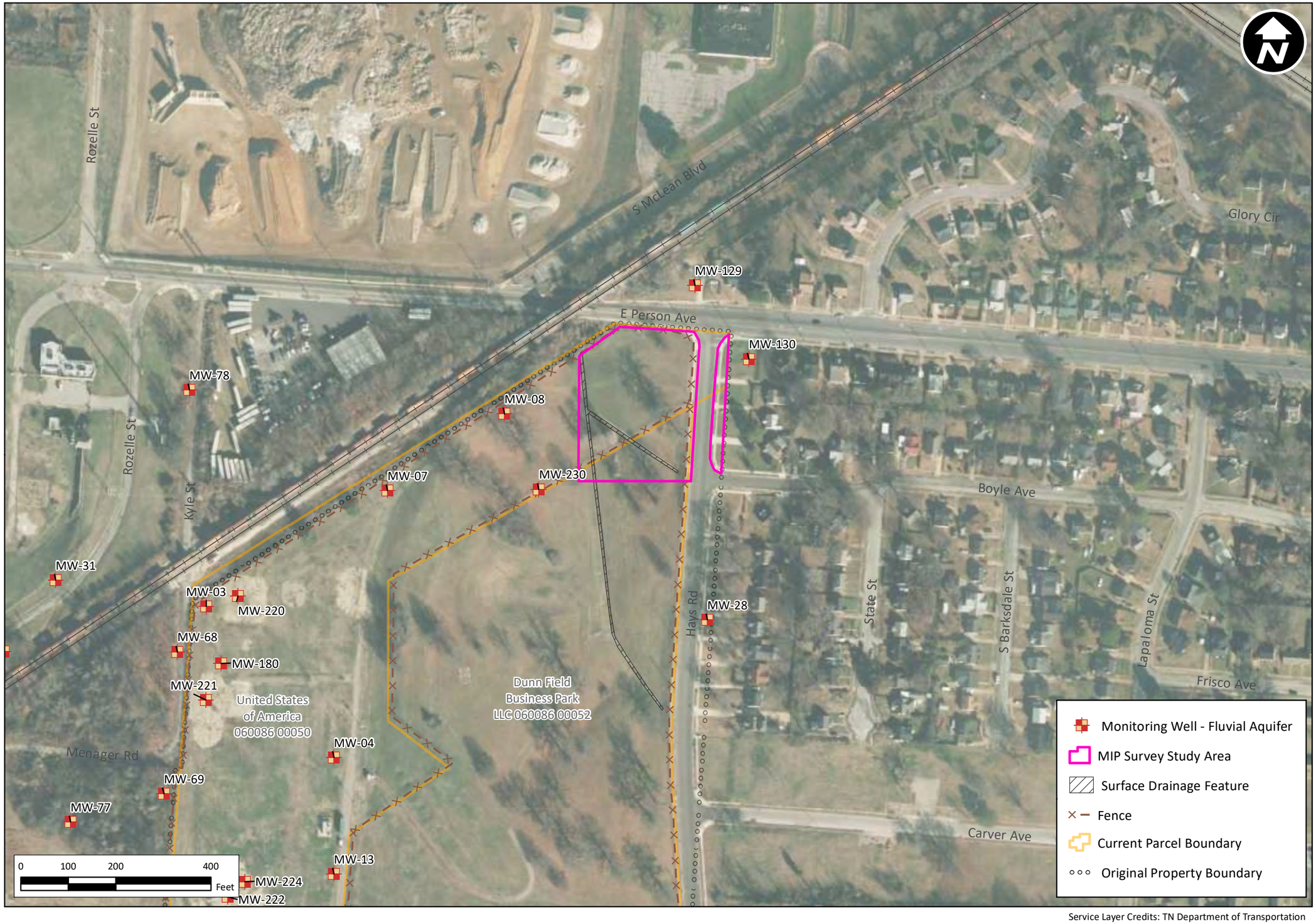
Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

DRAWN BY: JTC

DATE: 11/01/2017

SCALE: AS SHOWN

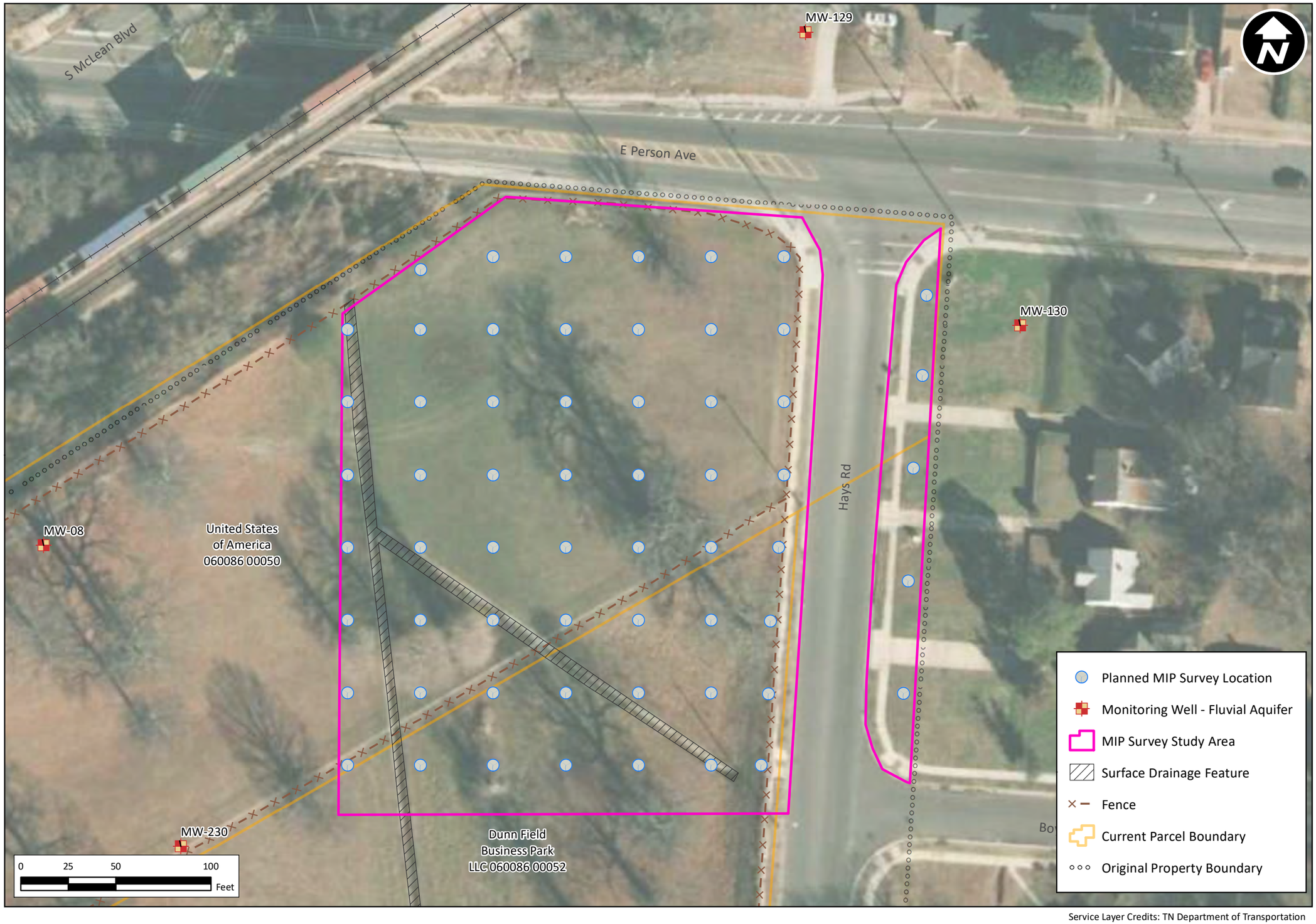
PROJECT NO: W9128F-11-D-0029 CK01



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Figure 3
Planned MIP Survey Locations



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Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

DRAWN BY:	JTC
DATE:	11/01/2017
SCALE:	AS SHOWN
PROJECT NO:	W9128F-11-D-0029 CK01

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Figure 28

Dunn Field Fluvial Aquifer Total CVOC Concentrations, April 2016

Annual Long Term Monitoring Report-2016

Defense Depot Memphis, Tennessee

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

Date: 4/24/2017 Edition: Rev 0

HDR

Legend

Total CVOC Range (ug/L)	Total CVOC Range (ug/L)
0 - 10	10
10 - 50	50
50 - 100	

- Groundwater Flow Direction
- Potentiometric surface of the Fluvial Aquifer 5-ft. contour
- Potentiometric surface of the Fluvial Aquifer 1-ft. contour
- Property Boundary
- Upgradient extent of DF North plume is not defined.
- Air Sparge Area

MW-78

MW-08 18.4

MW-129 31.1

MW-130 79.3

MW-07 94.7

MW-230 85.7

MW-220 44.1

MW-03 14.57

MW-28

235

240

230

Kyle

MIP Survey Study Area

Surface Drainage Feature

0 50 100 200 Feet

Service Layer Credits: Extracted from HDR, 2017

Trinity Analysis & Development Corp.

Figure 4
Dunn Field Total CVOC Concentrations - April 2016

Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

DRAWN BY: JTC

DATE: 11/18/2016

SCALE: NOT TO SCALE

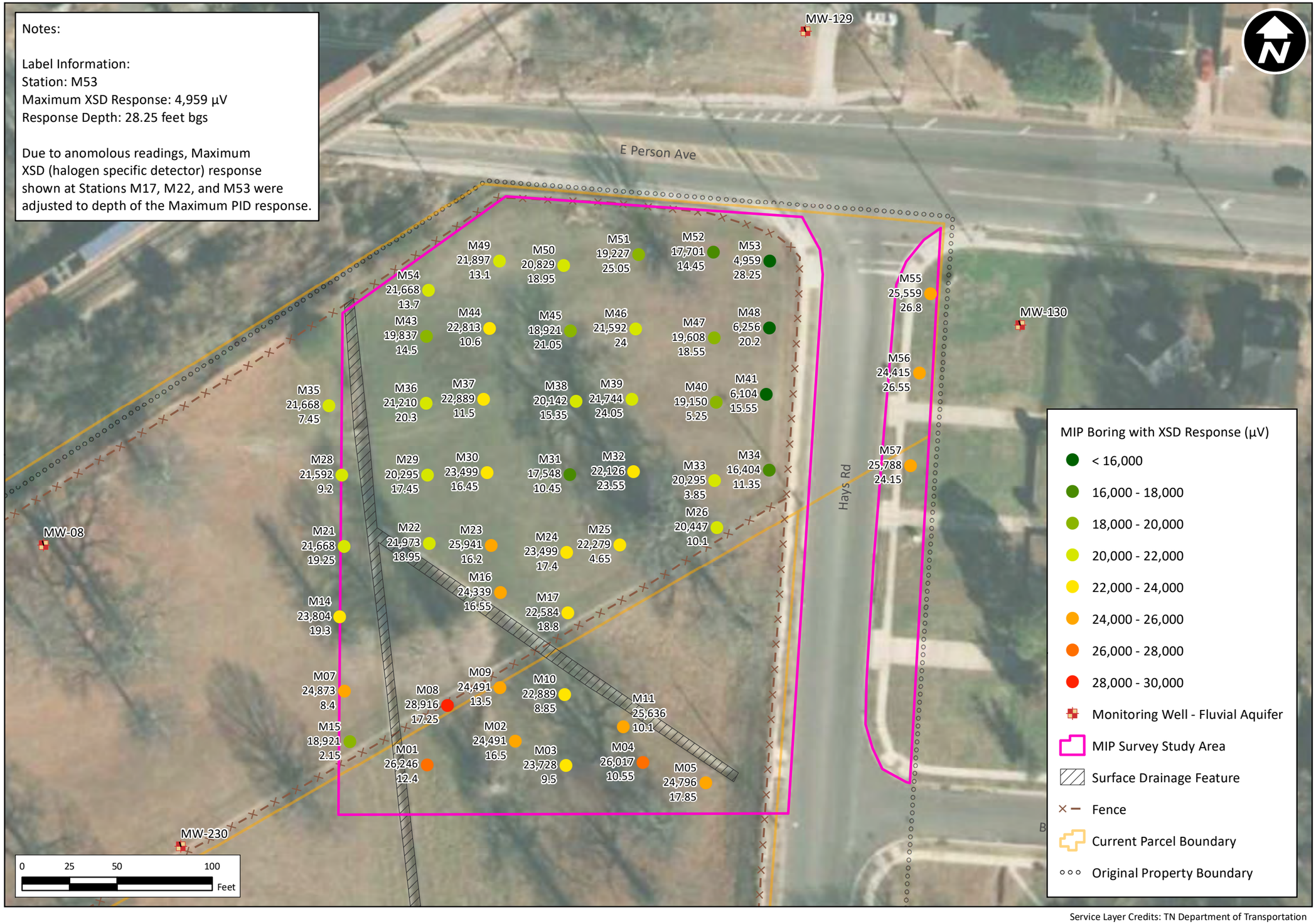
PROJECT NO: W9128F-11-D-0029 CK01

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Notes:

Label Information:
Station: M53
Maximum XSD Response: 4,959 µV
Response Depth: 28.25 feet bgs

Due to anomolous readings, Maximum XSD (halogen specific detector) response shown at Stations M17, M22, and M53 were adjusted to depth of the Maximum PID response.



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Figure 5
MIP Survey Results
Distribution of Maximum XSD Response

Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

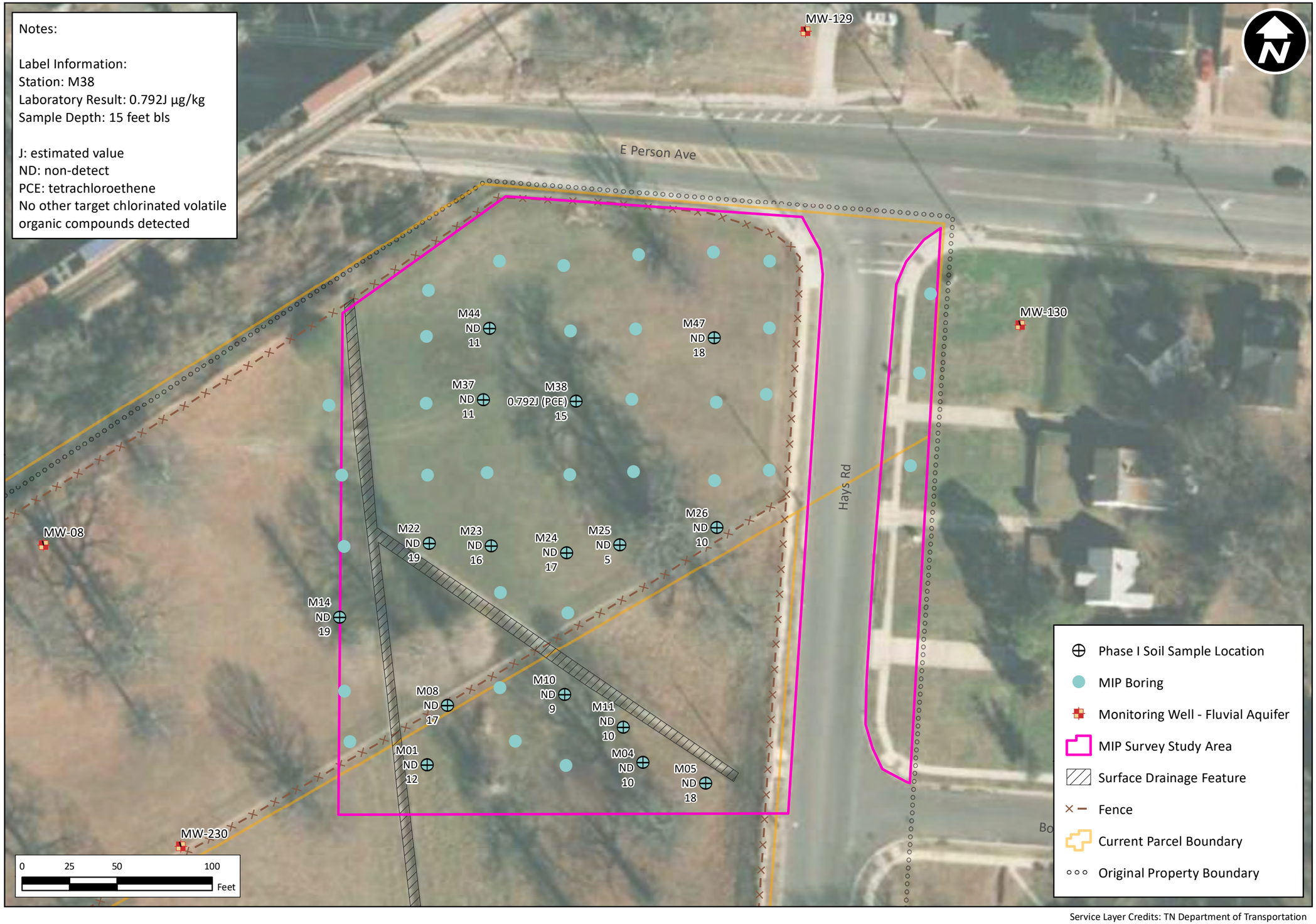
DRAWN BY: JTC
DATE: 11/01/2017
SCALE: AS SHOWN
PROJECT NO: W9128F-11-D-0029 CK01

U.S.ARMY

Notes:

Label Information:
Station: M38
Laboratory Result: 0.792J µg/kg
Sample Depth: 15 feet bls

J: estimated value
ND: non-detect
PCE: tetrachloroethene
No other target chlorinated volatile organic compounds detected



Service Layer Credits: TN Department of Transportation

Trinity Analysis & Development Corp.

Figure 6
Phase I Confirmation Soil Sampling Location and Results

Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

DRAWN BY: JTC
DATE: 11/01/2017
SCALE: AS SHOWN
PROJECT NO: W9128F-11-D-0029 CK01

U.S.ARMY

Notes:

Label Information:
Station: SB60

No target chlorinated volatile organic compounds detected

MW-129
E Person Ave
MW-130
Hays Rd
MW-08
SB60
SB61
SB62
SB63
SB64
SB65
SB66
SB67
SB58
SB59
Concrete Drainage
Concrete Drainage
Area grown over with trees and brush
MW-230
0 25 50 100 Feet

Phase II Data Gap Soil Sample Location
Phase I Confirmation Soil Sample Location
MIP Boring
Monitoring Well - Fluvial Aquifer
MIP Survey Study Area
Surface Drainage Feature
Fence
Current Parcel Boundary
Original Property Boundary

Service Layer Credits: TN Department of Transportation

Trinity Analysis & Development Corp.

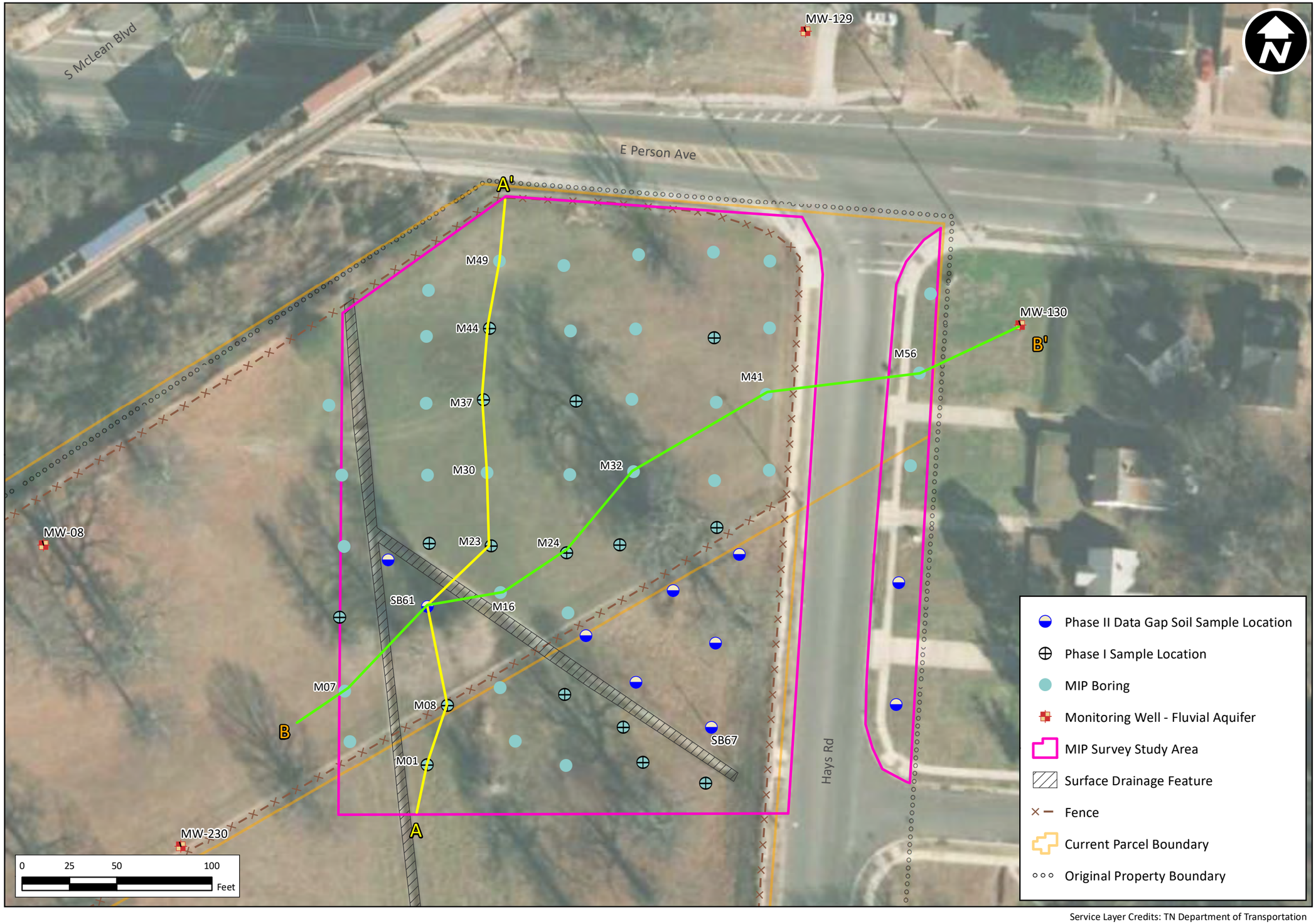
Figure 7
Phase II Data Gap Soil Sampling Locations and Results

Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

DRAWN BY: JTC
DATE: 11/01/2017
SCALE: AS SHOWN
PROJECT NO: W9128F-11-D-0029 CK01

U.S.ARMY

Figure 8
Cross-Section Guide



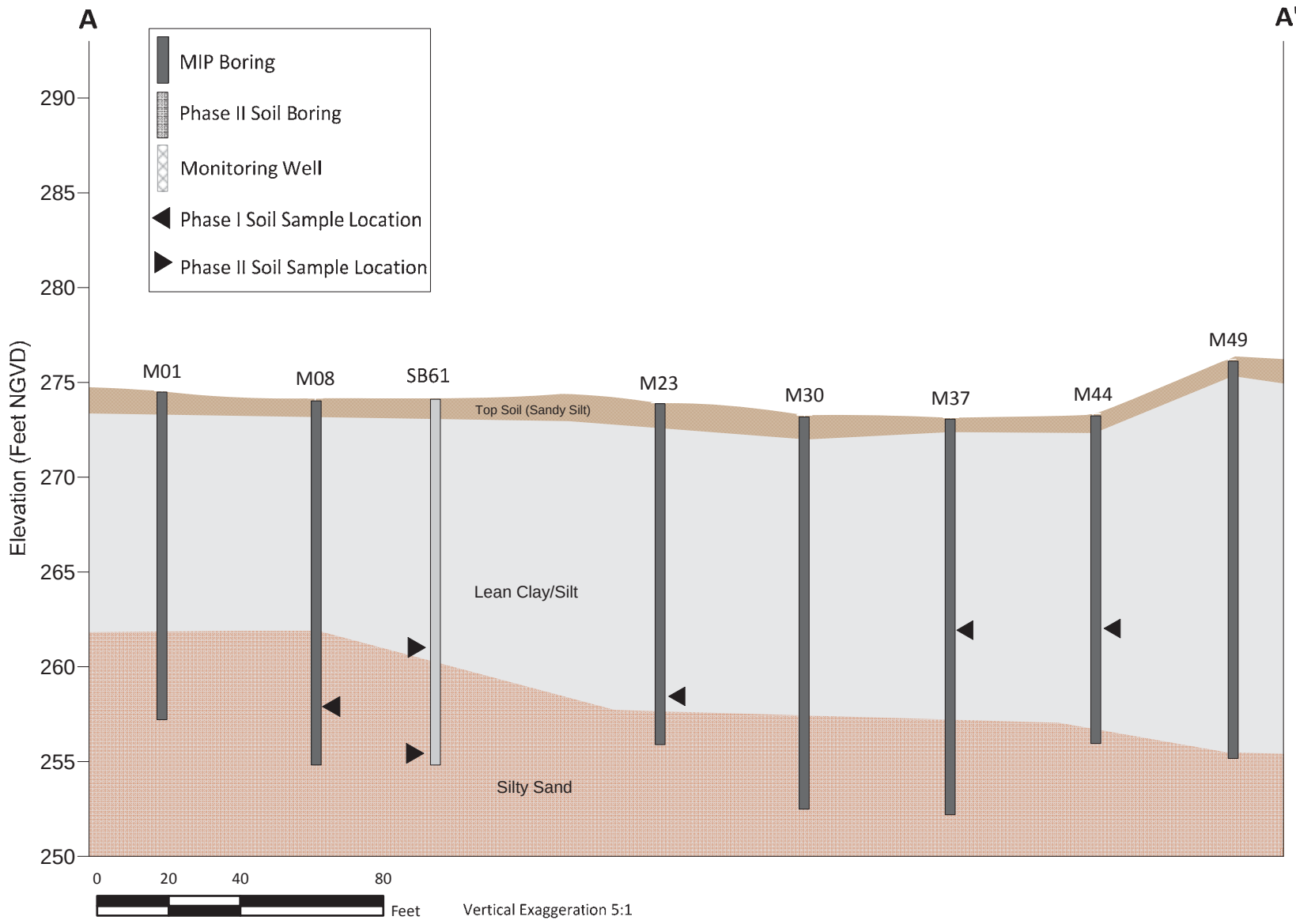
Service Layer Credits: TN Department of Transportation

Trinity Analysis & Development Corp.

Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

DRAWN BY:	JTC
DATE:	11/01/2017
SCALE:	AS SHOWN
PROJECT NO:	W9128F-11-D-0029 CK01

U.S.ARMY

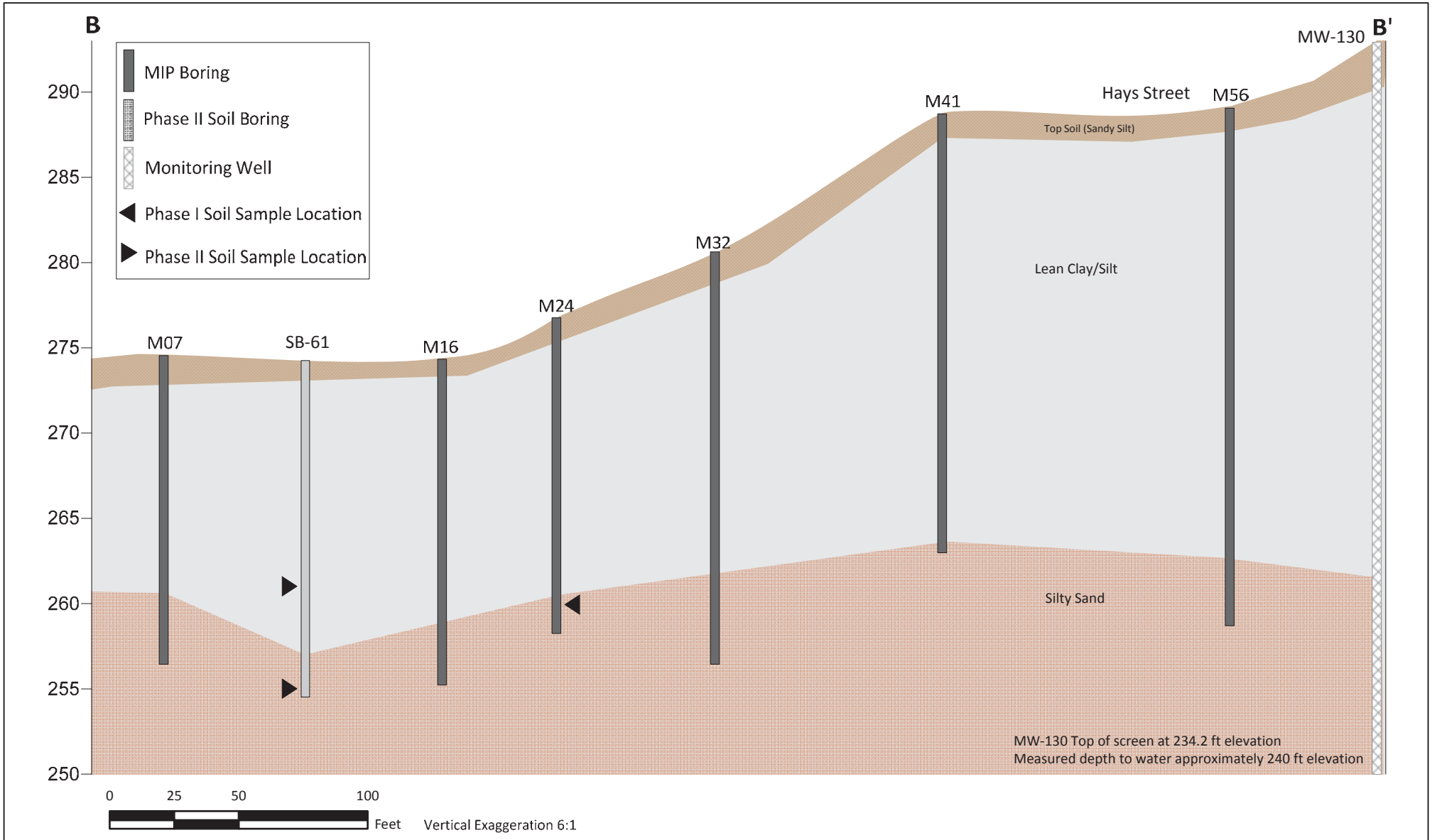


Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
W9128F-11-D-0029 CKO1	AS SHOWN	5/22/2017	TS

Figure 9
Cross Section A-A'

Trinity Analysis & Development Corp.



U.S.ARMY

Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

PROJECT NO:	SCALE:	DATE:	DRAWN BY:
W9128F-11-D-0029 CKO1	AS SHOWN	5/22/2017	TS

Figure 10
Cross Section B-B'

Trinity Analysis & Development Corp.

Tables

Table 1 CVOC Concentrations in Background-NE Monitoring Wells – April 2016

CVOC	MCL	MW-07	MW-08	MW-129	MW-130	MW-230
1,1-DCE	7	15.0	2.59	9.47	9.76	11.1
PCE	5	39.2	5.99	8.61	21.7	34.5
TCE	5	39.8	9.55	13.0	47.0	39.4

All units in micrograms per liter
Maximum concentrations detected in MW-07

Table 2 Summary of MIP Locations

Station	Land Surface Elevation (feet)	Northing (feet)	Easting (feet)	Station	Land Surface Elevation (feet)	Northing (feet)	Easting (feet)	Station	Land Surface Elevation (feet)	Northing (feet)	Easting (feet)
M01	273.92	281,885.68	802,929.53	M24	276.80	281,997.36	803,002.93	M41	288.83	282,080.44	803,108.00
M02	274.53	281,897.94	802,975.90	M25	280.00	282,001.24	803,030.86	M43	273.11	282,110.90	802,929.20
M03	276.09	281,885.28	803,002.51	M26	284.20	282,010.39	803,081.97	M44	273.27	282,115.18	802,962.43
M04	276.90	281,886.99	803,043.04	M28	273.87	282,037.91	802,884.84	M45	276.57	282,113.70	803,005.00
M05	278.51	281,876.10	803,076.04	M29	273.28	282,038.00	802,929.78	M46	280.82	282,114.86	803,039.31
M07	274.61	281,924.27	802,886.17	M30	273.27	282,039.28	802,961.08	M47	286.12	282,110.06	803,080.55
M08	274.17	281,916.95	802,940.28	M31	276.27	282,038.30	803,004.57	M48	288.08	282,115.35	803,109.53
M09	274.24	281,926.20	802,968.00	M32	280.52	282,039.71	803,038.17	M49	276.24	282,150.52	802,967.52
M10	274.91	281,922.67	803,001.93	M33	285.17	282,034.97	803,080.80	M50	278.85	282,148.19	803,001.46
M11	276.38	281,905.65	803,032.80	M34	288.33	282,040.49	803,109.40	M51	284.54	282,154.00	803,040.73
M14	274.66	281,963.42	802,883.59	M35	273.74	282,074.53	802,877.88	M52	284.72	282,155.16	803,080.14
M15	274.71	281,897.82	802,888.87	M36	273.29	282,075.59	802,929.06	M53	286.63	282,150.47	803,109.82
M16	274.41	281,976.32	802,968.01	M37	273.12	282,077.83	802,959.23	M54	273.32	282,134.97	802,930.31
M17	274.84	281,965.65	803,003.57	M38	275.96	282,076.74	803,007.97	M55	289.20	282,133.20	803,194.29
M21	274.16	282,000.45	802,885.84	M39	279.31	282,077.78	803,037.19	M56	287.62	282,091.50	803,188.39
M22	274.13	282,002.18	802,930.75	M40	285.66	282,076.23	803,081.56	M57	286.79	282,043.00	803,183.84
M23	273.89	282,001.01	802,963.28								

Elevation in feet NGVD27
Coordinates in Tennessee State Plane NAD27 (feet)

Table 3 Summary of MIP Responses and Phase I Soil Confirmation Sampling Locations

Station	Land Surface Elevation (feet)	Northing (feet)	Easting (feet)	Max PID (µV)	Max PID Depth (feet)	Max PID Elevation (feet)	Max XSD (µV)	Max XSD Depth (feet)	Max XSD Elevation (feet)	Sample Depth (feet)	Sample Elevation (feet)
M01	273.92	281,885.68	802,929.53	502,792	14.45	259.474	26,246	12.40	261.52	12.4	261.52
M04	276.90	281,886.99	803,043.04	1,370,281	10.55	266.351	26,017	10.55	266.35	10.5	266.40
M05	278.51	281,876.10	803,076.04	1,023,896	17.85	260.661	24,796	17.85	260.66	17.8	260.71
M08	274.17	281,916.95	802,940.28	875,881	17.20	256.97	28,916	17.25	256.92	17.2	256.97
M10	274.91	281,922.67	803,001.93	373,852	8.85	266.062	22,889	8.85	266.06	8.8	266.11
M11	276.38	281,905.65	803,032.80	755,333	10.10	266.279	25,636	10.10	266.28	10.1	266.28
M14	274.66	281,963.42	802,883.59	1,244,392	19.30	255.362	23,804	19.30	255.36	19.3	255.36
M22	274.12	282,002.18	802,930.75	968,200	18.95	255.175	21,973	18.95	255.18	19	255.13
M23	273.89	282,001.01	802,963.28	1,007,111	16.20	257.692	25,941	16.20	257.69	16.2	257.69
M24	276.80	281,997.36	803,002.93	797,296	17.05	259.749	23,499	17.40	259.40	17.4	259.40
M25	280.00	282,001.24	803,030.86	722,526	4.50	275.496	22,279	4.65	275.35	4.6	275.40
M26	284.20	282,010.39	803,081.97	1,689,200	10.05	274.147	20,447	10.10	274.10	10.1	274.10
M37	273.12	282,077.83	802,959.23	777,459	11.25	261.873	22,889	11.50	261.62	11.5	261.62
M38	275.96	282,076.74	803,007.97	860,622	15.30	260.657	20,142	15.35	260.61	15.3	260.66
M44	273.27	282,115.18	802,962.43	439,467	12.25	261.022	22,813	10.60	262.67	10.6	262.67
M47	286.12	282,110.06	803,080.55	1,076,540	18.00	268.122	19,608	18.55	267.57	18.5	267.62

Depths in feet bls
Elevation in feet NGVD27
Coordinates in Tennessee State Plane NAD27 (feet)

Table 4 Summary of Phase I Confirmation Soil Sampling Results

		1,1,2,2-tetrachloroethane		1,1,2-trichloroethane		1,1-dichloroethene		1,2-dichloroethane		carbon tetrachloride		chloroform		cis-1,2-dichloroethene		tetrachloroethene		trans-1,2-dichloroethene		trichloroethene		vinyl chloride	
Sample Number	**Date**	**Result (µg/kg) / Qualifier**																					
DF-SB01-12-1703	3/9/2017	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
DF-SB04-10-1703	3/9/2017	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
DF-SB05-18-1703	3/9/2017	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U	0.79	U
DF-SB08-17-1703	3/9/2017	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U
DF-SB10-09-1703	3/9/2017	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
DF-SB11-10-1703	3/9/2017	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
DF-SB14-19-1703	3/9/2017	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
DF-SB22-19-1703	3/9/2017	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U	0.98	U
DF-SB23-16-1703	3/9/2017	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
DF-SB24-17-1703	3/9/2017	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U
DF-SB25-05-1703	3/9/2017	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
DF-SB26-10-1703	3/9/2017	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U
DF-SB37-11-1703	3/8/2017	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U
DF-SB38-15-1703	3/8/2017	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.792	J	0.99	U	0.99	U	0.99	U
DF-SB44-11-1703	3/8/2017	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U	0.96	U
DF-SB47-18-1703	3/8/2017	1	U	1	UM	1	UM	1	U	1	U	1	UM	1	UM	1	U	1	UM	1	UM	1	U

Sample number corresponds to MIP Station Number (SB01 = M01)

J = indicates an estimated value

M = Matrix Spike and/or Matrix Spike Duplicate recovery outside accepted limits during test period

U = Analyte concentration was below the detection limit

Table 5 Summary of Phase II Data Gap Soil Sampling Locations

Station	Northing (feet)	Easting (feet)	Sample 1 Depth (feet)	Sample 2 Depth (feet)
SB58	281,981.32	803,177.55	11	23
SB59	281,917.50	803,176.34	16	20
SB60	281,993.38	802,909.12	16	19
SB61	281,968.99	802,929.80	13	20
SB62	281,953.69	803,013.17	10	16
SB63	281,929.03	803,039.36	7	15
SB64	281,977.34	803,058.92	13	18
SB65	281,996.32	803,093.68	5	19
SB66	281,949.69	803,081.21	12	19
SB67	281,905.51	803,079.03	3	10

Depths in feet below land surface

Coordinates in Tennessee State Plane NAD27 (feet)

Table 6 Summary of Phase II Data Gap Soil Sampling Results

		1,1,2,2-tetrachloroethane		1,1,2-trichloroethane		1,1-dichloroethene		1,2-dichloroethane		carbon tetrachloride		chloroform		cis-1,2-dichloroethene		tetrachloroethene		trans-1,2-dichloroethene		trichloroethene		vinyl chloride	
Sample Number	**Date**	**Result (µg/kg) / Qualifier**																					
DF-SB58-11-1704	04/17/2017	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	UY	1	U	1	U	1	U
DF-SB58-23-1704	04/17/2017	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U
DF-SB59-16-1704	04/17/2017	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U
DF-SB59-20-1704	04/17/2017	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U
DF-SB60-16-1704	04/17/2017	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U	0.88	U
DF-SB60-19-1704	04/17/2017	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U	0.82	U
DF-SB61-13-1704	04/17/2017	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
DF-SB61-20-1704	04/17/2017	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U
DF-SB62-10-1704	04/18/2017	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U
DF-SB62-16-1704	04/18/2017	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U	0.85	U
DF-SB63-07-1704	04/18/2017	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U	0.97	U
DF-SB63-15-1704	04/18/2017	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U
DF-SB64-13-1704	04/18/2017	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
DF-SB64-18-1704	04/18/2017	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
DF-SB65-05-1704	04/18/2017	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
DF-SB65-19-1704	04/18/2017	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
DF-SB66-12-1704	04/18/2017	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
DF-SB66-19-1704	04/18/2017	0.93	U	0.93	U	0.93	U	0.93	U	0.93	U	0.93	U	0.93	U	0.93	U	0.93	U	0.93	U	0.93	U
DF-SB67-03-1704	04/18/2017	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
DF-SB67-10-1704	04/18/2017	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U	0.99	U

U = Analyte concentration was below the detection limit

Y = Replicate/Duplicate precision outside acceptance limits

Appendices

Appendix A Responses to USEPA and TDEC Comments

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

October 11, 2017

FED-EX
RETURN RECEIPT REQUESTED

Mr. James Foster
Assistant Chief of Staff for Installation Management
Base Realignment and Closure Division (ACSIM-ODB)
2530 Crystal Drive (Taylor Building), Room 5000
Arlington, VA 22202-3940

Dear Mr. Foster:

The U.S. Environmental Protection Agency (EPA) has received and reviewed the Department of the U.S. Army, Defense Depot of Memphis Depot Membrane Interface Probe Survey Report, dated July, 2017.

EPA cannot provide approval for the above referenced report until the comments attached have been addressed. If you have any questions or concerns, please contact me at (404) 229-9500.

Sincerely,

D. Lloyd

Diedre Lloyd
Remedial Project Manager
Restoration & Sustainability Branch
Superfund Division

cc: Mr. James Foster, (Signed Original), United Parcel Service, Return Receipt
Mr. Jamie A. Woods, PG, Tennessee, Department of Environment and Conservation, Memphis Environmental Field Office, 8383 Wolf Lake Drive, Bartlett, TN 38133-4119
Ms. Joan Hutton, CALIBRE, 3898 Mountain View Road, Kennesaw, GA 30152
Mr. Thomas Holmes, HDR Environmental, P.O. Box 728, Highlands, NC 28741

U.S. ENVIRONMENTAL PROTECTION AGENCY
COMMENTS on the MEMBRANE INTERFACE PROBE SURVEY REPORT

REVISION 0

JULY 2017
DUNN FIELD

DEFENSE DEPOT of MEMPHIS, TENNESSEE
MEMPHIS, TENNESSEE

EPA COMMENTS

1. The text in Section 2.2.1, MIP Survey Methodology, Page 3 states, "Total depth and termination of each boring was determined primarily by the indications that the base of the unsaturated loess/clay section had been penetrated, and the underlying sand section had been reached;" however, it is unclear why this depth was utilized as the termination point of the investigation. Section 3.2.3, Analytical Results and Data Evaluation states the underlying "sand unit" described in Section 2.2.1 is a "fine silty sand". Please revise the *Membrane Interface Probe Survey Report, Revision 0, July 2017, Dunn Field* (hereinafter referred to as the Report) to include a discussion as to why the underlying fine silty sand unit was not screened and sampled as a part of this investigation as this appears to be data gap that may need to be addressed.

2. The text in Section 2.2.1, MIP Survey Methodology, Page 3 states, "Approximate target depths were predetermined based on prior investigations, well logs, and available local geologic reports...;" however, discussion of how this data was used to determine total depth and termination of each boring is not provided. Please revise Section 2.2.1 to include a discussion on how previous data was used in order to determine the total depth and termination of each boring location.

3. Figure 8, Cross Section A-A' and Figure 9, Cross Section B-B' include a cross section of the investigation area. However, the cross-section figures do not depict the depth to the surficial aquifer. Please revise Figures 8 and 9 to include the lithology shown down to the depth of the surficial aquifer within the investigation area.

4. The Report does not include a figure depicting the groundwater plume located within the investigation area. Please revise the Report to include a figure depicting the well locations, VOC groundwater plume, along with the groundwater flow direction.

5. The Report does not provide well construction information for the wells located within the investigation area. Revise the Report to include well construction information along with boring logs (if available) for wells MW-07, MW-08, MW-28, MW-129, and MW-230.

Responses to:
U.S. Environmental Protection Agency (EPA) Region 4 Comments on:
Membrane Interface Probe Survey Report
Dunn Field, Defense Depot Memphis, Tennessee
July 2017 (Revision 0)

1) **The text in Section 2.2.1, MIP Survey Methodology, Page 3 states, "Total depth and termination of each boring was determined primarily by the indications that the base of the unsaturated loess/clay section had been penetrated, and the underlying sand section had been reached;" however, it is unclear why this depth was utilized as the termination point of the investigation. Section 3.2.3, Analytical Results and Data Evaluation states the underlying "sand unit" described in Section 2.2.1 is a "fine silty sand". Please revise the Membrane Interface Probe Survey Report, Revision 0, July 2017, Dunn Field (hereinafter referred to as the Report) to include a discussion as to why the underlying fine silty sand unit was not screened and sampled as a part of this investigation as this appears to be data gap that may need to be addressed.**

   Response: The following text has been added to new Section 2.2.1 Limitations:
   "The vertical limits of this survey were identified in the UFP-QAPP (Worksheet 11 – Data Quality Objectives, Study Area Boundaries and Worksheet 14 – Summary of Project Tasks, MIP Borings, Trinity, 2016) as the lithologic change from the unsaturated loess deposits into the underlying silty sandy clays in the upper part of the fluvial deposits as indicated by the MIP electrical conductivity (EC) sensor. This lithologic break was considered sufficient due to the nature of the fine-grained soils and organic matter in the loess to retard migration of CVOCs and to act as a long-term source area as indicated in previous investigations for the Source Areas on Dunn Field.

   The EC sensor was observed in real-time during probe advancement and the borings terminated when less conductive soils (sands) were observed at target depths or probe refusal was encountered. The temperature sensor was determined to not be appropriate for identifying the transition as saturated soils of the fluvial deposits were not encountered, and therefore not used in decision making.

   The approximate target depths for the study area were determined from lithologic boring logs, well construction diagrams, and groundwater elevations from prior investigations. Boring logs and well construction diagrams for MW-07, MW-08, MW-28, MW-129, MW-130, and MW-230 are provided in **Appendix A**; the location of these wells is shown on **Figure 2**. Fluvial aquifer groundwater elevations and total CVOC concentrations for the study area are shown on **Figure 4**. Consistent with available boring logs, the top of the fluvial deposits is identified as being a silty sandy clay with the overlying loess being low plasticity silty clays or clayey silts. This is consistent with soils described during soil sampling activities conducted during the MIP Survey."

2) **The text in Section 2.2.1, MIP Survey Methodology, Page 3 states, "Approximate target depths were predetermined based on prior investigations, well logs, and available local geologic reports…;" however, discussion of how this data was used to determine total depth and termination of each boring is not provided. Please revise Section 2.2.1 to include a discussion on how previous data was used in order to determine the total depth and termination of each boring location.**

   Response: Revisions incorporated into text per Response to Comment #1.

3) **Figure 8, Cross Section A-A' and Figure 9, Cross Section B-B' include a cross section of the investigation area. However, the cross-section figures do not depict the depth to the surficial aquifer. Please revise Figures 8 and 9 to include the lithology shown down to the depth of the surficial aquifer within the investigation area.**

   Response: As noted in Section 3.1.3 of the Report, the depth to water in the shallow unconfined aquifer is approximately 50 to 60 feet below land surface (bls) and was not encountered during the soil investigation. Sections 3.1.3 and 3.2.3 of the Report state that perched water was observed at shallow depths (1-4 feet bls) in a small number of soil borings but was not consistent across the study area. Lowest elevation achieved during the MIP Survey was approximately 252 feet North American Vertical Datum of 1988 (NAVD88). Static water elevations recorded during the October 2016 LTM event were reported as ranging from 234.84 feet NAVD88 in MW-08 west of the study area to 241.17 feet NAVD88 in MW-130 east of the study area. Based on this and vertical scale limits of the cross-sections, inclusion of the surficial aquifer on the cross-section figures is not appropriate. No revisions made.

4) **The Report does not include a figure depicting the groundwater plume located within the investigation area. Please revise the Report to include a figure depicting the well locations, VOC groundwater plume, along with the groundwater flow direction.**

   Response: This information has been included on new Figure 4 Dunn Field Groundwater Elevations and Total CVOC Concentrations - April 2016.

5) **The Report does not provide well construction information for the wells located within the investigation area. Revise the Report to include well construction information along with boring logs (if available) for wells MW-07, MW-08, MW-28, MW-129, and MW-230.**

   Response: Boring logs and well construction diagrams for the requested wells and MW-130 have been included in new Appendix A Dunn Field Northeast Monitoring Well Information.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

February 2, 2018

FED-EX
RETURN RECEIPT REQUESTED

Mr. James Foster
Assistant Chief of Staff for Installation Management
Base Realignment and Closure Division (ACSIM-ODB)
2530 Crystal Drive (Taylor Building), Room 5000
Arlington, VA 22202-3940

Dear Mr. Foster:

The U.S. Environmental Protection Agency (EPA) has received and reviewed the Department of the U.S. Army, Defense Depot of Memphis Depot Membrane Interface Probe Survey Response to Comments and amended report.

EPA approves the above mentioned report and appreciates the US Army's efforts in this endeavor. If you have any questions or concerns, please contact me at (404) 229 -9500.

Sincerely,

Diedre Lloyd
Remedial Project Manager
Restoration & Sustainability Branch
Superfund Division

cc: Mr. James Foster, (Signed Original), United Parcel Service, Return Receipt
Mr. Jamie A. Woods, PG, Tennessee, Department of Environment and Conservation, Memphis Environmental Field Office, 8383 Wolf Lake Drive, Bartlett, TN 38133-4119
Ms. Joan Hutton, CALIBRE, 3898 Mountain View Road, Kennesaw, GA 30152
Mr. Thomas Holmes, HDR Environmental, P.O. Box 728, Highlands, NC 28741

Above Letter was also emailed to the list below and can be found at the e-file location noted below.

ec: james.c.foster10.civ@mail.mil; jamie.woods@tn.gov; joan.hutton@calibresys.com; thomas.holmes@hdrinc.com; Laura.W.Roebuck@usace.army.mil; tcalhoun@trinityadc.com

e-bbc: Terrell.tina@epa.gov

C:\DDMT\MIP RPT

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
MEMPHIS ENVIRONMENTAL FIELD OFFICE
8383 WOLF LAKE DRIVE
BARTLETT, TN 38133-4119
PHONE (901) 371-3000 STATEWIDE 1-888-891-8332 FAX (901) 371-3170

November 3, 2017

James C. Foster
BRAC Program Manager
Headquarters Department of the Army,
Assistant Chief of Staff for
Installation Management (DAIM-ODB)
Army Pentagon,
2530 Crystal Drive,
Arlington, VA 22202-3934

Subject: **Dunn Field Membrane Interface Probe Survey Report Approval**
Defense Depot Memphis, Tennessee
TDoR ID # 79-736

Mr. Foster,

TDEC-DoR has reviewed the contents of the **Dunn Field Membrane Interface Probe Survey Report (Rev. 0)** as submitted by T. Calhoun (Trinity), and has no significant comments on the report's findings. If there are questions or concerns, please contact me at (901) 371-3041 or at jamie.woods@tn.gov .

Regards,

Jamie A. Woods, P.G.
Project Manager
Division of Remediation
Memphis Environmental Field Office

cc: Todd Calhoun (Trinity)
D. Lloyd (EPA-PM)
Joan Hutton (CALIBRE)
TDoR NCO: file 79-736
TDoR MEFO: file 79-736

Appendix B Dunn Field Northeast Monitoring Well Information

US ARMY ENVIRONMENTAL HYGIENE AGENCY

DRILLING LOG

DD Memphis, TN

PROJECT 38-26-0195-82 DATE 28 June 1982

LOCATION Dunn Field Area-26' south of E-W fence, 26' north of RR tracks & 44' east of power pole #47104 DRILLERS Kestner, Thoner, Curran

DRILL RIG Acker AD11/6" hollow stem auger BORE HOLE MW - 7

Gl. 293.10'

DEPTH	SAMPLE TYPE / BLOWS PER 6 IN	DESCRIPTION	TD - 75' WL(initial)-64'-7" TOC WL(24 hr)-65'-0" TOC REMARKS
		Brown silty clay	
5		Darker brown silt	
10			
15			

HSE-ES Form 78, 1 Jun 80

Replaces USAEHA Form 95, 12 Aug 74, which will be used.

US ARMY ENVIRONMENTAL HYGIENE AGENCY

DRILLING LOG

DD Memphis, TN

PROJECT 38-26-0195-82 DATE 28 June 1982

LOCATION Dunn Field Area-26' south of EW fence, 26' north of RR tracks & 44' east of power pole #47104 DRILLERS Kestner, Thoner, Curran

DRILL RIG Acker AD11/6" hollow stem auger BORE HOLE MW - 7

DEPTH	SAMPLE TYPE / BLOWS PER 6 IN.	DESCRIPTION	REMARKS
20		Red-brown silty clay (weak read)	
25			
30			

HSE-ES Form 78, 1 Jun 80

Replaces USAEHA Form 95, 12 Aug 74, which will be used.

US ARMY ENVIRONMENTAL HYGIENE AGENCY

DRILLING LOG

DD Memphis, TN

PROJECT 38-26-0195-82 DATE 28 June 1982

LOCATION Dunn Field Area-26' south of EW fence, 26' north of RR tracks & 44' east of power pole #47104 DRILLERS Kestner, Thoner, Curran

DRILL RIG Acker AD11/6" hollow stem auger BORE HOLE MW - 7

DEPTH	SAMPLE TYPE / BLOWS PER 6 IN.	DESCRIPTION	REMARKS
35			
40		Brown, silty sand, moist	
45		Red-yellow (lt orange) sand/silt	

HSE-ES Form 78, 1 Jun 80

Replaces USAEHA Form 95, 12 Aug 74, which will be used.

US ARMY ENVIRONMENTAL HYGIENE AGENCY

DRILLING LOG

DD Memphis, TN

PROJECT 38-26-0195-82 DATE 28 June 1982

LOCATION Dunn Field Area-26' south of EW fence, 26' north of RR tracks & 44' east of power pole #47104 DRILLERS Kestner, Thoner, Curran

DRILL RIG Acker AD11/6" hollow stem auger BORE HOLE MW - 7

DEPTH	SAMPLE TYPE / BLOWS PER 6 IN.	DESCRIPTION	REMARKS
		Brown, sand/silt with minor gravel	
		Red-yellow (lt orange) sand/silt	
50		Brown sand/silt	
55		Red-yellow (lt orange) sand/silt	
60			

HSE-ES Form 78, 1 Jun 80

Replaces USAEHA Form 95, 12 Aug 74, which will be used.

US ARMY ENVIRONMENTAL HYGIENE AGENCY

DRILLING LOG

PROJECT DD Memphis, TN 38-26-0195-82 DATE 28 June 1982

LOCATION Dunn Field Area-26' south of EQ EW fence, 26' north of RR tracks & 44' east of power pole #47104 DRILLERS Kestner, Thoner, Curran

DRILL RIG Acker AD11/6" hollow stem auger BORE HOLE MW - 7

DEPTH	SAMPLE TYPE / BLOWS PER 6 IN	DESCRIPTION	REMARKS
			Wet, flowing sand
	Initial	Water Level	
65	24 hr Water Level		
		Brown sand/silt	Very wet Water
70		Red-yellow (lt orange) sand/silt	Very wet
75		BOH	

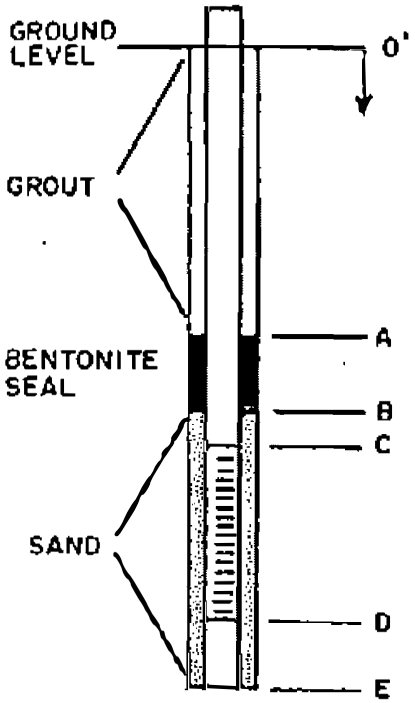
HSE-ES Form 78, 1 Jun 80

Replaces USAEHA Form 95, 12 Aug 74, which will be used.

US ARMY ENVIRONMENTAL HYGIENE AGENCY

TABLE 2 - GROUNDWATER MONITOR WELL SUMMARY

PROJECT 38-26-0195-82 DATE 6 JULY 82
DONT



A – TOP OF BENTONITE SEAL
B – TOP OF SAND
C – TOP OF WELL SCREEN
D – TOP OF SEDIMENT TRAP
E – TOTAL WELL DEPTH

WELL NO.	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7
A		9'6"	60'-0"	3'-0"	54'-0"	30'-0"	49'-0"
B		13'-0"	63'-0"	3'-0"	57'-0"	33'-0"	54'-0"
C		18'-0"	63'6"	58'-6"	57'-0"	50'-0"	64'-0"
D		32'-0"	73'-6"	78'-6"	77'-0"	70'-0"	74'-0"
E		32'-0"	73'-6"	78'-6"	77'-0"	70'-0"	74'-0"
GROUT THICKNESS		9'-6"	15'-0"	3'-0"	15'-0"	9'-0"	15'-0"
BENTONITE SEAL THICKNESS		3'-6"	3'-0"	0	3'-0"	3'-0"	5'-0"
LENGTH OF PIPE	72'2"	20.0'	65'-6"	60-0'	60'-0"	51'-0"	67'-0"
LENGTH OF STANDPIPE		2'	2'	1'-6"	3'	1'	3'
LENGTH OF SCREEN	10'	10'	10'	20'	20'	20'	10'
LENGTH OF SEDIMENT TRAP	0	0	0	0	0	0	0
SCREEN(in.) SLOT SIZE	0.010	0.010	0.010	0.010	0.010	0.010	0.010
INITIAL(ft.) WATER LEVEL	N/A	274'-3"	228'-5"	230'-4"	228'-6"	229'-7"	231'-6"
24 HOUR(ft.) WATER LEVEL	N/A	269'-5"	228'-10"	230'-3"	228'-6"	229'-1"	231'-1"
GROUND LEVEL ELEVATION ft.		289'-8"	290'-5"	300'-0"	301'-4"	288'-1"	293 -1"
REMARKS Completion Date	casing broken 24 JUNE	24 JUNE	26 JUNE	26 JUNE	27 JUNE	29 JUNE	29 JUNE

Geohydrologic Study no. 38-26-0195-83, USAEHA, Memphis, TN, 21 Jun-2 Jul 82

Law Environmental, Inc.
Government Services Division

TEST BORING RECORD

18 60

BORING NUMBER MW-8
JOB NUMBER 11-8531-01
DATE STARTED 2-23-89
DATE COMPLETED 2-27-89
DRILLED BY JC
LOGGED BY FWT
CHECKED BY RDM

REMARKS:

7 1/4" Hollow Stem Auger
Split Spoon Sampling

ELEV. IN FEET	DEPTH IN FEET	DESCRIPTION	CR	S	LT	SPT N VALUE
292.74	0.0	Soft to very stiff light brown silty CLAY, CL				
287.74						17
282.74						10
277.74						5
272.74	18.5	Stiff medium dark brown slighty silty CLAY, CL				10
267.74	23.5	Stiff dark reddish brown sandy CLAY with black inclusions, CL				12
262.74	28.5	Firm dark reddish brown fine to medium grained well sorted clayey SAND, SC				11
257.74	33.5	Dark brownish red fine to medium grained clayey SAND with chert pebbles, SP				54

Law Environmental, Inc.
Government Services Division

TEST BORING RECORD

BORING NUMBER	MW-8
JOB NUMBER	11-8531-01
DATE STARTED	2-23-89
DATE COMPLETED	2-27-89
DRILLED BY	JC
LOGGED BY	[illegible]T
CHECKED BY	RDM

REMARKS:

ELEV. IN FEET	DEPTH IN FEET	DESCRIPTION	CR	S	LT	SPT N VALUE
	35.0	See previous page				
	38.5					
252.74		Dense reddish orange fine to medium grained well sorted clayey SAND with yellowish - tan sand layers, SP				39
247.74						33
242.74						55
	53.5					
237.74	55.0	Dark reddish orange fine to medium grained well sorted clayey gravelly SAND, SP				90
		Dark reddish brown fine to coarse grained SAND with small amount of gravel, SP-SM			GS AL W	
232.74						79
227.74					GS AL W	36
222.74	70.0					18

Law Environmental, Inc.
Government Services Division

TEST BORING RECORD

182 62

BORING NUMBER	MW-8
JOB NUMBER	11-8531-01
DATE STARTED	2-23-89
DATE COMPLETED	2-27-89
DRILLED BY	JC
LOGGED BY	FWT
CHECKED BY	RDM

REMARKS:

ELEV. IN FEET	DEPTH IN FEET	DESCRIPTION				QR	S	LT	SPT N VALUE
	70.0	See previous page							
	73.5	light orangish brown medium grained gravelly SAND, SP							
217.74	75.0								
		Boring Terminated							

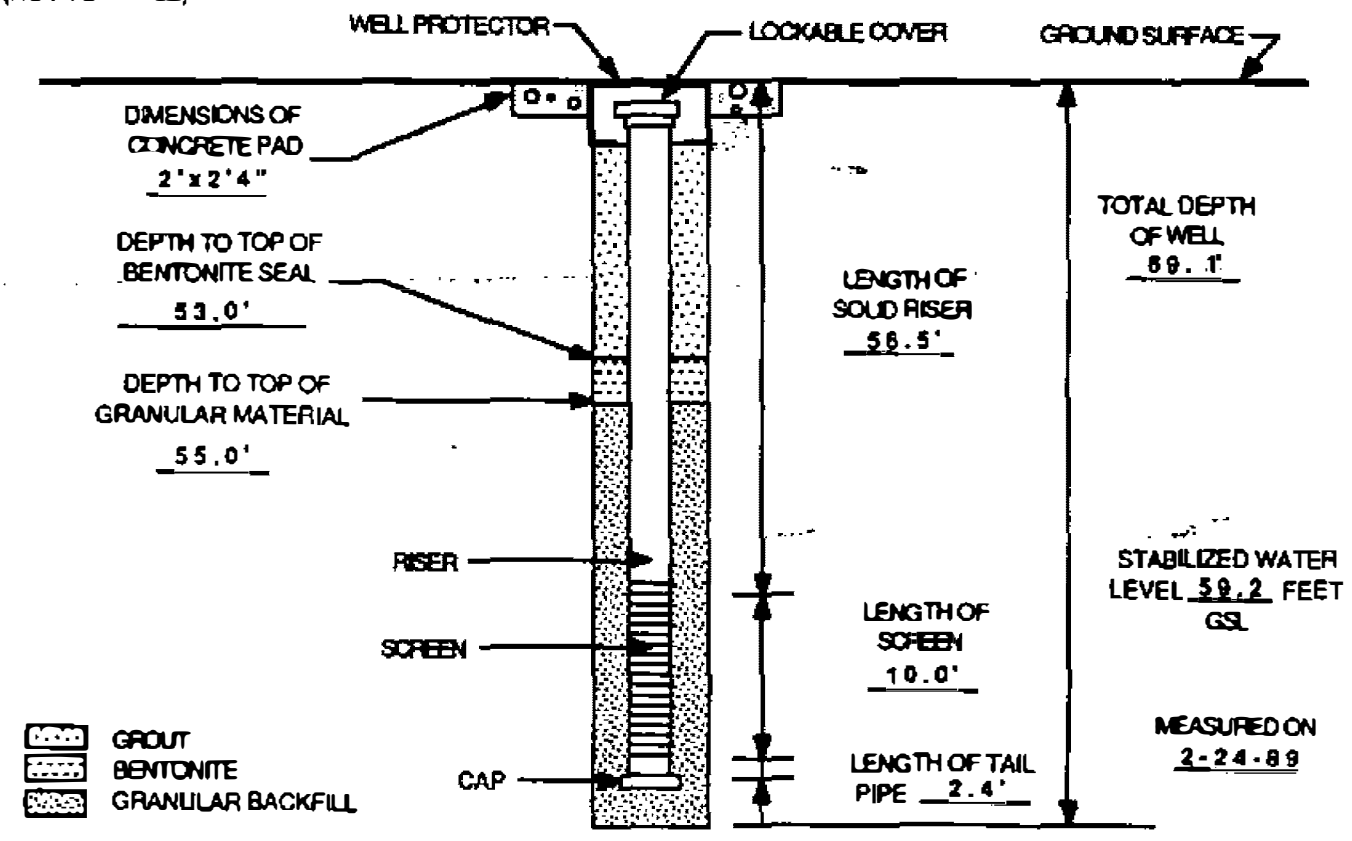
TYPE II MONITORING WELL INSTALLATION DIAGRAM

LAW ENVIRONMENTAL, INC.
GOVERNMENT SERVICES DIVISION
KENNESAW, GEORGIA

JOB NAME: DDMT
WELL NO.: MW-8 JOB NO.: 11-6531-01
DATE: 2-24-89 TIME: 1030
WELL LOCATION: DUHN FIELD

GROUND SURFACE ELEVATION	282.74 ft.	BENTONITE TYPE	EXTRA HIGH YIELD
TOP OF SCREEN ELEVATION	236.24 ft.	MANUFACTURER	WYO - BEN
REFERENCE POINT ELEVATION	282.74 ft.	CEMENT TYPE	PORTLAND TYPE 1
TYPE SAND PACK: SILICA SAND GRADATION 20/40		MANUFACTURER	LONE STAR
SAND PACK MANUFACTURER	GRANUSIL	BOREHOLE DIAMETER	7 1/4"
SCREEN MATERIAL	PVC SCHED 40	SCREEN DIAMETER: 2" SLOT SIZE: 0.010"	
MANUFACTURER	ATLANTIC SCREEN CO.	LAW ENVIRONMENTAL, INC. FIELD REPRESENTATIVE	RDM, FWT
RISER MATERIAL	PVC SCHED 40	DRILLING CONTRACTOR	TRI-STATE TESTING
MANUFACTURER	ATLANTIC SCREEN CO.	AMOUNT BENTONITE USED	1 BUCKET
RISER DIAMETER	2"	AMOUNT CEMENT USED	9 BAGS @ 94lbs / BAG
DRILLING TECHNIQUE	HOLLOW STEM AUGER	AMOUNT SAND USED	1 BAG @ 100lbs/BAG
AUGER SIZE AND TYPE	7" CMF HOLLOW STEM AUGER	STATIC WATER DEPTH (after dev.)	56.8

(NOT TO SCALE)



QA / QC

INSTALLED BY: J. CRAWFORD INSTALLATION OBSERVED BY: FWT, RDM
DISCREPANCIES: NONE

LAW ENVIRONMENTAL, INC.
GOVERNMENT SERVICES DIVISION

TEST BORING RECORD

BORING NUMBER	MW-28
JOB NUMBER	11-8531-01
DATE STARTED	11-13-89
DATE COMPLETED	11-14-89
DRILLED BY	E. FLEMMING
LOGGED BY	F. THOMAS
CHECKED BY	J. ABSALON

REMARKS:

PAGE 1 OF 3

7 7/8" Hollow Stem Auger

Split Spoon Sampling

ELEV. IN FEET	DEPTH IN FEET	DESCRIPTION	MONITORING WELL CONSTRUCTION	SYM-BOLS	LAB TESTS	SPT N VALUE
294.89	0.0	Very stiff light to dark brown silty CLAY, CL				
289.89						20
284.89						10
279.89						15
274.89						22
269.89	25.0	Stiff to very stiff orangish red sandy CLAY, CL				15
264.89	30.0	Dense reddish orange slightly clayey gravelly SAND, SP				45
259.89	35.0					>50

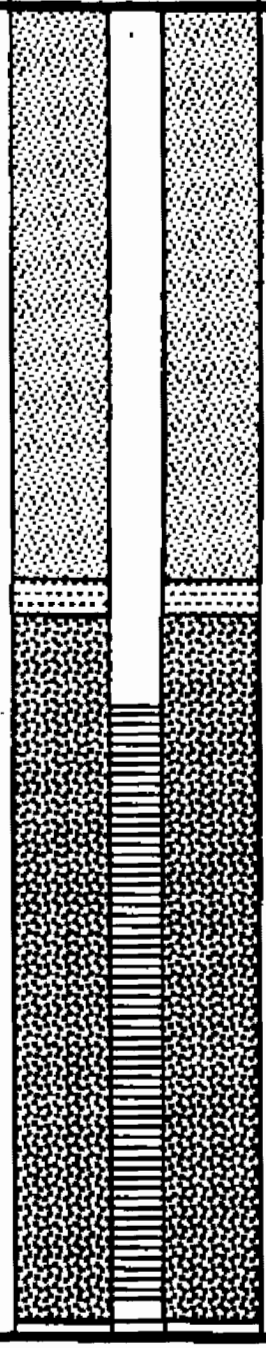
LAW ENVIRONMENTAL, INC.
GOVERNMENT SERVICES DIVISION

TEST BORING RECORD

ASJ 1852127

BORING NUMBER MW-28
JOB NUMBER 11-8531-01
DATE STARTED 11-13-89
DATE COMPLETED 11-14-89
DRILLED BY E. FLEMMING
LOGGED BY F. THOMAS
CHECKED BY J. ABSALON

REMARKS:

ELEV. IN FEET	DEPTH IN FEET	DESCRIPTION	MONITORING WELL CONSTRUCTION	SYM-BOLS	LAB TESTS	SPT N VALUE
	35.0	See previous page				
234.89						>50
249.89						>50
244.89						>50
239.89						30
234.89	60.0	Very dense orangish brown to tan fairly well sorted, fine to medium grained SAND, SP			GS AL W	48
229.89						>50
224.89	70.0					>50

1851281

LAW ENVIRONMENTAL, INC.
GOVERNMENT SERVICES DIVISION

TEST BORING RECORD

BORING NUMBER MW-28
JOB NUMBER 11-8531-01
DATE STARTED 11-13-89
DATE COMPLETED 11-14-89
DRILLED BY E. FLEMMING
LOGGED BY F. THOMAS
CHECKED BY J. ABSALON

REMARKS:

ELEV. IN FEET	DEPTH IN FEET	DESCRIPTION	MONITORING WELL CONSTRUCTION	SYM-BOLS	LAB TESTS	SPT N VALUE
	70.0	See previous page				
219.89						>50
214.89	80.0				GS AL W	20
		Firm gray and brown silty to lean CLAY, CL				
213.39	81.5					
		Boring Terminated				

TYPE II MONITORING WELL INSTALLATION DIAGRAM

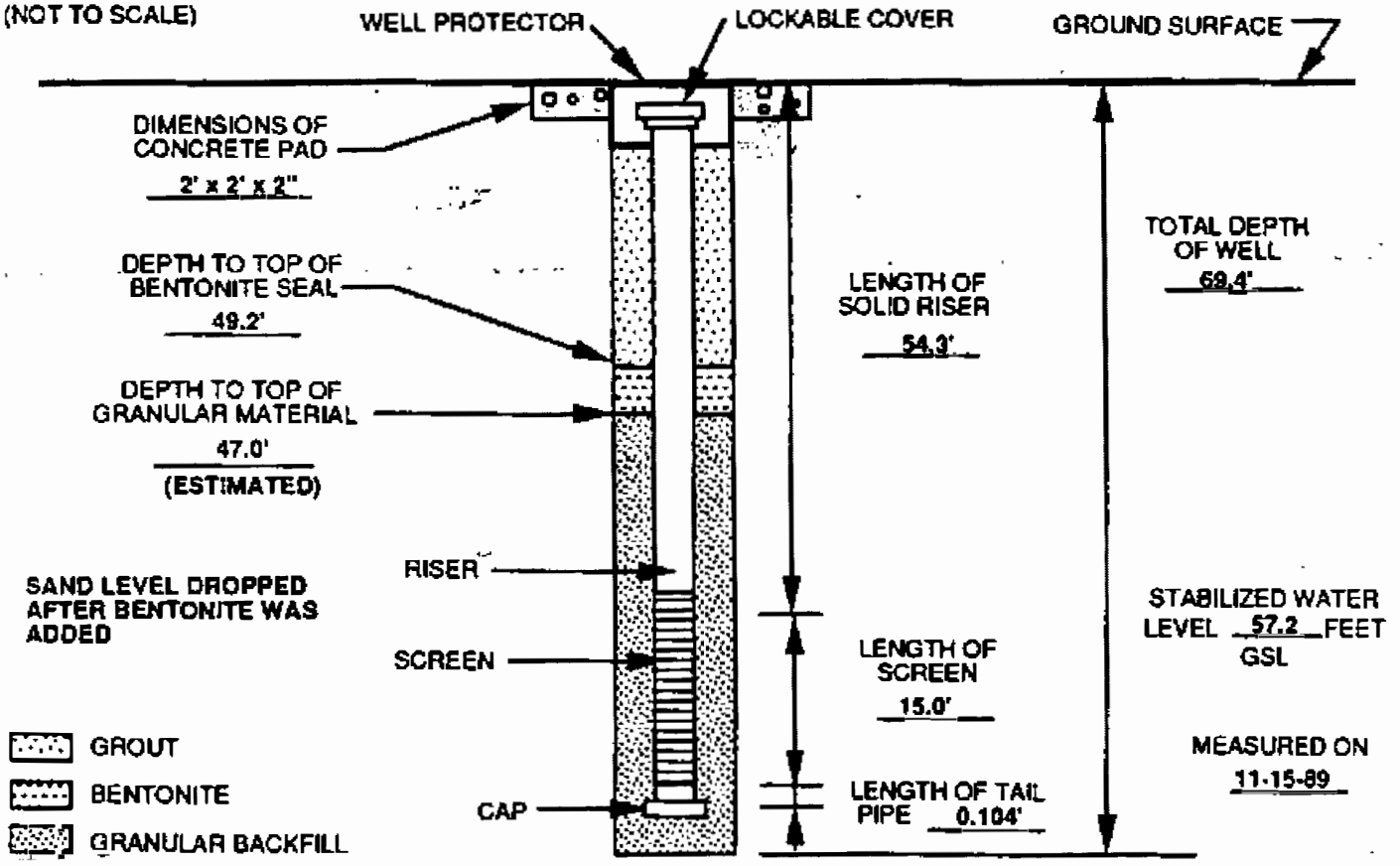
LAW ENVIRONMENTAL, INC.
GOVERNMENT SERVICES DIVISION
KENNESAW, GEORGIA

JOB NAME: DDMT
WELL NO.: MW-28 JOB NO: 11-6531-01
DATE: 11-14-89 TIME: 14:00
WELL LOCATION: EAST FENCE OF DUNN FIELD

GROUND SURFACE ELEVATION: 294.890
TOP OF SCREEN ELEVATION: 240.59
REFERENCE POINT ELEVATION: 294.89
TYPE SAND PACK: SILICA SAND GRADATION: 20/40
SAND PACK MANUFACTURER: GRANUSIL
SCREEN MATERIAL: PVC SCHED 40
MANUFACTURER: DRILLERS SERVICE
RISER MATERIAL: PVC SCHED 40
MANUFACTURER: DRILLERS SERVICE
RISER DIAMETER: 2.0"
DRILLING TECHNIQUE: H.S.A.
AUGER SIZE AND TYPE: 7 7/8"

BENTONITE TYPE: HIGH YEILD BENTONITE
MANUFACTURER: PELL PLUG
CEMENT TYPE: PORTLAND TYPE I
MANUFACTURER: ASH GROVE CEMENT CO.
BOREHOLE DIAMETER: 8.0"
SCREEN DIAMETER: 2.0" SLOT SIZE: 0.010"
LAW ENVIRONMENTAL, INC. FIELD REPRESENTATIVE: P. THOMAS
DRILLING CONTRACTOR: LAW ENGINEERING
AMOUNT BENTONITE USED: 1 BUCKET
AMOUNT CEMENT USED: 17 BAGS @ 94 lbs/ BAG
AMOUNT SAND USED: 6 BAGS @ 100 lbs / BAG
STATIC WATER DEPTH (after dev.): 57.2'

(NOT TO SCALE)



QA / QC

INSTALLED BY: EF INSTALLATION OBSERVED BY: FWT
DISCREPANCIES: FLUSH MOUNTED

HTRW DRILLING LOG

1. COMPANY NAME: JACOBS ENGINEERING	2. DRILLING SUBCONTRACTOR: BOART/LONGYEAR	DISTRICT: MOBILE; HOLE NUMBER: MW-129; SHEET: 1 OF 3 SHEETS
3. PROJECT: DOMT- MEMPHIS	4. LOCATION: SEE SKETCH - MEMPHIS, TN	
5. NAME OF DRILLER: JON WEEKS	6. MANUFACTURER'S DESIGNATION OF DRILL: GW PESCHE RD300 SONIC DRILL	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 6" (CONTINUOUS) SAMPLE EXTENDED INTO PLASTIC LINERS	8. HOLE LOCATION: SEE SKETCH	
	9. SURFACE ELEVATION	
	10. DATE STARTED: 6/24/03	11. DATE COMPLETED: 6/24/03
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK: 0	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE: 85 FT	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

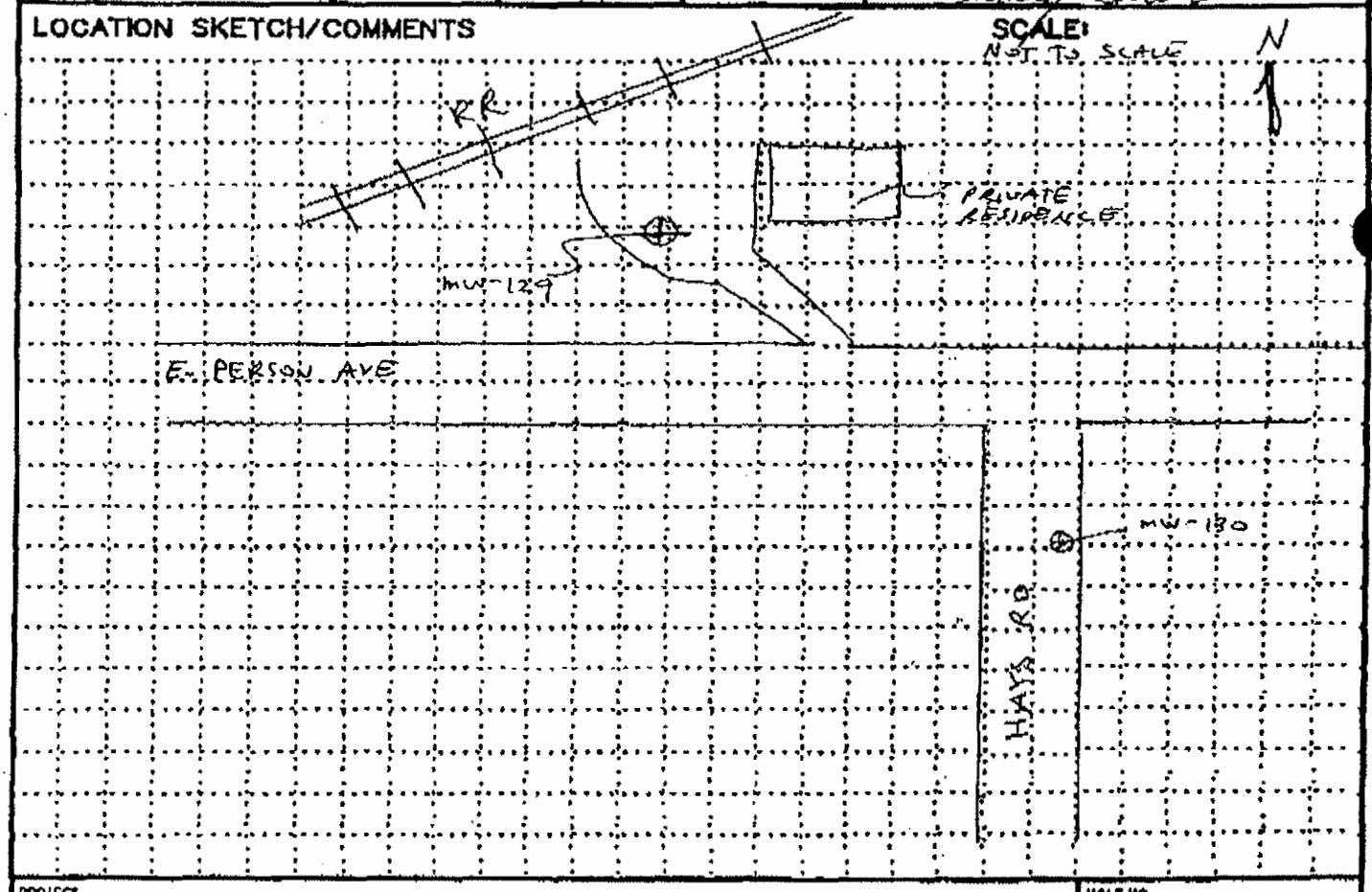
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
0						

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		Bruce Smith

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT	HOLE NO.
DOMT - MEMPHIS	MW-129

,ure 4-2. HTRW Drilling Log

HTRW DRILLING LOG (CONTINUATION SHEET)

MW-129

PROJECT: DOMT-MEMPHIS | INSPECTOR: K. SMITH | SHEET 2 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NUMBER AND RECOVERY (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNTS (g)	REMARKS (h)
		ASPHALT					BEGAN @ 0805
		MIXED GRAVEL & CLAY	9999 ppm	5'/5'			NO ODOR
	5	CLAY, SILTY, YELLOW-BROWN, MOIST, MED. PLASTICITY					
		SILT, CLAY, DRY, LOW PLASTICITY	184 ppm	5'/5'			NO ODOR
	10			5'/5'			NO ODOR
		CLAY, SILTY, MOIST, LT. BROWN, MED. PLASTICITY	999 ppm				
	15			5'/5'			NO ODOR
		SILT, CLAYEY, MOIST, LT. BROWN, LOW PLASTICITY	32 ppm				
	20			5'/5'			NO ODOR
			12.5 ppm				
	25			5'/10'			NO ODOR
	30	AS ABOVE W/SOME FINE SAND	5 ppm				
	35			5'/5'			NO ODOR
		CLAY, VERY SANDY, REDDISH BROWN, MOIST, MED. PLASTICITY	5 ppm				
	40	SAND, MED. GRAINED, SOME GRAVEL, REDDISH BROWN, MOIST, SOME LT. BROWN BANDING	3.3 ppm	5'/5'			NO ODOR
	45	SAND, FINE, REDDISH-BROWN, MOIST, SOME DARK STAINING	2.7 ppm	10'/10'			NO ODOR
	50						

PROJECT: DOMT- MEMPHIS | HOLE NO. MW-129

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 4-2 (Concluded)

HTRW DRILLING LOG (CONTINUATION SHEET)

MW - 129

PROJECT DDMT - MEMPHIS | INSPECTOR K. SMITH | SHEET 3 of 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NUMBER AND RECOVERY (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	55	AS ABOVE SAND, MOIST TO WET, REDDISH BROWN, MED. TO FINE GRAINED		10'/10'			NO ODOR
	60	SAND, MED. GRAINED, WET, LT. BROWN AS ABOVE BUT BECOMING FINER	0.5 ppm	10'/10'			NO ODOR
	65	SAND, COARSE, MOIST, LT. BROWN					
	70	AS ABOVE W/ SOME LAYERING OF FINE SAND	0.6 ppm	10'/10'			NO ODOR
	75						
	80	CLAY, YELLOW-BROWN MOTTLED GRAY, STIFF	0.5 ppm	10'/10'			NO ODOR
	85	TD = 85'					COMPLETE @ 1600 HRS
	90						
	95						
	100						

PROJECT DDMT - MEMPHIS | BOLE NO. MW - 129

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

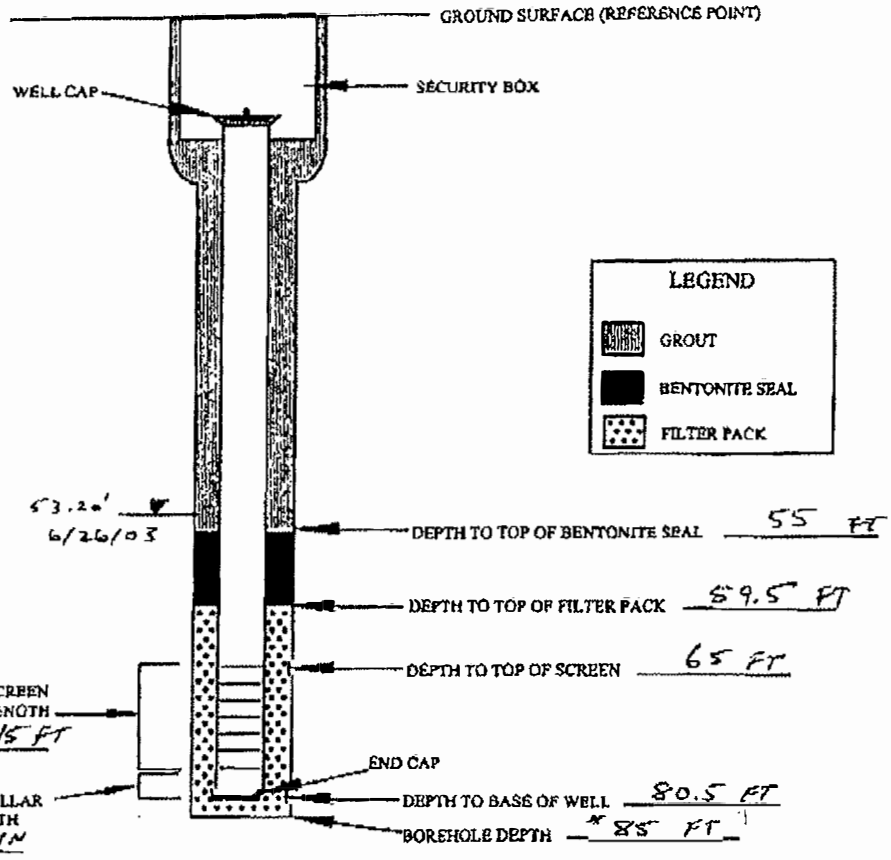
Figure 4-2 (Concluded)

WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: K. SMITH
DRILLING CONTRACTOR: BEARTLONGYEAR
DRILLING TECHNIQUE: SONIC
AUGER SIZE AND TYPE: 6 IN CONTINUOUS
BOREHOLE IDENTIFICATION: MW-129
BOREHOLE DIAMETER: 6 IN
WELL IDENTIFICATION: MW-129
WELL CONSTRUCTION START DATE: 6/24/03
WELL CONSTRUCTION COMPLETE DATE: 6/24/03
SCREEN MATERIAL: PVC
SCREEN DIAMETER: 2 IN
STRATUM-SCREENED INTERVAL (FT): 15
CASING MATERIAL: PVC
CASING DIAMETER: 2 IN

TYPE OF FILTER PACK: #2 SAND
GRADIATION:
AMOUNT OF FILTER PACK USED: SEE DIAGRAM
TYPE OF BENTONITE: HOLEPLUG
AMOUNT BENTONITE USED: SEE DIAGRAM
TYPE OF CEMENT: Bentonite/cement
AMOUNT CEMENT USED: SEE DIAGRAM
GROUT MATERIALS USED:
DIMENSIONS OF SECURITY BOX: 8" IN
TYPE OF WELL CAP: LOCKING
TYPE OF END CAP: 6 IN FLAT
COMMENTS:

SPECIAL CONDITIONS
(describe and draw)



* HOLE COLLAPSED TO 80.5 FT AS CASING WAS ADVANCED

NOT TO SCALE

INSTALLED BY: JON WEEKS INSTALLATION OBSERVED BY: K. SMITH

DISCREPANCIES:

HTRW DRILLING LOG

DISTRICT: MOBILE

HOLE NUMBER: MW-130

1. COMPANY NAME: JACOBS ENG.

2. DRILLING SUBCONTRACTOR: BOART/LONGYEAR

SHEET 1 OF 3 SHEETS

3. PROJECT: DDMT-MEMPHIS

4. LOCATION: SEE SKETCH

5. NAME OF DRILLER: JON WEEKS

6. MANUFACTURER'S DESIGNATION OF DRILL: GUS PESCHE RD300 SONIC DRILL

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 6" OD CONTINUOUS SAMPLE EXTRUDED INTO PLASTIC LINERS

8. HOLE LOCATION: SEE SKETCH

9. SURFACE ELEVATION:

10. DATE STARTED: 6/25/03

11. DATE COMPLETED: 6/25/03

12. OVERBURDEN THICKNESS: NA

13. DEPTH DRILLED INTO ROCK: Ø

14. TOTAL DEPTH OF HOLE: 85 FT

15. DEPTH GROUNDWATER ENCOUNTERED: 55'

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: 52.38 FT / ET. = 23 HRS

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):

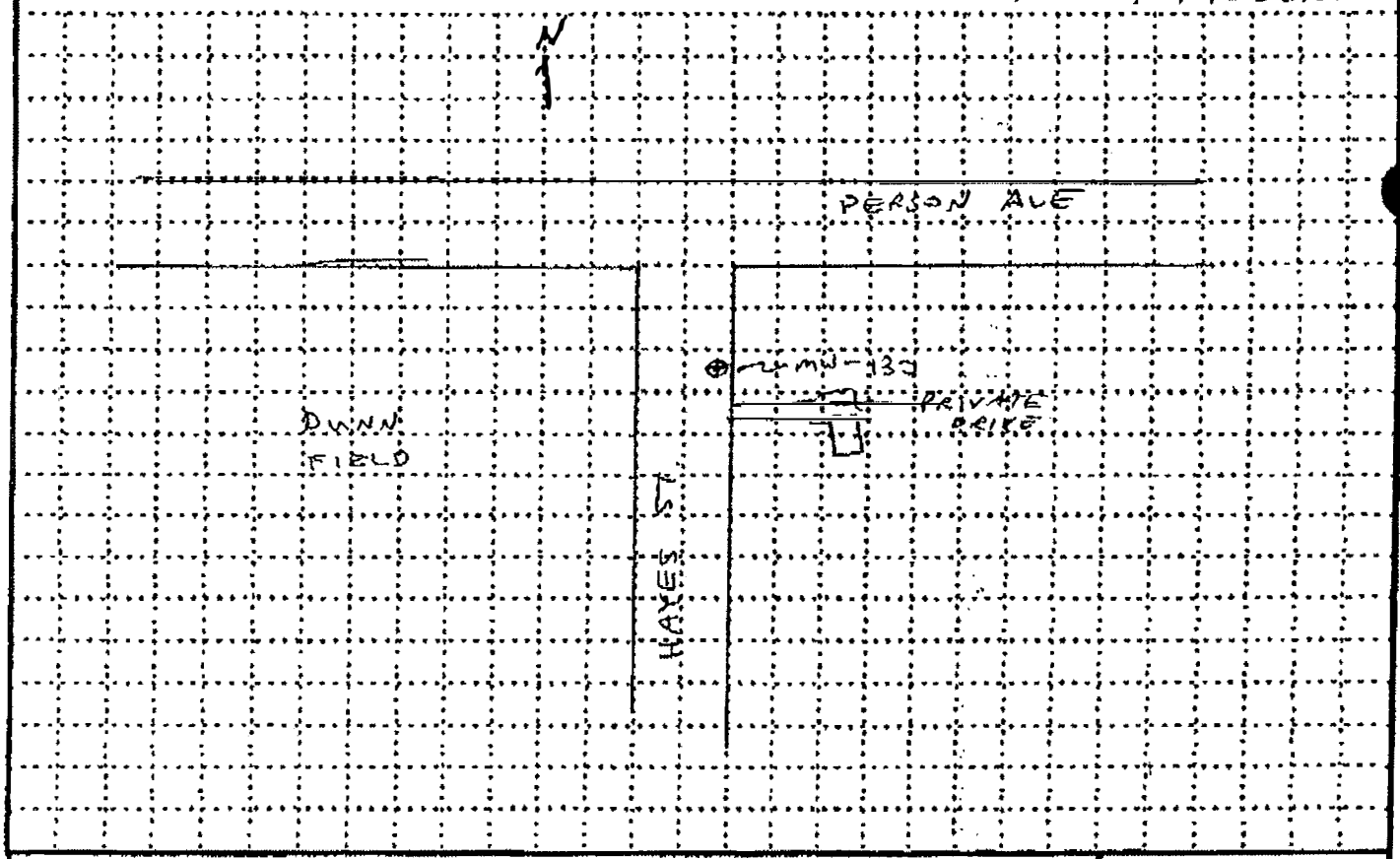
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES			
Ø						

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
Ø						

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		Brian Smith

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT: DDMT-MEMPHIS

HOLE NO.: MW-130

ure 4-2. HTRW Drilling Log

HTRW DRILLING LOG (CONTINUATION SHEET)

MW-130

PROJECT: DDMT- MEMPHIS | INSPECTOR: K. SMITH | SHEET 2 OF 3 SHEETS

REV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NO. AND CLASS. FOR SOIL (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	0	ASPHALT					BEGAN @ 0800
		GRAVEL					
		CLAY, SILTY, BROWN, MOIST, MED. PLASTIC.	15 ppm	5'/5'			NO ODOR
	5		36 ppm	5'/5'			NO ODOR
	10		40 ppm	5'/5'			NO ODOR
	15		20 ppm	5'/5'			NO ODOR
	20		35 ppm	5'/5'			NO ODOR
		CLAY, SILTY, BECOMING SANDY W. VERY FINE SAND, MOIST, MED. PLAST., BROWN	82.4 ppm	5'/5'			NO ODOR
	25		Ø ppm	5'/5'			NO ODOR
	30	CLAY, VERY SANDY W/ FINE SAND, REDDISH-BROWN, MOIST	Ø ppm	10'/10'			NO ODOR
	35		Ø ppm	10'/10'			NO ODOR
	40	SAND, FINE, VERY FINE MOIST, REDDISH BROWN					
	45						
	50						

PROJECT: DDMT- MEMPHIS | HOLE NO. MW-130

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

Figure 4-2 (Concluded)

HTRW DRILLING LOG (CONTINUATION SHEET) MW-130

PROJECT	INSPECTOR	SHEET
DDMT - MEMPHIS	K. SMITH	3 of 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	SAMPLE NUMBER AND RECOVERY (e)	LABORATORY SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		AS ABOVE	1.7 ppm	15'/15'			NO ODOR
	55	SAND, SOME GRAVEL, YELLOW BROWN, MOIST					
		SAND, FINE, YELLOW-BROWN, WET					
	60			15'/15'			NO ODOR
			Ø ppm				
	65	AS ABOVE, BECOMING MED. GRAINED					
	70						
	75			15'/15'			NO ODOR
			Ø ppm				
	80	CLAY, SILTY W/ SOME FINE SAND, MOIST, STIFF, YELLOW-BROWN MOTTLED GRAY					
	85	T.D. = 85'					COMPLETE @ 1500 HRS
	90						
	95						
	100						

PROJECT DDMT - MEMPHIS HOLE NO. MW-130

ENG FORM 5056A-R, AUG 94 (Proponent: CECW-EG)

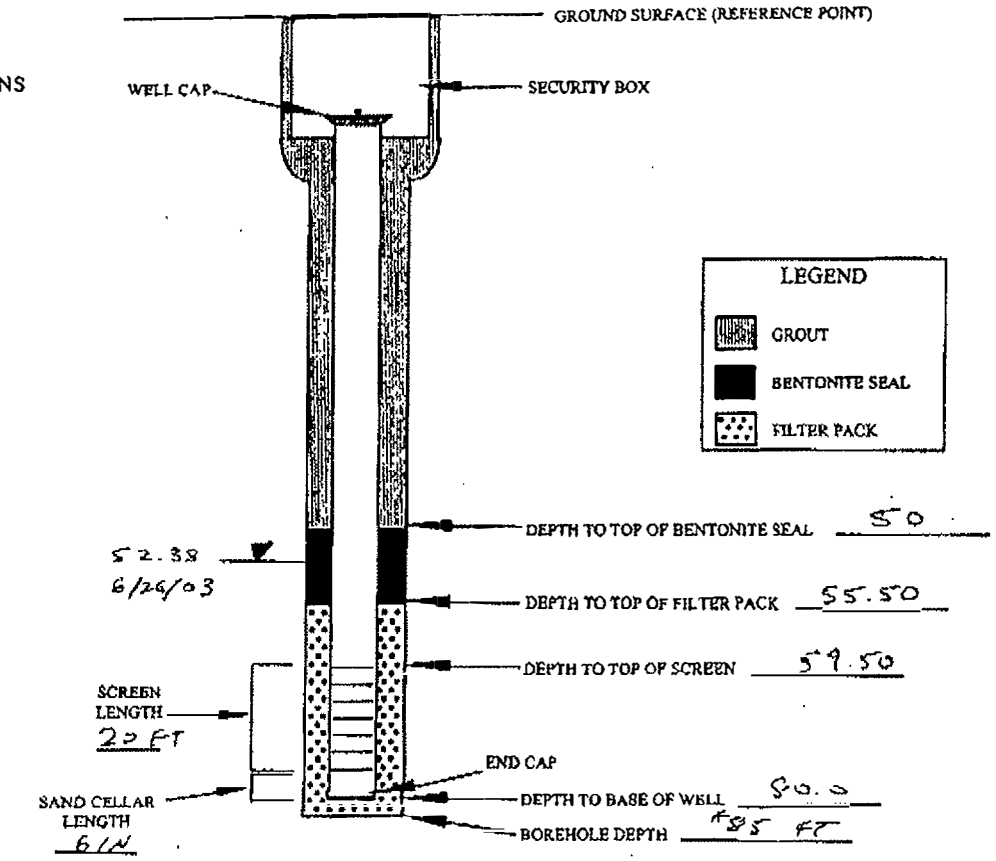
Figure 4-2 (Concluded)

WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: K. SMITH
DRILLING CONTRACTOR: BOART / LONGYEAR
DRILLING TECHNIQUE: SONIC
AUGER SIZE AND TYPE: 6 IN CONTINUOUS
BOREHOLE IDENTIFICATION: MW-130
BOREHOLE DIAMETER: 6 IN
WELL IDENTIFICATION: MW-130
WELL CONSTRUCTION START DATE: 6/25/03
WELL CONSTRUCTION COMPLETE DATE: 6/25/03
SCREEN MATERIAL: PVC
SCREEN DIAMETER: 2 IN
STRATUM-SCREENED INTERVAL (FT): 20 FT
CASING MATERIAL: SCH 40 PVC
CASING DIAMETER: 2 IN

TYPE OF FILTER PACK: #2 SAND
GRADIATION:
AMOUNT OF FILTER PACK USED: SEE DIAGRAM
TYPE OF BENTONITE: HOLEPLUG
AMOUNT BENTONITE USED: SEE DIAGRAM
TYPE OF CEMENT: BENTONITE/CEMENT
AMOUNT CEMENT USED: SEE DIAGRAM
GROUT MATERIALS USED:
DIMENSIONS OF SECURITY BOX: 8" IN
TYPE OF WELL CAP: LOCKING
TYPE OF END CAP: 6 IN FLAT
COMMENTS:

SPECIAL CONDITIONS
(describe and draw)



* BOREHOLE COLLAPSED TO 80 FT AS CASING WAS ADVANCED

NOT TO SCALE

INSTALLED BY: JOEL WEEKS
INSTALLATION OBSERVED BY: K. SMITH

DISCREPANCIES:

FIELD BOREHOLE LOG

BOREHOLE NO.: MW-230
TOTAL DEPTH: 90

PROJECT INFORMATION

PROJECT: FOST-4
PROJECT NO.: 3202-031
SITE LOCATION: DF
PROJECT MANAGER: T. Holmes
FIELD STAFF: E. Van Schaik
BOREHOLE STARTED: 7/30/2007 09:50
BOREHOLE FINISHED: 7/30/2007 14:00

DRILLING INFORMATION

DRILLING CO.: Prosonic
DRILLER: K. Smith
DRILLING METHOD/RIG: Sonic
BOREHOLE DIAMETER: 6
GROUND SURFACE ELEVATION: 286.92
WATER DEPTH/ DATE: 57.81 ft. bgs 9/27/2007
BOREHOLE USE: Monitoring Well

NOTES:

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		CL Clay - strong brown 7YR (4/6), low plasticity, dry.		
		CL Clay - strong brown 7YR (4/6), medium plasticity, soft, dry.		
10				Grouted Annulus
		CL Clay - strong brown 7YR (4/6), medium plasticity, sandy,soft, dry. Becomes silty at 20 feet, mottled.		
20				
		SC Clayey sand - red 2.5YR (4/8), moist.		
		SP Sand - red 2.5YR (4/6, fine grained, dry		
30				

Created By:

Checked By:

FIELD BOREHOLE LOG

BOREHOLE NO.: MW-230

TOTAL DEPTH: 90

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
		SC Clayey sand - red 2.5YR (4/6), fine grained, moist.		
		SP Sand - yellowish red 5YR (5/8), trace subrounded gravel, dry.		
		SC Clayey sand - reddish brown 5YR (4/4), very fine grained, moist.		
		SP Sand - yellowish red 5YR (5/6), very fine grained, some clay, dry.		
40				
		SW Sand - reddish yellowish 5YR (6/8), fine grained, medium to coarse gravel, subrounded to subangular, dry.		
50				Bentonite Plug
		SC Sandy clay - reddish brown 5YR (4/4), dry.		
		SM Silt - gray 5YR(6/6), sandy, very fine grained, dry.		
		SW Gravelly sand - yellowish red 5YR (5/8), dry.		
		SC Clayey sand - yellowish red 5YR (5/8), dry.	57.81 -ft. bgs.	
60				

Created By:

Checked By:

FIELD BOREHOLE LOG

BOREHOLE NO.: MW-230

TOTAL DEPTH: 90

Depth	Soil Symbol	Soil Description	Well Completion	Well Description
				Sand Pack
		SW Sand - yellowish red 5YR (5/8), moist.		
		SW Sand - yellowish red 10YR (7/8),fine to medium gravel, moist.		Screened Interval
		SP Sand - yellowish red 10YR (7/8) very fine to fine grained, moist.		
70				
		CL Sandy clay - yellow 10YR (7/8), fine to medium grained sand, moist.		
		CL Sandy clay - yellow 10YR (7/8), very sandy, moist.		
80				
		CL Clay - grey 7.5 YR (5/1), moist.		
90				

Created By:

Checked By:

WELL INSTALLATION DIAGRAM

WELL NO.: MW-230

PROJECT: FOST-4
PROJECT NUMBER:
SITE LOCATION:
e2M PROJECT MANAGER: T. Holmes
e2M FIELD STAFF: E. Van Schaik
DATE COMPLETED: 7/30/2007
WELL LOCATION:

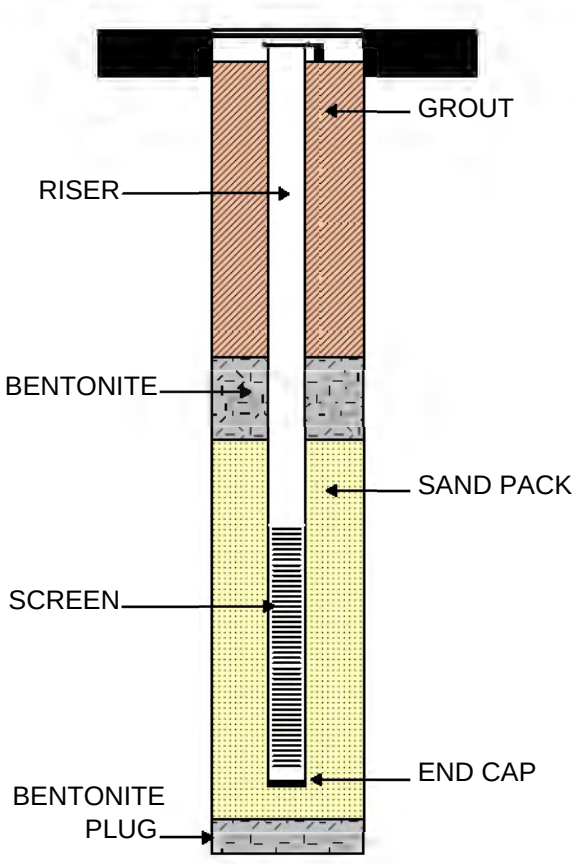
NORTHING: 281842.54
EASTING: 802800.22
GROUND SURFACE ELEVATION (ft, msl): 286.92
TOP OF CASING ELEVATION (ft, msl): 286.57
TOP OF SCREEN ELEVATION (ft, msl): 227.32

DRILLING CO.: Boart Longyear
DRILLING METHOD: Sonic
BOREHOLE DIAMETER (in): 6
SURFACE COMPLETION: Flush Mount
BOLLARDS: No
WELL DIAMETER (in): 2
TYPE OF SCREEN/RISER MATERIAL: Sch. 40 PVC
SLOT SIZE OF SCREEN: 0.010 - inch

TYPE OF FILTER PACK: Sand
GRADATION OF FILTER PACK: 10-20
QUANTITY OF FILTER PACK: 7 Bags
TYPE OF BENTONITE IN SEAL: Shur Plug 3/8"
QUANTITY OF BENTONITE IN SEAL: 1 Bag
TYPE OF GROUT: Portland Type I
QUANTITY OF GROUT: 7 Bags
DEVELOPMENT METHOD: Grunfos Pump
DATE DEVELOPED: 8/2/2007
DEPTH TO WATER (ft.btoc): 57.46

NOTES:

Well Completion (Not to Scale)



Well Details

DIMENSIONS OF CONCRETE PAD: 3' x 3'

LENGTH OF RISER (ft): 59.25
DEPTH TO TOP OF BENTONITE (ft, bgs): 49.3
DEPTH TO TOP OF SAND PACK (ft, bgs): 54.6

LENGTH OF SCREEN (ft): 15
LENGTH OF END CAP: 0.22 ft.
TOTAL DEPTH OF WELL (ft, btoc): 74.49
DEPTH TO TOP OF BACKFILL (ft, bgs): 75
TOTAL DEPTH OF BORING (ft, bgs): 90

Prepared by: **Date:** **Checked by:** **Date:**

Appendix C High Resolution Site Evaluation Report

Dunn Field, DDMT
High Resolution Site Evaluation Report

Wed. Mar. 15, 2017

Project Location: **E. Person Ave. and Hays St., Memphis, TN**

Client

Todd Calhoun
Trinity Analysis & Development Corp.
1002 N. Eglin Parkway
Shalimar, Florida 32579

Sensor Technologies

- ☐ Membrane Interface Probe with Hydraulic Profiling Tool (MiHPT)
- ☑ Membrane Interface Probe (MIP)
- ☐ Hydraulic Profiling Tool (HPT)
- ☑ Electrical Conductivity (EC)
- ☐ Low Level MiHPT (LLMiHPT)
- ☐ Laser Induced Fluorescence (LIF) - Ultraviolet Optical Scanning Tool (UVOST®)

Membrane Interface Probe Detectors

- ☑ Photo Ionization Detector (PID)
- ☐ Flame Ionization Detector (FID)
- ☑ Halogen Specific Detector (XSD)
- ☐ Electron Capture Detector (ECD)

Notes/Anomalies

M17 - Peak at ~9 ft bgs likely an anomaly due to probe going through an unknown object. Confirmatory sampling is recommended.

M41 - Drop in temperature at end of log due to broken thermocouple.

Sample Dates	# of Locations	Survey Depth	Aquisition Software Version	Operator
Thurs. Mar. 2, 2017 to Tues. Mar. 7, 2017	49	30.05 Feet	Geoprobe HPT Software Version 5.25, Geoprobe DI Acquisition Software for Windows Version 1.3	John Montgomery

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Electrical Conductivity (EC)
EC continuously measures soil electrical conductivity by transmitting a low level alternating electrical current through the soil between electrically isolated sensor pins of the probe and the probe body. The voltage response of the imposed current to the soil is measured across these same two points. Conductivity, the inverse of resistivity, is measured in milliSiemens/meter (mS/m). The probe is reasonably accurate in the range of 5 to 400 mS/m. In general lower conductivity values are characteristic of larger grain soil types while higher conductivities are characteristic of finer sized particles such as finer sand, silts, and clays.

Hydraulic Profile Tool (HPT)
HPT continuously measures the hydraulic conductivity of the soil by injecting the constant flow of water through a small stainless steel screen into the soil formation and measuring the hydraulic pressure at both the pump source and the injection port vs. depth. The flow rate of the water into the soil formation is also measured and recorded in milliliters per minute (mL/min) versus depth. Static formation hydraulic pressure measurements (dissipation tests) can also be made by stopping at discrete intervals to determine the static water level. The HPT software can also provide an estimate of K (a value used in hydrogeologic calculations) to provide an interpretation of the hydraulic permeability of the formation.

Membrane Interface Probe (MIP)
MIP continuously measures total chemical detector response to volatile organic compounds (VOCs) vs. depth. The operating principle is based on heating the soil and/or water around a semi-permeable polymer membrane to 121° Celsius (C), volatilizing VOCs that then partition across this membrane. Nitrogen is used as an inert carrier gas, and travels from a surface supply down a transfer tubing which sweeps across the back of the membrane and returns any captured VOCs to the installed detectors at the surface. It takes approximately 60 seconds for the nitrogen gas stream to travel through 50 meters of inert tubing and reach the detectors (see detectors below). Detector response is recorded in microvolts vs. depth. The MIP can be used in saturated or unsaturated soils, as water does not pass through the membrane.

Photo Ionization Detector (PID)
The PID consists of a special 10.2 electron volt (eV) ultraviolet lamp that emits sufficient energy to ionize most aromatics such as benzene, toluene, xylene, etc., and many other molecules with an ionization potential below 10.2 eV. The PID also emits a response for chlorinated compounds containing double-bonded carbons (halogenated ethylenes), such as trichloroethylene (TCE) and tetrachloroethylene (PCE).

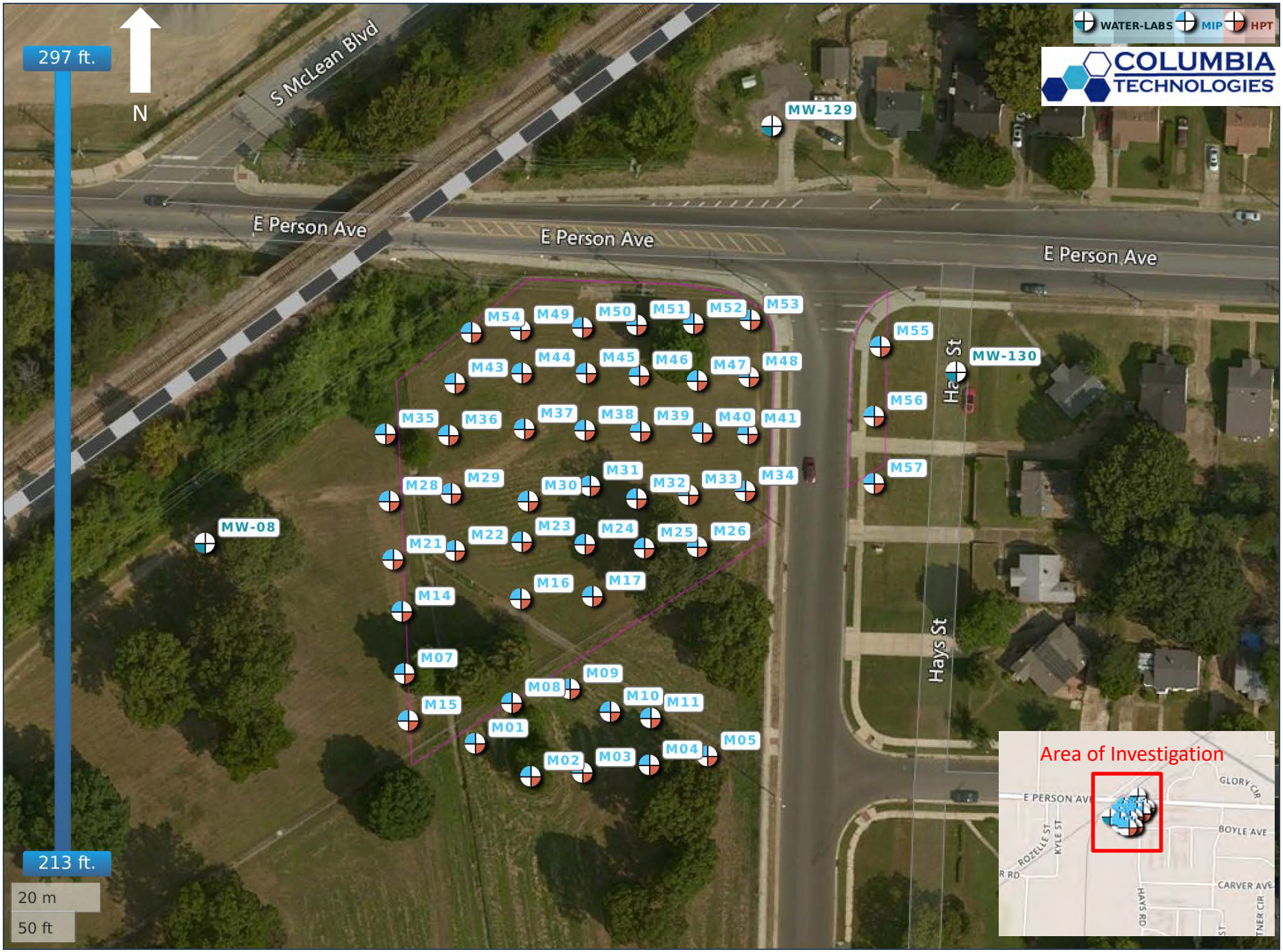
Flame Ionization Detector (FID)
The FID utilizes a hydrogen flame to combust compounds in the carrier gas and responds to any molecule with a carbon-hydrogen bond.

Halogen Specific Detector (XSD)
The XSD consists of a ceramic probe, platinum wire (anode) and platinum bead (cathode) mounted inside a high temperature reactor. The XSD is sensitive and provides a linear response to the quantity of halogen.

Electron Capture Detector (ECD)
The ECD detector consists of a sealed stainless steel cylinder containing radioactive Nickel-63, similar to a household smoke detector, that emits beta particles (electrons), which collide with the instrument carrier gas molecules, ionizing them in the process. When electro-negative compounds including chlorinated, fluorinated, or brominated molecules enter the cell, they immediately combine with the free electrons and provide a detector response. The ECD response is non-linear and variable depending on the atomic structure of the compound detected.

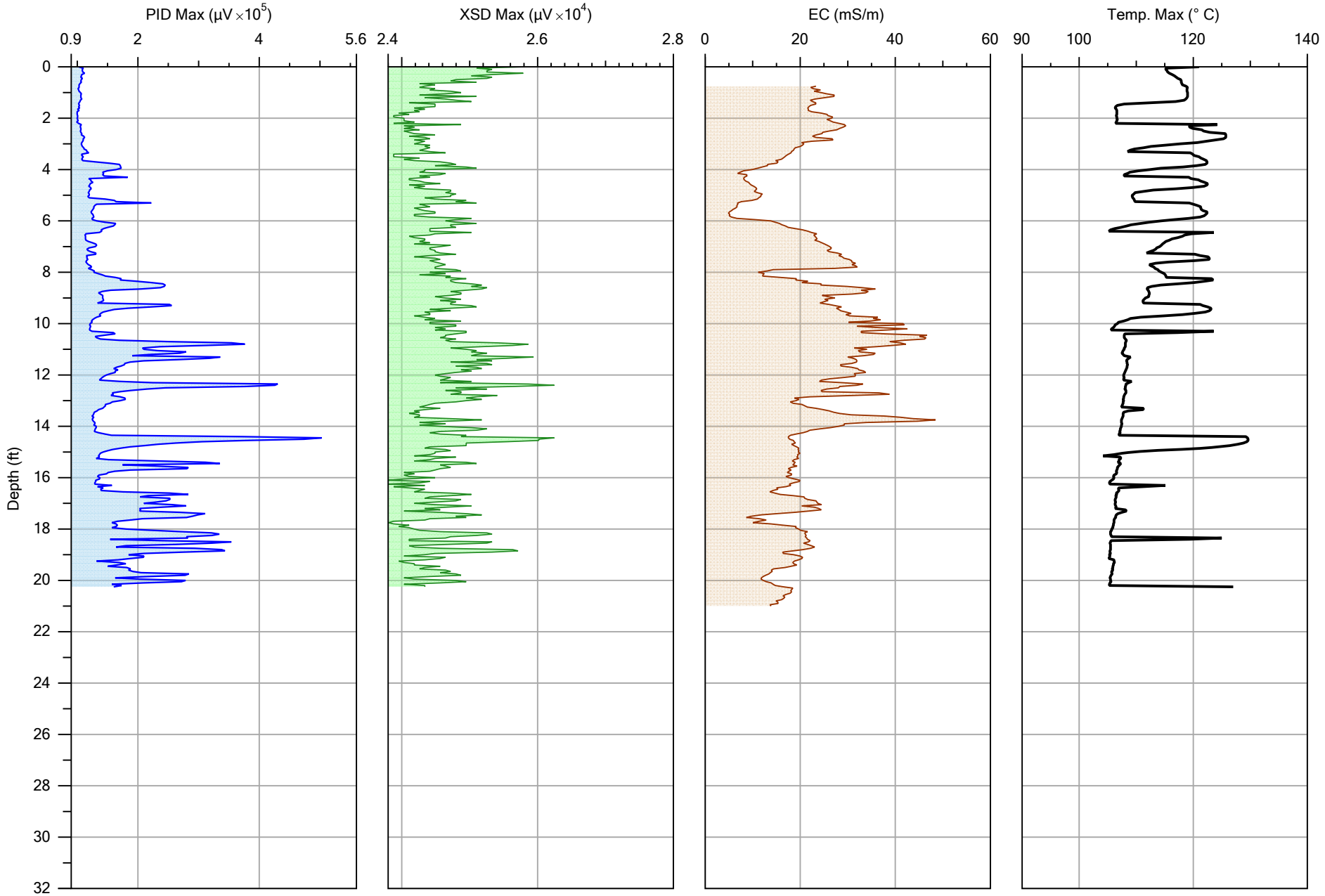
Low Level MIP (LL-MIP)
LL MIP can greatly increase the sensitivity of the MIP logging tool. The primary feature of LL MIP technology is that the carrier gas stream that sweeps the internal surface of the MIP membrane is pulsed. This results in an increase in the concentration of VOC contaminant delivered to the MIP detectors. This technology can provide the ability to track and map contaminant plumes down to concentrations at or below the 100 ppb range for some contaminants. Performance is highly dependent on the condition of the MIP system and the sensitivity of the installed detectors.

Laser Induced Fluorescence - UltraViolet Optical Scanning Tool (LIF-UVOST®)
The LIF/UVOST® system uses a high- energy laser to produce an ultraviolet light source for the detection of polycyclic aromatic hydrocarbons (PAHs). The LIF/ UVOST® system employs a excitation beam of light from a XeCl laser at 308 nm light pulsed at 50 megahertz. Any residual phase PAHs present in the soil grains will absorb this photon energy in the form of fluorescence. This fluorescence is returned to the optical detection system via a second silica fiber optic line, measured, and recorded in real time across four specific wavelengths, namely 350, 400, 450, and 500 nm. Individual LIF/UVOST® logs consist of a primary graph of total fluorescence as a percentage of a Reference Emitter (RE) test standard versus depth, an information box and up to five waveform callouts. These callouts present the fluoresce intensity of each of the monitored wavelengths on the Y-axis (in microvolts (uV)). The four peaks are due to the fluorescence at the four monitored wavelengths called channels. Each channel is assigned a color. Various NAPLs will have a unique waveform signature based on the relative amplitude of the four channels and/or the broadening of one or more of the channels. Performance Testing: All detector systems are tested before and after each survey location to verify proper system response to known reference values. Records of these performance tests are kept with the project and system operating logs. UVOST® is a registered trademark of Dakota Technologies, Inc.


WATER-LABS MIP HPT
COLUMBIA TECHNOLOGIES
297 ft.
213 ft.
N
20 m
50 ft
S McLean Blvd
E Person Ave
E Person Ave
E Person Ave
Hays St
Hays St
MW-129
MW-130
MW-08
M01
M02
M03
M04
M05
M07
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M09
M10
M11
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M16
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M57
Area of Investigation
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GLORY CIR
BOYLE AVE
CARVER AVE
ROZELLE ST
KYLE ST
HAYS RD

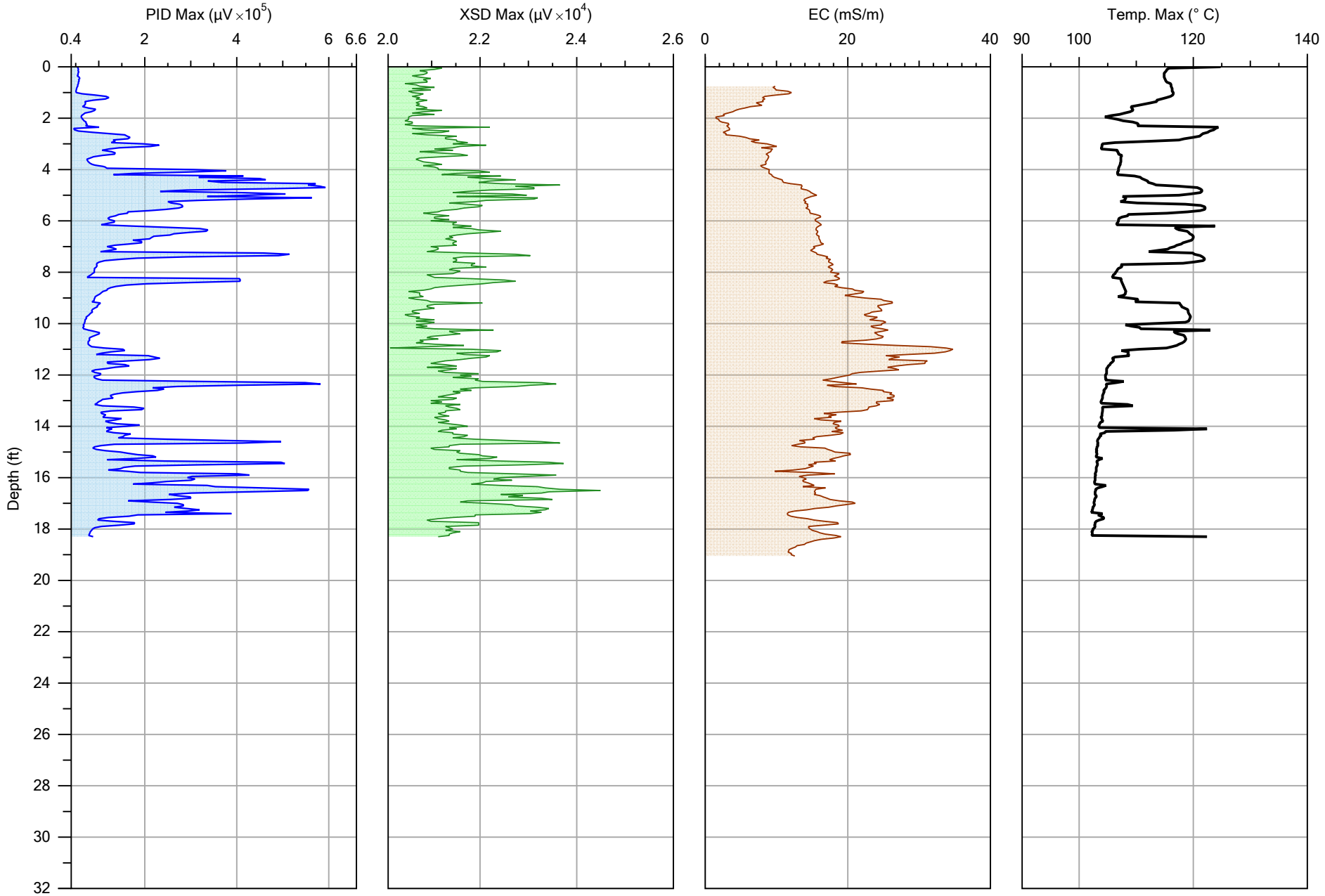
MIP/EC Logs, Individual Scale

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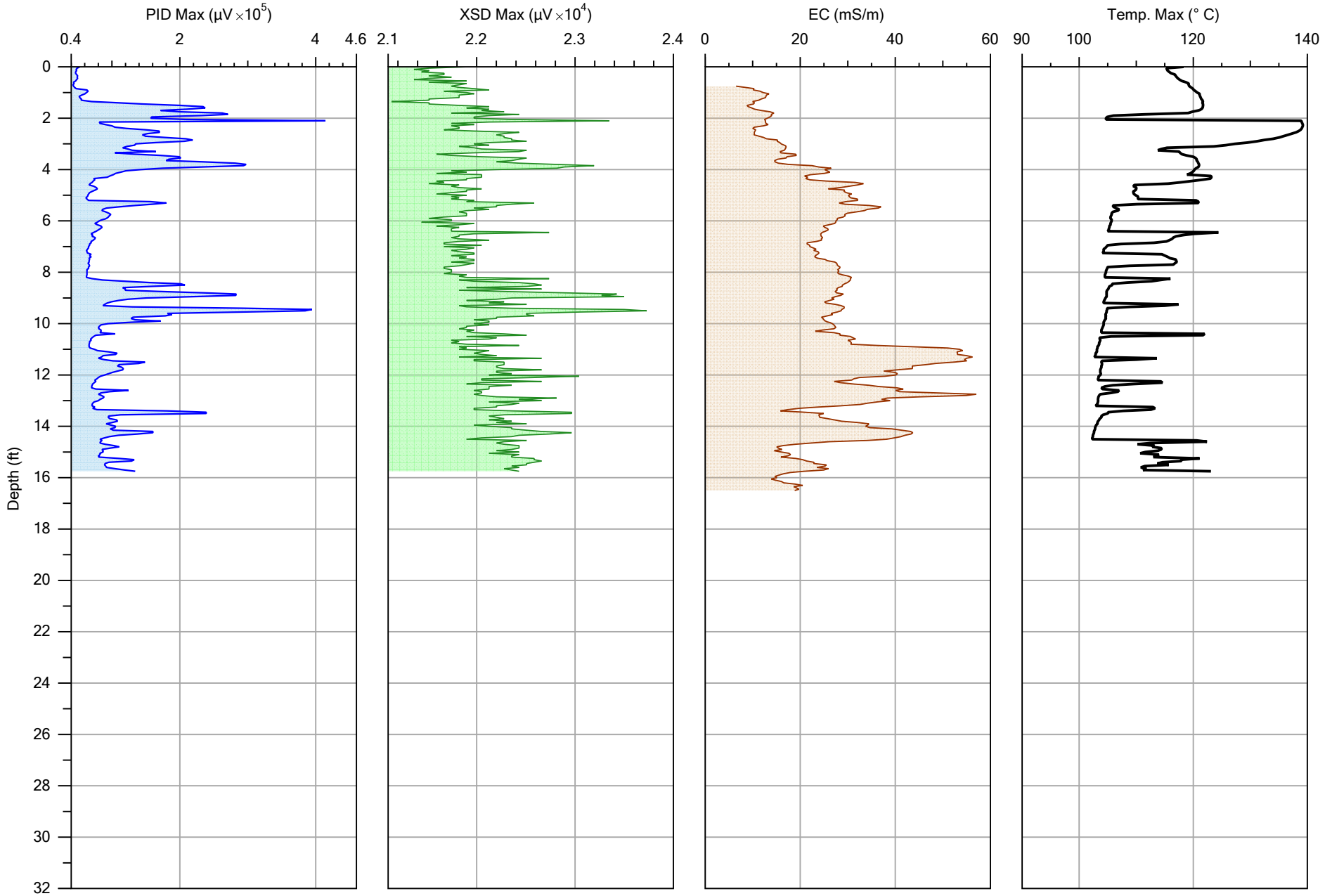
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Project ID: Dunn Field, DDMT	Client: Trinity	Location:



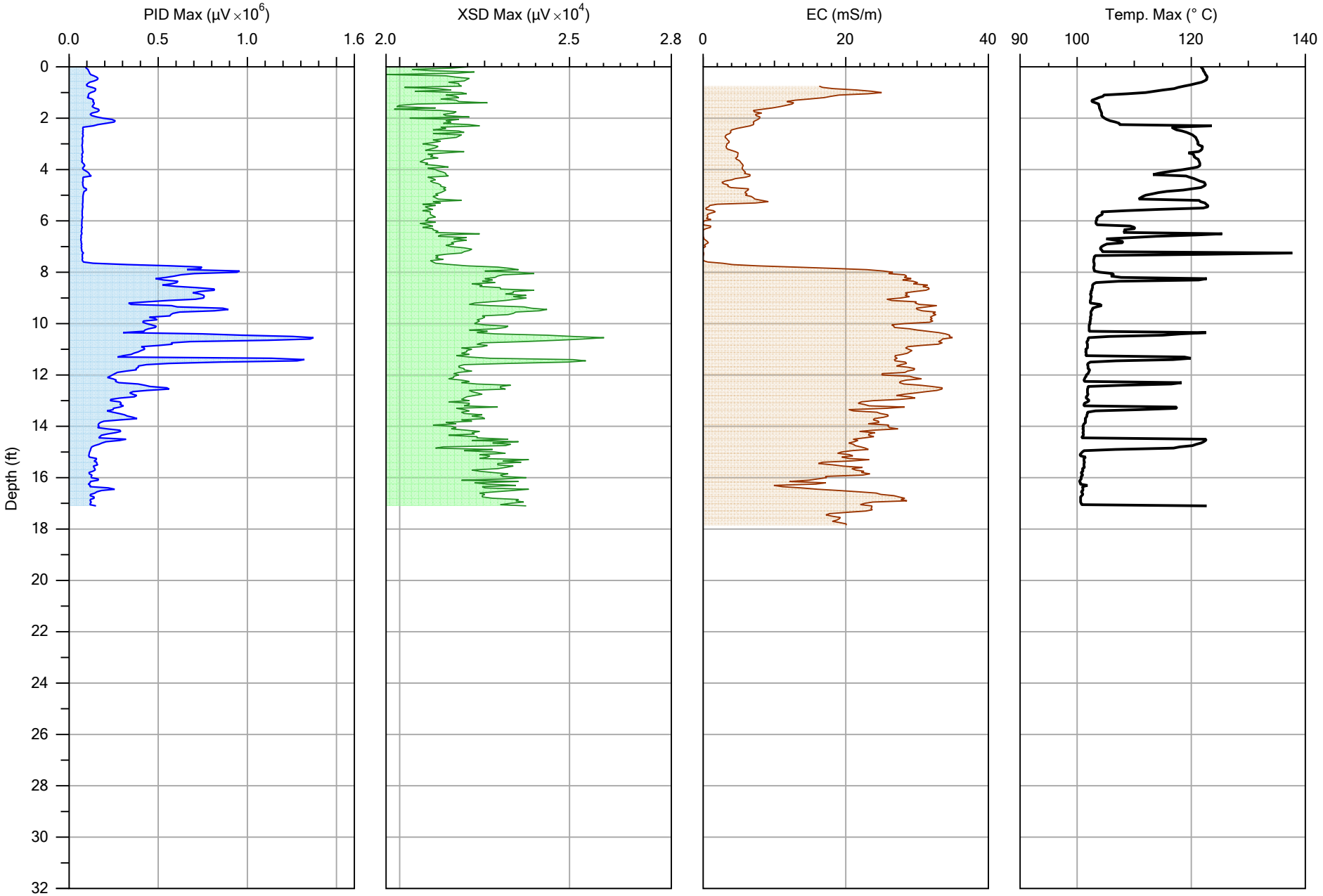
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Project ID: Dunn Field, DDMT	Client: Trinity	Location:



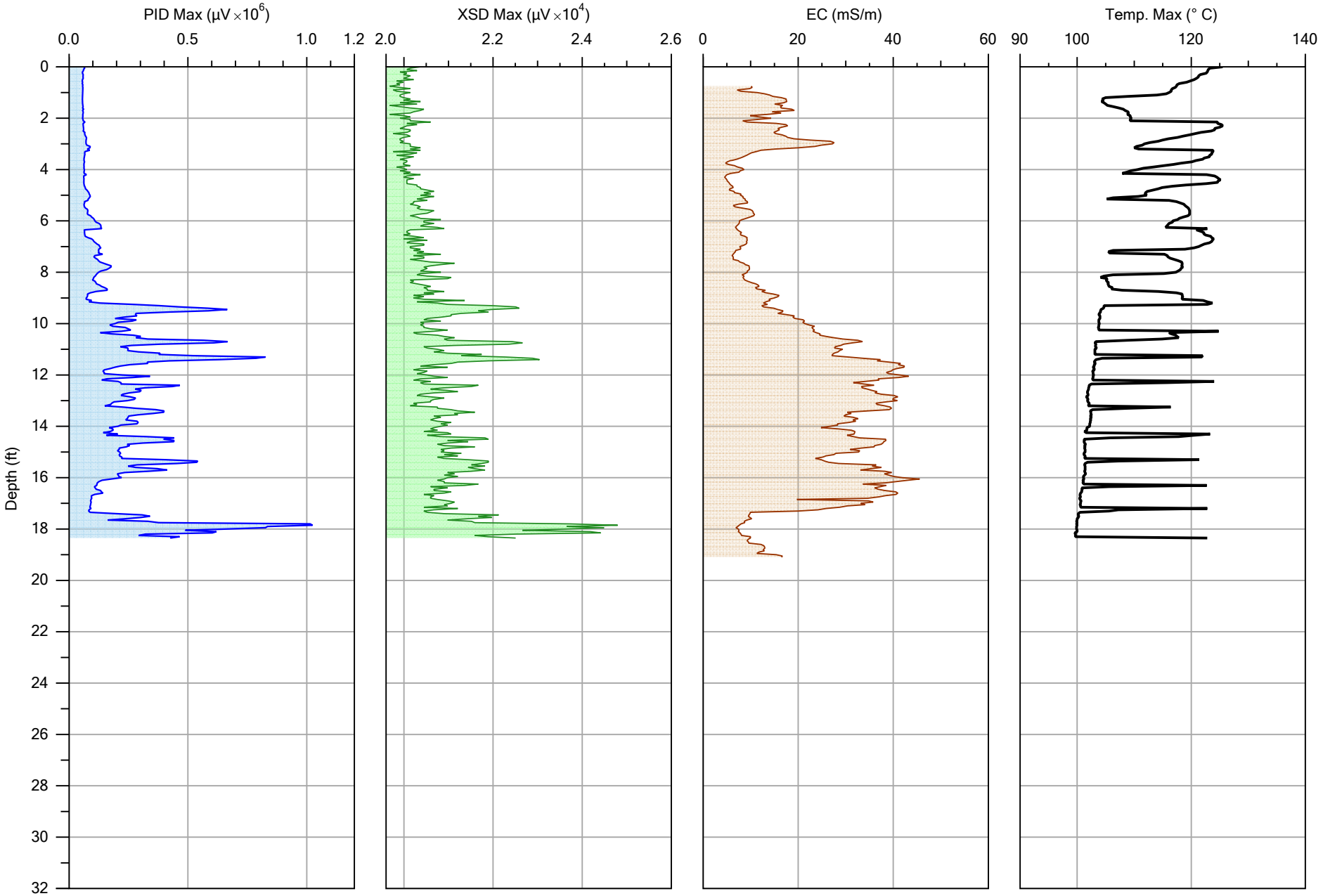
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Project ID: Dunn Field, DDMT	Client: Trinity	Location:



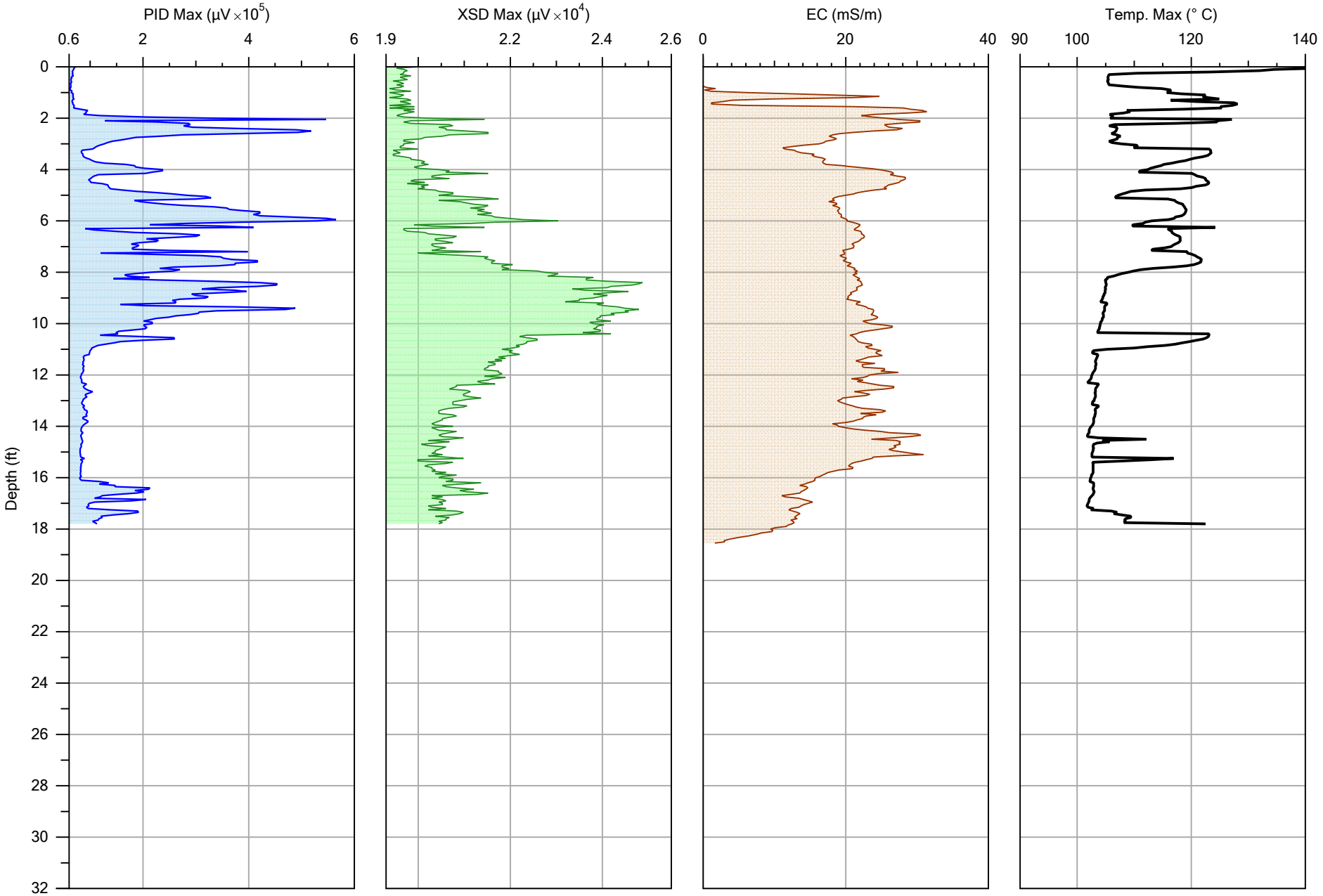
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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



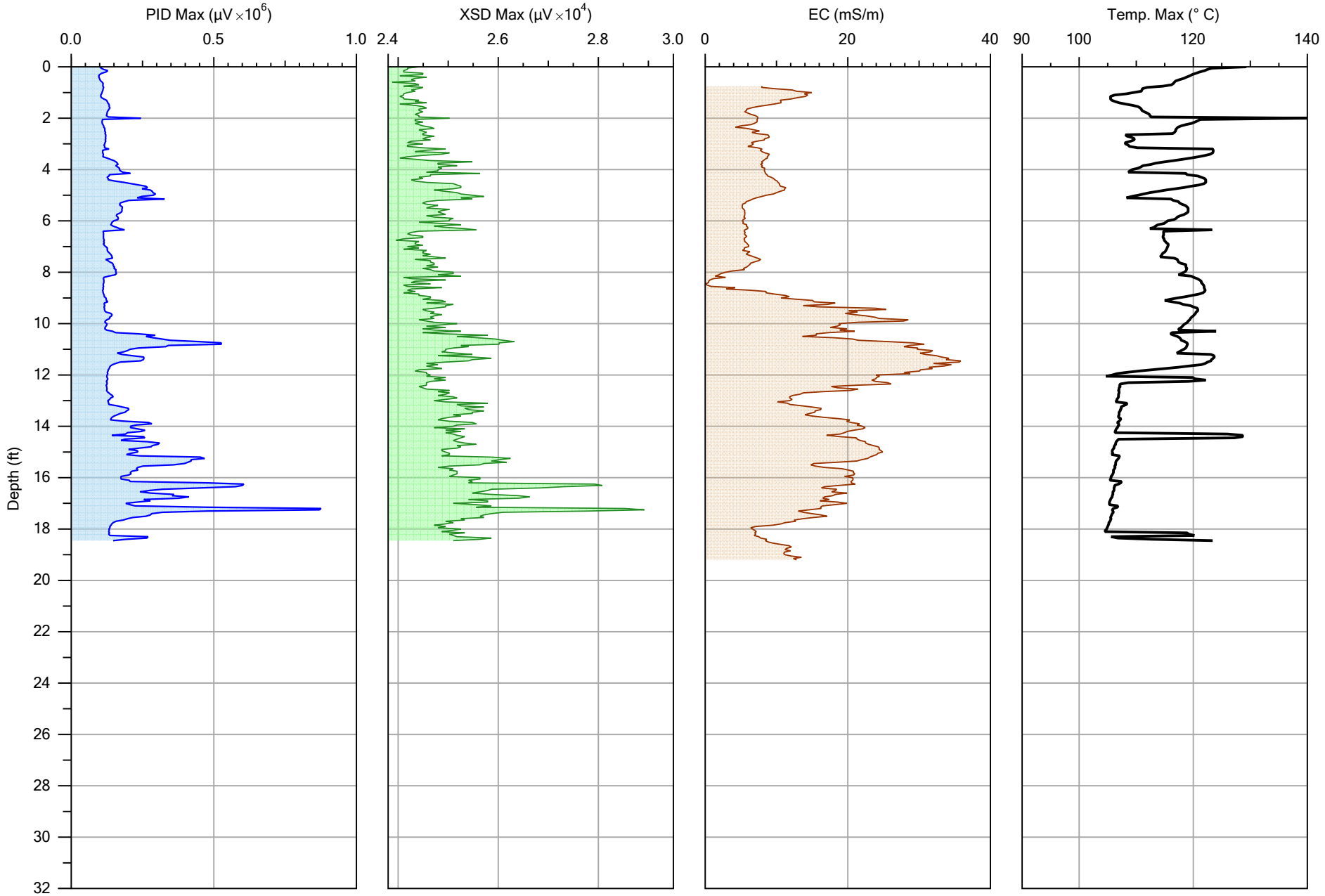
COLUMBIA TECHNOLOGIES

		File: M05.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



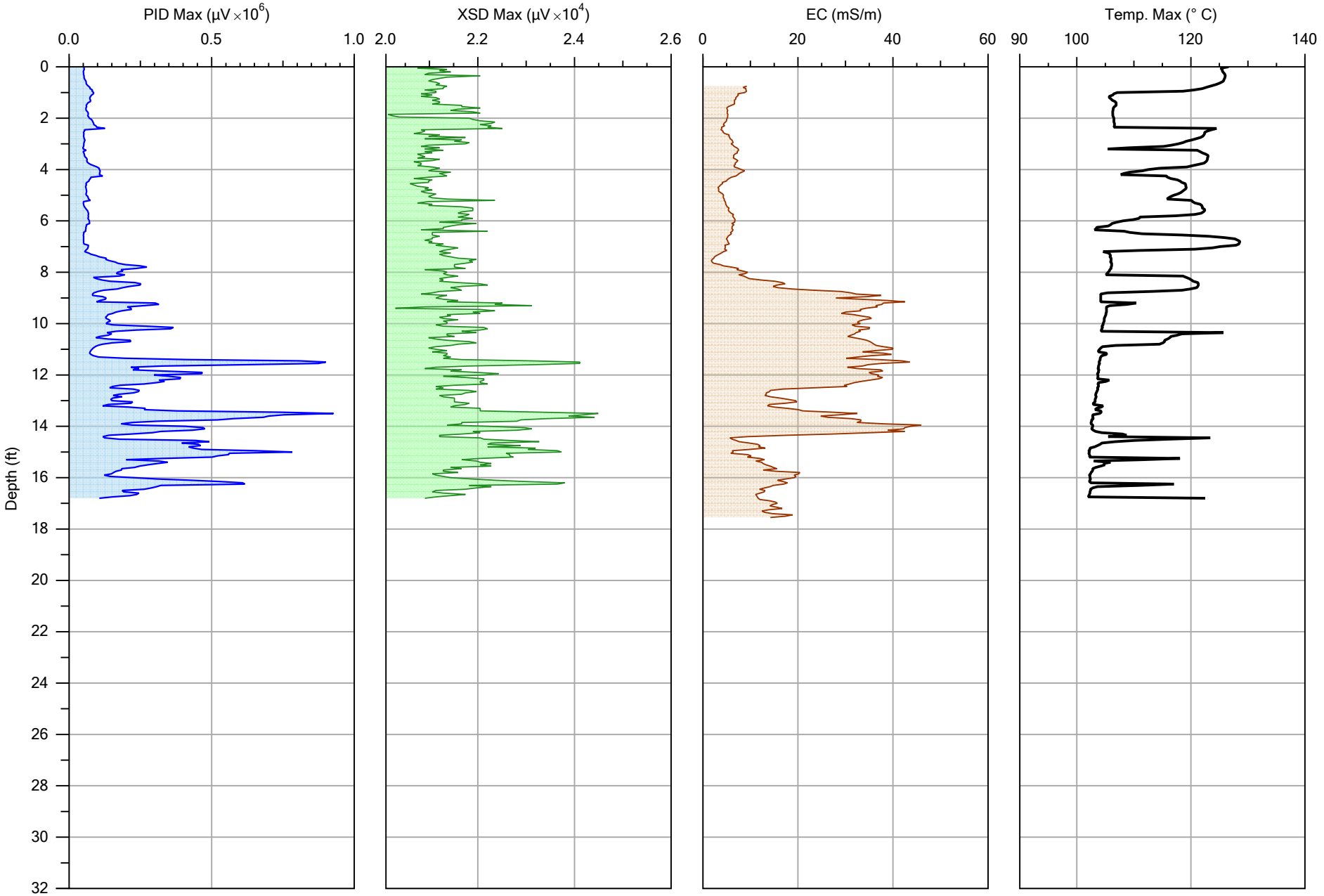
COLUMBIA TECHNOLOGIES

		File: M07.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



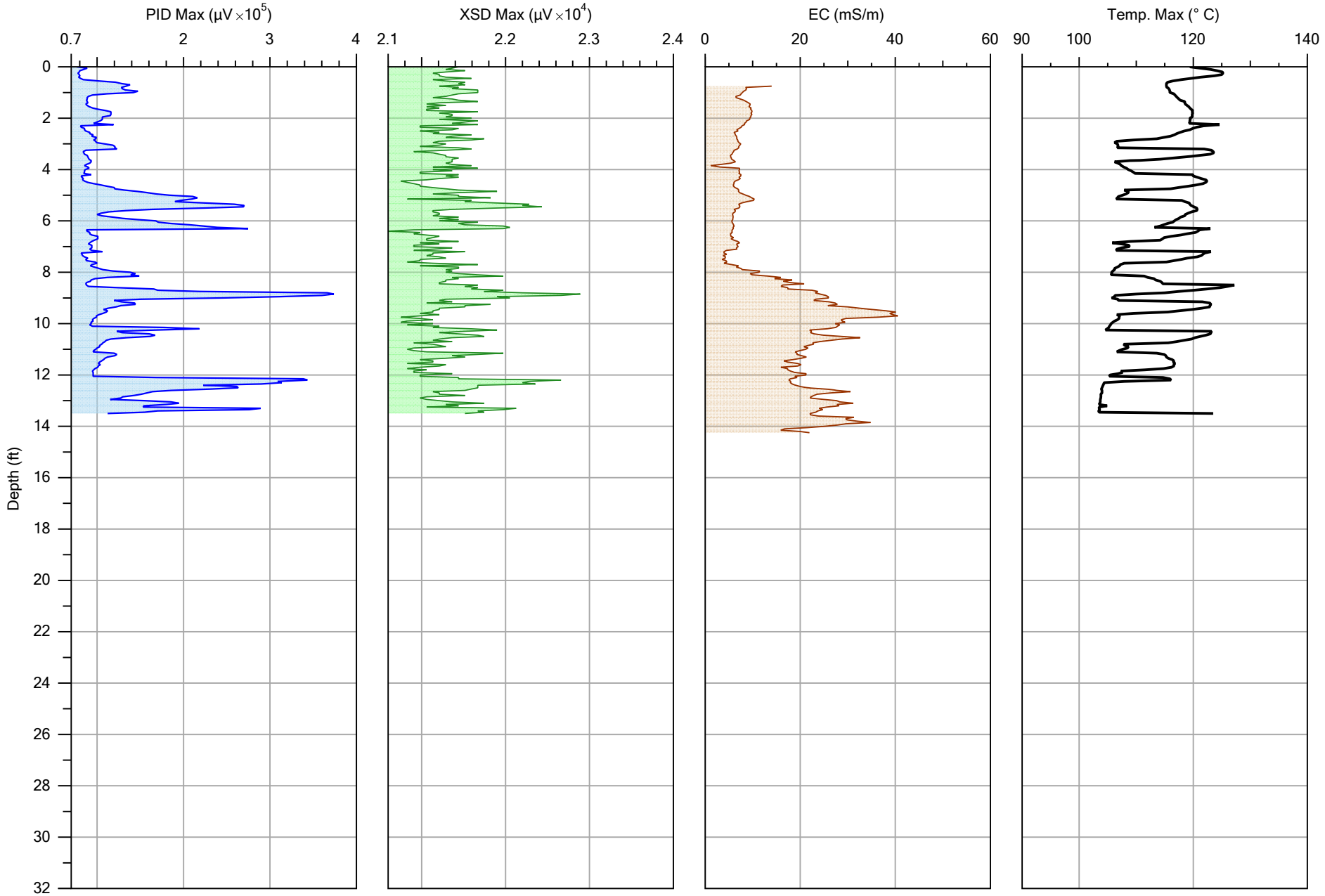
COLUMBIA TECHNOLOGIES

		File: M08.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



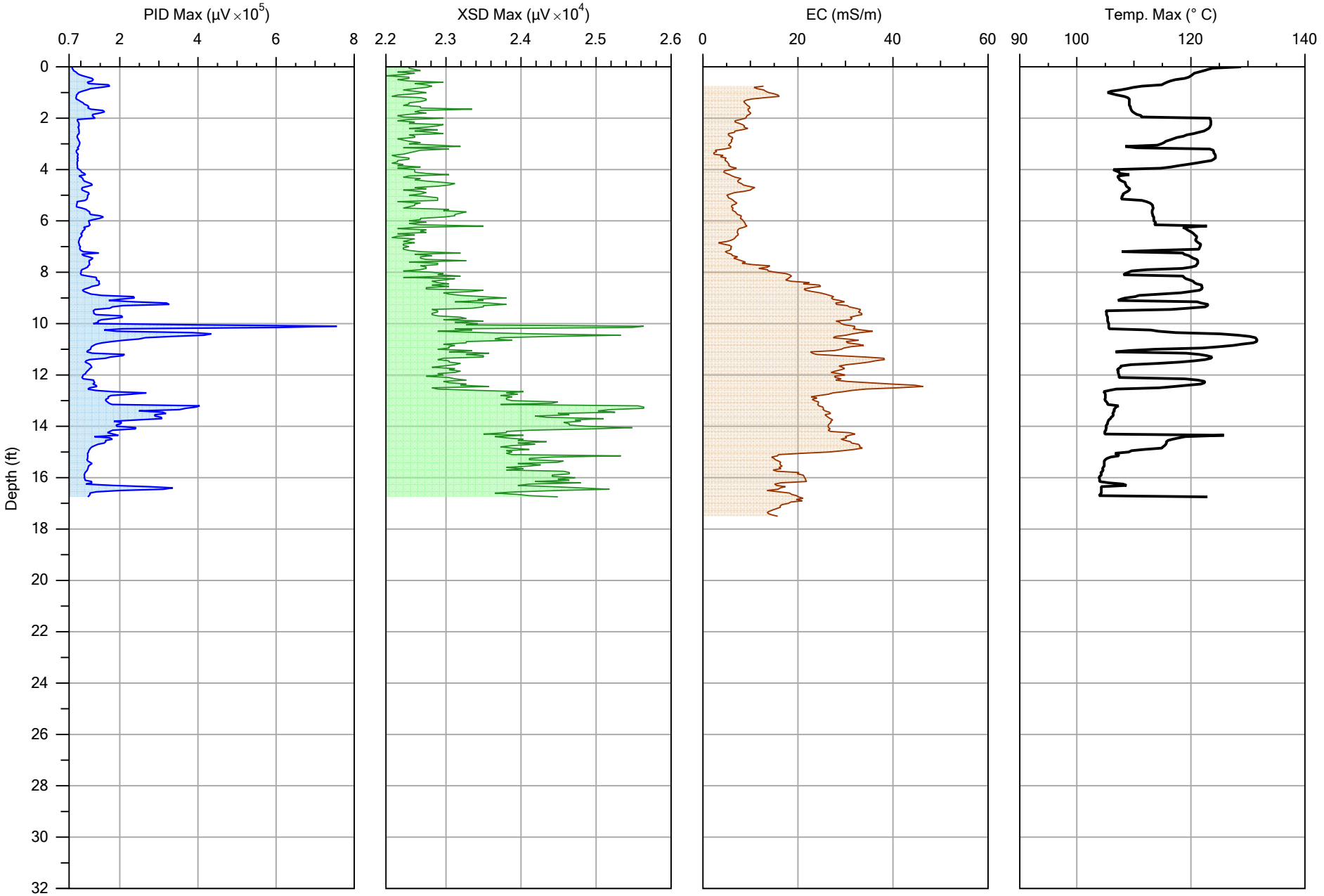
COLUMBIA TECHNOLOGIES

		File: M09.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



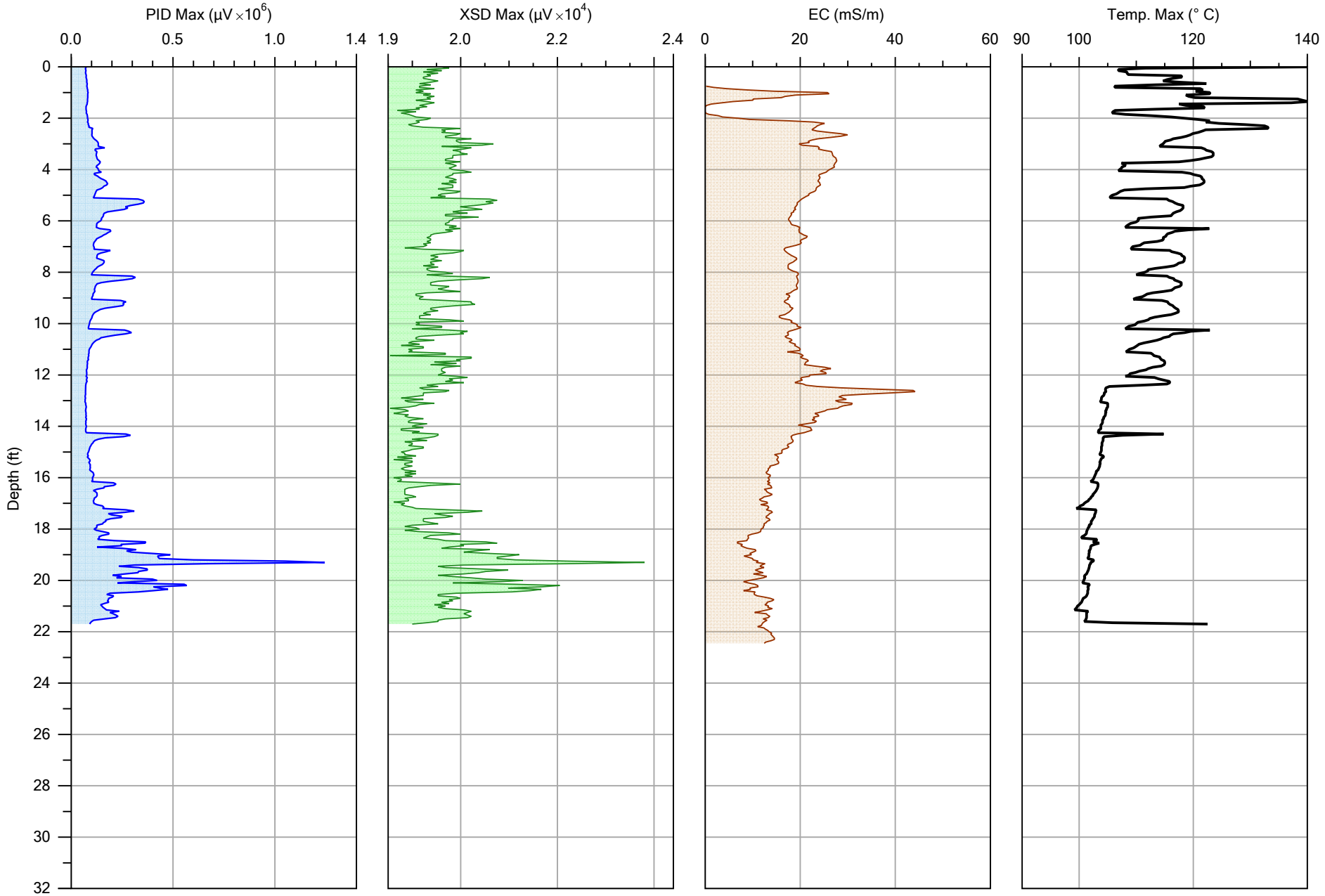
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



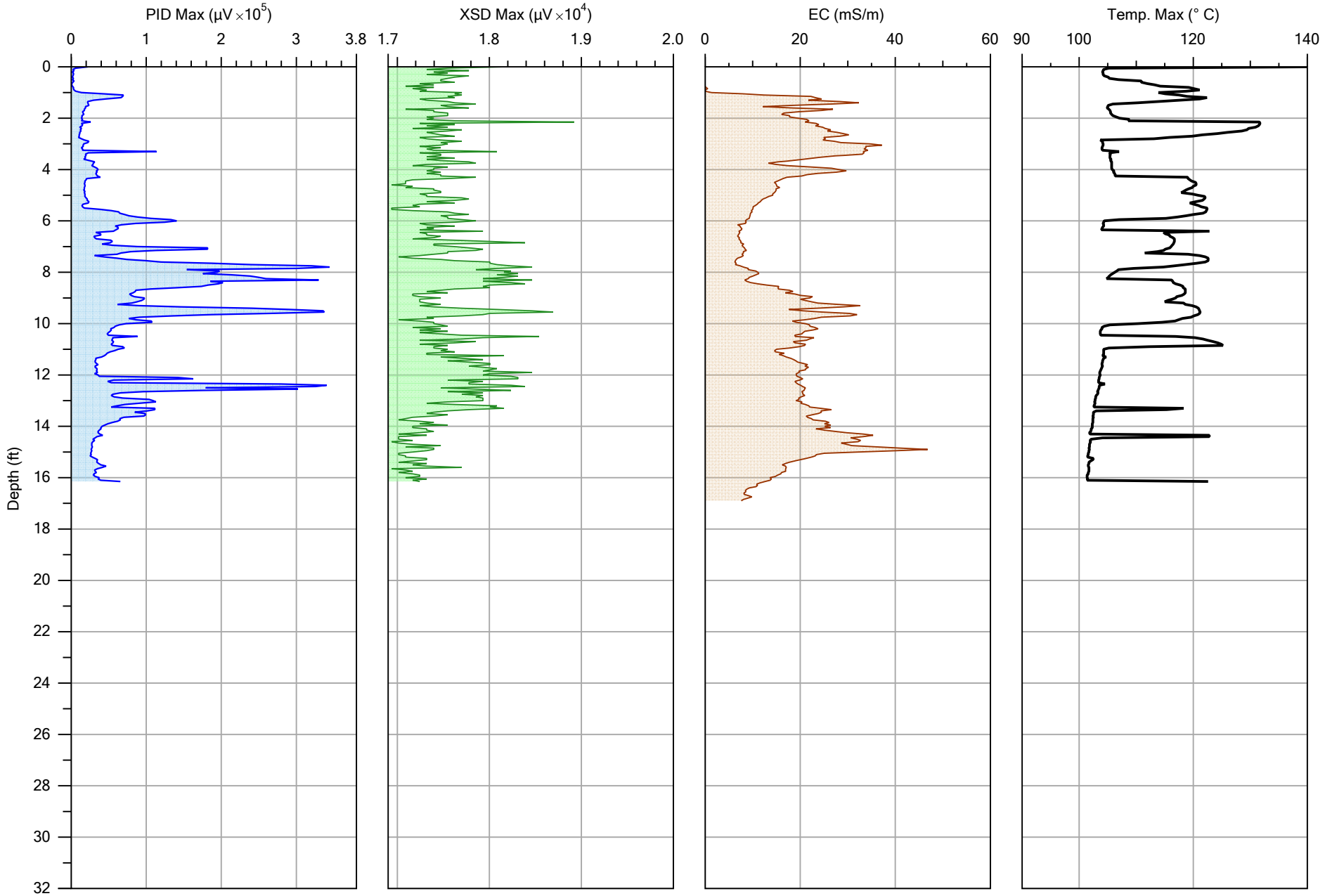
COLUMBIA TECHNOLOGIES

		File: M11.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



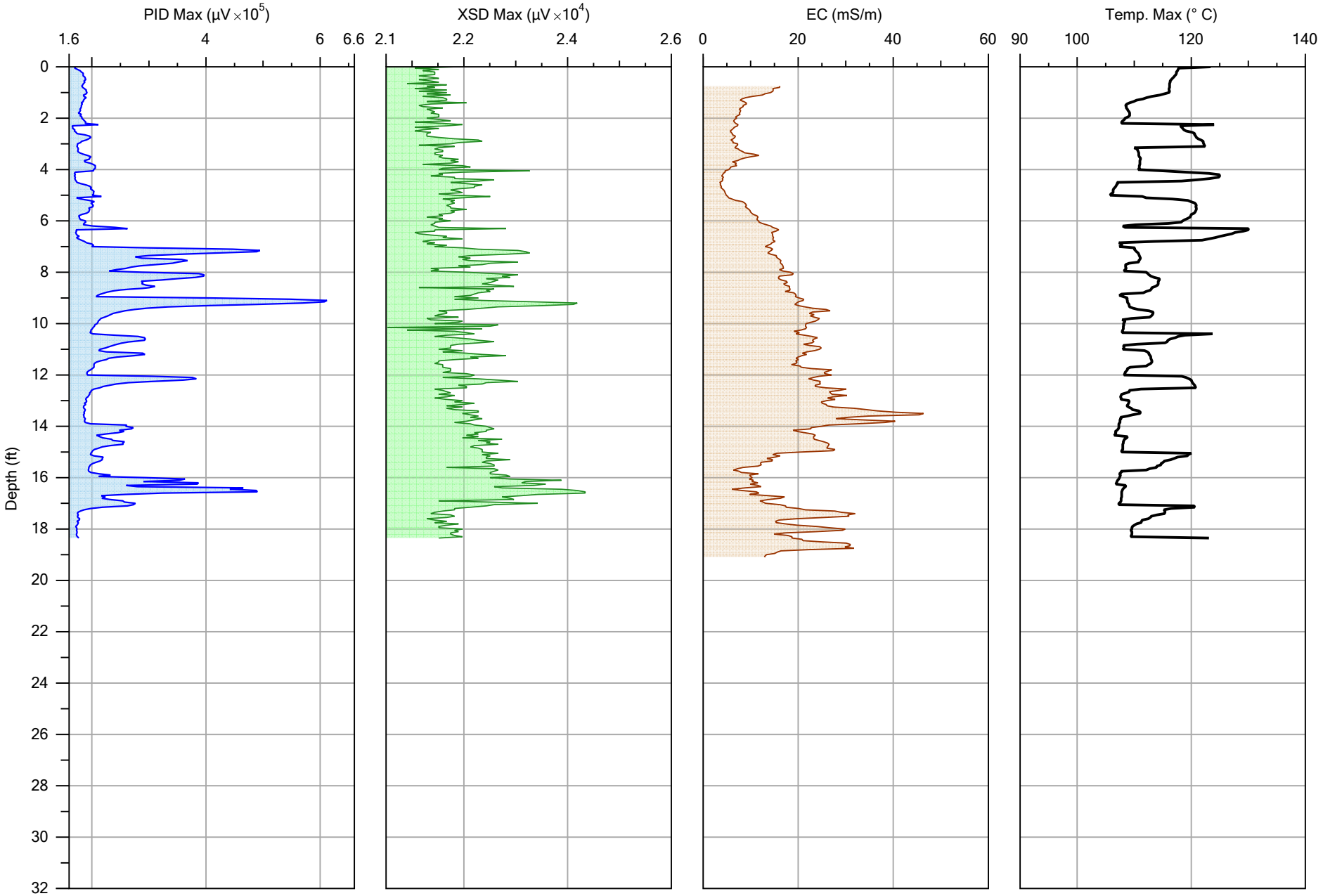
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



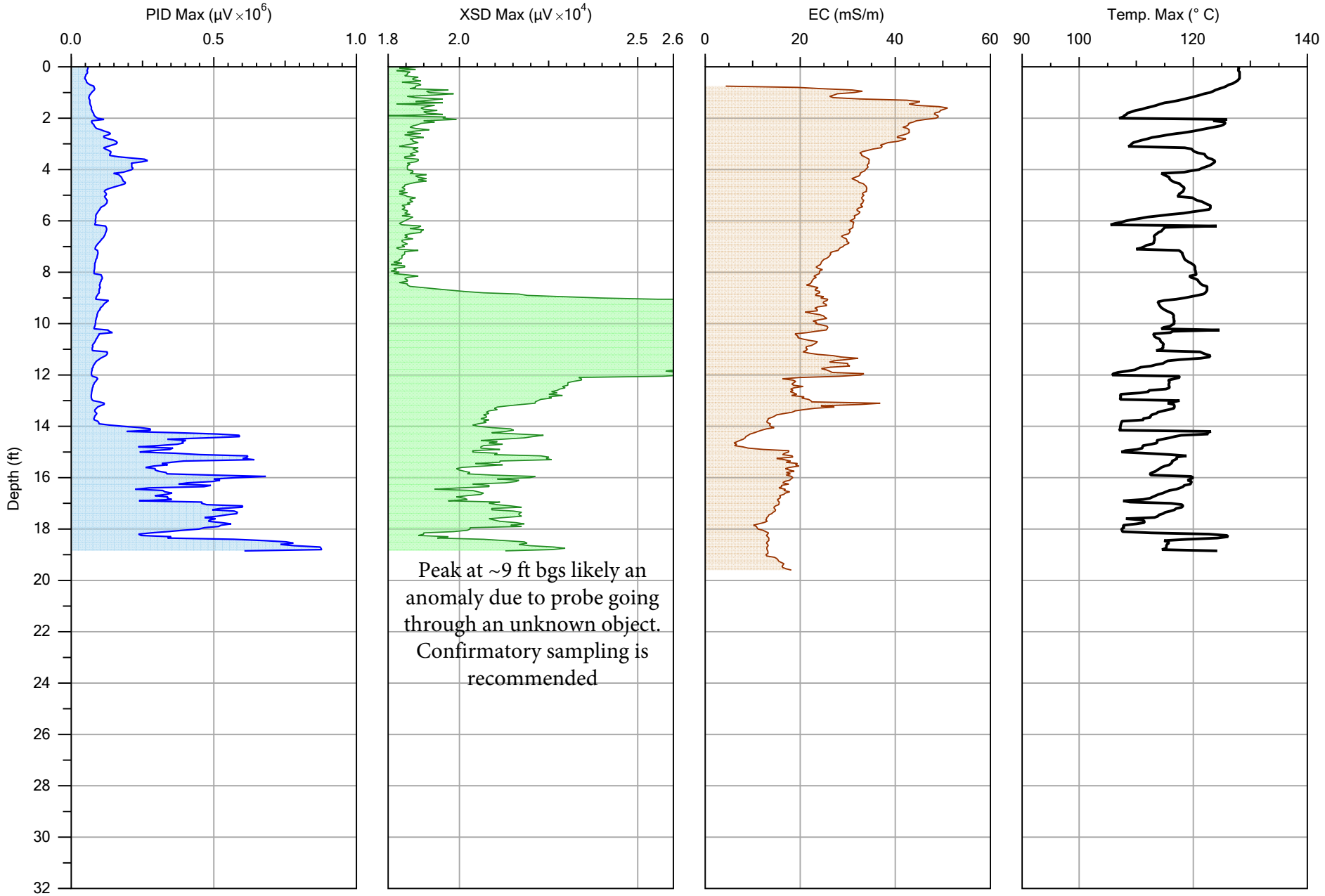
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



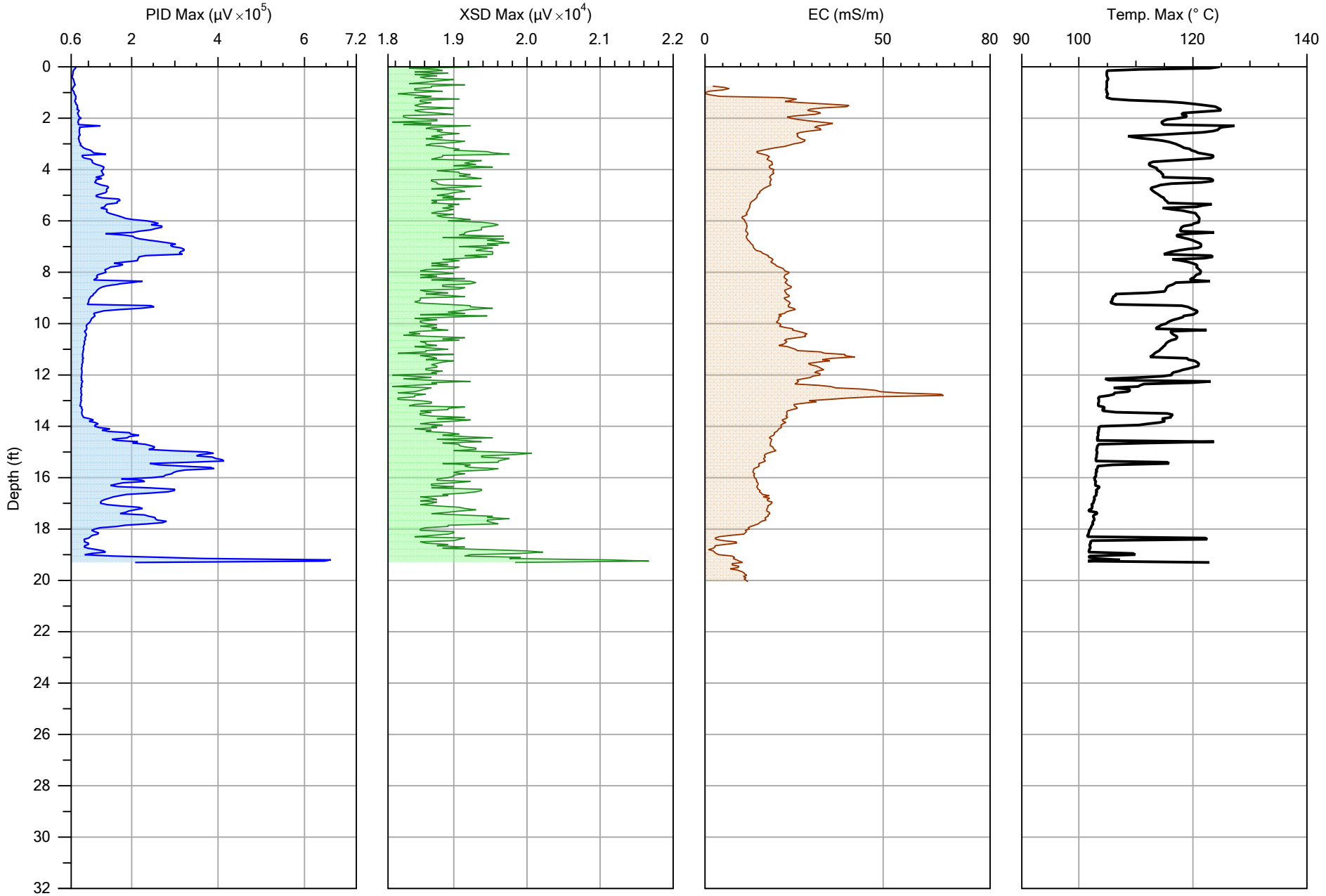
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



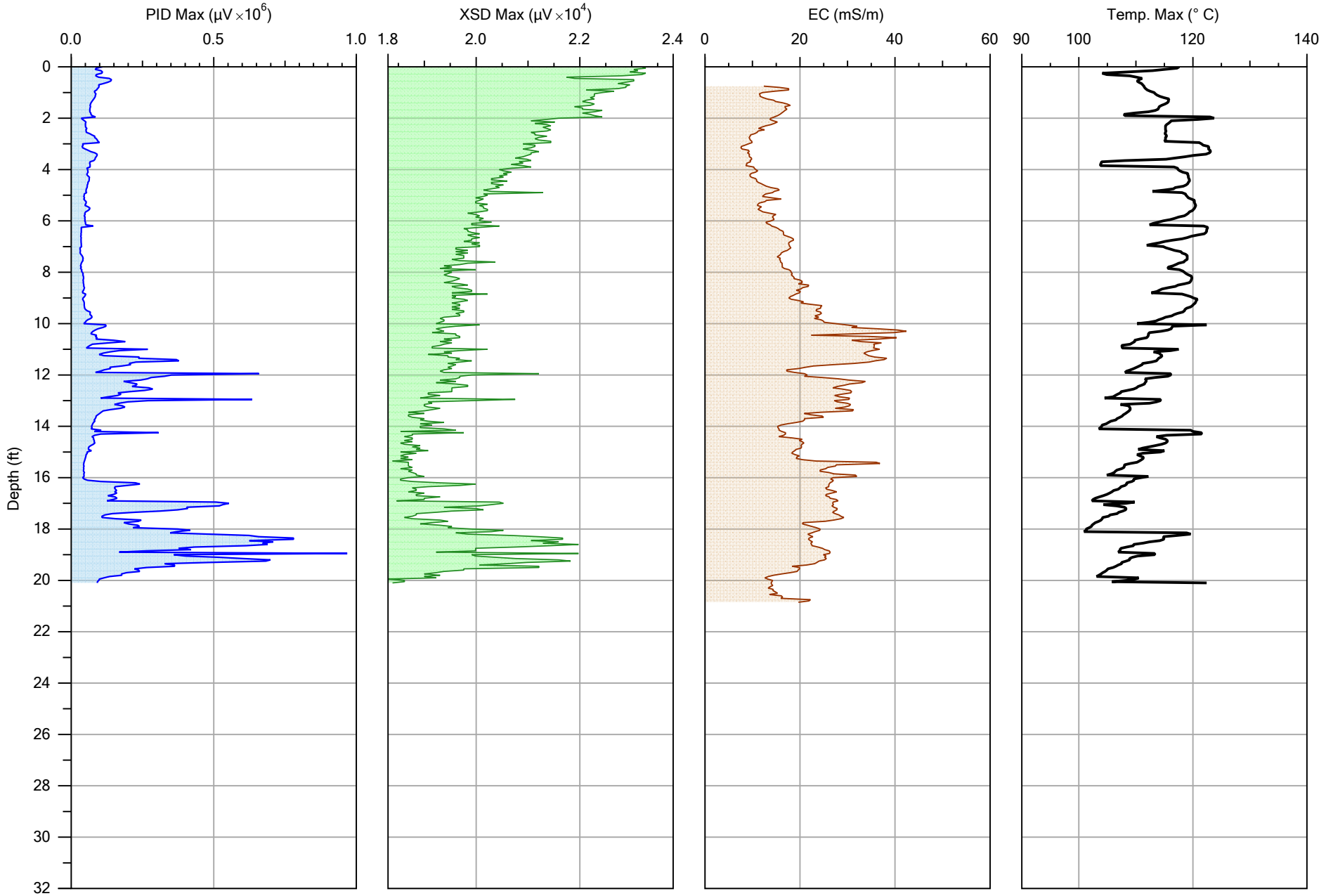
COLUMBIA TECHNOLOGIES

		File: M17.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



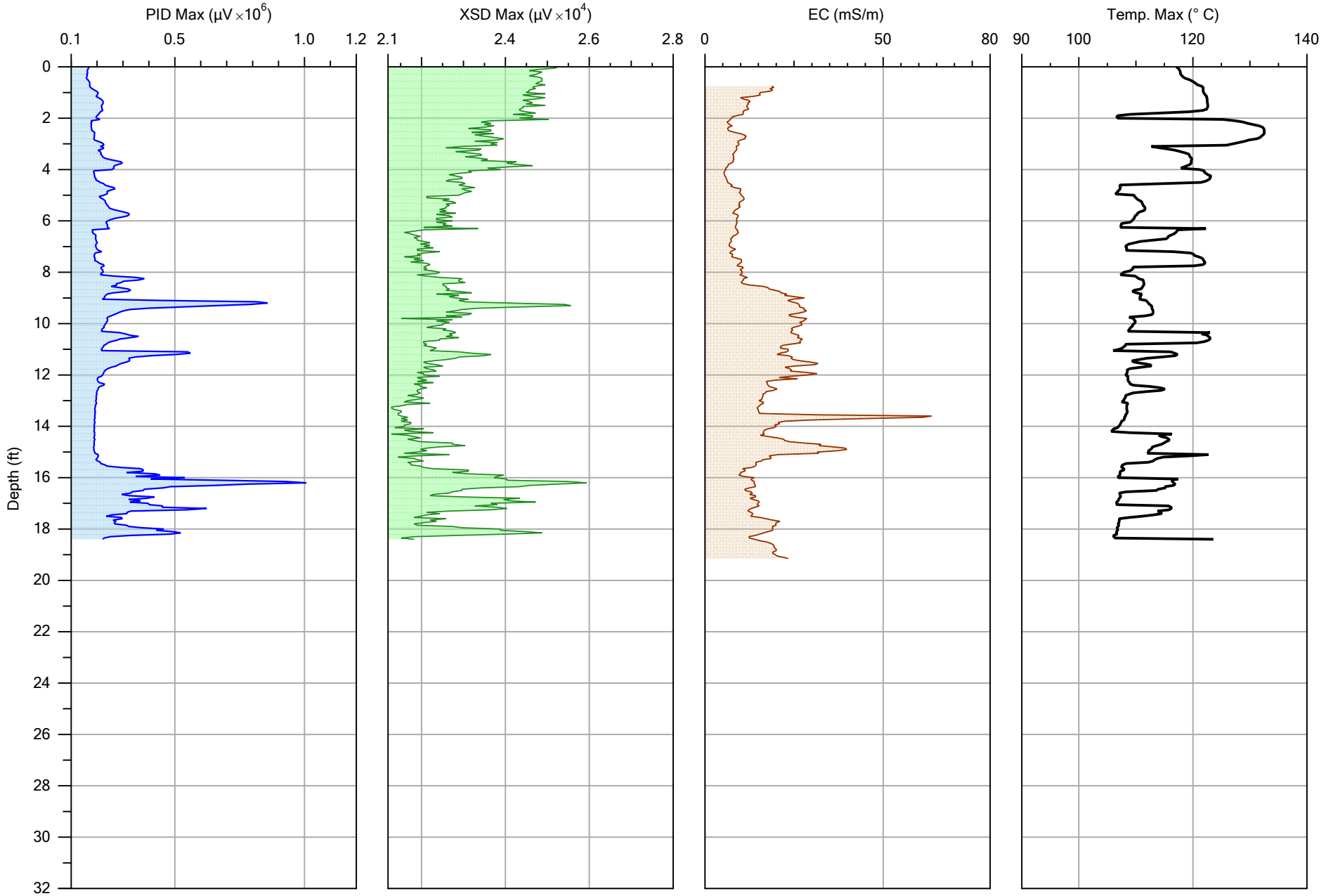
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



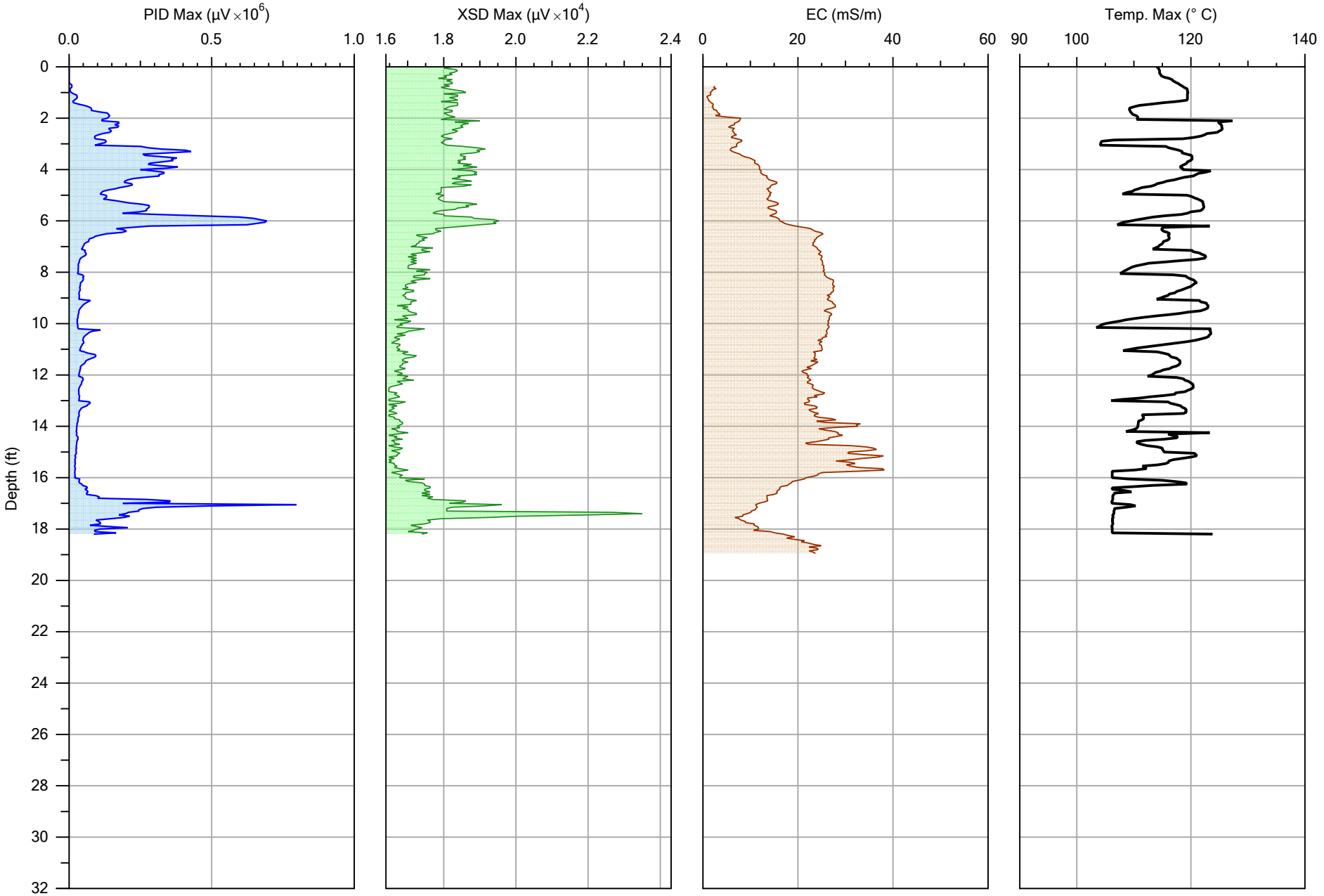
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



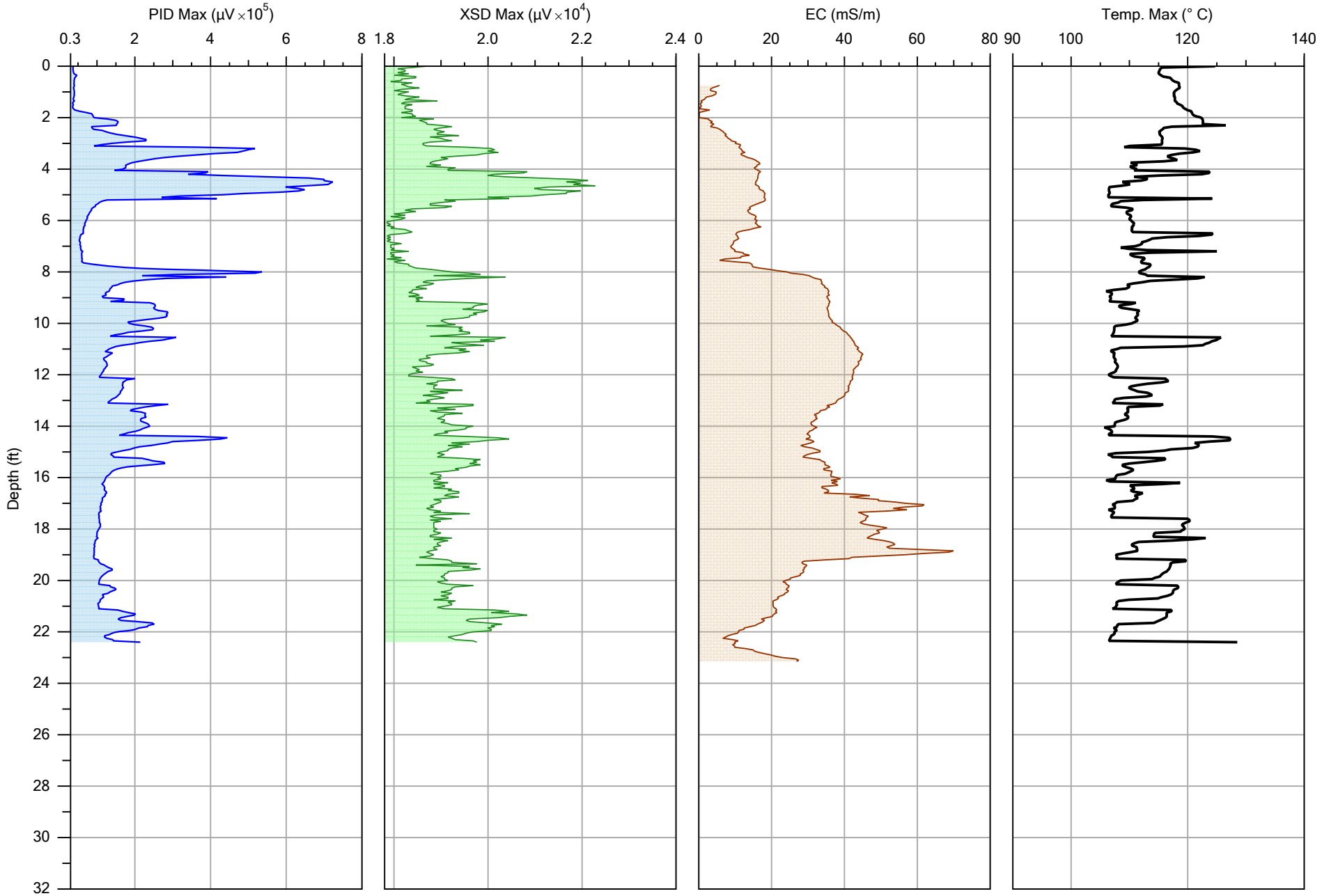
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



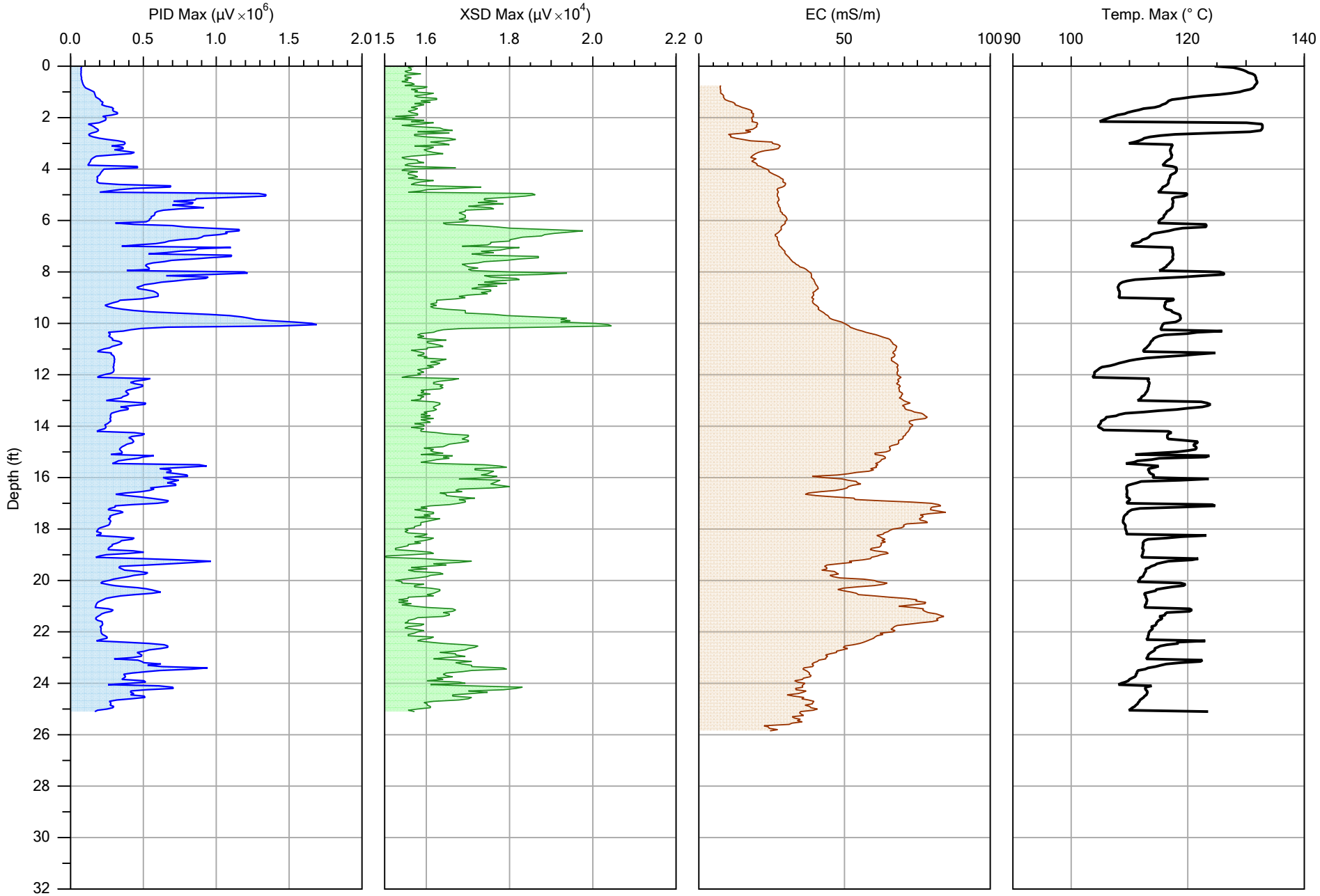
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



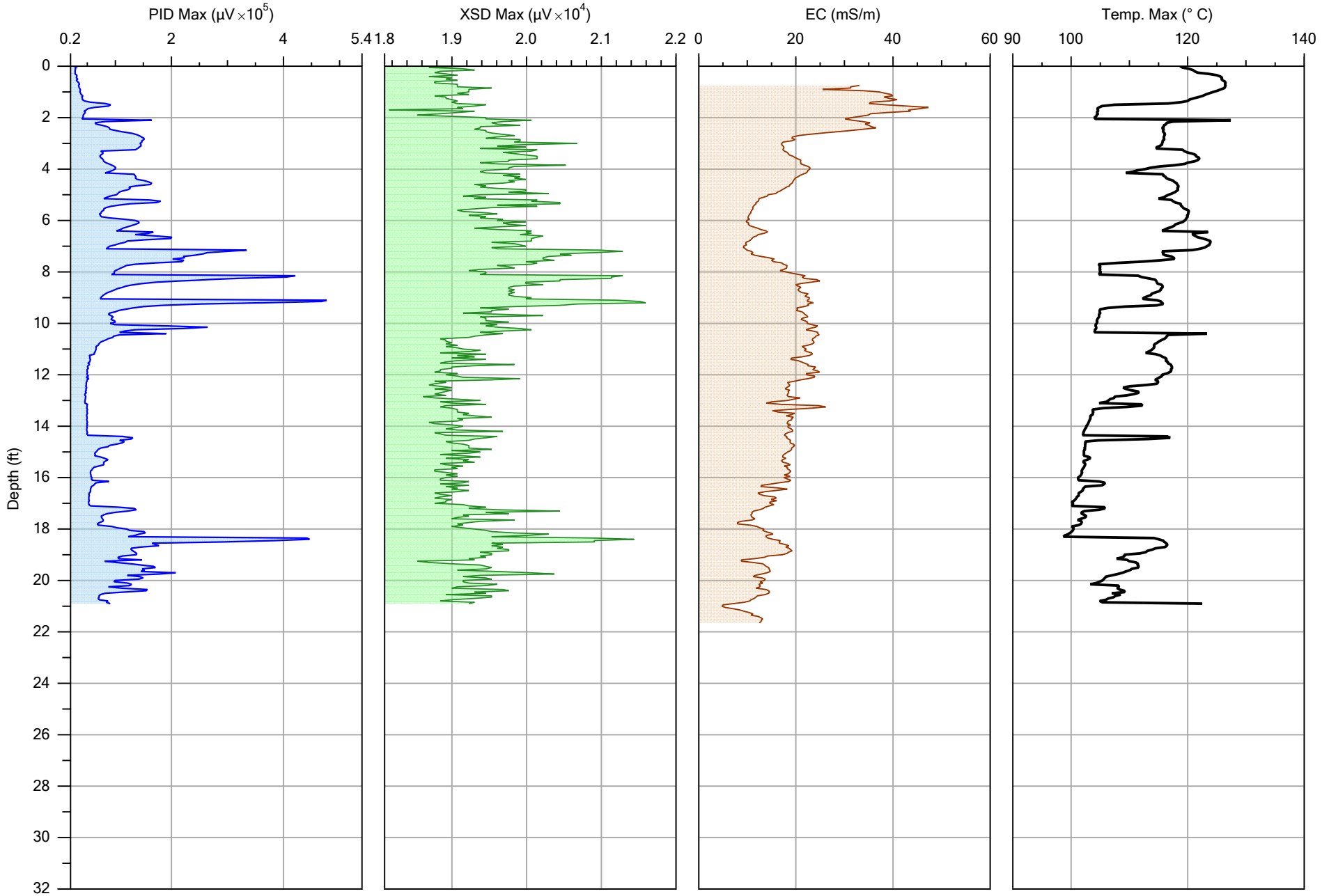
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



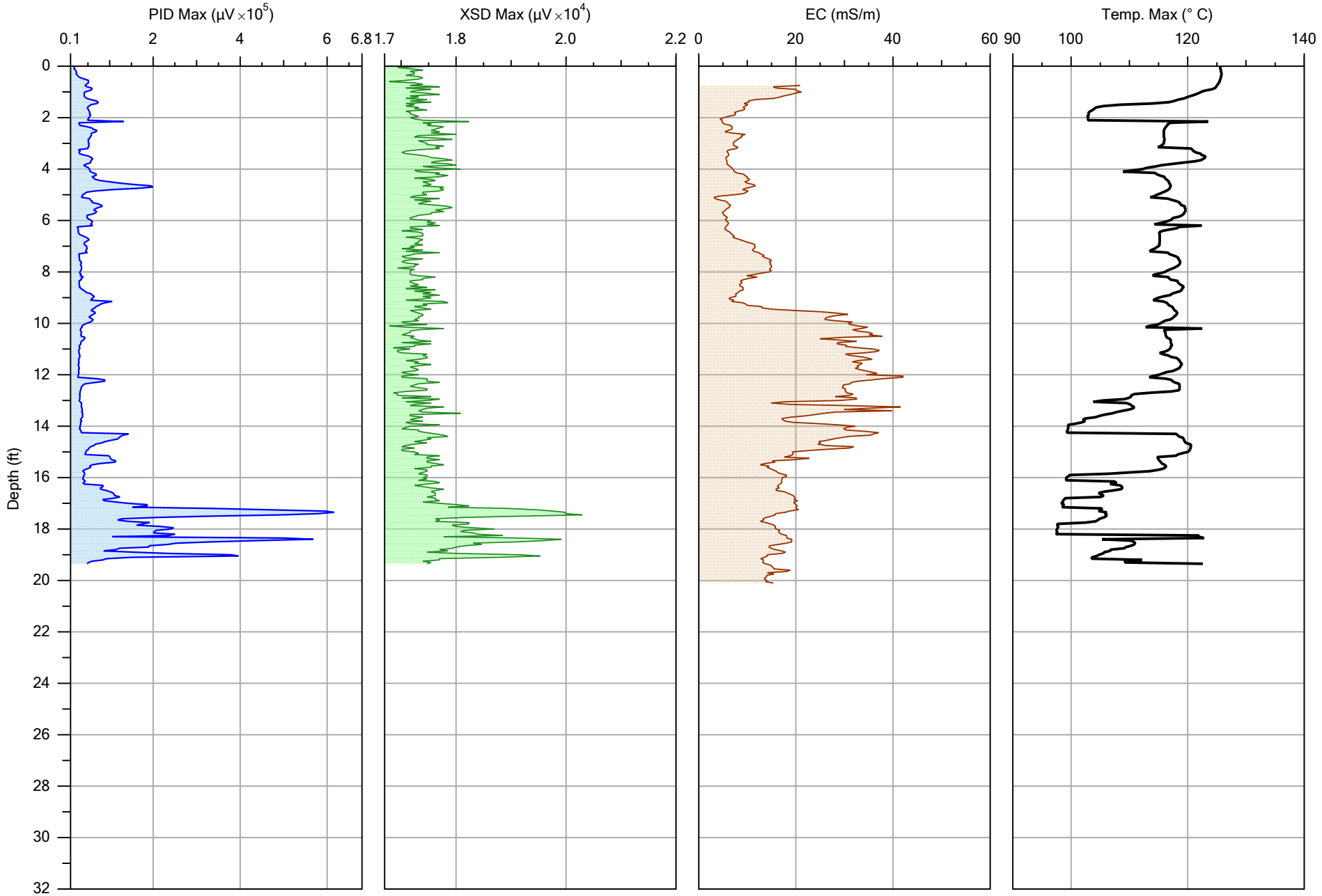
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



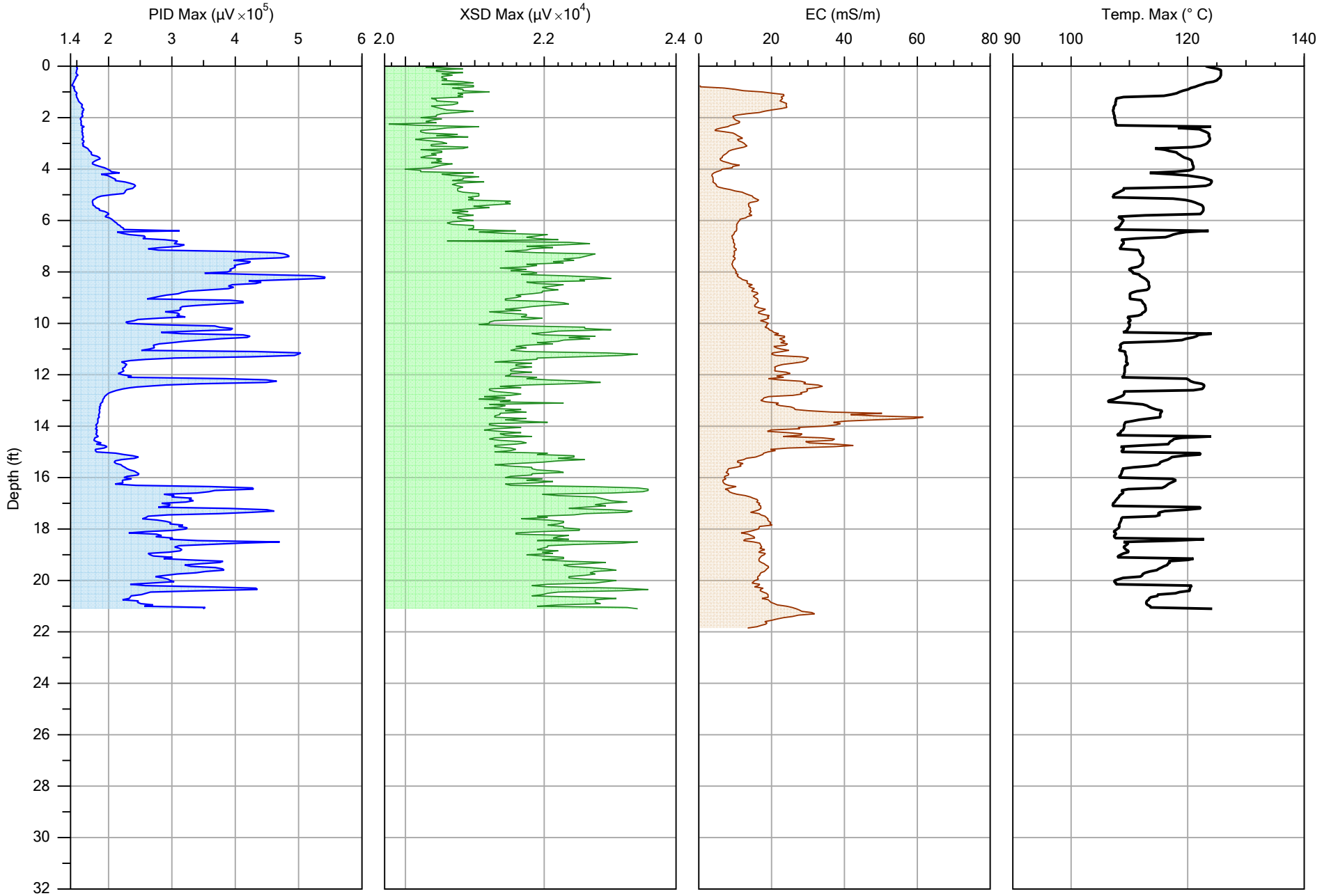
COLUMBIA TECHNOLOGIES

		File: M28.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



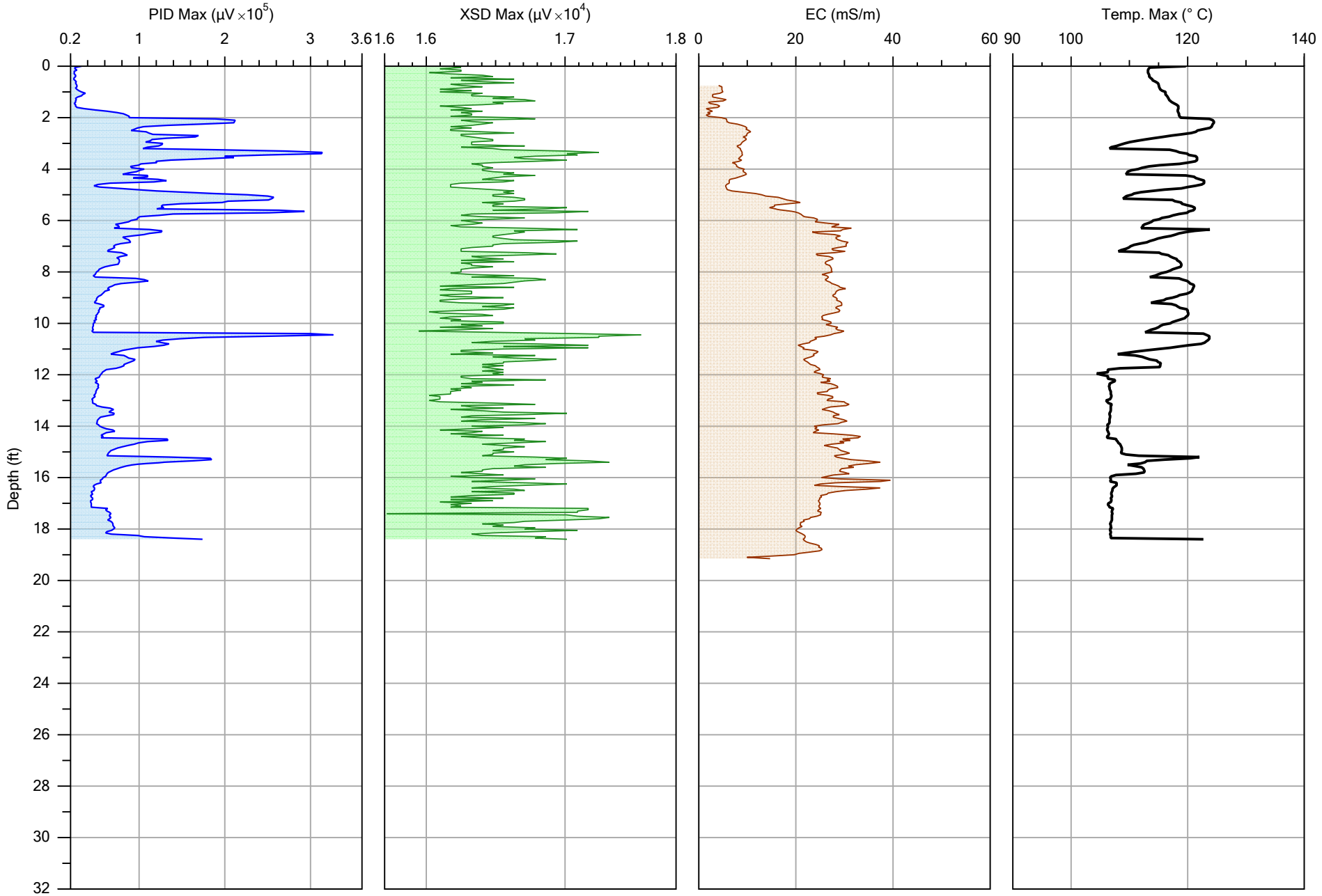
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



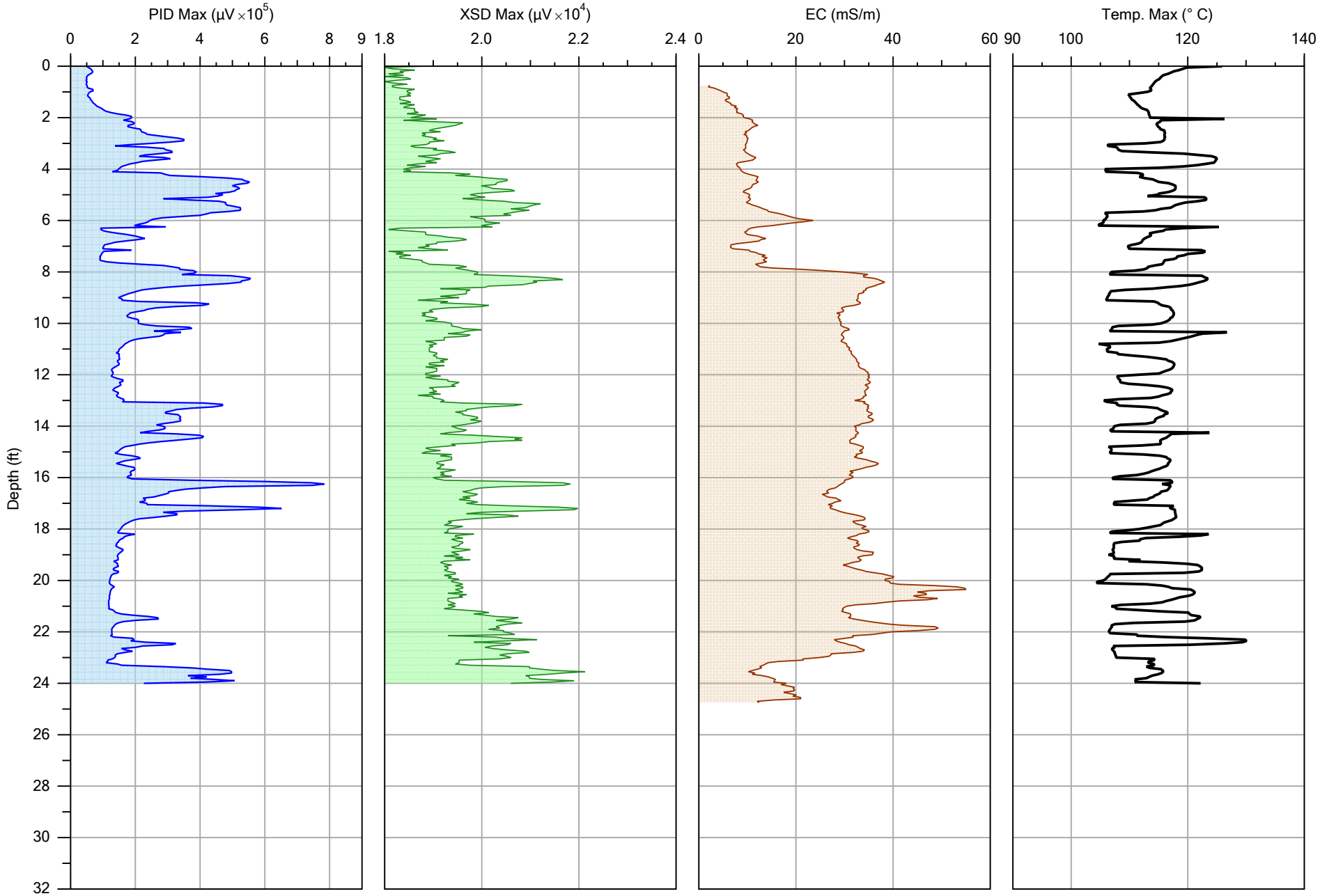
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



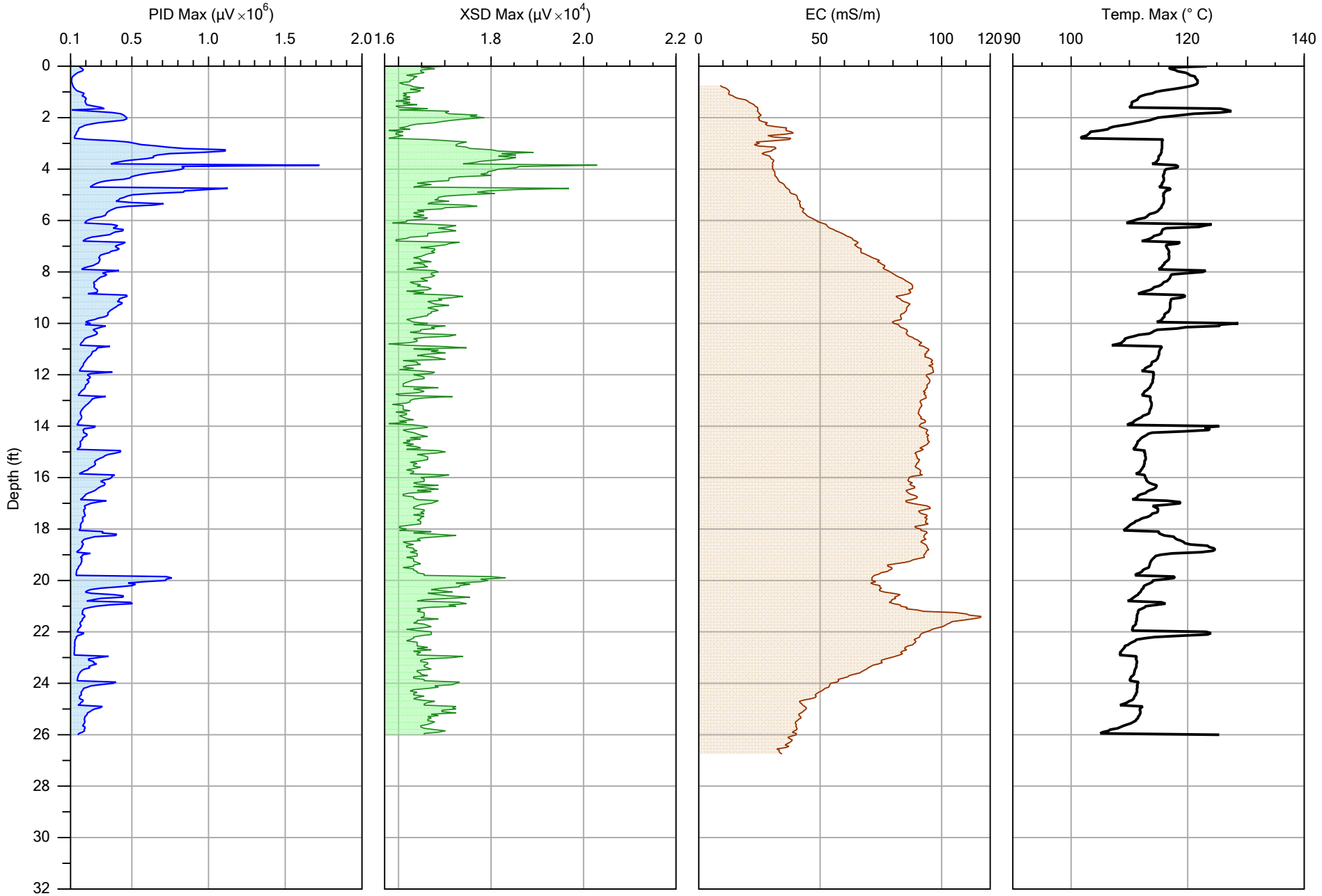
COLUMBIA TECHNOLOGIES

		File: M31.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



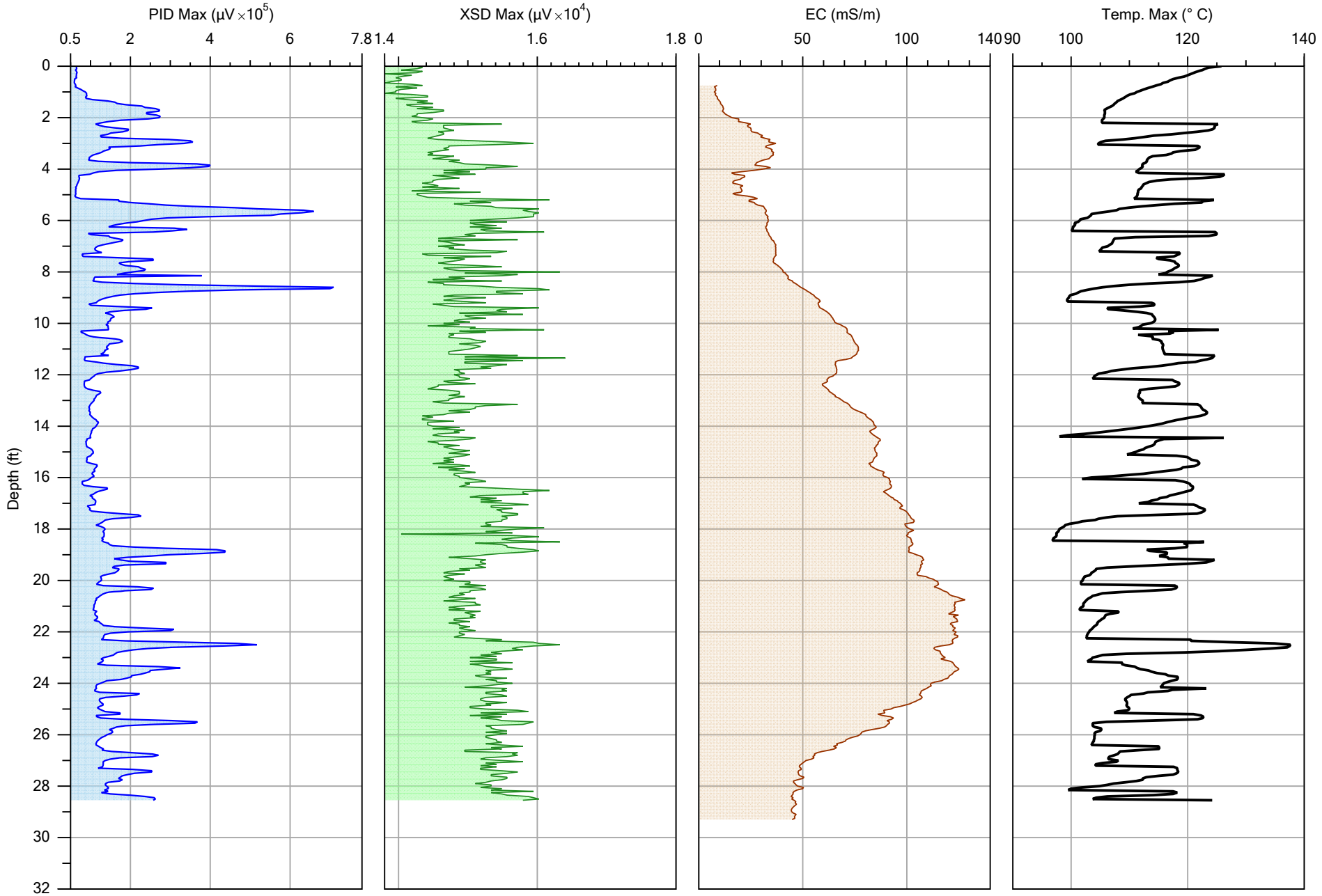
COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M32.MHP
Project ID: Dunn Field, DDMT	Client: Trinity	Date: 3/3/2017
		Location:



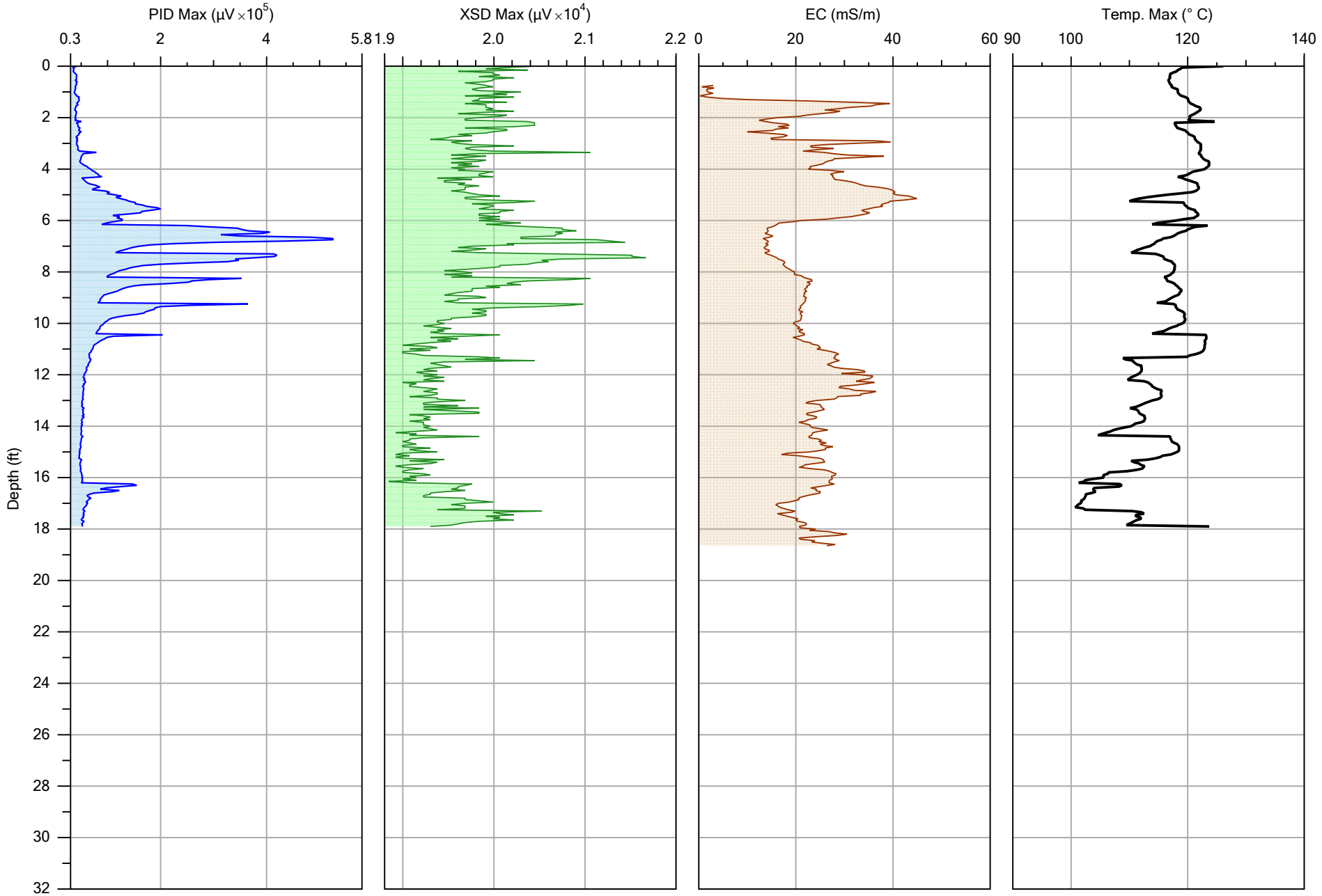
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



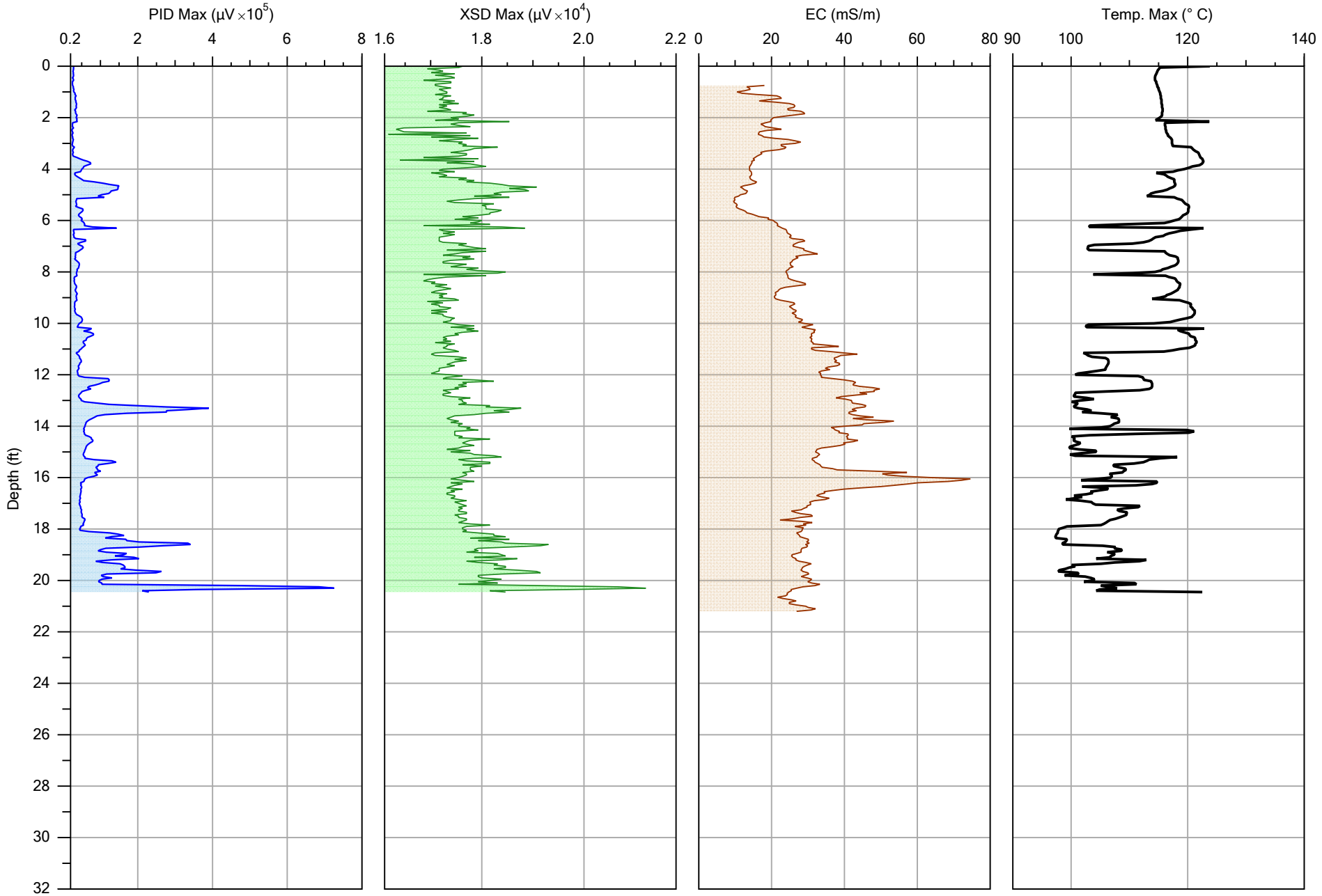
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



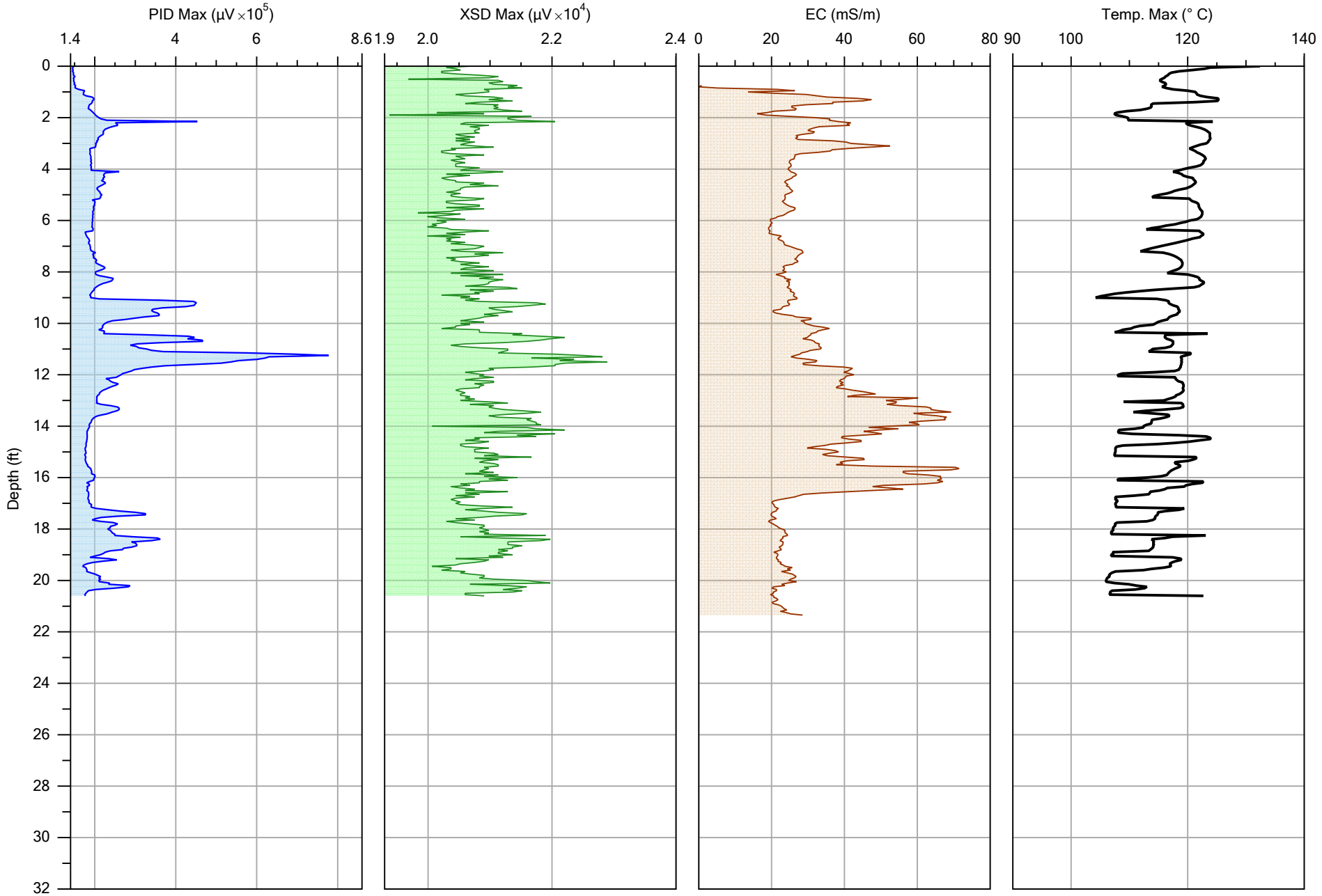
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



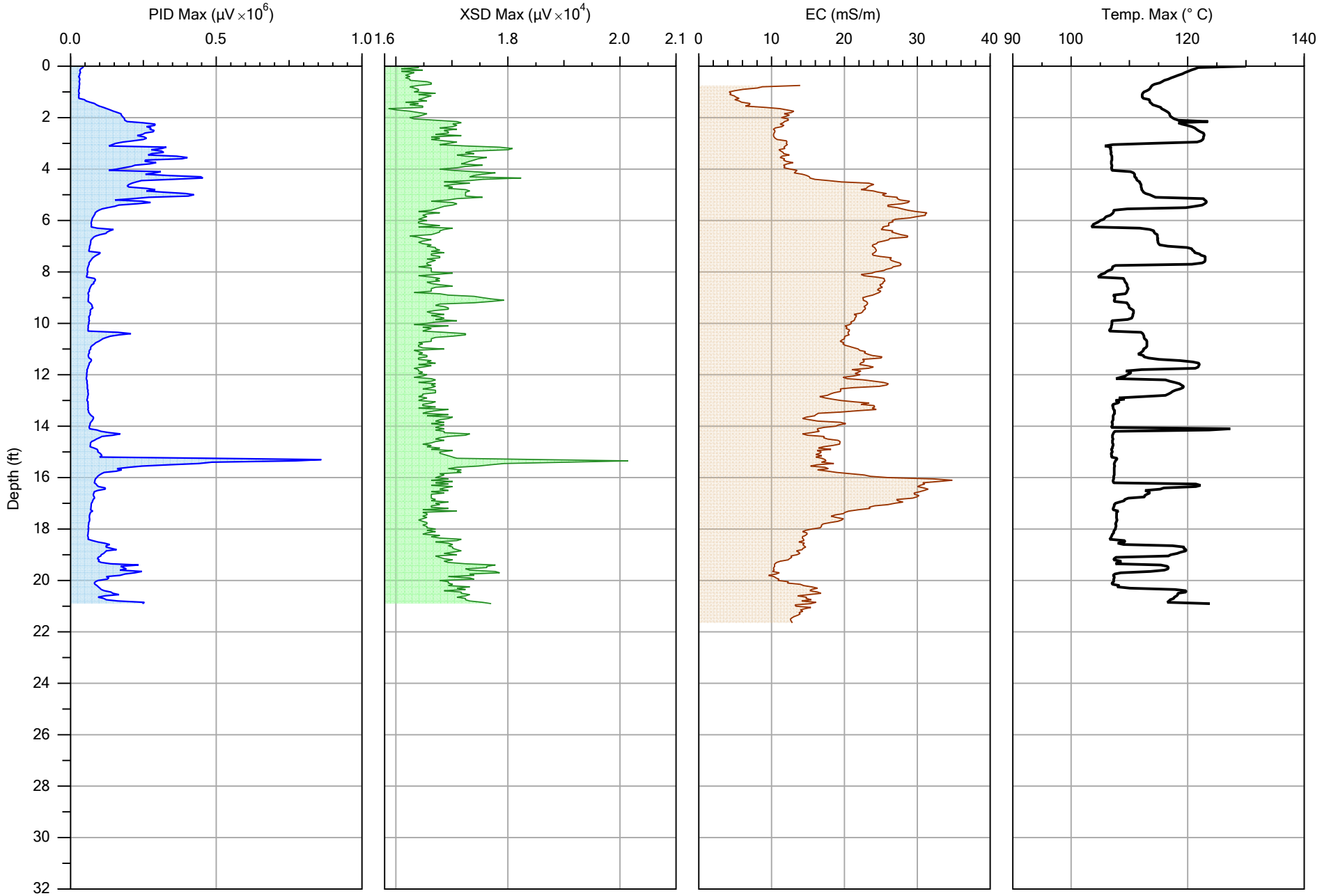
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



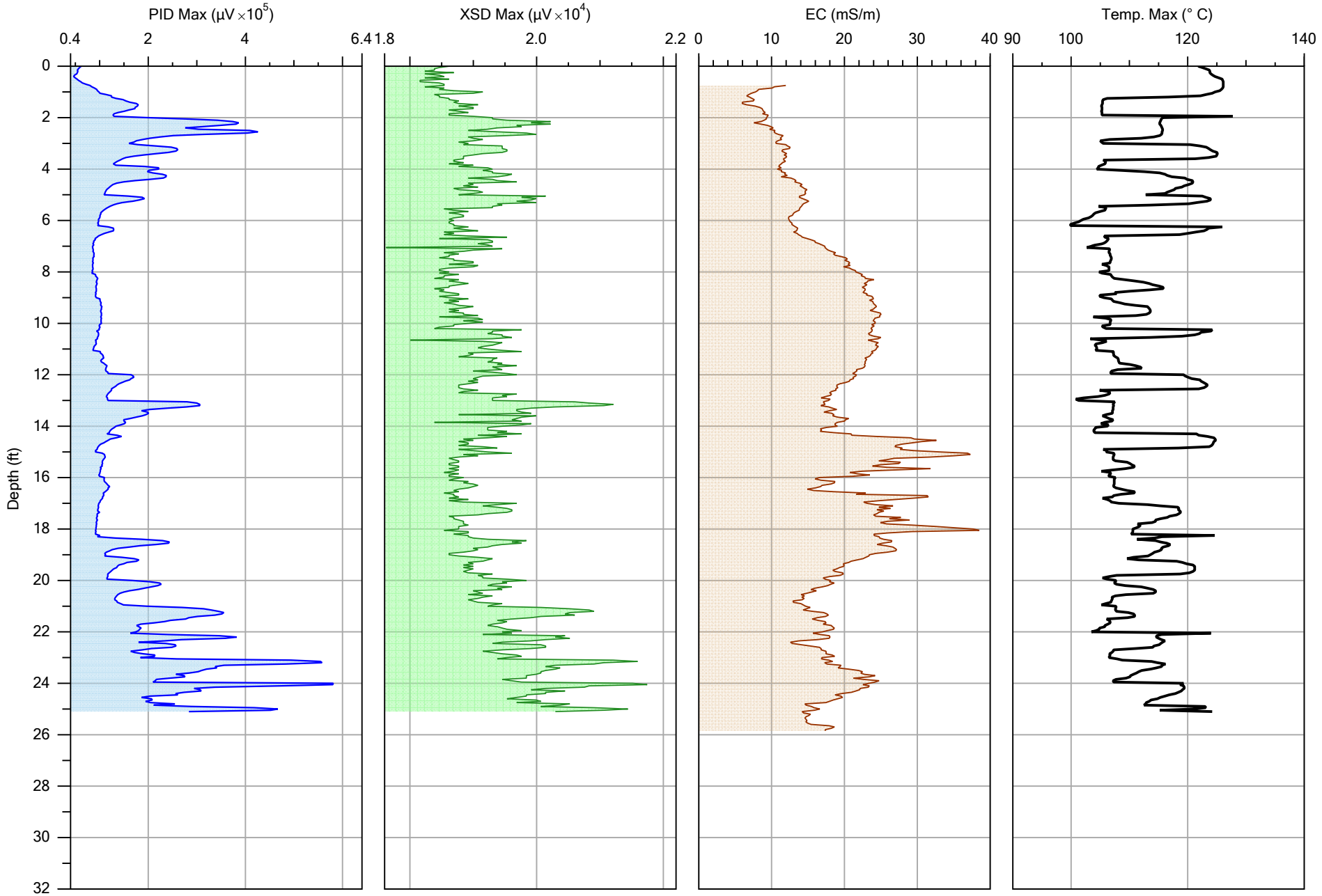
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



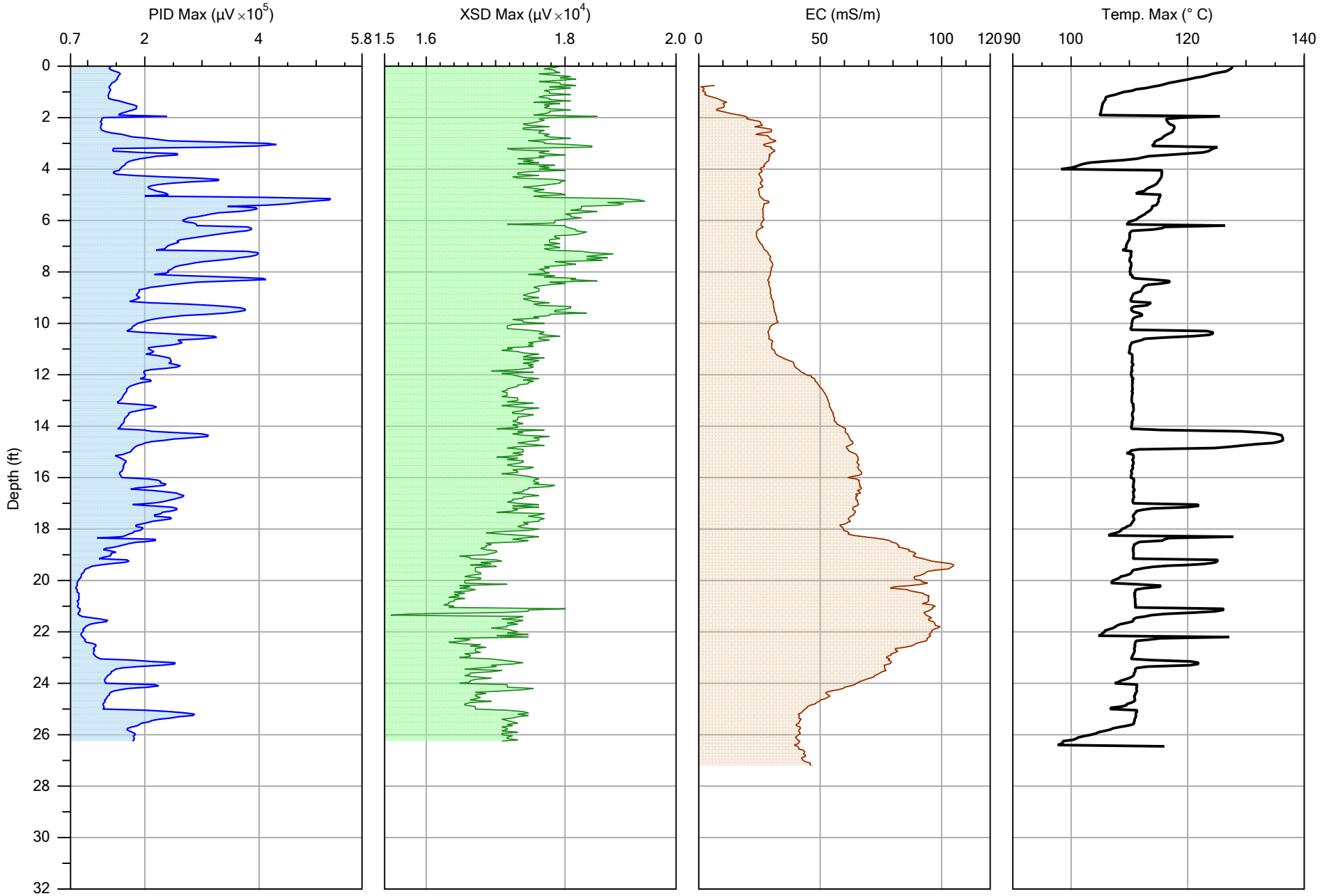
COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M38.MHP
Project ID: Dunn Field, DDMT	Client: Trinity	Date: 3/4/2017
		Location:



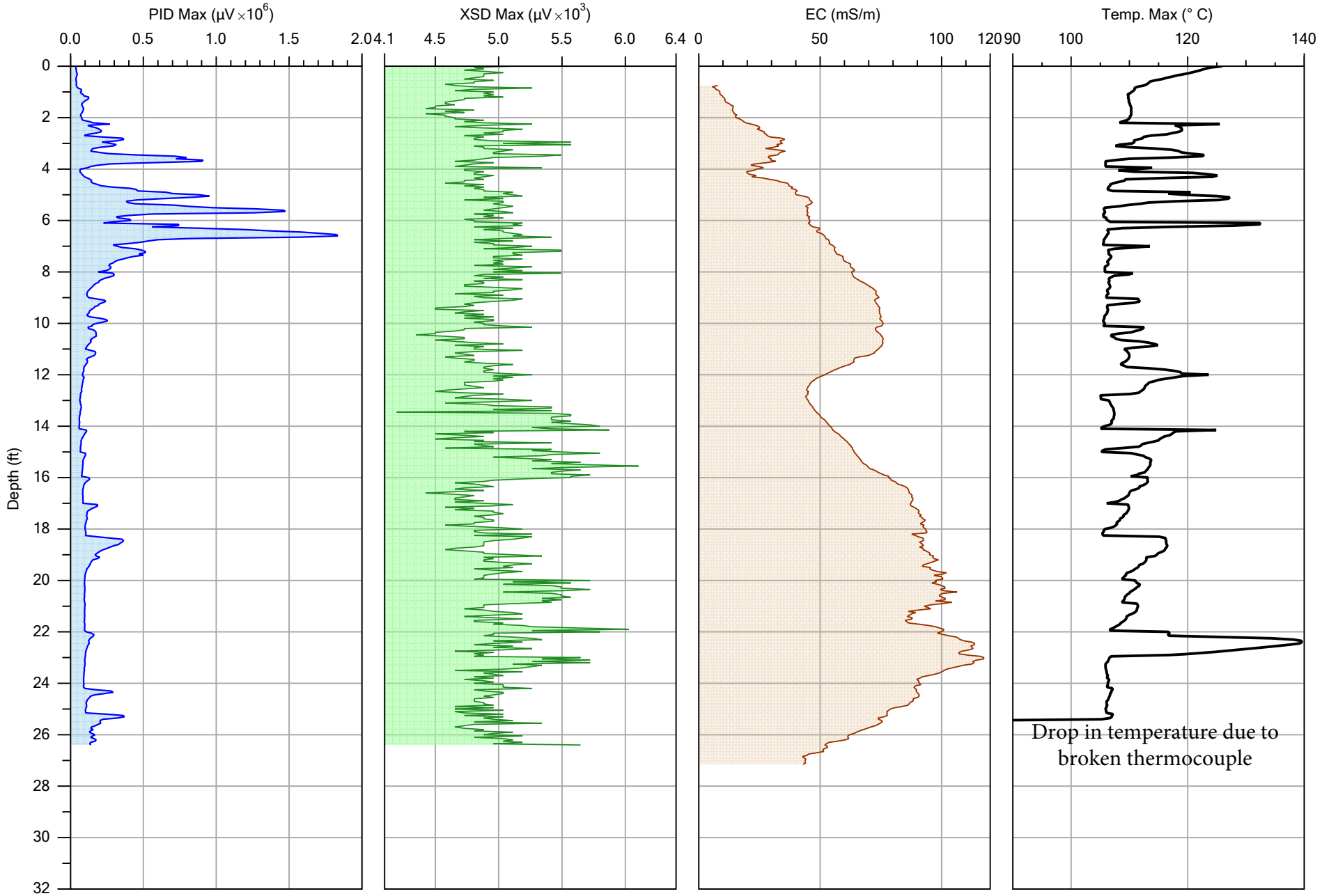
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



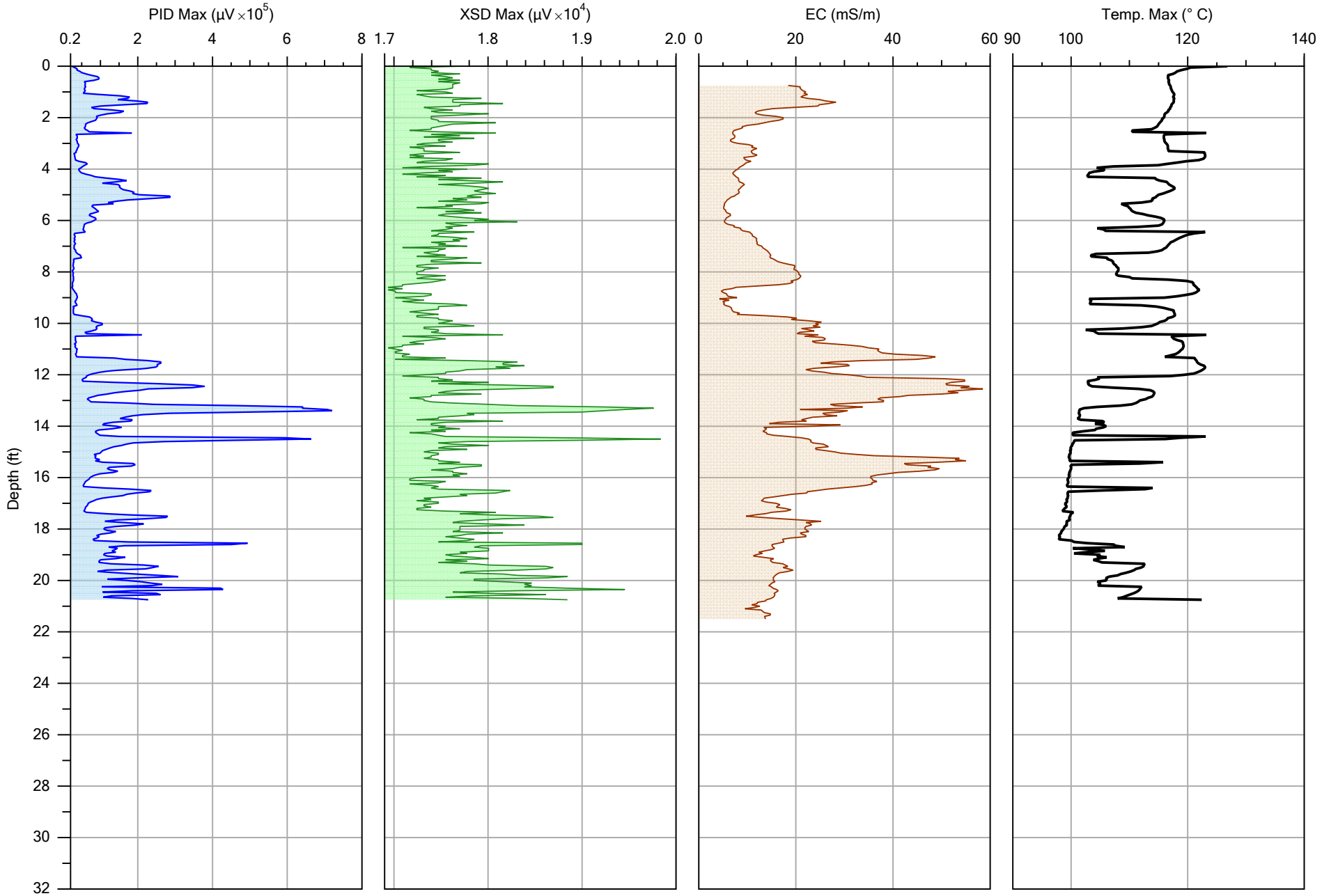
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



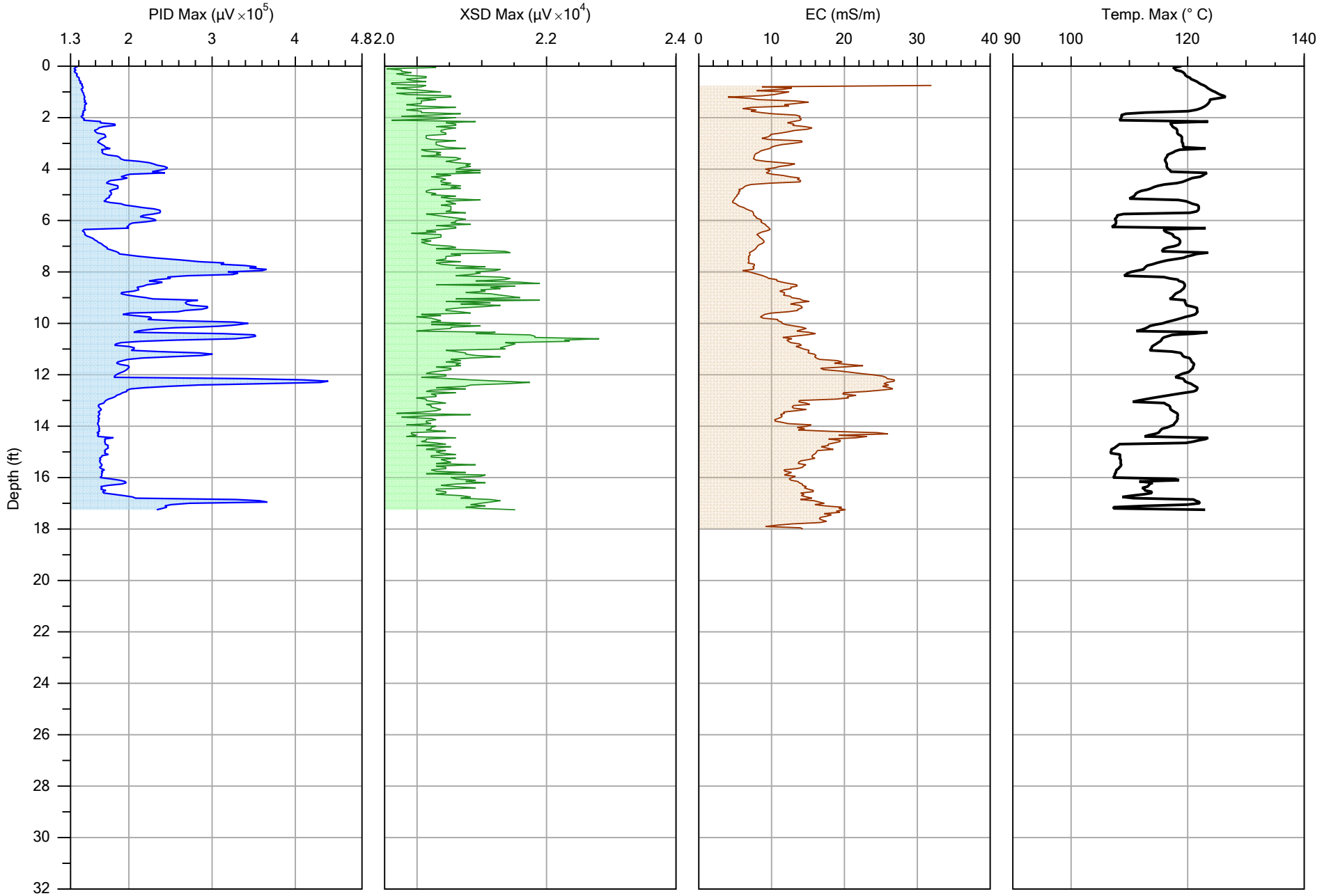
COLUMBIA TECHNOLOGIES

		File: M41.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



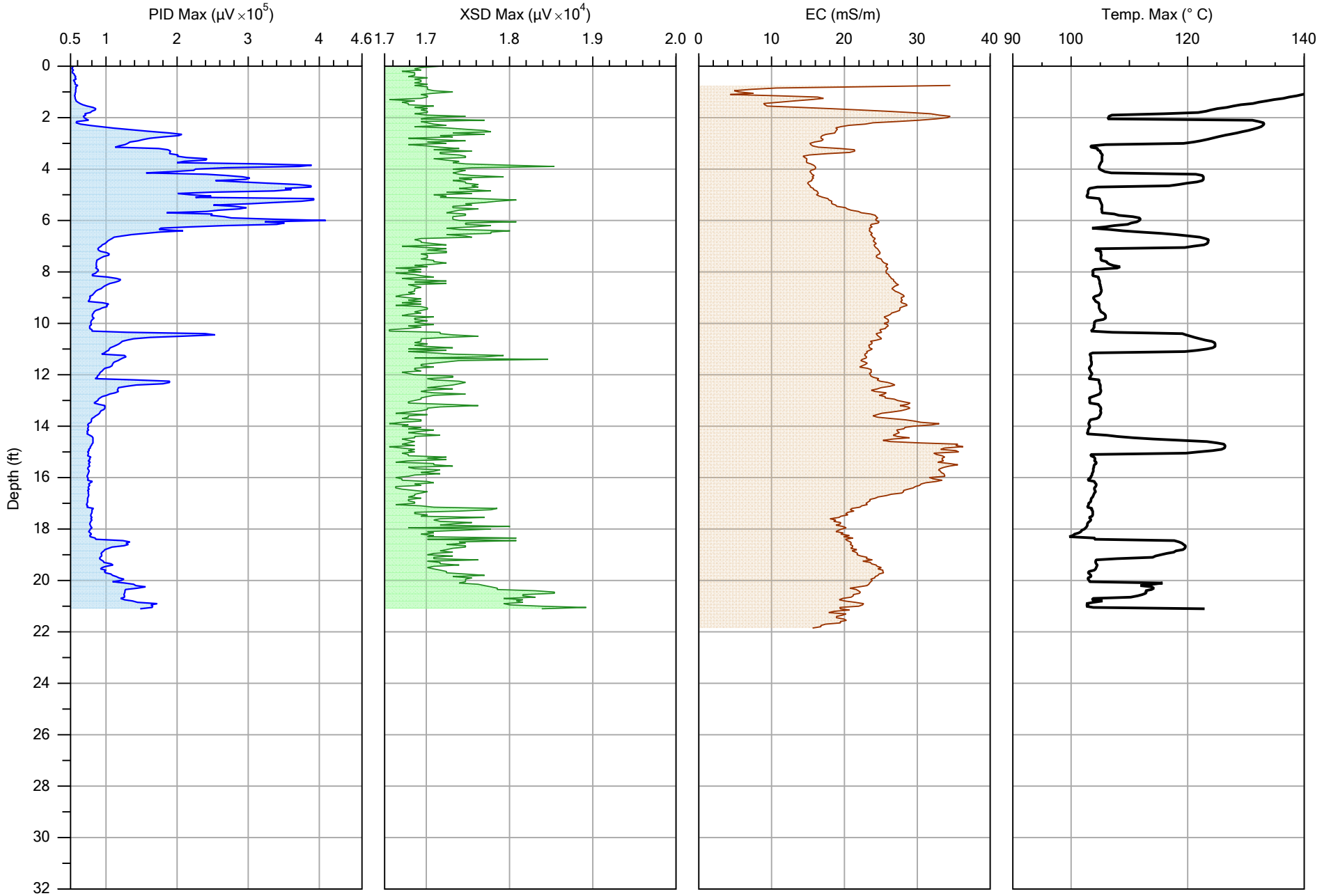
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



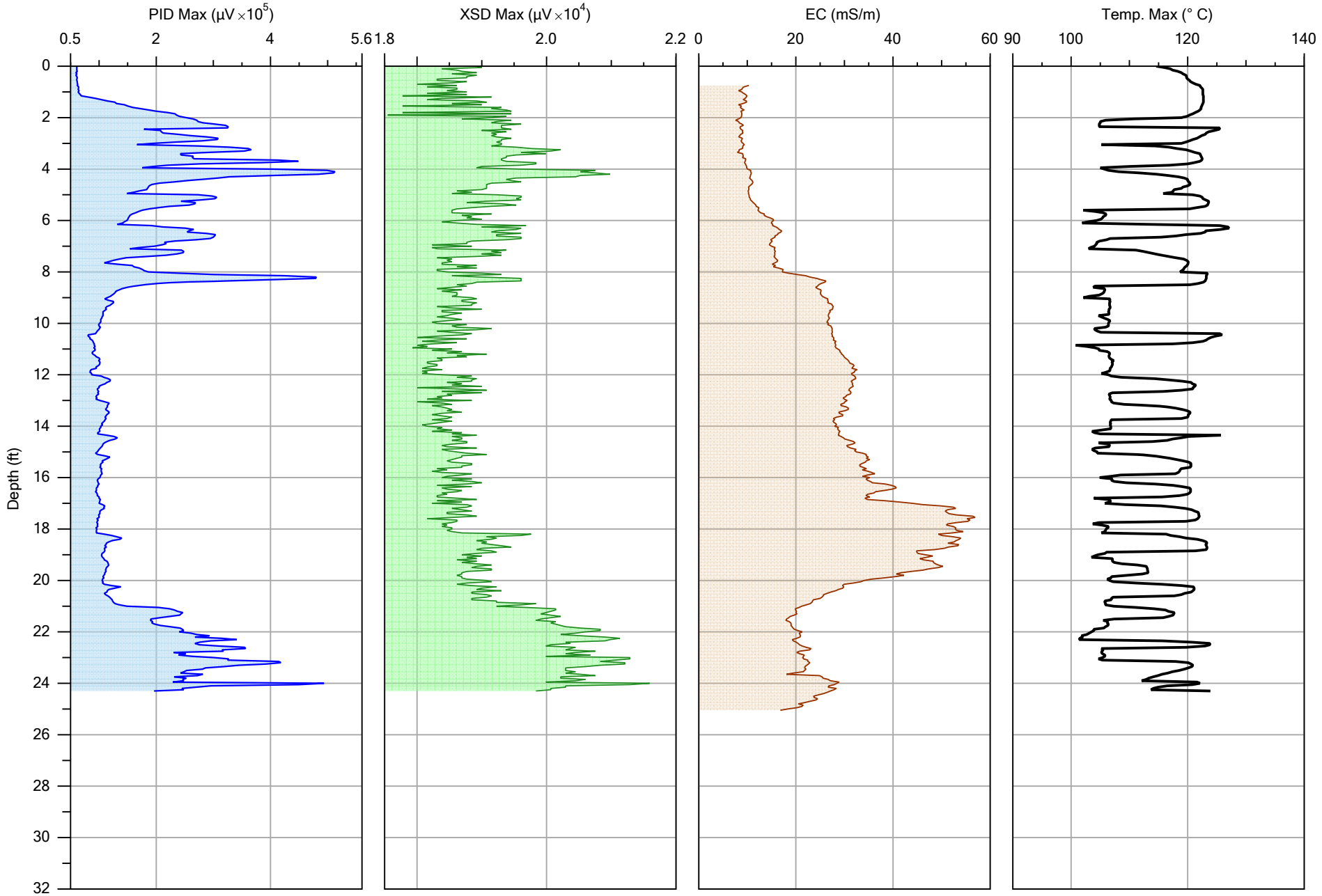
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



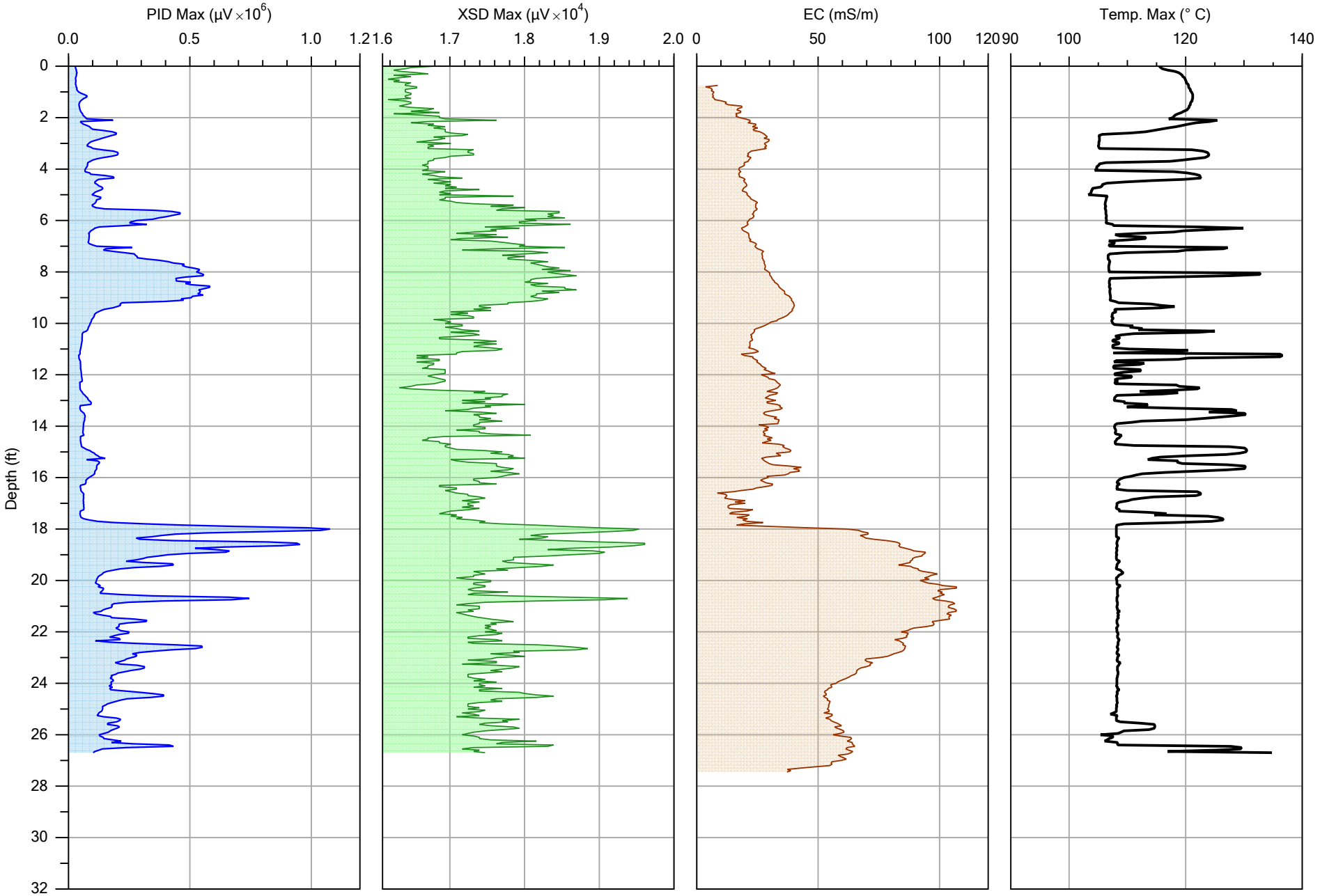
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



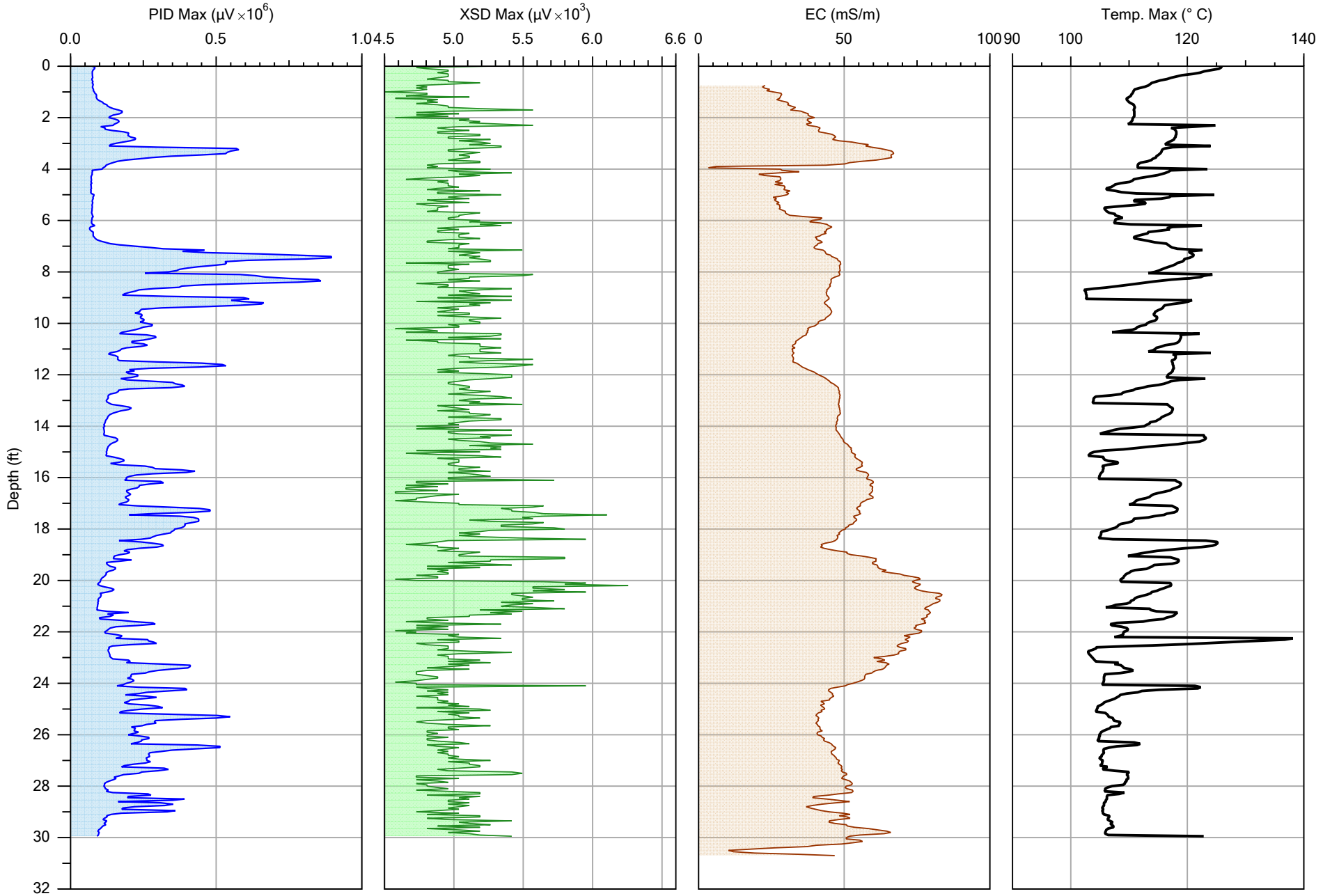
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



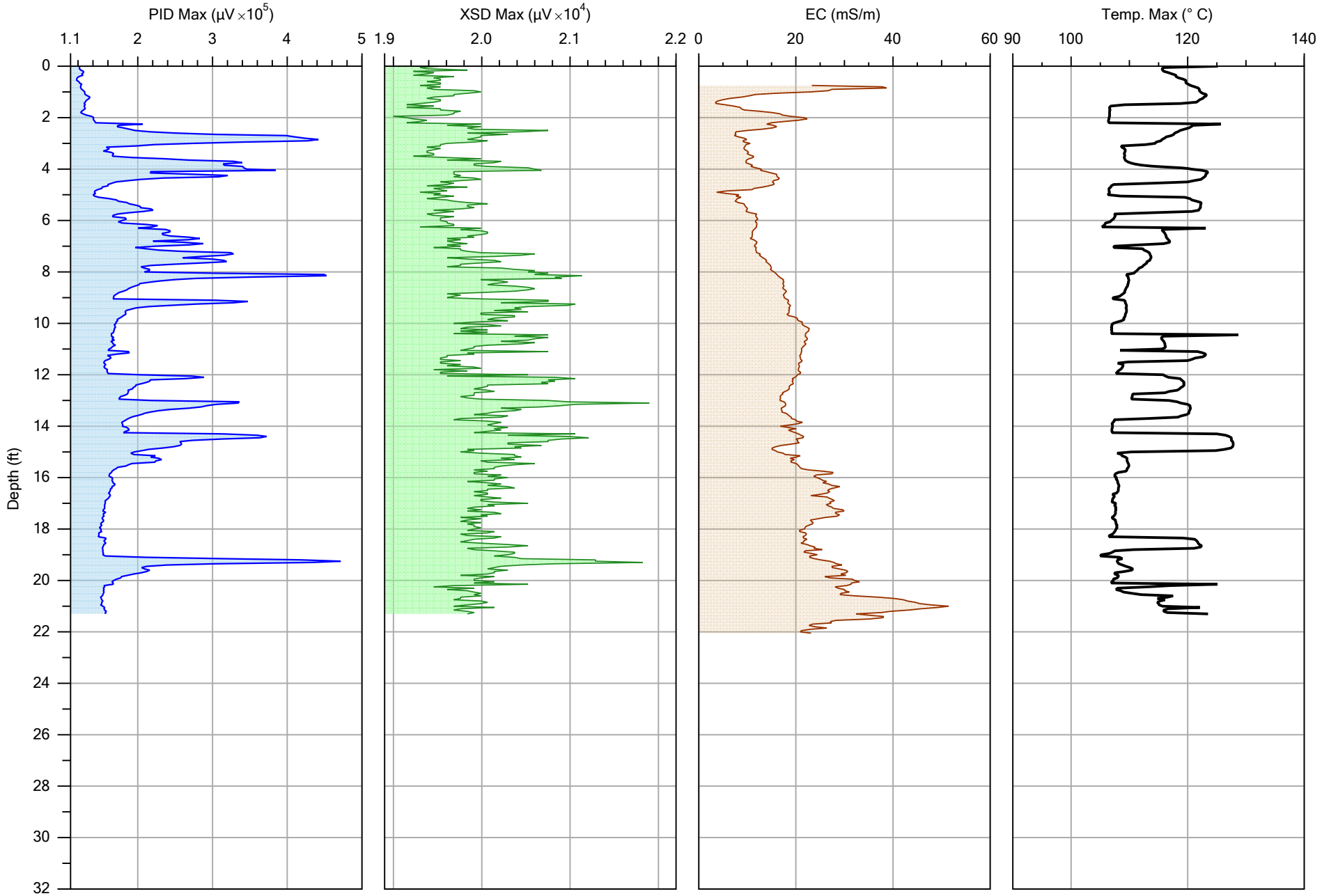
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



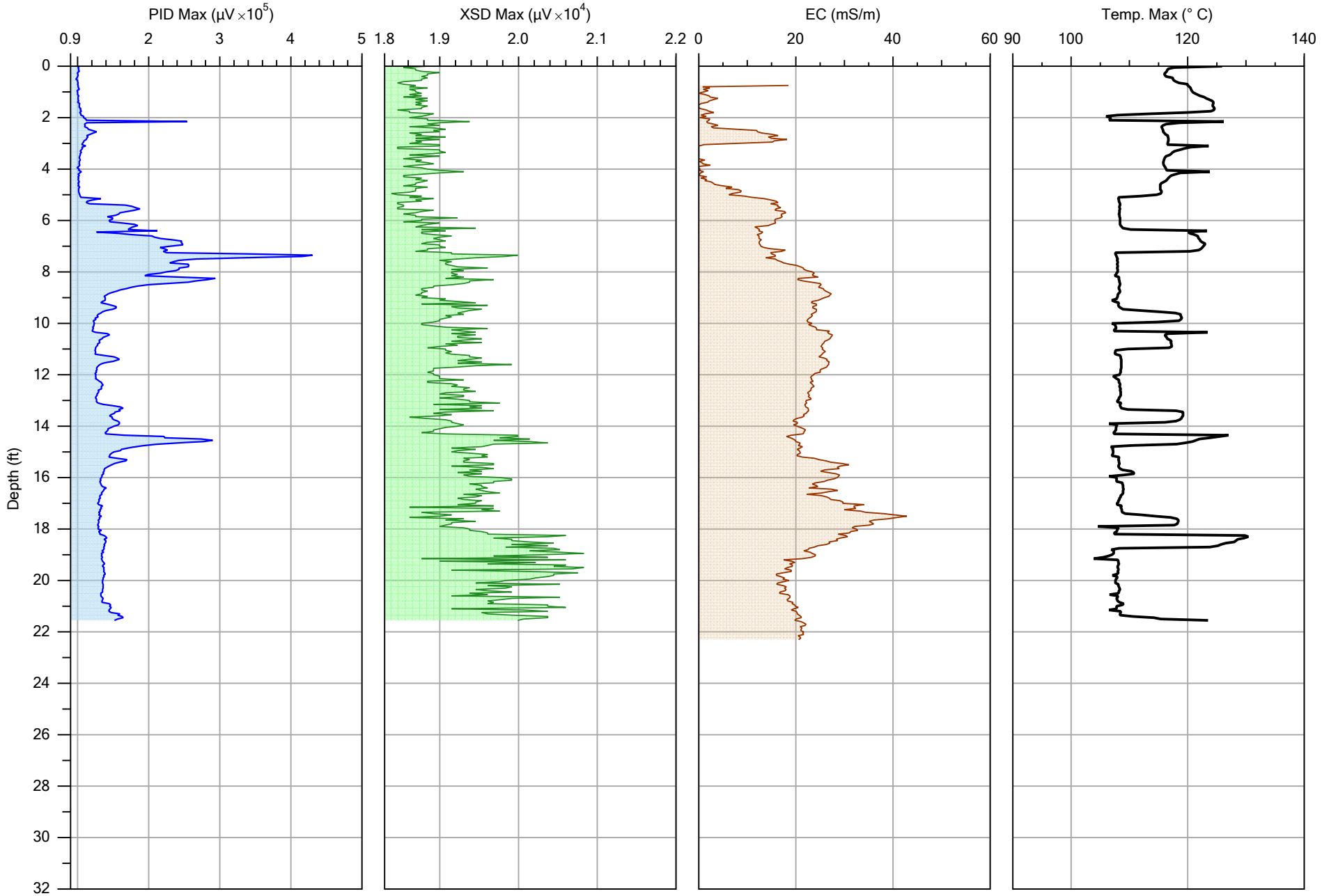
COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M48.MHP
Project ID: Dunn Field, DDMT	Client: Trinity	Date: 3/2/2017
		Location:



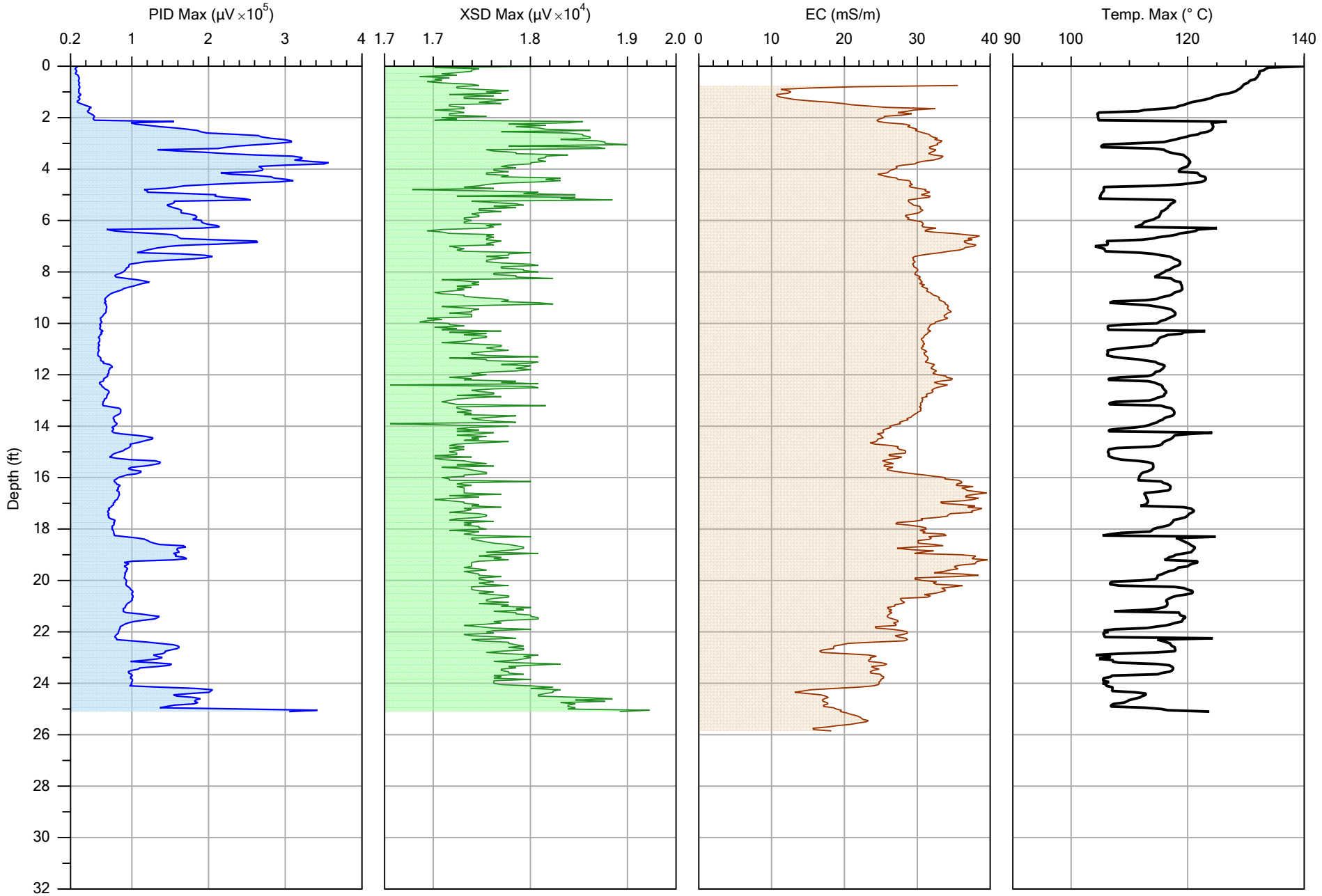
COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M49.MHP
Project ID: Dunn Field, DDMT	Client: Trinity	Date: 3/4/2017
		Location:



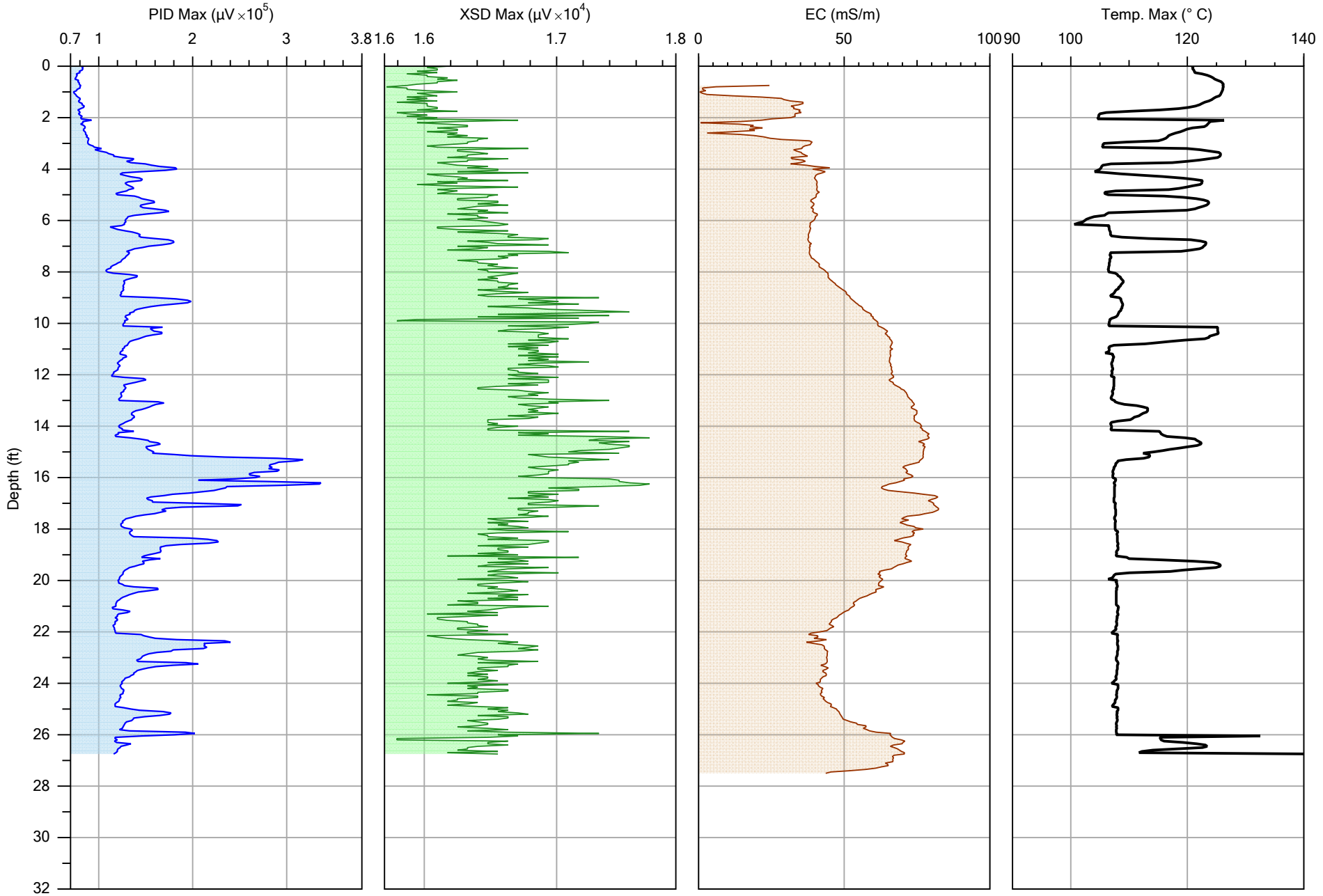
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



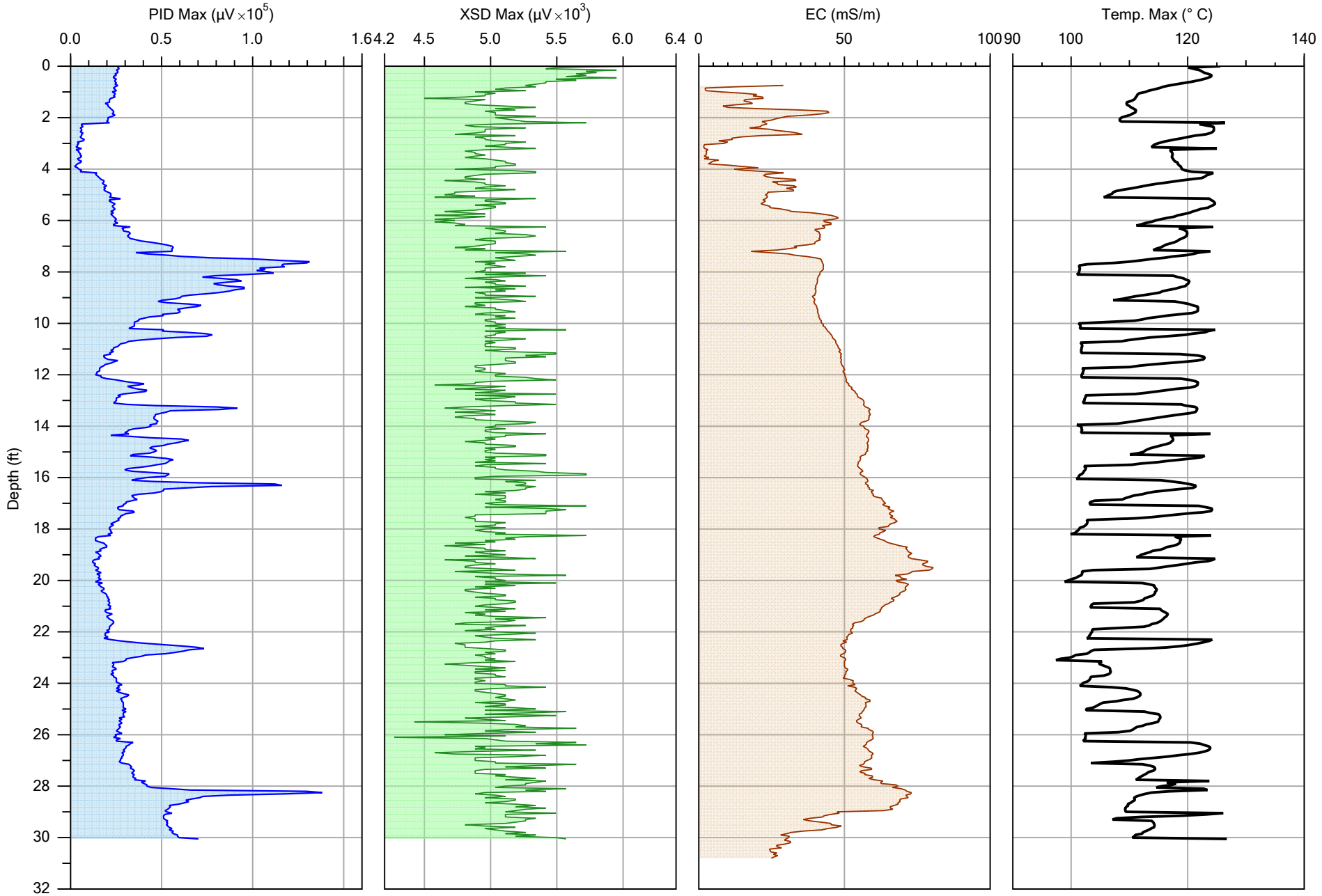
COLUMBIA TECHNOLOGIES

		File: M51.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



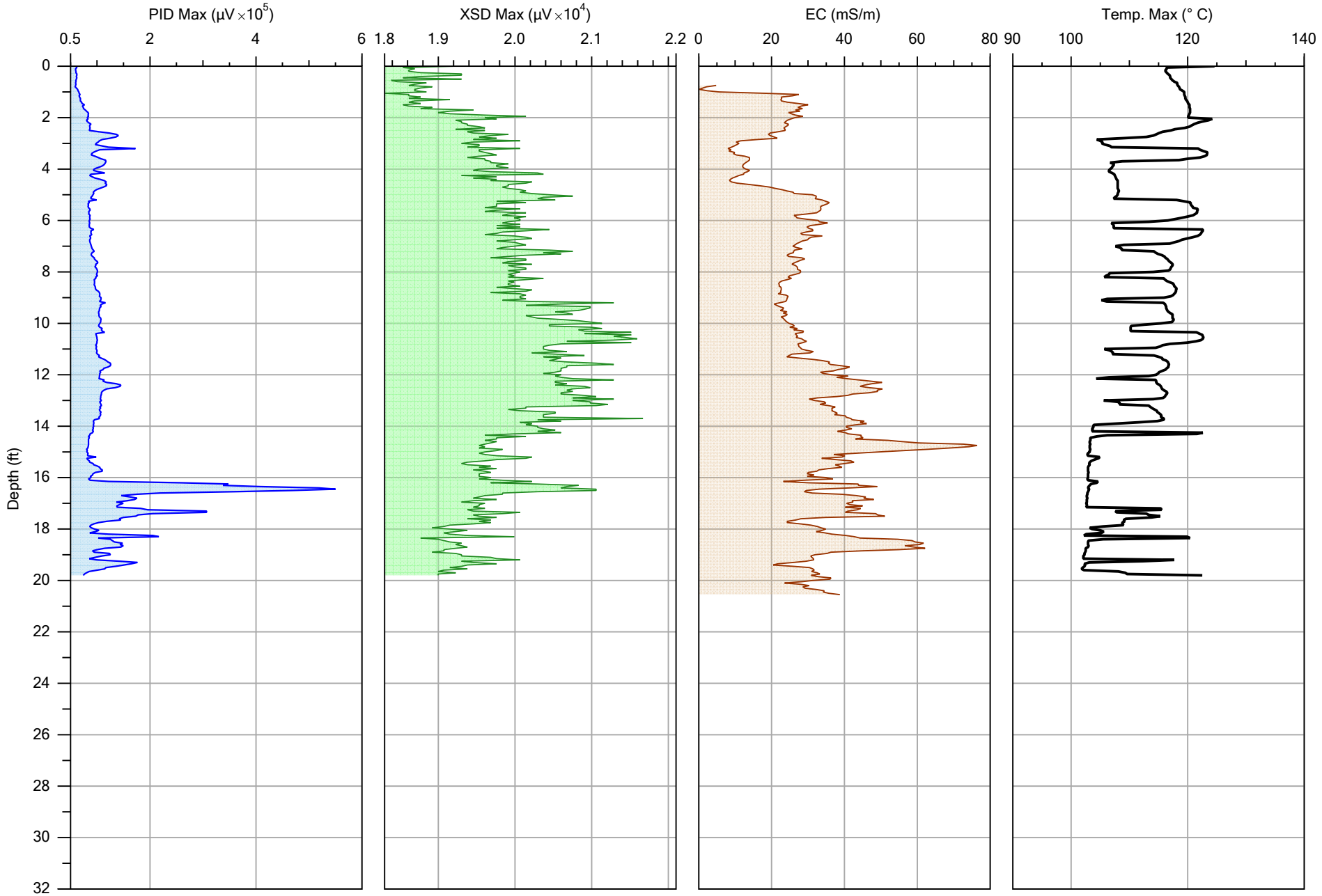
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



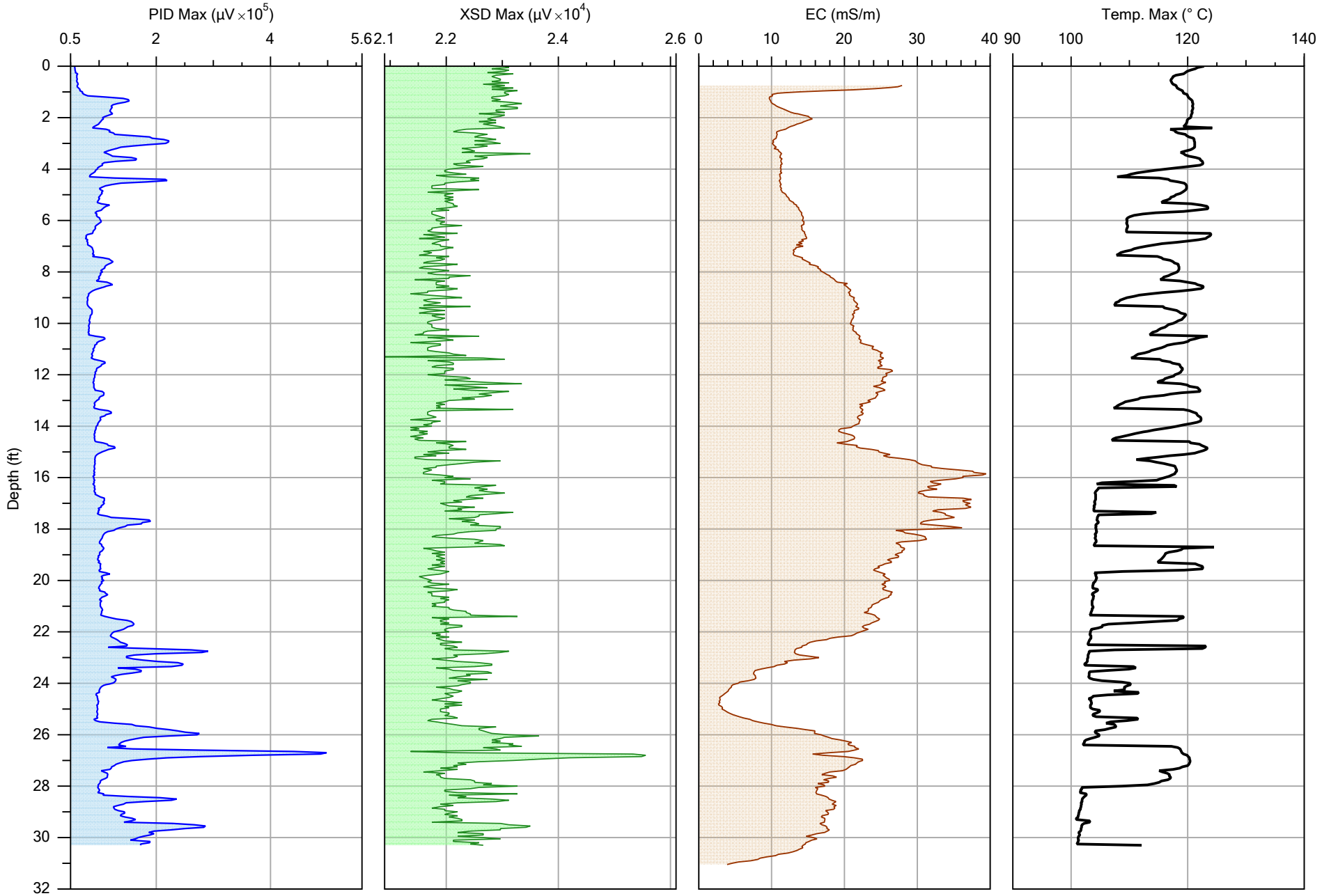
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



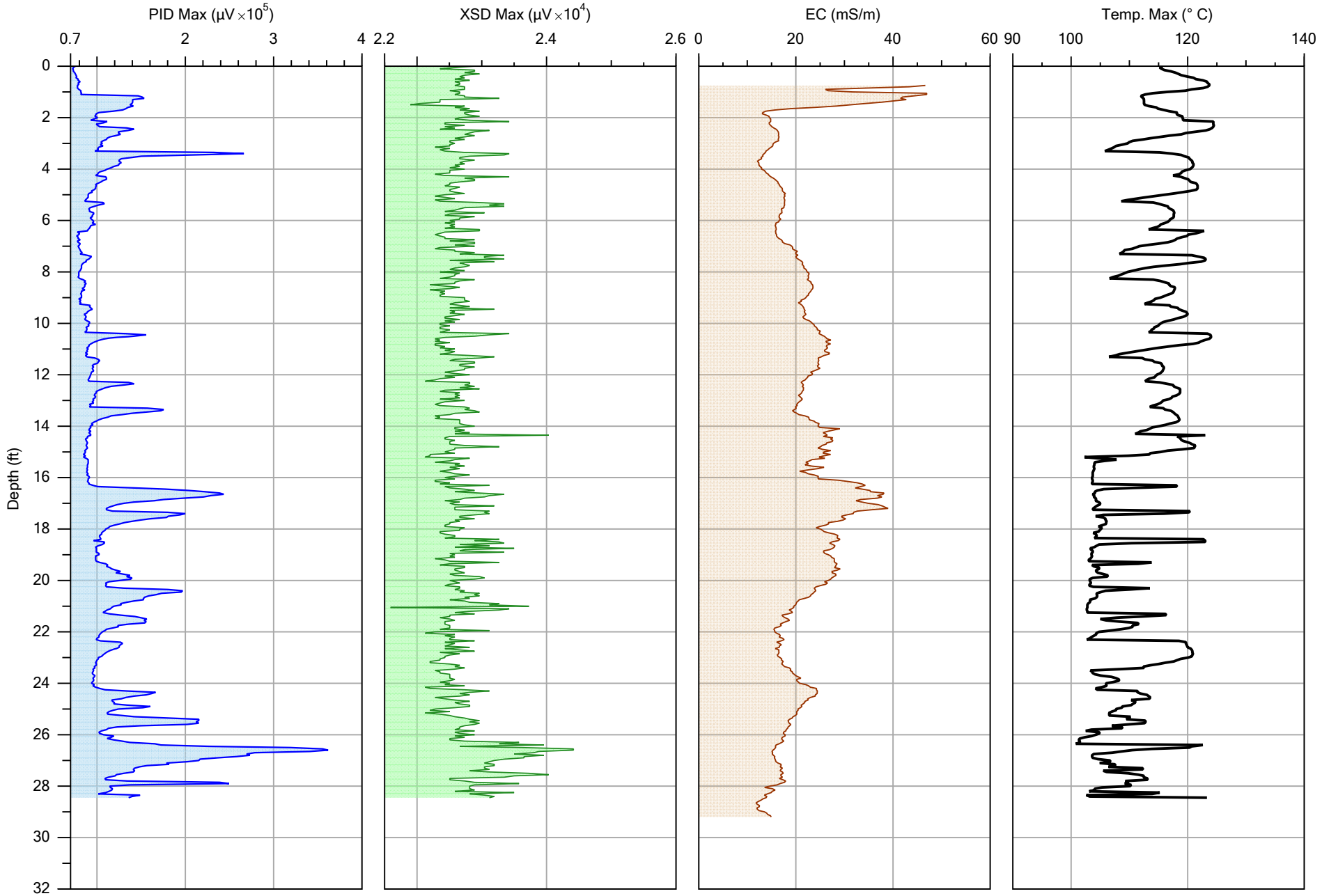
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



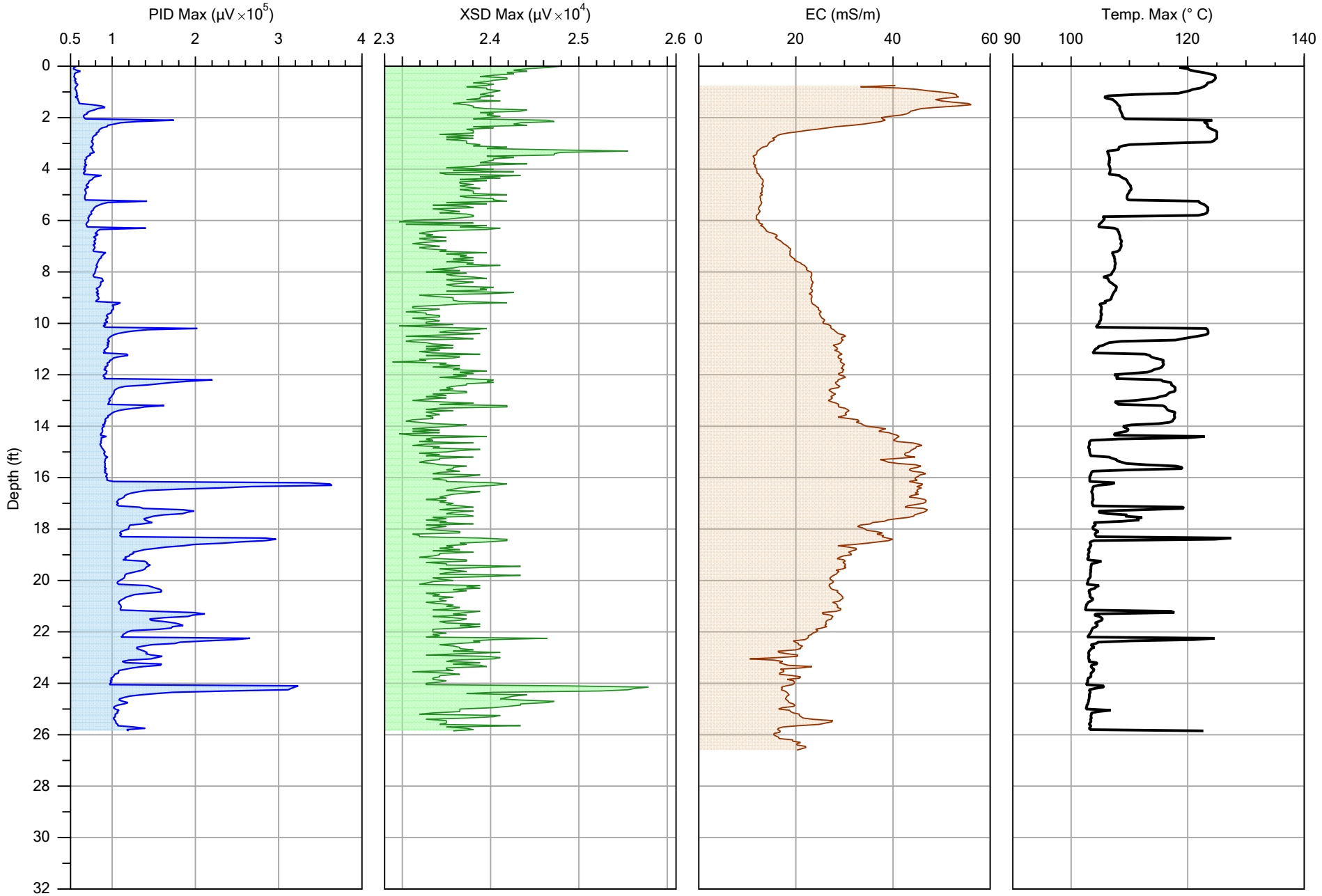
COLUMBIA TECHNOLOGIES

		File: M55.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/7/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M56.MHP
		Date: 3/7/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:

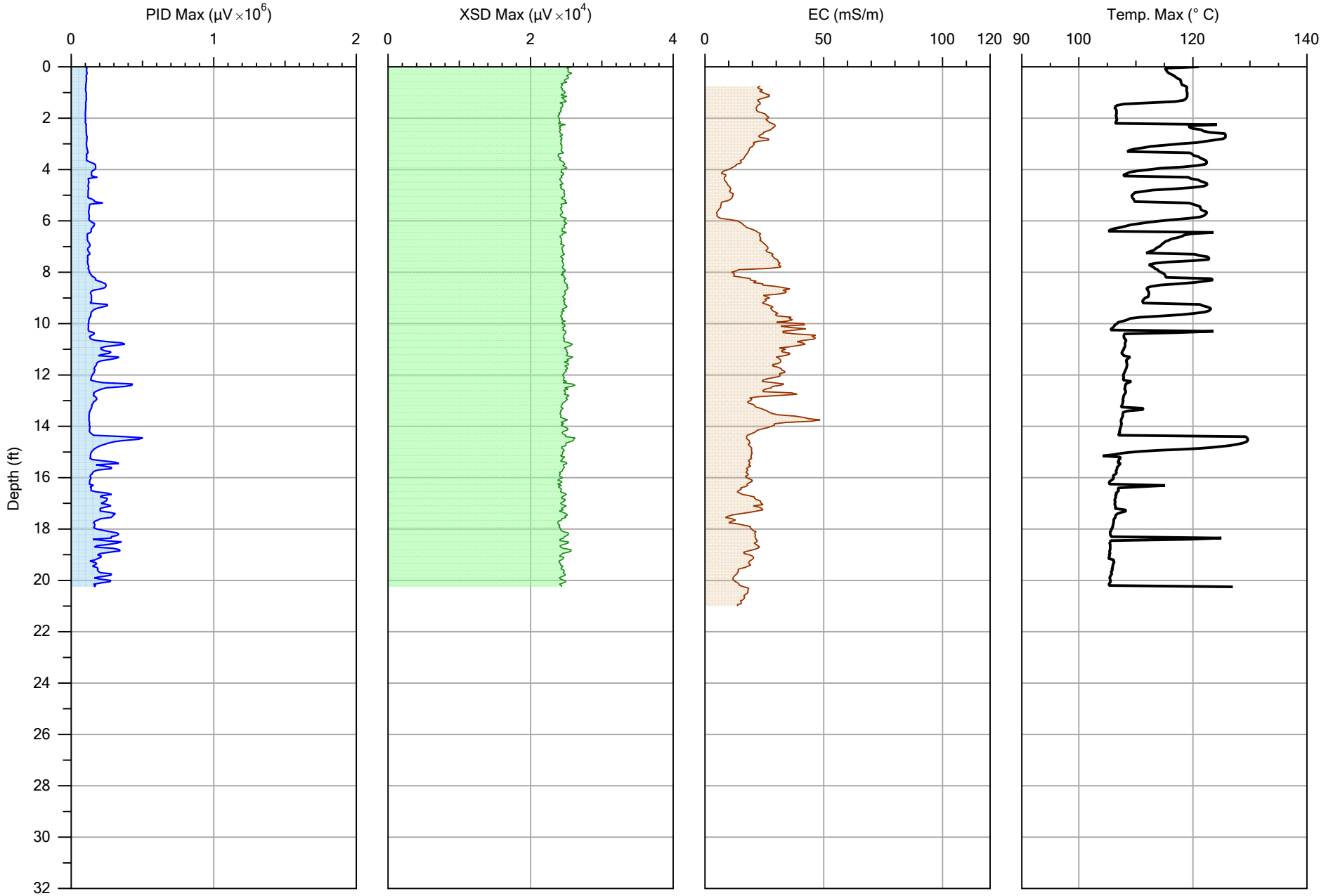


COLUMBIA TECHNOLOGIES

		File: M57.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/7/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:

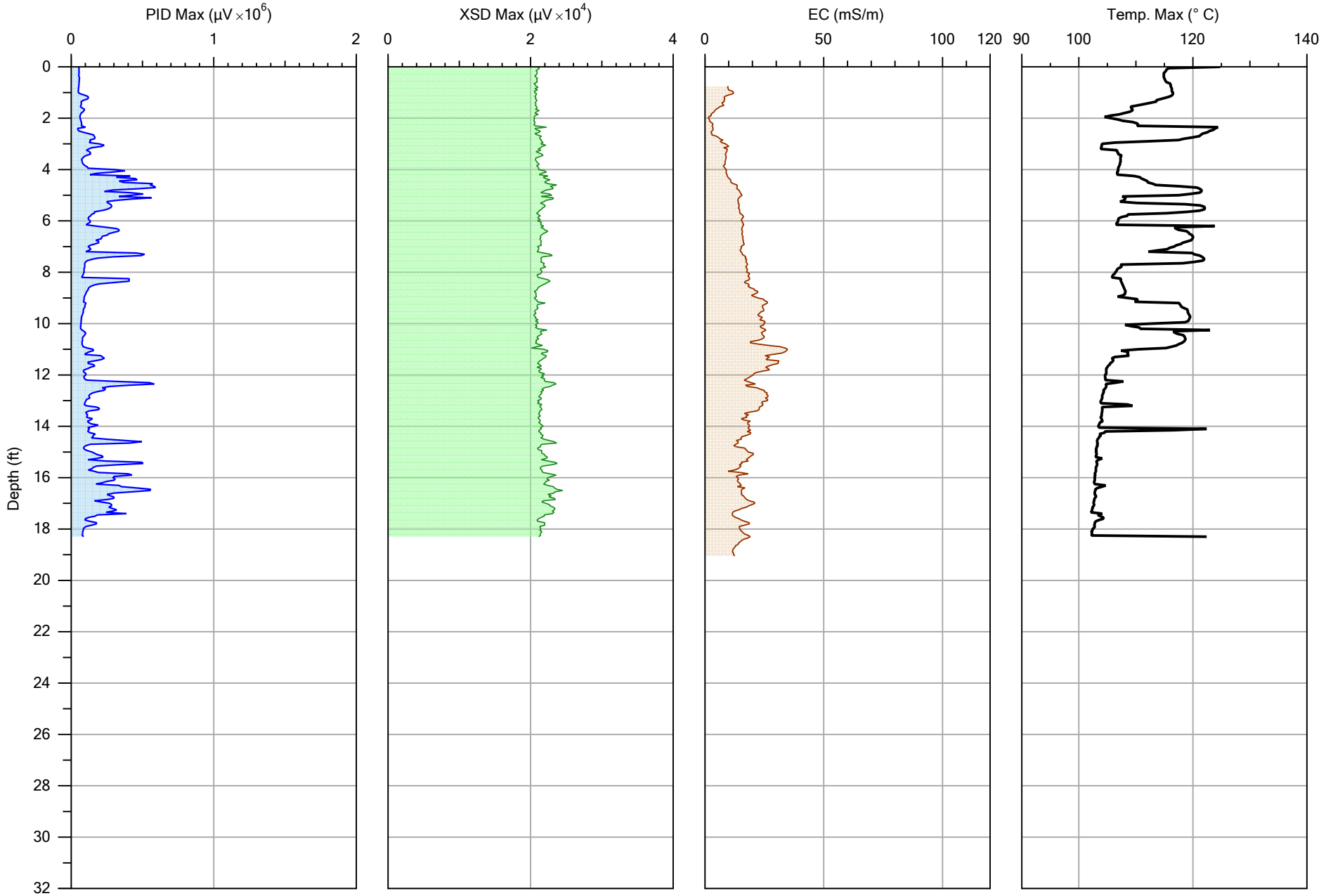
MIP/EC Logs, Collective Scale

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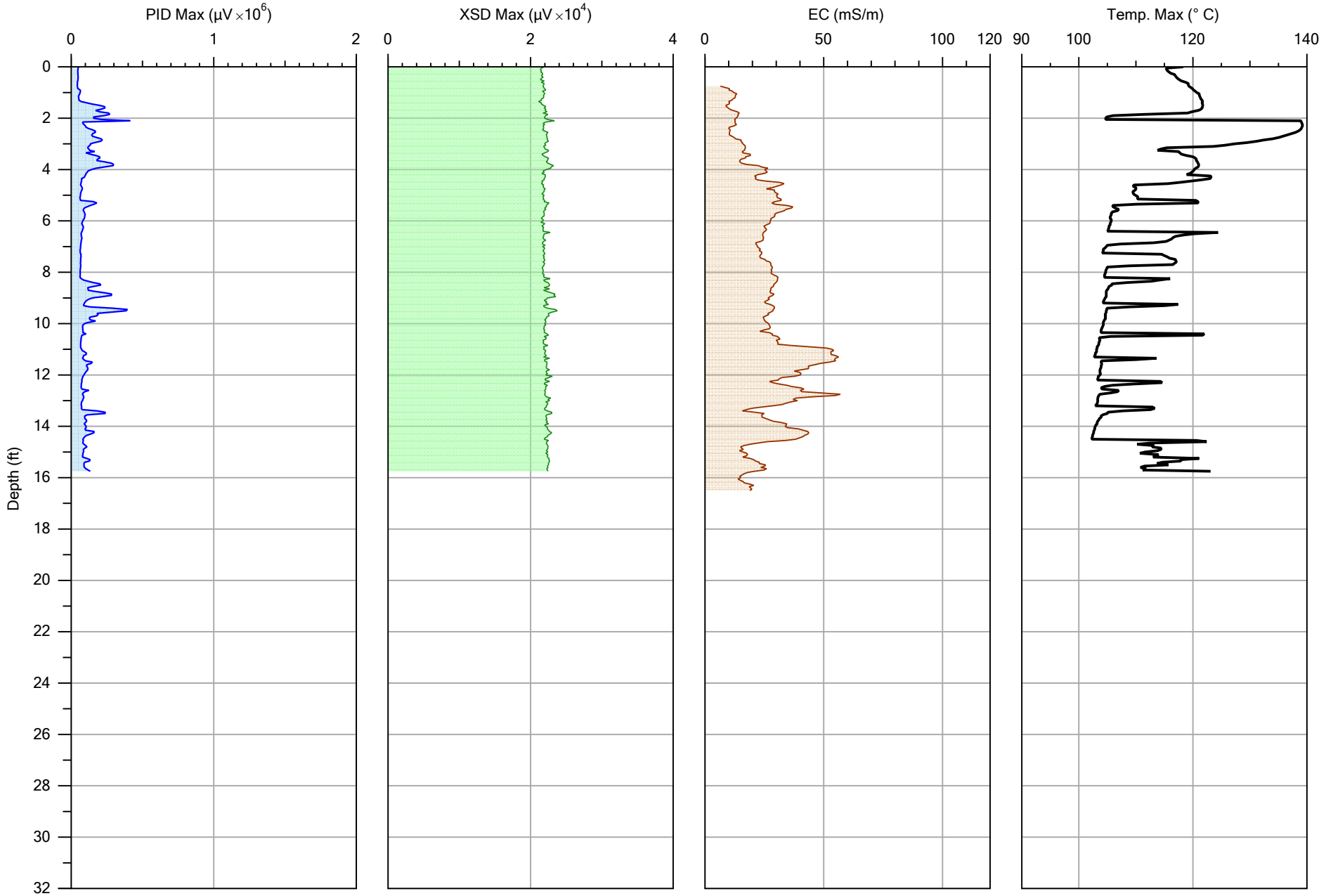
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



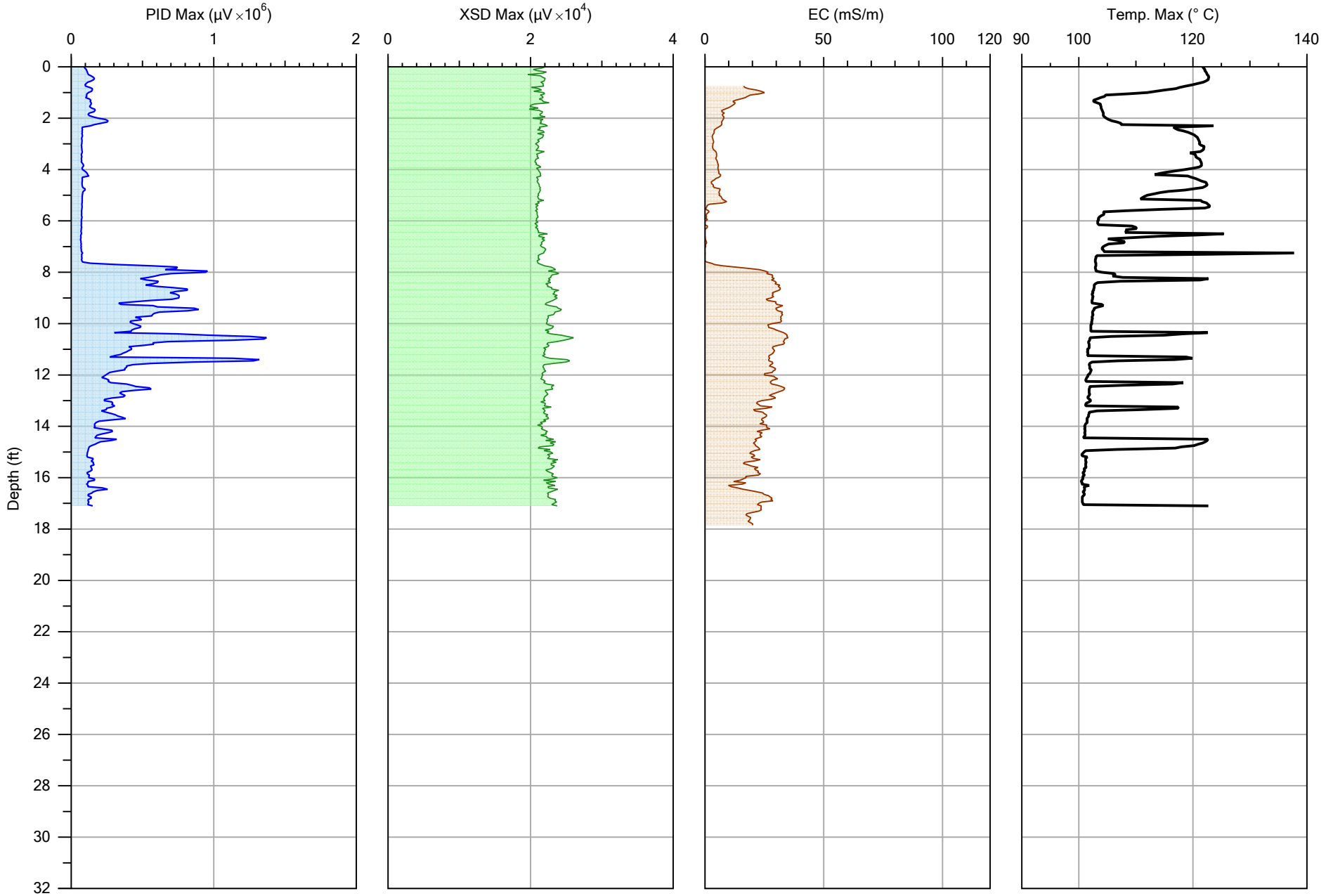
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



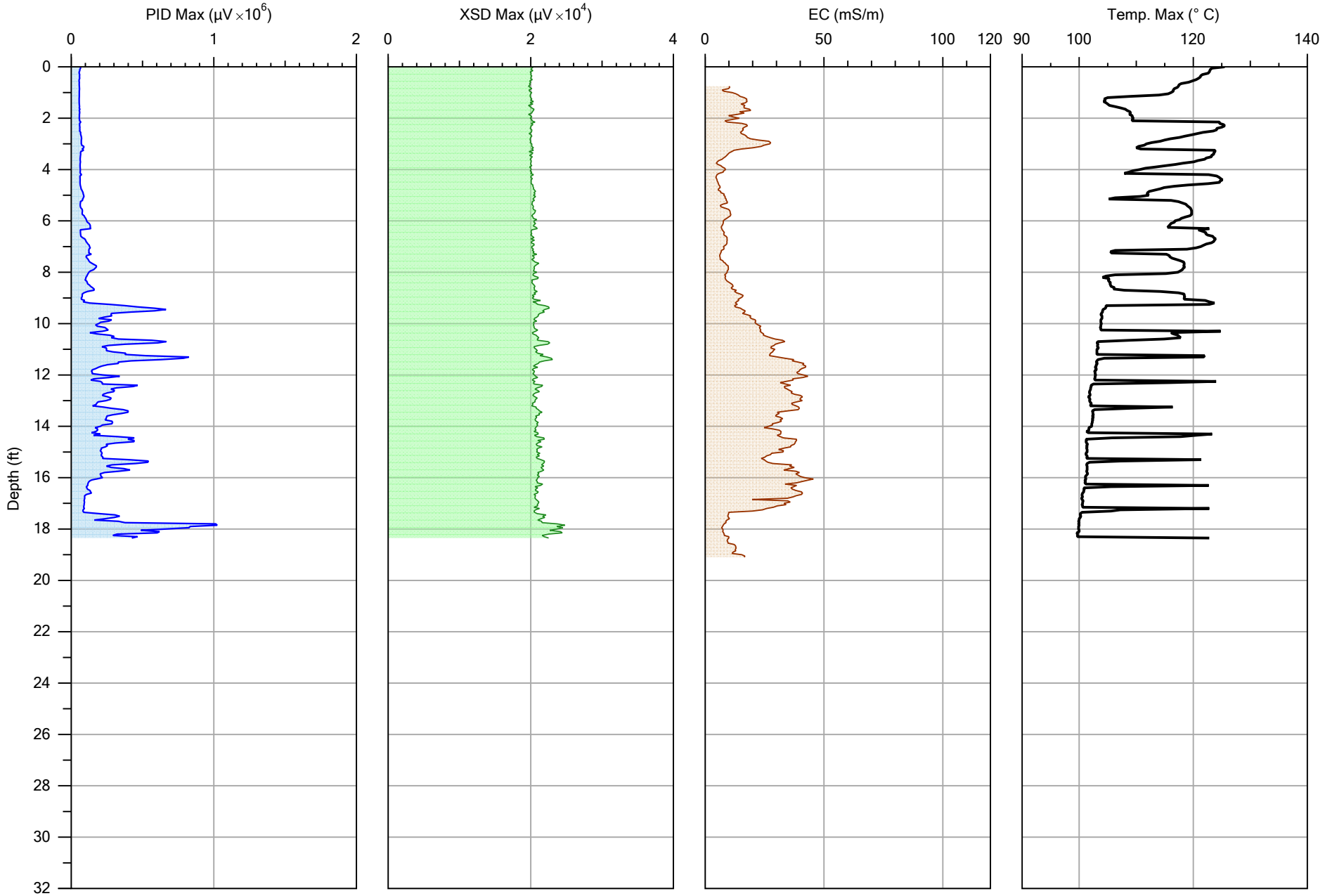
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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



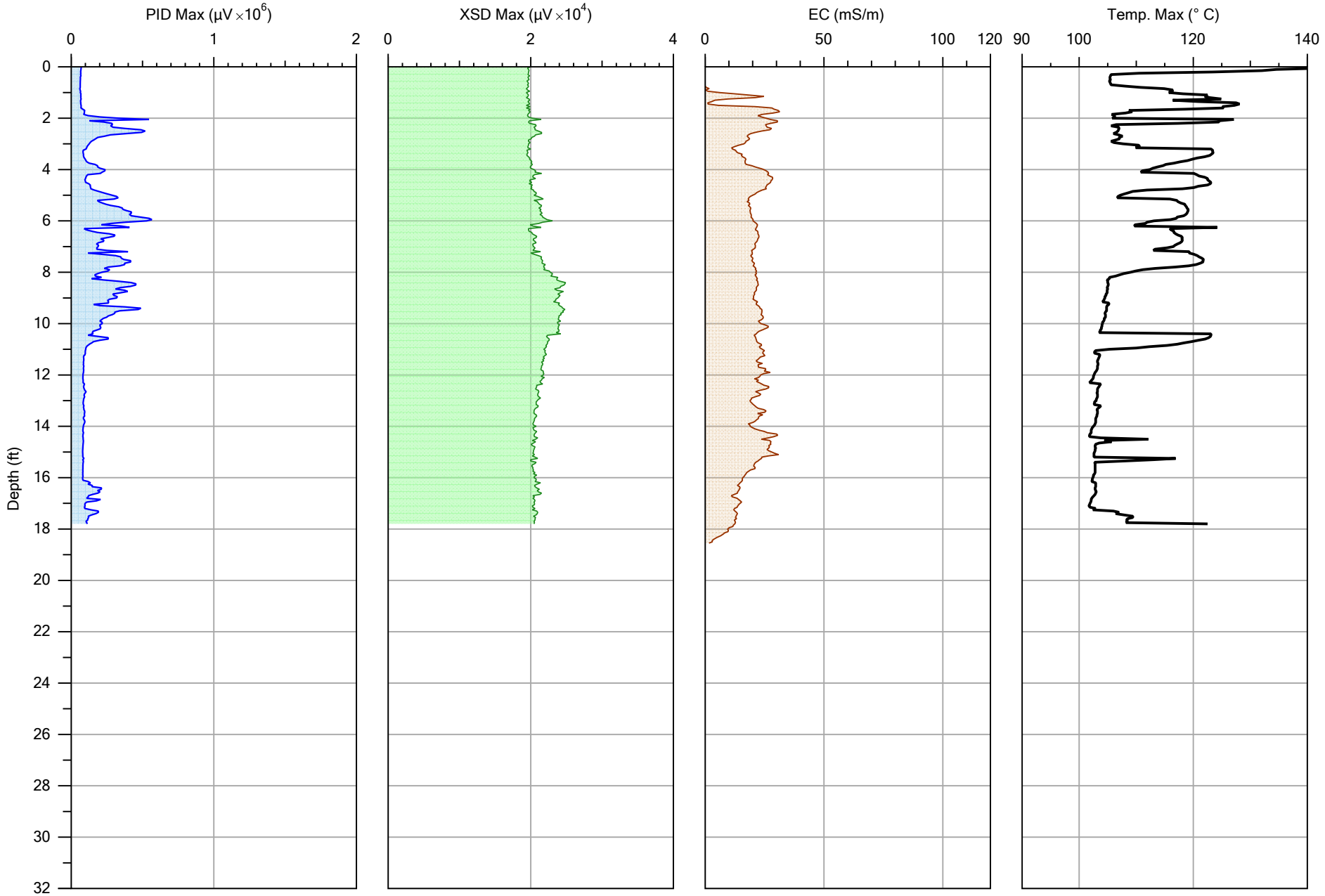
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



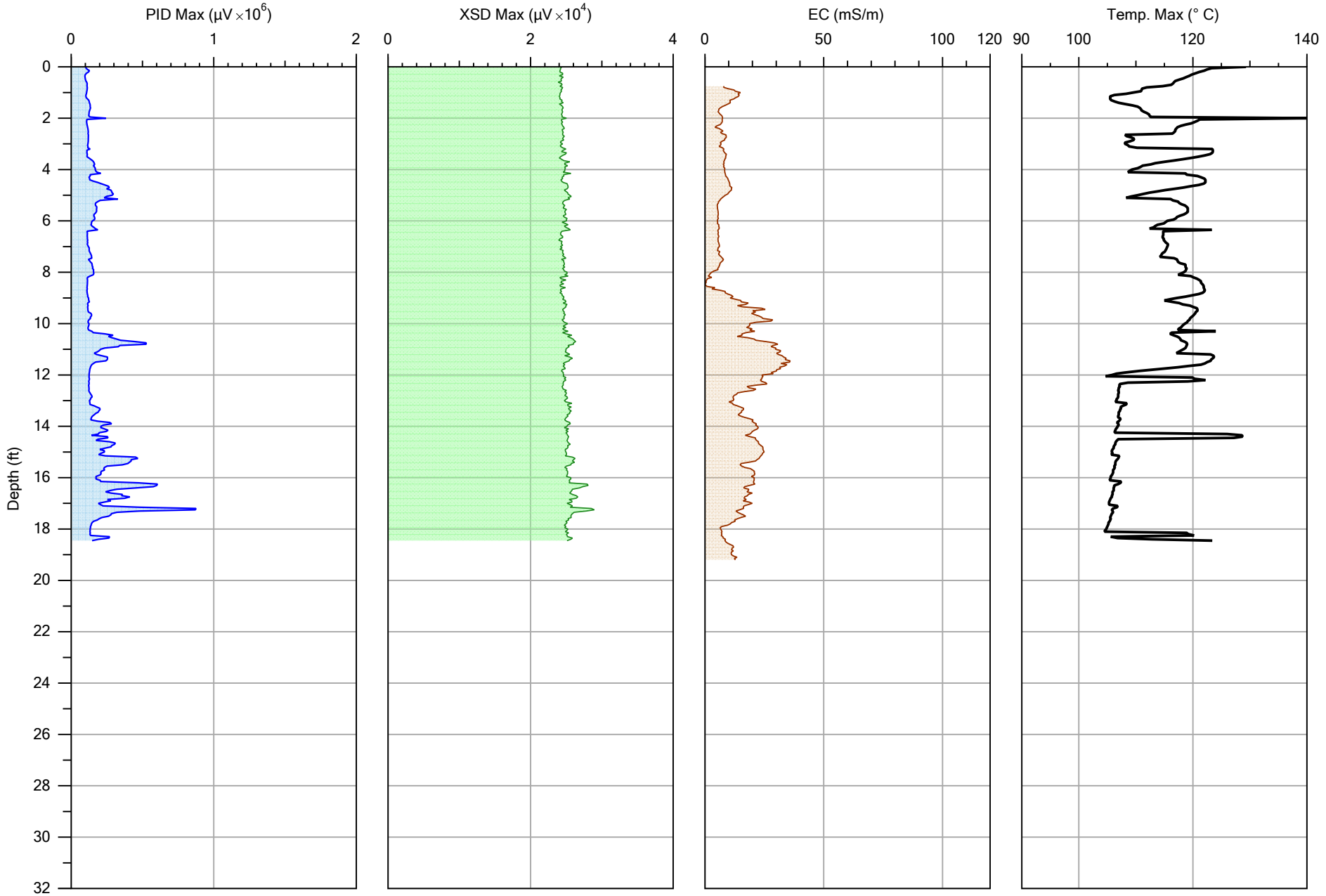
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



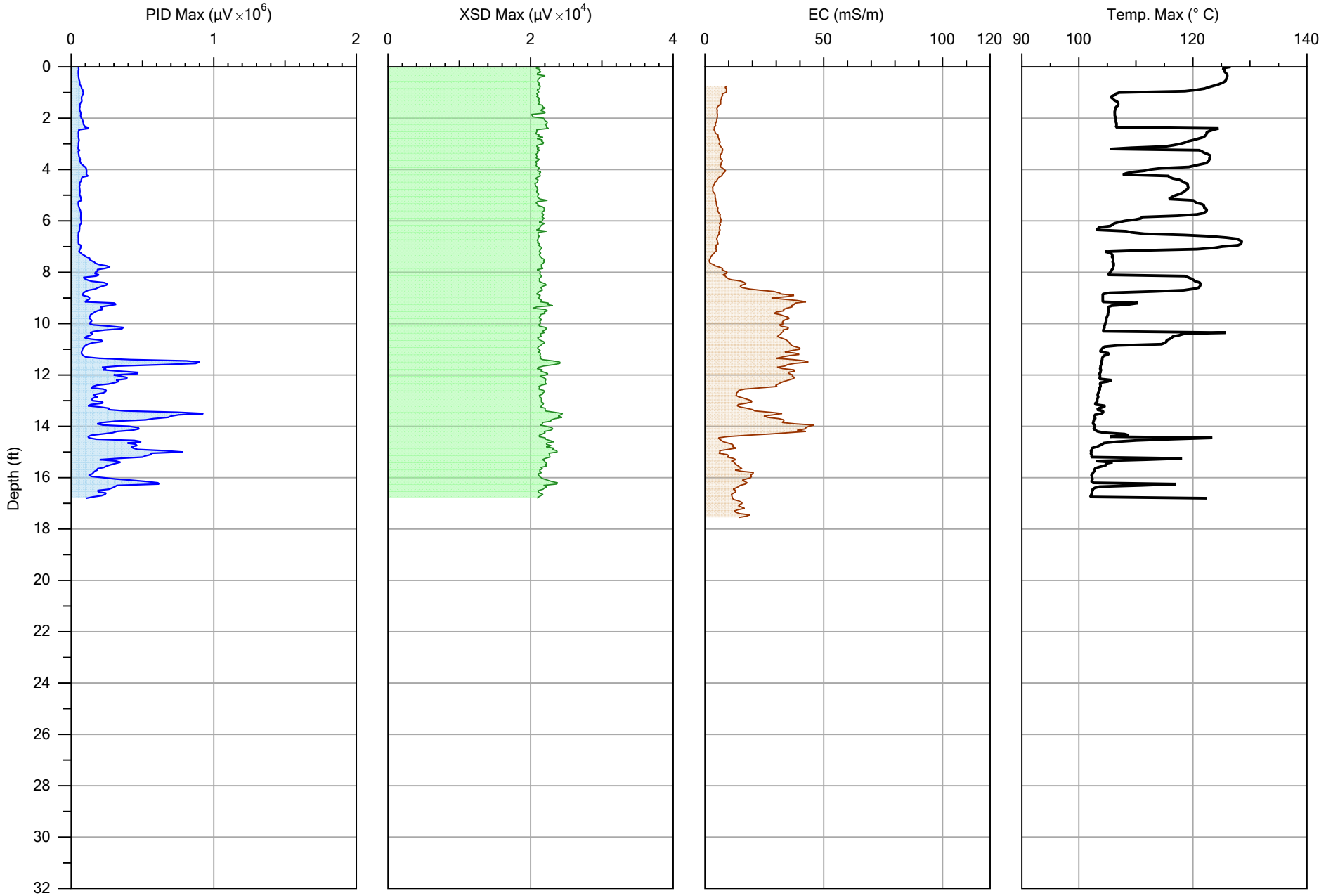
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



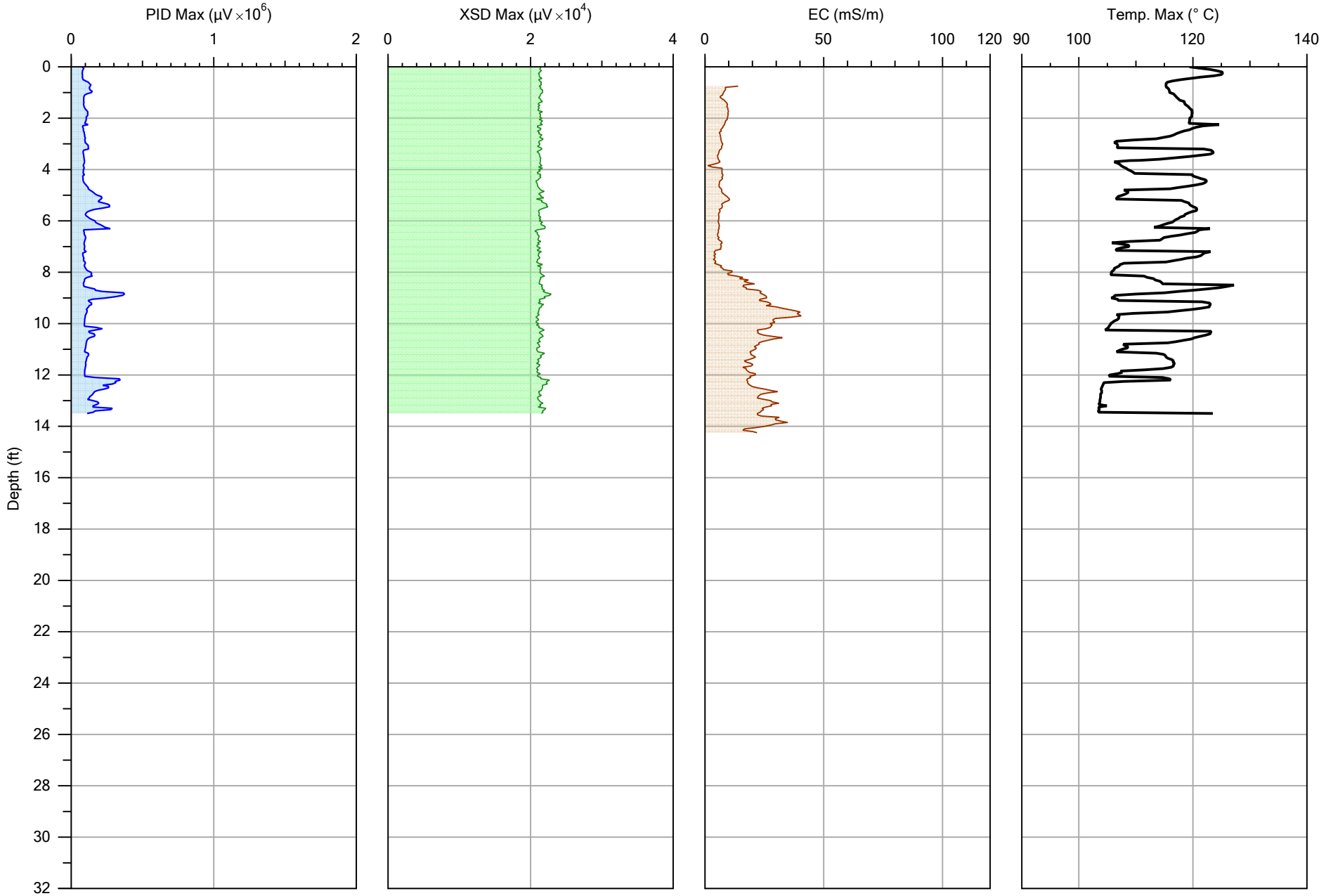
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



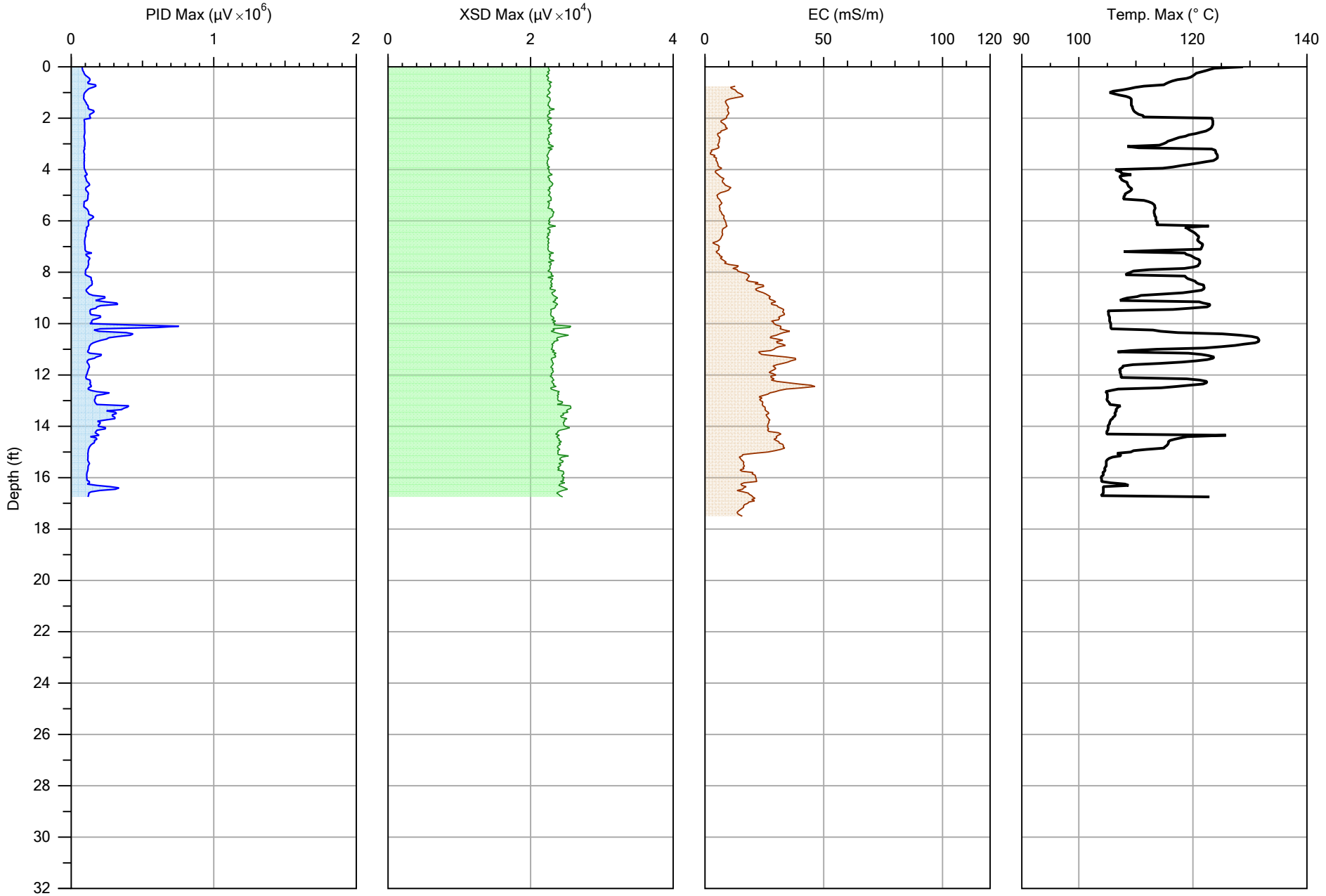
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



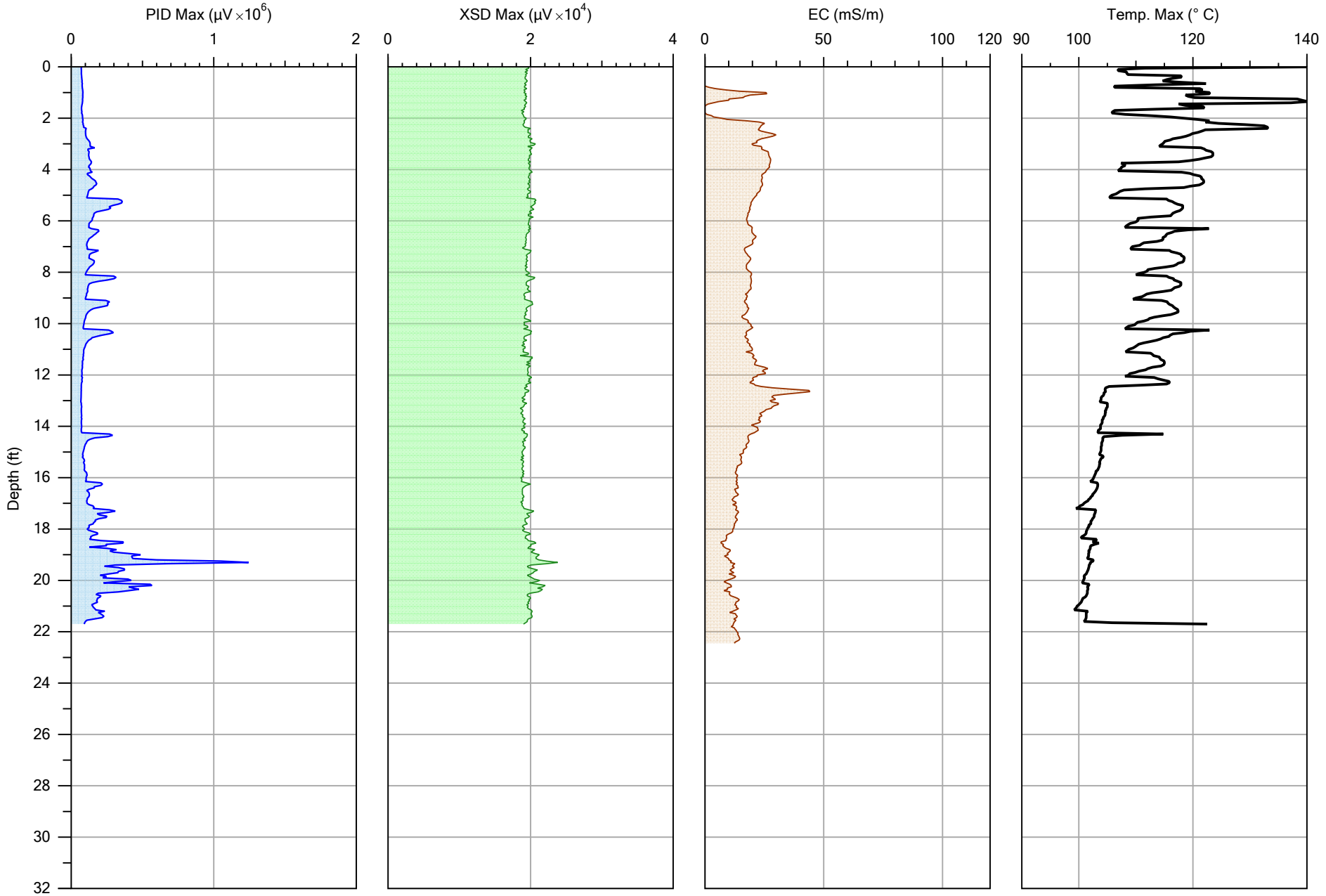
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



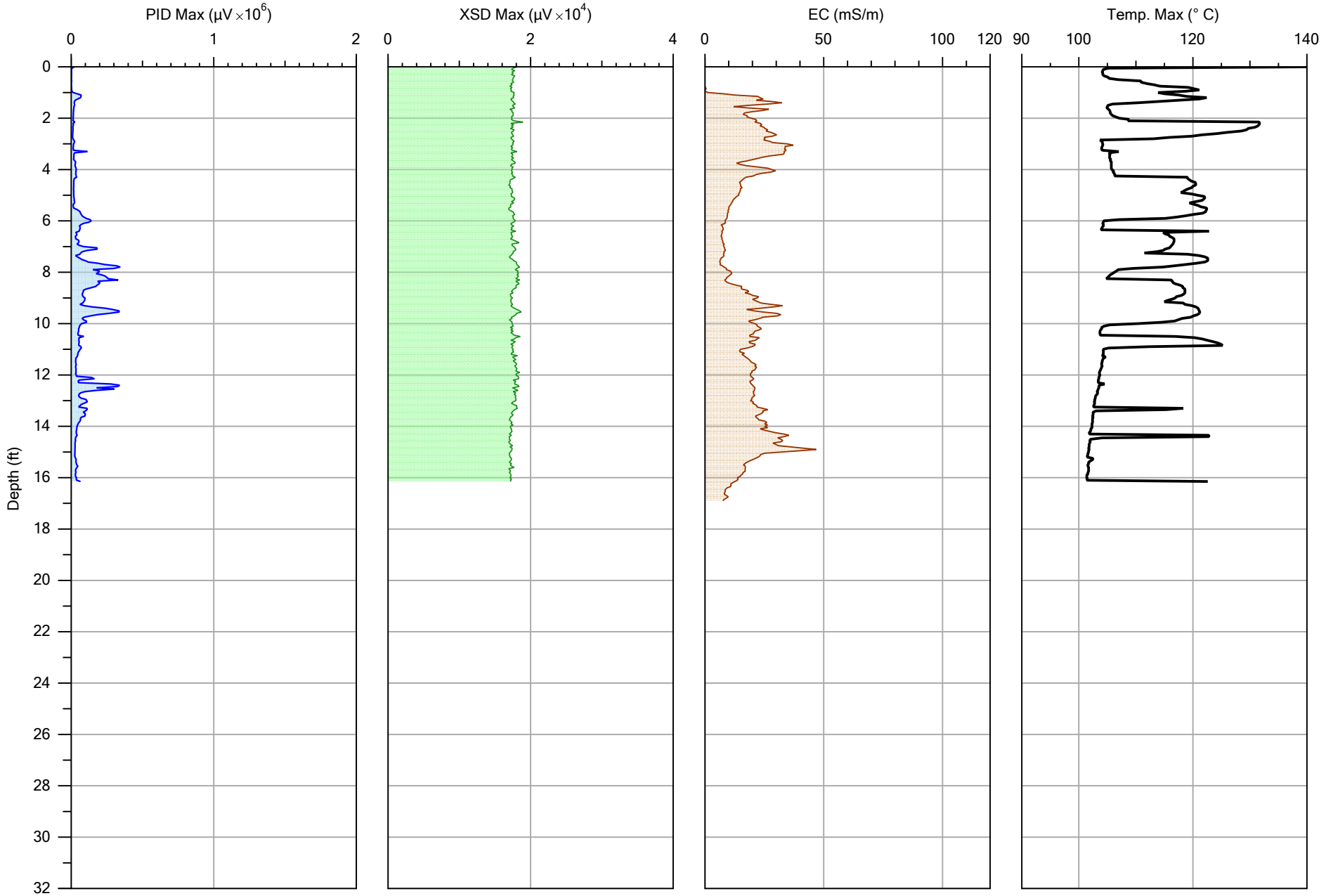
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/6/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



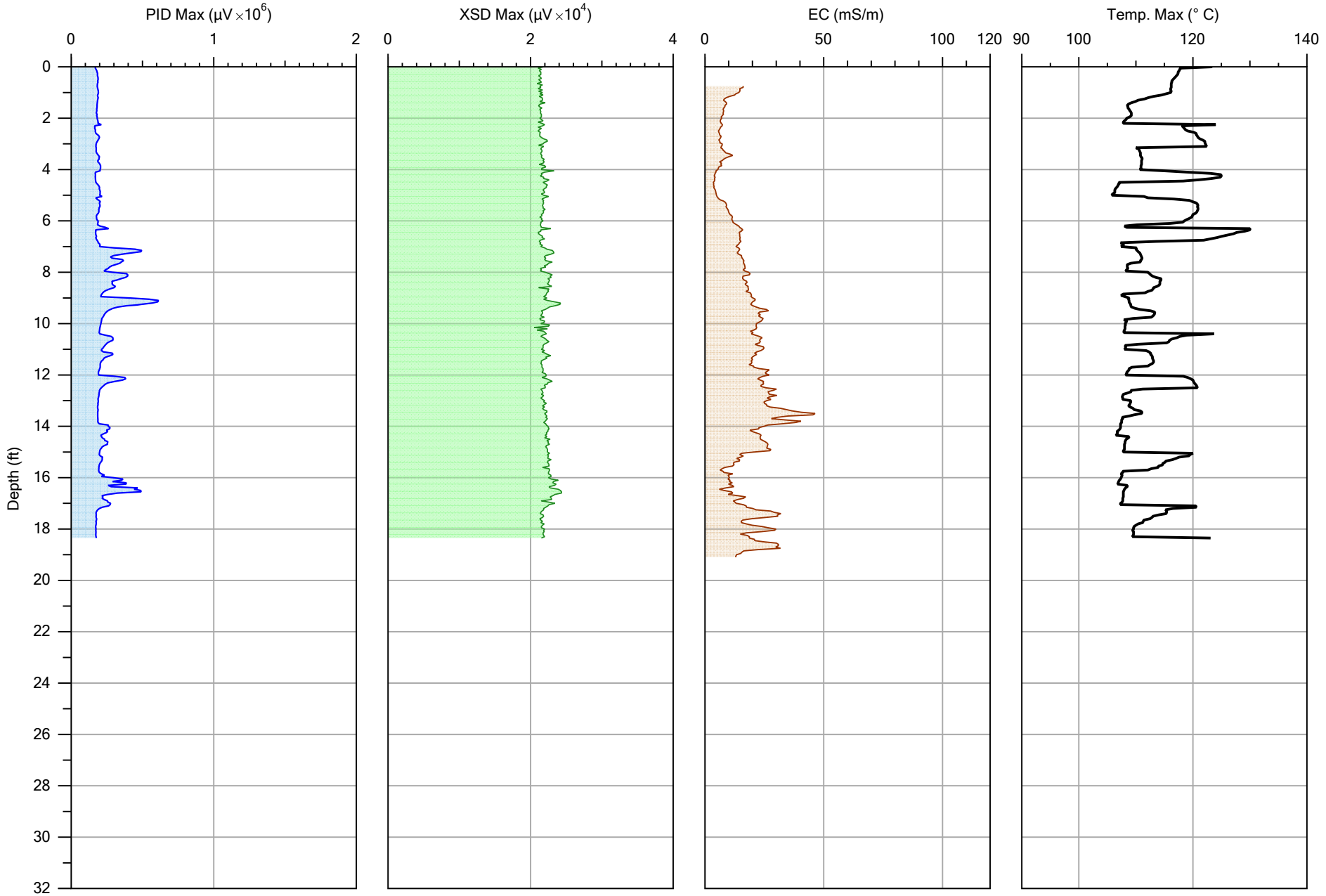
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



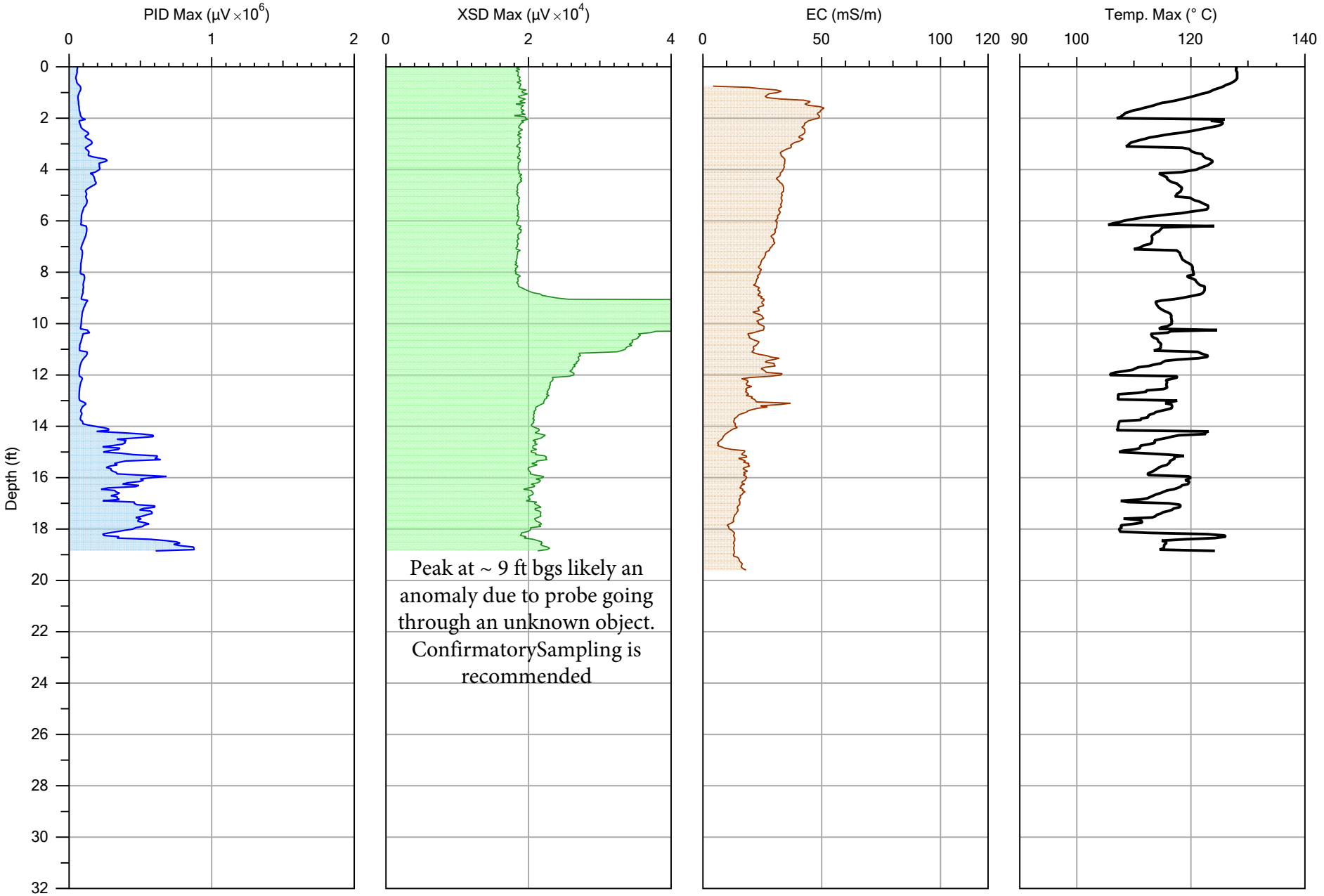
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



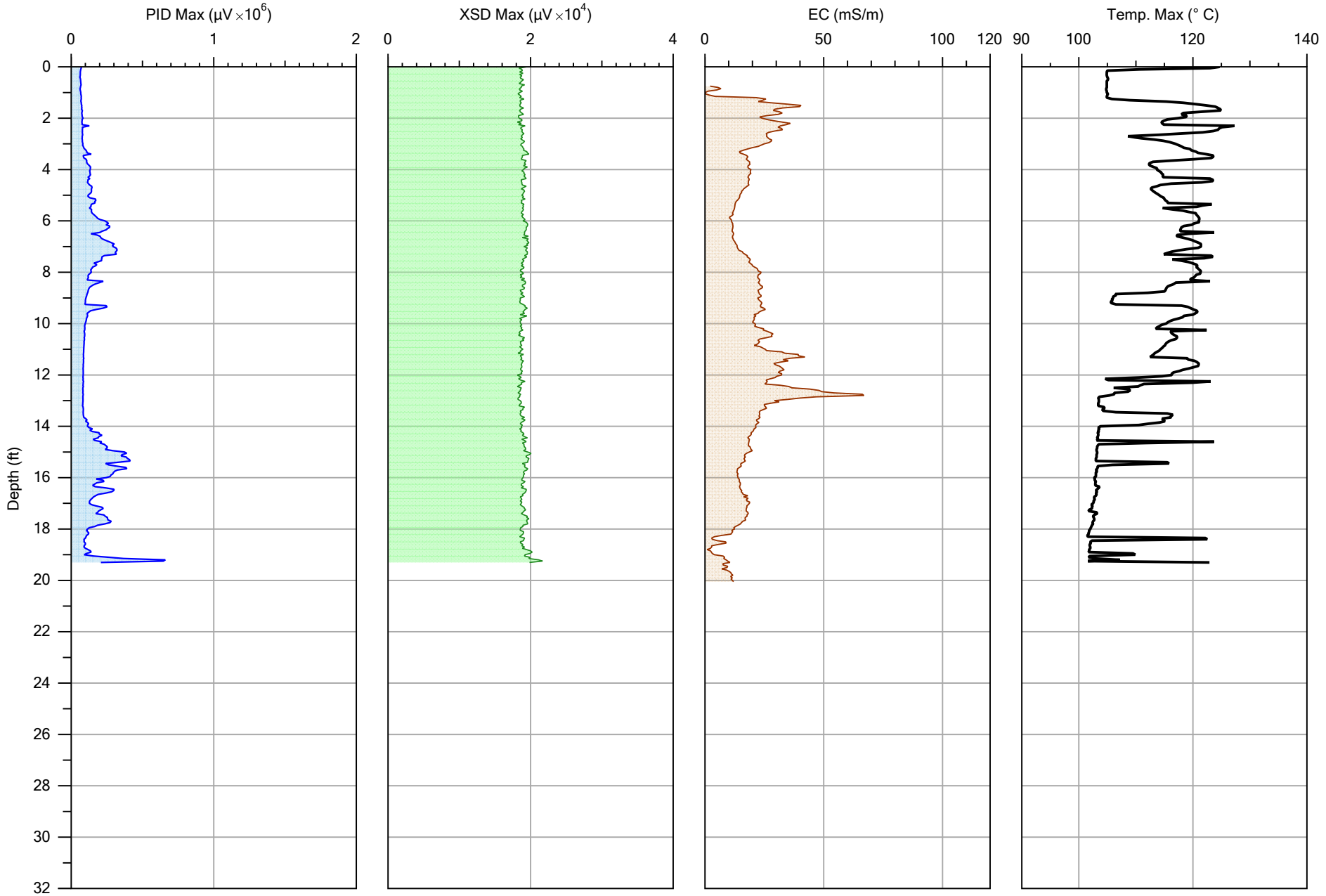
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



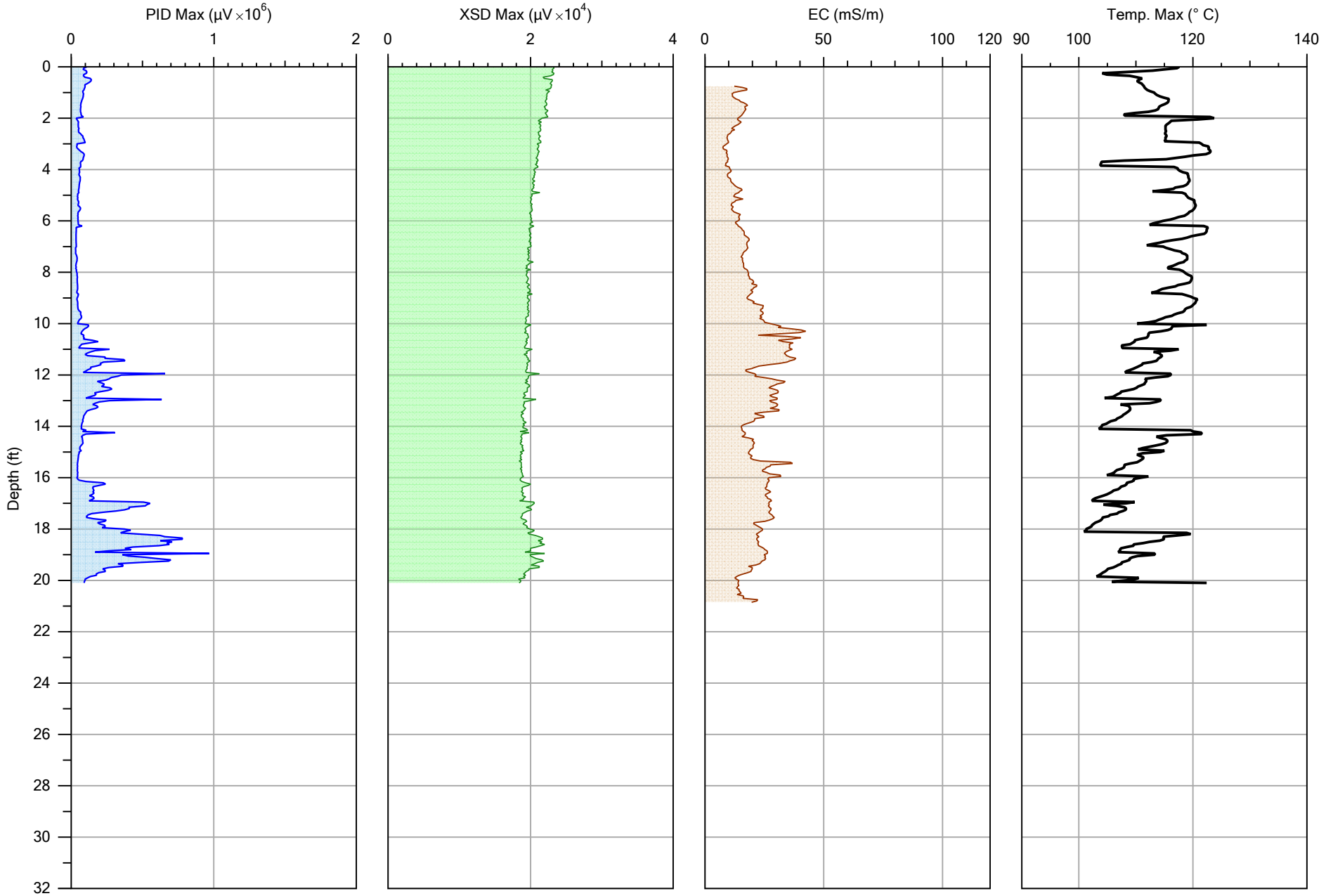
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



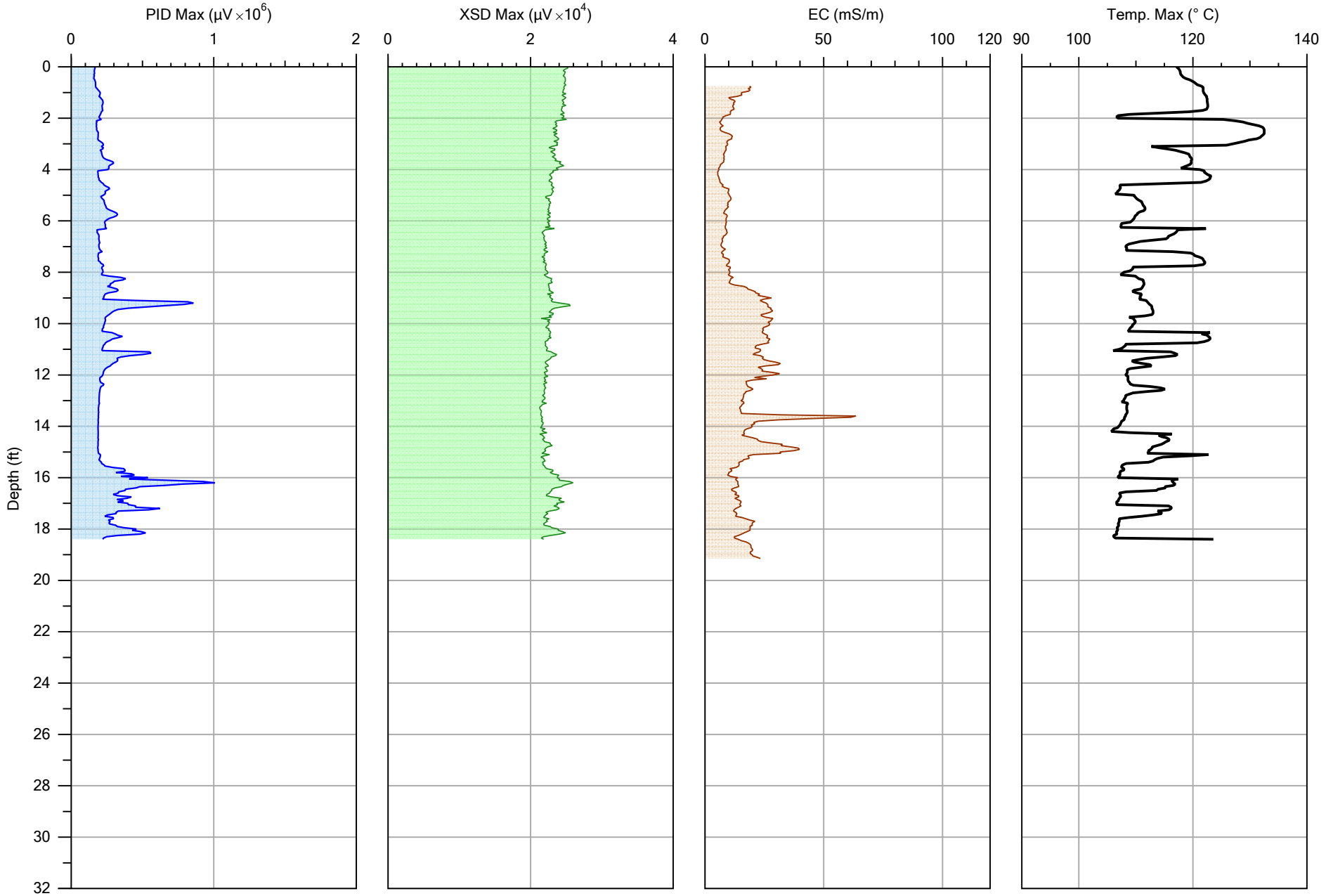
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



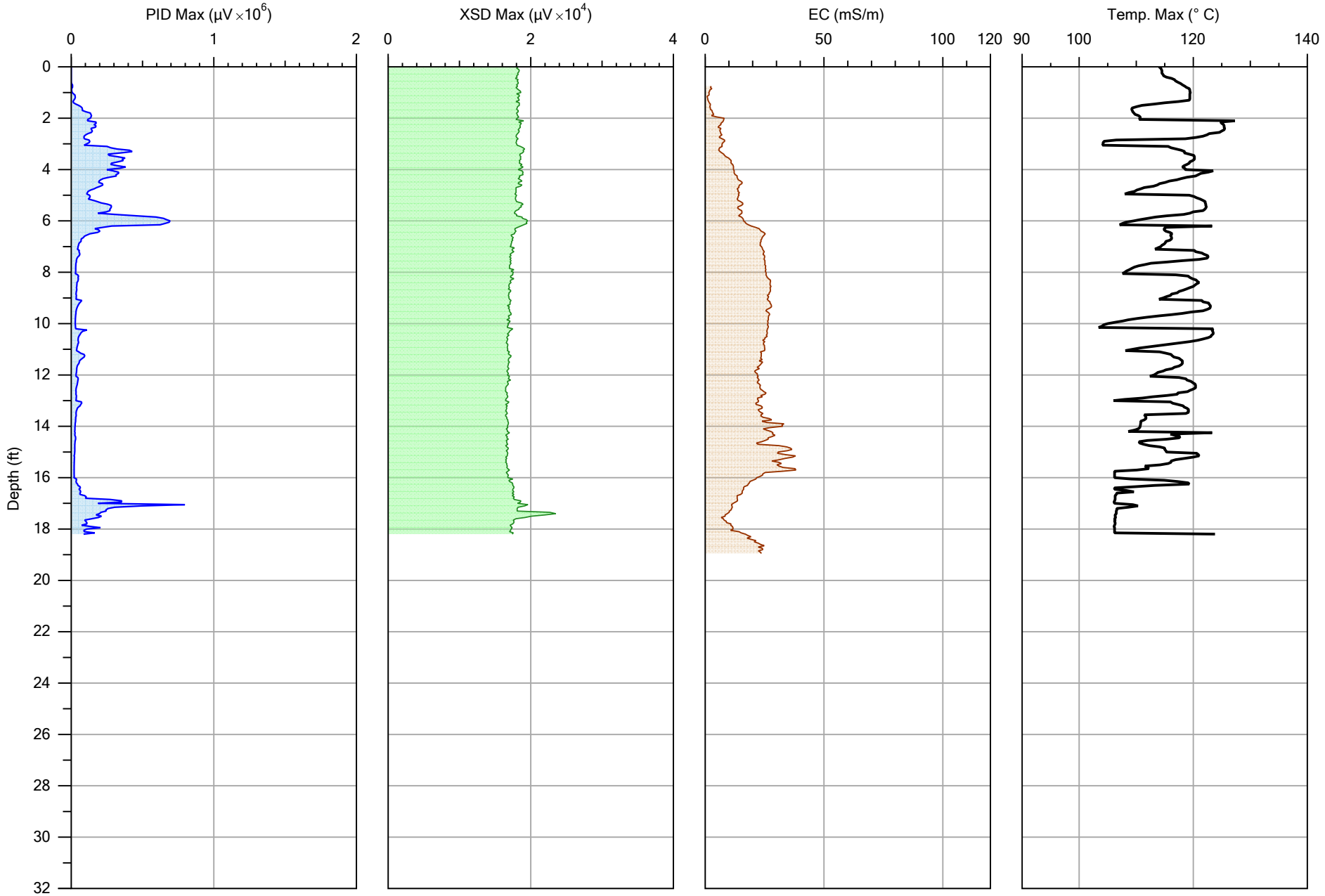
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



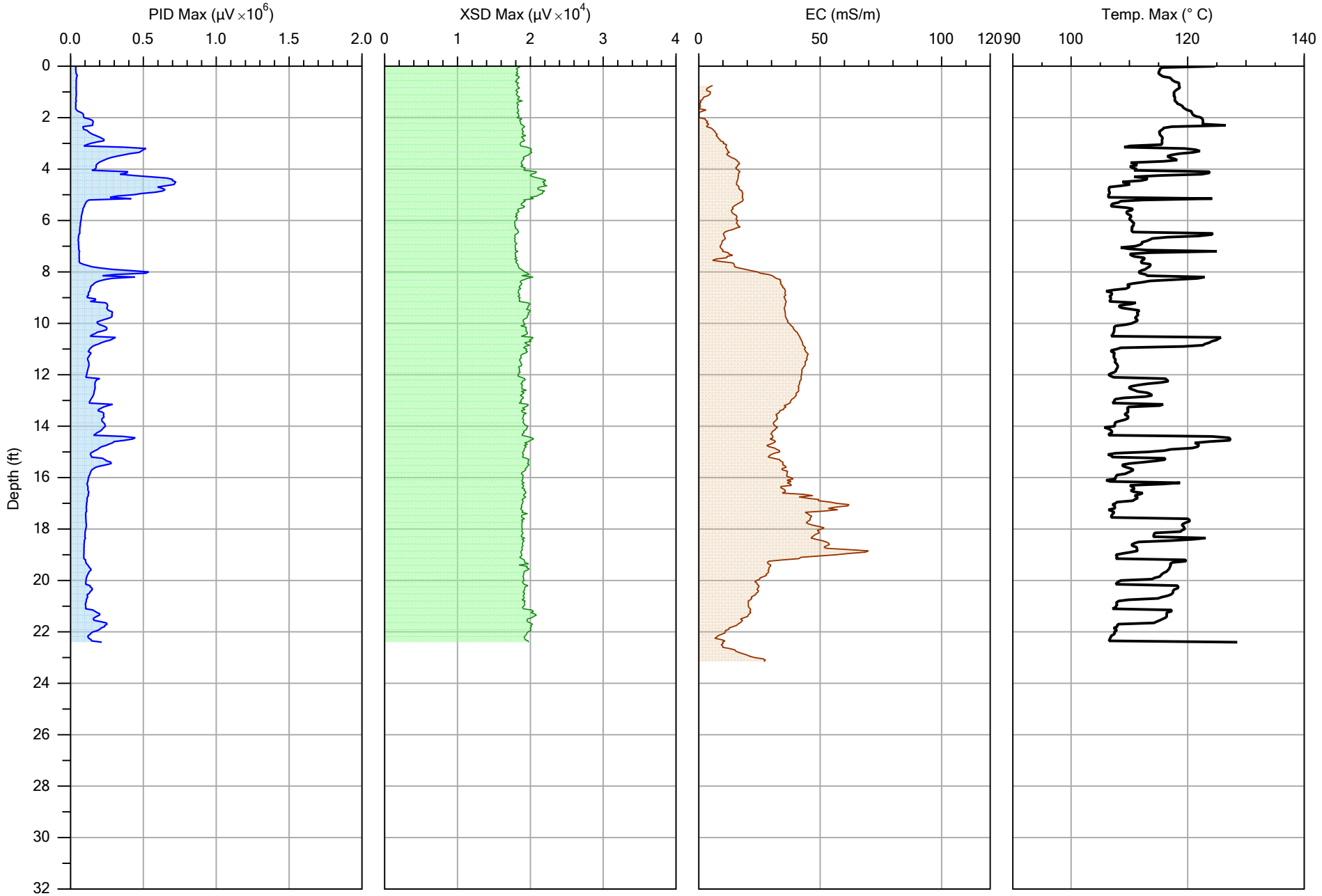
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



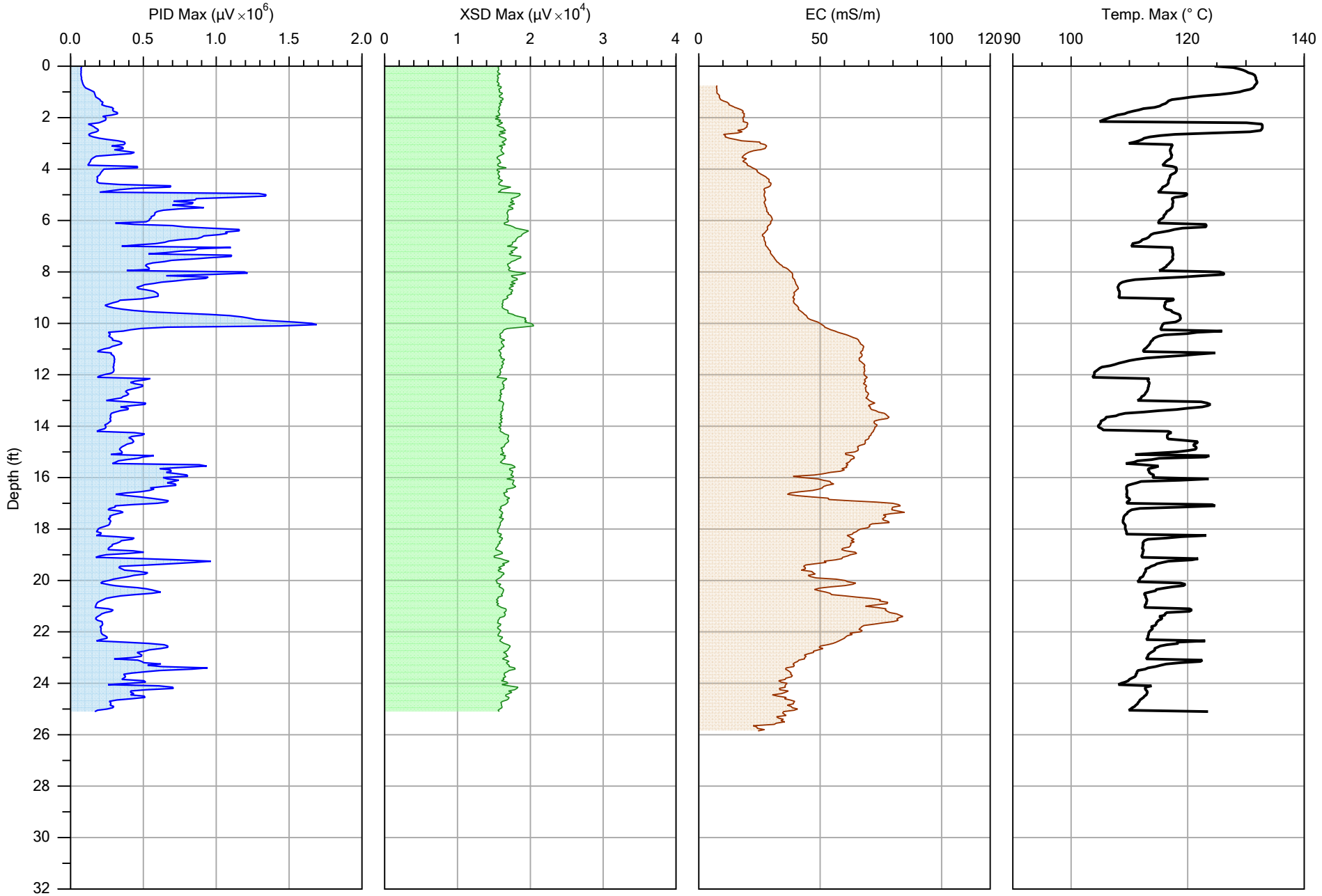
COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M24.MHP
		Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



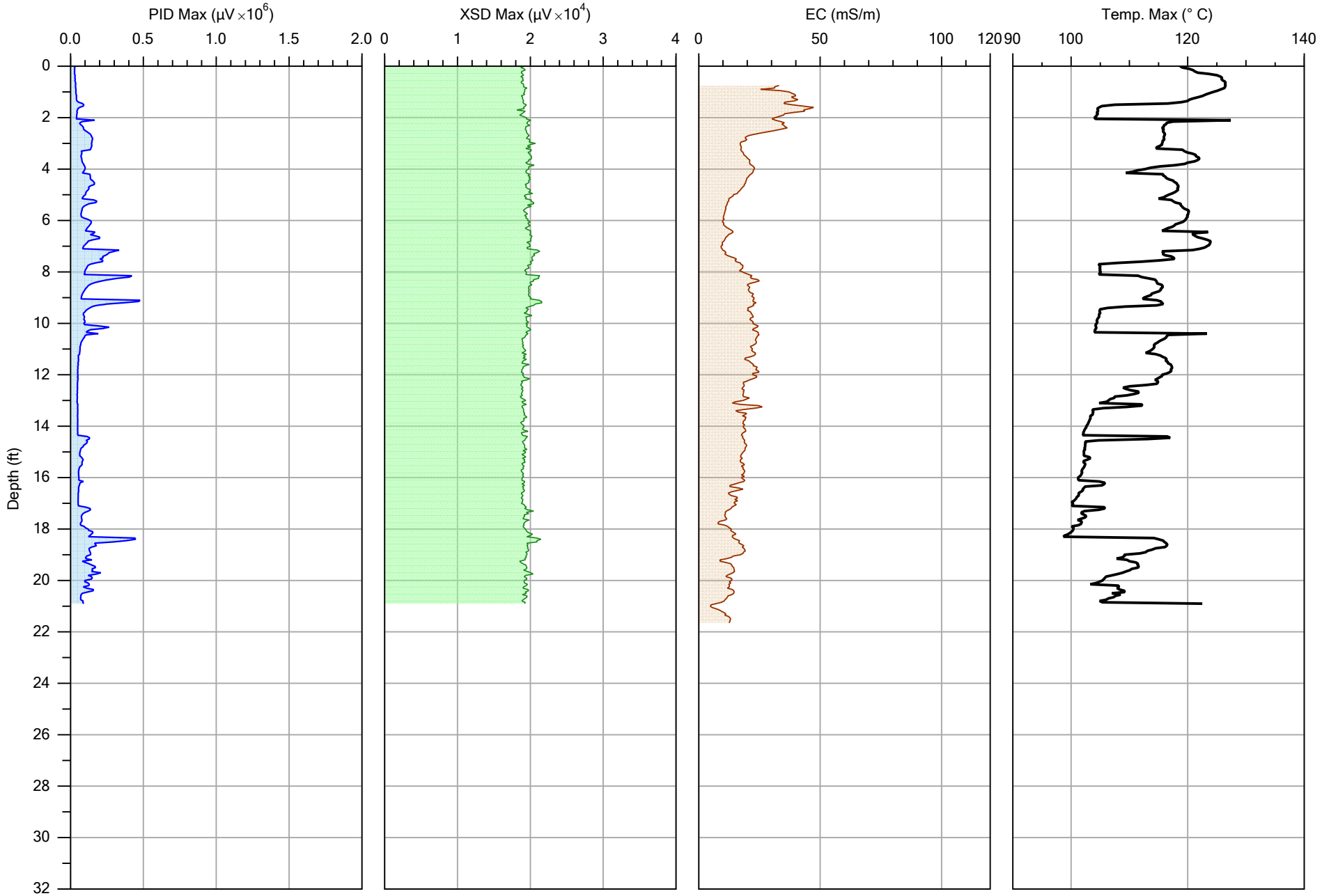
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



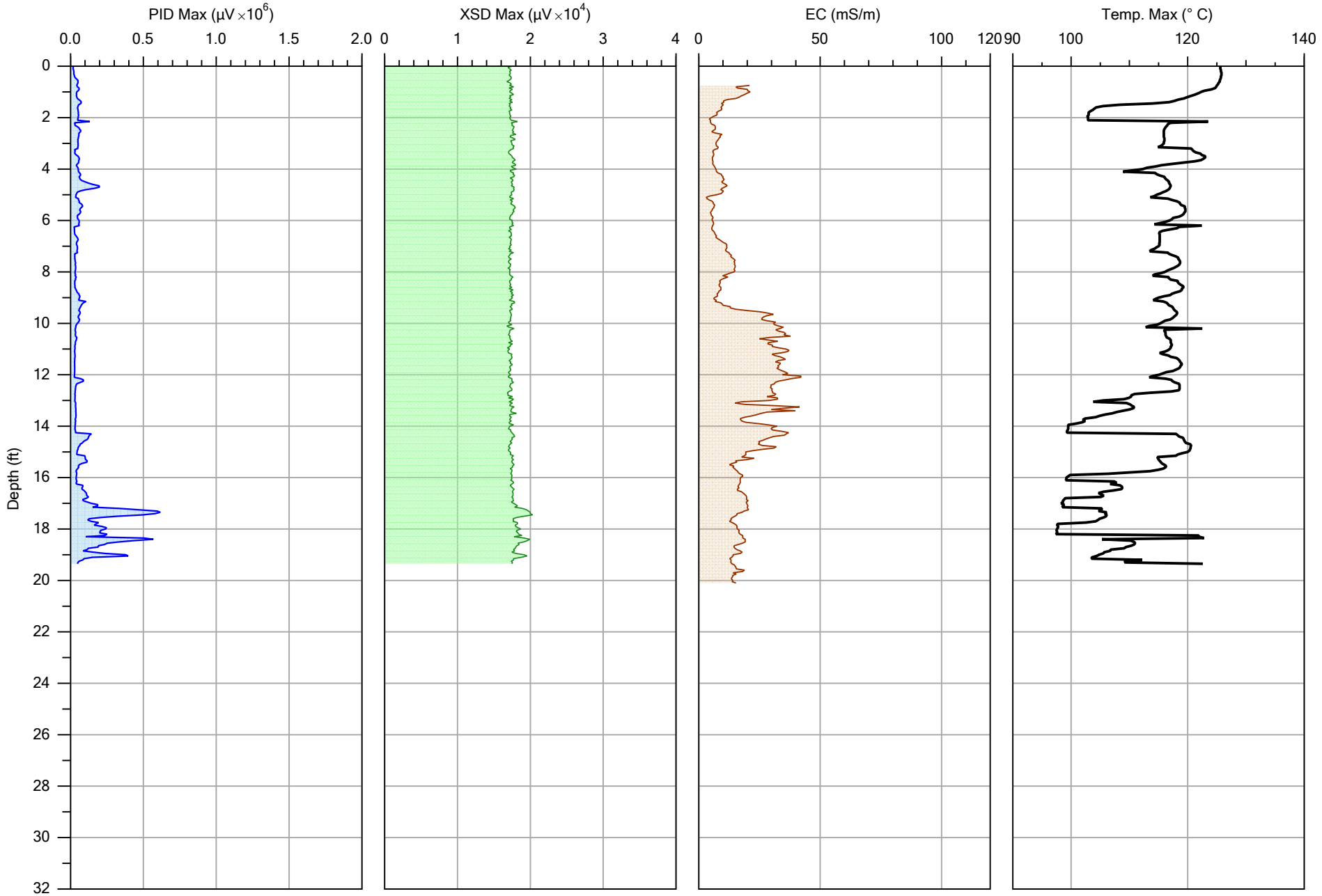
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



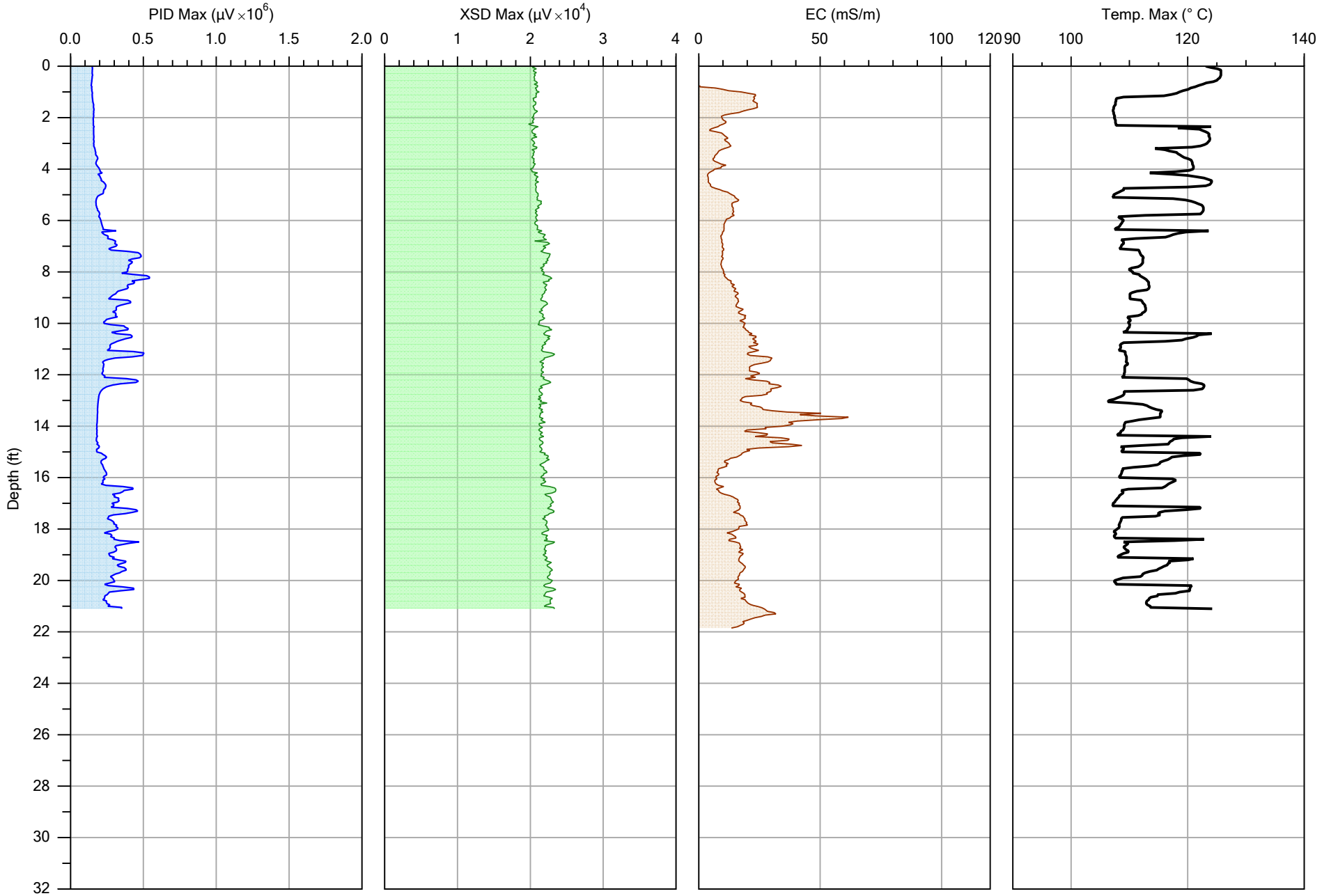
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



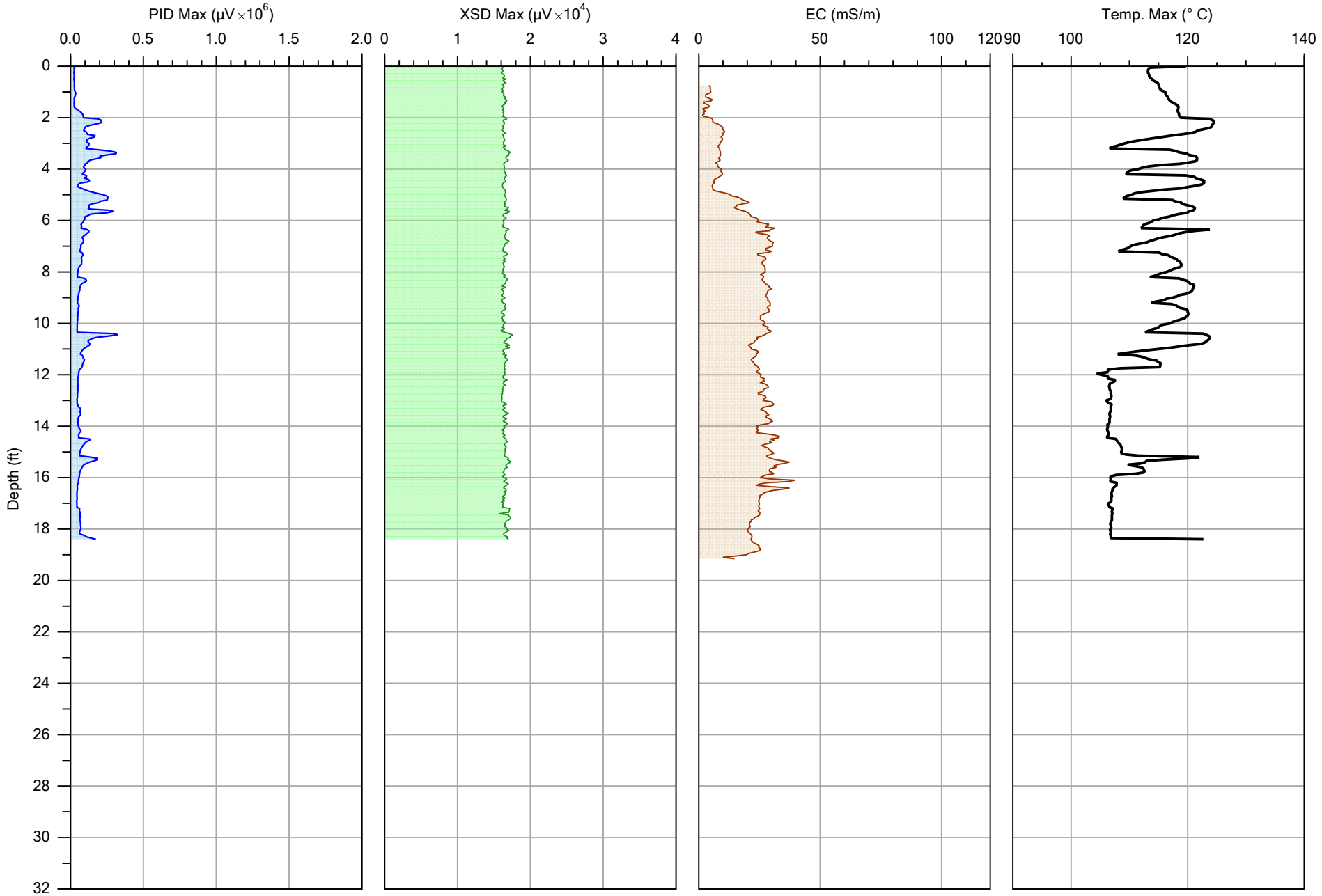
COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M29.MHP
Project ID: Dunn Field, DDMT	Client: Trinity	Date: 3/5/2017
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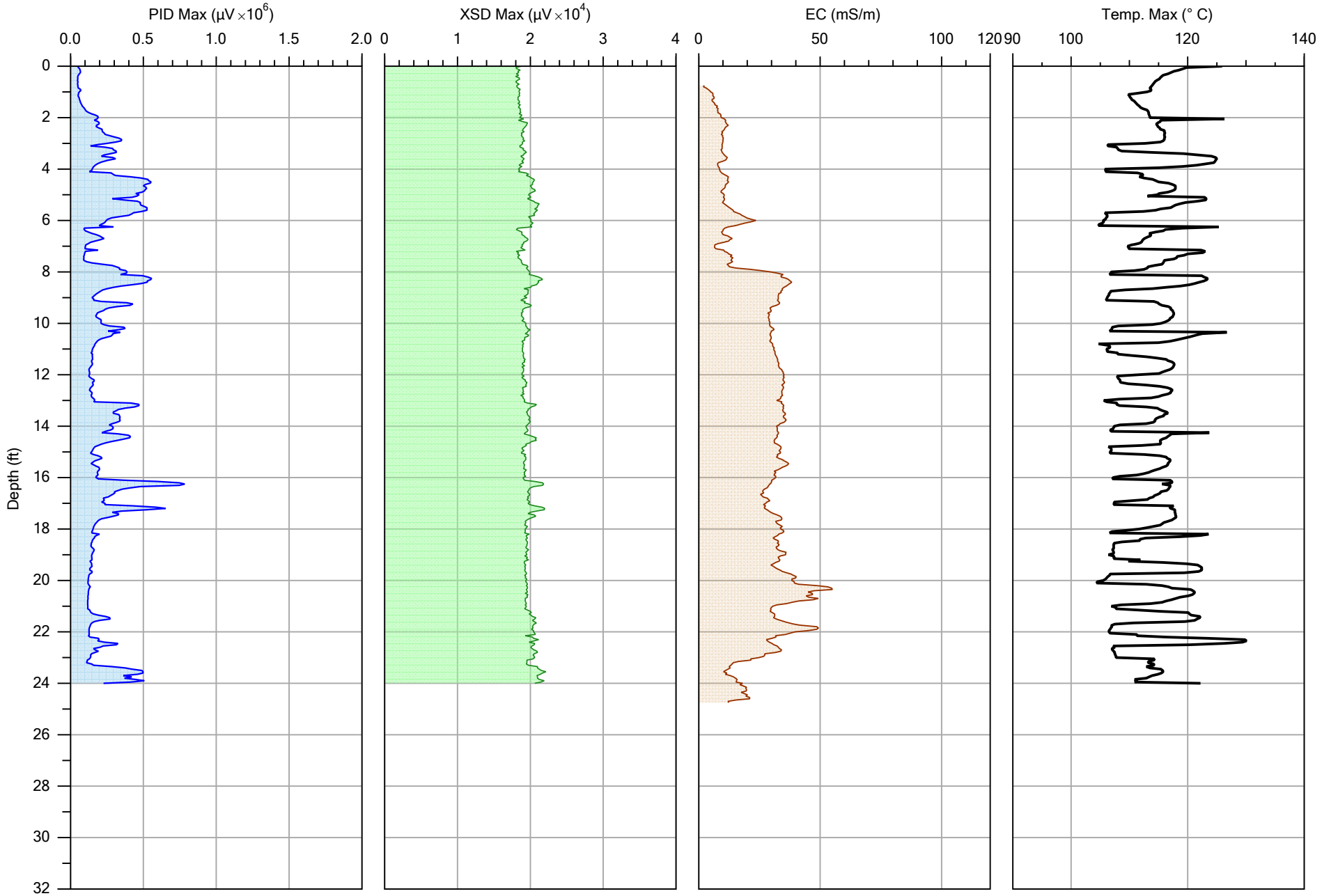
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



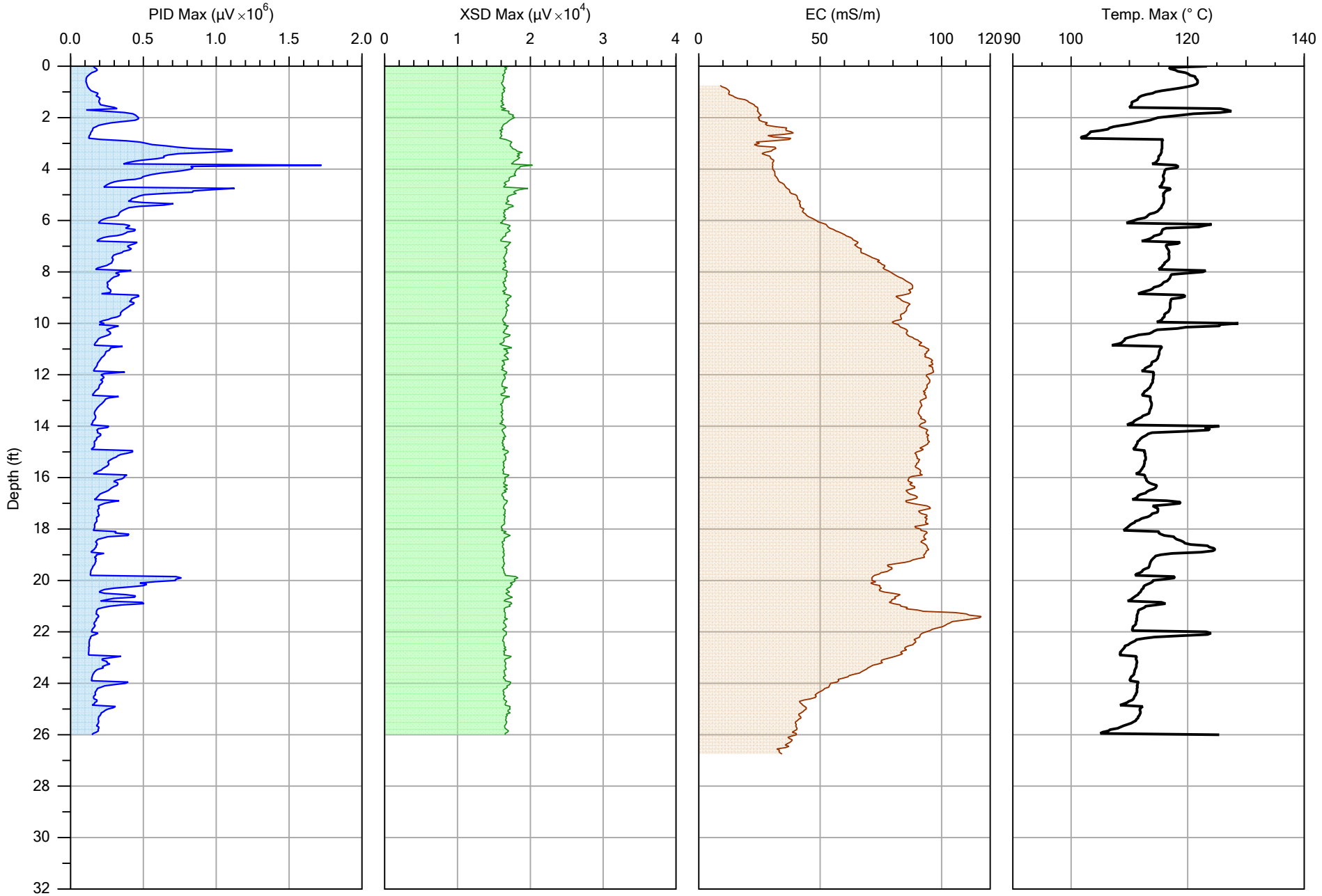
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



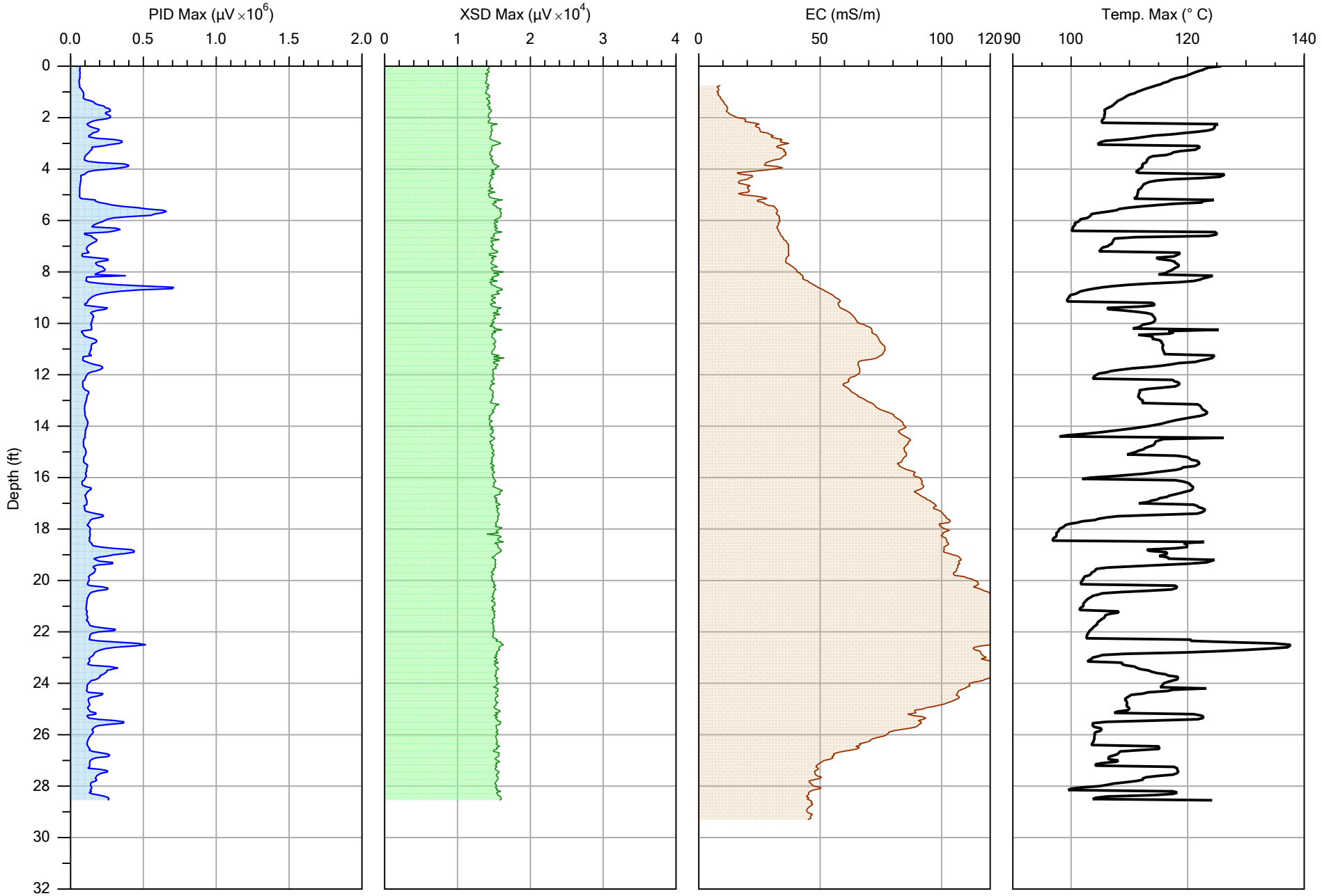
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



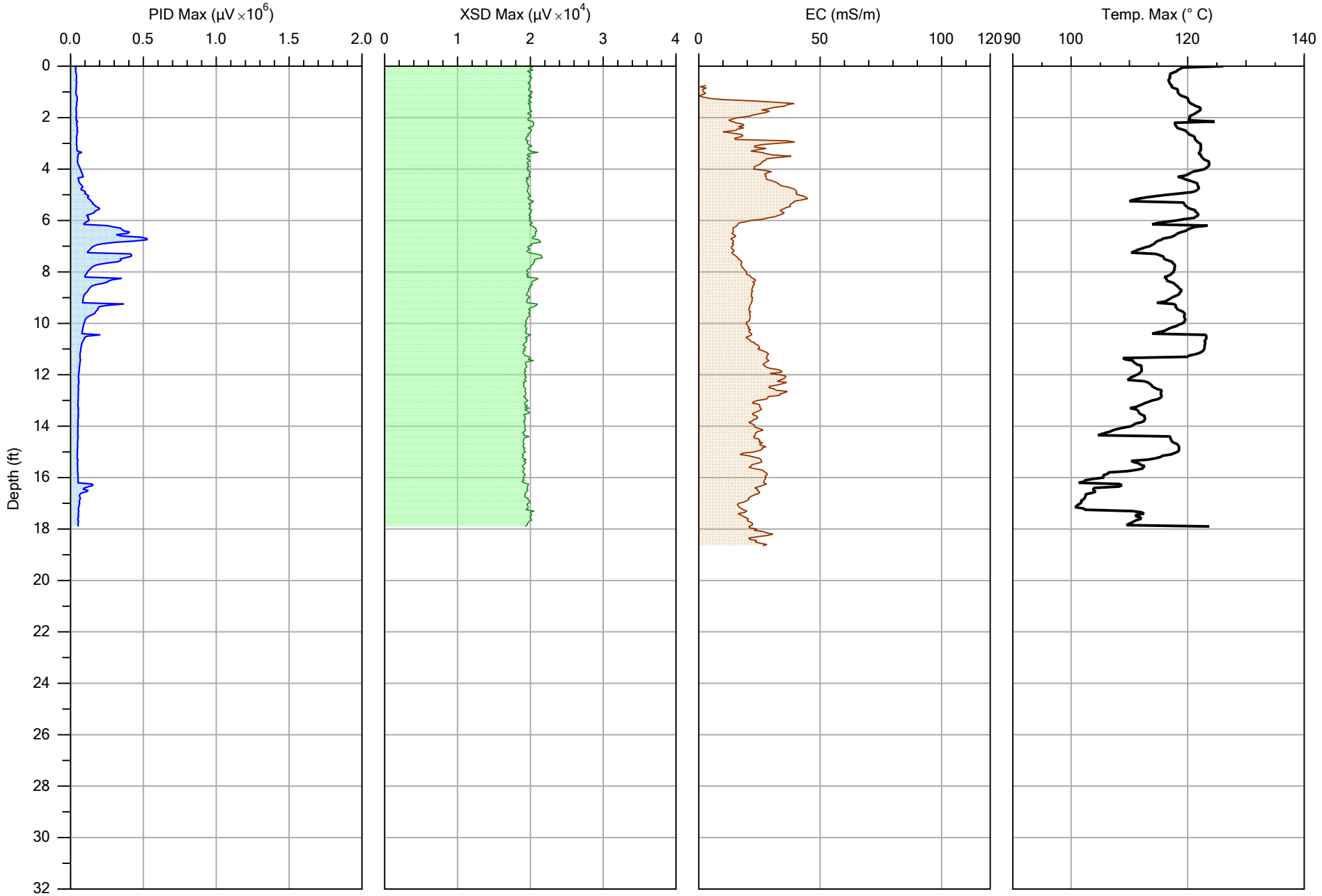
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



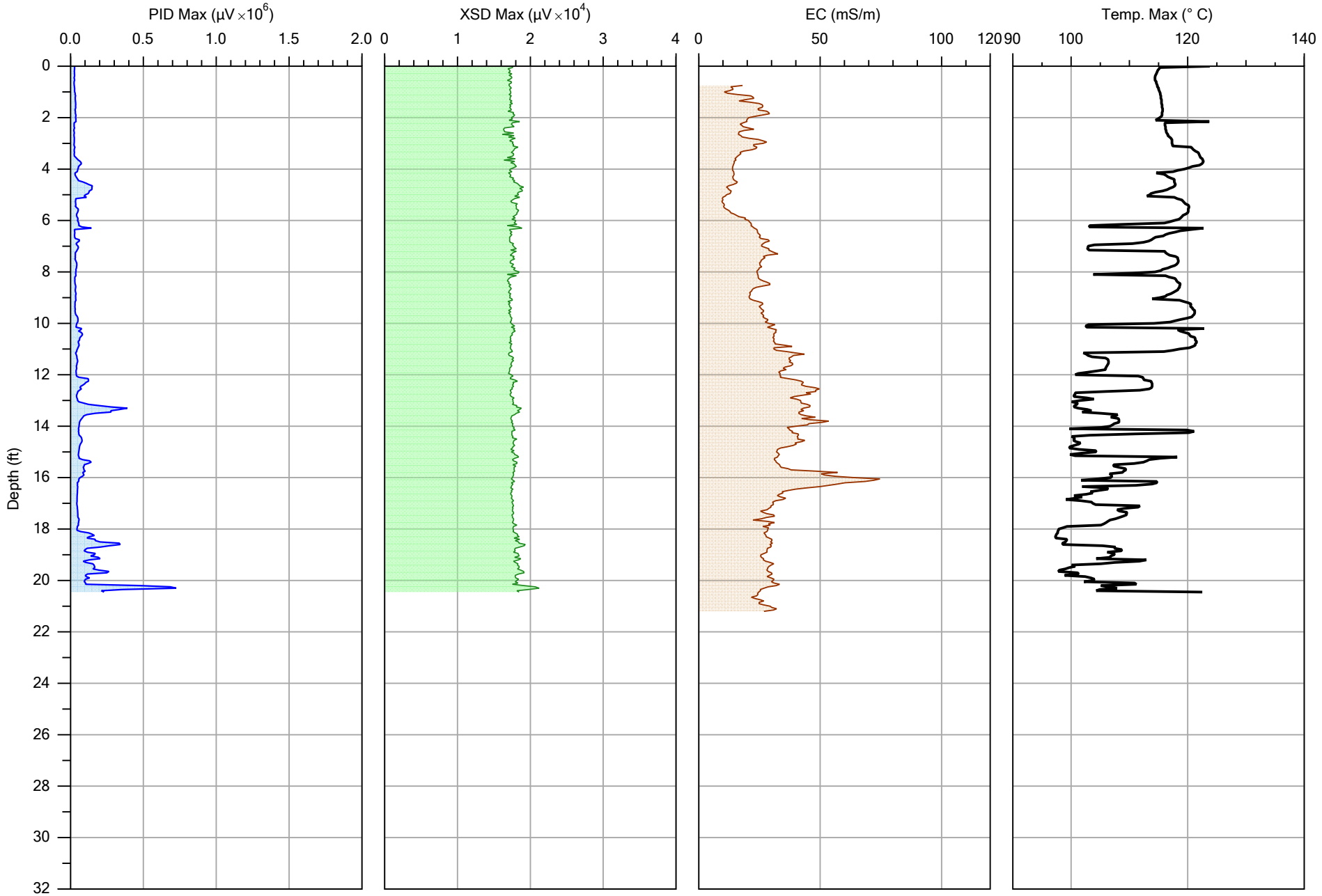
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



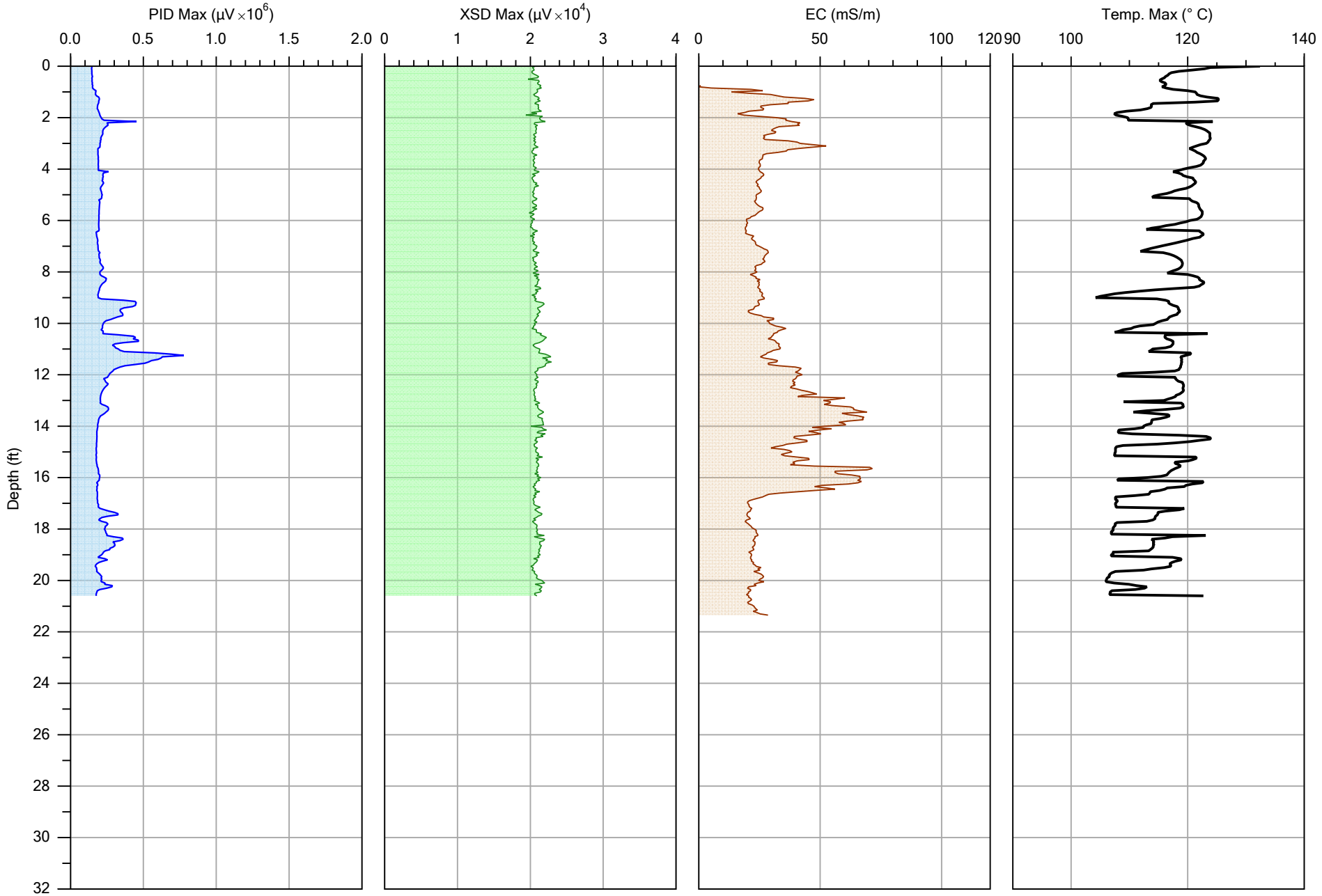
COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M35.MHP
		Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



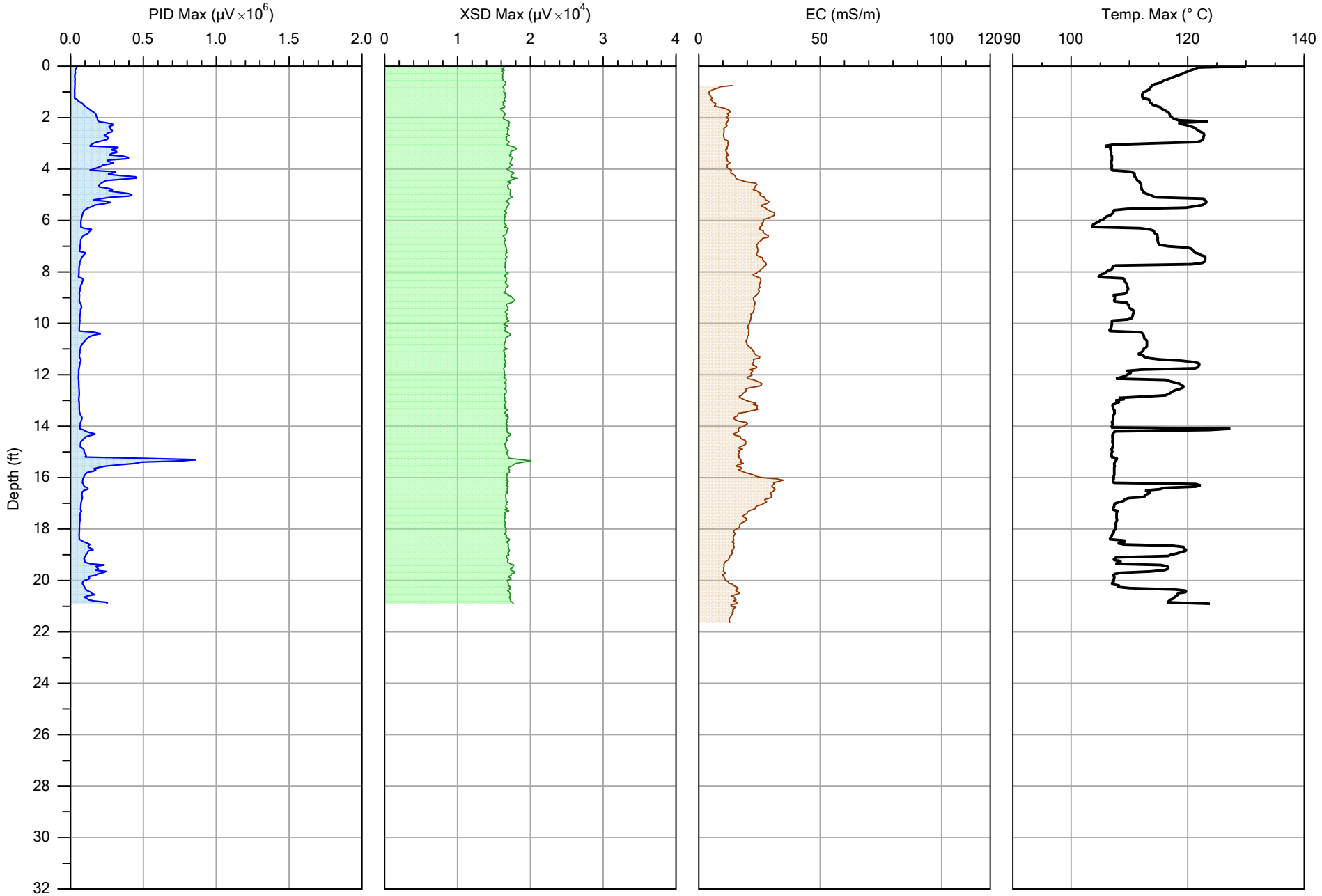
COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M36.MHP
Project ID: Dunn Field, DDMT	Client: Trinity	Date: 3/5/2017
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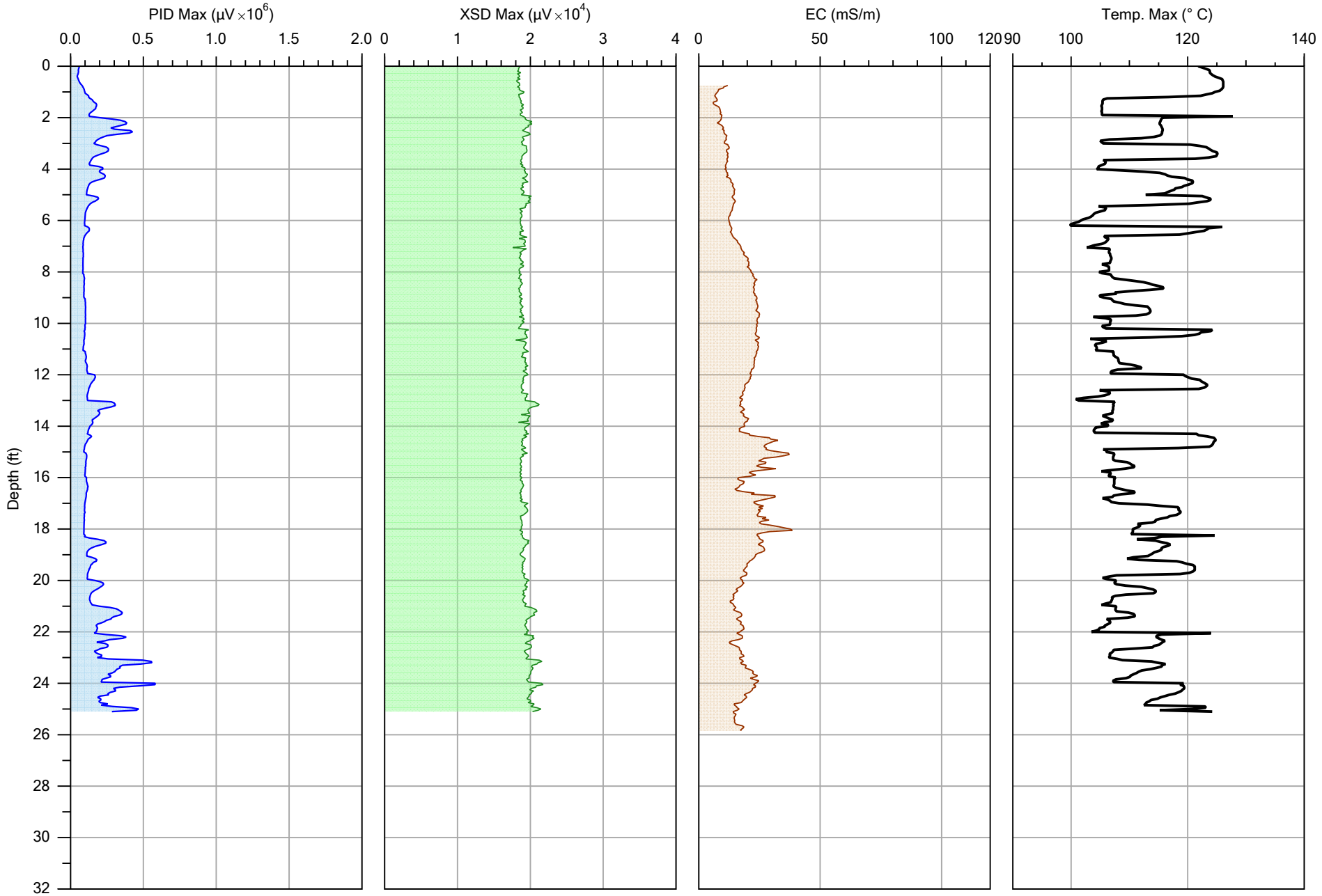
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



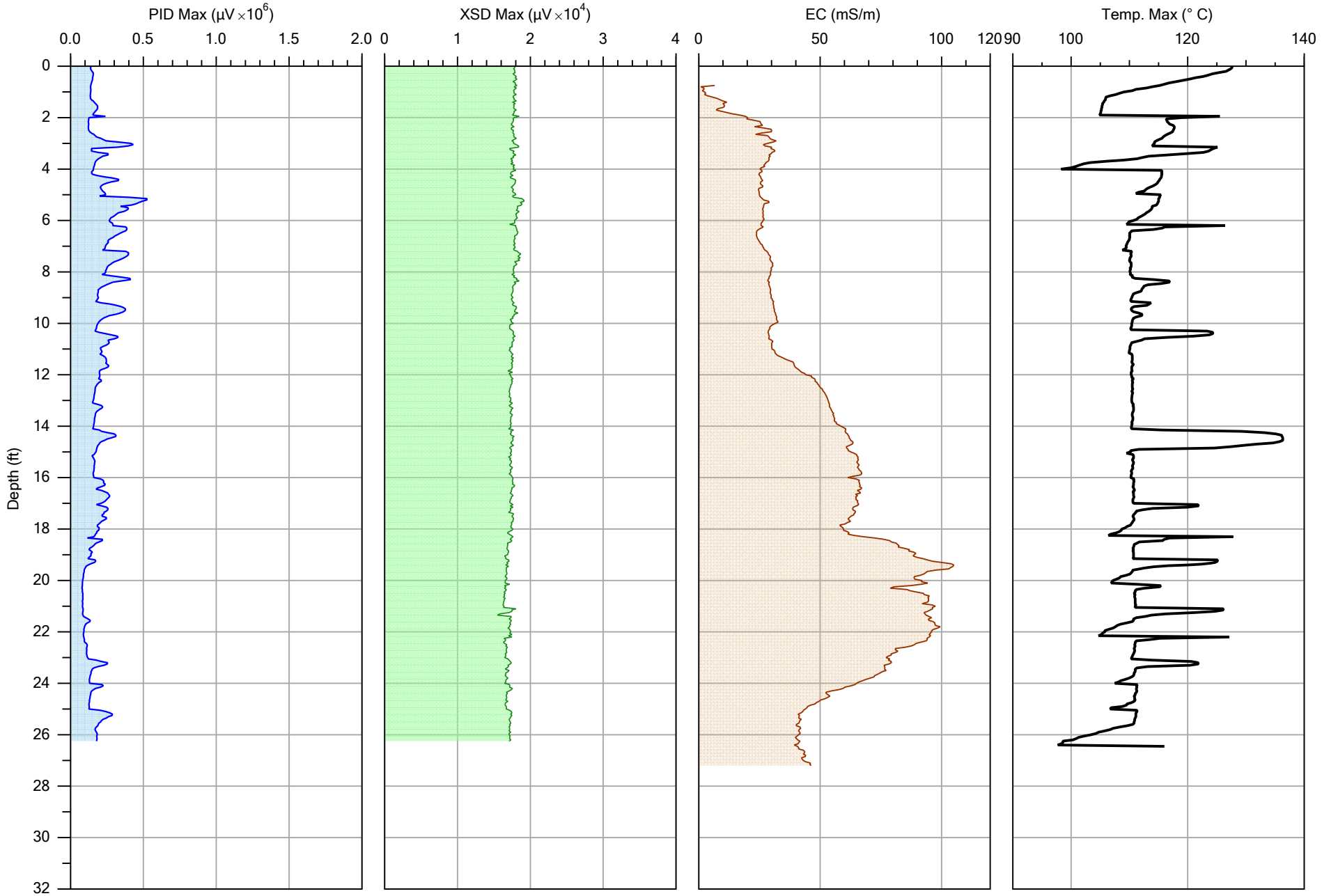
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



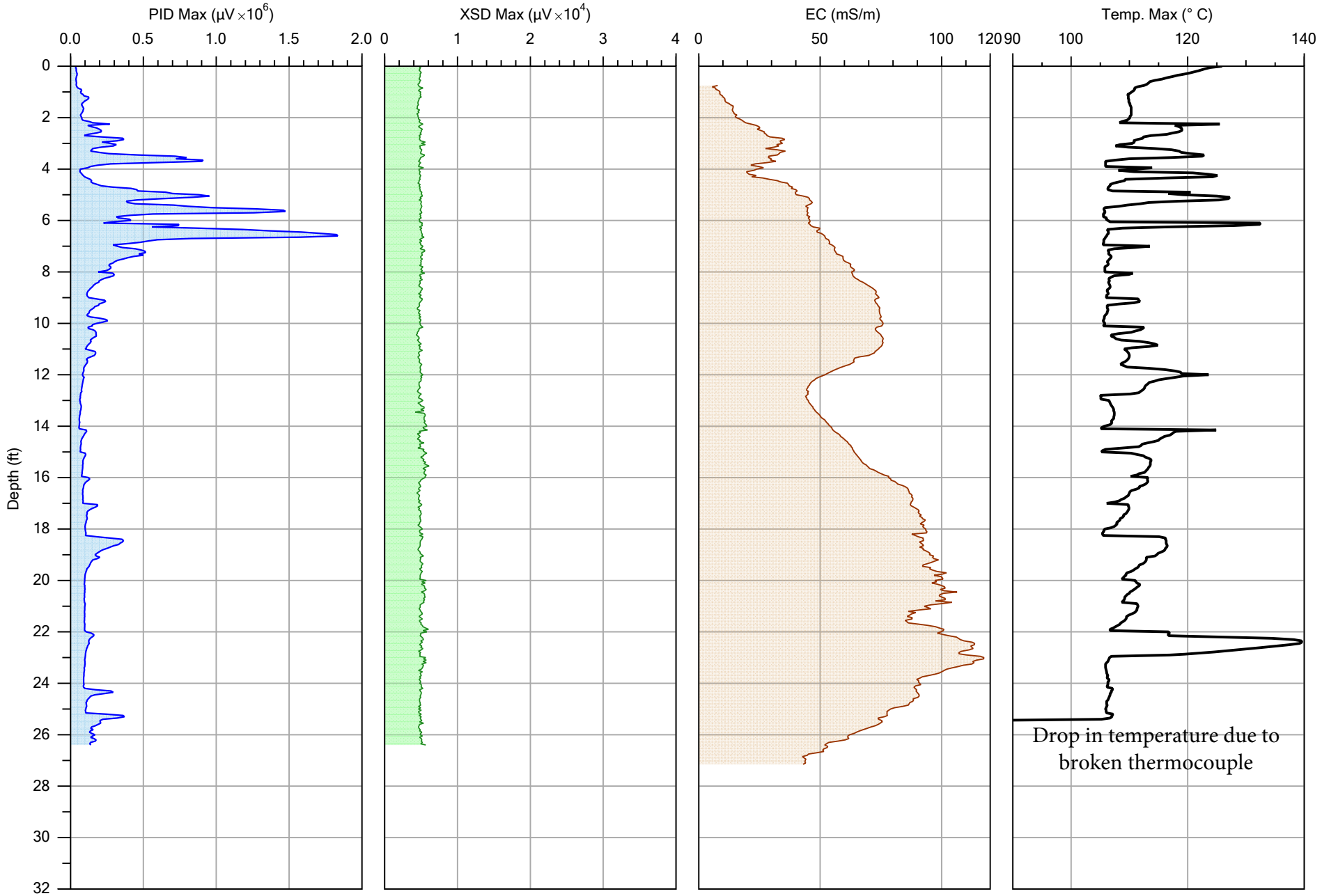
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



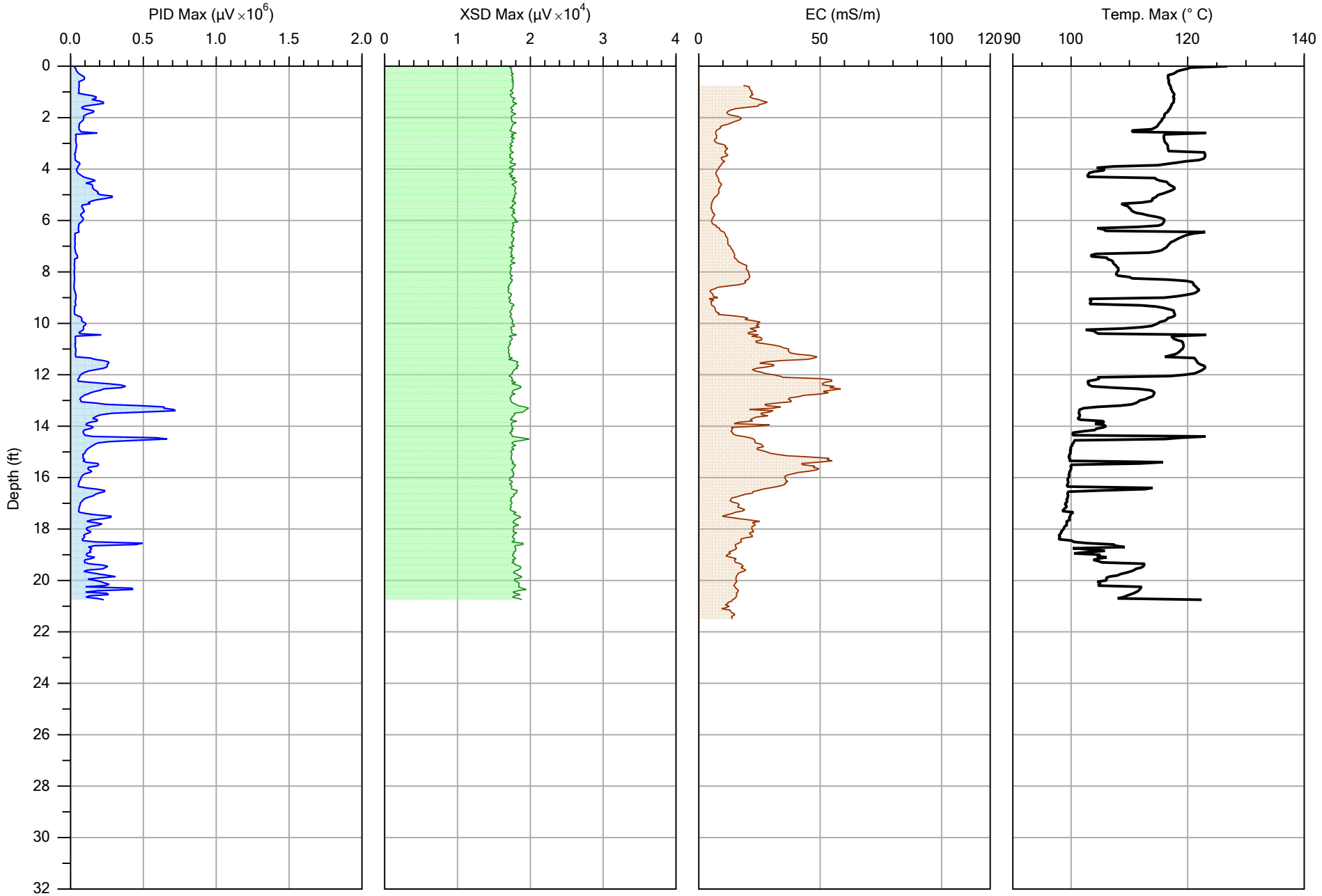
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



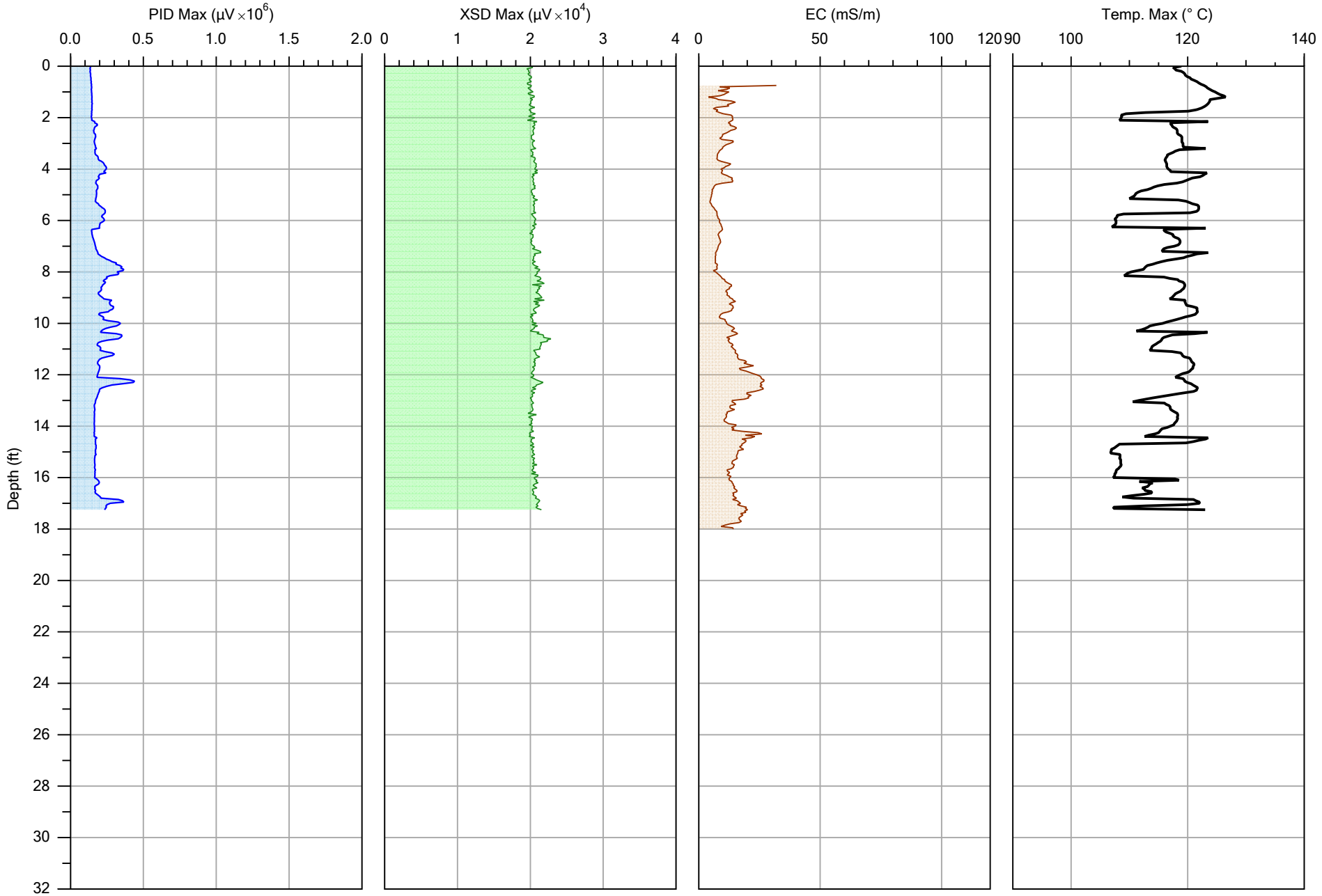
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



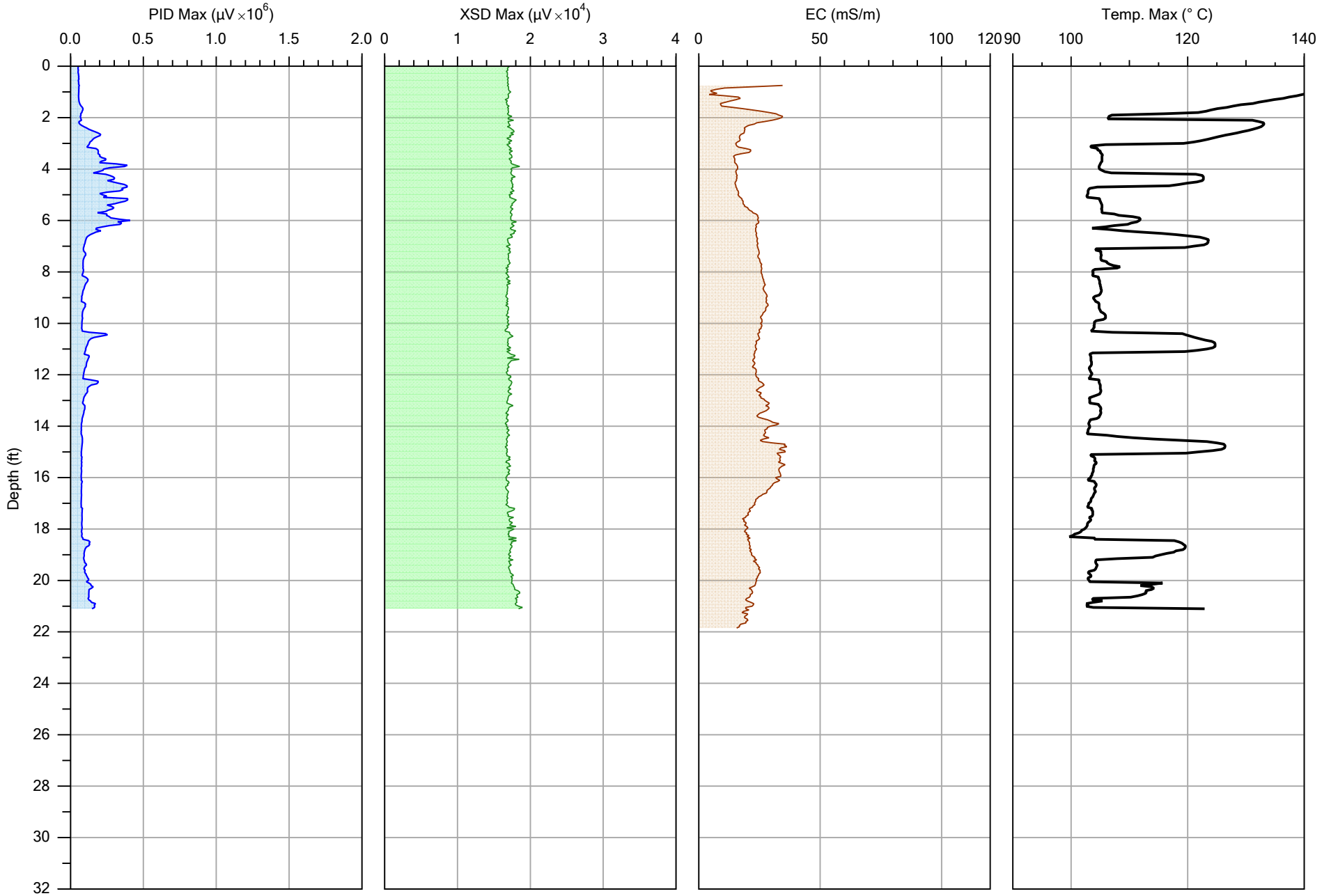
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



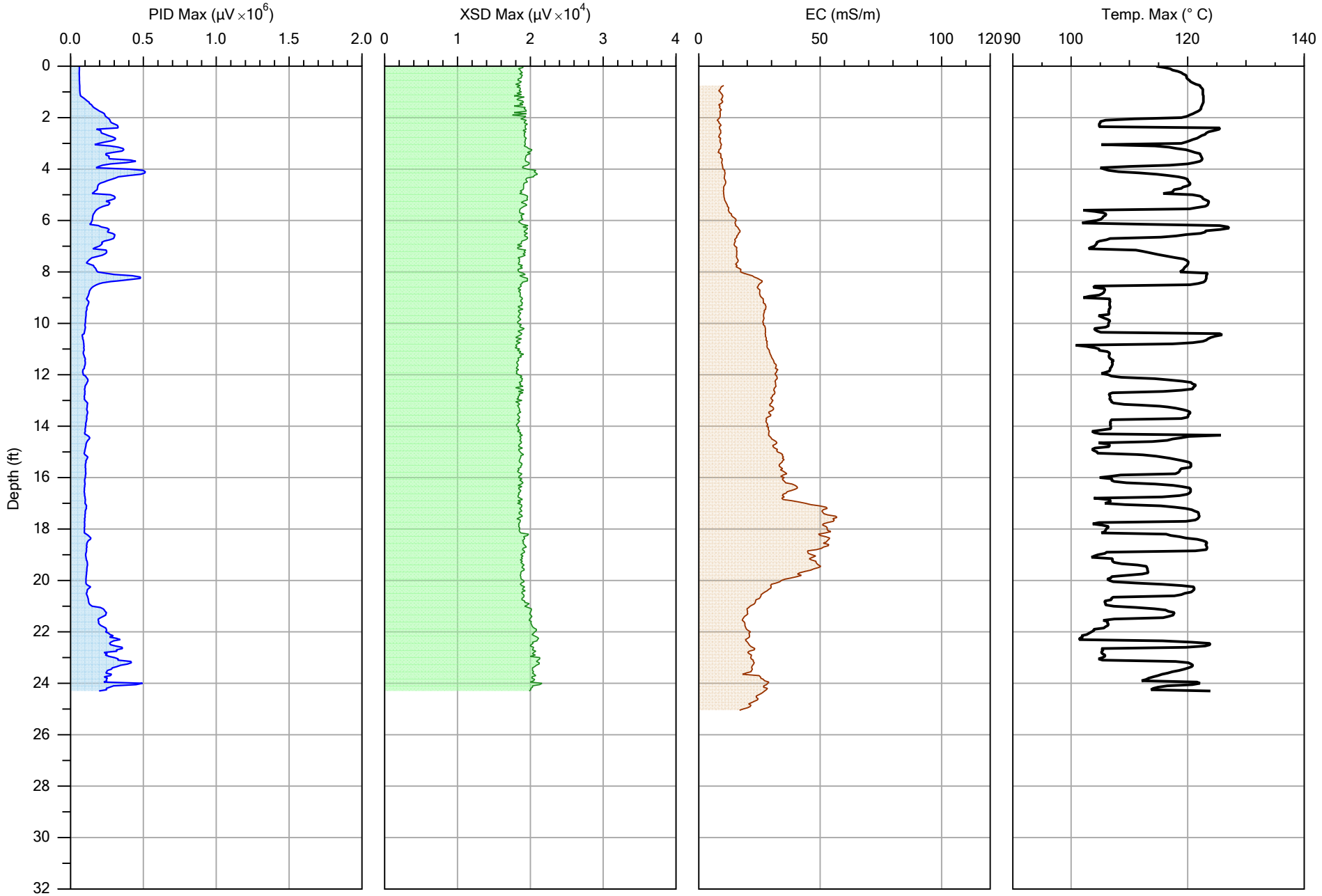
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



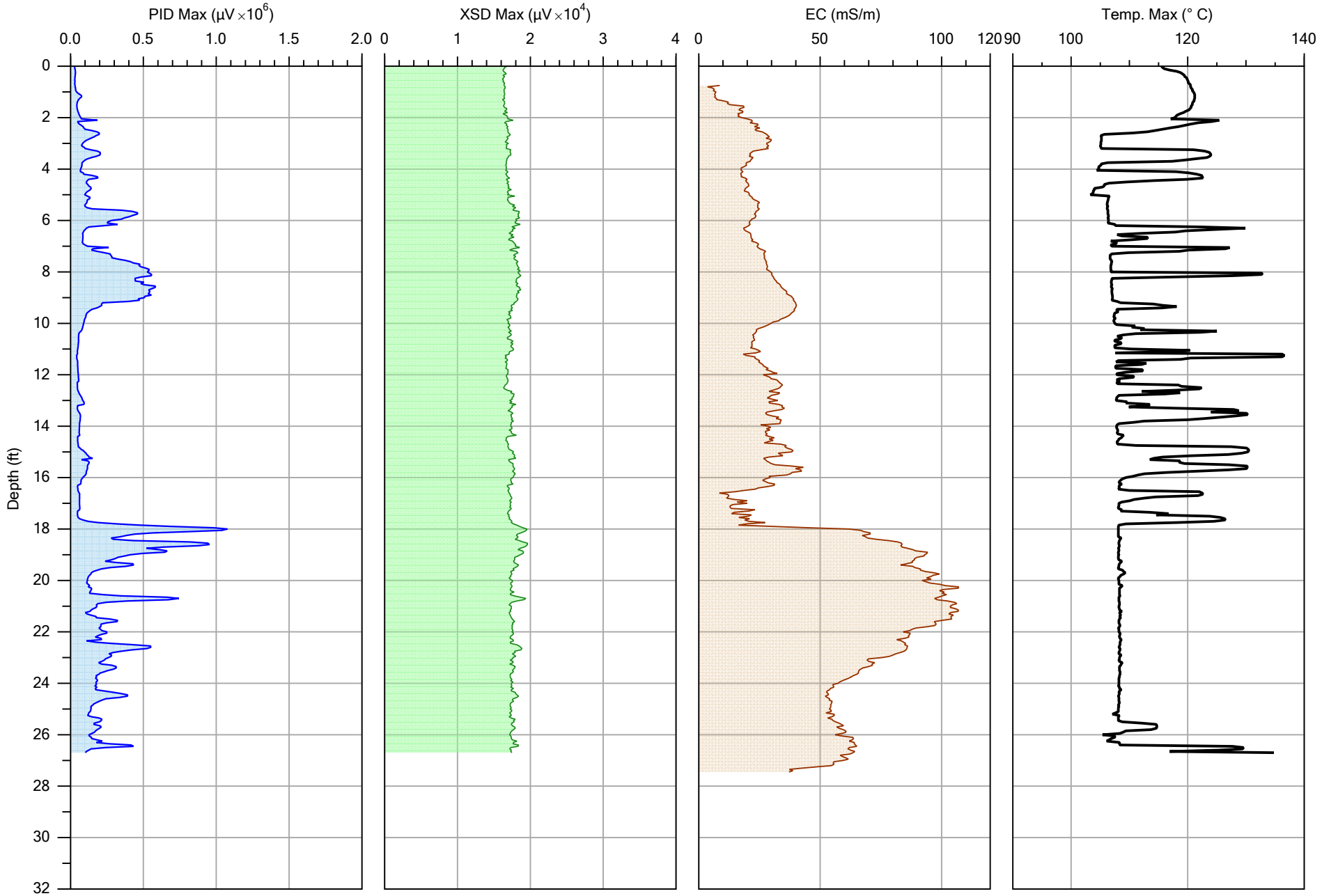
COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M45.MHP
Project ID: Dunn Field, DDMT	Client: Trinity	Date: 3/4/2017
		Location:



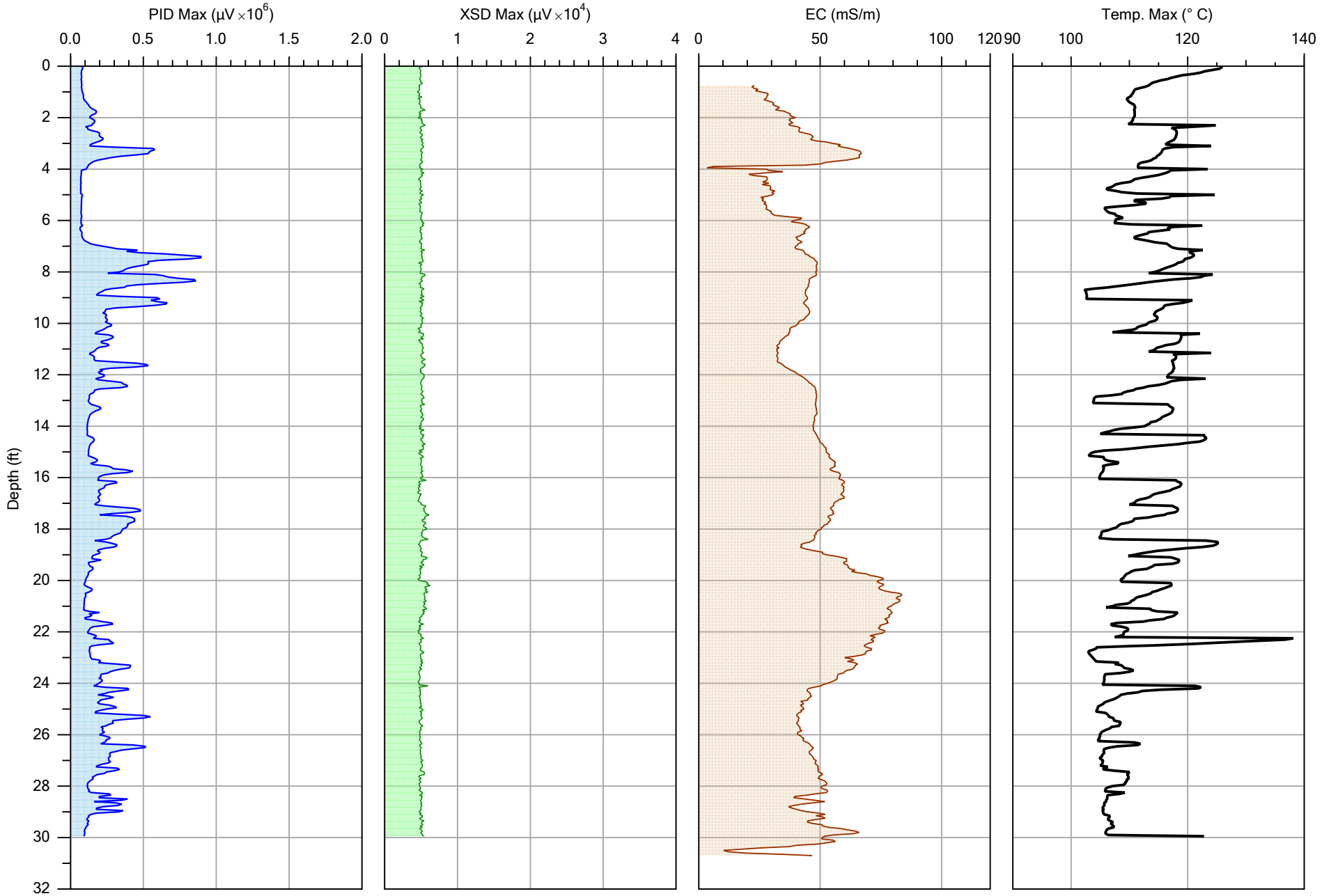
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



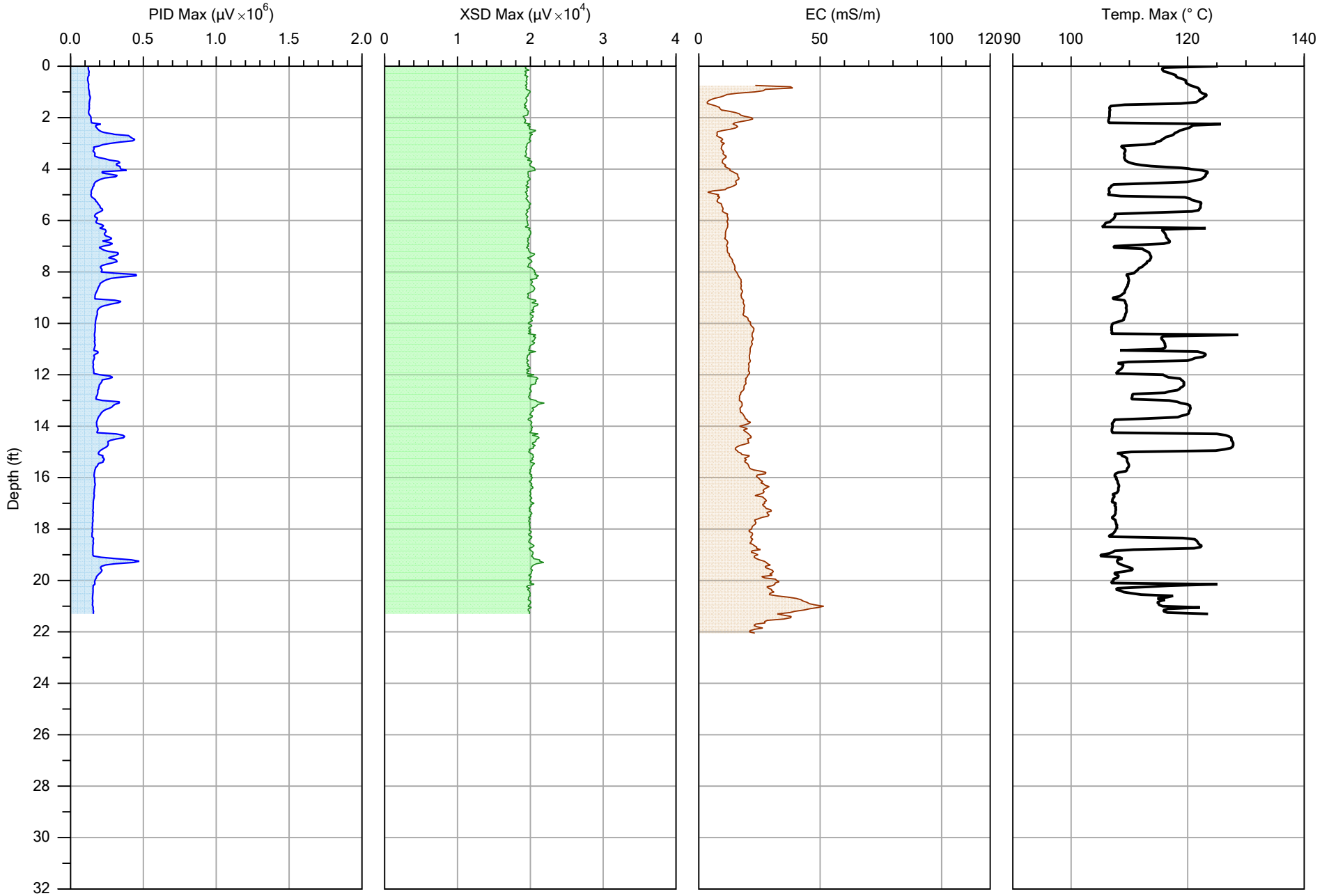
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



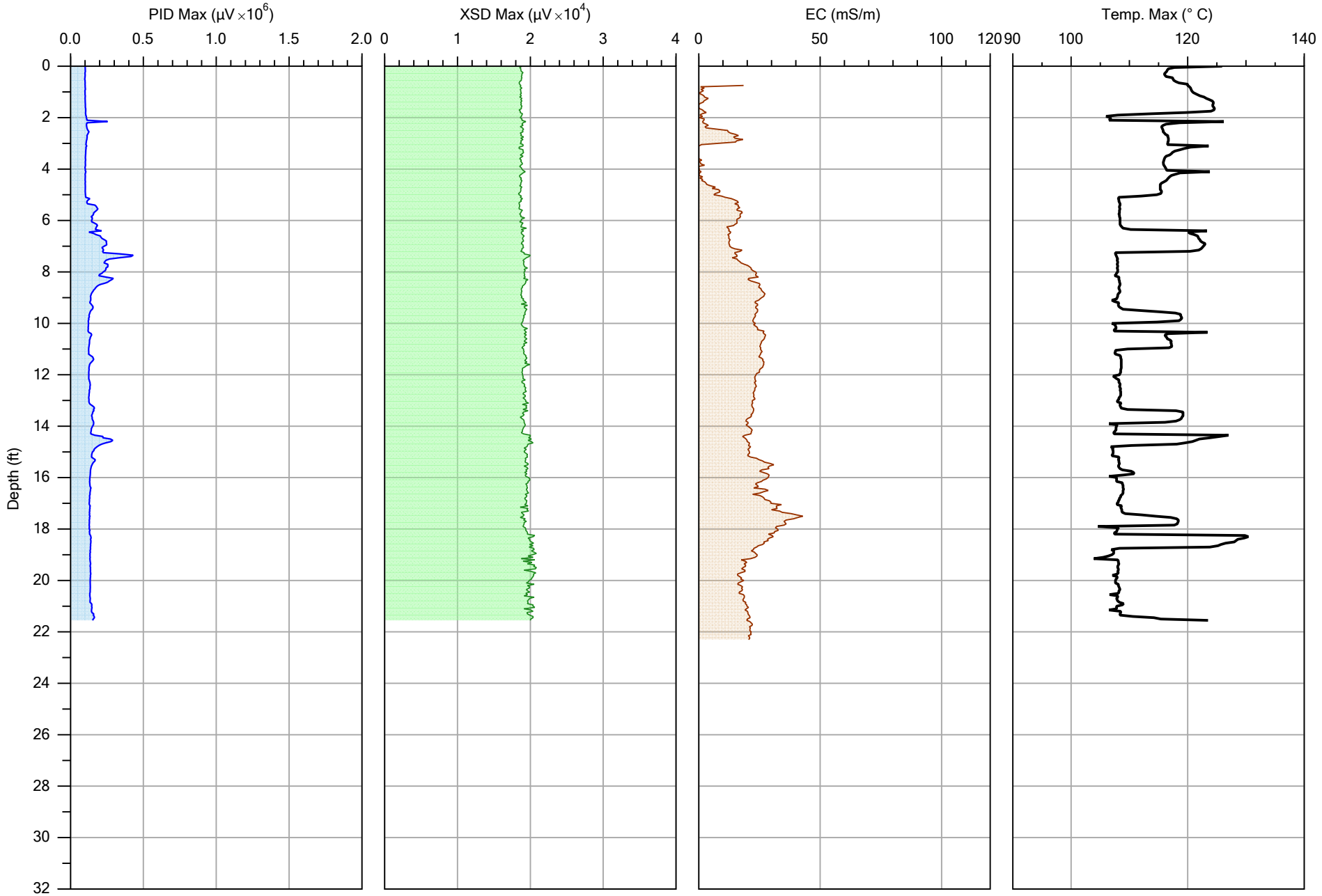
COLUMBIA TECHNOLOGIES

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Company: COLUMBIA Technologies	Operator: JHM	Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



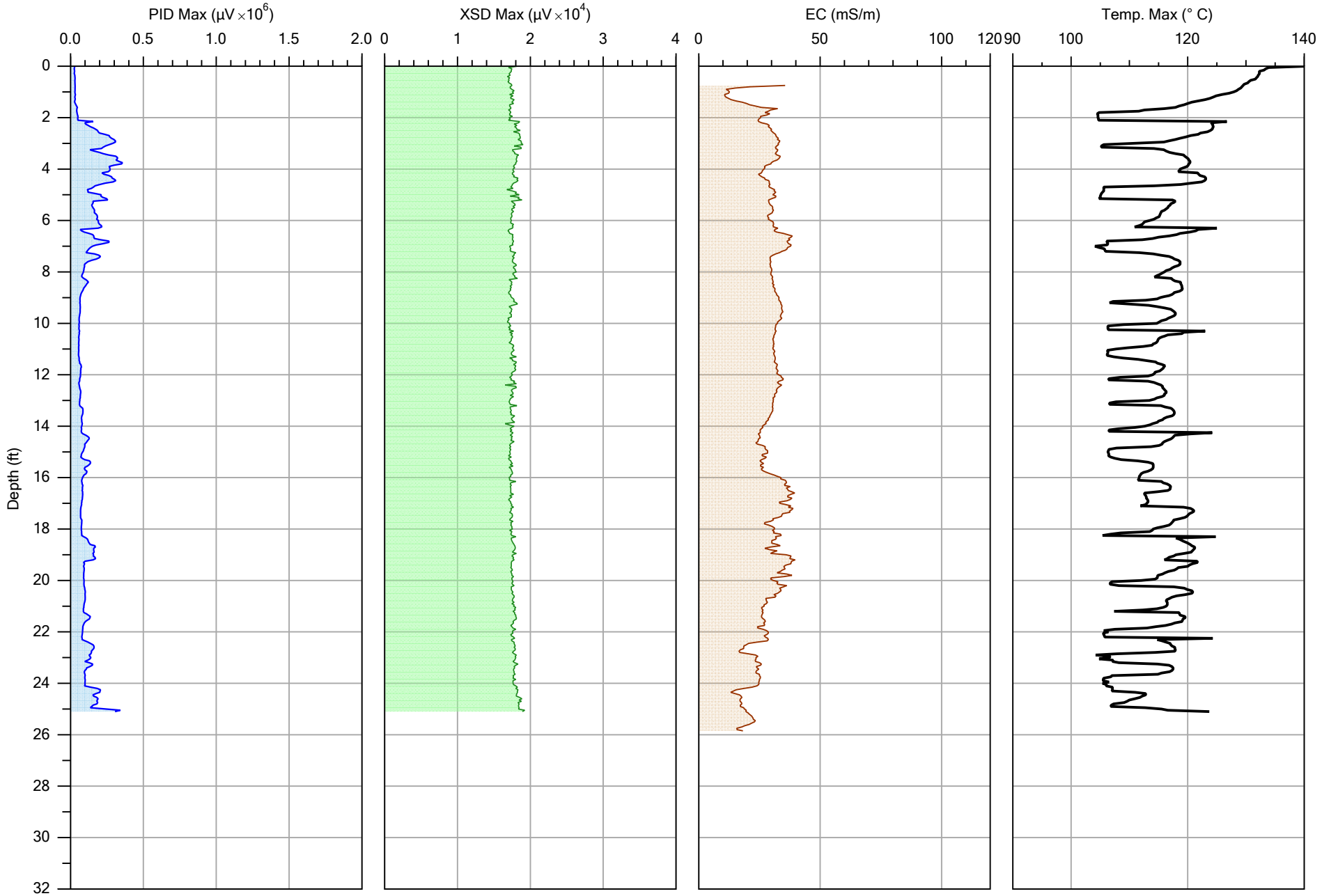
COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M49.MHP
		Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



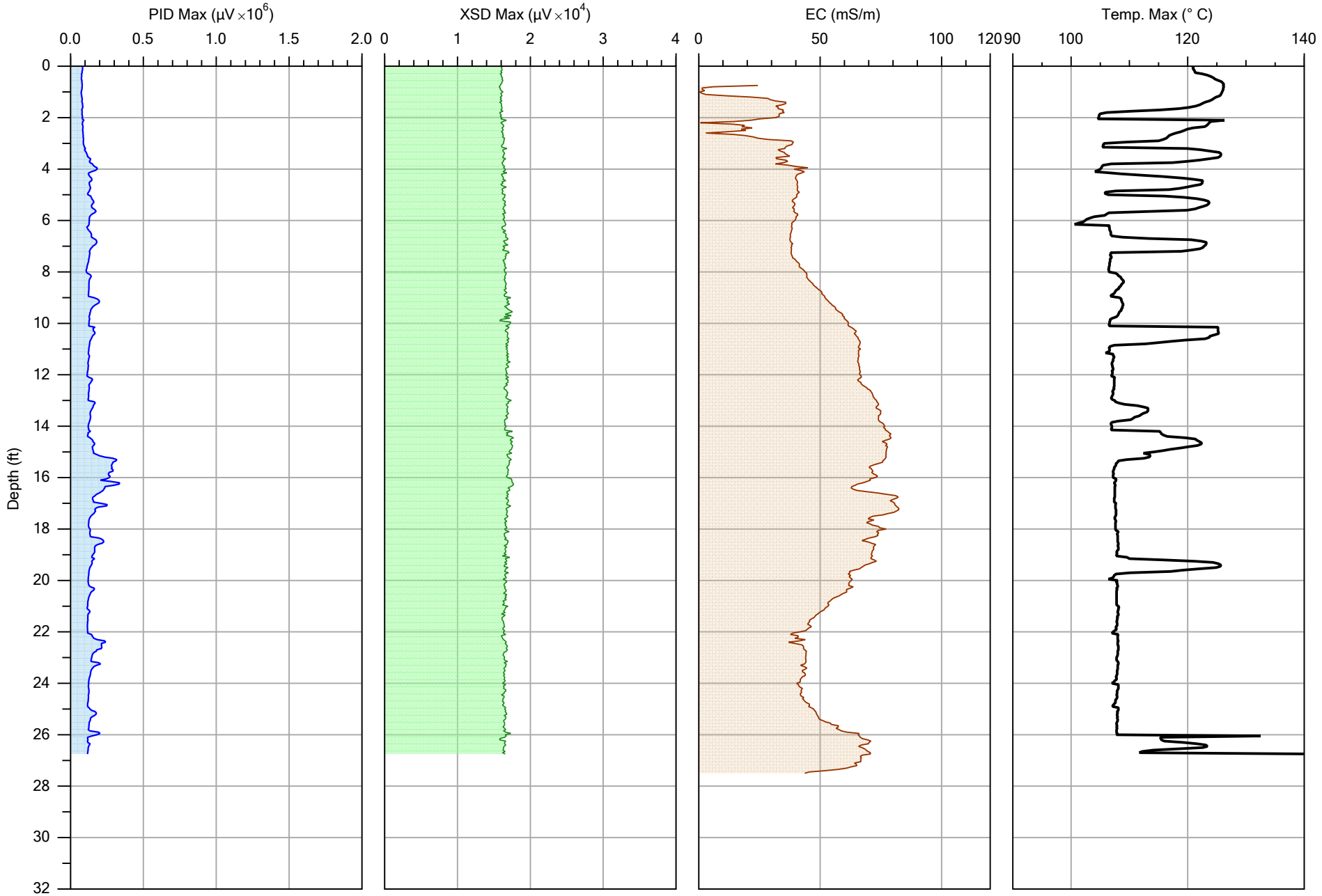
COLUMBIA TECHNOLOGIES

		File: M50.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/4/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



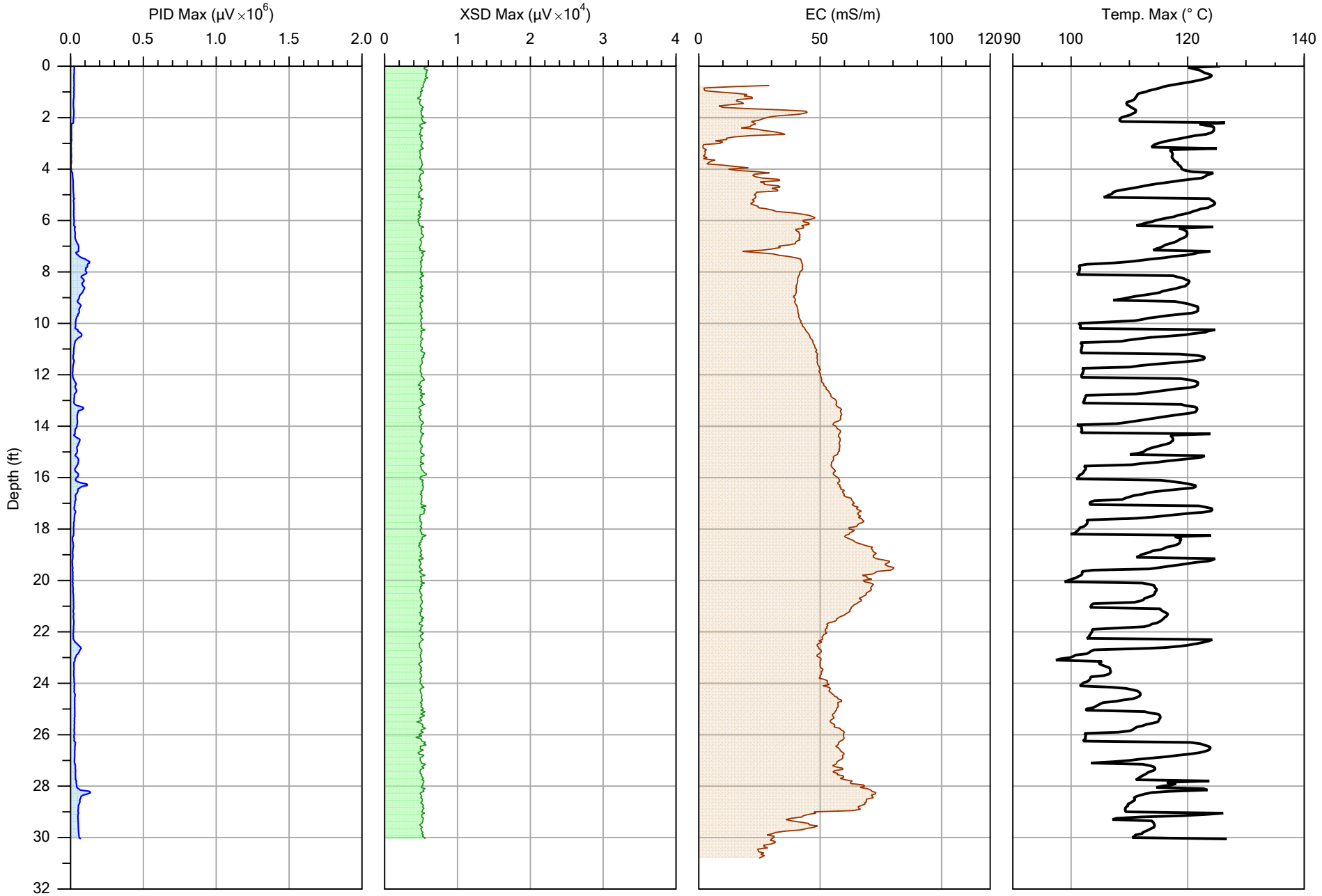
COLUMBIA TECHNOLOGIES

		File: M51.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



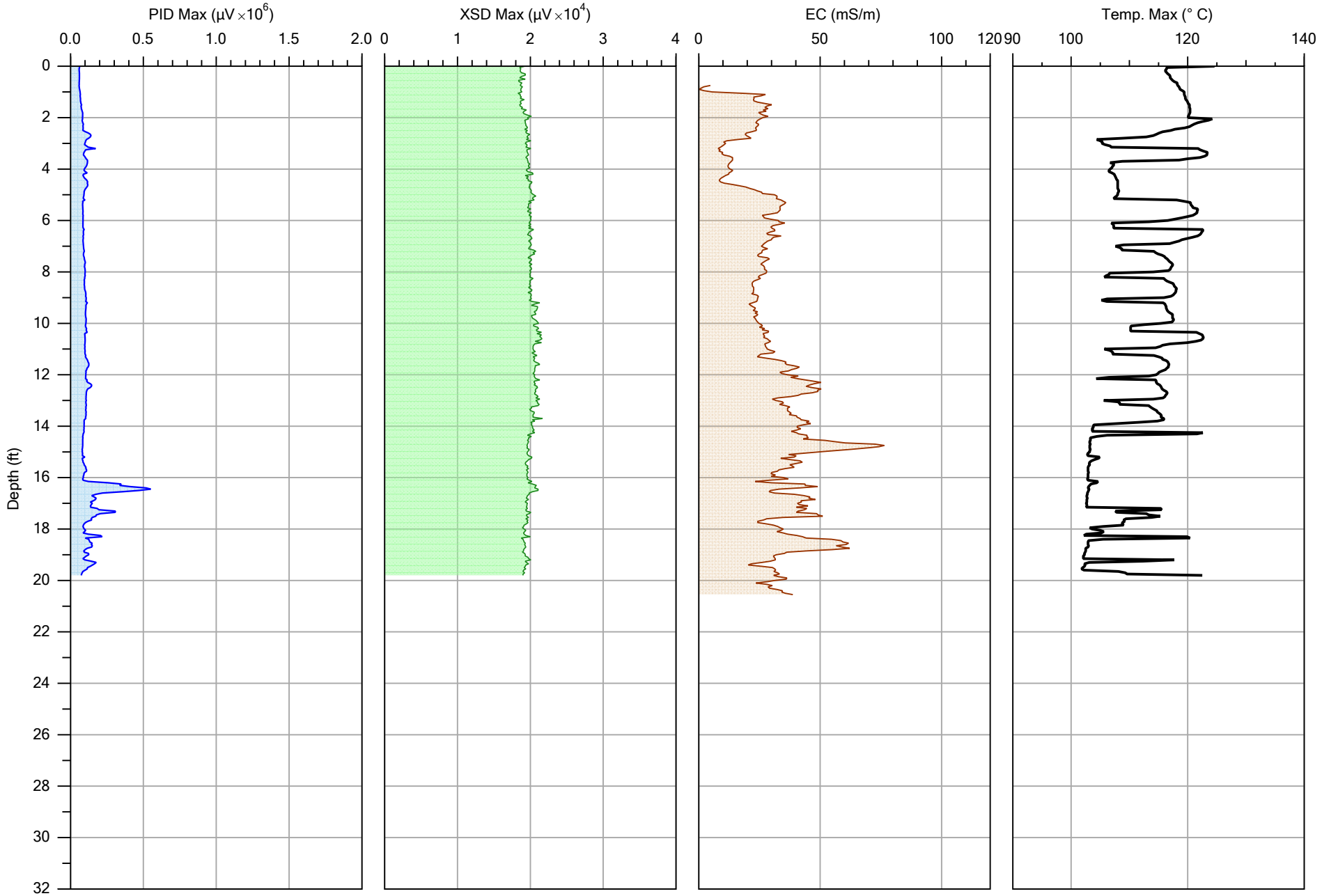
COLUMBIA TECHNOLOGIES

		File: M52.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/3/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



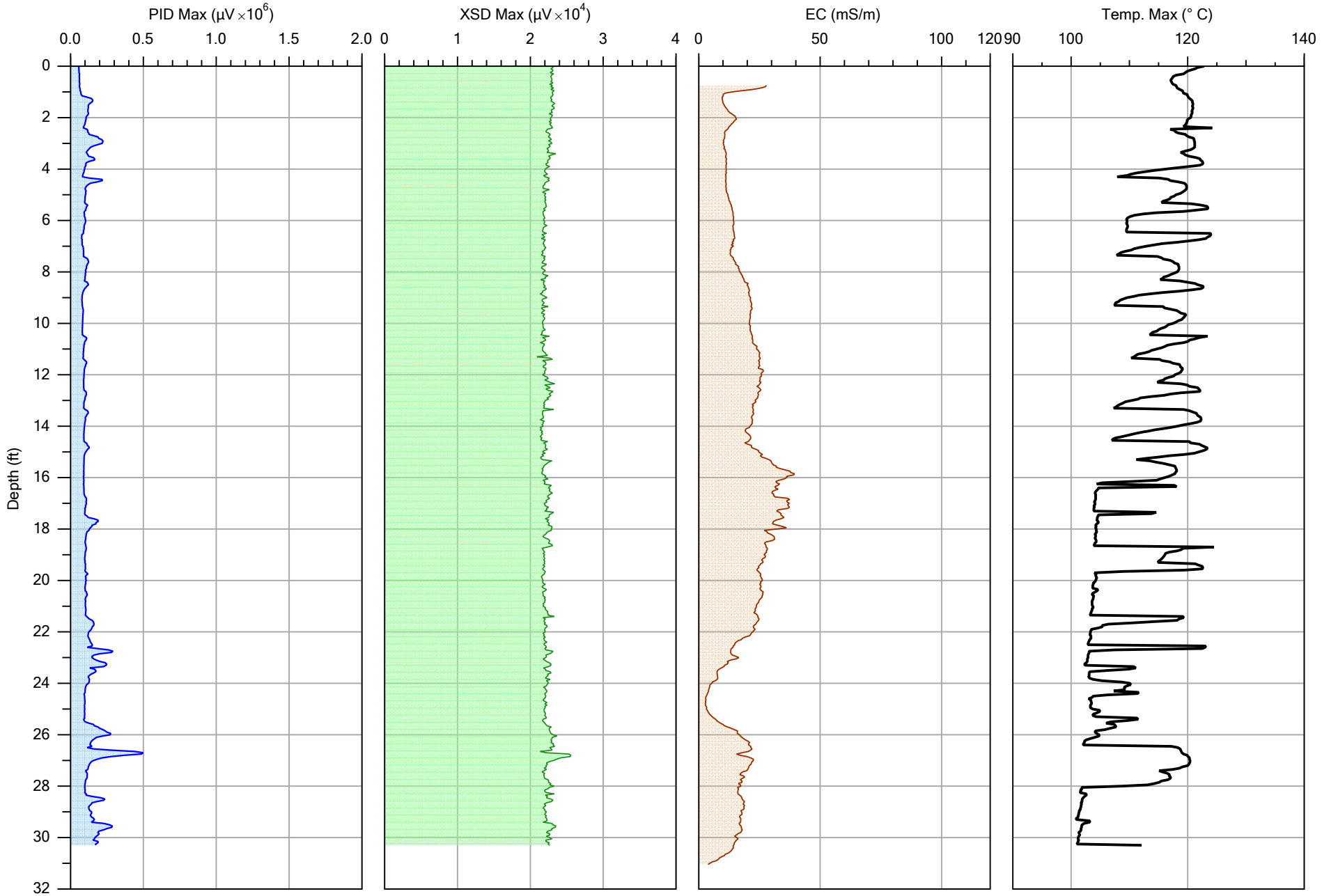
COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M53.MHP
		Date: 3/2/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



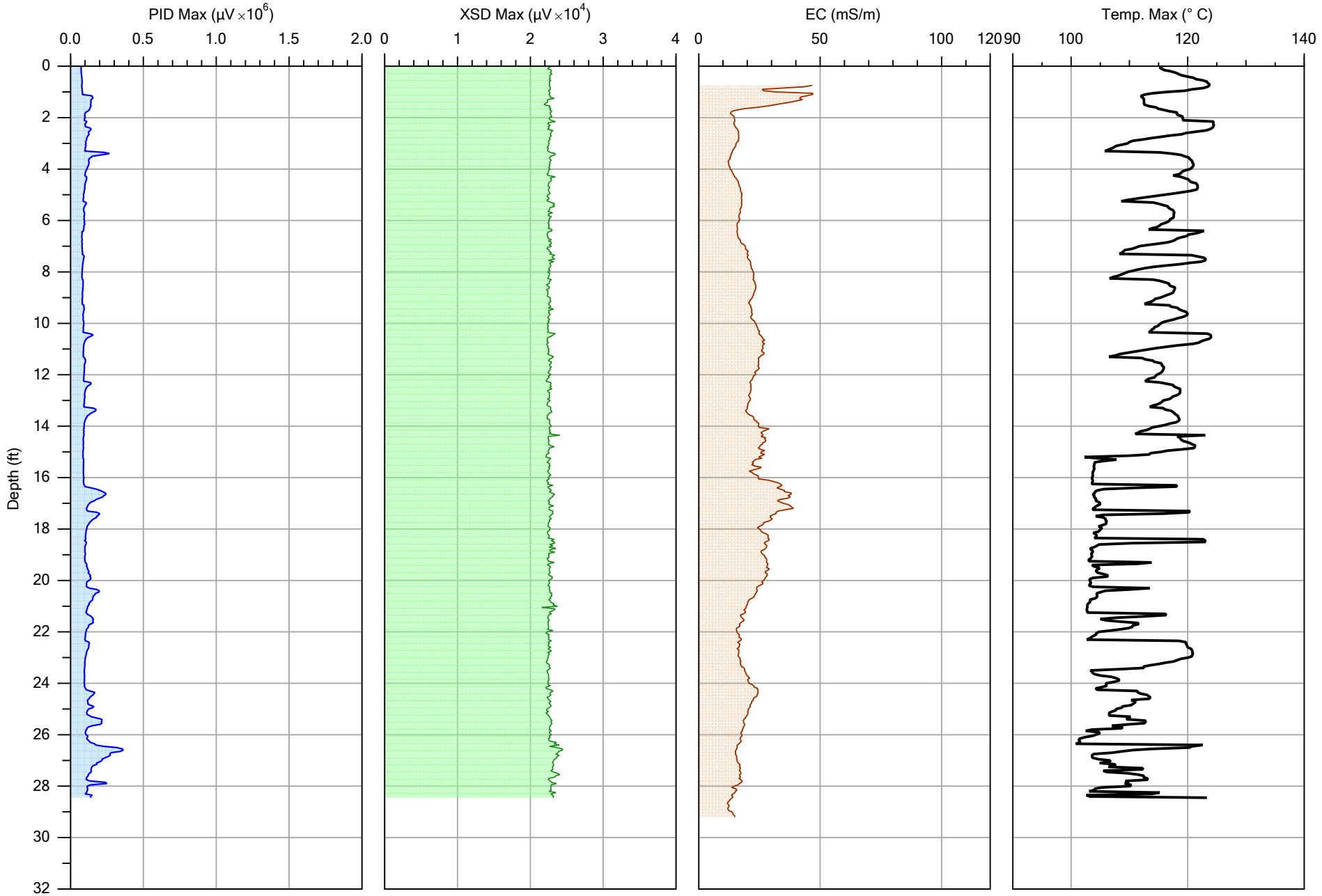
COLUMBIA TECHNOLOGIES

		File: M54.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/5/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



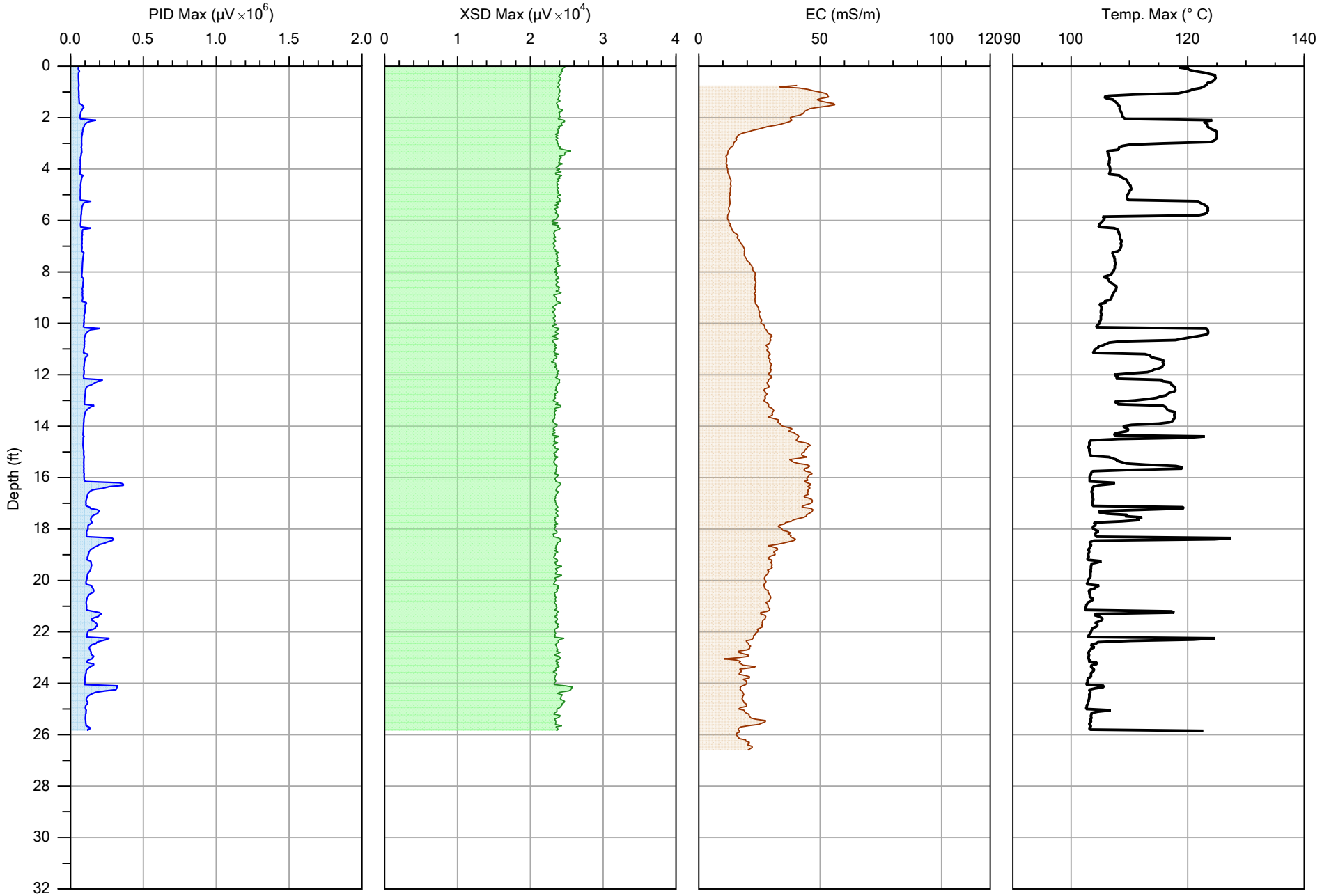
COLUMBIA TECHNOLOGIES

		File: M55.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/7/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



COLUMBIA TECHNOLOGIES

Company: COLUMBIA Technologies	Operator: JHM	File: M56.MHP
		Date: 3/7/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:



COLUMBIA TECHNOLOGIES

		File: M57.MHP
Company: COLUMBIA Technologies	Operator: JHM	Date: 3/7/2017
Project ID: Dunn Field, DDMT	Client: Trinity	Location:

Appendix D Soil Boring Logs

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-01
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling, LLC	SHEET 1 OF SHEETS 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMTT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 1/4" acetate sleeves	8. HOLE LOCATION: 281885.676 x 802929.535	
	9. SURFACE ELEVATION: 273.924	
	10. DATE STARTED: 3/6/17	11. DATE COMPLETED: 3/6/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 14 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO: SB-01

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-01

PROJECT: Dunn Field MIP Investigation

INSPECTOR: [illegible]

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silty Sand (SM), dark grayish-brown (10YR 4/2), fine sand, organics					
		Lean Clay (CL), brown (10YR 4/4), medium plasticity, wet, cohesive				4.0/4.0	Permeable [illegible]
	4.0						
	6.0						
		Lean Clay (CL), gray (10YR 6/1), medium plasticity, wet, cohesive.				4.0/4.0	
	8.0						
	9.0						
		Lean Clay (CL), mottled colors (see above), medium plasticity, wet, cohesive, iron concentrations			DUP-01-[illegible]	4.0/4.0	
	12.0						
						2.0/2.0	
	14.0						

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-01

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

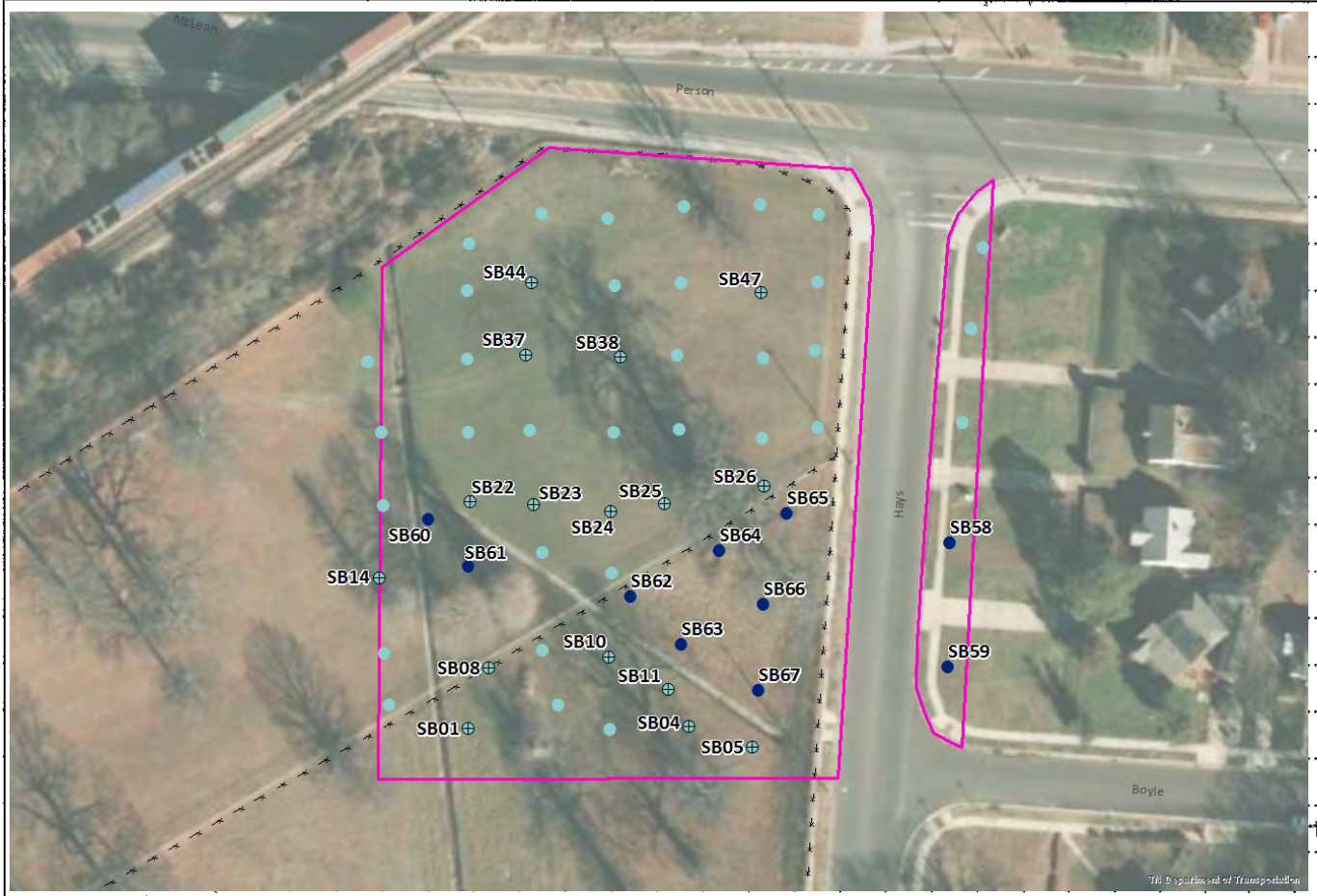
HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-04
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling, LLC	SHEET: 1 OF 2 SHEETS
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMTT Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 1/4" acetate Sleeves	8. HOLE LOCATION: 2818816.992 803043.036	
	9. SURFACE ELEVATION: 276.901 ft	
	10. DATE STARTED: 3/6/17	11. DATE COMPLETED: 3/6/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO: SB-04

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-04

PROJECT: Dunn Field MIP Investigation

INSPECTOR: [illegible]

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silt (ML), very dark grayish-brown (10YR 3/2), abundant roots and organics, moist, trace fine sand					
	4.0	Lean Clay (CL), brown (10YR 4/3), medium plasticity, moist, cohesive				4.0/4.0	
	8.0				DF-SB04-12.0-13.0	4.0/4.0	
	12.0					4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-04

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER SB-05
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCay Drilling, LLC	SHEET 1 OF 2 SHEETS
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMTT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 1/4" acetate sleeves	8. HOLE LOCATION: 281876.102 N 803076.043 E	
	9. SURFACE ELEVATION: 278.511 ft	
	10. DATE STARTED: 3/6/17	11. DATE COMPLETED: 3/6/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 20ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO SB-05

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-05

PROJECT: Dunn Field MIP Investigation

INSPECTOR: Zay K

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silt (ML), very dark grayish-brown (10YR 3/2) abundant roots and organics, moist, trace fine sand					
	4.0	Lean Clay (CL), light brown gray (10YR 6/2), medium plasticity, moist cohesive.				4.0/4.0	
	8.0					4.0/4.0	
	10.0						
	12.0	Lean Clay (CL), mottled colors: gray (10YR 6/1), black (10YR 2/1) in dark yellowish-brown (10YR 4/6), firm and dense.				4.0/4.0	
	16.0					4.0/4.0	
	18.0	Poorly graded sand with Silt (SP-SM) dark yellowish-brown (10YR 4/6) non-plastic, wet, non-cohesive, fine sand			SB-05 Vocs		
	20.0	Lean clay (CL), light brown gray (10YR 6/2), dense, moist, cohesive.				4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-05

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

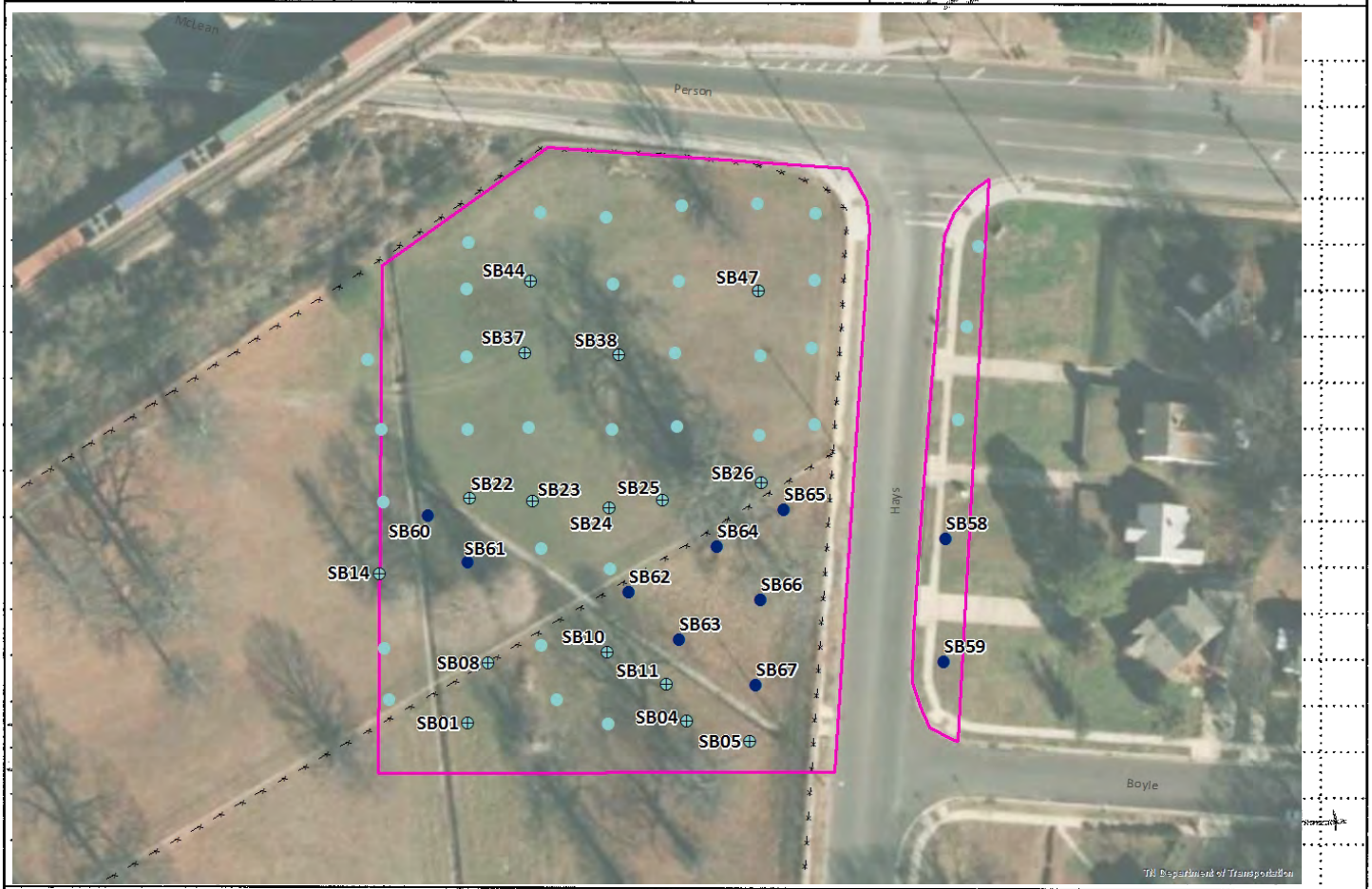
HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-08
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCoy Drilling, LLC	SHEET: 1 OF SHEETS: 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCoy Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1¼" acetate Sleeves	8. HOLE LOCATION: 281916.946 802940.279	
	9. SURFACE ELEVATION: 274.17	
	10. DATE STARTED: 3/6/17	11. DATE COMPLETED: 3/6/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 20ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT: Dunn Field MIP Investigation | HOLE NO: SB-08

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-08

PROJECT: Dunn Field MIP Investigation

INSPECTOR: [illegible]

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silt (ML), very dark grayish-brown (10YR 3/2), abundant roots and organics, moist, trace fine sand					
	4.0	Lean Clay (CL), brown (10YR 4/4), medium plasticity, wet, cohesive				4.0/4.0	perched water
	8.0					4.0/4.0	
	10.0	Lean Clay (CL), brown (10YR 4/4), medium plasticity, moist, cohesive					
	12.0					4.0/4.0	
	16.0	Silty Sand (SM), strong brown (10YR 5/6), non-plastic, moist non-cohesive mostly fine sand, mottled black and red			DF-SB08 17-19.3 VOA-2	4.0/4.0	
	17.0						
	18.0						
	20.0	Silty Sand (SM), Yellow (10YR 7/6 and reddish yellow (5YR 6/6)				4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-08

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-10
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling	SHEET: 1 OF SHEETS: 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 7/8" acetate sleeves	8. HOLE LOCATION: 281922.6668 803001.9273	
	9. SURFACE ELEVATION: 274.912 ft	
	10. DATE STARTED: 3/6/17	11. DATE COMPLETED: 3/6/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT: Dunn Field MIP Investigation	HOLE NO: SB-10

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-10

PROJECT: Dunn Field MIP Investigation

INSPECTOR: Zach

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silt (ML), very dark grayish brown (10YR 3/2), abundant roots and organics, moist, trace fine sand					
	4.0	Lean Clay (CL), brown (10YR 4/3), medium plasticity, wet, cohesive.				4.0/4.0	pre-rinsed interval
	8.0				DF-SB10-09-1703 VOCs	4.0/4.0	
	9.0	Lean Clay (CL), grayish brown (10YR 5/2) mottled colors, medium plasticity, moist, cohesive					
	12.0					4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-10

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-11
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling, LLC	SHEET 1 OF 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 1/4" Geotek Sleeves	8. HOLE LOCATION: 281905.648 803032.801	
	9. SURFACE ELEVATION: 276.379	
	10. DATE STARTED: 3/6/17	11. DATE COMPLETED: 3/6/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12 Ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR



PROJECT: Dunn Field MIP Investigation	HOLE NO: SB-11

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-11

PROJECT: Dunn Field MIP Investigation

INSPECTOR: [illegible]

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silt (ML), very dark grayish-brown (10YR 3/2), abundant roots and organics, moist, trace fine sand					
	4.0	Lean Clay (CL), dark yellowish-brown (10YR 4/4) medium plasticity, moist, cohesive.				4.0/4.0	
	8.0				DF-SB11-10-1703 VOCs	4.0/4.0	
	10.0						
	12.0					4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-11

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-14
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling, LLC	SHEET 1 OF SHEETS 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMTT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 1/4" acetate sleeves	8. HOLE LOCATION: 281963.424 802883.587	
	9. SURFACE ELEVATION: 274.662	
	10. DATE STARTED: 3/6/17	11. DATE COMPLETED: 3/6/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 20 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTRIBUTED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT: Dunn Field MIP Investigation	HOLE NO: SB-14

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-14

PROJECT: Dunn Field MIP Investigation

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silt (ML), very dark grayish-brown (10YR 3/2), abundant roots and organics, moist, trace fine sand.					
	3.0	Well graded sand with silt and gravel (Sa-Sm), gray (10 YR 6/1), moist					
	4.0	Lean clay (CL), brown (10YR 5/3), low plasticity, wet, cohesive.				4.0/4.0	perched water
	8.0					4.0/4.0	
	12.0					4.0/4.0	
	14.0	Lean Clay (CL), brown (10YR 5/3), low plasticity, wet, cohesive, iron concentrations					
	16.0	Poorly graded sand with silt (SP-SM) brown (7.5YR 4/4), moist, sand is mostly fine, some silt				4.0/4.0	
	18.0				DF-SB14-1620		
	20.0	Poorly graded sand with silt (SP-SM) brown (7.5YR 4/4), moist, sand is mostly fine, some silt, trace gravel up to 1/2 inch.				4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-14

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-22
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling, LLC	SHEET: 1 OF SHEETS: 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMTT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1¼" Acetate Sleeves	8. HOLE LOCATION: 282002.176 802930.752	
	9. SURFACE ELEVATION: 274.125	
	10. DATE STARTED: 3/8/17	11. DATE COMPLETED: 3/8/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 20 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT: Dunn Field MIP Investigation	HOLE NO: SB-22

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-22

PROJECT: Dunn Field MIP Investigation

INSPECTOR:

SHEET 2 OF 2

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	0.5	Topsoil Silt (ML), very dark grayish-brown (10YR 3/2) abundant roots and organics, trace fine sand					
	1.0	Lean Clay (CL), brown (10YR 6/3), medium plasticity, moist, cohesive					
	4.0	Lean Clay (CL), brown (10YR 6/3), medium plasticity, wet, cohesive				4.0/4.0	perched water
	7.0						
	8.0	Lean Clay (CL), grey (10YR 5/1), medium plasticity, wet, cohesive.				4.0/4.0	
	11.0						
	12.0	Lean Clay (CL), brown (10YR 6/3), medium plasticity, wet, cohesive				4.0/4.0	
	16.0					4.0/4.0	
	16.0	Well graded sand with silt and gravel (SW-SM), brown (7.5 YR 4/4), moist, non-cohesive, sand is fine to coarse, well graded, mostly fine, trace gravel.			DFSB22 16-17.2 VOCs		
	20.0					4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-22

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER SB-23
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling, LLC	SHEET 1 OF SHEETS 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMTT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 1/4" Geoprobe sleeves	8. HOLE LOCATION: 282001.006 802963.283	
	9. SURFACE ELEVATION: 273.892	
	10. DATE STARTED: 3/8/17	11. DATE COMPLETED: 3/8/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 20ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO
Dunn Field MIP Investigation	SB-23

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-23

PROJECT: Dunn Field MIP Investigation

INSPECTOR: [illegible]

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silt (ML), very dark grayish-brown (10YR 3/2), abundant roots and organics, moist, trace fine sand					
	4.0	Lean Clay (CL), brown (10YR 4/3), medium plasticity, cohesive				4.0/4.0	
	8.0					4.0/4.0	
	12.0					4.0/4.0	
	16.0	Silt (ML), brown (10YR 5/3), moist, low plasticity, cohesive.			DF-SB23-MS-1703 Vol 1	4.0/4.0	much harder/denser than above
	20.0	well graded sand with silt and gravel (SW-SM), brown (7.5YR 4/4), moist, non-cohesive, Sand is fine to coarse, mostly fine, well graded, trace gravel.				4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-23

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-24
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling, LLC	SHEET: 1 OF SHEETS: 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1¼" acetate sleeves	8. HOLE LOCATION: 281997.359 803002.932	
	9. SURFACE ELEVATION: 276.799	
	10. DATE STARTED: 3/8/17	11. DATE COMPLETED: 3/8/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 20 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO
Dunn Field MIP Investigation	SB-24

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-24

PROJECT: Dunn Field MIP Investigation

INSPECTOR: Zey L

SHEET: 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silt (ML), very dark grayish-brown (10YR 3/2), abundant roots and organics, moist, trace fine sand.					
	4.0	Lean clay (CL), grayish-brown (10YR 5/2), medium plasticity, moist, cohesive.				4.0/4.0	
	8.0					4.0/4.0	
	12.0					4.0/4.0	
	14.0						
	16.0	Lean clay (CL) mottled colors - gray (10YR 7/1) to dark yellowish brown (10YR 4/4), medium plasticity, moist, cohesive.				4.0/4.0	Some iron concentrations
	17.0	well graded sand with silt and gravel (SW - SM), brown (7.5YR 4/4), moist, non-cohesive, Sand is fine to coarse, mostly fine, well-graded, trace gravel.			DE-SB24 17-17.3 VOCs		
	20.0					4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-24

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

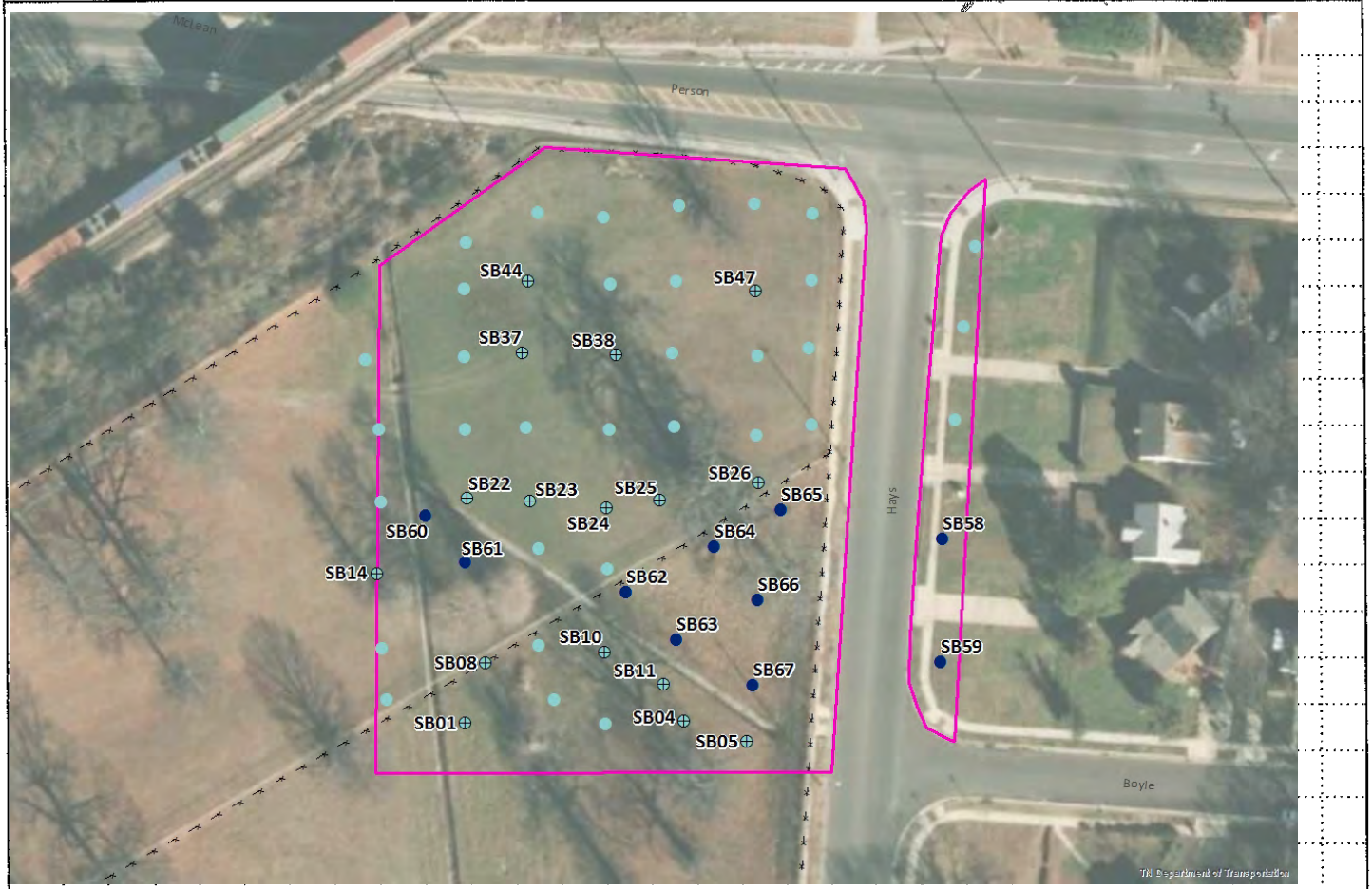
HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-25
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling, LLC	SHEET: 1 OF 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 1/4" acetate sleeves	8. HOLE LOCATION: 282001.424 803030.861	
	9. SURFACE ELEVATION: 279.996	
	10. DATE STARTED: 3/8/17	11. DATE COMPLETED: 3/8/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 5.0	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO
Dunn Field MIP Investigation	SB-25

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-25

PROJECT: Dunn Field MIP Investigation

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silt (mL), very dark grayish-brown (10YR 3/2), abundant roots and organics, moist, trace fine sand					
	4.0	Lean Clay (CL), brown (10YR 5/3), moist, medium plasticity, cohesive.			DF-SB25-05-1203-VOC-S	4.0/4.0	
	4.5	Silt (mL), yellowish-brown (10YR 5/4), low plasticity, dry, cohesive, hard, friable.				1.0/1.0	
	5.0						

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-25

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-26
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling, LLC	SHEET 1 OF 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMTT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1¼" acetate sleeves	8. HOLE LOCATION: 282010.39 803081.9666	
	9. SURFACE ELEVATION: 284.197	
	10. DATE STARTED: 3/2/17	11. DATE COMPLETED: 3/2/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 12.0	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO
Dunn Field MIP Investigation	SB-26

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-26

PROJECT: Dunn Field MIP Investigation

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silt (ML), very dark grayish-brown (10YR 3/2), abundant roots and organics, moist, trace fine sand					
	4.0	Lean Clay (CL), dark yellowish-brown (10YR 4/4), wet, medium plasticity, cohesive				4.0/4.0	perched water
	8.0	Silt (ML), dark yellowish-red (10YR 4/4), low plasticity, dry, cohesive, hard, friable.				4.0/4.0	
	10.0				DF-SB26-10-1103 VOCs		
	12.0	Lean Clay (CL), dark yellowish-brown (10YR 4/4), moist, medium plasticity, cohesive.				4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-26

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

	DISTRICT	HOLE NUMBER SB-37
1. COMPANY NAME Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR McCray Drilling, LLC	SHEET 1 OF 2 SHEETS
3. PROJECT Dunn Field MIP Investigation	4. LOCATION DDMT, Memphis, TN	
5. NAME OF DRILLER Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 1¼" geotech sleeves	8. HOLE LOCATION 282077.831 802959.232	
	9. SURFACE ELEVATION 273.123	
	10. DATE STARTED 3/4/17	11. DATE COMPLETED 3/4/17
12. OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 12.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT Dunn Field MIP Investigation	HOLE NO SB-37

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-37

PROJECT: Dunn Field MIP Investigation

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	0.5	Topsoil with gravel Silt (ML), very dark grayish-brown (10YR 3/2), abundant roots and organics, trace fine sand					old gravel drive
	4.0	Lean clay (CL), grayish brown (10YR 5/2), medium plasticity, moist, cohesive, mottled colors, few iron concentrations				4.0/4.0	
	6.0						
	8.0	Lean Clay (CL), grayish brown (10YR 5/2), medium plasticity, wet, cohesive, mottled colors, few iron concentrations.				4.0/4.0	
	11.0	Lean Clay (CL), grey/brown (10YR 5/2), medium plasticity, moist, cohesive, mottled colors, few iron concentrations.			DF-SB37-11-12MS VOCs		
	12.0					4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-37

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

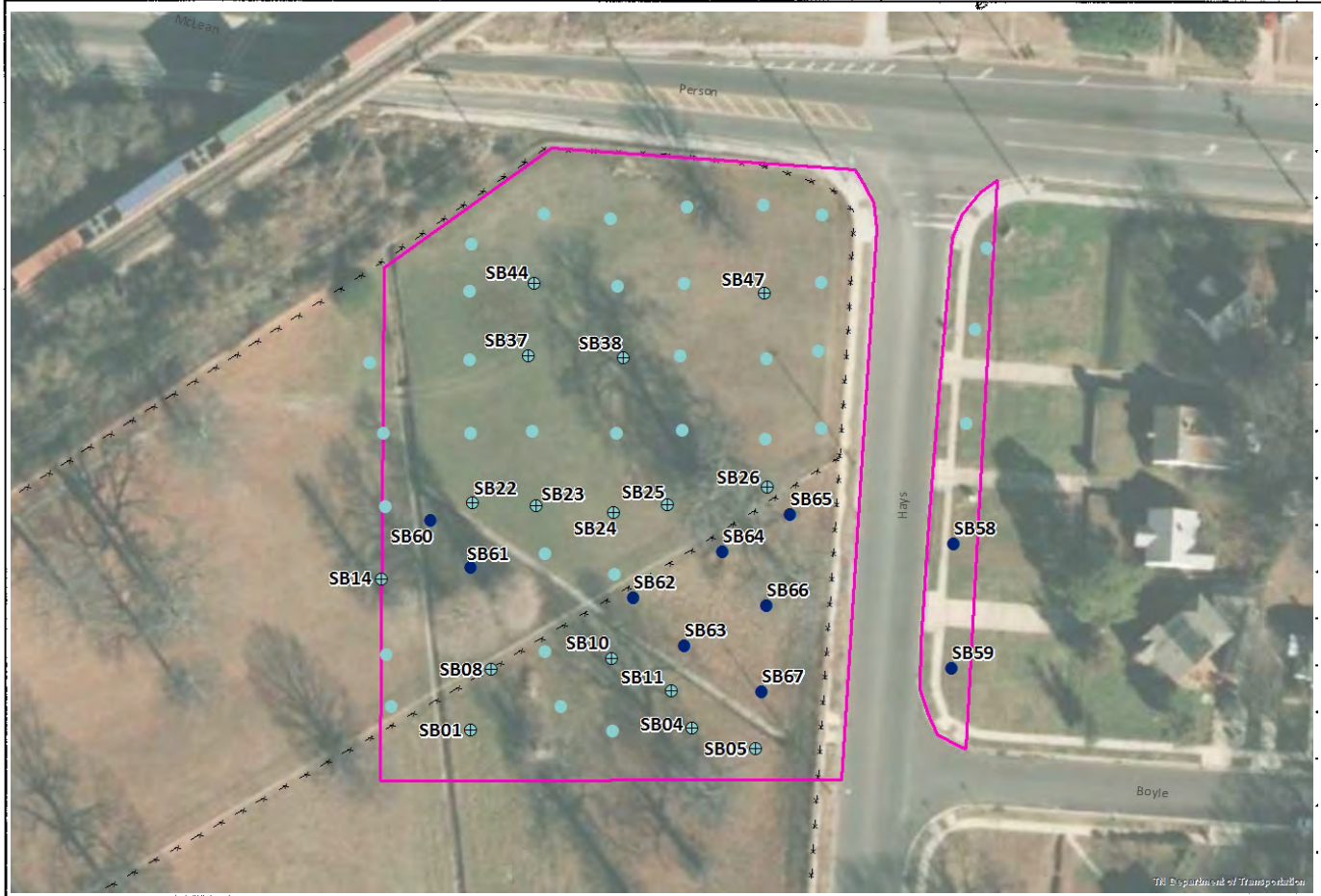
HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-38
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling, LLC	SHEET 1 OF 2 SHEETS
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMTT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1¼" acetate sleeves	8. HOLE LOCATION: 282076.739 803007.972	
	9. SURFACE ELEVATION: 275.957	
	10. DATE STARTED: 3/4/17	11. DATE COMPLETED: 3/4/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA	
14. TOTAL DEPTH OF HOLE: 16	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO
McCray Drilling, LLC	SB-38

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-38

PROJECT: Dunn Field MIP Investigation

INSPECTOR: [illegible]

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Topsoil Silt (ML), very dark grayish-brown (10YR 3/2), abundant roots and organics, moist, trace fine sand					
	4.0	Lean Clay (CL), dark yellowish-brown (10YR 4/4), medium plasticity, wet, cohesive, some silt				4.0/4.0	perched water
	8.0					4.0/4.0	
	12.0					4.0/4.0	
	14.0				DF-SB38 15-17 0830		
	15.0	Lean Clay (CL), dark yellowish-brown (10YR 4/4), medium plasticity, moist, cohesive, some silt					
	16.0	Silt with sand (ML), black (10YR 2/1) to light gray (10YR 7/1), mottled, clay, non-plastic, moist, cohesive.				4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-38

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER SB-44
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling, LLC	SHEET 1 OF SHEETS 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMTT Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 1/4" Acetate Sleeves	8. HOLE LOCATION: 282115.178 802962.43	
	9. SURFACE ELEVATION: 273.272	
	10. DATE STARTED: 3/4/17	11. DATE COMPLETED: 3/4/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE: 12.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: Na

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT: Dunn Field MIP Investigation	HOLE NO: SB-44

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-44

PROJECT: Dunn Field MIP Investigation

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	0.5	Topsoil: Silt (ML), very dark grayish-brown (10YR 3/2), abundant roots and organics, moist, trace fine Sand.					
	3.5	Lean Clay (CL), grayish brown (10YR 5/2), medium plasticity, moist, cohesive					Perched water
	4.0	Lean Clay (CL) brown (10YR 4/3), medium plasticity, wet, cohesive				4.0/4.0	
	8.0					4.0/4.0	
	10.0				DL-SB44 11223 1005		
	11.0	Fat Clay (CH), yellowish-brown (10YR 5/4), high plasticity, moist, cohesive.				4.0/4.0	
	12.0						

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-44

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

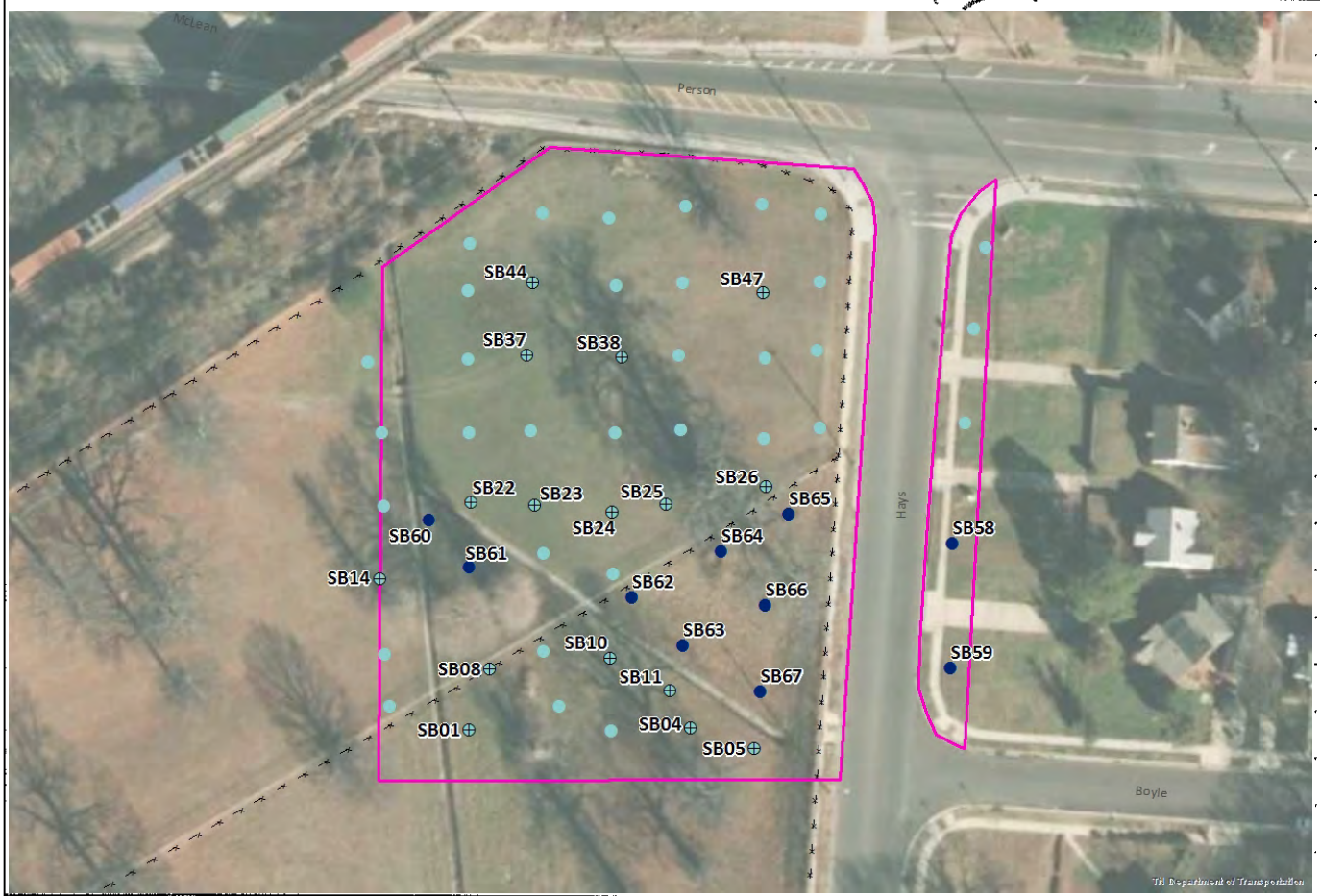
HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-47
1. COMPANY NAME: Trinity Analysis & Development Corp	2. DRILLING CONTRACTOR: McCray Drilling Inc.	SHEET: 1 OF SHEETS: 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMTT, Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - McCray Drilling, LLC	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1¼" Acetate Sleeves	8. HOLE LOCATION: 282110.06 x 803080.55	
	9. SURFACE ELEVATION: 286.122	
	10. DATE STARTED: 3/4/17	11. DATE COMPLETED: 3/4/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE: 20.0	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT: Dunn Field MIP Investigation | HOLE NO: SB-49

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-47

PROJECT: Dunn Field MIP Investigation

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	0.5	Topsoil Silt (ML), very dark grayish-brown (10YR 3/2), abundant roots and organics, moist, trace fine sand.					
	2.0	Silt (ML), dark yellowish brown (10YR 4/2), low plasticity, moist, cohesive, trace fine sand.					
	4.0	Lean Clay (CL), dark yellowish-brown (10YR 4/2), medium plasticity, wet, cohesive, some silt				4.0/4.0	perched water
	6.0						
	8.0	Silt (ML), dark yellowish brown (10YR 4/2), low plasticity, dry, friable, some silt.				4.0/4.0	
	12.0					4.0/4.0	
	16.0				DUP-SB47-16/20231207	4.0/4.0	
	18.5						
	20.0					4.0/4.0	

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-49

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER SB-58
1. COMPANY NAME Trinity Analysis & Development Corp.	2. DRILLING CONTRACTOR McCoy Drilling, LLC	SHEET 1 OF 2 SHEETS
3. PROJECT Dunn Field MIP Investigation	4. LOCATION DDMT Memphis, TN	
5. NAME OF DRILLER Ryan Hicks + Tobby Grey	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 1¼" acetate sleeves	8. HOLE LOCATION 2019681.32 N. x 803177.55 E	
	9. SURFACE ELEVATION UNK	
	10. DATE STARTED 4/17/17	11. DATE COMPLETED 4/17/17
12. OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 24 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
			NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-58

PROJECT: Dunn Field

INSPECTOR: T. Schmucker

SHEET 1 OF 2

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS PID (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	0.5	Silt (ML), very dark grayish brown (10YR 3/2), abundant roots and organics, moist, trace fine sand	0.0				
		Lean Clay (CL), Dark yellowish brown (10 YR 4/4), moist medium plasticity	0.0			4.0 / 4.0	
	4.0						
		Same but wet	0.0			4.0 / 4.0	perched water
	6.0						
		Lean Clay (CL), yellowish brown (10 YR 5/4), medium plasticity, moist, cohesive	0.0				
	8.0						
			0.0		DF-SB58-11-17041 YOC3		
	10.0		0.0			4.0 / 4.0	
	12.0						
			0.0			4.0 / 4.0	
	14.0						
			0.0				
	16.0						
			0.0			4.0 / 4.0	
	18.0						
			0.0				
	20						

PROJECT

HOLE NO SB-58

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB 58

PROJECT

INSPECTOR: T. Schmucker

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	22.0	Silty Sand (SM), Strong brown (7.5YR 5/6), moist, mostly fine, poorly graded	0.0		SB58-22-24	4.0 / 11.0	
	24		0.0				
		TD: 24 Feet					

PROJECT

HOLE NO SB-58

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER SB-59
1. COMPANY NAME Trinity Analysis & Development Corp.	2. DRILLING CONTRACTOR McCrary Drilling, LLC	SHEET 1 OF SHEETS 2
3. PROJECT Dunn Field MIP Investigation	4. LOCATION DDMT Memphis TN	
5. NAME OF DRILLER Ryan Hicks - Tobby Gurney	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 1 1/4" acetate sleeves	8. HOLE LOCATION 281917.50N x 802176.34E	
	9. SURFACE ELEVATION UNK	
	10. DATE STARTED 4/17/17	11. DATE COMPLETED 4/17/17
12. OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 24	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	X					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO SB-59

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-59

PROJECT

INSPECTOR: T. Schmucker

SHEET 1 OF 2

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	0.5	Silt (ML), very dark grayish brown (10YR 3/2) absolute trace of organics, moist, trace fine sand	0.0			4,4 / 4,0	
	4.0	Lean Clay (CL), dark yellowish brown (10YR 4/4), moist medium plasticity.	0.0				
	6.0	same but wet	0.0			4,0 / 4,0	perched water
	8.0	Lean Clay (CL), yellowish brown (10YR 5/4), medium plasticity, moist, cohesive.	0.0				
	10.0		0.0			4,0 / 4,0	
	12		0.0				
	14		0.0		DF-SB59-12-14 Wet	4,0 / 4,0	
	16		0.0		DF-SB59-14-16 Wet		
	18		0.0			4,0 / 4,0	
	20		0.0				

PROJECT

HOLE NO SB-59

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-59

PROJECT

INSPECTOR: T. Schmucker

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		Silty Sand (SM), Strong brown (7.5 YR 5/6), moist, mostly fine, poorly graded.	0.0			4,2 / 4,0	
	24.0		0.0				

PROJECT

HOLE NO SB-59

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-60
1. COMPANY NAME: Trinity Chalyss & Development Corp.	2. DRILLING CONTRACTOR: Melroy Drilling LLC	SHEET 1 OF SHEETS 2
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMT Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks & Tobby Gray	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1¼" acetate sleeves	8. HOLE LOCATION: 28993.38 N x 802905.12 E	
	9. SURFACE ELEVATION: UNK	
	10. DATE STARTED: 4/17/17	11. DATE COMPLETED: 4/17/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE: 20ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
			NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO
	SB-60

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-60

PROJECT

INSPECTOR: T. Schmucker

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Silt (ML) dark grayish brown (10YR 3/2), organics, some sand	1.0				
	2.0	Lean Clay (CL), brown (10YR 4/3), medium plasticity, moist, cohesive	0.0				
	4.0	Same but wet	0.0				perched water
	6.0	Same but gray (10YR 5/1)	0.0				
	8.0		0.0				
	10						
	12	Lean Clay (CL), mottled colors (brown, gray), moist	0.0				
	14		0.0		DF-SB60 12-14 VOA-1		
	16		0.0				
	18		0.0				
	20	Silty Sand (SM), Strong brown (7.5YR 4/6), mostly fine, poorly graded, trace gravel	0.0		DF-SB60 18-20 VOA-1		

PROJECT

HOLE NO: SB-60

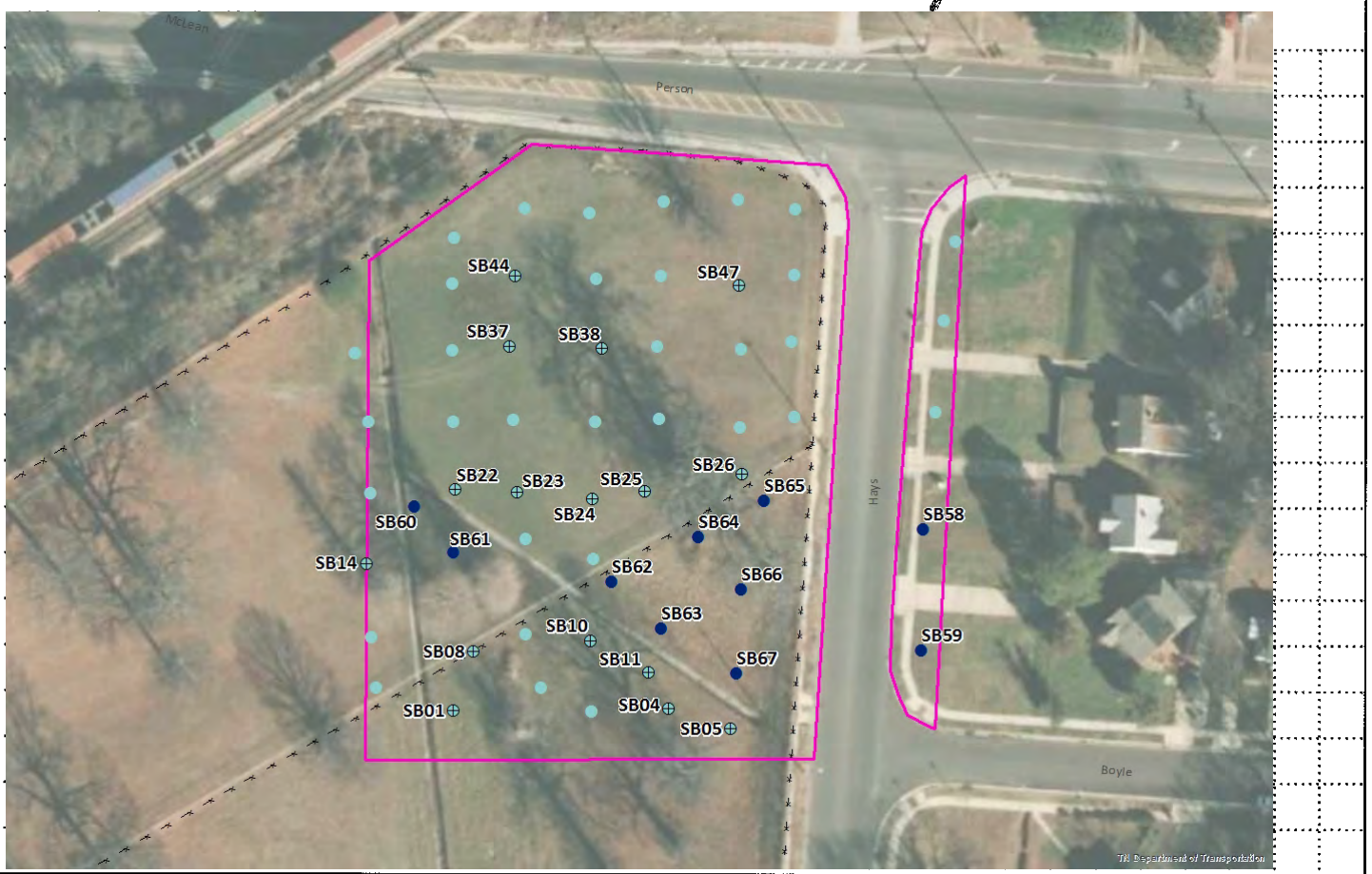
HTRW DRILLING LOG

	DISTRICT	HOLE NUMBER SB-61
1. COMPANY NAME Trinity Engineering & Development Corp	2. DRILLING CONTRACTOR McCray Drilling LLC	SHEET 1 OF 2 SHEETS
3. PROJECT Dunn Field MIP Investigation	4. LOCATION DDMT Memphis, TN	
5. NAME OF DRILLER Ryan Hicks & Tobby Gray	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	8. HOLE LOCATION 281968.99 N x 802929.80 E	
1 1/4" Acetate Sleeve	9. SURFACE ELEVATION UNK	
	10. DATE STARTED 4/17/17	11. DATE COMPLETED 4/17/17
12. OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 20 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18. GEOTECHNICAL SAMPLES	DISTRICT	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
			NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO SB-61

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER SB-61

PROJECT

INSPECTOR Zach

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Silt (SM), dark (10 YR 3/2), organics, fine sand	0.0				
	2.0					4.0 / 4.0	
	4.0	Lean clay (CL) brown (10 YR 4/3), medium plasticity, moist, cohesive	0.0				
	6.0		0.0			4.0 / 4.0	
	8.0		0.0				
	9.0					4.0 / 4.0	
	10	Lean Clay (CL), mottled colors (brown, gray, red), moist, some iron concretions	0.0				
	12		0.0		DF-SB-61 13-17 02 VOA		
	13						
	14		0.0			4.0 / 4.0	
	16		0.0				
	18		0.0			4.0 / 4.0	
	20	Silty Sand (SM) brown (10 YR 4/3), moist, mostly fine, poorly graded, trace gravel	0.0		DF-SB-61 20-17 02 VOC		

PROJECT

HOLE NO SB-61

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER SB-62
1. COMPANY NAME Trinity Analysis & Development Corp.	2. DRILLING CONTRACTOR McCray Drilling LLC.	SHEET 1 OF 2 SHEETS
3. PROJECT Dunn Field MIP Investigation	4. LOCATION DDMT Memphis, TN.	
5. NAME OF DRILLER Ryan Hicks + Tobby Gray	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	8. HOLE LOCATION 281953.69N x 803013.17E	
1¼" x 4' Acetate Sleeves	9. SURFACE ELEVATION UNK	
	10. DATE STARTED 4/18/17	11. DATE COMPLETED 4/18/17
12. OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 16 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
			NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO SB-62

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-62

PROJECT

INSPECTOR

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Silt (ML), very dark grayish brown (10YR 3/2), abundant roots and organics moist, trace, fine sand.	0.0				
	2.0	Lean Clay (CL), dark yellowish brown (10YR 4/4), medium plasticity, moist, cohesive	0.0			4.0/4.0	
	4.0		0.0				
	6.0					4.0/4.0	
	8.0	Same but with iron nodules, some mottled colors.	0.0				
	10		0.8		SB-62-SB-2 10-12' 1021	4.0/4.0	
	12		0.0				
	14		0.0			4.0/4.0	
	16	Silty Sand (SM), Strong brown (7.5YR 4/6), moist, mostly fine, poorly graded, some iron nodules	0.0		SB-62-SB-2 14-16' 1021		

PROJECT

HOLE NO SB-62

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-63
1. COMPANY NAME: Trinity ADC	2. DRILLING CONTRACTOR: McCray Drilling LLC	SHEET: 1 OF 2 SHEETS
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DP mat Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks + Tobby Gray	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 1/4" acetate Sleeves	8. HOLE LOCATION: 281929.03 X 803039.26	
	9. SURFACE ELEVATION: UNK	
	10. DATE STARTED: 4/18/17	11. DATE COMPLETED: 4/18/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE: 16 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
			NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO: SB-63

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER SB-63

PROJECT

INSPECTOR

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	10	Silt (ML) very dark grayish brown (10YR 3/2), abundant roots and organics, moist, trace fine Sand.	0.0			4.0 / 4.0	
		Lean Clay (CL), Dark yellowish brown (10YR 4/4), medium plasticity, moist, cohesive.	0.0				
			0.2		DF-SB63 0'-10' VOCs	11.0 / 21.0	
	20	Same but with iron nodules	0.5				
			0.2			4.0 / 4.0	
			0.0				
			0.0				
	14	Silty Sand (SM), brown (10YR 4/3), moist, mostly fine, poorly graded, some iron nodules	0.0		DF-SB63 14'-20' VOCs	4.0 / 4.0	
	16						

PROJECT

HOLE NO SB-63

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER SB-64
1. COMPANY NAME Trinity ADC	2. DRILLING CONTRACTOR McCray Drilling LLC	SHEET 1 OF 3 SHEETS
3. PROJECT Dunn Field MMP Investigation	4. LOCATION DDMT Memphis, TN	
5. NAME OF DRILLER Ryan Hicks + Tobby Carney	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	8. HOLE LOCATION 2819727.34 N x 803058.92 E	
1 1/4" Macrotek sleeves	9. SURFACE ELEVATION UNK	
	10. DATE STARTED 4/18/17	11. DATE COMPLETED 4/18/17
12. OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 24 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18. GEOTECHNICAL SAMPLES	DISTRICT	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO SB-64

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER SB-64

PROJECT

INSPECTOR

SHEET 2 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Silt (ML), very dark grayish brown (10YR 3/2), abundant roots and organics, moist, trace fine sand.	0.0				
		Silt (ML), Dark yellowish Brown (10YR 4/4), medium plasticity moist, cohesive	0.0			4.0/4.0	
	6.0		0.0			4.0/4.0	
		Silt (ML) Brownish yellow (10YR 6/6), dry	0.0				
	9.0						
		Lean Clay (CL), Brown (10YR 4/3), medium plasticity, moist, cohesive	0.0			4.0/4.0	
			0.0		SB-64 (12-14) 1004		
			0.0			4.0/4.0	
	16.0		0.0				
		Lean Clay, mottled colors (White, brown, gray, black) Medium plasticity, moist cohesive, trace fine sand	0.0		SB-64 (18-20) 1005	4.0/4.0	
	20		0.0				

PROJECT

HOLE NO SB-64

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-64

PROJECT

INSPECTOR

SHEET 3 OF 3 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
		Same as previous but with Prevalent iron Concretions.	0.0			4,2 4,0	
	24		0.0				

PROJECT

HOLE NO SB-64

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-65
1. COMPANY NAME: Trinity ADC	2. DRILLING CONTRACTOR: McCraw Drilling LLC	SHEET: 1 OF 2
3. PROJECT: Dunn Field RMP Investigation	4. LOCATION: DDMT Memphis, TN	
5. NAME OF DRILLER: Ryan Hicks - Tobby Gray	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1¼" acetate sleeves	8. HOLE LOCATION: 281996.32N x 803093.68 E	
	9. SURFACE ELEVATION: UNK	
	10. DATE STARTED: 4/18/17	11. DATE COMPLETED: 4/18/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE: 20 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-65

PROJECT

INSPECTOR

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Silt (ML), very dark grayish brown (10YR 3/2), abundant roots and organics, moist, trace fine sand.	0.0				
	2.0	Lean Clay (CL), Dark yellowish brown (10 YR 3/4), medium plasticity, wet, cohesive	0.0			4.0/4.0	perched water
	4.0				DF-SB65 05-1704 VOCs		
	5.0		0.0				
	6.0	Same but moist				4.0/4.0	
	8.0		0.0				
	10		0.0			4.0/4.0	
	12		0.0				
	14		0.0			4.0/4.0	
	15						
	16	Lean Clay (CL), mottled colors, medium plasticity, moist, cohesive, trace fine sand	0.0				
	18		0.0		DF-SB65 19-1704 VOCs	4.0/4.0	
	20	Same, but with iron concretions	0.0				

PROJECT

HOLE NO 58-65

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

	DISTRICT	HOLE NUMBER SB-66
1. COMPANY NAME Trinity ADC	2. DRILLING CONTRACTOR McCray Drilling LLC	SHEET 1 OF 1 SHEETS
3. PROJECT Dunn Field MIP Investigation	4. LOCATION DDMT Memphis TN	
5. NAME OF DRILLER Ryan Hicks + Tobby Gray	6. MANUFACTURER'S DESIGNATION OF DRILL Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	8. HOLE LOCATION 281949.69 N x 803081.21 E	
1 1/4" acetate sleeves	9. SURFACE ELEVATION UNK	
	10. DATE STARTED 4/18/17	11. DATE COMPLETED 4/18/17
12. OVERBURDEN THICKNESS NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE 20ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
			NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT	HOLE NO SB-66

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-6C

PROJECT

INSPECTOR: T. Schmucker

SHEET ___ SHEETS OF

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.5	Silt (ML), very dark grayish brown (10YR 3/2), abundant roots and organics, moist, trace fine sand	0.0				
	2.0	Silt (ML), Yellowish Brown (10YR 5/6), dry				4.0 / 4.0	
	4.0		0.0				
	6.0		0.0			4.0 / 4.0	
	8.0		0.0				
	10		0.0			4.0 / 4.0	
	12		0.0		DP-SB6C-12-12.5 1330		
	14	Lean Clay (CL), brownish yellow (10YR 6/6), medium plasticity, dry	0.0			4.0 / 4.0	
	16		0.0				
	18		0.0		DP-SB6C-18-19.5 1334	4.0 / 4.0	
	20	Silty Sand (SM), Strong Brown (7.5YR 5/6), dry, mostly fine, poorly graded	0.0				

PROJECT

HOLE NO: SB-6C

HTRW DRILLING LOG

DISTRICT		HOLE NUMBER: SB-67
1. COMPANY NAME: Trinity ADC	2. DRILLING CONTRACTOR: McCray Drilling LLC	SHEET: 1 OF 1 SHEETS
3. PROJECT: Dunn Field MIP Investigation	4. LOCATION: DDMT Memphis TN	
5. NAME OF DRILLER: Ryan Hicks + Tobby Gray	6. MANUFACTURER'S DESIGNATION OF DRILL: Geoprobe 7822 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 1/4" acetate sleeves	8. HOLE LOCATION: 781905.51 N x 803079.03 E	
	9. SURFACE ELEVATION: UNK	
	10. DATE STARTED: 4/18/17	11. DATE COMPLETED: 4/18/17
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	
14. TOTAL DEPTH OF HOLE: 20ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	✓					

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Bentonite			



PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-67

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG (CONTINUATION SHEET)

HOLE NUMBER: SB-67

PROJECT: Dunn Field MIP Investigation

INSPECTOR: J. Schumacher

SHEET 2 OF 2 SHEETS

ELEV. (a)	DEPTH (b)	DESCRIPTION OF MATERIALS (c)	FIELD SCREENING RESULTS ppm (d)	GEOTECH SAMPLE OR CORE BOX NO. (e)	ANALYTICAL SAMPLE NO. (f)	BLOW COUNT (g)	REMARKS (h)
	1.0	Silt (ML), very dark greyish brown (10YR 3/2), roots, moist, trace fine sand	0.0			Pen/Rec	
	3.0	Silt (ML), dark yellowish brown (10YR 4/4), compact, moist	0.9			4.0/4.0	Collected DF-SB67-3-1704 and Dup-2 from 3 Feet bls for VOCs
	4.0	Silt (ML) brownish yellow (10YR 6/6), compact, moist	0.6			4.0/4.0	
	8.0		0.7				
	12.0	Silt (ML) brownish yellow (10YR 6/6), compact, dry with fine sand	6.0			4.0/4.0	Collected DF-SB67-10-1704 for VOCs from 10 Feet bls ~~duke~~
			0.0				
	16.0	Lean clay (CL), brown (10YR 4/3), medium plasticity, moist, with iron nodules and organics	0.0			4.0/4.0	
			0.0				
			0.0			4.0/4.0	
		Sand (silt) (SM), strong brown (7.5YR 5/6) dry with iron and organics	0.0				

PROJECT: Dunn Field MIP Investigation

HOLE NO: SB-67

ENG FORM 5056A-R, AUG 94

(Proponent: CECW-EG)

Appendix E Analytical Laboratory Reports (electronic copy only)

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ANALYTICAL RESULTS FOR:

TODD CALHOUN
TRINITY ANALYSIS & DEVELOPMENT
1002 N. EGLIN PARKWAY
SHALIMAR, FL 32579

PROJECT SITE:	Dunn Field – Defense Depot Memphis, TN
DOD CONTRACT #:	W9128F-11-D-0029, TO CK01
PROJECT #:	
SDG:	125865
PREPARED:	March 28, 2017

TOTAL # OF PAGES IN THIS DOCUMENT: 473

The data contained in the following report have been reviewed by the appropriate CT Laboratories' LLC 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.

APPROVED BY: Brett Szymanski
PROJECT MANAGER

Certifications: IL (NELAP 200073), KS (NELAP E-10368), WI (157066030), DOD ELAP (A2LA 3806.01), VA (NELAP 4602038), MD (WI 00061), LA (NELAP ACC20160002), ISO17025 (A2LA 3806.01), GA EDP Stipulation (Accreditor: LA NELAP, ACC#: ACC20160002, Scope: Non-potable water solid and chemical materials, biological tissue, Effective: 12/10/2014, Expires: annually)

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Case Narrative

Client: Trinity Analysis & Development
Project: Dunn Field – Defense Depot Memphis, TN
Sample Receipt Date: 03/10/2017
SDG #: 125865

Seventeen soil samples, two rinse blanks, and two trip blanks were received and analyzed for VOCs. The assigned sample ID number, 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. A breakdown of sample receipt information can be found on the Sample Condition Report located in the last section of the data package and any exceptions are noted below. The analyses were performed following DOD QSM 5.

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 Organic Analysis:

The samples were analyzed using US EPA SW-846 Method 8260C (VOC). 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.

Compounds that may not meet the recommended minimum average response factor (ARF) criteria for 8260C (such as several of the ketones) are analyzed at concentrations 2 to 50 times higher than normal to make up for their lack of response. However, the ARF on the response factor (RF) forms do not reflect this change in concentration. These compounds may be "flagged" on RF forms as a result.

VOC, Low Level (8260C) Soil Analysis

Initial Calibration Verification (ICV2) on calibration curve LS031317 had a low recovery for methylene chloride and a high recovery for vinyl acetate. These compounds were not detected at a concentration greater than the level of ICV1 so the data were not qualified. Iodomethane and toluene were detected in the Initial Calibration Blank (ICB).

Analytical Run # 135664

The Matrix Spike (MS) and/or the Matrix Spike Duplicate (MSD) for sample # 840394 had high recoveries for multiple compounds and low recoveries for styrene, vinyl acetate, and methylene chloride. These compounds were qualified with an "M" flag on the parent sample. The MS and MSD exceeded Relative Percent Difference (RPD) limits for styrene and vinyl acetate. These compounds were qualified with a "Y" flag on the parent sample.

Sample #'s 840394, 840395, 840396, 840399, 840400, 840401, 840402, 840403, 840404, 840405, 840406, 840407, 840408, 840409, 840410, and 840413 had suspected acetone laboratory background contamination.

VOC, Low Level (8260C) Water Analysis

Chloromethane was detected in the ICB on calibration curve LW031517.

Analytical Run # 135661

Chloromethane was detected in the Method Blank (MB). All detections of this compound in the associated samples were qualified with a "B" flag.

The Laboratory Control Sample Duplicate (LCSD) exceeded RPD limits for 1,2,3-trichloropropane and iodomethane. These compounds were qualified with a "Y" flag on all associated samples.

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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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www.ctlaboratories.com

Sample Delivery Group

125865

TRINITY ANALYSIS & DEVELOPMENT
TODD CALHOUN
1002 N EGLIN PARKWAY
SHALIMAR, FL 32579

Project Name: DDM DUNN FIELD
Project #:

	CT Sample #	Folder #	Client Sample #	Sample Description	Matrix	Date Sampled	Date Received
1	840394	125865		DF-SB47-18-1703	SOIL	03/08/2017	03/10/2017
2	840395	125865		DF-SB38-15-1703	SOIL	03/08/2017	03/10/2017
3	840396	125865		DF-SB44-11-1703	SOIL	03/08/2017	03/10/2017
4	840397	125865		DF-SB37-11-1703	SOIL	03/08/2017	03/10/2017
5	840398	125865		RB-01	GROUND WATER	03/08/2017	03/10/2017
6	840399	125865		DF-SB22-19-1703	SOIL	03/09/2017	03/10/2017
7	840400	125865		DF-SB23-16-1703	SOIL	03/09/2017	03/10/2017
8	840401	125865		DF-SB24-17-1703	SOIL	03/09/2017	03/10/2017
9	840402	125865		DF-SB25-5-1703	SOIL	03/09/2017	03/10/2017
10	840403	125865		DF-SB26-10-1703	SOIL	03/09/2017	03/10/2017
11	840404	125865		DF-SB14-19-1703	SOIL	03/09/2017	03/10/2017
12	840405	125865		DF-SB01-12-1703	SOIL	03/09/2017	03/10/2017
13	840406	125865		DF-SB08-17-1703	SOIL	03/09/2017	03/10/2017
14	840407	125865		DF-SB10-9-1703	SOIL	03/09/2017	03/10/2017
15	840408	125865		DF-FD-01	SOIL	03/09/2017	03/10/2017
16	840409	125865		DF-SB11-10-1703	SOIL	03/09/2017	03/10/2017
17	840410	125865		DF-SB04-10-1703	SOIL	03/09/2017	03/10/2017
18	840413	125865		DF-SB05-18-1703	SOIL	03/09/2017	03/10/2017
19	840414	125865		TB-01	TRIP BLANK	03/08/2017	03/10/2017
20	840415	125865		TB-02	TRIP BLANK	03/09/2017	03/10/2017
21	840416	125865		RB-02	GROUND WATER	03/09/2017	03/10/2017

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QC Batch Cross Reference Summary

TRINITY ANALYSIS & DEVELOPMENT
TODD CALHOUN
1002 N EGLIN PARKWAY
SHALIMAR, FL 32579

Project Name: DDM DUNN FIELD
Project #:
Report Date: 03/28/2017
Date Received: 03/10/2017
SDG #: 125865

Inorganic Parameters

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
840394	Solids, Percent	EPA 8000C	SOIL		135652
840395	Solids, Percent	EPA 8000C	SOIL		135652
840396	Solids, Percent	EPA 8000C	SOIL		135652
840397	Solids, Percent	EPA 8000C	SOIL		135652
840399	Solids, Percent	EPA 8000C	SOIL		135652
840400	Solids, Percent	EPA 8000C	SOIL		135652
840401	Solids, Percent	EPA 8000C	SOIL		135652
840402	Solids, Percent	EPA 8000C	SOIL		135652
840403	Solids, Percent	SM 2540G	SOIL		135652
840404	Solids, Percent	EPA 8000C	SOIL		135652
840405	Solids, Percent	EPA 8000C	SOIL		135652
840406	Solids, Percent	EPA 8000C	SOIL		135652
840407	Solids, Percent	EPA 8000C	SOIL		135652
840408	Solids, Percent	EPA 8000C	SOIL		135652
840409	Solids, Percent	EPA 8000C	SOIL		135652
840410	Solids, Percent	EPA 8000C	SOIL		135652
840413	Solids, Percent	EPA 8000C	SOIL		135652

Organic Parameters

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
840394	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840395	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840396	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664

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Project Name: DDM DUNN FIELD
Project #:
SDG #: 125865

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
840397	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840398	VOC 8260 QSM Low Level 5.0	EPA 8260C	GROUND WATER		135661
840399	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840400	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840401	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840402	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840403	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840404	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840405	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840406	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840407	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840408	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840409	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840410	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840413	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	61516	135664
840414	VOC 8260 QSM Low Level 5.0	EPA 8260C	TRIP BLANK		135661
840415	VOC 8260 QSM Low Level 5.0	EPA 8260C	TRIP BLANK		135661
840416	VOC 8260 QSM Low Level 5.0	EPA 8260C	GROUND WATER		135661

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL SUMMARY
DOCUMENTS

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1A

VOLATILE ORGANICS ANALYSIS

Sample Description

DF-FD-01

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.61 (g/mL)	CTL Sample ID:	840408
% Solids:	89.4	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 18:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.85	U	0.25	0.85	1.7	1.7
71-55-6	1,1,1-Trichloroethane	0.85	U	0.25	0.85	1.7	1.7
79-34-5	1,1,2,2-Tetrachloroethane	0.85	U	0.42	0.85	1.7	1.7
79-00-5	1,1,2-Trichloroethane	0.85	U	0.34	0.85	1.7	1.7
75-34-3	1,1-Dichloroethane	0.85	U	0.34	0.85	1.7	1.7
75-35-4	1,1-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
563-58-6	1,1-Dichloropropene	0.85	U	0.34	0.85	1.7	1.7
87-61-6	1,2,3-Trichlorobenzene	1.7	U	0.76	1.7	3.4	3.4
96-18-4	1,2,3-Trichloropropane	0.85	U	0.42	0.85	1.7	1.7
120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.76	1.7	3.4	3.4
95-63-6	1,2,4-Trimethylbenzene	1.7	U	0.68	1.7	3.4	3.4
96-12-8	1,2-Dibromo-3-chloropropane	1.7	U	1.1	1.7	3.4	3.4
106-93-4	1,2-Dibromoethane	0.85	U	0.34	0.85	1.7	1.7
95-50-1	1,2-Dichlorobenzene	1.7	U	0.76	1.7	3.4	3.4
107-06-2	1,2-Dichloroethane	0.85	U	0.42	0.85	1.7	1.7
78-87-5	1,2-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
108-67-8	1,3,5-Trimethylbenzene	1.7	U	0.76	1.7	3.4	3.4
541-73-1	1,3-Dichlorobenzene	1.7	U	0.76	1.7	3.4	3.4
142-28-9	1,3-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	0.76	1.7	3.4	3.4
544-10-5	1-Chlorohexane	0.85	U	0.51	0.85	1.7	1.7
594-20-7	2,2-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
78-93-3	2-Butanone	17	U	8.5	17	34	34
95-49-8	2-Chlorotoluene	1.7	U	0.85	1.7	3.4	3.4

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1A

VOLATILE ORGANICS ANALYSIS

Sample Description

DF-FD-01

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.61 (g/mL)	CTL Sample ID:	840408
% Solids:	89.4	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 18:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	17	U	9.3	17	34	34
106-43-4	4-Chlorotoluene	1.7	U	0.76	1.7	3.4	3.4
108-10-1	4-Methyl-2-pentanone	17	U	8.5	17	34	34
67-64-1	Acetone	15.3	J	8.5	17	34	34
71-43-2	Benzene	0.85	U	0.25	0.85	1.7	1.7
108-86-1	Bromobenzene	0.85	U	0.42	0.85	1.7	1.7
74-97-5	Bromochloromethane	0.85	U	0.34	0.85	1.7	1.7
75-27-4	Bromodichloromethane	0.85	U	0.34	0.85	1.7	1.7
75-25-2	Bromoform	0.85	U	0.34	0.85	1.7	1.7
74-83-9	Bromomethane	1.7	U	0.59	1.7	3.4	3.4
75-15-0	Carbon disulfide	1.7	U	0.76	1.7	3.4	3.4
56-23-5	Carbon tetrachloride	0.85	U	0.25	0.85	1.7	1.7
108-90-7	Chlorobenzene	0.85	U	0.34	0.85	1.7	1.7
75-00-3	Chloroethane	0.85	U	0.42	0.85	1.7	1.7
67-66-3	Chloroform	0.85	U	0.34	0.85	1.7	1.7
74-87-3	Chloromethane	0.85	U	0.34	0.85	1.7	1.7
156-59-2	cis-1,2-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
10061-01-5	cis-1,3-Dichloropropene	0.85	U	0.25	0.85	1.7	1.7
124-48-1	Dibromochloromethane	0.85	U	0.34	0.85	1.7	1.7
74-95-3	Dibromomethane	0.85	U	0.34	0.85	1.7	1.7
75-71-8	Dichlorodifluoromethane	1.7	U	0.85	1.7	3.4	3.4
100-41-4	Ethylbenzene	0.85	U	0.34	0.85	1.7	1.7
76-13-1	Freon 113	1.7	U	0.85	1.7	3.4	3.4
87-68-3	Hexachlorobutadiene	1.7	U	0.85	1.7	3.4	3.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-FD-01

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.61 (g/mL)	CTL Sample ID:	840408
% Solids:	89.4	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 18:59	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.7	U	0.25	1.7	3.4	3.4
98-82-8	Isopropylbenzene	0.85	U	0.25	0.85	1.7	1.7
179601-23-1	m & p-Xylene	1.7	U	0.59	1.7	3.4	3.4
1634-04-4	Methyl tert-butyl ether	0.85	U	0.34	0.85	1.7	1.7
75-09-2	Methylene chloride	1.7	U	1.4	1.7	3.4	3.4
91-20-3	Naphthalene	1.7	U	0.85	1.7	3.4	3.4
104-51-8	n-Butylbenzene	1.7	U	0.76	1.7	3.4	3.4
103-65-1	n-Propylbenzene	1.7	U	0.76	1.7	3.4	3.4
95-47-6	o-Xylene	0.85	U	0.34	0.85	1.7	1.7
99-87-6	p-Isopropyltoluene	1.7	U	0.85	1.7	3.4	3.4
135-98-8	sec-Butylbenzene	1.7	U	0.76	1.7	3.4	3.4
100-42-5	Styrene	0.85	U	0.25	0.85	1.7	1.7
98-06-6	tert-Butylbenzene	1.7	U	0.76	1.7	3.4	3.4
127-18-4	Tetrachloroethene	0.85	U	0.34	0.85	1.7	1.7
108-88-3	Toluene	0.85	U	0.34	0.85	1.7	1.7
156-60-5	trans-1,2-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
10061-02-6	trans-1,3-Dichloropropene	0.85	U	0.34	0.85	1.7	1.7
79-01-6	Trichloroethene	0.85	U	0.25	0.85	1.7	1.7
75-69-4	Trichlorofluoromethane	0.85	U	0.42	0.85	1.7	1.7
108-05-4	Vinyl acetate	17	U	10	17	34	34
75-01-4	Vinyl chloride	0.85	U	0.42	0.85	1.7	1.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB01-12-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	8.11 (g/mL)	CTL Sample ID:	840405
% Solids:	82.6	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 17:33	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.75	U	0.22	0.75	1.5	1.5
71-55-6	1,1,1-Trichloroethane	0.75	U	0.22	0.75	1.5	1.5
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U	0.37	0.75	1.5	1.5
79-00-5	1,1,2-Trichloroethane	0.75	U	0.30	0.75	1.5	1.5
75-34-3	1,1-Dichloroethane	0.75	U	0.30	0.75	1.5	1.5
75-35-4	1,1-Dichloroethene	0.75	U	0.30	0.75	1.5	1.5
563-58-6	1,1-Dichloropropene	0.75	U	0.30	0.75	1.5	1.5
87-61-6	1,2,3-Trichlorobenzene	1.5	U	0.67	1.5	3.0	3.0
96-18-4	1,2,3-Trichloropropane	0.75	U	0.37	0.75	1.5	1.5
120-82-1	1,2,4-Trichlorobenzene	1.5	U	0.67	1.5	3.0	3.0
95-63-6	1,2,4-Trimethylbenzene	1.5	U	0.60	1.5	3.0	3.0
96-12-8	1,2-Dibromo-3-chloropropane	1.5	U	0.97	1.5	3.0	3.0
106-93-4	1,2-Dibromoethane	0.75	U	0.30	0.75	1.5	1.5
95-50-1	1,2-Dichlorobenzene	1.5	U	0.67	1.5	3.0	3.0
107-06-2	1,2-Dichloroethane	0.75	U	0.37	0.75	1.5	1.5
78-87-5	1,2-Dichloropropane	0.75	U	0.30	0.75	1.5	1.5
108-67-8	1,3,5-Trimethylbenzene	1.5	U	0.67	1.5	3.0	3.0
541-73-1	1,3-Dichlorobenzene	1.5	U	0.67	1.5	3.0	3.0
142-28-9	1,3-Dichloropropane	0.75	U	0.30	0.75	1.5	1.5
106-46-7	1,4-Dichlorobenzene	1.5	U	0.67	1.5	3.0	3.0
544-10-5	1-Chlorohexane	0.75	U	0.45	0.75	1.5	1.5
594-20-7	2,2-Dichloropropane	0.75	U	0.30	0.75	1.5	1.5
78-93-3	2-Butanone	15	U	7.5	15	30	30
95-49-8	2-Chlorotoluene	1.5	U	0.75	1.5	3.0	3.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB01-12-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	8.11 (g/mL)	CTL Sample ID:	840405
% Solids:	82.6	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 17:33	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	15	U	8.2	15	30	30
106-43-4	4-Chlorotoluene	1.5	U	0.67	1.5	3.0	3.0
108-10-1	4-Methyl-2-pentanone	15	U	7.5	15	30	30
67-64-1	Acetone	26.0	J	7.5	15	30	30
71-43-2	Benzene	0.75	U	0.22	0.75	1.5	1.5
108-86-1	Bromobenzene	0.75	U	0.37	0.75	1.5	1.5
74-97-5	Bromochloromethane	0.75	U	0.30	0.75	1.5	1.5
75-27-4	Bromodichloromethane	0.75	U	0.30	0.75	1.5	1.5
75-25-2	Bromoform	0.75	U	0.30	0.75	1.5	1.5
74-83-9	Bromomethane	1.5	U	0.52	1.5	3.0	3.0
75-15-0	Carbon disulfide	1.5	U	0.67	1.5	3.0	3.0
56-23-5	Carbon tetrachloride	0.75	U	0.22	0.75	1.5	1.5
108-90-7	Chlorobenzene	0.75	U	0.30	0.75	1.5	1.5
75-00-3	Chloroethane	0.75	U	0.37	0.75	1.5	1.5
67-66-3	Chloroform	0.75	U	0.30	0.75	1.5	1.5
74-87-3	Chloromethane	0.75	U	0.30	0.75	1.5	1.5
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.30	0.75	1.5	1.5
10061-01-5	cis-1,3-Dichloropropene	0.75	U	0.22	0.75	1.5	1.5
124-48-1	Dibromochloromethane	0.75	U	0.30	0.75	1.5	1.5
74-95-3	Dibromomethane	0.75	U	0.30	0.75	1.5	1.5
75-71-8	Dichlorodifluoromethane	1.5	U	0.75	1.5	3.0	3.0
100-41-4	Ethylbenzene	0.75	U	0.30	0.75	1.5	1.5
76-13-1	Freon 113	1.5	U	0.75	1.5	3.0	3.0
87-68-3	Hexachlorobutadiene	1.5	U	0.75	1.5	3.0	3.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB01-12-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	8.11 (g/mL)	CTL Sample ID:	840405
% Solids:	82.6	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 17:33	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.34	J	0.22	1.5	3.0	3.0
98-82-8	Isopropylbenzene	0.75	U	0.22	0.75	1.5	1.5
179601-23-1	m & p-Xylene	1.5	U	0.52	1.5	3.0	3.0
1634-04-4	Methyl tert-butyl ether	0.75	U	0.30	0.75	1.5	1.5
75-09-2	Methylene chloride	1.5	U	1.3	1.5	3.0	3.0
91-20-3	Naphthalene	1.5	U	0.75	1.5	3.0	3.0
104-51-8	n-Butylbenzene	1.5	U	0.67	1.5	3.0	3.0
103-65-1	n-Propylbenzene	1.5	U	0.67	1.5	3.0	3.0
95-47-6	o-Xylene	0.75	U	0.30	0.75	1.5	1.5
99-87-6	p-Isopropyltoluene	1.5	U	0.75	1.5	3.0	3.0
135-98-8	sec-Butylbenzene	1.5	U	0.67	1.5	3.0	3.0
100-42-5	Styrene	0.75	U	0.22	0.75	1.5	1.5
98-06-6	tert-Butylbenzene	1.5	U	0.67	1.5	3.0	3.0
127-18-4	Tetrachloroethene	0.75	U	0.30	0.75	1.5	1.5
108-88-3	Toluene	0.522	J	0.30	0.75	1.5	1.5
156-60-5	trans-1,2-Dichloroethene	0.75	U	0.30	0.75	1.5	1.5
10061-02-6	trans-1,3-Dichloropropene	0.75	U	0.30	0.75	1.5	1.5
79-01-6	Trichloroethene	0.75	U	0.22	0.75	1.5	1.5
75-69-4	Trichlorofluoromethane	0.75	U	0.37	0.75	1.5	1.5
108-05-4	Vinyl acetate	15	U	9.0	15	30	30
75-01-4	Vinyl chloride	0.75	U	0.37	0.75	1.5	1.5

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB04-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.77 (g/mL)	CTL Sample ID:	840410
% Solids:	82.4	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 19:56	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.90	U	0.27	0.90	1.8	1.8
71-55-6	1,1,1-Trichloroethane	0.90	U	0.27	0.90	1.8	1.8
79-34-5	1,1,2,2-Tetrachloroethane	0.90	U	0.45	0.90	1.8	1.8
79-00-5	1,1,2-Trichloroethane	0.90	U	0.36	0.90	1.8	1.8
75-34-3	1,1-Dichloroethane	0.90	U	0.36	0.90	1.8	1.8
75-35-4	1,1-Dichloroethene	0.90	U	0.36	0.90	1.8	1.8
563-58-6	1,1-Dichloropropene	0.90	U	0.36	0.90	1.8	1.8
87-61-6	1,2,3-Trichlorobenzene	1.8	U	0.81	1.8	3.6	3.6
96-18-4	1,2,3-Trichloropropane	0.90	U	0.45	0.90	1.8	1.8
120-82-1	1,2,4-Trichlorobenzene	1.8	U	0.81	1.8	3.6	3.6
95-63-6	1,2,4-Trimethylbenzene	1.8	U	0.72	1.8	3.6	3.6
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U	1.2	1.8	3.6	3.6
106-93-4	1,2-Dibromoethane	0.90	U	0.36	0.90	1.8	1.8
95-50-1	1,2-Dichlorobenzene	1.8	U	0.81	1.8	3.6	3.6
107-06-2	1,2-Dichloroethane	0.90	U	0.45	0.90	1.8	1.8
78-87-5	1,2-Dichloropropane	0.90	U	0.36	0.90	1.8	1.8
108-67-8	1,3,5-Trimethylbenzene	1.8	U	0.81	1.8	3.6	3.6
541-73-1	1,3-Dichlorobenzene	1.8	U	0.81	1.8	3.6	3.6
142-28-9	1,3-Dichloropropane	0.90	U	0.36	0.90	1.8	1.8
106-46-7	1,4-Dichlorobenzene	1.8	U	0.81	1.8	3.6	3.6
544-10-5	1-Chlorohexane	0.90	U	0.54	0.90	1.8	1.8
594-20-7	2,2-Dichloropropane	0.90	U	0.36	0.90	1.8	1.8
78-93-3	2-Butanone	18	U	9.0	18	36	36
95-49-8	2-Chlorotoluene	1.8	U	0.90	1.8	3.6	3.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB04-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.77 (g/mL)	CTL Sample ID:	840410
% Solids:	82.4	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 19:56	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	18	U	9.9	18	36	36
106-43-4	4-Chlorotoluene	1.8	U	0.81	1.8	3.6	3.6
108-10-1	4-Methyl-2-pentanone	18	U	9.0	18	36	36
67-64-1	Acetone	14.2	J	9.0	18	36	36
71-43-2	Benzene	0.90	U	0.27	0.90	1.8	1.8
108-86-1	Bromobenzene	0.90	U	0.45	0.90	1.8	1.8
74-97-5	Bromochloromethane	0.90	U	0.36	0.90	1.8	1.8
75-27-4	Bromodichloromethane	0.90	U	0.36	0.90	1.8	1.8
75-25-2	Bromoform	0.90	U	0.36	0.90	1.8	1.8
74-83-9	Bromomethane	1.8	U	0.63	1.8	3.6	3.6
75-15-0	Carbon disulfide	1.8	U	0.81	1.8	3.6	3.6
56-23-5	Carbon tetrachloride	0.90	U	0.27	0.90	1.8	1.8
108-90-7	Chlorobenzene	0.90	U	0.36	0.90	1.8	1.8
75-00-3	Chloroethane	0.90	U	0.45	0.90	1.8	1.8
67-66-3	Chloroform	0.90	U	0.36	0.90	1.8	1.8
74-87-3	Chloromethane	0.90	U	0.36	0.90	1.8	1.8
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.36	0.90	1.8	1.8
10061-01-5	cis-1,3-Dichloropropene	0.90	U	0.27	0.90	1.8	1.8
124-48-1	Dibromochloromethane	0.90	U	0.36	0.90	1.8	1.8
74-95-3	Dibromomethane	0.90	U	0.36	0.90	1.8	1.8
75-71-8	Dichlorodifluoromethane	1.8	U	0.90	1.8	3.6	3.6
100-41-4	Ethylbenzene	0.90	U	0.36	0.90	1.8	1.8
76-13-1	Freon 113	1.8	U	0.90	1.8	3.6	3.6
87-68-3	Hexachlorobutadiene	1.8	U	0.90	1.8	3.6	3.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB04-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.77 (g/mL)	CTL Sample ID:	840410
% Solids:	82.4	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 19:56	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.8	U	0.27	1.8	3.6	3.6
98-82-8	Isopropylbenzene	0.90	U	0.27	0.90	1.8	1.8
179601-23-1	m & p-Xylene	1.8	U	0.63	1.8	3.6	3.6
1634-04-4	Methyl tert-butyl ether	0.90	U	0.36	0.90	1.8	1.8
75-09-2	Methylene chloride	1.8	U	1.5	1.8	3.6	3.6
91-20-3	Naphthalene	1.8	U	0.90	1.8	3.6	3.6
104-51-8	n-Butylbenzene	1.8	U	0.81	1.8	3.6	3.6
103-65-1	n-Propylbenzene	1.8	U	0.81	1.8	3.6	3.6
95-47-6	o-Xylene	0.90	U	0.36	0.90	1.8	1.8
99-87-6	p-Isopropyltoluene	1.8	U	0.90	1.8	3.6	3.6
135-98-8	sec-Butylbenzene	1.8	U	0.81	1.8	3.6	3.6
100-42-5	Styrene	0.90	U	0.27	0.90	1.8	1.8
98-06-6	tert-Butylbenzene	1.8	U	0.81	1.8	3.6	3.6
127-18-4	Tetrachloroethene	0.90	U	0.36	0.90	1.8	1.8
108-88-3	Toluene	0.90	U	0.36	0.90	1.8	1.8
156-60-5	trans-1,2-Dichloroethene	0.90	U	0.36	0.90	1.8	1.8
10061-02-6	trans-1,3-Dichloropropene	0.90	U	0.36	0.90	1.8	1.8
79-01-6	Trichloroethene	0.90	U	0.27	0.90	1.8	1.8
75-69-4	Trichlorofluoromethane	0.90	U	0.45	0.90	1.8	1.8
108-05-4	Vinyl acetate	18	U	11	18	36	36
75-01-4	Vinyl chloride	0.90	U	0.45	0.90	1.8	1.8

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB05-18-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.99 (g/mL)	CTL Sample ID:	840413
% Solids:	90.1	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 20:25	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.79	U	0.24	0.79	1.6	1.6
71-55-6	1,1,1-Trichloroethane	0.79	U	0.24	0.79	1.6	1.6
79-34-5	1,1,2,2-Tetrachloroethane	0.79	U	0.40	0.79	1.6	1.6
79-00-5	1,1,2-Trichloroethane	0.79	U	0.32	0.79	1.6	1.6
75-34-3	1,1-Dichloroethane	0.79	U	0.32	0.79	1.6	1.6
75-35-4	1,1-Dichloroethene	0.79	U	0.32	0.79	1.6	1.6
563-58-6	1,1-Dichloropropene	0.79	U	0.32	0.79	1.6	1.6
87-61-6	1,2,3-Trichlorobenzene	1.6	U	0.71	1.6	3.2	3.2
96-18-4	1,2,3-Trichloropropane	0.79	U	0.40	0.79	1.6	1.6
120-82-1	1,2,4-Trichlorobenzene	1.6	U	0.71	1.6	3.2	3.2
95-63-6	1,2,4-Trimethylbenzene	1.6	U	0.64	1.6	3.2	3.2
96-12-8	1,2-Dibromo-3-chloropropane	1.6	U	1.0	1.6	3.2	3.2
106-93-4	1,2-Dibromoethane	0.79	U	0.32	0.79	1.6	1.6
95-50-1	1,2-Dichlorobenzene	1.6	U	0.71	1.6	3.2	3.2
107-06-2	1,2-Dichloroethane	0.79	U	0.40	0.79	1.6	1.6
78-87-5	1,2-Dichloropropane	0.79	U	0.32	0.79	1.6	1.6
108-67-8	1,3,5-Trimethylbenzene	1.6	U	0.71	1.6	3.2	3.2
541-73-1	1,3-Dichlorobenzene	1.6	U	0.71	1.6	3.2	3.2
142-28-9	1,3-Dichloropropane	0.79	U	0.32	0.79	1.6	1.6
106-46-7	1,4-Dichlorobenzene	1.6	U	0.71	1.6	3.2	3.2
544-10-5	1-Chlorohexane	0.79	U	0.48	0.79	1.6	1.6
594-20-7	2,2-Dichloropropane	0.79	U	0.32	0.79	1.6	1.6
78-93-3	2-Butanone	16	U	7.9	16	32	32
95-49-8	2-Chlorotoluene	1.6	U	0.79	1.6	3.2	3.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB05-18-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.99 (g/mL)	CTL Sample ID:	840413
% Solids:	90.1	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 20:25	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	16	U	8.7	16	32	32
106-43-4	4-Chlorotoluene	1.6	U	0.71	1.6	3.2	3.2
108-10-1	4-Methyl-2-pentanone	16	U	7.9	16	32	32
67-64-1	Acetone	9.29	J	7.9	16	32	32
71-43-2	Benzene	0.79	U	0.24	0.79	1.6	1.6
108-86-1	Bromobenzene	0.79	U	0.40	0.79	1.6	1.6
74-97-5	Bromochloromethane	0.79	U	0.32	0.79	1.6	1.6
75-27-4	Bromodichloromethane	0.79	U	0.32	0.79	1.6	1.6
75-25-2	Bromoform	0.79	U	0.32	0.79	1.6	1.6
74-83-9	Bromomethane	1.6	U	0.56	1.6	3.2	3.2
75-15-0	Carbon disulfide	1.6	U	0.71	1.6	3.2	3.2
56-23-5	Carbon tetrachloride	0.79	U	0.24	0.79	1.6	1.6
108-90-7	Chlorobenzene	0.79	U	0.32	0.79	1.6	1.6
75-00-3	Chloroethane	0.79	U	0.40	0.79	1.6	1.6
67-66-3	Chloroform	0.79	U	0.32	0.79	1.6	1.6
74-87-3	Chloromethane	0.79	U	0.32	0.79	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	0.79	U	0.32	0.79	1.6	1.6
10061-01-5	cis-1,3-Dichloropropene	0.79	U	0.24	0.79	1.6	1.6
124-48-1	Dibromochloromethane	0.79	U	0.32	0.79	1.6	1.6
74-95-3	Dibromomethane	0.79	U	0.32	0.79	1.6	1.6
75-71-8	Dichlorodifluoromethane	1.6	U	0.79	1.6	3.2	3.2
100-41-4	Ethylbenzene	0.79	U	0.32	0.79	1.6	1.6
76-13-1	Freon 113	1.6	U	0.79	1.6	3.2	3.2
87-68-3	Hexachlorobutadiene	1.6	U	0.79	1.6	3.2	3.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB05-18-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.99 (g/mL)	CTL Sample ID:	840413
% Solids:	90.1	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 20:25	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.6	U	0.24	1.6	3.2	3.2
98-82-8	Isopropylbenzene	0.79	U	0.24	0.79	1.6	1.6
179601-23-1	m & p-Xylene	1.6	U	0.56	1.6	3.2	3.2
1634-04-4	Methyl tert-butyl ether	0.79	U	0.32	0.79	1.6	1.6
75-09-2	Methylene chloride	1.6	U	1.3	1.6	3.2	3.2
91-20-3	Naphthalene	1.6	U	0.79	1.6	3.2	3.2
104-51-8	n-Butylbenzene	1.6	U	0.71	1.6	3.2	3.2
103-65-1	n-Propylbenzene	1.6	U	0.71	1.6	3.2	3.2
95-47-6	o-Xylene	0.79	U	0.32	0.79	1.6	1.6
99-87-6	p-Isopropyltoluene	1.6	U	0.79	1.6	3.2	3.2
135-98-8	sec-Butylbenzene	1.6	U	0.71	1.6	3.2	3.2
100-42-5	Styrene	0.79	U	0.24	0.79	1.6	1.6
98-06-6	tert-Butylbenzene	1.6	U	0.71	1.6	3.2	3.2
127-18-4	Tetrachloroethene	0.79	U	0.32	0.79	1.6	1.6
108-88-3	Toluene	0.873	J	0.32	0.79	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	0.79	U	0.32	0.79	1.6	1.6
10061-02-6	trans-1,3-Dichloropropene	0.79	U	0.32	0.79	1.6	1.6
79-01-6	Trichloroethene	0.79	U	0.24	0.79	1.6	1.6
75-69-4	Trichlorofluoromethane	0.79	U	0.40	0.79	1.6	1.6
108-05-4	Vinyl acetate	16	U	9.5	16	32	32
75-01-4	Vinyl chloride	0.79	U	0.40	0.79	1.6	1.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB08-17-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.82 (g/mL)	CTL Sample ID:	840406
% Solids:	88.1	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 18:01	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.83	U	0.25	0.83	1.7	1.7
71-55-6	1,1,1-Trichloroethane	0.83	U	0.25	0.83	1.7	1.7
79-34-5	1,1,2,2-Tetrachloroethane	0.83	U	0.42	0.83	1.7	1.7
79-00-5	1,1,2-Trichloroethane	0.83	U	0.33	0.83	1.7	1.7
75-34-3	1,1-Dichloroethane	0.83	U	0.33	0.83	1.7	1.7
75-35-4	1,1-Dichloroethene	0.83	U	0.33	0.83	1.7	1.7
563-58-6	1,1-Dichloropropene	0.83	U	0.33	0.83	1.7	1.7
87-61-6	1,2,3-Trichlorobenzene	1.7	U	0.75	1.7	3.3	3.3
96-18-4	1,2,3-Trichloropropane	0.83	U	0.42	0.83	1.7	1.7
120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.75	1.7	3.3	3.3
95-63-6	1,2,4-Trimethylbenzene	1.7	U	0.67	1.7	3.3	3.3
96-12-8	1,2-Dibromo-3-chloropropane	1.7	U	1.1	1.7	3.3	3.3
106-93-4	1,2-Dibromoethane	0.83	U	0.33	0.83	1.7	1.7
95-50-1	1,2-Dichlorobenzene	1.7	U	0.75	1.7	3.3	3.3
107-06-2	1,2-Dichloroethane	0.83	U	0.42	0.83	1.7	1.7
78-87-5	1,2-Dichloropropane	0.83	U	0.33	0.83	1.7	1.7
108-67-8	1,3,5-Trimethylbenzene	1.7	U	0.75	1.7	3.3	3.3
541-73-1	1,3-Dichlorobenzene	1.7	U	0.75	1.7	3.3	3.3
142-28-9	1,3-Dichloropropane	0.83	U	0.33	0.83	1.7	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	0.75	1.7	3.3	3.3
544-10-5	1-Chlorohexane	0.83	U	0.50	0.83	1.7	1.7
594-20-7	2,2-Dichloropropane	0.83	U	0.33	0.83	1.7	1.7
78-93-3	2-Butanone	17	U	8.3	17	33	33
95-49-8	2-Chlorotoluene	1.7	U	0.83	1.7	3.3	3.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB08-17-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.82 (g/mL)	CTL Sample ID:	840406
% Solids:	88.1	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 18:01	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	17	U	9.2	17	33	33
106-43-4	4-Chlorotoluene	1.7	U	0.75	1.7	3.3	3.3
108-10-1	4-Methyl-2-pentanone	17	U	8.3	17	33	33
67-64-1	Acetone	13.0	J	8.3	17	33	33
71-43-2	Benzene	0.83	U	0.25	0.83	1.7	1.7
108-86-1	Bromobenzene	0.83	U	0.42	0.83	1.7	1.7
74-97-5	Bromochloromethane	0.83	U	0.33	0.83	1.7	1.7
75-27-4	Bromodichloromethane	0.83	U	0.33	0.83	1.7	1.7
75-25-2	Bromoform	0.83	U	0.33	0.83	1.7	1.7
74-83-9	Bromomethane	1.7	U	0.58	1.7	3.3	3.3
75-15-0	Carbon disulfide	1.7	U	0.75	1.7	3.3	3.3
56-23-5	Carbon tetrachloride	0.83	U	0.25	0.83	1.7	1.7
108-90-7	Chlorobenzene	0.83	U	0.33	0.83	1.7	1.7
75-00-3	Chloroethane	0.83	U	0.42	0.83	1.7	1.7
67-66-3	Chloroform	0.83	U	0.33	0.83	1.7	1.7
74-87-3	Chloromethane	0.83	U	0.33	0.83	1.7	1.7
156-59-2	cis-1,2-Dichloroethene	0.83	U	0.33	0.83	1.7	1.7
10061-01-5	cis-1,3-Dichloropropene	0.83	U	0.25	0.83	1.7	1.7
124-48-1	Dibromochloromethane	0.83	U	0.33	0.83	1.7	1.7
74-95-3	Dibromomethane	0.83	U	0.33	0.83	1.7	1.7
75-71-8	Dichlorodifluoromethane	1.7	U	0.83	1.7	3.3	3.3
100-41-4	Ethylbenzene	0.83	U	0.33	0.83	1.7	1.7
76-13-1	Freon 113	1.7	U	0.83	1.7	3.3	3.3
87-68-3	Hexachlorobutadiene	1.7	U	0.83	1.7	3.3	3.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB08-17-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.82 (g/mL)	CTL Sample ID:	840406
% Solids:	88.1	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 18:01	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.7	U	0.25	1.7	3.3	3.3
98-82-8	Isopropylbenzene	0.83	U	0.25	0.83	1.7	1.7
179601-23-1	m & p-Xylene	1.7	U	0.58	1.7	3.3	3.3
1634-04-4	Methyl tert-butyl ether	0.83	U	0.33	0.83	1.7	1.7
75-09-2	Methylene chloride	1.7	U	1.4	1.7	3.3	3.3
91-20-3	Naphthalene	1.7	U	0.83	1.7	3.3	3.3
104-51-8	n-Butylbenzene	1.7	U	0.75	1.7	3.3	3.3
103-65-1	n-Propylbenzene	1.7	U	0.75	1.7	3.3	3.3
95-47-6	o-Xylene	0.83	U	0.33	0.83	1.7	1.7
99-87-6	p-Isopropyltoluene	1.7	U	0.83	1.7	3.3	3.3
135-98-8	sec-Butylbenzene	1.7	U	0.75	1.7	3.3	3.3
100-42-5	Styrene	0.83	U	0.25	0.83	1.7	1.7
98-06-6	tert-Butylbenzene	1.7	U	0.75	1.7	3.3	3.3
127-18-4	Tetrachloroethene	0.83	U	0.33	0.83	1.7	1.7
108-88-3	Toluene	1.25	J	0.33	0.83	1.7	1.7
156-60-5	trans-1,2-Dichloroethene	0.83	U	0.33	0.83	1.7	1.7
10061-02-6	trans-1,3-Dichloropropene	0.83	U	0.33	0.83	1.7	1.7
79-01-6	Trichloroethene	0.83	U	0.25	0.83	1.7	1.7
75-69-4	Trichlorofluoromethane	0.83	U	0.42	0.83	1.7	1.7
108-05-4	Vinyl acetate	17	U	10	17	33	33
75-01-4	Vinyl chloride	0.83	U	0.42	0.83	1.7	1.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB10-9-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.79 (g/mL)	CTL Sample ID:	840407
% Solids:	80.5	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 18:30	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.32	1.1	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.1	U	0.32	1.1	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.54	1.1	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.1	U	0.43	1.1	2.1	2.1
75-34-3	1,1-Dichloroethane	1.1	U	0.43	1.1	2.1	2.1
75-35-4	1,1-Dichloroethene	1.1	U	0.43	1.1	2.1	2.1
563-58-6	1,1-Dichloropropene	1.1	U	0.43	1.1	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.97	2.1	4.3	4.3
96-18-4	1,2,3-Trichloropropane	1.1	U	0.54	1.1	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.97	2.1	4.3	4.3
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.86	2.1	4.3	4.3
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.4	2.1	4.3	4.3
106-93-4	1,2-Dibromoethane	1.1	U	0.43	1.1	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.97	2.1	4.3	4.3
107-06-2	1,2-Dichloroethane	1.1	U	0.54	1.1	2.1	2.1
78-87-5	1,2-Dichloropropane	1.1	U	0.43	1.1	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.97	2.1	4.3	4.3
541-73-1	1,3-Dichlorobenzene	2.1	U	0.97	2.1	4.3	4.3
142-28-9	1,3-Dichloropropane	1.1	U	0.43	1.1	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.97	2.1	4.3	4.3
544-10-5	1-Chlorohexane	1.1	U	0.64	1.1	2.1	2.1
594-20-7	2,2-Dichloropropane	1.1	U	0.43	1.1	2.1	2.1
78-93-3	2-Butanone	21	U	11	21	43	43
95-49-8	2-Chlorotoluene	2.1	U	1.1	2.1	4.3	4.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB10-9-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.79 (g/mL)	CTL Sample ID:	840407
% Solids:	80.5	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 18:30	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	21	U	12	21	43	43
106-43-4	4-Chlorotoluene	2.1	U	0.97	2.1	4.3	4.3
108-10-1	4-Methyl-2-pentanone	21	U	11	21	43	43
67-64-1	Acetone	70.8		11	21	43	43
71-43-2	Benzene	1.1	U	0.32	1.1	2.1	2.1
108-86-1	Bromobenzene	1.1	U	0.54	1.1	2.1	2.1
74-97-5	Bromochloromethane	1.1	U	0.43	1.1	2.1	2.1
75-27-4	Bromodichloromethane	1.1	U	0.43	1.1	2.1	2.1
75-25-2	Bromoform	1.1	U	0.43	1.1	2.1	2.1
74-83-9	Bromomethane	2.1	U	0.75	2.1	4.3	4.3
75-15-0	Carbon disulfide	2.1	U	0.97	2.1	4.3	4.3
56-23-5	Carbon tetrachloride	1.1	U	0.32	1.1	2.1	2.1
108-90-7	Chlorobenzene	1.1	U	0.43	1.1	2.1	2.1
75-00-3	Chloroethane	1.1	U	0.54	1.1	2.1	2.1
67-66-3	Chloroform	1.1	U	0.43	1.1	2.1	2.1
74-87-3	Chloromethane	1.1	U	0.43	1.1	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	1.1	U	0.43	1.1	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.32	1.1	2.1	2.1
124-48-1	Dibromochloromethane	1.1	U	0.43	1.1	2.1	2.1
74-95-3	Dibromomethane	1.1	U	0.43	1.1	2.1	2.1
75-71-8	Dichlorodifluoromethane	2.1	U	1.1	2.1	4.3	4.3
100-41-4	Ethylbenzene	1.1	U	0.43	1.1	2.1	2.1
76-13-1	Freon 113	2.1	U	1.1	2.1	4.3	4.3
87-68-3	Hexachlorobutadiene	2.1	U	1.1	2.1	4.3	4.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB10-9-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.79 (g/mL)	CTL Sample ID:	840407
% Solids:	80.5	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 18:30	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	2.36	J	0.32	2.1	4.3	4.3
98-82-8	Isopropylbenzene	1.1	U	0.32	1.1	2.1	2.1
179601-23-1	m & p-Xylene	2.1	U	0.75	2.1	4.3	4.3
1634-04-4	Methyl tert-butyl ether	1.1	U	0.43	1.1	2.1	2.1
75-09-2	Methylene chloride	2.1	U	1.8	2.1	4.3	4.3
91-20-3	Naphthalene	2.1	U	1.1	2.1	4.3	4.3
104-51-8	n-Butylbenzene	2.1	U	0.97	2.1	4.3	4.3
103-65-1	n-Propylbenzene	2.1	U	0.97	2.1	4.3	4.3
95-47-6	o-Xylene	1.1	U	0.43	1.1	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.1	2.1	4.3	4.3
135-98-8	sec-Butylbenzene	2.1	U	0.97	2.1	4.3	4.3
100-42-5	Styrene	1.1	U	0.32	1.1	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.97	2.1	4.3	4.3
127-18-4	Tetrachloroethene	1.1	U	0.43	1.1	2.1	2.1
108-88-3	Toluene	1.1	U	0.43	1.1	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.43	1.1	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.43	1.1	2.1	2.1
79-01-6	Trichloroethene	1.1	U	0.32	1.1	2.1	2.1
75-69-4	Trichlorofluoromethane	1.1	U	0.54	1.1	2.1	2.1
108-05-4	Vinyl acetate	21	U	13	21	43	43
75-01-4	Vinyl chloride	1.1	U	0.54	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB11-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.91 (g/mL)	CTL Sample ID:	840409
% Solids:	79.0	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 19:27	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.32	1.1	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.1	U	0.32	1.1	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.54	1.1	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.1	U	0.43	1.1	2.1	2.1
75-34-3	1,1-Dichloroethane	1.1	U	0.43	1.1	2.1	2.1
75-35-4	1,1-Dichloroethene	1.1	U	0.43	1.1	2.1	2.1
563-58-6	1,1-Dichloropropene	1.1	U	0.43	1.1	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.96	2.1	4.3	4.3
96-18-4	1,2,3-Trichloropropane	1.1	U	0.54	1.1	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.96	2.1	4.3	4.3
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.86	2.1	4.3	4.3
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.4	2.1	4.3	4.3
106-93-4	1,2-Dibromoethane	1.1	U	0.43	1.1	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.96	2.1	4.3	4.3
107-06-2	1,2-Dichloroethane	1.1	U	0.54	1.1	2.1	2.1
78-87-5	1,2-Dichloropropane	1.1	U	0.43	1.1	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.96	2.1	4.3	4.3
541-73-1	1,3-Dichlorobenzene	2.1	U	0.96	2.1	4.3	4.3
142-28-9	1,3-Dichloropropane	1.1	U	0.43	1.1	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.96	2.1	4.3	4.3
544-10-5	1-Chlorohexane	1.1	U	0.64	1.1	2.1	2.1
594-20-7	2,2-Dichloropropane	1.1	U	0.43	1.1	2.1	2.1
78-93-3	2-Butanone	21	U	11	21	43	43
95-49-8	2-Chlorotoluene	2.1	U	1.1	2.1	4.3	4.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB11-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.91 (g/mL)	CTL Sample ID:	840409
% Solids:	79.0	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 19:27	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	21	U	12	21	43	43
106-43-4	4-Chlorotoluene	2.1	U	0.96	2.1	4.3	4.3
108-10-1	4-Methyl-2-pentanone	21	U	11	21	43	43
67-64-1	Acetone	22.7	J	11	21	43	43
71-43-2	Benzene	1.1	U	0.32	1.1	2.1	2.1
108-86-1	Bromobenzene	1.1	U	0.54	1.1	2.1	2.1
74-97-5	Bromochloromethane	1.1	U	0.43	1.1	2.1	2.1
75-27-4	Bromodichloromethane	1.1	U	0.43	1.1	2.1	2.1
75-25-2	Bromoform	1.1	U	0.43	1.1	2.1	2.1
74-83-9	Bromomethane	2.1	U	0.75	2.1	4.3	4.3
75-15-0	Carbon disulfide	2.1	U	0.96	2.1	4.3	4.3
56-23-5	Carbon tetrachloride	1.1	U	0.32	1.1	2.1	2.1
108-90-7	Chlorobenzene	1.1	U	0.43	1.1	2.1	2.1
75-00-3	Chloroethane	1.1	U	0.54	1.1	2.1	2.1
67-66-3	Chloroform	1.1	U	0.43	1.1	2.1	2.1
74-87-3	Chloromethane	1.1	U	0.43	1.1	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	1.1	U	0.43	1.1	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.32	1.1	2.1	2.1
124-48-1	Dibromochloromethane	1.1	U	0.43	1.1	2.1	2.1
74-95-3	Dibromomethane	1.1	U	0.43	1.1	2.1	2.1
75-71-8	Dichlorodifluoromethane	2.1	U	1.1	2.1	4.3	4.3
100-41-4	Ethylbenzene	1.1	U	0.43	1.1	2.1	2.1
76-13-1	Freon 113	2.1	U	1.1	2.1	4.3	4.3
87-68-3	Hexachlorobutadiene	2.1	U	1.1	2.1	4.3	4.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB11-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.91 (g/mL)	CTL Sample ID:	840409
% Solids:	79.0	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 19:27	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	2.25	J	0.32	2.1	4.3	4.3
98-82-8	Isopropylbenzene	1.1	U	0.32	1.1	2.1	2.1
179601-23-1	m & p-Xylene	2.1	U	0.75	2.1	4.3	4.3
1634-04-4	Methyl tert-butyl ether	1.1	U	0.43	1.1	2.1	2.1
75-09-2	Methylene chloride	2.1	U	1.8	2.1	4.3	4.3
91-20-3	Naphthalene	2.1	U	1.1	2.1	4.3	4.3
104-51-8	n-Butylbenzene	2.1	U	0.96	2.1	4.3	4.3
103-65-1	n-Propylbenzene	2.1	U	0.96	2.1	4.3	4.3
95-47-6	o-Xylene	1.1	U	0.43	1.1	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.1	2.1	4.3	4.3
135-98-8	sec-Butylbenzene	2.1	U	0.96	2.1	4.3	4.3
100-42-5	Styrene	1.1	U	0.32	1.1	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.96	2.1	4.3	4.3
127-18-4	Tetrachloroethene	1.1	U	0.43	1.1	2.1	2.1
108-88-3	Toluene	1.93	J	0.43	1.1	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.43	1.1	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.43	1.1	2.1	2.1
79-01-6	Trichloroethene	1.1	U	0.32	1.1	2.1	2.1
75-69-4	Trichlorofluoromethane	1.1	U	0.54	1.1	2.1	2.1
108-05-4	Vinyl acetate	21	U	13	21	43	43
75-01-4	Vinyl chloride	1.1	U	0.54	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB14-19-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.08 (g/mL)	CTL Sample ID:	840404
% Solids:	88.8	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 17:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.33	1.1	2.2	2.2
71-55-6	1,1,1-Trichloroethane	1.1	U	0.33	1.1	2.2	2.2
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.55	1.1	2.2	2.2
79-00-5	1,1,2-Trichloroethane	1.1	U	0.44	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	2.2	U	1.0	2.2	4.4	4.4
96-18-4	1,2,3-Trichloropropane	1.1	U	0.55	1.1	2.2	2.2
120-82-1	1,2,4-Trichlorobenzene	2.2	U	1.0	2.2	4.4	4.4
95-63-6	1,2,4-Trimethylbenzene	2.2	U	0.89	2.2	4.4	4.4
96-12-8	1,2-Dibromo-3-chloropropane	2.2	U	1.4	2.2	4.4	4.4
106-93-4	1,2-Dibromoethane	1.1	U	0.44	1.1	2.2	2.2
95-50-1	1,2-Dichlorobenzene	2.2	U	1.0	2.2	4.4	4.4
107-06-2	1,2-Dichloroethane	1.1	U	0.55	1.1	2.2	2.2
78-87-5	1,2-Dichloropropane	1.1	U	0.44	1.1	2.2	2.2
108-67-8	1,3,5-Trimethylbenzene	2.2	U	1.0	2.2	4.4	4.4
541-73-1	1,3-Dichlorobenzene	2.2	U	1.0	2.2	4.4	4.4
142-28-9	1,3-Dichloropropane	1.1	U	0.44	1.1	2.2	2.2
106-46-7	1,4-Dichlorobenzene	2.2	U	1.0	2.2	4.4	4.4
544-10-5	1-Chlorohexane	1.1	U	0.67	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	22	U	11	22	44	44
95-49-8	2-Chlorotoluene	2.2	U	1.1	2.2	4.4	4.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB14-19-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.08 (g/mL)	CTL Sample ID:	840404
% Solids:	88.8	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 17:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	22	U	12	22	44	44
106-43-4	4-Chlorotoluene	2.2	U	1.0	2.2	4.4	4.4
108-10-1	4-Methyl-2-pentanone	22	U	11	22	44	44
67-64-1	Acetone	13.4	J	11	22	44	44
71-43-2	Benzene	1.1	U	0.33	1.1	2.2	2.2
108-86-1	Bromobenzene	1.1	U	0.55	1.1	2.2	2.2
74-97-5	Bromochloromethane	1.1	U	0.44	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	0.44	1.1	2.2	2.2
74-83-9	Bromomethane	2.2	U	0.78	2.2	4.4	4.4
75-15-0	Carbon disulfide	2.2	U	1.0	2.2	4.4	4.4
56-23-5	Carbon tetrachloride	1.1	U	0.33	1.1	2.2	2.2
108-90-7	Chlorobenzene	1.1	U	0.44	1.1	2.2	2.2
75-00-3	Chloroethane	1.1	U	0.55	1.1	2.2	2.2
67-66-3	Chloroform	1.1	U	0.44	1.1	2.2	2.2
74-87-3	Chloromethane	1.1	U	0.44	1.1	2.2	2.2
156-59-2	cis-1,2-Dichloroethene	1.1	U	0.44	1.1	2.2	2.2
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.33	1.1	2.2	2.2
124-48-1	Dibromochloromethane	1.1	U	0.44	1.1	2.2	2.2
74-95-3	Dibromomethane	1.1	U	0.44	1.1	2.2	2.2
75-71-8	Dichlorodifluoromethane	2.2	U	1.1	2.2	4.4	4.4
100-41-4	Ethylbenzene	1.1	U	0.44	1.1	2.2	2.2
76-13-1	Freon 113	2.2	U	1.1	2.2	4.4	4.4
87-68-3	Hexachlorobutadiene	2.2	U	1.1	2.2	4.4	4.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB14-19-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.08 (g/mL)	CTL Sample ID:	840404
% Solids:	88.8	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 17:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	2.2	U	0.33	2.2	4.4	4.4
98-82-8	Isopropylbenzene	1.1	U	0.33	1.1	2.2	2.2
179601-23-1	m & p-Xylene	2.2	U	0.78	2.2	4.4	4.4
1634-04-4	Methyl tert-butyl ether	1.1	U	0.44	1.1	2.2	2.2
75-09-2	Methylene chloride	2.2	U	1.9	2.2	4.4	4.4
91-20-3	Naphthalene	2.2	U	1.1	2.2	4.4	4.4
104-51-8	n-Butylbenzene	2.2	U	1.0	2.2	4.4	4.4
103-65-1	n-Propylbenzene	2.2	U	1.0	2.2	4.4	4.4
95-47-6	o-Xylene	1.1	U	0.44	1.1	2.2	2.2
99-87-6	p-Isopropyltoluene	2.2	U	1.1	2.2	4.4	4.4
135-98-8	sec-Butylbenzene	2.2	U	1.0	2.2	4.4	4.4
100-42-5	Styrene	1.1	U	0.33	1.1	2.2	2.2
98-06-6	tert-Butylbenzene	2.2	U	1.0	2.2	4.4	4.4
127-18-4	Tetrachloroethene	1.1	U	0.44	1.1	2.2	2.2
108-88-3	Toluene	1.11	J	0.44	1.1	2.2	2.2
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.44	1.1	2.2	2.2
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.44	1.1	2.2	2.2
79-01-6	Trichloroethene	1.1	U	0.33	1.1	2.2	2.2
75-69-4	Trichlorofluoromethane	1.1	U	0.55	1.1	2.2	2.2
108-05-4	Vinyl acetate	22	U	13	22	44	44
75-01-4	Vinyl chloride	1.1	U	0.55	1.1	2.2	2.2

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB22-19-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.79 (g/mL)	CTL Sample ID:	840399
% Solids:	87.8	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 14:41	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.98	U	0.30	0.98	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.98	U	0.30	0.98	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.98	U	0.49	0.98	2.0	2.0
79-00-5	1,1,2-Trichloroethane	0.98	U	0.39	0.98	2.0	2.0
75-34-3	1,1-Dichloroethane	0.98	U	0.39	0.98	2.0	2.0
75-35-4	1,1-Dichloroethene	0.98	U	0.39	0.98	2.0	2.0
563-58-6	1,1-Dichloropropene	0.98	U	0.39	0.98	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.89	2.0	3.9	3.9
96-18-4	1,2,3-Trichloropropane	0.98	U	0.49	0.98	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.89	2.0	3.9	3.9
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.79	2.0	3.9	3.9
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	3.9	3.9
106-93-4	1,2-Dibromoethane	0.98	U	0.39	0.98	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.89	2.0	3.9	3.9
107-06-2	1,2-Dichloroethane	0.98	U	0.49	0.98	2.0	2.0
78-87-5	1,2-Dichloropropane	0.98	U	0.39	0.98	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.89	2.0	3.9	3.9
541-73-1	1,3-Dichlorobenzene	2.0	U	0.89	2.0	3.9	3.9
142-28-9	1,3-Dichloropropane	0.98	U	0.39	0.98	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.89	2.0	3.9	3.9
544-10-5	1-Chlorohexane	0.98	U	0.59	0.98	2.0	2.0
594-20-7	2,2-Dichloropropane	0.98	U	0.39	0.98	2.0	2.0
78-93-3	2-Butanone	20	U	9.8	20	39	39
95-49-8	2-Chlorotoluene	2.0	U	0.98	2.0	3.9	3.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB22-19-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.79 (g/mL)	CTL Sample ID:	840399
% Solids:	87.8	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 14:41	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	20	U	11	20	39	39
106-43-4	4-Chlorotoluene	2.0	U	0.89	2.0	3.9	3.9
108-10-1	4-Methyl-2-pentanone	20	U	9.8	20	39	39
67-64-1	Acetone	24.1	J	9.8	20	39	39
71-43-2	Benzene	0.98	U	0.30	0.98	2.0	2.0
108-86-1	Bromobenzene	0.98	U	0.49	0.98	2.0	2.0
74-97-5	Bromochloromethane	0.98	U	0.39	0.98	2.0	2.0
75-27-4	Bromodichloromethane	0.98	U	0.39	0.98	2.0	2.0
75-25-2	Bromoform	0.98	U	0.39	0.98	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.69	2.0	3.9	3.9
75-15-0	Carbon disulfide	2.0	U	0.89	2.0	3.9	3.9
56-23-5	Carbon tetrachloride	0.98	U	0.30	0.98	2.0	2.0
108-90-7	Chlorobenzene	0.98	U	0.39	0.98	2.0	2.0
75-00-3	Chloroethane	0.98	U	0.49	0.98	2.0	2.0
67-66-3	Chloroform	0.98	U	0.39	0.98	2.0	2.0
74-87-3	Chloromethane	0.98	U	0.39	0.98	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.98	U	0.39	0.98	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	0.98	U	0.30	0.98	2.0	2.0
124-48-1	Dibromochloromethane	0.98	U	0.39	0.98	2.0	2.0
74-95-3	Dibromomethane	0.98	U	0.39	0.98	2.0	2.0
75-71-8	Dichlorodifluoromethane	2.0	U	0.98	2.0	3.9	3.9
100-41-4	Ethylbenzene	0.98	U	0.39	0.98	2.0	2.0
76-13-1	Freon 113	2.0	U	0.98	2.0	3.9	3.9
87-68-3	Hexachlorobutadiene	2.0	U	0.98	2.0	3.9	3.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB22-19-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.79 (g/mL)	CTL Sample ID:	840399
% Solids:	87.8	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 14:41	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	2.0	U	0.30	2.0	3.9	3.9
98-82-8	Isopropylbenzene	0.98	U	0.30	0.98	2.0	2.0
179601-23-1	m & p-Xylene	2.0	U	0.69	2.0	3.9	3.9
1634-04-4	Methyl tert-butyl ether	0.98	U	0.39	0.98	2.0	2.0
75-09-2	Methylene chloride	2.0	U	1.7	2.0	3.9	3.9
91-20-3	Naphthalene	2.0	U	0.98	2.0	3.9	3.9
104-51-8	n-Butylbenzene	2.0	U	0.89	2.0	3.9	3.9
103-65-1	n-Propylbenzene	2.0	U	0.89	2.0	3.9	3.9
95-47-6	o-Xylene	0.98	U	0.39	0.98	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	0.98	2.0	3.9	3.9
135-98-8	sec-Butylbenzene	2.0	U	0.89	2.0	3.9	3.9
100-42-5	Styrene	0.98	U	0.30	0.98	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.89	2.0	3.9	3.9
127-18-4	Tetrachloroethene	0.98	U	0.39	0.98	2.0	2.0
108-88-3	Toluene	1.18	J	0.39	0.98	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	0.98	U	0.39	0.98	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	0.98	U	0.39	0.98	2.0	2.0
79-01-6	Trichloroethene	0.98	U	0.30	0.98	2.0	2.0
75-69-4	Trichlorofluoromethane	0.98	U	0.49	0.98	2.0	2.0
108-05-4	Vinyl acetate	20	U	12	20	39	39
75-01-4	Vinyl chloride	0.98	U	0.49	0.98	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB23-16-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.17 (g/mL)	CTL Sample ID:	840400
% Solids:	89.9	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 15:09	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.90	U	0.27	0.90	1.8	1.8
71-55-6	1,1,1-Trichloroethane	0.90	U	0.27	0.90	1.8	1.8
79-34-5	1,1,2,2-Tetrachloroethane	0.90	U	0.45	0.90	1.8	1.8
79-00-5	1,1,2-Trichloroethane	0.90	U	0.36	0.90	1.8	1.8
75-34-3	1,1-Dichloroethane	0.90	U	0.36	0.90	1.8	1.8
75-35-4	1,1-Dichloroethene	0.90	U	0.36	0.90	1.8	1.8
563-58-6	1,1-Dichloropropene	0.90	U	0.36	0.90	1.8	1.8
87-61-6	1,2,3-Trichlorobenzene	1.8	U	0.81	1.8	3.6	3.6
96-18-4	1,2,3-Trichloropropane	0.90	U	0.45	0.90	1.8	1.8
120-82-1	1,2,4-Trichlorobenzene	1.8	U	0.81	1.8	3.6	3.6
95-63-6	1,2,4-Trimethylbenzene	1.8	U	0.72	1.8	3.6	3.6
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U	1.2	1.8	3.6	3.6
106-93-4	1,2-Dibromoethane	0.90	U	0.36	0.90	1.8	1.8
95-50-1	1,2-Dichlorobenzene	1.8	U	0.81	1.8	3.6	3.6
107-06-2	1,2-Dichloroethane	0.90	U	0.45	0.90	1.8	1.8
78-87-5	1,2-Dichloropropane	0.90	U	0.36	0.90	1.8	1.8
108-67-8	1,3,5-Trimethylbenzene	1.8	U	0.81	1.8	3.6	3.6
541-73-1	1,3-Dichlorobenzene	1.8	U	0.81	1.8	3.6	3.6
142-28-9	1,3-Dichloropropane	0.90	U	0.36	0.90	1.8	1.8
106-46-7	1,4-Dichlorobenzene	1.8	U	0.81	1.8	3.6	3.6
544-10-5	1-Chlorohexane	0.90	U	0.54	0.90	1.8	1.8
594-20-7	2,2-Dichloropropane	0.90	U	0.36	0.90	1.8	1.8
78-93-3	2-Butanone	18	U	9.0	18	36	36
95-49-8	2-Chlorotoluene	1.8	U	0.90	1.8	3.6	3.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB23-16-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.17 (g/mL)	CTL Sample ID:	840400
% Solids:	89.9	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 15:09	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	18	U	9.9	18	36	36
106-43-4	4-Chlorotoluene	1.8	U	0.81	1.8	3.6	3.6
108-10-1	4-Methyl-2-pentanone	18	U	9.0	18	36	36
67-64-1	Acetone	18.5	J	9.0	18	36	36
71-43-2	Benzene	0.90	U	0.27	0.90	1.8	1.8
108-86-1	Bromobenzene	0.90	U	0.45	0.90	1.8	1.8
74-97-5	Bromochloromethane	0.90	U	0.36	0.90	1.8	1.8
75-27-4	Bromodichloromethane	0.90	U	0.36	0.90	1.8	1.8
75-25-2	Bromoform	0.90	U	0.36	0.90	1.8	1.8
74-83-9	Bromomethane	1.8	U	0.63	1.8	3.6	3.6
75-15-0	Carbon disulfide	1.8	U	0.81	1.8	3.6	3.6
56-23-5	Carbon tetrachloride	0.90	U	0.27	0.90	1.8	1.8
108-90-7	Chlorobenzene	0.90	U	0.36	0.90	1.8	1.8
75-00-3	Chloroethane	0.90	U	0.45	0.90	1.8	1.8
67-66-3	Chloroform	0.90	U	0.36	0.90	1.8	1.8
74-87-3	Chloromethane	0.90	U	0.36	0.90	1.8	1.8
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.36	0.90	1.8	1.8
10061-01-5	cis-1,3-Dichloropropene	0.90	U	0.27	0.90	1.8	1.8
124-48-1	Dibromochloromethane	0.90	U	0.36	0.90	1.8	1.8
74-95-3	Dibromomethane	0.90	U	0.36	0.90	1.8	1.8
75-71-8	Dichlorodifluoromethane	1.8	U	0.90	1.8	3.6	3.6
100-41-4	Ethylbenzene	0.90	U	0.36	0.90	1.8	1.8
76-13-1	Freon 113	1.8	U	0.90	1.8	3.6	3.6
87-68-3	Hexachlorobutadiene	1.8	U	0.90	1.8	3.6	3.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB23-16-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.17 (g/mL)	CTL Sample ID:	840400
% Solids:	89.9	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 15:09	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.8	U	0.27	1.8	3.6	3.6
98-82-8	Isopropylbenzene	0.90	U	0.27	0.90	1.8	1.8
179601-23-1	m & p-Xylene	1.8	U	0.63	1.8	3.6	3.6
1634-04-4	Methyl tert-butyl ether	0.90	U	0.36	0.90	1.8	1.8
75-09-2	Methylene chloride	1.8	U	1.5	1.8	3.6	3.6
91-20-3	Naphthalene	1.8	U	0.90	1.8	3.6	3.6
104-51-8	n-Butylbenzene	1.8	U	0.81	1.8	3.6	3.6
103-65-1	n-Propylbenzene	1.8	U	0.81	1.8	3.6	3.6
95-47-6	o-Xylene	0.90	U	0.36	0.90	1.8	1.8
99-87-6	p-Isopropyltoluene	1.8	U	0.90	1.8	3.6	3.6
135-98-8	sec-Butylbenzene	1.8	U	0.81	1.8	3.6	3.6
100-42-5	Styrene	0.90	U	0.27	0.90	1.8	1.8
98-06-6	tert-Butylbenzene	1.8	U	0.81	1.8	3.6	3.6
127-18-4	Tetrachloroethene	0.90	U	0.36	0.90	1.8	1.8
108-88-3	Toluene	0.90	U	0.36	0.90	1.8	1.8
156-60-5	trans-1,2-Dichloroethene	0.90	U	0.36	0.90	1.8	1.8
10061-02-6	trans-1,3-Dichloropropene	0.90	U	0.36	0.90	1.8	1.8
79-01-6	Trichloroethene	0.90	U	0.27	0.90	1.8	1.8
75-69-4	Trichlorofluoromethane	0.90	U	0.45	0.90	1.8	1.8
108-05-4	Vinyl acetate	18	U	11	18	36	36
75-01-4	Vinyl chloride	0.90	U	0.45	0.90	1.8	1.8

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB24-17-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.59 (g/mL)	CTL Sample ID:	840401
% Solids:	89.4	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 15:38	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.85	U	0.25	0.85	1.7	1.7
71-55-6	1,1,1-Trichloroethane	0.85	U	0.25	0.85	1.7	1.7
79-34-5	1,1,2,2-Tetrachloroethane	0.85	U	0.42	0.85	1.7	1.7
79-00-5	1,1,2-Trichloroethane	0.85	U	0.34	0.85	1.7	1.7
75-34-3	1,1-Dichloroethane	0.85	U	0.34	0.85	1.7	1.7
75-35-4	1,1-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
563-58-6	1,1-Dichloropropene	0.85	U	0.34	0.85	1.7	1.7
87-61-6	1,2,3-Trichlorobenzene	1.7	U	0.76	1.7	3.4	3.4
96-18-4	1,2,3-Trichloropropane	0.85	U	0.42	0.85	1.7	1.7
120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.76	1.7	3.4	3.4
95-63-6	1,2,4-Trimethylbenzene	1.7	U	0.68	1.7	3.4	3.4
96-12-8	1,2-Dibromo-3-chloropropane	1.7	U	1.1	1.7	3.4	3.4
106-93-4	1,2-Dibromoethane	0.85	U	0.34	0.85	1.7	1.7
95-50-1	1,2-Dichlorobenzene	1.7	U	0.76	1.7	3.4	3.4
107-06-2	1,2-Dichloroethane	0.85	U	0.42	0.85	1.7	1.7
78-87-5	1,2-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
108-67-8	1,3,5-Trimethylbenzene	1.7	U	0.76	1.7	3.4	3.4
541-73-1	1,3-Dichlorobenzene	1.7	U	0.76	1.7	3.4	3.4
142-28-9	1,3-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	0.76	1.7	3.4	3.4
544-10-5	1-Chlorohexane	0.85	U	0.51	0.85	1.7	1.7
594-20-7	2,2-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
78-93-3	2-Butanone	17	U	8.5	17	34	34
95-49-8	2-Chlorotoluene	1.7	U	0.85	1.7	3.4	3.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB24-17-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.59 (g/mL)	CTL Sample ID:	840401
% Solids:	89.4	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 15:38	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	17	U	9.3	17	34	34
106-43-4	4-Chlorotoluene	1.7	U	0.76	1.7	3.4	3.4
108-10-1	4-Methyl-2-pentanone	17	U	8.5	17	34	34
67-64-1	Acetone	15.5	J	8.5	17	34	34
71-43-2	Benzene	0.85	U	0.25	0.85	1.7	1.7
108-86-1	Bromobenzene	0.85	U	0.42	0.85	1.7	1.7
74-97-5	Bromochloromethane	0.85	U	0.34	0.85	1.7	1.7
75-27-4	Bromodichloromethane	0.85	U	0.34	0.85	1.7	1.7
75-25-2	Bromoform	0.85	U	0.34	0.85	1.7	1.7
74-83-9	Bromomethane	1.7	U	0.59	1.7	3.4	3.4
75-15-0	Carbon disulfide	1.7	U	0.76	1.7	3.4	3.4
56-23-5	Carbon tetrachloride	0.85	U	0.25	0.85	1.7	1.7
108-90-7	Chlorobenzene	0.85	U	0.34	0.85	1.7	1.7
75-00-3	Chloroethane	0.85	U	0.42	0.85	1.7	1.7
67-66-3	Chloroform	0.85	U	0.34	0.85	1.7	1.7
74-87-3	Chloromethane	0.85	U	0.34	0.85	1.7	1.7
156-59-2	cis-1,2-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
10061-01-5	cis-1,3-Dichloropropene	0.85	U	0.25	0.85	1.7	1.7
124-48-1	Dibromochloromethane	0.85	U	0.34	0.85	1.7	1.7
74-95-3	Dibromomethane	0.85	U	0.34	0.85	1.7	1.7
75-71-8	Dichlorodifluoromethane	1.7	U	0.85	1.7	3.4	3.4
100-41-4	Ethylbenzene	0.85	U	0.34	0.85	1.7	1.7
76-13-1	Freon 113	1.7	U	0.85	1.7	3.4	3.4
87-68-3	Hexachlorobutadiene	1.7	U	0.85	1.7	3.4	3.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB24-17-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.59 (g/mL)	CTL Sample ID:	840401
% Solids:	89.4	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 15:38	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.7	U	0.25	1.7	3.4	3.4
98-82-8	Isopropylbenzene	0.85	U	0.25	0.85	1.7	1.7
179601-23-1	m & p-Xylene	1.7	U	0.59	1.7	3.4	3.4
1634-04-4	Methyl tert-butyl ether	0.85	U	0.34	0.85	1.7	1.7
75-09-2	Methylene chloride	1.7	U	1.4	1.7	3.4	3.4
91-20-3	Naphthalene	1.7	U	0.85	1.7	3.4	3.4
104-51-8	n-Butylbenzene	1.7	U	0.76	1.7	3.4	3.4
103-65-1	n-Propylbenzene	1.7	U	0.76	1.7	3.4	3.4
95-47-6	o-Xylene	0.85	U	0.34	0.85	1.7	1.7
99-87-6	p-Isopropyltoluene	1.7	U	0.85	1.7	3.4	3.4
135-98-8	sec-Butylbenzene	1.7	U	0.76	1.7	3.4	3.4
100-42-5	Styrene	0.85	U	0.25	0.85	1.7	1.7
98-06-6	tert-Butylbenzene	1.7	U	0.76	1.7	3.4	3.4
127-18-4	Tetrachloroethene	0.85	U	0.34	0.85	1.7	1.7
108-88-3	Toluene	0.85	U	0.34	0.85	1.7	1.7
156-60-5	trans-1,2-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
10061-02-6	trans-1,3-Dichloropropene	0.85	U	0.34	0.85	1.7	1.7
79-01-6	Trichloroethene	0.85	U	0.25	0.85	1.7	1.7
75-69-4	Trichlorofluoromethane	0.85	U	0.42	0.85	1.7	1.7
108-05-4	Vinyl acetate	17	U	10	17	34	34
75-01-4	Vinyl chloride	0.85	U	0.42	0.85	1.7	1.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB25-5-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.99 (g/mL)	CTL Sample ID:	840402
% Solids:	81.5	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 16:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.31	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	1.0	U	0.31	1.0	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.51	1.0	2.0	2.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.41	1.0	2.0	2.0
75-34-3	1,1-Dichloroethane	1.0	U	0.41	1.0	2.0	2.0
75-35-4	1,1-Dichloroethene	1.0	U	0.41	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	1.0	U	0.41	1.0	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.92	2.0	4.1	4.1
96-18-4	1,2,3-Trichloropropane	1.0	U	0.51	1.0	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.92	2.0	4.1	4.1
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.82	2.0	4.1	4.1
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	4.1	4.1
106-93-4	1,2-Dibromoethane	1.0	U	0.41	1.0	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.92	2.0	4.1	4.1
107-06-2	1,2-Dichloroethane	1.0	U	0.51	1.0	2.0	2.0
78-87-5	1,2-Dichloropropane	1.0	U	0.41	1.0	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.92	2.0	4.1	4.1
541-73-1	1,3-Dichlorobenzene	2.0	U	0.92	2.0	4.1	4.1
142-28-9	1,3-Dichloropropane	1.0	U	0.41	1.0	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.92	2.0	4.1	4.1
544-10-5	1-Chlorohexane	1.0	U	0.61	1.0	2.0	2.0
594-20-7	2,2-Dichloropropane	1.0	U	0.41	1.0	2.0	2.0
78-93-3	2-Butanone	20	U	10	20	41	41
95-49-8	2-Chlorotoluene	2.0	U	1.0	2.0	4.1	4.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB25-5-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.99 (g/mL)	CTL Sample ID:	840402
% Solids:	81.5	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 16:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	20	U	11	20	41	41
106-43-4	4-Chlorotoluene	2.0	U	0.92	2.0	4.1	4.1
108-10-1	4-Methyl-2-pentanone	20	U	10	20	41	41
67-64-1	Acetone	58.3		10	20	41	41
71-43-2	Benzene	0.410	J	0.31	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.51	1.0	2.0	2.0
74-97-5	Bromochloromethane	1.0	U	0.41	1.0	2.0	2.0
75-27-4	Bromodichloromethane	1.0	U	0.41	1.0	2.0	2.0
75-25-2	Bromoform	1.0	U	0.41	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.72	2.0	4.1	4.1
75-15-0	Carbon disulfide	2.0	U	0.92	2.0	4.1	4.1
56-23-5	Carbon tetrachloride	1.0	U	0.31	1.0	2.0	2.0
108-90-7	Chlorobenzene	1.0	U	0.41	1.0	2.0	2.0
75-00-3	Chloroethane	1.0	U	0.51	1.0	2.0	2.0
67-66-3	Chloroform	1.0	U	0.41	1.0	2.0	2.0
74-87-3	Chloromethane	1.0	U	0.41	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	0.41	1.0	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.31	1.0	2.0	2.0
124-48-1	Dibromochloromethane	1.0	U	0.41	1.0	2.0	2.0
74-95-3	Dibromomethane	1.0	U	0.41	1.0	2.0	2.0
75-71-8	Dichlorodifluoromethane	2.0	U	1.0	2.0	4.1	4.1
100-41-4	Ethylbenzene	1.0	U	0.41	1.0	2.0	2.0
76-13-1	Freon 113	2.0	U	1.0	2.0	4.1	4.1
87-68-3	Hexachlorobutadiene	2.0	U	1.0	2.0	4.1	4.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB25-5-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.99 (g/mL)	CTL Sample ID:	840402
% Solids:	81.5	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 16:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	2.25	J	0.31	2.0	4.1	4.1
98-82-8	Isopropylbenzene	1.0	U	0.31	1.0	2.0	2.0
179601-23-1	m & p-Xylene	2.0	U	0.72	2.0	4.1	4.1
1634-04-4	Methyl tert-butyl ether	1.0	U	0.41	1.0	2.0	2.0
75-09-2	Methylene chloride	2.0	U	1.7	2.0	4.1	4.1
91-20-3	Naphthalene	2.0	U	1.0	2.0	4.1	4.1
104-51-8	n-Butylbenzene	2.0	U	0.92	2.0	4.1	4.1
103-65-1	n-Propylbenzene	2.0	U	0.92	2.0	4.1	4.1
95-47-6	o-Xylene	1.0	U	0.41	1.0	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	1.0	2.0	4.1	4.1
135-98-8	sec-Butylbenzene	2.0	U	0.92	2.0	4.1	4.1
100-42-5	Styrene	1.0	U	0.31	1.0	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.92	2.0	4.1	4.1
127-18-4	Tetrachloroethene	1.0	U	0.41	1.0	2.0	2.0
108-88-3	Toluene	1.0	U	0.41	1.0	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.41	1.0	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.41	1.0	2.0	2.0
79-01-6	Trichloroethene	1.0	U	0.31	1.0	2.0	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.51	1.0	2.0	2.0
108-05-4	Vinyl acetate	20	U	12	20	41	41
75-01-4	Vinyl chloride	1.0	U	0.51	1.0	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB26-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.86 (g/mL)	CTL Sample ID:	840403
% Solids:	86.2	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 16:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.99	U	0.30	0.99	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.99	U	0.30	0.99	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.99	U	0.49	0.99	2.0	2.0
79-00-5	1,1,2-Trichloroethane	0.99	U	0.40	0.99	2.0	2.0
75-34-3	1,1-Dichloroethane	0.99	U	0.40	0.99	2.0	2.0
75-35-4	1,1-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
563-58-6	1,1-Dichloropropene	0.99	U	0.40	0.99	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
96-18-4	1,2,3-Trichloropropane	0.99	U	0.49	0.99	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.79	2.0	4.0	4.0
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	4.0	4.0
106-93-4	1,2-Dibromoethane	0.99	U	0.40	0.99	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
107-06-2	1,2-Dichloroethane	0.99	U	0.49	0.99	2.0	2.0
78-87-5	1,2-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.89	2.0	4.0	4.0
541-73-1	1,3-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
142-28-9	1,3-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
544-10-5	1-Chlorohexane	0.99	U	0.59	0.99	2.0	2.0
594-20-7	2,2-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
78-93-3	2-Butanone	20	U	9.9	20	40	40
95-49-8	2-Chlorotoluene	2.0	U	0.99	2.0	4.0	4.0

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB26-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.86 (g/mL)	CTL Sample ID:	840403
% Solids:	86.2	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 16:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	20	U	11	20	40	40
106-43-4	4-Chlorotoluene	2.0	U	0.89	2.0	4.0	4.0
108-10-1	4-Methyl-2-pentanone	20	U	9.9	20	40	40
67-64-1	Acetone	33.5	J	9.9	20	40	40
71-43-2	Benzene	0.99	U	0.30	0.99	2.0	2.0
108-86-1	Bromobenzene	0.99	U	0.49	0.99	2.0	2.0
74-97-5	Bromochloromethane	0.99	U	0.40	0.99	2.0	2.0
75-27-4	Bromodichloromethane	0.99	U	0.40	0.99	2.0	2.0
75-25-2	Bromoform	0.99	U	0.40	0.99	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.69	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.89	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.99	U	0.30	0.99	2.0	2.0
108-90-7	Chlorobenzene	0.99	U	0.40	0.99	2.0	2.0
75-00-3	Chloroethane	0.99	U	0.49	0.99	2.0	2.0
67-66-3	Chloroform	0.99	U	0.40	0.99	2.0	2.0
74-87-3	Chloromethane	0.99	U	0.40	0.99	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	0.99	U	0.30	0.99	2.0	2.0
124-48-1	Dibromochloromethane	0.99	U	0.40	0.99	2.0	2.0
74-95-3	Dibromomethane	0.99	U	0.40	0.99	2.0	2.0
75-71-8	Dichlorodifluoromethane	2.0	U	0.99	2.0	4.0	4.0
100-41-4	Ethylbenzene	0.99	U	0.40	0.99	2.0	2.0
76-13-1	Freon 113	2.0	U	0.99	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	2.0	U	0.99	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB26-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.86 (g/mL)	CTL Sample ID:	840403
% Solids:	86.2	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 16:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.88	J	0.30	2.0	4.0	4.0
98-82-8	Isopropylbenzene	0.99	U	0.30	0.99	2.0	2.0
179601-23-1	m & p-Xylene	2.0	U	0.69	2.0	4.0	4.0
1634-04-4	Methyl tert-butyl ether	0.99	U	0.40	0.99	2.0	2.0
75-09-2	Methylene chloride	2.0	U	1.7	2.0	4.0	4.0
91-20-3	Naphthalene	2.0	U	0.99	2.0	4.0	4.0
104-51-8	n-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
103-65-1	n-Propylbenzene	2.0	U	0.89	2.0	4.0	4.0
95-47-6	o-Xylene	0.99	U	0.40	0.99	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	0.99	2.0	4.0	4.0
135-98-8	sec-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
100-42-5	Styrene	0.99	U	0.30	0.99	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
127-18-4	Tetrachloroethene	0.99	U	0.40	0.99	2.0	2.0
108-88-3	Toluene	0.990	J	0.40	0.99	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	0.99	U	0.40	0.99	2.0	2.0
79-01-6	Trichloroethene	0.99	U	0.30	0.99	2.0	2.0
75-69-4	Trichlorofluoromethane	0.99	U	0.49	0.99	2.0	2.0
108-05-4	Vinyl acetate	20	U	12	20	40	40
75-01-4	Vinyl chloride	0.99	U	0.49	0.99	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB37-11-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.72 (g/mL)	CTL Sample ID:	840397
% Solids:	84.7	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 14:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.88	U	0.26	0.88	1.8	1.8
71-55-6	1,1,1-Trichloroethane	0.88	U	0.26	0.88	1.8	1.8
79-34-5	1,1,2,2-Tetrachloroethane	0.88	U	0.44	0.88	1.8	1.8
79-00-5	1,1,2-Trichloroethane	0.88	U	0.35	0.88	1.8	1.8
75-34-3	1,1-Dichloroethane	0.88	U	0.35	0.88	1.8	1.8
75-35-4	1,1-Dichloroethene	0.88	U	0.35	0.88	1.8	1.8
563-58-6	1,1-Dichloropropene	0.88	U	0.35	0.88	1.8	1.8
87-61-6	1,2,3-Trichlorobenzene	1.8	U	0.79	1.8	3.5	3.5
96-18-4	1,2,3-Trichloropropane	0.88	U	0.44	0.88	1.8	1.8
120-82-1	1,2,4-Trichlorobenzene	1.8	U	0.79	1.8	3.5	3.5
95-63-6	1,2,4-Trimethylbenzene	1.8	U	0.70	1.8	3.5	3.5
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U	1.1	1.8	3.5	3.5
106-93-4	1,2-Dibromoethane	0.88	U	0.35	0.88	1.8	1.8
95-50-1	1,2-Dichlorobenzene	1.8	U	0.79	1.8	3.5	3.5
107-06-2	1,2-Dichloroethane	0.88	U	0.44	0.88	1.8	1.8
78-87-5	1,2-Dichloropropane	0.88	U	0.35	0.88	1.8	1.8
108-67-8	1,3,5-Trimethylbenzene	1.8	U	0.79	1.8	3.5	3.5
541-73-1	1,3-Dichlorobenzene	1.8	U	0.79	1.8	3.5	3.5
142-28-9	1,3-Dichloropropane	0.88	U	0.35	0.88	1.8	1.8
106-46-7	1,4-Dichlorobenzene	1.8	U	0.79	1.8	3.5	3.5
544-10-5	1-Chlorohexane	0.88	U	0.53	0.88	1.8	1.8
594-20-7	2,2-Dichloropropane	0.88	U	0.35	0.88	1.8	1.8
78-93-3	2-Butanone	18	U	8.8	18	35	35
95-49-8	2-Chlorotoluene	1.8	U	0.88	1.8	3.5	3.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB37-11-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.72 (g/mL)	CTL Sample ID:	840397
% Solids:	84.7	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 14:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	18	U	9.7	18	35	35
106-43-4	4-Chlorotoluene	1.8	U	0.79	1.8	3.5	3.5
108-10-1	4-Methyl-2-pentanone	18	U	8.8	18	35	35
67-64-1	Acetone	18	U	8.8	18	35	35
71-43-2	Benzene	0.88	U	0.26	0.88	1.8	1.8
108-86-1	Bromobenzene	0.88	U	0.44	0.88	1.8	1.8
74-97-5	Bromochloromethane	0.88	U	0.35	0.88	1.8	1.8
75-27-4	Bromodichloromethane	0.88	U	0.35	0.88	1.8	1.8
75-25-2	Bromoform	0.88	U	0.35	0.88	1.8	1.8
74-83-9	Bromomethane	1.8	U	0.61	1.8	3.5	3.5
75-15-0	Carbon disulfide	1.8	U	0.79	1.8	3.5	3.5
56-23-5	Carbon tetrachloride	0.88	U	0.26	0.88	1.8	1.8
108-90-7	Chlorobenzene	0.88	U	0.35	0.88	1.8	1.8
75-00-3	Chloroethane	0.88	U	0.44	0.88	1.8	1.8
67-66-3	Chloroform	0.88	U	0.35	0.88	1.8	1.8
74-87-3	Chloromethane	0.88	U	0.35	0.88	1.8	1.8
156-59-2	cis-1,2-Dichloroethene	0.88	U	0.35	0.88	1.8	1.8
10061-01-5	cis-1,3-Dichloropropene	0.88	U	0.26	0.88	1.8	1.8
124-48-1	Dibromochloromethane	0.88	U	0.35	0.88	1.8	1.8
74-95-3	Dibromomethane	0.88	U	0.35	0.88	1.8	1.8
75-71-8	Dichlorodifluoromethane	1.8	U	0.88	1.8	3.5	3.5
100-41-4	Ethylbenzene	0.88	U	0.35	0.88	1.8	1.8
76-13-1	Freon 113	1.8	U	0.88	1.8	3.5	3.5
87-68-3	Hexachlorobutadiene	1.8	U	0.88	1.8	3.5	3.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB37-11-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.72 (g/mL)	CTL Sample ID:	840397
% Solids:	84.7	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 14:12	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.8	U	0.26	1.8	3.5	3.5
98-82-8	Isopropylbenzene	0.88	U	0.26	0.88	1.8	1.8
179601-23-1	m & p-Xylene	1.8	U	0.61	1.8	3.5	3.5
1634-04-4	Methyl tert-butyl ether	0.88	U	0.35	0.88	1.8	1.8
75-09-2	Methylene chloride	1.8	U	1.5	1.8	3.5	3.5
91-20-3	Naphthalene	1.8	U	0.88	1.8	3.5	3.5
104-51-8	n-Butylbenzene	1.8	U	0.79	1.8	3.5	3.5
103-65-1	n-Propylbenzene	1.8	U	0.79	1.8	3.5	3.5
95-47-6	o-Xylene	0.88	U	0.35	0.88	1.8	1.8
99-87-6	p-Isopropyltoluene	1.8	U	0.88	1.8	3.5	3.5
135-98-8	sec-Butylbenzene	1.8	U	0.79	1.8	3.5	3.5
100-42-5	Styrene	0.88	U	0.26	0.88	1.8	1.8
98-06-6	tert-Butylbenzene	1.8	U	0.79	1.8	3.5	3.5
127-18-4	Tetrachloroethene	0.88	U	0.35	0.88	1.8	1.8
108-88-3	Toluene	0.527	J	0.35	0.88	1.8	1.8
156-60-5	trans-1,2-Dichloroethene	0.88	U	0.35	0.88	1.8	1.8
10061-02-6	trans-1,3-Dichloropropene	0.88	U	0.35	0.88	1.8	1.8
79-01-6	Trichloroethene	0.88	U	0.26	0.88	1.8	1.8
75-69-4	Trichlorofluoromethane	0.88	U	0.44	0.88	1.8	1.8
108-05-4	Vinyl acetate	18	U	11	18	35	35
75-01-4	Vinyl chloride	0.88	U	0.44	0.88	1.8	1.8

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB38-15-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.22 (g/mL)	CTL Sample ID:	840395
% Solids:	81.2	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 13:15	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.99	U	0.30	0.99	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.99	U	0.30	0.99	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.99	U	0.49	0.99	2.0	2.0
79-00-5	1,1,2-Trichloroethane	0.99	U	0.40	0.99	2.0	2.0
75-34-3	1,1-Dichloroethane	0.99	U	0.40	0.99	2.0	2.0
75-35-4	1,1-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
563-58-6	1,1-Dichloropropene	0.99	U	0.40	0.99	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
96-18-4	1,2,3-Trichloropropane	0.99	U	0.49	0.99	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.79	2.0	4.0	4.0
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	4.0	4.0
106-93-4	1,2-Dibromoethane	0.99	U	0.40	0.99	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
107-06-2	1,2-Dichloroethane	0.99	U	0.49	0.99	2.0	2.0
78-87-5	1,2-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.89	2.0	4.0	4.0
541-73-1	1,3-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
142-28-9	1,3-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
544-10-5	1-Chlorohexane	0.99	U	0.59	0.99	2.0	2.0
594-20-7	2,2-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
78-93-3	2-Butanone	20	U	9.9	20	40	40
95-49-8	2-Chlorotoluene	2.0	U	0.99	2.0	4.0	4.0

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB38-15-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.22 (g/mL)	CTL Sample ID:	840395
% Solids:	81.2	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 13:15	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	20	U	11	20	40	40
106-43-4	4-Chlorotoluene	2.0	U	0.89	2.0	4.0	4.0
108-10-1	4-Methyl-2-pentanone	20	U	9.9	20	40	40
67-64-1	Acetone	30.7	J	9.9	20	40	40
71-43-2	Benzene	0.99	U	0.30	0.99	2.0	2.0
108-86-1	Bromobenzene	0.99	U	0.49	0.99	2.0	2.0
74-97-5	Bromochloromethane	0.99	U	0.40	0.99	2.0	2.0
75-27-4	Bromodichloromethane	0.99	U	0.40	0.99	2.0	2.0
75-25-2	Bromoform	0.99	U	0.40	0.99	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.69	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.89	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.99	U	0.30	0.99	2.0	2.0
108-90-7	Chlorobenzene	0.99	U	0.40	0.99	2.0	2.0
75-00-3	Chloroethane	0.99	U	0.49	0.99	2.0	2.0
67-66-3	Chloroform	0.99	U	0.40	0.99	2.0	2.0
74-87-3	Chloromethane	0.99	U	0.40	0.99	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	0.99	U	0.30	0.99	2.0	2.0
124-48-1	Dibromochloromethane	0.99	U	0.40	0.99	2.0	2.0
74-95-3	Dibromomethane	0.99	U	0.40	0.99	2.0	2.0
75-71-8	Dichlorodifluoromethane	2.0	U	0.99	2.0	4.0	4.0
100-41-4	Ethylbenzene	0.99	U	0.40	0.99	2.0	2.0
76-13-1	Freon 113	2.0	U	0.99	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	2.0	U	0.99	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB38-15-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.22 (g/mL)	CTL Sample ID:	840395
% Solids:	81.2	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 13:15	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	2.0	U	0.30	2.0	4.0	4.0
98-82-8	Isopropylbenzene	0.99	U	0.30	0.99	2.0	2.0
179601-23-1	m & p-Xylene	2.0	U	0.69	2.0	4.0	4.0
1634-04-4	Methyl tert-butyl ether	0.99	U	0.40	0.99	2.0	2.0
75-09-2	Methylene chloride	2.0	U	1.7	2.0	4.0	4.0
91-20-3	Naphthalene	2.0	U	0.99	2.0	4.0	4.0
104-51-8	n-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
103-65-1	n-Propylbenzene	2.0	U	0.89	2.0	4.0	4.0
95-47-6	o-Xylene	0.99	U	0.40	0.99	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	0.99	2.0	4.0	4.0
135-98-8	sec-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
100-42-5	Styrene	0.99	U	0.30	0.99	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
127-18-4	Tetrachloroethene	0.792	J	0.40	0.99	2.0	2.0
108-88-3	Toluene	0.99	U	0.40	0.99	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	0.99	U	0.40	0.99	2.0	2.0
79-01-6	Trichloroethene	0.99	U	0.30	0.99	2.0	2.0
75-69-4	Trichlorofluoromethane	0.99	U	0.49	0.99	2.0	2.0
108-05-4	Vinyl acetate	20	U	12	20	40	40
75-01-4	Vinyl chloride	0.99	U	0.49	0.99	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB44-11-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.47 (g/mL)	CTL Sample ID:	840396
% Solids:	80.9	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 13:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.96	U	0.29	0.96	1.9	1.9
71-55-6	1,1,1-Trichloroethane	0.96	U	0.29	0.96	1.9	1.9
79-34-5	1,1,2,2-Tetrachloroethane	0.96	U	0.48	0.96	1.9	1.9
79-00-5	1,1,2-Trichloroethane	0.96	U	0.38	0.96	1.9	1.9
75-34-3	1,1-Dichloroethane	0.96	U	0.38	0.96	1.9	1.9
75-35-4	1,1-Dichloroethene	0.96	U	0.38	0.96	1.9	1.9
563-58-6	1,1-Dichloropropene	0.96	U	0.38	0.96	1.9	1.9
87-61-6	1,2,3-Trichlorobenzene	1.9	U	0.86	1.9	3.8	3.8
96-18-4	1,2,3-Trichloropropane	0.96	U	0.48	0.96	1.9	1.9
120-82-1	1,2,4-Trichlorobenzene	1.9	U	0.86	1.9	3.8	3.8
95-63-6	1,2,4-Trimethylbenzene	1.9	U	0.76	1.9	3.8	3.8
96-12-8	1,2-Dibromo-3-chloropropane	1.9	U	1.2	1.9	3.8	3.8
106-93-4	1,2-Dibromoethane	0.96	U	0.38	0.96	1.9	1.9
95-50-1	1,2-Dichlorobenzene	1.9	U	0.86	1.9	3.8	3.8
107-06-2	1,2-Dichloroethane	0.96	U	0.48	0.96	1.9	1.9
78-87-5	1,2-Dichloropropane	0.96	U	0.38	0.96	1.9	1.9
108-67-8	1,3,5-Trimethylbenzene	1.9	U	0.86	1.9	3.8	3.8
541-73-1	1,3-Dichlorobenzene	1.9	U	0.86	1.9	3.8	3.8
142-28-9	1,3-Dichloropropane	0.96	U	0.38	0.96	1.9	1.9
106-46-7	1,4-Dichlorobenzene	1.9	U	0.86	1.9	3.8	3.8
544-10-5	1-Chlorohexane	0.96	U	0.57	0.96	1.9	1.9
594-20-7	2,2-Dichloropropane	0.96	U	0.38	0.96	1.9	1.9
78-93-3	2-Butanone	19	U	9.6	19	38	38
95-49-8	2-Chlorotoluene	1.9	U	0.96	1.9	3.8	3.8

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB44-11-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.47 (g/mL)	CTL Sample ID:	840396
% Solids:	80.9	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 13:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	19	U	11	19	38	38
106-43-4	4-Chlorotoluene	1.9	U	0.86	1.9	3.8	3.8
108-10-1	4-Methyl-2-pentanone	19	U	9.6	19	38	38
67-64-1	Acetone	30.8	J	9.6	19	38	38
71-43-2	Benzene	0.96	U	0.29	0.96	1.9	1.9
108-86-1	Bromobenzene	0.96	U	0.48	0.96	1.9	1.9
74-97-5	Bromochloromethane	0.96	U	0.38	0.96	1.9	1.9
75-27-4	Bromodichloromethane	0.96	U	0.38	0.96	1.9	1.9
75-25-2	Bromoform	0.96	U	0.38	0.96	1.9	1.9
74-83-9	Bromomethane	1.9	U	0.67	1.9	3.8	3.8
75-15-0	Carbon disulfide	1.9	U	0.86	1.9	3.8	3.8
56-23-5	Carbon tetrachloride	0.96	U	0.29	0.96	1.9	1.9
108-90-7	Chlorobenzene	0.96	U	0.38	0.96	1.9	1.9
75-00-3	Chloroethane	0.96	U	0.48	0.96	1.9	1.9
67-66-3	Chloroform	0.96	U	0.38	0.96	1.9	1.9
74-87-3	Chloromethane	0.382	J	0.38	0.96	1.9	1.9
156-59-2	cis-1,2-Dichloroethene	0.96	U	0.38	0.96	1.9	1.9
10061-01-5	cis-1,3-Dichloropropene	0.96	U	0.29	0.96	1.9	1.9
124-48-1	Dibromochloromethane	0.96	U	0.38	0.96	1.9	1.9
74-95-3	Dibromomethane	0.96	U	0.38	0.96	1.9	1.9
75-71-8	Dichlorodifluoromethane	1.9	U	0.96	1.9	3.8	3.8
100-41-4	Ethylbenzene	0.96	U	0.38	0.96	1.9	1.9
76-13-1	Freon 113	1.9	U	0.96	1.9	3.8	3.8
87-68-3	Hexachlorobutadiene	1.9	U	0.96	1.9	3.8	3.8

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB44-11-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	6.47 (g/mL)	CTL Sample ID:	840396
% Solids:	80.9	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 13:43	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.9	U	0.29	1.9	3.8	3.8
98-82-8	Isopropylbenzene	0.96	U	0.29	0.96	1.9	1.9
179601-23-1	m & p-Xylene	1.9	U	0.67	1.9	3.8	3.8
1634-04-4	Methyl tert-butyl ether	0.96	U	0.38	0.96	1.9	1.9
75-09-2	Methylene chloride	1.9	U	1.6	1.9	3.8	3.8
91-20-3	Naphthalene	1.9	U	0.96	1.9	3.8	3.8
104-51-8	n-Butylbenzene	1.9	U	0.86	1.9	3.8	3.8
103-65-1	n-Propylbenzene	1.9	U	0.86	1.9	3.8	3.8
95-47-6	o-Xylene	0.96	U	0.38	0.96	1.9	1.9
99-87-6	p-Isopropyltoluene	1.9	U	0.96	1.9	3.8	3.8
135-98-8	sec-Butylbenzene	1.9	U	0.86	1.9	3.8	3.8
100-42-5	Styrene	0.96	U	0.29	0.96	1.9	1.9
98-06-6	tert-Butylbenzene	1.9	U	0.86	1.9	3.8	3.8
127-18-4	Tetrachloroethene	0.96	U	0.38	0.96	1.9	1.9
108-88-3	Toluene	0.573	J	0.38	0.96	1.9	1.9
156-60-5	trans-1,2-Dichloroethene	0.96	U	0.38	0.96	1.9	1.9
10061-02-6	trans-1,3-Dichloropropene	0.96	U	0.38	0.96	1.9	1.9
79-01-6	Trichloroethene	0.96	U	0.29	0.96	1.9	1.9
75-69-4	Trichlorofluoromethane	0.96	U	0.48	0.96	1.9	1.9
108-05-4	Vinyl acetate	19	U	11	19	38	38
75-01-4	Vinyl chloride	0.96	U	0.48	0.96	1.9	1.9

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB47-18-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.65 (g/mL)	CTL Sample ID:	840394
% Solids:	88.7	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 12:47	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	1.0	U	0.30	1.0	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	2.0	2.0
79-00-5	1,1,2-Trichloroethane	1.0	U M	0.40	1.0	2.0	2.0
75-34-3	1,1-Dichloroethane	1.0	U	0.40	1.0	2.0	2.0
75-35-4	1,1-Dichloroethene	1.0	U M	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	1.0	U M	0.40	1.0	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
96-18-4	1,2,3-Trichloropropane	1.0	U M	0.50	1.0	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.80	2.0	4.0	4.0
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	4.0	4.0
106-93-4	1,2-Dibromoethane	1.0	U M	0.40	1.0	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
107-06-2	1,2-Dichloroethane	1.0	U	0.50	1.0	2.0	2.0
78-87-5	1,2-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.90	2.0	4.0	4.0
541-73-1	1,3-Dichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
142-28-9	1,3-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
544-10-5	1-Chlorohexane	1.0	U	0.60	1.0	2.0	2.0
594-20-7	2,2-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
78-93-3	2-Butanone	20	U	10	20	40	40
95-49-8	2-Chlorotoluene	2.0	U	1.0	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB47-18-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.65 (g/mL)	CTL Sample ID:	840394
% Solids:	88.7	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 12:47	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	20	U	11	20	40	40
106-43-4	4-Chlorotoluene	2.0	U	0.90	2.0	4.0	4.0
108-10-1	4-Methyl-2-pentanone	20	U M	10	20	40	40
67-64-1	Acetone	18.2	J	10	20	40	40
71-43-2	Benzene	1.0	U M	0.30	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.50	1.0	2.0	2.0
74-97-5	Bromochloromethane	1.0	U	0.40	1.0	2.0	2.0
75-27-4	Bromodichloromethane	1.0	U	0.40	1.0	2.0	2.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.70	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.90	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	1.0	U	0.30	1.0	2.0	2.0
108-90-7	Chlorobenzene	1.0	U M	0.40	1.0	2.0	2.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	1.0	U M	0.40	1.0	2.0	2.0
74-87-3	Chloromethane	1.0	U	0.40	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.30	1.0	2.0	2.0
124-48-1	Dibromochloromethane	1.0	U	0.40	1.0	2.0	2.0
74-95-3	Dibromomethane	1.0	U	0.40	1.0	2.0	2.0
75-71-8	Dichlorodifluoromethane	2.0	U	1.0	2.0	4.0	4.0
100-41-4	Ethylbenzene	1.0	U M	0.40	1.0	2.0	2.0
76-13-1	Freon 113	2.0	U M	1.0	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	2.0	U	1.0	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB47-18-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	SOIL	SDG No.:	125865
Sample wt/vol:	5.65 (g/mL)	CTL Sample ID:	840394
% Solids:	88.7	Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Date & Time Analyzed:	03/14/2017 / 12:47	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	2.0	U	0.30	2.0	4.0	4.0
98-82-8	Isopropylbenzene	1.0	U	0.30	1.0	2.0	2.0
179601-23-1	m & p-Xylene	2.0	U	0.70	2.0	4.0	4.0
1634-04-4	Methyl tert-butyl ether	1.0	U M	0.40	1.0	2.0	2.0
75-09-2	Methylene chloride	2.0	U M	1.7	2.0	4.0	4.0
91-20-3	Naphthalene	2.0	U	1.0	2.0	4.0	4.0
104-51-8	n-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
103-65-1	n-Propylbenzene	2.0	U	0.90	2.0	4.0	4.0
95-47-6	o-Xylene	1.0	U	0.40	1.0	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	1.0	2.0	4.0	4.0
135-98-8	sec-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
100-42-5	Styrene	1.0	U M,Y	0.30	1.0	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
127-18-4	Tetrachloroethene	1.0	U M	0.40	1.0	2.0	2.0
108-88-3	Toluene	1.10	J	0.40	1.0	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	1.0	U M	0.40	1.0	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.40	1.0	2.0	2.0
79-01-6	Trichloroethene	1.0	U M	0.30	1.0	2.0	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.50	1.0	2.0	2.0
108-05-4	Vinyl acetate	20	U M,Y	12	20	40	40
75-01-4	Vinyl chloride	1.0	U	0.50	1.0	2.0	2.0

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

RB-01

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	GROUND WATER	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840398
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 10:54	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.020	U	0.011	0.020	0.10	0.10
71-55-6	1,1,1-Trichloroethane	0.020	U	0.0090	0.020	0.10	0.10
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	0.017	0.050	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.050	U	0.015	0.050	0.10	0.10
75-34-3	1,1-Dichloroethane	0.050	U	0.021	0.050	0.10	0.10
75-35-4	1,1-Dichloroethene	0.10	U	0.040	0.10	0.20	0.20
563-58-6	1,1-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
87-61-6	1,2,3-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
96-18-4	1,2,3-Trichloropropane	0.050	U Y	0.027	0.050	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.050	U	0.029	0.050	0.10	0.10
96-12-8	1,2-Dibromo-3-chloropropane	0.10	U	0.070	0.10	0.20	0.20
106-93-4	1,2-Dibromoethane	0.050	U	0.015	0.050	0.10	0.10
95-50-1	1,2-Dichlorobenzene	0.050	U	0.025	0.050	0.10	0.10
107-06-2	1,2-Dichloroethane	0.050	U	0.015	0.050	0.10	0.10
78-87-5	1,2-Dichloropropane	0.020	U	0.012	0.020	0.10	0.10
108-67-8	1,3,5-Trimethylbenzene	0.050	U	0.024	0.050	0.10	0.10
541-73-1	1,3-Dichlorobenzene	0.050	U	0.030	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	0.030	0.050	0.10	0.10
544-10-5	1-Chlorohexane	0.10	U	0.040	0.10	0.20	0.20
594-20-7	2,2-Dichloropropane	0.050	U	0.019	0.050	0.10	0.10
78-93-3	2-Butanone	1.0	U	0.50	1.0	2.0	2.0
95-49-8	2-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

RB-01

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	GROUND WATER	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840398
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 10:54	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	0.20	U	0.12	0.20	1.0	1.0
106-43-4	4-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10
108-10-1	4-Methyl-2-pentanone	0.50	U	0.18	0.50	1.0	1.0
67-64-1	Acetone	1.0	U	0.90	1.0	2.0	2.0
71-43-2	Benzene	0.014	J	0.0080	0.020	0.10	0.10
108-86-1	Bromobenzene	0.050	U	0.026	0.050	0.10	0.10
74-97-5	Bromochloromethane	0.050	U	0.030	0.050	0.10	0.10
75-27-4	Bromodichloromethane	0.050	U	0.016	0.050	0.10	0.10
75-25-2	Bromoform	0.050	U	0.019	0.050	0.10	0.10
74-83-9	Bromomethane	0.10	U	0.038	0.10	0.20	0.20
75-15-0	Carbon disulfide	0.20	U	0.070	0.20	0.40	0.40
56-23-5	Carbon tetrachloride	0.050	U	0.018	0.050	0.10	0.10
108-90-7	Chlorobenzene	0.050	U	0.030	0.050	0.10	0.10
75-00-3	Chloroethane	0.10	U	0.070	0.10	0.20	0.20
67-66-3	Chloroform	0.020	U	0.010	0.020	0.10	0.10
74-87-3	Chloromethane	0.027	J B	0.026	0.050	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.050	U	0.022	0.050	0.10	0.10
10061-01-5	cis-1,3-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
124-48-1	Dibromochloromethane	0.050	U	0.018	0.050	0.10	0.10
74-95-3	Dibromomethane	0.020	U	0.010	0.020	0.10	0.10
75-71-8	Dichlorodifluoromethane	0.020	U	0.013	0.020	0.10	0.10
100-41-4	Ethylbenzene	0.050	U	0.027	0.050	0.10	0.10
76-13-1	Freon 113	0.10	U	0.050	0.10	0.20	0.20
87-68-3	Hexachlorobutadiene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

RB-01

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	GROUND WATER	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840398
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 10:54	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.20	U Y	0.080	0.20	0.40	0.40
98-82-8	Isopropylbenzene	0.050	U	0.026	0.050	0.10	0.10
179601-23-1	m & p-Xylene	0.10	U	0.060	0.10	0.20	0.20
1634-04-4	Methyl tert-butyl ether	0.050	U	0.025	0.050	0.10	0.10
75-09-2	Methylene chloride	0.20	U	0.060	0.20	1.0	1.0
91-20-3	Naphthalene	0.10	U	0.040	0.10	0.20	0.20
104-51-8	n-Butylbenzene	0.050	U	0.027	0.050	0.10	0.10
103-65-1	n-Propylbenzene	0.050	U	0.030	0.050	0.10	0.10
95-47-6	o-Xylene	0.050	U	0.026	0.050	0.10	0.10
99-87-6	p-Isopropyltoluene	0.050	U	0.025	0.050	0.10	0.10
135-98-8	sec-Butylbenzene	0.050	U	0.024	0.050	0.10	0.10
100-42-5	Styrene	0.050	U	0.024	0.050	0.10	0.10
98-06-6	tert-Butylbenzene	0.050	U	0.026	0.050	0.10	0.10
127-18-4	Tetrachloroethene	0.020	U	0.010	0.020	0.10	0.10
108-88-3	Toluene	0.85		0.011	0.020	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	0.050	U	0.026	0.050	0.10	0.10
10061-02-6	trans-1,3-Dichloropropene	0.050	U	0.014	0.050	0.10	0.10
79-01-6	Trichloroethene	0.050	U	0.020	0.050	0.10	0.10
75-69-4	Trichlorofluoromethane	0.050	U	0.022	0.050	0.20	0.20
108-05-4	Vinyl acetate	0.50	U	0.25	0.50	1.0	1.0
75-01-4	Vinyl chloride	0.050	U	0.019	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

RB-02

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	GROUND WATER	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840416
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 11:22	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.020	U	0.011	0.020	0.10	0.10
71-55-6	1,1,1-Trichloroethane	0.020	U	0.0090	0.020	0.10	0.10
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	0.017	0.050	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.050	U	0.015	0.050	0.10	0.10
75-34-3	1,1-Dichloroethane	0.050	U	0.021	0.050	0.10	0.10
75-35-4	1,1-Dichloroethene	0.10	U	0.040	0.10	0.20	0.20
563-58-6	1,1-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
87-61-6	1,2,3-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
96-18-4	1,2,3-Trichloropropane	0.050	U Y	0.027	0.050	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.050	U	0.029	0.050	0.10	0.10
96-12-8	1,2-Dibromo-3-chloropropane	0.10	U	0.070	0.10	0.20	0.20
106-93-4	1,2-Dibromoethane	0.050	U	0.015	0.050	0.10	0.10
95-50-1	1,2-Dichlorobenzene	0.050	U	0.025	0.050	0.10	0.10
107-06-2	1,2-Dichloroethane	0.050	U	0.015	0.050	0.10	0.10
78-87-5	1,2-Dichloropropane	0.020	U	0.012	0.020	0.10	0.10
108-67-8	1,3,5-Trimethylbenzene	0.050	U	0.024	0.050	0.10	0.10
541-73-1	1,3-Dichlorobenzene	0.050	U	0.030	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	0.030	0.050	0.10	0.10
544-10-5	1-Chlorohexane	0.10	U	0.040	0.10	0.20	0.20
594-20-7	2,2-Dichloropropane	0.050	U	0.019	0.050	0.10	0.10
78-93-3	2-Butanone	1.0	U	0.50	1.0	2.0	2.0
95-49-8	2-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

RB-02

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	GROUND WATER	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840416
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 11:22	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	0.20	U	0.12	0.20	1.0	1.0
106-43-4	4-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10
108-10-1	4-Methyl-2-pentanone	0.50	U	0.18	0.50	1.0	1.0
67-64-1	Acetone	1.0	U	0.90	1.0	2.0	2.0
71-43-2	Benzene	0.016	J	0.0080	0.020	0.10	0.10
108-86-1	Bromobenzene	0.050	U	0.026	0.050	0.10	0.10
74-97-5	Bromochloromethane	0.050	U	0.030	0.050	0.10	0.10
75-27-4	Bromodichloromethane	0.050	U	0.016	0.050	0.10	0.10
75-25-2	Bromoform	0.050	U	0.019	0.050	0.10	0.10
74-83-9	Bromomethane	0.10	U	0.038	0.10	0.20	0.20
75-15-0	Carbon disulfide	0.20	U	0.070	0.20	0.40	0.40
56-23-5	Carbon tetrachloride	0.050	U	0.018	0.050	0.10	0.10
108-90-7	Chlorobenzene	0.050	U	0.030	0.050	0.10	0.10
75-00-3	Chloroethane	0.10	U	0.070	0.10	0.20	0.20
67-66-3	Chloroform	0.020	U	0.010	0.020	0.10	0.10
74-87-3	Chloromethane	0.050	U	0.026	0.050	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.050	U	0.022	0.050	0.10	0.10
10061-01-5	cis-1,3-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
124-48-1	Dibromochloromethane	0.050	U	0.018	0.050	0.10	0.10
74-95-3	Dibromomethane	0.020	U	0.010	0.020	0.10	0.10
75-71-8	Dichlorodifluoromethane	0.020	U	0.013	0.020	0.10	0.10
100-41-4	Ethylbenzene	0.050	U	0.027	0.050	0.10	0.10
76-13-1	Freon 113	0.10	U	0.050	0.10	0.20	0.20
87-68-3	Hexachlorobutadiene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

RB-02

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	GROUND WATER	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840416
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 11:22	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.20	U Y	0.080	0.20	0.40	0.40
98-82-8	Isopropylbenzene	0.050	U	0.026	0.050	0.10	0.10
179601-23-1	m & p-Xylene	0.10	U	0.060	0.10	0.20	0.20
1634-04-4	Methyl tert-butyl ether	0.050	U	0.025	0.050	0.10	0.10
75-09-2	Methylene chloride	0.20	U	0.060	0.20	1.0	1.0
91-20-3	Naphthalene	0.10	U	0.040	0.10	0.20	0.20
104-51-8	n-Butylbenzene	0.050	U	0.027	0.050	0.10	0.10
103-65-1	n-Propylbenzene	0.050	U	0.030	0.050	0.10	0.10
95-47-6	o-Xylene	0.050	U	0.026	0.050	0.10	0.10
99-87-6	p-Isopropyltoluene	0.050	U	0.025	0.050	0.10	0.10
135-98-8	sec-Butylbenzene	0.050	U	0.024	0.050	0.10	0.10
100-42-5	Styrene	0.050	U	0.024	0.050	0.10	0.10
98-06-6	tert-Butylbenzene	0.050	U	0.026	0.050	0.10	0.10
127-18-4	Tetrachloroethene	0.020	U	0.010	0.020	0.10	0.10
108-88-3	Toluene	0.80		0.011	0.020	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	0.050	U	0.026	0.050	0.10	0.10
10061-02-6	trans-1,3-Dichloropropene	0.050	U	0.014	0.050	0.10	0.10
79-01-6	Trichloroethene	0.050	U	0.020	0.050	0.10	0.10
75-69-4	Trichlorofluoromethane	0.050	U	0.022	0.050	0.20	0.20
108-05-4	Vinyl acetate	0.50	U	0.25	0.50	1.0	1.0
75-01-4	Vinyl chloride	0.050	U	0.019	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-01

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	TRIP BLANK	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840414
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 09:57	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.020	U	0.011	0.020	0.10	0.10
71-55-6	1,1,1-Trichloroethane	0.020	U	0.0090	0.020	0.10	0.10
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	0.017	0.050	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.050	U	0.015	0.050	0.10	0.10
75-34-3	1,1-Dichloroethane	0.050	U	0.021	0.050	0.10	0.10
75-35-4	1,1-Dichloroethene	0.10	U	0.040	0.10	0.20	0.20
563-58-6	1,1-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
87-61-6	1,2,3-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
96-18-4	1,2,3-Trichloropropane	0.050	U Y	0.027	0.050	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.050	U	0.029	0.050	0.10	0.10
96-12-8	1,2-Dibromo-3-chloropropane	0.10	U	0.070	0.10	0.20	0.20
106-93-4	1,2-Dibromoethane	0.050	U	0.015	0.050	0.10	0.10
95-50-1	1,2-Dichlorobenzene	0.050	U	0.025	0.050	0.10	0.10
107-06-2	1,2-Dichloroethane	0.050	U	0.015	0.050	0.10	0.10
78-87-5	1,2-Dichloropropane	0.020	U	0.012	0.020	0.10	0.10
108-67-8	1,3,5-Trimethylbenzene	0.050	U	0.024	0.050	0.10	0.10
541-73-1	1,3-Dichlorobenzene	0.050	U	0.030	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	0.030	0.050	0.10	0.10
544-10-5	1-Chlorohexane	0.10	U	0.040	0.10	0.20	0.20
594-20-7	2,2-Dichloropropane	0.050	U	0.019	0.050	0.10	0.10
78-93-3	2-Butanone	1.0	U	0.50	1.0	2.0	2.0
95-49-8	2-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10

CT LABORATORIES
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1A

VOLATILE ORGANICS ANALYSIS

Sample Description

TB-01

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	TRIP BLANK	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840414
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 09:57	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	0.20	U	0.12	0.20	1.0	1.0
106-43-4	4-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10
108-10-1	4-Methyl-2-pentanone	0.50	U	0.18	0.50	1.0	1.0
67-64-1	Acetone	5.0		0.90	1.0	2.0	2.0
71-43-2	Benzene	0.020	U	0.0080	0.020	0.10	0.10
108-86-1	Bromobenzene	0.050	U	0.026	0.050	0.10	0.10
74-97-5	Bromochloromethane	0.050	U	0.030	0.050	0.10	0.10
75-27-4	Bromodichloromethane	0.050	U	0.016	0.050	0.10	0.10
75-25-2	Bromoform	0.050	U	0.019	0.050	0.10	0.10
74-83-9	Bromomethane	0.10	U	0.038	0.10	0.20	0.20
75-15-0	Carbon disulfide	0.20	U	0.070	0.20	0.40	0.40
56-23-5	Carbon tetrachloride	0.050	U	0.018	0.050	0.10	0.10
108-90-7	Chlorobenzene	0.050	U	0.030	0.050	0.10	0.10
75-00-3	Chloroethane	0.10	U	0.070	0.10	0.20	0.20
67-66-3	Chloroform	0.020	U	0.010	0.020	0.10	0.10
74-87-3	Chloromethane	0.041	J B	0.026	0.050	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.050	U	0.022	0.050	0.10	0.10
10061-01-5	cis-1,3-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
124-48-1	Dibromochloromethane	0.050	U	0.018	0.050	0.10	0.10
74-95-3	Dibromomethane	0.020	U	0.010	0.020	0.10	0.10
75-71-8	Dichlorodifluoromethane	0.020	U	0.013	0.020	0.10	0.10
100-41-4	Ethylbenzene	0.050	U	0.027	0.050	0.10	0.10
76-13-1	Freon 113	0.10	U	0.050	0.10	0.20	0.20
87-68-3	Hexachlorobutadiene	0.050	U	0.030	0.050	0.10	0.10

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-01

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	TRIP BLANK	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840414
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 09:57	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.35	J Y	0.080	0.20	0.40	0.40
98-82-8	Isopropylbenzene	0.050	U	0.026	0.050	0.10	0.10
179601-23-1	m & p-Xylene	0.10	U	0.060	0.10	0.20	0.20
1634-04-4	Methyl tert-butyl ether	0.050	U	0.025	0.050	0.10	0.10
75-09-2	Methylene chloride	0.20	U	0.060	0.20	1.0	1.0
91-20-3	Naphthalene	0.10	U	0.040	0.10	0.20	0.20
104-51-8	n-Butylbenzene	0.050	U	0.027	0.050	0.10	0.10
103-65-1	n-Propylbenzene	0.050	U	0.030	0.050	0.10	0.10
95-47-6	o-Xylene	0.050	U	0.026	0.050	0.10	0.10
99-87-6	p-Isopropyltoluene	0.050	U	0.025	0.050	0.10	0.10
135-98-8	sec-Butylbenzene	0.050	U	0.024	0.050	0.10	0.10
100-42-5	Styrene	0.050	U	0.024	0.050	0.10	0.10
98-06-6	tert-Butylbenzene	0.050	U	0.026	0.050	0.10	0.10
127-18-4	Tetrachloroethene	0.020	U	0.010	0.020	0.10	0.10
108-88-3	Toluene	0.020	U	0.011	0.020	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	0.050	U	0.026	0.050	0.10	0.10
10061-02-6	trans-1,3-Dichloropropene	0.050	U	0.014	0.050	0.10	0.10
79-01-6	Trichloroethene	0.050	U	0.020	0.050	0.10	0.10
75-69-4	Trichlorofluoromethane	0.050	U	0.022	0.050	0.20	0.20
108-05-4	Vinyl acetate	0.50	U	0.25	0.50	1.0	1.0
75-01-4	Vinyl chloride	0.050	U	0.019	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-02

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	TRIP BLANK	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840415
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 10:25	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.020	U	0.011	0.020	0.10	0.10
71-55-6	1,1,1-Trichloroethane	0.020	U	0.0090	0.020	0.10	0.10
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	0.017	0.050	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.050	U	0.015	0.050	0.10	0.10
75-34-3	1,1-Dichloroethane	0.050	U	0.021	0.050	0.10	0.10
75-35-4	1,1-Dichloroethene	0.10	U	0.040	0.10	0.20	0.20
563-58-6	1,1-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
87-61-6	1,2,3-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
96-18-4	1,2,3-Trichloropropane	0.050	U Y	0.027	0.050	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.050	U	0.029	0.050	0.10	0.10
96-12-8	1,2-Dibromo-3-chloropropane	0.10	U	0.070	0.10	0.20	0.20
106-93-4	1,2-Dibromoethane	0.050	U	0.015	0.050	0.10	0.10
95-50-1	1,2-Dichlorobenzene	0.050	U	0.025	0.050	0.10	0.10
107-06-2	1,2-Dichloroethane	0.050	U	0.015	0.050	0.10	0.10
78-87-5	1,2-Dichloropropane	0.020	U	0.012	0.020	0.10	0.10
108-67-8	1,3,5-Trimethylbenzene	0.050	U	0.024	0.050	0.10	0.10
541-73-1	1,3-Dichlorobenzene	0.050	U	0.030	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	0.030	0.050	0.10	0.10
544-10-5	1-Chlorohexane	0.10	U	0.040	0.10	0.20	0.20
594-20-7	2,2-Dichloropropane	0.050	U	0.019	0.050	0.10	0.10
78-93-3	2-Butanone	1.0	U	0.50	1.0	2.0	2.0
95-49-8	2-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-02

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	TRIP BLANK	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840415
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 10:25	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	0.20	U	0.12	0.20	1.0	1.0
106-43-4	4-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10
108-10-1	4-Methyl-2-pentanone	0.50	U	0.18	0.50	1.0	1.0
67-64-1	Acetone	5.0		0.90	1.0	2.0	2.0
71-43-2	Benzene	0.020	U	0.0080	0.020	0.10	0.10
108-86-1	Bromobenzene	0.050	U	0.026	0.050	0.10	0.10
74-97-5	Bromochloromethane	0.050	U	0.030	0.050	0.10	0.10
75-27-4	Bromodichloromethane	0.050	U	0.016	0.050	0.10	0.10
75-25-2	Bromoform	0.050	U	0.019	0.050	0.10	0.10
74-83-9	Bromomethane	0.10	U	0.038	0.10	0.20	0.20
75-15-0	Carbon disulfide	0.20	U	0.070	0.20	0.40	0.40
56-23-5	Carbon tetrachloride	0.050	U	0.018	0.050	0.10	0.10
108-90-7	Chlorobenzene	0.050	U	0.030	0.050	0.10	0.10
75-00-3	Chloroethane	0.10	U	0.070	0.10	0.20	0.20
67-66-3	Chloroform	0.020	U	0.010	0.020	0.10	0.10
74-87-3	Chloromethane	0.038	J B	0.026	0.050	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.050	U	0.022	0.050	0.10	0.10
10061-01-5	cis-1,3-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
124-48-1	Dibromochloromethane	0.050	U	0.018	0.050	0.10	0.10
74-95-3	Dibromomethane	0.020	U	0.010	0.020	0.10	0.10
75-71-8	Dichlorodifluoromethane	0.020	U	0.013	0.020	0.10	0.10
100-41-4	Ethylbenzene	0.050	U	0.027	0.050	0.10	0.10
76-13-1	Freon 113	0.10	U	0.050	0.10	0.20	0.20
87-68-3	Hexachlorobutadiene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

TB-02

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:	TRIP BLANK	SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	840415
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	135661	Dilution Factor:	1.00
Date & Time Analyzed:	03/17/2017 / 10:25	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.20	U Y	0.080	0.20	0.40	0.40
98-82-8	Isopropylbenzene	0.050	U	0.026	0.050	0.10	0.10
179601-23-1	m & p-Xylene	0.10	U	0.060	0.10	0.20	0.20
1634-04-4	Methyl tert-butyl ether	0.050	U	0.025	0.050	0.10	0.10
75-09-2	Methylene chloride	0.20	U	0.060	0.20	1.0	1.0
91-20-3	Naphthalene	0.10	U	0.040	0.10	0.20	0.20
104-51-8	n-Butylbenzene	0.050	U	0.027	0.050	0.10	0.10
103-65-1	n-Propylbenzene	0.050	U	0.030	0.050	0.10	0.10
95-47-6	o-Xylene	0.050	U	0.026	0.050	0.10	0.10
99-87-6	p-Isopropyltoluene	0.050	U	0.025	0.050	0.10	0.10
135-98-8	sec-Butylbenzene	0.050	U	0.024	0.050	0.10	0.10
100-42-5	Styrene	0.050	U	0.024	0.050	0.10	0.10
98-06-6	tert-Butylbenzene	0.050	U	0.026	0.050	0.10	0.10
127-18-4	Tetrachloroethene	0.020	U	0.010	0.020	0.10	0.10
108-88-3	Toluene	0.020	U	0.011	0.020	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	0.050	U	0.026	0.050	0.10	0.10
10061-02-6	trans-1,3-Dichloropropene	0.050	U	0.014	0.050	0.10	0.10
79-01-6	Trichloroethene	0.050	U	0.020	0.050	0.10	0.10
75-69-4	Trichlorofluoromethane	0.050	U	0.022	0.050	0.20	0.20
108-05-4	Vinyl acetate	0.50	U	0.25	0.50	1.0	1.0
75-01-4	Vinyl chloride	0.050	U	0.019	0.050	0.10	0.10

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Sample Description

METHOD BLANK

1A-2

VOLATILE ORGANICS ANALYSIS (MB or CCB)

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:		SDG No.:	125865
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	840889
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	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	03/14/2017	12:18	0.3	U	0.3	2.0	***1.0***
71-55-6	1,1,1-Trichloroethane	03/14/2017	12:18	0.3	U	0.3	2.0	***1.0***
79-34-5	1,1,2,2-Tetrachloroethane	03/14/2017	12:18	0.5	U	0.5	2.0	***1.0***
79-00-5	1,1,2-Trichloroethane	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
75-34-3	1,1-Dichloroethane	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
75-35-4	1,1-Dichloroethene	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
563-58-6	1,1-Dichloropropene	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
87-61-6	1,2,3-Trichlorobenzene	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
96-18-4	1,2,3-Trichloropropane	03/14/2017	12:18	0.5	U	0.5	2.0	***1.0***
120-82-1	1,2,4-Trichlorobenzene	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
95-63-6	1,2,4-Trimethylbenzene	03/14/2017	12:18	0.8	U	0.8	4.0	***2.0***
96-12-8	1,2-Dibromo-3-chloropropane	03/14/2017	12:18	1.3	U	1.3	4.0	***2.0***
106-93-4	1,2-Dibromoethane	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
95-50-1	1,2-Dichlorobenzene	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
107-06-2	1,2-Dichloroethane	03/14/2017	12:18	0.5	U	0.5	2.0	***1.0***
78-87-5	1,2-Dichloropropane	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
108-67-8	1,3,5-Trimethylbenzene	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
541-73-1	1,3-Dichlorobenzene	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
142-28-9	1,3-Dichloropropane	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
106-46-7	1,4-Dichlorobenzene	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
544-10-5	1-Chlorohexane	03/14/2017	12:18	0.6	U	0.6	2.0	***1.0***
594-20-7	2,2-Dichloropropane	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
78-93-3	2-Butanone	03/14/2017	12:18	10	U	10	40	***20***

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1A-2

VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:		SDG No.:	125865
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	840889
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
95-49-8	2-Chlorotoluene	03/14/2017	12:18	1.0	U	1.0	4.0	***2.0***
591-78-6	2-Hexanone	03/14/2017	12:18	11	U	11	40	***20***
106-43-4	4-Chlorotoluene	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
108-10-1	4-Methyl-2-pentanone	03/14/2017	12:18	10	U	10	40	***20***
67-64-1	Acetone	03/14/2017	12:18	10	U	10	40	***20***
71-43-2	Benzene	03/14/2017	12:18	0.3	U	0.3	2.0	***1.0***
108-86-1	Bromobenzene	03/14/2017	12:18	0.5	U	0.5	2.0	***1.0***
74-97-5	Bromochloromethane	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
75-27-4	Bromodichloromethane	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
75-25-2	Bromoform	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
74-83-9	Bromomethane	03/14/2017	12:18	0.7	U	0.7	4.0	***2.0***
75-15-0	Carbon disulfide	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
56-23-5	Carbon tetrachloride	03/14/2017	12:18	0.3	U	0.3	2.0	***1.0***
108-90-7	Chlorobenzene	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
75-00-3	Chloroethane	03/14/2017	12:18	0.5	U	0.5	2.0	***1.0***
67-66-3	Chloroform	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
74-87-3	Chloromethane	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
156-59-2	cis-1,2-Dichloroethene	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
10061-01-5	cis-1,3-Dichloropropene	03/14/2017	12:18	0.3	U	0.3	2.0	***1.0***
124-48-1	Dibromochloromethane	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
74-95-3	Dibromomethane	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
75-71-8	Dichlorodifluoromethane	03/14/2017	12:18	1.0	U	1.0	4.0	***2.0***
100-41-4	Ethylbenzene	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:		SDG No.:	125865
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	840889
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	03/14/2017 / 09:25
Analytical Method:	EPA 8260C	Analytical Prep Batch #	61516
Analytical Run #:	135664	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS031317	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
76-13-1	Freon 113	03/14/2017	12:18	1.0	U	1.0	4.0	***2.0***
87-68-3	Hexachlorobutadiene	03/14/2017	12:18	1.0	U	1.0	4.0	***2.0***
74-88-4	Iodomethane	03/14/2017	12:18	0.3	U	0.3	4.0	***2.0***
98-82-8	Isopropylbenzene	03/14/2017	12:18	0.3	U	0.3	2.0	***1.0***
179601-23-1	m & p-Xylene	03/14/2017	12:18	0.7	U	0.7	4.0	***2.0***
1634-04-4	Methyl tert-butyl ether	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
75-09-2	Methylene chloride	03/14/2017	12:18	1.7	U	1.7	4.0	***2.0***
91-20-3	Naphthalene	03/14/2017	12:18	1.0	U	1.0	4.0	***2.0***
104-51-8	n-Butylbenzene	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
103-65-1	n-Propylbenzene	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
95-47-6	o-Xylene	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
99-87-6	p-Isopropyltoluene	03/14/2017	12:18	1.0	U	1.0	4.0	***2.0***
135-98-8	sec-Butylbenzene	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
100-42-5	Styrene	03/14/2017	12:18	0.3	U	0.3	2.0	***1.0***
98-06-6	tert-Butylbenzene	03/14/2017	12:18	0.9	U	0.9	4.0	***2.0***
127-18-4	Tetrachloroethene	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
108-88-3	Toluene	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
156-60-5	trans-1,2-Dichloroethene	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
10061-02-6	trans-1,3-Dichloropropene	03/14/2017	12:18	0.4	U	0.4	2.0	***1.0***
79-01-6	Trichloroethene	03/14/2017	12:18	0.3	U	0.3	2.0	***1.0***
75-69-4	Trichlorofluoromethane	03/14/2017	12:18	0.5	U	0.5	2.0	***1.0***
108-05-4	Vinyl acetate	03/14/2017	12:18	12	U	12	40	***20***
75-01-4	Vinyl chloride	03/14/2017	12:18	0.5	U	0.5	2.0	***1.0***

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:		SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	843218
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	135661	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	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	03/17/2017	09:28	0.011	U	0.011	0.100	***0.050***
71-55-6	1,1,1-Trichloroethane	03/17/2017	09:28	0.009	U	0.009	0.100	***0.050***
79-34-5	1,1,2,2-Tetrachloroethane	03/17/2017	09:28	0.017	U	0.017	0.200	***0.100***
79-00-5	1,1,2-Trichloroethane	03/17/2017	09:28	0.015	U	0.015	0.100	***0.050***
75-34-3	1,1-Dichloroethane	03/17/2017	09:28	0.021	U	0.021	0.100	***0.050***
75-35-4	1,1-Dichloroethene	03/17/2017	09:28	0.04	U	0.04	0.10	***0.05***
563-58-6	1,1-Dichloropropene	03/17/2017	09:28	0.012	U	0.012	0.100	***0.050***
87-61-6	1,2,3-Trichlorobenzene	03/17/2017	09:28	0.04	U	0.04	0.10	***0.05***
96-18-4	1,2,3-Trichloropropane	03/17/2017	09:28	0.027	U	0.027	0.200	***0.100***
120-82-1	1,2,4-Trichlorobenzene	03/17/2017	09:28	0.04	U	0.04	0.10	***0.05***
95-63-6	1,2,4-Trimethylbenzene	03/17/2017	09:28	0.029	U	0.029	0.100	***0.050***
96-12-8	1,2-Dibromo-3-chloropropane	03/17/2017	09:28	0.07	U	0.07	0.20	***0.10***
106-93-4	1,2-Dibromoethane	03/17/2017	09:28	0.015	U	0.015	0.100	***0.050***
95-50-1	1,2-Dichlorobenzene	03/17/2017	09:28	0.025	U	0.025	0.100	***0.050***
107-06-2	1,2-Dichloroethane	03/17/2017	09:28	0.015	U	0.015	0.100	***0.050***
78-87-5	1,2-Dichloropropane	03/17/2017	09:28	0.012	U	0.012	0.100	***0.050***
108-67-8	1,3,5-Trimethylbenzene	03/17/2017	09:28	0.024	U	0.024	0.100	***0.050***
541-73-1	1,3-Dichlorobenzene	03/17/2017	09:28	0.03	U	0.03	0.10	***0.05***
142-28-9	1,3-Dichloropropane	03/17/2017	09:28	0.020	U	0.020	0.100	***0.050***
106-46-7	1,4-Dichlorobenzene	03/17/2017	09:28	0.03	U	0.03	0.10	***0.05***
544-10-5	1-Chlorohexane	03/17/2017	09:28	0.04	U	0.04	0.10	***0.05***
594-20-7	2,2-Dichloropropane	03/17/2017	09:28	0.019	U	0.019	0.100	***0.050***
78-93-3	2-Butanone	03/17/2017	09:28	0.5	U	0.5	1.0	***0.5***

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:		SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	843218
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	135661	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
95-49-8	2-Chlorotoluene	03/17/2017	09:28	0.03	U	0.03	0.10	***0.05***
591-78-6	2-Hexanone	03/17/2017	09:28	0.12	U	0.12	1.00	***0.50***
106-43-4	4-Chlorotoluene	03/17/2017	09:28	0.030	U	0.030	0.100	***0.050***
108-10-1	4-Methyl-2-pentanone	03/17/2017	09:28	0.18	U	0.18	1.00	***0.50***
67-64-1	Acetone	03/17/2017	09:28	0.9	U	0.9	2.0	***1.0***
71-43-2	Benzene	03/17/2017	09:28	0.008	U	0.008	0.100	***0.050***
108-86-1	Bromobenzene	03/17/2017	09:28	0.026	U	0.026	0.100	***0.050***
74-97-5	Bromochloromethane	03/17/2017	09:28	0.03	U	0.03	0.10	***0.05***
75-27-4	Bromodichloromethane	03/17/2017	09:28	0.016	U	0.016	0.100	***0.050***
75-25-2	Bromoform	03/17/2017	09:28	0.019	U	0.019	0.100	***0.050***
74-83-9	Bromomethane	03/17/2017	09:28	0.038	U	0.038	0.100	***0.050***
75-15-0	Carbon disulfide	03/17/2017	09:28	0.07	U	0.07	0.20	***0.10***
56-23-5	Carbon tetrachloride	03/17/2017	09:28	0.018	U	0.018	0.100	***0.050***
108-90-7	Chlorobenzene	03/17/2017	09:28	0.03	U	0.03	0.10	***0.05***
75-00-3	Chloroethane	03/17/2017	09:28	0.07	U	0.07	0.20	***0.10***
67-66-3	Chloroform	03/17/2017	09:28	0.010	U	0.010	0.100	***0.050***
74-87-3	Chloromethane	03/17/2017	09:28	0.0382	B	0.026	0.100	***0.050***
156-59-2	cis-1,2-Dichloroethene	03/17/2017	09:28	0.022	U	0.022	0.100	***0.050***
10061-01-5	cis-1,3-Dichloropropene	03/17/2017	09:28	0.012	U	0.012	0.100	***0.050***
124-48-1	Dibromochloromethane	03/17/2017	09:28	0.018	U	0.018	0.100	***0.050***
74-95-3	Dibromomethane	03/17/2017	09:28	0.010	U	0.010	0.100	***0.050***
75-71-8	Dichlorodifluoromethane	03/17/2017	09:28	0.013	U	0.013	0.100	***0.050***
100-41-4	Ethylbenzene	03/17/2017	09:28	0.027	U	0.027	0.100	***0.050***

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix:		SDG No.:	125865
Sample wt/vol:	(g/mL)	CTL Sample ID:	843218
% Solids:		Date Received:	03/10/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	135661	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW031517	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
76-13-1	Freon 113	03/17/2017	09:28	0.05	U	0.05	0.20	***0.10***
87-68-3	Hexachlorobutadiene	03/17/2017	09:28	0.03	U	0.03	0.10	***0.05***
74-88-4	Iodomethane	03/17/2017	09:28	0.352	B	0.08	0.40	***0.20***
98-82-8	Isopropylbenzene	03/17/2017	09:28	0.026	U	0.026	0.100	***0.050***
179601-23-1	m & p-Xylene	03/17/2017	09:28	0.06	U	0.06	0.20	***0.10***
1634-04-4	Methyl tert-butyl ether	03/17/2017	09:28	0.025	U	0.025	0.100	***0.050***
75-09-2	Methylene chloride	03/17/2017	09:28	0.06	U	0.06	1.00	***0.5***
91-20-3	Naphthalene	03/17/2017	09:28	0.04	U	0.04	0.10	***0.05***
104-51-8	n-Butylbenzene	03/17/2017	09:28	0.027	U	0.027	0.100	***0.050***
103-65-1	n-Propylbenzene	03/17/2017	09:28	0.03	U	0.03	0.10	***0.05***
95-47-6	o-Xylene	03/17/2017	09:28	0.026	U	0.026	0.100	***0.050***
99-87-6	p-Isopropyltoluene	03/17/2017	09:28	0.025	U	0.025	0.100	***0.050***
135-98-8	sec-Butylbenzene	03/17/2017	09:28	0.024	U	0.024	0.100	***0.050***
100-42-5	Styrene	03/17/2017	09:28	0.024	U	0.024	0.100	***0.050***
98-06-6	tert-Butylbenzene	03/17/2017	09:28	0.026	U	0.026	0.100	***0.050***
127-18-4	Tetrachloroethene	03/17/2017	09:28	0.010	U	0.010	0.100	***0.050***
108-88-3	Toluene	03/17/2017	09:28	0.011	U	0.011	0.100	***0.050***
156-60-5	trans-1,2-Dichloroethene	03/17/2017	09:28	0.026	U	0.026	0.100	***0.050***
10061-02-6	trans-1,3-Dichloropropene	03/17/2017	09:28	0.014	U	0.014	0.100	***0.050***
79-01-6	Trichloroethene	03/17/2017	09:28	0.020	U	0.020	0.100	***0.050***
75-69-4	Trichlorofluoromethane	03/17/2017	09:28	0.022	U	0.022	0.200	***0.100***
108-05-4	Vinyl acetate	03/17/2017	09:28	0.25	U	0.25	1.0	***0.5***
75-01-4	Vinyl chloride	03/17/2017	09:28	0.019	U	0.019	0.100	***0.050***

CT LABORATORIES
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2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Analytical Method: EPA 8260C | SDG: 125865

Analytical Run #: 135661 | ICAL Calibration #: LW031517

CTLab #	840398				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	81	118	
Bromofluorobenzene	100	99	85	114	
d8-Toluene	100	101	89	112	
Dibromofluoromethane	100	94	80	119	
CTLab #	**840414**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	102	81	118	
Bromofluorobenzene	100	99	85	114	
d8-Toluene	100	100	89	112	
Dibromofluoromethane	100	94	80	119	
CTLab #	**840415**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	103	81	118	
Bromofluorobenzene	100	102	85	114	
d8-Toluene	100	102	89	112	
Dibromofluoromethane	100	93	80	119	
CTLab #	**840416**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	104	81	118	
Bromofluorobenzene	100	99	85	114	
d8-Toluene	100	101	89	112	
Dibromofluoromethane	100	98	80	119	
CTLab #	**843150**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	81	118	
Bromofluorobenzene	100	101	85	114	
d8-Toluene	100	101	89	112	
Dibromofluoromethane	100	102	80	119	
CTLab #	**843151**	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	80	120	
Bromofluorobenzene	100	101	80	120	
d8-Toluene	100	101	80	120	
Dibromofluoromethane	100	102	80	120	

CT LABORATORIES
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2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Analytical Method:	EPA 8260C	SDG:	125865
Analytical Run #:	135661	ICAL Calibration #:	LW031517

CTLab #	843218	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	100	85	120	
Dibromofluoromethane	100	97.0	85	115	

CTLab #	843459	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	99.0	81	118	
Bromofluorobenzene	100	99.0	85	114	
d8-Toluene	100	101	89	112	
Dibromofluoromethane	100	102	80	119	

CTLab #	844217	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	99.0	50	150	
Bromofluorobenzene	100	99.0	50	150	
d8-Toluene	100	101	50	150	
Dibromofluoromethane	100	102	50	150	

CT LABORATORIES
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2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Analytical Method: EPA 8260C | SDG: 125865

Analytical Run #: 135664 | ICAL Calibration #: LS031317

CTLab #	840394				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	95	78	119	

CTLab #	840395				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	95	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	95	78	119	

CTLab #	840396				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	100	78	119	

CTLab #	840397				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	90	78	119	

CTLab #	840399				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	120	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	95	78	119	

CTLab #	840400				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	95	78	119	

CT LABORATORIES
delivering more than data from your environmental analyses

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Analytical Method: EPA 8260C | SDG: 125865

Analytical Run #: 135664 | ICAL Calibration #: LS031317

CTLab #	840401				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	95	78	119	

CTLab #	840402				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	95	78	119	

CTLab #	840403				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	95	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	95	78	119	

CTLab #	840404				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	95	78	119	

CTLab #	840405				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	120	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	95	78	119	

CTLab #	840406				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	95	78	119	

CT LABORATORIES
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2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Analytical Method: EPA 8260C | SDG: 125865

Analytical Run #: 135664 | ICAL Calibration #: LS031317

CTLab #	840407				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	95	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	95	78	119	
CTLab #	**840408**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	90	78	119	
CTLab #	**840409**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	115	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	95	78	119	
CTLab #	**840410**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	120	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	95	78	119	
CTLab #	**840413**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	90	78	119	
CTLab #	**840889**	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	100	85	116	
Dibromofluoromethane	100	90.0	78	119	

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2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Analytical Method:	EPA 8260C	SDG:	125865
Analytical Run #:	135664	ICAL Calibration #:	LS031317

CTLab #	840890	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	100	85	116	
Dibromofluoromethane	100	100	78	119	

CTLab #	840891	Sample Type:	Matrix Spike		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	

CTLab #	840892	Sample Type:	Matrix Spike Duplicate		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	95.0	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	

CTLab #	841341	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	80	120	
Bromofluorobenzene	100	100	80	120	
d8-Toluene	100	100	80	120	
Dibromofluoromethane	100	100	80	120	

CTLab #	841811	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	95.0	50	150	
Bromofluorobenzene	100	100	50	150	
d8-Toluene	100	100	50	150	
Dibromofluoromethane	100	100	50	150	

CT LABORATORIES
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3A

Sample Description

WATER VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Sample No.: 843150

SDG No.: 125865

Analytical Method: EPA 8260C

Concentration Units: ug/L

Sample No.: 843150

Parent Sample No.: 0

Analytical Prep Batch #: 0

Analytical Preparation Date/Time:

Analytical Run #: 135661

ICAL Calibration #: LW031517

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1,2-Tetrachloroethane	03/17/2017	08:31	78-124	3.77		4.00	94
1,1,1-Trichloroethane	03/17/2017	08:31	74-131	3.81		4.00	95
1,1,2,2-Tetrachloroethane	03/17/2017	08:31	71-121	3.71		4.00	93
1,1,2-Trichloroethane	03/17/2017	08:31	80-119	3.61		4.00	90
1,1-Dichloroethane	03/17/2017	08:31	77-125	3.59		4.00	90
1,1-Dichloroethene	03/17/2017	08:31	71-131	3.77		4.00	94
1,1-Dichloropropene	03/17/2017	08:31	79-125	3.68		4.00	92
1,2,3-Trichlorobenzene	03/17/2017	08:31	69-129	3.66		4.00	92
1,2,3-Trichloropropane	03/17/2017	08:31	73-122	3.33		4.00	83
1,2,4-Trichlorobenzene	03/17/2017	08:31	69-130	3.62		4.00	90
1,2,4-Trimethylbenzene	03/17/2017	08:31	76-124	3.76		4.00	94
1,2-Dibromo-3-chloropropane	03/17/2017	08:31	62-128	3.68		4.00	92
1,2-Dibromoethane	03/17/2017	08:31	77-121	3.76		4.00	94
1,2-Dichlorobenzene	03/17/2017	08:31	80-119	3.61		4.00	90
1,2-Dichloroethane	03/17/2017	08:31	73-128	3.56		4.00	89
1,2-Dichloropropane	03/17/2017	08:31	78-122	3.53		4.00	88
1,3,5-Trimethylbenzene	03/17/2017	08:31	75-124	3.74		4.00	94
1,3-Dichlorobenzene	03/17/2017	08:31	80-119	3.58		4.00	90
1,3-Dichloropropane	03/17/2017	08:31	80-119	3.62		4.00	90
1,4-Dichlorobenzene	03/17/2017	08:31	79-118	3.56		4.00	89
1-Chlorohexane	03/17/2017	08:31	76-124	3.62		4.00	90
2,2-Dichloropropane	03/17/2017	08:31	60-139	3.92		4.00	98
2-Butanone	03/17/2017	08:31	56-143	36.9		40.0	92
2-Chlorotoluene	03/17/2017	08:31	79-122	3.62		4.00	90
2-Hexanone	03/17/2017	08:31	57-139	38.3		40.0	96
4-Chlorotoluene	03/17/2017	08:31	78-122	3.66		4.00	92
4-Methyl-2-pentanone	03/17/2017	08:31	67-130	38.2		40.0	96
Acetone	03/17/2017	08:31	39-160	38.4		40.0	96

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3A

Sample Description

WATER VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Sample No.: 843150

SDG No.: 125865

Analytical Method: EPA 8260C

Concentration Units: ug/L

Sample No.: 843150

Parent Sample No.: 0

Analytical Prep Batch #: 0

Analytical Preparation Date/Time:

Analytical Run #: 135661

ICAL Calibration #: LW031517

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Benzene	03/17/2017	08:31	79-120	3.65		4.00	91
Bromobenzene	03/17/2017	08:31	80-120	3.59		4.00	90
Bromochloromethane	03/17/2017	08:31	78-123	3.63		4.00	91
Bromodichloromethane	03/17/2017	08:31	79-125	3.93		4.00	98
Bromoform	03/17/2017	08:31	66-130	4.01		4.00	100
Bromomethane	03/17/2017	08:31	53-141	3.67		4.00	92
Carbon disulfide	03/17/2017	08:31	64-133	7.73		8.00	97
Carbon tetrachloride	03/17/2017	08:31	72-136	4.39		4.00	110
Chlorobenzene	03/17/2017	08:31	82-118	3.58		4.00	90
Chloroethane	03/17/2017	08:31	60-138	3.44		4.00	86
Chloroform	03/17/2017	08:31	79-124	3.51		4.00	88
Chloromethane	03/17/2017	08:31	50-139	3.51		4.00	88
cis-1,2-Dichloroethene	03/17/2017	08:31	78-123	3.51		4.00	88
cis-1,3-Dichloropropene	03/17/2017	08:31	75-124	3.65		4.00	91
Dibromochloromethane	03/17/2017	08:31	74-126	3.85		4.00	96
Dibromomethane	03/17/2017	08:31	79-123	3.73		4.00	93
Dichlorodifluoromethane	03/17/2017	08:31	32-152	3.63		4.00	91
Ethylbenzene	03/17/2017	08:31	79-121	3.68		4.00	92
Freon 113	03/17/2017	08:31	70-136	7.45		8.00	93
Hexachlorobutadiene	03/17/2017	08:31	66-134	3.69		4.00	92
Iodomethane	03/17/2017	08:31	69-131	7.04		8.00	88
Isopropylbenzene	03/17/2017	08:31	72-131	3.71		4.00	93
m & p-Xylene	03/17/2017	08:31	80-121	7.35		8.00	92
Methyl tert-butyl ether	03/17/2017	08:31	71-124	3.65		4.00	91
Methylene chloride	03/17/2017	08:31	74-124	3.98		4.00	100
Naphthalene	03/17/2017	08:31	61-128	3.63		4.00	91
n-Butylbenzene	03/17/2017	08:31	75-128	3.71		4.00	93
n-Propylbenzene	03/17/2017	08:31	76-126	3.72		4.00	93

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3A

Sample Description

WATER VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Sample No.: 843150

SDG No.: 125865

Analytical Method: EPA 8260C

Concentration Units: ug/L

Sample No.: 843150

Parent Sample No.: 0

Analytical Prep Batch #: 0

Analytical Preparation Date/Time:

Analytical Run #: 135661

ICAL Calibration #: LW031517

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
o-Xylene	03/17/2017	08:31	78-122	3.68		4.00	92
p-Isopropyltoluene	03/17/2017	08:31	77-127	3.77		4.00	94
sec-Butylbenzene	03/17/2017	08:31	77-126	3.81		4.00	95
Styrene	03/17/2017	08:31	78-123	3.75		4.00	94
tert-Butylbenzene	03/17/2017	08:31	78-124	3.73		4.00	93
Tetrachloroethene	03/17/2017	08:31	74-129	3.76		4.00	94
Toluene	03/17/2017	08:31	80-121	3.60		4.00	90
trans-1,2-Dichloroethene	03/17/2017	08:31	75-124	3.67		4.00	92
trans-1,3-Dichloropropene	03/17/2017	08:31	73-127	3.70		4.00	92
Trichloroethene	03/17/2017	08:31	79-123	3.77		4.00	94
Trichlorofluoromethane	03/17/2017	08:31	65-141	3.73		4.00	93
Vinyl acetate	03/17/2017	08:31	54-146	36.3		40.0	91
Vinyl chloride	03/17/2017	08:31	58-137	3.61		4.00	90

Spike Recovery: 0 out of 69 outside limits

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3A

WATER VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCSD**

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Sample No.: 843459
SDG No.: 125865
Analytical Method: EPA 8260C
Concentration Units: ug/L

Analytical Run #: 135661 Sample No.: 843459 Parent Sample No.: 843150
Analytical Prep Batch #: 0 Analytical Preparation Date/Time:
ICAL Calibration #: LW031517

Analyte	Analysis Date/Time		Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit (%R)	Control Limit (%RPD)	
1,1,1,2-Tetrachloroethane	03/17/2017	14:15	3.82	3.77	4.00	96	1	78-124	20	
1,1,1-Trichloroethane	03/17/2017	14:15	3.91	3.81	4.00	98	3	74-131	20	
1,1,2,2-Tetrachloroethane	03/17/2017	14:15	3.93	3.71	4.00	98	6	71-121	20	
1,1,2-Trichloroethane	03/17/2017	14:15	3.93	3.61	4.00	98	8	80-119	20	
1,1-Dichloroethane	03/17/2017	14:15	3.70	3.59	4.00	92	3	77-125	20	
1,1-Dichloroethene	03/17/2017	14:15	3.85	3.77	4.00	96	2	71-131	20	
1,1-Dichloropropene	03/17/2017	14:15	3.87	3.68	4.00	97	5	79-125	20	
1,2,3-Trichlorobenzene	03/17/2017	14:15	3.73	3.66	4.00	93	2	69-129	20	
1,2,3-Trichloropropane	03/17/2017	14:15	4.12	3.33	4.00	103	21	73-122	20	*FAIL*
1,2,4-Trichlorobenzene	03/17/2017	14:15	3.67	3.62	4.00	92	1	69-130	20	
1,2,4-Trimethylbenzene	03/17/2017	14:15	3.88	3.76	4.00	97	3	76-124	20	
1,2-Dibromo-3-chloropropane	03/17/2017	14:15	3.52	3.68	4.00	88	4	62-128	20	
1,2-Dibromoethane	03/17/2017	14:15	3.81	3.76	4.00	95	1	77-121	20	
1,2-Dichlorobenzene	03/17/2017	14:15	3.75	3.61	4.00	94	4	80-119	20	
1,2-Dichloroethane	03/17/2017	14:15	3.73	3.56	4.00	93	5	73-128	20	
1,2-Dichloropropane	03/17/2017	14:15	3.74	3.53	4.00	94	6	78-122	20	
1,3,5-Trimethylbenzene	03/17/2017	14:15	3.84	3.74	4.00	96	3	75-124	20	
1,3-Dichlorobenzene	03/17/2017	14:15	3.70	3.58	4.00	92	3	80-119	20	
1,3-Dichloropropane	03/17/2017	14:15	3.82	3.62	4.00	96	5	80-119	20	
1,4-Dichlorobenzene	03/17/2017	14:15	3.72	3.56	4.00	93	4	79-118	20	
1-Chlorohexane	03/17/2017	14:15	3.72	3.62	4.00	93	3	76-124	20	
2,2-Dichloropropane	03/17/2017	14:15	3.59	3.92	4.00	90	9	60-139	20	
2-Butanone	03/17/2017	14:15	40.2	36.9	40.0	100	9	56-143	20	
2-Chlorotoluene	03/17/2017	14:15	3.73	3.62	4.00	93	3	79-122	20	
2-Hexanone	03/17/2017	14:15	40.3	38.3	40.0	101	5	57-139	20	
4-Chlorotoluene	03/17/2017	14:15	3.74	3.66	4.00	94	2	78-122	20	
4-Methyl-2-pentanone	03/17/2017	14:15	40.5	38.2	40.0	101	6	67-130	20	
Acetone	03/17/2017	14:15	41.1	38.4	40.0	103	7	39-160	20	

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3A

WATER VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCSD**

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Sample No.: 843459
SDG No.: 125865
Analytical Method: EPA 8260C
Concentration Units: ug/L

Analytical Run #: 135661 Sample No.: 843459 Parent Sample No.: 843150
Analytical Prep Batch #: 0 Analytical Preparation Date/Time:
ICAL Calibration #: LW031517

Analyte	Analysis Date/Time		Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit (%R)	Control Limit (%RPD)	
Benzene	03/17/2017	14:15	3.78	3.65	4.00	94	3	79-120	20	
Bromobenzene	03/17/2017	14:15	3.72	3.59	4.00	93	4	80-120	20	
Bromochloromethane	03/17/2017	14:15	3.79	3.63	4.00	95	4	78-123	20	
Bromodichloromethane	03/17/2017	14:15	3.98	3.93	4.00	100	1	79-125	20	
Bromoform	03/17/2017	14:15	3.80	4.01	4.00	95	5	66-130	20	
Bromomethane	03/17/2017	14:15	3.22	3.67	4.00	80	13	53-141	20	
Carbon disulfide	03/17/2017	14:15	7.88	7.73	8.00	98	2	64-133	20	
Carbon tetrachloride	03/17/2017	14:15	4.53	4.39	4.00	113	3	72-136	20	
Chlorobenzene	03/17/2017	14:15	3.66	3.58	4.00	92	2	82-118	20	
Chloroethane	03/17/2017	14:15	3.48	3.44	4.00	87	1	60-138	20	
Chloroform	03/17/2017	14:15	3.65	3.51	4.00	91	4	79-124	20	
Chloromethane	03/17/2017	14:15	3.60	3.51	4.00	90	3	50-139	20	
cis-1,2-Dichloroethene	03/17/2017	14:15	3.71	3.51	4.00	93	6	78-123	20	
cis-1,3-Dichloropropene	03/17/2017	14:15	3.64	3.65	4.00	91	0	75-124	20	
Dibromochloromethane	03/17/2017	14:15	3.76	3.85	4.00	94	2	74-126	20	
Dibromomethane	03/17/2017	14:15	3.75	3.73	4.00	94	1	79-123	20	
Dichlorodifluoromethane	03/17/2017	14:15	3.82	3.63	4.00	96	5	32-152	20	
Ethylbenzene	03/17/2017	14:15	3.83	3.68	4.00	96	4	79-121	20	
Freon 113	03/17/2017	14:15	7.81	7.45	8.00	98	5	70-136	20	
Hexachlorobutadiene	03/17/2017	14:15	3.69	3.69	4.00	92	0	66-134	20	
Iodomethane	03/17/2017	14:15	5.58	7.04	8.00	70	23	69-131	20	*FAIL*
Isopropylbenzene	03/17/2017	14:15	3.82	3.71	4.00	96	3	72-131	20	
m & p-Xylene	03/17/2017	14:15	7.54	7.35	8.00	94	3	80-121	20	
Methyl tert-butyl ether	03/17/2017	14:15	3.92	3.65	4.00	98	7	71-124	20	
Methylene chloride	03/17/2017	14:15	4.07	3.98	4.00	102	2	74-124	20	
Naphthalene	03/17/2017	14:15	3.72	3.63	4.00	93	2	61-128	20	
n-Butylbenzene	03/17/2017	14:15	3.69	3.71	4.00	92	1	75-128	20	
n-Propylbenzene	03/17/2017	14:15	3.80	3.72	4.00	95	2	76-126	20	

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WATER VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCSD**

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Sample No.: 843459
SDG No.: 125865
Analytical Method: EPA 8260C
Concentration Units: ug/L

Analytical Run #: 135661 Sample No.: 843459 Parent Sample No.: 843150
Analytical Prep Batch #: 0 Analytical Preparation Date/Time:
ICAL Calibration #: LW031517

Analyte	Analysis Date/Time		Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit (%R)	Control Limit (%RPD)
o-Xylene	03/17/2017	14:15	3.82	3.68	4.00	96	4	78-122	20
p-Isopropyltoluene	03/17/2017	14:15	3.81	3.77	4.00	95	1	77-127	20
sec-Butylbenzene	03/17/2017	14:15	3.92	3.81	4.00	98	3	77-126	20
Styrene	03/17/2017	14:15	3.89	3.75	4.00	97	4	78-123	20
tert-Butylbenzene	03/17/2017	14:15	3.89	3.73	4.00	97	4	78-124	20
Tetrachloroethene	03/17/2017	14:15	3.81	3.76	4.00	95	1	74-129	20
Toluene	03/17/2017	14:15	3.74	3.60	4.00	94	4	80-121	20
trans-1,2-Dichloroethene	03/17/2017	14:15	3.76	3.67	4.00	94	2	75-124	20
trans-1,3-Dichloropropene	03/17/2017	14:15	3.63	3.70	4.00	91	2	73-127	20
Trichloroethene	03/17/2017	14:15	3.81	3.77	4.00	95	1	79-123	20
Trichlorofluoromethane	03/17/2017	14:15	4.02	3.73	4.00	100	7	65-141	20
Vinyl acetate	03/17/2017	14:15	38.2	36.3	40.0	96	5	54-146	20
Vinyl chloride	03/17/2017	14:15	3.74	3.61	4.00	94	4	58-137	20

RPD or Spike Recovery: 2 out of 69 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description

DF-SB47-18-1703

Lab Name: CT Laboratories Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Matrix: SOIL SDG No.: 125865

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 135664 Sample No.: 840891 Parent Sample No.: 840394

Analytical Prep Batch #: 61516 Analytical Preparation Date/Time: 03/14/2017 09:25

ICAL Calibration #: LS031317

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1,2-Tetrachloroethane	03/14/2017	20:53	78-125	11.3	BDL	11.4	99
1,1,1-Trichloroethane	03/14/2017	20:53	73-130	12.8	BDL	11.4	112
1,1,2,2-Tetrachloroethane	03/14/2017	20:53	70-124	13.1	BDL	11.4	115
1,1,2-Trichloroethane	03/14/2017	20:53	78-121	12.9	BDL	11.4	113
1,1-Dichloroethane	03/14/2017	20:53	76-125	12.9	BDL	11.4	113
1,1-Dichloroethene	03/14/2017	20:53	70-131	13.5	BDL	11.4	118
1,1-Dichloropropene	03/14/2017	20:53	76-125	13.6	BDL	11.4	119
1,2,3-Trichlorobenzene	03/14/2017	20:53	66-130	11.7	BDL	11.4	103
1,2,3-Trichloropropane	03/14/2017	20:53	73-125	14.1	BDL	11.4	124
1,2,4-Trichlorobenzene	03/14/2017	20:53	67-129	11.8	BDL	11.4	104
1,2,4-Trimethylbenzene	03/14/2017	20:53	75-123	10.7	BDL	11.4	94
1,2-Dibromo-3-chloropropane	03/14/2017	20:53	61-132	12.3	BDL	11.4	108
1,2-Dibromoethane	03/14/2017	20:53	78-122	12.6	BDL	11.4	111
1,2-Dichlorobenzene	03/14/2017	20:53	78-121	11.8	BDL	11.4	104
1,2-Dichloroethane	03/14/2017	20:53	73-128	12.7	BDL	11.4	111
1,2-Dichloropropane	03/14/2017	20:53	76-123	13.3	BDL	11.4	117
1,3,5-Trimethylbenzene	03/14/2017	20:53	73-124	11.9	BDL	11.4	104
1,3-Dichlorobenzene	03/14/2017	20:53	77-121	12.0	BDL	11.4	105
1,3-Dichloropropane	03/14/2017	20:53	77-121	12.7	BDL	11.4	111
1,4-Dichlorobenzene	03/14/2017	20:53	75-120	12.0	BDL	11.4	105
1-Chlorohexane	03/14/2017	20:53	71-130	12.5	BDL	11.4	110
2,2-Dichloropropane	03/14/2017	20:53	67-133	12.7	BDL	11.4	111
2-Butanone	03/14/2017	20:53	51-148	141	BDL	114	124
2-Chlorotoluene	03/14/2017	20:53	75-122	12.3	BDL	11.4	108
2-Hexanone	03/14/2017	20:53	53-145	141	BDL	114	124
4-Chlorotoluene	03/14/2017	20:53	72-124	12.1	BDL	11.4	106
4-Methyl-2-pentanone	03/14/2017	20:53	65-135	154	BDL	114	135
Acetone	03/14/2017	20:53	36-164	161	18.2	114	125
Benzene	03/14/2017	20:53	77-121	13.4	BDL	11.4	118
Bromobenzene	03/14/2017	20:53	78-121	11.5	BDL	11.4	101
Bromochloromethane	03/14/2017	20:53	78-125	12.3	BDL	11.4	108

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description

DF-SB47-18-1703

Lab Name: CT Laboratories Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Matrix: SOIL SDG No.: 125865

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 135664 Sample No.: 840891 Parent Sample No.: 840394

Analytical Prep Batch #: 61516 Analytical Preparation Date/Time: 03/14/2017 09:25

ICAL Calibration #: LS031317

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Bromodichloromethane	03/14/2017	20:53	75-127	12.5	BDL	11.4	110	
Bromoform	03/14/2017	20:53	67-132	11.1	BDL	11.4	97	
Bromomethane	03/14/2017	20:53	53-143	13.5	BDL	11.4	118	
Carbon disulfide	03/14/2017	20:53	63-132	27.3	BDL	22.9	119	
Carbon tetrachloride	03/14/2017	20:53	70-135	12.7	BDL	11.4	111	
Chlorobenzene	03/14/2017	20:53	79-120	12.3	BDL	11.4	108	
Chloroethane	03/14/2017	20:53	59-139	13.7	BDL	11.4	120	
Chloroform	03/14/2017	20:53	78-123	12.7	BDL	11.4	111	
Chloromethane	03/14/2017	20:53	50-136	13.7	BDL	11.4	120	
cis-1,2-Dichloroethene	03/14/2017	20:53	77-123	12.9	BDL	11.4	113	
cis-1,3-Dichloropropene	03/14/2017	20:53	74-126	12.0	BDL	11.4	105	
Dibromochloromethane	03/14/2017	20:53	74-126	11.5	BDL	11.4	101	
Dibromomethane	03/14/2017	20:53	78-125	12.7	BDL	11.4	111	
Dichlorodifluoromethane	03/14/2017	20:53	29-149	14.7	BDL	11.4	129	
Ethylbenzene	03/14/2017	20:53	76-122	12.8	BDL	11.4	112	
Freon 113	03/14/2017	20:53	66-136	28.4	BDL	22.9	124	
Hexachlorobutadiene	03/14/2017	20:53	61-135	13.0	BDL	11.4	114	
Iodomethane	03/14/2017	20:53	71-131	25.0	BDL	22.9	109	
Isopropylbenzene	03/14/2017	20:53	68-134	12.5	BDL	11.4	110	
m & p-Xylene	03/14/2017	20:53	77-124	25.0	BDL	22.9	109	
Methyl tert-butyl ether	03/14/2017	20:53	73-125	12.8	BDL	11.4	112	
Methylene chloride	03/14/2017	20:53	70-128	7.66	BDL	11.4	67	*FAIL*
Naphthalene	03/14/2017	20:53	62-129	11.2	BDL	11.4	98	
n-Butylbenzene	03/14/2017	20:53	70-128	12.8	BDL	11.4	112	
n-Propylbenzene	03/14/2017	20:53	73-125	12.6	BDL	11.4	111	
o-Xylene	03/14/2017	20:53	77-123	12.0	BDL	11.4	105	
p-Isopropyltoluene	03/14/2017	20:53	73-127	12.0	BDL	11.4	105	
sec-Butylbenzene	03/14/2017	20:53	73-126	13.0	BDL	11.4	114	
Styrene	03/14/2017	20:53	76-124	1.94	BDL	11.4	17	*FAIL*
tert-Butylbenzene	03/14/2017	20:53	73-125	13.0	BDL	11.4	114	
Tetrachloroethene	03/14/2017	20:53	73-128	13.5	BDL	11.4	118	

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description

DF-SB47-18-1703

Lab Name: CT Laboratories Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Matrix: SOIL SDG No.: 125865

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 135664 Sample No.: 840891 Parent Sample No.: 840394

Analytical Prep Batch #: 61516 Analytical Preparation Date/Time: 03/14/2017 09:25

ICAL Calibration #: LS031317

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Toluene	03/14/2017	20:53	77-121	13.0	1.10	11.4	104	
trans-1,2-Dichloroethene	03/14/2017	20:53	74-125	13.4	BDL	11.4	118	
trans-1,3-Dichloropropene	03/14/2017	20:53	71-130	11.7	BDL	11.4	103	
Trichloroethene	03/14/2017	20:53	77-123	13.4	BDL	11.4	118	
Trichlorofluoromethane	03/14/2017	20:53	62-140	14.2	BDL	11.4	125	
Vinyl acetate	03/14/2017	20:53	50-151	48.8	BDL	114	43	*FAIL*
Vinyl chloride	03/14/2017	20:53	56-135	14.1	BDL	11.4	124	

Spike Recovery: 3 out of 69 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Sample Description

DF-SB47-18-1703

Lab Name: CT Laboratories Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Matrix: SOIL SDG No.: 125865

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 135664 Sample No.: 840892 Parent Sample No.: 840891

Analytical Prep Batch #: 61516 Analytical Preparation Date/Time: 03/14/2017 09:25

ICAL Calibration #: LS031317

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
1,1,1,2-Tetrachloroethane	03/14/2017	21:22	13.7	12.0	114	14	78-125	20	
1,1,1-Trichloroethane	03/14/2017	21:22	15.5	12.0	129	14	73-130	20	
1,1,2,2-Tetrachloroethane	03/14/2017	21:22	14.7	12.0	122	6	70-124	20	
1,1,2-Trichloroethane	03/14/2017	21:22	14.7	12.0	122	8	78-121	20	*FAIL*
1,1-Dichloroethane	03/14/2017	21:22	14.5	12.0	121	6	76-125	20	
1,1-Dichloroethene	03/14/2017	21:22	16.0	12.0	133	12	70-131	20	*FAIL*
1,1-Dichloropropene	03/14/2017	21:22	15.4	12.0	128	7	76-125	20	*FAIL*
1,2,3-Trichlorobenzene	03/14/2017	21:22	13.6	12.0	113	10	66-130	20	
1,2,3-Trichloropropane	03/14/2017	21:22	16.7	12.0	139	12	73-125	20	*FAIL*
1,2,4-Trichlorobenzene	03/14/2017	21:22	13.4	12.0	112	7	67-129	20	
1,2,4-Trimethylbenzene	03/14/2017	21:22	13.1	12.0	109	15	75-123	20	
1,2-Dibromo-3-chloropropane	03/14/2017	21:22	14.9	12.0	124	14	61-132	20	
1,2-Dibromoethane	03/14/2017	21:22	14.9	12.0	124	12	78-122	20	*FAIL*
1,2-Dichlorobenzene	03/14/2017	21:22	13.4	12.0	112	7	78-121	20	
1,2-Dichloroethane	03/14/2017	21:22	14.6	12.0	122	9	73-128	20	
1,2-Dichloropropane	03/14/2017	21:22	14.3	12.0	119	3	76-123	20	
1,3,5-Trimethylbenzene	03/14/2017	21:22	14.0	12.0	117	11	73-124	20	
1,3-Dichlorobenzene	03/14/2017	21:22	13.9	12.0	116	9	77-121	20	
1,3-Dichloropropane	03/14/2017	21:22	14.5	12.0	121	8	77-121	20	
1,4-Dichlorobenzene	03/14/2017	21:22	13.4	12.0	112	6	75-120	20	
1-Chlorohexane	03/14/2017	21:22	15.4	12.0	128	16	71-130	20	
2,2-Dichloropropane	03/14/2017	21:22	14.9	12.0	124	11	67-133	20	
2-Butanone	03/14/2017	21:22	152	120	127	2	51-148	20	
2-Chlorotoluene	03/14/2017	21:22	14.1	12.0	118	8	75-122	20	
2-Hexanone	03/14/2017	21:22	170	120	142	14	53-145	20	
4-Chlorotoluene	03/14/2017	21:22	14.2	12.0	118	11	72-124	20	
4-Methyl-2-pentanone	03/14/2017	21:22	174	120	145	7	65-135	20	*FAIL*
Acetone	03/14/2017	21:22	170	120	126	0	36-164	20	
Benzene	03/14/2017	21:22	14.9	12.0	124	6	77-121	20	*FAIL*
Bromobenzene	03/14/2017	21:22	13.9	12.0	116	13	78-121	20	
Bromochloromethane	03/14/2017	21:22	14.0	12.0	117	7	78-125	20	

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Sample Description

DF-SB47-18-1703

Lab Name: CT Laboratories Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Matrix: SOIL SDG No.: 125865

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 135664 Sample No.: 840892 Parent Sample No.: 840891

Analytical Prep Batch #: 61516 Analytical Preparation Date/Time: 03/14/2017 09:25

ICAL Calibration #: LS031317

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Bromodichloromethane	03/14/2017	21:22	14.0	12.0	117	6	75-127	20	
Bromoform	03/14/2017	21:22	13.6	12.0	113	15	67-132	20	
Bromomethane	03/14/2017	21:22	15.4	12.0	128	8	53-143	20	
Carbon disulfide	03/14/2017	21:22	31.9	24.1	132	10	63-132	20	
Carbon tetrachloride	03/14/2017	21:22	15.4	12.0	128	14	70-135	20	
Chlorobenzene	03/14/2017	21:22	14.7	12.0	122	12	79-120	20	*FAIL*
Chloroethane	03/14/2017	21:22	14.7	12.0	122	2	59-139	20	
Chloroform	03/14/2017	21:22	14.9	12.0	124	11	78-123	20	*FAIL*
Chloromethane	03/14/2017	21:22	15.4	12.0	128	6	50-136	20	
cis-1,2-Dichloroethene	03/14/2017	21:22	14.5	12.0	121	6	77-123	20	
cis-1,3-Dichloropropene	03/14/2017	21:22	14.0	12.0	117	10	74-126	20	
Dibromochloromethane	03/14/2017	21:22	13.7	12.0	114	12	74-126	20	
Dibromomethane	03/14/2017	21:22	14.3	12.0	119	7	78-125	20	
Dichlorodifluoromethane	03/14/2017	21:22	16.9	12.0	141	8	29-149	20	
Ethylbenzene	03/14/2017	21:22	14.9	12.0	124	10	76-122	20	*FAIL*
Freon 113	03/14/2017	21:22	33.5	24.1	139	11	66-136	20	*FAIL*
Hexachlorobutadiene	03/14/2017	21:22	15.2	12.0	127	10	61-135	20	
Iodomethane	03/14/2017	21:22	28.1	24.1	117	6	71-131	20	
Isopropylbenzene	03/14/2017	21:22	15.1	12.0	126	14	68-134	20	
m & p-Xylene	03/14/2017	21:22	29.5	24.1	122	11	77-124	20	
Methyl tert-butyl ether	03/14/2017	21:22	15.1	12.0	126	11	73-125	20	*FAIL*
Methylene chloride	03/14/2017	21:22	9.39	12.0	78	15	70-128	20	
Naphthalene	03/14/2017	21:22	13.1	12.0	109	11	62-129	20	
n-Butylbenzene	03/14/2017	21:22	15.2	12.0	127	12	70-128	20	
n-Propylbenzene	03/14/2017	21:22	14.7	12.0	122	10	73-125	20	
o-Xylene	03/14/2017	21:22	14.1	12.0	118	11	77-123	20	
p-Isopropyltoluene	03/14/2017	21:22	14.3	12.0	119	12	73-127	20	
sec-Butylbenzene	03/14/2017	21:22	15.1	12.0	126	9	73-126	20	
Styrene	03/14/2017	21:22	3.49	12.0	29	52	76-124	20	*FAIL*
tert-Butylbenzene	03/14/2017	21:22	14.5	12.0	121	5	73-125	20	
Tetrachloroethene	03/14/2017	21:22	15.8	12.0	132	10	73-128	20	*FAIL*

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DF-SB47-18-1703

Lab Name: CT Laboratories Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Matrix: SOIL SDG No.: 125865

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 135664 Sample No.: 840892 Parent Sample No.: 840891

Analytical Prep Batch #: 61516 Analytical Preparation Date/Time: 03/14/2017 09:25

ICAL Calibration #: LS031317

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Toluene	03/14/2017	21:22	14.8	12.0	114	8	77-121	20	
trans-1,2-Dichloroethene	03/14/2017	21:22	15.3	12.0	128	8	74-125	20	*FAIL*
trans-1,3-Dichloropropene	03/14/2017	21:22	14.1	12.0	118	14	71-130	20	
Trichloroethene	03/14/2017	21:22	15.2	12.0	127	7	77-123	20	*FAIL*
Trichlorofluoromethane	03/14/2017	21:22	16.3	12.0	136	8	62-140	20	
Vinyl acetate	03/14/2017	21:22	63.4	120	53	21	50-151	20	*FAIL*
Vinyl chloride	03/14/2017	21:22	16.0	12.0	133	8	56-135	20	

RPD or Spike Recovery: 17 out of 69 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

LCS

SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Sample No.: 840890
SDG No.: 125865
Analytical Method: EPA 8260C
Concentration Units: ug/kg

Sample No.: 840890
Parent Sample No.: 0
Analytical Prep Batch #: 61516
Analytical Preparation Date/Time: 03/14/2017 09:25
Analytical Run #: 135664
ICAL Calibration #: LS031317

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1,2-Tetrachloroethane	03/14/2017	11:21	78-125	10.3		10.0	103
1,1,1-Trichloroethane	03/14/2017	11:21	73-130	11.4		10.0	114
1,1,2,2-Tetrachloroethane	03/14/2017	11:21	70-124	10.4		10.0	104
1,1,2-Trichloroethane	03/14/2017	11:21	78-121	10.5		10.0	105
1,1-Dichloroethane	03/14/2017	11:21	76-125	10.8		10.0	108
1,1-Dichloroethene	03/14/2017	11:21	70-131	11.4		10.0	114
1,1-Dichloropropene	03/14/2017	11:21	76-125	10.9		10.0	109
1,2,3-Trichlorobenzene	03/14/2017	11:21	66-130	10.8		10.0	108
1,2,3-Trichloropropane	03/14/2017	11:21	73-125	9.90		10.0	99
1,2,4-Trichlorobenzene	03/14/2017	11:21	67-129	10.9		10.0	109
1,2,4-Trimethylbenzene	03/14/2017	11:21	75-123	11.2		10.0	112
1,2-Dibromo-3-chloropropane	03/14/2017	11:21	61-132	10.8		10.0	108
1,2-Dibromoethane	03/14/2017	11:21	78-122	10.2		10.0	102
1,2-Dichlorobenzene	03/14/2017	11:21	78-121	10.5		10.0	105
1,2-Dichloroethane	03/14/2017	11:21	73-128	10.5		10.0	105
1,2-Dichloropropane	03/14/2017	11:21	76-123	10.9		10.0	109
1,3,5-Trimethylbenzene	03/14/2017	11:21	73-124	11.3		10.0	113
1,3-Dichlorobenzene	03/14/2017	11:21	77-121	10.9		10.0	109
1,3-Dichloropropane	03/14/2017	11:21	77-121	10.5		10.0	105
1,4-Dichlorobenzene	03/14/2017	11:21	75-120	10.7		10.0	107
1-Chlorohexane	03/14/2017	11:21	71-130	10.8		10.0	108
2,2-Dichloropropane	03/14/2017	11:21	67-133	11.7		10.0	117
2-Butanone	03/14/2017	11:21	51-148	105		100	105
2-Chlorotoluene	03/14/2017	11:21	75-122	10.9		10.0	109
2-Hexanone	03/14/2017	11:21	53-145	105		100	105
4-Chlorotoluene	03/14/2017	11:21	72-124	10.9		10.0	109
4-Methyl-2-pentanone	03/14/2017	11:21	65-135	108		100	108
Acetone	03/14/2017	11:21	36-164	111		100	111

CT LABORATORIES
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3B

SOIL VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCS**

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Sample No.: 840890
SDG No.: 125865
Analytical Method: EPA 8260C
Concentration Units: ug/kg

Sample No.: 840890
Parent Sample No.: 0
Analytical Prep Batch #: 61516
Analytical Preparation Date/Time: 03/14/2017 09:25
Analytical Run #: 135664
ICAL Calibration #: LS031317

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Benzene	03/14/2017	11:21	77-121	11.0		10.0	110
Bromobenzene	03/14/2017	11:21	78-121	11.0		10.0	110
Bromochloromethane	03/14/2017	11:21	78-125	10.7		10.0	107
Bromodichloromethane	03/14/2017	11:21	75-127	10.8		10.0	108
Bromoform	03/14/2017	11:21	67-132	9.60		10.0	96
Bromomethane	03/14/2017	11:21	53-143	11.9		10.0	119
Carbon disulfide	03/14/2017	11:21	63-132	22.9		20.0	114
Carbon tetrachloride	03/14/2017	11:21	70-135	11.6		10.0	116
Chlorobenzene	03/14/2017	11:21	79-120	10.7		10.0	107
Chloroethane	03/14/2017	11:21	59-139	11.4		10.0	114
Chloroform	03/14/2017	11:21	78-123	11.0		10.0	110
Chloromethane	03/14/2017	11:21	50-136	11.1		10.0	111
cis-1,2-Dichloroethene	03/14/2017	11:21	77-123	10.5		10.0	105
cis-1,3-Dichloropropene	03/14/2017	11:21	74-126	10.3		10.0	103
Dibromochloromethane	03/14/2017	11:21	74-126	10.0		10.0	100
Dibromomethane	03/14/2017	11:21	78-125	10.3		10.0	103
Dichlorodifluoromethane	03/14/2017	11:21	29-149	12.8		10.0	128
Ethylbenzene	03/14/2017	11:21	76-122	10.9		10.0	109
Freon 113	03/14/2017	11:21	66-136	23.5		20.0	118
Hexachlorobutadiene	03/14/2017	11:21	61-135	11.0		10.0	110
Iodomethane	03/14/2017	11:21	71-131	21.7		20.0	108
Isopropylbenzene	03/14/2017	11:21	68-134	11.1		10.0	111
m & p-Xylene	03/14/2017	11:21	77-124	21.7		20.0	108
Methyl tert-butyl ether	03/14/2017	11:21	73-125	10.3		10.0	103
Methylene chloride	03/14/2017	11:21	70-128	8.90		10.0	89
Naphthalene	03/14/2017	11:21	62-129	10.8		10.0	108
n-Butylbenzene	03/14/2017	11:21	70-128	10.9		10.0	109
n-Propylbenzene	03/14/2017	11:21	73-125	11.0		10.0	110

CT LABORATORIES
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3B

Sample Description

LCS

SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Sample No.: 840890
SDG No.: 125865
Analytical Method: EPA 8260C
Concentration Units: ug/kg

Sample No.: 840890
Parent Sample No.: 0
Analytical Prep Batch #: 61516
Analytical Preparation Date/Time: 03/14/2017 09:25
Analytical Run #: 135664
ICAL Calibration #: LS031317

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
o-Xylene	03/14/2017	11:21	77-123	10.7		10.0	107
p-Isopropyltoluene	03/14/2017	11:21	73-127	11.3		10.0	113
sec-Butylbenzene	03/14/2017	11:21	73-126	11.3		10.0	113
Styrene	03/14/2017	11:21	76-124	10.7		10.0	107
tert-Butylbenzene	03/14/2017	11:21	73-125	11.3		10.0	113
Tetrachloroethene	03/14/2017	11:21	73-128	11.1		10.0	111
Toluene	03/14/2017	11:21	77-121	10.8		10.0	108
trans-1,2-Dichloroethene	03/14/2017	11:21	74-125	11.2		10.0	112
trans-1,3-Dichloropropene	03/14/2017	11:21	71-130	10.3		10.0	103
Trichloroethene	03/14/2017	11:21	77-123	11.3		10.0	113
Trichlorofluoromethane	03/14/2017	11:21	62-140	11.5		10.0	115
Vinyl acetate	03/14/2017	11:21	50-151	94.1		100	94
Vinyl chloride	03/14/2017	11:21	78-124	11.5		10.0	115

Spike Recovery: 0 out of 69 outside limits

CT LABORATORIES
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4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Sample ID:	840889	SDG No.:	125865
Matrix:	SOLID	Date Extracted:	03/14/2017
Date Analyzed:	03/14/2017	Time Analyzed:	12:18
Analytical Method:	EPA 8260C	Extraction Method:	SW5035
Analytical Run #:	135664	Extraction Batch #:	61516
		ICAL Calibration #:	LS031317

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	BFB	841340	03/14/2017 10:09	
2	CCV	841341	03/14/2017 10:52	LS031317
3	LCSS	840890	03/14/2017 11:21	LS031317
4	MBS	840889	03/14/2017 12:18	LS031317
5	DF-SB47-18-1703	840394	03/14/2017 12:47	LS031317
6	DF-SB38-15-1703	840395	03/14/2017 13:15	LS031317
7	DF-SB44-11-1703	840396	03/14/2017 13:43	LS031317
8	DF-SB37-11-1703	840397	03/14/2017 14:12	LS031317
9	DF-SB22-19-1703	840399	03/14/2017 14:41	LS031317
10	DF-SB23-16-1703	840400	03/14/2017 15:09	LS031317
11	DF-SB24-17-1703	840401	03/14/2017 15:38	LS031317
12	DF-SB25-5-1703	840402	03/14/2017 16:06	LS031317
13	DF-SB26-10-1703	840403	03/14/2017 16:35	LS031317
14	DF-SB14-19-1703	840404	03/14/2017 17:04	LS031317
15	DF-SB01-12-1703	840405	03/14/2017 17:33	LS031317
16	DF-SB08-17-1703	840406	03/14/2017 18:01	LS031317
17	DF-SB10-9-1703	840407	03/14/2017 18:30	LS031317
18	DF-FD-01	840408	03/14/2017 18:59	LS031317
19	DF-SB11-10-1703	840409	03/14/2017 19:27	LS031317
20	DF-SB04-10-1703	840410	03/14/2017 19:56	LS031317
21	DF-SB05-18-1703	840413	03/14/2017 20:25	LS031317
22	DF-SB47-18-1703MSS	840891	03/14/2017 20:53	LS031317
23	DF-SB47-18-1703MSDS	840892	03/14/2017 21:22	LS031317
24	CCVF	841811	03/14/2017 21:51	LS031317

CT LABORATORIES
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4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Sample ID:	843218	SDG No.:	125865
Matrix:	LIQUID	Date Extracted:	
Date Analyzed:	03/17/2017	Time Analyzed:	09:28
Analytical Method:	EPA 8260C	Extraction Method:	NONE
Analytical Run #:	135661	Extraction Batch #:	0
		ICAL Calibration #:	LW031517

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	BFB	843156	03/17/2017 07:48	
2	LCSW	843150	03/17/2017 08:31	LW031517
3	CCV	843151	03/17/2017 08:31	LW031517
4	MBW	843218	03/17/2017 09:28	LW031517
5	TB-01	840414	03/17/2017 09:57	LW031517
6	TB-02	840415	03/17/2017 10:25	LW031517
7	RB-01	840398	03/17/2017 10:54	LW031517
8	RB-02	840416	03/17/2017 11:22	LW031517
9	LCSDW	843459	03/17/2017 14:15	LW031517
10	CCVF	844217	03/17/2017 14:15	LW031517

BFB

Data File : C:\Instarch\Data\MAR1317\BFB1.D Vial: 1
Acq On : 13 Mar 2017 15:23 Operator: RLD-AGK
Sample : BFB INJ Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS031317.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.765 to 4.790 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	6022	PASS
75	95	30	60	51.0	12819	PASS
95	95	100	100	100.0	25125	PASS
96	95	5	9	6.7	1671	PASS
173	174	0.00	2	0.8	165	PASS
174	95	50	100	87.5	21995	PASS
175	174	5	9	5.1	1127	PASS
176	174	95	101	99.8	21949	PASS
177	176	5	9	7.1	1551	PASS

LS031317.M Fri Mar 17 13:45:53 2017

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Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS031317.M
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR1317\BFB1.D
Injection Date : 13 Mar 2017 Log Time Period (hrs) : ALL
Injection Time : 15:23 Total files within period : 16
Sample Directory : C:\INSTARCH\DATA\MAR1317\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
LLCALS1	1.00	1.00	1.00	CALIB. PT. 1 0.001/0.010 mg/kg, 1	13 Mar 2017	17:07
LLCALS2	1.00	1.00	1.00	CALIB. PT. 2 0.002/0.020 mg/kg, 1	13 Mar 2017	17:37
LLCALS3	1.00	1.00	1.00	CALIB. PT. 3 0.005/0.050 mg/kg, 1	13 Mar 2017	18:05
LLCALS4	1.00	1.00	1.00	CALIB. PT. 4 0.010/0.100 mg/kg, 1	13 Mar 2017	18:34
LLCALS5	1.00	1.00	1.00	CALIB. PT. 5 0.020/0.200 mg/kg, 1	13 Mar 2017	19:03
LLCALS6	1.00	1.00	1.00	CALIB. PT. 6 0.030/0.300 mg/kg, 1	13 Mar 2017	19:31
LLCALS7	1.00	1.00	1.00	CALIB. PT. 7 0.040/0.400 mg/kg, 1	13 Mar 2017	20:00
LLCALS8	1.00	1.00	1.00	CALIB. PT. 8 0.080/0.800 mg/kg, 1	13 Mar 2017	20:29
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.010/0.100 mg/kg, 1	13 Mar 2017	21:26
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.030/0.300 mg/kg, 1	13 Mar 2017	21:55
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 5.00g, 15.0 ml Purge	13 Mar 2017	22:53

BFB

Data File : C:\Instarch\Data\MAR1417\BFB1.D Vial: 1
Acq On : 14 Mar 2017 10:09 Operator: RLD-AGK
Sample : 135664,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS031317.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.755 to 4.777 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	24797	PASS
75	95	30	60	45.9	45897	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.7	7662	PASS
173	174	0.00	2	0.3	225	PASS
174	95	50	100	83.2	83239	PASS
175	174	5	9	8.5	7083	PASS
176	174	95	101	96.5	80285	PASS
177	176	5	9	5.7	4593	PASS

LS031317.M Mon Mar 20 08:25:31 2017

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR1417\BFB1.D
Injection Date : 14 Mar 2017 Log Time Period (hrs) : ALL
Injection Time : 10:09 Total files within period : 25
Sample Directory : C:\INSTARCH\DATA\MAR1417\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
CCV1	1.00	1.00	1.00	135664,CCV, 0.010/0.100 mg/kg, 15.0 m	14 Mar 2017	10:52
LCS1	1.00	1.00	1.00	135664,LCSS, 5.00g, 0.010/0.100 mg/kg,	14 Mar 2017	11:21
MB1	1.00	1.00	1.00	135664,MBS, 5.00g, 15.0 ml Purged + I	14 Mar 2017	12:18
840394	1.00	1.00	1.00	135664,840394, 5.65g, 15.0 ml Purged + I	14 Mar 2017	12:47
840395	1.00	1.00	1.00	135664,840395, 6.22g, 15.0 ml Purged + I	14 Mar 2017	13:15
840396	1.00	1.00	1.00	135664,840396, 6.47g, 15.0 ml Purged + I	14 Mar 2017	13:43
840397	1.00	1.00	1.00	135664,840397, 6.72g, 15.0 ml Purged + I	14 Mar 2017	14:12
840399	1.00	1.00	1.00	135664,840399, 5.79g, 15.0 ml Purged + I	14 Mar 2017	14:41
840400	1.00	1.00	1.00	135664,840400, 6.17g, 15.0 ml Purged + I	14 Mar 2017	15:09
840401	1.00	1.00	1.00	135664,840401, 6.59g, 15.0 ml Purged + I	14 Mar 2017	15:38
840402	1.00	1.00	1.00	135664,840402, 5.99g, 15.0 ml Purged + I	14 Mar 2017	16:06
840403	1.00	1.00	1.00	135664,840403, 5.86g, 15.0 ml Purged + I	14 Mar 2017	16:35
840404	1.00	1.00	1.00	135664,840404, 5.08g, 15.0 ml Purged + I	14 Mar 2017	17:04
840405	1.00	1.00	1.00	135664,840405, 8.11g, 15.0 ml Purged + I	14 Mar 2017	17:33
840406	1.00	1.00	1.00	135664,840406, 6.82g, 15.0 ml Purged + I	14 Mar 2017	18:01
840407	1.00	1.00	1.00	135664,840407, 5.79g, 15.0 ml Purged + I	14 Mar 2017	18:30
840408	1.00	1.00	1.00	135664,840408, 6.61g, 15.0 ml Purged + I	14 Mar 2017	18:59
840409	1.00	1.00	1.00	135664,840409, 5.91g, 15.0 ml Purged + I	14 Mar 2017	19:27
840410	1.00	1.00	1.00	135664,840410, 6.77g, 15.0 ml Purged + I	14 Mar 2017	19:56
840413	1.00	1.00	1.00	135664,840413, 6.99g, 15.0 ml Purged + I	14 Mar 2017	20:25

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR1417\BFB1.D
Injection Date : 14 Mar 2017 Log Time Period (hrs) : ALL
Injection Time : 10:09 Total files within period : 25
Sample Directory : C:\INSTARCH\DATA\MAR1417\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
840394MS	1.00	1.00	1.00	135664,MSS840394, 4.93g, 0.010/0.100 mg/kg,	14 Mar 2017	20:53
840394SD	1.00	1.00	1.00	135664,MSDS840394, 4.68g, 0.010/0.100 mg/kg,	14 Mar 2017	21:22
CCVF1	1.00	1.00	1.00	135664,CCVF, 0.010/0.100 mg/kg, 15.0 m	14 Mar 2017	21:51

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): LLCALS4.D Date Analyzed : 13 Mar 2017
Instrument ID : VMS4 Time Analyzed : 18:34
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	1123993	7.78	882719	11.71	485330	15.02
UPPER LIMIT	2247986	8.28	1765438	12.21	970660	15.52
LOWER LIMIT	561997	7.28	441360	11.21	242665	14.52
File ID Sample						
840394 135664,84	970320	7.77	788021	11.71	419298	15.02
840394MS 135664,MS	1113910	7.78	898623	11.71	501409	15.02
840394SD 135664,MS	1128247	7.77	886664	11.71	503899	15.02
840395 135664,84	1046387	7.77	864649	11.71	474940	15.02
840396 135664,84	921969	7.78	760069	11.71	414242	15.02
840397 135664,84	1121168	7.77	923737	11.71	491674	15.02
840399 135664,84	697747	7.78	579018	11.71	325337	15.02
840400 135664,84	1134543	7.77	928191	11.71	508976	15.02
840401 135664,84	1092066	7.77	906445	11.71	495729	15.02
840402 135664,84	1088704	7.77	876579	11.71	483304	15.02
840403 135664,84	982061	7.77	800798	11.71	444452	15.02
840404 135664,84	1106154	7.77	907366	11.71	499025	15.02
840405 135664,84	1043029	7.77	859792	11.71	471882	15.02
840406 135664,84	961302	7.78	786000	11.71	439429	15.02
840407 135664,84	1067015	7.77	868246	11.71	477373	15.02
840408 135664,84	1079309	7.77	892603	11.71	482676	15.02
840409 135664,84	979354	7.77	804240	11.71	439668	15.02
840410 135664,84	1047275	7.78	855103	11.71	475969	15.02
840413 135664,84	963279	7.77	808395	11.71	438062	15.02
CCV1 135664,CC	1184707	7.78	922229	11.71	508869	15.02
CCVF1 135664,CC	1085642	7.77	839723	11.71	467261	15.02
LCS1 135664,LC	1132475	7.77	911624	11.71	493357	15.02
MB1 135664,MB	1071769	7.77	858548	11.71	471874	15.02

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

BFB

Data File : C:\Instarch\Data\MAR1517B\BFB1.D Vial: 1
Acq On : 15 Mar 2017 16:04 Operator: RLD-AGK
Sample : BFB INJ Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW031517.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.761 to 4.781 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	7658	PASS
75	95	30	60	51.5	15141	PASS
95	95	100	100	100.0	29413	PASS
96	95	5	9	6.3	1842	PASS
173	174	0.00	2	0.4	103	PASS
174	95	50	100	89.0	26165	PASS
175	174	5	9	5.4	1402	PASS
176	174	95	101	98.4	25754	PASS
177	176	5	9	7.7	1975	PASS

LW031517.M Fri Mar 17 10:24:13 2017

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Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW031517.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR1517B\BFB1.D
Injection Date : 15 Mar 2017 Log Time Period (hrs) : ALL
Injection Time : 16:04 Total files within period : 20
Sample Directory : C:\INSTARCH\DATA\MAR1517B\

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	15 Mar 2017 17:49
LLCALW2	1.00	1.00	1.00	CALIB. PT. 2 0.50/5.00 ug/L, 25.0	15 Mar 2017 18:17
LLCALW3	1.00	1.00	1.00	CALIB. PT. 3 1.00/10.00 ug/L, 25.	15 Mar 2017 18:46
LLCALW4	1.00	1.00	1.00	CALIB. PT. 4 2.00/20.00 ug/L, 25.	15 Mar 2017 19:15
LLCALW5	1.00	1.00	1.00	CALIB. PT. 5 4.00/40.00 ug/L, 25.	15 Mar 2017 19:43
LLCALW6	1.00	1.00	1.00	CALIB. PT. 6 6.00/60.00 ug/L, 25.	15 Mar 2017 20:12
LLCALW7	1.00	1.00	1.00	CALIB. PT. 7 8.00/80.00 ug/L, 25.	15 Mar 2017 20:40
LLCALW8	1.00	1.00	1.00	CALIB. PT. 8 16.00/160.0 ug/L, 25	15 Mar 2017 21:09
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 4.00/40.00 ug/L, 25.	15 Mar 2017 22:06
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 8.00/80.00, 25.0 ml	15 Mar 2017 22:34
ICB1	1.00	1.00	1.00	INITIAL CALIB BLANK pH<2, 25.0 ml DI H2O	15 Mar 2017 23:59

BFB

Data File : C:\Instarch\Data\MAR1617\BFB2.D Vial: 27
Acq On : 17 Mar 2017 7:48 Operator: RLD-AGK
Sample : 135661,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW031517.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.784 to 4.790 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	11101	PASS
75	95	30	60	50.5	24913	PASS
95	95	100	100	100.0	49317	PASS
96	95	5	9	6.2	3037	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.5	43659	PASS
175	174	5	9	6.4	2781	PASS
176	174	95	101	96.4	42073	PASS
177	176	5	9	7.9	3331	PASS

LW031517.M Mon Mar 20 09:10:35 2017

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR1617\BFB1.D
Injection Date : 16 Mar 2017 Log Time Period (hrs) : ALL
Injection Time : 08:20 Total files within period : 41
Sample Directory : C:\INSTARCH\DATA\MAR1617\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
BFB2	1.00	1.00	1.00	135661,BFB, 50 ng Injection	17 Mar 2017	07:48
CCV-LCS2	1.00	1.00	1.00	135661,LCSW, 4.00/40.00 ug/L, 25.0 ml	17 Mar 2017	08:31
MB2-CCB1	1.00	1.00	1.00	135661,MBW, pH<2, 25.0 ml DI H2O Purg	17 Mar 2017	09:28
840414	1.00	1.00	1.00	135661,840414, pH<2, 25.0 ml Purged + IS	17 Mar 2017	09:57
840415	1.00	1.00	1.00	135661,840415, pH<2, 25.0 ml Purged + IS	17 Mar 2017	10:25
840398	1.00	1.00	1.00	135661,840398, pH<2, 25.0 ml Purged + IS	17 Mar 2017	10:54
840416	1.00	1.00	1.00	135661,840416, pH<2, 25.0 ml Purged + IS	17 Mar 2017	11:22
LCSD1-~1	1.00	1.00	1.00	135661,LCSDW, 4.00/40.00 ug/L, 25.0 ml	17 Mar 2017	14:15

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): LLCALW5.D Date Analyzed : 15 Mar 2017
Instrument ID : VMS4 Time Analyzed : 19:43
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	1297498	7.77	1042841	11.71	608280	15.02
UPPER LIMIT	2594996	8.27	2085682	12.21	1216560	15.52
LOWER LIMIT	648749	7.27	521421	11.21	304140	14.52
File ID Sample						
840398 135661,84	1259848	7.78	1024153	11.71	551556	15.02
840414 135661,84	1246194	7.78	1000129	11.71	543314	15.02
840415 135661,84	1252563	7.78	1014846	11.71	554873	15.02
840416 135661,84	1210466	7.78	983256	11.71	538646	15.02
CCV-LCS1 135571,LC	1326524	7.78	1047915	11.71	607647	15.02
CCV-LCS2 135661,LC	1336852	7.78	1071771	11.71	608097	15.02
CCVF1 135571,CC	1300445	7.78	1045090	11.71	594214	15.02
LCSD1-~1 135661,LC	1268227	7.78	1020897	11.71	579736	15.02
MB1 135571,MB	1224780	7.77	1011667	11.71	536931	15.02
MB2-CCB1 135661,MB	1244981	7.77	1009316	11.71	537633	15.02

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\MAR1417\840394.D Vial: 7
Acq On : 14 Mar 2017 12:47 Operator: RLD-AGK
Sample : 135664,840394, Inst : VMS4
Misc : 5.65g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 13:07:38 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	970320	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	788021	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	419298	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	227853	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	60296	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.79	98	962254	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	350829	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	5631	N.D.		
3) Chloromethan	2.13	50	2498	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	3036	N.D.		
6) Chloroethane	2.84	64	1330	N.D.		
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	4.13	43	80750	0.0182	mg/kg	98
16) Iodomethane	4.23	142	1778	0.0017	mg/kg#	53
17) Carbon Dislf	4.30	76	5483	N.D.		
18) allylchloride	4.51	41	4976	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	7130	Below Cal		97
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.93	59	4765	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	5966	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	6.39	72	1426	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	6.72	42	4137	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840394.D Vial: 7
Acq On : 14 Mar 2017 12:47 Operator: RLD-AGK
Sample : 135664,840394, Inst : VMS4
Misc : 5.65g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 13:07:38 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.43	78	6230	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	9.65	43	2393	N.D.		
61)	Toluene	9.88	92	27895	0.0011	mg/kg	99
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	10.74	43	3999	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	11.71	91	2295	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.89	91	2038	N.D.		
75)	m p-Xylene	12.07	106	1837	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	13.35	55	1993	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	13.72	91	1682	N.D.		
88)	2chlorotolue	13.72	91	1498	N.D.		
89)	4chlorotolue	14.00	91	1145	N.D.		
90)	135Trimebenz	13.99	105	1321	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.53	105	7758	N.D.		
93)	sbutylbenzen	14.77	105	1042	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	15.00	119	1802	N.D.		
96)	14dichlorobe	15.04	146	1505	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.57	91	2360	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\MAR1417\840394.D Vial: 7
Acq On : 14 Mar 2017 12:47 Operator: RLD-AGK
Sample : 135664,840394, Inst : VMS4
Misc : 5.65g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 13:07:38 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.15	128	4707	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

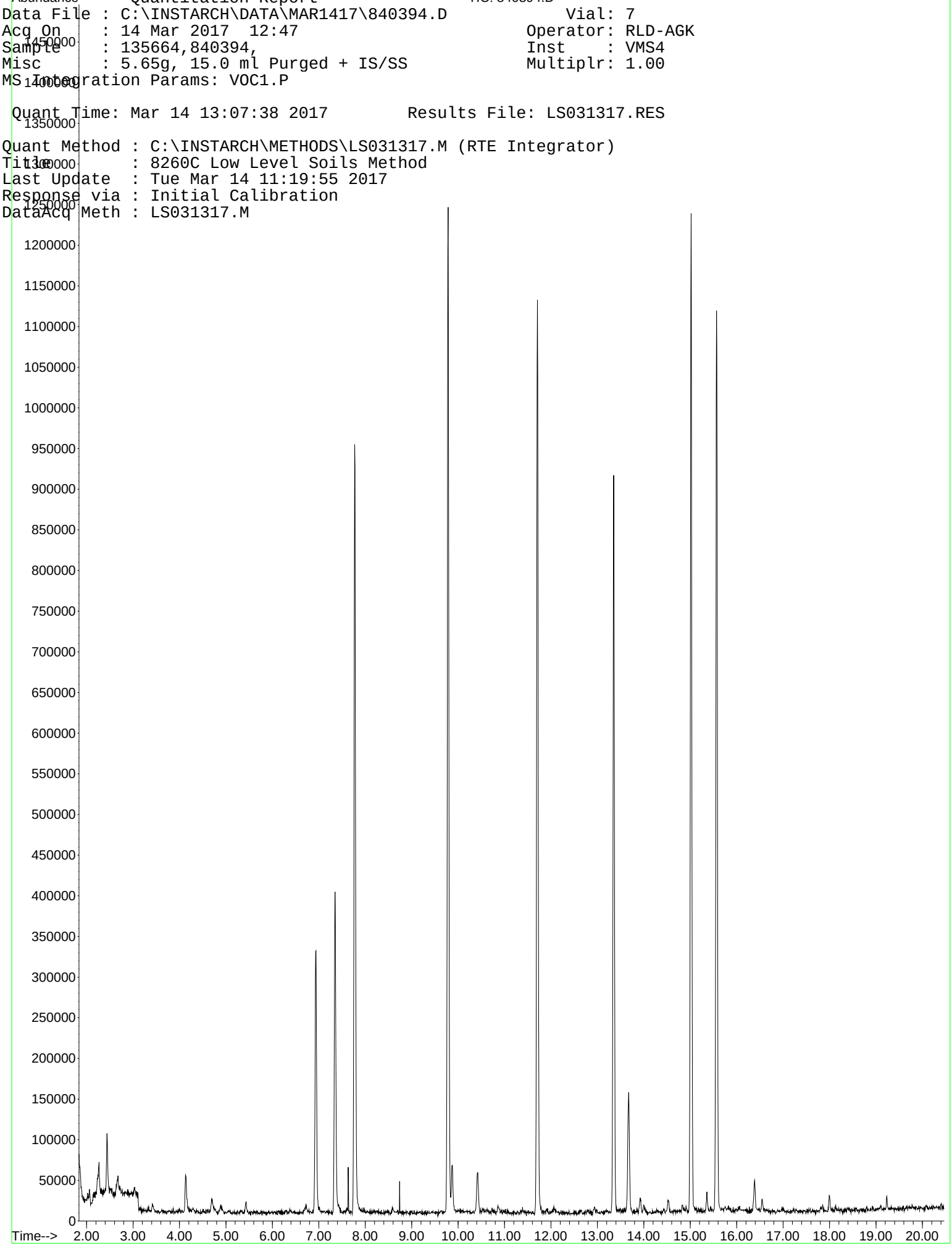
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840394.D

Data File : C:\INSTARCH\DATA\MAR1417\840394.D Vial: 7
Acq On : 14 Mar 2017 12:47 Operator: RLD-AGK
Sample : 135664,840394, Inst : VMS4
Misc : 5.65g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 13:07:38 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840395.D Vial: 8
Acq On : 14 Mar 2017 13:15 Operator: RLD-AGK
Sample : 135664,840395, Inst : VMS4
Misc : 6.22g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 13:36:11 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1046387	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	864649	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	474940	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	253347	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	65643	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.79	98	1065133	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	379522	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	8452	N.D.		
3) Chloromethan	2.11	50	2991	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	2428	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	3.31	101	1108	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	3.92	56	1140	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	148275	0.0310	mg/kg	98
16) Iodomethane	4.23	142	2013	0.0017	mg/kg#	43
17) Carbon Dislf	4.30	76	4464	N.D.		
18) allylchloride	4.52	41	9827	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	37018	Below	Cal	95
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	8260	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.42	57	4050	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	6.41	72	1899	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	6.71	42	6450	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840395.D Vial: 8
Acq On : 14 Mar 2017 13:15 Operator: RLD-AGK
Sample : 135664,840395, Inst : VMS4
Misc : 6.22g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 13:36:11 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.42	78	4264	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	9.64	43	1467	N.D.		
61)	Toluene	9.87	92	1682	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	10.60	166	9900	0.0008	mg/kg	87
66)	13Diclorpropa	0.00	76	0	N.D.		
68)	2Hexanone	10.73	43	3249	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	11.71	91	2318	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	0.00	91	0	N.D.		
75)	m p-Xylene	12.06	106	2104	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	13.24	55	1073	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.68	75	3315	N.D.		
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.72	91	1278	N.D.		
88)	2chlorotolue	13.72	91	1278	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	13.85	105	1622	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.53	105	8572	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	14.98	119	2273	N.D.		
96)	14dichlorobe	15.05	146	1229	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.57	91	2433	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\MAR1417\840395.D Vial: 8
Acq On : 14 Mar 2017 13:15 Operator: RLD-AGK
Sample : 135664,840395, Inst : VMS4
Misc : 6.22g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 13:36:11 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

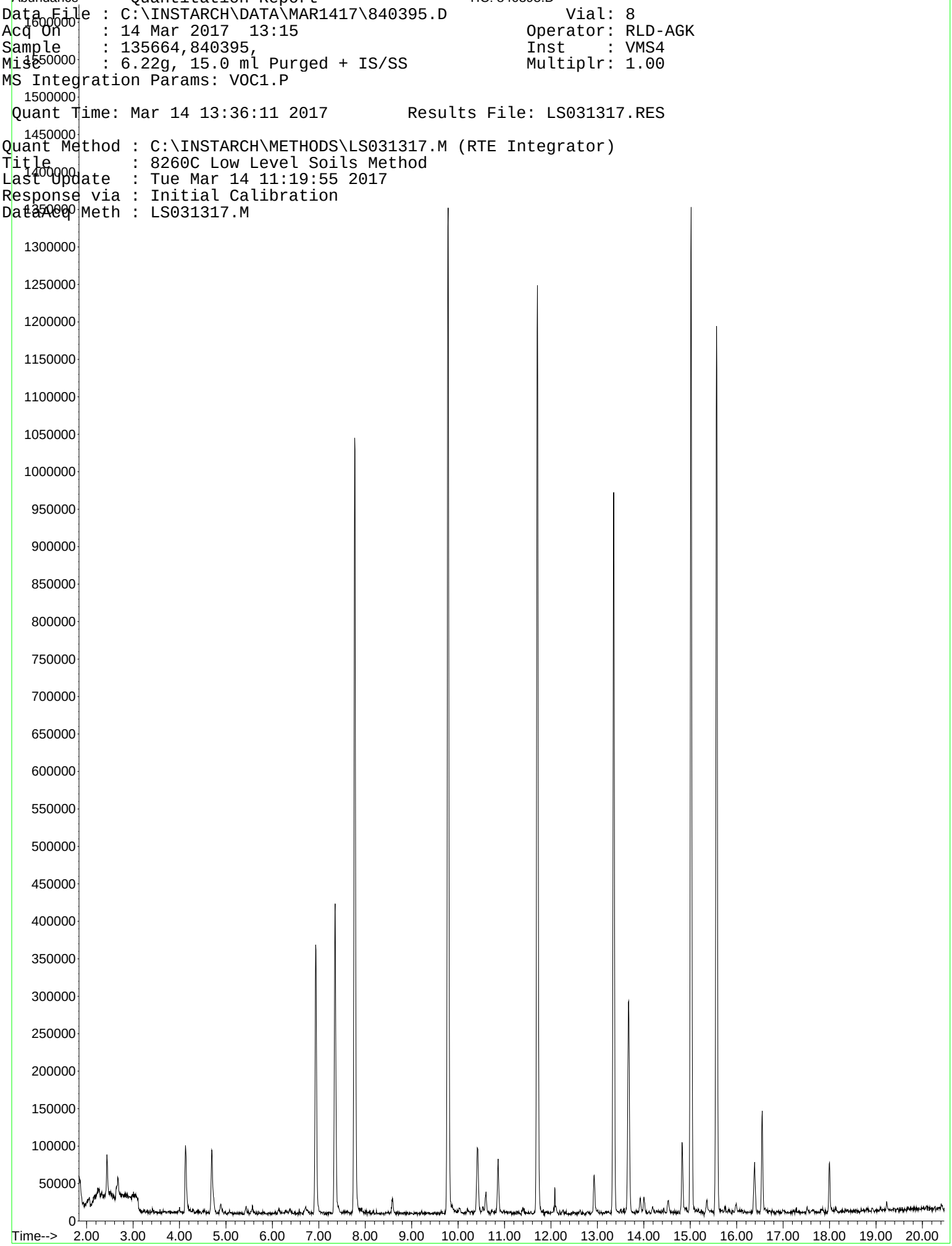
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	4514	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

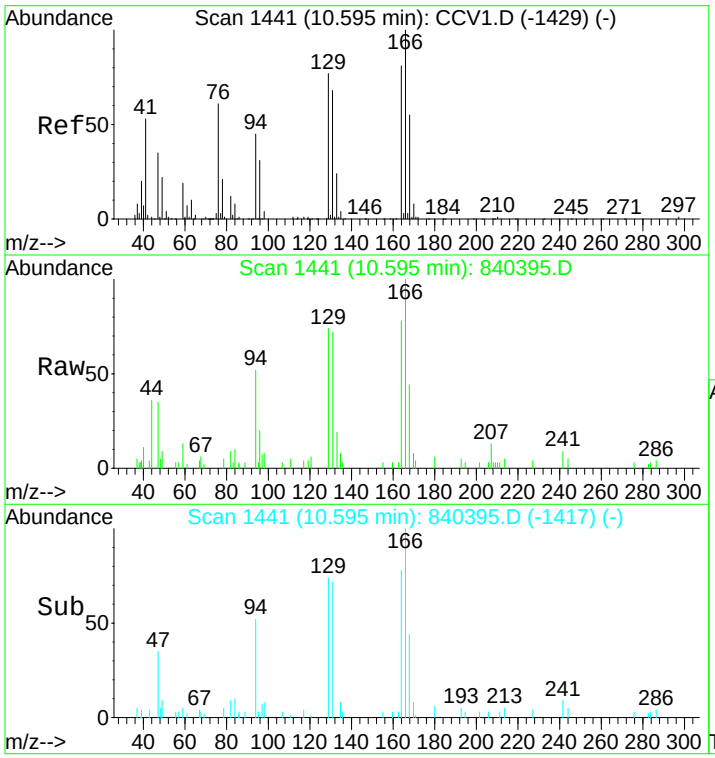
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\MAR1417\840395.D Vial: 8
Acq On : 14 Mar 2017 13:15 Operator: RLD-AGK
Sample : 135664,840395, Inst : VMS4
Misc : 6.22g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 13:36:11 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

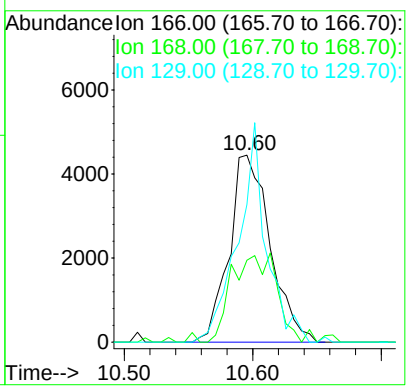




#65
Tetrachlorte
Concen: 0.00 mg/kg
RT: 10.60 min Scan# 1441
Delta R.T. -0.01 min
Lab File: 840395.D
Acq: 14 Mar 2017 13:15

Tgt Ion:166 Resp: 9900

Ion	Ratio	Lower	Upper
166	100		
168	51.2	27.8	67.8
129	81.3	46.7	86.7



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840396.D Vial: 9
Acq On : 14 Mar 2017 13:43 Operator: RLD-AGK
Sample : 135664,840396, Inst : VMS4
Misc : 6.47g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 14:04:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	921969	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	760069	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	414242	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	227436	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	59221	0.023	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %			
60) SURRd8Tolule	9.79	98	937537	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	343703	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	8429	N.D.		
3) Chloromethan	2.13	50	5901	0.0004	mg/kg	93
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.74	94	1460	N.D.		
6) Chloroethane	2.91	64	2197	N.D.		
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	3.92	56	2005	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	135764	0.0322	mg/kg	99
16) Iodomethane	4.22	142	1854	0.0017	mg/kg#	43
17) Carbon Dislf	4.30	76	6107	N.D.		
18) allylchloride	4.52	41	6615	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	8433	Below	Cal	90
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.91	59	6846	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.42	57	1782	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	6.38	72	3026	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	6.71	42	4549	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840396.D Vial: 9
Acq On : 14 Mar 2017 13:43 Operator: RLD-AGK
Sample : 135664,840396, Inst : VMS4
Misc : 6.47g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 14:04:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.10	56	1960	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.44	78	8119	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	8.71	88	1119	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	9.62	43	1900	N.D.		
61)	Toluene	9.88	92	14493	0.0006	mg/kg	92
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	10.73	43	6568	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	11.71	91	3005	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.90	91	1138	N.D.		
75)	m p-Xylene	12.07	106	1849	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	13.25	55	1279	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.67	75	7425	0.0006	mg/kg#	56
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.73	91	2202	N.D.		
88)	2chlorotolue	13.73	91	2027	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	13.98	105	1016	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.53	105	23754	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	14.99	119	1293	N.D.		
96)	14dichlorobe	15.05	146	1354	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.57	91	3571	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\MAR1417\840396.D Vial: 9
Acq On : 14 Mar 2017 13:43 Operator: RLD-AGK
Sample : 135664,840396, Inst : VMS4
Misc : 6.47g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 14:04:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

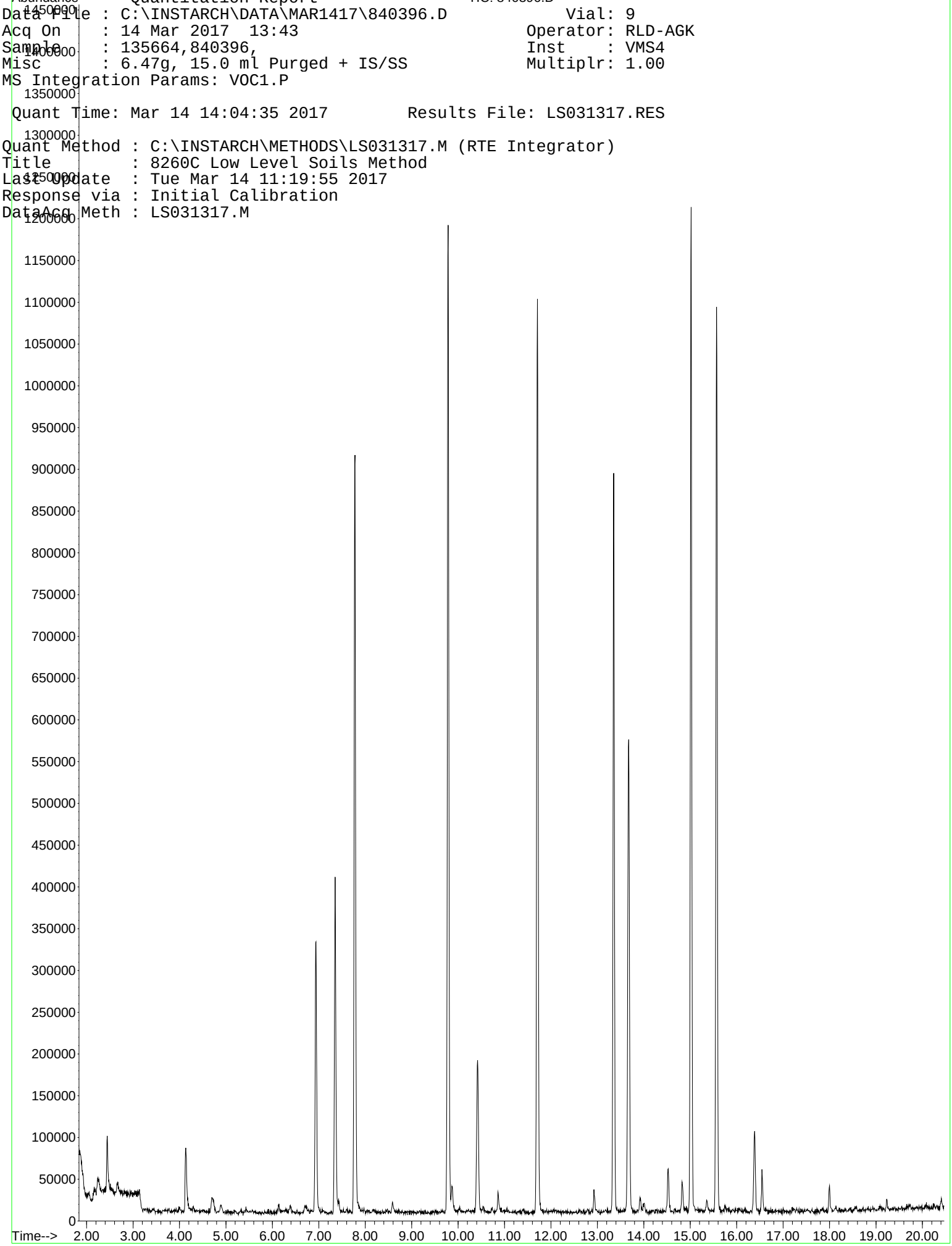
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	3785	N.D.	
104) 123Trichlben	18.44	180	1124	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\MAR1417\840396.D Vial: 9
Acq On : 14 Mar 2017 13:43 Operator: RLD-AGK
Sample : 135664,840396, Inst : VMS4
Misc : 6.47g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 14:04:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840397.D Vial: 10
Acq On : 14 Mar 2017 14:12 Operator: RLD-AGK
Sample : 135664,840397, Inst : VMS4
Misc : 6.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 14:33:07 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1121168	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	923737	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	491674	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	261412	0.018	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 90 %			
45) SURR12DCAd4	7.35	102	70133	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.79	98	1121808	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	419036	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	8629	N.D.		
3) Chloromethan	2.12	50	4542	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.74	94	2364	N.D.		
6) Chloroethane	2.89	64	2788	N.D.		
7) dichloroflmethane	3.24	67	1119	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	4.13	43	45191	N.D.		
16) Iodomethane	4.21	142	1150	0.0016	mg/kg#	43
17) Carbon Dislf	4.30	76	5868	N.D.		
18) allylchloride	4.52	41	8738	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	23117	Below	Cal	95
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.91	59	7210	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.42	57	2560	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	6.71	42	6583	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840397.D Vial: 10
Acq On : 14 Mar 2017 14:12 Operator: RLD-AGK
Sample : 135664,840397, Inst : VMS4
Misc : 6.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 14:33:07 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.43	78	13360	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	9.63	43	1308	N.D.		
61)	Toluene	9.87	92	18397	0.0006	mg/kg	100
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	10.74	43	1060	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	11.70	91	1624	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	0.00	91	0	N.D.		
75)	m p-Xylene	12.06	106	1401	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	13.35	55	1952	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.66	75	2030	N.D.		
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.72	91	1383	N.D.		
88)	2chlorotolue	13.72	91	1342	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	14.53	105	2693	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	15.01	146	1089	N.D.		
95)	pIsopropylto	14.98	119	1983	N.D.		
96)	14dichlorobe	15.01	146	1496	N.D.		
97)	12dichlorobe	15.59	146	1620	N.D.		
98)	nButylbenzen	15.57	91	1802	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	17.83	180	1011	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840397.D Vial: 10
Acq On : 14 Mar 2017 14:12 Operator: RLD-AGK
Sample : 135664,840397, Inst : VMS4
Misc : 6.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 14:33:07 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

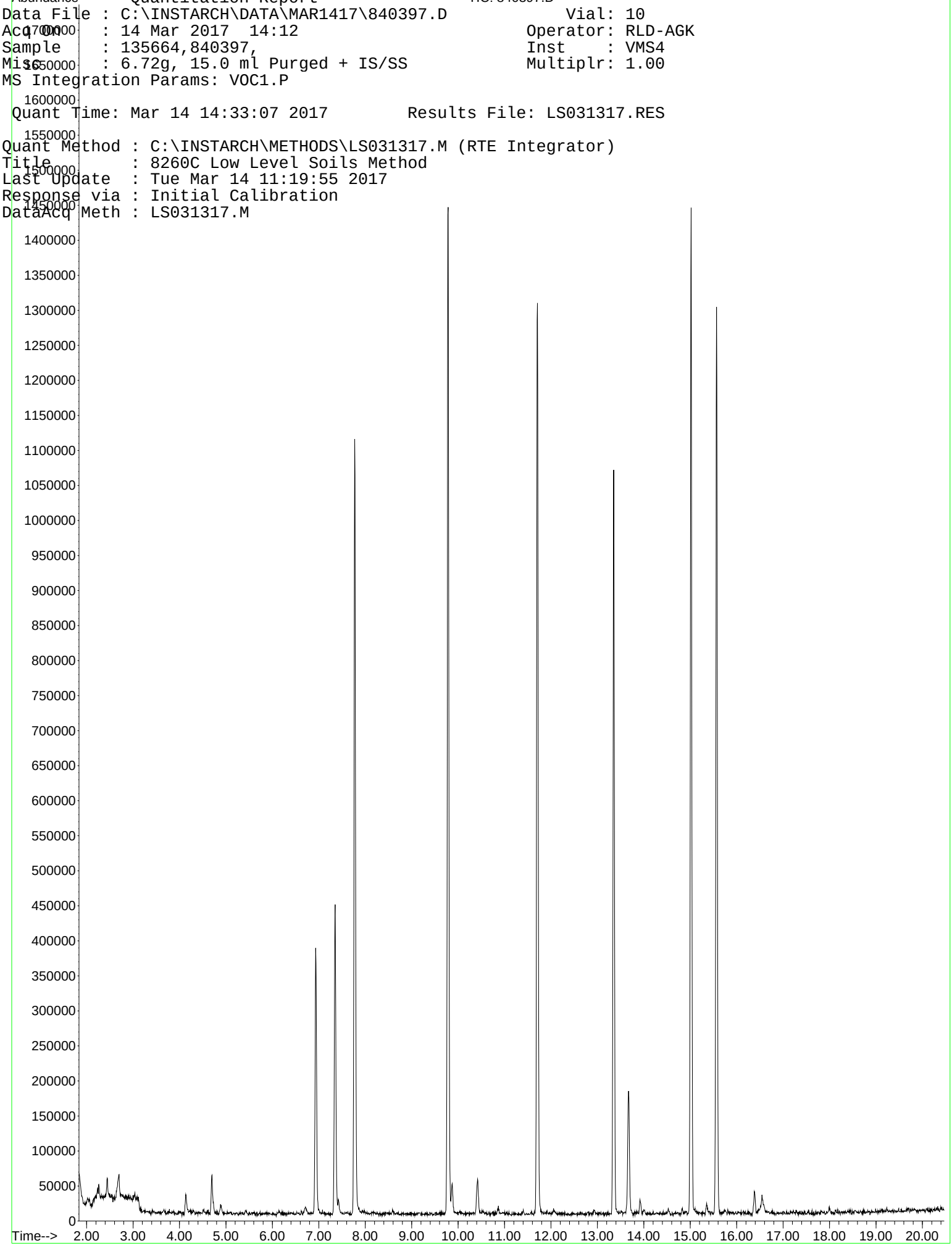
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	4094	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\MAR1417\840397.D Vial: 10
Acq On : 14 Mar 2017 14:12 Operator: RLD-AGK
Sample : 135664,840397, Inst : VMS4
Misc : 6.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 14:33:07 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840399.D Vial: 11
Acq On : 14 Mar 2017 14:41 Operator: RLD-AGK
Sample : 135664,840399, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:01:52 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	697747	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	579018	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	325337	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	167857	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	46746	0.024	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 120 %			
60) SURRd8Tolule	9.79	98	700969	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	265933	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	3146	N.D.		
3) Chloromethan	2.12	50	2431	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.14	43	78248	0.0245	mg/kg	100
16) Iodomethane	4.21	142	2524	0.0019	mg/kg#	89
17) Carbon Dislf	4.29	76	2932	N.D.		
18) allylchloride	4.52	41	10491	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	17609	Below	Cal	92
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	7744	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	3085	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	6.73	42	6955	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840399.D Vial: 11
Acq On : 14 Mar 2017 14:41 Operator: RLD-AGK
Sample : 135664,840399, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:01:52 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.43	78	5549	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	9.65	43	1005	N.D.	
61)	Toluene	9.87	92	21526	0.0012 mg/kg	99
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	10.75	43	2867	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	11.70	91	1483	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	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.66	75	1546	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	14.53	105	5105	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	15.56	91	1894	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\MAR1417\840399.D Vial: 11
Acq On : 14 Mar 2017 14:41 Operator: RLD-AGK
Sample : 135664,840399, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:01:52 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.12	128	2091	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

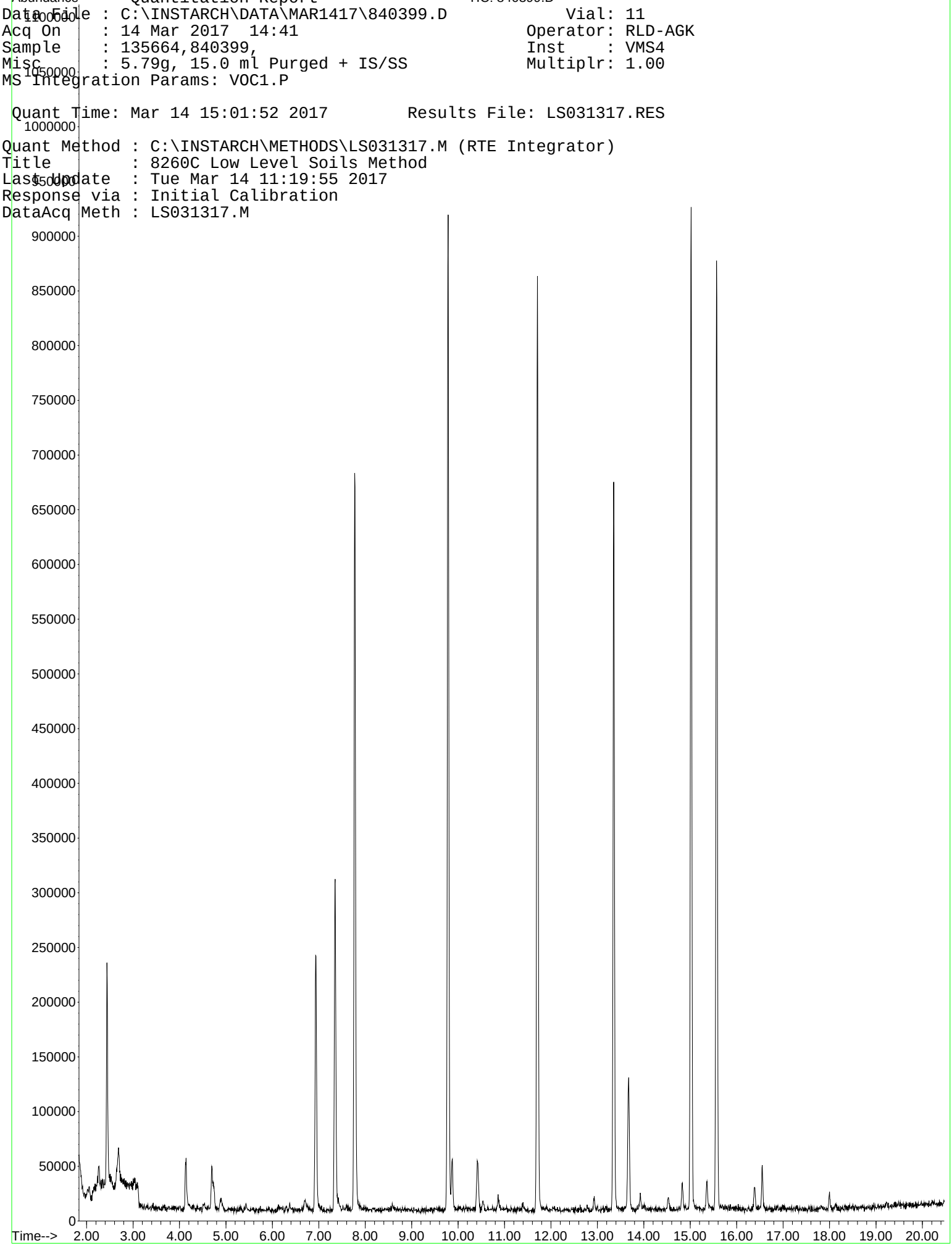
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840399.D

Data File : C:\INSTARCH\DATA\MAR1417\840399.D Vial: 11
Acq On : 14 Mar 2017 14:41 Operator: RLD-AGK
Sample : 135664,840399, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:01:52 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840400.D Vial: 12
Acq On : 14 Mar 2017 15:09 Operator: RLD-AGK
Sample : 135664,840400, Inst : VMS4
Misc : 6.17g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:30:13 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1134543	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	928191	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	508976	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	266235	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	72481	0.023	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %			
60) SURRd8Tolule	9.79	98	1136350	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	422384	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	6844	N.D.		
3) Chloromethan	2.12	50	4702	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.78	94	2335	N.D.		
6) Chloroethane	2.87	64	1414	N.D.		
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	3.90	56	1278	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	106182	0.0205	mg/kg	97
16) Iodomethane	4.23	142	1861	0.0017	mg/kg#	43
17) Carbon Dislf	4.31	76	5957	N.D.		
18) allylchloride	4.51	41	8610	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	43649	Below	Cal	94
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.91	59	9530	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.42	57	4140	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	6.37	72	3230	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	6.71	42	7468	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840400.D Vial: 12
Acq On : 14 Mar 2017 15:09 Operator: RLD-AGK
Sample : 135664,840400, Inst : VMS4
Misc : 6.17g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:30:13 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.43	78	10010	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	9.63	43	1125	N.D.	
61)	Toluene	9.88	92	2196	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	10.73	43	2415	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	11.71	91	2869	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.91	91	1550	N.D.	
75)	m p-Xylene	12.05	106	1357	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	13.35	55	1302	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	3466	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	13.98	105	1417	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.52	105	14861	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	15.58	91	2670	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\MAR1417\840400.D Vial: 12
Acq On : 14 Mar 2017 15:09 Operator: RLD-AGK
Sample : 135664,840400, Inst : VMS4
Misc : 6.17g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:30:13 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	2475	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

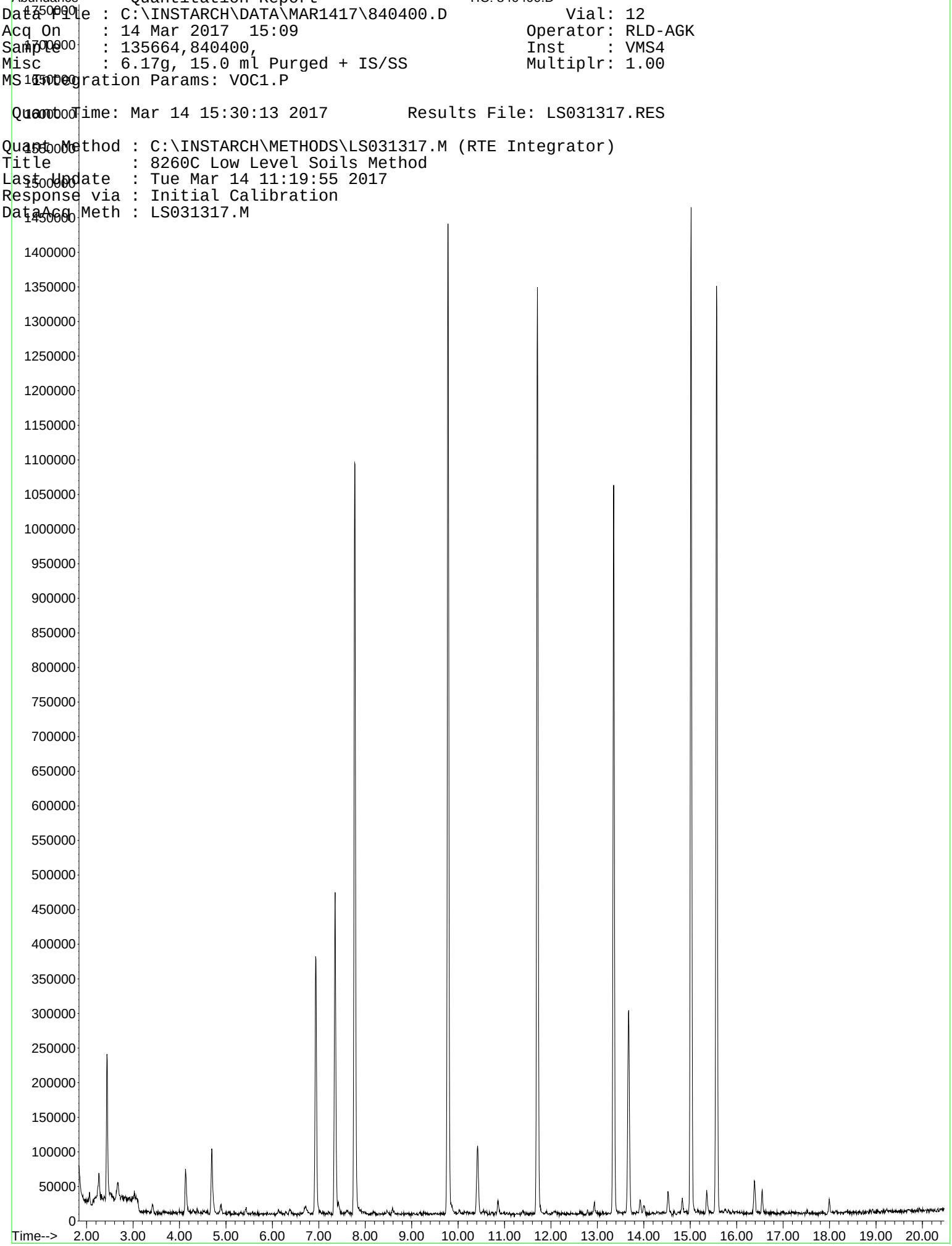
(#) = qualifier out of range (m) = manual integration

Quantitation Report (RTE Integrator)

Data File : C:\INSTARCH\DATA\MAR1417\840400.D Vial: 12
Acq On : 14 Mar 2017 15:09 Operator: RLD-AGK
Sample : 135664,840400, Inst : VMS4
Misc : 6.17g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:30:13 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840401.D Vial: 13
Acq On : 14 Mar 2017 15:38 Operator: RLD-AGK
Sample : 135664,840401, Inst : VMS4
Misc : 6.59g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:58:46 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1092066	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	906445	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	495729	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	258395	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	67789	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.79	98	1120294	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	404220	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	5199	N.D.		
3) Chloromethan	2.13	50	1608	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	1557	N.D.		
6) Chloroethane	2.94	64	1043	N.D.		
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	4.13	43	91210	0.0183	mg/kg	99
16) Iodomethane	4.21	142	1481	0.0016	mg/kg#	43
17) Carbon Dislf	4.29	76	4414	N.D.		
18) allylchloride	4.52	41	3798	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	49251	Below	Cal	98
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	8002	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	4357	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	6.39	72	1934	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	6.71	42	6579	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840401.D Vial: 13
Acq On : 14 Mar 2017 15:38 Operator: RLD-AGK
Sample : 135664,840401, Inst : VMS4
Misc : 6.59g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:58:46 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.43	78	5372	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	9.87	92	1729	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	10.74	43	2093	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	11.72	91	2005	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	12.06	106	1045	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	1578	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	3711	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	14.53	105	9736	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.99	119	1254	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.57	91	1611	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\MAR1417\840401.D Vial: 13
Acq On : 14 Mar 2017 15:38 Operator: RLD-AGK
Sample : 135664,840401, Inst : VMS4
Misc : 6.59g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:58:46 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	1633	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

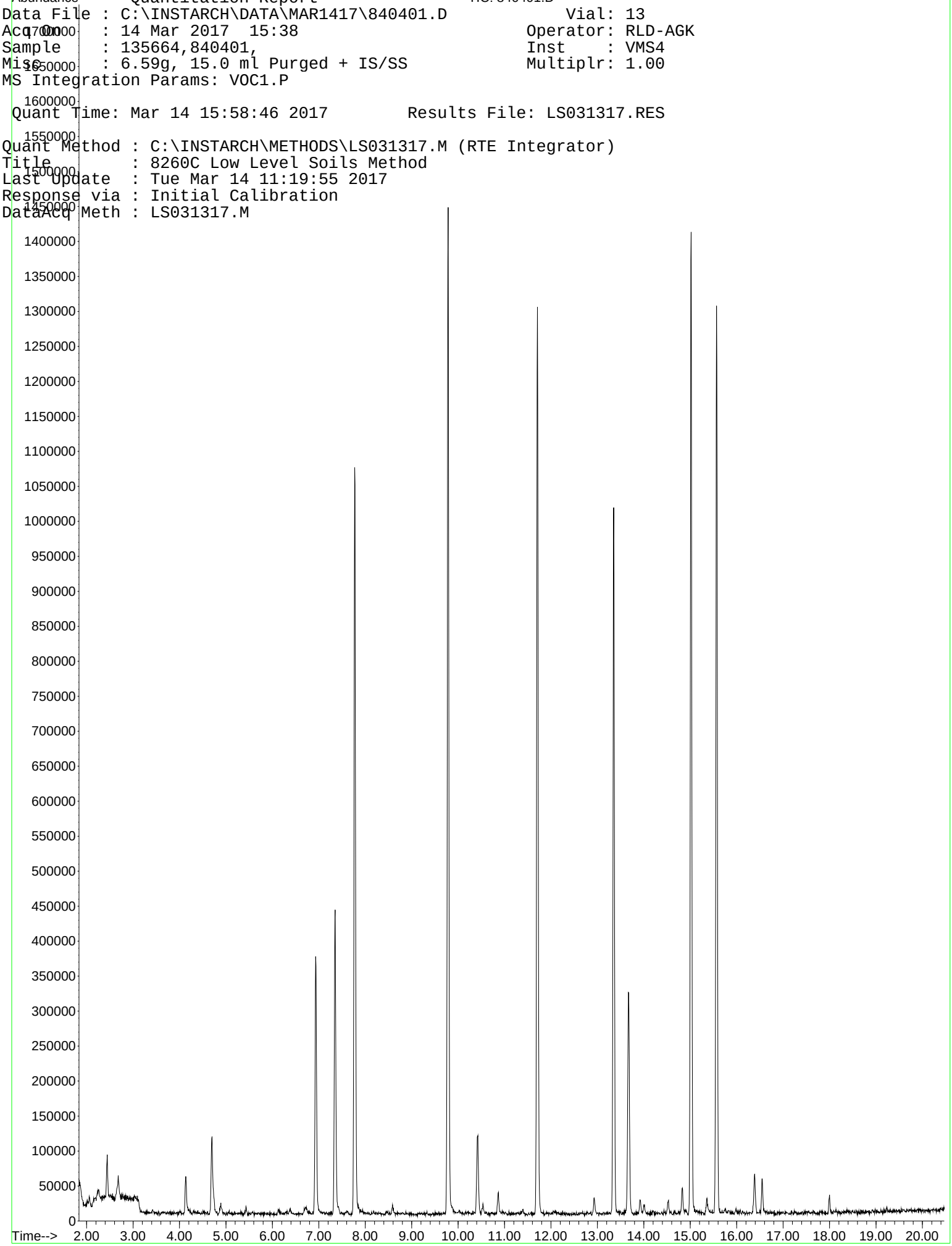
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840401.D

Data File : C:\INSTARCH\DATA\MAR1417\840401.D Vial: 13
Acq On : 14 Mar 2017 15:38 Operator: RLD-AGK
Sample : 135664,840401, Inst : VMS4
Misc : 6.59g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 15:58:46 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840402.D Vial: 14
Acq On : 14 Mar 2017 16:06 Operator: RLD-AGK
Sample : 135664,840402, Inst : VMS4
Misc : 5.99g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 16:27:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1088704	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	876579	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	483304	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	259021	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	68992	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.79	98	1095888	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	393497	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	5084	N.D.		
3) Chloromethan	2.13	50	4570	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	5084	N.D.		
6) Chloroethane	2.91	64	1314	N.D.		
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	4.13	43	283175	0.0569	mg/kg	99
16) Iodomethane	4.22	142	6533	0.0022	mg/kg	86
17) Carbon Dislf	4.29	76	7123	N.D.		
18) allylchloride	4.52	41	5423	N.D.		
19) methylacetate	4.60	74	1883	0.0008	mg/kg#	33
20) Methylchlorid	4.70	84	49350	Below	Cal	96
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.91	59	7839	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	5735	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	6.38	72	10222	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	6.70	42	7211	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840402.D Vial: 14
Acq On : 14 Mar 2017 16:06 Operator: RLD-AGK
Sample : 135664,840402, Inst : VMS4
Misc : 5.99g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 16:27:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.09	56	2213	N.D.	
43) Carbtetraclo	0.00	119	0	N.D.	
44) 11dicloprope	0.00	110	0	N.D.	
46) Benzene	7.43	78	16978	0.0004 mg/kg#	71
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	8.48	83	1555	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	9.65	43	1644	N.D.	
61) Toluene	9.87	92	3461	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	10.60	166	1172	N.D.	
66) 13Diclorpropa	0.00	76	0	N.D.	
68) 2Hexanone	10.73	43	5290	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	11.71	91	2574	N.D.	
73) 1112Tetclota	0.00	131	0	N.D.	
74) Ethylbenzene	11.90	91	1272	N.D.	
75) m p-Xylene	12.08	106	1657	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	13.35	55	2007	N.D.	
83) Bromobenzene	0.00	156	0	N.D.	
84) 1122Tetrclta	0.00	83	0	N.D.	
85) 123Triclproa	13.67	75	5288	N.D.	
86) 14dichloro2butene	0.00	53	0	N.D.	
87) n-Propylbenz	13.73	91	1725	N.D.	
88) 2chlorotolue	13.73	91	1725	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	14.52	105	89984	0.0020 mg/kg#	30
93) sbutylbenzen	0.00	105	0	N.D.	
94) 13Diclorbenz	0.00	146	0	N.D.	
95) pIsopropylto	14.99	119	1367	N.D.	
96) 14dichlorobe	15.04	146	1286	N.D.	
97) 12dichlorobe	0.00	146	0	N.D.	
98) nButylbenzen	15.56	91	4156	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\MAR1417\840402.D Vial: 14
Acq On : 14 Mar 2017 16:06 Operator: RLD-AGK
Sample : 135664,840402, Inst : VMS4
Misc : 5.99g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 16:27:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	2320	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

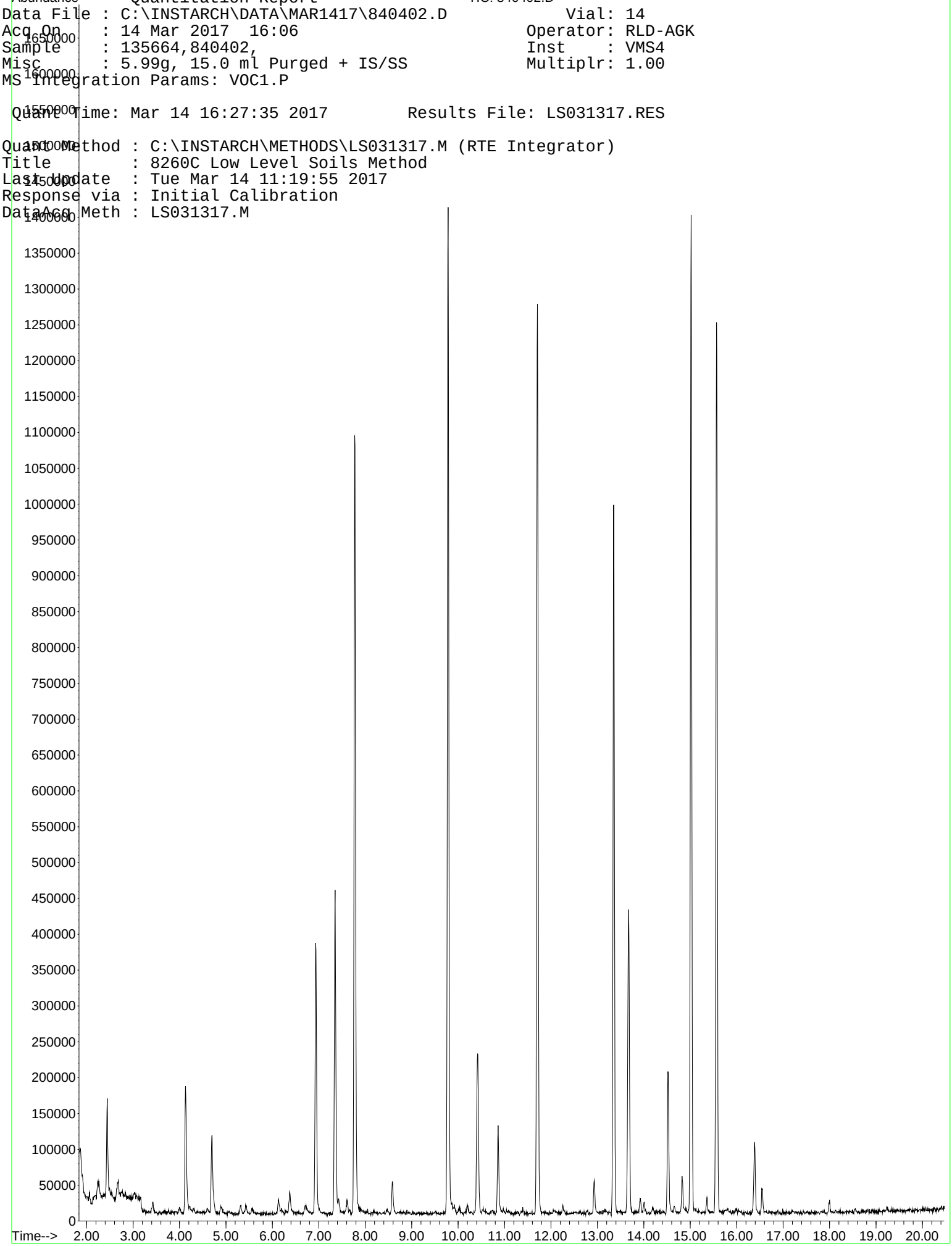
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: 840402.D)

Data File : C:\INSTARCH\DATA\MAR1417\840402.D Vial: 14
Acq On : 14 Mar 2017 16:06 Operator: RLD-AGK
Sample : 135664,840402, Inst : VMS4
Misc : 5.99g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 16:27:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840403.D Vial: 15
Acq On : 14 Mar 2017 16:35 Operator: RLD-AGK
Sample : 135664,840403, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 16:56:09 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	982061	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	800798	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	444452	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	238561	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	64113	0.023	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %			
60) SURRd8Tolule	9.79	98	977441	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	357042	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	5741	N.D.		
3) Chloromethan	2.13	50	4045	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	2282	N.D.		
6) Chloroethane	2.92	64	1403	N.D.		
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	3.93	56	1689	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	151616	0.0338	mg/kg	99
16) Iodomethane	4.21	142	3552	0.0019	mg/kg#	87
17) Carbon Dislf	4.30	76	6197	N.D.		
18) allylchloride	4.54	41	7631	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	11870	Below Cal		96
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.91	59	6219	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	7606	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	6.39	72	3431	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	6.71	42	5073	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840403.D Vial: 15
Acq On : 14 Mar 2017 16:35 Operator: RLD-AGK
Sample : 135664,840403, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 16:56:09 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.02	56	1784	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.43	78	12638	0.0003 mg/kg#	64
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	8.47	83	1352	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	9.87	92	24403	0.0010 mg/kg	98
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	10.72	43	2122	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	11.70	91	1908	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.91	91	2806	N.D.	
75)	m p-Xylene	12.08	106	1572	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	1497	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.68	75	1962	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	14.53	105	22012	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	15.02	146	1379	N.D.	
97)	12dichlorobe	15.57	146	1080	N.D.	
98)	nButylbenzen	15.58	91	1738	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\MAR1417\840403.D Vial: 15
Acq On : 14 Mar 2017 16:35 Operator: RLD-AGK
Sample : 135664,840403, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 16:56:09 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	1950	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

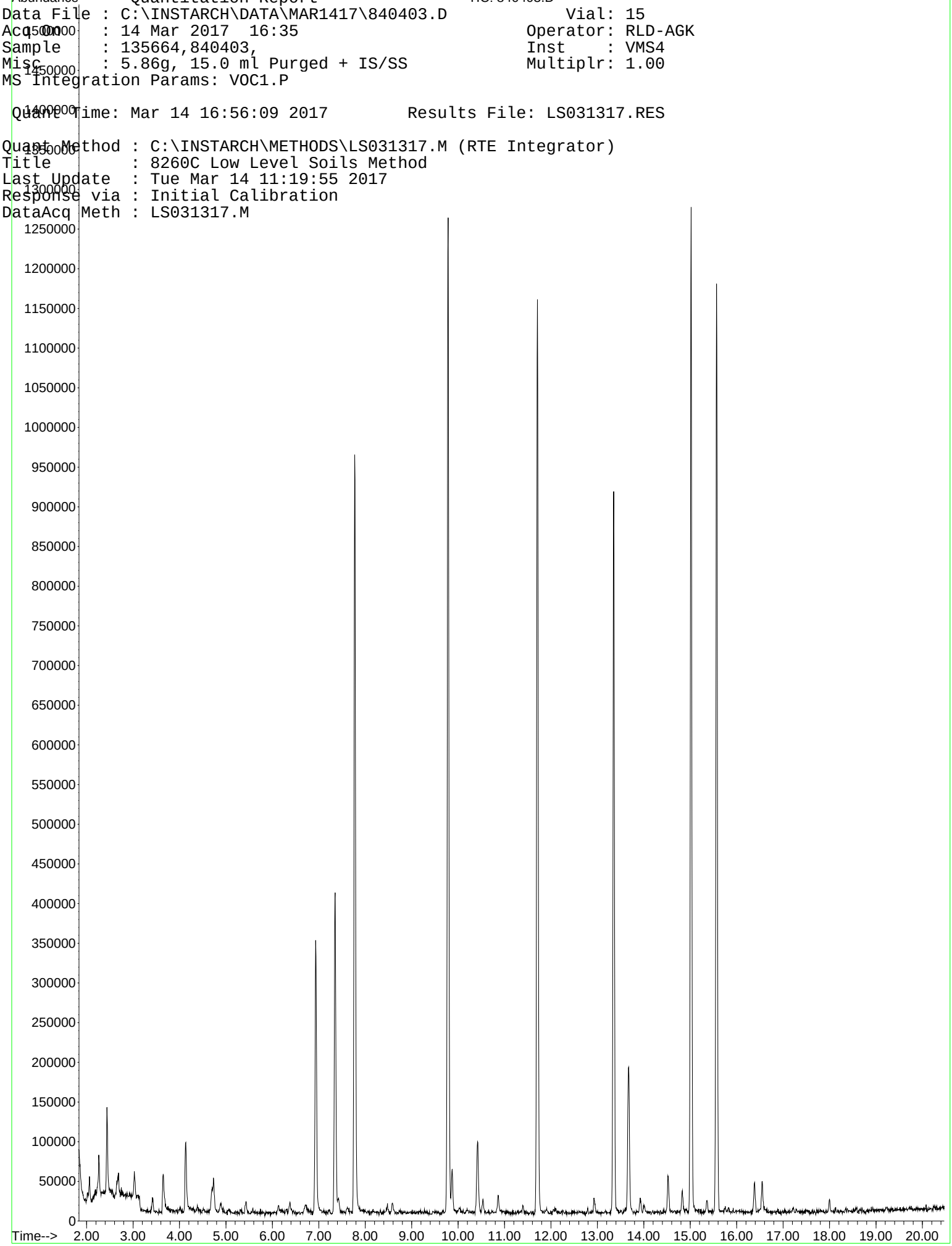
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840403.D

Data File : C:\INSTARCH\DATA\MAR1417\840403.D Vial: 15
Acq On : 14 Mar 2017 16:35 Operator: RLD-AGK
Sample : 135664,840403, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 16:56:09 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840404.D Vial: 16
Acq On : 14 Mar 2017 17:04 Operator: RLD-AGK
Sample : 135664,840404, Inst : VMS4
Misc : 5.08g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 17:24:53 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1106154	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	907366	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	499025	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	259732	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	69501	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.78	98	1111826	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	410573	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	8419	N.D.		
3) Chloromethan	2.11	50	3199	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.77	94	1019	N.D.		
6) Chloroethane	2.92	64	1795	N.D.		
7) dichloroflmethane	3.22	67	1152	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	3.93	56	1013	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.14	43	61299	0.0121	mg/kg	95
16) Iodomethane	4.23	142	1341	0.0016	mg/kg#	43
17) Carbon Dislf	4.30	76	5707	N.D.		
18) allylchloride	4.53	41	8315	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	11549	Below	Cal	96
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.89	59	8605	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.42	57	4871	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	6.37	72	1209	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	6.71	42	5777	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840404.D Vial: 16
Acq On : 14 Mar 2017 17:04 Operator: RLD-AGK
Sample : 135664,840404, Inst : VMS4
Misc : 5.08g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 17:24:53 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.43	78	9910	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	9.87	92	27845	0.0010	mg/kg	100
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	10.73	43	2436	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	11.71	91	2858	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.91	91	1180	N.D.		
75)	m p-Xylene	12.07	106	1935	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	13.35	55	1770	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.67	75	3741	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	13.85	105	1262	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.53	105	8829	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	15.00	146	1048	N.D.		
95)	pIsopropylto	14.98	119	1516	N.D.		
96)	14dichlorobe	15.00	146	1048	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.57	91	1796	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\MAR1417\840404.D Vial: 16
Acq On : 14 Mar 2017 17:04 Operator: RLD-AGK
Sample : 135664,840404, Inst : VMS4
Misc : 5.08g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 17:24:53 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	2280	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

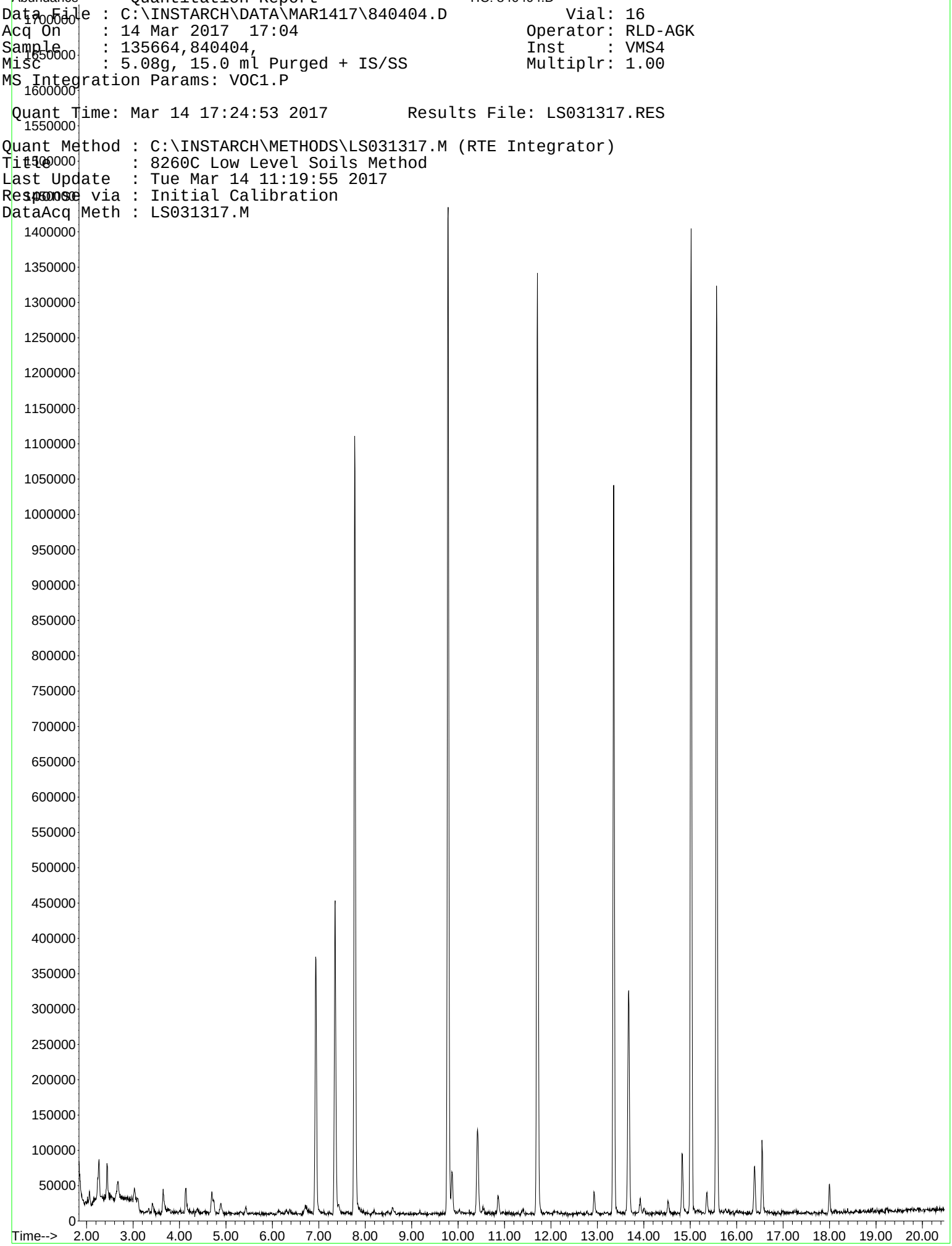
Quantitation Report

TIC: 840404.D

Data File : C:\INSTARCH\DATA\MAR1417\840404.D Vial: 16
Acq On : 14 Mar 2017 17:04 Operator: RLD-AGK
Sample : 135664,840404, Inst : VMS4
Misc : 5.08g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 17:24:53 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840405.D Vial: 17
Acq On : 14 Mar 2017 17:33 Operator: RLD-AGK
Sample : 135664,840405, Inst : VMS4
Misc : 8.11g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 17:53:42 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1043029	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	859792	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	471882	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	254626	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	71505	0.024	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 120 %			
60) SURRd8Tolule	9.79	98	1050333	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	391372	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	3775	N.D.		
3) Chloromethan	2.12	50	2918	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.77	94	3621	N.D.		
6) Chloroethane	2.94	64	2283	N.D.		
7) dichloroflmethane	3.22	67	1345	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	4.13	43	166298	0.0349	mg/kg	97
16) Iodomethane	4.21	142	3183	0.0018	mg/kg#	69
17) Carbon Dislf	4.30	76	7095	N.D.		
18) allylchloride	4.53	41	6739	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	12264	Below	Cal	100
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.91	59	4369	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	3783	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	6.38	72	2053	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	6.71	42	5557	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840405.D Vial: 17
Acq On : 14 Mar 2017 17:33 Operator: RLD-AGK
Sample : 135664,840405, Inst : VMS4
Misc : 8.11g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 17:53:42 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.43	78	7668	N.D.	
47)	12dichlorota	7.35	62	1333	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	9.87	92	19614	0.0007 mg/kg#	85
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	10.74	43	1535	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	11.73	91	2059	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	12.06	106	1489	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	13.35	55	1693	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	3762	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.72	91	1025	N.D.	
88)	2chlorotolue	13.72	91	1025	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	14.52	105	22923	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.99	119	1759	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.57	91	1581	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\MAR1417\840405.D Vial: 17
Acq On : 14 Mar 2017 17:33 Operator: RLD-AGK
Sample : 135664,840405, Inst : VMS4
Misc : 8.11g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 17:53:42 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	1729	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

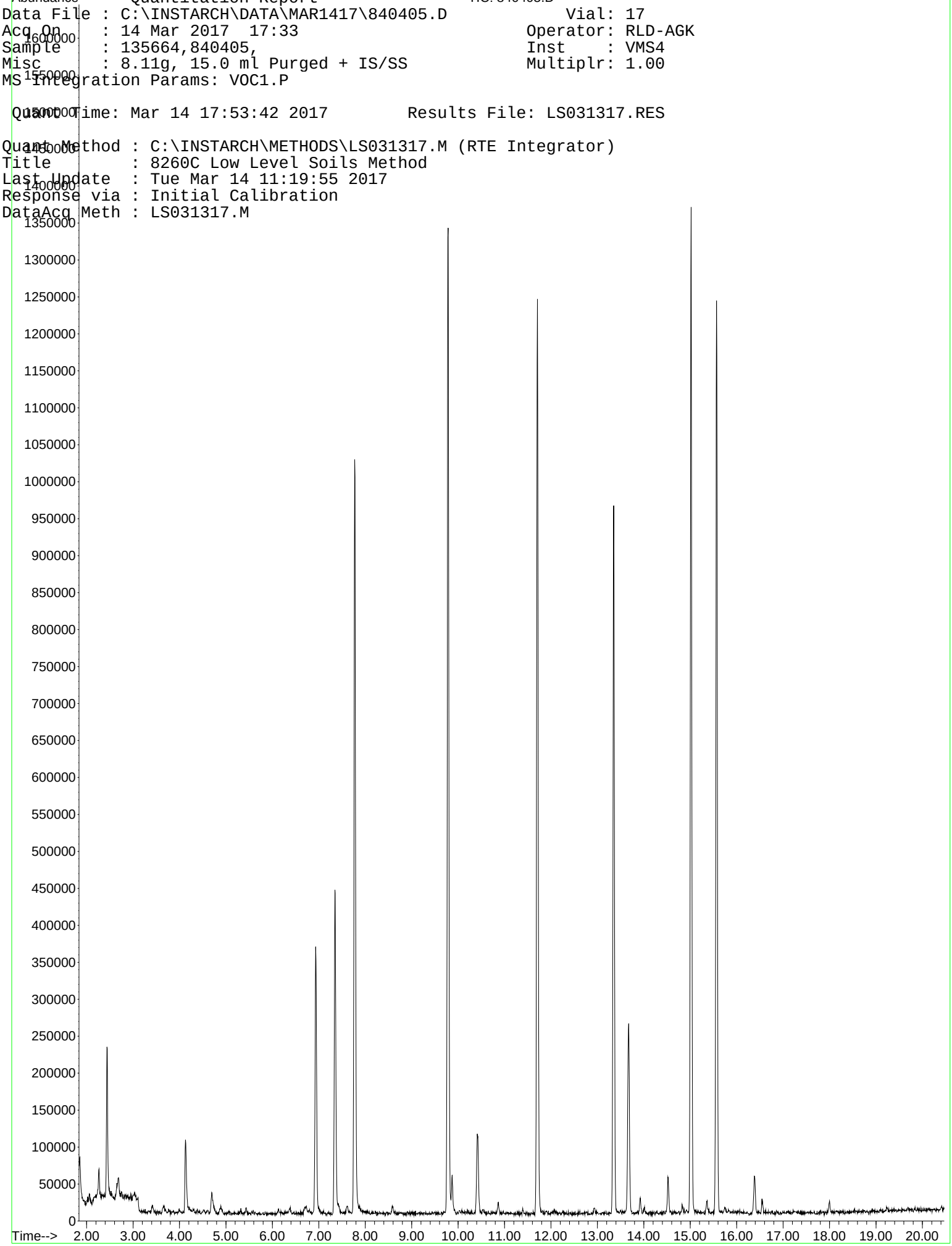
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840405.D

Data File : C:\INSTARCH\DATA\MAR1417\840405.D Vial: 17
Acq On : 14 Mar 2017 17:33 Operator: RLD-AGK
Sample : 135664,840405, Inst : VMS4
Misc : 8.11g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 17:53:42 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840406.D Vial: 18
Acq On : 14 Mar 2017 18:01 Operator: RLD-AGK
Sample : 135664,840406, Inst : VMS4
Misc : 6.82g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 18:22:21 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	961302	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	786000	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	439429	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	225345	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	57283	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	971055	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	356605	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.88	85	7007	N.D.		
3) Chloromethan	2.12	50	4385	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.77	94	1682	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) dichloroflmethane	3.24	67	1019	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	3.93	56	1075	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.14	43	68476	0.0156	mg/kg	96
16) Iodomethane	0.00	142	0	N.D.		
17) Carbon Dislf	4.30	76	4334	N.D.		
18) allylchloride	4.52	41	6975	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	18265	Below	Cal	98
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	7615	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	3292	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	6.38	72	1912	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	6.71	42	5411	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840406.D Vial: 18
Acq On : 14 Mar 2017 18:01 Operator: RLD-AGK
Sample : 135664,840406, Inst : VMS4
Misc : 6.82g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 18:22:21 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.43	78	8597	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	9.87	92	37598	0.0015	mg/kg	97
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	10.74	43	2440	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	11.72	91	1868	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.91	91	1147	N.D.		
75)	m p-Xylene	12.07	106	1416	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	1550	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.66	75	2309	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	14.53	105	5440	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	14.99	119	1048	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.55	91	1698	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\MAR1417\840406.D Vial: 18
Acq On : 14 Mar 2017 18:01 Operator: RLD-AGK
Sample : 135664,840406, Inst : VMS4
Misc : 6.82g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 18:22:21 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	1738	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

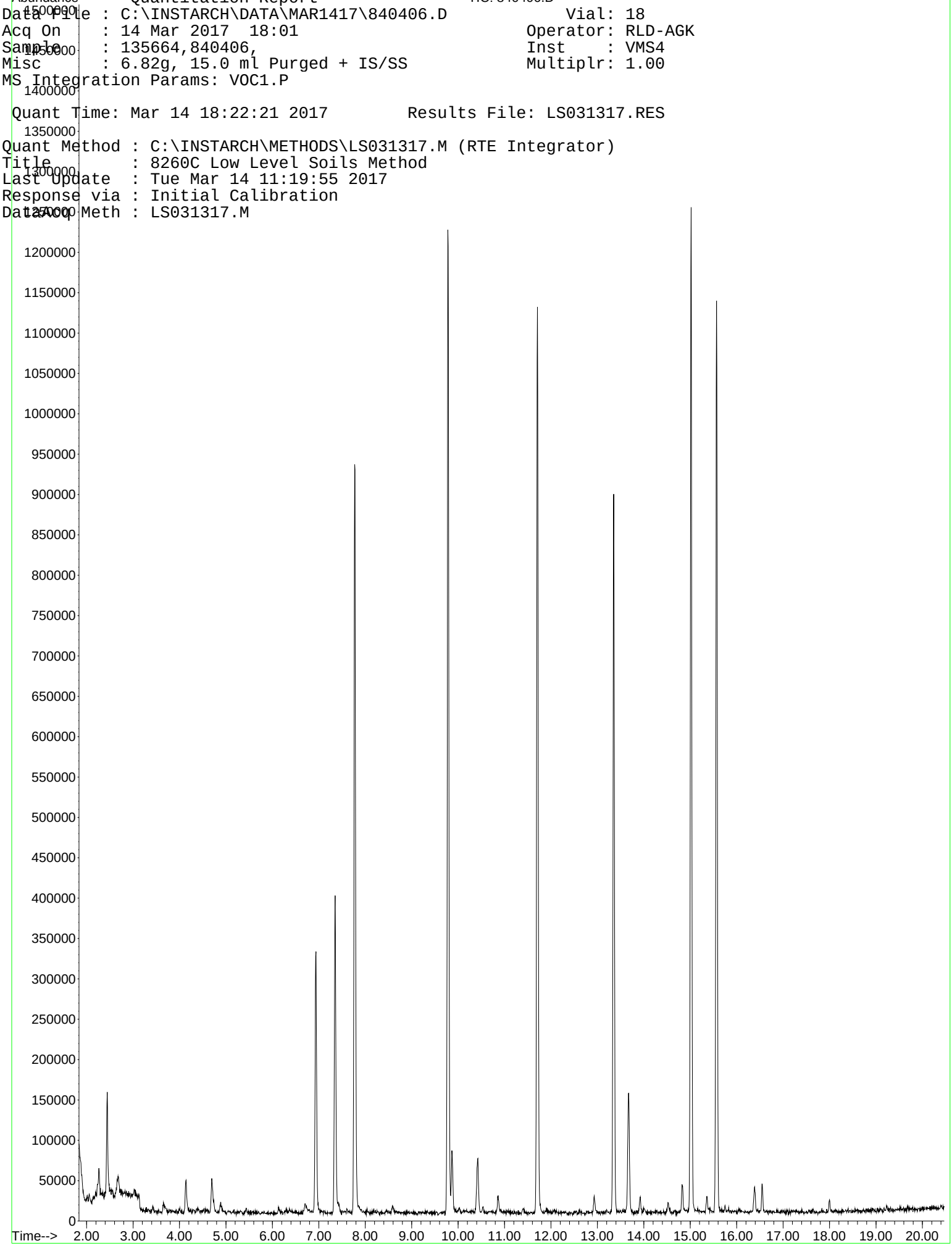
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840406.D

Data File : C:\INSTARCH\DATA\MAR1417\840406.D Vial: 18
Acq On : 14 Mar 2017 18:01 Operator: RLD-AGK
Sample : 135664,840406, Inst : VMS4
Misc : 6.82g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 18:22:21 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840407.D Vial: 19
Acq On : 14 Mar 2017 18:30 Operator: RLD-AGK
Sample : 135664,840407, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 18:50:56 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1067015	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	868246	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	477373	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.93	113	253870	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %		
45) SURR12DCAd4	7.35	102	66833	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.79	98	1082770	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %		
82) SURR4BrFBenz	13.35	95	382282	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %		
Target Compounds					Qvalue
2) Dichlorodi	1.86	85	7211	N.D.	
3) Chloromethan	2.10	50	4505	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.74	94	4135	N.D.	
6) Chloroethane	2.91	64	1419	N.D.	
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	3.90	56	1715	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.13	43	321720	0.0660 mg/kg	100
16) Iodomethane	4.23	142	6162	0.0022 mg/kg#	87
17) Carbon Dislf	4.30	76	5868	N.D.	
18) allylchloride	4.52	41	5794	N.D.	
19) methylacetate	4.60	74	1701	0.0007 mg/kg#	33
20) Methylchlorid	4.69	84	50491	Below Cal	94
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.91	59	6609	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.43	57	5915	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	6.37	72	6243	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	6.72	42	6057	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840407.D Vial: 19
Acq On : 14 Mar 2017 18:30 Operator: RLD-AGK
Sample : 135664,840407, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 18:50:56 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.09	56	1235	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.44	78	10726	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	8.50	83	1056	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	9.65	43	1737	N.D.	
61)	Toluene	9.88	92	2166	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	10.60	166	1075	N.D.	
66)	13Diclorpropa	0.00	76	0	N.D.	
68)	2Hexanone	10.73	43	3783	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	11.71	91	2643	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.90	91	1541	N.D.	
75)	m p-Xylene	12.07	106	1936	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	13.34	55	1528	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	2109	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.72	91	1650	N.D.	
88)	2chlorotolue	13.86	91	1029	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	14.00	105	1319	N.D.	
91)	tbutylbenzen	14.45	119	1198	N.D.	
92)	124Trimetben	14.52	105	65128	0.0015 mg/kg#	30
93)	sbutylbenzen	14.77	105	1294	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	15.00	119	2215	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.57	91	4605	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	17.83	180	1148	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840407.D Vial: 19
Acq On : 14 Mar 2017 18:30 Operator: RLD-AGK
Sample : 135664,840407, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 18:50:56 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	2089	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

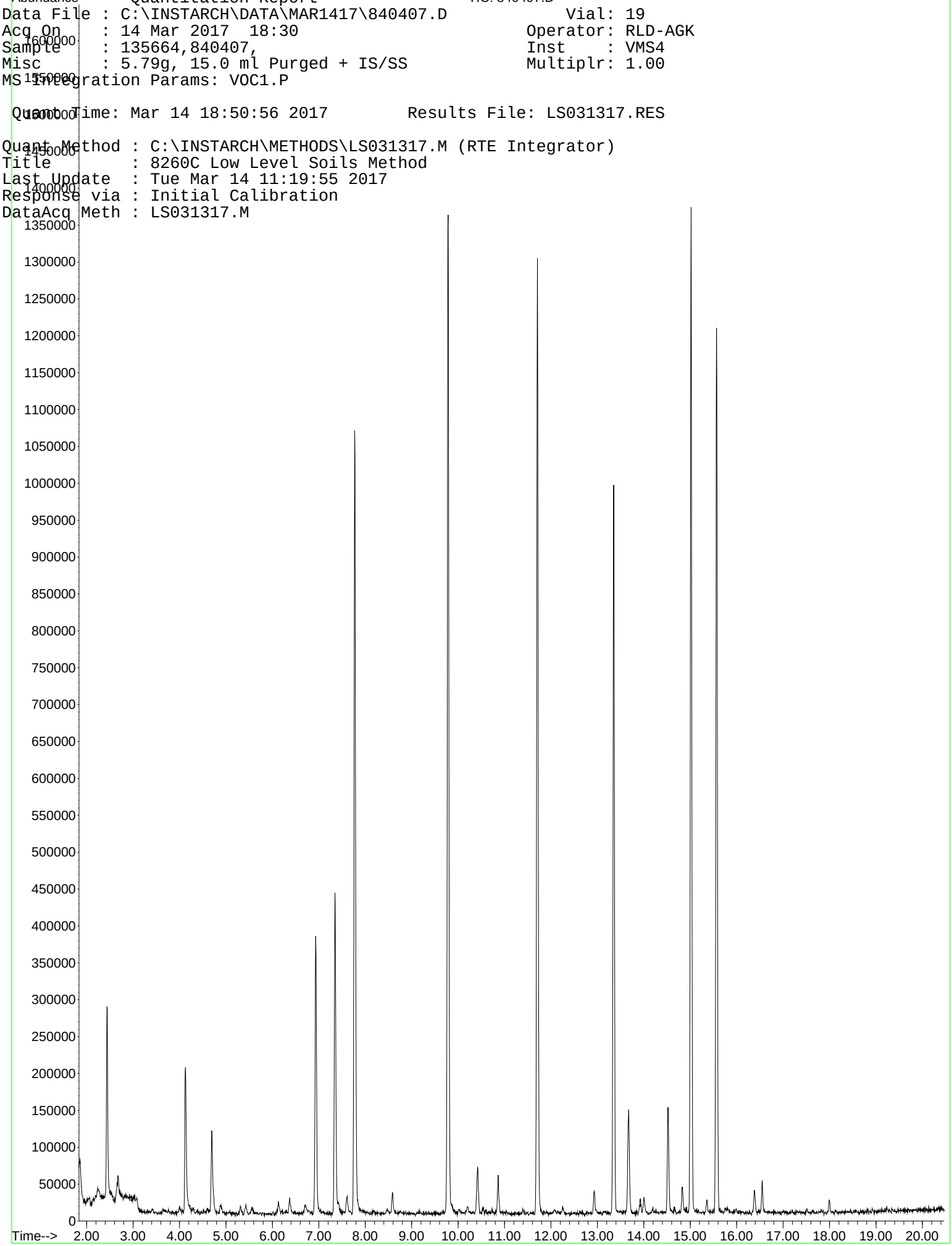
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840407.D

Data File : C:\INSTARCH\DATA\MAR1417\840407.D Vial: 19
Acq On : 14 Mar 2017 18:30 Operator: RLD-AGK
Sample : 135664,840407, Inst : VMS4
Misc : 5.79g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 18:50:56 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840408.D Vial: 20
Acq On : 14 Mar 2017 18:59 Operator: RLD-AGK
Sample : 135664,840408, Inst : VMS4
Misc : 6.61g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 19:19:42 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1079309	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	892603	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	482676	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	251116	0.018	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 90 %			
45) SURR12DCAd4	7.35	102	70506	0.023	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %			
60) SURRd8Tolule	9.79	98	1079336	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	397120	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	7371	N.D.		
3) Chloromethan	2.13	50	3459	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.74	94	1665	N.D.		
6) Chloroethane	2.91	64	1132	N.D.		
7) dichloroflmethane	3.22	67	1086	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	3.76	67	1767	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	4.13	43	89234	0.0181	mg/kg	96
16) Iodomethane	4.22	142	1633	0.0017	mg/kg#	43
17) Carbon Dislf	4.29	76	3965	N.D.		
18) allylchloride	4.54	41	4011	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	52031	Below	Cal	97
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	7758	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.45	57	4085	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	6.37	72	1055	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	6.71	42	5321	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840408.D Vial: 20
Acq On : 14 Mar 2017 18:59 Operator: RLD-AGK
Sample : 135664,840408, Inst : VMS4
Misc : 6.61g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 19:19:42 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.43	78	6123	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	9.87	92	1508	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	10.74	43	1495	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	11.71	91	1800	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	12.05	106	1469	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	13.35	55	1149	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	3671	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.72	91	1319	N.D.	
88)	2chlorotolue	13.72	91	1319	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	13.86	105	1490	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.52	105	9504	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.97	119	1376	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.57	91	2148	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\MAR1417\840408.D Vial: 20
Acq On : 14 Mar 2017 18:59 Operator: RLD-AGK
Sample : 135664,840408, Inst : VMS4
Misc : 6.61g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 19:19:42 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.16	128	1309	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

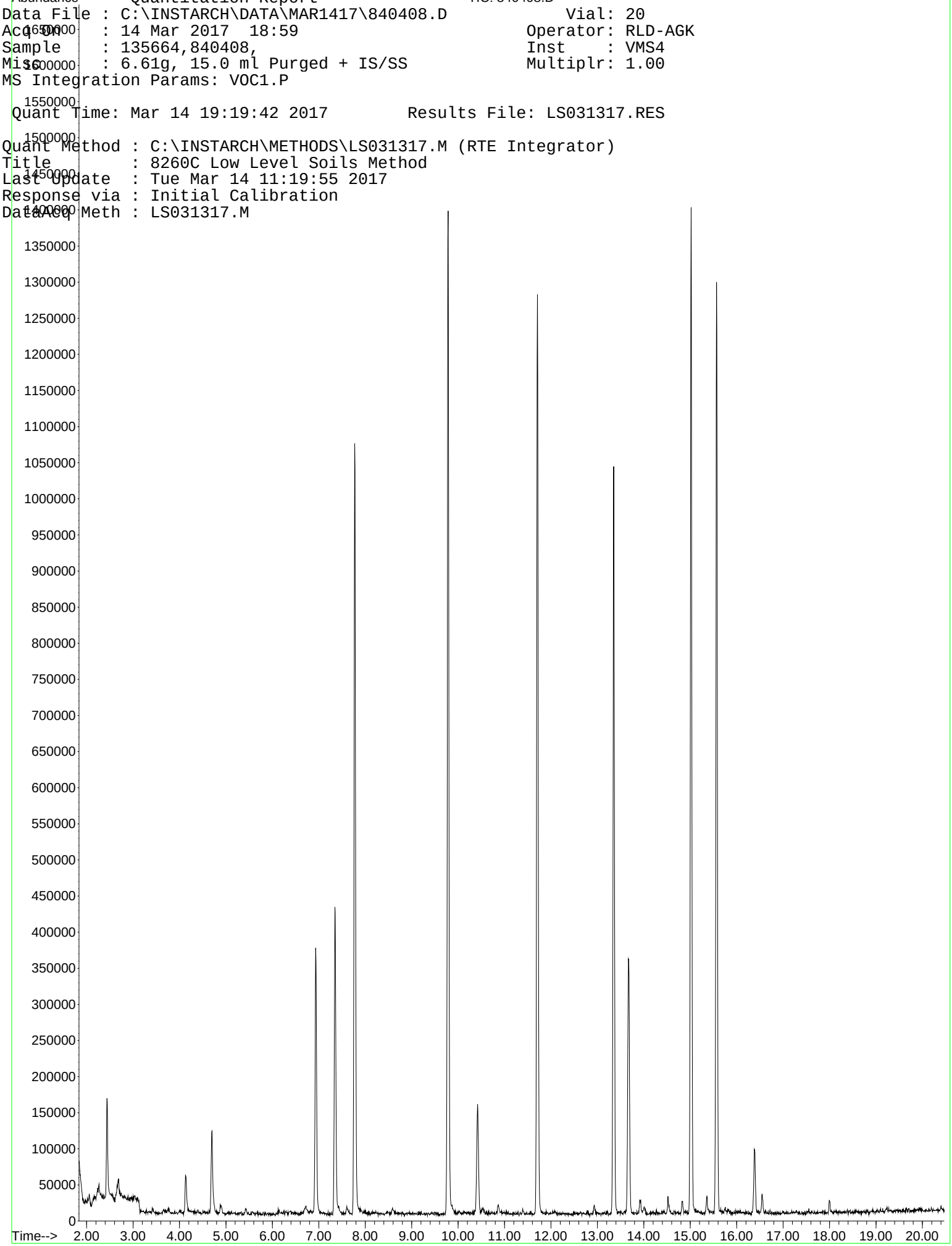
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840408.D

Data File : C:\INSTARCH\DATA\MAR1417\840408.D Vial: 20
Acq On : 14 Mar 2017 18:59 Operator: RLD-AGK
Sample : 135664,840408, Inst : VMS4
Misc : 6.61g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 19:19:42 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840409.D Vial: 21
Acq On : 14 Mar 2017 19:27 Operator: RLD-AGK
Sample : 135664,840409, Inst : VMS4
Misc : 5.91g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 19:48:37 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	979354	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	804240	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	439668	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	233092	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	63024	0.023	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 115 %			
60) SURRd8Tolule	9.79	98	990155	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	358312	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	7302	N.D.		
3) Chloromethan	2.11	50	3457	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.74	94	2708	N.D.		
6) Chloroethane	2.92	64	1494	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	3.32	101	1119	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	4.13	43	95033	0.0212	mg/kg	96
16) Iodomethane	4.22	142	4970	0.0021	mg/kg#	85
17) Carbon Dislf	4.31	76	5107	N.D.		
18) allylchloride	4.52	41	6592	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	8539	Below	Cal	97
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	6074	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	2454	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	6.38	72	1587	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	6.71	42	4710	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840409.D Vial: 21
Acq On : 14 Mar 2017 19:27 Operator: RLD-AGK
Sample : 135664,840409, Inst : VMS4
Misc : 5.91g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 19:48:37 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.42	78	9869	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	9.64	43	1367	N.D.	
61)	Toluene	9.87	92	44587	0.0018 mg/kg	94
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	10.73	43	1074	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	11.71	91	2178	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	12.07	106	1332	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	13.35	55	1524	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.66	75	2602	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	14.53	105	15866	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	15.57	91	1882	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\MAR1417\840409.D Vial: 21
Acq On : 14 Mar 2017 19:27 Operator: RLD-AGK
Sample : 135664,840409, Inst : VMS4
Misc : 5.91g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 19:48:37 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	1632	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

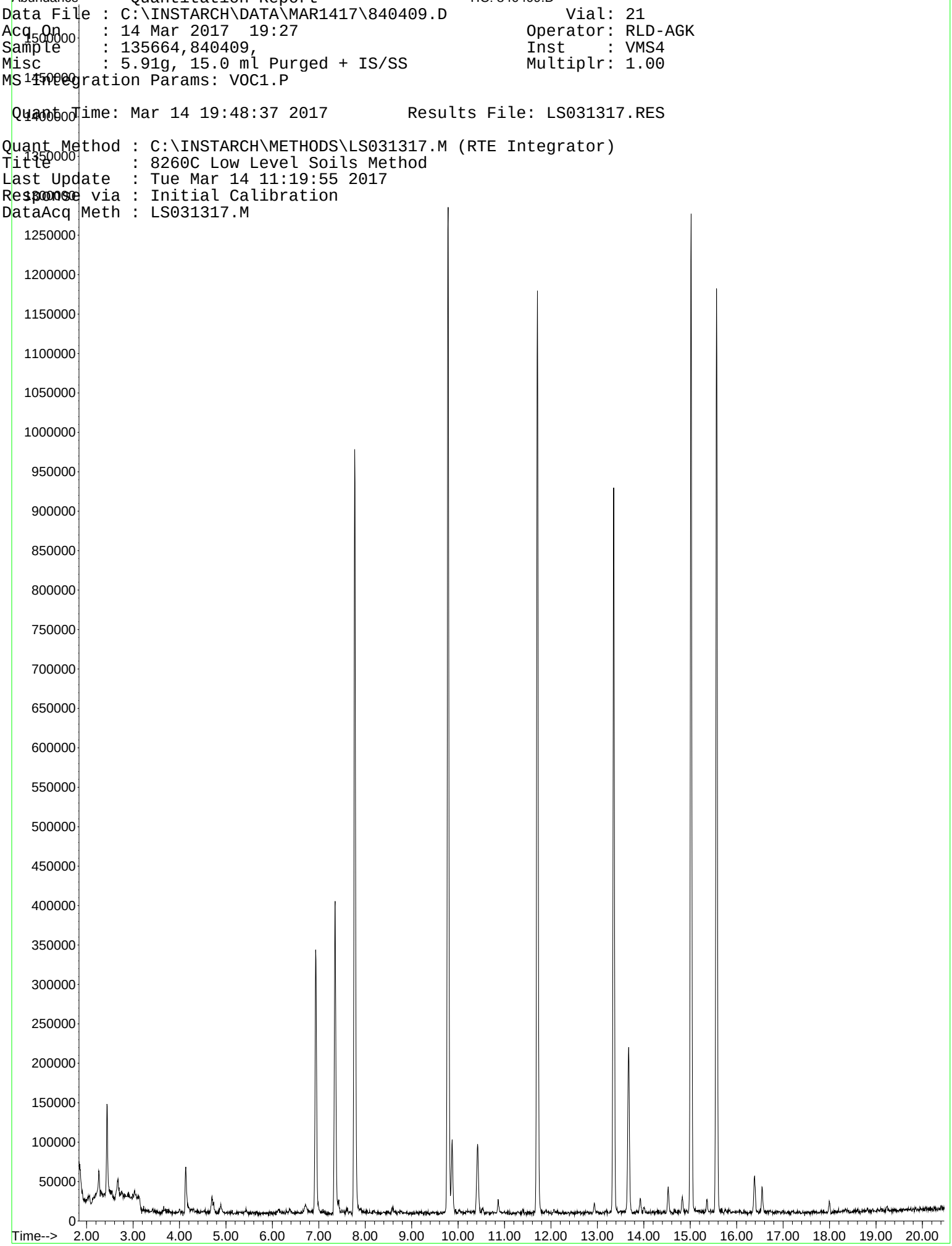
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840409.D

Data File : C:\INSTARCH\DATA\MAR1417\840409.D Vial: 21
Acq On : 14 Mar 2017 19:27 Operator: RLD-AGK
Sample : 135664,840409, Inst : VMS4
Misc : 5.91g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 19:48:37 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840410.D Vial: 22
Acq On : 14 Mar 2017 19:56 Operator: RLD-AGK
Sample : 135664,840410, Inst : VMS4
Misc : 6.77g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 20:17:04 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	1047275	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	855103	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	475969	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	254933	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	70797	0.024	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 120 %			
60) SURRd8Tolule	9.79	98	1069092	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	389908	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	6559	N.D.		
3) Chloromethan	2.11	50	3512	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	1193	N.D.		
6) Chloroethane	2.91	64	1344	N.D.		
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	3.93	56	4799	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	75675	0.0158	mg/kg	95
16) Iodomethane	4.21	142	1540	0.0016	mg/kg#	43
17) Carbon Dislf	4.30	76	5162	N.D.		
18) allylchloride	4.52	41	5097	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	30603	Below	Cal	96
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	4774	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	2965	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	6.38	72	1805	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	6.71	42	5566	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840410.D Vial: 22
Acq On : 14 Mar 2017 19:56 Operator: RLD-AGK
Sample : 135664,840410, Inst : VMS4
Misc : 6.77g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 20:17:04 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.10	56	1000	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.43	78	8247	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	9.87	92	1924	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	10.74	43	2022	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	11.70	91	2548	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	12.07	106	1444	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	13.34	55	2020	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	1619	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.72	91	1275	N.D.	
88)	2chlorotolue	13.72	91	1145	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	14.52	105	16500	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.99	119	1698	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.57	91	1897	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\MAR1417\840410.D Vial: 22
Acq On : 14 Mar 2017 19:56 Operator: RLD-AGK
Sample : 135664,840410, Inst : VMS4
Misc : 6.77g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 20:17:04 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	1426	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

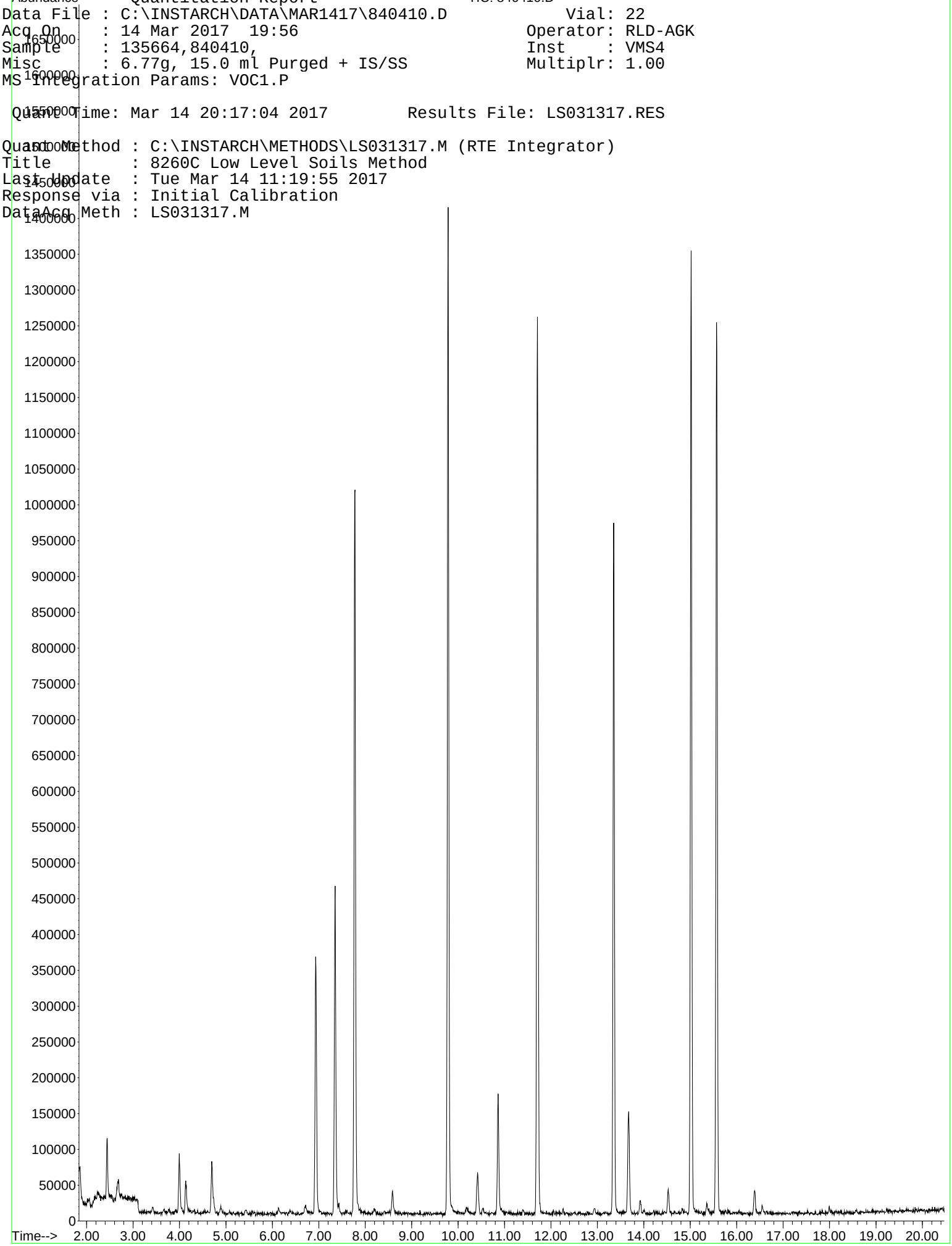
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840410.D

Data File : C:\INSTARCH\DATA\MAR1417\840410.D Vial: 22
Acq On : 14 Mar 2017 19:56 Operator: RLD-AGK
Sample : 135664,840410, Inst : VMS4
Misc : 6.77g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 20:17:04 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840413.D Vial: 23
Acq On : 14 Mar 2017 20:25 Operator: RLD-AGK
Sample : 135664,840413, Inst : VMS4
Misc : 6.99g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 20:45:41 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	963279	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	808395	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	438062	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	225006	0.018	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 90 %			
45) SURR12DCAd4	7.35	102	61347	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.79	98	972870	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	355670	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	9632	N.D.		
3) Chloromethan	2.11	50	2739	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	1269	N.D.		
6) Chloroethane	2.91	64	1658	N.D.		
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	4.13	43	51591	0.0117	mg/kg	93
16) Iodomethane	4.23	142	2070	0.0017	mg/kg#	43
17) Carbon Dislf	4.30	76	3679	N.D.		
18) allylchloride	4.52	41	5941	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	8357	Below	Cal	93
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.91	59	6317	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.42	57	2193	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	6.41	72	1649	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	6.71	42	5218	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840413.D Vial: 23
Acq On : 14 Mar 2017 20:25 Operator: RLD-AGK
Sample : 135664,840413, Inst : VMS4
Misc : 6.99g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 20:45:41 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.42	78	6864	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	9.87	92	28043	0.0011 mg/kg	96
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	11.71	91	2136	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	12.07	106	1181	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	13.35	55	1845	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.68	75	4147	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	14.53	105	6599	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	15.57	91	1072	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\MAR1417\840413.D Vial: 23
Acq On : 14 Mar 2017 20:25 Operator: RLD-AGK
Sample : 135664,840413, Inst : VMS4
Misc : 6.99g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 20:45:41 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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.	

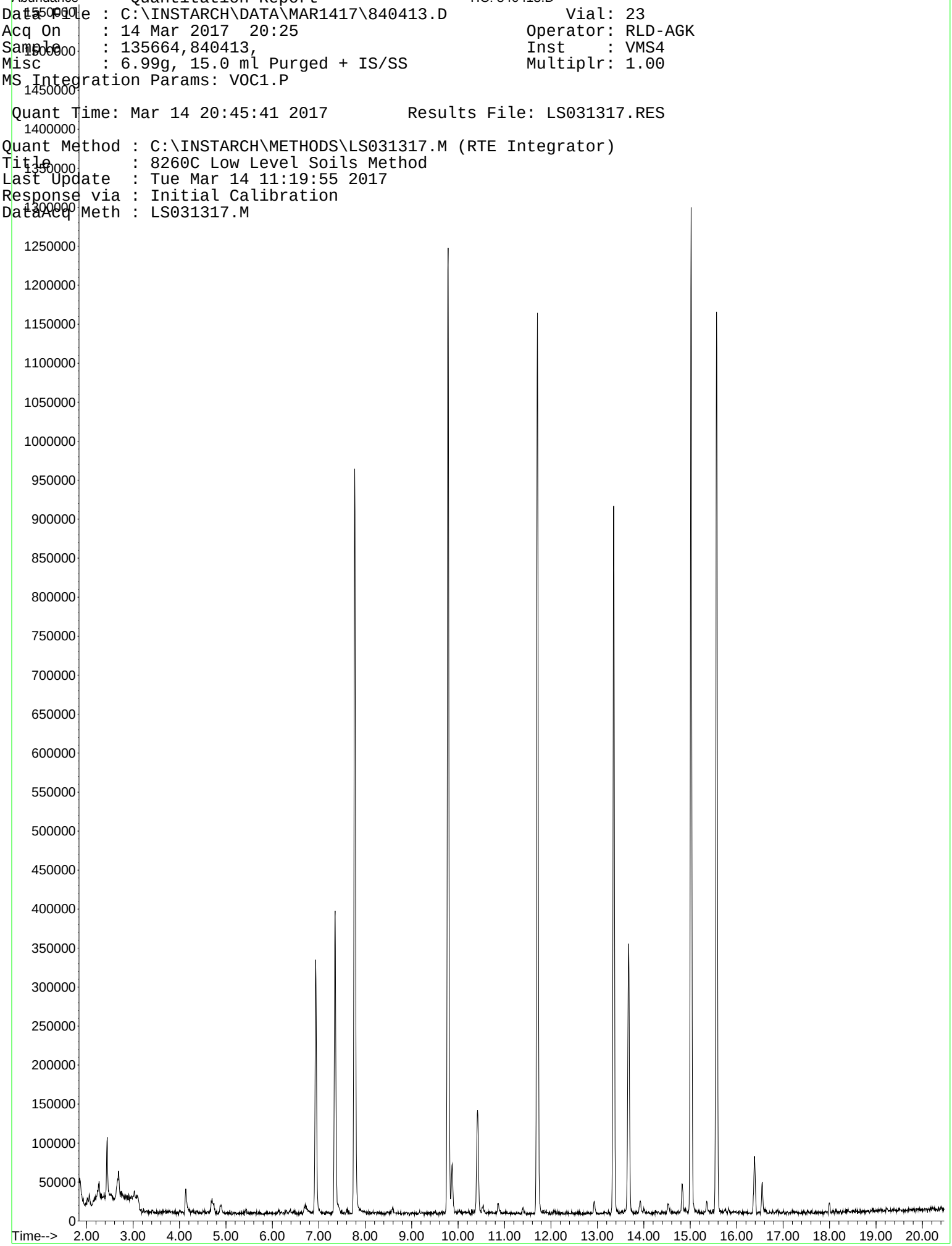
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840413.D

Data File : C:\INSTARCH\DATA\MAR1417\840413.D Vial: 23
Acq On : 14 Mar 2017 20:25 Operator: RLD-AGK
Sample : 135664,840413, Inst : VMS4
Misc : 6.99g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 20:45:41 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840414.D Vial: 32
Acq On : 17 Mar 2017 9:57 Operator: RLD-AGK
Sample : 135661,840414, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 10:17:37 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1246194	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1000129	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	543314	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	294242	3.753	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 94 %			
45) SURR12DCAd4	7.35	102	66296	4.077	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 102 %			
61) SURRd8Tolule	9.79	98	1233269	3.995	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100 %			
83) SURR4BrFBenz	13.35	95	436601	3.954	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.15	50	5509	0.0405	ug/L	70
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	1187	N.D.		
6) Chloroethane	2.92	64	939	N.D.		
7) Dichloroflmethane	3.24	67	630	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	4.13	43	111644	5.0411	ug/L	98
16) Iodomethane	4.23	142	732	0.3471	ug/L #	40
17) Carbon Dislf	4.31	76	2357	N.D.		
18) allylchloride	4.52	41	3678	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.71	84	4944	Below Cal	#	81
21) tbutylalcohol	4.90	59	2127	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	6.45	54	626	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	6.71	42	6290	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840414.D Vial: 32
Acq On : 17 Mar 2017 9:57 Operator: RLD-AGK
Sample : 135661,840414, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 10:17:37 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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	7.43	78	1501	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)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.65	43	515	N.D.	
62)	Toluene	9.87	92	564	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.72	91	2101	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	12.06	106	595	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.34	55	2131	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.58	91	1941	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840414.D Vial: 32
Acq On : 17 Mar 2017 9:57 Operator: RLD-AGK
Sample : 135661,840414, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 10:17:37 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.11	128	1062	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

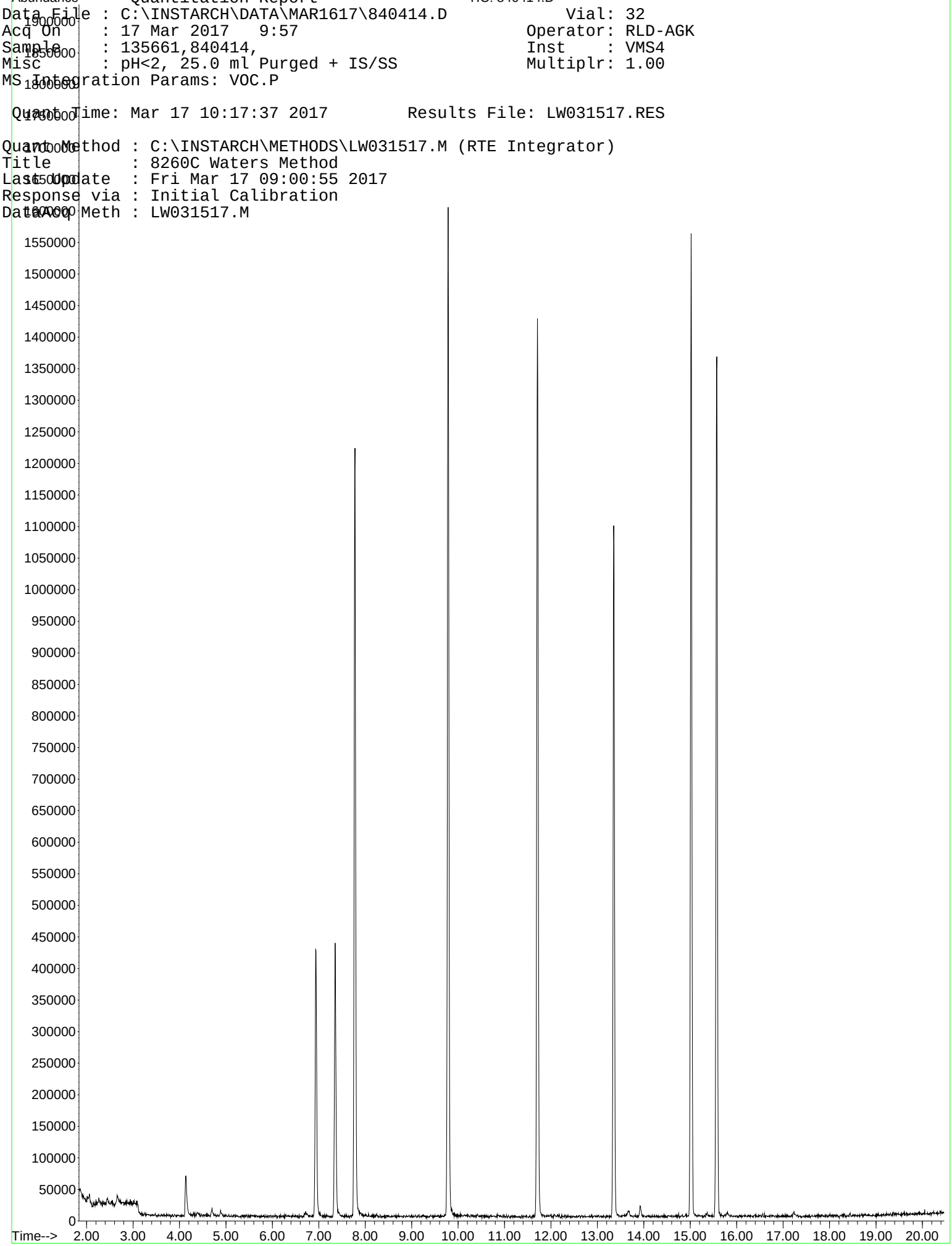
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840414.D

Data File : C:\INSTARCH\DATA\MAR1617\840414.D Vial: 32
Acq On : 17 Mar 2017 9:57 Operator: RLD-AGK
Sample : 135661,840414, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 10:17:37 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840415.D Vial: 33
Acq On : 17 Mar 2017 10:25 Operator: RLD-AGK
Sample : 135661,840415, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 10:45:58 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1252563	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1014846	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	554873	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	292255	3.709	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 93	%		
45) SURR12DCAd4	7.35	102	67388	4.123	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 103	%		
61) SURRd8Tolule	9.79	98	1261572	4.066	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102	%		
83) SURR4BrFBenz	13.35	95	459726	4.077	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 102	%		
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.16	50	5236	0.0383	ug/L #	64
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	1167	N.D.		
6) Chloroethane	2.89	64	565	N.D.		
7) Dichloroflmethane	3.23	67	630	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	4.13	43	111600	4.9998	ug/L	99
16) Iodomethane	4.21	142	669	0.3461	ug/L #	40
17) Carbon Dislf	4.30	76	2272	N.D.		
18) allylchloride	4.51	41	3924	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	4854	Below Cal	#	87
21) tbutylalcohol	4.91	59	2890	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	5.43	57	506	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	6.47	54	729	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	6.72	42	6459	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840415.D Vial: 33
Acq On : 17 Mar 2017 10:25 Operator: RLD-AGK
Sample : 135661,840415, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 10:45:58 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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	7.43	78	876	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)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	9.87	92	931	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.74	43	911	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.71	91	2577	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.35	55	1689	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	15.03	146	788	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	15.03	146	957	N.D.	
98)	12dichlorobe	15.58	146	570	N.D.	
99)	nButylbenzen	15.57	91	1737	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840415.D Vial: 33
Acq On : 17 Mar 2017 10:25 Operator: RLD-AGK
Sample : 135661,840415, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 10:45:58 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.13	128	908	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

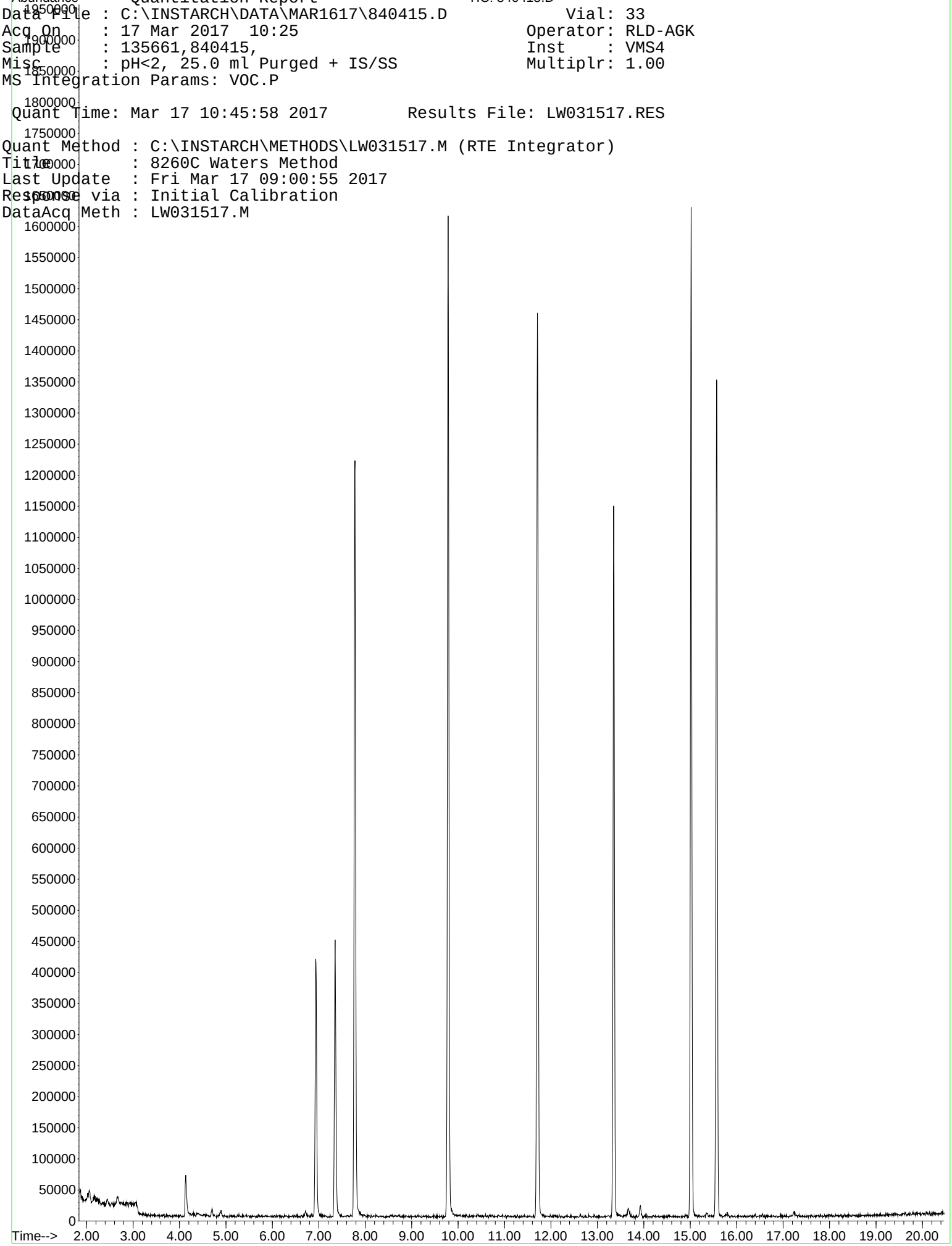
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: 840415.D)

Data File : C:\INSTARCH\DATA\MAR1617\840415.D Vial: 33
Acq On : 17 Mar 2017 10:25 Operator: RLD-AGK
Sample : 135661,840415, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 10:45:58 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840398.D Vial: 34
Acq On : 17 Mar 2017 10:54 Operator: RLD-AGK
Sample : 135661,840398, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 11:14:51 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1259848	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1024153	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	551556	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	298225	3.763	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 94 %			
45) SURR12DCAd4	7.35	102	67785	4.123	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 103 %			
61) SURRd8Tolule	9.79	98	1258024	4.031	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101 %			
83) SURR4BrFBenz	13.35	95	445422	3.974	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.15	50	3761	0.0273	ug/L	69
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	552	N.D.		
6) Chloroethane	2.91	64	1369	N.D.		
7) Dichloroflmethane	3.22	67	798	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	4.14	43	21724	Below	Cal	96
16) Iodomethane	4.23	142	543	0.3443	ug/L #	14
17) Carbon Dislf	4.31	76	3432	N.D.		
18) allylchloride	4.54	41	3123	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	11159	Below	Cal	96
21) tbutylalcohol	4.91	59	2527	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	6.72	42	6473	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840398.D Vial: 34
Acq On : 17 Mar 2017 10:54 Operator: RLD-AGK
Sample : 135661,840398, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 11:14:51 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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	7.44	78	4647	0.0142 ug/L	81
47)	12dichlorota	7.46	62	505	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.25	95	824	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	9.08	43	554	N.D.	
58)	2CLEVE	9.28	63	1469	0.0776 ug/L #	46
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.63	43	1258	N.D.	
62)	Toluene	9.87	92	172397	0.8499 ug/L	100
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.74	43	735	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	11.76	112	1211	N.D.	
73)	1Clhexane	11.71	91	1038	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	11.90	91	5942	N.D.	
76)	m p-Xylene	12.07	106	6065	N.D.	
77)	o-Xylene	12.62	106	3038	N.D.	
78)	Styrene	12.63	104	4692	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.38	55	1724	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	13.72	91	1046	N.D.	
89)	2chlorotolue	13.72	91	1046	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	13.98	105	886	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	14.53	105	2965	N.D.	
94)	sbutylbenzen	14.76	105	661	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.57	91	1487	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840398.D Vial: 34
Acq On : 17 Mar 2017 10:54 Operator: RLD-AGK
Sample : 135661,840398, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 11:14:51 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.13	128	1617	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

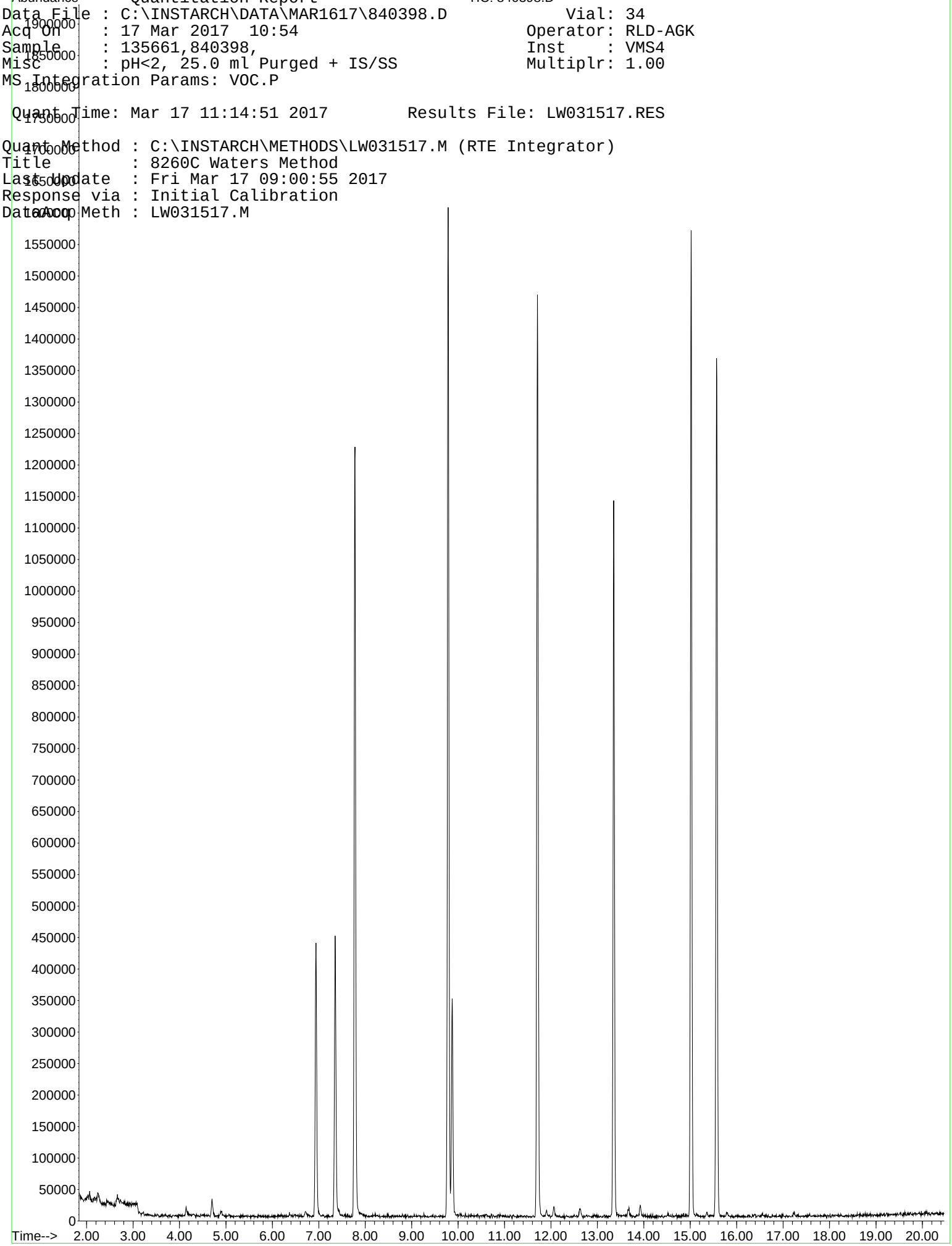
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840398.D

Data File : C:\INSTARCH\DATA\MAR1617\840398.D Vial: 34
Acq On : 17 Mar 2017 10:54 Operator: RLD-AGK
Sample : 135661,840398, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 11:14:51 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840416.D Vial: 35
Acq On : 17 Mar 2017 11:22 Operator: RLD-AGK
Sample : 135661,840416, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 11:43:38 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1210466	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	983256	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	538646	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	299097	3.928	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 98 %			
45) SURR12DCAd4	7.35	102	65809	4.166	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 104 %			
61) SURRd8Tolule	9.79	98	1211618	4.041	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101 %			
83) SURR4BrFBenz	13.35	95	434078	3.965	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.15	50	2643	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	1135	N.D.		
6) Chloroethane	2.89	64	1501	N.D.		
7) Dichloroflmethane	3.24	67	931	N.D.		
8) Trichlorofma	0.00	101	0	N.D.		
9) Ethylether	0.00	59	0	N.D.		
10) dichlorotfluoroethan	3.67	67	586	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	4.15	43	35406	Below	Cal	84
16) Iodomethane	4.22	142	753	0.3477	ug/L #	40
17) Carbon Dislf	4.31	76	3533	N.D.		
18) allylchloride	4.52	41	3230	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	11600	Below	Cal #	86
21) tbutylalcohol	4.89	59	4690	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	6.37	72	1072	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	6.71	42	7405	0.4328	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840416.D Vial: 35
Acq On : 17 Mar 2017 11:22 Operator: RLD-AGK
Sample : 135661,840416, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 11:43:38 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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	7.04	56	533	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.43	78	4864	0.0155 ug/L	78
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	8.22	95	957	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)	2CLEVE	9.26	63	13775	0.7574 ug/L #	73
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.65	43	758	N.D.	
62)	Toluene	9.87	92	155492	0.7978 ug/L	98
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.76	43	1687	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	11.73	112	621	N.D.	
73)	1Clhexane	11.71	91	2393	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	11.91	91	3860	N.D.	
76)	m p-Xylene	12.07	106	5358	N.D.	
77)	o-Xylene	12.63	106	2702	N.D.	
78)	Styrene	12.64	104	4982	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.35	55	1509	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	13.85	91	516	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	13.89	105	831	N.D.	
92)	tbutylbenzen	14.51	119	549	N.D.	
93)	124Trimetben	14.53	105	2468	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	15.01	146	588	N.D.	
96)	pIsopropylto	14.99	119	579	N.D.	
97)	14dichlorobe	15.07	146	754	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.56	91	1926	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\840416.D Vial: 35
Acq On : 17 Mar 2017 11:22 Operator: RLD-AGK
Sample : 135661,840416, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 11:43:38 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.13	128	1496	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

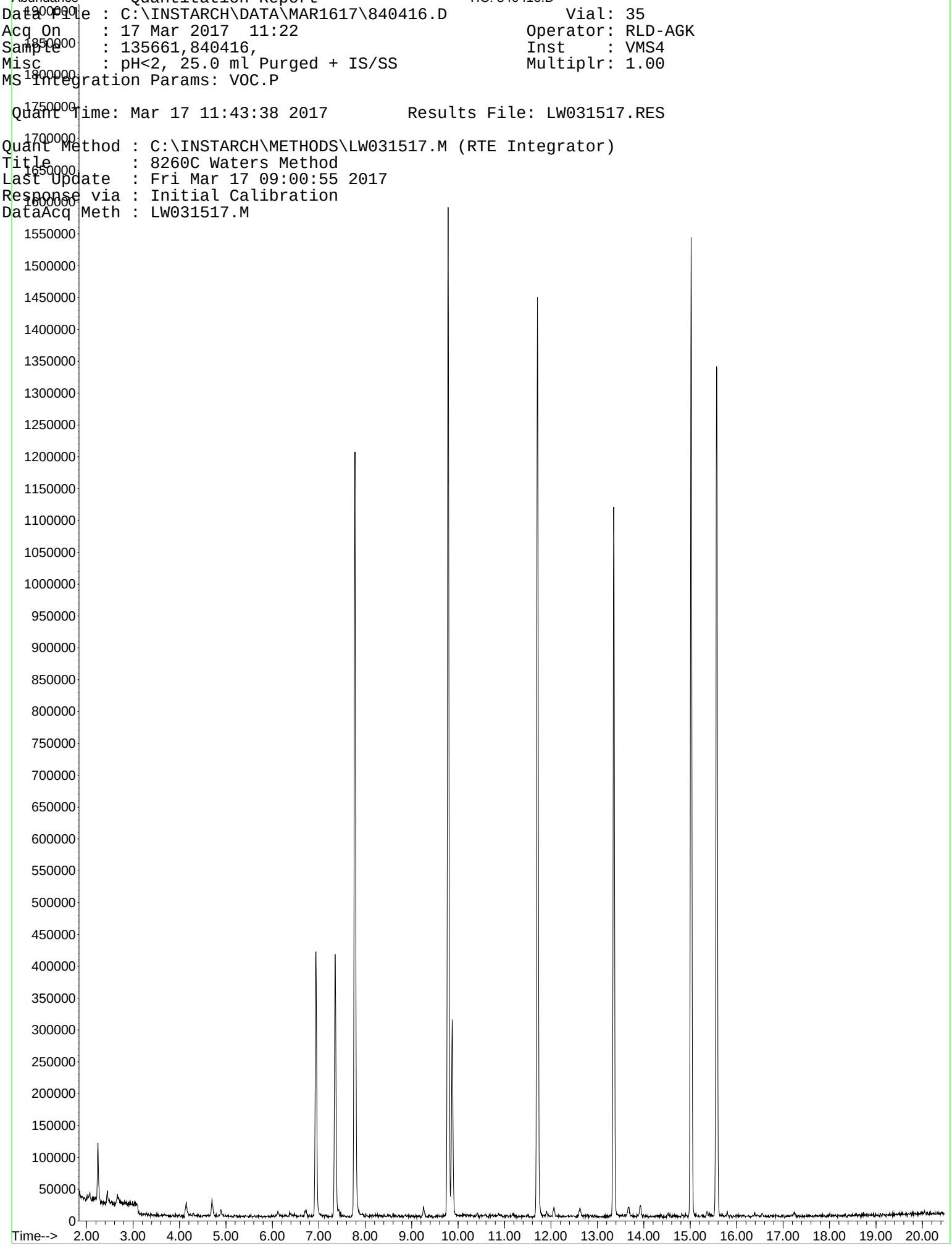
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: 840416.D)

Data File : C:\INSTARCH\DATA\MAR1617\840416.D Vial: 35
Acq On : 17 Mar 2017 11:22 Operator: RLD-AGK
Sample : 135661,840416, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 11:43:38 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Method Path : C:\INSTARCH\METHODS\
Method File : LS031317.M
Title : 8260C Low Level Soils Method
Last Update : Wed Mar 15 08:53:01 2017
Response Via : Initial Calibration

RJ 03/17/2017

Calibration Files mg/kg
1 0.001/0.010 =LLCALS1.D 2 0.002/0.020 =LLCALS2.D 3 0.005/0.050 =LLCALS3.D
4 0.010/0.100 =LLCALS4.D 5 0.020/0.200 =LLCALS5.D 6 0.030/0.300 =LLCALS6.D
7 0.040/0.400 =LLCALS7.D 8 0.080/0.800 =LLCALS8.D

		Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1)	I	FLUOROBENZENE**ISTD**	----------ISTD----------									
2)	T	Dichlorodi	0.274	0.258	0.238	0.233	0.208	0.202	0.194	0.193	0.225	13.56
3)	PT	Chloromethan	0.394	0.351	0.333	0.327	0.300	0.286	0.269	0.266	0.316	13.93
4)	CT	VinylChlorid	0.326	0.284	0.265	0.266	0.253	0.244	0.235	0.235	0.264	11.48
5)	T	Bromomethane	0.127	0.139	0.151	0.128	0.129	0.134	0.130	0.135	0.134	5.84
6)	T	Chloroethane	0.132	0.157	0.154	0.144	0.139	0.130	0.129	0.129	0.139	8.22
7)	T	dichloroflmetha	0.406	0.387	0.352	0.352	0.345	0.336	0.320	0.324	0.353	8.42
8)	T	Trichlorofma	0.326	0.279	0.270	0.282	0.264	0.267	0.255	0.259	0.275	8.16
9)	T	Ethylether	0.192	0.180	0.202	0.183	0.198	0.195	0.176	0.181	0.189	5.12
10)	T	dichlorotfluoro	0.249	0.230	0.205	0.217	0.208	0.198	0.189	0.192	0.211	9.72
11)	T	propyleneoxide	0.033	0.032	0.033	0.031	0.033	0.033	0.034	0.036	0.033	4.39
12)	T	Acrolein	0.051	0.051	0.050	0.048	0.051	0.048	0.049	0.051	0.050	2.95
13)	CT	11dichlorthe	0.220	0.183	0.155	0.173	0.165	0.164	0.157	0.158	0.172	12.54
14)	T	Trichlorotfluor	0.199	0.187	0.177	0.176	0.169	0.164	0.160	0.163	0.174	7.70
15)	T	Acetone	0.106	0.100	0.105	0.096	0.089	0.081	0.080	0.075	0.091	12.96
16)	T	Iodomethane	0.111	0.130	0.131	0.131	0.162	0.174	0.172	0.195	-----	
								Q A= 0.005 R=1.000 B= 0.157 C= -0.012				
17)	T	Carbon Dislf	0.632	0.569	0.520	0.524	0.522	0.505	0.484	0.479	0.529	9.43
18)	T	allylchloride	0.493	0.443	0.392	0.378	0.375	0.364	0.354	0.352	0.394	12.56
19)	T	methylacetate	0.045	0.045	0.046	0.038	0.042	0.043	0.042	0.044	0.043	5.76
20)	T	Methylchlorid	0.713	0.830	0.492	0.340	0.248	0.234	0.223	0.210	-----	
								Q A= -0.001 R=0.997 B= 0.199 C= 0.056				
21)	T	Acrylonitrile	0.094	0.091	0.091	0.090	0.092	0.087	0.086	0.088	0.090	3.04
22)	T	t12dichlorte	0.213	0.193	0.187	0.185	0.182	0.177	0.173	0.174	0.186	6.97
23)	T	tbutylalcohol	0.018	0.020	0.020	0.019	0.021	0.021	0.022	0.023	0.021	7.14
24)	T	MtBE	0.494	0.496	0.493	0.495	0.513	0.503	0.502	0.502	1.94	

			0.520								
25)	T	Hexane	0.377	0.329	0.308	0.313	0.300	0.290	0.271	0.309	10.59
			0.286								
26)	PT	11dichlorota	0.457	0.436	0.401	0.390	0.394	0.377	0.366	0.399	8.03
			0.370								
27)	T	Vinylacetate	0.221	0.290	0.367	0.424	0.460	0.440	0.412	-----	
								Q	A= -0.005	R=0.999	
									B= 0.530		
									C= -0.265		
28)	T	chloroprene	0.408	0.369	0.372	0.372	0.361	0.352	0.340	0.364	6.34
			0.335								
29)	T	Diisopether	0.928	0.925	0.946	0.928	0.936	0.909	0.886	0.915	3.25
			0.856								
30)	T	ETBE	0.529	0.531	0.541	0.552	0.558	0.572	0.582	0.559	4.68
			0.604								
31)	T	22dichloropr	0.275	0.236	0.220	0.233	0.235	0.230	0.231	0.238	6.95
			0.243								
32)	T	c12dichlorte	0.277	0.247	0.246	0.234	0.232	0.227	0.218	0.238	8.04
			0.220								
33)	T	2Butanone	0.019	0.023	0.022	0.021	0.022	0.022	0.022	0.022	5.26
			0.022								
34)	T	propionitrile	0.037	0.038	0.036	0.035	0.037	0.034	0.034	0.036	4.77
			0.035								
35)	T	Ethylacetate	0.007	0.008	0.008	0.007	0.008	0.007	0.008	0.008#	5.88
			0.007								
36)	T	methacrylonitri	0.080	0.075	0.082	0.080	0.083	0.081	0.079	0.080	3.17
			0.082								
37)	T	Bromochlorma	0.127	0.121	0.108	0.110	0.113	0.109	0.105	0.112	7.08
			0.105								
38)	T	Tetrahydofur	0.089	0.089	0.086	0.083	0.086	0.081	0.083	0.085	3.66
			0.082								
39)	CT	Chloroform	0.397	0.399	0.367	0.361	0.355	0.343	0.337	0.363	6.71
			0.339								
40)	T	111trichlota	0.308	0.282	0.284	0.279	0.279	0.277	0.271	0.283	3.93
			0.282								
41)	S	SURRDibrflma	0.239	0.249	0.257	0.249	0.259	0.256	0.254	0.253	2.61
			0.259								
42)	T	Cyclohexane	0.468	0.394	0.361	0.382	0.373	0.372	0.359	0.385	9.25
			0.368								
43)	T	Carbtetraclo	0.179	0.189	0.178	0.199	0.205	0.208	0.209	0.199	8.05
			0.224								
44)	T	11dicloprope	0.109	0.107	0.096	0.099	0.095	0.095	0.092	0.098	6.57
			0.093								
45)	S	SURR12DCAd4	0.058	0.059	0.057	0.060	0.055	0.056	0.055	0.057	3.84
			0.054								
46)	T	Benzene	0.961	0.841	0.779	0.806	0.793	0.764	0.736	0.802	9.09
			0.739								
47)	T	12dichlorota	0.324	0.347	0.313	0.310	0.314	0.304	0.297	0.314	5.16
			0.299								
48)	T	TAME	0.332	0.386	0.381	0.396	0.389	0.414	0.422	0.398	9.48
			0.463								
49)	T	trichloroete	0.247	0.236	0.213	0.205	0.207	0.199	0.196	0.213	8.69
			0.200								
50)	T	methylcyclohexa	0.313	0.289	0.280	0.294	0.290	0.287	0.280	0.291	3.58
			0.294								
51)	CT	12dicloropra	0.260	0.267	0.242	0.235	0.248	0.239	0.230	0.245	5.25
			0.238								
52)	T	23dicl1propene	0.321	0.296	0.298	0.306	0.309	0.309	0.294	0.305	2.91
			0.307								
53)	T	Dibromometha	0.152	0.145	0.139	0.133	0.141	0.135	0.130	0.139	5.22
			0.134								
54)	T	methylmethacryl	0.105	0.124	0.123	0.128	0.134	0.130	0.135	0.127	8.62
			0.141								
55)	T	14dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	5.19
			0.002								
56)	T	Bromodiclrma	0.253	0.266	0.250	0.260	0.261	0.269	0.259	0.261	2.65
			0.269								
57)	T	2Nitropropane	0.027	0.026	0.025	0.031	0.044	0.049	0.052	-----	
			0.063								

```
                                                    Q  A=  0.001 R=0.999
                                                       B=  0.042
                                                       C= -0.030
58) T   c13dicloproe    0.219 0.214 0.241 0.249 0.274 0.279 0.276 0.257  12.33
                        0.304
59) T   4Meth2Pentan    0.252 0.275 0.267 0.263 0.266 0.249 0.240 0.252   9.02
                        0.203
60) S   SURRd8Tolule     1.001 1.016 0.986 0.994 0.988 0.966 0.975 0.988   1.57
                        0.983
61) CT  Toluene         0.641 0.549 0.498 0.497 0.493 0.483 0.457 0.511  11.59
                        0.468
62) T   t13Dicloprop    0.177 0.176 0.188 0.192 0.213 0.222 0.222 0.205  12.48
                        0.248
63) T   ethylmethacryla 0.187 0.212 0.219 0.231 0.243 0.244 0.245 0.229   9.39
                        0.250
64) T   112Triclotha    0.162 0.165 0.155 0.151 0.157 0.155 0.151 0.156   3.26
                        0.153
65) T   Tetrachlorte    0.290 0.215 0.221 0.231 0.222 0.214 0.207 0.227  11.65
                        0.216
66) T   13Diclorpropa   0.321 0.312 0.309 0.308 0.310 0.305 0.293 0.308   2.70
                        0.302

67) I   d5-CHLOROBENZENE**IST ----------------ISTD--------------------
68) T   2Hexanone       0.221 0.228 0.235 0.235 0.245 0.232 0.231 0.229   4.69
                        0.209
69) T   Clorodibrmta    0.227 0.241 0.236 0.243 0.267 0.265 0.272 0.255   8.19
                        0.287
70) T   12Dibrometha    0.234 0.212 0.231 0.233 0.245 0.240 0.242 0.236   4.97
                        0.250
71) PT  Chlorobenzen    0.858 0.766 0.738 0.729 0.740 0.695 0.693 0.739   7.46
                        0.692
72) T   1Clhexane       0.385 0.321 0.312 0.317 0.317 0.312 0.308 0.324   7.75
                        0.322
73) T   1112Tetclota    0.243 0.213 0.216 0.228 0.246 0.246 0.248 0.238   7.45
                        0.265
74) CT  Ethylbenzene    1.329 1.163 1.187 1.188 1.186 1.150 1.120 1.180   5.59
                        1.121
75) T   m p-Xylene      0.519 0.448 0.458 0.458 0.467 0.447 0.434 0.459   5.71
                        0.443
76) T   o-Xylene        0.510 0.434 0.446 0.432 0.455 0.448 0.443 0.453   5.41
                        0.455
77) T   Styrene         0.795 0.705 0.758 0.771 0.802 0.777 0.757 0.768   3.89
                        0.777
78) PT  Bromoform       0.156 0.142 0.154 0.162 0.171 0.181 0.188 0.170  12.39
                        0.206
79) T   Isopropylben    1.196 1.141 1.102 1.128 1.160 1.118 1.089 1.129   3.19
                        1.096

80) I   d4-1,4-DICHLOROBENZEN ----------------ISTD--------------------
81) T   cyclohexanone   0.014 0.013 0.014 0.014 0.017 0.017 0.018 0.016  14.01
                        0.019
82) S   SURR4BrFBenz    0.838 0.841 0.835 0.812 0.825 0.847 0.837 0.832   1.45
                        0.817
83) T   Bromobenzene    0.722 0.671 0.616 0.624 0.622 0.629 0.604 0.636   6.39
                        0.603
84) PT  1122Tetrclta    0.524 0.593 0.541 0.546 0.580 0.581 0.571 0.563   4.21
                        0.565
85) T   123Triclproa    0.486 0.583 0.501 0.510 0.637 0.636 0.536 0.555  10.56
                        0.553
86) T   14dichloro2bute 0.076 0.069 0.089 0.108 0.111 0.117 0.124 -----
                        0.138
                                                    Q  A=  0.007 R=1.000
                                                       B=  0.110
                                                       C= -0.004
87) T   n-Propylbenz    2.981 2.676 2.481 2.481 2.465 2.490 2.313 2.515   9.10
                        2.237
88) T   2chlorotolue    1.657 1.622 1.483 1.486 1.497 1.506 1.408 1.506   6.13
                        1.392
89) T   4chlorotolue    1.891 1.864 1.774 1.700 1.732 1.745 1.615 1.744   5.70
                        1.627
```

90)	T	135Trimebenz	1.846	1.809	1.754	1.777	1.775	1.837	1.689	1.769	3.69
			1.665								
91)	T	tbutylbenzen	1.685	1.497	1.503	1.519	1.581	1.585	1.502	1.545	4.42
			1.486								
92)	T	124Trimetben	2.045	1.894	1.803	1.803	1.848	1.845	1.727	1.833	5.83
			1.700								
93)	T	sbutylbenzen	2.591	2.298	2.277	2.283	2.287	2.318	2.150	2.289	6.26
			2.109								
94)	T	13Diclorbenz	1.272	1.216	1.209	1.112	1.161	1.140	1.068	1.156	6.35
			1.068								
95)	T	pIsopropylto	2.187	1.951	1.910	1.963	1.977	2.010	1.850	1.962	5.48
			1.851								
96)	T	14dichlorobe	1.383	1.248	1.207	1.154	1.151	1.171	1.075	1.183	8.46
			1.075								
97)	T	12dichlorobe	1.378	1.210	1.128	1.121	1.120	1.133	1.052	1.147	9.34
			1.038								
98)	T	nButylbenzen	2.127	1.872	1.784	1.730	1.793	1.788	1.652	1.801	8.33
			1.665								
99)	T	12dibromo3cl	0.079	0.086	0.106	0.105	0.115	0.114	0.119	0.103	14.88
100)	T	135Trichloroben	0.935	0.872	0.836	0.823	0.842	0.845	0.766	0.838	6.14
			0.789								
101)	T	124Trichlobe	0.855	0.785	0.751	0.746	0.771	0.781	0.722	0.768	5.40
			0.736								
102)	T	Hexachlorobu	0.549	0.439	0.431	0.435	0.438	0.439	0.410	0.445	9.78
			0.418								
103)	T	Naphthalene	1.698	1.592	1.631	1.716	1.759	1.779	1.734	1.699	3.71
			1.685								
104)	T	123Trichlben	0.798	0.770	0.730	0.737	0.750	0.763	0.726	0.748	3.74
			0.711								

Total Average %RSD 6.94

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

LS031317.M Fri Mar 17 13:51:33 2017

Data File : C:\Instarch\Data\MAR1317\BFB1.D Vial: 1
Acq On : 13 Mar 2017 15:23 Operator: RLD-AGK
Sample : BFB INJ Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS031317.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.765 to 4.790 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	6022	PASS
75	95	30	60	51.0	12819	PASS
95	95	100	100	100.0	25125	PASS
96	95	5	9	6.7	1671	PASS
173	174	0.00	2	0.8	165	PASS
174	95	50	100	87.5	21995	PASS
175	174	5	9	5.1	1127	PASS
176	174	95	101	99.8	21949	PASS
177	176	5	9	7.1	1551	PASS

LS031317.M Fri Mar 17 13:45:53 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS1.D Vial: 5
Acq On : 13 Mar 2017 17:07 Operator: RLD-AGK
Sample : 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: Mar 14 08:32:43 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:59 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	1089136	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	870100	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	466660	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	260783	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	62881	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1090173	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	391113	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	14923m	0.0011	mg/kg	100
3) Chloromethan	2.12	50	21443m	0.0012	mg/kg	98
4) VinylChlorid	2.27	62	17736	0.0012	mg/kg	87
5) Bromomethane	2.75	94	6921m	0.0008	mg/kg#	96
6) Chloroethane	2.91	64	7214m	0.0009	mg/kg#	95
7) dichloroflmethane	3.23	67	22105	0.0012	mg/kg	95
8) Trichlorofma	3.30	101	17739	0.0012	mg/kg	94
9) Ethylether	3.75	59	10470	0.0010	mg/kg	93
10) dichlorotfluoroethan	3.77	67	13585	0.0012	mg/kg	96
11) propyleneoxide	3.81	58	17904	0.0099	mg/kg	94
12) Acrolein	3.91	56	13955	0.0051	mg/kg	83
13) 11dichlorthe	4.03	96	11970	0.0013	mg/kg#	85
14) Trichlorotfluoroeth	4.06	101	21712	0.0023	mg/kg	96
15) Acetone	4.13	43	57493m	0.0108	mg/kg	97
16) Iodomethane	4.22	142	12141m	0.0014	mg/kg	80
17) Carbon Dislf	4.30	76	68826	0.0024	mg/kg	98
18) allylchloride	4.53	41	53711	0.0025	mg/kg	96
19) methylacetate	4.60	74	2463	0.0010	mg/kg#	33
20) Methylchlorid	4.69	84	38836m	0.0016	mg/kg#	93
21) Acrylonitrile	5.03	53	25593	0.0052	mg/kg	95
22) t12dichlorte	5.07	96	11577	0.0011	mg/kg	96
23) tbutylalcohol	4.89	59	50366	0.0450	mg/kg	100
24) MtBE	5.08	73	26886	0.0010	mg/kg	96
25) Hexane	5.43	57	41106	0.0024	mg/kg	98
26) 11dichlorota	5.61	63	24862	0.0011	mg/kg	95
27) Vinylacetate	5.70	43	120301	0.0060	mg/kg	98
28) chloroprene	5.72	53	44468	0.0022	mg/kg	96
29) Diisopether	5.72	45	50529	0.0010	mg/kg#	19
30) ETBE	6.17	59	28818	0.0009	mg/kg	97
31) 22dichloropr	6.33	77	14996	0.0012	mg/kg	97
32) c12dichlorte	6.34	96	15092	0.0012	mg/kg	94
33) 2Butanone	6.37	72	10515	0.0089	mg/kg	90
34) propionitrile	6.43	54	20296	0.0105	mg/kg	98
35) Ethylacetate	6.46	88	1890	0.0046	mg/kg#	87
36) methacrylonitrile	6.62	67	8740	0.0020	mg/kg	95
37) Bromochlorma	6.64	128	6927	0.0011	mg/kg#	83
38) Tetrahydofur	6.71	42	48694	0.0105	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS1.D Vial: 5
Acq On : 13 Mar 2017 17:07 Operator: RLD-AGK
Sample : 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: Mar 14 08:32:43 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:59 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.74	83	21639	0.0011 mg/kg	90
40) 111trichlota	6.97	97	16794	0.0011 mg/kg	97
42) Cyclohexane	7.03	56	25499	0.0012 mg/kg	93
43) Carbtetraclo	7.17	119	9729	0.0009 mg/kg	94
44) 11dicloprope	7.18	110	5929	0.0011 mg/kg	92
46) Benzene	7.43	78	52345	0.0012 mg/kg	98
47) 12dichlorota	7.46	62	17661	0.0010 mg/kg	100
48) TAME	7.57	73	18074	0.0008 mg/kg	92
49) trichloroete	8.23	95	13424	0.0012 mg/kg	95
50) methylcyclohexane	8.48	83	17040	0.0011 mg/kg	93
51) 12dicloropra	8.51	63	14172	0.0011 mg/kg	87
52) 23dicl1propene	8.58	75	17471	0.0011 mg/kg	96
53) Dibromometha	8.66	93	8296	0.0011 mg/kg	95
54) methylmethacrylate	8.67	69	5693	0.0008 mg/kg	95
55) 14dioxane	8.70	88	6676	0.0539 mg/kg	94
56) Bromodiclrma	8.87	83	13792	0.0010 mg/kg	95
57) 2Nitropropane	9.14	43	14548	0.0067 mg/kg	98
58) c13dicloproe	9.44	75	11906	0.0009 mg/kg	94
59) 4Meth2Pentan	9.63	43	137394	0.0100 mg/kg	98
61) Toluene	9.87	92	34894	0.0013 mg/kg	99
62) t13Dicloprop	10.16	75	9620m	0.0009 mg/kg	83
63) ethylmethacrylate	10.28	69	20414	0.0016 mg/kg#	79
64) 112Triclotha	10.39	83	8818	0.0010 mg/kg	94
65) Tetrachlorte	10.60	166	15801	0.0013 mg/kg	92
66) 13Diclorpropa	10.61	76	17507	0.0010 mg/kg	89
68) 2Hexanone	10.72	43	96333	0.0097 mg/kg	97
69) Clorodibrmta	10.91	129	9863	0.0009 mg/kg	97
70) 12Dibrometha	11.08	107	10166	0.0010 mg/kg	83
71) Chlorobenzen	11.75	112	37339	0.0012 mg/kg#	82
72) 1Clhexane	11.71	91	16761	0.0012 mg/kg#	57
73) 1112Tetclota	11.87	131	10582	0.0010 mg/kg	96
74) Ethylbenzene	11.90	91	57797	0.0011 mg/kg	99
75) m p-Xylene	12.06	106	45196	0.0023 mg/kg	96
76) o-Xylene	12.62	106	22181	0.0011 mg/kg	93
77) Styrene	12.63	104	34567	0.0010 mg/kg	96
78) Bromoform	12.88	173	6766	0.0009 mg/kg	98
79) Isopropylben	13.14	105	52025	0.0011 mg/kg	99
81) cyclohexanone	13.25	55	6672	0.0182 mg/kg#	95
83) Bromobenzene	13.57	156	16853	0.0011 mg/kg	98
84) 1122Tetrclta	13.55	83	12218	0.0009 mg/kg	84
85) 123Triclproa	13.61	75	11349	0.0009 mg/kg	94
86) 14dichloro2butene	13.64	53	1783	0.0007 mg/kg#	41
87) n-Propylbenz	13.73	91	69562	0.0012 mg/kg	98
88) 2chlorotolue	13.85	91	38656	0.0011 mg/kg	95
89) 4chlorotolue	14.00	91	44116	0.0011 mg/kg	96
90) 135Trimebenz	13.98	105	43084	0.0010 mg/kg	95
91) tbutylbenzen	14.45	119	39319	0.0011 mg/kg	96
92) 124Trimetben	14.53	105	47724	0.0011 mg/kg	99
93) sbutylbenzen	14.77	105	60457	0.0011 mg/kg	96
94) 13Diclorbenz	14.92	146	29687	0.0011 mg/kg	98
95) pIsopropylto	14.98	119	51030	0.0011 mg/kg	97
96) 14dichlorobe	15.05	146	32264	0.0012 mg/kg	85
97) 12dichlorobe	15.60	146	32149	0.0012 mg/kg	91
98) nButylbenzen	15.59	91	49630	0.0012 mg/kg	94
99) 12dibromo3cl	16.70	157	1843m	0.0007 mg/kg#	0
100) 135Trichlorobenzene	17.01	180	21820	0.0011 mg/kg	96
101) 124Trichlobe	17.82	180	19958	0.0011 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS1.D Vial: 5
Acq On : 13 Mar 2017 17:07 Operator: RLD-AGK
Sample : 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: Mar 14 08:32:43 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:59 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	12815	0.0012 mg/kg	95
103) Naphthalene	18.14	128	39622	0.0010 mg/kg	97
104) 123Trichlben	18.44	180	18618	0.0011 mg/kg	97

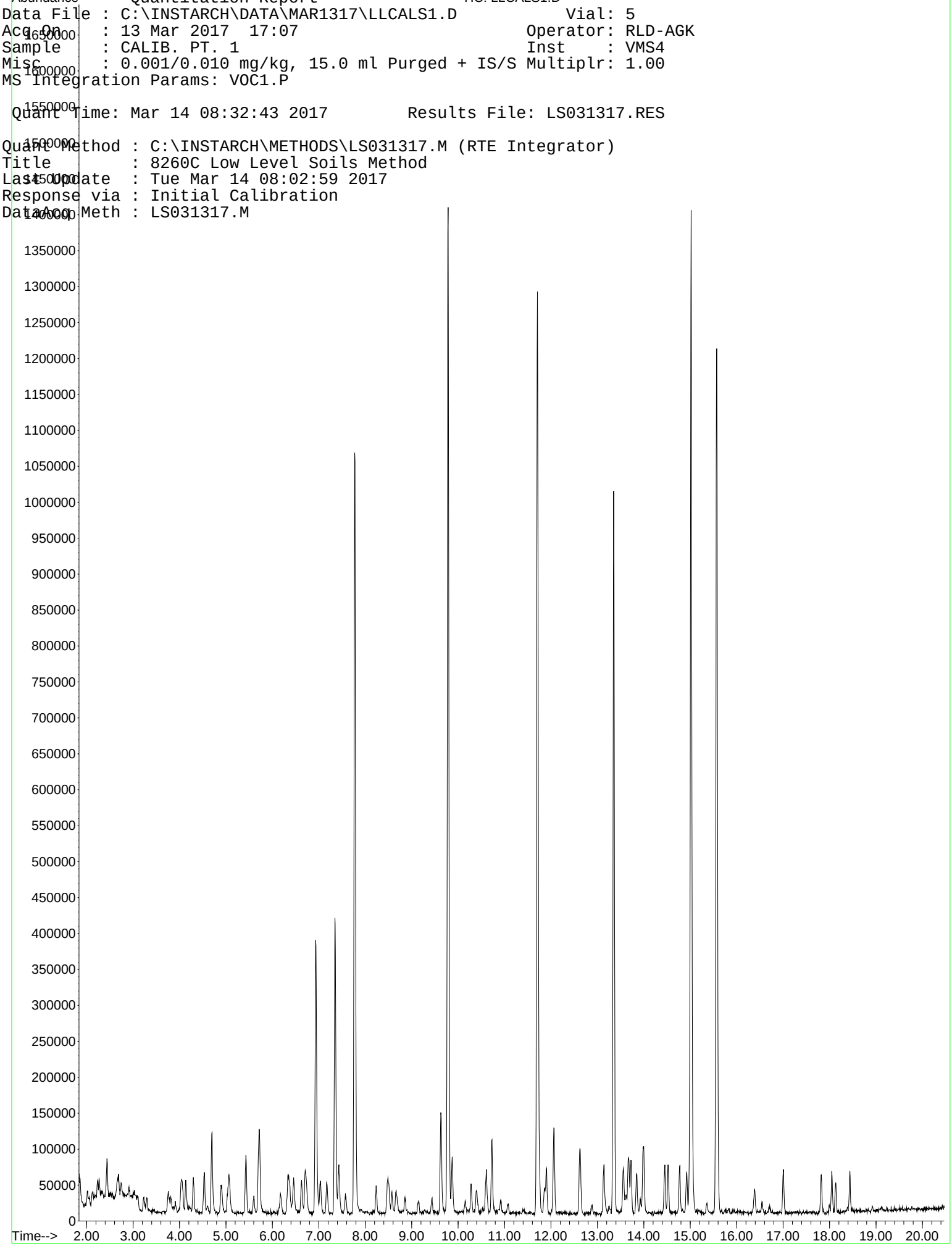
(#) = qualifier out of range (m) = manual integration

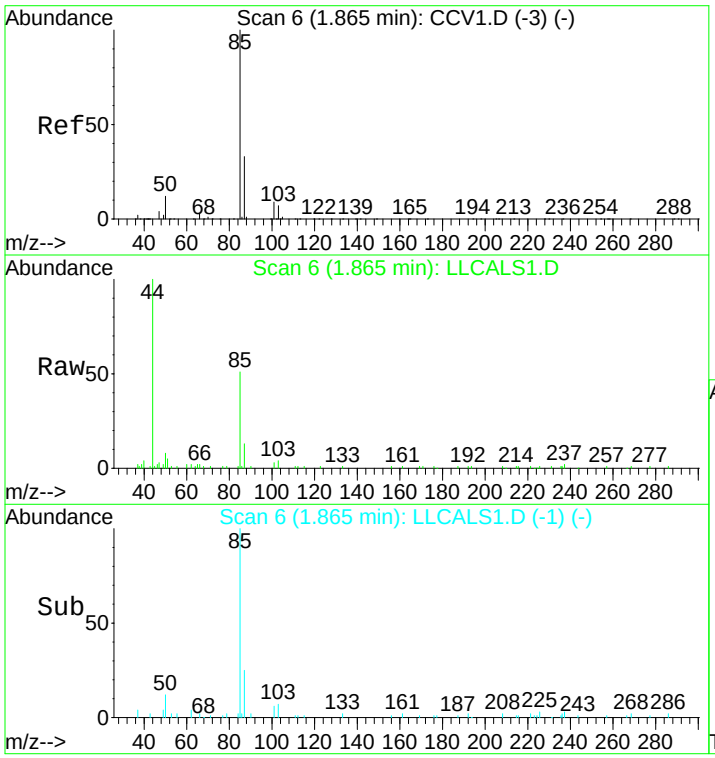
Abundance Quantitation Report TIC: LLCALS1.D

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS1.D Vial: 5
Acq On : 13 Mar 2017 17:07 Operator: RLD-AGK
Sample : 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: Mar 14 08:32:43 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:59 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M





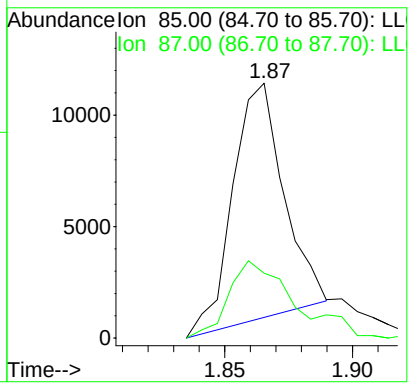
#2
Dichlorodi
Concen: 0.00 mg/kg m
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

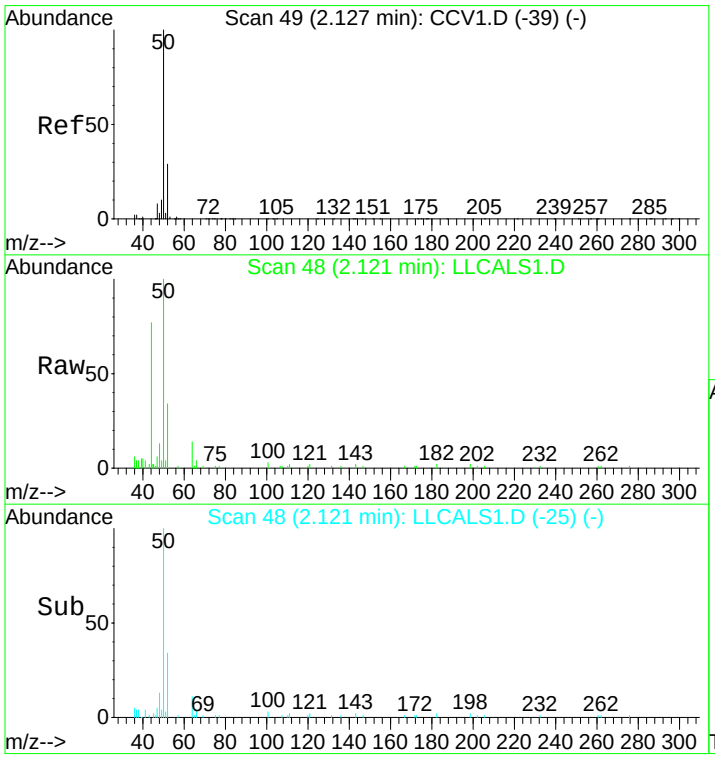
Tgt Ion: 85 Resp: 14923

Ion	Ratio	Lower	Upper
85	100		
87	39.1	11.7	51.7

After Manual Integration

RJ 03/17/2017

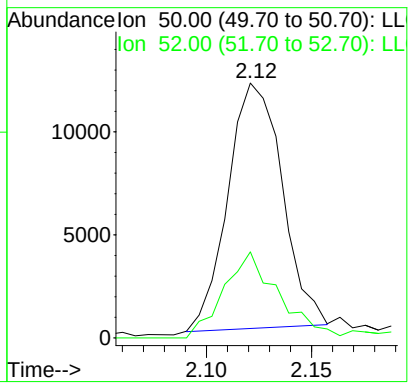




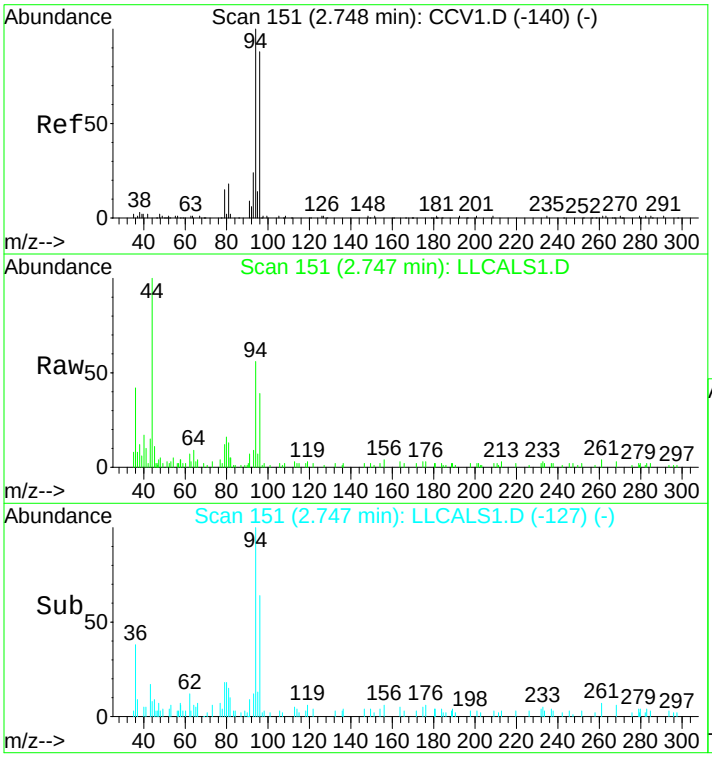
#3
Chloromethan
Concen: 0.00 mg/kg m
RT: 2.12 min Scan# 48
Delta R.T. -0.01 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 50 Resp: 21443

Ion	Ratio	Lower	Upper
50	100		
52	37.8	13.6	53.6



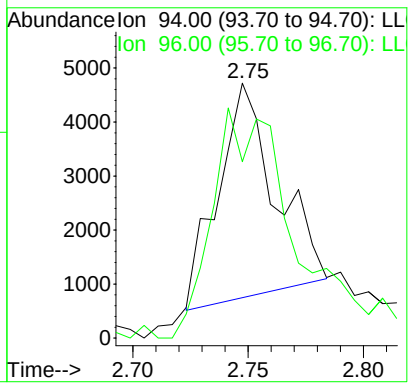
AgK 03/22/17

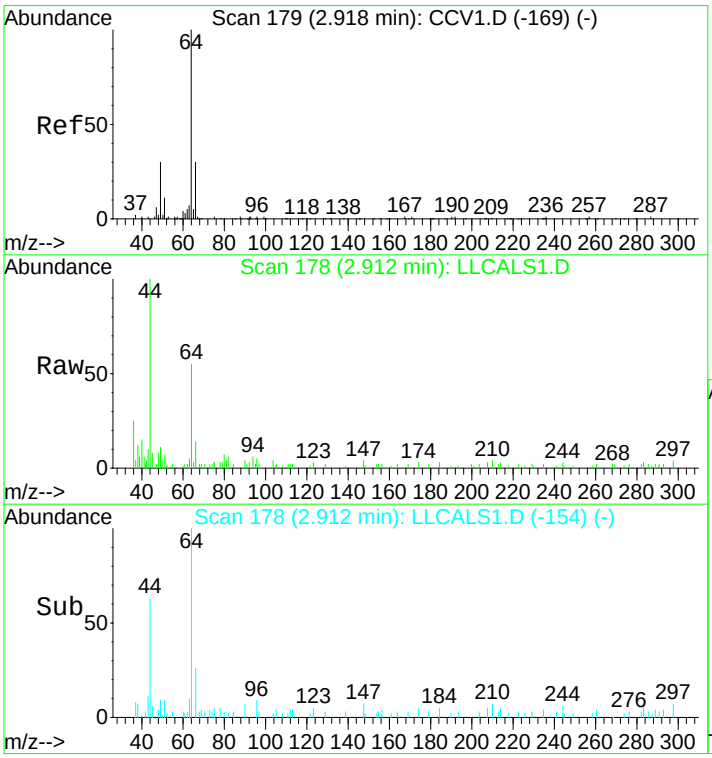


#5
Bromomethane
Concen: 0.00 mg/kg m
RT: 2.75 min Scan# 151
Delta R.T. -0.01 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 94 Resp: 6921

Ion	Ratio	Lower	Upper
94	100		
96	169.2	77.2	117.2#

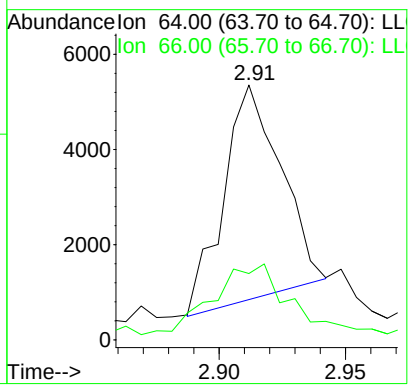




#6
Chloroethane
Concen: 0.00 mg/kg m
RT: 2.91 min Scan# 178
Delta R.T. -0.01 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 64 Resp: 7214

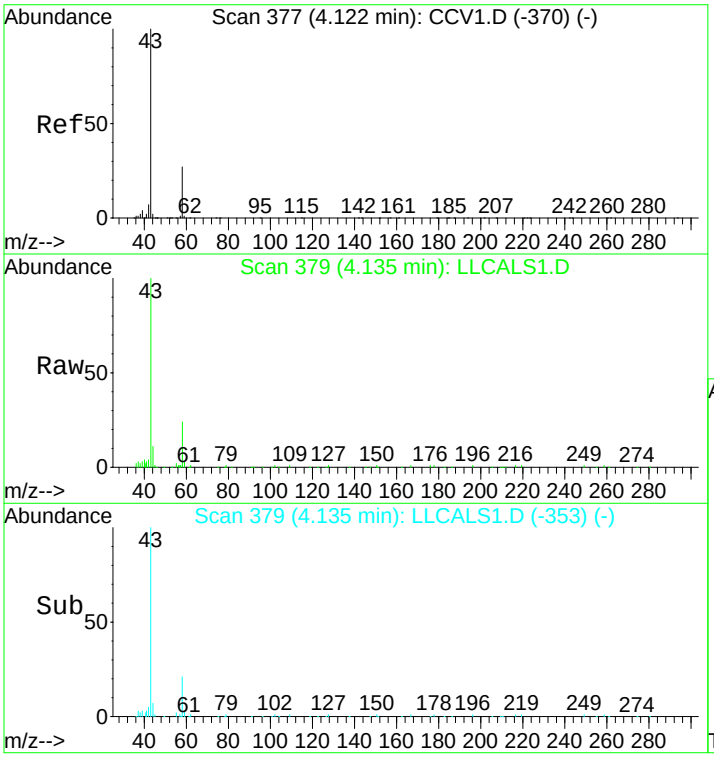
Ion	Ratio	Lower	Upper
64	100		
66	56.3	14.0	54.0#



After Manual Integration

RJ 03/17/2017

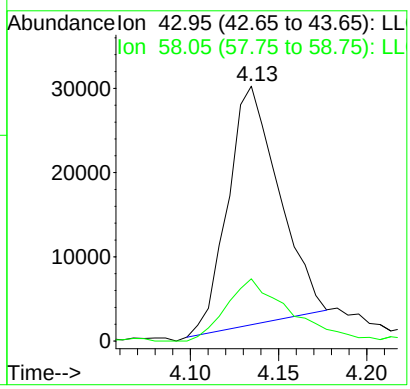
AgK 03/22/17



#15
Acetone
Concen: 0.01 mg/kg m
RT: 4.13 min Scan# 379
Delta R.T. 0.01 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

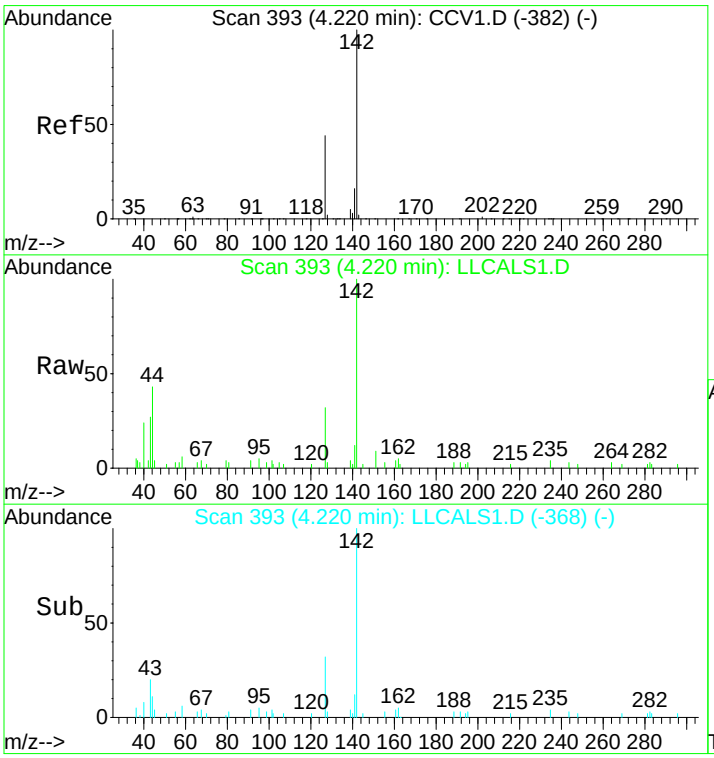
Tgt Ion: 43 Resp: 57493

Ion	Ratio	Lower	Upper
43	100		
58	32.2	5.8	45.8



After Manual Integration

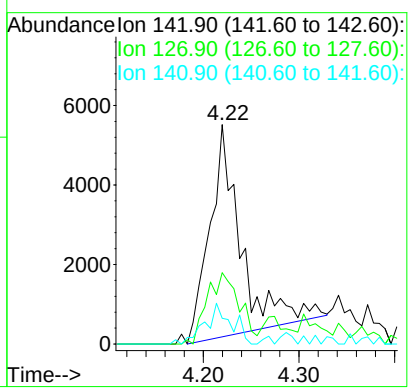
RJ 03/17/2017



#16
Iodomethane
Concen: 0.00 mg/kg m
RT: 4.22 min Scan# 393
Delta R.T. 0.00 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion:142 Resp: 12141

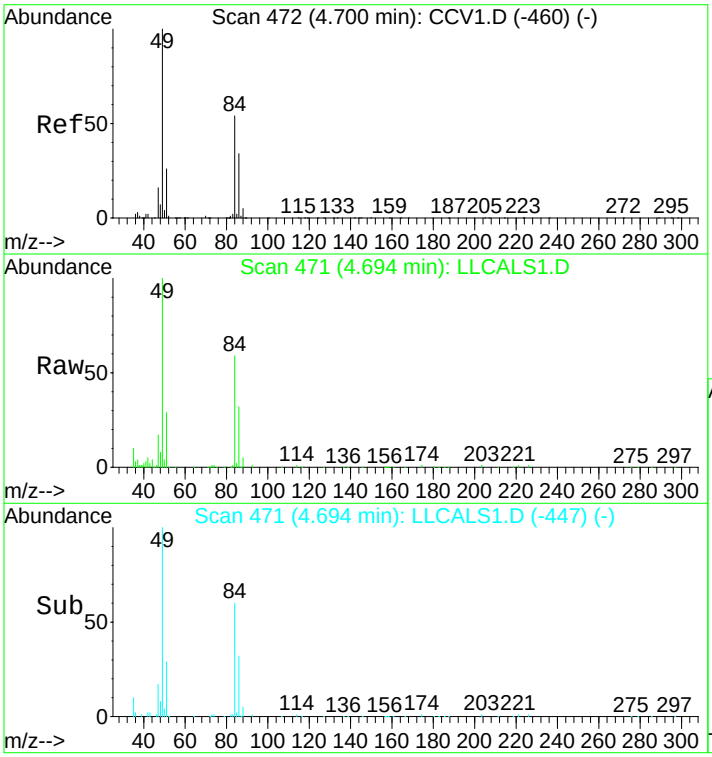
Ion	Ratio	Lower	Upper
142	100		
127	34.9	20.7	60.7
141	16.0	0.0	35.3



AgK 03/22/17

After Manual Integration

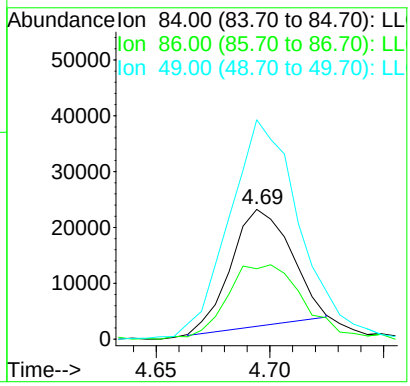
RJ 03/17/2017

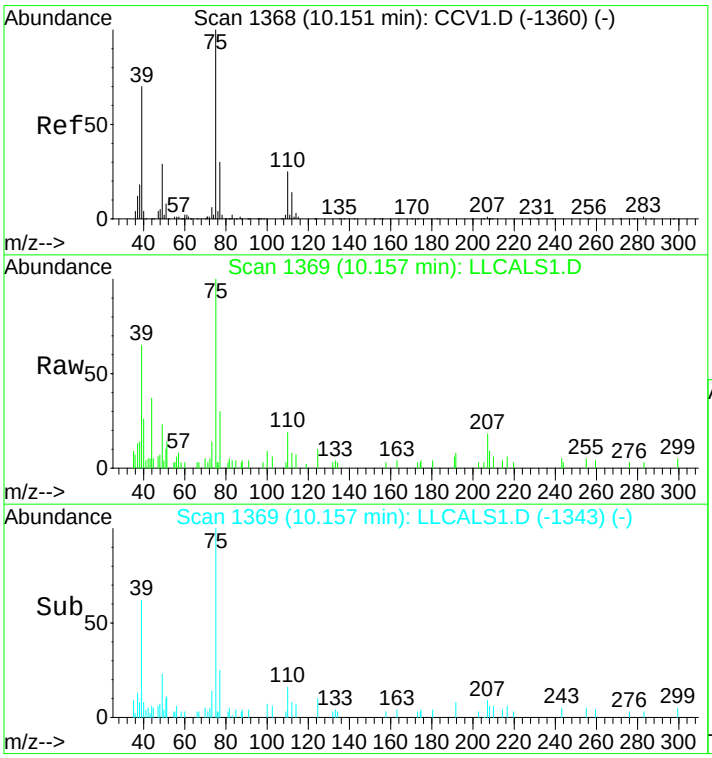


#20
Methylchlorid
Concen: 0.00 mg/kg m
RT: 4.69 min Scan# 471
Delta R.T. -0.01 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 84 Resp: 38836

Ion	Ratio	Lower	Upper
84	100		
86	81.6	46.6	86.6
49	223.4	163.1	203.1#

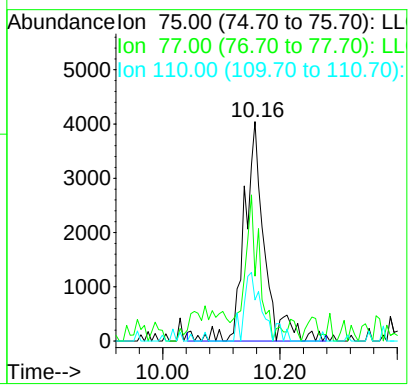




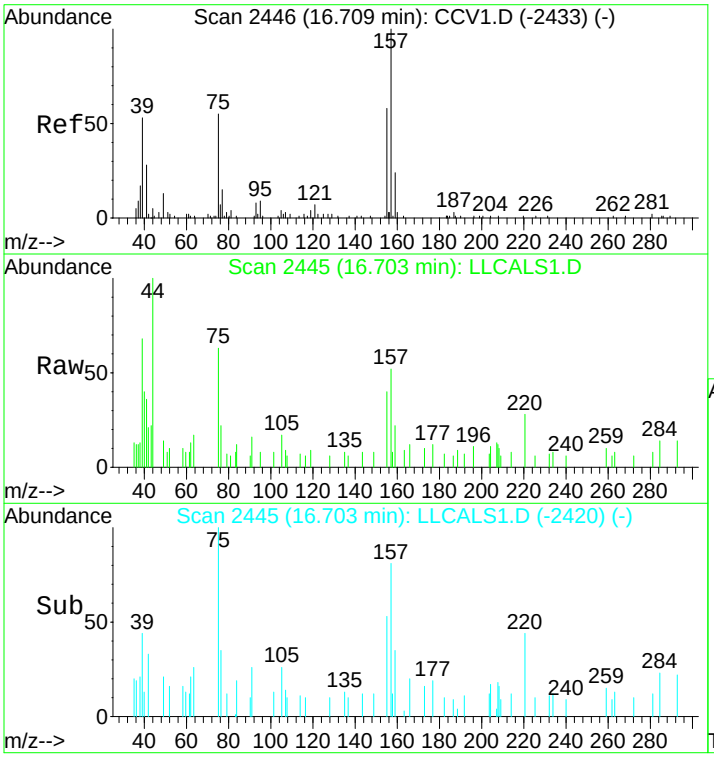
#62
t13Dicloprop
Concen: 0.00 mg/kg m
RT: 10.16 min Scan# 1369
Delta R.T. 0.01 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 75 Resp: 9620

Ion	Ratio	Lower	Upper
75	100		
77	40.7	12.8	52.8
110	25.2	5.6	45.6



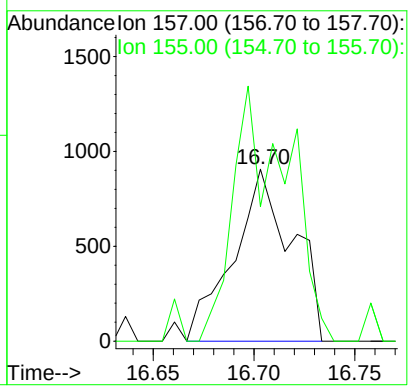
AgK 03/22/17



#99
12dibromo3cl
Concen: 0.00 mg/kg m
RT: 16.70 min Scan# 2445
Delta R.T. 0.00 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion:157 Resp: 1843

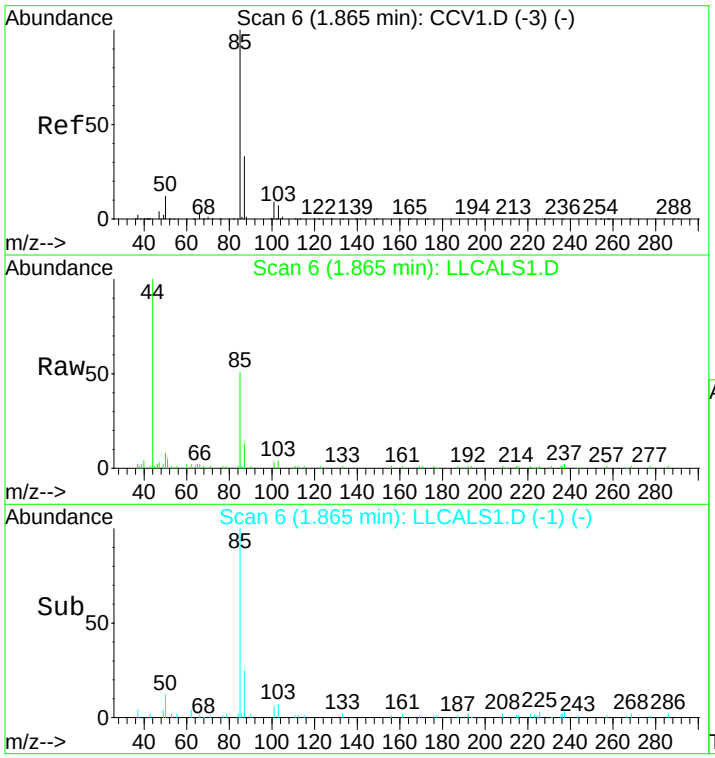
Ion	Ratio	Lower	Upper
157	100		
155	0.0	57.1	97.1#



After Manual Integration

RJ 03/17/2017

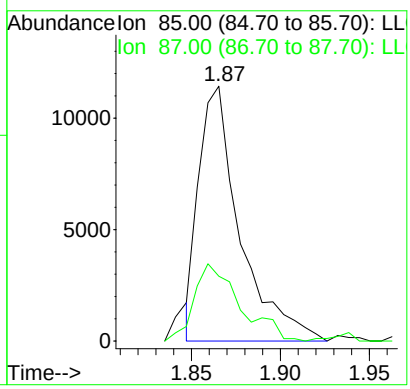
AGK 03/22/17



#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 85 Resp: 18382

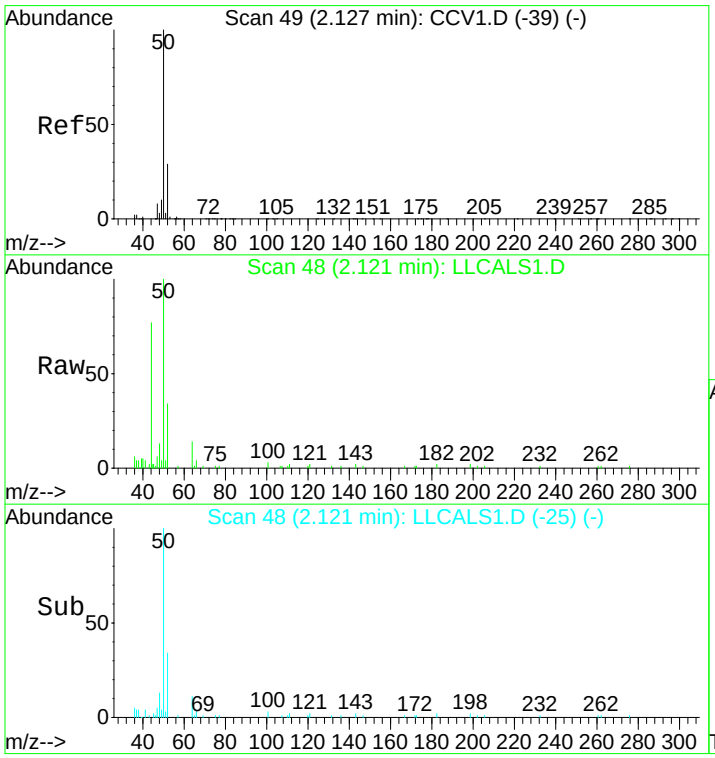
Ion	Ratio	Lower	Upper
85	100		
87	31.7	11.6	51.6



Before Manual Integration

RJ 03/17/2017

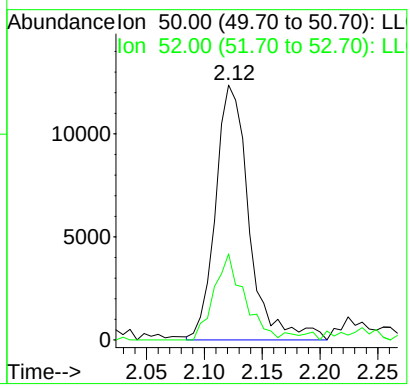
REASON # 2



#3
Chloromethan
Concen: 0.00 mg/kg
RT: 2.12 min Scan# 48
Delta R.T. -0.01 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 50 Resp: 24935

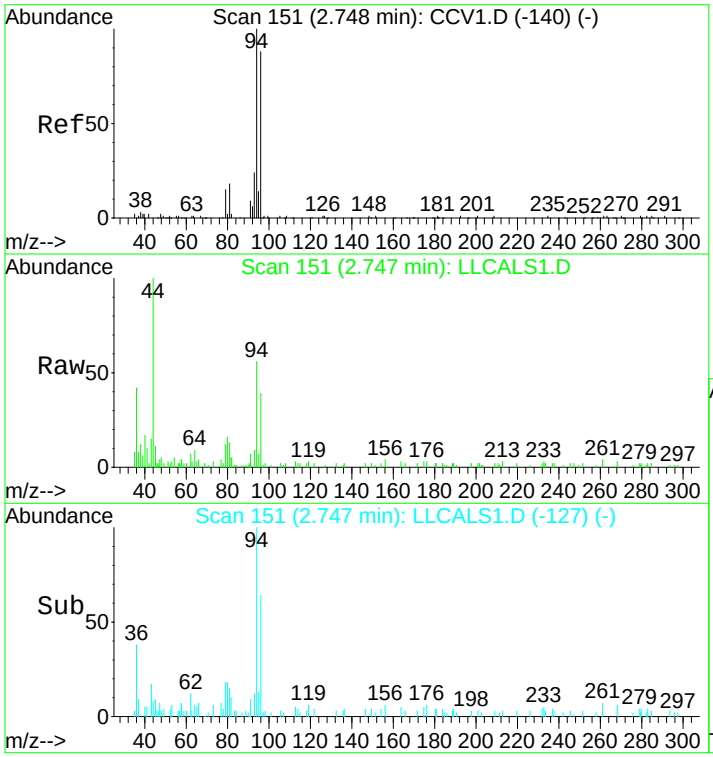
Ion	Ratio	Lower	Upper
50	100		
52	32.5	13.6	53.6



REASON # 2

Before Manual Integration

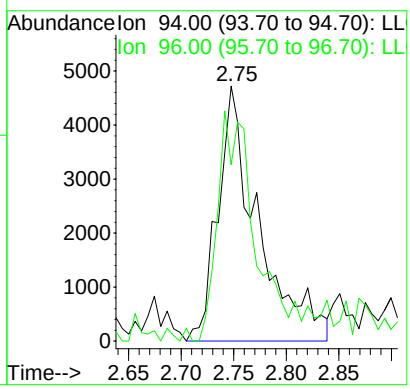
RJ 03/17/2017



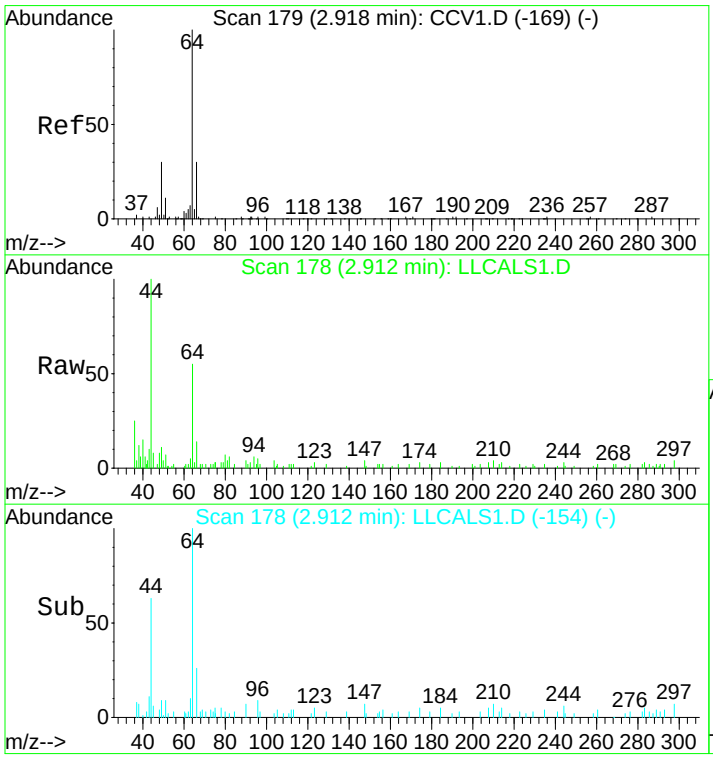
#5
Bromomethane
Concen: 0.00 mg/kg
RT: 2.75 min Scan# 151
Delta R.T. -0.01 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 94 Resp: 12586

Ion	Ratio	Lower	Upper
94	100		
96	93.0	76.9	116.9



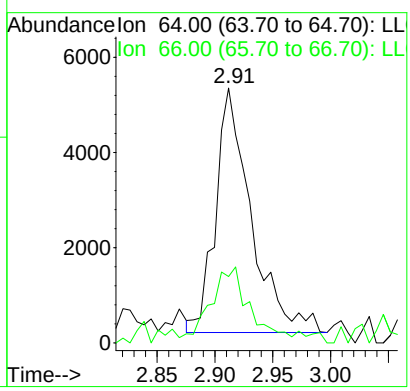
REASON # 2



#6
Chloroethane
Concen: 0.00 mg/kg
RT: 2.91 min Scan# 178
Delta R.T. -0.01 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 64 Resp: 10957

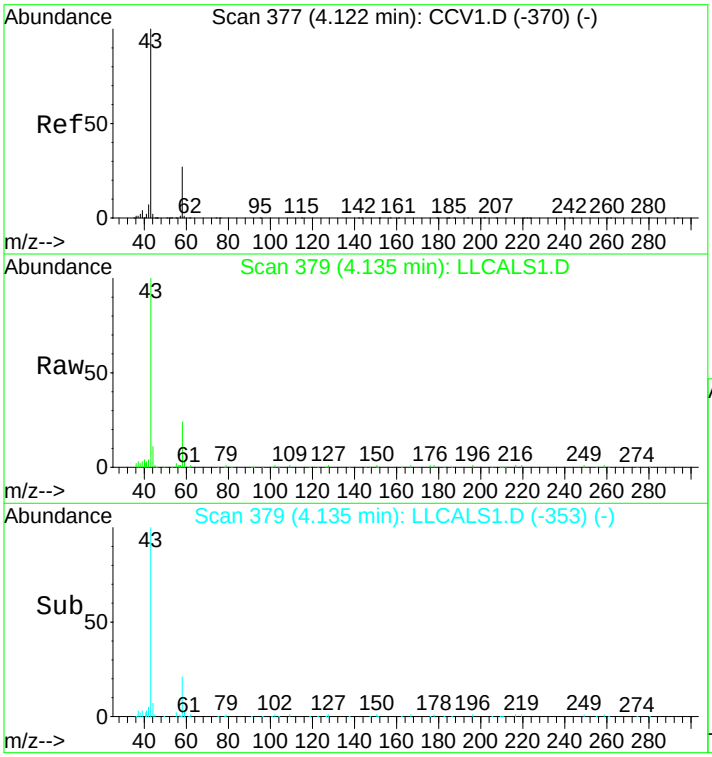
Ion	Ratio	Lower	Upper
64	100		
66	37.1	14.0	54.0



REASON # 2

Before Manual Integration

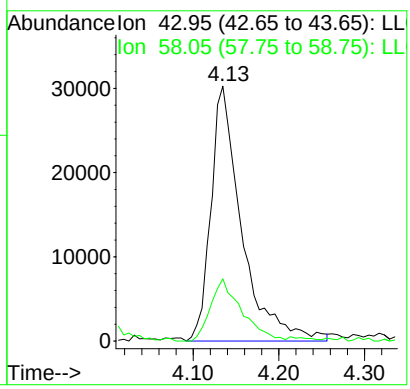
RJ 03/17/2017



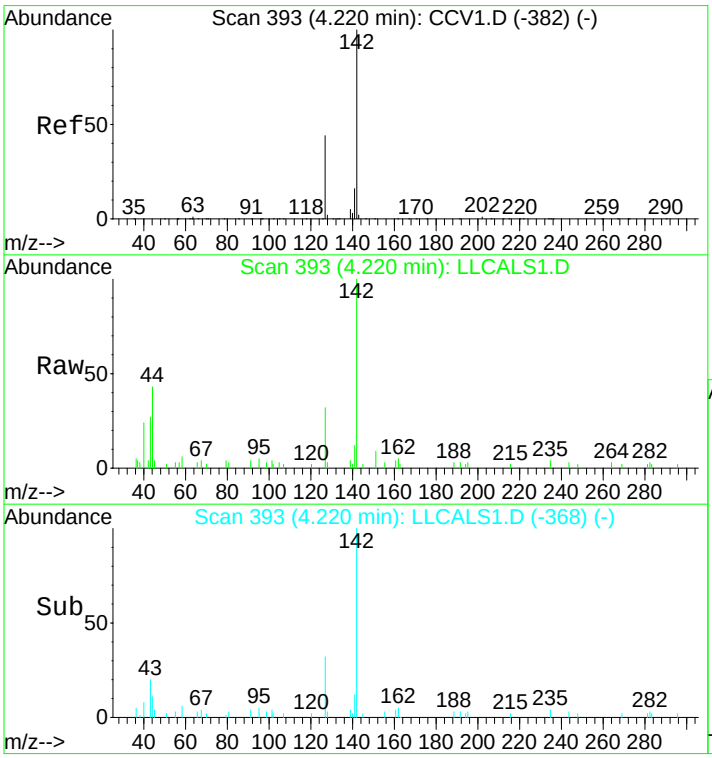
#15
Acetone
Concen: 0.02 mg/kg
RT: 4.13 min Scan# 379
Delta R.T. 0.01 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 43 Resp: 75640

Ion	Ratio	Lower	Upper
43	100		
58	24.5	5.8	45.8



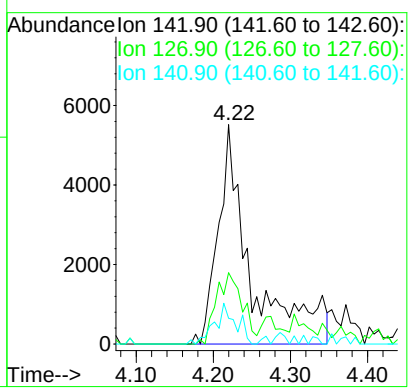
REASON # 2



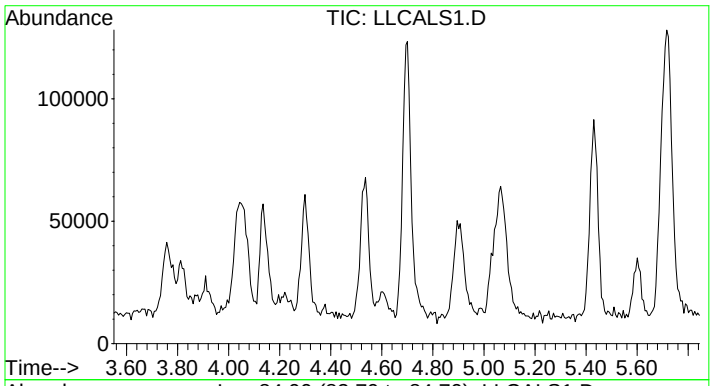
#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 393
Delta R.T. 0.00 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion:142 Resp: 16453

Ion	Ratio	Lower	Upper
142	100		
127	25.7	20.7	60.7
141	11.8	0.0	35.3



REASON # 2



#20
Methylchlorid
Concen: Below Cal
Expected RT: 4.70 min

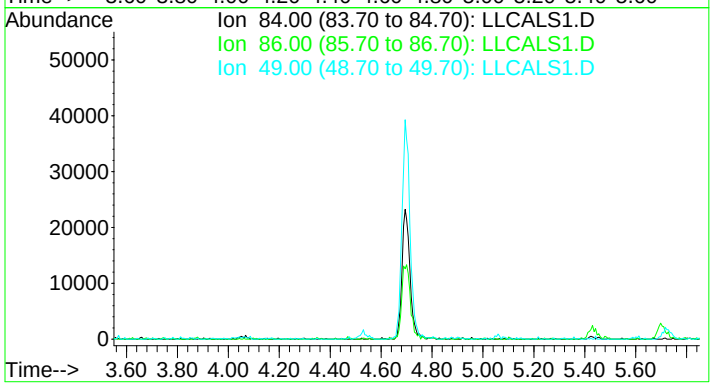
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 84

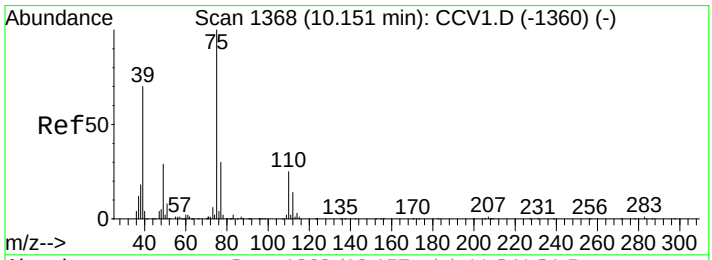
Sig	Exp Ratio
84	100
86	66.6
49	183.1

Before Manual Integration

RJ 03/17/2017



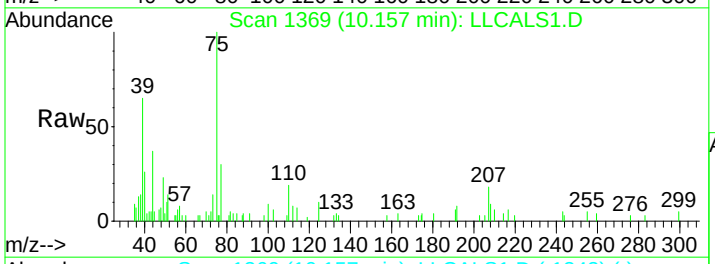
REASON # 1

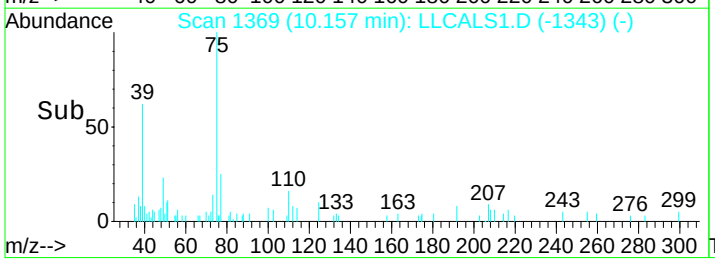


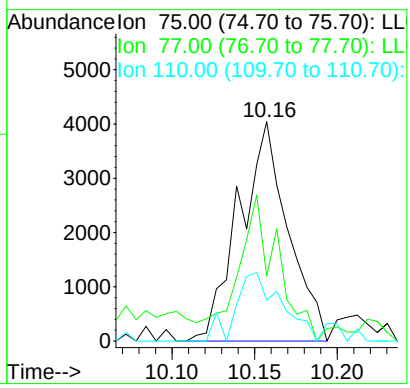
#62
t13Dicloprop
Concen: 0.00 mg/kg
RT: 10.16 min Scan# 1369
Delta R.T. 0.01 min
Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 75 Resp: 8305

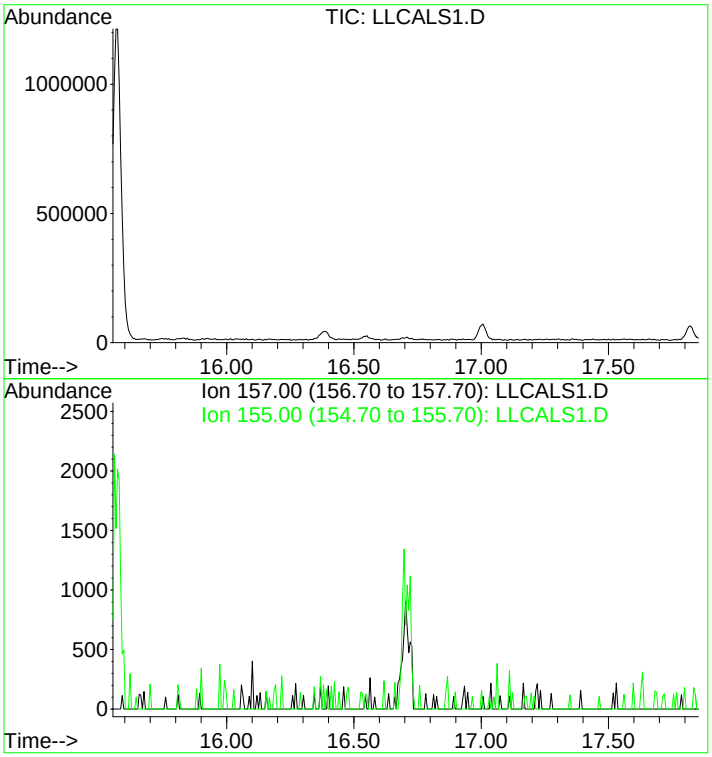
Ion	Ratio	Lower	Upper
75	100		
77	47.1	12.8	52.8
110	29.2	5.6	45.6







REASON # 2



#99
12dibromo3cl
Concen: N.D.
Expected RT: 16.70 min

Lab File: LLCALS1.D
Acq: 13 Mar 2017 17:07

Tgt Ion: 157

Sig	Exp Ratio
157	100
155	77.1

Before Manual Integration

RJ 03/17/2017

REASON # 1

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS2.D Vial: 6
Acq On : 13 Mar 2017 17:37 Operator: RLD-AGK
Sample : 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: Mar 14 08:30:10 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:44 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	1117765	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	906283	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	482051	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	278590	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	66449	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.79	98	1135369	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	405339	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	28803m	0.0022	mg/kg	100
3) Chloromethan	2.12	50	39281m	0.0021	mg/kg	98
4) VinylChlorid	2.27	62	31709	0.0022	mg/kg	90
5) Bromomethane	2.75	94	15526m	0.0018	mg/kg#	97
6) Chloroethane	2.91	64	17587m	0.0021	mg/kg	91
7) dichloroflmethane	3.23	67	43267	0.0022	mg/kg	98
8) Trichlorofma	3.29	101	31184	0.0020	mg/kg	99
9) Ethylether	3.74	59	20130	0.0019	mg/kg	94
10) dichlorotfluoroethan	3.77	67	25729	0.0022	mg/kg	96
11) propyleneoxide	3.82	58	36276	0.0195	mg/kg	96
12) Acrolein	3.91	56	28385	0.0102	mg/kg	83
13) 11dichlorthe	4.03	96	20421	0.0021	mg/kg	98
14) Trichlorotfluoroeth	4.06	101	41718	0.0043	mg/kg	97
15) Acetone	4.13	43	111312m	0.0203	mg/kg	98
16) Iodomethane	4.23	142	28996	0.0033	mg/kg	92
17) Carbon Dislf	4.30	76	127237	0.0043	mg/kg	99
18) allylchloride	4.54	41	99045	0.0045	mg/kg	95
19) methylacetate	4.59	74	5029	0.0021	mg/kg	86
20) Methylchlorid	4.70	84	92773m	0.0037	mg/kg#	99
21) Acrylonitrile	5.03	53	50912	0.0101	mg/kg	99
22) t12dichlorte	5.06	96	21571	0.0021	mg/kg	92
23) tbutylalcohol	4.89	59	110376	0.0962	mg/kg	90
24) MtBE	5.08	73	55449	0.0020	mg/kg	94
25) Hexane	5.43	57	73624	0.0043	mg/kg	95
26) 11dichlorota	5.59	63	48754	0.0022	mg/kg	98
27) Vinylacetate	5.70	43	324344	0.0159	mg/kg	100
28) chloroprene	5.73	53	82544	0.0041	mg/kg	99
29) Diisopether	5.72	45	103366	0.0020	mg/kg#	47
30) ETBE	6.17	59	59299	0.0019	mg/kg	99
31) 22dichloropr	6.33	77	26406	0.0020	mg/kg	97
32) c12dichlorte	6.34	96	27595	0.0021	mg/kg	99
33) 2Butanone	6.37	72	25827	0.0212	mg/kg	98
34) propionitrile	6.43	54	42910	0.0216	mg/kg	96
35) Ethylacetate	6.46	88	4735	0.0112	mg/kg#	86
36) methacrylonitrile	6.62	67	16783	0.0037	mg/kg	93
37) Bromochlorma	6.63	128	13552	0.0022	mg/kg	96
38) Tetrahydofur	6.70	42	99352	0.0209	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS2.D Vial: 6
Acq On : 13 Mar 2017 17:37 Operator: RLD-AGK
Sample : 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: Mar 14 08:30:10 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:44 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	44580	0.0022	mg/kg	99
40)	111trichlota	6.96	97	31481	0.0020	mg/kg	97
42)	Cyclohexane	7.04	56	44025	0.0020	mg/kg	95
43)	Carbtetraclo	7.17	119	21094	0.0019	mg/kg	98
44)	11dicloprope	7.17	110	12008	0.0022	mg/kg	91
46)	Benzene	7.43	78	94026	0.0021	mg/kg	98
47)	12dichlorota	7.44	62	38768	0.0022	mg/kg	99
48)	TAME	7.57	73	43181	0.0019	mg/kg	95
49)	trichloroete	8.24	95	26360	0.0022	mg/kg	88
50)	methylcyclohexane	8.48	83	32354	0.0020	mg/kg	96
51)	12dicloropra	8.51	63	29866	0.0022	mg/kg	87
52)	23dicl1propene	8.58	75	33054	0.0019	mg/kg	94
53)	Dibromometha	8.65	93	16170	0.0021	mg/kg	95
54)	methylmethacrylate	8.67	69	13867	0.0019	mg/kg	97
55)	14dioxane	8.69	88	13469	0.1060	mg/kg	98
56)	Bromodiclrma	8.86	83	29680	0.0020	mg/kg	95
57)	2Nitropropane	9.14	43	29360	0.0132	mg/kg	98
58)	c13dicloproe	9.44	75	23880	0.0017	mg/kg	99
59)	4Meth2Pentan	9.63	43	307556	0.0218	mg/kg	97
61)	Toluene	9.87	92	61334	0.0021	mg/kg	99
62)	t13Dicloprop	10.16	75	19668	0.0017	mg/kg	93
63)	ethylmethacrylate	10.29	69	47409	0.0037	mg/kg	98
64)	112Triclotha	10.39	83	18447	0.0021	mg/kg	94
65)	Tetrachlorte	10.61	166	24005	0.0019	mg/kg	88
66)	13Diclorpropa	10.62	76	34923	0.0020	mg/kg	98
68)	2Hexanone	10.73	43	206432	0.0199	mg/kg	98
69)	Clorodibrmta	10.91	129	21868	0.0019	mg/kg	96
70)	12Dibrometha	11.08	107	19168	0.0018	mg/kg	95
71)	Chlorobenzen	11.75	112	69431	0.0021	mg/kg	94
72)	1Clhexane	11.71	91	29080	0.0020	mg/kg#	78
73)	1112Tetclota	11.87	131	19328	0.0018	mg/kg	87
74)	Ethylbenzene	11.90	91	105380	0.0020	mg/kg	95
75)	m p-Xylene	12.07	106	81283	0.0039	mg/kg	91
76)	o-Xylene	12.62	106	39316	0.0019	mg/kg	99
77)	Styrene	12.63	104	63860	0.0018	mg/kg	96
78)	Bromoform	12.88	173	12846	0.0017	mg/kg	97
79)	Isopropylben	13.14	105	103392	0.0020	mg/kg	100
81)	cyclohexanone	13.25	55	12461	0.0329	mg/kg#	89
83)	Bromobenzene	13.56	156	32338	0.0021	mg/kg	98
84)	1122Tetrclta	13.55	83	28603	0.0021	mg/kg	99
85)	123Triclproa	13.62	75	28088	0.0021	mg/kg	95
86)	14dichloro2butene	13.64	53	3331	0.0013	mg/kg	88
87)	n-Propylbenz	13.73	91	128979	0.0021	mg/kg	100
88)	2chlorotolue	13.84	91	78165	0.0022	mg/kg	98
89)	4chlorotolue	14.00	91	89877	0.0021	mg/kg	98
90)	135Trimebenz	13.98	105	87223	0.0020	mg/kg	100
91)	tbutylbenzen	14.45	119	72177	0.0019	mg/kg	95
92)	124Trimetben	14.53	105	91302	0.0021	mg/kg	97
93)	sbutylbenzen	14.77	105	110794	0.0020	mg/kg	96
94)	13Diclorbenz	14.92	146	58637	0.0021	mg/kg	100
95)	pIsopropylto	14.99	119	94054	0.0020	mg/kg	96
96)	14dichlorobe	15.05	146	60147	0.0021	mg/kg	91
97)	12dichlorobe	15.60	146	58350	0.0021	mg/kg	94
98)	nButylbenzen	15.58	91	90258	0.0021	mg/kg	98
99)	12dibromo3cl	16.70	157	4127	0.0016	mg/kg	86
100)	135Trichlorobenzene	17.01	180	42041	0.0021	mg/kg	96
101)	124Trichlobe	17.82	180	37843	0.0020	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS2.D Vial: 6
Acq On : 13 Mar 2017 17:37 Operator: RLD-AGK
Sample : 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: Mar 14 08:30:10 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:44 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	21158	0.0020 mg/kg	95
103) Naphthalene	18.13	128	76723	0.0019 mg/kg	96
104) 123Trichlben	18.44	180	37130	0.0021 mg/kg	96

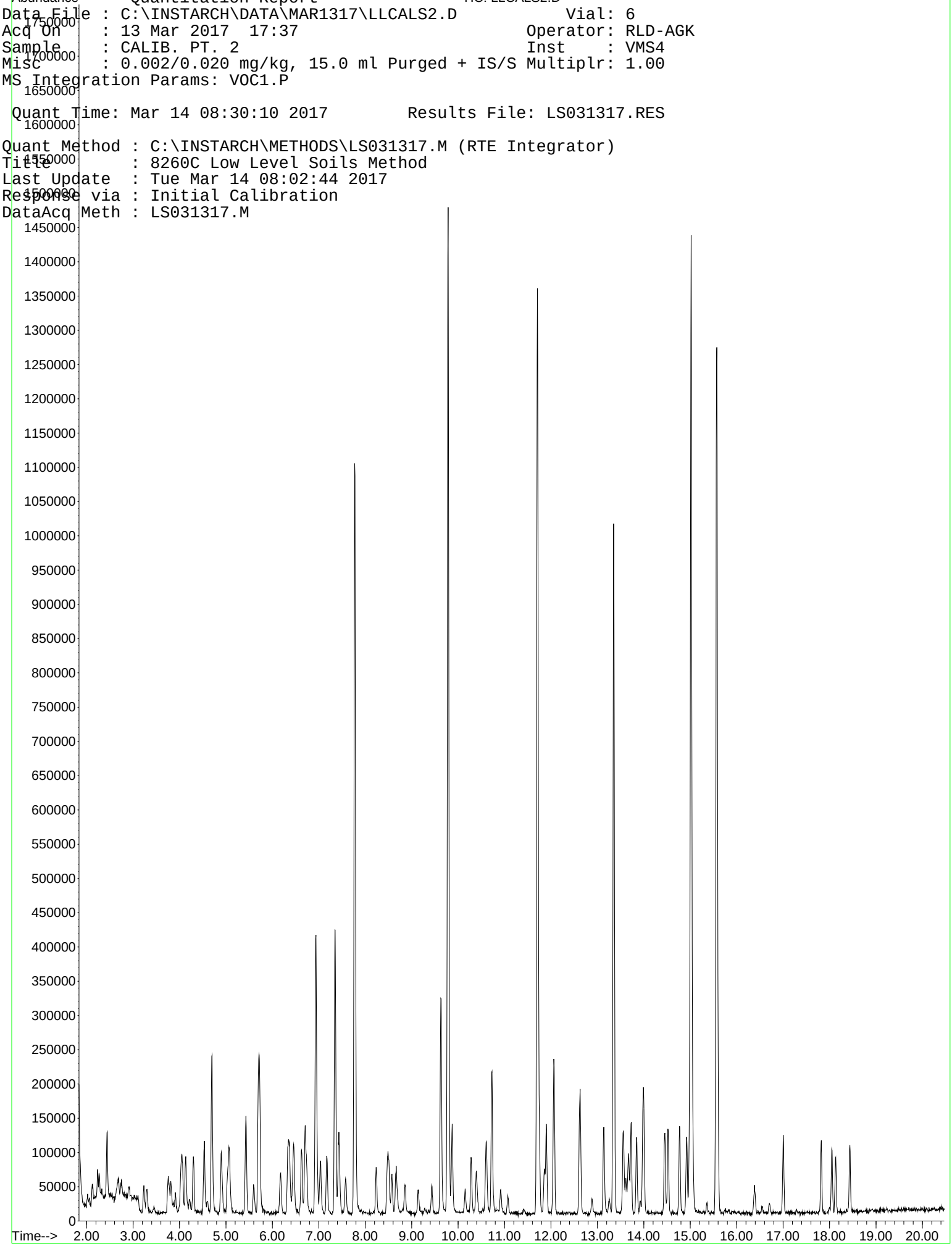
(#) = qualifier out of range (m) = manual integration

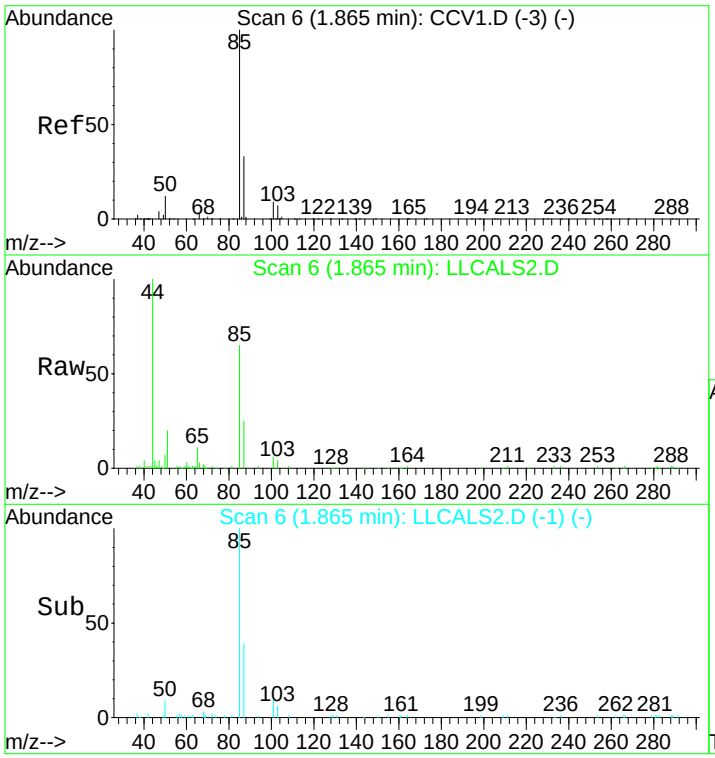
Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS2.D Vial: 6
Acq On : 13 Mar 2017 17:37 Operator: RLD-AGK
Sample : 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: Mar 14 08:30:10 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:44 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

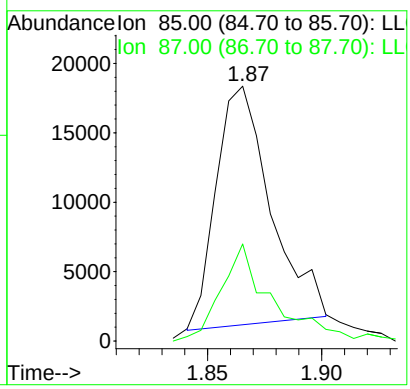




#2
Dichlorodi
Concen: 0.00 mg/kg m
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

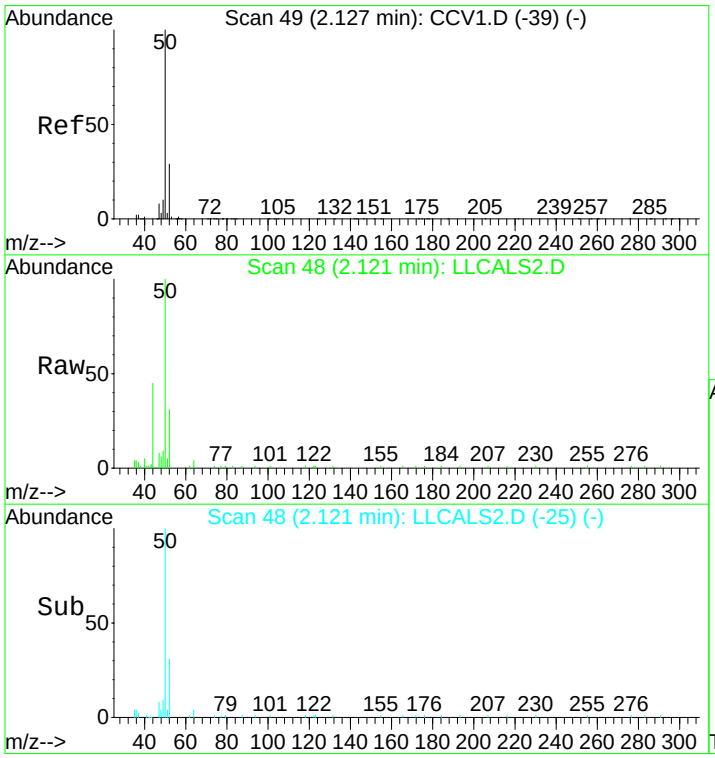
Tgt Ion: 85 Resp: 28803

Ion	Ratio	Lower	Upper
85	100		
87	36.9	11.7	51.7



After Manual Integration

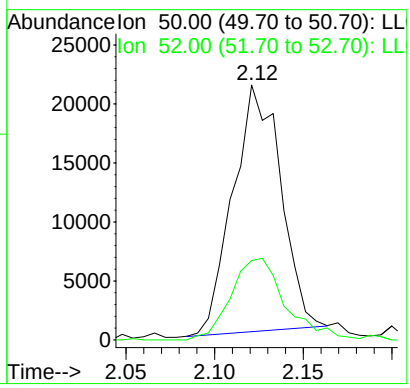
RJ 03/17/2017



#3
Chloromethan
Concen: 0.00 mg/kg m
RT: 2.12 min Scan# 48
Delta R.T. -0.01 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

Tgt Ion: 50 Resp: 39281

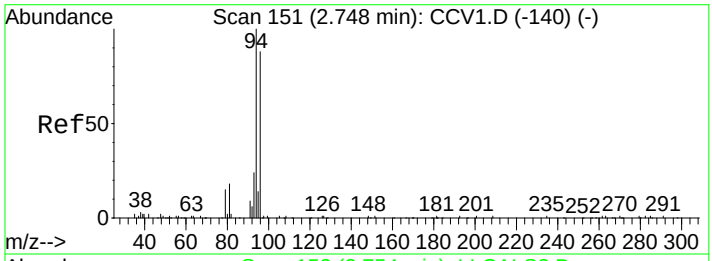
Ion	Ratio	Lower	Upper
50	100		
52	37.6	13.6	53.6

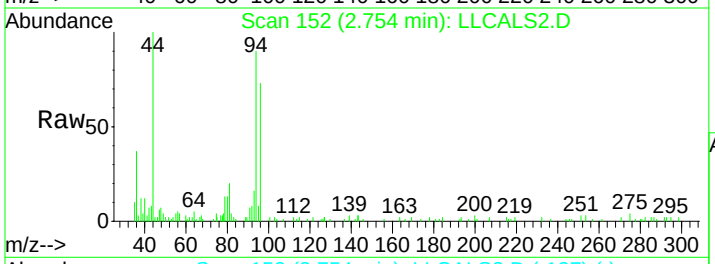


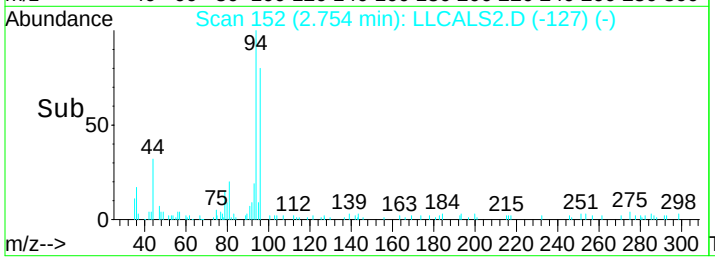
AgK 03/22/17

After Manual Integration

RJ 03/17/2017



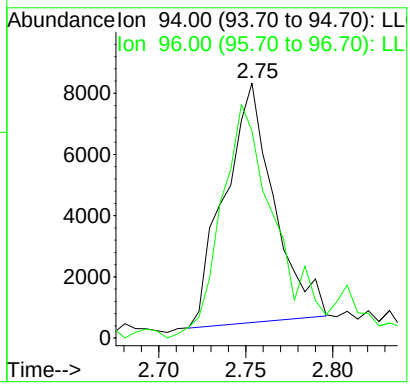


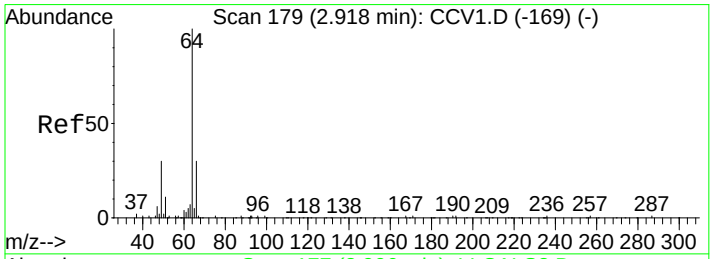


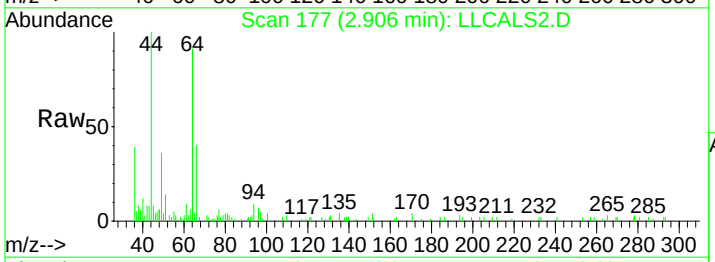
#5
Bromomethane
Concen: 0.00 mg/kg m
RT: 2.75 min Scan# 152
Delta R.T. 0.00 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

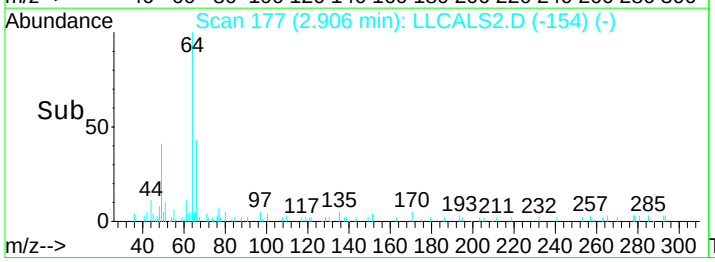
Tgt Ion: 94 Resp: 15526

Ion	Ratio	Lower	Upper
94	100		
96	119.9	77.2	117.2#





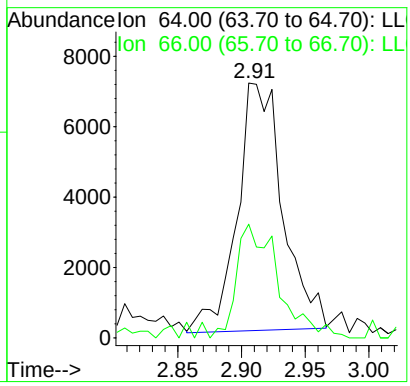




#6
Chloroethane
Concen: 0.00 mg/kg m
RT: 2.91 min Scan# 177
Delta R.T. -0.01 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

Tgt Ion: 64 Resp: 17587

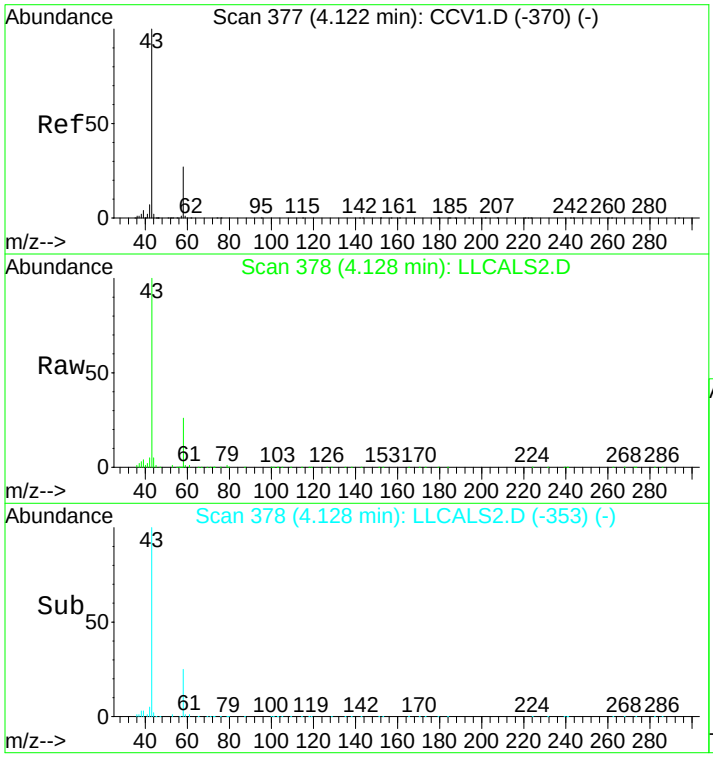
Ion	Ratio	Lower	Upper
64	100		
66	42.0	14.0	54.0



AgK 03/22/17

After Manual Integration

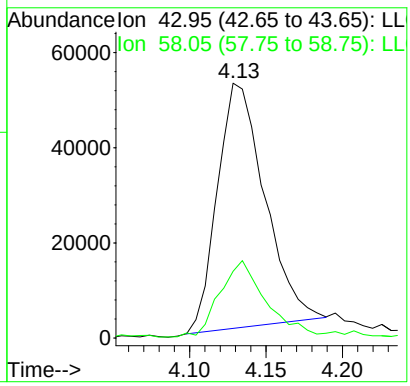
RJ 03/17/2017

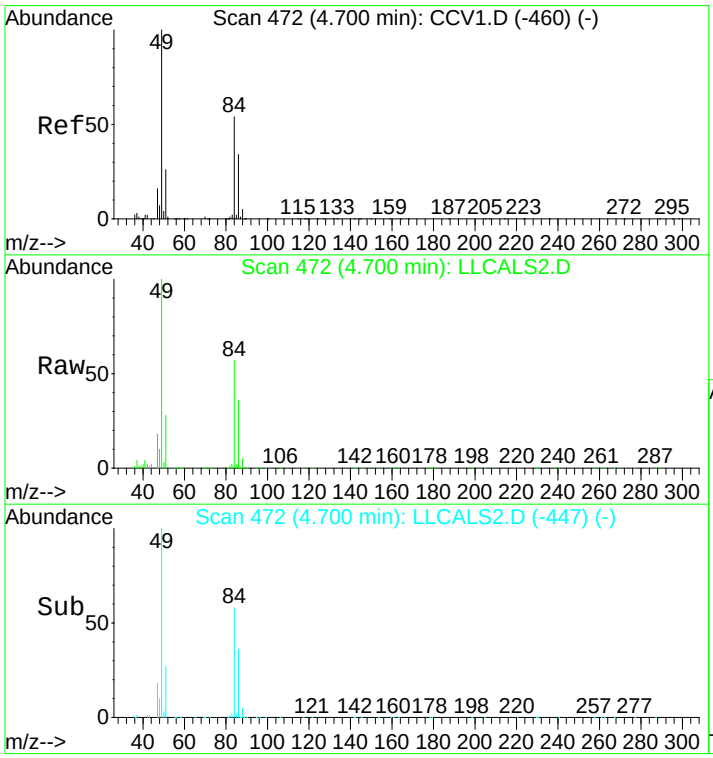


#15
Acetone
Concen: 0.02 mg/kg m
RT: 4.13 min Scan# 378
Delta R.T. 0.00 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

Tgt Ion: 43 Resp: 111312

Ion	Ratio	Lower	Upper
43	100		
58	32.0	5.8	45.8

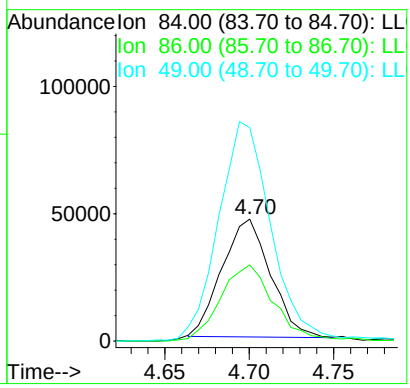




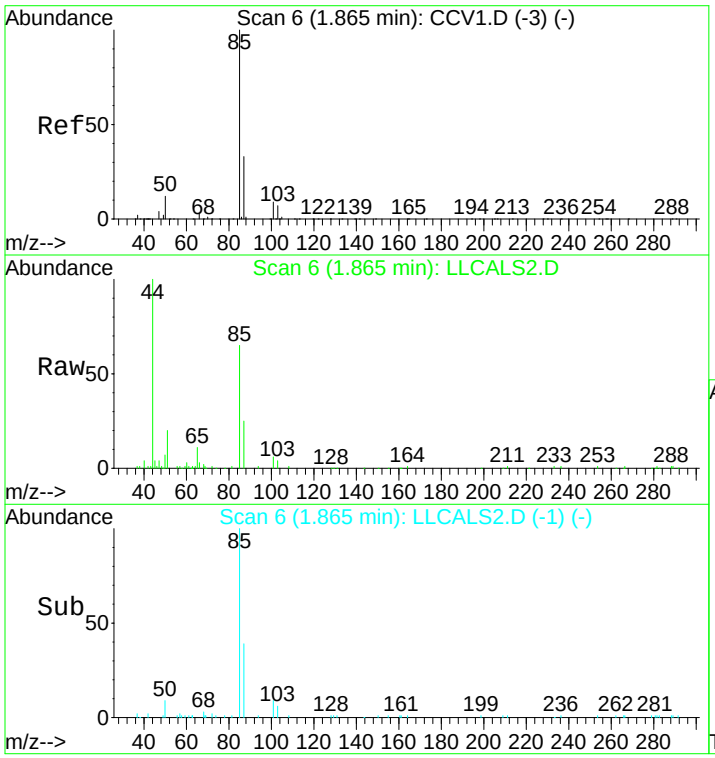
#20
Methylchlorid
Concen: 0.00 mg/kg m
RT: 4.70 min Scan# 472
Delta R.T. 0.00 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

Tgt Ion: 84 Resp: 92773

Ion	Ratio	Lower	Upper
84	100		
86	71.8	46.6	86.6
49	204.6	163.1	203.1#



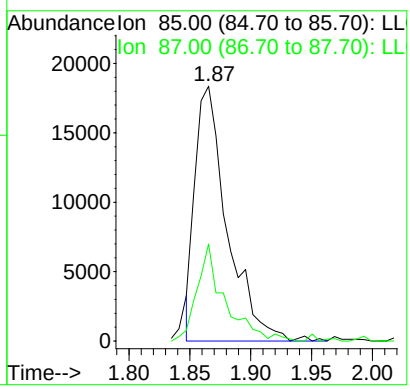
AgK 03/22/17



#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

Tgt Ion: 85 Resp: 33827

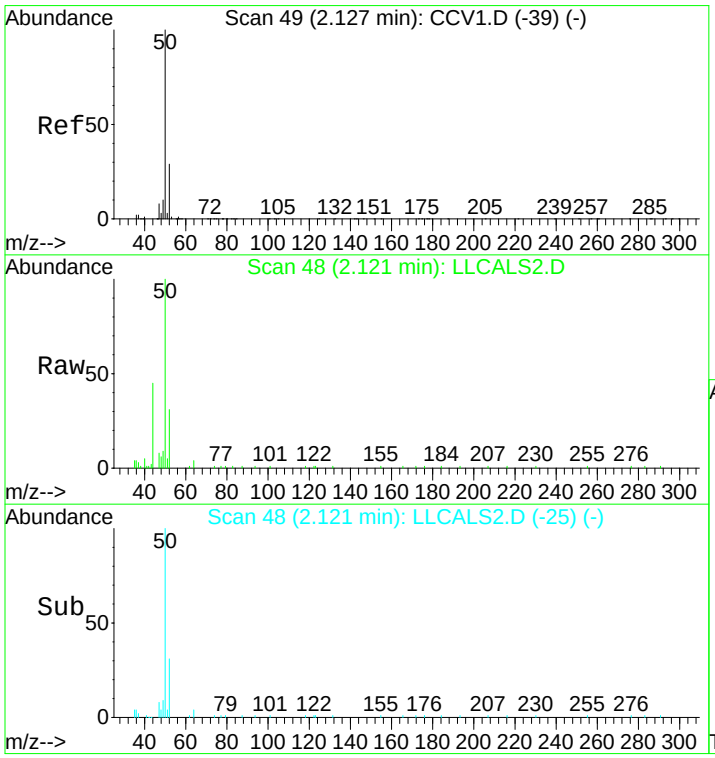
Ion	Ratio	Lower	Upper
85	100		
87	31.4	11.6	51.6



Before Manual Integration

RJ 03/17/2017

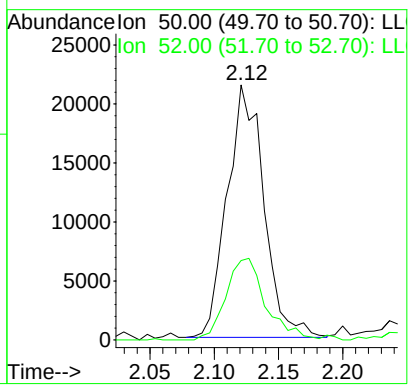
REASON # 2



#3
Chloromethan
Concen: 0.00 mg/kg
RT: 2.12 min Scan# 48
Delta R.T. -0.01 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

Tgt Ion: 50 Resp: 42479

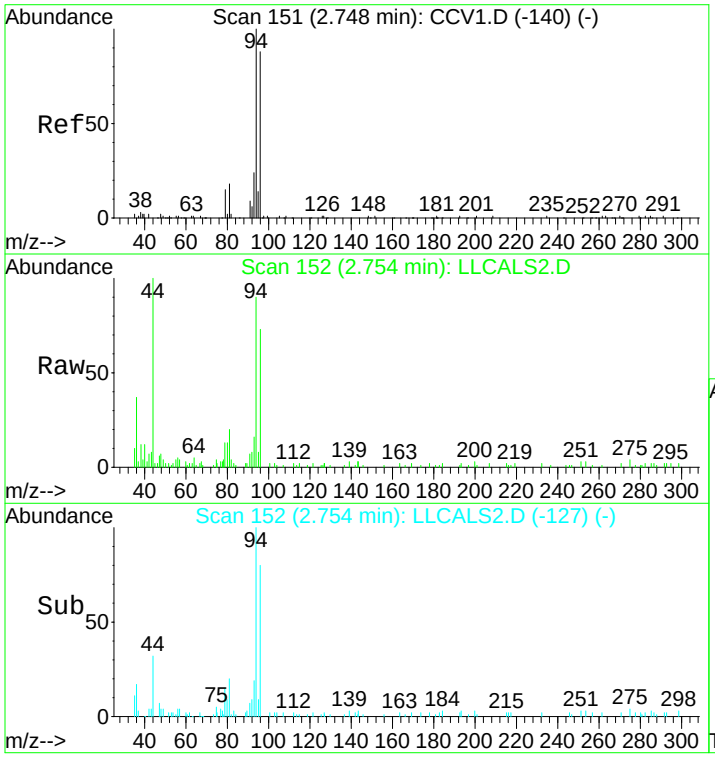
Ion	Ratio	Lower	Upper
50	100		
52	34.8	13.6	53.6



REASON # 2

Before Manual Integration

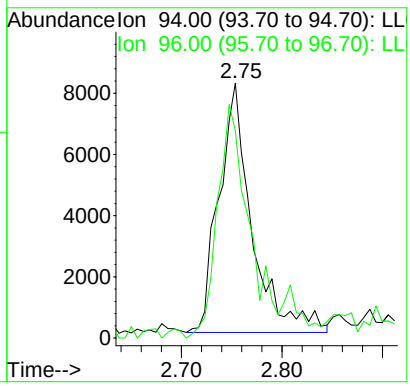
RJ 03/17/2017



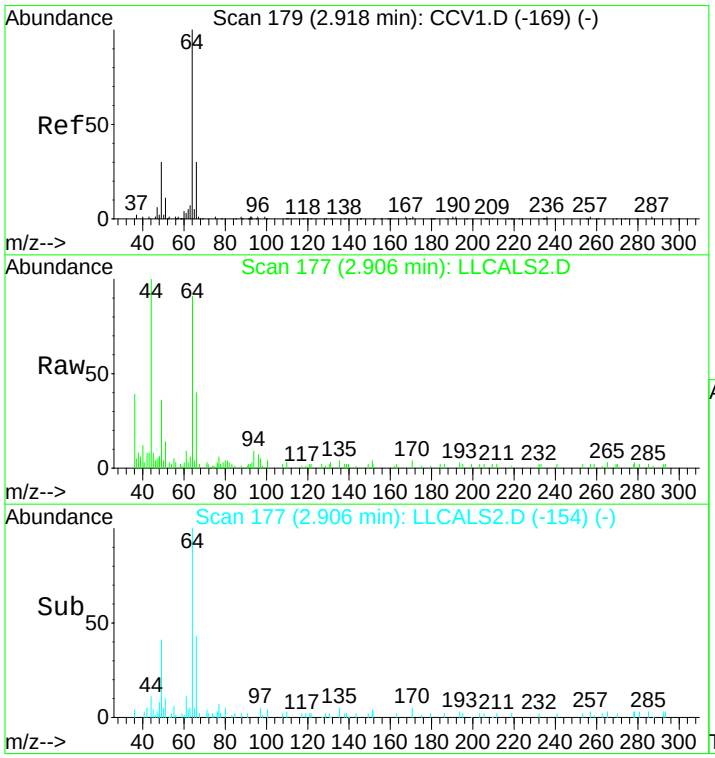
#5
Bromomethane
Concen: 0.00 mg/kg
RT: 2.75 min Scan# 152
Delta R.T. 0.00 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

Tgt Ion: 94 Resp: 18642

Ion	Ratio	Lower	Upper
94	100		
96	99.8	76.9	116.9



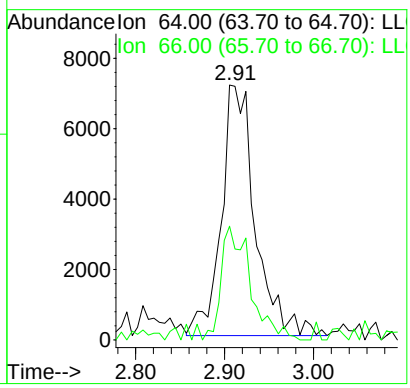
REASON # 2



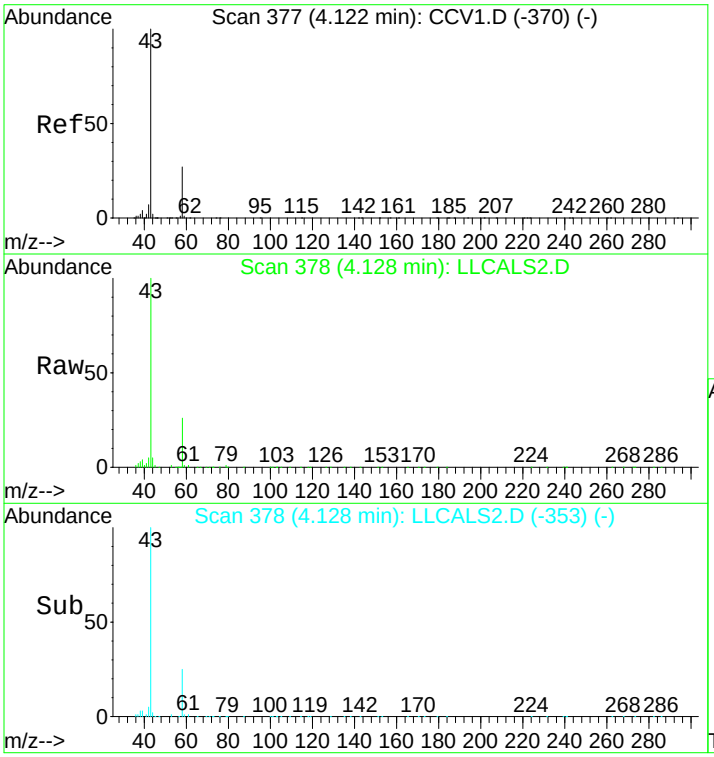
#6
Chloroethane
Concen: 0.00 mg/kg
RT: 2.91 min Scan# 177
Delta R.T. -0.01 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

Tgt Ion: 64 Resp: 18896

Ion	Ratio	Lower	Upper
64	100		
66	39.1	14.0	54.0



REASON # 2



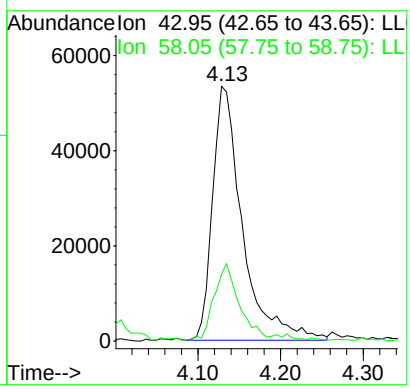
#15
Acetone
Concen: 0.03 mg/kg
RT: 4.13 min Scan# 378
Delta R.T. 0.00 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

Tgt Ion: 43 Resp: 133928

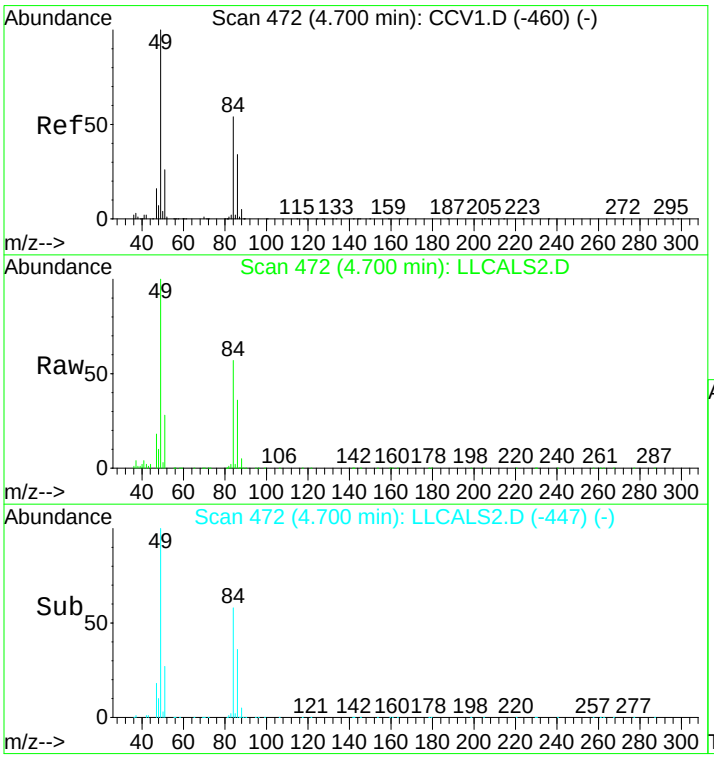
Ion	Ratio	Lower	Upper
43	100		
58	26.6	5.8	45.8

Before Manual Integration

RJ 03/17/2017



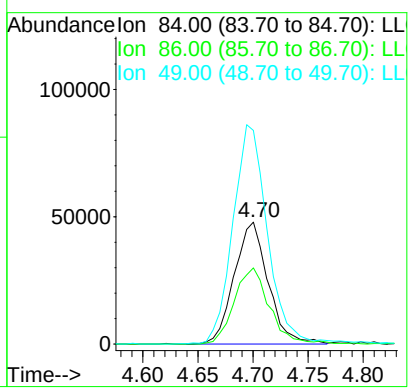
REASON # 2



#20
Methylchlorid
Concen: 0.00 mg/kg
RT: 4.70 min Scan# 472
Delta R.T. 0.00 min
Lab File: LLCALS2.D
Acq: 13 Mar 2017 17:37

Tgt Ion: 84 Resp: 102955

Ion	Ratio	Lower	Upper
84	100		
86	64.7	46.6	86.6
49	184.4	163.1	203.1



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS3.D Vial: 7
Acq On : 13 Mar 2017 18:05 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:06 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:00:39 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	1171130	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	923218	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	506823	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.94	113	301395	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.35	102	66880	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %		
60) SURRd8Tolule	9.79	98	1154595	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.35	95	423371	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	1.87	85	69540	0.0041 mg/kg	94
3) Chloromethan	2.13	50	97460	0.0043 mg/kg	98
4) VinylChlorid	2.27	62	77728	0.0045 mg/kg	89
5) Bromomethane	2.75	94	44134	0.0043 mg/kg	99
6) Chloroethane	2.91	64	45234	0.0045 mg/kg	98
7) dichloroflmethane	3.24	67	103189	0.0046 mg/kg	98
8) Trichlorofma	3.30	101	79178	0.0046 mg/kg	95
9) Ethylether	3.75	59	59197	0.0055 mg/kg	93
10) dichlorotfluoroethan	3.77	67	60124	0.0044 mg/kg	97
11) propyleneoxide	3.82	58	97069	0.0516 mg/kg	93
12) Acrolein	3.91	56	73092	0.0250 mg/kg	98
13) 11dichlorthe	4.04	96	45301	0.0040 mg/kg#	87
14) Trichlorotfluoroeth	4.06	101	103757	0.0095 mg/kg	98
15) Acetone	4.13	43	307016	0.0443 mg/kg	99
16) Iodomethane	4.23	142	76719	0.0095 mg/kg	92
17) Carbon Dislf	4.30	76	304257	0.0090 mg/kg	99
18) allylchloride	4.53	41	229292	0.0089 mg/kg	99
19) methylacetate	4.60	74	13459	0.0054 mg/kg	95
20) Methylchlorid	4.70	84	143924	0.0034 mg/kg	98
21) Acrylonitrile	5.03	53	133586	0.0249 mg/kg	99
22) t12dichlorte	5.07	96	54871	0.0048 mg/kg	99
23) tbutylalcohol	4.90	59	287277	0.2555 mg/kg	98
24) MtBE	5.08	73	144330	0.0050 mg/kg	98
25) Hexane	5.43	57	180466	0.0091 mg/kg	97
26) 11dichlorota	5.61	63	117536	0.0047 mg/kg	100
27) Vinylacetate	5.69	43	1073996	0.0588 mg/kg	100
28) chloroprene	5.72	53	218011	0.0097 mg/kg	98
29) Diisopether	5.72	45	277101	0.0051 mg/kg#	74
30) ETBE	6.18	59	158340	0.0050 mg/kg	97
31) 22dichloropr	6.34	77	64341	0.0044 mg/kg	96
32) c12dichlorte	6.34	96	71906	0.0049 mg/kg	93
33) 2Butanone	6.36	72	64543	0.0519 mg/kg	99
34) propionitrile	6.43	54	105125	0.0489 mg/kg	98
35) Ethylacetate	6.46	88	11573	0.0260 mg/kg#	90
36) methacrylonitrile	6.63	67	48133	0.0105 mg/kg	100
37) Bromochlorma	6.63	128	31519	0.0045 mg/kg#	90
38) Tetrahydofur	6.71	42	252366	0.0494 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS3.D Vial: 7
Acq On : 13 Mar 2017 18:05 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:06 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:00:39 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.74	83	107413	0.0048 mg/kg	99
40) 111trichlota	6.96	97	83165	0.0049 mg/kg	95
42) Cyclohexane	7.03	56	105757	0.0044 mg/kg	95
43) Carbtetraclo	7.18	119	52095	0.0047 mg/kg	98
44) 11dicloprope	7.17	110	27975	0.0046 mg/kg	98
46) Benzene	7.43	78	228129	0.0045 mg/kg	97
47) 12dichlorota	7.44	62	91772	0.0048 mg/kg	97
48) TAME	7.58	73	111670	0.0051 mg/kg	95
49) trichloroete	8.23	95	62362	0.0046 mg/kg	96
50) methylcyclohexane	8.48	83	82007	0.0047 mg/kg	98
51) 12dicloropra	8.51	63	70956	0.0048 mg/kg	92
52) 23dicl1propene	8.57	75	87322	0.0049 mg/kg	97
53) Dibromometha	8.65	93	40762	0.0049 mg/kg	98
54) methylmethacrylate	8.67	69	35950	0.0052 mg/kg	94
55) 14dioxane	8.70	88	31703	0.2326 mg/kg	95
56) Bromodiclrma	8.86	83	73156	0.0048 mg/kg	99
57) 2Nitropropane	9.14	43	72985	0.0445 mg/kg	99
58) c13dicloproe	9.43	75	70536	0.0053 mg/kg	88
59) 4Meth2Pentan	9.63	43	781674	0.0507 mg/kg	100
61) Toluene	9.87	92	145890	0.0044 mg/kg	95
62) t13Dicloprop	10.16	75	54939	0.0054 mg/kg	98
63) ethylmethacrylate	10.28	69	128200	0.0104 mg/kg	99
64) 112Triclotha	10.38	83	45360	0.0049 mg/kg	95
65) Tetrachlorte	10.60	166	64785	0.0045 mg/kg	96
66) 13Diclorpropa	10.61	76	90481	0.0049 mg/kg	100
68) 2Hexanone	10.72	43	542352	0.0515 mg/kg	99
69) Clorodibrmta	10.92	129	54568	0.0050 mg/kg	98
70) 12Dibrometha	11.07	107	53209	0.0051 mg/kg	97
71) Chlorobenzen	11.75	112	170294	0.0047 mg/kg	97
72) 1Clhexane	11.71	91	71985	0.0046 mg/kg	93
73) 1112Tetclota	11.86	131	49838	0.0047 mg/kg	95
74) Ethylbenzene	11.90	91	274043	0.0048 mg/kg	100
75) m p-Xylene	12.06	106	211640	0.0096 mg/kg	99
76) o-Xylene	12.62	106	102957	0.0049 mg/kg	99
77) Styrene	12.63	104	175004	0.0050 mg/kg	98
78) Bromoform	12.88	173	35507	0.0050 mg/kg	97
79) Isopropylben	13.14	105	254312	0.0048 mg/kg	99
81) cyclohexanone	13.25	55	34989	0.1007 mg/kg	99
83) Bromobenzene	13.56	156	78103	0.0046 mg/kg	96
84) 1122Tetrclta	13.55	83	68576	0.0049 mg/kg	96
85) 123Triclproa	13.61	75	63496	0.0048 mg/kg	97
86) 14dichloro2butene	13.63	53	11215	0.0052 mg/kg	88
87) n-Propylbenz	13.72	91	314315	0.0046 mg/kg	96
88) 2chlorotolue	13.84	91	187884	0.0047 mg/kg	97
89) 4chlorotolue	14.00	91	224789	0.0049 mg/kg	99
90) 135Trimebenz	13.98	105	222251	0.0048 mg/kg	98
91) tbutylbenzen	14.45	119	190458	0.0048 mg/kg	99
92) 124Trimetben	14.53	105	228456	0.0047 mg/kg	100
93) sbutylbenzen	14.77	105	288567	0.0048 mg/kg	97
94) 13Diclorbenz	14.92	146	153153	0.0050 mg/kg	94
95) pIsopropylto	14.99	119	242011	0.0047 mg/kg	98
96) 14dichlorobe	15.05	146	152875	0.0048 mg/kg	97
97) 12dichlorobe	15.60	146	142901	0.0046 mg/kg	96
98) nButylbenzen	15.58	91	226079	0.0047 mg/kg	99
99) 12dibromo3cl	16.70	157	13384	0.0059 mg/kg	90
100) 135Trichlorobenzene	17.01	180	105881	0.0048 mg/kg	99
101) 124Trichlobe	17.82	180	95113	0.0047 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS3.D Vial: 7
Acq On : 13 Mar 2017 18:05 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:06 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:00:39 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	18.05	225	54648	0.0045	mg/kg	96
103)	Naphthalene	18.13	128	206681	0.0049	mg/kg	98
104)	123Trichlben	18.44	180	92531	0.0048	mg/kg	99

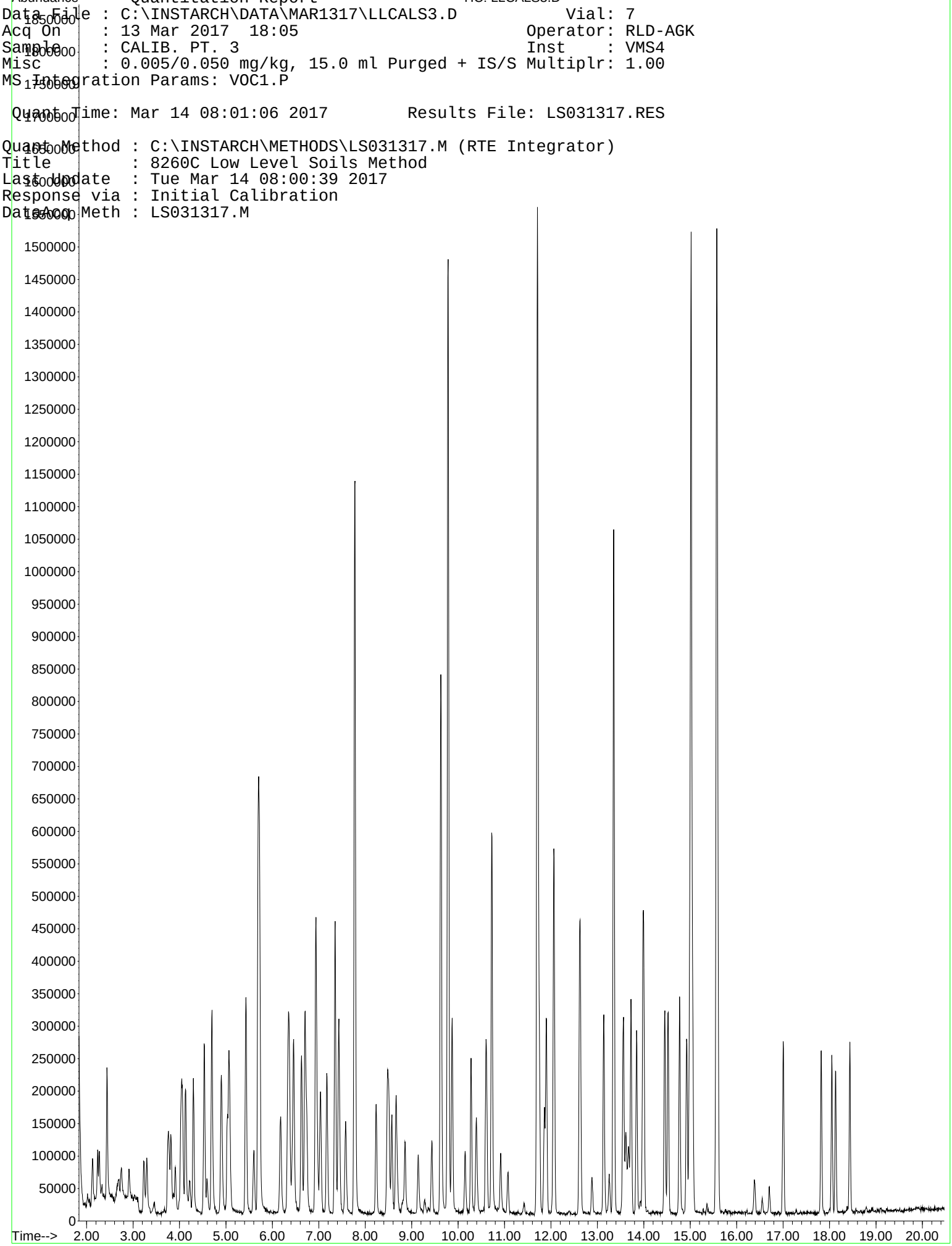
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALS3.D

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS3.D Vial: 7
Acq On : 13 Mar 2017 18:05 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:06 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:00:39 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS4.D Vial: 8
Acq On : 13 Mar 2017 18:34 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:25 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:15 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	1123993	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	882719	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	485330	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	280423	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	67201	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1116911	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	394258	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	130943	0.0084	mg/kg	100
3) Chloromethan	2.13	50	183610	0.0087	mg/kg	100
4) VinylChlorid	2.27	62	149765	0.0093	mg/kg	100
5) Bromomethane	2.75	94	72107	0.0076	mg/kg	100
6) Chloroethane	2.92	64	80827	0.0086	mg/kg	100
7) dichloroflmethane	3.23	67	198018	0.0094	mg/kg	100
8) Trichlorofma	3.29	101	158458	0.0097	mg/kg	100
9) Ethylether	3.75	59	102647	0.0096	mg/kg	100
10) dichlorotfluoroethan	3.78	67	122093	0.0096	mg/kg	100
11) propyleneoxide	3.82	58	174609	0.0959	mg/kg	100
12) Acrolein	3.91	56	133502	0.0476	mg/kg	99
13) 11dichlorthe	4.03	96	96961	0.0095	mg/kg	100
14) Trichlorotfluoroeth	4.06	101	198192	0.0191	mg/kg	100
15) Acetone	4.13	43	541643	0.0838	mg/kg	100
16) Iodomethane	4.22	142	147518	0.0193	mg/kg	100
17) Carbon Dislf	4.30	76	588799	0.0187	mg/kg	100
18) allylchloride	4.53	41	424887	0.0177	mg/kg	100
19) methylacetate	4.60	74	21488	0.0088	mg/kg	100
20) Methylchlorid	4.70	84	191186	0.0051	mg/kg	100
21) Acrylonitrile	5.03	53	252938	0.0491	mg/kg	100
22) t12dichlorte	5.07	96	104191	0.0095	mg/kg	100
23) tbutylalcohol	4.91	59	543972	0.5013	mg/kg	100
24) MtBE	5.08	73	277974	0.0100	mg/kg	100
25) Hexane	5.43	57	351500	0.0188	mg/kg	100
26) 11dichlorota	5.60	63	218956	0.0093	mg/kg	100
27) Vinylacetate	5.69	43	2383998	0.1303	mg/kg	100
28) chloroprene	5.72	53	418455	0.0196	mg/kg	100
29) Diisopether	5.72	45	521768	0.0100	mg/kg	100
30) ETBE	6.18	59	310345	0.0103	mg/kg	100
31) 22dichloropr	6.33	77	130812	0.0097	mg/kg	100
32) c12dichlorte	6.34	96	131729	0.0093	mg/kg	100
33) 2Butanone	6.36	72	119073	0.0989	mg/kg	100
34) propionitrile	6.43	54	194176	0.0946	mg/kg	100
35) Ethylacetate	6.46	88	20686	0.0480	mg/kg	100
36) methacrylonitrile	6.62	67	90243	0.0202	mg/kg	100
37) Bromochlorma	6.63	128	61783	0.0094	mg/kg	100
38) Tetrahydofur	6.70	42	469105	0.0960	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS4.D Vial: 8
Acq On : 13 Mar 2017 18:34 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:25 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:15 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	203154	0.0095	mg/kg	100
40)	111trichlota	6.97	97	156689	0.0097	mg/kg	100
42)	Cyclohexane	7.04	56	214407	0.0095	mg/kg	100
43)	Carbtetraclo	7.18	119	111854	0.0107	mg/kg	100
44)	11dicloprope	7.18	110	55416	0.0096	mg/kg	100
46)	Benzene	7.43	78	452889	0.0095	mg/kg	100
47)	12dichlorota	7.44	62	174128	0.0096	mg/kg	100
48)	TAME	7.58	73	222711	0.0106	mg/kg	100
49)	trichloroete	8.24	95	115461	0.0091	mg/kg	100
50)	methylcyclohexane	8.48	83	165425	0.0100	mg/kg	100
51)	12dicloropra	8.51	63	131899	0.0093	mg/kg	100
52)	23dicl1propene	8.58	75	171884	0.0100	mg/kg	100
53)	Dibromometha	8.66	93	74701	0.0093	mg/kg	100
54)	methylmethacrylate	8.67	69	72024	0.0107	mg/kg	100
55)	14dioxane	8.69	88	59607	0.4637	mg/kg	100
56)	Bromodiclrma	8.86	83	145968	0.0101	mg/kg	100
57)	2Nitropropane	9.14	43	174183	0.1138	mg/kg	100
58)	c13dicloproe	9.43	75	139734	0.0108	mg/kg	100
59)	4Meth2Pentan	9.63	43	1478301	0.0995	mg/kg	100
61)	Toluene	9.87	92	279235	0.0091	mg/kg	100
62)	t13Dicloprop	10.15	75	108029	0.0109	mg/kg	100
63)	ethylmethacrylate	10.28	69	259321	0.0217	mg/kg	100
64)	112Triclotha	10.39	83	84949	0.0096	mg/kg	100
65)	Tetrachlorte	10.60	166	129839	0.0097	mg/kg	100
66)	13Diclorpropa	10.61	76	173322	0.0099	mg/kg	100
68)	2Hexanone	10.72	43	1035367	0.1021	mg/kg	100
69)	Clorodibrmta	10.92	129	107386	0.0103	mg/kg	100
70)	12Dibrometha	11.08	107	103019	0.0103	mg/kg	100
71)	Chlorobenzen	11.75	112	321699	0.0094	mg/kg	100
72)	1Clhexane	11.71	91	139930	0.0095	mg/kg	100
73)	1112Tetclota	11.85	131	100544	0.0101	mg/kg	100
74)	Ethylbenzene	11.90	91	524251	0.0098	mg/kg	100
75)	m p-Xylene	12.06	106	404010	0.0194	mg/kg	100
76)	o-Xylene	12.61	106	190859	0.0095	mg/kg	100
77)	Styrene	12.63	104	340278	0.0102	mg/kg	100
78)	Bromoform	12.88	173	71320	0.0105	mg/kg	100
79)	Isopropylben	13.14	105	497796	0.0099	mg/kg	100
81)	cyclohexanone	13.25	55	67557	0.2027	mg/kg	100
83)	Bromobenzene	13.57	156	151318	0.0095	mg/kg	100
84)	1122Tetrclta	13.55	83	132410	0.0099	mg/kg	100
85)	123Triclproa	13.61	75	123731	0.0098	mg/kg	100
86)	14dichloro2butene	13.64	53	26164	0.0126	mg/kg	100
87)	n-Propylbenz	13.73	91	602108	0.0093	mg/kg	100
88)	2chlorotolue	13.84	91	360654	0.0095	mg/kg	100
89)	4chlorotolue	14.00	91	412521	0.0094	mg/kg	100
90)	135Trimebenz	13.98	105	431103	0.0099	mg/kg	100
91)	tbutylbenzen	14.45	119	368594	0.0098	mg/kg	100
92)	124Trimetben	14.52	105	437524	0.0096	mg/kg	100
93)	sbutylbenzen	14.77	105	554029	0.0097	mg/kg	100
94)	13Diclorbenz	14.92	146	269753	0.0092	mg/kg	100
95)	pIsopropylto	14.99	119	476428	0.0098	mg/kg	100
96)	14dichlorobe	15.05	146	280073	0.0092	mg/kg	100
97)	12dichlorobe	15.60	146	271976	0.0093	mg/kg	100
98)	nButylbenzen	15.58	91	419929	0.0092	mg/kg	100
99)	12dibromo3cl	16.70	157	25500	0.0112	mg/kg	100
100)	135Trichlorobenzene	17.01	180	199705	0.0095	mg/kg	100
101)	124Trichlobe	17.82	180	181118	0.0095	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS4.D Vial: 8
Acq On : 13 Mar 2017 18:34 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:25 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:15 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

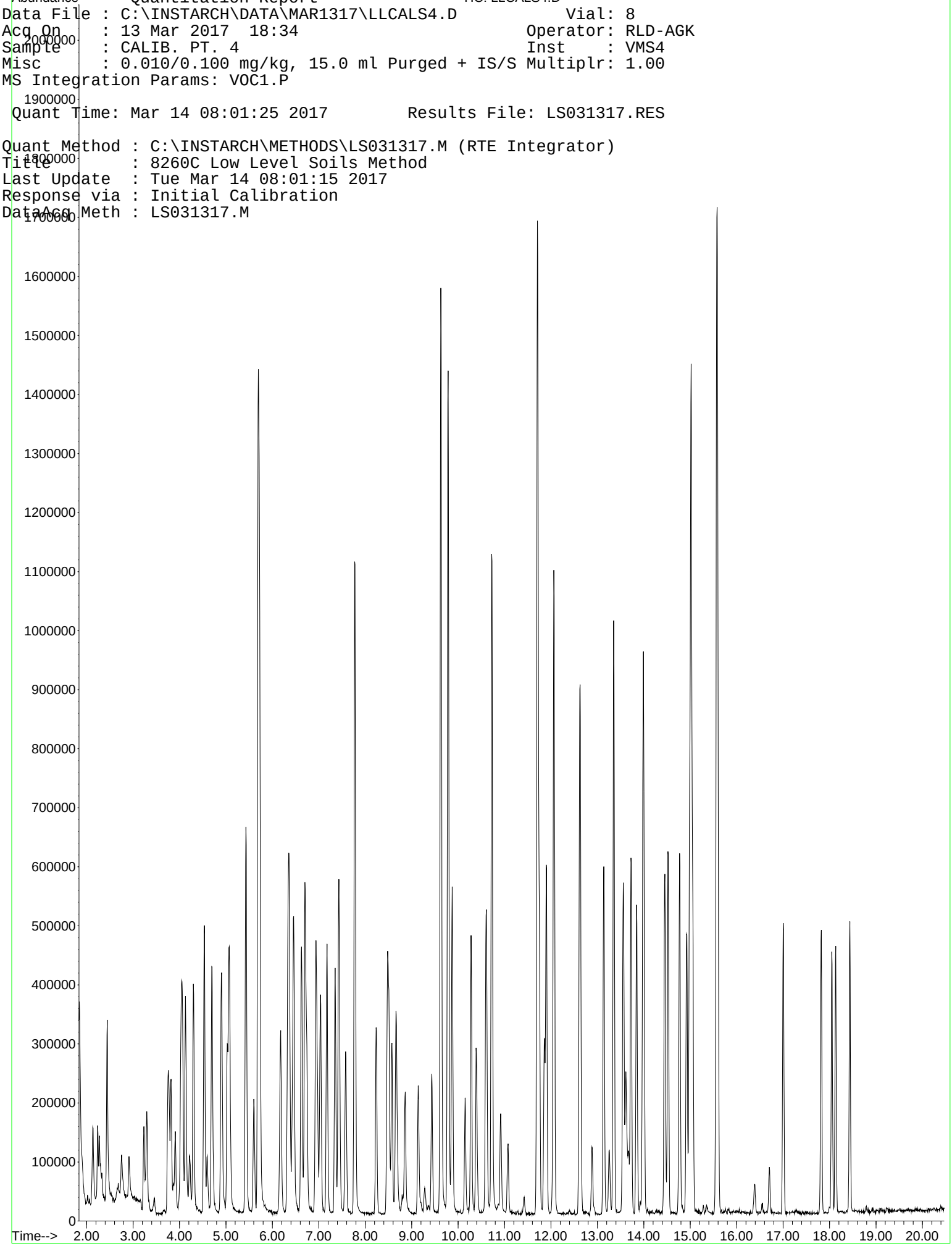
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	105478	0.0094	mg/kg	100
103) Naphthalene	18.13	128	416311	0.0103	mg/kg	100
104) 123Trichlben	18.44	180	178822	0.0097	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS4.D Vial: 8
Acq On : 13 Mar 2017 18:34 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:25 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:15 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS5.D Vial: 9
Acq On : 13 Mar 2017 19:03 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:41 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:33 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1185455	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	922873	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	516678	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	306790	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	64752	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.79	98	1171757	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	426342	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	246445	0.0150	mg/kg	99
3) Chloromethan	2.13	50	355674	0.0160	mg/kg	100
4) VinylChlorid	2.27	62	300276	0.0178	mg/kg	100
5) Bromomethane	2.74	94	152852	0.0152	mg/kg	98
6) Chloroethane	2.91	64	164193	0.0166	mg/kg	97
7) dichloroflmethane	3.23	67	408753	0.0184	mg/kg	98
8) Trichlorofma	3.30	101	312460	0.0182	mg/kg	97
9) Ethylether	3.75	59	234949	0.0209	mg/kg	95
10) dichlorotfluoroethan	3.77	67	246834	0.0185	mg/kg	99
11) propyleneoxide	3.81	58	391716	0.2040	mg/kg	95
12) Acrolein	3.91	56	301817	0.1021	mg/kg	98
13) 11dichlorthe	4.03	96	195318	0.0181	mg/kg	98
14) Trichlorotfluoroeth	4.06	101	401205	0.0366	mg/kg	99
15) Acetone	4.12	43	1049574	0.1540	mg/kg	99
16) Iodomethane	4.22	142	384147	0.0477	mg/kg	98
17) Carbon Dislf	4.30	76	1236971	0.0372	mg/kg	99
18) allylchloride	4.53	41	889501	0.0352	mg/kg	99
19) methylacetate	4.59	74	50235	0.0194	mg/kg	94
20) Methylchlorid	4.69	84	294167	0.0074	mg/kg	96
21) Acrylonitrile	5.02	53	545323	0.1005	mg/kg	99
22) t12dichlorte	5.06	96	215453	0.0187	mg/kg	96
23) tbutylalcohol	4.90	59	1256829	1.0982	mg/kg	99
24) MtBE	5.08	73	607673	0.0207	mg/kg	98
25) Hexane	5.43	57	711702	0.0362	mg/kg	96
26) 11dichlorota	5.60	63	466842	0.0187	mg/kg	98
27) Vinylacetate	5.69	43	5454692	0.2827	mg/kg	98
28) chloroprene	5.72	53	855389	0.0379	mg/kg	100
29) Diisopether	5.72	45	1110161	0.0201	mg/kg#	87
30) ETBE	6.18	59	661189	0.0207	mg/kg	97
31) 22dichloropr	6.33	77	278794	0.0195	mg/kg	99
32) c12dichlorte	6.34	96	275571	0.0185	mg/kg	98
33) 2Butanone	6.36	72	264630	0.2085	mg/kg	98
34) propionitrile	6.42	54	433415	0.2002	mg/kg	98
35) Ethylacetate	6.46	88	44574	0.0980	mg/kg	97
36) methacrylonitrile	6.62	67	197683	0.0420	mg/kg	98
37) Bromochlorma	6.64	128	134431	0.0195	mg/kg	98
38) Tetrahydofur	6.70	42	1014134	0.1967	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS5.D Vial: 9
Acq On : 13 Mar 2017 19:03 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:41 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:33 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	421258	0.0186	mg/kg	99
40)	111trichlota	6.96	97	330690	0.0194	mg/kg	97
42)	Cyclohexane	7.04	56	442751	0.0186	mg/kg	99
43)	Carbtetraclo	7.18	119	242885	0.0220	mg/kg	97
44)	11dicloprope	7.17	110	112724	0.0185	mg/kg	98
46)	Benzene	7.43	78	940426	0.0187	mg/kg	99
47)	12dichlorota	7.44	62	372705	0.0194	mg/kg	99
48)	TAME	7.58	73	460878	0.0208	mg/kg	96
49)	trichloroete	8.24	95	244921	0.0183	mg/kg	95
50)	methylcyclohexane	8.48	83	343643	0.0197	mg/kg	98
51)	12dicloropra	8.51	63	294193	0.0198	mg/kg	98
52)	23dicl1propene	8.58	75	366725	0.0203	mg/kg	94
53)	Dibromometha	8.65	93	167446	0.0199	mg/kg	95
54)	methylmethacrylate	8.67	69	158953	0.0224	mg/kg	98
55)	14dioxane	8.69	88	131530	0.9702	mg/kg	98
56)	Bromodiclrma	8.86	83	309823	0.0203	mg/kg	98
57)	2Nitropropane	9.14	43	526522	0.3263	mg/kg	97
58)	c13dicloproe	9.43	75	325089	0.0238	mg/kg	95
59)	4Meth2Pentan	9.63	43	3156597	0.2014	mg/kg	99
61)	Toluene	9.87	92	584078	0.0180	mg/kg	100
62)	t13Dicloprop	10.16	75	252018	0.0240	mg/kg	99
63)	ethylmethacrylate	10.28	69	575031	0.0457	mg/kg	99
64)	112Triclotha	10.39	83	186077	0.0198	mg/kg	97
65)	Tetrachlorte	10.60	166	263517	0.0186	mg/kg	97
66)	13Diclorpropa	10.61	76	367040	0.0198	mg/kg	99
68)	2Hexanone	10.72	43	2265336	0.2137	mg/kg	99
69)	Clorodibrmta	10.92	129	246130	0.0225	mg/kg	97
70)	12Dibrometha	11.07	107	225914	0.0215	mg/kg	97
71)	Chlorobenzen	11.75	112	682851	0.0191	mg/kg	99
72)	1Clhexane	11.71	91	292975	0.0190	mg/kg	96
73)	1112Tetclota	11.85	131	227308	0.0219	mg/kg	99
74)	Ethylbenzene	11.90	91	1094298	0.0195	mg/kg	99
75)	m p-Xylene	12.06	106	861623	0.0396	mg/kg	98
76)	o-Xylene	12.62	106	419504	0.0200	mg/kg	98
77)	Styrene	12.63	104	739763	0.0212	mg/kg	100
78)	Bromoform	12.89	173	157442	0.0223	mg/kg	96
79)	Isopropylben	13.14	105	1070575	0.0203	mg/kg	100
81)	cyclohexanone	13.25	55	174749	0.4924	mg/kg	99
83)	Bromobenzene	13.56	156	321558	0.0189	mg/kg	98
84)	1122Tetrclta	13.55	83	299818	0.0211	mg/kg	97
85)	123Triclproa	13.61	75	329057	0.0245	mg/kg	89
86)	14dichloro2butene	13.64	53	57340	0.0260	mg/kg	88
87)	n-Propylbenz	13.72	91	1273613	0.0186	mg/kg	98
88)	2chlorotolue	13.84	91	773231	0.0192	mg/kg	98
89)	4chlorotolue	14.00	91	895127	0.0192	mg/kg	99
90)	135Trimebenz	13.98	105	917328	0.0198	mg/kg	99
91)	tbutylbenzen	14.45	119	816656	0.0204	mg/kg	99
92)	124Trimetben	14.52	105	954601	0.0196	mg/kg	100
93)	sbutylbenzen	14.77	105	1181483	0.0194	mg/kg	100
94)	13Diclorbenz	14.92	146	599668	0.0193	mg/kg	99
95)	pIsopropylto	14.99	119	1021666	0.0197	mg/kg	100
96)	14dichlorobe	15.05	146	594596	0.0184	mg/kg	99
97)	12dichlorobe	15.60	146	578711	0.0185	mg/kg	99
98)	nButylbenzen	15.58	91	926302	0.0191	mg/kg	100
99)	12dibromo3cl	16.70	157	59453	0.0245	mg/kg	100
100)	135Trichlorobenzene	17.01	180	434863	0.0194	mg/kg	98
101)	124Trichlobe	17.82	180	398245	0.0197	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS5.D Vial: 9
Acq On : 13 Mar 2017 19:03 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:41 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:33 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	18.05	225	226415	0.0189	mg/kg	99
103)	Naphthalene	18.13	128	908905	0.0212	mg/kg	100
104)	123Trichlben	18.44	180	387342	0.0198	mg/kg	98

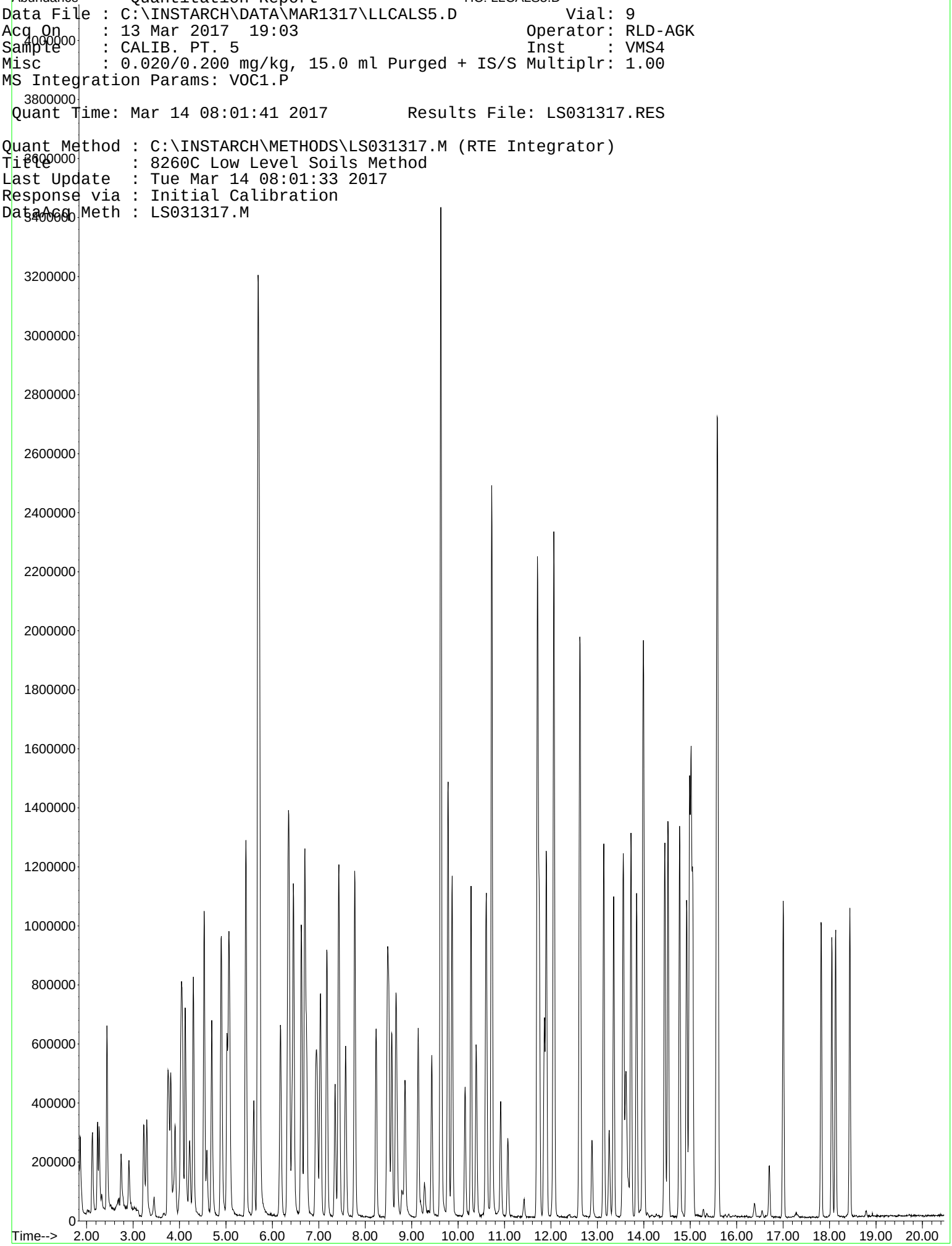
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALS5.D

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS5.D Vial: 9
Acq On : 13 Mar 2017 19:03 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:41 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:33 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS6.D Vial: 10
Acq On : 13 Mar 2017 19:31 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:59 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:49 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1201004	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	937932	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	506308	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	307652	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	66691	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.79	98	1159595	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %			
82) SURR4BrFBenz	13.35	95	428689	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	364633	0.0230	mg/kg	99
3) Chloromethan	2.12	50	515802	0.0239	mg/kg	98
4) VinylChlorid	2.27	62	439463	0.0262	mg/kg	99
5) Bromomethane	2.74	94	241100	0.0249	mg/kg	94
6) Chloroethane	2.91	64	233609	0.0241	mg/kg	100
7) dichloroflmethane	3.23	67	605765	0.0274	mg/kg	97
8) Trichlorofma	3.30	101	480257	0.0281	mg/kg	96
9) Ethylether	3.75	59	352092	0.0307	mg/kg	93
10) dichlorotfluoroethan	3.77	67	356360	0.0267	mg/kg	97
11) propyleneoxide	3.81	58	599959	0.3072	mg/kg	94
12) Acrolein	3.90	56	432487	0.1438	mg/kg	99
13) 11dichlorthe	4.03	96	294734	0.0274	mg/kg	99
14) Trichlorotfluoroeth	4.06	101	591701	0.0542	mg/kg	98
15) Acetone	4.12	43	1461129	0.2218	mg/kg	99
16) Iodomethane	4.22	142	626813	0.0740	mg/kg	99
17) Carbon Dislf	4.30	76	1821073	0.0548	mg/kg	99
18) allylchloride	4.53	41	1312525	0.0525	mg/kg	99
19) methylacetate	4.58	74	77187	0.0296	mg/kg	99
20) Methylchlorid	4.69	84	421159	0.0120	mg/kg	96
21) Acrylonitrile	5.02	53	783943	0.1424	mg/kg	98
22) t12dichlorte	5.06	96	319664	0.0277	mg/kg	99
23) tbutylalcohol	4.90	59	1883650	1.5934	mg/kg	97
24) MtBE	5.08	73	905274	0.0303	mg/kg	100
25) Hexane	5.43	57	1043576	0.0534	mg/kg	98
26) 11dichlorota	5.60	63	679881	0.0272	mg/kg	99
27) Vinylacetate	5.69	43	7921033	0.3743	mg/kg	96
28) chloroprene	5.72	53	1267391	0.0560	mg/kg	100
29) Diisopether	5.72	45	1638251	0.0292	mg/kg#	90
30) ETBE	6.17	59	1030127	0.0316	mg/kg	98
31) 22dichloropr	6.33	77	414438	0.0288	mg/kg	98
32) c12dichlorte	6.34	96	409552	0.0276	mg/kg	97
33) 2Butanone	6.36	72	393587	0.3035	mg/kg	96
34) propionitrile	6.43	54	604231	0.2754	mg/kg	98
35) Ethylacetate	6.45	88	67235	0.1465	mg/kg	99
36) methacrylonitrile	6.62	67	290436	0.0603	mg/kg	99
37) Bromochlorma	6.64	128	196831	0.0283	mg/kg	99
38) Tetrahydofur	6.70	42	1465618	0.2815	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS6.D Vial: 10
Acq On : 13 Mar 2017 19:31 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:59 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:49 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	618677	0.0274	mg/kg	99
40)	111trichlota	6.96	97	499011	0.0290	mg/kg	97
42)	Cyclohexane	7.04	56	670868	0.0282	mg/kg	99
43)	Carbtetraclo	7.18	119	374929	0.0329	mg/kg	99
44)	11dicloprope	7.17	110	170508	0.0281	mg/kg	99
46)	Benzene	7.43	78	1375491	0.0274	mg/kg	98
47)	12dichlorota	7.44	62	548367	0.0284	mg/kg	100
48)	TAME	7.58	73	745848	0.0330	mg/kg	95
49)	trichloroete	8.23	95	358326	0.0269	mg/kg	96
50)	methylcyclohexane	8.48	83	516972	0.0293	mg/kg	99
51)	12dicloropra	8.51	63	430957	0.0286	mg/kg	99
52)	23dicl1propene	8.57	75	555906	0.0303	mg/kg	96
53)	Dibromometha	8.65	93	243011	0.0285	mg/kg	98
54)	methylmethacrylate	8.67	69	234264	0.0318	mg/kg	100
55)	14dioxane	8.69	88	203907	1.4935	mg/kg	91
56)	Bromodiclrma	8.86	83	483821	0.0312	mg/kg	100
57)	2Nitropropane	9.14	43	883217	0.4797	mg/kg	98
58)	c13dicloproe	9.43	75	502472	0.0350	mg/kg	96
59)	4Meth2Pentan	9.63	43	4483959	0.2820	mg/kg	97
61)	Toluene	9.87	92	870400	0.0271	mg/kg	99
62)	t13Dicloprop	10.15	75	399786	0.0361	mg/kg	99
63)	ethylmethacrylate	10.28	69	880886	0.0672	mg/kg	99
64)	112Triclotha	10.39	83	279346	0.0294	mg/kg	96
65)	Tetrachlorte	10.60	166	385852	0.0272	mg/kg	97
66)	13Diclorpropa	10.61	76	549728	0.0293	mg/kg	98
68)	2Hexanone	10.72	43	3257082	0.2983	mg/kg	97
69)	Clorodibrmta	10.92	129	372281	0.0327	mg/kg	97
70)	12Dibrometha	11.07	107	337521	0.0312	mg/kg	97
71)	Chlorobenzen	11.75	112	978123	0.0272	mg/kg	99
72)	1Clhexane	11.71	91	439162	0.0283	mg/kg	95
73)	1112Tetclota	11.85	131	345994	0.0322	mg/kg	99
74)	Ethylbenzene	11.90	91	1618348	0.0285	mg/kg	100
75)	m p-Xylene	12.06	106	1257320	0.0570	mg/kg	99
76)	o-Xylene	12.62	106	630685	0.0295	mg/kg	96
77)	Styrene	12.63	104	1093289	0.0304	mg/kg	98
78)	Bromoform	12.88	173	255179	0.0347	mg/kg	98
79)	Isopropylben	13.14	105	1573453	0.0293	mg/kg	99
81)	cyclohexanone	13.25	55	263050	0.7230	mg/kg	97
83)	Bromobenzene	13.56	156	477352	0.0290	mg/kg	99
84)	1122Tetrclta	13.55	83	441258	0.0313	mg/kg	97
85)	123Triclproa	13.61	75	483227	0.0351	mg/kg	88
86)	14dichloro2butene	13.64	53	89183	0.0389	mg/kg	83
87)	n-Propylbenz	13.72	91	1891133	0.0285	mg/kg	97
88)	2chlorotolue	13.84	91	1143767	0.0292	mg/kg	98
89)	4chlorotolue	14.00	91	1325399	0.0292	mg/kg	99
90)	135Trimebenz	13.98	105	1395147	0.0307	mg/kg	99
91)	tbutylbenzen	14.45	119	1203394	0.0305	mg/kg	99
92)	124Trimetben	14.52	105	1401523	0.0295	mg/kg	99
93)	sbutylbenzen	14.77	105	1760252	0.0296	mg/kg	100
94)	13Diclorbenz	14.92	146	865618	0.0286	mg/kg	99
95)	pIsopropylto	14.99	119	1526455	0.0302	mg/kg	98
96)	14dichlorobe	15.05	146	889102	0.0286	mg/kg	99
97)	12dichlorobe	15.60	146	860194	0.0285	mg/kg	98
98)	nButylbenzen	15.58	91	1357964	0.0288	mg/kg	99
99)	12dibromo3cl	16.70	157	86275	0.0347	mg/kg	96
100)	135Trichlorobenzene	17.01	180	641954	0.0294	mg/kg	99
101)	124Trichlobe	17.82	180	593314	0.0300	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS6.D Vial: 10
Acq On : 13 Mar 2017 19:31 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:59 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:49 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	333095	0.0287	mg/kg	98
103) Naphthalene	18.13	128	1351070	0.0318	mg/kg	98
104) 123Trichlben	18.44	180	579105	0.0302	mg/kg	99

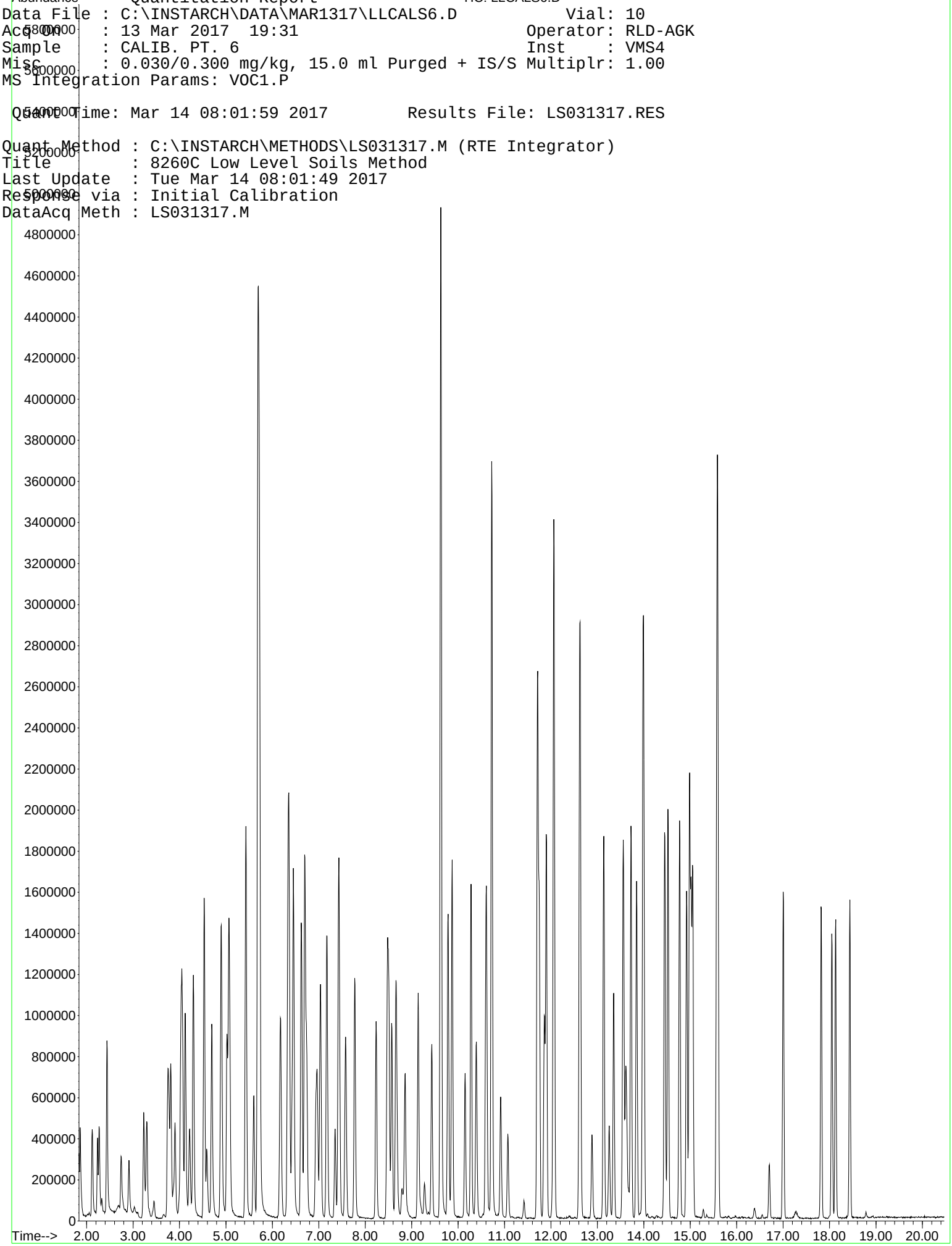
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS6.D Vial: 10
Acq On : 13 Mar 2017 19:31 Operator: RLD-AGK
Sample : 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: Mar 14 08:01:59 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:01:49 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS7.D Vial: 11
Acq On : 13 Mar 2017 20:00 Operator: RLD-AGK
Sample : 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: Mar 14 08:02:18 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:07 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1236339	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	949327	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	528154	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	313805	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.36	102	67680	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.79	98	1205403	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	442204	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	479621	0.0306	mg/kg	99
3) Chloromethan	2.13	50	665835	0.0310	mg/kg	98
4) VinylChlorid	2.27	62	581656	0.0345	mg/kg	99
5) Bromomethane	2.75	94	320821	0.0331	mg/kg	96
6) Chloroethane	2.91	64	319828	0.0331	mg/kg	97
7) dichloroflmethane	3.23	67	792475	0.0353	mg/kg	97
8) Trichlorofma	3.29	101	630556	0.0363	mg/kg	97
9) Ethylether	3.75	59	436291	0.0368	mg/kg	96
10) dichlorotfluoroethan	3.77	67	467857	0.0347	mg/kg	98
11) propyleneoxide	3.81	58	839619	0.4160	mg/kg	94
12) Acrolein	3.90	56	602845	0.1961	mg/kg	95
13) 11dichlorthe	4.03	96	387575	0.0356	mg/kg	100
14) Trichlorotfluoroeth	4.06	101	789328	0.0714	mg/kg	99
15) Acetone	4.12	43	1969539	0.3036	mg/kg	99
16) Iodomethane	4.22	142	850591	0.0939	mg/kg	99
17) Carbon Dislf	4.30	76	2394491	0.0710	mg/kg	99
18) allylchloride	4.53	41	1748726	0.0694	mg/kg	99
19) methylacetate	4.59	74	102875	0.0385	mg/kg	97
20) Methylchlorid	4.69	84	550897	0.0169	mg/kg	96
21) Acrylonitrile	5.02	53	1064657	0.1895	mg/kg	98
22) t12dichlorte	5.06	96	426898	0.0364	mg/kg	98
23) tbutylalcohol	4.90	59	2744900	2.2324	mg/kg	95
24) MtBE	5.08	73	1240761	0.0402	mg/kg	99
25) Hexane	5.43	57	1340195	0.0678	mg/kg	99
26) 11dichlorota	5.60	63	905227	0.0358	mg/kg	100
27) Vinylacetate	5.69	43	10179076	0.4487	mg/kg	94
28) chloroprene	5.72	53	1681742	0.0730	mg/kg	99
29) Diisopether	5.72	45	2191622	0.0382	mg/kg	97
30) ETBE	6.17	59	1439178	0.0426	mg/kg	97
31) 22dichloropr	6.34	77	570146	0.0387	mg/kg	99
32) c12dichlorte	6.34	96	539511	0.0358	mg/kg	98
33) 2Butanone	6.36	72	547599	0.4094	mg/kg	95
34) propionitrile	6.42	54	843489	0.3786	mg/kg	98
35) Ethylacetate	6.45	88	92846	0.1973	mg/kg	98
36) methacrylonitrile	6.62	67	390708	0.0787	mg/kg	99
37) Bromochlorma	6.63	128	259729	0.0366	mg/kg	100
38) Tetrahydofur	6.70	42	2044003	0.3853	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS7.D Vial: 11
Acq On : 13 Mar 2017 20:00 Operator: RLD-AGK
Sample : 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: Mar 14 08:02:18 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:07 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	833939	0.0364	mg/kg	100
40)	111trichlota	6.96	97	670009	0.0381	mg/kg	98
42)	Cyclohexane	7.04	56	886492	0.0366	mg/kg	100
43)	Carbtetraclo	7.18	119	516972	0.0434	mg/kg	98
44)	11dicloprope	7.17	110	228245	0.0369	mg/kg	98
46)	Benzene	7.43	78	1821081	0.0357	mg/kg	98
47)	12dichlorota	7.44	62	733484	0.0372	mg/kg	99
48)	TAME	7.58	73	1043040	0.0440	mg/kg	94
49)	trichloroete	8.23	95	484712	0.0360	mg/kg	95
50)	methylcyclohexane	8.48	83	692590	0.0383	mg/kg	98
51)	12dicloropra	8.51	63	569176	0.0370	mg/kg	100
52)	23dicl1propene	8.57	75	725913	0.0383	mg/kg	94
53)	Dibromometha	8.66	93	322458	0.0370	mg/kg	97
54)	methylmethacrylate	8.67	69	334619	0.0437	mg/kg	98
55)	14dioxane	8.69	88	273799	1.9495	mg/kg	95
56)	Bromodiclrma	8.86	83	641367	0.0399	mg/kg	99
57)	2Nitropropane	9.14	43	1278470	0.6133	mg/kg	97
58)	c13dicloproe	9.43	75	681925	0.0449	mg/kg	96
59)	4Meth2Pentan	9.63	43	5939170	0.3666	mg/kg	95
61)	Toluene	9.87	92	1130104	0.0347	mg/kg	100
62)	t13Dicloprop	10.15	75	548402	0.0466	mg/kg	97
63)	ethylmethacrylate	10.28	69	1210268	0.0879	mg/kg	99
64)	112Triclotha	10.39	83	372244	0.0382	mg/kg	97
65)	Tetrachlorte	10.60	166	511788	0.0356	mg/kg	98
66)	13Diclorpropa	10.61	76	723841	0.0376	mg/kg	99
68)	2Hexanone	10.72	43	4379094	0.3966	mg/kg	96
69)	Clorodibrmta	10.92	129	516902	0.0442	mg/kg	98
70)	12Dibrometha	11.07	107	459102	0.0416	mg/kg	97
71)	Chlorobenzen	11.75	112	1315688	0.0367	mg/kg	98
72)	1Clhexane	11.71	91	583863	0.0376	mg/kg	93
73)	1112Tetclota	11.85	131	471739	0.0428	mg/kg	98
74)	Ethylbenzene	11.90	91	2125781	0.0373	mg/kg	99
75)	m p-Xylene	12.06	106	1649647	0.0745	mg/kg	98
76)	o-Xylene	12.62	106	840703	0.0390	mg/kg	96
77)	Styrene	12.63	104	1437207	0.0394	mg/kg	98
78)	Bromoform	12.88	173	357609	0.0469	mg/kg	99
79)	Isopropylben	13.14	105	2068197	0.0382	mg/kg	99
81)	cyclohexanone	13.25	55	371379	0.9462	mg/kg	95
83)	Bromobenzene	13.56	156	637681	0.0373	mg/kg	100
84)	1122Tetrclta	13.55	83	602779	0.0407	mg/kg	96
85)	123Triclproa	13.61	75	566539	0.0384	mg/kg	95
86)	14dichloro2butene	13.63	53	130971	0.0522	mg/kg	84
87)	n-Propylbenz	13.72	91	2443290	0.0356	mg/kg	97
88)	2chlorotolue	13.84	91	1487481	0.0365	mg/kg	99
89)	4chlorotolue	14.00	91	1706316	0.0362	mg/kg	100
90)	135Trimebenz	13.98	105	1783744	0.0375	mg/kg	98
91)	tbutylbenzen	14.45	119	1586099	0.0385	mg/kg	99
92)	124Trimetben	14.52	105	1824696	0.0369	mg/kg	100
93)	sbutylbenzen	14.77	105	2271516	0.0367	mg/kg	99
94)	13Diclorbenz	14.92	146	1127942	0.0360	mg/kg	98
95)	pIsopropylto	14.99	119	1954233	0.0370	mg/kg	97
96)	14dichlorobe	15.05	146	1135091	0.0353	mg/kg	99
97)	12dichlorobe	15.60	146	1110906	0.0356	mg/kg	98
98)	nButylbenzen	15.58	91	1744755	0.0357	mg/kg	99
99)	12dibromo3cl	16.70	157	126205	0.0475	mg/kg	98
100)	135Trichlorobenzene	17.00	180	808936	0.0357	mg/kg	99
101)	124Trichlobe	17.82	180	762143	0.0369	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS7.D Vial: 11
Acq On : 13 Mar 2017 20:00 Operator: RLD-AGK
Sample : 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: Mar 14 08:02:18 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:07 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	432993	0.0360 mg/kg	99
103) Naphthalene	18.13	128	1831957	0.0409 mg/kg	98
104) 123Trichlben	18.44	180	766885	0.0383 mg/kg	99

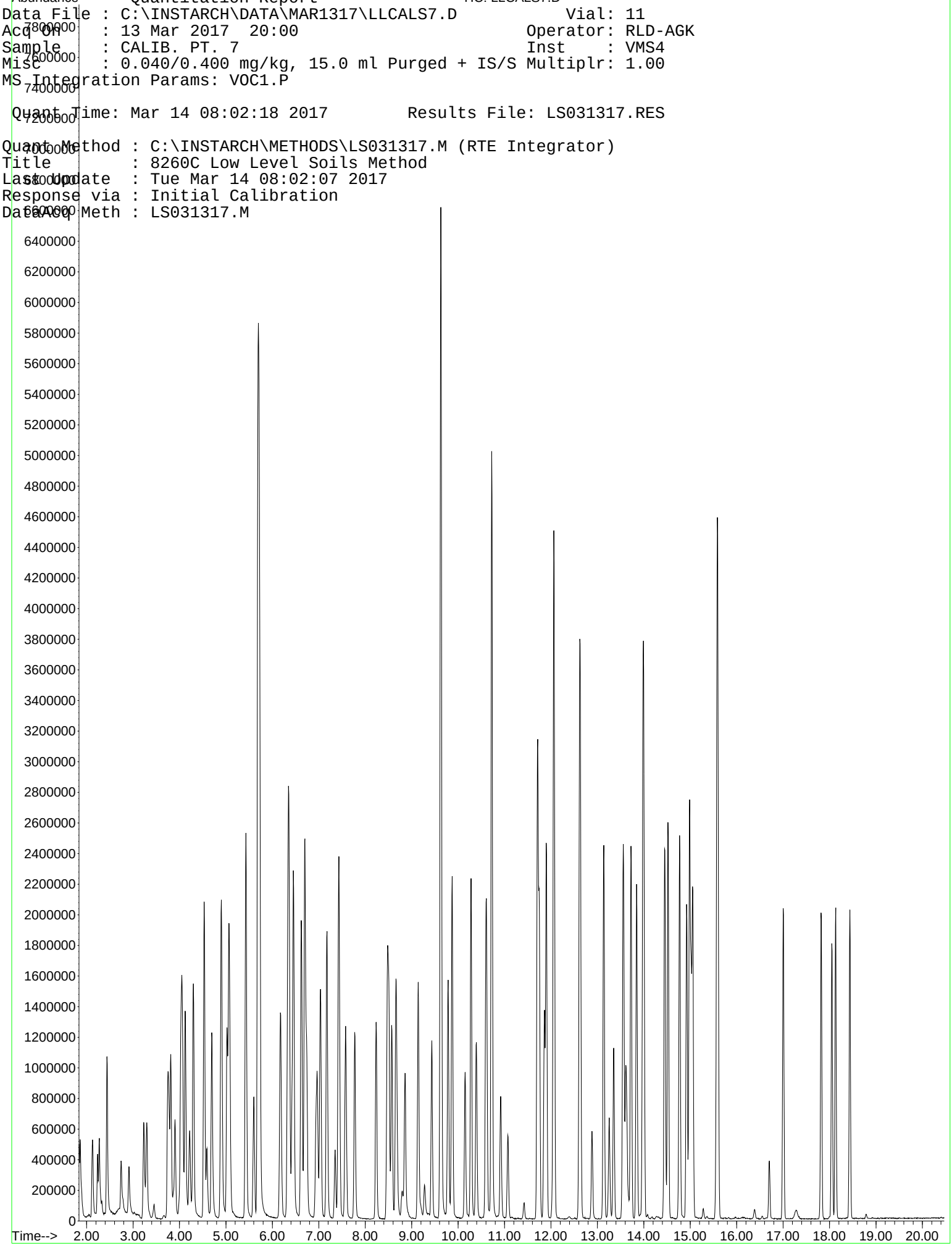
(#) = qualifier out of range (m) = manual integration

Quantitation Report TIC: LLCALS7.D

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS7.D Vial: 11
Acq On : 13 Mar 2017 20:00 Operator: RLD-AGK
Sample : 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: Mar 14 08:02:18 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:07 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS8.D Vial: 12
Acq On : 13 Mar 2017 20:29 Operator: RLD-AGK
Sample : 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: Mar 14 08:02:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:26 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	1264001	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	968692	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	558016	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	326877	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	68770	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.79	98	1242157	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	456097	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	973957	0.0629	mg/kg	98
3) Chloromethan	2.12	50	1343908	0.0633	mg/kg	100
4) VinylChlorid	2.27	62	1186463	0.0701	mg/kg	99
5) Bromomethane	2.74	94	682307	0.0707	mg/kg	98
6) Chloroethane	2.91	64	653204	0.0679	mg/kg	98
7) dichloroflmethane	3.23	67	1639920	0.0727	mg/kg	98
8) Trichlorofma	3.29	101	1307919	0.0746	mg/kg	99
9) Ethylether	3.75	59	914317	0.0763	mg/kg	97
10) dichlorotfluoroethan	3.77	67	968800	0.0717	mg/kg	98
11) propyleneoxide	3.81	58	1831519	0.8825	mg/kg	94
12) Acrolein	3.90	56	1287289	0.4107	mg/kg	91
13) 11dichlorthe	4.03	96	800338	0.0730	mg/kg	99
14) Trichlorotfluoroeth	4.06	101	1648384	0.1481	mg/kg	99
15) Acetone	4.12	43	3813114	0.5955	mg/kg	97
16) Iodomethane	4.22	142	1974575	0.2081	mg/kg	98
17) Carbon Dislf	4.30	76	4842813	0.1428	mg/kg	98
18) allylchloride	4.53	41	3560081	0.1409	mg/kg	97
19) methylacetate	4.59	74	220896	0.0812	mg/kg	100
20) Methylchlorid	4.69	84	1059842	0.0347	mg/kg	96
21) Acrylonitrile	5.02	53	2215589	0.3886	mg/kg	99
22) t12dichlorte	5.06	96	879732	0.0744	mg/kg	98
23) tbutylalcohol	4.90	59	5738061	4.4900	mg/kg	95
24) MtBE	5.08	73	2626935	0.0833	mg/kg	99
25) Hexane	5.43	57	2896777	0.1466	mg/kg	99
26) 11dichlorota	5.60	63	1872639	0.0735	mg/kg	99
27) Vinylacetate	5.69	43	15849103	0.6717	mg/kg	86
28) chloroprene	5.72	53	3383625	0.1456	mg/kg	99
29) Diisopether	5.72	45	4330177	0.0742	mg/kg#	66
30) ETBE	6.17	59	3053601	0.0875	mg/kg	98
31) 22dichloropr	6.33	77	1230500	0.0821	mg/kg	98
32) c12dichlorte	6.34	96	1110072	0.0731	mg/kg	99
33) 2Butanone	6.36	72	1137485	0.8291	mg/kg	98
34) propionitrile	6.42	54	1747251	0.7731	mg/kg	98
35) Ethylacetate	6.46	88	188994	0.3937	mg/kg#	92
36) methacrylonitrile	6.62	67	830258	0.1640	mg/kg	99
37) Bromochlorma	6.63	128	531746	0.0742	mg/kg	98
38) Tetrahydofur	6.70	42	4136208	0.7667	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS8.D Vial: 12
Acq On : 13 Mar 2017 20:29 Operator: RLD-AGK
Sample : 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: Mar 14 08:02:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:26 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	1716452	0.0742	mg/kg	99
40)	111trichlota	6.96	97	1426918	0.0798	mg/kg	96
42)	Cyclohexane	7.04	56	1862437	0.0761	mg/kg	100
43)	Carbtetraclo	7.18	119	1131018	0.0917	mg/kg	99
44)	11dicloprope	7.18	110	469646	0.0751	mg/kg	97
46)	Benzene	7.43	78	3736579	0.0729	mg/kg	97
47)	12dichlorota	7.44	62	1509701	0.0757	mg/kg	99
48)	TAME	7.58	73	2342650	0.0954	mg/kg	92
49)	trichloroete	8.23	95	1011449	0.0746	mg/kg	95
50)	methylcyclohexane	8.48	83	1486141	0.0809	mg/kg	98
51)	12dicloropra	8.51	63	1200849	0.0772	mg/kg	98
52)	23dicl1propene	8.58	75	1553395	0.0807	mg/kg	94
53)	Dibromometha	8.65	93	677887	0.0770	mg/kg	98
54)	methylmethacrylate	8.67	69	711191	0.0896	mg/kg	99
55)	14dioxane	8.69	88	593965	4.1516	mg/kg	91
56)	Bromodiclrma	8.86	83	1361871	0.0830	mg/kg	98
57)	2Nitropropane	9.14	43	3199859	1.3951	mg/kg	95
58)	c13dicloproe	9.43	75	1537364	0.0973	mg/kg	98
59)	4Meth2Pentan	9.63	43	10272485	0.6276	mg/kg	85
61)	Toluene	9.87	92	2365212	0.0724	mg/kg	95
62)	t13Dicloprop	10.15	75	1252441	0.1017	mg/kg	100
63)	ethylmethacrylate	10.28	69	2528819	0.1772	mg/kg	99
64)	112Triclotha	10.39	83	774318	0.0783	mg/kg	98
65)	Tetrachlorte	10.60	166	1091650	0.0755	mg/kg	97
66)	13Diclorpropa	10.61	76	1525824	0.0783	mg/kg	99
68)	2Hexanone	10.72	43	8092427	0.7191	mg/kg	89
69)	Clorodibrmta	10.92	129	1113836	0.0919	mg/kg	98
70)	12Dibrometha	11.07	107	968195	0.0856	mg/kg	97
71)	Chlorobenzen	11.75	112	2683112	0.0743	mg/kg	99
72)	1Clhexane	11.71	91	1247922	0.0794	mg/kg	92
73)	1112Tetclota	11.86	131	1027351	0.0905	mg/kg	99
74)	Ethylbenzene	11.90	91	4343765	0.0754	mg/kg	96
75)	m p-Xylene	12.06	106	3435406	0.1536	mg/kg	92
76)	o-Xylene	12.62	106	1762013	0.0804	mg/kg	93
77)	Styrene	12.63	104	3009551	0.0811	mg/kg	97
78)	Bromoform	12.88	173	798148	0.1000	mg/kg	97
79)	Isopropylben	13.14	105	4247476	0.0774	mg/kg	97
81)	cyclohexanone	13.25	55	840902	1.9762	mg/kg	96
83)	Bromobenzene	13.56	156	1346071	0.0753	mg/kg	99
84)	1122Tetrclta	13.55	83	1260796	0.0804	mg/kg	95
85)	123Triclproa	13.61	75	1234549	0.0796	mg/kg	93
86)	14dichloro2butene	13.64	53	308440	0.1115	mg/kg	78
87)	n-Propylbenz	13.72	91	4992076	0.0700	mg/kg	95
88)	2chlorotolue	13.84	91	3107301	0.0731	mg/kg	100
89)	4chlorotolue	14.00	91	3632320	0.0740	mg/kg	100
90)	135Trimebenz	13.98	105	3716403	0.0747	mg/kg	97
91)	tbutylbenzen	14.45	119	3315985	0.0765	mg/kg	98
92)	124Trimetben	14.52	105	3793977	0.0734	mg/kg	97
93)	sbutylbenzen	14.77	105	4707926	0.0729	mg/kg	97
94)	13Diclorbenz	14.92	146	2384622	0.0732	mg/kg	99
95)	pIsopropylto	14.99	119	4131241	0.0748	mg/kg	96
96)	14dichlorobe	15.05	146	2399148	0.0718	mg/kg	97
97)	12dichlorobe	15.60	146	2316197	0.0714	mg/kg	99
98)	nButylbenzen	15.58	91	3716341	0.0731	mg/kg	97
99)	12dibromo3cl	16.70	157	282030	0.0978	mg/kg	100
100)	135Trichlorobenzene	17.01	180	1760657	0.0746	mg/kg	100
101)	124Trichlobe	17.82	180	1642335	0.0761	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS8.D Vial: 12
Acq On : 13 Mar 2017 20:29 Operator: RLD-AGK
Sample : 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: Mar 14 08:02:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:26 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	932408	0.0745 mg/kg	97
103) Naphthalene	18.13	128	3761670	0.0792 mg/kg	97
104) 123Trichlben	18.44	180	1587385	0.0755 mg/kg	99

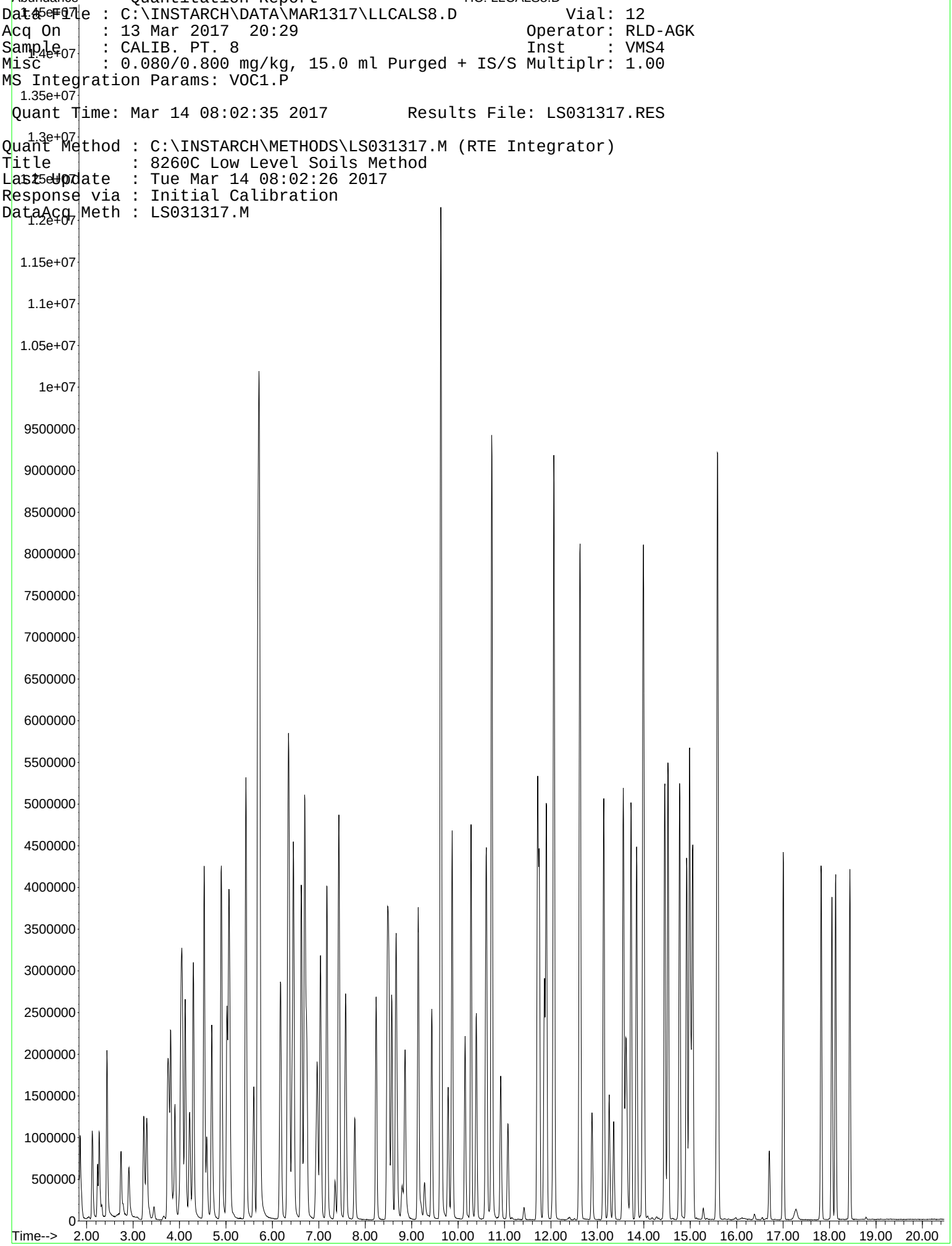
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\LLCALS8.D Vial: 12
Acq On : 13 Mar 2017 20:29 Operator: RLD-AGK
Sample : 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: Mar 14 08:02:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:02:26 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\MAR1317\ICV1.D Vial: 14
Acq On : 13 Mar 2017 21:26 Operator: RLD-AGK
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: Mar 14 08:34:10 2017

Quant Method : C:\INSTARCH\METHODS\LS031317.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS031317.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	109	0.00
2	T	Dichlorodi	0.2249	0.2227	0.98	104	0.00
3	PT	Chloromethan	0.3158	0.3147	0.35	105	0.00
4	CT	VinylChlorid	0.2636	0.2610	0.99	107	0.00
5	T	Bromomethane	0.1341	0.1480	-10.37	126	0.00
6	T	Chloroethane	0.1394	0.1343	3.66	102	0.00
7	T	dichloroflmethane	0.3530	0.3614	-2.38	112	0.00
8	T	Trichlorofma	0.2751	0.2757	-0.22	107	0.00
9	T	Ethylether	0.1885	0.2043	-8.38	122	0.00
10	T	dichlorotfluoroethan	0.2111	0.2201	-4.26	111	0.00
11	T	propyleneoxide	0.0333	0.0346	-3.90	122	0.00
12	T	Acrolein	0.0498	0.0493	1.00	113	0.00
13	CT	11dichlorthe	0.1716	0.1699	0.99	108	0.00
14	T	Trichlorotfluoroeth	0.1744	0.1771	-1.55	110	0.00
15	T	Acetone	0.0914	0.0962	-5.25	109	0.00
16	T	Iodomethane	0.1508	0.1455	3.51	121	0.00
17	T	Carbon Dislf	0.5293	0.5404	-2.10	113	0.00
18	T	allylchloride	0.3939	0.3874	1.65	112	0.00
19	T	methylacetate	0.0431	0.0449	-4.18	128	-0.01
20	T	Methylchlorid	0.4112	0.3198	22.23#	103	0.00
21	T	Acrylonitrile	0.0899	0.0891	0.89	108	0.00
22	T	t12dichlorte	0.1855	0.1845	0.54	109	0.00
23	T	tbutylalcohol	0.0205	0.0225	-9.76	127	0.00
24	T	MtBE	0.5017	0.5217	-3.99	115	0.00
25	T	Hexane	0.3094	0.3046	1.55	106	0.00
26	PT	11dichlorota	0.3989	0.4001	-0.30	112	0.00
27	T	Vinylacetate	0.3734	0.4548	-21.80#	117	0.00
28	T	chloroprene	0.3637	0.3747	-3.02	110	0.00
29	T	Diisopether	0.9145	0.9435	-3.17	111	0.00
30	T	ETBE	0.5585	0.5916	-5.93	117	0.00
31	T	22dichloropr	0.2379	0.2344	1.47	110	0.00
32	T	c12dichlorte	0.2377	0.2275	4.29	106	0.00
33	T	2Butanone	0.0218	0.0230	-5.50	118	0.00
34	T	propionitrile	0.0356	0.0360	-1.12	114	0.00
35	T	Ethylacetate	0.0076	0.0082#	-7.89	122	0.00
36	T	methacrylonitrile	0.0804	0.0828	-2.99	113	0.00
37	T	Bromochlorma	0.1124	0.1113	0.98	111	0.00
38	T	Tetrahydofur	0.0849	0.0871	-2.59	114	0.00
39	CT	Chloroform	0.3625	0.3548	2.12	107	0.00
40	T	111trichlota	0.2828	0.2704	4.38	106	0.00
41	S	SURRDibrflma	0.2529	0.2586	-2.25	113	0.00
42	T	Cyclohexane	0.3847	0.3799	1.25	109	0.00
43	T	Carbtetraclo	0.1988	0.1949	1.96	107	0.00
44	T	11dicloprope	0.0982	0.0966	1.63	107	0.00
45	S	SURR12DCAd4	0.0567	0.0541	4.59	99	0.00
46	T	Benzene	0.8025	0.8078	-0.66	109	0.00
47	T	12dichlorota	0.3136	0.3096	1.28	109	0.00
48	T	TAME	0.3980	0.4289	-7.76	118	0.00

49	T	trichloroete	0.2128	0.2104	1.13	112	0.00
50	T	methylcyclohexane	0.2910	0.2936	-0.89	109	0.00
51	CT	12dicloropra	0.2449	0.2369	3.27	110	0.00
52	T	23dicl1propene	0.3049	0.3072	-0.75	110	0.00
53	T	Dibromometha	0.1387	0.1297	6.49	106	0.00
54	T	methylmethacrylate	0.1275	0.1345	-5.49	115	-0.01
55	T	14dioxane	0.0023	0.0024#	-4.35	126	0.00
56	T	Bromodiclrma	0.2609	0.2610	-0.04	110	0.00
57	T	2Nitropropane	0.0397	0.0344	13.35	121	0.00
58	T	c13dicloproe	0.2569	0.2547	0.86	112	0.00
59	T	4Meth2Pentan	0.2520	0.2693	-6.87	112	0.00
60	S	SURRd8Tolule	0.9885	0.9883	0.02	109	0.00
61	CT	Toluene	0.5107	0.4986	2.37	110	0.00
62	T	t13Dicloprop	0.2046	0.1977	3.37	112	0.00
63	T	ethylmethacrylate	0.2289	0.2444	-6.77	116	0.00
64	T	112Triclotha	0.1561	0.1539	1.41	111	0.00
65	T	Tetrachlorte	0.2271	0.2115	6.87	100	0.00
66	T	13Diclorpropa	0.3076	0.3047	0.94	108	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	108	0.00
68	T	2Hexanone	0.2294	0.2461	-7.28	113	0.00
69	T	Clorodibrmta	0.2548	0.2457	3.57	109	0.00
70	T	12Dibrometha	0.2357	0.2403	-1.95	111	0.00
71	PT	Chlorobenzen	0.7390	0.7326	0.87	108	0.00
72	T	1Clhexane	0.3243	0.3205	1.17	109	0.00
73	T	1112Tetclota	0.2383	0.2401	-0.76	114	0.00
74	CT	Ethylbenzene	1.1804	1.2164	-3.05	110	0.00
75	T	m p-Xylene	0.4594	0.4670	-1.65	110	0.00
76	T	o-Xylene	0.4528	0.4593	-1.44	114	0.00
77	T	Styrene	0.7676	0.7778	-1.33	109	0.00
78	PT	Bromoform	0.1699	0.1672	1.59	112	0.00
79	T	Isopropylben	1.1288	1.1491	-1.80	110	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	108	0.00
81	T	cyclohexanone	0.0157	0.0161	-2.55	125	0.00
82	S	SURR4BrFBenz	0.8316	0.8526	-2.53	113	0.00
83	T	Bromobenzene	0.6363	0.6293	1.10	109	0.00
84	PT	1122Tetrclta	0.5626	0.5582	0.78	110	0.00
85	T	123Triclproa	0.5553	0.6232	-12.23	132	0.00
86	T	14dichloro2butene	0.1041	0.1061	-1.92	106	0.00
87	T	n-Propylbenz	2.5154	2.4725	1.71	107	0.00
88	T	2chlorotolue	1.5063	1.4991	0.48	109	0.00
89	T	4chlorotolue	1.7437	1.7400	0.21	110	0.00
90	T	135Trimebenz	1.7691	1.8623	-5.27	113	0.00
91	T	tbutylbenzen	1.5446	1.6002	-3.60	113	0.00
92	T	124Trimetben	1.8332	1.8945	-3.34	113	0.00
93	T	sbutylbenzen	2.2893	2.3444	-2.41	111	0.00
94	T	13Diclorbenz	1.1557	1.1220	2.92	109	0.00
95	T	pIsopropylto	1.9625	1.9523	0.52	107	0.00
96	T	14dichlorobe	1.1828	1.1394	3.67	106	0.00
97	T	12dichlorobe	1.1474	1.0855	5.39	104	0.00
98	T	nButylbenzen	1.8015	1.7333	3.79	108	0.00
99	T	12dibromo3cl	0.1034	0.1038	-0.39	106	0.00
100	T	135Trichlorobenzene	0.8384	0.8021	4.33	105	0.00
101	T	124Trichlobe	0.7683	0.7306	4.91	105	0.00
102	T	Hexachlorobu	0.4448	0.4248	4.50	105	0.00
103	T	Naphthalene	1.6993	1.7288	-1.74	109	0.00
104	T	123Trichlben	0.7481	0.7336	1.94	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS031317.M Fri Mar 17 14:03:14 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\MAR1317\ICV1.D Vial: 14
Acq On : 13 Mar 2017 21:26 Operator: RLD-AGK
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: Mar 14 08:34:10 2017

Quant Method : C:\INSTARCH\METHODS\LS031317.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS031317.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	109	0.00
2	T	Dichlorodi	0.0100	0.0099	1.00	104	0.00
3	PT	Chloromethan	0.0100	0.0100	0.00	105	0.00
4	CT	VinylChlorid	0.0100	0.0099	1.00	107	0.00
5	T	Bromomethane	0.0100	0.0110	-10.00	126	0.00
6	T	Chloroethane	0.0100	0.0096	4.00	102	0.00
7	T	dichloroflmethane	0.0100	0.0102	-2.00	112	0.00
8	T	Trichlorofma	0.0100	0.0100	0.00	107	0.00
9	T	Ethylether	0.0100	0.0108	-8.00	122	0.00
10	T	dichlorotfluoroethan	0.0100	0.0104	-4.00	111	0.00
11	T	propyleneoxide	0.1000	0.1041	-4.10	122	0.00
12	T	Acrolein	0.0500	0.0495	1.00	113	0.00
13	CT	11dichlorthe	0.0100	0.0099	1.00	108	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0203	-1.50	110	0.00
15	T	Acetone	0.1000	0.1053	-5.30	109	0.00
16	T	Iodomethane	0.0200	0.0194	3.00	121	0.00
17	T	Carbon Dislf	0.0200	0.0204	-2.00	113	0.00
18	T	allylchloride	0.0200	0.0197	1.50	112	0.00
19	T	methylacetate	0.0100	0.0104	-4.00	128	-0.01
20	T	Methylchlorid	0.0100	0.0105	-5.00	103	0.00
21	T	Acrylonitrile	0.0500	0.0496	0.80	108	0.00
22	T	t12dichlorte	0.0100	0.0099	1.00	109	0.00
23	T	tbutylalcohol	0.5000	0.5486	-9.72	127	0.00
24	T	MtBE	0.0100	0.0104	-4.00	115	0.00
25	T	Hexane	0.0200	0.0197	1.50	106	0.00
26	PT	11dichlorota	0.0100	0.0100	0.00	112	0.00
27	T	Vinylacetate	0.1000	0.1008	-0.80	117	0.00
28	T	chloroprene	0.0200	0.0206	-3.00	110	0.00
29	T	Diisopether	0.0100	0.0103	-3.00	111	0.00
30	T	ETBE	0.0100	0.0106	-6.00	117	0.00
31	T	22dichloropr	0.0100	0.0099	1.00	110	0.00
32	T	c12dichlorte	0.0100	0.0096	4.00	106	0.00
33	T	2Butanone	0.1000	0.1053	-5.30	118	0.00
34	T	propionitrile	0.1000	0.1012	-1.20	114	0.00
35	T	Ethylacetate	0.0500	0.0543	-8.60	122	0.00
36	T	methacrylonitrile	0.0200	0.0206	-3.00	113	0.00
37	T	Bromochlorma	0.0100	0.0099	1.00	111	0.00
38	T	Tetrahydofur	0.1000	0.1025	-2.50	114	0.00
39	CT	Chloroform	0.0100	0.0098	2.00	107	0.00
40	T	111trichlota	0.0100	0.0096	4.00	106	0.00
41	S	SURRDibrflma	0.0200	0.0205	-2.50	113	0.00
42	T	Cyclohexane	0.0100	0.0099	1.00	109	0.00
43	T	Carbtetraclo	0.0100	0.0098	2.00	107	0.00
44	T	11dicloprope	0.0100	0.0098	2.00	107	0.00
45	S	SURR12DCAd4	0.0200	0.0191	4.50	99	0.00
46	T	Benzene	0.0100	0.0101	-1.00	109	0.00
47	T	12dichlorota	0.0100	0.0099	1.00	109	0.00
48	T	TAME	0.0100	0.0108	-8.00	118	0.00

49	T	trichloroete	0.0100	0.0099	1.00	112	0.00
50	T	methylcyclohexane	0.0100	0.0101	-1.00	109	0.00
51	CT	12dicloropra	0.0100	0.0097	3.00	110	0.00
52	T	23dicl1propene	0.0100	0.0101	-1.00	110	0.00
53	T	Dibromometha	0.0100	0.0093	7.00	106	0.00
54	T	methylmethacrylate	0.0100	0.0106	-6.00	115	-0.01
55	T	14dioxane	0.5000	0.5361	-7.22	126	0.00
56	T	Bromodiclrma	0.0100	0.0100	0.00	110	0.00
57	T	2Nitropropane	0.1000	0.0912	8.80	121	0.00
58	T	c13dicloproe	0.0100	0.0099	1.00	112	0.00
59	T	4Meth2Pentan	0.1000	0.1069	-6.90	112	0.00
60	S	SURRd8Tolule	0.0200	0.0200	0.00	109	0.00
61	CT	Toluene	0.0100	0.0098	2.00	110	0.00
62	T	t13Dicloprop	0.0100	0.0097	3.00	112	0.00
63	T	ethylmethacrylate	0.0200	0.0214	-7.00	116	0.00
64	T	112Triclotha	0.0100	0.0099	1.00	111	0.00
65	T	Tetrachlorte	0.0100	0.0093	7.00	100	0.00
66	T	13Diclorpropa	0.0100	0.0099	1.00	108	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	108	0.00
68	T	2Hexanone	0.1000	0.1073	-7.30	113	0.00
69	T	Clorodibrmta	0.0100	0.0096	4.00	109	0.00
70	T	12Dibrometha	0.0100	0.0102	-2.00	111	0.00
71	PT	Chlorobenzen	0.0100	0.0099	1.00	108	0.00
72	T	1Clhexane	0.0100	0.0099	1.00	109	0.00
73	T	1112Tetclota	0.0100	0.0101	-1.00	114	0.00
74	CT	Ethylbenzene	0.0100	0.0103	-3.00	110	0.00
75	T	m p-Xylene	0.0200	0.0203	-1.50	110	0.00
76	T	o-Xylene	0.0100	0.0101	-1.00	114	0.00
77	T	Styrene	0.0100	0.0101	-1.00	109	0.00
78	PT	Bromoform	0.0100	0.0098	2.00	112	0.00
79	T	Isopropylben	0.0100	0.0102	-2.00	110	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	108	0.00
81	T	cyclohexanone	0.2000	0.2056	-2.80	125	0.00
82	S	SURR4BrFBenz	0.0200	0.0205	-2.50	113	0.00
83	T	Bromobenzene	0.0100	0.0099	1.00	109	0.00
84	PT	1122Tetrclta	0.0100	0.0099	1.00	110	0.00
85	T	123Triclproa	0.0100	0.0112	-12.00	132	0.00
86	T	14dichloro2butene	0.0100	0.0100	0.00	106	0.00
87	T	n-Propylbenz	0.0100	0.0098	2.00	107	0.00
88	T	2chlorotolue	0.0100	0.0100	0.00	109	0.00
89	T	4chlorotolue	0.0100	0.0100	0.00	110	0.00
90	T	135Trimebenz	0.0100	0.0105	-5.00	113	0.00
91	T	tbutylbenzen	0.0100	0.0104	-4.00	113	0.00
92	T	124Trimetben	0.0100	0.0103	-3.00	113	0.00
93	T	sbutylbenzen	0.0100	0.0102	-2.00	111	0.00
94	T	13Diclorbenz	0.0100	0.0097	3.00	109	0.00
95	T	pIsopropylto	0.0100	0.0099	1.00	107	0.00
96	T	14dichlorobe	0.0100	0.0096	4.00	106	0.00
97	T	12dichlorobe	0.0100	0.0095	5.00	104	0.00
98	T	nButylbenzen	0.0100	0.0096	4.00	108	0.00
99	T	12dibromo3cl	0.0100	0.0100	0.00	106	0.00
100	T	135Trichlorobenzene	0.0100	0.0096	4.00	105	0.00
101	T	124Trichlobe	0.0100	0.0095	5.00	105	0.00
102	T	Hexachlorobu	0.0100	0.0096	4.00	105	0.00
103	T	Naphthalene	0.0100	0.0102	-2.00	109	0.00
104	T	123Trichlben	0.0100	0.0098	2.00	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS031317.M Fri Mar 17 14:03:39 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\ICV1.D Vial: 14
Acq On : 13 Mar 2017 21:26 Operator: RLD-AGK
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: Mar 14 08:34:10 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:33:47 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	1227026	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	951480	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	522687	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	317256	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	66342	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.79	98	1212642	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	445638	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	136636	0.0099	mg/kg	100
3) Chloromethan	2.13	50	193060	0.0100	mg/kg	97
4) VinylChlorid	2.27	62	160127	0.0099	mg/kg	99
5) Bromomethane	2.75	94	90782	0.0110	mg/kg	93
6) Chloroethane	2.91	64	82425	0.0096	mg/kg	97
7) dichloroflmethane	3.23	67	221744	0.0102	mg/kg	97
8) Trichlorofma	3.30	101	169142	0.0100	mg/kg	98
9) Ethylether	3.75	59	125319	0.0108	mg/kg	89
10) dichlorotfluoroethan	3.77	67	135049	0.0104	mg/kg	98
11) propyleneoxide	3.82	58	212326	0.1041	mg/kg	95
12) Acrolein	3.91	56	151125	0.0495	mg/kg	91
13) 11dichlorthe	4.03	96	104238	0.0099	mg/kg	97
14) Trichlorotfluoroeth	4.06	101	217330	0.0203	mg/kg	99
15) Acetone	4.13	43	590409	0.1053	mg/kg	100
16) Iodomethane	4.22	142	178565	0.0194	mg/kg	100
17) Carbon Dislf	4.30	76	663031	0.0204	mg/kg	100
18) allylchloride	4.53	41	475323	0.0197	mg/kg	99
19) methylacetate	4.58	74	27542	0.0104	mg/kg	100
20) Methylchlorid	4.70	84	196201	0.0105	mg/kg	97
21) Acrylonitrile	5.02	53	273356	0.0496	mg/kg	97
22) t12dichlorte	5.06	96	113168	0.0099	mg/kg	99
23) tbutylalcohol	4.90	59	691045	0.5486	mg/kg	98
24) MtBE	5.08	73	320044	0.0104	mg/kg	99
25) Hexane	5.43	57	373749	0.0197	mg/kg	97
26) 11dichlorota	5.60	63	245456	0.0100	mg/kg	99
27) Vinylacetate	5.69	43	2790310	0.1008	mg/kg	98
28) chloroprene	5.72	53	459728	0.0206	mg/kg	99
29) Diisopether	5.72	45	578872	0.0103	mg/kg#	91
30) ETBE	6.17	59	362979	0.0106	mg/kg	99
31) 22dichloropr	6.33	77	143799	0.0099	mg/kg	99
32) c12dichlorte	6.34	96	139585	0.0096	mg/kg	98
33) 2Butanone	6.36	72	140942	0.1053	mg/kg	95
34) propionitrile	6.43	54	221054	0.1012	mg/kg	98
35) Ethylacetate	6.46	88	25264	0.0543	mg/kg#	85
36) methacrylonitrile	6.62	67	101546	0.0206	mg/kg	96
37) Bromochlorma	6.63	128	68278	0.0099	mg/kg	98
38) Tetrahydofur	6.70	42	534107	0.1025	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\ICV1.D Vial: 14
Acq On : 13 Mar 2017 21:26 Operator: RLD-AGK
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: Mar 14 08:34:10 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:33:47 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	217648	0.0098	mg/kg	100
40)	111trichlota	6.96	97	165913	0.0096	mg/kg	97
42)	Cyclohexane	7.04	56	233103	0.0099	mg/kg	99
43)	Carbtetraclo	7.18	119	119581	0.0098	mg/kg	98
44)	11dicloprope	7.17	110	59247	0.0098	mg/kg	96
46)	Benzene	7.43	78	495581	0.0101	mg/kg	98
47)	12dichlorota	7.44	62	189945	0.0099	mg/kg	99
48)	TAME	7.58	73	263143	0.0108	mg/kg	96
49)	trichloroete	8.23	95	129071	0.0099	mg/kg	95
50)	methylcyclohexane	8.48	83	180125	0.0101	mg/kg	100
51)	12dicloropra	8.51	63	145320	0.0097	mg/kg	98
52)	23dicl1propene	8.57	75	188483	0.0101	mg/kg	94
53)	Dibromometha	8.65	93	79544	0.0093	mg/kg	97
54)	methylmethacrylate	8.66	69	82541	0.0106	mg/kg	98
55)	14dioxane	8.69	88	74812	0.5361	mg/kg	93
56)	Bromodiclrma	8.86	83	160120	0.0100	mg/kg	96
57)	2Nitropropane	9.14	43	211109	0.0912	mg/kg	99
58)	c13dicloproe	9.43	75	156285	0.0099	mg/kg	95
59)	4Meth2Pentan	9.63	43	1652169	0.1069	mg/kg	99
61)	Toluene	9.87	92	305886	0.0098	mg/kg	99
62)	t13Dicloprop	10.15	75	121317	0.0097	mg/kg	99
63)	ethylmethacrylate	10.28	69	299824	0.0214	mg/kg	99
64)	112Triclotha	10.39	83	94419	0.0099	mg/kg	95
65)	Tetrachlorte	10.60	166	129746	0.0093	mg/kg	96
66)	13Diclorpropa	10.61	76	186935	0.0099	mg/kg	99
68)	2Hexanone	10.72	43	1171024	0.1073	mg/kg	98
69)	Clorodibrmta	10.92	129	116895	0.0096	mg/kg	96
70)	12Dibrometha	11.08	107	114321	0.0102	mg/kg	100
71)	Chlorobenzen	11.75	112	348541	0.0099	mg/kg	100
72)	1Clhexane	11.71	91	152478	0.0099	mg/kg	99
73)	1112Tetclota	11.86	131	114218	0.0101	mg/kg	99
74)	Ethylbenzene	11.90	91	578688	0.0103	mg/kg	100
75)	m p-Xylene	12.06	106	444308	0.0203	mg/kg	99
76)	o-Xylene	12.62	106	218484	0.0101	mg/kg	99
77)	Styrene	12.63	104	370031	0.0101	mg/kg	100
78)	Bromoform	12.88	173	79527	0.0098	mg/kg	98
79)	Isopropylben	13.14	105	546663	0.0102	mg/kg	100
81)	cyclohexanone	13.25	55	84368	0.2056	mg/kg	98
83)	Bromobenzene	13.56	156	164473	0.0099	mg/kg	99
84)	1122Tetrclta	13.55	83	145890	0.0099	mg/kg	96
85)	123Triclproa	13.61	75	162880	0.0112	mg/kg	89
86)	14dichloro2butene	13.64	53	27728	0.0100	mg/kg	85
87)	n-Propylbenz	13.73	91	646178	0.0098	mg/kg	98
88)	2chlorotolue	13.84	91	391776	0.0100	mg/kg	99
89)	4chlorotolue	14.00	91	454739	0.0100	mg/kg	98
90)	135Trimebenz	13.98	105	486706	0.0105	mg/kg	100
91)	tbutylbenzen	14.45	119	418212	0.0104	mg/kg	99
92)	124Trimetben	14.53	105	495107	0.0103	mg/kg	98
93)	sbutylbenzen	14.77	105	612700	0.0102	mg/kg	98
94)	13Diclorbenz	14.93	146	293239	0.0097	mg/kg	98
95)	pIsopropylto	14.99	119	510232	0.0099	mg/kg	99
96)	14dichlorobe	15.05	146	297783	0.0096	mg/kg	98
97)	12dichlorobe	15.60	146	283679	0.0095	mg/kg	98
98)	nButylbenzen	15.58	91	452982	0.0096	mg/kg	99
99)	12dibromo3cl	16.70	157	27128	0.0100	mg/kg	92
100)	135Trichlorobenzene	17.01	180	209619	0.0096	mg/kg	98
101)	124Trichlobe	17.82	180	190950	0.0095	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\ICV1.D Vial: 14
Acq On : 13 Mar 2017 21:26 Operator: RLD-AGK
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: Mar 14 08:34:10 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:33:47 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	111022	0.0096 mg/kg	96
103) Naphthalene	18.13	128	451810	0.0102 mg/kg	99
104) 123Trichlben	18.44	180	191731	0.0098 mg/kg	99

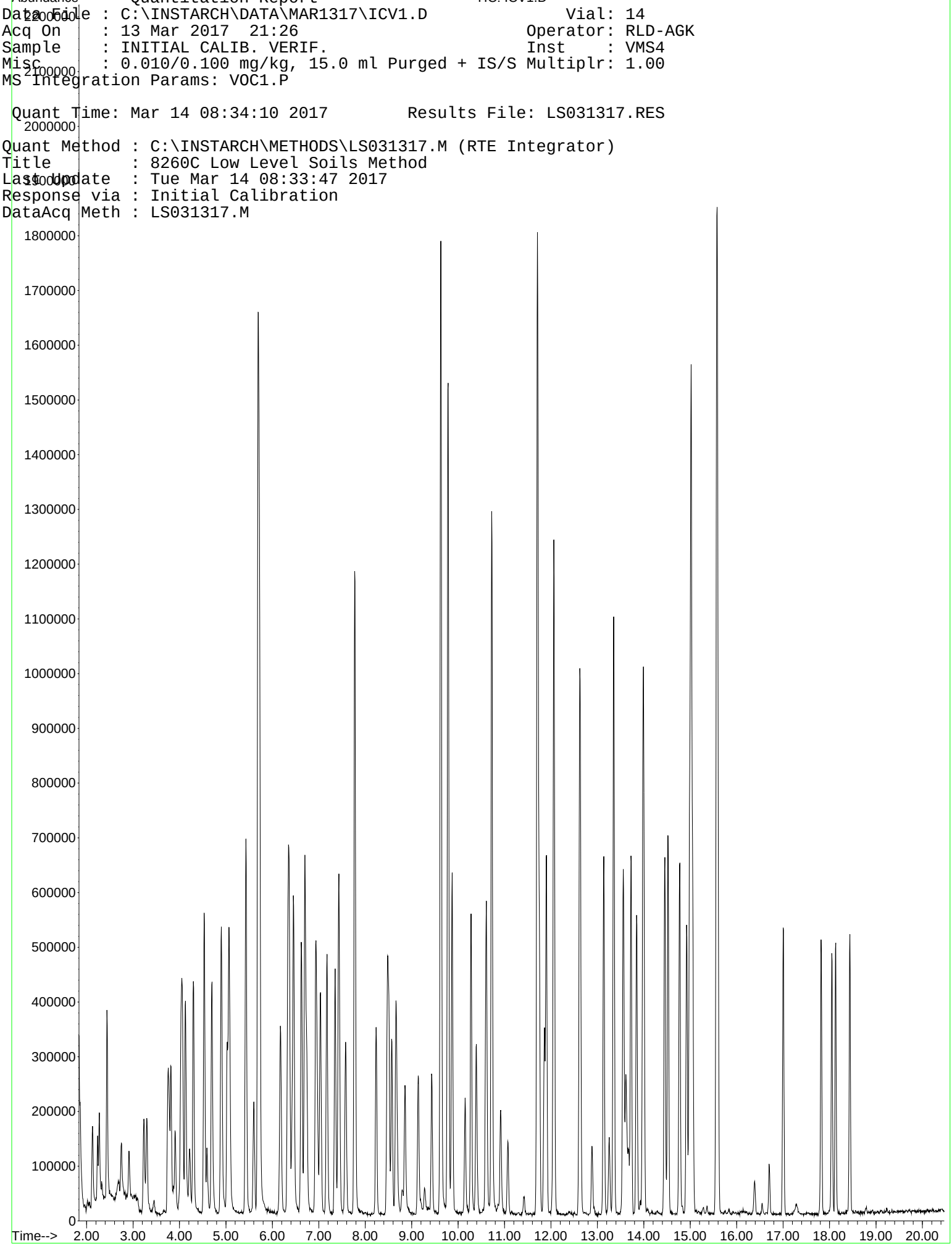
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\ICV1.D Vial: 14
Acq On : 13 Mar 2017 21:26 Operator: RLD-AGK
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: Mar 14 08:34:10 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:33:47 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\MAR1317\ICV2.D Vial: 15
Acq On : 13 Mar 2017 21:55 Operator: RLD-AGK
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: Mar 13 22:16:26 2017

Quant Method : C:\INSTARCH\METHODS\LS031317.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS031317.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	0.0192	36.00#	95	0.00
3	PT	Chloromethan	0.0300	0.0217	27.67#	96	-0.01
4	CT	VinylChlorid	0.0300	0.0222	26.00#	97	0.00
5	T	Bromomethane	0.0300	0.0247	17.67	97	0.00
6	T	Chloroethane	0.0300	0.0224	25.33#	99	0.00
7	T	dichloroflmethane	0.0300	0.0247	17.67	99	0.00
8	T	Trichlorofma	0.0300	0.0237	21.00#	95	0.00
9	T	Ethylether	0.0300	0.0324	-8.00	102	0.00
10	T	dichlorotfluoroethan	0.0300	0.0245	18.33	101	0.00
11	T	propyleneoxide	0.3000	0.3706	-23.53#	111	0.00
12	T	Acrolein	0.1500	0.1573	-4.87	107	0.00
13	CT	11dichlorthe	0.0300	0.0248	17.33	96	0.00
14	T	Trichlorotfluoroeth	0.0600	0.0535	10.83	97	0.00
15	T	Acetone	0.3000	0.3092	-3.07	107	0.00
16	T	Iodomethane	0.0600	0.0578	3.67	95	0.00
17	T	Carbon Dislf	0.0600	0.0544	9.33	99	0.00
18	T	allylchloride	0.0600	0.0533	11.17	101	0.00
19	T	methylacetate	0.0300	0.0299	0.33	105	0.00
20	T	Methylchlorid	0.0300	0.0229	23.67#	100	0.00
21	T	Acrylonitrile	0.1500	0.1645	-9.67	107	0.00
22	T	t12dichlorte	0.0300	0.0241	19.67	96	0.00
23	T	tbutylalcohol	1.5000	1.7444	-16.29	112	0.00
24	T	MtBE	0.0300	0.0329	-9.67	104	0.00
25	T	Hexane	0.0600	0.0542	9.67	98	0.00
26	PT	11dichlorota	0.0300	0.0243	19.00	97	0.00
27	T	Vinylacetate	0.3000	0.3675	-22.50#	105	0.00
28	T	chloroprene	0.0600	0.0520	13.33	100	0.00
29	T	Diisopether	0.0300	0.0302	-0.67	102	0.00
30	T	ETBE	0.0300	0.0350	-16.67	105	0.00
31	T	22dichloropr	0.0300	0.0270	10.00	101	0.00
32	T	c12dichlorte	0.0300	0.0253	15.67	98	0.00
33	T	2Butanone	0.3000	0.3339	-11.30	108	0.00
34	T	propionitrile	0.3000	0.3047	-1.57	106	0.00
35	T	Ethylacetate	0.1500	0.1713	-14.20	103	0.00
36	T	methacrylonitrile	0.0600	0.0615	-2.50	104	0.00
37	T	Bromochlorma	0.0300	0.0256	14.67	96	0.00
38	T	Tetrahydofur	0.3000	0.3207	-6.90	107	0.00
39	CT	Chloroform	0.0300	0.0256	14.67	99	0.00
40	T	111trichlota	0.0300	0.0257	14.33	97	0.00
41	S	SURRDibrflma	0.0200	0.0196	2.00	104	0.00
42	T	Cyclohexane	0.0300	0.0275	8.33	96	0.00
43	T	Carbtetraclo	0.0300	0.0255	15.00	96	0.00
44	T	11dicloprope	0.0300	0.0258	14.00	97	0.00
45	S	SURR12DCAd4	0.0200	0.0201	-0.50	109	0.00
46	T	Benzene	0.0300	0.0251	16.33	99	0.00
47	T	12dichlorota	0.0300	0.0267	11.00	101	0.00
48	T	TAME	0.0300	0.0389	-29.67#	111	0.00

49	T	trichloroete	0.0300	0.0241	19.67	98	0.00
50	T	methylcyclohexane	0.0300	0.0261	13.00	98	0.00
51	CT	12dicloropra	0.0300	0.0261	13.00	101	0.00
52	T	23dicl1propene	0.0300	0.0289	3.67	99	0.00
53	T	Dibromometha	0.0300	0.0271	9.67	99	0.00
54	T	methylmethacrylate	0.0300	0.0327	-9.00	106	0.00
55	T	14dioxane	1.5000	1.5631	-4.21	107	0.00
56	T	Bromodiclrma	0.0300	0.0274	8.67	98	0.00
57	T	2Nitropropane	0.3000	0.3027	-0.90	101	0.00
58	T	c13dicloproe	0.0300	0.0307	-2.33	99	0.00
59	T	4Meth2Pentan	0.3000	0.3148	-4.93	104	0.00
60	S	SURRd8Tolule	0.0200	0.0196	2.00	106	0.00
61	CT	Toluene	0.0300	0.0251	16.33	97	0.00
62	T	t13Dicloprop	0.0300	0.0324	-8.00	102	0.00
63	T	ethylmethacrylate	0.0600	0.0648	-8.00	106	0.00
64	T	112Triclotha	0.0300	0.0270	10.00	99	0.00
65	T	Tetrachlorte	0.0300	0.0246	18.00	96	0.00
66	T	13Diclorpropa	0.0300	0.0271	9.67	100	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	104	0.00
68	T	2Hexanone	0.3000	0.3282	-9.40	105	0.00
69	T	Clorodibrmta	0.0300	0.0288	4.00	101	0.00
70	T	12Dibrometha	0.0300	0.0292	2.67	102	0.00
71	PT	Chlorobenzen	0.0300	0.0245	18.33	99	0.00
72	T	1Clhexane	0.0300	0.0271	9.67	97	0.00
73	T	1112Tetclota	0.0300	0.0268	10.67	99	0.00
74	CT	Ethylbenzene	0.0300	0.0256	14.67	97	0.00
75	T	m p-Xylene	0.0600	0.0510	15.00	95	0.00
76	T	o-Xylene	0.0300	0.0264	12.00	97	0.00
77	T	Styrene	0.0300	0.0268	10.67	97	0.00
78	PT	Bromoform	0.0300	0.0294	2.00	100	0.00
79	T	Isopropylben	0.0300	0.0261	13.00	96	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	106	0.00
81	T	cyclohexanone	0.6000	0.7056	-17.60	104	0.00
82	S	SURR4BrFBenz	0.0200	0.0205	-2.50	106	0.00
83	T	Bromobenzene	0.0300	0.0263	12.33	100	0.00
84	PT	1122Tetrclta	0.0300	0.0288	4.00	103	0.00
85	T	123Triclproa	0.0300	0.0332	-10.67	102	0.00
86	T	14dichloro2butene	0.0300	0.0358	-19.33	111	-0.01
87	T	n-Propylbenz	0.0300	0.0254	15.33	94	0.00
88	T	2chlorotolue	0.0300	0.0257	14.33	96	0.00
89	T	4chlorotolue	0.0300	0.0258	14.00	95	0.00
90	T	135Trimebenz	0.0300	0.0262	12.67	93	0.00
91	T	tbutylbenzen	0.0300	0.0263	12.33	96	0.00
92	T	124Trimetben	0.0300	0.0270	10.00	95	0.00
93	T	sbutylbenzen	0.0300	0.0256	14.67	94	0.00
94	T	13Diclorbenz	0.0300	0.0251	16.33	95	0.00
95	T	pIsopropylto	0.0300	0.0257	14.33	92	0.00
96	T	14dichlorobe	0.0300	0.0250	16.67	94	0.00
97	T	12dichlorobe	0.0300	0.0252	16.00	94	0.00
98	T	nButylbenzen	0.0300	0.0256	14.67	92	0.00
99	T	12dibromo3cl	0.0300	0.0311	-3.67	105	0.00
100	T	135Trichlorobenzene	0.0300	0.0267	11.00	91	0.00
101	T	124Trichlobe	0.0300	0.0267	11.00	93	0.00
102	T	Hexachlorobu	0.0300	0.0245	18.33	91	0.00
103	T	Naphthalene	0.0300	0.0319	-6.33	100	0.00
104	T	123Trichlben	0.0300	0.0268	10.67	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

LS031317.M Fri Mar 17 14:04:11 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\ICV2.D Vial: 15
Acq On : 13 Mar 2017 21:55 Operator: RLD-AGK
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: Mar 13 22:16:26 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Feb 22 11:59:32 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	1257284	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	974745	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	534936	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	319015	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	72796	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1232206	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	452474	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	346960	0.0192	mg/kg	100
3) Chloromethan	2.12	50	496414	0.0217	mg/kg	99
4) VinylChlorid	2.27	62	425056	0.0222	mg/kg	97
5) Bromomethane	2.75	94	234994	0.0247	mg/kg	97
6) Chloroethane	2.92	64	230981	0.0224	mg/kg	96
7) dichloroflmethane	3.23	67	600327	0.0247	mg/kg	98
8) Trichlorofma	3.30	101	455674	0.0237	mg/kg	97
9) Ethylether	3.75	59	360355	0.0324	mg/kg	96
10) dichlorotfluoroethan	3.78	67	359868	0.0245	mg/kg	95
11) propyleneoxide	3.82	58	663414	0.3706	mg/kg	97
12) Acrolein	3.91	56	462947	0.1573	mg/kg#	78
13) 11dichlorthe	4.03	96	282733	0.0248	mg/kg	94
14) Trichlorotfluoroeth	4.06	101	576538	0.0535	mg/kg	98
15) Acetone	4.13	43	1559454	0.3092	mg/kg	100
16) Iodomethane	4.22	142	593552	0.0578	mg/kg	98
17) Carbon Dislf	4.30	76	1799174	0.0544	mg/kg	99
18) allylchloride	4.54	41	1326060	0.0533	mg/kg	98
19) methylacetate	4.60	74	80888	0.0299	mg/kg	98
20) Methylchlorid	4.70	84	419278	0.0229	mg/kg	97
21) Acrylonitrile	5.03	53	838745	0.1645	mg/kg	97
22) t12dichlorte	5.07	96	307137	0.0241	mg/kg	97
23) tbutylalcohol	4.90	59	2100565	1.7444	mg/kg	93
24) MtBE	5.08	73	938418	0.0329	mg/kg	98
25) Hexane	5.44	57	1018627	0.0542	mg/kg	97
26) 11dichlorota	5.60	63	661549	0.0243	mg/kg	98
27) Vinylacetate	5.69	43	8315029	0.3675	mg/kg	97
28) chloroprene	5.72	53	1262065	0.0520	mg/kg	98
29) Diisopether	5.72	45	1677198	0.0302	mg/kg#	57
30) ETBE	6.18	59	1084881	0.0350	mg/kg	99
31) 22dichloropr	6.34	77	419340	0.0270	mg/kg	99
32) c12dichlorte	6.34	96	401800	0.0253	mg/kg	97
33) 2Butanone	6.37	72	425179	0.3339	mg/kg	98
34) propionitrile	6.43	54	641504	0.3047	mg/kg	99
35) Ethylacetate	6.46	88	68982	0.1713	mg/kg#	81
36) methacrylonitrile	6.62	67	301827	0.0615	mg/kg	98
37) Bromochlorma	6.63	128	188427	0.0256	mg/kg	96
38) Tetrahydofur	6.70	42	1564095	0.3207	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\ICV2.D Vial: 15
Acq On : 13 Mar 2017 21:55 Operator: RLD-AGK
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: Mar 13 22:16:26 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Feb 22 11:59:32 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	614393	0.0256	mg/kg	99
40)	111trichlota	6.97	97	485255	0.0257	mg/kg	97
42)	Cyclohexane	7.04	56	646580	0.0275	mg/kg	99
43)	Carbtetraclo	7.18	119	360674	0.0255	mg/kg	99
44)	11dicloprope	7.18	110	165593	0.0258	mg/kg	93
46)	Benzene	7.43	78	1360105	0.0251	mg/kg	99
47)	12dichlorota	7.45	62	552692	0.0267	mg/kg	97
48)	TAME	7.58	73	829513	0.0389	mg/kg	91
49)	trichloroete	8.24	95	351913	0.0241	mg/kg	97
50)	methylcyclohexane	8.48	83	507251	0.0261	mg/kg	100
51)	12dicloropra	8.51	63	433177	0.0261	mg/kg	100
52)	23dicl1propene	8.58	75	552455	0.0289	mg/kg	98
53)	Dibromometha	8.66	93	241516	0.0271	mg/kg	97
54)	methylmethacrylate	8.67	69	248896	0.0327	mg/kg	98
55)	14dioxane	8.69	88	217876	1.5631	mg/kg	95
56)	Bromodiclrma	8.86	83	474837	0.0274	mg/kg	98
57)	2Nitropropane	9.14	43	896059	0.3027	mg/kg	98
58)	c13dicloproe	9.43	75	497128	0.0307	mg/kg	98
59)	4Meth2Pentan	9.63	43	4650115	0.3148	mg/kg	97
61)	Toluene	9.87	92	845025	0.0251	mg/kg	97
62)	t13Dicloprop	10.15	75	407523	0.0324	mg/kg	98
63)	ethylmethacrylate	10.28	69	933525	0.0648	mg/kg	96
64)	112Triclotha	10.39	83	276473	0.0270	mg/kg	99
65)	Tetrachlorte	10.60	166	371380	0.0246	mg/kg	97
66)	13Diclorpropa	10.61	76	549077	0.0271	mg/kg	98
68)	2Hexanone	10.72	43	3416322	0.3282	mg/kg	99
69)	Clorodibrmta	10.92	129	377685	0.0288	mg/kg	98
70)	12Dibrometha	11.08	107	343236	0.0292	mg/kg	97
71)	Chlorobenzen	11.75	112	970107	0.0245	mg/kg	99
72)	1Clhexane	11.71	91	425772	0.0271	mg/kg	96
73)	1112Tetclota	11.86	131	343319	0.0268	mg/kg	97
74)	Ethylbenzene	11.90	91	1571429	0.0256	mg/kg	100
75)	m p-Xylene	12.06	106	1200261	0.0510	mg/kg	99
76)	o-Xylene	12.62	106	612196	0.0264	mg/kg	99
77)	Styrene	12.63	104	1062539	0.0268	mg/kg	99
78)	Bromoform	12.89	173	255113	0.0294	mg/kg	98
79)	Isopropylben	13.14	105	1515991	0.0261	mg/kg	99
81)	cyclohexanone	13.25	55	272748	0.7056	mg/kg	100
83)	Bromobenzene	13.56	156	478837	0.0263	mg/kg	99
84)	1122Tetrclta	13.55	83	453221	0.0288	mg/kg	98
85)	123Triclproa	13.61	75	492298	0.0332	mg/kg	89
86)	14dichloro2butene	13.63	53	98935	0.0358	mg/kg	92
87)	n-Propylbenz	13.72	91	1776095	0.0254	mg/kg	97
88)	2chlorotolue	13.84	91	1092395	0.0257	mg/kg	98
89)	4chlorotolue	14.00	91	1260924	0.0258	mg/kg	97
90)	135Trimebenz	13.98	105	1292296	0.0262	mg/kg	99
91)	tbutylbenzen	14.45	119	1153287	0.0263	mg/kg	99
92)	124Trimetben	14.52	105	1324580	0.0270	mg/kg	99
93)	sbutylbenzen	14.77	105	1649985	0.0256	mg/kg	98
94)	13Diclorbenz	14.92	146	819707	0.0251	mg/kg	99
95)	pIsopropylto	14.98	119	1398512	0.0257	mg/kg	100
96)	14dichlorobe	15.05	146	837526	0.0250	mg/kg	100
97)	12dichlorobe	15.60	146	811886	0.0252	mg/kg	100
98)	nButylbenzen	15.58	91	1244112	0.0256	mg/kg	99
99)	12dibromo3cl	16.70	157	90810	0.0311	mg/kg	99
100)	135Trichlorobenzene	17.01	180	584807	0.0267	mg/kg	98
101)	124Trichlobe	17.82	180	549543	0.0267	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1317\ICV2.D Vial: 15
Acq On : 13 Mar 2017 21:55 Operator: RLD-AGK
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: Mar 13 22:16:26 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Feb 22 11:59:32 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	303176	0.0245	mg/kg	99
103) Naphthalene	18.13	128	1357800	0.0319	mg/kg	99
104) 123Trichlben	18.44	180	543007	0.0268	mg/kg	98

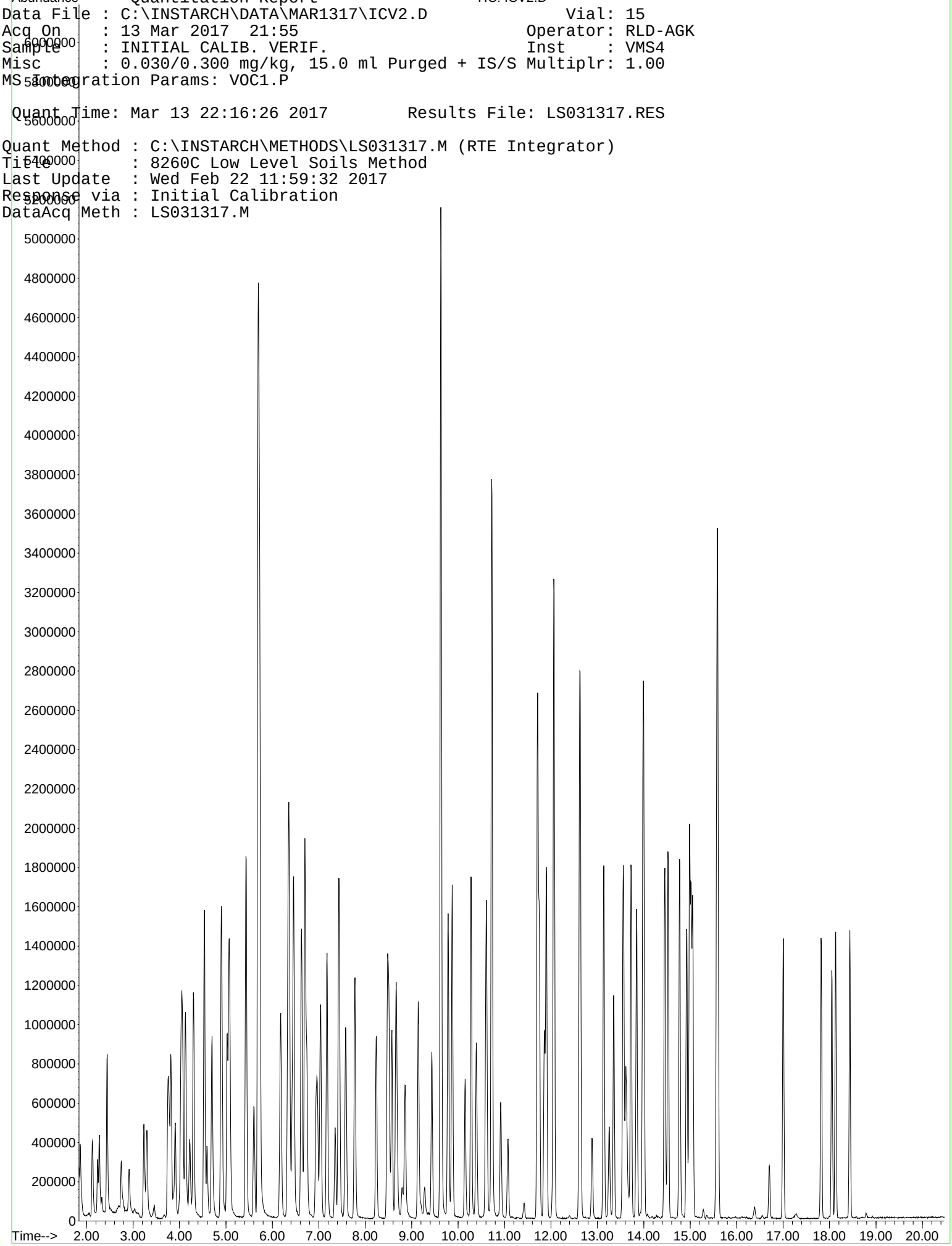
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICV2.D

Data File : C:\INSTARCH\DATA\MAR1317\ICV2.D Vial: 15
Acq On : 13 Mar 2017 21:55 Operator: RLD-AGK
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: Mar 13 22:16:26 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Wed Feb 22 11:59:32 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\Instarch\Data\MAR1317\ICB1.D Vial: 17
Acq On : 13 Mar 2017 22:53 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 08:35:45 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:35:06 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	1141392	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	936357	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	490457	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	251954	0.017	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 85 %			
45) SURR12DCAd4	7.35	102	68786	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.79	98	1164622	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	417447	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.12	50	2751	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	6771	0.0009	mg/kg#	21
6) Chloroethane	2.84	64	1784	N.D.		
7) dichloroflmethane	3.22	67	1149	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	3.92	56	1722	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	25985	N.D.		
16) Iodomethane	4.24	142	4659	0.0020	mg/kg#	77
17) Carbon Dislf	4.29	76	6067	N.D.		
18) allylchloride	4.52	41	13243	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	10159	Below	Cal	92
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.93	59	1631	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	11242	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	6.46	54	1215	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	6.71	42	4935	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1317\ICB1.D Vial: 17
Acq On : 13 Mar 2017 22:53 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 08:35:45 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:35:06 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.41	78	1934	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	9.03	43	1168	0.0149 mg/kg#	14
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.63	43	5785	N.D.	
61)	Toluene	9.88	92	12929	0.0004 mg/kg	97
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	10.73	43	8514	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	11.71	91	2634	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.91	91	1421	N.D.	
75)	m p-Xylene	12.07	106	1875	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	12.63	104	1051	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.36	55	1748	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	1395	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.73	91	1314	N.D.	
88)	2chlorotolue	0.00	91	0	N.D.	
89)	4chlorotolue	14.00	91	1593	N.D.	
90)	135Trimebenz	13.99	105	1160	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.53	105	2309	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	14.95	146	1719	N.D.	
95)	pIsopropylto	14.99	119	2542	N.D.	
96)	14dichlorobe	15.04	146	2463	N.D.	
97)	12dichlorobe	15.59	146	2435	N.D.	
98)	nButylbenzen	15.56	91	3222	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	17.00	180	1005	N.D.	
101)	124Trichlobe	17.82	180	2578	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1317\ICB1.D Vial: 17
Acq On : 13 Mar 2017 22:53 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 08:35:45 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:35:06 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	10143	N.D.	
104) 123Trichlben	18.44	180	2305	N.D.	

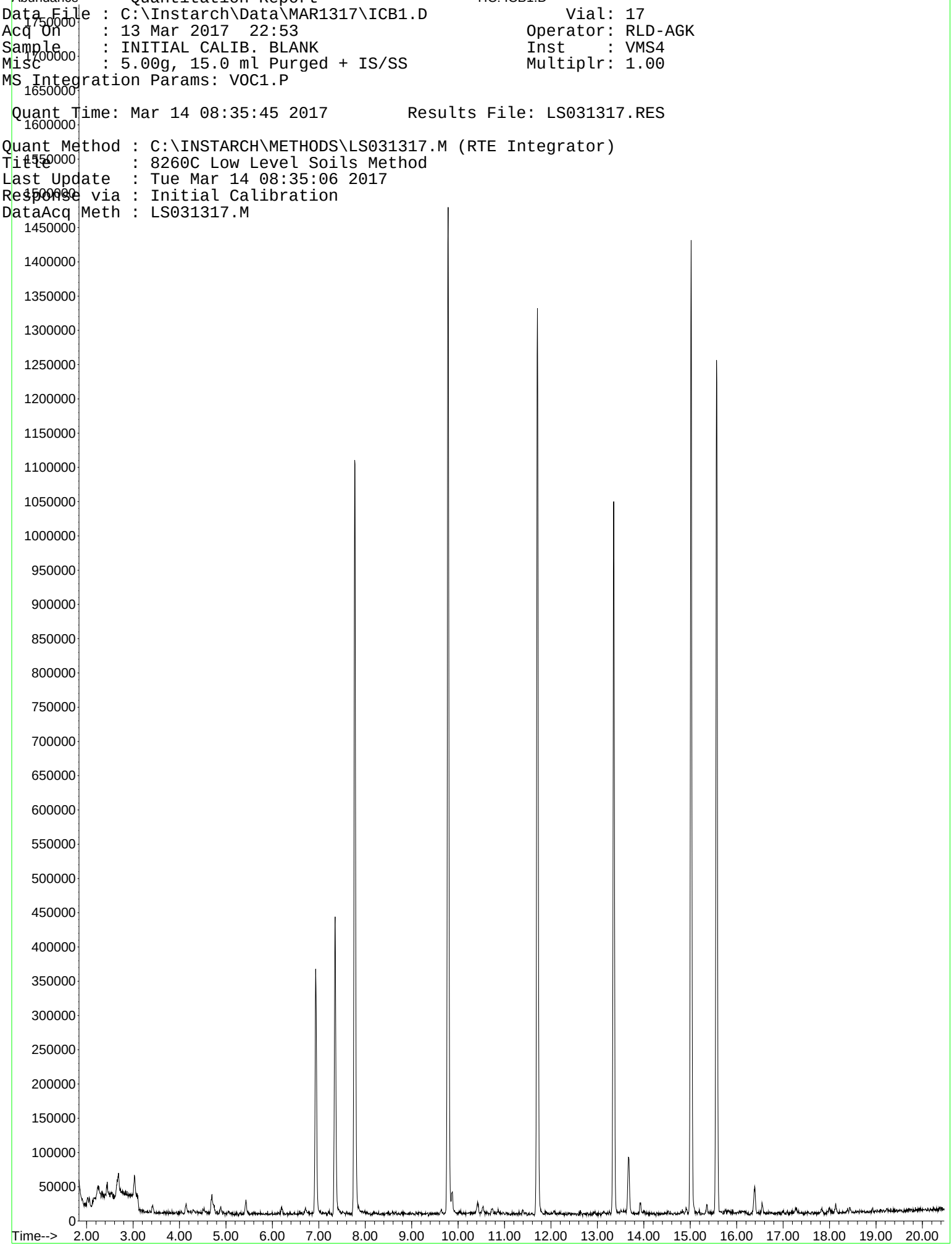
(#) = qualifier out of range (m) = manual integration

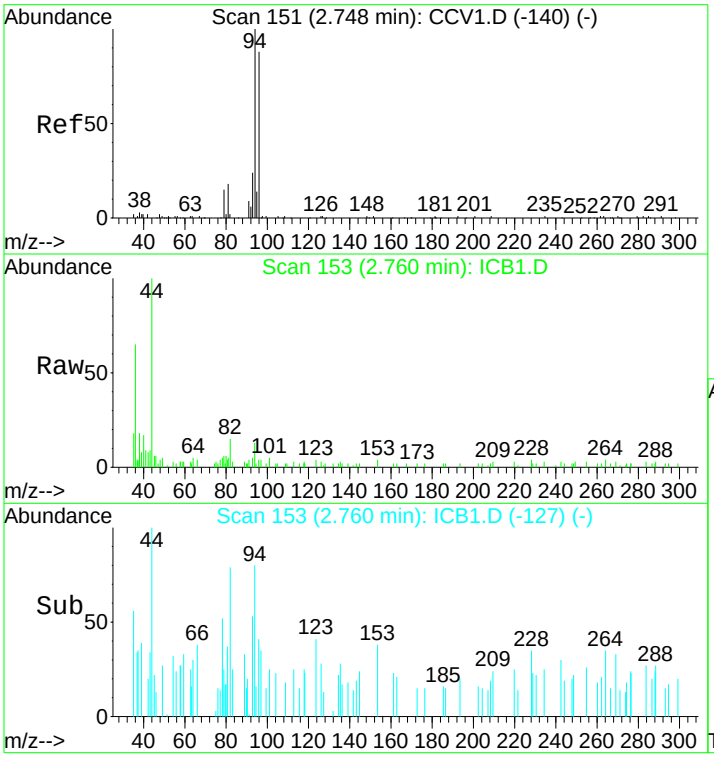
Abundance Quantitation Report TIC: ICB1.D

Data File : C:\Instarch\Data\MAR1317\ICB1.D Vial: 17
Acq On : 13 Mar 2017 22:53 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 08:35:45 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 08:35:06 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

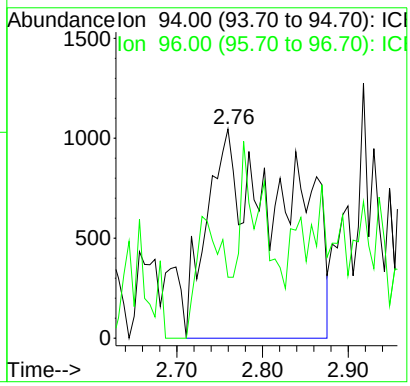


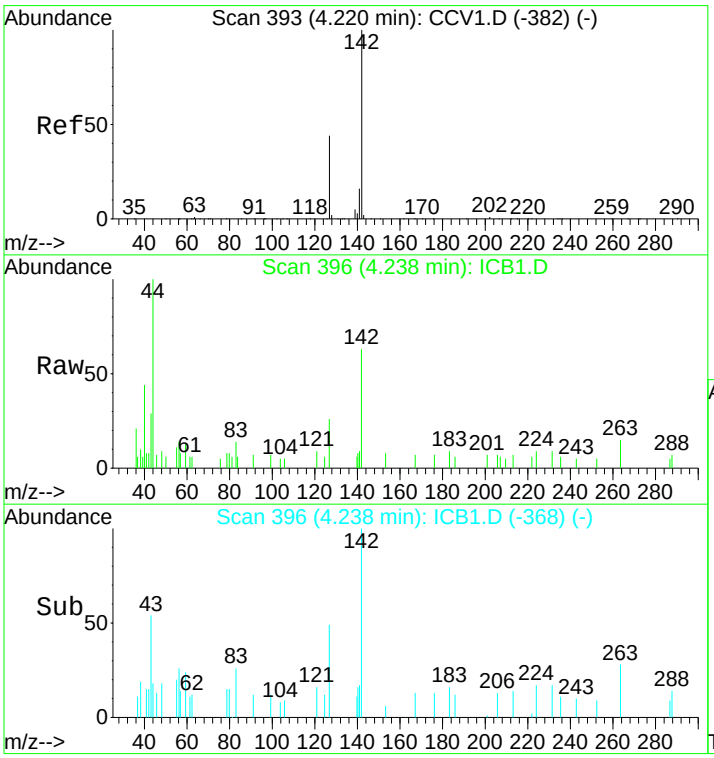


#5
Bromomethane
Concen: 0.00 mg/kg
RT: 2.76 min Scan# 153
Delta R.T. 0.01 min
Lab File: ICB1.D
Acq: 13 Mar 2017 22:53

Tgt Ion: 94 Resp: 6771

Ion	Ratio	Lower	Upper
94	100		
96	19.3	76.9	116.9#

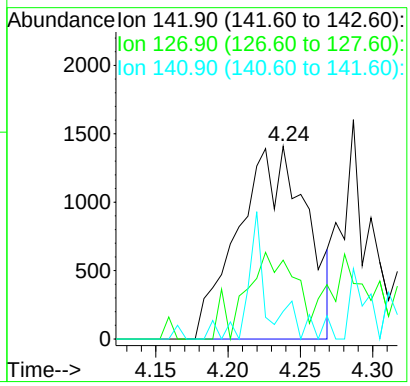


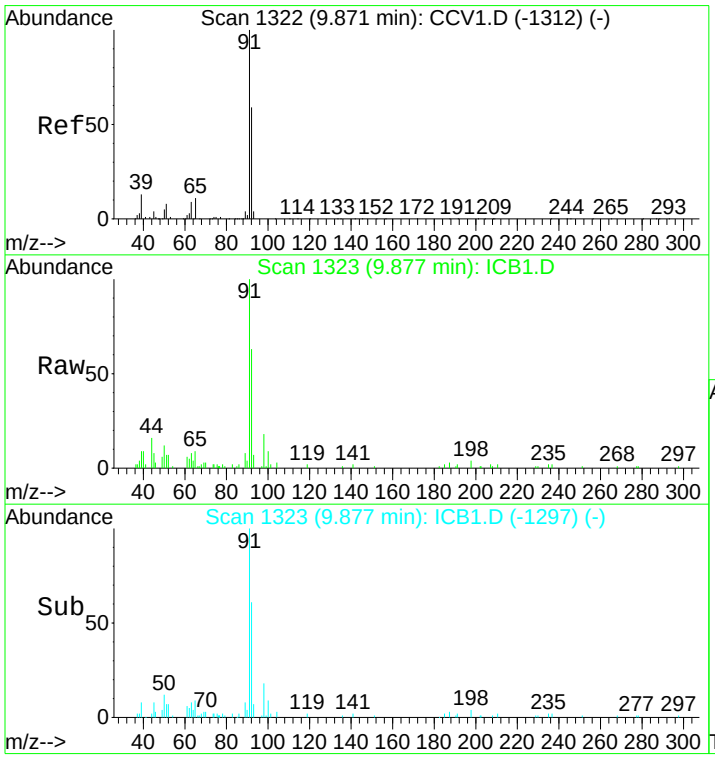


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.24 min Scan# 396
Delta R.T. 0.02 min
Lab File: ICB1.D
Acq: 13 Mar 2017 22:53

Tgt Ion:142 Resp: 4659

Ion	Ratio	Lower	Upper
142	100		
127	29.9	20.7	60.7
141	0.0	0.0	35.3

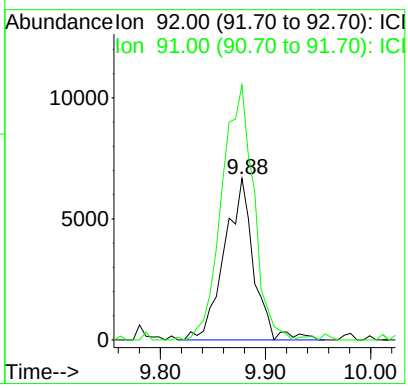




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.88 min Scan# 1323
Delta R.T. 0.01 min
Lab File: ICB1.D
Acq: 13 Mar 2017 22:53

Tgt Ion: 92 Resp: 12929

Ion	Ratio	Lower	Upper
92	100		
91	171.4	147.7	187.7



Method Path : C:\INSTARCH\METHODS\
Method File : LW031517.M
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response Via : Initial Calibration

RJ 03/17/2017

Calibration Files ug/L
1 0.100/1.00 =LLCALW1.D 2 0.500/5.00 =LLCALW2.D 3 1.00/10.00 =LLCALW3.D
4 2.00/20.00 =LLCALW4.D 5 4.00/40.00 =LLCALW5.D 6 6.00/60.00 =LLCALW6.D
7 8.00/80.00 =LLCALW7.D 8 16.00/160 =LLCALW8.D

		Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1)	I	FLUOROBENZENE**ISTD**	----------ISTD----------									
2)	PT	Dichlorodi	0.370	0.320	0.340	0.305	0.307	0.303	0.294	0.318		8.02
3)	PT	Chloromethan	0.479	0.497	0.475	0.431	0.410	0.405	0.396	0.437		9.31
4)	PT	VinylChlorid	0.388	0.387	0.368	0.342	0.337	0.336	0.326	0.352		7.12
5)	PT	Bromomethane	0.142	0.185	0.174	0.148	0.137	0.152	0.157	0.158		10.52
6)	PT	Chloroethane	0.223	0.209	0.200	0.179	0.175	0.176	0.169	0.188		10.69
7)	T	Dichloroflmetha	0.489	0.491	0.471	0.446	0.416	0.433	0.419	0.449		6.84
8)	PT	Trichlorofma	0.399	0.417	0.415	0.375	0.359	0.369	0.358	0.382		6.36
9)	T	Ethylether	0.181	0.206	0.190	0.184	0.173	0.180	0.176	0.185		5.64
10)	T	dichlorotfluoro	0.268	0.307	0.283	0.266	0.256	0.260	0.259	0.270		6.28
11)	T	propyleneoxide	0.027	0.028	0.025	0.027	0.028	0.026	0.024	0.026#		5.29
12)	T	Acrolein	0.035	0.034	0.033	0.034	0.035	0.032	0.031	0.033		3.77
13)	PT	11dichlorthe	0.222	0.248	0.240	0.216	0.200	0.217	0.217	0.223		6.66
14)	PT	Trichlorotfluor	0.247	0.243	0.243	0.217	0.201	0.216	0.215	0.225		7.38
15)	PT	Acetone	0.097	0.069	0.058	0.056	0.053	0.047	0.045	-----	#	
			0.042									
								Q	A= -0.000 R=0.999			
									B= 0.048			
									C= 0.030			
16)	T	Iodomethane	0.163	0.161	0.177	0.207	0.210	0.239	0.246	-----		
			0.267									
								Q	A= 0.006 R=1.000			
									B= 0.224			
									C= -0.019			
17)	PT	Carbon Dislf	0.566	0.563	0.557	0.525	0.481	0.507	0.497	0.525		6.36
			0.500									
18)	T	allylchloride	0.487	0.487	0.473	0.455	0.492	0.442	0.441	0.463		5.52
			0.424									
19)	PT	methylacetate	0.016	0.021	0.019	0.021	0.022	0.020	0.020	0.020#		9.63
			0.020									
20)	PT	Methylchlorid	0.838	0.468	0.394	0.310	0.242	0.260	0.245	-----		
			0.248									
								Q	A= 0.003 R=0.999			
									B= 0.226			
									C= 0.029			
21)	T	tbutylalcohol	0.011	0.011	0.011	0.012	0.015	0.012	0.011	0.012#		12.45
			0.012									
22)	T	Acrylonitrile	0.062	0.062	0.056	0.059	0.060	0.056	0.053	0.058		6.13
			0.054									

23)	PT	t12dichlorte	0.265	0.265	0.239	0.232	0.195	0.225	0.222	0.234	9.80
			0.230								
24)	PT	MtBE	0.510	0.506	0.487	0.477	0.470	0.477	0.463	0.484	3.37
			0.483								
25)	T	Hexane	0.340	0.400	0.407	0.380	0.389	0.387	0.373	0.382	5.29
			0.383								
26)	PT	11dichlorota	0.571	0.551	0.553	0.510	0.474	0.486	0.484	0.515	7.36
			0.489								
27)	T	Vinylacetate	0.202	0.306	0.331	0.392	0.425	0.394	0.363	-----	
								QO A= -0.004 R=0.998			
								B= 0.443			
28)	T	chloroprene	0.443	0.477	0.491	0.465	0.463	0.453	0.447	0.460	3.93
			0.437								
29)	T	Diisopether	1.104	1.156	1.150	1.099	1.063	1.057	1.044	1.085	4.82
			1.005								
30)	T	ETBE	0.725	0.719	0.703	0.714	0.685	0.701	0.698	0.707	1.83
			0.712								
31)	T	22dichloropr	0.311	0.324	0.311	0.305	0.284	0.308	0.308	0.310	4.27
			0.327								
32)	PT	c12dichlorte	0.330	0.314	0.295	0.285	0.267	0.274	0.271	0.289	7.78
			0.277								
33)	PT	2Butanone	0.016	0.015	0.014	0.015	0.014	0.013	0.013	0.014#	7.83
			0.013								
34)	T	propionitrile	0.021	0.021	0.021	0.021	0.021	0.019	0.018	0.020#	5.47
			0.019								
35)	T	Ethylacetate	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005#	7.48
			0.005								
36)	T	methacrylonitri	0.046	0.060	0.051	0.055	0.059	0.054	0.053	0.054	8.27
			0.055								
37)	T	Bromochlorma	0.154	0.120	0.123	0.121	0.114	0.115	0.110	0.121	11.68
			0.111								
38)	T	Tetrahydofur	0.071	0.059	0.053	0.057	0.056	0.054	0.050	0.057	11.69
			0.051								
39)	PT	Chloroform	0.533	0.505	0.490	0.462	0.436	0.437	0.436	0.468	7.94
			0.444								
40)	PT	111trichlota	0.352	0.399	0.381	0.368	0.363	0.372	0.374	0.375	3.97
			0.390								
41)	S	SURRDibrflma	0.244	0.249	0.249	0.249	0.254	0.252	0.256	0.252	2.03
			0.260								
42)	PT	Cyclohexane	0.489	0.540	0.516	0.476	0.487	0.481	0.473	0.494	4.60
			0.490								
43)	PT	Carbtetraclo	0.225	0.207	0.228	0.246	0.247	0.276	0.284	0.253	13.99
			0.314								
44)	T	11dicloprope	0.130	0.137	0.127	0.119	0.122	0.120	0.119	0.125	5.01
			0.129								
45)	S	SURR12DCAd4	0.053	0.054	0.050	0.054	0.054	0.054	0.050	0.052	4.33
			0.049								
46)	PT	Benzene	1.132	1.110	1.103	1.044	0.983	0.987	0.976	1.037	6.72
			0.959								
47)	PT	12dichlorota	0.378	0.351	0.319	0.322	0.304	0.304	0.290	0.321	9.32
			0.297								
48)	T	TAME	0.551	0.513	0.498	0.524	0.509	0.519	0.514	0.521	3.30
			0.540								
49)	PT	trichloroete	0.297	0.280	0.272	0.253	0.261	0.254	0.249	0.266	6.17
			0.259								
50)	PT	methylcyclohexa	0.387	0.412	0.417	0.385	0.399	0.393	0.387	0.399	3.14
			0.409								
51)	PT	12dicloropra	0.341	0.321	0.319	0.306	0.284	0.293	0.288	0.306	6.34
			0.297								
52)	T	23Dicl1propene	0.393	0.387	0.373	0.372	0.363	0.364	0.365	0.375	3.01
			0.381								
53)	T	Dibromometha	0.139	0.136	0.119	0.131	0.123	0.120	0.118	0.126	6.54
			0.124								
54)	T	methylmethacryl	0.098	0.099	0.088	0.096	0.099	0.102	0.096	0.097	4.65
			0.102								
55)	T	14dioxane	0.001	0.001	0.001	0.001	0.001	0.001		0.001#	9.58
56)	PT	Bromodiclrma	0.252	0.301	0.292	0.297	0.283	0.302	0.296	0.292	6.45
			0.317								

57)	T	2Nitropropane	0.031	0.029	0.027	0.031	0.034	0.035	0.035	0.033	12.10
			0.040								
58)	T	2CLEVE	0.060	0.050	0.051	0.062	0.070	0.062	0.059	0.060	12.04
			0.068								
59)	PT	c13dicloproe	0.303	0.305	0.301	0.314	0.332	0.322	0.321	0.319	5.50
			0.353								
60)	PT	4Meth2Pentan	0.193	0.195	0.183	0.192	0.187	0.177	0.165	0.180	8.58
			0.151								
61)	S	SURRd8Tolule	0.996	0.997	0.996	0.979	0.991	0.982	0.988	0.991	0.75
			0.999								
62)	PT	Toluene	0.728	0.690	0.657	0.628	0.605	0.618	0.608	0.644	6.91
			0.618								
63)	PT	t13Dicloprop	0.209	0.205	0.203	0.212	0.233	0.229	0.225	0.222	8.11
			0.256								
64)	T	ethylmethacryla	0.177	0.197	0.189	0.201	0.197	0.205	0.202	0.197	5.24
			0.210								
65)	PT	112Triclotha	0.166	0.164	0.152	0.151	0.142	0.144	0.140	0.150	6.68
			0.144								
66)	PT	Tetrachlorte	0.310	0.330	0.318	0.292	0.296	0.298	0.293	0.306	4.38
			0.307								
67)	T	13Diclorpropa	0.300	0.331	0.299	0.302	0.297	0.289	0.274	0.297	5.64
			0.284								
68)	I	d5-CHLOROBENZENE**IST	----------ISTD----------								
69)	PT	2Hexanone	0.150	0.166	0.151	0.166	0.164	0.157	0.146	0.155	6.23
			0.140								
70)	PT	Clorodibrmta	0.224	0.241	0.236	0.241	0.237	0.256	0.250	0.244	5.87
			0.271								
71)	PT	12Dibrometha	0.210	0.203	0.191	0.198	0.196	0.203	0.194	0.200	3.01
			0.203								
72)	PT	Chlorobenzen	1.032	1.007	0.946	0.899	0.835	0.863	0.847	0.910	8.46
			0.848								
73)	T	1Clhexane	0.534	0.430	0.419	0.392	0.395	0.405	0.399	0.425	10.90
			0.425								
74)	T	1112Tetclota	0.291	0.278	0.271	0.279	0.269	0.295	0.291	0.285	4.89
			0.310								
75)	PT	Ethylbenzene	1.563	1.636	1.596	1.499	1.424	1.454	1.419	1.498	6.09
			1.390								
76)	PT	m p-Xylene	0.599	0.637	0.624	0.579	0.553	0.575	0.568	0.587	5.16
			0.560								
77)	PT	o-Xylene	0.540	0.603	0.586	0.578	0.553	0.570	0.563	0.571	3.42
			0.576								
78)	PT	Styrene	0.856	0.973	0.934	0.943	0.909	0.935	0.921	0.925	3.64
			0.929								
79)	PT	Bromoform	0.114	0.125	0.123	0.135	0.129	0.139	0.143	0.133	9.76
			0.155								
80)	PT	Isopropylben	1.429	1.507	1.507	1.456	1.392	1.434	1.391	1.433	3.86
			1.352								
81)	T	cyclohexanone	0.006	0.004	0.004	0.005	0.005	0.005	0.004	0.005#	12.65
			0.004								
82)	I	d4-1,4-DICHLOROBENZEN	----------ISTD----------								
83)	S	SURR4BrFBenz	0.832	0.836	0.800	0.819	0.787	0.817	0.813	0.813	2.05
			0.801								
84)	T	Bromobenzene	0.777	0.749	0.734	0.698	0.636	0.662	0.659	0.699	7.14
			0.674								
85)	PT	1122Tetrclta	0.408	0.447	0.432	0.461	0.393	0.420	0.410	0.424	5.20
			0.418								
86)	T	123Triclproa	0.431	0.424	0.458	0.474	0.381	0.360	0.363	0.409	10.65
			0.382								
87)	T	14dichloro2bute	0.102	0.081	0.066	0.082	0.103	0.084	0.082	0.087	14.22
			0.093								
88)	T	n-Propylbenz	3.189	3.375	3.245	3.180	2.917	3.023	2.978	3.086	6.34
			2.777								
89)	T	2chlorotolue	1.832	1.944	1.929	1.897	1.694	1.784	1.758	1.821	5.19
			1.730								
90)	T	4chlorotolue	2.101	2.227	2.167	2.109	1.936	2.030	2.005	2.071	4.71
			1.990								
91)	T	135Trimebenz	2.086	2.260	2.244	2.204	2.066	2.151	2.137	2.153	3.56
			2.072								

92)	T	tbutylbenzen	1.837	2.043	2.013	1.930	1.813	1.896	1.900	1.911	4.30
			1.853								
93)	T	124Trimetben	2.029	2.329	2.297	2.239	2.079	2.205	2.168	2.180	4.92
			2.095								
94)	T	sbutylbenzen	2.664	2.935	2.911	2.882	2.693	2.808	2.745	2.779	4.50
			2.593								
95)	PT	13Diclorbenz	1.462	1.396	1.359	1.310	1.215	1.276	1.253	1.316	6.32
			1.261								
96)	T	pIsopropylto	2.182	2.547	2.528	2.398	2.316	2.413	2.369	2.378	5.18
			2.272								
97)	PT	14dichlorobe	1.439	1.357	1.353	1.320	1.204	1.271	1.246	1.307	5.74
			1.266								
98)	PT	12dichlorobe	1.290	1.356	1.237	1.187	1.118	1.162	1.143	1.205	6.87
			1.148								
99)	T	nButylbenzen	2.080	2.175	2.162	2.120	2.024	2.106	2.068	2.096	2.65
			2.032								
100)	PT	12dibromo3cl	0.070	0.070	0.067	0.068	0.067	0.069	0.068	0.069	2.79
			0.073								
101)	T	135Trichloroben	0.855	0.926	0.907	0.913	0.876	0.908	0.909	0.904	2.97
			0.939								
102)	PT	124Trichlobe	0.740	0.722	0.665	0.734	0.698	0.762	0.743	0.731	5.02
			0.783								
103)	T	Hexachlorobu	0.444	0.414	0.404	0.395	0.402	0.424	0.411	0.417	4.31
			0.441								
104)	T	Naphthalene	1.243	1.124	1.039	1.193	1.188	1.218	1.153	1.170	5.52
			1.203								
105)	T	123Trichlben	0.578	0.614	0.604	0.658	0.616	0.651	0.631	0.626	4.58
			0.659								

Total Average %RSD 6.39

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

LW031517.M Fri Mar 17 10:47:20 2017

BFB

Data File : C:\Instarch\Data\MAR1517B\BFB1.D Vial: 1
Acq On : 15 Mar 2017 16:04 Operator: RLD-AGK
Sample : BFB INJ Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW031517.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.761 to 4.781 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	7658	PASS
75	95	30	60	51.5	15141	PASS
95	95	100	100	100.0	29413	PASS
96	95	5	9	6.3	1842	PASS
173	174	0.00	2	0.4	103	PASS
174	95	50	100	89.0	26165	PASS
175	174	5	9	5.4	1402	PASS
176	174	95	101	98.4	25754	PASS
177	176	5	9	7.7	1975	PASS

LW031517.M Fri Mar 17 10:24:13 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW1.D Vial: 5
Acq On : 15 Mar 2017 17:49 Operator: RLD-AGK
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: Mar 16 08:02:20 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:46 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1287274	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1043687	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	561909	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	313754	3.874	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 97 %			
45) SURR12DCAd4	7.35	102	68079	4.053	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 101 %			
61) SURRd8Tolule	9.79	98	1281517	4.019	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100 %			
83) SURR4BrFBenz	13.35	95	467562	4.094	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 102 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	11907	0.1165	ug/L	68
3) Chloromethan	2.15	50	15404m	0.1058	ug/L	91
4) VinylChlorid	2.27	62	12471	0.1101	ug/L	98
5) Bromomethane	2.76	94	4568m	0.0820	ug/L #	81
6) Chloroethane	2.92	64	7188m	0.1124	ug/L	89
7) Dichloroflmethane	3.23	67	15734	0.1089	ug/L	93
8) Trichlorofma	3.31	101	12828	0.1043	ug/L	89
9) Ethylether	3.75	59	5823	0.0980	ug/L	83
10) dichlorotfluoroethan	3.77	67	8634	0.0992	ug/L	92
11) propyleneoxide	3.81	58	8713	1.0325	ug/L #	83
12) Acrolein	3.92	56	5578	0.5203	ug/L	88
13) 11dichlorthe	4.03	96	7147	0.0998	ug/L	100
14) Trichlorotfluoroeth	4.06	101	15871	0.2189	ug/L	96
15) Acetone	4.13	43	31224m	1.5025	ug/L	99
16) Iodomethane	4.22	142	10487	0.1561	ug/L	78
17) Carbon Dislf	4.30	76	36421	0.2158	ug/L	99
18) allylchloride	4.53	41	31318	0.2104	ug/L	88
19) methylacetate	4.62	74	503m	0.0766	ug/L #	0
20) Methylchlorid	4.70	84	26969m	0.1875	ug/L #	82
21) tbutylalcohol	4.91	59	17796	4.6367	ug/L	89
22) Acrylonitrile	5.04	53	9928	0.5339	ug/L	96
23) t12dichlorte	5.06	96	8539	0.1133	ug/L	87
24) MtBE	5.08	73	16398	0.1052	ug/L	92
25) Hexane	5.43	57	21886	0.1779	ug/L #	89
26) 11dichlorota	5.59	63	18376	0.1109	ug/L	91
27) Vinylacetate	5.71	43	65045m	0.6084	ug/L	95
28) chloroprene	5.72	53	28488	0.1926	ug/L	98
29) Diisopether	5.73	45	35518	0.1017	ug/L	99
30) ETBE	6.18	59	23341	0.1026	ug/L	96
31) 22dichloropr	6.34	77	10002	0.1004	ug/L	95
32) c12dichlorte	6.34	96	10627	0.1142	ug/L	97
33) 2Butanone	6.38	72	5276	1.1470	ug/L	98
34) propionitrile	6.45	54	6882	1.0611	ug/L #	77
35) Ethylacetate	6.46	88	630	0.4124	ug/L #	38
36) methacrylonitrile	6.63	67	2960	0.1697	ug/L #	1
37) Bromochlorma	6.65	128	4949	0.1272	ug/L	90
38) Tetrahydofur	6.71	42	22932	1.2603	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW1.D Vial: 5
Acq On : 15 Mar 2017 17:49 Operator: RLD-AGK
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: Mar 16 08:02:20 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:46 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.73	83	17159	0.1139 ug/L		94
40)	111trichlota	6.98	97	11318	0.0938 ug/L		81
42)	Cyclohexane	7.04	56	15736	0.0990 ug/L		95
43)	Carbtetraclo	7.18	119	7228m	0.0919 ug/L	#	74
44)	11dicloprope	7.18	110	4170	0.1033 ug/L		96
46)	Benzene	7.42	78	36438	0.1092 ug/L		98
47)	12dichlorota	7.44	62	12171	0.1179 ug/L		95
48)	TAME	7.59	73	17747	0.1058 ug/L		94
49)	trichloroete	8.23	95	9568	0.1119 ug/L		93
50)	methylcyclohexane	8.49	83	12439	0.0970 ug/L		97
51)	12dicloropra	8.51	63	10959	0.1113 ug/L	#	87
52)	23Dicl1propene	8.57	75	12649	0.1049 ug/L		90
53)	Dibromometha	8.65	93	4470	0.1102 ug/L	#	79
54)	methylmethacrylate	8.67	69	3141	0.1001 ug/L		79
55)	14dioxane	8.72	88	1572	6.5228 ug/L	#	1
56)	Bromodiclrma	8.85	83	8121	0.0863 ug/L		99
57)	2Nitropropane	9.14	43	9956	0.9412 ug/L		92
58)	2CLEVE	9.24	63	9579	0.4953 ug/L		98
59)	c13dicloproe	9.44	75	9759	0.0951 ug/L		89
60)	4Meth2Pentan	9.63	43	62004	1.0686 ug/L		93
62)	Toluene	9.87	92	23440	0.1131 ug/L		95
63)	t13Dicloprop	10.15	75	6730	0.0943 ug/L		77
64)	ethylmethacrylate	10.28	69	11395	0.1796 ug/L		99
65)	112Triclotha	10.39	83	5338	0.1104 ug/L		97
66)	Tetrachlorte	10.60	166	9989	0.1016 ug/L		91
67)	13Diclorpropa	10.61	76	9650	0.1010 ug/L		76
69)	2Hexanone	10.73	43	39180	0.9688 ug/L		99
70)	Clorodibrmta	10.92	129	5839	0.0916 ug/L		91
71)	12Dibrometha	11.07	107	5485	0.1052 ug/L	#	79
72)	Chlorobenzen	11.75	112	26932	0.1135 ug/L	#	73
73)	1Clhexane	11.71	91	13931	0.1257 ug/L	#	49
74)	1112Tetclota	11.85	131	7582	0.1019 ug/L		95
75)	Ethylbenzene	11.90	91	40794	0.1044 ug/L		95
76)	m p-Xylene	12.06	106	31248	0.2040 ug/L		96
77)	o-Xylene	12.62	106	14095	0.0945 ug/L		93
78)	Styrene	12.63	104	22331	0.0925 ug/L		89
79)	Bromoform	12.89	173	2965	0.0855 ug/L		95
80)	Isopropylben	13.13	105	37287	0.0997 ug/L		99
81)	cyclohexanone	13.27	55	3157	2.4972 ug/L	#	47
84)	Bromobenzene	13.56	156	10917	0.1112 ug/L		94
85)	1122Tetrclta	13.55	83	5733	0.0963 ug/L		97
86)	123Triclproa	13.61	75	6058	0.1054 ug/L		88
87)	14dichloro2butene	13.64	53	1432m	0.1250 ug/L	#	57
88)	n-Propylbenz	13.72	91	44804	0.1034 ug/L		98
89)	2chlorotolue	13.85	91	25739	0.1006 ug/L		92
90)	4chlorotolue	14.00	91	29516	0.1015 ug/L		98
91)	135Trimebenz	13.98	105	29300	0.0969 ug/L		95
92)	tbutylbenzen	14.46	119	25799	0.0961 ug/L		90
93)	124Trimetben	14.53	105	28496	0.0931 ug/L		96
94)	sbutylbenzen	14.76	105	37419	0.0959 ug/L		94
95)	13Diclorbenz	14.92	146	20539	0.1111 ug/L		92
96)	pIsopropylto	14.99	119	30655	0.0918 ug/L		97
97)	14dichlorobe	15.05	146	20209	0.1101 ug/L	#	78
98)	12dichlorobe	15.59	146	18126	0.1071 ug/L	#	65
99)	nButylbenzen	15.59	91	29224	0.0993 ug/L		94
100)	12dibromo3cl	16.69	157	979	0.1010 ug/L	#	11
101)	135Trichlorobenzene	17.00	180	12006	0.0945 ug/L		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW1.D Vial: 5
Acq On : 15 Mar 2017 17:49 Operator: RLD-AGK
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: Mar 16 08:02:20 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:46 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	10396	0.1012 ug/L	92
103) Hexachlorobu	18.04	225	6243	0.1066 ug/L	83
104) Naphthalene	18.13	128	17467	0.1063 ug/L	99
105) 123Trichlben	18.44	180	8122	0.0923 ug/L	87

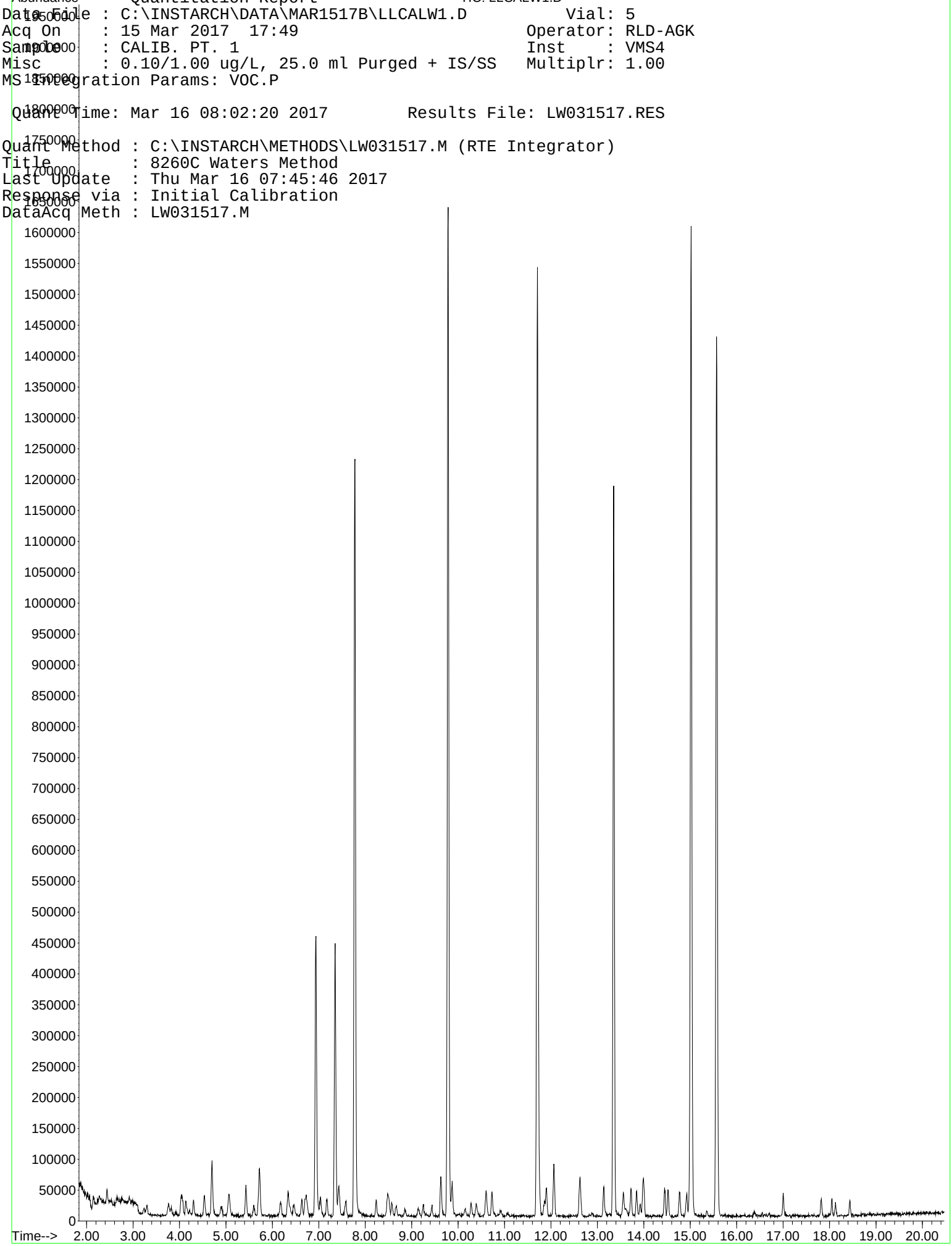
(#) = qualifier out of range (m) = manual integration

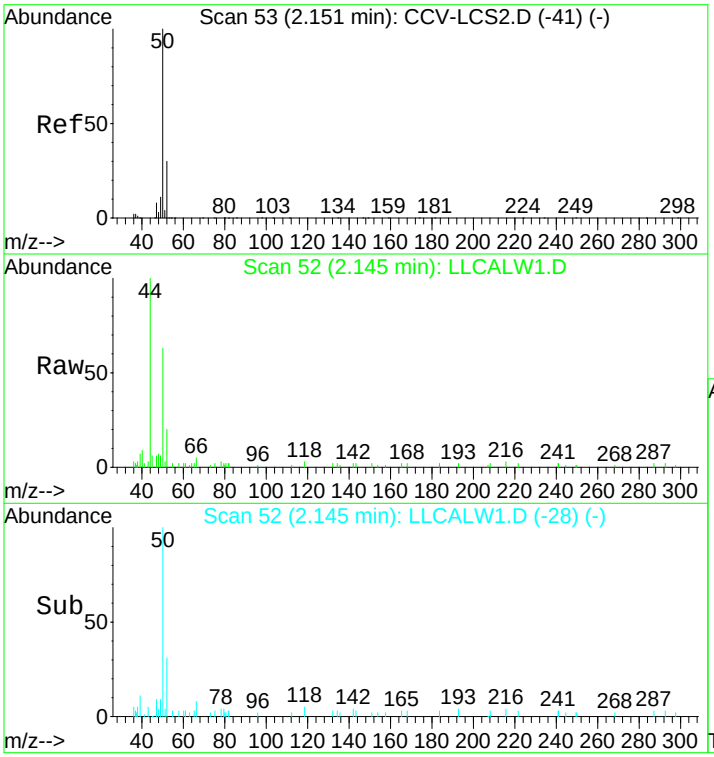
Abundance Quantitation Report TIC: LLCALW1.D

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW1.D Vial: 5
Acq On : 15 Mar 2017 17:49 Operator: RLD-AGK
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: Mar 16 08:02:20 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:46 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M





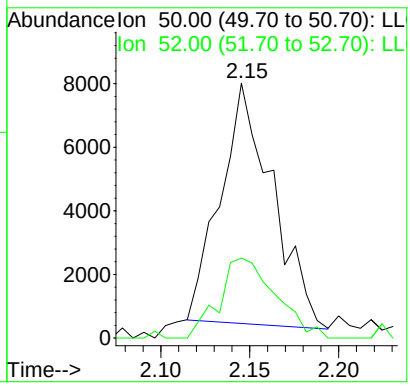
#3
Chloromethan
Concen: 0.11 ug/L m
RT: 2.15 min Scan# 52
Delta R.T. -0.01 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

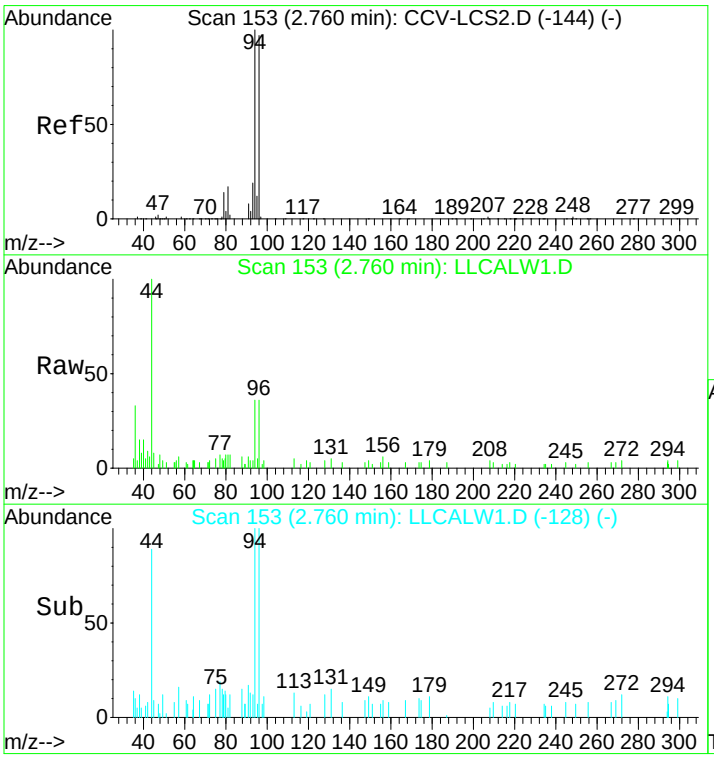
Tgt Ion: 50 Resp: 15404

Ion	Ratio	Lower	Upper
50	100		
52	36.0	13.4	53.4

After Manual Integration

RJ 03/17/2017

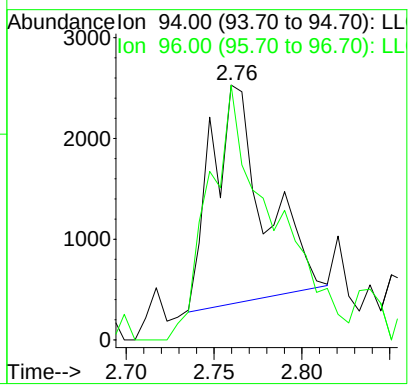




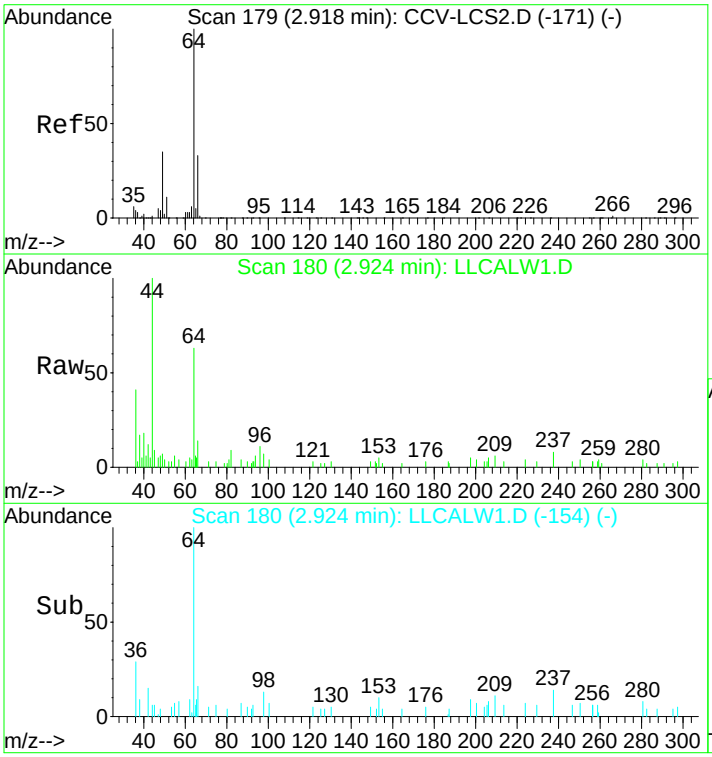
#5
Bromomethane
Concen: 0.08 ug/L m
RT: 2.76 min Scan# 153
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 94 Resp: 4568

Ion	Ratio	Lower	Upper
94	100		
96	140.3	74.5	114.5#



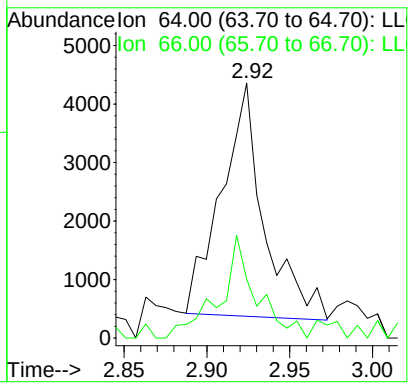
AgK 03/22/17



#6
Chloroethane
Concen: 0.11 ug/L m
RT: 2.92 min Scan# 180
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

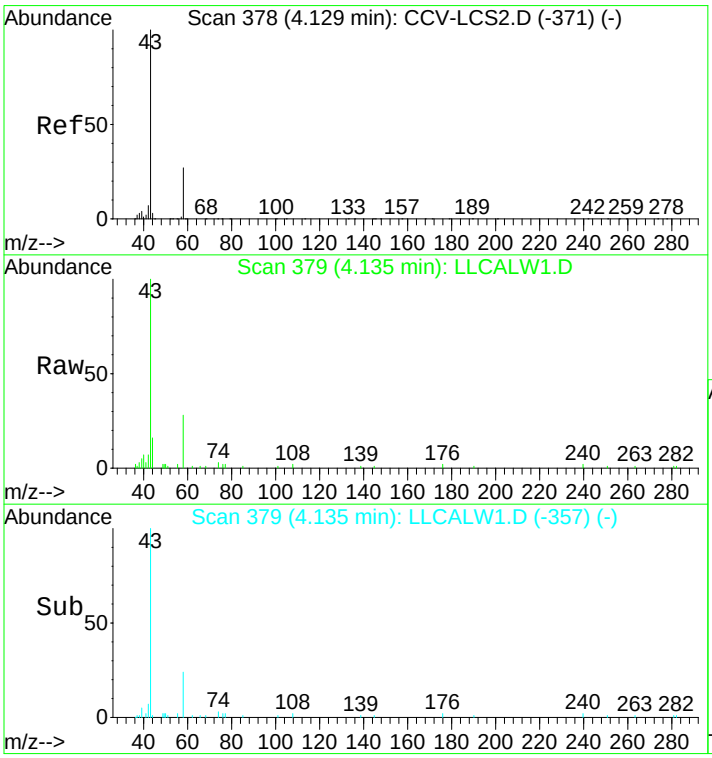
Tgt Ion: 64 Resp: 7188

Ion	Ratio	Lower	Upper
64	100		
66	37.7	13.3	53.3



After Manual Integration

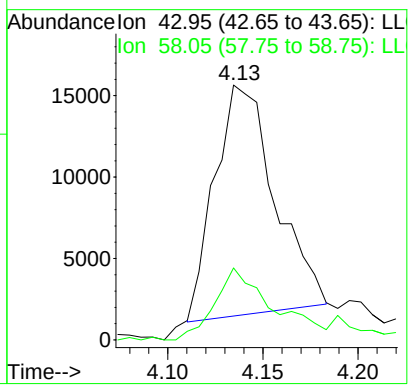
RJ 03/17/2017



#15
Acetone
Concen: 1.50 ug/L m
RT: 4.13 min Scan# 379
Delta R.T. -0.02 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 43 Resp: 31224

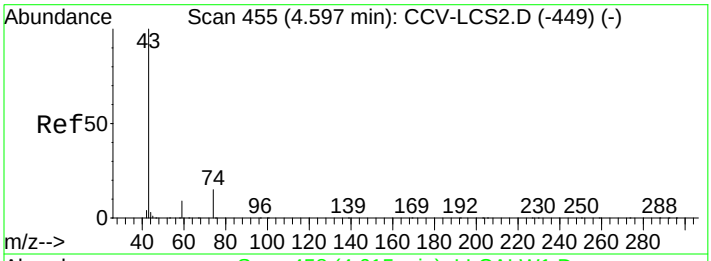
Ion	Ratio	Lower	Upper
43	100		
58	35.1	4.4	44.4

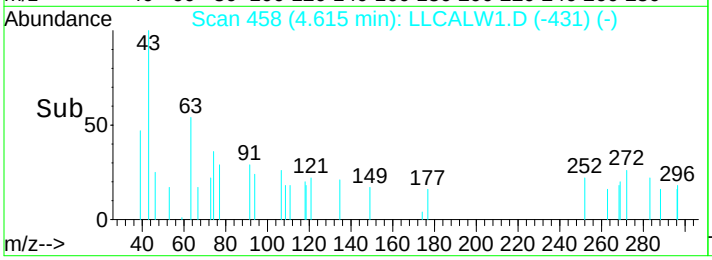


AgK 03/22/17

After Manual Integration

RJ 03/17/2017

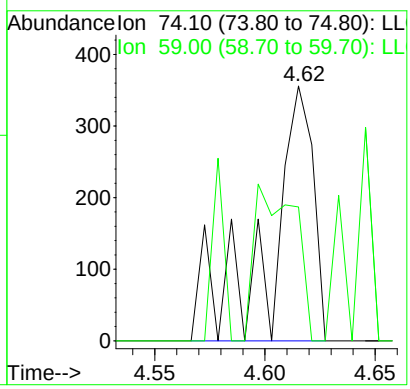


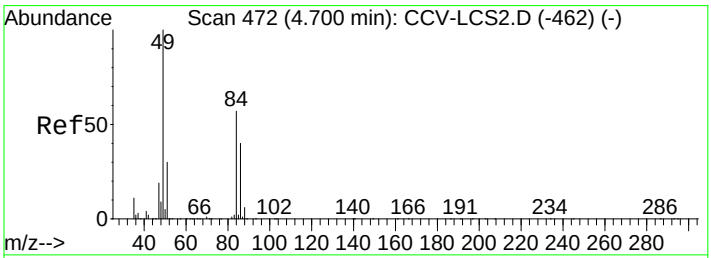


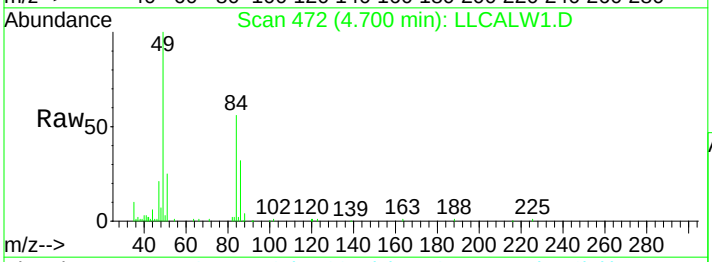
#19
methylacetate
Concen: 0.08 ug/L m
RT: 4.62 min Scan# 458
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

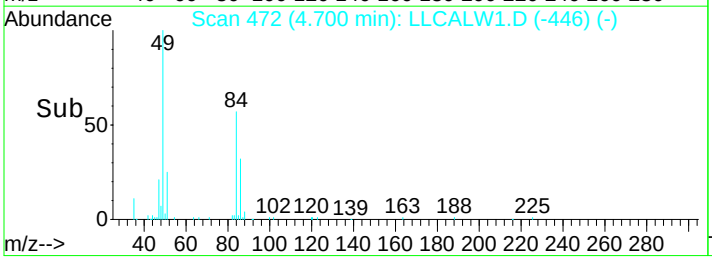
Tgt Ion: 74 Resp: 503

Ion	Ratio	Lower	Upper
74	100		
59	0.0	23.8	63.8#





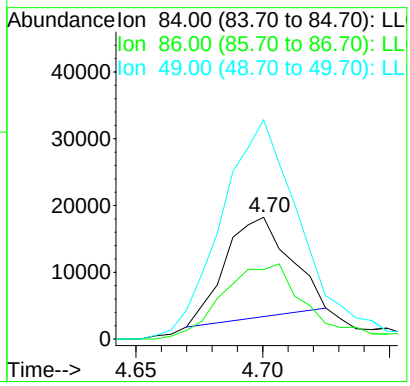




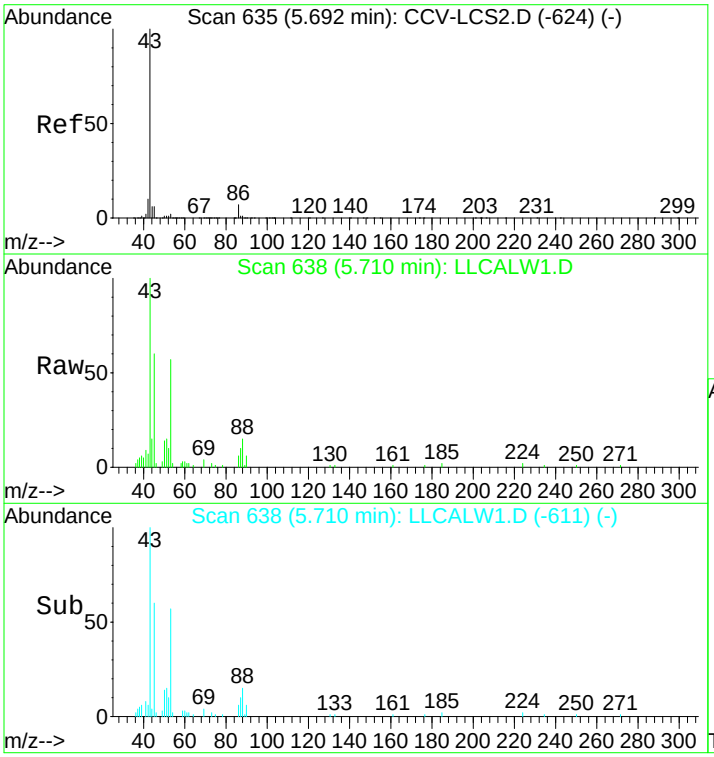
#20
Methylchlorid
Concen: 0.19 ug/L m
RT: 4.70 min Scan# 472
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 84 Resp: 26969

Ion	Ratio	Lower	Upper
84	100		
86	95.9	48.2	88.2#
49	273.2	188.4	228.4#



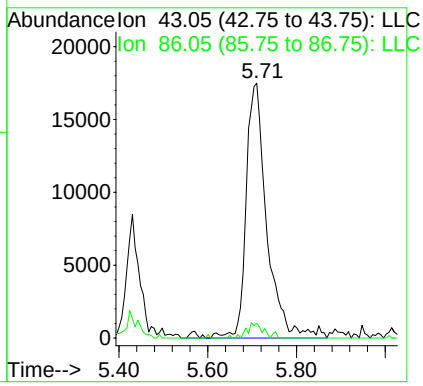
AgK 03/22/17

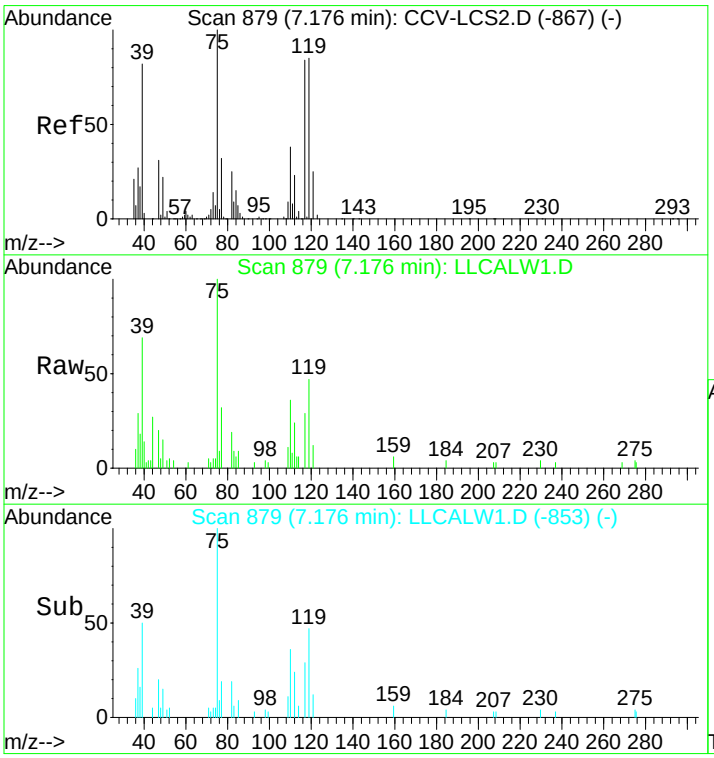


#27
Vinylacetate
Concen: 0.61 ug/L m
RT: 5.71 min Scan# 638
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 43 Resp: 65045

Ion	Ratio	Lower	Upper
43	100		
86	4.2	0.0	26.3

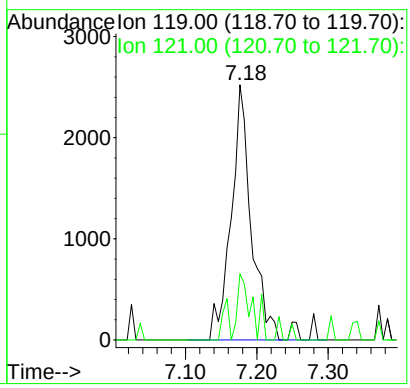




#43
Carbtetraclo
Concen: 0.09 ug/L m
RT: 7.18 min Scan# 879
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion:119 Resp: 7228

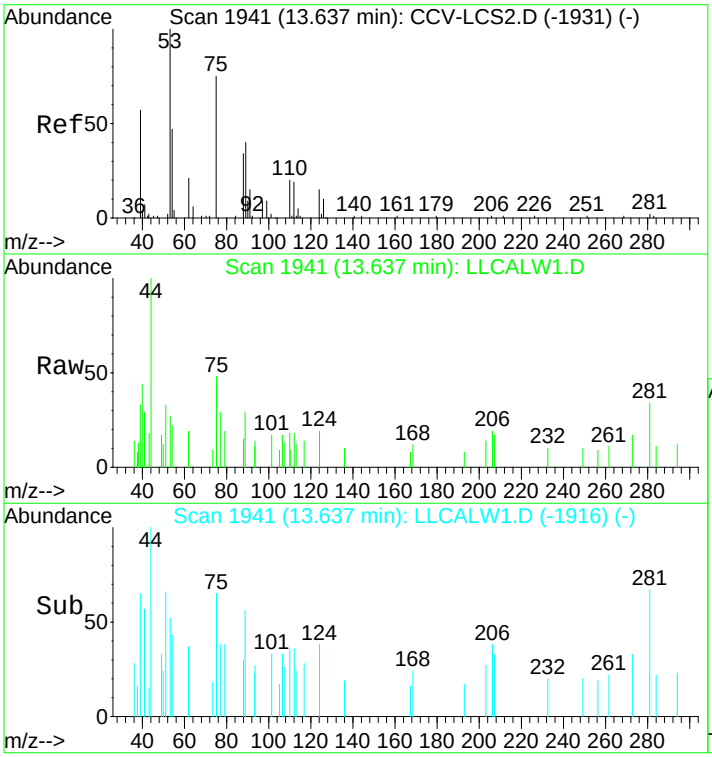
Ion	Ratio	Lower	Upper
119	100		
121	17.6	13.3	53.3



After Manual Integration

RJ 03/17/2017

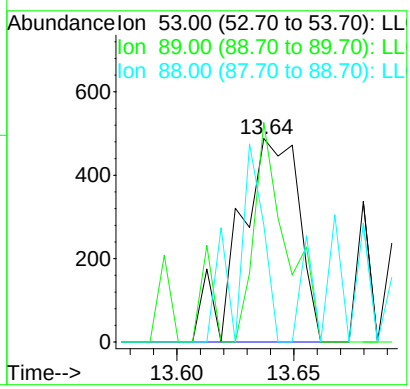
AgK 03/22/17



#87
14dichloro2butene
Concen: 0.12 ug/L m
RT: 13.64 min Scan# 1941
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 53 Resp: 1432

Ion	Ratio	Lower	Upper
53	100		
89	58.4	19.3	59.3
88	0.0	12.7	52.7#



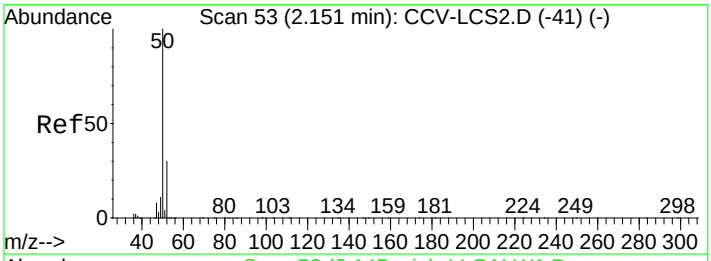
After Manual Integration

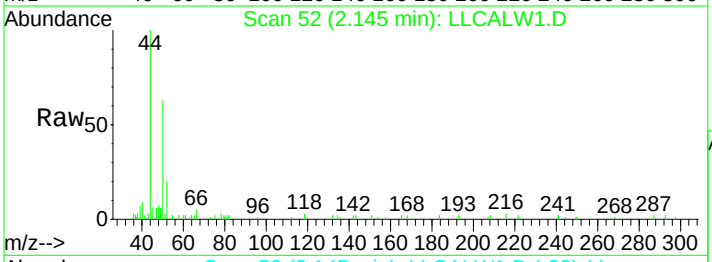
RJ 03/17/2017

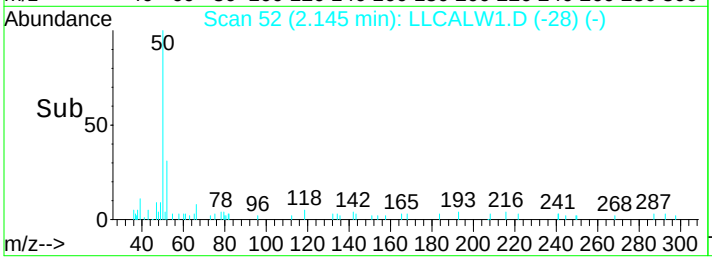
AgK 03/22/17

Before Manual Integration

RJ 03/17/2017



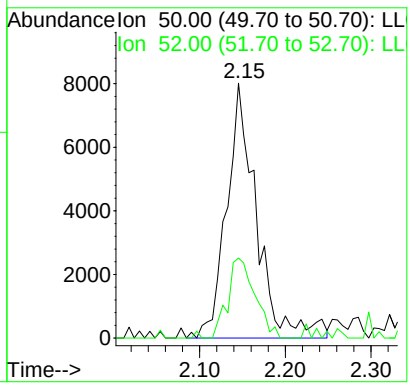




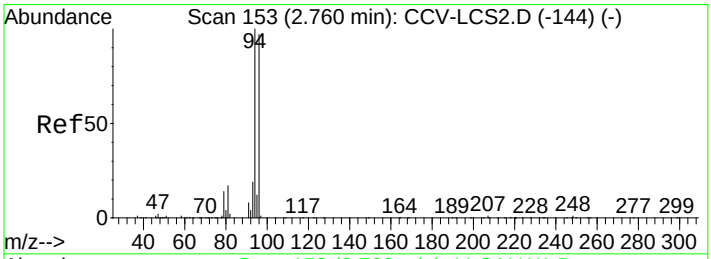
#3
Chloromethan
Concen: 0.14 ug/L
RT: 2.15 min Scan# 52
Delta R.T. -0.01 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

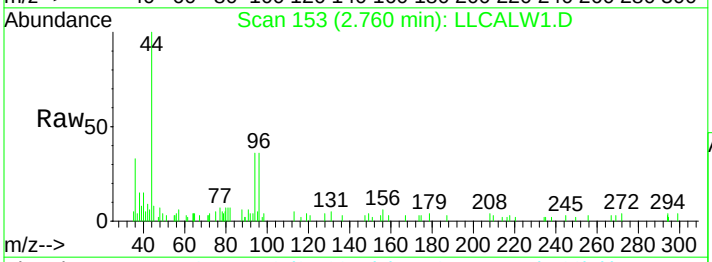
Tgt Ion: 50 Resp: 19458

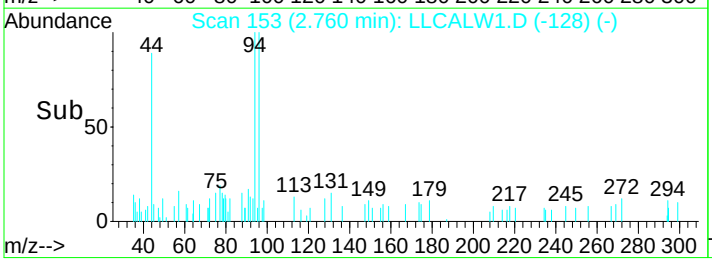
Ion	Ratio	Lower	Upper
50	100		
52	28.5	13.4	53.4



REASON # 2



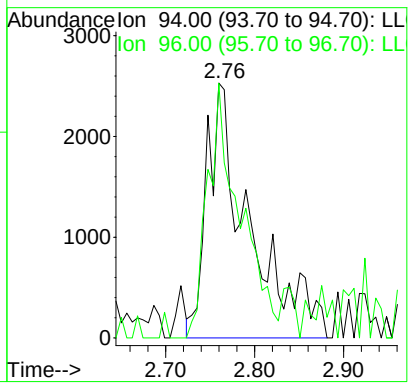




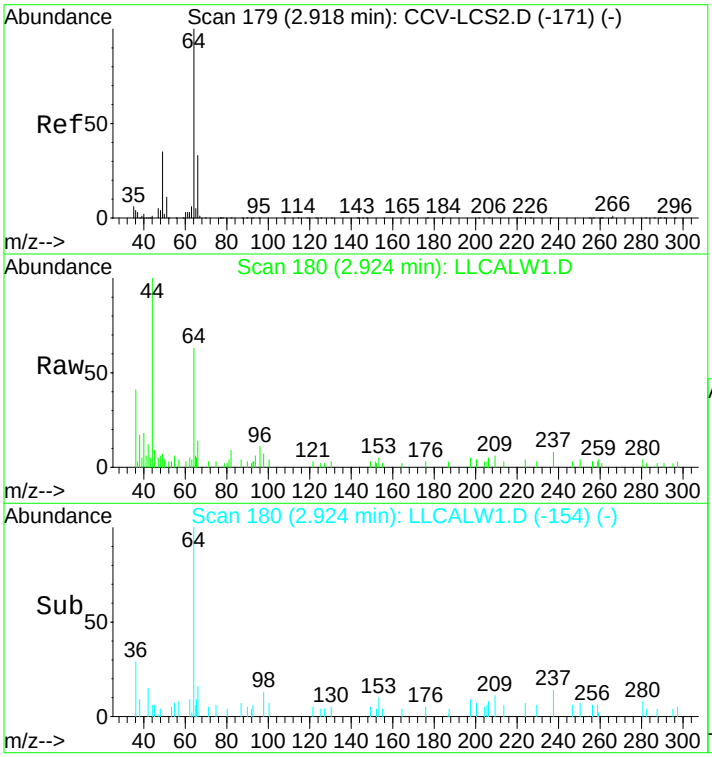
#5
Bromomethane
Concen: 0.17 ug/L
RT: 2.76 min Scan# 153
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 94 Resp: 8412

Ion	Ratio	Lower	Upper
94	100		
96	76.2	74.5	114.5



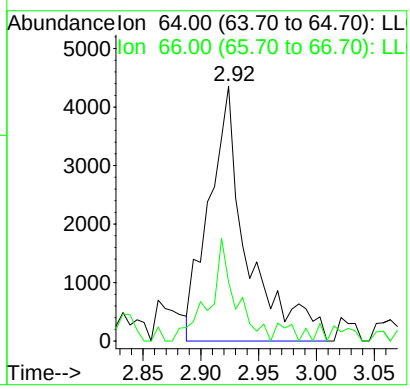
REASON # 2



#6
Chloroethane
Concen: 0.16 ug/L
RT: 2.92 min Scan# 180
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 64 Resp: 9951

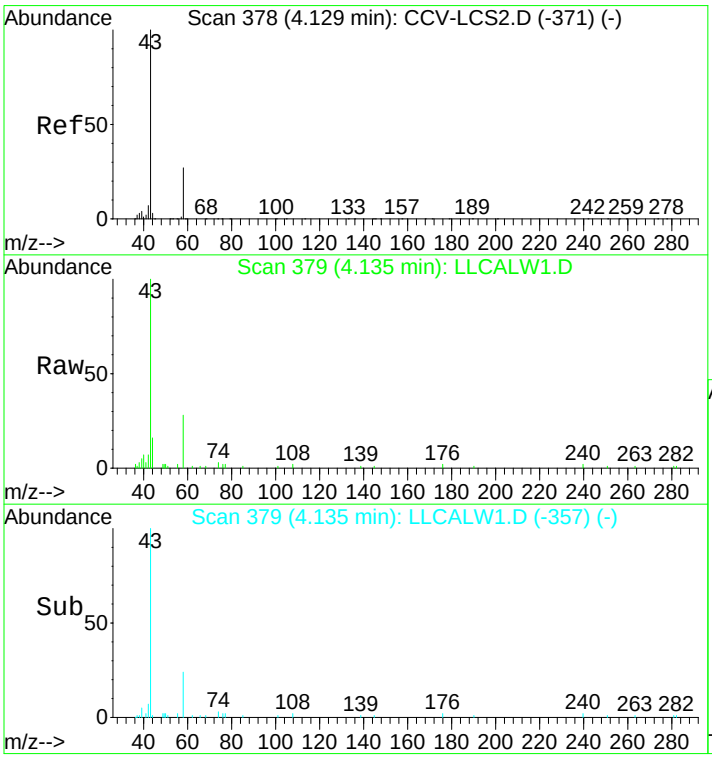
Ion	Ratio	Lower	Upper
64	100		
66	27.3	13.3	53.3



Before Manual Integration

03/17/2017

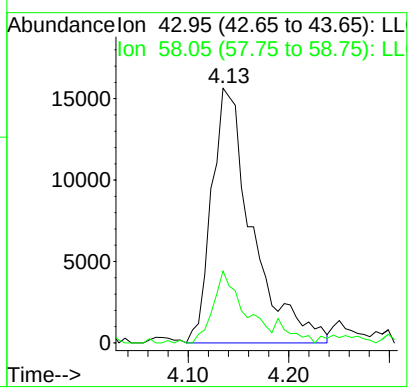
REASON # 2



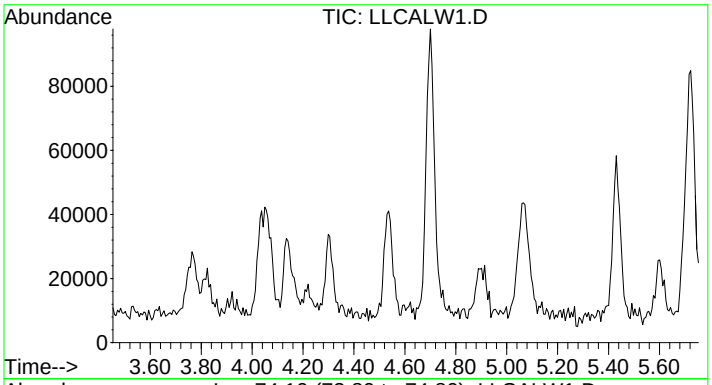
#15
Acetone
Concen: 0.38 ug/L
RT: 4.13 min Scan# 379
Delta R.T. -0.02 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 43 Resp: 43906

Ion	Ratio	Lower	Upper
43	100		
58	25.0	4.5	44.5



REASON # 2



#19
methylacetate
Concen: N.D.
Expected RT: 4.60 min

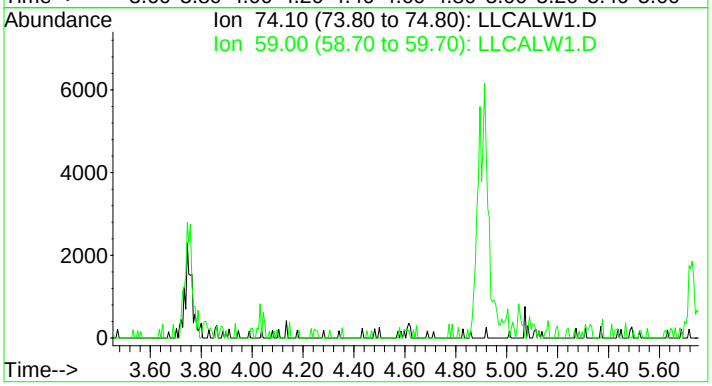
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 74

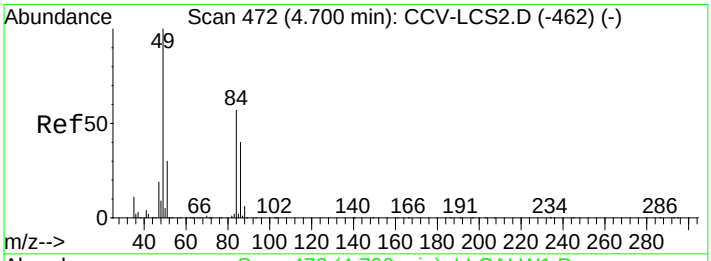
Sig	Exp Ratio
74	100
59	43.8

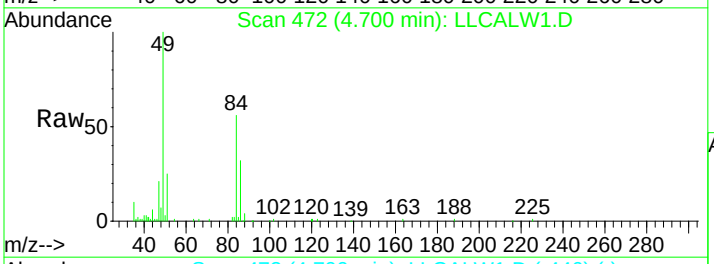
Before Manual Integration

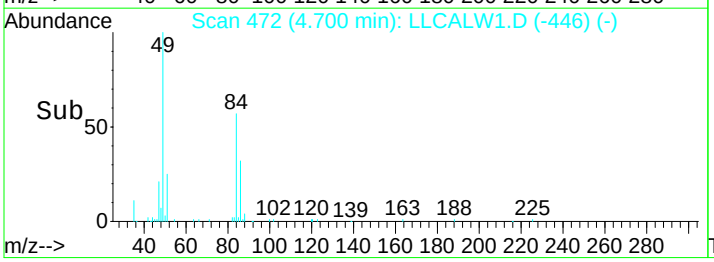
RJ 03/17/2017



REASON # 1



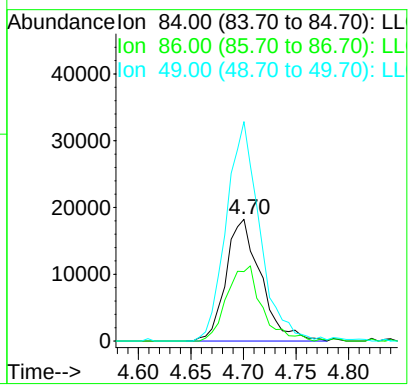




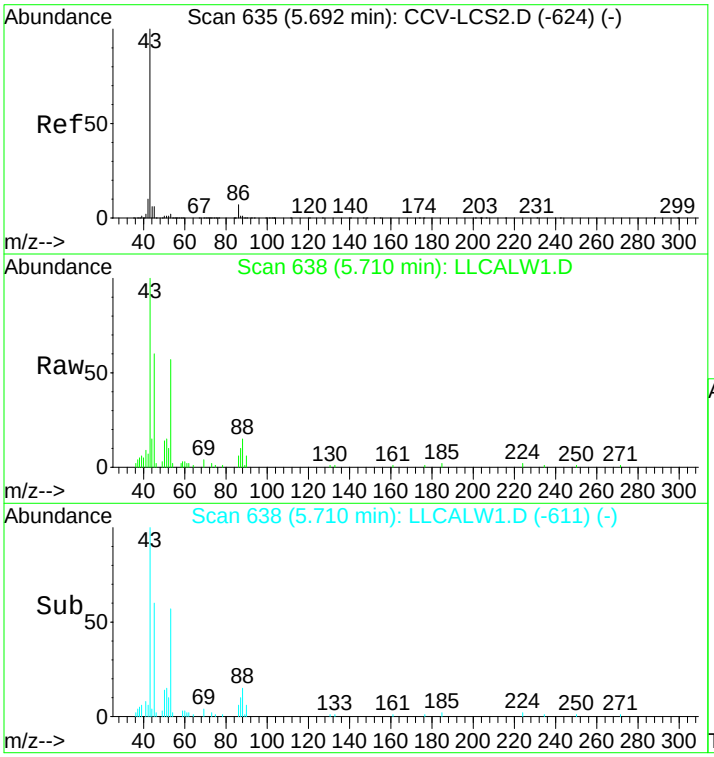
#20
Methylchlorid
Concen: 0.06 ug/L
RT: 4.70 min Scan# 472
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 84 Resp: 42115

Ion	Ratio	Lower	Upper
84	100		
86	61.4	48.2	88.2
49	174.9	188.4	228.4#



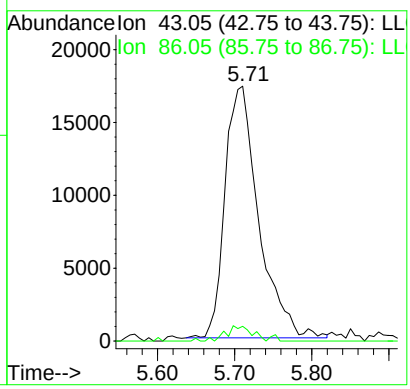
REASON # 2



#27
Vinylacetate
Concen: 0.37 ug/L
RT: 5.71 min Scan# 638
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 43 Resp: 52501

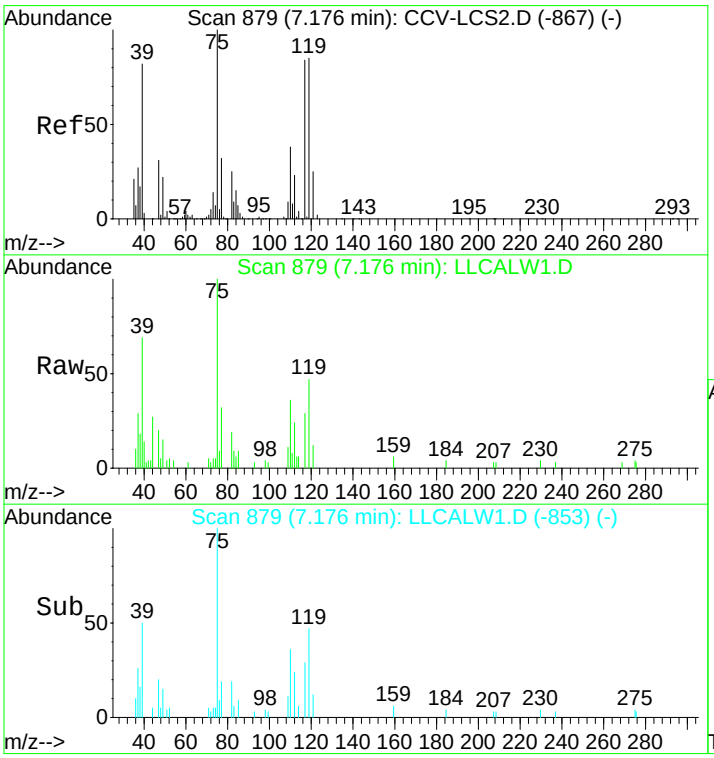
Ion	Ratio	Lower	Upper
43	100		
86	4.6	0.0	26.3



Before Manual Integration

03/17/2017

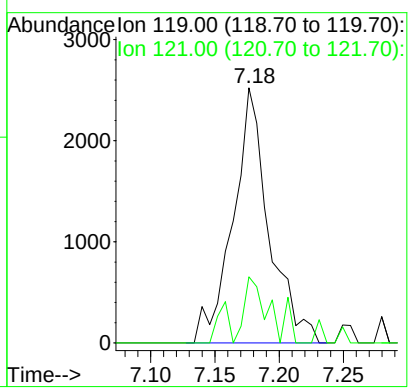
REASON # 2



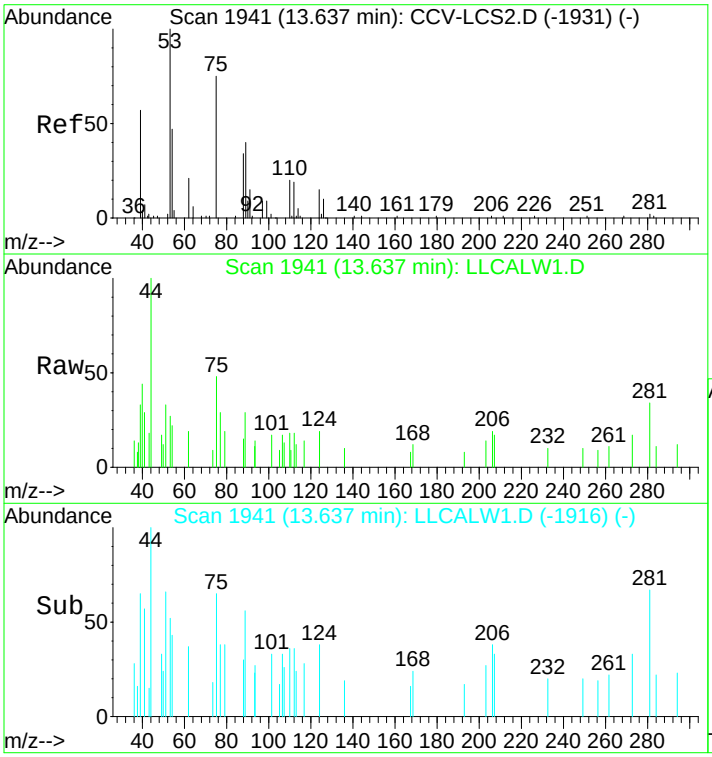
#43
Carbtetraclo
Concen: 0.06 ug/L
RT: 7.18 min Scan# 879
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion:119 Resp: 4913

Ion	Ratio	Lower	Upper
119	100		
121	18.4	13.3	53.3



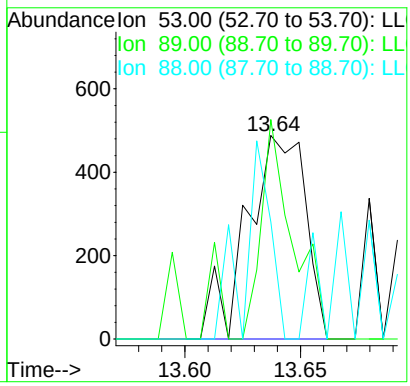
REASON # 2



#87
14dichloro2butene
Concen: 0.07 ug/L
RT: 13.64 min Scan# 1941
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 15 Mar 2017 17:49

Tgt Ion: 53 Resp: 861

Ion	Ratio	Lower	Upper
53	100		
89	58.4	19.3	59.3
88	0.0	12.7	52.7#



Before Manual Integration

RJ 03/17/2017

REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW2.D Vial: 6
Acq On : 15 Mar 2017 18:17 Operator: RLD-AGK
Sample : CALIB. PT. 2 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: Mar 16 08:02:43 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:26 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.77	96	1281812	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1009538	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	558390	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	319748	3.965	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 99	%		
45) SURR12DCAd4	7.35	102	69197	4.137	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 103	%		
61) SURRd8Tolule	9.79	98	1277870	4.024	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101	%		
83) SURR4BrFBenz	13.35	95	466539	4.111	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 103	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	51334	0.5045	ug/L	99
3) Chloromethan	2.15	50	79689	0.5497	ug/L	99
4) VinylChlorid	2.28	62	61970	0.5495	ug/L	95
5) Bromomethane	2.77	94	29650	0.5347	ug/L	100
6) Chloroethane	2.91	64	33426	0.5250	ug/L	96
7) Dichloroflmethane	3.23	67	78641	0.5467	ug/L	97
8) Trichlorofma	3.30	101	66769	0.5453	ug/L	96
9) Ethylether	3.75	59	33073	0.5592	ug/L	87
10) dichlorotfluoroethan	3.78	67	49176	0.5676	ug/L	98
11) propyleneoxide	3.82	58	44706	5.3202	ug/L	92
12) Acrolein	3.91	56	27108	2.5392	ug/L	96
13) 11dichlorthe	4.04	96	39689	0.5565	ug/L #	86
14) Trichlorotfluoroeth	4.06	101	77817	1.0778	ug/L	98
15) Acetone	4.13	43	110212m	5.3261	ug/L	94
16) Iodomethane	4.22	142	51576	0.7712	ug/L	95
17) Carbon Dislf	4.30	76	180288	1.0726	ug/L	98
18) allylchloride	4.54	41	155983	1.0524	ug/L	95
19) methylacetate	4.60	74	3320	0.5075	ug/L	75
20) Methylchlorid	4.69	84	75058m	0.5239	ug/L	82
21) tbutylalcohol	4.91	59	90394	23.6524	ug/L	96
22) Acrylonitrile	5.03	53	49668	2.6826	ug/L	98
23) t12dichlorte	5.06	96	42441	0.5654	ug/L #	79
24) MtBE	5.09	73	81152	0.5229	ug/L	93
25) Hexane	5.43	57	128314	1.0474	ug/L	99
26) 11dichlorota	5.60	63	88334	0.5354	ug/L	99
27) Vinylacetate	5.70	43	490309	4.6056	ug/L	97
28) chloroprene	5.72	53	152794	1.0376	ug/L	97
29) Diisopether	5.72	45	185178	0.5327	ug/L	98
30) ETBE	6.18	59	115237	0.5085	ug/L	98
31) 22dichloropr	6.34	77	51963	0.5238	ug/L	99
32) c12dichlorte	6.34	96	50270	0.5427	ug/L	94
33) 2Butanone	6.38	72	24301	5.3057	ug/L	94
34) propionitrile	6.44	54	33808	5.2347	ug/L	92
35) Ethylacetate	6.46	88	3807	2.5028	ug/L #	95
36) methacrylonitrile	6.63	67	19373	1.1155	ug/L	97
37) Bromochlorma	6.63	128	19275	0.4975	ug/L	89
38) Tetrahydofur	6.71	42	94607	5.2217	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW2.D Vial: 6
Acq On : 15 Mar 2017 18:17 Operator: RLD-AGK
Sample : CALIB. PT. 2 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: Mar 16 08:02:43 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:26 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.74	83	80898	0.5395	ug/L	95
40)	111trichlota	6.96	97	63861	0.5316	ug/L	100
42)	Cyclohexane	7.04	56	86528	0.5466	ug/L	98
43)	Carbtetraclo	7.18	119	33213	0.4241	ug/L	96
44)	11dicloprope	7.18	110	21899	0.5450	ug/L	93
46)	Benzene	7.43	78	177831	0.5352	ug/L	96
47)	12dichlorota	7.45	62	56227	0.5469	ug/L	95
48)	TAME	7.58	73	82261	0.4927	ug/L	95
49)	trichloroete	8.23	95	44865	0.5271	ug/L	93
50)	methylcyclohexane	8.48	83	66035	0.5170	ug/L	99
51)	12dicloropra	8.51	63	51374	0.5240	ug/L	99
52)	23Dicl1propene	8.58	75	61978	0.5162	ug/L	97
53)	Dibromometha	8.65	93	21857	0.5411	ug/L	98
54)	methylmethacrylate	8.67	69	15929	0.5098	ug/L	94
55)	14dioxane	8.69	88	7804	32.5196	ug/L #	34
56)	Bromodiclrma	8.86	83	48212	0.5144	ug/L	97
57)	2Nitropropane	9.14	43	47263	4.4871	ug/L	95
58)	2CLEVE	9.24	63	39726	2.0627	ug/L	95
59)	c13dicloproe	9.44	75	48855	0.4782	ug/L	99
60)	4Meth2Pentan	9.63	43	313089	5.4187	ug/L	97
62)	Toluene	9.87	92	110566	0.5357	ug/L	97
63)	t13Dicloprop	10.15	75	32819	0.4619	ug/L	96
64)	ethylmethacrylate	10.28	69	63051	0.9983	ug/L	92
65)	112Triclotha	10.39	83	26288	0.5461	ug/L	94
66)	Tetrachlorte	10.60	166	52924	0.5404	ug/L	98
67)	13Diclorpropa	10.62	76	52994	0.5570	ug/L	97
69)	2Hexanone	10.72	43	209983	5.3677	ug/L	97
70)	Clorodibrmta	10.92	129	30462	0.4940	ug/L	94
71)	12Dibrometha	11.07	107	25579	0.5074	ug/L	99
72)	Chlorobenzen	11.75	112	127048	0.5534	ug/L	97
73)	1Clhexane	11.71	91	54268	0.5062	ug/L	85
74)	1112Tetclota	11.85	131	35029	0.4865	ug/L	97
75)	Ethylbenzene	11.90	91	206434	0.5461	ug/L	96
76)	m p-Xylene	12.06	106	160739	1.0850	ug/L	97
77)	o-Xylene	12.62	106	76077	0.5276	ug/L	97
78)	Styrene	12.64	104	122825	0.5262	ug/L	98
79)	Bromoform	12.88	173	15777	0.4706	ug/L	92
80)	Isopropylben	13.14	105	190147	0.5256	ug/L	96
81)	cyclohexanone	13.24	55	10917	8.9277	ug/L	86
84)	Bromobenzene	13.56	156	52264	0.5359	ug/L	97
85)	1122Tetrclta	13.55	83	31191	0.5273	ug/L	92
86)	123Triclproa	13.61	75	29602	0.5183	ug/L	99
87)	14dichloro2butene	13.64	53	5659	0.4971	ug/L	94
88)	n-Propylbenz	13.72	91	235572	0.5469	ug/L	100
89)	2chlorotolue	13.84	91	135714	0.5339	ug/L	97
90)	4chlorotolue	14.00	91	155424	0.5377	ug/L	97
91)	135Trimebenz	13.98	105	157769	0.5250	ug/L	96
92)	tbutylbenzen	14.45	119	142631	0.5348	ug/L	99
93)	124Trimetben	14.53	105	162589	0.5343	ug/L	98
94)	sbutylbenzen	14.77	105	204856	0.5281	ug/L	99
95)	13Diclorbenz	14.92	146	97410	0.5300	ug/L	99
96)	pIsopropylto	14.98	119	177804	0.5355	ug/L	96
97)	14dichlorobe	15.05	146	94688	0.5190	ug/L	95
98)	12dichlorobe	15.60	146	94673	0.5627	ug/L	98
99)	nButylbenzen	15.58	91	151835	0.5189	ug/L	97
100)	12dibromo3cl	16.71	157	4858	0.5044	ug/L	92
101)	135Trichlorobenzene	17.00	180	64656	0.5123	ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW2.D Vial: 6
Acq On : 15 Mar 2017 18:17 Operator: RLD-AGK
Sample : CALIB. PT. 2 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: Mar 16 08:02:43 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:26 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	50408	0.4940 ug/L	96
103) Hexachlorobu	18.05	225	28908	0.4966 ug/L	96
104) Naphthalene	18.13	128	78441	0.4802 ug/L	97
105) 123Trichlben	18.44	180	42834	0.4899 ug/L	99

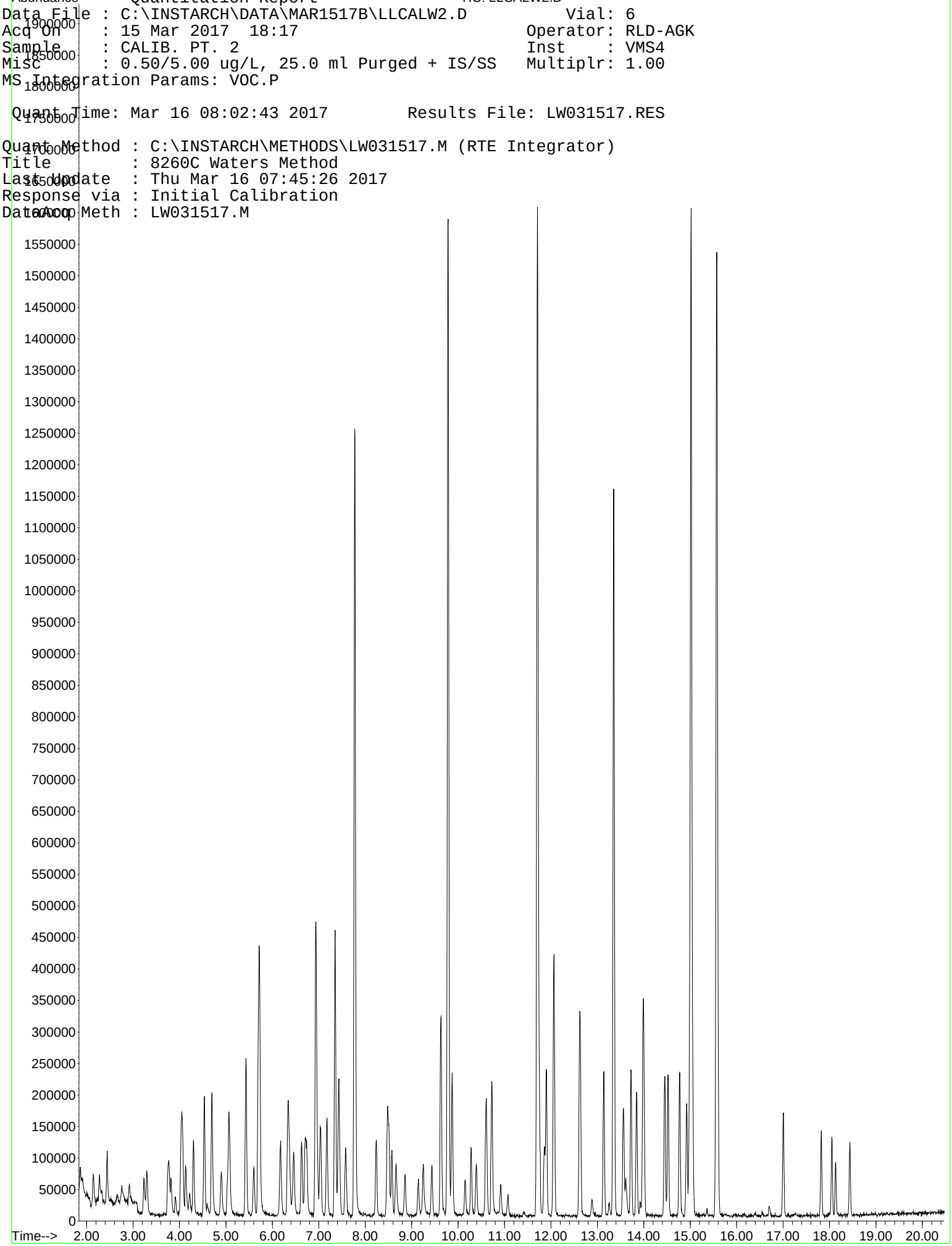
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALW2.D

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW2.D Vial: 6
Acq On : 15 Mar 2017 18:17 Operator: RLD-AGK
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.50/5.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

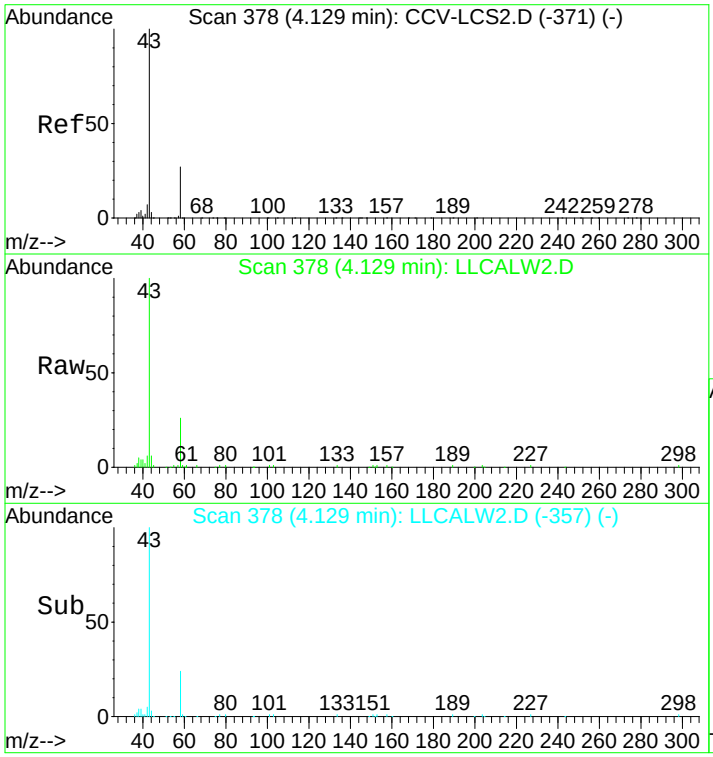
Quant Time: Mar 16 08:02:43 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:26 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



After Manual Integration

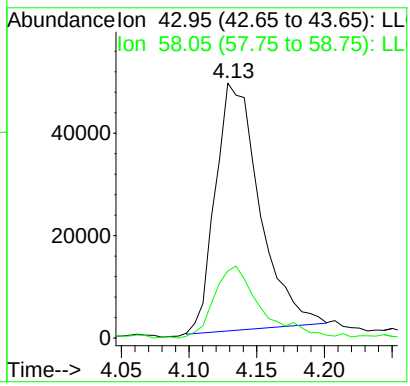
RJ 03/17/2017

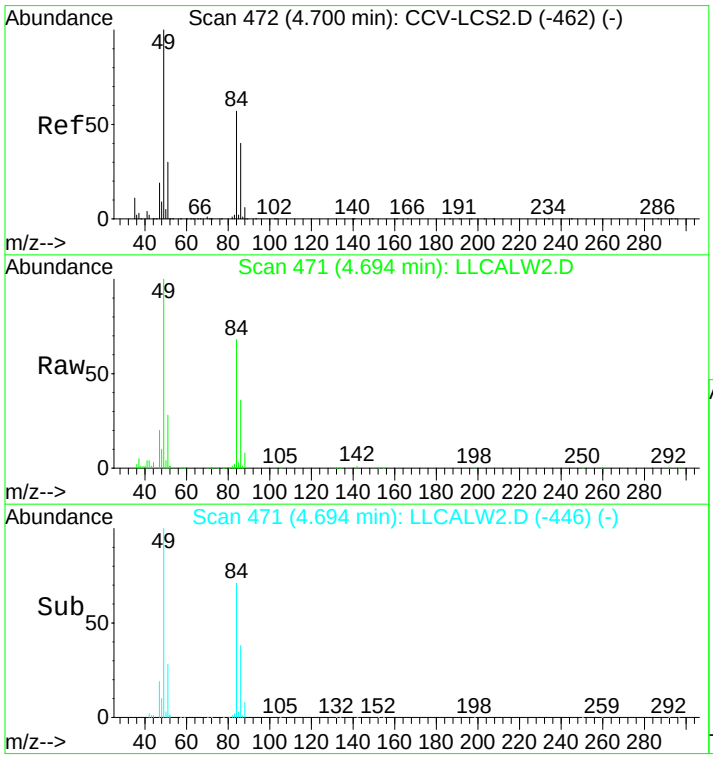


#15
Acetone
Concen: 5.33 ug/L m
RT: 4.13 min Scan# 378
Delta R.T. -0.02 min
Lab File: LLCALW2.D
Acq: 15 Mar 2017 18:17

Tgt Ion: 43 Resp: 110212

Ion	Ratio	Lower	Upper
43	100		
58	31.8	4.4	44.4

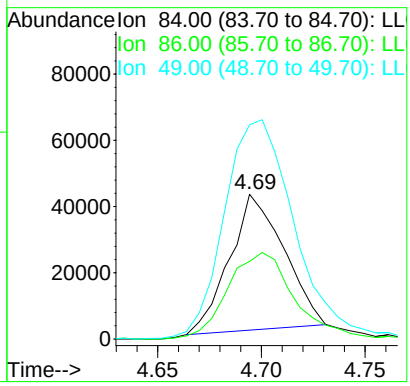




#20
Methylchlorid
Concen: 0.52 ug/L m
RT: 4.69 min Scan# 471
Delta R.T. 0.00 min
Lab File: LLCALW2.D
Acq: 15 Mar 2017 18:17

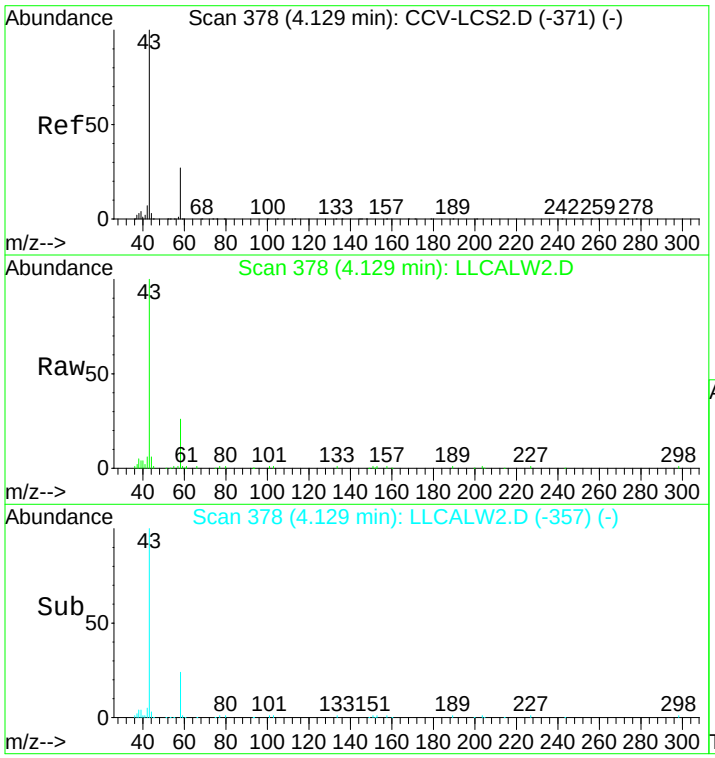
Tgt Ion: 84 Resp: 75058

Ion	Ratio	Lower	Upper
84	100		
86	79.3	48.2	88.2
49	211.1	188.4	228.4



AgK 03/22/17

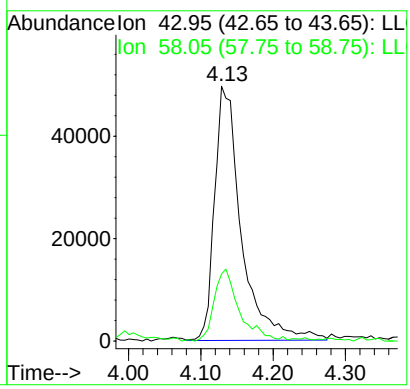
Before Manual Integration



#15
Acetone
Concen: 5.90 ug/L
RT: 4.13 min Scan# 378
Delta R.T. -0.02 min
Lab File: LLCALW2.D
Acq: 15 Mar 2017 18:17

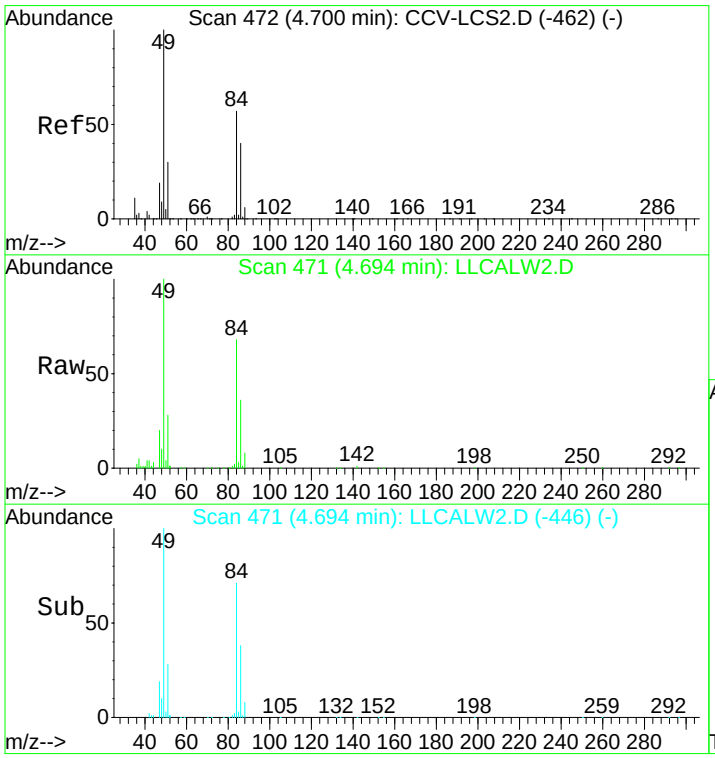
Tgt Ion: 43 Resp: 127870

Ion	Ratio	Lower	Upper
43	100		
58	27.4	4.5	44.5



RJ 03/17/2017

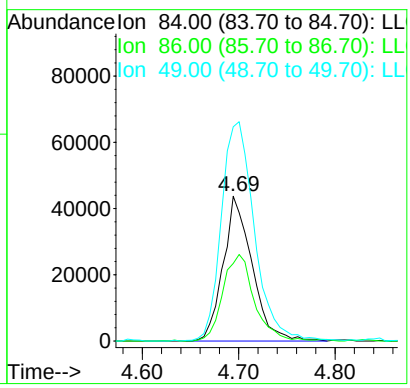
REASON # 2



#20
Methylchlorid
Concen: 0.73 ug/L
RT: 4.69 min Scan# 471
Delta R.T. 0.00 min
Lab File: LLCALW2.D
Acq: 15 Mar 2017 18:17

Tgt Ion: 84 Resp: 91189

Ion	Ratio	Lower	Upper
84	100		
86	65.3	48.2	88.2
49	173.8	188.4	228.4#



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW3.D Vial: 7
Acq On : 15 Mar 2017 18:46 Operator: RLD-AGK
Sample : CALIB. PT. 3 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: Mar 16 07:43:43 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:43:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1280474	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1019697	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	571986	4.00 ug/L	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.93	113	318583	3.995 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100 %		
45) SURR12DCAd4	7.35	102	63937	3.750 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 94 %		
61) SURRd8Tolule	9.79	98	1274761	4.006 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100 %		
83) SURR4BrFBenz	13.35	95	457511	3.911 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 98 %		
Target Compounds					Qvalue
2) Dichlorodi	1.87	85	108691	1.0216 ug/L	99
3) Chloromethan	2.15	50	151900	0.9419 ug/L	99
4) VinylChlorid	2.27	62	117939	0.9952 ug/L	99
5) Bromomethane	2.77	94	55763	0.8955 ug/L	98
6) Chloroethane	2.92	64	64167	0.8687 ug/L	98
7) Dichloroflmethane	3.23	67	150841	1.0131 ug/L	100
8) Trichlorofma	3.30	101	132723	1.0596 ug/L	98
9) Ethylether	3.75	59	60945	1.0198 ug/L	91
10) dichlorotfluoroethan	3.77	67	90731	1.0227 ug/L	93
11) propyleneoxide	3.82	58	79908	9.0605 ug/L	89
12) Acrolein	3.91	56	52038	4.7250 ug/L	99
13) 11dichlorthe	4.03	96	76863	1.0750 ug/L	91
14) Trichlorotfluoroeth	4.06	101	155605	2.1104 ug/L	98
15) Acetone	4.13	43	186844	6.5123 ug/L	95
16) Iodomethane	4.22	142	113513	1.9944 ug/L	96
17) Carbon Dislf	4.30	76	356766	2.0781 ug/L	98
18) allylchloride	4.53	41	302834	1.9377 ug/L	93
19) methylacetate	4.59	74	6050	0.8891 ug/L	96
20) Methylchlorid	4.69	84	126160	0.5578 ug/L #	86
21) tbutylalcohol	4.90	59	173094	44.1260 ug/L	94
22) Acrylonitrile	5.03	53	89620	4.5700 ug/L	98
23) t12dichlorte	5.07	96	76402	0.9871 ug/L #	89
24) MtBE	5.08	73	155800	0.9832 ug/L	95
25) Hexane	5.43	57	260308	2.1608 ug/L	96
26) 11dichlorota	5.60	63	177088	1.0398 ug/L	99
27) Vinylacetate	5.69	43	1059928	11.1201 ug/L	99
28) chloroprene	5.72	53	314315	2.1318 ug/L	99
29) Diisopether	5.72	45	368095	1.0389 ug/L	99
30) ETBE	6.18	59	225073	0.9908 ug/L	98
31) 22dichloropr	6.33	77	99424	1.0145 ug/L	99
32) c12dichlorte	6.34	96	94287	0.9708 ug/L	98
33) 2Butanone	6.37	72	44142	9.0739 ug/L	93
34) propionitrile	6.43	54	65870	9.8113 ug/L	98
35) Ethylacetate	6.46	88	7541	5.2012 ug/L #	94
36) methacrylonitrile	6.62	67	32550	1.8487 ug/L	95
37) Bromochlorma	6.63	128	39393	0.9509 ug/L	95
38) Tetrahydofur	6.70	42	170556	8.5751 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW3.D Vial: 7
Acq On : 15 Mar 2017 18:46 Operator: RLD-AGK
Sample : CALIB. PT. 3 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: Mar 16 07:43:43 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:43:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.74	83	156810	0.9972 ug/L		97
40)	111trichlota	6.97	97	122104	1.0279 ug/L		96
42)	Cyclohexane	7.04	56	165138	1.0209 ug/L		99
43)	Carbtetraclo	7.18	119	72971	1.1262 ug/L		95
44)	11dicloprope	7.17	110	40790	0.9860 ug/L		96
46)	Benzene	7.43	78	353187	1.0264 ug/L		99
47)	12dichlorota	7.44	62	102264	0.9276 ug/L		98
48)	TAME	7.58	73	159449	0.9502 ug/L		97
49)	trichloroete	8.23	95	87005	0.9736 ug/L		95
50)	methylcyclohexane	8.48	83	133340	1.0436 ug/L		98
51)	12dicloropra	8.51	63	102039	1.0122 ug/L		97
52)	23Dicl1propene	8.57	75	119406	0.9804 ug/L		97
53)	Dibromometha	8.65	93	38028	0.8961 ug/L		94
54)	methylmethacrylate	8.67	69	28171	0.8947 ug/L		95
55)	14dioxane	8.70	88	12643	60.1110 ug/L	#	39
56)	Bromodiclrma	8.86	83	93415	1.0480 ug/L		99
57)	2Nitropropane	9.14	43	87193	8.6406 ug/L		99
58)	2CLEVE	9.24	63	81147	4.2429 ug/L		98
59)	c13dicloproe	9.43	75	96231	0.9591 ug/L		99
60)	4Meth2Pentan	9.63	43	586649	9.5663 ug/L		98
62)	Toluene	9.87	92	210422	0.9751 ug/L		95
63)	t13Dicloprop	10.15	75	65135	0.9434 ug/L		99
64)	ethylmethacrylate	10.28	69	120689	1.9847 ug/L		100
65)	112Triclotha	10.39	83	48579	0.9657 ug/L		93
66)	Tetrachlorte	10.60	166	101669	1.0171 ug/L		97
67)	13Diclorpropa	10.61	76	95873	0.9688 ug/L		100
69)	2Hexanone	10.73	43	384645	9.4255 ug/L		99
70)	Clorodibrmta	10.92	129	60087	1.0077 ug/L		98
71)	12Dibrometha	11.07	107	48810	0.9426 ug/L		98
72)	Chlorobenzen	11.75	112	241215	0.9878 ug/L		99
73)	1Clhexane	11.71	91	106789	0.9246 ug/L		89
74)	1112Tetclota	11.85	131	68979	0.9701 ug/L		93
75)	Ethylbenzene	11.90	91	406864	1.0357 ug/L		100
76)	m p-Xylene	12.07	106	318246	2.0933 ug/L		98
77)	o-Xylene	12.62	106	149503	1.0374 ug/L		97
78)	Styrene	12.63	104	238111	1.0235 ug/L		98
79)	Bromoform	12.88	173	31372	1.0036 ug/L		96
80)	Isopropylben	13.14	105	384093	1.0444 ug/L		98
81)	cyclohexanone	13.25	55	22697	17.0456 ug/L	#	49
84)	Bromobenzene	13.56	156	104965	1.0187 ug/L		96
85)	1122Tetrclta	13.55	83	61775	1.0384 ug/L		93
86)	123Triclproa	13.62	75	65429	1.1101 ug/L		94
87)	14dichloro2butene	13.63	53	9448	0.8062 ug/L		92
88)	n-Propylbenz	13.72	91	464068	1.0268 ug/L		99
89)	2chlorotolue	13.84	91	275804	1.0577 ug/L		99
90)	4chlorotolue	14.00	91	309896	1.0379 ug/L		100
91)	135Trimebenz	13.98	105	320877	1.0498 ug/L		99
92)	tbutylbenzen	14.45	119	287881	1.0610 ug/L		99
93)	124Trimetben	14.53	105	328420	1.0705 ug/L		98
94)	sbutylbenzen	14.77	105	416249	1.0531 ug/L		98
95)	13Diclorbenz	14.93	146	194353	1.0012 ug/L		97
96)	pIsopropylto	14.99	119	361533	1.0765 ug/L		98
97)	14dichlorobe	15.05	146	193528	1.0152 ug/L		98
98)	12dichlorobe	15.60	146	176894	0.9858 ug/L		99
99)	nButylbenzen	15.58	91	309179	1.0330 ug/L		98
100)	12dibromo3cl	16.70	157	9565	0.9711 ug/L		97
101)	135Trichlorobenzene	17.00	180	129748	1.0243 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW3.D Vial: 7
Acq On : 15 Mar 2017 18:46 Operator: RLD-AGK
Sample : CALIB. PT. 3 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: Mar 16 07:43:43 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:43:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	95141	0.9241	ug/L	98
103) Hexachlorobu	18.05	225	57823	0.9623	ug/L	97
104) Naphthalene	18.13	128	148563	0.8768	ug/L	99
105) 123Trichlben	18.44	180	86341	1.0017	ug/L	98

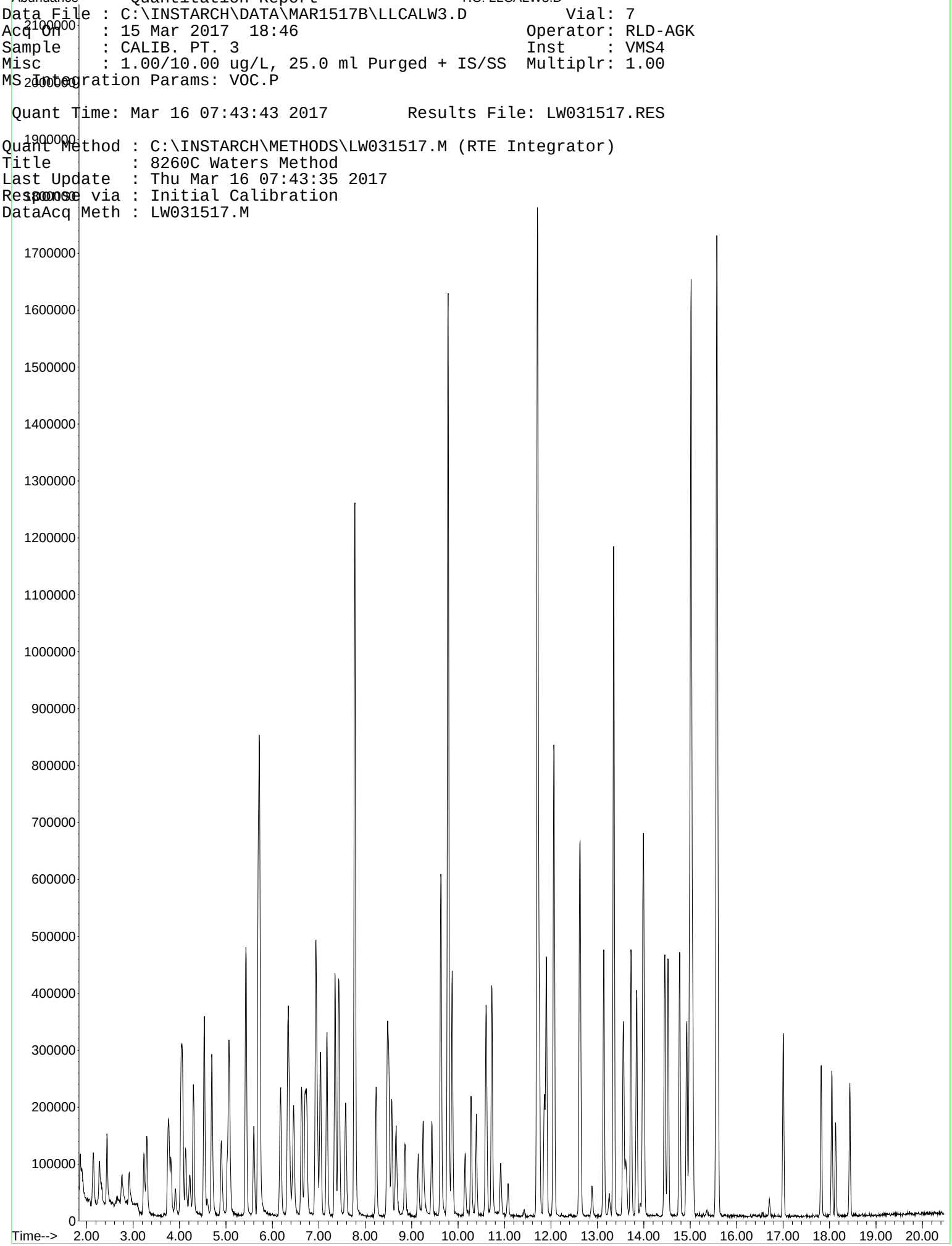
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALW3.D

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW3.D Vial: 7
Acq On : 15 Mar 2017 18:46 Operator: RLD-AGK
Sample : CALIB. PT. 3 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: Mar 16 07:43:43 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:43:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW4.D Vial: 8
Acq On : 15 Mar 2017 19:15 Operator: RLD-AGK
Sample : CALIB. PT. 4 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: Mar 16 07:44:03 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:43:54 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.77	96	1319030	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1047618	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	587116	4.00 ug/L	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.94	113	327870	3.992 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100 %		
45) SURR12DCAd4	7.35	102	71601	4.141 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 104 %		
61) SURRd8Tolule	9.79	98	1290849	3.936 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 98 %		
83) SURR4BrFBenz	13.35	95	480684	4.026 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 101 %		
Target Compounds					Qvalue
2) Dichlorodi	1.87	85	201384	1.8276 ug/L	99
3) Chloromethan	2.15	50	284300	1.7365 ug/L	98
4) VinylChlorid	2.27	62	225743	1.8514 ug/L	99
5) Bromomethane	2.75	94	97681	1.5636 ug/L	100
6) Chloroethane	2.92	64	117738	1.5999 ug/L	98
7) Dichloroflmethane	3.23	67	294047	1.9110 ug/L	100
8) Trichlorofma	3.30	101	247367	1.8889 ug/L	100
9) Ethylether	3.75	59	121615	1.9657 ug/L	93
10) dichlorotfluoroethan	3.77	67	175166	1.9060 ug/L	99
11) propyleneoxide	3.81	58	176873	19.9371 ug/L	91
12) Acrolein	3.91	56	112940	10.0939 ug/L	97
13) 11dichlorthe	4.03	96	142680	1.9016 ug/L	93
14) Trichlorotfluoroeth	4.06	101	286293	3.7180 ug/L	97
15) Acetone	4.13	43	368958	13.6763 ug/L	95
16) Iodomethane	4.22	142	272782	4.6559 ug/L	94
17) Carbon Dislf	4.30	76	692589	3.8785 ug/L	99
18) allylchloride	4.54	41	600772	3.7610 ug/L	96
19) methylacetate	4.60	74	13972	2.0697 ug/L	98
20) Methylchlorid	4.70	84	204746	0.9881 ug/L #	85
21) tbutylalcohol	4.90	59	401622	102.3982 ug/L	92
22) Acrylonitrile	5.03	53	195585	9.8946 ug/L	99
23) t12dichlorte	5.06	96	153004	1.9253 ug/L #	86
24) MtBE	5.08	73	314807	1.9367 ug/L	96
25) Hexane	5.43	57	501141	3.9588 ug/L	97
26) 11dichlorota	5.61	63	336466	1.8989 ug/L	100
27) Vinylacetate	5.69	43	2585536	25.6156 ug/L	100
28) chloroprene	5.72	53	613320	3.9727 ug/L	99
29) Diisopether	5.72	45	724797	1.9668 ug/L	99
30) ETBE	6.17	59	471035	2.0176 ug/L	99
31) 22dichloropr	6.33	77	201037	1.9842 ug/L	97
32) c12dichlorte	6.34	96	187694	1.8898 ug/L	97
33) 2Butanone	6.36	72	98552	20.1325 ug/L	97
34) propionitrile	6.43	54	137518	19.9787 ug/L	97
35) Ethylacetate	6.46	88	16783	11.1254 ug/L	95
36) methacrylonitrile	6.63	67	73116	4.1091 ug/L	97
37) Bromochlorma	6.64	128	79576	1.8879 ug/L	98
38) Tetrahydofur	6.70	42	374430	18.9501 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW4.D Vial: 8
Acq On : 15 Mar 2017 19:15 Operator: RLD-AGK
Sample : CALIB. PT. 4 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: Mar 16 07:44:03 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:43:54 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.74	83	304595	1.8816 ug/L	98
40) 111trichlota	6.96	97	243001	1.9721 ug/L	98
42) Cyclohexane	7.04	56	313749	1.8732 ug/L	99
43) Carbtetraclo	7.18	119	162047	2.3536 ug/L	97
44) 11dicloprope	7.18	110	78764	1.8548 ug/L	94
46) Benzene	7.43	78	688796	1.9305 ug/L	100
47) 12dichlorota	7.44	62	212647	1.9069 ug/L	98
48) TAME	7.58	73	345488	2.0239 ug/L	99
49) trichloroete	8.24	95	166950	1.8257 ug/L	95
50) methylcyclohexane	8.48	83	253867	1.9080 ug/L	99
51) 12dicloropra	8.51	63	201582	1.9354 ug/L	98
52) 23Dicl1propene	8.57	75	245659	1.9676 ug/L	99
53) Dibromometha	8.66	93	86097	2.0221 ug/L	94
54) methylmethacrylate	8.67	69	63576	2.0131 ug/L	96
55) 14dioxane	8.69	88	32572	143.1020 ug/L #	33
56) Bromodiclrma	8.86	83	196049	2.1098 ug/L	98
57) 2Nitropropane	9.14	43	203932	20.3085 ug/L	99
58) 2CLEVE	9.24	63	203377	10.7291 ug/L	98
59) c13dicloproe	9.43	75	206877	2.0223 ug/L	99
60) 4Meth2Pentan	9.63	43	1263613	20.2223 ug/L	100
62) Toluene	9.87	92	414133	1.8747 ug/L	99
63) t13Dicloprop	10.15	75	140093	1.9981 ug/L	98
64) ethylmethacrylate	10.28	69	264767	4.2348 ug/L	98
65) 112Triclotha	10.39	83	99546	1.9376 ug/L	97
66) Tetrachlorte	10.60	166	192709	1.8636 ug/L	99
67) 13Diclorpropa	10.62	76	199003	1.9674 ug/L	97
69) 2Hexanone	10.72	43	867341	20.9886 ug/L	99
70) Clorodibrmta	10.92	129	125985	2.0526 ug/L	97
71) 12Dibrometha	11.07	107	103637	1.9764 ug/L	99
72) Chlorobenzen	11.75	112	471045	1.8834 ug/L	98
73) 1Clhexane	11.71	91	205285	1.7632 ug/L	96
74) 1112Tetclota	11.85	131	146130	2.0154 ug/L	100
75) Ethylbenzene	11.90	91	785115	1.9281 ug/L	98
76) m p-Xylene	12.06	106	606861	3.8405 ug/L	96
77) o-Xylene	12.62	106	302885	2.0268 ug/L	100
78) Styrene	12.63	104	493821	2.0540 ug/L	100
79) Bromoform	12.88	173	70483	2.1927 ug/L	100
80) Isopropylben	13.14	105	762802	1.9967 ug/L	98
81) cyclohexanone	13.25	55	52018	39.4828 ug/L	94
84) Bromobenzene	13.56	156	204889	1.9283 ug/L	99
85) 1122Tetrclta	13.55	83	135335	2.1952 ug/L	93
86) 123Triclproa	13.61	75	139055	2.2369 ug/L	92
87) 14dichloro2butene	13.64	53	24040	2.1002 ug/L	92
88) n-Propylbenz	13.72	91	933654	1.9992 ug/L	99
89) 2chlorotolue	13.84	91	556790	2.0507 ug/L	98
90) 4chlorotolue	14.00	91	619139	2.0013 ug/L	100
91) 135Trimebenz	13.98	105	646918	2.0366 ug/L	98
92) tbutylbenzen	14.45	119	566700	2.0042 ug/L	99
93) 124Trimetben	14.52	105	657301	2.0511 ug/L	99
94) sbutylbenzen	14.77	105	846107	2.0582 ug/L	99
95) 13Diclorbenz	14.92	146	384582	1.9295 ug/L	99
96) pIsopropylto	14.99	119	704075	2.0041 ug/L	100
97) 14dichlorobe	15.05	146	387539	1.9731 ug/L	98
98) 12dichlorobe	15.60	146	348492	1.8988 ug/L	99
99) nButylbenzen	15.58	91	622347	2.0091 ug/L	99
100) 12dibromo3cl	16.71	157	20064	1.9989 ug/L	98
101) 135Trichlorobenzene	17.01	180	267962	2.0485 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW4.D Vial: 8
Acq On : 15 Mar 2017 19:15 Operator: RLD-AGK
Sample : CALIB. PT. 4 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: Mar 16 07:44:03 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:43:54 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

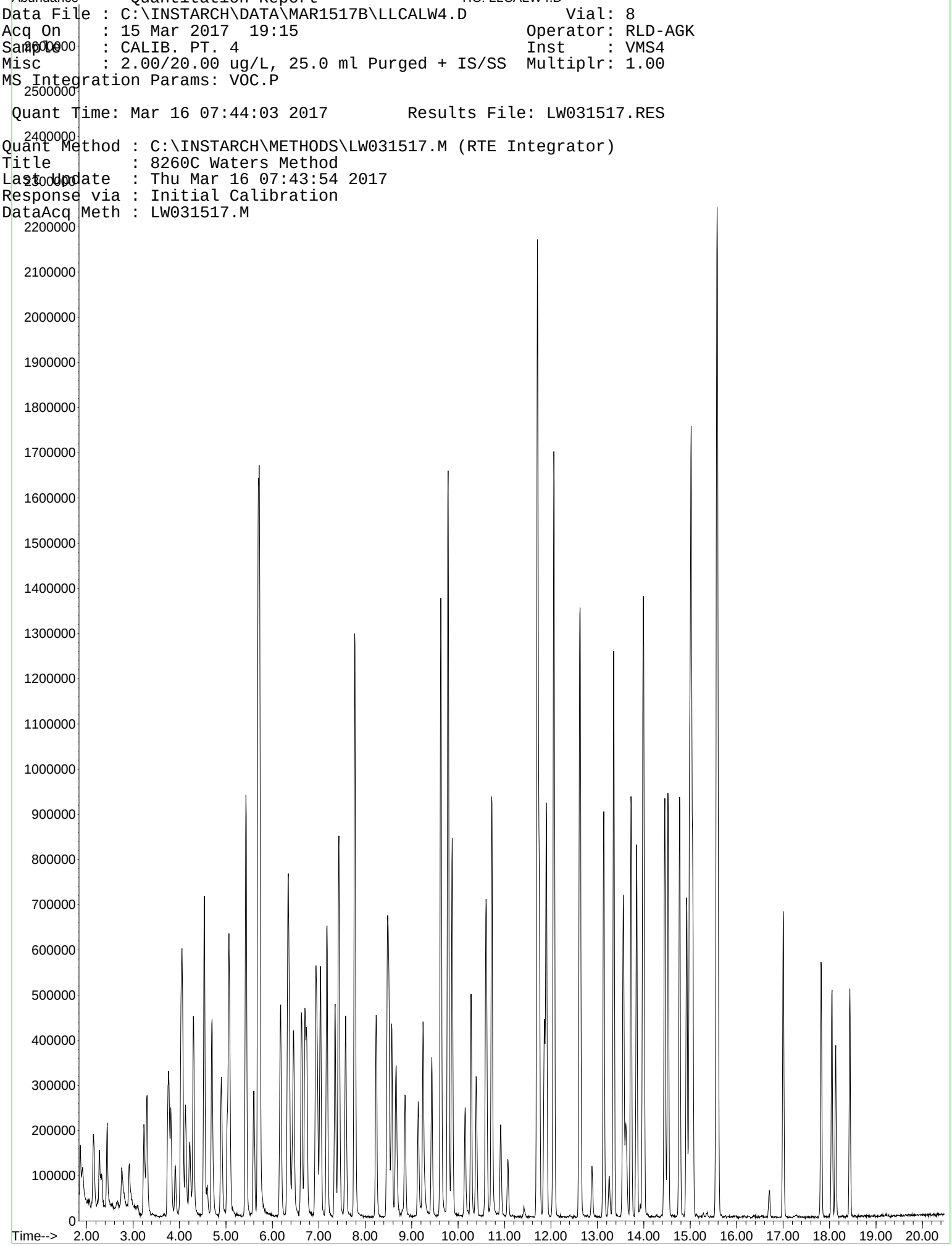
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	215492	2.0786	ug/L	97
103) Hexachlorobu	18.05	225	115973	1.8982	ug/L	94
104) Naphthalene	18.13	128	350199	2.0775	ug/L	96
105) 123Trichlben	18.44	180	193142	2.1821	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW4.D Vial: 8
Acq On : 15 Mar 2017 19:15 Operator: RLD-AGK
Sample : CALIB. PT. 4 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: Mar 16 07:44:03 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:43:54 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW5.D Vial: 9
Acq On : 15 Mar 2017 19:43 Operator: RLD-AGK
Sample : CALIB. PT. 5 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: Mar 16 07:57:41 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:57:36 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.77	96	1297498	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1042841	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	608280	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	330153	4.045	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101	%		
45) SURR12DCAd4	7.35	102	70321	4.153	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 104	%		
61) SURRd8Tolule	9.79	98	1286134	4.001	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100	%		
83) SURR4BrFBenz	13.35	95	478445	3.870	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 97	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	398284	3.8667	ug/L	100
3) Chloromethan	2.15	50	531710	3.7539	ug/L	100
4) VinylChlorid	2.27	62	436769	3.8258	ug/L	100
5) Bromomethane	2.76	94	178107	3.4731	ug/L	100
6) Chloroethane	2.92	64	226456	3.7145	ug/L	100
7) Dichloroflmethane	3.23	67	539667	3.7062	ug/L	100
8) Trichlorofma	3.30	101	465681	3.7574	ug/L	100
9) Ethylether	3.75	59	224309	3.7465	ug/L	100
10) dichlorotfluoroethan	3.77	67	332692	3.7939	ug/L	100
11) propyleneoxide	3.82	58	359410	42.2540	ug/L	100
12) Acrolein	3.92	56	225099	20.8304	ug/L	100
13) 11dichlorthe	4.03	96	260088	3.6028	ug/L	100
14) Trichlorotfluoroeth	4.06	101	522791	7.1534	ug/L	100
15) Acetone	4.15	43	683971	39.8907	ug/L	100
16) Iodomethane	4.21	142	544161	7.4689	ug/L	100
17) Carbon Dislf	4.29	76	1247194	7.3302	ug/L	100
18) allylchloride	4.53	41	1276041	8.5049	ug/L	100
19) methylacetate	4.60	74	28304	4.4035	ug/L	100
20) Methylchlorid	4.69	84	313871	3.7016	ug/L	100
21) tbutylalcohol	4.97	59	1001433	258.8657	ug/L	100
22) Acrylonitrile	5.03	53	390977	20.8612	ug/L	100
23) t12dichlorte	5.05	96	253390	3.3350	ug/L	100
24) MtBE	5.09	73	610207	3.8846	ug/L	100
25) Hexane	5.42	57	1009078	8.1372	ug/L	100
26) 11dichlorota	5.59	63	615288	3.6839	ug/L	100
27) Vinylacetate	5.70	43	5512713	41.3231	ug/L	100
28) chloroprene	5.72	53	1200891	8.0561	ug/L	100
29) Diisopether	5.73	45	1379080	3.9195	ug/L	100
30) ETBE	6.19	59	889075	3.8756	ug/L	100
31) 22dichloropr	6.33	77	367984	3.6646	ug/L	100
32) c12dichlorte	6.34	96	345785	3.6881	ug/L	100
33) 2Butanone	6.39	72	182488	39.3617	ug/L	100
34) propionitrile	6.45	54	266946	40.8333	ug/L	100
35) Ethylacetate	6.47	88	31948	20.7495	ug/L	100
36) methacrylonitrile	6.63	67	152096	8.6522	ug/L	100
37) Bromochlorma	6.63	128	148251	3.7801	ug/L	100
38) Tetrahydofur	6.72	42	732469	39.9390	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW5.D Vial: 9
Acq On : 15 Mar 2017 19:43 Operator: RLD-AGK
Sample : CALIB. PT. 5 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: Mar 16 07:57:41 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:57:36 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.74	83	566016	3.7289 ug/L		100
40)	111trichlota	6.96	97	471413	3.8771 ug/L		100
42)	Cyclohexane	7.03	56	632086	3.9446 ug/L		100
43)	Carbtetraclo	7.17	119	321101	3.9073 ug/L		100
44)	11dicloprope	7.17	110	157714	3.8776 ug/L		100
46)	Benzene	7.43	78	1275952	3.7936 ug/L		100
47)	12dichlorota	7.45	62	394914	3.7949 ug/L		100
48)	TAME	7.59	73	660134	3.9062 ug/L		100
49)	trichloroete	8.23	95	338061	3.9234 ug/L		100
50)	methylcyclohexane	8.48	83	517902	4.0056 ug/L		100
51)	12dicloropra	8.51	63	368775	3.7162 ug/L		100
52)	23Dicl1propene	8.58	75	470476	3.8710 ug/L		100
53)	Dibromometha	8.66	93	158997	3.8886 ug/L		100
54)	methylmethacrylate	8.67	69	127858	4.0428 ug/L		100
55)	14dioxane	8.73	88	56041	268.1250 ug/L	#	35
56)	Bromodiclrma	8.86	83	366707	3.8651 ug/L		100
57)	2Nitropropane	9.15	43	443305	41.5780 ug/L		100
58)	2CLEVE	9.25	63	455547	23.3674 ug/L		100
59)	c13dicloproe	9.43	75	431372	4.1717 ug/L		100
60)	4Meth2Pentan	9.63	43	2426811	41.4939 ug/L		100
62)	Toluene	9.87	92	784495	3.7551 ug/L		100
63)	t13Dicloprop	10.15	75	302684	4.2089 ug/L		100
64)	ethylmethacrylate	10.28	69	510649	7.9873 ug/L		100
65)	112Triclotha	10.39	83	183751	3.7711 ug/L		100
66)	Tetrachlorte	10.60	166	384499	3.8788 ug/L		100
67)	13Diclorpropa	10.62	76	385522	4.0029 ug/L		100
69)	2Hexanone	10.73	43	1707033	42.2429 ug/L		100
70)	Clorodibrmta	10.92	129	246652	3.8721 ug/L		100
71)	12Dibrometha	11.07	107	204908	3.9347 ug/L		100
72)	Chlorobenzen	11.75	112	870433	3.6704 ug/L		100
73)	1Clhexane	11.71	91	412229	3.7221 ug/L		100
74)	1112Tetclota	11.86	131	280127	3.7664 ug/L		100
75)	Ethylbenzene	11.90	91	1484589	3.8022 ug/L		100
76)	m p-Xylene	12.06	106	1153316	7.5364 ug/L		100
77)	o-Xylene	12.62	106	576506	3.8703 ug/L		100
78)	Styrene	12.63	104	947509	3.9293 ug/L		100
79)	Bromoform	12.89	173	134736	3.8905 ug/L		100
80)	Isopropylben	13.14	105	1451619	3.8844 ug/L		100
81)	cyclohexanone	13.26	55	110788	87.7065 ug/L		100
84)	Bromobenzene	13.56	156	386688	3.6399 ug/L		100
85)	1122Tetrclta	13.55	83	239137	3.7113 ug/L		100
86)	123Triclproa	13.61	75	231843	3.7265 ug/L		100
87)	14dichloro2butene	13.64	53	62955	4.7785 ug/L		100
88)	n-Propylbenz	13.72	91	1774330	3.7813 ug/L		100
89)	2chlorotolue	13.84	91	1030395	3.7211 ug/L		100
90)	4chlorotolue	14.00	91	1177614	3.7397 ug/L		100
91)	135Trimebenz	13.98	105	1256923	3.8399 ug/L		100
92)	tbutylbenzen	14.45	119	1102545	3.7948 ug/L		100
93)	124Trimetben	14.52	105	1264372	3.8140 ug/L		100
94)	sbutylbenzen	14.77	105	1638184	3.8765 ug/L		100
95)	13Diclorbenz	14.92	146	739079	3.6918 ug/L		100
96)	pIsopropylto	14.98	119	1408955	3.8956 ug/L		100
97)	14dichlorobe	15.05	146	732385	3.6851 ug/L		100
98)	12dichlorobe	15.60	146	680040	3.7102 ug/L		100
99)	nButylbenzen	15.58	91	1230969	3.8621 ug/L		100
100)	12dibromo3cl	16.70	157	40970	3.9047 ug/L		100
101)	135Trichlorobenzene	17.00	180	533145	3.8775 ug/L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW5.D Vial: 9
Acq On : 15 Mar 2017 19:43 Operator: RLD-AGK
Sample : CALIB. PT. 5 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: Mar 16 07:57:41 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:57:36 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	424383	3.8179	ug/L	100
103) Hexachlorobu	18.05	225	244568	3.8568	ug/L	100
104) Naphthalene	18.13	128	722422	4.0601	ug/L	100
105) 123Trichlben	18.44	180	374995	3.9373	ug/L	100

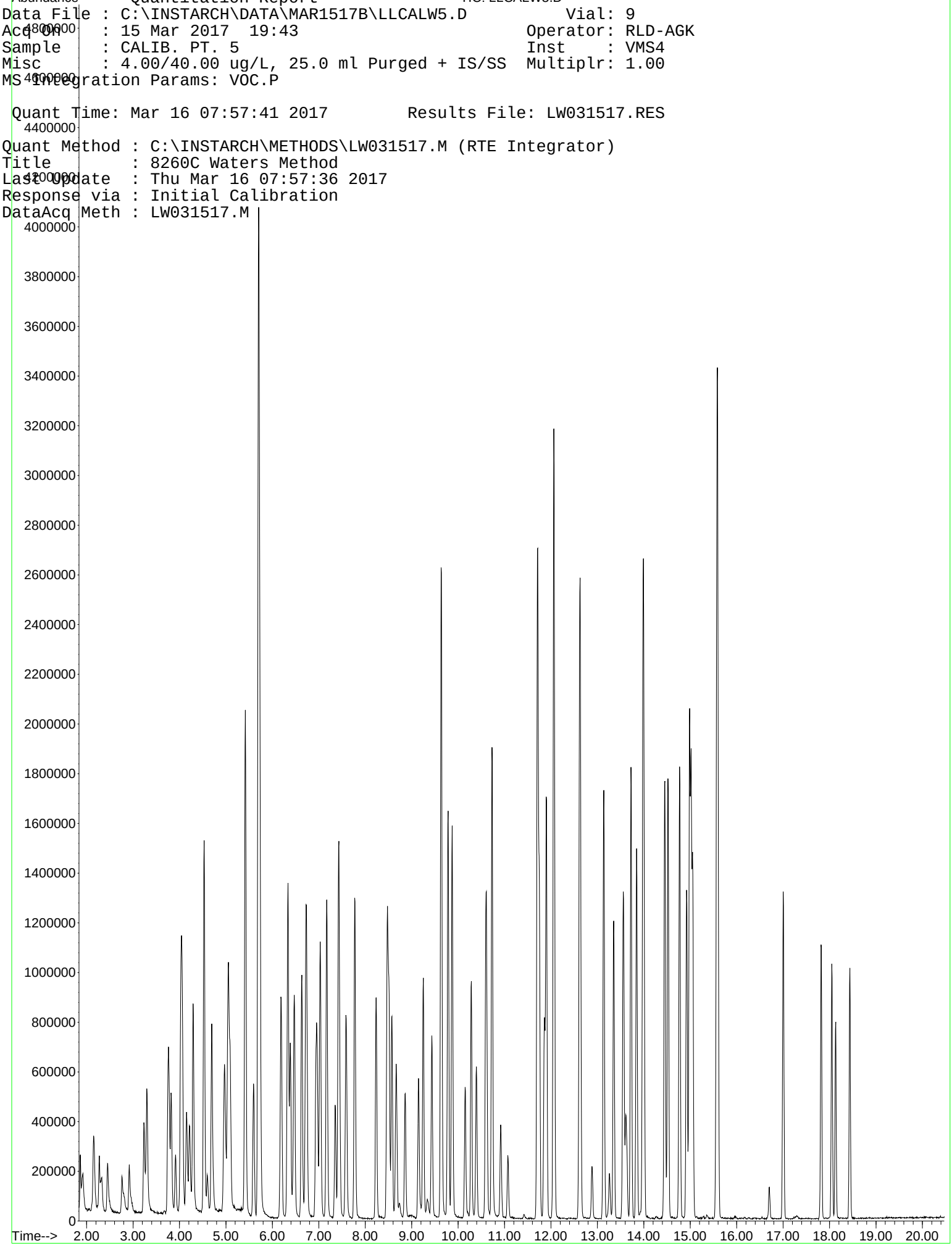
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALW5.D

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW5.D Vial: 9
Acq On : 15 Mar 2017 19:43 Operator: RLD-AGK
Sample : CALIB. PT. 5 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: Mar 16 07:57:41 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:57:36 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW6.D Vial: 10
Acq On : 15 Mar 2017 20:12 Operator: RLD-AGK
Sample : CALIB. PT. 6 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: Mar 16 07:44:39 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:44:30 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.77	96	1333032	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1058320	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	604090	4.00 ug/L	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.93	113	336309	4.053 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101 %		
45) SURR12DCAd4	7.35	102	71337	4.035 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 101 %		
61) SURRd8Tolule	9.79	98	1308651	3.960 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 99 %		
83) SURR4BrFBenz	13.35	95	493478	4.012 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	1.87	85	606827	5.5440 ug/L	99
3) Chloromethan	2.15	50	810527	5.0305 ug/L	98
4) VinylChlorid	2.27	62	671908	5.5340 ug/L	100
5) Bromomethane	2.76	94	304869	5.0486 ug/L	98
6) Chloroethane	2.92	64	352451	4.9359 ug/L	96
7) Dichloroflmethane	3.23	67	866773	5.6231 ug/L	99
8) Trichlorofma	3.30	101	738197	5.6395 ug/L	97
9) Ethylether	3.75	59	359909	5.7751 ug/L	90
10) dichlorotfluoroethan	3.77	67	519564	5.6461 ug/L	94
11) propyleneoxide	3.81	58	511807	57.1100 ug/L	91
12) Acrolein	3.91	56	324139	28.6135 ug/L	98
13) 11dichlorthe	4.03	96	433350	5.7706 ug/L	93
14) Trichlorotfluoroeth	4.06	101	863200	11.2522 ug/L	98
15) Acetone	4.13	43	929897	36.4022 ug/L	95
16) Iodomethane	4.22	142	954199	15.6004 ug/L	95
17) Carbon Dislf	4.30	76	2027926	11.3048 ug/L	99
18) allylchloride	4.53	41	1765846	11.0688 ug/L	95
19) methylacetate	4.59	74	40463	5.8783 ug/L	97
20) Methylchlorid	4.69	84	519362	2.7590 ug/L #	83
21) tbutylalcohol	4.90	59	1181266	291.6262 ug/L	98
22) Acrylonitrile	5.02	53	563241	28.2375 ug/L	99
23) t12dichlorte	5.06	96	450170	5.6464 ug/L #	86
24) MtBE	5.08	73	954525	5.8445 ug/L	94
25) Hexane	5.43	57	1547024	12.1152 ug/L	97
26) 11dichlorota	5.60	63	972112	5.4833 ug/L	100
27) Vinylacetate	5.69	43	7871428	73.0280 ug/L	99
28) chloroprene	5.72	53	1813533	11.6373 ug/L	99
29) Diisopether	5.72	45	2114516	5.6945 ug/L	98
30) ETBE	6.17	59	1401999	5.9302 ug/L	100
31) 22dichloropr	6.33	77	615291	6.0174 ug/L	98
32) c12dichlorte	6.34	96	548635	5.5259 ug/L	97
33) 2Butanone	6.36	72	267746	54.0238 ug/L	97
34) propionitrile	6.43	54	389222	55.8888 ug/L	99
35) Ethylacetate	6.46	88	48882	31.3515 ug/L	94
36) methacrylonitrile	6.62	67	217373	12.0199 ug/L	99
37) Bromochlorma	6.63	128	229111	5.4385 ug/L	96
38) Tetrahydofur	6.70	42	1074293	54.3045 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW6.D Vial: 10
Acq On : 15 Mar 2017 20:12 Operator: RLD-AGK
Sample : CALIB. PT. 6 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: Mar 16 07:44:39 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:44:30 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.74	83	873727	5.4034 ug/L		100
40)	111trichlota	6.96	97	742977	5.9819 ug/L		99
42)	Cyclohexane	7.04	56	962196	5.7566 ug/L		99
43)	Carbtetraclo	7.18	119	552149	7.6628 ug/L		98
44)	11dicloprope	7.17	110	240364	5.6823 ug/L		97
46)	Benzene	7.43	78	1973521	5.5106 ug/L		100
47)	12dichlorota	7.44	62	607271	5.4383 ug/L		100
48)	TAME	7.58	73	1036804	5.9931 ug/L		97
49)	trichloroete	8.24	95	507424	5.5864 ug/L		96
50)	methylcyclohexane	8.48	83	786252	5.9004 ug/L		99
51)	12dicloropra	8.51	63	585189	5.5930 ug/L		92
52)	23Dicl1propene	8.57	75	727021	5.7776 ug/L		100
53)	Dibromometha	8.65	93	239022	5.5411 ug/L		97
54)	methylmethacrylate	8.67	69	203846	6.3722 ug/L		98
55)	14dioxane	8.69	88	82928	331.8968 ug/L	#	41
56)	Bromodiclrma	8.86	83	603633	6.3557 ug/L		98
57)	2Nitropropane	9.14	43	707282	69.4662 ug/L		96
58)	2CLEVE	9.24	63	618245	31.7979 ug/L		98
59)	c13dicloproe	9.43	75	643177	6.2060 ug/L		98
60)	4Meth2Pentan	9.63	43	3531775	55.7794 ug/L		100
62)	Toluene	9.87	92	1235446	5.6028 ug/L		100
63)	t13Dicloprop	10.15	75	458566	6.4715 ug/L		99
64)	ethylmethacrylate	10.28	69	818480	12.7941 ug/L		99
65)	112Triclotha	10.39	83	287950	5.5799 ug/L		98
66)	Tetrachlorte	10.60	166	595731	5.7782 ug/L		100
67)	13Diclorpropa	10.61	76	577461	5.6665 ug/L		100
69)	2Hexanone	10.72	43	2488046	59.0155 ug/L		99
70)	Clorodibrmta	10.92	129	406384	6.5198 ug/L		99
71)	12Dibrometha	11.07	107	321518	6.0838 ug/L		95
72)	Chlorobenzen	11.75	112	1369761	5.4852 ug/L		97
73)	1Clhexane	11.71	91	643003	5.5996 ug/L		99
74)	1112Tetclota	11.86	131	468176	6.3819 ug/L		98
75)	Ethylbenzene	11.90	91	2308224	5.6519 ug/L		99
76)	m p-Xylene	12.06	106	1826722	11.5373 ug/L		98
77)	o-Xylene	12.62	106	905574	5.9825 ug/L		100
78)	Styrene	12.63	104	1484326	6.0787 ug/L		100
79)	Bromoform	12.88	173	221382	6.6887 ug/L		96
80)	Isopropylben	13.14	105	2276363	5.9004 ug/L		100
81)	cyclohexanone	13.25	55	157196	118.3338 ug/L		97
84)	Bromobenzene	13.56	156	599521	5.5233 ug/L		99
85)	1122Tetrclta	13.55	83	380948	5.8905 ug/L		98
86)	123Triclproa	13.61	75	325943	4.9781 ug/L		96
87)	14dichloro2butene	13.64	53	75849	6.3764 ug/L		96
88)	n-Propylbenz	13.72	91	2739423	5.7016 ug/L		99
89)	2chlorotolue	13.84	91	1616247	5.7563 ug/L		97
90)	4chlorotolue	14.00	91	1839478	5.7780 ug/L		99
91)	135Trimebenz	13.98	105	1949053	5.9418 ug/L		98
92)	tbutylbenzen	14.45	119	1717691	5.9016 ug/L		97
93)	124Trimetben	14.52	105	1997821	6.0282 ug/L		99
94)	sbutylbenzen	14.77	105	2544559	5.9812 ug/L		100
95)	13Diclorbenz	14.93	146	1156239	5.6780 ug/L		99
96)	pIsopropylto	14.99	119	2186709	6.0469 ug/L		99
97)	14dichlorobe	15.05	146	1151445	5.7131 ug/L		98
98)	12dichlorobe	15.60	146	1053156	5.6339 ug/L		98
99)	nButylbenzen	15.58	91	1908170	5.9816 ug/L		98
100)	12dibromo3cl	16.70	157	62180	6.0215 ug/L		100
101)	135Trichlorobenzene	17.00	180	822388	6.0808 ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW6.D Vial: 10
Acq On : 15 Mar 2017 20:12 Operator: RLD-AGK
Sample : CALIB. PT. 6 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: Mar 16 07:44:39 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:44:30 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	690193	6.4199	ug/L	99
103) Hexachlorobu	18.05	225	383825	6.1685	ug/L	99
104) Naphthalene	18.13	128	1103438	6.3131	ug/L	99
105) 123Trichlben	18.44	180	589778	6.3602	ug/L	99

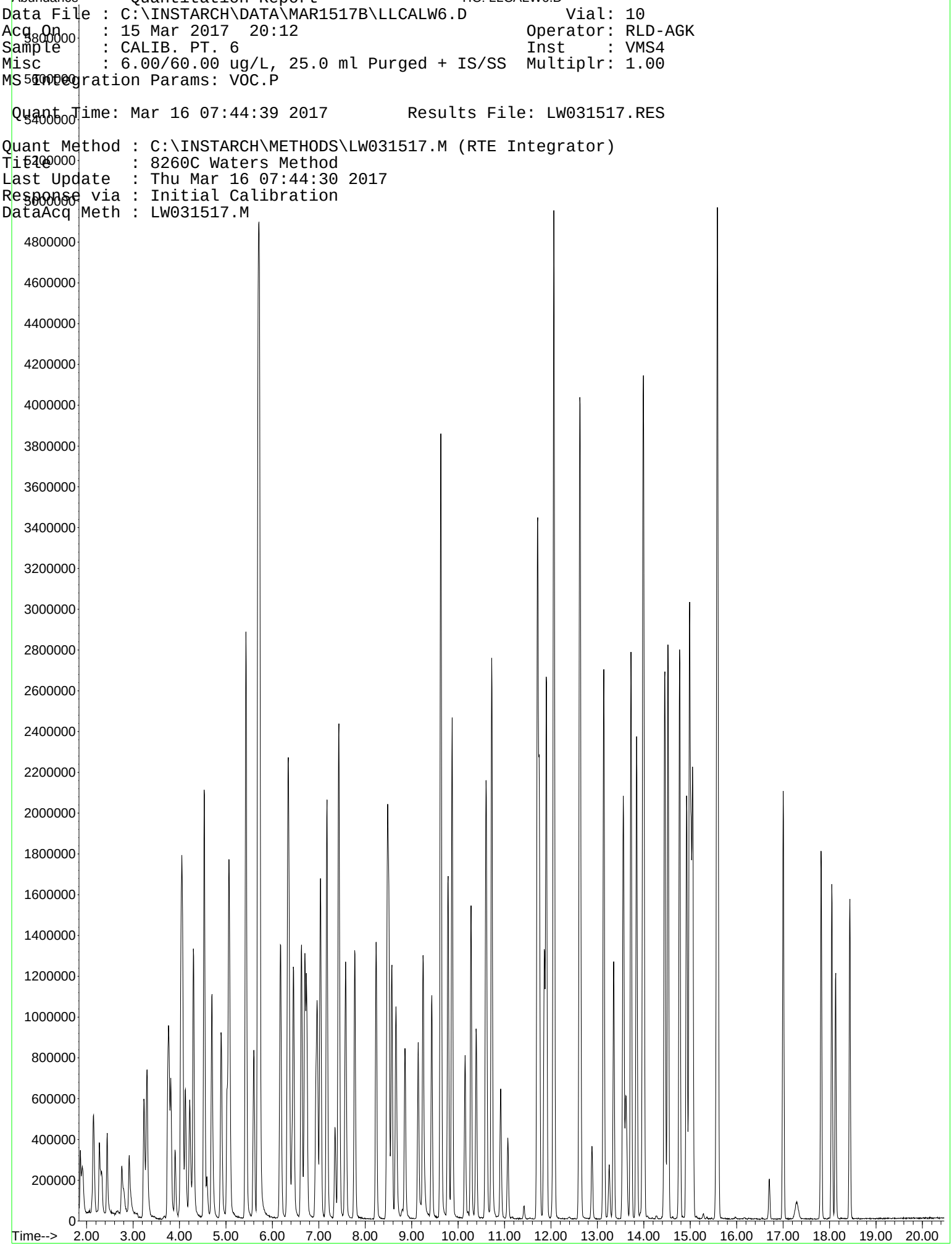
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALW6.D

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW6.D Vial: 10
Acq On : 15 Mar 2017 20:12 Operator: RLD-AGK
Sample : CALIB. PT. 6 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: Mar 16 07:44:39 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:44:30 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW7.D Vial: 11
Acq On : 15 Mar 2017 20:40 Operator: RLD-AGK
Sample : CALIB. PT. 7 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: Mar 16 07:44:56 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:44:46 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1370161	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1090651	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	617745	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	350096	4.096	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102	%		
45) SURR12DCAd4	7.35	102	68785	3.779	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 94	%		
61) SURRd8Tolule	9.79	98	1354240	3.994	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100	%		
83) SURR4BrFBenz	13.35	95	502095	3.989	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	804421	7.2418	ug/L	98
3) Chloromethan	2.15	50	1086457	6.7419	ug/L	98
4) VinylChlorid	2.28	62	894429	7.2612	ug/L	98
5) Bromomethane	2.76	94	428963	7.0986	ug/L	99
6) Chloroethane	2.92	64	464157	6.5167	ug/L	98
7) Dichloroflmethane	3.23	67	1147580	7.3197	ug/L	100
8) Trichlorofma	3.30	101	981610	7.3696	ug/L	96
9) Ethylether	3.75	59	482014	7.5722	ug/L	90
10) dichlorotfluoroethan	3.77	67	709406	7.5747	ug/L	95
11) propyleneoxide	3.82	58	656135	71.8074	ug/L	92
12) Acrolein	3.91	56	427004	36.9572	ug/L	96
13) 11dichlorthe	4.03	96	594408	7.7502	ug/L	90
14) Trichlorotfluoroeth	4.06	101	1176240	15.0739	ug/L	98
15) Acetone	4.12	43	1230063	50.1341	ug/L	95
16) Iodomethane	4.22	142	1349910	20.4494	ug/L	95
17) Carbon Dislf	4.30	76	2725632	14.9266	ug/L	100
18) allylchloride	4.53	41	2418987	14.9453	ug/L	95
19) methylacetate	4.60	74	54086	7.6757	ug/L	99
20) Methylchlorid	4.70	84	670518	3.8084	ug/L #	82
21) tbutylalcohol	4.90	59	1532242	369.7433	ug/L	100
22) Acrylonitrile	5.02	53	721706	35.5496	ug/L	99
23) t12dichlorte	5.06	96	608895	7.5040	ug/L #	86
24) MtBE	5.08	73	1270089	7.5988	ug/L	95
25) Hexane	5.43	57	2044546	15.5527	ug/L	96
26) 11dichlorota	5.60	63	1326729	7.3868	ug/L	99
27) Vinylacetate	5.69	43	9953887	86.7079	ug/L	97
28) chloroprene	5.72	53	2451699	15.3835	ug/L	99
29) Diisopether	5.72	45	2861577	7.5617	ug/L	99
30) ETBE	6.18	59	1912005	7.8836	ug/L	99
31) 22dichloropr	6.34	77	843413	8.0210	ug/L	99
32) c12dichlorte	6.34	96	743019	7.3782	ug/L	98
33) 2Butanone	6.36	72	359261	71.7152	ug/L	96
34) propionitrile	6.43	54	502129	70.9578	ug/L	99
35) Ethylacetate	6.45	88	66533	41.2066	ug/L #	95
36) methacrylonitrile	6.62	67	290419	15.6196	ug/L	96
37) Bromochlorma	6.63	128	301472	7.0726	ug/L	97
38) Tetrahydofur	6.70	42	1383234	69.1200	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW7.D Vial: 11
Acq On : 15 Mar 2017 20:40 Operator: RLD-AGK
Sample : CALIB. PT. 7 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: Mar 16 07:44:56 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:44:46 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.74	83	1195702	7.3155	ug/L		98
40)	111trichlota	6.97	97	1024625	8.0301	ug/L		99
42)	Cyclohexane	7.04	56	1296354	7.5970	ug/L		98
43)	Carbtetraclo	7.18	119	777872	10.0392	ug/L		97
44)	11dicloprope	7.18	110	326939	7.5865	ug/L		97
46)	Benzene	7.43	78	2674095	7.3645	ug/L		100
47)	12dichlorota	7.44	62	795417	7.0400	ug/L		100
48)	TAME	7.58	73	1408675	7.9235	ug/L		96
49)	trichloroete	8.23	95	682685	7.3972	ug/L		96
50)	methylcyclohexane	8.48	83	1061495	7.7715	ug/L		99
51)	12dicloropra	8.51	63	788291	7.4138	ug/L		92
52)	23Dicl1propene	8.57	75	1000632	7.7845	ug/L		99
53)	Dibromometha	8.65	93	322269	7.3623	ug/L		99
54)	methylmethacrylate	8.67	69	262098	7.8895	ug/L		97
55)	14dioxane	8.69	88	98153	375.5311	ug/L	#	40
56)	Bromodiclrma	8.86	83	812139	8.2380	ug/L		98
57)	2Nitropropane	9.14	43	961366	89.5089	ug/L		98
58)	2CLEVE	9.24	63	815025	40.3796	ug/L		99
59)	c13dicloproe	9.43	75	879205	8.2066	ug/L		98
60)	4Meth2Pentan	9.63	43	4519984	70.2763	ug/L		99
62)	Toluene	9.87	92	1666532	7.4351	ug/L		97
63)	t13Dicloprop	10.15	75	616069	8.3493	ug/L		99
64)	ethylmethacrylate	10.28	69	1106565	16.6450	ug/L		99
65)	112Triclotha	10.39	83	382839	7.3028	ug/L		98
66)	Tetrachlorte	10.60	166	803689	7.6311	ug/L		99
67)	13Diclorpropa	10.61	76	749542	7.2227	ug/L		100
69)	2Hexanone	10.72	43	3186747	73.5488	ug/L		98
70)	Clorodibrmta	10.92	129	545663	8.3739	ug/L		98
71)	12Dibrometha	11.08	107	422830	7.7456	ug/L		95
72)	Chlorobenzen	11.75	112	1847437	7.2829	ug/L		98
73)	1Clhexane	11.71	91	869553	7.4306	ug/L		98
74)	1112Tetclota	11.85	131	634259	8.3015	ug/L		99
75)	Ethylbenzene	11.90	91	3095504	7.4268	ug/L		97
76)	m p-Xylene	12.06	106	2478670	15.2891	ug/L		95
77)	o-Xylene	12.62	106	1228944	7.8819	ug/L		99
78)	Styrene	12.63	104	2008998	7.9661	ug/L		100
79)	Bromoform	12.88	173	311308	8.9555	ug/L		98
80)	Isopropylben	13.14	105	3033173	7.6502	ug/L		99
81)	cyclohexanone	13.25	55	184782	135.2896	ug/L		95
84)	Bromobenzene	13.56	156	814578	7.4372	ug/L		98
85)	1122Tetrclta	13.55	83	506593	7.6835	ug/L		97
86)	123Triclproa	13.61	75	448755	6.8981	ug/L		99
87)	14dichloro2butene	13.64	53	101435	8.2525	ug/L		89
88)	n-Propylbenz	13.72	91	3679354	7.5512	ug/L		99
89)	2chlorotolue	13.84	91	2172022	7.6162	ug/L		96
90)	4chlorotolue	14.00	91	2477599	7.6576	ug/L		99
91)	135Trimebenz	13.98	105	2640144	7.8835	ug/L		98
92)	tbutylbenzen	14.45	119	2347096	7.9074	ug/L		99
93)	124Trimetben	14.52	105	2678262	7.8965	ug/L		99
94)	sbutylbenzen	14.77	105	3391403	7.7996	ug/L		100
95)	13Diclorbenz	14.92	146	1547547	7.4987	ug/L		98
96)	pIsopropylto	14.98	119	2926712	7.9040	ug/L		99
97)	14dichlorobe	15.05	146	1538840	7.5264	ug/L		99
98)	12dichlorobe	15.60	146	1411900	7.4620	ug/L		98
99)	nButylbenzen	15.58	91	2554955	7.8361	ug/L		98
100)	12dibromo3cl	16.70	157	84457	7.9932	ug/L		99
101)	135Trichlorobenzene	17.00	180	1123177	8.1031	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW7.D Vial: 11
Acq On : 15 Mar 2017 20:40 Operator: RLD-AGK
Sample : CALIB. PT. 7 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: Mar 16 07:44:56 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:44:46 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	918446	8.2579	ug/L	98
103) Hexachlorobu	18.05	225	508377	7.9524	ug/L	98
104) Naphthalene	18.13	128	1424173	7.8993	ug/L	99
105) 123Trichlben	18.44	180	778994	8.1336	ug/L	100

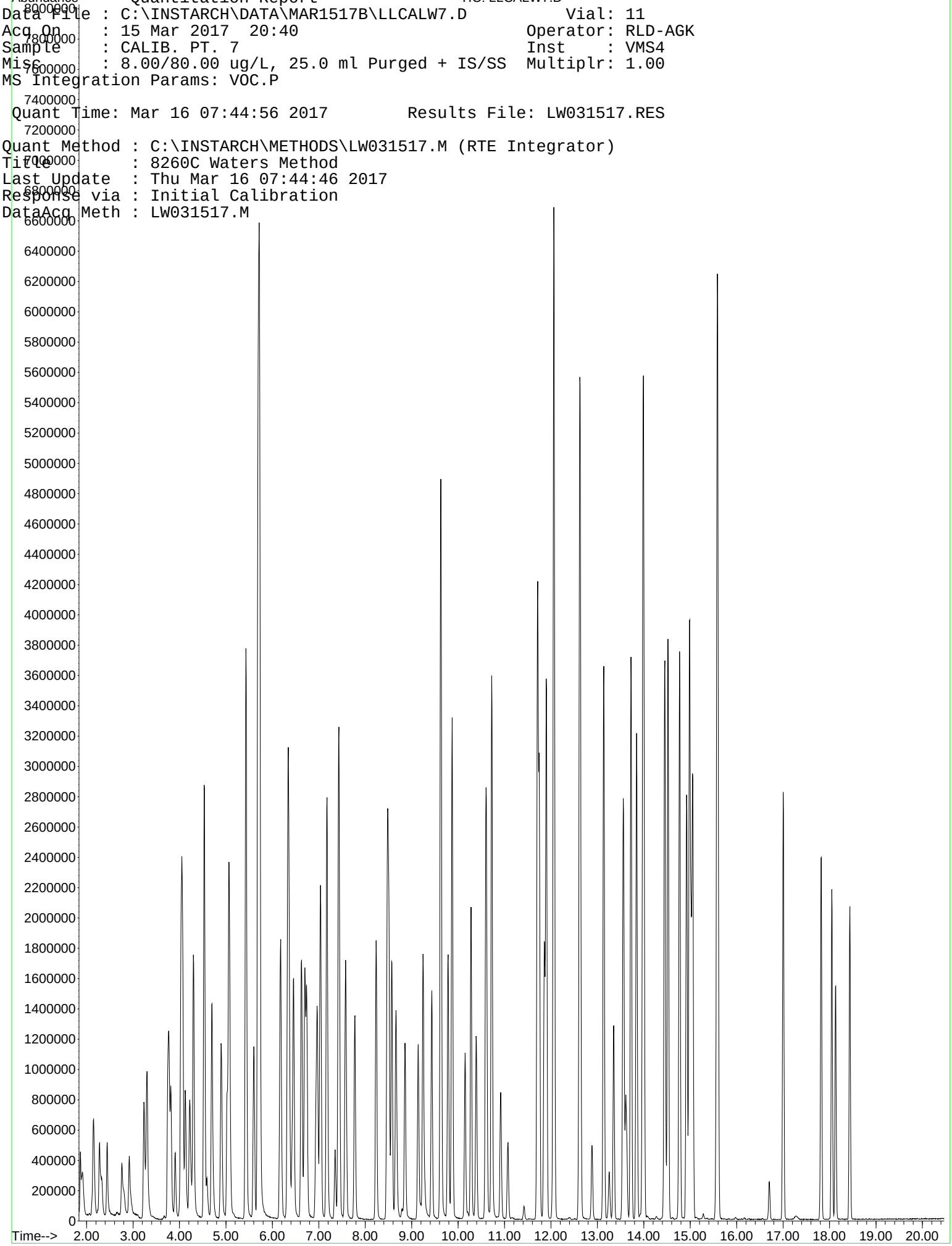
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: LLCALW7.D)

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW7.D Vial: 11
Acq On : 15 Mar 2017 20:40 Operator: RLD-AGK
Sample : CALIB. PT. 7 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: Mar 16 07:44:56 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:44:46 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW8.D Vial: 12
Acq On : 15 Mar 2017 21:09 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 16 07:45:15 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:06 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1394477	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1115686	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	639656	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	362924	4.157	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 104 %			
45) SURR12DCAd4	7.35	102	67771	3.688	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 92 %			
61) SURRd8Tolule	9.79	98	1393364	4.038	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101 %			
83) SURR4BrFBenz	13.35	95	512354	3.933	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 98 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	1679714	15.0619	ug/L	100
3) Chloromethan	2.15	50	2231785	13.9204	ug/L	98
4) VinylChlorid	2.27	62	1849526	14.9503	ug/L	99
5) Bromomethane	2.76	94	943725	15.5958	ug/L	97
6) Chloroethane	2.92	64	962008	13.6321	ug/L	97
7) Dichloroflmethane	3.23	67	2377759	15.0850	ug/L	92
8) Trichlorofma	3.30	101	2037587	15.2020	ug/L	98
9) Ethylether	3.75	59	1035849	16.1119	ug/L	88
10) dichlorotfluoroethan	3.77	67	1469057	15.5302	ug/L	95
11) propyleneoxide	3.81	58	1438218	156.9500	ug/L	91
12) Acrolein	3.90	56	919429	79.0480	ug/L	96
13) 11dichlorthe	4.03	96	1227820	15.8003	ug/L	91
14) Trichlorotfluoroeth	4.06	101	2465329	31.3019	ug/L	98
15) Acetone	4.12	43	2339171	98.9533	ug/L	95
16) Iodomethane	4.22	142	2977752	42.6290	ug/L	96
17) Carbon Dislf	4.30	76	5583072	30.3326	ug/L	98
18) allylchloride	4.54	41	4728149	28.9756	ug/L	94
19) methylacetate	4.59	74	113230	15.8963	ug/L	98
20) Methylchlorid	4.70	84	1382217	8.3378	ug/L #	81
21) tbutylalcohol	4.90	59	3245796	777.9880	ug/L	99
22) Acrylonitrile	5.02	53	1504625	73.9981	ug/L	100
23) t12dichlorte	5.06	96	1285017	15.6995	ug/L #	85
24) MtBE	5.08	73	2693475	15.9480	ug/L	95
25) Hexane	5.43	57	4269048	32.0360	ug/L	97
26) 11dichlorota	5.60	63	2727515	15.0863	ug/L	99
27) Vinylacetate	5.69	43	15821480	133.8142	ug/L	89
28) chloroprene	5.72	53	4880137	30.2537	ug/L	98
29) Diisopether	5.72	45	5604212	14.6657	ug/L	96
30) ETBE	6.17	59	3970824	16.1206	ug/L	98
31) 22dichloropr	6.34	77	1823601	17.0339	ug/L	99
32) c12dichlorte	6.34	96	1546217	15.2556	ug/L	97
33) 2Butanone	6.36	72	752066	149.7236	ug/L	95
34) propionitrile	6.43	54	1057368	149.2247	ug/L	99
35) Ethylacetate	6.46	88	134859	81.7151	ug/L	97
36) methacrylonitrile	6.62	67	612140	32.4589	ug/L	98
37) Bromochlorma	6.63	128	616867	14.4589	ug/L	98
38) Tetrahydofur	6.70	42	2861312	143.2697	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW8.D Vial: 12
Acq On : 15 Mar 2017 21:09 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 16 07:45:15 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:06 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.74	83	2478349	15.0829 ug/L		100
40)	111trichlota	6.97	97	2174403	16.7348 ug/L		98
42)	Cyclohexane	7.04	56	2732898	15.8504 ug/L		99
43)	Carbtetraclo	7.18	119	1750221	21.4145 ug/L		99
44)	11dicloprope	7.18	110	719278	16.5215 ug/L		97
46)	Benzene	7.43	78	5349942	14.6431 ug/L		98
47)	12dichlorota	7.44	62	1657587	14.6664 ug/L		99
48)	TAME	7.58	73	3010617	16.6616 ug/L		94
49)	trichloroete	8.23	95	1446830	15.5713 ug/L		97
50)	methylcyclohexane	8.48	83	2280897	16.4752 ug/L		98
51)	12dicloropra	8.51	63	1658264	15.4860 ug/L		91
52)	23Dicl1propene	8.57	75	2123990	16.2984 ug/L		98
53)	Dibromometha	8.65	93	692182	15.7163 ug/L		98
54)	methylmethacrylate	8.67	69	571447	16.9348 ug/L		97
55)	14dioxane	8.69	88	194221	736.5644 ug/L	#	35
56)	Bromodiclrma	8.86	83	1766610	17.5327 ug/L		98
57)	2Nitropropane	9.14	43	2216763	199.4089 ug/L		96
58)	2CLEVE	9.24	63	1890058	91.8836 ug/L		99
59)	c13dicloproe	9.43	75	1968029	17.9832 ug/L		98
60)	4Meth2Pentan	9.63	43	8416680	130.8519 ug/L		92
62)	Toluene	9.87	92	3447566	15.2668 ug/L		94
63)	t13Dicloprop	10.15	75	1429945	18.9235 ug/L		99
64)	ethylmethacrylate	10.28	69	2346994	34.4894 ug/L		98
65)	112Triclotha	10.39	83	801974	15.2208 ug/L		98
66)	Tetrachlorte	10.60	166	1711076	16.0693 ug/L		99
67)	13Diclorpropa	10.61	76	1584127	15.2098 ug/L		99
69)	2Hexanone	10.72	43	6268111	143.0674 ug/L		94
70)	Clorodibrmta	10.92	129	1207522	17.9950 ug/L		98
71)	12Dibrometha	11.07	107	905436	16.2880 ug/L		97
72)	Chlorobenzen	11.75	112	3785250	14.7765 ug/L		98
73)	1Clhexane	11.71	91	1895583	15.9976 ug/L		97
74)	1112Tetclota	11.85	131	1384334	17.6174 ug/L		99
75)	Ethylbenzene	11.90	91	6204547	14.7025 ug/L		95
76)	m p-Xylene	12.06	106	5000622	30.3457 ug/L	#	86
77)	o-Xylene	12.62	106	2572109	16.1603 ug/L		94
78)	Styrene	12.63	104	4145154	16.0773 ug/L		97
79)	Bromoform	12.88	173	691921	19.1316 ug/L		98
80)	Isopropylben	13.14	105	6033816	14.9703 ug/L		95
81)	cyclohexanone	13.25	55	398966	291.9937 ug/L		98
84)	Bromobenzene	13.56	156	1724926	15.3638 ug/L		99
85)	1122Tetrclta	13.55	83	1069818	15.7592 ug/L		97
86)	123Triclproa	13.61	75	978187	14.8127 ug/L		98
87)	14dichloro2butene	13.64	53	237430	18.5713 ug/L		84
88)	n-Propylbenz	13.72	91	7105402	14.1968 ug/L		93
89)	2chlorotolue	13.84	91	4425216	15.0889 ug/L		95
90)	4chlorotolue	14.00	91	5092610	15.2943 ug/L		97
91)	135Trimebenz	13.98	105	5302274	15.3221 ug/L		94
92)	tbutylbenzen	14.45	119	4741505	15.4526 ug/L		96
93)	124Trimetben	14.52	105	5359950	15.2901 ug/L		97
94)	sbutylbenzen	14.77	105	6635186	14.7899 ug/L		96
95)	13Diclorbenz	14.93	146	3227134	15.2379 ug/L		98
96)	pIsopropylto	14.99	119	5814088	15.1900 ug/L		95
97)	14dichlorobe	15.05	146	3240107	15.4349 ug/L		100
98)	12dichlorobe	15.60	146	2938449	15.1434 ug/L		99
99)	nButylbenzen	15.58	91	5200224	15.4481 ug/L		94
100)	12dibromo3cl	16.70	157	187070	17.1003 ug/L		98
101)	135Trichlorobenzene	17.01	180	2402610	16.7089 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW8.D Vial: 12
Acq On : 15 Mar 2017 21:09 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 16 07:45:15 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:06 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	2003869	17.3202 ug/L	98
103) Hexachlorobu	18.05	225	1127876	17.0532 ug/L	99
104) Naphthalene	18.13	128	3078718	16.5211 ug/L	100
105) 123Trichlben	18.44	180	1686140	16.9618 ug/L	99

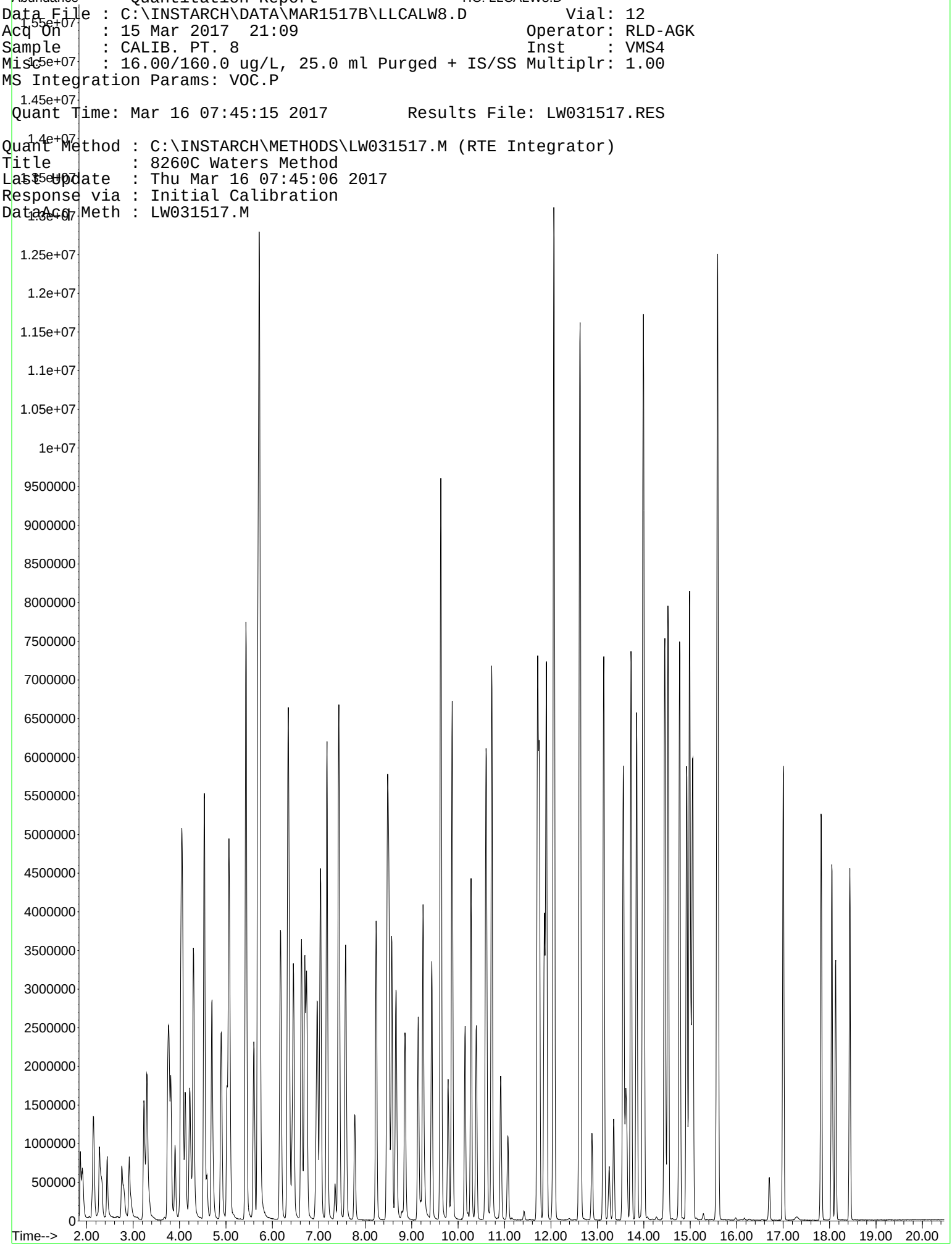
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALW8.D

Data File : C:\INSTARCH\DATA\MAR1517B\LLCALW8.D Vial: 12
Acq On : 15 Mar 2017 21:09 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 16 07:45:15 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 07:45:06 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\MAR1517B\ICV1.D Vial: 14
Acq On : 15 Mar 2017 22:06 Operator: RLD-AGK
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: Mar 16 08:03:31 2017

Quant Method : C:\INSTARCH\METHODS\LW031517.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW031517.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	104	0.00
2	PT	Dichlorodi	0.3175	0.2930	7.72	99	0.00
3	PT	Chloromethan	0.4367	0.3759	13.92	96	0.00
4	PT	VinylChlorid	0.3520	0.3174	9.83	98	0.00
5	PT	Bromomethane	0.1581	0.1593	-0.76	121	0.00
6	PT	Chloroethane	0.1879	0.1637	12.88	98	0.00
7	T	Dichloroflmethane	0.4489	0.4044	9.91	101	0.00
8	PT	Trichlorofma	0.3821	0.3524	7.77	102	0.00
9	T	Ethylether	0.1846	0.1759	4.71	106	0.00
10	T	dichlorotfluoroethan	0.2703	0.2383	11.84	97	0.00
11	T	propyleneoxide	0.0262	0.0244#	6.87	92	0.00
12	T	Acrolein	0.0333	0.0310	6.91	93	-0.01
13	PT	11dichlorthe	0.2226	0.2030	8.81	105	0.00
14	PT	Trichlorotfluoroeth	0.2253	0.2105	6.57	109	0.00
15	PT	Acetone	0.0583	0.0455#	21.96#	90	-0.02
16	T	Iodomethane	0.2087	0.1861	10.83	92	0.00
17	PT	Carbon Dislf	0.5245	0.4993	4.80	108	0.01
18	T	allylchloride	0.4625	0.4153	10.21	88	0.00
19	PT	methylacetate	0.0198	0.0196#	1.01	93	0.00
20	PT	Methylchlorid	0.3756	0.2409	35.86#	104	0.00
21	T	tbutylalcohol	0.0119	0.0097#	18.49	65	-0.07
22	T	Acrylonitrile	0.0578	0.0505	12.63	87	-0.01
23	PT	t12dichlorte	0.2342	0.2148	8.28	115	0.01
24	PT	MtBE	0.4843	0.4627	4.46	102	-0.01
25	T	Hexane	0.3823	0.3631	5.02	97	0.01
26	PT	11dichlorota	0.5149	0.4541	11.81	100	0.00
27	T	Vinylacetate	0.3447	0.3813	-10.62	93	0.00
28	T	chloroprene	0.4595	0.4341	5.53	98	0.00
29	T	Diisopether	1.0847	1.0067	7.19	99	0.00
30	T	ETBE	0.7072	0.6848	3.17	104	-0.01
31	T	22dichloropr	0.3096	0.2809	9.27	103	0.00
32	PT	c12dichlorte	0.2890	0.2497	13.60	98	0.00
33	PT	2Butanone	0.0143	0.0128#	10.49	95	-0.02
34	T	propionitrile	0.0202	0.0178#	11.88	90	-0.02
35	T	Ethylacetate	0.0047	0.0046#	2.13	97	-0.01
36	T	methacrylonitrile	0.0542	0.0503	7.20	89	-0.01
37	T	Bromochlorma	0.1209	0.1057	12.57	96	0.00
38	T	Tetrahydofur	0.0565	0.0485	14.16	89	-0.02
39	PT	Chloroform	0.4680	0.4149	11.35	99	0.00
40	PT	111trichlota	0.3748	0.3465	7.55	99	0.00
41	S	SURRDibrflma	0.2516	0.2547	-1.23	104	0.00
42	PT	Cyclohexane	0.4940	0.4728	4.29	101	0.00
43	PT	Carbtetraclo	0.2533	0.2469	2.53	104	0.00
44	T	11dicloprope	0.1254	0.1199	4.39	103	0.00
45	S	SURR12DCAd4	0.0522	0.0531	-1.72	102	0.00
46	PT	Benzene	1.0369	0.9274	10.56	98	0.00
47	PT	12dichlorota	0.3208	0.2827	11.88	97	0.00
48	T	TAME	0.5210	0.4824	7.41	99	-0.01

49	PT	trichloroete	0.2656	0.2357	11.26	94	0.00
50	PT	methylcyclohexane	0.3986	0.3858	3.21	101	0.00
51	PT	12dicloropra	0.3059	0.2731	10.72	100	0.00
52	T	23Dicl1propene	0.3747	0.3413	8.91	98	0.00
53	T	Dibromometha	0.1261	0.1106	12.29	94	0.00
54	T	methylmethacrylate	0.0975	0.0909	6.77	96	0.00
55	T	14dioxane	0.0009	0.0005#	44.44#	59	0.00
56	PT	Bromodiclrma	0.2925	0.2791	4.58	103	0.00
57	T	2Nitropropane	0.0329	0.0303	7.90	92	0.00
58	T	2CLEVE	0.0601	0.0599	0.33	89	0.00
59	PT	c13dicloproe	0.3188	0.2860	10.29	90	0.00
60	PT	4Meth2Pentan	0.1803	0.1686	6.49	94	0.00
61	S	SURRd8Tolule	0.9909	0.9782	1.28	103	0.00
62	PT	Toluene	0.6440	0.5776	10.31	99	0.00
63	PT	t13Dicloprop	0.2217	0.1987	10.37	89	0.00
64	T	ethylmethacrylate	0.1971	0.1876	4.82	99	0.00
65	PT	112Triclotha	0.1502	0.1297	13.65	95	0.00
66	PT	Tetrachlorte	0.3056	0.2746	10.14	96	0.00
67	T	13Diclorpropa	0.2969	0.2634	11.28	92	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	101	0.00
69	PT	2Hexanone	0.1550	0.1486	4.13	92	0.00
70	PT	Clorodibrmta	0.2443	0.2270	7.08	97	0.00
71	PT	12Dibrometha	0.1997	0.1858	6.96	95	0.00
72	PT	Chlorobenzen	0.9096	0.8241	9.40	100	0.00
73	T	1Clhexane	0.4248	0.3964	6.69	101	0.00
74	T	1112Tetclota	0.2853	0.2690	5.71	101	0.00
75	PT	Ethylbenzene	1.4977	1.3894	7.23	98	0.00
76	PT	m p-Xylene	0.5870	0.5453	7.10	100	0.00
77	PT	o-Xylene	0.5713	0.5252	8.07	96	0.00
78	PT	Styrene	0.9249	0.8818	4.66	98	0.00
79	PT	Bromoform	0.1328	0.1253	5.65	98	0.00
80	PT	Isopropylben	1.4334	1.3514	5.72	98	0.00
81	T	cyclohexanone	0.0048	0.0035#	27.08#	67	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	98	0.00
83	S	SURR4BrFBenz	0.8129	0.8243	-1.40	102	0.00
84	T	Bromobenzene	0.6986	0.6383	8.63	98	0.00
85	PT	1122Tetrclta	0.4237	0.3995	5.71	99	0.00
86	T	123Triclproa	0.4091	0.3502	14.40	90	0.00
87	T	14dichloro2butene	0.0866	0.0692	20.09#	65	0.00
88	T	n-Propylbenz	3.0857	2.9008	5.99	97	0.00
89	T	2chlorotolue	1.8209	1.6860	7.41	97	0.00
90	T	4chlorotolue	2.0707	1.9257	7.00	97	0.00
91	T	135Trimebenz	2.1525	2.0767	3.52	98	0.00
92	T	tbutylbenzen	1.9106	1.8173	4.88	98	0.00
93	T	124Trimetben	2.1800	2.0943	3.93	98	0.00
94	T	sbutylbenzen	2.7789	2.7379	1.48	99	0.00
95	PT	13Diclorbenz	1.3165	1.1972	9.06	96	0.00
96	T	pIsopropylto	2.3784	2.2767	4.28	96	0.00
97	PT	14dichlorobe	1.3069	1.1916	8.82	97	0.00
98	PT	12dichlorobe	1.2053	1.0969	8.99	96	0.00
99	T	nButylbenzen	2.0960	1.9945	4.84	96	0.00
100	PT	12dibromo3cl	0.0690	0.0610	11.59	88	0.00
101	T	135Trichlorobenzene	0.9042	0.8418	6.90	94	0.00
102	PT	124Trichlobe	0.7309	0.6787	7.14	95	0.00
103	T	Hexachlorobu	0.4170	0.4077	2.23	99	0.00
104	T	Naphthalene	1.1701	1.1072	5.38	91	0.00
105	T	123Trichlben	0.6263	0.5859	6.45	93	0.00

(#) = Out of Range SPCC's out = 3 CCC's out = 0

LW031517.M Fri Mar 17 10:26:24 2017

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\MAR1517B\ICV1.D Vial: 14
Acq On : 15 Mar 2017 22:06 Operator: RLD-AGK
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: Mar 16 08:03:31 2017

Quant Method : C:\INSTARCH\METHODS\LW031517.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW031517.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	104	0.00
2	PT	Dichlorodi	4.0000	3.6910	7.73	99	0.00
3	PT	Chloromethan	4.0000	3.4435	13.91	96	0.00
4	PT	VinylChlorid	4.0000	3.6072	9.82	98	0.00
5	PT	Bromomethane	4.0000	4.0316	-0.79	121	0.00
6	PT	Chloroethane	4.0000	3.4835	12.91	98	0.00
7	T	Dichloroflmethane	4.0000	3.6037	9.91	101	0.00
8	PT	Trichlorofma	4.0000	3.6889	7.78	102	0.00
9	T	Ethylether	4.0000	3.8118	4.71	106	0.00
10	T	dichlorotfluoroethan	4.0000	3.5259	11.85	97	0.00
11	T	propyleneoxide	40.0000	37.2781	6.80	92	0.00
12	T	Acrolein	20.0000	18.6230	6.88	93	-0.01
13	PT	11dichlorthe	4.0000	3.6484	8.79	105	0.00
14	PT	Trichlorotfluoroeth	8.0000	7.4732	6.58	109	0.00
15	PT	Acetone	40.0000	36.7409	8.15	90	-0.02
16	T	Iodomethane	8.0000	6.6965	16.29	92	0.00
17	PT	Carbon Dislf	8.0000	7.6148	4.82	108	0.01
18	T	allylchloride	8.0000	7.1834	10.21	88	0.00
19	PT	methylacetate	4.0000	3.9522	1.20	93	0.00
20	PT	Methylchlorid	4.0000	3.6835	7.91	104	0.00
21	T	tbutylalcohol	200.0000	161.8804	19.06	65	-0.07
22	T	Acrylonitrile	20.0000	17.4728	12.64	87	-0.01
23	PT	t12dichlorte	4.0000	3.6687	8.28	115	0.01
24	PT	MtBE	4.0000	3.8220	4.45	102	-0.01
25	T	Hexane	8.0000	7.5980	5.03	97	0.01
26	PT	11dichlorota	4.0000	3.5279	11.80	100	0.00
27	T	Vinylacetate	40.0000	37.4023	6.49	93	0.00
28	T	chloroprene	8.0000	7.5576	5.53	98	0.00
29	T	Diisopether	4.0000	3.7123	7.19	99	0.00
30	T	ETBE	4.0000	3.8730	3.17	104	-0.01
31	T	22dichloropr	4.0000	3.6299	9.25	103	0.00
32	PT	c12dichlorte	4.0000	3.4557	13.61	98	0.00
33	PT	2Butanone	40.0000	35.8436	10.39	95	-0.02
34	T	propionitrile	40.0000	35.3376	11.66	90	-0.02
35	T	Ethylacetate	20.0000	19.2457	3.77	97	-0.01
36	T	methacrylonitrile	8.0000	7.4226	7.22	89	-0.01
37	T	Bromochlorma	4.0000	3.4983	12.54	96	0.00
38	T	Tetrahydofur	40.0000	34.2860	14.28	89	-0.02
39	PT	Chloroform	4.0000	3.5462	11.35	99	0.00
40	PT	111trichlota	4.0000	3.6976	7.56	99	0.00
41	S	SURRDibrflma	4.0000	4.0484	-1.21	104	0.00
42	PT	Cyclohexane	4.0000	3.8280	4.30	101	0.00
43	PT	Carbtetraclo	4.0000	3.8975	2.56	104	0.00
44	T	11dicloprope	4.0000	3.8262	4.34	103	0.00
45	S	SURR12DCAd4	4.0000	4.0657	-1.64	102	0.00
46	PT	Benzene	4.0000	3.5777	10.56	98	0.00
47	PT	12dichlorota	4.0000	3.5249	11.88	97	0.00
48	T	TAME	4.0000	3.7040	7.40	99	-0.01

49	PT	trichloroete	4.0000	3.5489	11.28	94	0.00
50	PT	methylcyclohexane	4.0000	3.8719	3.20	101	0.00
51	PT	12dicloropra	4.0000	3.5713	10.72	100	0.00
52	T	23Dicl1propene	4.0000	3.6434	8.91	98	0.00
53	T	Dibromometha	4.0000	3.5098	12.26	94	0.00
54	T	methylmethacrylate	4.0000	3.7290	6.77	96	0.00
55	T	14dioxane	200.0000	108.8411	45.58#	59	0.00
56	PT	Bromodiclrma	4.0000	3.8172	4.57	103	0.00
57	T	2Nitropropane	40.0000	36.8799	7.80	92	0.00
58	T	2CLEVE	20.0000	19.9251	0.37	89	0.00
59	PT	c13dicloproe	4.0000	3.5881	10.30	90	0.00
60	PT	4Meth2Pentan	40.0000	37.4028	6.49	94	0.00
61	S	SURRd8Tolule	4.0000	3.9488	1.28	103	0.00
62	PT	Toluene	4.0000	3.5872	10.32	99	0.00
63	PT	t13Dicloprop	4.0000	3.5845	10.39	89	0.00
64	T	ethylmethacrylate	8.0000	7.6146	4.82	99	0.00
65	PT	112Triclotha	4.0000	3.4550	13.62	95	0.00
66	PT	Tetrachlorte	4.0000	3.5936	10.16	96	0.00
67	T	13Diclorpropa	4.0000	3.5485	11.29	92	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	101	0.00
69	PT	2Hexanone	40.0000	38.3480	4.13	92	0.00
70	PT	Clorodibrmta	4.0000	3.7160	7.10	97	0.00
71	PT	12Dibrometha	4.0000	3.7210	6.97	95	0.00
72	PT	Chlorobenzen	4.0000	3.6240	9.40	100	0.00
73	T	1Clhexane	4.0000	3.7326	6.68	101	0.00
74	T	1112Tetclota	4.0000	3.7714	5.72	101	0.00
75	PT	Ethylbenzene	4.0000	3.7109	7.23	98	0.00
76	PT	m p-Xylene	8.0000	7.4323	7.10	100	0.00
77	PT	o-Xylene	4.0000	3.6772	8.07	96	0.00
78	PT	Styrene	4.0000	3.8135	4.66	98	0.00
79	PT	Bromoform	4.0000	3.7732	5.67	98	0.00
80	PT	Isopropylben	4.0000	3.7710	5.73	98	0.00
81	T	cyclohexanone	80.0000	58.0710	27.41#	67	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	98	0.00
83	S	SURR4BrFBenz	4.0000	4.0560	-1.40	102	0.00
84	T	Bromobenzene	4.0000	3.6550	8.63	98	0.00
85	PT	1122Tetrclta	4.0000	3.7717	5.71	99	0.00
86	T	123Triclproa	4.0000	3.4240	14.40	90	0.00
87	T	14dichloro2butene	4.0000	3.1967	20.08#	65	0.00
88	T	n-Propylbenz	4.0000	3.7603	5.99	97	0.00
89	T	2chlorotolue	4.0000	3.7037	7.41	97	0.00
90	T	4chlorotolue	4.0000	3.7199	7.00	97	0.00
91	T	135Trimebenz	4.0000	3.8591	3.52	98	0.00
92	T	tbutylbenzen	4.0000	3.8048	4.88	98	0.00
93	T	124Trimetben	4.0000	3.8429	3.93	98	0.00
94	T	sbutylbenzen	4.0000	3.9410	1.48	99	0.00
95	PT	13Diclorbenz	4.0000	3.6377	9.06	96	0.00
96	T	pIsopropylto	4.0000	3.8290	4.27	96	0.00
97	PT	14dichlorobe	4.0000	3.6472	8.82	97	0.00
98	PT	12dichlorobe	4.0000	3.6401	9.00	96	0.00
99	T	nButylbenzen	4.0000	3.8064	4.84	96	0.00
100	PT	12dibromo3cl	4.0000	3.5341	11.65	88	0.00
101	T	135Trichlorobenzene	4.0000	3.7241	6.90	94	0.00
102	PT	124Trichlobe	4.0000	3.7141	7.15	95	0.00
103	T	Hexachlorobu	4.0000	3.9110	2.22	99	0.00
104	T	Naphthalene	4.0000	3.7850	5.37	91	0.00
105	T	123Trichlben	4.0000	3.7417	6.46	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW031517.M Fri Mar 17 10:26:54 2017

Quantitation Report

Data File : C:\Instarch\Data\MAR1517B\ICV1.D Vial: 14
Acq On : 15 Mar 2017 22:06 Operator: RLD-AGK
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: Mar 16 08:03:31 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:18 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1351290	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1052459	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	594279	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	344147	4.048	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101	%		
45) SURR12DCAd4	7.35	102	71695	4.066	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 102	%		
61) SURRd8Tolule	9.79	98	1321843	3.949	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 99	%		
83) SURR4BrFBenz	13.35	95	489874	4.056	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 101	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	395954	3.6910	ug/L	98
3) Chloromethan	2.15	50	507972	3.4435	ug/L	98
4) VinylChlorid	2.27	62	428891	3.6072	ug/L	100
5) Bromomethane	2.76	94	215321	4.0316	ug/L	99
6) Chloroethane	2.92	64	221181	3.4835	ug/L	96
7) Dichloroflmethane	3.23	67	546505	3.6037	ug/L	99
8) Trichlorofma	3.30	101	476141	3.6889	ug/L	97
9) Ethylether	3.75	59	237681	3.8118	ug/L	89
10) dichlorotfluoroethan	3.77	67	322010	3.5259	ug/L	94
11) propyleneoxide	3.82	58	330231	37.2781	ug/L	89
12) Acrolein	3.90	56	209589	18.6230	ug/L	96
13) 11dichlorthe	4.03	96	274303	3.6484	ug/L	94
14) Trichlorotfluoroeth	4.06	101	568803	7.4732	ug/L	98
15) Acetone	4.13	43	614636	36.7409	ug/L	96
16) Iodomethane	4.22	142	502973	6.6965	ug/L	95
17) Carbon Dislf	4.30	76	1349334	7.6148	ug/L	99
18) allylchloride	4.54	41	1122448	7.1834	ug/L	94
19) methylacetate	4.60	74	26456	3.9522	ug/L	98
20) Methylchlorid	4.70	84	325461	3.6835	ug/L #	85
21) tbutylalcohol	4.90	59	652204	161.8804	ug/L	96
22) Acrylonitrile	5.02	53	341048	17.4728	ug/L	96
23) t12dichlorte	5.07	96	290302	3.6687	ug/L #	87
24) MtBE	5.08	73	625260	3.8220	ug/L	94
25) Hexane	5.43	57	981273	7.5980	ug/L	98
26) 11dichlorota	5.60	63	613666	3.5279	ug/L	100
27) Vinylacetate	5.69	43	5152814	37.4023	ug/L	100
28) chloroprene	5.72	53	1173281	7.5576	ug/L	100
29) Diisopether	5.72	45	1360334	3.7123	ug/L	100
30) ETBE	6.18	59	925319	3.8730	ug/L	99
31) 22dichloropr	6.34	77	379613	3.6299	ug/L	100
32) c12dichlorte	6.34	96	337432	3.4557	ug/L	98
33) 2Butanone	6.36	72	173067	35.8436	ug/L	98
34) propionitrile	6.43	54	240596	35.3376	ug/L	99
35) Ethylacetate	6.46	88	30861	19.2457	ug/L	95
36) methacrylonitrile	6.62	67	135891	7.4226	ug/L	98
37) Bromochlorma	6.63	128	142886	3.4983	ug/L	99
38) Tetrahydofur	6.70	42	654863	34.2860	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1517B\ICV1.D Vial: 14
Acq On : 15 Mar 2017 22:06 Operator: RLD-AGK
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: Mar 16 08:03:31 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:18 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.74	83	560600	3.5462 ug/L		98
40)	111trichlota	6.97	97	468231	3.6976 ug/L		98
42)	Cyclohexane	7.04	56	638832	3.8280 ug/L		99
43)	Carbtetraclo	7.18	119	333574	3.8975 ug/L		98
44)	11dicloprope	7.18	110	162075	3.8262 ug/L		93
46)	Benzene	7.43	78	1253229	3.5777 ug/L		99
47)	12dichlorota	7.44	62	382024	3.5249 ug/L		100
48)	TAME	7.58	73	651902	3.7040 ug/L		97
49)	trichloroete	8.23	95	318473	3.5489 ug/L		97
50)	methylcyclohexane	8.48	83	521375	3.8719 ug/L		97
51)	12dicloropra	8.51	63	369085	3.5713 ug/L		92
52)	23Dicl1propene	8.57	75	461166	3.6434 ug/L		100
53)	Dibromometha	8.65	93	149459	3.5098 ug/L		99
54)	methylmethacrylate	8.67	69	122824	3.7290 ug/L		98
55)	14dioxane	8.69	88	33227	108.8411 ug/L	#	38
56)	Bromodiclrma	8.86	83	377176	3.8172 ug/L		97
57)	2Nitropropane	9.14	43	409516	36.8799 ug/L		100
58)	2CLEVE	9.24	63	404543	19.9251 ug/L		98
59)	c13dicloproe	9.43	75	386406	3.5881 ug/L		99
60)	4Meth2Pentan	9.63	43	2278233	37.4028 ug/L		100
62)	Toluene	9.87	92	780492	3.5872 ug/L		99
63)	t13Dicloprop	10.15	75	268470	3.5845 ug/L		99
64)	ethylmethacrylate	10.28	69	507006	7.6146 ug/L		99
65)	112Triclotha	10.39	83	175328	3.4550 ug/L		99
66)	Tetrachlorte	10.60	166	370999	3.5936 ug/L		99
67)	13Diclorpropa	10.61	76	355927	3.5485 ug/L		99
69)	2Hexanone	10.72	43	1563932	38.3480 ug/L		99
70)	Clorodibrmta	10.92	129	238891	3.7160 ug/L		97
71)	12Dibrometha	11.07	107	195562	3.7210 ug/L		100
72)	Chlorobenzen	11.75	112	867377	3.6240 ug/L		98
73)	1Clhexane	11.71	91	417212	3.7326 ug/L		99
74)	1112Tetclota	11.85	131	283083	3.7714 ug/L		100
75)	Ethylbenzene	11.90	91	1462305	3.7109 ug/L		98
76)	m p-Xylene	12.07	106	1147878	7.4323 ug/L		99
77)	o-Xylene	12.62	106	552791	3.6772 ug/L		97
78)	Styrene	12.63	104	928054	3.8135 ug/L		99
79)	Bromoform	12.88	173	131879	3.7732 ug/L		97
80)	Isopropylben	13.14	105	1422244	3.7710 ug/L		100
81)	cyclohexanone	13.25	55	74030	58.0710 ug/L		98
84)	Bromobenzene	13.56	156	379353	3.6550 ug/L		98
85)	1122Tetrclta	13.55	83	237429	3.7717 ug/L		96
86)	123Triclproa	13.61	75	208124	3.4240 ug/L		99
87)	14dichloro2butene	13.63	53	41146	3.1967 ug/L		89
88)	n-Propylbenz	13.72	91	1723878	3.7603 ug/L		100
89)	2chlorotolue	13.84	91	1001965	3.7037 ug/L		98
90)	4chlorotolue	14.00	91	1144420	3.7199 ug/L		99
91)	135Trimebenz	13.98	105	1234162	3.8591 ug/L		99
92)	tbutylbenzen	14.45	119	1080006	3.8048 ug/L		98
93)	124Trimetben	14.52	105	1244623	3.8429 ug/L		99
94)	sbutylbenzen	14.77	105	1627075	3.9410 ug/L		100
95)	13Diclorbenz	14.92	146	711498	3.6377 ug/L		99
96)	pIsopropylto	14.98	119	1353001	3.8290 ug/L		100
97)	14dichlorobe	15.05	146	708166	3.6472 ug/L		97
98)	12dichlorobe	15.60	146	651837	3.6401 ug/L		99
99)	nButylbenzen	15.58	91	1185288	3.8064 ug/L		99
100)	12dibromo3cl	16.70	157	36228	3.5341 ug/L		96
101)	135Trichlorobenzene	17.00	180	500266	3.7241 ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1517B\ICV1.D Vial: 14
Acq On : 15 Mar 2017 22:06 Operator: RLD-AGK
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: Mar 16 08:03:31 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:18 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	403337	3.7141	ug/L	99
103) Hexachlorobu	18.05	225	242298	3.9110	ug/L	97
104) Naphthalene	18.13	128	657959	3.7850	ug/L	99
105) 123Trichlben	18.44	180	348163	3.7417	ug/L	99

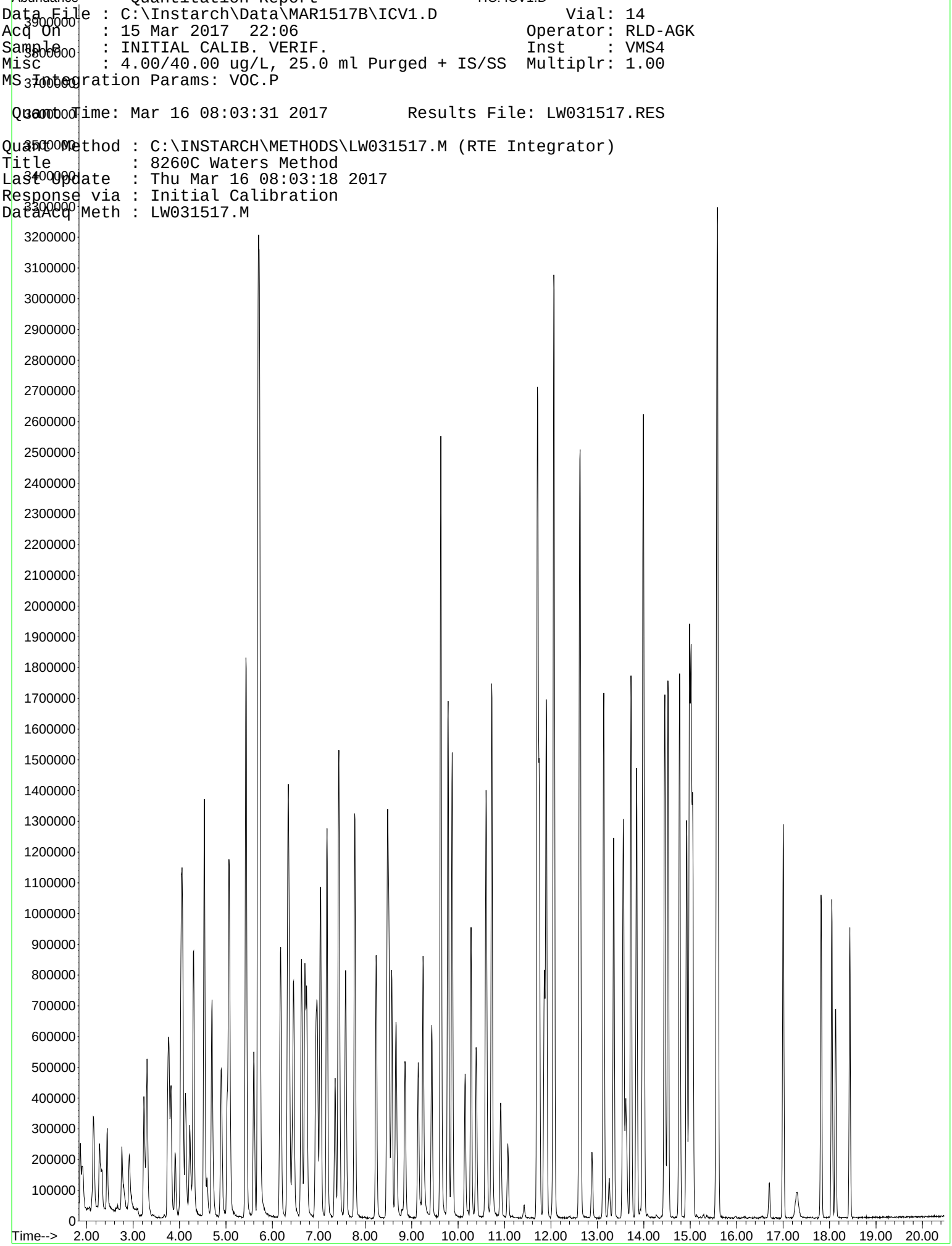
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICV1.D

Data File : C:\Instarch\Data\MAR1517B\ICV1.D Vial: 14
Acq On : 15 Mar 2017 22:06 Operator: RLD-AGK
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: Mar 16 08:03:31 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:18 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\MAR1517B\ICV2.D Vial: 15
Acq On : 15 Mar 2017 22:34 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Mar 16 08:03:59 2017

Quant Method : C:\INSTARCH\METHODS\LW031517.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW031517.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	102	0.00
2	PT	Dichlorodi	8.0000	7.5296	5.88	104	0.00
3	PT	Chloromethan	8.0000	7.1639	10.45	101	0.00
4	PT	VinylChlorid	8.0000	7.3604	7.99	102	0.00
5	PT	Bromomethane	8.0000	8.0166	-0.21	104	0.00
6	PT	Chloroethane	8.0000	7.1476	10.66	102	0.00
7	T	Dichloroflmethane	8.0000	7.4092	7.38	102	0.00
8	PT	Trichlorofma	8.0000	7.5319	5.85	103	0.00
9	T	Ethylether	8.0000	7.8215	2.23	105	0.00
10	T	dichlorotfluoroethan	8.0000	7.4694	6.63	100	0.00
11	T	propyleneoxide	80.0000	70.9917	11.26	100	-0.01
12	T	Acrolein	40.0000	35.3367	11.66	97	-0.01
13	PT	11dichlorthe	8.0000	7.7119	3.60	101	0.01
14	PT	Trichlorotfluoroeth	16.0000	15.2902	4.44	103	0.00
15	PT	Acetone	80.0000	69.2121	13.48	92	-0.03
16	T	Iodomethane	16.0000	16.3454	-2.16	103	0.01
17	PT	Carbon Dislf	16.0000	15.5202	3.00	105	0.01
18	T	allylchloride	16.0000	15.0408	5.99	101	0.00
19	PT	methylacetate	8.0000	7.1317	10.85	92	-0.01
20	PT	Methylchlorid	8.0000	7.6298	4.63	99	0.00
21	T	tbutylalcohol	400.0000	318.9464	20.26#	87	-0.07
22	T	Acrylonitrile	40.0000	34.3974	14.01	97	-0.01
23	PT	t12dichlorte	8.0000	7.5920	5.10	103	0.00
24	PT	MtBE	8.0000	7.7005	3.74	103	-0.01
25	T	Hexane	16.0000	15.5227	2.98	102	0.02
26	PT	11dichlorota	8.0000	7.4242	7.20	101	0.00
27	T	Vinylacetate	80.0000	76.4421	4.45	100	0.00
28	T	chloroprene	16.0000	15.7058	1.84	103	0.00
29	T	Diisopether	8.0000	7.6627	4.22	102	0.00
30	T	ETBE	8.0000	8.0044	-0.06	104	-0.01
31	T	22dichloropr	8.0000	7.7823	2.72	100	0.00
32	PT	c12dichlorte	8.0000	7.3312	8.36	100	0.00
33	PT	2Butanone	80.0000	68.0758	14.91	95	-0.02
34	T	propionitrile	80.0000	69.0887	13.64	97	-0.02
35	T	Ethylacetate	40.0000	37.7234	5.69	94	-0.01
36	T	methacrylonitrile	16.0000	14.5326	9.17	95	-0.02
37	T	Bromochlorma	8.0000	7.1132	11.09	100	0.00
38	T	Tetrahydofur	80.0000	65.7723	17.78	94	-0.02
39	PT	Chloroform	8.0000	7.3701	7.87	101	0.00
40	PT	111trichlota	8.0000	7.9684	0.40	102	0.00
41	S	SURRDibrflma	4.0000	4.0276	-0.69	102	0.00
42	PT	Cyclohexane	8.0000	7.9689	0.39	107	0.00
43	PT	Carbtetraclo	8.0000	9.0080	-12.60	103	0.00
44	T	11dicloprope	8.0000	7.9437	0.70	107	0.00
45	S	SURR12DCAd4	4.0000	3.9143	2.14	104	0.00
46	PT	Benzene	8.0000	7.3736	7.83	100	0.00
47	PT	12dichlorota	8.0000	7.0675	11.66	100	0.00
48	T	TAME	8.0000	7.8180	2.28	102	-0.01

49	PT	trichloroete	8.0000	7.5684	5.40	103	0.00
50	PT	methylcyclohexane	8.0000	8.1297	-1.62	107	0.00
51	PT	12dicloropra	8.0000	7.2972	8.78	99	0.00
52	T	23Dicl1propene	8.0000	7.7086	3.64	101	0.00
53	T	Dibromometha	8.0000	7.1776	10.28	99	0.00
54	T	methylmethacrylate	8.0000	7.7078	3.65	101	0.00
55	T	14dioxane	400.0000	226.3554	43.41#	0	0.00
56	PT	Bromodiclrma	8.0000	8.0463	-0.58	102	0.00
57	T	2Nitropropane	80.0000	79.3492	0.81	95	0.00
58	T	2CLEVE	40.0000	42.0880	-5.22	109	0.00
59	PT	c13dicloproe	8.0000	7.7849	2.69	99	0.00
60	PT	4Meth2Pentan	80.0000	69.7866	12.77	98	0.00
61	S	SURRd8Tolule	4.0000	3.9700	0.75	102	0.00
62	PT	Toluene	8.0000	7.4812	6.48	102	0.00
63	PT	t13Dicloprop	8.0000	7.7898	2.63	98	0.00
64	T	ethylmethacrylate	16.0000	15.7553	1.53	99	0.00
65	PT	112Triclotha	8.0000	7.0150	12.31	97	0.00
66	PT	Tetrachlorte	8.0000	7.6692	4.13	102	0.00
67	T	13Diclorpropa	8.0000	7.1096	11.13	99	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	102	0.00
69	PT	2Hexanone	80.0000	71.6928	10.38	97	0.00
70	PT	Clorodibrmta	8.0000	7.9792	0.26	99	0.00
71	PT	12Dibrometha	8.0000	7.4926	6.34	98	0.00
72	PT	Chlorobenzen	8.0000	7.3411	8.24	101	0.00
73	T	1Clhexane	8.0000	7.6199	4.75	104	0.00
74	T	1112Tetclota	8.0000	7.9896	0.13	100	0.00
75	PT	Ethylbenzene	8.0000	7.6048	4.94	102	0.00
76	PT	m p-Xylene	16.0000	15.2802	4.50	101	0.00
77	PT	o-Xylene	8.0000	7.7787	2.77	101	0.00
78	PT	Styrene	8.0000	7.8675	1.66	101	0.00
79	PT	Bromoform	8.0000	8.1978	-2.47	97	0.00
80	PT	Isopropylben	8.0000	7.7296	3.38	102	0.00
81	T	cyclohexanone	160.0000	114.2394	28.60#	83	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	101	0.00
83	S	SURR4BrFBenz	4.0000	4.0439	-1.10	102	0.00
84	T	Bromobenzene	8.0000	7.4901	6.37	100	0.00
85	PT	1122Tetrclta	8.0000	7.3908	7.62	96	0.00
86	T	123Triclproa	8.0000	6.9193	13.51	98	0.00
87	T	14dichloro2butene	8.0000	6.9309	13.36	92	0.00
88	T	n-Propylbenz	8.0000	7.7311	3.36	101	0.00
89	T	2chlorotolue	8.0000	7.7410	3.24	101	0.00
90	T	4chlorotolue	8.0000	7.7328	3.34	101	0.00
91	T	135Trimebenz	8.0000	7.9249	0.94	101	0.00
92	T	tbutylbenzen	8.0000	7.9870	0.16	101	0.00
93	T	124Trimetben	8.0000	7.9116	1.11	100	0.00
94	T	sbutylbenzen	8.0000	7.8941	1.32	101	0.00
95	PT	13Diclorbenz	8.0000	7.5454	5.68	100	0.00
96	T	pIsopropylto	8.0000	7.9419	0.73	101	0.00
97	PT	14dichlorobe	8.0000	7.5630	5.46	100	0.00
98	PT	12dichlorobe	8.0000	7.3561	8.05	98	0.00
99	T	nButylbenzen	8.0000	7.8718	1.60	101	0.00
100	PT	12dibromo3cl	8.0000	7.6483	4.40	97	0.00
101	T	135Trichlorobenzene	8.0000	8.0791	-0.99	101	0.00
102	PT	124Trichlobe	8.0000	8.0545	-0.68	100	0.00
103	T	Hexachlorobu	8.0000	8.0601	-0.75	103	0.00
104	T	Naphthalene	8.0000	7.7024	3.72	99	0.00
105	T	123Trichlben	8.0000	7.8905	1.37	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW031517.M Fri Mar 17 10:28:07 2017

Quantitation Report

Data File : C:\Instarch\Data\MAR1517B\ICV2.D Vial: 15
Acq On : 15 Mar 2017 22:34 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 16 08:03:59 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:49 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.77	96	1404308	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1113109	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	623013	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	355806	4.028	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101	%		
45) SURR12DCAd4	7.35	102	71735	3.914	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 98	%		
61) SURRd8Tolule	9.79	98	1381094	3.970	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 99	%		
83) SURR4BrFBenz	13.35	95	512027	4.044	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 101	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	839426	7.5296	ug/L	99
3) Chloromethan	2.15	50	1098245	7.1639	ug/L	99
4) VinylChlorid	2.28	62	909474	7.3604	ug/L	99
5) Bromomethane	2.76	94	444949	8.0166	ug/L	98
6) Chloroethane	2.92	64	471628	7.1476	ug/L	97
7) Dichloroflmethane	3.23	67	1167689	7.4092	ug/L	99
8) Trichlorofma	3.30	101	1010309	7.5319	ug/L	96
9) Ethylether	3.75	59	506838	7.8215	ug/L	89
10) dichlorotfluoroethan	3.78	67	708921	7.4694	ug/L	95
11) propyleneoxide	3.81	58	653561	70.9917	ug/L	91
12) Acrolein	3.90	56	413293	35.3367	ug/L	96
13) 11dichlorthe	4.04	96	602566	7.7119	ug/L	91
14) Trichlorotfluoroeth	4.06	101	1209437	15.2902	ug/L	97
15) Acetone	4.12	43	1133206	69.2121	ug/L	95
16) Iodomethane	4.23	142	1393127	16.3454	ug/L	95
17) Carbon Dislf	4.31	76	2858080	15.5202	ug/L	100
18) allylchloride	4.54	41	2442420	15.0408	ug/L	94
19) methylacetate	4.59	74	49613	7.1317	ug/L	97
20) Methylchlorid	4.70	84	665447	7.6298	ug/L #	83
21) tbutylalcohol	4.90	59	1335429	318.9464	ug/L	99
22) Acrylonitrile	5.02	53	697737	34.3974	ug/L	100
23) t12dichlorte	5.06	96	624326	7.5920	ug/L #	86
24) MtBE	5.08	73	1309190	7.7005	ug/L	94
25) Hexane	5.44	57	2083392	15.5227	ug/L	96
26) 11dichlorota	5.60	63	1342068	7.4242	ug/L	100
27) Vinylacetate	5.69	43	9962888	76.4421	ug/L	97
28) chloroprene	5.72	53	2533917	15.7058	ug/L	99
29) Diisopether	5.72	45	2918062	7.6627	ug/L	98
30) ETBE	6.18	59	1987426	8.0044	ug/L	99
31) 22dichloropr	6.34	77	845803	7.7823	ug/L	99
32) c12dichlorte	6.34	96	743934	7.3312	ug/L	97
33) 2Butanone	6.36	72	341593	68.0758	ug/L	94
34) propionitrile	6.43	54	488846	69.0887	ug/L	98
35) Ethylacetate	6.46	88	62864	37.7234	ug/L #	95
36) methacrylonitrile	6.62	67	276496	14.5326	ug/L	98
37) Bromochlorma	6.64	128	301935	7.1132	ug/L	97
38) Tetrahydofur	6.70	42	1305542	65.7723	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1517B\ICV2.D Vial: 15
Acq On : 15 Mar 2017 22:34 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 16 08:03:59 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:49 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.74	83	1210821	7.3701 ug/L	100
40) 111trichlota	6.97	97	1048638	7.9684 ug/L	99
42) Cyclohexane	7.04	56	1382056	7.9689 ug/L	99
43) Carbtetraclo	7.18	119	801217	9.0080 ug/L	99
44) 11dicloprope	7.18	110	349696	7.9437 ug/L	97
46) Benzene	7.43	78	2684220	7.3736 ug/L	99
47) 12dichlorota	7.44	62	796011	7.0675 ug/L	99
48) TAME	7.58	73	1429965	7.8180 ug/L	95
49) trichloroete	8.23	95	705817	7.5684 ug/L	97
50) methylcyclohexane	8.48	83	1137647	8.1297 ug/L	97
51) 12dicloropra	8.51	63	783741	7.2972 ug/L	91
52) 23Dicl1propene	8.58	75	1014020	7.7086 ug/L	99
53) Dibromometha	8.66	93	317639	7.1776 ug/L	99
54) methylmethacrylate	8.67	69	263836	7.7078 ug/L	99
55) 14dioxane	8.70	88	71813	226.3554 ug/L #	34
56) Bromodiclrma	8.86	83	826244	8.0463 ug/L	98
57) 2Nitropropane	9.14	43	915668	79.3492 ug/L	99
58) 2CLEVE	9.24	63	888049	42.0880 ug/L	99
59) c13dicloproe	9.43	75	871258	7.7849 ug/L	98
60) 4Meth2Pentan	9.63	43	4417532	69.7866 ug/L	98
62) Toluene	9.87	92	1691583	7.4812 ug/L	98
63) t13Dicloprop	10.15	75	606323	7.7898 ug/L	99
64) ethylmethacrylate	10.28	69	1090202	15.7553 ug/L	98
65) 112Triclotha	10.39	83	369957	7.0150 ug/L	99
66) Tetrachlorte	10.60	166	822828	7.6692 ug/L	98
67) 13Diclorpropa	10.61	76	741089	7.1096 ug/L	99
69) 2Hexanone	10.72	43	3092315	71.6928 ug/L	97
70) Clorodibrmta	10.92	129	542518	7.9792 ug/L	98
71) 12Dibrometha	11.07	107	416478	7.4926 ug/L	96
72) Chlorobenzen	11.75	112	1858262	7.3411 ug/L	98
73) 1Clhexane	11.71	91	900791	7.6199 ug/L	99
74) 1112Tetclota	11.85	131	634270	7.9896 ug/L	99
75) Ethylbenzene	11.90	91	3169406	7.6048 ug/L	99
76) m p-Xylene	12.06	106	2495954	15.2802 ug/L	96
77) o-Xylene	12.62	106	1236758	7.7787 ug/L	100
78) Styrene	12.63	104	2024981	7.8675 ug/L	99
79) Bromoform	12.88	173	303035	8.1978 ug/L	99
80) Isopropylben	13.14	105	3083244	7.7296 ug/L	100
81) cyclohexanone	13.25	55	154027	114.2394 ug/L	100
84) Bromobenzene	13.56	156	814983	7.4901 ug/L	98
85) 1122Tetrclta	13.55	83	487755	7.3908 ug/L	98
86) 123Triclproa	13.61	75	440912	6.9193 ug/L	98
87) 14dichloro2butene	13.64	53	93523	6.9309 ug/L	87
88) n-Propylbenz	13.72	91	3715589	7.7311 ug/L	98
89) 2chlorotolue	13.84	91	2195431	7.7410 ug/L	97
90) 4chlorotolue	14.00	91	2494018	7.7328 ug/L	100
91) 135Trimebenz	13.98	105	2656929	7.9249 ug/L	98
92) tbutylbenzen	14.45	119	2376759	7.9870 ug/L	99
93) 124Trimetben	14.52	105	2686272	7.9116 ug/L	100
94) sbutylbenzen	14.77	105	3416781	7.8941 ug/L	99
95) 13Diclorbenz	14.93	146	1547147	7.5454 ug/L	98
96) pIsopropylto	14.99	119	2941993	7.9419 ug/L	98
97) 14dichlorobe	15.05	146	1539495	7.5630 ug/L	99
98) 12dichlorobe	15.60	146	1380937	7.3561 ug/L	98
99) nButylbenzen	15.58	91	2569784	7.8718 ug/L	97
100) 12dibromo3cl	16.70	157	82193	7.6483 ug/L	99
101) 135Trichlorobenzene	17.00	180	1137749	8.0791 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1517B\ICV2.D Vial: 15
Acq On : 15 Mar 2017 22:34 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 16 08:03:59 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:49 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	916979	8.0545 ug/L	97
103) Hexachlorobu	18.05	225	523489	8.0601 ug/L	99
104) Naphthalene	18.13	128	1403697	7.7024 ug/L	99
105) 123Trichlben	18.44	180	769713	7.8905 ug/L	99

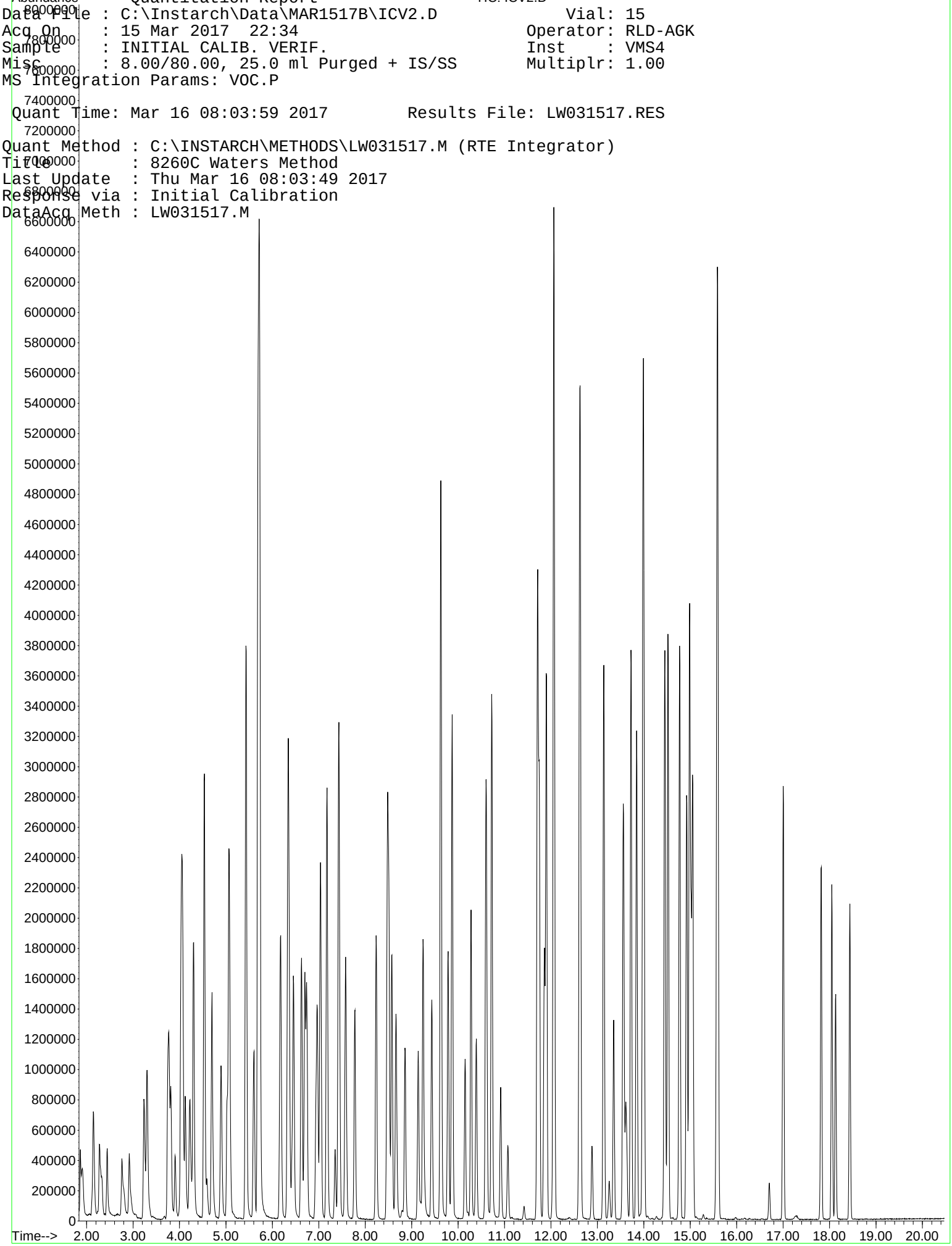
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: ICV2.D)

Data File : C:\Instarch\Data\MAR1517B\ICV2.D Vial: 15
Acq On : 15 Mar 2017 22:34 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 16 08:03:59 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:49 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Quantitation Report

Data File : C:\Instarch\Data\MAR1517B\ICB1.D Vial: 18
Acq On : 15 Mar 2017 23:59 Operator: RLD-AGK
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: Mar 16 08:04:10 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:49 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1215409	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	990309	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	543930	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	308704	4.037	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101	%		
45) SURR12DCAd4	7.35	102	65965	4.159	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 104	%		
61) SURRd8Tolule	9.79	98	1197141	3.976	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 99	%		
83) SURR4BrFBenz	13.35	95	441153	3.991	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.16	50	7401	0.0558	ug/L #	60
4) VinylChlorid	2.34	62	522	N.D.		
5) Bromomethane	2.80	94	617	N.D.		
6) Chloroethane	2.95	64	686	N.D.		
7) Dichloroflmethane	3.23	67	671	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	4.15	43	23491	Below	Cal	93
16) Iodomethane	4.21	142	1048	0.3520	ug/L #	40
17) Carbon Dislf	4.30	76	4079	N.D.		
18) allylchloride	4.54	41	1146	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	7692	Below	Cal #	85
21) tbutylalcohol	4.95	59	1557	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	5.72	43	803	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	6.72	42	3182	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1517B\ICB1.D Vial: 18
Acq On : 15 Mar 2017 23:59 Operator: RLD-AGK
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: Mar 16 08:04:10 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:49 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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	7.44	78	2275	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	9.28	43	654	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.63	43	1296	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.74	43	1543	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	11.73	112	994	N.D.	
73)	1Clhexane	11.71	91	2740	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	12.06	106	930	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	13.14	105	749	N.D.	
81)	cyclohexanone	13.25	55	551	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	14.00	91	692	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	14.52	105	566	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	14.91	146	927	N.D.	
96)	pIsopropylto	14.98	119	910	N.D.	
97)	14dichlorobe	15.05	146	610	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.58	91	2883	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	17.00	180	892	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1517B\ICB1.D Vial: 18
Acq On : 15 Mar 2017 23:59 Operator: RLD-AGK
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: Mar 16 08:04:10 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:49 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	998	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.13	128	3067	N.D.	
105) 123Trichlben	18.44	180	1307	N.D.	

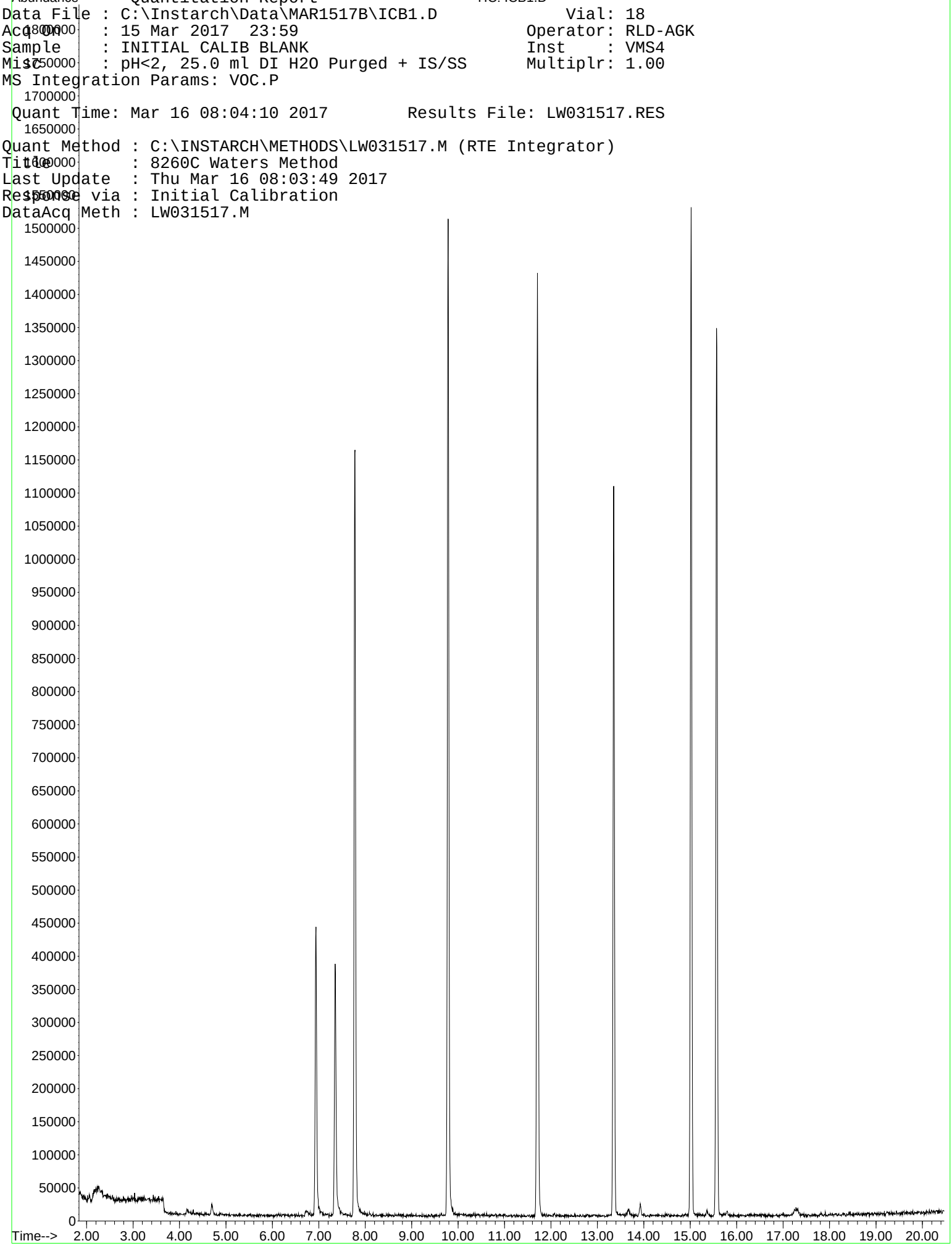
(#) = qualifier out of range (m) = manual integration

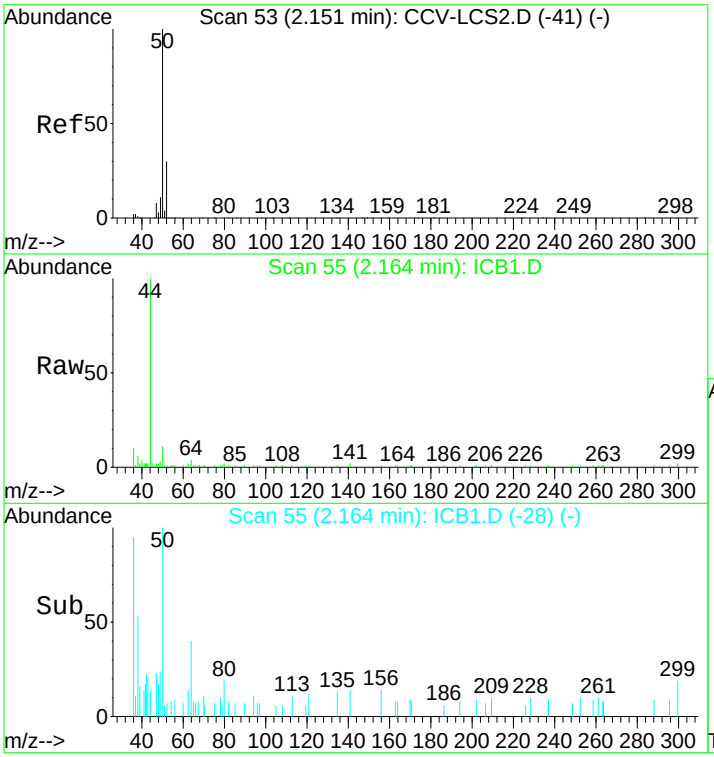
Abundance Quantitation Report TIC: ICB1.D

Data File : C:\Instarch\Data\MAR1517B\ICB1.D Vial: 18
Acq On : 15 Mar 2017 23:59 Operator: RLD-AGK
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: Mar 16 08:04:10 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 08:03:49 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

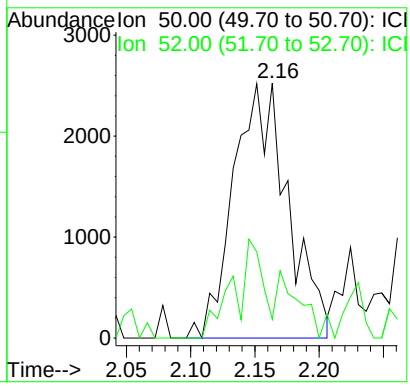


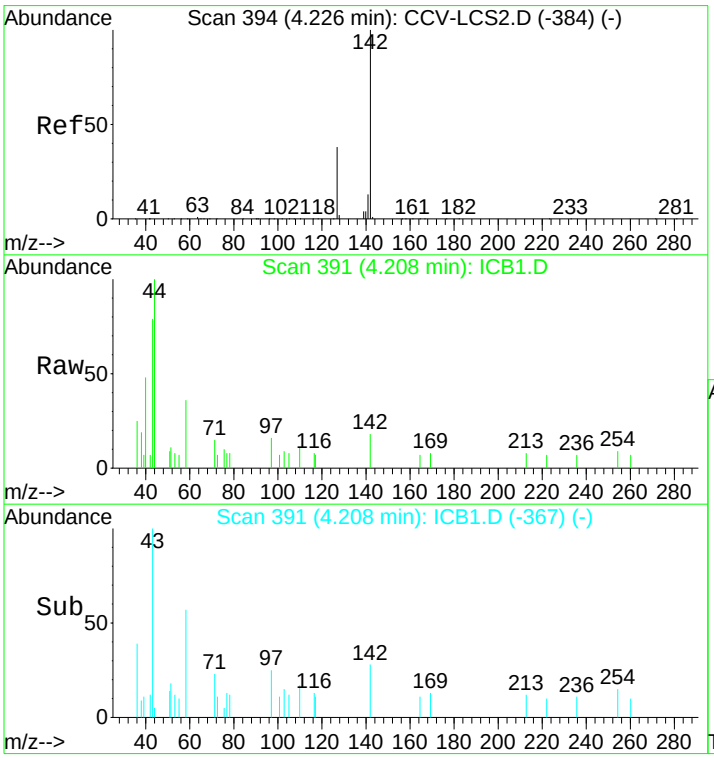


#3
Chloromethan
Concen: 0.06 ug/L
RT: 2.16 min Scan# 55
Delta R.T. 0.01 min
Lab File: ICB1.D
Acq: 15 Mar 2017 23:59

Tgt Ion: 50 Resp: 7401

Ion	Ratio	Lower	Upper
50	100		
52	10.6	13.4	53.4#

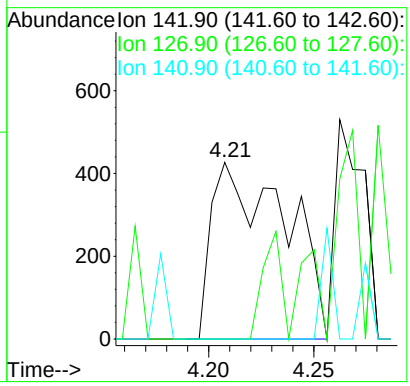




#16
Iodomethane
Concen: 0.35 ug/L
RT: 4.21 min Scan# 391
Delta R.T. -0.01 min
Lab File: ICB1.D
Acq: 15 Mar 2017 23:59

Tgt Ion:142 Resp: 1048

Ion	Ratio	Lower	Upper
142	100		
127	0.0	24.7	64.7#
141	0.0	0.0	33.9



VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

BFB

Data File : C:\Instarch\Data\MAR1417\BFB1.D Vial: 1
Acq On : 14 Mar 2017 10:09 Operator: RLD-AGK
Sample : 135664,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS031317.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.755 to 4.777 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	24797	PASS
75	95	30	60	45.9	45897	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.7	7662	PASS
173	174	0.00	2	0.3	225	PASS
174	95	50	100	83.2	83239	PASS
175	174	5	9	8.5	7083	PASS
176	174	95	101	96.5	80285	PASS
177	176	5	9	5.7	4593	PASS

LS031317.M Mon Mar 20 08:25:31 2017

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\MAR1417\CCV1.D Vial: 3
Acq On : 14 Mar 2017 10:52 Operator: RLD-AGK
Sample : 135664,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Mar 14 11:18:33 2017

Quant Method : C:\INSTARCH\METHODS\LS031317.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS031317.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	0.2249	0.2571	-14.32	116	0.00
3	PT	Chloromethan	0.3158	0.3487	-10.42	112	-0.01
4	CT	VinylChlorid	0.2636	0.3050	-15.71	121	0.00
5	T	Bromomethane	0.1341	0.1575	-17.45	129	0.00
6	T	Chloroethane	0.1394	0.1642	-17.79	120	0.00
7	T	dichloroflmethane	0.3530	0.4069	-15.27	122	0.00
8	T	Trichlorofma	0.2751	0.3177	-15.49	119	0.00
9	T	Ethylether	0.1885	0.2102	-11.51	121	0.00
10	T	dichlorotfluoroethan	0.2111	0.2391	-13.26	116	0.00
11	T	propyleneoxide	0.0333	0.0367	-10.21	125	0.00
12	T	Acrolein	0.0498	0.0487	2.21	108	0.00
13	CT	11dichlorthe	0.1716	0.2028	-18.18	124	0.00
14	T	Trichlorotfluoroeth	0.1744	0.2032	-16.51	121	0.00
15	T	Acetone	0.0914	0.0971	-6.24	106	0.00
16	T	Iodomethane	0.1508	0.1695	-12.40	136	0.00
17	T	Carbon Dislf	0.5293	0.6151	-16.21	124	0.00
18	T	allylchloride	0.3939	0.4282	-8.71	119	0.00
19	T	methylacetate	0.0431	0.0438	-1.62	121	-0.01
20	T	Methylchlorid	0.4112	0.2808	31.71#	87	0.00
21	T	Acrylonitrile	0.0899	0.0912	-1.45	107	0.00
22	T	t12dichlorte	0.1855	0.2093	-12.83	119	0.00
23	T	tbutylalcohol	0.0205	0.0209	-1.95	114	0.00
24	T	MtBE	0.5017	0.5329	-6.22	114	0.00
25	T	Hexane	0.3094	0.3254	-5.17	110	0.00
26	PT	11dichlorota	0.3989	0.4420	-10.80	120	0.00
27	T	Vinylacetate	0.3734	0.4432	-18.69	110	0.00
28	T	chloroprene	0.3637	0.4219	-16.00	119	0.00
29	T	Diisopether	0.9145	0.9749	-6.60	111	0.00
30	T	ETBE	0.5585	0.6140	-9.94	117	0.00
31	T	22dichloropr	0.2379	0.2685	-12.86	122	0.00
32	T	c12dichlorte	0.2377	0.2566	-7.95	115	0.00
33	T	2Butanone	0.0218	0.0218	0.00	109	0.00
34	T	propionitrile	0.0356	0.0363	-1.97	111	0.00
35	T	Ethylacetate	0.0076	0.0078#	-2.63	112	0.00
36	T	methacrylonitrile	0.0804	0.0803	0.12	105	0.00
37	T	Bromochlorma	0.1124	0.1190	-5.87	114	0.00
38	T	Tetrahydofur	0.0849	0.0834	1.77	105	0.00
39	CT	Chloroform	0.3625	0.3979	-9.77	116	0.00
40	T	111trichlota	0.2828	0.3240	-14.57	122	-0.01
41	S	SURRDibrflma	0.2529	0.2532	-0.12	107	0.00
42	T	Cyclohexane	0.3847	0.4634	-20.46#	128	0.00
43	T	Carbtetraclo	0.1988	0.2304	-15.90	122	0.00
44	T	11dicloprope	0.0982	0.1107	-12.73	118	0.00
45	S	SURR12DCAd4	0.0567	0.0594	-4.76	105	0.00
46	T	Benzene	0.8025	0.8794	-9.58	115	0.00
47	T	12dichlorota	0.3136	0.3302	-5.29	112	0.00
48	T	TAME	0.3980	0.4445	-11.68	118	0.00

49	T	trichloroete	0.2128	0.2337	-9.82	120	0.00
50	T	methylcyclohexane	0.2910	0.3471	-19.28	124	0.00
51	CT	12dicloropra	0.2449	0.2762	-12.78	124	0.00
52	T	23dicl1propene	0.3049	0.3475	-13.97	120	0.00
53	T	Dibromometha	0.1387	0.1379	0.58	109	0.00
54	T	methylmethacrylate	0.1275	0.1261	1.10	104	-0.01
55	T	14dioxane	0.0023	0.0024#	-4.35	117	0.00
56	T	Bromodiclrma	0.2609	0.2785	-6.75	113	0.00
57	T	2Nitropropane	0.0397	0.0320	19.40	109	0.00
58	T	c13dicloproe	0.2569	0.2669	-3.89	113	0.00
59	T	4Meth2Pentan	0.2520	0.2693	-6.87	108	0.00
60	S	SURRd8Tolule	0.9885	0.9916	-0.31	105	0.00
61	CT	Toluene	0.5107	0.5482	-7.34	116	0.00
62	T	t13Dicloprop	0.2046	0.2051	-0.24	112	0.00
63	T	ethylmethacrylate	0.2289	0.2454	-7.21	112	0.00
64	T	112Triclotha	0.1561	0.1615	-3.46	113	0.00
65	T	Tetrachlorte	0.2271	0.2616	-15.19	119	0.00
66	T	13Diclorpropa	0.3076	0.3204	-4.16	109	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	104	0.00
68	T	2Hexanone	0.2294	0.2448	-6.71	109	0.00
69	T	Clorodibrmta	0.2548	0.2646	-3.85	114	0.00
70	T	12Dibrometha	0.2357	0.2460	-4.37	110	0.00
71	PT	Chlorobenzen	0.7390	0.8153	-10.32	117	0.00
72	T	1Clhexane	0.3243	0.3816	-17.67	126	0.00
73	T	1112Tetclota	0.2383	0.2579	-8.22	118	0.00
74	CT	Ethylbenzene	1.1804	1.3397	-13.50	118	0.00
75	T	m p-Xylene	0.4594	0.5233	-13.91	119	0.00
76	T	o-Xylene	0.4528	0.5051	-11.55	122	0.00
77	T	Styrene	0.7676	0.8625	-12.36	117	0.00
78	PT	Bromoform	0.1699	0.1705	-0.35	110	0.00
79	T	Isopropylben	1.1288	1.3125	-16.27	122	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	105	0.00
81	T	cyclohexanone	0.0157	0.0153	2.55	115	0.00
82	S	SURR4BrFBenz	0.8316	0.8307	0.11	107	0.00
83	T	Bromobenzene	0.6363	0.7019	-10.31	118	0.00
84	PT	1122Tetrclta	0.5626	0.5920	-5.23	114	0.00
85	T	123Triclproa	0.5553	0.5628	-1.35	116	0.00
86	T	14dichloro2butene	0.1041	0.1057	-1.54	103	-0.01
87	T	n-Propylbenz	2.5154	2.8522	-13.39	121	0.00
88	T	2chlorotolue	1.5063	1.6940	-12.46	120	0.00
89	T	4chlorotolue	1.7437	1.9520	-11.95	120	0.00
90	T	135Trimebenz	1.7691	2.0321	-14.87	120	0.00
91	T	tbutylbenzen	1.5446	1.7696	-14.57	122	0.00
92	T	124Trimetben	1.8332	2.1076	-14.97	123	0.00
93	T	sbutylbenzen	2.2893	2.6946	-17.70	124	0.00
94	T	13Diclorbenz	1.1557	1.2671	-9.64	120	0.00
95	T	pIsopropylto	1.9625	2.2624	-15.28	121	0.00
96	T	14dichlorobe	1.1828	1.2908	-9.13	117	0.00
97	T	12dichlorobe	1.1474	1.2319	-7.36	115	0.00
98	T	nButylbenzen	1.8015	2.0426	-13.38	124	0.00
99	T	12dibromo3cl	0.1034	0.1053	-1.84	105	0.00
100	T	135Trichlorobenzene	0.8384	0.9469	-12.94	121	0.00
101	T	124Trichlobe	0.7683	0.8572	-11.57	120	0.00
102	T	Hexachlorobu	0.4448	0.5178	-16.41	125	0.00
103	T	Naphthalene	1.6993	1.7608	-3.62	108	0.00
104	T	123Trichlben	0.7481	0.8181	-9.36	116	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS031317.M Mon Mar 20 08:44:52 2017

Quantitation Report

Data File : C:\Instarch\Data\MAR1417\CCV1.D Vial: 3
Acq On : 14 Mar 2017 10:52 Operator: RLD-AGK
Sample : 135664,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: Mar 14 11:18:33 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:18:29 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	1184707	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	922229	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	508869	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	300005	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	70373	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.79	98	1174773	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	422708	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	152291	0.0114	mg/kg	98
3) Chloromethan	2.12	50	206533	0.0110	mg/kg	100
4) VinylChlorid	2.27	62	180697	0.0116	mg/kg	99
5) Bromomethane	2.75	94	93292	0.0117	mg/kg	100
6) Chloroethane	2.91	64	97250	0.0118	mg/kg	96
7) dichloroflmethane	3.23	67	241014	0.0115	mg/kg	99
8) Trichlorofma	3.29	101	188203	0.0115	mg/kg	99
9) Ethylether	3.75	59	124530	0.0112	mg/kg	91
10) dichlorotfluoroethan	3.77	67	141658	0.0113	mg/kg	99
11) propyleneoxide	3.81	58	217398	0.1103	mg/kg	96
12) Acrolein	3.90	56	144374	0.0490	mg/kg	94
13) 11dichlorthe	4.03	96	120130	0.0118	mg/kg	96
14) Trichlorotfluoroeth	4.06	101	240741	0.0233	mg/kg	98
15) Acetone	4.12	43	574971	0.1062	mg/kg	99
16) Iodomethane	4.21	142	200816	0.0222	mg/kg	98
17) Carbon Dislf	4.30	76	728661	0.0232	mg/kg	100
18) allylchloride	4.53	41	507306	0.0217	mg/kg	99
19) methylacetate	4.58	74	25939	0.0102	mg/kg	100
20) Methylchlorid	4.70	84	166307	0.0085	mg/kg	98
21) Acrylonitrile	5.02	53	270070	0.0507	mg/kg	99
22) t12dichlorte	5.06	96	123988	0.0113	mg/kg	99
23) tbutylalcohol	4.90	59	617844	0.5080	mg/kg	99
24) MtBE	5.08	73	315652	0.0106	mg/kg	99
25) Hexane	5.43	57	385451	0.0210	mg/kg	98
26) 11dichlorota	5.60	63	261815	0.0111	mg/kg	99
27) Vinylacetate	5.69	43	2625171	0.0984	mg/kg	99
28) chloroprene	5.72	53	499859	0.0232	mg/kg	99
29) Diisopether	5.72	45	577500	0.0107	mg/kg	99
30) ETBE	6.17	59	363691	0.0110	mg/kg	99
31) 22dichloropr	6.34	77	159035	0.0113	mg/kg	98
32) c12dichlorte	6.34	96	151981	0.0108	mg/kg	99
33) 2Butanone	6.36	72	129429	0.1002	mg/kg	97
34) propionitrile	6.42	54	215276	0.1021	mg/kg	97
35) Ethylacetate	6.46	88	23113	0.0515	mg/kg	97
36) methacrylonitrile	6.62	67	95100	0.0200	mg/kg	98
37) Bromochlorma	6.63	128	70477	0.0106	mg/kg	97
38) Tetrahydofur	6.70	42	493899	0.0982	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1417\CCV1.D Vial: 3
Acq On : 14 Mar 2017 10:52 Operator: RLD-AGK
Sample : 135664,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: Mar 14 11:18:33 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:18:29 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	235711	0.0110 mg/kg	100
40)	111trichlota	6.96	97	191918	0.0115 mg/kg	96
42)	Cyclohexane	7.04	56	274491	0.0120 mg/kg	97
43)	Carbtetraclo	7.18	119	136501	0.0116 mg/kg	96
44)	11dicloprope	7.18	110	65560	0.0113 mg/kg	97
46)	Benzene	7.43	78	520897	0.0110 mg/kg	98
47)	12dichlorota	7.44	62	195586	0.0105 mg/kg	100
48)	TAME	7.58	73	263330	0.0112 mg/kg	99
49)	trichloroete	8.23	95	138440	0.0110 mg/kg	98
50)	methylcyclohexane	8.48	83	205608	0.0119 mg/kg	98
51)	12dicloropra	8.51	63	163634	0.0113 mg/kg	97
52)	23dicl1propene	8.58	75	205857	0.0114 mg/kg	98
53)	Dibromometha	8.65	93	81703	0.0099 mg/kg	96
54)	methylmethacrylate	8.66	69	74676	0.0099 mg/kg	96
55)	14dioxane	8.69	88	70014	0.5197 mg/kg	94
56)	Bromodiclrma	8.86	83	164947	0.0107 mg/kg	99
57)	2Nitropropane	9.14	43	189709	0.0862 mg/kg	97
58)	c13dicloproe	9.43	75	158123	0.0104 mg/kg	94
59)	4Meth2Pentan	9.63	43	1595009	0.1069 mg/kg	99
61)	Toluene	9.87	92	324704	0.0107 mg/kg	98
62)	t13Dicloprop	10.15	75	121464	0.0100 mg/kg	97
63)	ethylmethacrylate	10.28	69	290738	0.0214 mg/kg	98
64)	112Triclotha	10.39	83	95678	0.0103 mg/kg	97
65)	Tetrachlorte	10.60	166	154975	0.0115 mg/kg	100
66)	13Diclorpropa	10.61	76	189763	0.0104 mg/kg	99
68)	2Hexanone	10.72	43	1128865	0.1067 mg/kg	99
69)	Clorodibrmta	10.92	129	121995	0.0104 mg/kg	97
70)	12Dibrometha	11.07	107	113447	0.0104 mg/kg	96
71)	Chlorobenzen	11.75	112	375955	0.0110 mg/kg	99
72)	1Clhexane	11.71	91	175970	0.0118 mg/kg	94
73)	1112Tetclota	11.85	131	118924	0.0108 mg/kg	100
74)	Ethylbenzene	11.90	91	617751	0.0113 mg/kg	99
75)	m p-Xylene	12.07	106	482558	0.0228 mg/kg	100
76)	o-Xylene	12.62	106	232890	0.0112 mg/kg	99
77)	Styrene	12.63	104	397691	0.0112 mg/kg	99
78)	Bromoform	12.88	173	78605	0.0100 mg/kg	96
79)	Isopropylben	13.14	105	605221	0.0116 mg/kg	99
81)	cyclohexanone	13.25	55	77619	0.1943 mg/kg	97
83)	Bromobenzene	13.56	156	178593	0.0110 mg/kg	98
84)	1122Tetrclta	13.55	83	150637	0.0105 mg/kg	99
85)	123Triclproa	13.61	75	143191	0.0101 mg/kg	96
86)	14dichloro2butene	13.63	53	26905	0.0100 mg/kg	89
87)	n-Propylbenz	13.72	91	725694	0.0113 mg/kg	98
88)	2chlorotolue	13.84	91	431000	0.0112 mg/kg	98
89)	4chlorotolue	14.00	91	496651	0.0112 mg/kg	100
90)	135Trimebenz	13.98	105	517043	0.0115 mg/kg	99
91)	tbutylbenzen	14.45	119	450247	0.0115 mg/kg	99
92)	124Trimetben	14.52	105	536255	0.0115 mg/kg	98
93)	sbutylbenzen	14.77	105	685597	0.0118 mg/kg	99
94)	13Diclorbenz	14.92	146	322403	0.0110 mg/kg	98
95)	pIsopropylto	14.98	119	575633	0.0115 mg/kg	98
96)	14dichlorobe	15.05	146	328416	0.0109 mg/kg	99
97)	12dichlorobe	15.60	146	313447	0.0107 mg/kg	99
98)	nButylbenzen	15.58	91	519717	0.0113 mg/kg	99
99)	12dibromo3cl	16.70	157	26797	0.0102 mg/kg	88
100)	135Trichlorobenzene	17.01	180	240917	0.0113 mg/kg	99
101)	124Trichlobe	17.82	180	218098	0.0112 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1417\CCV1.D Vial: 3
Acq On : 14 Mar 2017 10:52 Operator: RLD-AGK
Sample : 135664,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: Mar 14 11:18:33 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:18:29 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	131739	0.0116	mg/kg	99
103) Naphthalene	18.13	128	448014	0.0104	mg/kg	99
104) 123Trichlben	18.44	180	208164	0.0109	mg/kg	98

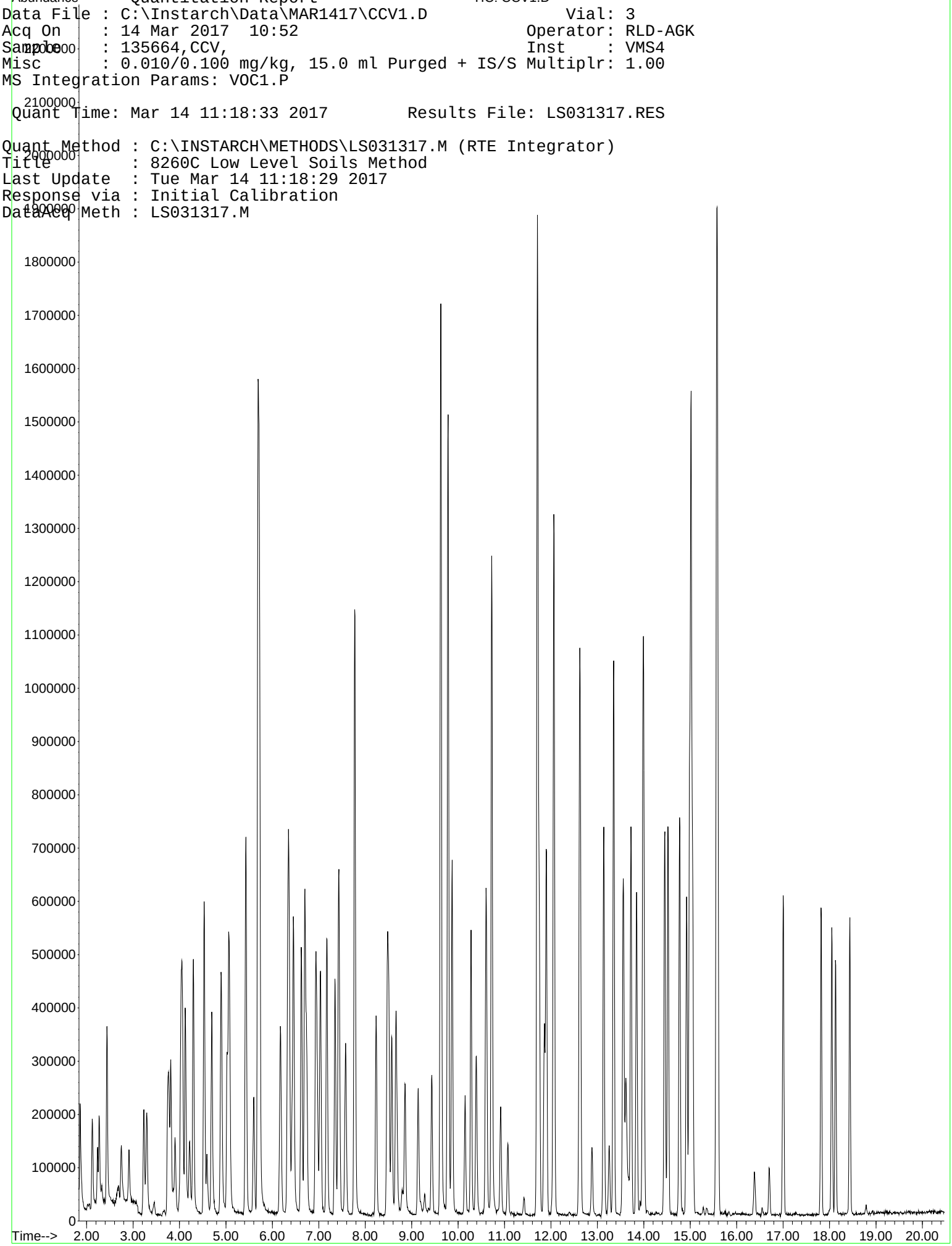
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCV1.D

Data File : C:\Instarch\Data\MAR1417\CCV1.D Vial: 3
Acq On : 14 Mar 2017 10:52 Operator: RLD-AGK
Sample : 135664,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: Mar 14 11:18:33 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:18:29 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\MAR1417\CCVF1.D Vial: 26
Acq On : 14 Mar 2017 21:51 Operator: RLD-AGK
Sample : 135664,CCVF, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Mar 14 22:11:35 2017

Quant Method : C:\INSTARCH\METHODS\LS031317.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS031317.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	97	0.00
2	T	Dichlorodi	0.2249	0.2759	-22.68	114	0.00
3	PT	Chloromethan	0.3158	0.3441	-8.96	102	0.00
4	CT	VinylChlorid	0.2636	0.2983	-13.16	108	0.00
5	T	Bromomethane	0.1341	0.1433	-6.86	108	0.00
6	T	Chloroethane	0.1394	0.1545	-10.83	104	0.00
7	T	dichloroflmethane	0.3530	0.3997	-13.23	110	0.00
8	T	Trichlorofma	0.2751	0.3080	-11.96	106	0.00
9	T	Ethylether	0.1885	0.2057	-9.12	109	0.00
10	T	dichlorotfluoroethan	0.2111	0.2243	-6.25	100	0.00
11	T	propyleneoxide	0.0333	0.0373	-12.01	116	0.00
12	T	Acrolein	0.0498	0.0472	5.22	96	0.00
13	CT	11dichlorthe	0.1716	0.1876	-9.32	105	0.00
14	T	Trichlorotfluoroeth	0.1744	0.1929	-10.61	106	0.00
15	T	Acetone	0.0914	0.0998	-9.19	100	0.00
16	T	Iodomethane	0.1508	0.1568	-3.98	115	0.00
17	T	Carbon Dislf	0.5293	0.5876	-11.01	108	0.00
18	T	allylchloride	0.3939	0.4117	-4.52	105	0.00
19	T	methylacetate	0.0431	0.0414	3.94	105	0.00
20	T	Methylchlorid	0.4112	0.2728	33.66	77	0.00
21	T	Acrylonitrile	0.0899	0.0924	-2.78	99	0.00
22	T	t12dichlorte	0.1855	0.2025	-9.16	106	0.00
23	T	tbutylalcohol	0.0205	0.0217	-5.85	108	0.00
24	T	MtBE	0.5017	0.5247	-4.58	102	0.00
25	T	Hexane	0.3094	0.3044	1.62	94	0.00
26	PT	11dichlorota	0.3989	0.4235	-6.17	105	0.00
27	T	Vinylacetate	0.3734	0.4411	-18.13	100	0.00
28	T	chloroprene	0.3637	0.4066	-11.80	105	0.00
29	T	Diisopether	0.9145	0.9975	-9.08	104	0.00
30	T	ETBE	0.5585	0.6374	-14.13	111	0.00
31	T	22dichloropr	0.2379	0.2517	-5.80	104	0.00
32	T	c12dichlorte	0.2377	0.2480	-4.33	102	0.00
33	T	2Butanone	0.0218	0.0218	0.00	100	0.00
34	T	propionitrile	0.0356	0.0363	-1.97	102	0.00
35	T	Ethylacetate	0.0076	0.0068#	10.53	89	0.00
36	T	methacrylonitrile	0.0804	0.0815	-1.37	98	0.00
37	T	Bromochlorma	0.1124	0.1148	-2.14	101	0.00
38	T	Tetrahydofur	0.0849	0.0866	-2.00	100	0.00
39	CT	Chloroform	0.3625	0.3851	-6.23	103	0.00
40	T	111trichlota	0.2828	0.3061	-8.24	106	0.00
41	S	SURRDibrflma	0.2529	0.2468	2.41	96	0.00
42	T	Cyclohexane	0.3847	0.4299	-11.75	109	0.00
43	T	Carbtetraclo	0.1988	0.2105	-5.89	102	0.00
44	T	11dicloprope	0.0982	0.1040	-5.91	102	0.00
45	S	SURR12DCAd4	0.0567	0.0528	6.88	85	0.00
46	T	Benzene	0.8025	0.8797	-9.62	105	0.00
47	T	12dichlorota	0.3136	0.3318	-5.80	103	0.00
48	T	TAME	0.3980	0.4704	-18.19	115	0.00

49	T	trichloroete	0.2128	0.2354	-10.62	111	0.00
50	T	methylcyclohexane	0.2910	0.3300	-13.40	108	0.00
51	CT	12dicloropra	0.2449	0.2553	-4.25	105	0.00
52	T	23dicl1propene	0.3049	0.3262	-6.99	103	0.00
53	T	Dibromometha	0.1387	0.1361	1.87	99	0.00
54	T	methylmethacrylate	0.1275	0.1261	1.10	95	0.00
55	T	14dioxane	0.0023	0.0024#	-4.35	111	0.00
56	T	Bromodiclrma	0.2609	0.2661	-1.99	99	0.00
57	T	2Nitropropane	0.0397	0.0296	25.44	92	0.00
58	T	c13dicloproe	0.2569	0.2607	-1.48	101	0.00
59	T	4Meth2Pentan	0.2520	0.2724	-8.10	100	0.00
60	S	SURRd8Tolule	0.9885	0.9766	1.20	95	0.00
61	CT	Toluene	0.5107	0.5244	-2.68	102	0.00
62	T	t13Dicloprop	0.2046	0.2077	-1.52	104	0.00
63	T	ethylmethacrylate	0.2289	0.2346	-2.49	98	0.00
64	T	112Triclotha	0.1561	0.1652	-5.83	106	0.00
65	T	Tetrachlorte	0.2271	0.2463	-8.45	103	0.00
66	T	13Diclorpropa	0.3076	0.3115	-1.27	98	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	95	0.00
68	T	2Hexanone	0.2294	0.2483	-8.24	101	0.00
69	T	Clorodibrmta	0.2548	0.2549	-0.04	100	0.00
70	T	12Dibrometha	0.2357	0.2410	-2.25	98	0.00
71	PT	Chlorobenzen	0.7390	0.8036	-8.74	105	0.00
72	T	1Clhexane	0.3243	0.3490	-7.62	105	0.00
73	T	1112Tetclota	0.2383	0.2528	-6.08	106	0.00
74	CT	Ethylbenzene	1.1804	1.2943	-9.65	104	0.00
75	T	m p-Xylene	0.4594	0.4903	-6.73	102	0.00
76	T	o-Xylene	0.4528	0.4877	-7.71	107	0.00
77	T	Styrene	0.7676	0.8422	-9.72	104	0.00
78	PT	Bromoform	0.1699	0.1672	1.59	98	0.00
79	T	Isopropylben	1.1288	1.2263	-8.64	103	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	96	0.00
81	T	cyclohexanone	0.0157	0.0156	0.64	108	0.00
82	S	SURR4BrFBenz	0.8316	0.8124	2.31	96	0.00
83	T	Bromobenzene	0.6363	0.6858	-7.78	106	0.00
84	PT	1122Tetrclta	0.5626	0.5962	-5.97	105	0.00
85	T	123Triclproa	0.5553	0.6568	-18.28	124	0.00
86	T	14dichloro2butene	0.1041	0.1070	-2.79	96	-0.01
87	T	n-Propylbenz	2.5154	2.6707	-6.17	104	0.00
88	T	2chlorotolue	1.5063	1.5784	-4.79	102	0.00
89	T	4chlorotolue	1.7437	1.8360	-5.29	104	0.00
90	T	135Trimebenz	1.7691	1.8936	-7.04	103	0.00
91	T	tbutylbenzen	1.5446	1.6920	-9.54	107	0.00
92	T	124Trimetben	1.8332	1.9039	-3.86	102	0.00
93	T	sbutylbenzen	2.2893	2.4631	-7.59	104	0.00
94	T	13Diclorbenz	1.1557	1.2244	-5.94	106	0.00
95	T	pIsopropylto	1.9625	2.1114	-7.59	104	0.00
96	T	14dichlorobe	1.1828	1.2166	-2.86	101	0.00
97	T	12dichlorobe	1.1474	1.1584	-0.96	100	0.00
98	T	nButylbenzen	1.8015	1.8420	-2.25	102	0.00
99	T	12dibromo3cl	0.1034	0.1006	2.71	92	0.00
100	T	135Trichlorobenzene	0.8384	0.8261	1.47	97	0.00
101	T	124Trichlobe	0.7683	0.7421	3.41	96	0.00
102	T	Hexachlorobu	0.4448	0.4611	-3.66	102	0.00
103	T	Naphthalene	1.6993	1.7398	-2.38	98	0.00
104	T	123Trichlben	0.7481	0.7527	-0.61	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS031317.M Mon Mar 20 08:46:59 2017

Quantitation Report

Data File : C:\Instarch\Data\MAR1417\CCVF1.D Vial: 26
Acq On : 14 Mar 2017 21:51 Operator: RLD-AGK
Sample : 135664,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: Mar 14 22:11:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1085642	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	839723	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	467261	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	267936	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	57281	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.78	98	1060200	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	379590	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	149769	0.0123	mg/kg	98
3) Chloromethan	2.13	50	186768	0.0109	mg/kg	99
4) VinylChlorid	2.27	62	161903	0.0113	mg/kg	99
5) Bromomethane	2.75	94	77795	0.0107	mg/kg	97
6) Chloroethane	2.91	64	83868	0.0111	mg/kg	94
7) dichloroflmethane	3.23	67	216959	0.0113	mg/kg	91
8) Trichlorofma	3.30	101	167179	0.0112	mg/kg	100
9) Ethylether	3.75	59	111640	0.0109	mg/kg	91
10) dichlorotfluoroethan	3.77	67	121768	0.0106	mg/kg	98
11) propyleneoxide	3.81	58	202559	0.1122	mg/kg	91
12) Acrolein	3.91	56	128047	0.0474	mg/kg	87
13) 11dichlorthe	4.03	96	101847	0.0109	mg/kg	98
14) Trichlorotfluoroeth	4.06	101	209460	0.0221	mg/kg	98
15) Acetone	4.13	43	541829	0.1092	mg/kg	100
16) Iodomethane	4.22	142	170252	0.0207	mg/kg	99
17) Carbon Dislf	4.30	76	637877	0.0222	mg/kg	100
18) allylchloride	4.54	41	446957	0.0209	mg/kg	99
19) methylacetate	4.59	74	22474	0.0096	mg/kg	92
20) Methylchlorid	4.69	84	148093	0.0081	mg/kg	98
21) Acrylonitrile	5.02	53	250735	0.0514	mg/kg	98
22) t12dichlorte	5.06	96	109933	0.0109	mg/kg	99
23) tbutylalcohol	4.90	59	588367	0.5279	mg/kg	100
24) MtBE	5.08	73	284804	0.0105	mg/kg	99
25) Hexane	5.43	57	330440	0.0197	mg/kg	99
26) 11dichlorota	5.60	63	229908	0.0106	mg/kg	99
27) Vinylacetate	5.69	43	2394581	0.0979	mg/kg	99
28) chloroprene	5.72	53	441382	0.0224	mg/kg	100
29) Diisopether	5.72	45	541446	0.0109	mg/kg	95
30) ETBE	6.18	59	345990	0.0114	mg/kg	98
31) 22dichloropr	6.33	77	136648	0.0106	mg/kg	98
32) c12dichlorte	6.34	96	134617	0.0104	mg/kg	100
33) 2Butanone	6.36	72	118594	0.1002	mg/kg	96
34) propionitrile	6.43	54	197128	0.1020	mg/kg	98
35) Ethylacetate	6.45	88	18421	0.0448	mg/kg#	76
36) methacrylonitrile	6.62	67	88499	0.0203	mg/kg	98
37) Bromochlorma	6.63	128	62314	0.0102	mg/kg	94
38) Tetrahydofur	6.70	42	470084	0.1020	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1417\CCVF1.D Vial: 26
Acq On : 14 Mar 2017 21:51 Operator: RLD-AGK
Sample : 135664,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: Mar 14 22:11:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	209030	0.0106	mg/kg	98
40)	111trichlota	6.97	97	166160	0.0108	mg/kg	98
42)	Cyclohexane	7.04	56	233377	0.0112	mg/kg	98
43)	Carbtetraclo	7.18	119	114285	0.0106	mg/kg	97
44)	11dicloprope	7.18	110	56430	0.0106	mg/kg	95
46)	Benzene	7.43	78	477507	0.0110	mg/kg	99
47)	12dichlorota	7.44	62	180111	0.0106	mg/kg	99
48)	TAME	7.58	73	255319	0.0118	mg/kg	99
49)	trichloroete	8.24	95	127784	0.0111	mg/kg	92
50)	methylcyclohexane	8.48	83	179145	0.0113	mg/kg	99
51)	12dicloropra	8.51	63	138591	0.0104	mg/kg	91
52)	23dicl1propene	8.57	75	177053	0.0107	mg/kg	96
53)	Dibromometha	8.66	93	73863	0.0098	mg/kg	97
54)	methylmethacrylate	8.67	69	68427	0.0099	mg/kg	99
55)	14dioxane	8.69	88	66056	0.5350	mg/kg	90
56)	Bromodiclrma	8.86	83	144446	0.0102	mg/kg	97
57)	2Nitropropane	9.14	43	160665	0.0809	mg/kg	98
58)	c13dicloproe	9.43	75	141528	0.0102	mg/kg	95
59)	4Meth2Pentan	9.63	43	1478719	0.1081	mg/kg	100
61)	Toluene	9.87	92	284657	0.0103	mg/kg	97
62)	t13Dicloprop	10.15	75	112760	0.0102	mg/kg	100
63)	ethylmethacrylate	10.28	69	254705	0.0205	mg/kg	98
64)	112Triclotha	10.39	83	89663	0.0106	mg/kg	97
65)	Tetrachlorte	10.60	166	133694	0.0108	mg/kg	96
66)	13Diclorpropa	10.61	76	169113	0.0101	mg/kg	97
68)	2Hexanone	10.72	43	1042677	0.1083	mg/kg	99
69)	Clorodibrmta	10.92	129	107037	0.0100	mg/kg	98
70)	12Dibrometha	11.07	107	101200	0.0102	mg/kg	97
71)	Chlorobenzen	11.75	112	337382	0.0109	mg/kg	99
72)	1Clhexane	11.71	91	146532	0.0108	mg/kg	98
73)	1112Tetclota	11.86	131	106138	0.0106	mg/kg	96
74)	Ethylbenzene	11.90	91	543432	0.0110	mg/kg	99
75)	m p-Xylene	12.06	106	411719	0.0213	mg/kg	98
76)	o-Xylene	12.62	106	204770	0.0108	mg/kg	98
77)	Styrene	12.63	104	353615	0.0110	mg/kg	99
78)	Bromoform	12.88	173	70220	0.0098	mg/kg	99
79)	Isopropylben	13.14	105	514888	0.0109	mg/kg	99
81)	cyclohexanone	13.25	55	72953	0.1989	mg/kg	97
83)	Bromobenzene	13.56	156	160226	0.0108	mg/kg	96
84)	1122Tetrclta	13.55	83	139296	0.0106	mg/kg	99
85)	123Triclproa	13.61	75	153452	0.0118	mg/kg	91
86)	14dichloro2butene	13.63	53	24995	0.0101	mg/kg	87
87)	n-Propylbenz	13.73	91	623965	0.0106	mg/kg	99
88)	2chlorotolue	13.84	91	368764	0.0105	mg/kg	99
89)	4chlorotolue	14.00	91	428940	0.0105	mg/kg	100
90)	135Trimebenz	13.98	105	442414	0.0107	mg/kg	100
91)	tbutylbenzen	14.45	119	395309	0.0110	mg/kg	99
92)	124Trimetben	14.52	105	444817	0.0104	mg/kg	100
93)	sbutylbenzen	14.77	105	575459	0.0108	mg/kg	100
94)	13Diclorbenz	14.92	146	286065	0.0106	mg/kg	96
95)	pIsopropylto	14.99	119	493289	0.0108	mg/kg	99
96)	14dichlorobe	15.05	146	284235	0.0103	mg/kg	98
97)	12dichlorobe	15.60	146	270642	0.0101	mg/kg	99
98)	nButylbenzen	15.58	91	430350	0.0102	mg/kg	98
99)	12dibromo3cl	16.70	157	23508	0.0097	mg/kg	98
100)	135Trichlorobenzene	17.01	180	193002	0.0099	mg/kg	99
101)	124Trichlobe	17.82	180	173388	0.0097	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\MAR1417\CCVF1.D Vial: 26
Acq On : 14 Mar 2017 21:51 Operator: RLD-AGK
Sample : 135664,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: Mar 14 22:11:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	107737	0.0104	mg/kg	98
103) Naphthalene	18.13	128	406480	0.0102	mg/kg	99
104) 123Trichlben	18.44	180	175852	0.0101	mg/kg	98

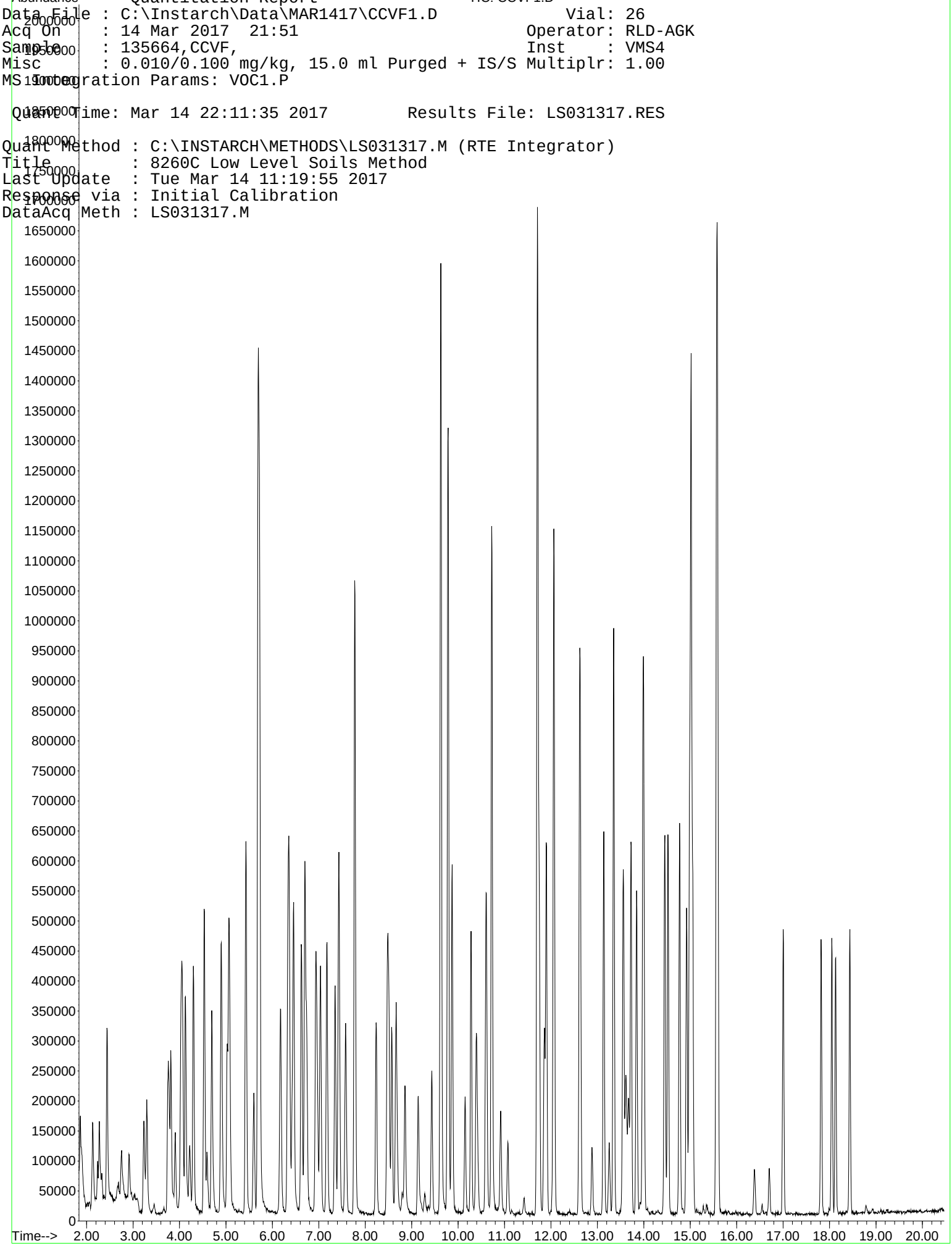
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCVF1.D

Data File : C:\Instarch\Data\MAR1417\CCVF1.D Vial: 26
Acq On : 14 Mar 2017 21:51 Operator: RLD-AGK
Sample : 135664,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: Mar 14 22:11:35 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



BFB

Data File : C:\Instarch\Data\MAR1617\BFB2.D Vial: 27
Acq On : 17 Mar 2017 7:48 Operator: RLD-AGK
Sample : 135661,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW031517.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.784 to 4.790 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	11101	PASS
75	95	30	60	50.5	24913	PASS
95	95	100	100	100.0	49317	PASS
96	95	5	9	6.2	3037	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.5	43659	PASS
175	174	5	9	6.4	2781	PASS
176	174	95	101	96.4	42073	PASS
177	176	5	9	7.9	3331	PASS

LW031517.M Mon Mar 20 09:10:35 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\MAR1617\CCV-LCS2.D Vial: 29
Acq On : 17 Mar 2017 8:31 Operator: RLD-AGK
Sample : 135661,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Mar 17 08:52:14 2017

Quant Method : C:\INSTARCH\METHODS\LW031517.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW031517.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	103	0.00
2	PT	Dichlorodi	0.3175	0.2880	9.29	97	0.00
3	PT	Chloromethan	0.4367	0.3834	12.21	96	0.00
4	PT	VinylChlorid	0.3520	0.3180	9.66	97	0.00
5	PT	Bromomethane	0.1581	0.1451	8.22	109	0.00
6	PT	Chloroethane	0.1879	0.1617	13.94	95	0.00
7	T	Dichloroflmethane	0.4489	0.4078	9.16	101	0.00
8	PT	Trichlorofma	0.3821	0.3563	6.75	102	0.00
9	T	Ethylether	0.1846	0.1717	6.99	102	0.00
10	T	dichlorotfluoroethan	0.2703	0.2541	5.99	102	0.00
11	T	propyleneoxide	0.0262	0.0258#	1.53	96	0.00
12	T	Acrolein	0.0333	0.0316	5.11	94	0.00
13	PT	11dichlorthe	0.2226	0.2096	5.84	108	0.00
14	PT	Trichlorotfluoroeth	0.2253	0.2097	6.92	107	0.00
15	PT	Acetone	0.0583	0.0474#	18.70	93	-0.02
16	T	Iodomethane	0.2087	0.1966	5.80	97	0.01
17	PT	Carbon Dislf	0.5245	0.5069	3.36	109	0.01
18	T	allylchloride	0.4625	0.4193	9.34	88	0.00
19	PT	methylacetate	0.0198	0.0194#	2.02	91	0.00
20	PT	Methylchlorid	0.3756	0.2582	31.26#	110	0.00
21	T	tbutylalcohol	0.0119	0.0106#	10.92	71	-0.07
22	T	Acrylonitrile	0.0578	0.0536	7.27	92	0.00
23	PT	t12dichlorte	0.2342	0.2147	8.33	113	0.01
24	PT	MtBE	0.4843	0.4421	8.71	97	-0.01
25	T	Hexane	0.3823	0.3547	7.22	94	0.01
26	PT	11dichlorota	0.5149	0.4624	10.20	100	0.01
27	T	Vinylacetate	0.3447	0.3708	-7.57	90	0.00
28	T	chloroprene	0.4595	0.4391	4.44	98	0.00
29	T	Diisopether	1.0847	0.9869	9.02	96	0.00
30	T	ETBE	0.7072	0.6528	7.69	98	-0.01
31	T	22dichloropr	0.3096	0.3035	1.97	110	0.00
32	PT	c12dichlorte	0.2890	0.2537	12.21	98	0.00
33	PT	2Butanone	0.0143	0.0132#	7.69	97	-0.02
34	T	propionitrile	0.0202	0.0189#	6.44	95	-0.02
35	T	Ethylacetate	0.0047	0.0046#	2.13	97	-0.01
36	T	methacrylonitrile	0.0542	0.0535	1.29	94	-0.01
37	T	Bromochlorma	0.1209	0.1097	9.26	99	0.00
38	T	Tetrahydofur	0.0565	0.0515	8.85	94	-0.02
39	PT	Chloroform	0.4680	0.4110	12.18	97	0.00
40	PT	111trichlota	0.3748	0.3572	4.70	101	0.00
41	S	SURRDibrflma	0.2516	0.2577	-2.42	104	0.00
42	PT	Cyclohexane	0.4940	0.4644	5.99	98	0.00
43	PT	Carbtetraclo	0.2533	0.2784	-9.91	116	0.00
44	T	11dicloprope	0.1254	0.1155	7.89	98	0.00
45	S	SURR12DCAd4	0.0522	0.0546	-4.60	104	0.00
46	PT	Benzene	1.0369	0.9474	8.63	99	0.00
47	PT	12dichlorota	0.3208	0.2857	10.94	97	0.00
48	T	TAME	0.5210	0.4728	9.25	96	0.00

49	PT	trichloroete	0.2656	0.2503	5.76	99	0.00
50	PT	methylcyclohexane	0.3986	0.3784	5.07	98	0.00
51	PT	12dicloropra	0.3059	0.2703	11.64	98	0.00
52	T	23Dicl1propene	0.3747	0.3434	8.35	98	0.00
53	T	Dibromometha	0.1261	0.1175	6.82	99	0.00
54	T	methylmethacrylate	0.0975	0.0914	6.26	96	0.00
55	T	14dioxane	0.0009	0.0008#	11.11	96	0.00
56	PT	Bromodiclrma	0.2925	0.2870	1.88	105	0.00
57	T	2Nitropropane	0.0329	0.0328	0.30	99	0.00
58	T	2CLEVE	0.0601	0.0740	-23.13#	109	0.00
59	PT	c13dicloproe	0.3188	0.2907	8.81	90	0.00
60	PT	4Meth2Pentan	0.1803	0.1723	4.44	95	0.00
61	S	SURRd8Tolule	0.9909	0.9965	-0.57	104	0.00
62	PT	Toluene	0.6440	0.5802	9.91	99	0.00
63	PT	t13Dicloprop	0.2217	0.2049	7.58	91	0.00
64	T	ethylmethacrylate	0.1971	0.1908	3.20	100	0.00
65	PT	112Triclotha	0.1502	0.1356	9.72	99	0.00
66	PT	Tetrachlorte	0.3056	0.2875	5.92	100	0.00
67	T	13Diclorpropa	0.2969	0.2687	9.50	93	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	103	0.00
69	PT	2Hexanone	0.1550	0.1486	4.13	93	0.00
70	PT	Clorodibrmta	0.2443	0.2352	3.72	102	0.00
71	PT	12Dibrometha	0.1997	0.1879	5.91	98	0.00
72	PT	Chlorobenzen	0.9096	0.8136	10.55	100	0.00
73	T	1Clhexane	0.4248	0.3842	9.56	100	0.00
74	T	1112Tetclota	0.2853	0.2689	5.75	103	0.00
75	PT	Ethylbenzene	1.4977	1.3788	7.94	100	0.00
76	PT	m p-Xylene	0.5870	0.5395	8.09	100	0.00
77	PT	o-Xylene	0.5713	0.5251	8.09	98	0.00
78	PT	Styrene	0.9249	0.8673	6.23	98	0.00
79	PT	Bromoform	0.1328	0.1333	-0.38	106	0.00
80	PT	Isopropylben	1.4334	1.3301	7.21	98	0.00
81	T	cyclohexanone	0.0048	0.0046#	4.17	88	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	100	0.00
83	S	SURR4BrFBenz	0.8129	0.8194	-0.80	104	0.00
84	T	Bromobenzene	0.6986	0.6261	10.38	98	0.00
85	PT	1122Tetrclta	0.4237	0.3933	7.17	100	0.00
86	T	123Triclproa	0.4091	0.3403	16.82	89	0.00
87	T	14dichloro2butene	0.0866	0.0724	16.40	70	0.00
88	T	n-Propylbenz	3.0857	2.8710	6.96	98	0.00
89	T	2chlorotolue	1.8209	1.6500	9.39	97	0.00
90	T	4chlorotolue	2.0707	1.8958	8.45	98	0.00
91	T	135Trimebenz	2.1525	2.0118	6.54	97	0.00
92	T	tbutylbenzen	1.9106	1.7807	6.80	98	0.00
93	T	124Trimetben	2.1800	2.0487	6.02	99	0.00
94	T	sbutylbenzen	2.7789	2.6476	4.72	98	0.00
95	PT	13Diclorbenz	1.3165	1.1798	10.38	97	0.00
96	T	pIsopropylto	2.3784	2.2425	5.71	97	0.00
97	PT	14dichlorobe	1.3069	1.1639	10.94	97	0.00
98	PT	12dichlorobe	1.2053	1.0871	9.81	97	0.00
99	T	nButylbenzen	2.0960	1.9430	7.30	96	0.00
100	PT	12dibromo3cl	0.0690	0.0634	8.12	94	0.00
101	T	135Trichlorobenzene	0.9042	0.8195	9.37	93	0.00
102	PT	124Trichlobe	0.7309	0.6612	9.54	95	0.00
103	T	Hexachlorobu	0.4170	0.3849	7.70	96	0.00
104	T	Naphthalene	1.1701	1.0621	9.23	89	0.00
105	T	123Trichlben	0.6263	0.5737	8.40	93	0.00

(#) = Out of Range SPCC's out = 3 CCC's out = 0

LW031517.M Mon Mar 20 09:32:00 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\MAR1617\CCV-LCS2.D Vial: 29
Acq On : 17 Mar 2017 8:31 Operator: RLD-AGK
Sample : 135661,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Mar 17 08:52:14 2017

Quant Method : C:\INSTARCH\METHODS\LW031517.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW031517.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	103	0.00
2	PT	Dichlorodi	4.0000	3.6281	9.30	97	0.00
3	PT	Chloromethan	4.0000	3.5122	12.20	96	0.00
4	PT	VinylChlorid	4.0000	3.6145	9.64	97	0.00
5	PT	Bromomethane	4.0000	3.6703	8.24	109	0.00
6	PT	Chloroethane	4.0000	3.4412	13.97	95	0.00
7	T	Dichloroflmethane	4.0000	3.6339	9.15	101	0.00
8	PT	Trichlorofma	4.0000	3.7304	6.74	102	0.00
9	T	Ethylether	4.0000	3.7209	6.98	102	0.00
10	T	dichlorotfluoroethan	4.0000	3.7604	5.99	102	0.00
11	T	propyleneoxide	40.0000	39.2811	1.80	96	0.00
12	T	Acrolein	20.0000	18.9544	5.23	94	0.00
13	PT	11dichlorthe	4.0000	3.7677	5.81	108	0.00
14	PT	Trichlorotfluoroeth	8.0000	7.4451	6.94	107	0.00
15	PT	Acetone	40.0000	38.4405	3.90	93	-0.02
16	T	Iodomethane	8.0000	7.0410	11.99	97	0.01
17	PT	Carbon Dislf	8.0000	7.7317	3.35	109	0.01
18	T	allylchloride	8.0000	7.2515	9.36	88	0.00
19	PT	methylacetate	4.0000	3.9077	2.31	91	0.00
20	PT	Methylchlorid	4.0000	3.9805	0.49	110	0.00
21	T	tbutylalcohol	200.0000	178.5418	10.73	71	-0.07
22	T	Acrylonitrile	20.0000	18.5386	7.31	92	0.00
23	PT	t12dichlorte	4.0000	3.6657	8.36	113	0.01
24	PT	MtBE	4.0000	3.6519	8.70	97	-0.01
25	T	Hexane	8.0000	7.4222	7.22	94	0.01
26	PT	11dichlorota	4.0000	3.5921	10.20	100	0.01
27	T	Vinylacetate	40.0000	36.2715	9.32	90	0.00
28	T	chloroprene	8.0000	7.6443	4.45	98	0.00
29	T	Diisopether	4.0000	3.6395	9.01	96	0.00
30	T	ETBE	4.0000	3.6924	7.69	98	-0.01
31	T	22dichloropr	4.0000	3.9217	1.96	110	0.00
32	PT	c12dichlorte	4.0000	3.5108	12.23	98	0.00
33	PT	2Butanone	40.0000	36.8986	7.75	97	-0.02
34	T	propionitrile	40.0000	37.5486	6.13	95	-0.02
35	T	Ethylacetate	20.0000	19.5808	2.10	97	-0.01
36	T	methacrylonitrile	8.0000	7.8972	1.29	94	-0.01
37	T	Bromochlorma	4.0000	3.6308	9.23	99	0.00
38	T	Tetrahydofur	40.0000	36.4571	8.86	94	-0.02
39	PT	Chloroform	4.0000	3.5131	12.17	97	0.00
40	PT	111trichlota	4.0000	3.8117	4.71	101	0.00
41	S	SURRDibrflma	4.0000	4.0956	-2.39	104	0.00
42	PT	Cyclohexane	4.0000	3.7604	5.99	98	0.00
43	PT	Carbtetraclo	4.0000	4.3948	-9.87	116	0.00
44	T	11dicloprope	4.0000	3.6839	7.90	98	0.00
45	S	SURR12DCAd4	4.0000	4.1822	-4.55	104	0.00
46	PT	Benzene	4.0000	3.6546	8.64	99	0.00
47	PT	12dichlorota	4.0000	3.5625	10.94	97	0.00
48	T	TAME	4.0000	3.6302	9.25	96	0.00

49	PT	trichloroete	4.0000	3.7695	5.76	99	0.00
50	PT	methylcyclohexane	4.0000	3.7974	5.06	98	0.00
51	PT	12dicloropra	4.0000	3.5344	11.64	98	0.00
52	T	23Dicl1propene	4.0000	3.6659	8.35	98	0.00
53	T	Dibromometha	4.0000	3.7274	6.82	99	0.00
54	T	methylmethacrylate	4.0000	3.7498	6.25	96	0.00
55	T	14dioxane	200.0000	178.2442	10.88	96	0.00
56	PT	Bromodiclrma	4.0000	3.9250	1.88	105	0.00
57	T	2Nitropropane	40.0000	39.9748	0.06	99	0.00
58	T	2CLEVE	20.0000	24.6345	-23.17#	109	0.00
59	PT	c13dicloproe	4.0000	3.6481	8.80	90	0.00
60	PT	4Meth2Pentan	40.0000	38.2242	4.44	95	0.00
61	S	SURRd8Tolule	4.0000	4.0227	-0.57	104	0.00
62	PT	Toluene	4.0000	3.6032	9.92	99	0.00
63	PT	t13Dicloprop	4.0000	3.6970	7.57	91	0.00
64	T	ethylmethacrylate	8.0000	7.7429	3.21	100	0.00
65	PT	112Triclotha	4.0000	3.6120	9.70	99	0.00
66	PT	Tetrachlorte	4.0000	3.7634	5.92	100	0.00
67	T	13Diclorpropa	4.0000	3.6194	9.51	93	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	103	0.00
69	PT	2Hexanone	40.0000	38.3371	4.16	93	0.00
70	PT	Clorodibrmta	4.0000	3.8502	3.74	102	0.00
71	PT	12Dibrometha	4.0000	3.7620	5.95	98	0.00
72	PT	Chlorobenzen	4.0000	3.5775	10.56	100	0.00
73	T	1Clhexane	4.0000	3.6176	9.56	100	0.00
74	T	1112Tetclota	4.0000	3.7707	5.73	103	0.00
75	PT	Ethylbenzene	4.0000	3.6827	7.93	100	0.00
76	PT	m p-Xylene	8.0000	7.3533	8.08	100	0.00
77	PT	o-Xylene	4.0000	3.6761	8.10	98	0.00
78	PT	Styrene	4.0000	3.7506	6.24	98	0.00
79	PT	Bromoform	4.0000	4.0130	-0.32	106	0.00
80	PT	Isopropylben	4.0000	3.7118	7.20	98	0.00
81	T	cyclohexanone	80.0000	75.3214	5.85	88	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	100	0.00
83	S	SURR4BrFBenz	4.0000	4.0319	-0.80	104	0.00
84	T	Bromobenzene	4.0000	3.5852	10.37	98	0.00
85	PT	1122Tetrclta	4.0000	3.7127	7.18	100	0.00
86	T	123Triclproa	4.0000	3.3270	16.83	89	0.00
87	T	14dichloro2butene	4.0000	3.3430	16.43	70	0.00
88	T	n-Propylbenz	4.0000	3.7217	6.96	98	0.00
89	T	2chlorotolue	4.0000	3.6246	9.38	97	0.00
90	T	4chlorotolue	4.0000	3.6620	8.45	98	0.00
91	T	135Trimebenz	4.0000	3.7384	6.54	97	0.00
92	T	tbutylbenzen	4.0000	3.7282	6.79	98	0.00
93	T	124Trimetben	4.0000	3.7591	6.02	99	0.00
94	T	sbutylbenzen	4.0000	3.8109	4.73	98	0.00
95	PT	13Diclorbenz	4.0000	3.5847	10.38	97	0.00
96	T	pIsopropylto	4.0000	3.7714	5.72	97	0.00
97	PT	14dichlorobe	4.0000	3.5624	10.94	97	0.00
98	PT	12dichlorobe	4.0000	3.6078	9.80	97	0.00
99	T	nButylbenzen	4.0000	3.7080	7.30	96	0.00
100	PT	12dibromo3cl	4.0000	3.6769	8.08	94	0.00
101	T	135Trichlorobenzene	4.0000	3.6252	9.37	93	0.00
102	PT	124Trichlobe	4.0000	3.6185	9.54	95	0.00
103	T	Hexachlorobu	4.0000	3.6925	7.69	96	0.00
104	T	Naphthalene	4.0000	3.6308	9.23	89	0.00
105	T	123Trichlben	4.0000	3.6640	8.40	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW031517.M Mon Mar 20 09:31:36 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\CCV-LCS2.D Vial: 29
Acq On : 17 Mar 2017 8:31 Operator: RLD-AGK
Sample : 135661,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: Mar 17 08:52:14 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 09:26:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1336852	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1071771	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	608097	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	344440	4.096	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102	%		
45) SURR12DCAd4	7.35	102	72962	4.182	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 105	%		
61) SURRd8Tolule	9.79	98	1332193	4.023	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101	%		
83) SURR4BrFBenz	13.35	95	498282	4.032	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 101	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	385042	3.6281	ug/L	100
3) Chloromethan	2.15	50	512566	3.5122	ug/L	98
4) VinylChlorid	2.27	62	425159	3.6145	ug/L	98
5) Bromomethane	2.76	94	193931	3.6703	ug/L	97
6) Chloroethane	2.92	64	216158	3.4412	ug/L	99
7) Dichloroflmethane	3.23	67	545194	3.6339	ug/L	99
8) Trichlorofma	3.30	101	476352	3.7304	ug/L	97
9) Ethylether	3.75	59	229532	3.7209	ug/L	90
10) dichlorotfluoroethan	3.77	67	339756	3.7604	ug/L	96
11) propyleneoxide	3.82	58	344257	39.2811	ug/L	89
12) Acrolein	3.91	56	211039	18.9544	ug/L	93
13) 11dichlorthe	4.03	96	280247	3.7677	ug/L	89
14) Trichlorotfluoroeth	4.06	101	560608	7.4451	ug/L	99
15) Acetone	4.13	43	633446	38.4405	ug/L	97
16) Iodomethane	4.23	142	525655	7.0410	ug/L	95
17) Carbon Dislf	4.30	76	1355407	7.7317	ug/L	100
18) allylchloride	4.54	41	1120980	7.2515	ug/L	94
19) methylacetate	4.60	74	25879	3.9077	ug/L	93
20) Methylchlorid	4.70	84	345115	3.9805	ug/L #	81
21) tbutylalcohol	4.90	59	711646	178.5418	ug/L	95
22) Acrylonitrile	5.03	53	357985	18.5386	ug/L	98
23) t12dichlorte	5.07	96	286968	3.6657	ug/L #	86
24) MtBE	5.08	73	591052	3.6519	ug/L	95
25) Hexane	5.43	57	948326	7.4222	ug/L	97
26) 11dichlorota	5.61	63	618158	3.5921	ug/L	99
27) Vinylacetate	5.69	43	4956481	36.2715	ug/L	100
28) chloroprene	5.72	53	1174063	7.6443	ug/L	100
29) Diisopether	5.72	45	1319399	3.6395	ug/L	98
30) ETBE	6.18	59	872757	3.6924	ug/L	99
31) 22dichloropr	6.34	77	405750	3.9217	ug/L	99
32) c12dichlorte	6.34	96	339151	3.5108	ug/L	98
33) 2Butanone	6.37	72	176257	36.8986	ug/L	94
34) propionitrile	6.43	54	252918	37.5486	ug/L	99
35) Ethylacetate	6.46	88	31063	19.5808	ug/L #	89
36) methacrylonitrile	6.62	67	143034	7.8972	ug/L	98
37) Bromochlorma	6.63	128	146713	3.6308	ug/L	96
38) Tetrahydofur	6.70	42	688892	36.4571	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\CCV-LCS2.D Vial: 29
Acq On : 17 Mar 2017 8:31 Operator: RLD-AGK
Sample : 135661,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: Mar 17 08:52:14 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 09:26:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.74	83	549439	3.5131 ug/L		99
40)	111trichlota	6.97	97	477520	3.8117 ug/L		99
42)	Cyclohexane	7.04	56	620842	3.7604 ug/L		99
43)	Carbtetraclo	7.18	119	372121	4.3948 ug/L		98
44)	11dicloprope	7.18	110	154379	3.6839 ug/L		98
46)	Benzene	7.43	78	1266494	3.6546 ug/L		100
47)	12dichlorota	7.44	62	381974	3.5625 ug/L		99
48)	TAME	7.58	73	632089	3.6302 ug/L		99
49)	trichloroete	8.23	95	334648	3.7695 ug/L		99
50)	methylcyclohexane	8.48	83	505869	3.7974 ug/L		99
51)	12dicloropra	8.51	63	361373	3.5344 ug/L		92
52)	23Dicl1propene	8.58	75	459065	3.6659 ug/L		99
53)	Dibromometha	8.65	93	157032	3.7274 ug/L		98
54)	methylmethacrylate	8.67	69	122189	3.7498 ug/L		97
55)	14dioxane	8.69	88	53833	178.2442 ug/L	#	37
56)	Bromodiclrma	8.86	83	383682	3.9250 ug/L		97
57)	2Nitropropane	9.14	43	439139	39.9748 ug/L		98
58)	2CLEVE	9.24	63	494816	24.6345 ug/L		99
59)	c13dicloproe	9.43	75	388670	3.6481 ug/L		100
60)	4Meth2Pentan	9.63	43	2303390	38.2242 ug/L		100
62)	Toluene	9.87	92	775597	3.6032 ug/L		100
63)	t13Dicloprop	10.15	75	273935	3.6970 ug/L		99
64)	ethylmethacrylate	10.28	69	510041	7.7429 ug/L		97
65)	112Triclotha	10.39	83	181341	3.6120 ug/L		98
66)	Tetrachlorte	10.60	166	384375	3.7634 ug/L		99
67)	13Diclorpropa	10.61	76	359154	3.6194 ug/L		99
69)	2Hexanone	10.72	43	1592179	38.3371 ug/L		98
70)	Clorodibrmta	10.92	129	252062	3.8502 ug/L		97
71)	12Dibrometha	11.08	107	201346	3.7620 ug/L		98
72)	Chlorobenzen	11.75	112	871952	3.5775 ug/L		98
73)	1Clhexane	11.71	91	411773	3.6176 ug/L		98
74)	1112Tetclota	11.86	131	288228	3.7707 ug/L		99
75)	Ethylbenzene	11.90	91	1477801	3.6827 ug/L		100
76)	m p-Xylene	12.06	106	1156518	7.3533 ug/L		100
77)	o-Xylene	12.62	106	562776	3.6761 ug/L		100
78)	Styrene	12.63	104	929513	3.7506 ug/L		99
79)	Bromoform	12.88	173	142834	4.0130 ug/L		98
80)	Isopropylben	13.14	105	1425585	3.7118 ug/L		100
81)	cyclohexanone	13.25	55	97783	75.3214 ug/L		96
84)	Bromobenzene	13.56	156	380754	3.5852 ug/L		98
85)	1122Tetrclta	13.55	83	239155	3.7127 ug/L		99
86)	123Triclproa	13.61	75	206925	3.3270 ug/L		97
87)	14dichloro2butene	13.64	53	44029	3.3430 ug/L		95
88)	n-Propylbenz	13.72	91	1745863	3.7217 ug/L		100
89)	2chlorotolue	13.84	91	1003381	3.6246 ug/L		98
90)	4chlorotolue	14.00	91	1152809	3.6620 ug/L		99
91)	135Trimebenz	13.98	105	1223352	3.7384 ug/L		99
92)	tbutylbenzen	14.45	119	1082868	3.7282 ug/L		99
93)	124Trimetben	14.52	105	1245806	3.7591 ug/L		100
94)	sbutylbenzen	14.77	105	1609970	3.8109 ug/L		100
95)	13Diclorbenz	14.93	146	717426	3.5847 ug/L		100
96)	pIsopropylto	14.99	119	1363631	3.7714 ug/L		99
97)	14dichlorobe	15.05	146	707783	3.5624 ug/L		99
98)	12dichlorobe	15.60	146	661078	3.6078 ug/L		97
99)	nButylbenzen	15.58	91	1181511	3.7080 ug/L		99
100)	12dibromo3cl	16.70	157	38568	3.6769 ug/L		98
101)	135Trichlorobenzene	17.01	180	498308	3.6252 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\CCV-LCS2.D Vial: 29
Acq On : 17 Mar 2017 8:31 Operator: RLD-AGK
Sample : 135661,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: Mar 17 08:52:14 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 09:26:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

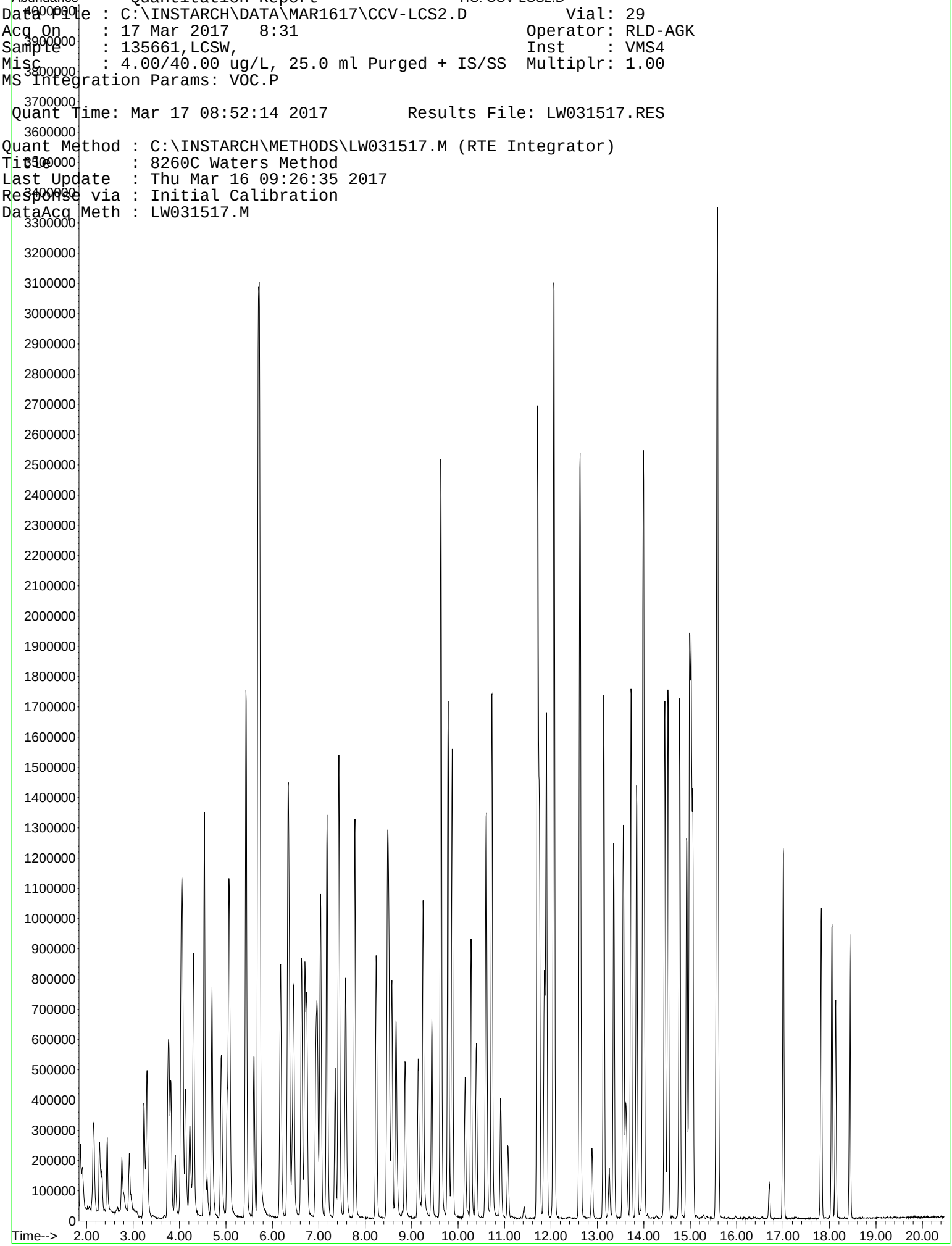
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	402096	3.6185	ug/L	98
103) Hexachlorobu	18.05	225	234078	3.6925	ug/L	100
104) Naphthalene	18.13	128	645846	3.6308	ug/L	99
105) 123Trichlben	18.44	180	348862	3.6640	ug/L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\MAR1617\CCV-LCS2.D Vial: 29
Acq On : 17 Mar 2017 8:31 Operator: RLD-AGK
Sample : 135661,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: Mar 17 08:52:14 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 09:26:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\MAR1617\LCSD1-CCVF2.D Vial: 41
Acq On : 17 Mar 2017 14:15 Operator: RLD-AGK
Sample : 135661,LCSDW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Mar 17 14:35:49 2017

Quant Method : C:\INSTARCH\METHODS\LW031517.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW031517.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	98	0.00
2	PT	Dichlorodi	0.3175	0.3032	4.50	97	0.00
3	PT	Chloromethan	0.4367	0.3933	9.94	94	0.00
4	PT	VinylChlorid	0.3520	0.3288	6.59	95	0.00
5	PT	Bromomethane	0.1581	0.1273	19.48	91	0.00
6	PT	Chloroethane	0.1879	0.1633	13.09	91	0.00
7	T	Dichloroflmethane	0.4489	0.4249	5.35	100	0.00
8	PT	Trichlorofma	0.3821	0.3837	-0.42	104	0.00
9	T	Ethylether	0.1846	0.1852	-0.33	105	0.00
10	T	dichlorotfluoroethan	0.2703	0.2635	2.52	100	0.00
11	T	propyleneoxide	0.0262	0.0265#	-1.15	93	0.00
12	T	Acrolein	0.0333	0.0309	7.21	87	0.00
13	PT	11dichlorthe	0.2226	0.2142	3.77	104	0.00
14	PT	Trichlorotfluoroeth	0.2253	0.2199	2.40	107	0.00
15	PT	Acetone	0.0583	0.0503#	13.72	93	-0.02
16	T	Iodomethane	0.2087	0.1525	26.93	71	0.01
17	PT	Carbon Dislf	0.5245	0.5168	1.47	105	0.01
18	T	allylchloride	0.4625	0.4330	6.38	86	0.00
19	PT	methylacetate	0.0198	0.0211#	-6.57	94	0.00
20	PT	Methylchlorid	0.3756	0.2631	29.95	106	0.00
21	T	tbutylalcohol	0.0119	0.0113#	5.04	72	-0.07
22	T	Acrylonitrile	0.0578	0.0563	2.60	91	0.00
23	PT	t12dichlorte	0.2342	0.2202	5.98	110	0.00
24	PT	MtBE	0.4843	0.4741	2.11	99	-0.01
25	T	Hexane	0.3823	0.3429	10.31	86	0.02
26	PT	11dichlorota	0.5149	0.4765	7.46	98	0.00
27	T	Vinylacetate	0.3447	0.3892	-12.91	90	0.00
28	T	chloroprene	0.4595	0.4587	0.17	97	0.00
29	T	Diisopether	1.0847	1.0691	1.44	98	0.00
30	T	ETBE	0.7072	0.6886	2.63	98	-0.02
31	T	22dichloropr	0.3096	0.2775	10.37	96	0.00
32	PT	c12dichlorte	0.2890	0.2682	7.20	98	0.00
33	PT	2Butanone	0.0143	0.0144#	-0.70	100	-0.02
34	T	propionitrile	0.0202	0.0199#	1.49	94	-0.02
35	T	Ethylacetate	0.0047	0.0046#	2.13	92	0.00
36	T	methacrylonitrile	0.0542	0.0528	2.58	88	-0.02
37	T	Bromochlorma	0.1209	0.1145	5.29	98	0.00
38	T	Tetrahydofur	0.0565	0.0533	5.66	92	-0.02
39	PT	Chloroform	0.4680	0.4265	8.87	96	0.00
40	PT	111trichlota	0.3748	0.3660	2.35	98	0.00
41	S	SURRDibrflma	0.2516	0.2558	-1.67	98	0.00
42	PT	Cyclohexane	0.4940	0.4959	-0.38	99	0.01
43	PT	Carbtetraclo	0.2533	0.2867	-13.19	113	0.01
44	T	11dicloprope	0.1254	0.1212	3.35	97	0.00
45	S	SURR12DCAd4	0.0522	0.0516	1.15	93	0.00
46	PT	Benzene	1.0369	0.9810	5.39	98	0.00
47	PT	12dichlorota	0.3208	0.2992	6.73	96	0.00
48	T	TAME	0.5210	0.5013	3.78	96	-0.01

49	PT	trichloroete	0.2656	0.2531	4.71	95	0.00
50	PT	methylcyclohexane	0.3986	0.3935	1.28	96	0.00
51	PT	12dicloropra	0.3059	0.2862	6.44	98	0.00
52	T	23Dicl1propene	0.3747	0.3555	5.12	96	0.00
53	T	Dibromometha	0.1261	0.1182	6.26	94	0.00
54	T	methylmethacrylate	0.0975	0.0952	2.36	94	0.00
55	T	14dioxane	0.0009	0.0010#	-11.11	108	-0.01
56	PT	Bromodiclrma	0.2925	0.2910	0.51	101	0.00
57	T	2Nitropropane	0.0329	0.0321	2.43	92	0.00
58	T	2CLEVE	0.0601	0.0811	-34.94	113	0.00
59	PT	c13dicloproe	0.3188	0.2898	9.10	85	0.00
60	PT	4Meth2Pentan	0.1803	0.1825	-1.22	95	0.00
61	S	SURRd8Tolule	0.9909	0.9982	-0.74	98	0.00
62	PT	Toluene	0.6440	0.6030	6.37	97	0.00
63	PT	t13Dicloprop	0.2217	0.2015	9.11	84	0.00
64	T	ethylmethacrylate	0.1971	0.1956	0.76	97	0.00
65	PT	112Triclotha	0.1502	0.1477	1.66	102	0.00
66	PT	Tetrachlorte	0.3056	0.2914	4.65	96	0.00
67	T	13Diclorpropa	0.2969	0.2837	4.45	93	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	98	0.00
69	PT	2Hexanone	0.1550	0.1560	-0.65	93	0.00
70	PT	Clorodibrmta	0.2443	0.2298	5.94	95	0.00
71	PT	12Dibrometha	0.1997	0.1905	4.61	95	0.00
72	PT	Chlorobenzen	0.9096	0.8327	8.45	98	0.00
73	T	1Clhexane	0.4248	0.3951	6.99	98	0.00
74	T	1112Tetclota	0.2853	0.2722	4.59	99	0.00
75	PT	Ethylbenzene	1.4977	1.4349	4.19	99	0.00
76	PT	m p-Xylene	0.5870	0.5531	5.78	98	0.00
77	PT	o-Xylene	0.5713	0.5462	4.39	97	0.00
78	PT	Styrene	0.9249	0.8996	2.74	97	0.00
79	PT	Bromoform	0.1328	0.1261	5.05	96	0.00
80	PT	Isopropylben	1.4334	1.3700	4.42	96	0.00
81	T	cyclohexanone	0.0048	0.0051#	-6.25	95	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	95	0.00
83	S	SURR4BrFBenz	0.8129	0.8082	0.58	98	0.00
84	T	Bromobenzene	0.6986	0.6490	7.10	97	0.00
85	PT	1122Tetrclta	0.4237	0.4159	1.84	101	0.00
86	T	123Triclproa	0.4091	0.4215	-3.03	105	0.00
87	T	14dichloro2butene	0.0866	0.0583	32.68	54	0.00
88	T	n-Propylbenz	3.0857	2.9344	4.90	96	0.00
89	T	2chlorotolue	1.8209	1.7001	6.63	96	0.00
90	T	4chlorotolue	2.0707	1.9384	6.39	95	0.00
91	T	135Trimebenz	2.1525	2.0678	3.93	95	0.00
92	T	tbutylbenzen	1.9106	1.8594	2.68	98	0.00
93	T	124Trimetben	2.1800	2.1129	3.08	97	0.00
94	T	sbutylbenzen	2.7789	2.7259	1.91	96	0.00
95	PT	13Diclorbenz	1.3165	1.2187	7.43	96	0.00
96	T	pIsopropylto	2.3784	2.2668	4.69	93	0.00
97	PT	14dichlorobe	1.3069	1.2165	6.92	96	0.00
98	PT	12dichlorobe	1.2053	1.1301	6.24	96	0.00
99	T	nButylbenzen	2.0960	1.9359	7.64	91	0.00
100	PT	12dibromo3cl	0.0690	0.0607	12.03	86	0.00
101	T	135Trichlorobenzene	0.9042	0.8380	7.32	91	0.00
102	PT	124Trichlobe	0.7309	0.6713	8.15	92	0.00
103	T	Hexachlorobu	0.4170	0.3844	7.82	91	0.00
104	T	Naphthalene	1.1701	1.0873	7.08	87	0.00
105	T	123Trichlben	0.6263	0.5835	6.83	90	0.00

(#) = Out of Range SPCC's out = 3 CCC's out = 0

LW031517.M Mon Mar 20 09:33:41 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\MAR1617\LCSD1-CCVF2.D Vial: 41
Acq On : 17 Mar 2017 14:15 Operator: RLD-AGK
Sample : 135661,LCSDW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Mar 17 14:35:49 2017

Quant Method : C:\INSTARCH\METHODS\LW031517.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW031517.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	98	0.00
2	PT	Dichlorodi	4.0000	3.8194	4.52	97	0.00
3	PT	Chloromethan	4.0000	3.6029	9.93	94	0.00
4	PT	VinylChlorid	4.0000	3.7372	6.57	95	0.00
5	PT	Bromomethane	4.0000	3.2217	19.46	91	0.00
6	PT	Chloroethane	4.0000	3.4764	13.09	91	0.00
7	T	Dichloroflmethane	4.0000	3.7859	5.35	100	0.00
8	PT	Trichlorofma	4.0000	4.0169	-0.42	104	0.00
9	T	Ethylether	4.0000	4.0126	-0.31	105	0.00
10	T	dichlorotfluoroethan	4.0000	3.8982	2.54	100	0.00
11	T	propyleneoxide	40.0000	40.3710	-0.93	93	0.00
12	T	Acrolein	20.0000	18.5619	7.19	87	0.00
13	PT	11dichlorthe	4.0000	3.8507	3.73	104	0.00
14	PT	Trichlorotfluoroeth	8.0000	7.8097	2.38	107	0.00
15	PT	Acetone	40.0000	41.0755	-2.69	93	-0.02
16	T	Iodomethane	8.0000	5.5823	30.22	71	0.01
17	PT	Carbon Dislf	8.0000	7.8826	1.47	105	0.01
18	T	allylchloride	8.0000	7.4886	6.39	86	0.00
19	PT	methylacetate	4.0000	4.2564	-6.41	94	0.00
20	PT	Methylchlorid	4.0000	4.0655	-1.64	106	0.00
21	T	tbutylalcohol	200.0000	189.5070	5.25	72	-0.07
22	T	Acrylonitrile	20.0000	19.4725	2.64	91	0.00
23	PT	t12dichlorte	4.0000	3.7602	5.99	110	0.00
24	PT	MtBE	4.0000	3.9163	2.09	99	-0.01
25	T	Hexane	8.0000	7.1765	10.29	86	0.02
26	PT	11dichlorota	4.0000	3.7014	7.46	98	0.00
27	T	Vinylacetate	40.0000	38.2470	4.38	90	0.00
28	T	chloroprene	8.0000	7.9848	0.19	97	0.00
29	T	Diisopether	4.0000	3.9424	1.44	98	0.00
30	T	ETBE	4.0000	3.8947	2.63	98	-0.02
31	T	22dichloropr	4.0000	3.5855	10.36	96	0.00
32	PT	c12dichlorte	4.0000	3.7112	7.22	98	0.00
33	PT	2Butanone	40.0000	40.2395	-0.60	100	-0.02
34	T	propionitrile	40.0000	39.4446	1.39	94	-0.02
35	T	Ethylacetate	20.0000	19.4769	2.62	92	0.00
36	T	methacrylonitrile	8.0000	7.7999	2.50	88	-0.02
37	T	Bromochlorma	4.0000	3.7879	5.30	98	0.00
38	T	Tetrahydofur	40.0000	37.6916	5.77	92	-0.02
39	PT	Chloroform	4.0000	3.6459	8.85	96	0.00
40	PT	111trichlota	4.0000	3.9056	2.36	98	0.00
41	S	SURRDibrflma	4.0000	4.0662	-1.66	98	0.00
42	PT	Cyclohexane	4.0000	4.0155	-0.39	99	0.01
43	PT	Carbtetraclo	4.0000	4.5264	-13.16	113	0.01
44	T	11dicloprope	4.0000	3.8674	3.32	97	0.00
45	S	SURR12DCAd4	4.0000	3.9555	1.11	93	0.00
46	PT	Benzene	4.0000	3.7842	5.40	98	0.00
47	PT	12dichlorota	4.0000	3.7304	6.74	96	0.00
48	T	TAME	4.0000	3.8487	3.78	96	-0.01

49	PT	trichloroete	4.0000	3.8120	4.70	95	0.00
50	PT	methylcyclohexane	4.0000	3.9484	1.29	96	0.00
51	PT	12dicloropra	4.0000	3.7421	6.45	98	0.00
52	T	23Dicl1propene	4.0000	3.7949	5.13	96	0.00
53	T	Dibromometha	4.0000	3.7500	6.25	94	0.00
54	T	methylmethacrylate	4.0000	3.9060	2.35	94	0.00
55	T	14dioxane	200.0000	211.0887	-5.54	108	-0.01
56	PT	Bromodiclrma	4.0000	3.9797	0.51	101	0.00
57	T	2Nitropropane	40.0000	39.0130	2.47	92	0.00
58	T	2CLEVE	20.0000	26.9749	-34.87	113	0.00
59	PT	c13dicloproe	4.0000	3.6366	9.08	85	0.00
60	PT	4Meth2Pentan	40.0000	40.4927	-1.23	95	0.00
61	S	SURRd8Tolule	4.0000	4.0295	-0.74	98	0.00
62	PT	Toluene	4.0000	3.7449	6.38	97	0.00
63	PT	t13Dicloprop	4.0000	3.6348	9.13	84	0.00
64	T	ethylmethacrylate	8.0000	7.9409	0.74	97	0.00
65	PT	112Triclotha	4.0000	3.9339	1.65	102	0.00
66	PT	Tetrachlorte	4.0000	3.8144	4.64	96	0.00
67	T	13Diclorpropa	4.0000	3.8216	4.46	93	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	98	0.00
69	PT	2Hexanone	40.0000	40.2705	-0.68	93	0.00
70	PT	Clorodibrmta	4.0000	3.7625	5.94	95	0.00
71	PT	12Dibrometha	4.0000	3.8147	4.63	95	0.00
72	PT	Chlorobenzen	4.0000	3.6615	8.46	98	0.00
73	T	1Clhexane	4.0000	3.7205	6.99	98	0.00
74	T	1112Tetclota	4.0000	3.8172	4.57	99	0.00
75	PT	Ethylbenzene	4.0000	3.8323	4.19	99	0.00
76	PT	m p-Xylene	8.0000	7.5379	5.78	98	0.00
77	PT	o-Xylene	4.0000	3.8237	4.41	97	0.00
78	PT	Styrene	4.0000	3.8904	2.74	97	0.00
79	PT	Bromoform	4.0000	3.7986	5.04	96	0.00
80	PT	Isopropylben	4.0000	3.8230	4.43	96	0.00
81	T	cyclohexanone	80.0000	85.0113	-6.26	95	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	95	0.00
83	S	SURR4BrFBenz	4.0000	3.9765	0.59	98	0.00
84	T	Bromobenzene	4.0000	3.7162	7.09	97	0.00
85	PT	1122Tetrclta	4.0000	3.9261	1.85	101	0.00
86	T	123Triclproa	4.0000	4.1210	-3.03	105	0.00
87	T	14dichloro2butene	4.0000	2.6922	32.69	54	0.00
88	T	n-Propylbenz	4.0000	3.8039	4.90	96	0.00
89	T	2chlorotolue	4.0000	3.7346	6.64	96	0.00
90	T	4chlorotolue	4.0000	3.7444	6.39	95	0.00
91	T	135Trimebenz	4.0000	3.8425	3.94	95	0.00
92	T	tbutylbenzen	4.0000	3.8928	2.68	98	0.00
93	T	124Trimetben	4.0000	3.8770	3.08	97	0.00
94	T	sbutylbenzen	4.0000	3.9237	1.91	96	0.00
95	PT	13Diclorbenz	4.0000	3.7028	7.43	96	0.00
96	T	pIsopropylto	4.0000	3.8124	4.69	93	0.00
97	PT	14dichlorobe	4.0000	3.7232	6.92	96	0.00
98	PT	12dichlorobe	4.0000	3.7504	6.24	96	0.00
99	T	nButylbenzen	4.0000	3.6945	7.64	91	0.00
100	PT	12dibromo3cl	4.0000	3.5179	12.05	86	0.00
101	T	135Trichlorobenzene	4.0000	3.7075	7.31	91	0.00
102	PT	124Trichlobe	4.0000	3.6736	8.16	92	0.00
103	T	Hexachlorobu	4.0000	3.6872	7.82	91	0.00
104	T	Naphthalene	4.0000	3.7171	7.07	87	0.00
105	T	123Trichlben	4.0000	3.7268	6.83	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW031517.M Mon Mar 20 09:33:19 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\LCSD1-CCVF2.D Vial: 41
Acq On : 17 Mar 2017 14:15 Operator: RLD-AGK
Sample : 135661,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: Mar 17 14:35:49 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1268227	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1020897	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	579736	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	324414	4.066	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102 %			
45) SURR12DCAd4	7.35	102	65465	3.956	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 99 %			
61) SURRd8Tolule	9.79	98	1265948	4.030	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101 %			
83) SURR4BrFBenz	13.35	95	468517	3.977	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	384540	3.8194	ug/L	99
3) Chloromethan	2.15	50	498818	3.6029	ug/L	96
4) VinylChlorid	2.28	62	417025	3.7372	ug/L	97
5) Bromomethane	2.76	94	161490	3.2217	ug/L	100
6) Chloroethane	2.92	64	207158	3.4764	ug/L	98
7) Dichloroflmethane	3.24	67	538839	3.7859	ug/L	92
8) Trichlorofma	3.30	101	486607	4.0169	ug/L	100
9) Ethylether	3.75	59	234823	4.0126	ug/L	90
10) dichlorotfluoroethan	3.77	67	334129	3.8982	ug/L	96
11) propyleneoxide	3.82	58	335647	40.3710	ug/L	92
12) Acrolein	3.91	56	196060	18.5619	ug/L	96
13) 11dichlorthe	4.03	96	271713	3.8507	ug/L	91
14) Trichlorotfluoroeth	4.06	101	557875	7.8097	ug/L	99
15) Acetone	4.13	43	638101	41.0755	ug/L	96
16) Iodomethane	4.23	142	386715	5.5823	ug/L	95
17) Carbon Dislf	4.31	76	1310927	7.8826	ug/L	100
18) allylchloride	4.54	41	1098199	7.4886	ug/L	96
19) methylacetate	4.60	74	26741	4.2564	ug/L	99
20) Methylchlorid	4.70	84	333686	4.0655	ug/L #	83
21) tbutylalcohol	4.90	59	716577	189.5070	ug/L	90
22) Acrylonitrile	5.03	53	356716	19.4725	ug/L	99
23) t12dichlorte	5.06	96	279251	3.7602	ug/L #	88
24) MtBE	5.08	73	601294	3.9163	ug/L	95
25) Hexane	5.44	57	869862	7.1765	ug/L	97
26) 11dichlorota	5.60	63	604254	3.7014	ug/L	99
27) Vinylacetate	5.69	43	4935706	38.2470	ug/L	100
28) chloroprene	5.72	53	1163410	7.9848	ug/L	100
29) Diisopether	5.72	45	1355830	3.9424	ug/L	99
30) ETBE	6.17	59	873316	3.8947	ug/L	99
31) 22dichloropr	6.34	77	351923	3.5855	ug/L	99
32) c12dichlorte	6.34	96	340105	3.7112	ug/L	97
33) 2Butanone	6.37	72	182349	40.2395	ug/L	94
34) propionitrile	6.43	54	252050	39.4446	ug/L	98
35) Ethylacetate	6.46	88	29312	19.4769	ug/L	95
36) methacrylonitrile	6.62	67	134020	7.7999	ug/L	96
37) Bromochlorma	6.64	128	145206	3.7879	ug/L	97
38) Tetrahydofur	6.70	42	675659	37.6916	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\LCSD1-CCVF2.D Vial: 41
Acq On : 17 Mar 2017 14:15 Operator: RLD-AGK
Sample : 135661,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: Mar 17 14:35:49 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	540935	3.6459 ug/L	99
40)	111trichlota	6.97	97	464174	3.9056 ug/L	98
42)	Cyclohexane	7.04	56	628921	4.0155 ug/L	100
43)	Carbtetraclo	7.18	119	363585	4.5264 ug/L	98
44)	11dicloprope	7.18	110	153752	3.8674 ug/L	99
46)	Benzene	7.43	78	1244080	3.7842 ug/L	99
47)	12dichlorota	7.44	62	379442	3.7304 ug/L	99
48)	TAME	7.58	73	635733	3.8487 ug/L	98
49)	trichloroete	8.24	95	321051	3.8120 ug/L	97
50)	methylcyclohexane	8.48	83	498993	3.9484 ug/L	100
51)	12dicloropra	8.51	63	362964	3.7421 ug/L	98
52)	23Dicl1propene	8.58	75	450816	3.7949 ug/L	99
53)	Dibromometha	8.66	93	149874	3.7500 ug/L	99
54)	methylmethacrylate	8.67	69	120745	3.9060 ug/L	97
55)	14dioxane	8.69	88	60480	211.0887 ug/L #	37
56)	Bromodiclrma	8.86	83	369060	3.9797 ug/L	98
57)	2Nitropropane	9.14	43	406574	39.0130 ug/L	98
58)	2CLEVE	9.24	63	514011	26.9749 ug/L	97
59)	c13dicloproe	9.43	75	367552	3.6366 ug/L	99
60)	4Meth2Pentan	9.63	43	2314832	40.4927 ug/L	99
62)	Toluene	9.87	92	764705	3.7449 ug/L	100
63)	t13Dicloprop	10.15	75	255501	3.6348 ug/L	98
64)	ethylmethacrylate	10.28	69	496232	7.9409 ug/L	100
65)	112Triclotha	10.39	83	187363	3.9339 ug/L	95
66)	Tetrachlorte	10.60	166	369592	3.8144 ug/L	99
67)	13Diclorpropa	10.61	76	359759	3.8216 ug/L	98
69)	2Hexanone	10.72	43	1593087	40.2705 ug/L	100
70)	Clorodibrmta	10.92	129	234625	3.7625 ug/L	96
71)	12Dibrometha	11.07	107	194476	3.8147 ug/L	100
72)	Chlorobenzen	11.75	112	850069	3.6615 ug/L	99
73)	1Clhexane	11.72	91	403391	3.7205 ug/L	97
74)	1112Tetclota	11.85	131	277934	3.8172 ug/L	99
75)	Ethylbenzene	11.90	91	1464855	3.8323 ug/L	100
76)	m p-Xylene	12.07	106	1129281	7.5379 ug/L	100
77)	o-Xylene	12.62	106	557581	3.8237 ug/L	100
78)	Styrene	12.63	104	918371	3.8904 ug/L	100
79)	Bromoform	12.89	173	128785	3.7986 ug/L	99
80)	Isopropylben	13.14	105	1398598	3.8230 ug/L	99
81)	cyclohexanone	13.26	55	105124	85.0113 ug/L	96
84)	Bromobenzene	13.56	156	376262	3.7162 ug/L	98
85)	1122Tetrclta	13.55	83	241104	3.9261 ug/L	95
86)	123Triclproa	13.62	75	244360	4.1210 ug/L	94
87)	14dichloro2butene	13.64	53	33804	2.6922 ug/L	100
88)	n-Propylbenz	13.72	91	1701204	3.8039 ug/L	100
89)	2chlorotolue	13.85	91	985606	3.7346 ug/L	98
90)	4chlorotolue	14.00	91	1123753	3.7444 ug/L	99
91)	135Trimebenz	13.98	105	1198757	3.8425 ug/L	97
92)	tbutylbenzen	14.45	119	1077940	3.8928 ug/L	99
93)	124Trimetben	14.53	105	1224935	3.8770 ug/L	99
94)	sbutylbenzen	14.77	105	1580300	3.9237 ug/L	98
95)	13Diclorbenz	14.92	146	706498	3.7028 ug/L	99
96)	pIsopropylto	14.99	119	1314150	3.8124 ug/L	98
97)	14dichlorobe	15.05	146	705233	3.7232 ug/L	98
98)	12dichlorobe	15.60	146	655141	3.7504 ug/L	97
99)	nButylbenzen	15.58	91	1122297	3.6945 ug/L	99
100)	12dibromo3cl	16.70	157	35179	3.5179 ug/L	94
101)	135Trichlorobenzene	17.01	180	485846	3.7075 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\LCSD1-CCVF2.D Vial: 41
Acq On : 17 Mar 2017 14:15 Operator: RLD-AGK
Sample : 135661,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: Mar 17 14:35:49 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	389180	3.6736	ug/L	98
103) Hexachlorobu	18.05	225	222840	3.6872	ug/L	98
104) Naphthalene	18.13	128	630346	3.7171	ug/L	100
105) 123Trichlben	18.44	180	338296	3.7268	ug/L	98

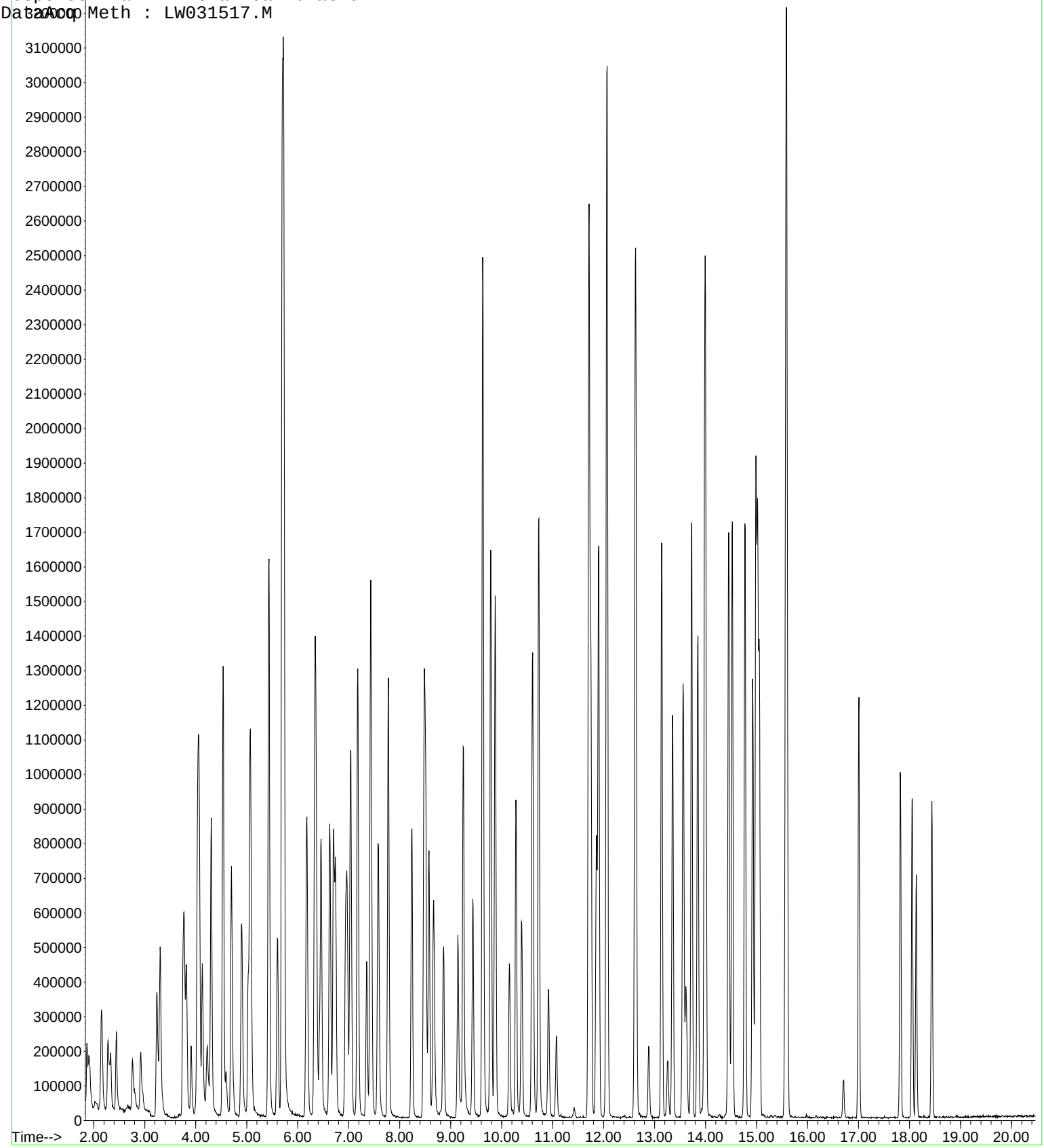
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCSD1-CCVF2.D

Data File : C:\INSTARCH\DATA\MAR1617\LCSD1-CCVF2.D Vial: 41
Acq On : 17 Mar 2017 14:15 Operator: RLD-AGK
Sample : 135661,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: Mar 17 14:35:49 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



VOLATILE ORGANIC ANALYSIS
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DOCUMENTS

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\LCS1.D Vial: 4
Acq On : 14 Mar 2017 11:21 Operator: RLD-AGK
Sample : 135664,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: Mar 14 11:41:38 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1132475	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	911624	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	493357	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	291833	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	65179	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1121737	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	414631	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	162697	0.0128	mg/kg	99
3) Chloromethan	2.13	50	199007	0.0111	mg/kg	100
4) VinylChlorid	2.27	62	171157	0.0115	mg/kg	98
5) Bromomethane	2.75	94	90477	0.0119	mg/kg	94
6) Chloroethane	2.92	64	90019	0.0114	mg/kg	96
7) dichloroflmethane	3.23	67	230511	0.0115	mg/kg	98
8) Trichlorofma	3.30	101	178921	0.0115	mg/kg	100
9) Ethylether	3.75	59	121765	0.0114	mg/kg	92
10) dichlorotfluoroethan	3.77	67	139884	0.0117	mg/kg	99
11) propyleneoxide	3.81	58	209294	0.1111	mg/kg	93
12) Acrolein	3.91	56	138269	0.0491	mg/kg	93
13) 11dichlorthe	4.03	96	110996	0.0114	mg/kg	99
14) Trichlorotfluoroeth	4.06	101	231715	0.0235	mg/kg	98
15) Acetone	4.13	43	576370	0.1114	mg/kg	100
16) Iodomethane	4.21	142	186946	0.0217	mg/kg	99
17) Carbon Dislf	4.30	76	685365	0.0229	mg/kg	99
18) allylchloride	4.53	41	483019	0.0217	mg/kg	99
19) methylacetate	4.59	74	24206	0.0099	mg/kg	90
20) Methylchlorid	4.69	84	163057	0.0089	mg/kg	95
21) Acrylonitrile	5.02	53	253801	0.0499	mg/kg	97
22) t12dichlorte	5.06	96	118009	0.0112	mg/kg	97
23) tbutylalcohol	4.90	59	578076	0.4973	mg/kg	98
24) MtBE	5.08	73	291275	0.0103	mg/kg	99
25) Hexane	5.43	57	367201	0.0210	mg/kg	97
26) 11dichlorota	5.60	63	245060	0.0108	mg/kg	98
27) Vinylacetate	5.69	43	2392912	0.0941	mg/kg	99
28) chloroprene	5.72	53	483862	0.0235	mg/kg	99
29) Diisopether	5.72	45	553481	0.0107	mg/kg#	91
30) ETBE	6.18	59	339582	0.0107	mg/kg	98
31) 22dichloropr	6.34	77	157318	0.0117	mg/kg	98
32) c12dichlorte	6.34	96	140760	0.0105	mg/kg	97
33) 2Butanone	6.36	72	129396	0.1048	mg/kg	93
34) propionitrile	6.43	54	194579	0.0965	mg/kg	98
35) Ethylacetate	6.46	88	20825	0.0485	mg/kg	99
36) methacrylonitrile	6.62	67	91551	0.0201	mg/kg	99
37) Bromochlorma	6.63	128	68266	0.0107	mg/kg	99
38) Tetrahydofur	6.70	42	474560	0.0987	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\LCS1.D Vial: 4
Acq On : 14 Mar 2017 11:21 Operator: RLD-AGK
Sample : 135664,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: Mar 14 11:41:38 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	226698	0.0110	mg/kg	97
40)	111trichlota	6.96	97	182774	0.0114	mg/kg	96
42)	Cyclohexane	7.04	56	250467	0.0115	mg/kg	99
43)	Carbtetraclo	7.18	119	130055	0.0116	mg/kg	98
44)	11dicloprope	7.18	110	60399	0.0109	mg/kg#	89
46)	Benzene	7.43	78	499068	0.0110	mg/kg	99
47)	12dichlorota	7.44	62	186824	0.0105	mg/kg	99
48)	TAME	7.58	73	247818	0.0110	mg/kg	97
49)	trichloroete	8.24	95	136623	0.0113	mg/kg	95
50)	methylcyclohexane	8.48	83	197247	0.0120	mg/kg	100
51)	12dicloropra	8.51	63	150960	0.0109	mg/kg	99
52)	23dicl1propene	8.57	75	187895	0.0109	mg/kg	95
53)	Dibromometha	8.66	93	81139	0.0103	mg/kg	98
54)	methylmethacrylate	8.67	69	74872	0.0104	mg/kg	98
55)	14dioxane	8.69	88	58228	0.4521	mg/kg	99
56)	Bromodiclrma	8.86	83	159474	0.0108	mg/kg	99
57)	2Nitropropane	9.14	43	181378	0.0862	mg/kg	98
58)	c13dicloproe	9.43	75	150146	0.0103	mg/kg	95
59)	4Meth2Pentan	9.63	43	1546593	0.1084	mg/kg	99
61)	Toluene	9.87	92	313252	0.0108	mg/kg	99
62)	t13Dicloprop	10.15	75	119766	0.0103	mg/kg	98
63)	ethylmethacrylate	10.28	69	276179	0.0213	mg/kg	99
64)	112Triclotha	10.39	83	92446	0.0105	mg/kg	96
65)	Tetrachlorte	10.60	166	143142	0.0111	mg/kg	99
66)	13Diclorpropa	10.61	76	182015	0.0105	mg/kg	98
68)	2Hexanone	10.72	43	1097900	0.1050	mg/kg	98
69)	Clorodibrmta	10.92	129	116373	0.0100	mg/kg	97
70)	12Dibrometha	11.07	107	109509	0.0102	mg/kg	98
71)	Chlorobenzen	11.75	112	358740	0.0107	mg/kg	100
72)	1Clhexane	11.71	91	159883	0.0108	mg/kg	98
73)	1112Tetclota	11.86	131	111319	0.0103	mg/kg	99
74)	Ethylbenzene	11.90	91	585288	0.0109	mg/kg	98
75)	m p-Xylene	12.06	106	454526	0.0217	mg/kg	100
76)	o-Xylene	12.62	106	221225	0.0107	mg/kg	95
77)	Styrene	12.63	104	374784	0.0107	mg/kg	98
78)	Bromoform	12.88	173	74133	0.0096	mg/kg	92
79)	Isopropylben	13.14	105	572025	0.0111	mg/kg	99
81)	cyclohexanone	13.25	55	74643	0.1927	mg/kg	97
83)	Bromobenzene	13.56	156	173452	0.0110	mg/kg	94
84)	1122Tetrclta	13.55	83	143848	0.0104	mg/kg	99
85)	123Triclproa	13.61	75	135831	0.0099	mg/kg	100
86)	14dichloro2butene	13.63	53	29208	0.0111	mg/kg	83
87)	n-Propylbenz	13.72	91	682550	0.0110	mg/kg	98
88)	2chlorotolue	13.84	91	406139	0.0109	mg/kg	98
89)	4chlorotolue	14.00	91	468967	0.0109	mg/kg	97
90)	135Trimebenz	13.98	105	490992	0.0113	mg/kg	98
91)	tbutylbenzen	14.45	119	430027	0.0113	mg/kg	100
92)	124Trimetben	14.52	105	506323	0.0112	mg/kg	98
93)	sbutylbenzen	14.77	105	640178	0.0113	mg/kg	100
94)	13Diclorbenz	14.92	146	309859	0.0109	mg/kg	98
95)	pIsopropylto	14.99	119	545092	0.0113	mg/kg	97
96)	14dichlorobe	15.05	146	311403	0.0107	mg/kg	98
97)	12dichlorobe	15.60	146	296594	0.0105	mg/kg	99
98)	nButylbenzen	15.58	91	486153	0.0109	mg/kg	98
99)	12dibromo3cl	16.70	157	27428	0.0108	mg/kg	94
100)	135Trichlorobenzene	17.01	180	233382	0.0113	mg/kg	97
101)	124Trichlobe	17.82	180	206995	0.0109	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\LCS1.D Vial: 4
Acq On : 14 Mar 2017 11:21 Operator: RLD-AGK
Sample : 135664,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: Mar 14 11:41:38 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

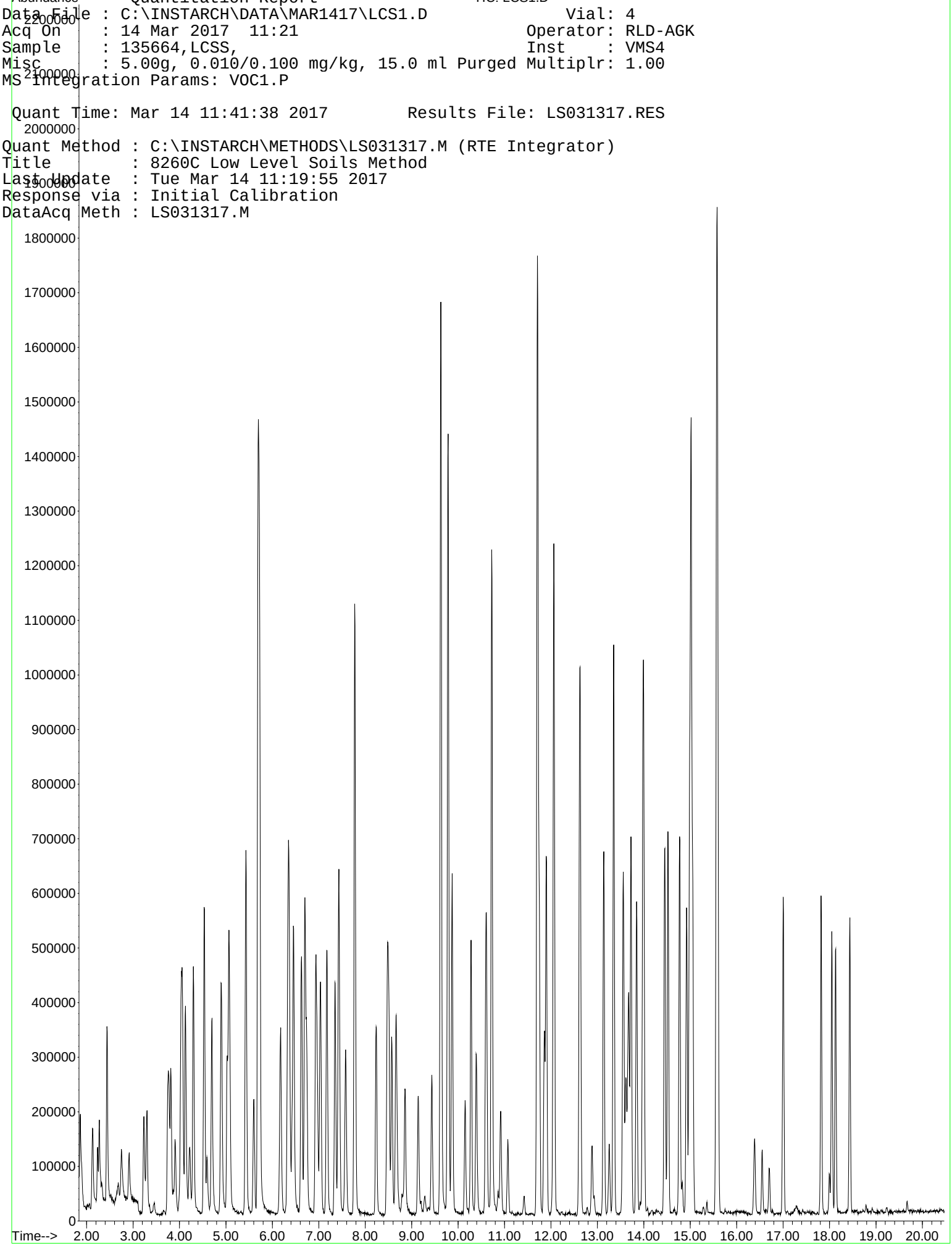
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	120369	0.0110	mg/kg	97
103) Naphthalene	18.13	128	452178	0.0108	mg/kg	98
104) 123Trichlben	18.44	180	199721	0.0108	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\MAR1417\LCS1.D Vial: 4
Acq On : 14 Mar 2017 11:21 Operator: RLD-AGK
Sample : 135664,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: Mar 14 11:41:38 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\MB1.D Vial: 6
Acq On : 14 Mar 2017 12:18 Operator: RLD-AGK
Sample : 135664,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 12:49:58 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1071769	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	858548	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	471874	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	244156	0.018	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 90 %			
45) SURR12DCAd4	7.35	102	60657	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1068986	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	389791	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.94	85	168	N.D.		
3) Chloromethan	2.12	50	2650	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.70	94	1127	N.D.		
6) Chloroethane	2.92	64	2563	N.D.		
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	4.14	43	42906	N.D.		
16) Iodomethane	4.22	142	4485	0.0020	mg/kg#	43
17) Carbon Dislf	4.30	76	4502	N.D.		
18) allylchloride	4.52	41	12760	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	19765	Below	Cal	98
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	2559	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	1541	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	6.71	42	4673	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\MB1.D Vial: 6
Acq On : 14 Mar 2017 12:18 Operator: RLD-AGK
Sample : 135664,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 12:49:58 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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	7.46	78	1086	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	9.63	43	4291	N.D.	
61)	Toluene	9.87	92	2512	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	10.74	43	7541	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	11.71	91	1465	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.89	91	2136	N.D.	
75)	m p-Xylene	12.06	106	1119	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	12.64	104	3945	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.14	55	1115	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.68	75	5691	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.72	91	1618	N.D.	
88)	2chlorotolue	13.72	91	1343	N.D.	
89)	4chlorotolue	13.99	91	1462	N.D.	
90)	135Trimebenz	0.00	105	0	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.53	105	6609	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	15.01	146	1316	N.D.	
95)	pIsopropylto	14.98	119	3136	N.D.	
96)	14dichlorobe	15.01	146	1984	N.D.	
97)	12dichlorobe	15.59	146	1277	N.D.	
98)	nButylbenzen	15.57	91	2474	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	17.00	180	1049	N.D.	
101)	124Trichlobe	17.82	180	1564	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\MB1.D Vial: 6
Acq On : 14 Mar 2017 12:18 Operator: RLD-AGK
Sample : 135664,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 12:49:58 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	7123	N.D.	
104) 123Trichlben	18.44	180	1439	N.D.	

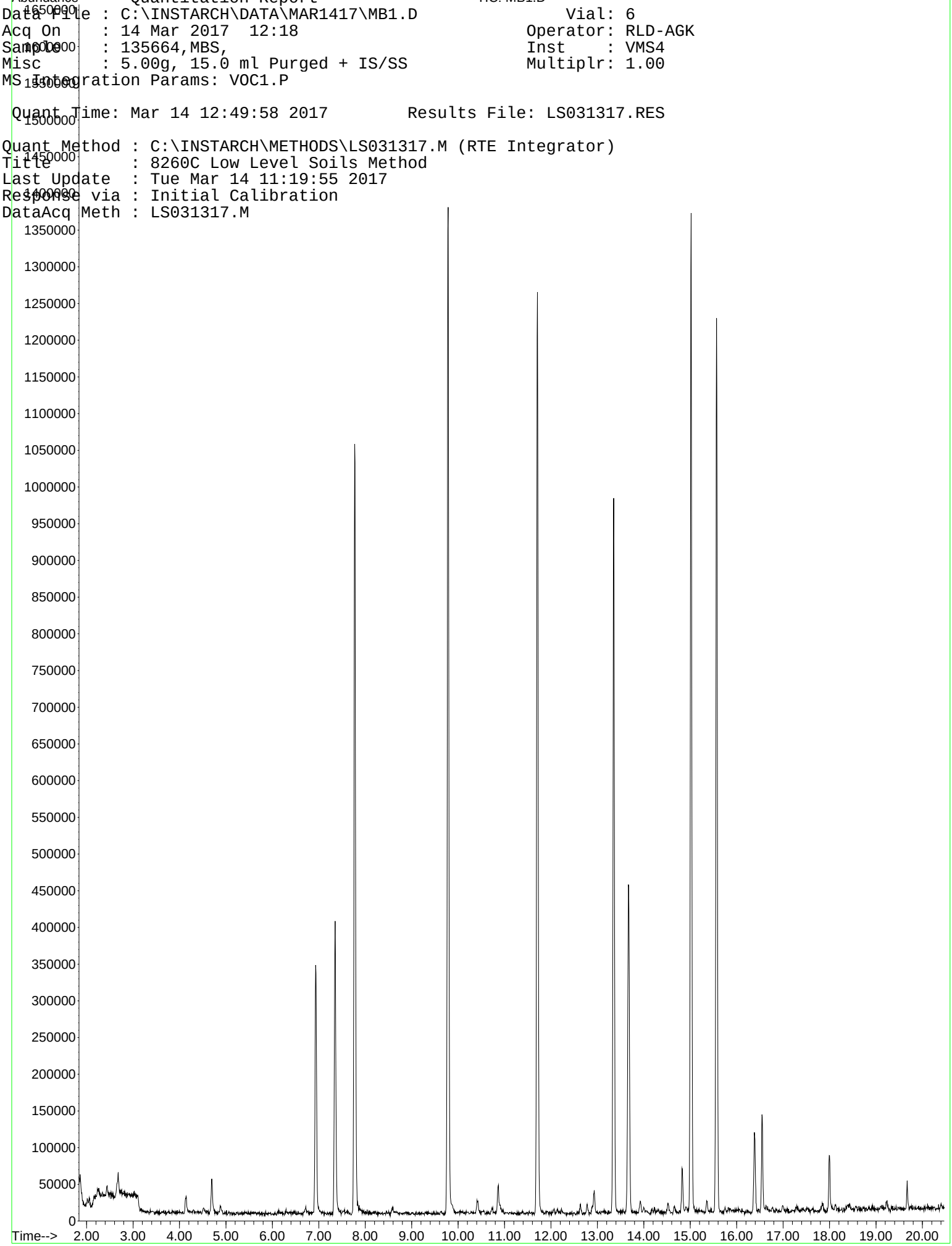
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: MB1.D

Data File : C:\INSTARCH\DATA\MAR1417\MB1.D Vial: 6
Acq On : 14 Mar 2017 12:18 Operator: RLD-AGK
Sample : 135664,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 12:49:58 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840394MS.D Vial: 24
Acq On : 14 Mar 2017 20:53 Operator: RLD-AGK
Sample : 135664,MSS840394, Inst : VMS4
Misc : 4.93g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 21:14:25 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.78	96	1113910	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	898623	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	501409	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	286117	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	69094	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.78	98	1121651	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	415763	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	161214	0.0129	mg/kg	98
3) Chloromethan	2.13	50	210385	0.0120	mg/kg	98
4) VinylChlorid	2.27	62	180313	0.0123	mg/kg	99
5) Bromomethane	2.75	94	88086	0.0118	mg/kg	97
6) Chloroethane	2.91	64	92959	0.0120	mg/kg	99
7) dichloroflmethane	3.23	67	233529	0.0119	mg/kg	98
8) Trichlorofma	3.30	101	190702	0.0124	mg/kg	96
9) Ethylether	3.75	59	115342	0.0110	mg/kg	97
10) dichlorotfluoroethan	3.77	67	142194	0.0121	mg/kg	96
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	3.91	56	35693	0.0129	mg/kg#	75
13) 11dichlorthe	4.03	96	113007	0.0118	mg/kg	97
14) Trichlorotfluoroeth	4.06	101	240594	0.0248	mg/kg	98
15) Acetone	4.13	43	715403	0.1406	mg/kg	99
16) Iodomethane	4.22	142	185611	0.0219	mg/kg	98
17) Carbon Dislf	4.30	76	705571	0.0239	mg/kg	100
18) allylchloride	4.53	41	457628	0.0209	mg/kg	97
19) methylacetate	4.60	74	15531	0.0065	mg/kg	90
20) Methylchlorid	4.70	84	135939	0.0067	mg/kg	97
21) Acrylonitrile	5.02	53	272570	0.0544	mg/kg	99
22) t12dichlorte	5.06	96	120680	0.0117	mg/kg	99
23) tbutylalcohol	4.90	59	798771	0.6986	mg/kg	97
24) MtBE	5.08	73	312840	0.0112	mg/kg	98
25) Hexane	5.43	57	450965	0.0262	mg/kg	99
26) 11dichlorota	5.60	63	250933	0.0113	mg/kg	99
27) Vinylacetate	5.70	43	937737	0.0427	mg/kg	97
28) chloroprene	5.72	53	324299	0.0160	mg/kg	98
29) Diisopether	5.72	45	543472	0.0107	mg/kg#	1
30) ETBE	6.18	59	341369	0.0110	mg/kg	99
31) 22dichloropr	6.34	77	146573	0.0111	mg/kg	97
32) c12dichlorte	6.34	96	149087	0.0113	mg/kg	99
33) 2Butanone	6.36	72	149898	0.1234	mg/kg	98
34) propionitrile	6.43	54	219907	0.1109	mg/kg	99
35) Ethylacetate	6.45	88	15160	0.0359	mg/kg#	86
36) methacrylonitrile	6.62	67	100490	0.0225	mg/kg	98
37) Bromochlorma	6.63	128	67754	0.0108	mg/kg	96
38) Tetrahydofur	6.70	42	536129	0.1134	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840394MS.D Vial: 24
Acq On : 14 Mar 2017 20:53 Operator: RLD-AGK
Sample : 135664,MSS840394, Inst : VMS4
Misc : 4.93g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 21:14:25 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	224804	0.0111	mg/kg	99
40)	111trichlota	6.97	97	175972	0.0112	mg/kg	97
42)	Cyclohexane	7.04	56	262565	0.0123	mg/kg	99
43)	Carbtetraclo	7.18	119	122747	0.0111	mg/kg	99
44)	11dicloprope	7.17	110	65309	0.0119	mg/kg	99
46)	Benzene	7.43	78	520804	0.0117	mg/kg	98
47)	12dichlorota	7.44	62	194087	0.0111	mg/kg	99
48)	TAME	7.58	73	247597	0.0112	mg/kg	96
49)	trichloroete	8.23	95	138144	0.0117	mg/kg	94
50)	methylcyclohexane	8.48	83	200513	0.0124	mg/kg	98
51)	12dicloropra	8.51	63	157854	0.0116	mg/kg	90
52)	23dicl1propene	8.58	75	183662	0.0108	mg/kg	96
53)	Dibromometha	8.66	93	85939	0.0111	mg/kg	95
54)	methylmethacrylate	8.67	69	75627	0.0107	mg/kg	98
55)	14dioxane	8.69	88	105800	0.8352	mg/kg	95
56)	Bromodiclrma	8.86	83	158759	0.0109	mg/kg	97
57)	2Nitropropane	9.14	43	187655	0.0897	mg/kg	99
58)	c13dicloproe	9.43	75	149987	0.0105	mg/kg	96
59)	4Meth2Pentan	9.63	43	1893393	0.1349	mg/kg	100
61)	Toluene	9.87	92	323982	0.0114	mg/kg	97
62)	t13Dicloprop	10.15	75	116227	0.0102	mg/kg	99
63)	ethylmethacrylate	10.28	69	263915	0.0207	mg/kg	99
64)	112Triclotha	10.39	83	98636	0.0113	mg/kg	98
65)	Tetrachlorte	10.60	166	148686	0.0118	mg/kg	96
66)	13Diclorpropa	10.61	76	189701	0.0111	mg/kg	99
68)	2Hexanone	10.72	43	1269617	0.1232	mg/kg	99
69)	Clorodibrmta	10.92	129	115814	0.0101	mg/kg	97
70)	12Dibrometha	11.07	107	116704	0.0110	mg/kg	100
71)	Chlorobenzen	11.75	112	357027	0.0108	mg/kg	99
72)	1Clhexane	11.71	91	158952	0.0109	mg/kg	98
73)	1112Tetclota	11.86	131	105760	0.0099	mg/kg	98
74)	Ethylbenzene	11.90	91	592309	0.0112	mg/kg	99
75)	m p-Xylene	12.06	106	451608	0.0219	mg/kg	99
76)	o-Xylene	12.62	106	214196	0.0105	mg/kg	99
77)	Styrene	12.63	104	59688	0.0017	mg/kg#	41
78)	Bromoform	12.88	173	73825	0.0097	mg/kg	95
79)	Isopropylben	13.14	105	555165	0.0109	mg/kg	100
81)	cyclohexanone	13.25	55	117407	0.2983	mg/kg	99
83)	Bromobenzene	13.57	156	161234	0.0101	mg/kg	94
84)	1122Tetrclta	13.55	83	162373	0.0115	mg/kg	98
85)	123Triclproa	13.61	75	171717	0.0123	mg/kg	89
86)	14dichloro2butene	13.64	53	25692	0.0097	mg/kg	88
87)	n-Propylbenz	13.72	91	691975	0.0110	mg/kg	98
88)	2chlorotolue	13.84	91	407066	0.0108	mg/kg	97
89)	4chlorotolue	14.00	91	464955	0.0106	mg/kg	100
90)	135Trimebenz	13.98	105	461563	0.0104	mg/kg	99
91)	tbutylbenzen	14.45	119	440914	0.0114	mg/kg	99
92)	124Trimetben	14.52	105	432924	0.0094	mg/kg	95
93)	sbutylbenzen	14.77	105	653475	0.0114	mg/kg	99
94)	13Diclorbenz	14.92	146	305618	0.0105	mg/kg	97
95)	pIsopropylto	14.98	119	515306	0.0105	mg/kg	98
96)	14dichlorobe	15.05	146	312517	0.0105	mg/kg	99
97)	12dichlorobe	15.60	146	295136	0.0103	mg/kg	99
98)	nButylbenzen	15.58	91	507391	0.0112	mg/kg	99
99)	12dibromo3cl	16.70	157	27956	0.0108	mg/kg	98
100)	135Trichlorobenzene	17.00	180	217271	0.0103	mg/kg	97
101)	124Trichlobe	17.82	180	197830	0.0103	mg/kg	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840394MS.D Vial: 24
Acq On : 14 Mar 2017 20:53 Operator: RLD-AGK
Sample : 135664,MSS840394, Inst : VMS4
Misc : 4.93g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 21:14:25 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	127037	0.0114	mg/kg	97
103) Naphthalene	18.13	128	416338	0.0098	mg/kg	99
104) 123Trichlben	18.44	180	190877	0.0102	mg/kg	98

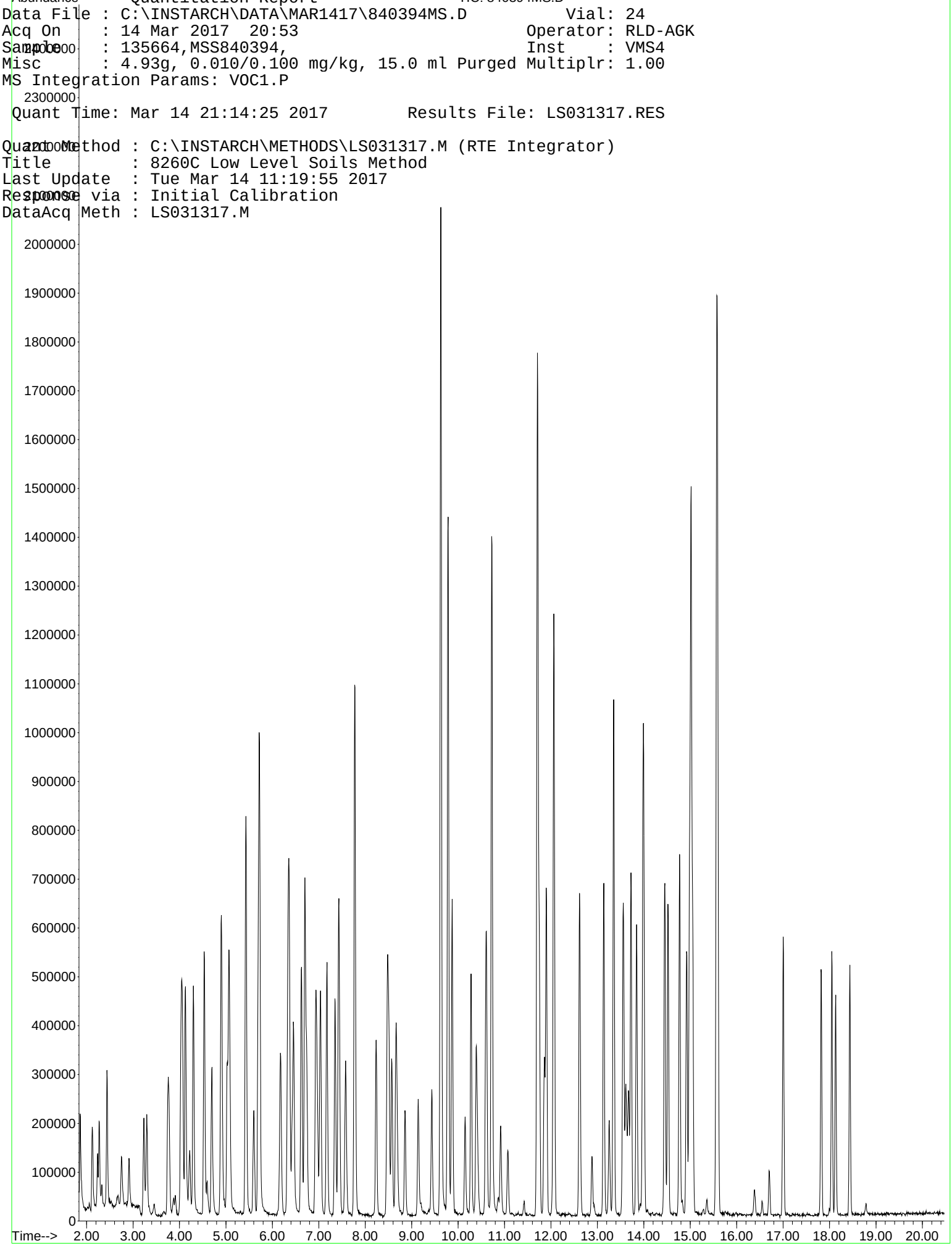
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840394MS.D

Data File : C:\INSTARCH\DATA\MAR1417\840394MS.D Vial: 24
Acq On : 14 Mar 2017 20:53 Operator: RLD-AGK
Sample : 135664,MSS840394, Inst : VMS4
Misc : 4.93g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 21:14:25 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840394SD.D Vial: 25
Acq On : 14 Mar 2017 21:22 Operator: RLD-AGK
Sample : 135664,MSDS840394, Inst : VMS4
Misc : 4.68g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 21:42:59 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.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**	7.77	96	1128247	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	886664	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	503899	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	285908	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	69670	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.79	98	1109323	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	403834	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	177638	0.0140	mg/kg	99
3) Chloromethan	2.13	50	228610	0.0128	mg/kg	97
4) VinylChlorid	2.27	62	197762	0.0133	mg/kg	99
5) Bromomethane	2.76	94	96617	0.0128	mg/kg	94
6) Chloroethane	2.92	64	96266	0.0122	mg/kg	99
7) dichloroflmethane	3.23	67	254378	0.0128	mg/kg	96
8) Trichlorofma	3.30	101	209631	0.0135	mg/kg	100
9) Ethylether	3.75	59	125197	0.0118	mg/kg	99
10) dichlorotfluoroethan	3.77	67	153480	0.0129	mg/kg	97
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	3.91	56	38400	0.0137	mg/kg#	77
13) 11dichlorthe	4.03	96	129067	0.0133	mg/kg	96
14) Trichlorotfluoroeth	4.06	101	273309	0.0278	mg/kg	98
15) Acetone	4.13	43	726748	0.1410	mg/kg	99
16) Iodomethane	4.22	142	201732	0.0233	mg/kg	99
17) Carbon Dislf	4.30	76	792210	0.0265	mg/kg	99
18) allylchloride	4.53	41	515609	0.0232	mg/kg	99
19) methylacetate	4.59	74	16697	0.0069	mg/kg	99
20) Methylchlorid	4.69	84	150752	0.0078	mg/kg	96
21) Acrylonitrile	5.03	53	295938	0.0584	mg/kg	99
22) t12dichlorte	5.06	96	132685	0.0127	mg/kg	99
23) tbutylalcohol	4.90	59	872740	0.7535	mg/kg	99
24) MtBE	5.08	73	353106	0.0125	mg/kg	99
25) Hexane	5.43	57	500985	0.0287	mg/kg	100
26) 11dichlorota	5.60	63	269691	0.0120	mg/kg	99
27) Vinylacetate	5.69	43	1231054	0.0526	mg/kg	99
28) chloroprene	5.72	53	454993	0.0222	mg/kg	99
29) Diisopether	5.72	45	610104	0.0118	mg/kg#	6
30) ETBE	6.18	59	393679	0.0125	mg/kg	99
31) 22dichloropr	6.33	77	167037	0.0124	mg/kg	99
32) c12dichlorte	6.34	96	160870	0.0120	mg/kg	100
33) 2Butanone	6.36	72	155439	0.1264	mg/kg	99
34) propionitrile	6.43	54	237413	0.1182	mg/kg	99
35) Ethylacetate	6.45	88	14327	0.0335	mg/kg#	85
36) methacrylonitrile	6.62	67	106986	0.0236	mg/kg	95
37) Bromochlorma	6.63	128	73257	0.0116	mg/kg	95
38) Tetrahydofur	6.70	42	584074	0.1219	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1417\840394SD.D Vial: 25
Acq On : 14 Mar 2017 21:22 Operator: RLD-AGK
Sample : 135664,MSDS840394, Inst : VMS4
Misc : 4.68g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 21:42:59 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	253170	0.0124 mg/kg	98
40)	111trichlota	6.97	97	205182	0.0129 mg/kg	97
42)	Cyclohexane	7.04	56	292051	0.0135 mg/kg	96
43)	Carbtetraclo	7.18	119	143325	0.0128 mg/kg	95
44)	11dicloprope	7.17	110	70664	0.0128 mg/kg	96
46)	Benzene	7.43	78	559179	0.0124 mg/kg	99
47)	12dichlorota	7.44	62	213518	0.0121 mg/kg	99
48)	TAME	7.58	73	292054	0.0130 mg/kg	98
49)	trichloroete	8.24	95	150895	0.0126 mg/kg	95
50)	methylcyclohexane	8.48	83	228727	0.0139 mg/kg	99
51)	12dicloropra	8.51	63	163748	0.0119 mg/kg	92
52)	23dicl1propene	8.57	75	206696	0.0120 mg/kg	96
53)	Dibromometha	8.66	93	93334	0.0119 mg/kg	97
54)	methylmethacrylate	8.67	69	85673	0.0119 mg/kg	97
55)	14dioxane	8.69	88	112142	0.8740 mg/kg	95
56)	Bromodiclrma	8.86	83	170144	0.0116 mg/kg	97
57)	2Nitropropane	9.14	43	225338	0.1030 mg/kg	98
58)	c13dicloproe	9.43	75	168193	0.0116 mg/kg	99
59)	4Meth2Pentan	9.63	43	2054811	0.1445 mg/kg	100
61)	Toluene	9.87	92	355663	0.0123 mg/kg	99
62)	t13Dicloprop	10.15	75	134567	0.0117 mg/kg	99
63)	ethylmethacrylate	10.28	69	305638	0.0237 mg/kg	100
64)	112Triclotha	10.39	83	107845	0.0122 mg/kg	98
65)	Tetrachlorte	10.60	166	167792	0.0131 mg/kg	99
66)	13Diclorpropa	10.61	76	208312	0.0120 mg/kg	97
68)	2Hexanone	10.72	43	1438389	0.1414 mg/kg	100
69)	Clorodibrmta	10.92	129	128408	0.0114 mg/kg	96
70)	12Dibrometha	11.07	107	129960	0.0124 mg/kg	98
71)	Chlorobenzen	11.75	112	399745	0.0122 mg/kg	98
72)	1Clhexane	11.71	91	183440	0.0128 mg/kg	98
73)	1112Tetclota	11.86	131	120173	0.0114 mg/kg	98
74)	Ethylbenzene	11.90	91	650670	0.0124 mg/kg	100
75)	m p-Xylene	12.06	106	499457	0.0245 mg/kg	98
76)	o-Xylene	12.62	106	234208	0.0117 mg/kg	99
77)	Styrene	12.63	104	100009	0.0029 mg/kg#	68
78)	Bromoform	12.88	173	85329	0.0113 mg/kg	99
79)	Isopropylben	13.14	105	623476	0.0125 mg/kg	99
81)	cyclohexanone	13.26	55	128768	0.3255 mg/kg	99
83)	Bromobenzene	13.56	156	184570	0.0115 mg/kg	97
84)	1122Tetrclta	13.55	83	173090	0.0122 mg/kg	97
85)	123Triclproa	13.61	75	194478	0.0139 mg/kg	89
86)	14dichloro2butene	13.63	53	32465	0.0120 mg/kg	91
87)	n-Propylbenz	13.72	91	772604	0.0122 mg/kg	99
88)	2chlorotolue	13.84	91	444843	0.0117 mg/kg	98
89)	4chlorotolue	14.00	91	518687	0.0118 mg/kg	99
90)	135Trimebenz	13.98	105	516814	0.0116 mg/kg	99
91)	tbutylbenzen	14.45	119	468748	0.0120 mg/kg	98
92)	124Trimetben	14.52	105	503930	0.0109 mg/kg	96
93)	sbutylbenzen	14.77	105	720311	0.0125 mg/kg	98
94)	13Diclorbenz	14.93	146	334631	0.0115 mg/kg	97
95)	pIsopropylto	14.99	119	588324	0.0119 mg/kg	99
96)	14dichlorobe	15.05	146	330101	0.0111 mg/kg	97
97)	12dichlorobe	15.60	146	319439	0.0111 mg/kg	99
98)	nButylbenzen	15.58	91	571327	0.0126 mg/kg	99
99)	12dibromo3cl	16.70	157	32257	0.0124 mg/kg	91
100)	135Trichlorobenzene	17.01	180	239981	0.0114 mg/kg	97
101)	124Trichlobe	17.82	180	215092	0.0111 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\MAR1417\840394SD.D Vial: 25
Acq On : 14 Mar 2017 21:22 Operator: RLD-AGK
Sample : 135664,MSDS840394, Inst : VMS4
Misc : 4.68g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 21:42:59 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	141607	0.0126	mg/kg	99
103) Naphthalene	18.13	128	464915	0.0109	mg/kg	99
104) 123Trichlben	18.44	180	212933	0.0113	mg/kg	99

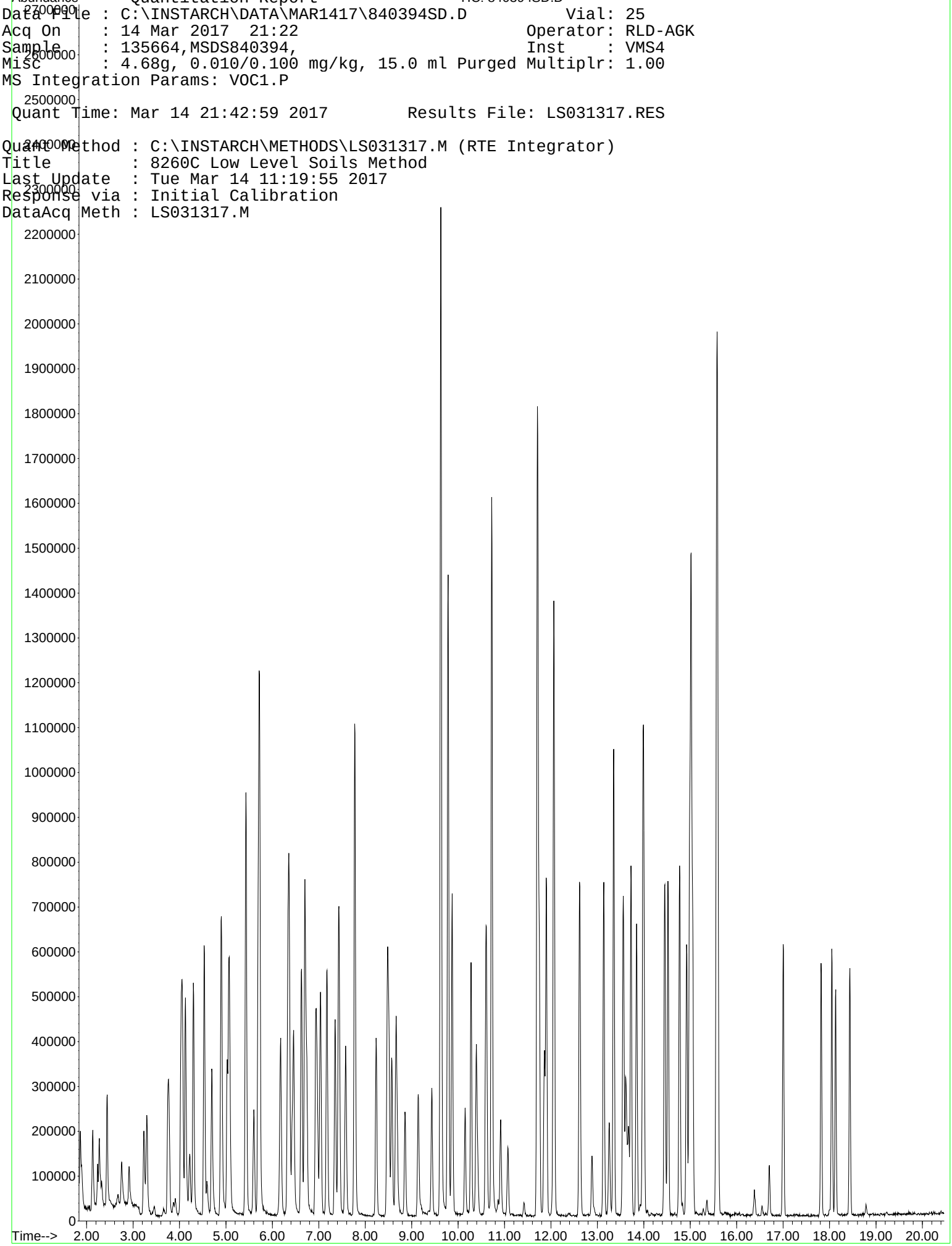
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 840394SD.D

Data File : C:\INSTARCH\DATA\MAR1417\840394SD.D Vial: 25
Acq On : 14 Mar 2017 21:22 Operator: RLD-AGK
Sample : 135664,MSDS840394, Inst : VMS4
Misc : 4.68g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Mar 14 21:42:59 2017 Results File: LS031317.RES

Quant Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Tue Mar 14 11:19:55 2017
Response via : Initial Calibration
DataAcq Meth : LS031317.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\CCV-LCS2.D Vial: 29
Acq On : 17 Mar 2017 8:31 Operator: RLD-AGK
Sample : 135661,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: Mar 17 08:52:14 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 09:26:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1336852	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1071771	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	608097	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	344440	4.096	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102	%		
45) SURR12DCAd4	7.35	102	72962	4.182	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 105	%		
61) SURRd8Tolule	9.79	98	1332193	4.023	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101	%		
83) SURR4BrFBenz	13.35	95	498282	4.032	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 101	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	385042	3.6281	ug/L	100
3) Chloromethan	2.15	50	512566	3.5122	ug/L	98
4) VinylChlorid	2.27	62	425159	3.6145	ug/L	98
5) Bromomethane	2.76	94	193931	3.6703	ug/L	97
6) Chloroethane	2.92	64	216158	3.4412	ug/L	99
7) Dichloroflmethane	3.23	67	545194	3.6339	ug/L	99
8) Trichlorofma	3.30	101	476352	3.7304	ug/L	97
9) Ethylether	3.75	59	229532	3.7209	ug/L	90
10) dichlorotfluoroethan	3.77	67	339756	3.7604	ug/L	96
11) propyleneoxide	3.82	58	344257	39.2811	ug/L	89
12) Acrolein	3.91	56	211039	18.9544	ug/L	93
13) 11dichlorthe	4.03	96	280247	3.7677	ug/L	89
14) Trichlorotfluoroeth	4.06	101	560608	7.4451	ug/L	99
15) Acetone	4.13	43	633446	38.4405	ug/L	97
16) Iodomethane	4.23	142	525655	7.0410	ug/L	95
17) Carbon Dislf	4.30	76	1355407	7.7317	ug/L	100
18) allylchloride	4.54	41	1120980	7.2515	ug/L	94
19) methylacetate	4.60	74	25879	3.9077	ug/L	93
20) Methylchlorid	4.70	84	345115	3.9805	ug/L #	81
21) tbutylalcohol	4.90	59	711646	178.5418	ug/L	95
22) Acrylonitrile	5.03	53	357985	18.5386	ug/L	98
23) t12dichlorte	5.07	96	286968	3.6657	ug/L #	86
24) MtBE	5.08	73	591052	3.6519	ug/L	95
25) Hexane	5.43	57	948326	7.4222	ug/L	97
26) 11dichlorota	5.61	63	618158	3.5921	ug/L	99
27) Vinylacetate	5.69	43	4956481	36.2715	ug/L	100
28) chloroprene	5.72	53	1174063	7.6443	ug/L	100
29) Diisopether	5.72	45	1319399	3.6395	ug/L	98
30) ETBE	6.18	59	872757	3.6924	ug/L	99
31) 22dichloropr	6.34	77	405750	3.9217	ug/L	99
32) c12dichlorte	6.34	96	339151	3.5108	ug/L	98
33) 2Butanone	6.37	72	176257	36.8986	ug/L	94
34) propionitrile	6.43	54	252918	37.5486	ug/L	99
35) Ethylacetate	6.46	88	31063	19.5808	ug/L #	89
36) methacrylonitrile	6.62	67	143034	7.8972	ug/L	98
37) Bromochlorma	6.63	128	146713	3.6308	ug/L	96
38) Tetrahydofur	6.70	42	688892	36.4571	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\CCV-LCS2.D Vial: 29
Acq On : 17 Mar 2017 8:31 Operator: RLD-AGK
Sample : 135661,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: Mar 17 08:52:14 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 09:26:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.74	83	549439	3.5131 ug/L		99
40)	111trichlota	6.97	97	477520	3.8117 ug/L		99
42)	Cyclohexane	7.04	56	620842	3.7604 ug/L		99
43)	Carbtetraclo	7.18	119	372121	4.3948 ug/L		98
44)	11dicloprope	7.18	110	154379	3.6839 ug/L		98
46)	Benzene	7.43	78	1266494	3.6546 ug/L		100
47)	12dichlorota	7.44	62	381974	3.5625 ug/L		99
48)	TAME	7.58	73	632089	3.6302 ug/L		99
49)	trichloroete	8.23	95	334648	3.7695 ug/L		99
50)	methylcyclohexane	8.48	83	505869	3.7974 ug/L		99
51)	12dicloropra	8.51	63	361373	3.5344 ug/L		92
52)	23Dicl1propene	8.58	75	459065	3.6659 ug/L		99
53)	Dibromometha	8.65	93	157032	3.7274 ug/L		98
54)	methylmethacrylate	8.67	69	122189	3.7498 ug/L		97
55)	14dioxane	8.69	88	53833	178.2442 ug/L	#	37
56)	Bromodiclrma	8.86	83	383682	3.9250 ug/L		97
57)	2Nitropropane	9.14	43	439139	39.9748 ug/L		98
58)	2CLEVE	9.24	63	494816	24.6345 ug/L		99
59)	c13dicloproe	9.43	75	388670	3.6481 ug/L		100
60)	4Meth2Pentan	9.63	43	2303390	38.2242 ug/L		100
62)	Toluene	9.87	92	775597	3.6032 ug/L		100
63)	t13Dicloprop	10.15	75	273935	3.6970 ug/L		99
64)	ethylmethacrylate	10.28	69	510041	7.7429 ug/L		97
65)	112Triclotha	10.39	83	181341	3.6120 ug/L		98
66)	Tetrachlorte	10.60	166	384375	3.7634 ug/L		99
67)	13Diclorpropa	10.61	76	359154	3.6194 ug/L		99
69)	2Hexanone	10.72	43	1592179	38.3371 ug/L		98
70)	Clorodibrmta	10.92	129	252062	3.8502 ug/L		97
71)	12Dibrometha	11.08	107	201346	3.7620 ug/L		98
72)	Chlorobenzen	11.75	112	871952	3.5775 ug/L		98
73)	1Clhexane	11.71	91	411773	3.6176 ug/L		98
74)	1112Tetclota	11.86	131	288228	3.7707 ug/L		99
75)	Ethylbenzene	11.90	91	1477801	3.6827 ug/L		100
76)	m p-Xylene	12.06	106	1156518	7.3533 ug/L		100
77)	o-Xylene	12.62	106	562776	3.6761 ug/L		100
78)	Styrene	12.63	104	929513	3.7506 ug/L		99
79)	Bromoform	12.88	173	142834	4.0130 ug/L		98
80)	Isopropylben	13.14	105	1425585	3.7118 ug/L		100
81)	cyclohexanone	13.25	55	97783	75.3214 ug/L		96
84)	Bromobenzene	13.56	156	380754	3.5852 ug/L		98
85)	1122Tetrclta	13.55	83	239155	3.7127 ug/L		99
86)	123Triclproa	13.61	75	206925	3.3270 ug/L		97
87)	14dichloro2butene	13.64	53	44029	3.3430 ug/L		95
88)	n-Propylbenz	13.72	91	1745863	3.7217 ug/L		100
89)	2chlorotolue	13.84	91	1003381	3.6246 ug/L		98
90)	4chlorotolue	14.00	91	1152809	3.6620 ug/L		99
91)	135Trimebenz	13.98	105	1223352	3.7384 ug/L		99
92)	tbutylbenzen	14.45	119	1082868	3.7282 ug/L		99
93)	124Trimetben	14.52	105	1245806	3.7591 ug/L		100
94)	sbutylbenzen	14.77	105	1609970	3.8109 ug/L		100
95)	13Diclorbenz	14.93	146	717426	3.5847 ug/L		100
96)	pIsopropylto	14.99	119	1363631	3.7714 ug/L		99
97)	14dichlorobe	15.05	146	707783	3.5624 ug/L		99
98)	12dichlorobe	15.60	146	661078	3.6078 ug/L		97
99)	nButylbenzen	15.58	91	1181511	3.7080 ug/L		99
100)	12dibromo3cl	16.70	157	38568	3.6769 ug/L		98
101)	135Trichlorobenzene	17.01	180	498308	3.6252 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\CCV-LCS2.D Vial: 29
Acq On : 17 Mar 2017 8:31 Operator: RLD-AGK
Sample : 135661,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: Mar 17 08:52:14 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 09:26:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	402096	3.6185	ug/L	98
103) Hexachlorobu	18.05	225	234078	3.6925	ug/L	100
104) Naphthalene	18.13	128	645846	3.6308	ug/L	99
105) 123Trichlben	18.44	180	348862	3.6640	ug/L	99

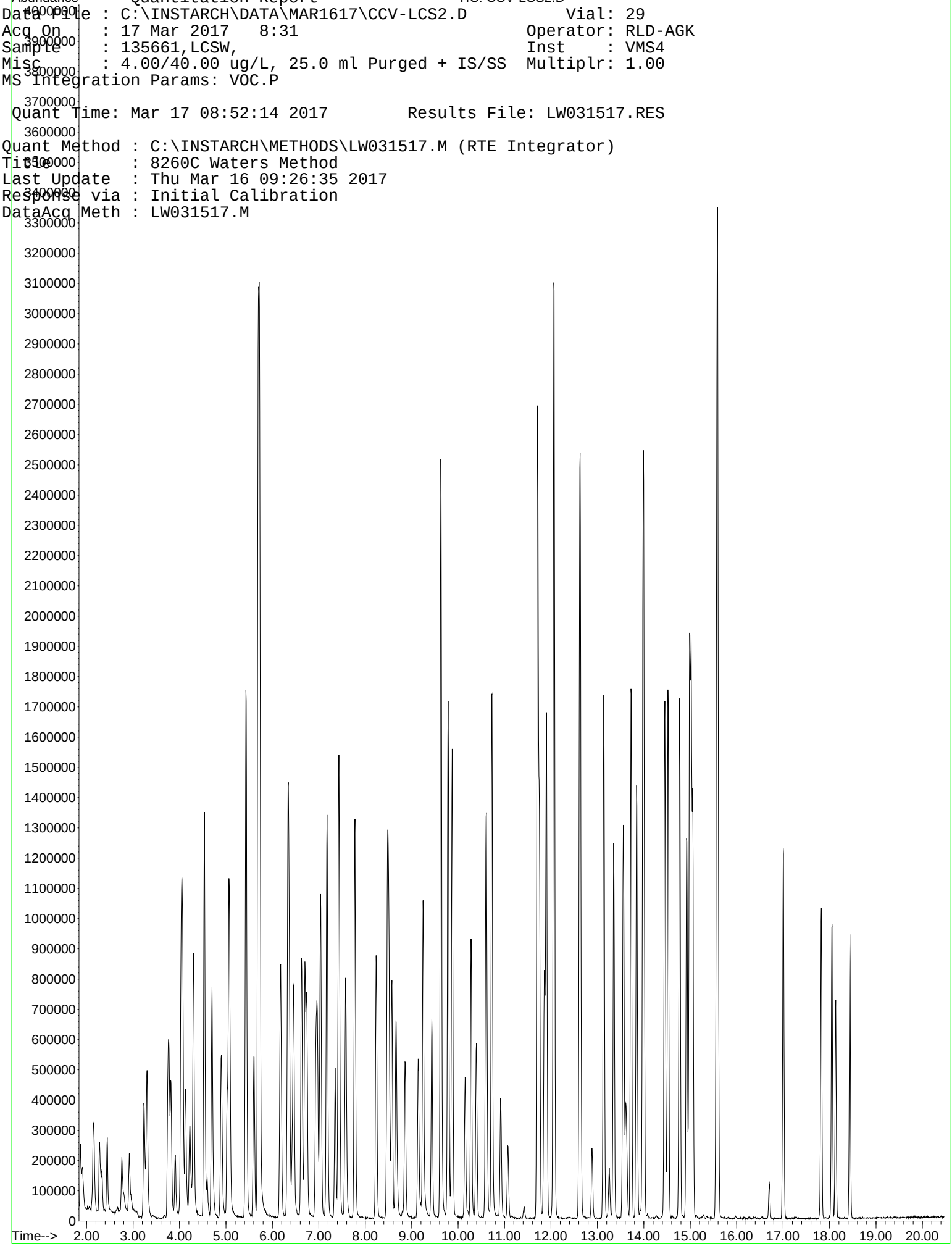
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: CCV-LCS2.D)

Data File : C:\INSTARCH\DATA\MAR1617\CCV-LCS2.D Vial: 29
Acq On : 17 Mar 2017 8:31 Operator: RLD-AGK
Sample : 135661,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: Mar 17 08:52:14 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Mar 16 09:26:35 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\MB2-CCB1.D Vial: 31
Acq On : 17 Mar 2017 9:28 Operator: RLD-AGK
Sample : 135661,MBW, Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 09:48:41 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.77	96	1244981	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1009316	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	537633	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	302723	3.865	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 97 %			
45) SURR12DCAd4	7.35	102	66178	4.073	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 102 %			
61) SURRd8Tolule	9.79	98	1234565	4.003	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100 %			
83) SURR4BrFBenz	13.35	95	443546	4.059	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.16	50	5190	0.0382	ug/L	99
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	704	N.D.		
6) Chloroethane	2.91	64	949	N.D.		
7) Dichloroflmethane	3.22	67	708	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	4.14	43	27763	Below	Cal	93
16) Iodomethane	4.22	142	1090	0.3522	ug/L #	40
17) Carbon Dislf	4.31	76	3751	N.D.		
18) allylchloride	4.52	41	1241	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	9340	Below	Cal #	85
21) tbutylalcohol	4.91	59	1191	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	6.72	42	4858	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\MB2-CCB1.D Vial: 31
Acq On : 17 Mar 2017 9:28 Operator: RLD-AGK
Sample : 135661,MBW, Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 09:48:41 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	535	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	7.43	78	2099	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)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.64	43	1248	N.D.	
62)	Toluene	9.88	92	702	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.74	43	599	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.71	91	1930	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	12.07	106	1105	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.25	55	664	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	13.72	91	603	N.D.	
89)	2chlorotolue	13.72	91	603	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	14.53	105	564	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	14.98	119	1050	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	15.60	146	532	N.D.	
99)	nButylbenzen	15.57	91	2017	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	17.01	180	538	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\MB2-CCB1.D Vial: 31
Acq On : 17 Mar 2017 9:28 Operator: RLD-AGK
Sample : 135661,MBW, Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 09:48:41 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	982	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.14	128	2490	N.D.	
105) 123Trichlben	18.43	180	590	N.D.	

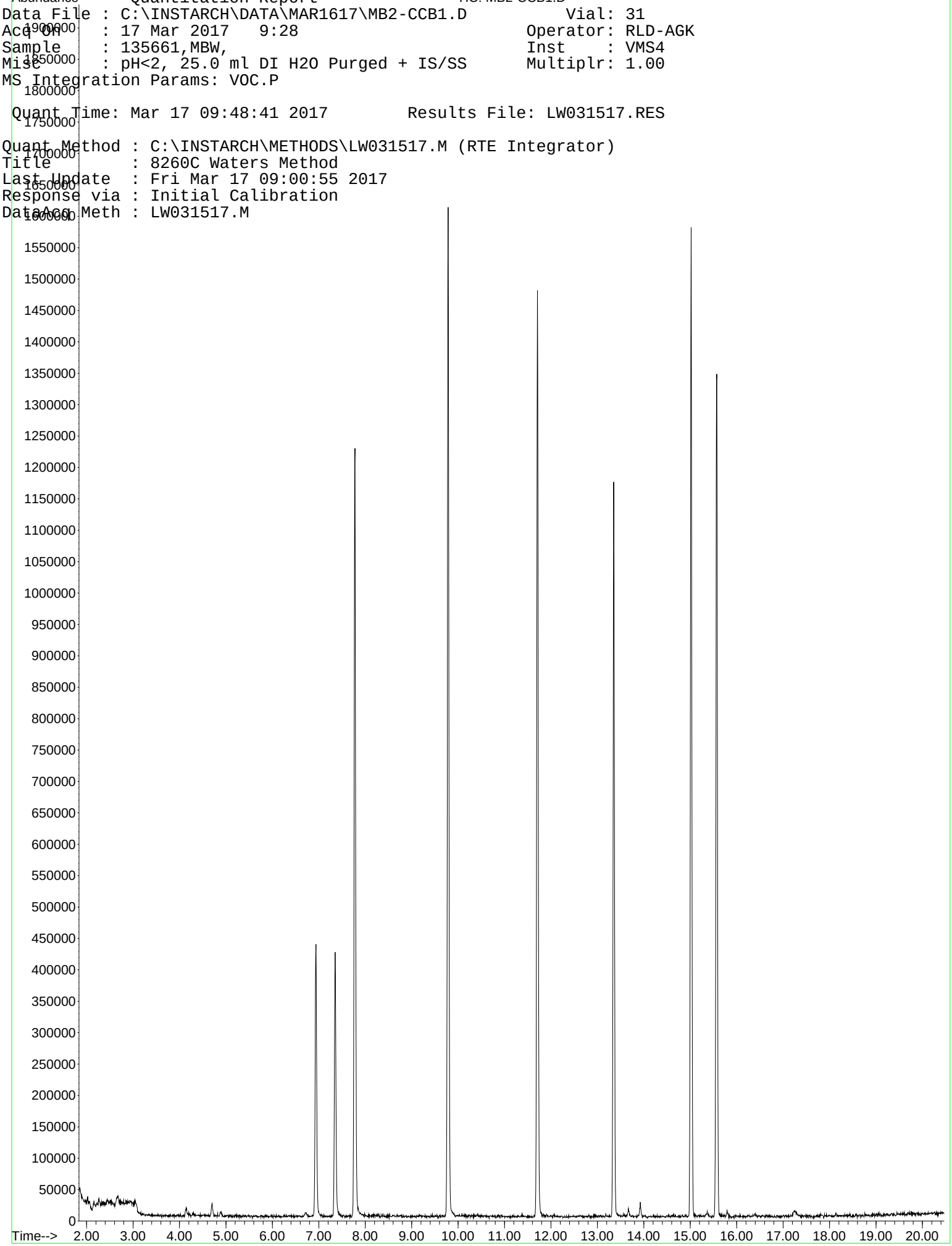
(#) = qualifier out of range (m) = manual integration

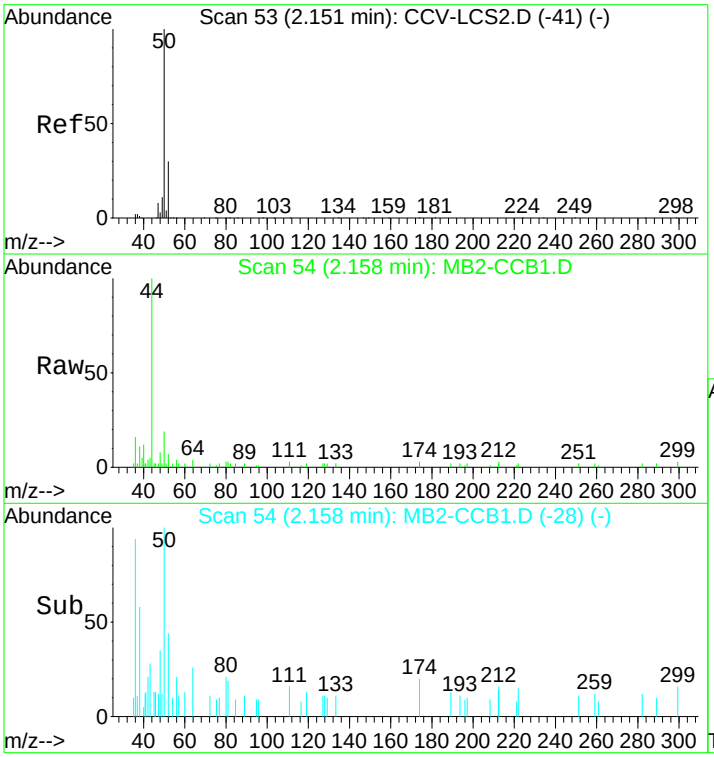
Abundance Quantitation Report TIC: MB2-CCB1.D

Data File : C:\INSTARCH\DATA\MAR1617\MB2-CCB1.D Vial: 31
Acq On : 17 Mar 2017 9:28 Operator: RLD-AGK
Sample : 135661,MBW, Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Mar 17 09:48:41 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

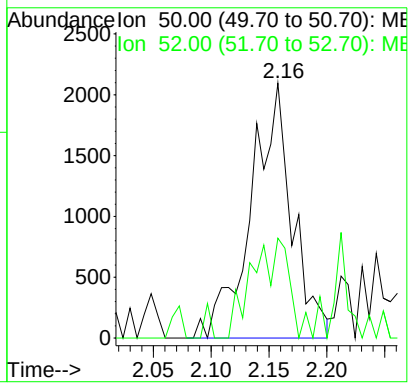


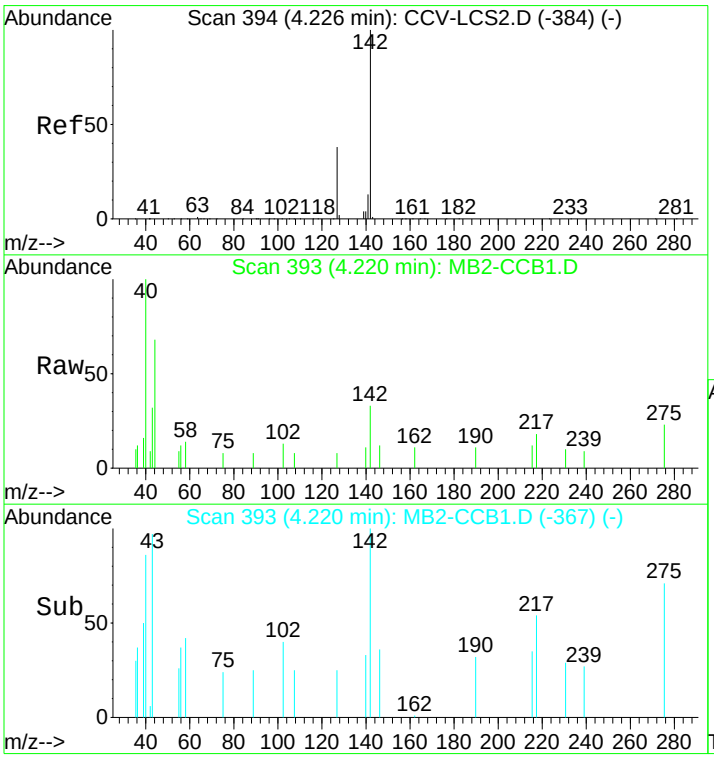


#3
Chloromethan
Concen: 0.04 ug/L
RT: 2.16 min Scan# 54
Delta R.T. 0.01 min
Lab File: MB2-CCB1.D
Acq: 17 Mar 2017 9:28

Tgt Ion: 50 Resp: 5190

Ion	Ratio	Lower	Upper
50	100		
52	34.1	13.4	53.4

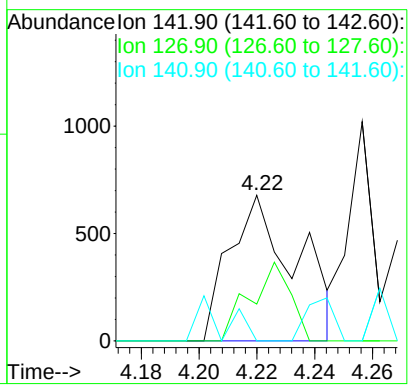




#16
Iodomethane
Concen: 0.35 ug/L
RT: 4.22 min Scan# 393
Delta R.T. 0.01 min
Lab File: MB2-CCB1.D
Acq: 17 Mar 2017 9:28

Tgt Ion:142 Resp: 1090

Ion	Ratio	Lower	Upper
142	100		
127	0.0	24.7	64.7#
141	0.0	0.0	33.9



Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\LCSD1-CCVF2.D Vial: 41
Acq On : 17 Mar 2017 14:15 Operator: RLD-AGK
Sample : 135661,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: Mar 17 14:35:49 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.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**	7.78	96	1268227	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1020897	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	579736	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	324414	4.066	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102	%		
45) SURR12DCAd4	7.35	102	65465	3.956	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 99	%		
61) SURRd8Tolule	9.79	98	1265948	4.030	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101	%		
83) SURR4BrFBenz	13.35	95	468517	3.977	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 99	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	384540	3.8194	ug/L	99
3) Chloromethan	2.15	50	498818	3.6029	ug/L	96
4) VinylChlorid	2.28	62	417025	3.7372	ug/L	97
5) Bromomethane	2.76	94	161490	3.2217	ug/L	100
6) Chloroethane	2.92	64	207158	3.4764	ug/L	98
7) Dichloroflmethane	3.24	67	538839	3.7859	ug/L	92
8) Trichlorofma	3.30	101	486607	4.0169	ug/L	100
9) Ethylether	3.75	59	234823	4.0126	ug/L	90
10) dichlorotfluoroethan	3.77	67	334129	3.8982	ug/L	96
11) propyleneoxide	3.82	58	335647	40.3710	ug/L	92
12) Acrolein	3.91	56	196060	18.5619	ug/L	96
13) 11dichlorthe	4.03	96	271713	3.8507	ug/L	91
14) Trichlorotfluoroeth	4.06	101	557875	7.8097	ug/L	99
15) Acetone	4.13	43	638101	41.0755	ug/L	96
16) Iodomethane	4.23	142	386715	5.5823	ug/L	95
17) Carbon Dislf	4.31	76	1310927	7.8826	ug/L	100
18) allylchloride	4.54	41	1098199	7.4886	ug/L	96
19) methylacetate	4.60	74	26741	4.2564	ug/L	99
20) Methylchlorid	4.70	84	333686	4.0655	ug/L #	83
21) tbutylalcohol	4.90	59	716577	189.5070	ug/L	90
22) Acrylonitrile	5.03	53	356716	19.4725	ug/L	99
23) t12dichlorte	5.06	96	279251	3.7602	ug/L #	88
24) MtBE	5.08	73	601294	3.9163	ug/L	95
25) Hexane	5.44	57	869862	7.1765	ug/L	97
26) 11dichlorota	5.60	63	604254	3.7014	ug/L	99
27) Vinylacetate	5.69	43	4935706	38.2470	ug/L	100
28) chloroprene	5.72	53	1163410	7.9848	ug/L	100
29) Diisopether	5.72	45	1355830	3.9424	ug/L	99
30) ETBE	6.17	59	873316	3.8947	ug/L	99
31) 22dichloropr	6.34	77	351923	3.5855	ug/L	99
32) c12dichlorte	6.34	96	340105	3.7112	ug/L	97
33) 2Butanone	6.37	72	182349	40.2395	ug/L	94
34) propionitrile	6.43	54	252050	39.4446	ug/L	98
35) Ethylacetate	6.46	88	29312	19.4769	ug/L	95
36) methacrylonitrile	6.62	67	134020	7.7999	ug/L	96
37) Bromochlorma	6.64	128	145206	3.7879	ug/L	97
38) Tetrahydofur	6.70	42	675659	37.6916	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\LCSD1-CCVF2.D Vial: 41
Acq On : 17 Mar 2017 14:15 Operator: RLD-AGK
Sample : 135661,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: Mar 17 14:35:49 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.74	83	540935	3.6459	ug/L	99
40)	111trichlota	6.97	97	464174	3.9056	ug/L	98
42)	Cyclohexane	7.04	56	628921	4.0155	ug/L	100
43)	Carbtetraclo	7.18	119	363585	4.5264	ug/L	98
44)	11dicloprope	7.18	110	153752	3.8674	ug/L	99
46)	Benzene	7.43	78	1244080	3.7842	ug/L	99
47)	12dichlorota	7.44	62	379442	3.7304	ug/L	99
48)	TAME	7.58	73	635733	3.8487	ug/L	98
49)	trichloroete	8.24	95	321051	3.8120	ug/L	97
50)	methylcyclohexane	8.48	83	498993	3.9484	ug/L	100
51)	12dicloropra	8.51	63	362964	3.7421	ug/L	98
52)	23Dicl1propene	8.58	75	450816	3.7949	ug/L	99
53)	Dibromometha	8.66	93	149874	3.7500	ug/L	99
54)	methylmethacrylate	8.67	69	120745	3.9060	ug/L	97
55)	14dioxane	8.69	88	60480	211.0887	ug/L #	37
56)	Bromodiclrma	8.86	83	369060	3.9797	ug/L	98
57)	2Nitropropane	9.14	43	406574	39.0130	ug/L	98
58)	2CLEVE	9.24	63	514011	26.9749	ug/L	97
59)	c13dicloproe	9.43	75	367552	3.6366	ug/L	99
60)	4Meth2Pentan	9.63	43	2314832	40.4927	ug/L	99
62)	Toluene	9.87	92	764705	3.7449	ug/L	100
63)	t13Dicloprop	10.15	75	255501	3.6348	ug/L	98
64)	ethylmethacrylate	10.28	69	496232	7.9409	ug/L	100
65)	112Triclotha	10.39	83	187363	3.9339	ug/L	95
66)	Tetrachlorte	10.60	166	369592	3.8144	ug/L	99
67)	13Diclorpropa	10.61	76	359759	3.8216	ug/L	98
69)	2Hexanone	10.72	43	1593087	40.2705	ug/L	100
70)	Clorodibrmta	10.92	129	234625	3.7625	ug/L	96
71)	12Dibrometha	11.07	107	194476	3.8147	ug/L	100
72)	Chlorobenzen	11.75	112	850069	3.6615	ug/L	99
73)	1Clhexane	11.72	91	403391	3.7205	ug/L	97
74)	1112Tetclota	11.85	131	277934	3.8172	ug/L	99
75)	Ethylbenzene	11.90	91	1464855	3.8323	ug/L	100
76)	m p-Xylene	12.07	106	1129281	7.5379	ug/L	100
77)	o-Xylene	12.62	106	557581	3.8237	ug/L	100
78)	Styrene	12.63	104	918371	3.8904	ug/L	100
79)	Bromoform	12.89	173	128785	3.7986	ug/L	99
80)	Isopropylben	13.14	105	1398598	3.8230	ug/L	99
81)	cyclohexanone	13.26	55	105124	85.0113	ug/L	96
84)	Bromobenzene	13.56	156	376262	3.7162	ug/L	98
85)	1122Tetrclta	13.55	83	241104	3.9261	ug/L	95
86)	123Triclproa	13.62	75	244360	4.1210	ug/L	94
87)	14dichloro2butene	13.64	53	33804	2.6922	ug/L	100
88)	n-Propylbenz	13.72	91	1701204	3.8039	ug/L	100
89)	2chlorotolue	13.85	91	985606	3.7346	ug/L	98
90)	4chlorotolue	14.00	91	1123753	3.7444	ug/L	99
91)	135Trimebenz	13.98	105	1198757	3.8425	ug/L	97
92)	tbutylbenzen	14.45	119	1077940	3.8928	ug/L	99
93)	124Trimetben	14.53	105	1224935	3.8770	ug/L	99
94)	sbutylbenzen	14.77	105	1580300	3.9237	ug/L	98
95)	13Diclorbenz	14.92	146	706498	3.7028	ug/L	99
96)	pIsopropylto	14.99	119	1314150	3.8124	ug/L	98
97)	14dichlorobe	15.05	146	705233	3.7232	ug/L	98
98)	12dichlorobe	15.60	146	655141	3.7504	ug/L	97
99)	nButylbenzen	15.58	91	1122297	3.6945	ug/L	99
100)	12dibromo3cl	16.70	157	35179	3.5179	ug/L	94
101)	135Trichlorobenzene	17.01	180	485846	3.7075	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\MAR1617\LCSD1-CCVF2.D Vial: 41
Acq On : 17 Mar 2017 14:15 Operator: RLD-AGK
Sample : 135661,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: Mar 17 14:35:49 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	389180	3.6736	ug/L	98
103) Hexachlorobu	18.05	225	222840	3.6872	ug/L	98
104) Naphthalene	18.13	128	630346	3.7171	ug/L	100
105) 123Trichlben	18.44	180	338296	3.7268	ug/L	98

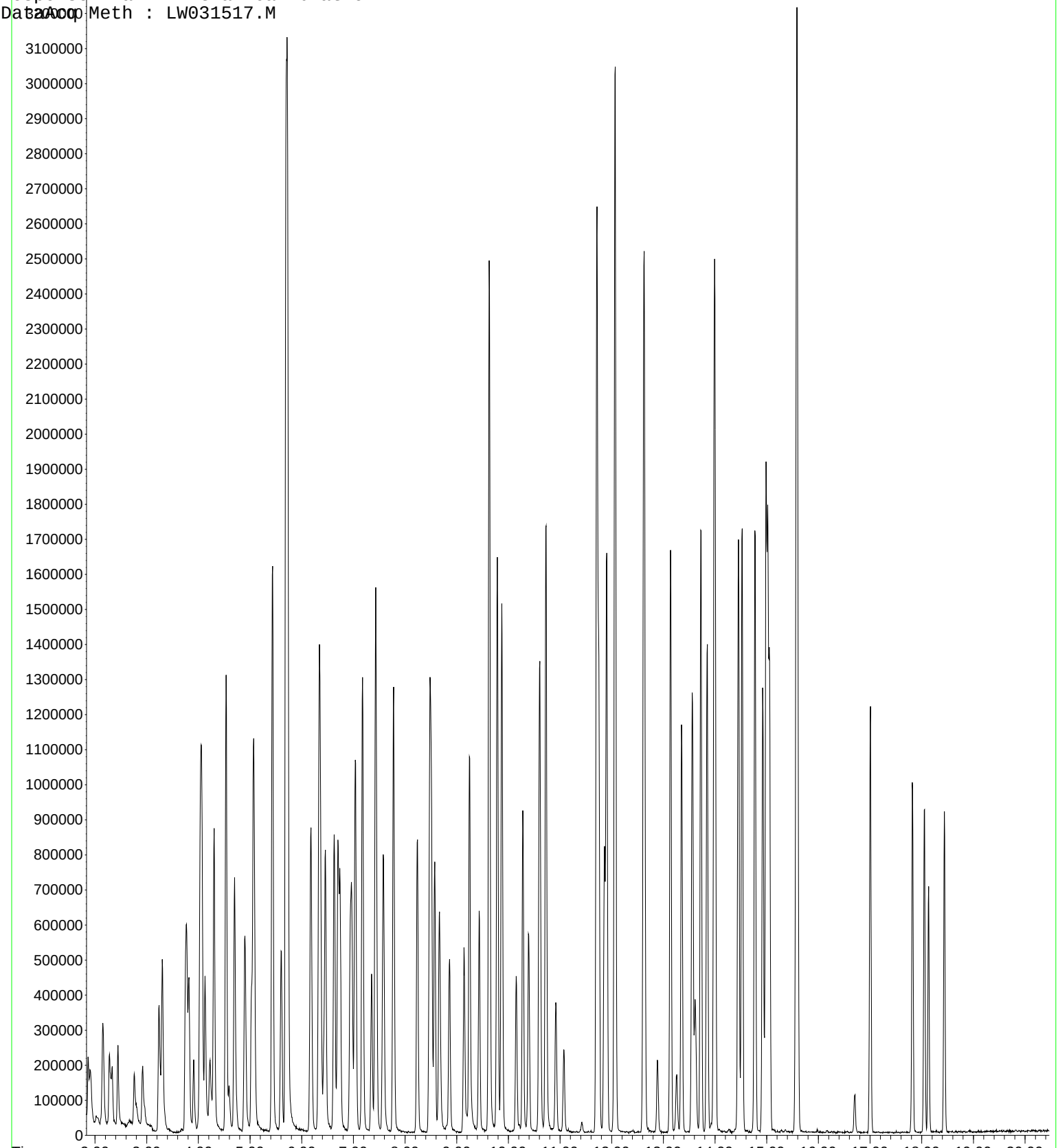
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCSD1-CCVF2.D

Data File : C:\INSTARCH\DATA\MAR1617\LCSD1-CCVF2.D Vial: 41
Acq On : 17 Mar 2017 14:15 Operator: RLD-AGK
Sample : 135661,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: Mar 17 14:35:49 2017 Results File: LW031517.RES

Quant Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Mar 17 09:00:55 2017
Response via : Initial Calibration
DataAcq Meth : LW031517.M



VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS

V 8260 QSM LL SOIL 5.0 Analytical Run
135664 on 3/21/2017

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
	841340						V 8260 QSM LL SOIL 5.0				
				BFB				0			
	841341						V 8260 QSM LL SOIL 5.0				
				CCV				0			
	840890						VOC 8260 QSM LL 5.0				
				LCSS				61516			
	840889						VOC 8260 QSM LL 5.0				
				MBS				61516			
125865	840394	DF-SB47-18-1703	3/8/2017 1410	Designated MS/MSD	TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840395	DF-SB38-15-1703	3/8/2017 1440		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840396	DF-SB44-11-1703	3/8/2017 1505		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840397	DF-SB37-11-1703	3/8/2017 1525		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840399	DF-SB22-19-1703	3/9/2017 0745		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840400	DF-SB23-16-1703	3/9/2017 0810		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840401	DF-SB24-17-1703	3/9/2017 0850		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840402	DF-SB25-5-1703	3/9/2017 0905		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840403	DF-SB26-10-1703	3/9/2017 0940		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840404	DF-SB14-19-1703	3/9/2017 1005		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840405	DF-SB01-12-1703	3/9/2017 1200		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840406	DF-SB08-17-1703	3/9/2017 1225		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840407	DF-SB10-9-1703	3/9/2017 1255		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840408	DF-FD-01	3/9/2017		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	
125865	840409	DF-SB11-10-1703	3/9/2017 1310		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0	61516	S	**4**	

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

V 8260 QSM LL SOIL 5.0 Analytical Run
135664 on 3/21/2017

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
125865	840410		3/9/2017 1325		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB04-10-1703									
125865	840413		3/9/2017 1350		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB05-18-1703						61516			
	840891		3/8/2017 1410				VOC 8260 QSM LL 5.0				
		DF-SB47-18-1703		MSS	840394			61516			
	840892		3/8/2017 1410				VOC 8260 QSM LL 5.0				
		DF-SB47-18-1703		MSDS	840891			61516			
	841811						V 8260 QSM LL SOIL 5.0				
				CCVF				0			

24 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

PREP WORKSHEET
on 03/22/2017

Prep Batch **61,516** Date Prepped: 03/14/2017 Prepped By RLD

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	840889	MBS		VOC 8260 QSM LL 5.0	SOLID	5.0	5.00			
	840890	LCSS		VOC 8260 QSM LL 5.0	SOLID	5.0	5.00			
125865	840394	*		VOC 8260 QSM LL 5.0	SOIL	5.0	5.65		4	
	840395			VOC 8260 QSM LL 5.0	SOIL	5.0	6.22		4	
	840396			VOC 8260 QSM LL 5.0	SOIL	5.0	6.47		4	
	840397			VOC 8260 QSM LL 5.0	SOIL	5.0	6.72		4	
	840399			VOC 8260 QSM LL 5.0	SOIL	5.0	5.79		4	
	840400			VOC 8260 QSM LL 5.0	SOIL	5.0	6.17		4	
	840401			VOC 8260 QSM LL 5.0	SOIL	5.0	6.59		4	
	840402			VOC 8260 QSM LL 5.0	SOIL	5.0	5.99		4	
	840403			VOC 8260 QSM LL 5.0	SOIL	5.0	5.86		4	
	840404			VOC 8260 QSM LL 5.0	SOIL	5.0	5.08		4	
	840405			VOC 8260 QSM LL 5.0	SOIL	5.0	8.11		4	
	840406			VOC 8260 QSM LL 5.0	SOIL	5.0	6.82		4	
	840407			VOC 8260 QSM LL 5.0	SOIL	5.0	5.79		4	
	840408			VOC 8260 QSM LL 5.0	SOIL	5.0	6.61		4	
	840409			VOC 8260 QSM LL 5.0	SOIL	5.0	5.91		4	

PREP WORKSHEET
on 03/22/2017

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
125865	840410			VOC 8260 QSM LL 5.0	SOIL	5.0	6.77		4	
	840413			VOC 8260 QSM LL 5.0	SOIL	5.0	6.99		4	
	840891	MSS	840394	VOC 8260 QSM LL 5.0	SOIL	5.0	4.93			
	840892	MSDS	840891	VOC 8260 QSM LL 5.0	SOIL	5.0	4.68			

Notes:_____

FVO3,4-08

VOC SOILS LOW LEVEL - PREP BENCHSHEET

Prep Batch #:	61516
Method:	8260C
Analyst:	RLD
Date:	3/14/2017
Start Time:	9:25

NON-LUST
Balance# VOB01

	Sample ID	Sample Weight B (g)	Sample Weight C (g)	Sample Weight A (g)		Sodium Bisulfate Solution (mL)
1	840394	4.31		5.65		5.0
2	840395	7.56		6.22		5.0
3	840396	6.88		6.47		5.0
4	840397	6.67		6.72		5.0
5	840399	6.84		5.79		5.0
6	840400	6.33		6.17		5.0
7	840401	6.38		6.59		5.0
8	840402	5.89		5.99		5.0
9	840403	5.06		5.86		5.0
10	840404	5.62		5.08		5.0
11	840405	7.98		8.11		5.0
12	840406	7.05		6.82		5.0
13	840407	6.29		5.79		5.0
14	840408	7.34		6.61		5.0
15	840409	5.85		5.91		5.0
16	840410	6.04		6.77		5.0
17	840413	6.77		6.99		5.0
18						
19	MSS840394	4.76		4.93		5.0
20	MSDS840394	5.64		4.68		5.0

Stop Time:	9:35

Sodium Bisulfate Solution (0.5g NaHSO4 / 5.0mL of DI H2O):	VOC0226/229
Sample Wt = Total Wt - Jar Wt - 0.25 (Label Wt.)	

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR1417\BFB1.D
Injection Date : 14 Mar 2017 Log Time Period (hrs) : ALL
Injection Time : 10:09 Total files within period : 25
Sample Directory : C:\INSTARCH\DATA\MAR1417\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
CCV1	1.00	1.00	1.00	135664,CCV, 0.010/0.100 mg/kg, 15.0 m	14 Mar 2017	10:52
LCS1	1.00	1.00	1.00	135664,LCSS, 5.00g, 0.010/0.100 mg/kg,	14 Mar 2017	11:21
MB1	1.00	1.00	1.00	135664,MBS, 5.00g, 15.0 ml Purged + I	14 Mar 2017	12:18
840394	1.00	1.00	1.00	135664,840394, 5.65g, 15.0 ml Purged + I	14 Mar 2017	12:47
840395	1.00	1.00	1.00	135664,840395, 6.22g, 15.0 ml Purged + I	14 Mar 2017	13:15
840396	1.00	1.00	1.00	135664,840396, 6.47g, 15.0 ml Purged + I	14 Mar 2017	13:43
840397	1.00	1.00	1.00	135664,840397, 6.72g, 15.0 ml Purged + I	14 Mar 2017	14:12
840399	1.00	1.00	1.00	135664,840399, 5.79g, 15.0 ml Purged + I	14 Mar 2017	14:41
840400	1.00	1.00	1.00	135664,840400, 6.17g, 15.0 ml Purged + I	14 Mar 2017	15:09
840401	1.00	1.00	1.00	135664,840401, 6.59g, 15.0 ml Purged + I	14 Mar 2017	15:38
840402	1.00	1.00	1.00	135664,840402, 5.99g, 15.0 ml Purged + I	14 Mar 2017	16:06
840403	1.00	1.00	1.00	135664,840403, 5.86g, 15.0 ml Purged + I	14 Mar 2017	16:35
840404	1.00	1.00	1.00	135664,840404, 5.08g, 15.0 ml Purged + I	14 Mar 2017	17:04
840405	1.00	1.00	1.00	135664,840405, 8.11g, 15.0 ml Purged + I	14 Mar 2017	17:33
840406	1.00	1.00	1.00	135664,840406, 6.82g, 15.0 ml Purged + I	14 Mar 2017	18:01
840407	1.00	1.00	1.00	135664,840407, 5.79g, 15.0 ml Purged + I	14 Mar 2017	18:30
840408	1.00	1.00	1.00	135664,840408, 6.61g, 15.0 ml Purged + I	14 Mar 2017	18:59
840409	1.00	1.00	1.00	135664,840409, 5.91g, 15.0 ml Purged + I	14 Mar 2017	19:27
840410	1.00	1.00	1.00	135664,840410, 6.77g, 15.0 ml Purged + I	14 Mar 2017	19:56
840413	1.00	1.00	1.00	135664,840413, 6.99g, 15.0 ml Purged + I	14 Mar 2017	20:25

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS031317.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR1417\BFB1.D
Injection Date : 14 Mar 2017 Log Time Period (hrs) : ALL
Injection Time : 10:09 Total files within period : 25
Sample Directory : C:\INSTARCH\DATA\MAR1417\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
840394MS	1.00	1.00	1.00	135664,MSS840394, 4.93g, 0.010/0.100 mg/kg,	14 Mar 2017	20:53
840394SD	1.00	1.00	1.00	135664,MSDS840394, 4.68g, 0.010/0.100 mg/kg,	14 Mar 2017	21:22
CCVF1	1.00	1.00	1.00	135664,CCVF, 0.010/0.100 mg/kg, 15.0 m	14 Mar 2017	21:51

8260 ISTD/SSTD 20ug/ml VOC0288
8260 BFB STD. 50ug/ml VOC0287
8260 ICV STD. 100ug/ml VOC0289
8260 CCV/CALIB. 100ug/ml VOC0290

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? Yes	Approved? No	Instrument
03/14/2017	135664	AGK	RLD	03/23/2017	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 Yes	Analyst Review No	Independent Review Yes	Independent Review No	Comments:
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		If no, Do not proceed with analyses.
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		If no, recalibrate with required # of levels
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, recalibrate.
Was a second-source ICV analyzed?	Required before sample analyses.	Yes		Yes		If no, analyze prior to sample analyses.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific		No		No	If no, reanalyzed ICV to address failures
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		If no, analyzed ICB before sample analyses.
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits		No		No	If no, analyze another blank to address detects.
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		If no, reanalyze BFB until acceptable; re-tuning the instrument may be necessary.
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		If no, analyzed CCV after acceptable tune check.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalysis or recalibration may be required.
If necessary, were the results for outlying compounds qualified?						If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MB with each sample batch.
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 no, reanalyze MB an all affected data if possible or see SOP for more detailed criteria
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.?						If yes, affected results qualified "B"
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		If no, analyze a LCS with each sample batch.
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 no, Reanalyze LCS and all affected data if possible or data requires qualification.
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?						If yes, affected results qualified "Q"
Is the relative percent difference (RPD) for each analyte between the LCS and LSCD (if applicable) acceptable?	generated limits, or client specific limits.					If no, affected results qualified "Y"
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		If no, analyze a MS/MSD pair with each sample batch.
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	If no, qualify detects (with an "M" flag) in the parent sample, also qualify non-detects if MS/MSD recoveries were low.
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	generated limits, or client specific limits.		No		No	If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If no, instrument maintenance may be required to correct problems.
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 no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed. Low surrogate recoveries require reanalysis.
If possible, were the affected samples reanalyzed?						If no, see below **
**Were reported sample results with failing surrogate recoveries qualified?						If yes, affected results qualified "S"
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		If no, see below: If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		If no, include sequence run with raw data.
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		If no, recapture the data and verify data prior to validation.
Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		IF No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
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		If No, include proper qualification(s) in LIMS and enter nonconformities into the NCR spreadsheet before data review/validation.

Non-applicable Yes/No cells are left blank

Comments:

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS031317.M
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR1317\BFB1.D
Injection Date : 13 Mar 2017 Log Time Period (hrs) : ALL
Injection Time : 15:23 Total files within period : 16
Sample Directory : C:\INSTARCH\DATA\MAR1317\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
LLCALS1	1.00	1.00	1.00	CALIB. PT. 1 0.001/0.010 mg/kg, 1	13 Mar 2017	17:07
LLCALS2	1.00	1.00	1.00	CALIB. PT. 2 0.002/0.020 mg/kg, 1	13 Mar 2017	17:37
LLCALS3	1.00	1.00	1.00	CALIB. PT. 3 0.005/0.050 mg/kg, 1	13 Mar 2017	18:05
LLCALS4	1.00	1.00	1.00	CALIB. PT. 4 0.010/0.100 mg/kg, 1	13 Mar 2017	18:34
LLCALS5	1.00	1.00	1.00	CALIB. PT. 5 0.020/0.200 mg/kg, 1	13 Mar 2017	19:03
LLCALS6	1.00	1.00	1.00	CALIB. PT. 6 0.030/0.300 mg/kg, 1	13 Mar 2017	19:31
LLCALS7	1.00	1.00	1.00	CALIB. PT. 7 0.040/0.400 mg/kg, 1	13 Mar 2017	20:00
LLCALS8	1.00	1.00	1.00	CALIB. PT. 8 0.080/0.800 mg/kg, 1	13 Mar 2017	20:29
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.010/0.100 mg/kg, 1	13 Mar 2017	21:26
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.030/0.300 mg/kg, 1	13 Mar 2017	21:55
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 5.00g, 15.0 ml Purge	13 Mar 2017	22:53

8260 ISTD/SSTD 20ug/ml VOC0288
8260 BFB STD. 50ug/ml VOC0287
8260 ICV STD. 100ug/ml VOC0289
8260 CCV/CALIB. 100ug/ml VOC0290

V 8260 QSM LL H2O 5.0 Analytical Run
135661 on 3/21/2017

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
	843156							V 8260 QSM LL H2O 5.0				
					BFB				0			
	843150							V 8260 QSM LL H2O 5.0				
					LCSW				0			
	843151							V 8260 QSM LL H2O 5.0				
					CCV				0			
	843218							V 8260 QSM LL H2O 5.0				
					MBW				0			
125865	840414	TB-01	3/8/2017	0745		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0		M	**4**	
125865	840415	TB-02	3/9/2017	0745		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0		M	**4**	
125865	840398	RB-01	3/8/2017	1500		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0		GW	**4**	
125865	840416	RB-02	3/9/2017	1345		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	VOC 8260 QSM LL 5.0		GW	**4**	
	843459							V 8260 QSM LL H2O 5.0				
					LCSDW	843150			0			
	844217							V 8260 QSM LL H2O 5.0				
					CCVF				0			

10 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

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW031517.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR1617\BFB1.D
Injection Date : 16 Mar 2017 Log Time Period (hrs) : ALL
Injection Time : 08:20 Total files within period : 41
Sample Directory : C:\INSTARCH\DATA\MAR1617\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
BFB2	1.00	1.00	1.00	135661,BFB, 50 ng Injection	17 Mar 2017	07:48
CCV-LCS2	1.00	1.00	1.00	135661,LCSW, 4.00/40.00 ug/L, 25.0 ml	17 Mar 2017	08:31
MB2-CCB1	1.00	1.00	1.00	135661,MBW, pH<2, 25.0 ml DI H2O Purg	17 Mar 2017	09:28
840414	1.00	1.00	1.00	135661,840414, pH<2, 25.0 ml Purged + IS	17 Mar 2017	09:57
840415	1.00	1.00	1.00	135661,840415, pH<2, 25.0 ml Purged + IS	17 Mar 2017	10:25
840398	1.00	1.00	1.00	135661,840398, pH<2, 25.0 ml Purged + IS	17 Mar 2017	10:54
840416	1.00	1.00	1.00	135661,840416, pH<2, 25.0 ml Purged + IS	17 Mar 2017	11:22
LCSD1-~1	1.00	1.00	1.00	135661,LCSDW, 4.00/40.00 ug/L, 25.0 ml	17 Mar 2017	14:15

8260 ISTD/SSTD 20ug/ml VOC0288
8260 BFB STD. 50ug/ml VOC0287
8260 ICV STD. 100ug/ml VOC0294
8260 CCV/CALIB. 100ug/ml VOC0295

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		
03/16/2017	135571 135661	RLD/AGK	RLD	03/22/2017	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		If no, Do not proceed with analyses.
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		If no, recalibrate with required # of levels
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, recalibrate.
Was a second-source ICV analyzed?	Required before sample analyses.	Yes		Yes		If no, analyze prior to sample analyses.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalyzed ICV to address failures
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		If no, analyzed ICB before sample analyses.
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits	Yes		Yes		If no, analyze another blank to address detects.
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		If no, reanalyze BFB until acceptable; re-tuning the instrument may be necessary.
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		If no, analyzed CCV after acceptable tune check.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific		No		No	If no, reanalysis or recalibration may be required.
If necessary, were the results for outlying compounds qualified?		Yes		Yes		If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MB with each sample batch.
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)		No		No	If no, reanalyze MB an all affected data if possible or see SOP for more detailed criteria
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.?		Yes		Yes		If yes, affected results qualified "B"
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		If no, analyze a LCS with each sample batch.
Were the LCS (LCSD) recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.		No		No	If no, Reanalyze LCS and all affected data if possible or data requires qualification.
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?		Yes		Yes		If yes, affected results qualified "Q"
Is the relative percent difference (RPD) for each analyte between the LCS and LSCD (if applicable) acceptable?	generated limits, or client specific limits.	N/A		N/A		If no, affected results qualified "Y"
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		If no, analyze a MS/MSD pair with each sample batch.
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	If no, qualify detects (with an "M" flag) in the parent sample, also qualify non-detects if MS/MSD recoveries were low.
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	generated limits, or client specific limits.	Yes		Yes		If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If no, instrument maintenance may be required to correct problems.
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 no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed. Low surrogate recoveries require reanalysis.
If possible, were the affected samples reanalyzed?						If no, see below **
**Were reported sample results with failing surrogate recoveries qualified?						If yes, affected results qualified "S"
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		If no, see below: If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		If no, include sequence run with raw data.
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		If no, recapture the data and verify data prior to validation.
Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		IF No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
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		If No, include proper qualification(s) in LIMS and enter nonconformities into the NCR spreadsheet before data review/validation.

Non-applicable Yes/No cells are left blank

Comments:

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW031517.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\MAR1517B\BFB1.D
Injection Date : 15 Mar 2017 Log Time Period (hrs) : ALL
Injection Time : 16:04 Total files within period : 20
Sample Directory : C:\INSTARCH\DATA\MAR1517B\

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	15 Mar 2017	17:49
LLCALW2	1.00	1.00	1.00	CALIB. PT. 2 0.50/5.00 ug/L, 25.0	15 Mar 2017	18:17
LLCALW3	1.00	1.00	1.00	CALIB. PT. 3 1.00/10.00 ug/L, 25.	15 Mar 2017	18:46
LLCALW4	1.00	1.00	1.00	CALIB. PT. 4 2.00/20.00 ug/L, 25.	15 Mar 2017	19:15
LLCALW5	1.00	1.00	1.00	CALIB. PT. 5 4.00/40.00 ug/L, 25.	15 Mar 2017	19:43
LLCALW6	1.00	1.00	1.00	CALIB. PT. 6 6.00/60.00 ug/L, 25.	15 Mar 2017	20:12
LLCALW7	1.00	1.00	1.00	CALIB. PT. 7 8.00/80.00 ug/L, 25.	15 Mar 2017	20:40
LLCALW8	1.00	1.00	1.00	CALIB. PT. 8 16.00/160.0 ug/L, 25	15 Mar 2017	21:09
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 4.00/40.00 ug/L, 25.	15 Mar 2017	22:06
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 8.00/80.00, 25.0 ml	15 Mar 2017	22:34
ICB1	1.00	1.00	1.00	INITIAL CALIB BLANK pH<2, 25.0 ml DI H2O	15 Mar 2017	23:59

8260 ISTD/SSTD 20ug/ml VOC0288
8260 BFB STD. 50ug/ml VOC0287
8260 ICV STD. 100ug/ml VOC0294
8260 CCV/CALIB. 100ug/ml VOC0295

LPVO1-02 VOC
Volatiles Standards Prep Logbook
Logbook Created: 10/10/16
Balance used in reagent prep: VOB01

NOTEBOOK VIEW: LTN_LPVO1_02_VOC_Default, NOTEBOOK: LPVO1_02_VOC, PAGE: 25
Page is Locked
Author: rdigmann on: 21.03.2017 14:58:49
Page is not Witnessed
Project: Unassigned
Page Title: 031517

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0294	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0824, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0816, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0820 into 2250uL of MeOH.	MeOH / OSolv / 56029	100 ug/mL	03/15/2017	03/22/2017	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0295	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0813, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0815, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0821 into 2250uL of MeOH.	MeOH / OSolv / 56029	100 ug/mL	03/15/2017	03/22/2017	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0296	PVOC/GRO Istd./Sstd.	Into a 25 mL volumetric flask, add 1.0 mL of 2,000 ug/mL Fluorobenzene V0809 and 1.0 mL of 2,000 ug/mL aaa-TFT V0810 and bring to volume with MeOH.	MeOH / OSolv / 56029	80 ug/mL	03/15/2017	09/15/2017	RLD

LPVO1-02 VOC
Volatiles Standards Prep Logbook
Logbook Created: 10/10/16
Balance used in reagent prep: VOB01
NOTEBOOK VIEW: LTN_LPVO1_02_VOC_Default, NOTEBOOK: LPVO1_02_VOC, PAGE: 22
Page is Locked
Author: rdigmann on: 09.03.2017 09:32:05
Page is not Witnessed
Project: Unassigned
Page Title: 030617

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0287	8260 BFB Std.	75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V0787 into 2925uL of MeOH.	MeOH / OSolv/56029	50 ug/mL	03/06/2017	04/07/2017	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0288	8260 ISTD/SSTD	200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V0799 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-$_{d4}$ Std. V756 into 25mL of MeOH.	MeOH / OSolv/56029	20 ug/mL	03/06/2017	04/07/2017	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0289	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0804, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0816, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0820 into 2250uL of MeOH.	MeOH / OSolv/56029	100 ug/mL	03/06/2017	03/13/2017	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0290	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0813, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0815, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0821 into 2250uL of MeOH.	MeOH / OSolv/56029	100 ug/mL	03/06/2017	03/13/2017	RLD

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0799	8260 ISTD/SSTD Mix	Ultra Scientific	STM-540	CM-1098
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,500 ug/mL	MeOH	04/30/2018	08/22/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ISTD/SSTD.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0800	8260 VOC Mix	Ultra Scientific	DWM-588-1	CP-2742
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	07/31/2019	08/22/2016	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 CCV/Calib. Std.	

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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0817	2-Methylpentane; 1,2,4-Trimethylbenzene	SPEX CertiPrep	VO-CTWI-1	C1141107008
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 ug/mL	MeOH	11/069/2017	02/13/2017	RLD
# of Ampules/Units:	1	Comments:	Used for 8015C RTW Standard prep.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0818	1,4-Dioxane	SPEX CertiPrep	S-1715	BW160115004
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 ug/mL	MeOH	01/14/2019	02/13/2017	RLD
# of Ampules/Units:	1	Comments:	Used for 8260 (1,4-Dioxane) SIM ICV/Spiking Std. Prep.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0819	1,4-Dioxane	SPEX CertiPrep	S-1715	BW160907011
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 ug/mL	MeOH	09/07/2019	02/13/2017	RLD
# of Ampules/Units:	1	Comments:	Used for 8260 (1,4-Dioxane) SIM CCV/Calib.Std. Prep.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #

V0820	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW170207014
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	05/08/2017	02/13/2017	RLD
# of Ampules/Units:	2	Comments:	Used for 8260C ICV/Spiking Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0821	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW170207015
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	05/08/2017	02/13/2017	RLD
# of Ampules/Units:	2	Comments:	Used for 8260C CCv/Calib. Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0799	8260 ISTD/SSTD Mix	Ultra Scientific	STM-540	CM-1098
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,500 ug/mL	MeOH	04/30/2018	08/22/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ISTD/SSTD.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0800	8260 VOC Mix	Ultra Scientific	DWM-588-1	CP-2742
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	07/31/2019	08/22/2016	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 CCV/Calib. Std.	

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LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
NOTEBOOK VIEW: LTN_LSVO1_01_VOC_Default, NOTEBOOK: LSVO1_01_VOC, PAGE: 18
Page is Locked
Author: rdigmann on: 06.07.2016 10:03:05
Witness: AAnstett on: 03.08.2016 13:47:19
Project: Unassigned
Page Title: 062216

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0787	4-Bromofluorobenzene	Ultra Scientific	STS-110N	CH-3248A
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	11/30/2017	06/21/2016	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 BFB Standard.	

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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0815	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	BW170103005
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	07/02/2017	01/09/2017	RLD
# of Ampules/Units:	2	Comments:	Used to prepare 8260 CCV/CALIB. Standard.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0816	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	BW170103009
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	07/02/2017	01/09/2017	RLD
# of Ampules/Units:	2	Comments:	Used to prepare 8260 ICV/Spiking Standard.	

LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
NOTEBOOK VIEW: LTN_LSVO1_01_VOC_Default, NOTEBOOK: LSVO1_01_VOC, PAGE: 32
Page is Locked
Author: rdigmann on: 10.01.2017 08:07:30
Witness: AKURTH on: 08.02.2017 13:34:41
Project: Unassigned
Page Title: 122316

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0813	8260 VOC Mix	Ultra Scientific	DWM-588-1	CP-4768
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	10/31/2019	12/19/2016	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 CCV/Calib. Std. preparation.	

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LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015

NOTEBOOK VIEW: LTN_LSVO1_01_VOC_Default, NOTEBOOK: LSVO1_01_VOC, PAGE: 31
Page is Unlocked
Page is not Witnessed
Project: Unassigned
Page Title: 112916

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0811	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW161104005
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 - 10,000 ug/mL	MeOH	02/02/2017	11/28/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib. Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0812	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW161111008
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 - 10,000 ug/mL	MeOH	02/09/2017	11/28/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Std. preparation.	

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LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
NOTEBOOK VIEW: LTN_LSVO1_01_VOC_Default, NOTEBOOK: LSVO1_01_VOC, PAGE: 18
Page is Locked
Author: rdigmann on: 06.07.2016 10:03:05
Witness: AAnstett on: 03.08.2016 13:47:19
Project: Unassigned
Page Title: 062216

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0787	4-Bromofluorobenzene	Ultra Scientific	STS-110N	CH-3248A
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	11/30/2017	06/21/2016	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 BFB Standard.	

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CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V742	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150526010	1000-50000 ug/mL, 11/22/15	MeOH	6/2/15, RD	2x1mL
V743	8260 VOC Mix.	Accu Standard	M-502-10X-PAK	21501040	2000 ug/mL, 1/12/18	MeOH	6/9/15, RD	5x1mL
V744	8260 VOC Mix	Ultra Sci.	DWM-588-1	CM-1859	2000 ug/mL, 5/31/18	MeOH	6/18/15, RD	2x1mL
V745	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150526009	1000-50000 ug/mL, 11/22/15	MeOH	7/21/15, RD	2x1mL
V746	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150526010	1000-50000 ug/mL, 11/22/15	MeOH	7/21/15, RD	2x1mL
V747	VOC 8260 Additions	SPEX	VO-CTWI-12	TS150721007	1000-10000 ug/mL, 10/19/15	MeOH	7/23/15, RD	2x1mL
V748	VOC 8260 Additions	SPEX	VO-CTWI-12	TS150721008	1000-10000 ug/mL, 10/19/15	MeOH	7/23/15, RD	2x1mL
V749	8260 VOC Mix	Ultra Sci.	DWM-588-1	CM-3808	2000 ug/mL, 8/31/18	MeOH	8/6/15, RD	2x1mL
V750	VOC 8260 Special Additions	SPEX	VO-CTWI-12	TS150901001	1000-50000 ug/mL, 11/30/15	MeOH	9/1/15, RD	2x1mL
V751	VOC 8260 Special Additions	SPEX	VO-CTWI-12	TS150904001	1000-50000 ug/mL, 12/3/15	MeOH	9/10/15, RD	2x1mL
V752	Fluorobenzene	Ultra Sci	STS-160-1	CL-3264	2000 ug/mL 9/30/18	MeOH	9/25/15 RD	4x1mL
V753	a,a,a-TFT	Ultra Sci	STS-220N-1	CM-5040	2000 ug/mL 10/31/19	MeOH	9/25/15 RD	4x1mL
V754	VOC 8360 Special Addition	SPEX	VO-CTWI-5	BW150925015	1,000-50,000 ug/mL 03/23/16	MeOH	10/02/15 Bms	2x1mL
V755	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150925016	1,000-50,000 ug/mL 03/23/16	MeOH	10/02/15 Bms	2x1mL
V756	12-Dichlorobenzene-d4	Ultra Sci	STS-210-1	CG-1939Z	2000 ug/mL 9/30/18	MeOH	10/6/15 RD	4x1mL
V757	8260 VOC Mix	Ultra Sci	DWM-588-1	CM-3956	2000 ug/mL 8/31/18	MeOH	10/15/15 RD	4x1mL
V758	8260 VOC Mix.	Accustandard	M-502-10X-PAK	21508111	2000 ug/mL 8/25/18	MeOH	11/3/15 RD	5x1mL
V759	PVOC/GRO Mix	RESTEK	30095	A0112470	1,000/10,000 ug/mL 08/31/22	MeOH	11/10/15 Bms	2x1mL
V760	PVOC/GRO Mix	ULTRA	UST-100-1	CK-2547A	1,000/10,000 ug/mL 09/30/17	MeOH	11/10/15 Bms	4x1mL

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If multiple analytes and all of the concentrations vary, mark VARIES.

RD 11/23/15

INORGANIC
CLP FORMS
DOCUMENTS

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-FD-01

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	89.4	Lab Sample ID:	840408
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	89.4		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB01-12-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	82.6	Lab Sample ID:	840405
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.6		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB04-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	82.4	Lab Sample ID:	840410
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.4		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB05-18-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	90.1	Lab Sample ID:	840413
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	90.1		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB08-17-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	88.1	Lab Sample ID:	840406
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
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

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB10-9-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	80.5	Lab Sample ID:	840407
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	80.5		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB11-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	79.0	Lab Sample ID:	840409
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	79.0		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB14-19-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	88.8	Lab Sample ID:	840404
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	88.8		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB22-19-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	87.8	Lab Sample ID:	840399
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	87.8		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB23-16-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	89.9	Lab Sample ID:	840400
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	89.9		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB24-17-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	89.4	Lab Sample ID:	840401
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	89.4		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB25-5-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	81.5	Lab Sample ID:	840402
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.5		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB26-10-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	86.2	Lab Sample ID:	840403
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	86.2		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB37-11-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	84.7	Lab Sample ID:	840397
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
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

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB38-15-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	81.2	Lab Sample ID:	840395
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.2		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB44-11-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	80.9	Lab Sample ID:	840396
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	80.9		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB47-18-1703

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD
Matrix (soil/water):	SOIL	SDG No.:	125865
% Solids:	88.7	Lab Sample ID:	840394
Analytical Method:	EPA 8000C	Date Received:	03/10/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	135652	Analysis Date/Time	03/10/2017 14:20
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	88.7		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

6

DUPLICATES

Sample Description

DF-SB47-18-1703

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD

Matrix: SOLID

SDG No.: 125865

% Solid for Sample: 88.7

Concentration Units: %

Analytical Prep Batch # 1

Analytical Preparation Date/Time 0

Analytical Run #: 135652

ICAL Calibration #:

Sample #: 841119

Parent Sample #: 840394

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	03/10/2017	14:20	8	88.7		89.4		1		GRA

INORGANICS
RAW DATA
DOCUMENTS

TOTAL SOLIDS (PERCENT)

LIMS #: 135652

Start Date:	**03/10/2017**	**Start Time:**	14:20		**Analyst:**	BMM
	Sample ID#	**Dish#**	**Tared Weight g** *(D)*	**Wet Weight g** *(E)*	**Dry Weight g** *(F)*	**RESULTS % TOTAL SOLIDS**
1)	840395	B0098548	2.54	13.78	11.67	81.2%
2)	840396	B0098549	2.54	14.16	11.94	80.9%
3)	840397	B0098550	2.57	15.23	13.29	84.7%
4)	840399	B0098551	2.57	13.27	11.96	87.8%
5)	840400	B0098552	2.60	17.81	16.27	89.9%
6)	840401	B0098553	2.58	14.65	13.37	89.4%
7)	840402	B0098554	2.55	15.82	13.37	81.5%
8)	840403	B0098514	2.56	14.36	12.73	86.2%
9)	840404	A0100500	2.59	13.32	12.12	88.8%
10)	840405	A0100499	2.58	14.54	12.46	82.6%
11)	840406	A0100474	2.61	13.32	12.05	88.1%
12)	840407	A0100081	2.56	13.67	11.50	80.5%
13)	840408	A0101404	2.58	13.96	12.75	89.4%
14)	840409	A0101581	2.60	13.05	10.86	79.0%
15)	840410	A0101399	2.60	13.95	11.95	82.4%
16)	840413	A0101577	2.58	19.17	17.52	90.1%
17)						0.0%
18)						0.0%
19)						0.0%
*20)	840394	A0101580	2.58	13.79	12.52	88.7%
Dup 20)	840394	A0101578	2.60	13.40	12.25	89.4%

Dry Weight = Sample + Dish (gms)		* 2nd Reading,	12.52	
Wet Weight = Sample + Dish (gms)			Set RPD:	0.8%
	Balance: VOB-01			
			*mg Difference	0

Stop Date:	03/13/2017
Stop Time:	10:51

Calculations

*2nd reading must be within 50mg of the 1st

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

INORGANICS
LOGBOOK
DOCUMENTS

WSOLIDS Analytical Run
135652 on 03/13/2017

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
125865	840394		03/08/2017 1410		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB47-18-1703		Designated MS/MSD							
125865	840395		03/08/2017 1440		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB38-15-1703									
125865	840396		03/08/2017 1505		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB44-11-1703									
125865	840397		03/08/2017 1525		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB37-11-1703									
125865	840399		03/09/2017 0745		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB22-19-1703									
125865	840400		03/09/2017 0810		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB23-16-1703									
125865	840401		03/09/2017 0850		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB24-17-1703									
125865	840402		03/09/2017 0905		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB25-5-1703									
125865	840403		03/09/2017 0940		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB26-10-1703									
125865	840404		03/09/2017 1005		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB14-19-1703									
125865	840405		03/09/2017 1200		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB01-12-1703									
125865	840406		03/09/2017 1225		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB08-17-1703									
125865	840407		03/09/2017 1255		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB10-9-1703									
125865	840408		03/09/2017		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-FD-01									
125865	840409		03/09/2017 1310		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB11-10-1703									
125865	840410		03/09/2017 1325		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB04-10-1703									
125865	840413		03/09/2017 1350		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD	SOLIDS,PERCENT		S	4	
		DF-SB05-18-1703									
	841119		03/08/2017 1410				SOLIDS,PERCENT				
		DF-SB47-18-1703		DUP	840394			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

FWC26-10 Data Review Checklist

		Method: Percent Solids SW846-8000C	Independent Data Review Checklist		Balance: VOB-01
LIMS Run #(s)	**Analysis Date**	**Analyst / Data Interpreter**	**Independent Reviewer**	**Date of Review**	**Approved? (Yes or No)**
135650-135652	03/13/2017	BMM	RED	03/13/2017	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.

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		Qualify data prepared after hold time
2. Were samples dried overnight?	> 8hours	Yes		Yes		If No: place samples back into oven for mimium of 8 hours of total dry time.
3. Were drying start and stop times recorded?	---	Yes		Yes		If No: record times and temperatures
4. Were duplicates analyzed at the appropriate frequency?	1 per 20 of similar matrix or at program/project specific frequency	Yes		Yes		If No: reprep samples with appropreate frequency for a duplicate.
5. Were the duplicates within acceptable limits?	Within in-house or program/project specific QC limits	Yes		Yes		If No: reprep and reanalyze samples or qualify parent sample result (Y).
6. Are all samples on the job lists accounted for?	---	Yes		Yes		If No: analyze samples that were were missed.
7. Were nonconformities (if applicable) documented in the NCR spreadsheet?		Yes		Yes		If No: Enter nonformities into the NCR spreadsheet before data review/validation.

CHAIN OF CUSTODY,
PM CONFIRMATION
AND
SAMPLE CONDITION FORMS
DOCUMENTS

Rev. 4/2010

CHAIN OF CUSTODY

Page _____ of _____

Company: Trinity Analysis + Dev Corp
Project Contact: Todd Calhoun
Telephone: 850-613-6800
Project Name: DDM Dunn Field
Project #:
Location: Memphis, TN
Sampled By: Tony Schmucker

CT LABORATORIES

Folder #: 125865
Company: TRINITY ANALYSIS &
Project: DEFENSE DEPOT MEMP
Logged By: DRT PM: BAT

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

ogram:
SM RCRA SDWA NPDES
lid Waste Other _____
O #

Report To:
EMAIL: tcalhoun@trinityinc.com
Company:
Address:

Invoice To:*
EMAIL:
Company:
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

ANALYSES REQUESTED

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample ID Description	Filtered? Y/N	VOCs-8260	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
3-8-17	1410	S	Grab	DF-SB47-18-1703		X			840394
3-8-17	1410	S	Grab	DF-SB47-18-1703-MS		X			840395 94 BA
3-8-17	1410	S	Grab	DF-SB47-18-1703-SD		X			840396 94
3-8-17	1440	S	Grab	DF-SB38-15-1703		X			840397 840398
3-8-17	1505	S	Grab	DF-SB-44-11-1703		X			840399
3-8-17	1525	S	Grab	DF-SB37-11-1703		X			840400
3-8-17	1500	W	Grab	RB-01		X			840401
3-9-17	0745	S	Grab	DF-SB22-19-1703		X			840402
3-9-17	0810	S	Grab	DF-SB23-16-1703		X			840403
3-9-17	0850	S	Grab	DF-SB24-17-1703		X			840404
3-9-17	0905	S	Grab	DF-SB25-5-1703		X			840405
3-9-17	0940	S	Grab	DF-SB26-10-1703		X			840406

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
[signature]	3/9/17 1600	[signature]	3/10/17 1125
Received by:	Date/Time	Received for Laboratory by:	Date/Time
		[signature]	3/10/17 1244

Lab Use Only
Ice Present (Yes) No
Temperature 1.7, 2.6
Cooler # 5933, 5226

Rev. 4/2010

CHAIN OF CUSTODY

Page _____ of _____

Company: Trinity Analysis & Dev Corp
Project Contact: Todd Calhoun
Telephone: 850-613-2800
Project Name: DDM Dunn Field
Project #:
Location: Memphis, TN
Sampled By: Tony Schmucker

CT LABORATORIES
Folder #: 125865
Company: TRINITY ANALYSIS &
Project: DEFENSE DEPOT MEMP
Logged By: [illegible]

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

gram:
1 RCRA SDWA NPDES
l Waste Other _____
#

Report To:
EMAIL:
Company:
Address:

Invoice To:*
EMAIL:
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Note: Correct Sample ID is DF-SB10-9-1703 for clarification

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 ID Description	Filtered? Y/N	ANALYSES REQUESTED: VOCs - 8260	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
						Fill in Spaces with Bottles per Test			
3-9-17	1005	S	Grab	DF-SB14-18-1703		X			~~840406~~
3-9-17	1206	S	Grab	DF-SB01-12-1703		X			~~840407~~
3-9-17	1225	S	Grab	DF-SB08-12-1703		X			~~840408~~
3-9-17	1255	S	Grab	DF-SB10-9-1703		X			840407
3-9-17	—	S	Grab	DF-FD-01		X			840408
3-9-17	1310	S	Grab	DF-SB11-10-1703		X			840409
3-9-17	1325	S	Grab	DF-SB04-10-1703		X			840410
3-9-17	1350	S	Grab	DF-SB05-18-1703		X			840413
3-8-17	0745	W	Grab	TB-01		X			840414
3-9-17	0745	W	Grab	TB-02		X			~~840415~~
3-9-17	1345	W	Grab	RB-02		X			840416

840404
840405
840406

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
	3/9/17 1600		
Received by:	Date/Time	Received for Laboratory by:	Date/Time
			3/10/17 1244

Lab Use Only
Ice Present ~~Yes~~ No
Temperature 1.7 2.6
Cooler # 5933 5926

Page 450

Cooler Receipt Form

Ice Present (YES) NO

Temperature 2.6

IR Gun # 15

Initials JS

Date 3/10/17 1125 Time 1140

Cooler #: 5226

ORIGIN ID:VPSA (850) 613-6800
TODD CALHOUN
TRINITY ANALYSIS & DEVELOPMENT
1002 N EGLIN PKWY

SHALIMAR, FL 32579
UNITED STATES US

SHIP DATE: 09MAR17
ACTWGT: 40.00 LB
CAD: 104773633/INET3850
DIMS: 25x14x14 IN

BILL SENDER

TO SAMPLE RECEIVING
CT LABORATORIES
1230 LANGE CT

BARABOO WI 53913
(608) 356-2760 REF: 10A017.000.462.00
INV:
PO DEPT:

546J3/ ADB/53C1

FedEx Express

FRI - 10 MAR 3:00P
STANDARD OVERNIGHT

2 of 2
MPS# 0263 7786 1631 0917
Mstr# 7786 1631 0608

0201

53913
WI-US MSN

XH MSNA

3/10/17

Cooler Receipt Form

Ice Present (YES) NO

Temperature 1.7

IR Gun # 15

Initials JB

Date 3/10/17 Time 1125

Cooler #: 5933

ORIGIN ID:VPSA (850) 613-6800
TODD CALHOUN
TRINITY ANALYSIS & DEVELOPMENT
1002 N EGLIN PKWY

SHALIMAR, FL 32579
UNITED STATES US

SHIP DATE: 09MAR17
ACTWGT: 40.00 LB
CAD: 104773633/INET3850
DIMS: 25x14x14 IN

BILL SENDER

TO SAMPLE RECEIVING
CT LABORATORIES
1230 LANGE CT

BARABOO WI 53913
(608) 356-2760 REF: 10A017.000.462.00
INV:
PO: DEPT

546J3/1ADB/63C1

FedEx Express

J171117021401ur

FRI - 10 MAR 3:00P
STANDARD OVERNIGHT

1 of 2
TRK# 0201 7786 1631 0608
MASTER

XH MSNA

53913
WI-US MSN

3-9-17 1125

Folder #: 125865

PM LOGIN CONFIRMATION

Contract #: 3046

Company: TRINITY ANALYSIS & DEVELOPMENT **Project:** DDM DUNN FIELD **Proj #:**

Project Phase: MEMPHIS, TN **PO Number:** 5003 **Invoice #:** 126406

Project Manager: *BMS* **Date Received:** 03/10/17 **Log Date:** 03/10/2017

Report To: TODD CALHOUN CC:
1002 N EGLIN PARKWAY

SHALIMAR, FL 32579
Phone: : Fax:
Rep. E-Mail tcalhoun@trinityadc.com

Collected By:
Collector's Phone:

Invoice To :ACCOUNTS PAYABLE CC:
1002 N EGLIN PARKWAY

SHALIMAR, FL 32579
Phone: Fax:
EMail:

Arrival Temperature: 2.6 oC

SAMPLE #: 840394 DESCR: DF-SB47-18-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 03/08/2017 Time: 1410**

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***		03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			***Y*** ***DESIGNATED MATRIX SPIKE***		03/22/2017		Logged

SAMPLE #: 840395 DESCR: DF-SB38-15-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 03/08/2017 Time: 1440**

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			***Y***		03/22/2017		Logged

SAMPLE #: 840396 DESCR: DF-SB44-11-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 03/08/2017 Time: 1505**

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS

Folder #: 125865 **Company:** *TRINITY ANALYSIS & DEVELOPMENT* **Project:** DDM DUNN FIELD

SAMPLE #: 840396 **DESCR:** DF-SB44-11-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/08/2017 **Time:** 1505

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

SAMPLE #: 840397 **DESCR:** DF-SB37-11-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/08/2017 **Time:** 1525

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

SAMPLE #: 840398 **DESCR:** RB-01 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 03/08/2017 **Time:** 1500

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	03/22/2017	03/22/2017		Logged

SAMPLE #: 840399 **DESCR:** DF-SB22-19-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 0745

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

SAMPLE #: 840400 **DESCR:** DF-SB23-16-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 0810

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

Folder #: 125865 **Company:** *TRINITY ANALYSIS & DEVELOPMENT* **Project:** DDM DUNN FIELD

SAMPLE #: 840401 **DESCR:** DF-SB24-17-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 0850

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

SAMPLE #: 840402 **DESCR:** DF-SB25-5-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 0905

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

SAMPLE #: 840403 **DESCR:** DF-SB26-10-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 0940

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

SAMPLE #: 840404 **DESCR:** DF-SB14-19-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 1005

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

SAMPLE #: 840405 **DESCR:** DF-SB01-12-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 1200

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

Folder #: 125865 **Company:** *TRINITY ANALYSIS & DEVELOPMENT* **Project:** DDM DUNN FIELD

SAMPLE #: 840406 **DESCR:** DF-SB08-17-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 1225

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

SAMPLE #: 840407 **DESCR:** DF-SB10-9-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 1255

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

SAMPLE #: 840408 **DESCR:** DF-FD-01 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017

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)				03/23/2017	03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	03/23/2017	03/22/2017		Logged

SAMPLE #: 840409 **DESCR:** DF-SB11-10-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 1310

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)				03/23/2017	03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	03/23/2017	03/22/2017		Logged

SAMPLE #: 840410 **DESCR:** DF-SB04-10-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 1325

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)				03/23/2017	03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	03/23/2017	03/22/2017		Logged

Folder #: 125865 **Company:** *TRINITY ANALYSIS & DEVELOPMENT* **Project:** DDM DUNN FIELD

SAMPLE #: 840413 **DESCR:** DF-SB05-18-1703 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 03/09/2017 **Time:** 1350

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)					03/22/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*		03/22/2017		Logged

SAMPLE #: 840414 **DESCR:** TB-01 **PRIMARY / DETAILED MATRIX:** AQUEOUS / TRIP BLANK **SAMPLED:** 03/08/2017 **Time:** 0745

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	03/23/2017	03/22/2017		Logged

SAMPLE #: 840415 **DESCR:** TB-02 **PRIMARY / DETAILED MATRIX:** AQUEOUS / TRIP BLANK **SAMPLED:** 03/09/2017 **Time:** 0745

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	03/23/2017	03/22/2017		Logged

SAMPLE #: 840416 **DESCR:** RB-02 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 03/09/2017 **Time:** 1345

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	03/23/2017	03/22/2017		Logged

Invoice Number: 126406 **Preliminary Invoice Estimate:** $ 1,428.00

Item	Matrix	Quantity	Price	Expedited TAT Surcharge	Total
SOLIDS,PERCENT	SOIL	17	$ 0.00	0.00	$ 0.00
VOC 8260 QSM LL 5.0	GROUND WATER	2	$ 68.00	0.00	$ 136.00
VOC 8260 QSM LL 5.0	SOIL	17	$ 68.00	0.00	$ 1156.00
VOC 8260 QSM LL 5.0	TRIP BLANK	2	$ 68.00	0.00	$ 136.00
Temporary Fuel Surcharge on lab supplies and services (if applicable):					$ 0.00

Bottle Information

Container	# Containers	Tests
SOLIDS	**19**	%SOL
TERRA CORE	**1**	VOC
TERRA CORE KIT	**52**	VOC
TERRA CORE LL	**4**	VOC
VOA HCL	**8**	VOC

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Sample Condition Report

Folder #: 125865
Client: TRINITY ANALYSIS & DEVELOPMENT

Print Date / Time: 03/10/2017 12:44
Received Date / Time / By: 03/10/2017 11:25 JLS

Project Name: DDM DUNN FIELD
Project Phase: MEMPHIS, TN

Log-In Date / Time / By: 03/10/2017 12:44 BNA
Project #: PM: BMS

Coolers: 5933 5226
Custody Seals Present : **Y**

Temperature: <2.6 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: SIGNED AND DATED
Tracking Number: 778616310608
Temp Blank Enclosed? **Y**

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

ONE CUSTOM-MADE CUSTODY SEAL WAS PRESENT AND INTACT ON EACH COOLER UPON RECEIPT - BOTH WERE DATED 3/9/17 AND SIGNED.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
840394 DF-SB47-18-1703				
	SOLIDS	1	/	%SOL
	SOLIDS	1	/	%SOL
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) = 3**		
840394 DF-SB47-18-1703				
	TERRA CORE	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE*) = 1**		
840394 DF-SB47-18-1703				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE KIT*) = 4**		
840394 DF-SB47-18-1703				
	TERRA CORE LL	1	/	VOC
	TERRA CORE LL	1	/	VOC
	TERRA CORE LL	1	/	VOC
	TERRA CORE LL	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE LL*) = 4**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
840395 DF-SB38-15-1703				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) = 1**		
840395 DF-SB38-15-1703				
	TERRA CORE KIT	1	/	VOC

TERRA CORE KIT	1	/		VOC
TERRA CORE KIT	1	/		VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
840396 DF-SB44-11-1703				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
840396 DF-SB44-11-1703				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
840397 DF-SB37-11-1703				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
840397 DF-SB37-11-1703				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
840398 RB-01				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
840399 DF-SB22-19-1703				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
840399 DF-SB22-19-1703				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
840400 DF-SB23-16-1703				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

125865

840400 DF-SB23-16-1703

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

840401 DF-SB24-17-1703

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

840401 DF-SB24-17-1703

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

840402 DF-SB25-5-1703

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

840402 DF-SB25-5-1703

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

840403 DF-SB26-10-1703

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

840403 DF-SB26-10-1703

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

840404 DF-SB14-19-1703

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

840404 DF-SB14-19-1703

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

125865

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
840405 DF-SB01-12-1703				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
840405 DF-SB01-12-1703				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
840406 DF-SB08-17-1703				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
840406 DF-SB08-17-1703				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
840407 DF-SB10-9-1703				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			
840407 DF-SB10-9-1703				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
840408 DF-FD-01				
	TERRA CORE KIT	1	/	
	TERRA CORE KIT	1	/	
	TERRA CORE KIT	1	/	
	Total # of Containers of Type (*TERRA CORE KIT*) = 3			
840408 DF-FD-01				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type (*SOLIDS*) = 1			

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

125865

840409 DF-SB11-10-1703

TERRA CORE KIT	1	/	
TERRA CORE KIT	1	/	
TERRA CORE KIT	1	/	

Total # of Containers of Type (*TERRA CORE KIT*) = 3

840409 DF-SB11-10-1703

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

---

840410 DF-SB04-10-1703

TERRA CORE KIT	1	/	
TERRA CORE KIT	1	/	
TERRA CORE KIT	1	/	

Total # of Containers of Type (*TERRA CORE KIT*) = 3

840410 DF-SB04-10-1703

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

---

840413 DF-SB05-18-1703

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

840413 DF-SB05-18-1703

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

---

840414 TB-01

VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

---

840415 TB-02

VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

---

840416 RB-02

VOA HCL	1	/	VOC
VOA HCL	1	/	VOC
VOA HCL	1	/	VOC

Total # of Containers of Type (*VOA HCL*) = 3

125865

Condition Code	*Condition Description*
1	Sample Received OK

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ANALYTICAL RESULTS FOR:

TODD CALHOUN
TRINITY ANALYSIS & DEVELOPMENT
1002 N. EGLIN PARKWAY
SHALIMAR, FL 32579

PROJECT SITE:	DDM Dunn Field Phase II; Memphis, TN
DOD CONTRACT #:	W9128F-11-D-0029, TO CK01
PROJECT #:	
SDG:	126716
PREPARED:	May 9, 2017

TOTAL # OF PAGES IN THIS DOCUMENT: 632

The data contained in the following report have been reviewed by the appropriate CT Laboratories' LLC 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.

APPROVED BY: Brett Szymanski
PROJECT MANAGER

Certifications: IL (NELAP 200073), KS (NELAP E-10368), WI (157066030), DOD ELAP (A2LA 3806.01), VA (NELAP 4602038), MD (WI 00061), LA (NELAP ACC20160002), ISO17025 (A2LA 3806.01), GA EDP Stipulation (Accreditor: LA NELAP, ACC#: ACC20160002, Scope: Non-potable water solid and chemical materials, biological tissue, Effective: 12/10/2014, Expires: annually)

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Case Narrative

Client: Trinity Analysis & Development
Project: Dunn Field Phase II – Defense Depot Memphis, TN
Sample Receipt Date: 04/19/2017
SDG #: 126716

Twenty-two soil samples, two rinse blanks, and two trip blanks were received and analyzed for VOCs. The assigned sample ID number, 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. A breakdown of sample receipt information can be found on the Sample Condition Report located in the last section of the data package and any exceptions are noted below. The analyses were performed following DOD QSM 5.

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 Organic Analysis:

The samples were analyzed using US EPA SW-846 Method 8260C (VOC). 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.

Compounds that may not meet the recommended minimum average response factor (ARF) criteria for 8260C (such as several of the ketones) are analyzed at concentrations 2 to 50 times higher than normal to make up for their lack of response. However, the ARF on the response factor (RF) forms do not reflect this change in concentration. These compounds may be "flagged" on RF forms as a result.

VOC, Low Level (8260C) Soil Analysis

Iodomethane was detected in the Initial Calibration Blank (ICB) on the associated calibration curve (LS042717).

Analytical Run # 137136

Iodomethane was detected in the Method Blank (MB). Detects of this compound in the associated samples were qualified with a "B" flag.

The Matrix Spike (MS) for sample # 856734 had high recoveries for tetrachloroethene and 4-methyl-2-pentanone as well as a high recovery for styrene. The Matrix Spike Duplicate (MSD) had low recoveries for naphthalene, styrene, and vinyl acetate. These compounds were qualified with an "M" flag on the parent sample. The RPD limits between the spikes were exceeded for a number of compounds. The parent sample results for these compounds were qualified with a "Y" flag.

Analytical Run # 137137

Dichlorodifluoromethane was detected in the MB. Detects of this compound in the associated samples were qualified with a "B" flag.

A Laboratory Control Sample Duplicate (LCSD) was analyzed in lieu of a MSD to demonstrate precision.

VOC, Low Level (8260C) Water Analysis

Chloromethane was detected in the ICB on the associated calibration curve (LW040917).

Analytical Run # 136990

Chloromethane was detected in the Method Blank (MB). Detects of this compound in the associated samples were qualified with a "B" flag.

A LCSD was analyzed in lieu of a MSD to demonstrate precision.

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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

126716

TRINITY ANALYSIS & DEVELOPMENT
TODD CALHOUN
1002 N EGLIN PARKWAY
SHALIMAR, FL 32579

Project Name: DDM DUNN FIELD PHASE II
Project #:

CT Sample #	Folder #	Client Sample #	Sample Description	Matrix	Date Sampled	Date Received
856713	126716		DF-SB59-16-1704	SOIL	04/17/2017	04/19/2017
856716	126716		DF-SB59-20-1704	SOIL	04/17/2017	04/19/2017
856717	126716		DF-SB62-10-1704	SOIL	04/18/2017	04/19/2017
856718	126716		DF-SB62-16-1704	SOIL	04/18/2017	04/19/2017
856719	126716		DF-SB63-7-1704	SOIL	04/18/2017	04/19/2017
856720	126716		DF-SB63-15-1704	SOIL	04/18/2017	04/19/2017
856721	126716		DF-SB67-3-1704	SOIL	04/18/2017	04/19/2017
856722	126716		DF-SB67-10-1704	SOIL	04/18/2017	04/19/2017
856723	126716		DF-DUP-2-1704	SOIL	04/18/2017	04/19/2017
856724	126716		DF-TB-2-1704	TRIP BLANK	04/18/2017	04/19/2017
856725	126716		DF-RB-2-1704	GROUND WATER	04/18/2017	04/19/2017
856726	126716		DF-SB66-19-1704	SOIL	04/18/2017	04/19/2017
856727	126716		DF-SB61-13-1704	SOIL	04/17/2017	04/19/2017
856728	126716		DF-SB61-20-1704	SOIL	04/17/2017	04/19/2017
856729	126716		DF-SB60-16-1704	SOIL	04/17/2017	04/19/2017
856730	126716		DF-SB60-19-1704	SOIL	04/17/2017	04/19/2017
856731	126716		DF-DUP-1-1704	SOIL	04/17/2017	04/19/2017
856732	126716		DF-TB-1-1704	TRIP BLANK	04/17/2017	04/19/2017
856733	126716		DF-RB-1-1704	GROUND WATER	04/17/2017	04/19/2017
856734	126716		DF-SB58-11-1704	SOIL	04/17/2017	04/19/2017
856737	126716		DF-SB58-23-1704	SOIL	04/17/2017	04/19/2017
856738	126716		DF-SB66-12-1704	SOIL	04/18/2017	04/19/2017
856739	126716		DF-SB65-19-1704	SOIL	04/18/2017	04/19/2017
856740	126716		DF-SB65-5-1704	SOIL	04/18/2017	04/19/2017
856741	126716		DF-SB64-18-1704	SOIL	04/18/2017	04/19/2017
856742	126716		DF-SB64-13-1704	SOIL	04/18/2017	04/19/2017

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QC Batch Cross Reference Summary

TRINITY ANALYSIS & DEVELOPMENT
TODD CALHOUN
1002 N EGLIN PARKWAY
SHALIMAR, FL 32579

Project Name: DDM DUNN FIELD PHASE II
Project #:
Report Date: 05/09/2017
Date Received: 04/19/2017
SDG #: 126716

Inorganic Parameters

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
856713	Solids, Percent	EPA 8000C	SOIL		136979
856716	Solids, Percent	EPA 8000C	SOIL		136979
856717	Solids, Percent	EPA 8000C	SOIL		136979
856718	Solids, Percent	EPA 8000C	SOIL		136979
856719	Solids, Percent	EPA 8000C	SOIL		136979
856720	Solids, Percent	EPA 8000C	SOIL		136979
856721	Solids, Percent	EPA 8000C	SOIL		136979
856722	Solids, Percent	SM 2540G	SOIL		136979
856723	Solids, Percent	EPA 8000C	SOIL		136979
856726	Solids, Percent	EPA 8000C	SOIL		136979
856727	Solids, Percent	EPA 8000C	SOIL		136979
856728	Solids, Percent	EPA 8000C	SOIL		136979
856729	Solids, Percent	EPA 8000C	SOIL		136979
856730	Solids, Percent	EPA 8000C	SOIL		136979
856731	Solids, Percent	EPA 8000C	SOIL		136979
856734	Solids, Percent	EPA 8000C	SOIL		136979
856737	Solids, Percent	EPA 8000C	SOIL		136979
856738	Solids, Percent	EPA 8000C	SOIL		136979
856739	Solids, Percent	EPA 8000C	SOIL		136980
856740	Solids, Percent	EPA 8000C	SOIL		136980
856741	Solids, Percent	EPA 8000C	SOIL		136980
856742	Solids, Percent	EPA 8000C	SOIL		136980

Organic Parameters

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Project Name: DDM DUNN FIELD PHASE II
Project #:
SDG #: 126716

CTI LAB#:	Parameter	Method	Matrix	Prep Batch #	Analytical Run #
856713	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856716	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856717	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856718	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856719	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856720	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856721	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856722	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856723	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856724	VOC 8260 QSM Low Level 5.0	EPA 8260C	TRIP BLANK		136990
856725	VOC 8260 QSM Low Level 5.0	EPA 8260C	GROUND WATER		136990
856726	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856727	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856728	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856729	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856730	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856731	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856732	VOC 8260 QSM Low Level 5.0	EPA 8260C	TRIP BLANK		136990
856733	VOC 8260 QSM Low Level 5.0	EPA 8260C	GROUND WATER		136990
856734	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856737	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856738	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62086	137136
856739	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62087	137137
856740	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62087	137137
856741	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62087	137137
856742	VOC 8260 QSM Low Level 5.0	EPA 8260C	SOIL	62087	137137

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL SUMMARY
DOCUMENTS

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1A

VOLATILE ORGANICS ANALYSIS

Sample Description

DF-DUP-1-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.78 (g/mL)	CTL Sample ID:	856731
% Solids:	83.2	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 05:51	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.89	U	0.27	0.89	1.8	1.8
71-55-6	1,1,1-Trichloroethane	0.89	U	0.27	0.89	1.8	1.8
79-34-5	1,1,2,2-Tetrachloroethane	0.89	U	0.44	0.89	1.8	1.8
79-00-5	1,1,2-Trichloroethane	0.89	U	0.35	0.89	1.8	1.8
75-34-3	1,1-Dichloroethane	0.89	U	0.35	0.89	1.8	1.8
75-35-4	1,1-Dichloroethene	0.89	U	0.35	0.89	1.8	1.8
563-58-6	1,1-Dichloropropene	0.89	U	0.35	0.89	1.8	1.8
87-61-6	1,2,3-Trichlorobenzene	1.8	U	0.80	1.8	3.5	3.5
96-18-4	1,2,3-Trichloropropane	0.89	U	0.44	0.89	1.8	1.8
120-82-1	1,2,4-Trichlorobenzene	1.8	U	0.80	1.8	3.5	3.5
95-63-6	1,2,4-Trimethylbenzene	1.8	U	0.71	1.8	3.5	3.5
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U	1.2	1.8	3.5	3.5
106-93-4	1,2-Dibromoethane	0.89	U	0.35	0.89	1.8	1.8
95-50-1	1,2-Dichlorobenzene	1.8	U	0.80	1.8	3.5	3.5
107-06-2	1,2-Dichloroethane	0.89	U	0.44	0.89	1.8	1.8
78-87-5	1,2-Dichloropropane	0.89	U	0.35	0.89	1.8	1.8
108-67-8	1,3,5-Trimethylbenzene	1.8	U	0.80	1.8	3.5	3.5
541-73-1	1,3-Dichlorobenzene	1.8	U	0.80	1.8	3.5	3.5
142-28-9	1,3-Dichloropropane	0.89	U	0.35	0.89	1.8	1.8
106-46-7	1,4-Dichlorobenzene	1.8	U	0.80	1.8	3.5	3.5
544-10-5	1-Chlorohexane	0.89	U	0.53	0.89	1.8	1.8
594-20-7	2,2-Dichloropropane	0.89	U	0.35	0.89	1.8	1.8
78-93-3	2-Butanone	18	U	8.9	18	35	35
95-49-8	2-Chlorotoluene	1.8	U	0.89	1.8	3.5	3.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-DUP-1-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.78 (g/mL)	CTL Sample ID:	856731
% Solids:	83.2	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 05:51	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	18	U	9.8	18	35	35
106-43-4	4-Chlorotoluene	1.8	U	0.80	1.8	3.5	3.5
108-10-1	4-Methyl-2-pentanone	18	U	8.9	18	35	35
67-64-1	Acetone	19.7	J	8.9	18	35	35
71-43-2	Benzene	0.89	U	0.27	0.89	1.8	1.8
108-86-1	Bromobenzene	0.89	U	0.44	0.89	1.8	1.8
74-97-5	Bromochloromethane	0.89	U	0.35	0.89	1.8	1.8
75-27-4	Bromodichloromethane	0.89	U	0.35	0.89	1.8	1.8
75-25-2	Bromoform	0.89	U	0.35	0.89	1.8	1.8
74-83-9	Bromomethane	1.8	U	0.62	1.8	3.5	3.5
75-15-0	Carbon disulfide	1.8	U	0.80	1.8	3.5	3.5
56-23-5	Carbon tetrachloride	0.89	U	0.27	0.89	1.8	1.8
108-90-7	Chlorobenzene	0.89	U	0.35	0.89	1.8	1.8
75-00-3	Chloroethane	0.89	U	0.44	0.89	1.8	1.8
67-66-3	Chloroform	0.89	U	0.35	0.89	1.8	1.8
74-87-3	Chloromethane	0.89	U	0.35	0.89	1.8	1.8
156-59-2	cis-1,2-Dichloroethene	0.89	U	0.35	0.89	1.8	1.8
10061-01-5	cis-1,3-Dichloropropene	0.89	U	0.27	0.89	1.8	1.8
124-48-1	Dibromochloromethane	0.89	U	0.35	0.89	1.8	1.8
74-95-3	Dibromomethane	0.89	U	0.35	0.89	1.8	1.8
75-71-8	Dichlorodifluoromethane	1.8	U	0.89	1.8	3.5	3.5
100-41-4	Ethylbenzene	0.89	U	0.35	0.89	1.8	1.8
76-13-1	Freon 113	1.8	U	0.89	1.8	3.5	3.5
87-68-3	Hexachlorobutadiene	1.8	U	0.89	1.8	3.5	3.5

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1A

VOLATILE ORGANICS ANALYSIS

Sample Description

DF-DUP-1-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.78 (g/mL)	CTL Sample ID:	856731
% Solids:	83.2	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 05:51	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.355	J B	0.27	1.8	3.5	3.5
98-82-8	Isopropylbenzene	0.89	U	0.27	0.89	1.8	1.8
179601-23-1	m & p-Xylene	1.8	U	0.62	1.8	3.5	3.5
1634-04-4	Methyl tert-butyl ether	0.89	U	0.35	0.89	1.8	1.8
75-09-2	Methylene chloride	1.8	U	1.5	1.8	3.5	3.5
91-20-3	Naphthalene	1.8	U	0.89	1.8	3.5	3.5
104-51-8	n-Butylbenzene	1.8	U	0.80	1.8	3.5	3.5
103-65-1	n-Propylbenzene	1.8	U	0.80	1.8	3.5	3.5
95-47-6	o-Xylene	0.89	U	0.35	0.89	1.8	1.8
99-87-6	p-Isopropyltoluene	1.8	U	0.89	1.8	3.5	3.5
135-98-8	sec-Butylbenzene	1.8	U	0.80	1.8	3.5	3.5
100-42-5	Styrene	0.89	U	0.27	0.89	1.8	1.8
98-06-6	tert-Butylbenzene	1.8	U	0.80	1.8	3.5	3.5
127-18-4	Tetrachloroethene	0.89	U	0.35	0.89	1.8	1.8
108-88-3	Toluene	0.620	J	0.35	0.89	1.8	1.8
156-60-5	trans-1,2-Dichloroethene	0.89	U	0.35	0.89	1.8	1.8
10061-02-6	trans-1,3-Dichloropropene	0.89	U	0.35	0.89	1.8	1.8
79-01-6	Trichloroethene	0.89	U	0.27	0.89	1.8	1.8
75-69-4	Trichlorofluoromethane	0.89	U	0.44	0.89	1.8	1.8
108-05-4	Vinyl acetate	18	U	11	18	35	35
75-01-4	Vinyl chloride	0.89	U	0.44	0.89	1.8	1.8

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1A

VOLATILE ORGANICS ANALYSIS

Sample Description

DF-DUP-2-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	4.59 (g/mL)	CTL Sample ID:	856723
% Solids:	81.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 02:58	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U	0.40	1.3	2.7	2.7
71-55-6	1,1,1-Trichloroethane	1.3	U	0.40	1.3	2.7	2.7
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U	0.67	1.3	2.7	2.7
79-00-5	1,1,2-Trichloroethane	1.3	U	0.53	1.3	2.7	2.7
75-34-3	1,1-Dichloroethane	1.3	U	0.53	1.3	2.7	2.7
75-35-4	1,1-Dichloroethene	1.3	U	0.53	1.3	2.7	2.7
563-58-6	1,1-Dichloropropene	1.3	U	0.53	1.3	2.7	2.7
87-61-6	1,2,3-Trichlorobenzene	2.7	U	1.2	2.7	5.3	5.3
96-18-4	1,2,3-Trichloropropane	1.3	U	0.67	1.3	2.7	2.7
120-82-1	1,2,4-Trichlorobenzene	2.7	U	1.2	2.7	5.3	5.3
95-63-6	1,2,4-Trimethylbenzene	2.7	U	1.1	2.7	5.3	5.3
96-12-8	1,2-Dibromo-3-chloropropane	2.7	U	1.7	2.7	5.3	5.3
106-93-4	1,2-Dibromoethane	1.3	U	0.53	1.3	2.7	2.7
95-50-1	1,2-Dichlorobenzene	2.7	U	1.2	2.7	5.3	5.3
107-06-2	1,2-Dichloroethane	1.3	U	0.67	1.3	2.7	2.7
78-87-5	1,2-Dichloropropane	1.3	U	0.53	1.3	2.7	2.7
108-67-8	1,3,5-Trimethylbenzene	2.7	U	1.2	2.7	5.3	5.3
541-73-1	1,3-Dichlorobenzene	2.7	U	1.2	2.7	5.3	5.3
142-28-9	1,3-Dichloropropane	1.3	U	0.53	1.3	2.7	2.7
106-46-7	1,4-Dichlorobenzene	2.7	U	1.2	2.7	5.3	5.3
544-10-5	1-Chlorohexane	1.3	U	0.80	1.3	2.7	2.7
594-20-7	2,2-Dichloropropane	1.3	U	0.53	1.3	2.7	2.7
78-93-3	2-Butanone	16.0	J	13	27	53	53
95-49-8	2-Chlorotoluene	2.7	U	1.3	2.7	5.3	5.3

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-DUP-2-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	4.59 (g/mL)	CTL Sample ID:	856723
% Solids:	81.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 02:58	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	27	U	15	27	53	53
106-43-4	4-Chlorotoluene	2.7	U	1.2	2.7	5.3	5.3
108-10-1	4-Methyl-2-pentanone	27	U	13	27	53	53
67-64-1	Acetone	109		13	27	53	53
71-43-2	Benzene	1.3	U	0.40	1.3	2.7	2.7
108-86-1	Bromobenzene	1.3	U	0.67	1.3	2.7	2.7
74-97-5	Bromochloromethane	1.3	U	0.53	1.3	2.7	2.7
75-27-4	Bromodichloromethane	1.3	U	0.53	1.3	2.7	2.7
75-25-2	Bromoform	1.3	U	0.53	1.3	2.7	2.7
74-83-9	Bromomethane	2.7	U	0.93	2.7	5.3	5.3
75-15-0	Carbon disulfide	2.7	U	1.2	2.7	5.3	5.3
56-23-5	Carbon tetrachloride	1.3	U	0.40	1.3	2.7	2.7
108-90-7	Chlorobenzene	1.3	U	0.53	1.3	2.7	2.7
75-00-3	Chloroethane	1.3	U	0.67	1.3	2.7	2.7
67-66-3	Chloroform	1.3	U	0.53	1.3	2.7	2.7
74-87-3	Chloromethane	1.3	U	0.53	1.3	2.7	2.7
156-59-2	cis-1,2-Dichloroethene	1.3	U	0.53	1.3	2.7	2.7
10061-01-5	cis-1,3-Dichloropropene	1.3	U	0.40	1.3	2.7	2.7
124-48-1	Dibromochloromethane	1.3	U	0.53	1.3	2.7	2.7
74-95-3	Dibromomethane	1.3	U	0.53	1.3	2.7	2.7
75-71-8	Dichlorodifluoromethane	2.7	U	1.3	2.7	5.3	5.3
100-41-4	Ethylbenzene	1.3	U	0.53	1.3	2.7	2.7
76-13-1	Freon 113	2.7	U	1.3	2.7	5.3	5.3
87-68-3	Hexachlorobutadiene	2.7	U	1.3	2.7	5.3	5.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-DUP-2-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	4.59 (g/mL)	CTL Sample ID:	856723
% Solids:	81.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 02:58	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.800	J B	0.40	2.7	5.3	5.3
98-82-8	Isopropylbenzene	1.3	U	0.40	1.3	2.7	2.7
179601-23-1	m & p-Xylene	2.7	U	0.93	2.7	5.3	5.3
1634-04-4	Methyl tert-butyl ether	1.3	U	0.53	1.3	2.7	2.7
75-09-2	Methylene chloride	2.7	U	2.3	2.7	5.3	5.3
91-20-3	Naphthalene	2.7	U	1.3	2.7	5.3	5.3
104-51-8	n-Butylbenzene	2.7	U	1.2	2.7	5.3	5.3
103-65-1	n-Propylbenzene	2.7	U	1.2	2.7	5.3	5.3
95-47-6	o-Xylene	1.3	U	0.53	1.3	2.7	2.7
99-87-6	p-Isopropyltoluene	2.7	U	1.3	2.7	5.3	5.3
135-98-8	sec-Butylbenzene	2.7	U	1.2	2.7	5.3	5.3
100-42-5	Styrene	1.3	U	0.40	1.3	2.7	2.7
98-06-6	tert-Butylbenzene	2.7	U	1.2	2.7	5.3	5.3
127-18-4	Tetrachloroethene	1.3	U	0.53	1.3	2.7	2.7
108-88-3	Toluene	1.33	J	0.53	1.3	2.7	2.7
156-60-5	trans-1,2-Dichloroethene	1.3	U	0.53	1.3	2.7	2.7
10061-02-6	trans-1,3-Dichloropropene	1.3	U	0.53	1.3	2.7	2.7
79-01-6	Trichloroethene	1.3	U	0.40	1.3	2.7	2.7
75-69-4	Trichlorofluoromethane	1.3	U	0.67	1.3	2.7	2.7
108-05-4	Vinyl acetate	27	U	16	27	53	53
75-01-4	Vinyl chloride	1.3	U	0.67	1.3	2.7	2.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-RB-1-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	GROUND WATER	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856733
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 11:31	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.020	U	0.011	0.020	0.10	0.10
71-55-6	1,1,1-Trichloroethane	0.020	U	0.0090	0.020	0.10	0.10
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	0.017	0.050	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.050	U	0.015	0.050	0.10	0.10
75-34-3	1,1-Dichloroethane	0.050	U	0.021	0.050	0.10	0.10
75-35-4	1,1-Dichloroethene	0.10	U	0.040	0.10	0.20	0.20
563-58-6	1,1-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
87-61-6	1,2,3-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
96-18-4	1,2,3-Trichloropropane	0.050	U	0.027	0.050	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.050	U	0.029	0.050	0.10	0.10
96-12-8	1,2-Dibromo-3-chloropropane	0.10	U	0.070	0.10	0.20	0.20
106-93-4	1,2-Dibromoethane	0.050	U	0.015	0.050	0.10	0.10
95-50-1	1,2-Dichlorobenzene	0.050	U	0.025	0.050	0.10	0.10
107-06-2	1,2-Dichloroethane	0.050	U	0.015	0.050	0.10	0.10
78-87-5	1,2-Dichloropropane	0.020	U	0.012	0.020	0.10	0.10
108-67-8	1,3,5-Trimethylbenzene	0.050	U	0.024	0.050	0.10	0.10
541-73-1	1,3-Dichlorobenzene	0.050	U	0.030	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	0.030	0.050	0.10	0.10
544-10-5	1-Chlorohexane	0.10	U	0.040	0.10	0.20	0.20
594-20-7	2,2-Dichloropropane	0.050	U	0.019	0.050	0.10	0.10
78-93-3	2-Butanone	1.0	U	0.50	1.0	2.0	2.0
95-49-8	2-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-RB-1-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	GROUND WATER	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856733
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 11:31	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	0.20	U	0.12	0.20	1.0	1.0
106-43-4	4-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10
108-10-1	4-Methyl-2-pentanone	0.50	U	0.18	0.50	1.0	1.0
67-64-1	Acetone	1.6	J	0.90	1.0	2.0	2.0
71-43-2	Benzene	0.020	U	0.0080	0.020	0.10	0.10
108-86-1	Bromobenzene	0.050	U	0.026	0.050	0.10	0.10
74-97-5	Bromochloromethane	0.050	U	0.030	0.050	0.10	0.10
75-27-4	Bromodichloromethane	0.050	U	0.016	0.050	0.10	0.10
75-25-2	Bromoform	0.050	U	0.019	0.050	0.10	0.10
74-83-9	Bromomethane	0.10	U	0.038	0.10	0.20	0.20
75-15-0	Carbon disulfide	0.20	U	0.070	0.20	0.40	0.40
56-23-5	Carbon tetrachloride	0.050	U	0.018	0.050	0.10	0.10
108-90-7	Chlorobenzene	0.050	U	0.030	0.050	0.10	0.10
75-00-3	Chloroethane	0.10	U	0.070	0.10	0.20	0.20
67-66-3	Chloroform	0.020	U	0.010	0.020	0.10	0.10
74-87-3	Chloromethane	0.047	J B	0.026	0.050	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.050	U	0.022	0.050	0.10	0.10
10061-01-5	cis-1,3-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
124-48-1	Dibromochloromethane	0.050	U	0.018	0.050	0.10	0.10
74-95-3	Dibromomethane	0.020	U	0.010	0.020	0.10	0.10
75-71-8	Dichlorodifluoromethane	0.020	U	0.013	0.020	0.10	0.10
100-41-4	Ethylbenzene	0.050	U	0.027	0.050	0.10	0.10
76-13-1	Freon 113	0.10	U	0.050	0.10	0.20	0.20
87-68-3	Hexachlorobutadiene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-RB-1-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	GROUND WATER	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856733
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 11:31	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.20	U	0.080	0.20	0.40	0.40
98-82-8	Isopropylbenzene	0.050	U	0.026	0.050	0.10	0.10
179601-23-1	m & p-Xylene	0.10	U	0.060	0.10	0.20	0.20
1634-04-4	Methyl tert-butyl ether	0.050	U	0.025	0.050	0.10	0.10
75-09-2	Methylene chloride	0.71	J	0.060	0.20	1.0	1.0
91-20-3	Naphthalene	0.10	U	0.040	0.10	0.20	0.20
104-51-8	n-Butylbenzene	0.050	U	0.027	0.050	0.10	0.10
103-65-1	n-Propylbenzene	0.050	U	0.030	0.050	0.10	0.10
95-47-6	o-Xylene	0.050	U	0.026	0.050	0.10	0.10
99-87-6	p-Isopropyltoluene	0.050	U	0.025	0.050	0.10	0.10
135-98-8	sec-Butylbenzene	0.050	U	0.024	0.050	0.10	0.10
100-42-5	Styrene	0.050	U	0.024	0.050	0.10	0.10
98-06-6	tert-Butylbenzene	0.050	U	0.026	0.050	0.10	0.10
127-18-4	Tetrachloroethene	0.020	U	0.010	0.020	0.10	0.10
108-88-3	Toluene	0.52		0.011	0.020	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	0.050	U	0.026	0.050	0.10	0.10
10061-02-6	trans-1,3-Dichloropropene	0.050	U	0.014	0.050	0.10	0.10
79-01-6	Trichloroethene	0.050	U	0.020	0.050	0.10	0.10
75-69-4	Trichlorofluoromethane	0.050	U	0.022	0.050	0.20	0.20
108-05-4	Vinyl acetate	0.50	U	0.25	0.50	1.0	1.0
75-01-4	Vinyl chloride	0.050	U	0.019	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-RB-2-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	GROUND WATER	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856725
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 10:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.020	U	0.011	0.020	0.10	0.10
71-55-6	1,1,1-Trichloroethane	0.020	U	0.0090	0.020	0.10	0.10
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	0.017	0.050	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.050	U	0.015	0.050	0.10	0.10
75-34-3	1,1-Dichloroethane	0.050	U	0.021	0.050	0.10	0.10
75-35-4	1,1-Dichloroethene	0.10	U	0.040	0.10	0.20	0.20
563-58-6	1,1-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
87-61-6	1,2,3-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
96-18-4	1,2,3-Trichloropropane	0.050	U	0.027	0.050	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.050	U	0.029	0.050	0.10	0.10
96-12-8	1,2-Dibromo-3-chloropropane	0.10	U	0.070	0.10	0.20	0.20
106-93-4	1,2-Dibromoethane	0.050	U	0.015	0.050	0.10	0.10
95-50-1	1,2-Dichlorobenzene	0.050	U	0.025	0.050	0.10	0.10
107-06-2	1,2-Dichloroethane	0.050	U	0.015	0.050	0.10	0.10
78-87-5	1,2-Dichloropropane	0.020	U	0.012	0.020	0.10	0.10
108-67-8	1,3,5-Trimethylbenzene	0.050	U	0.024	0.050	0.10	0.10
541-73-1	1,3-Dichlorobenzene	0.050	U	0.030	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	0.030	0.050	0.10	0.10
544-10-5	1-Chlorohexane	0.10	U	0.040	0.10	0.20	0.20
594-20-7	2,2-Dichloropropane	0.050	U	0.019	0.050	0.10	0.10
78-93-3	2-Butanone	1.0	U	0.50	1.0	2.0	2.0
95-49-8	2-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-RB-2-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	GROUND WATER	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856725
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 10:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	0.20	U	0.12	0.20	1.0	1.0
106-43-4	4-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10
108-10-1	4-Methyl-2-pentanone	0.50	U	0.18	0.50	1.0	1.0
67-64-1	Acetone	1.9	J	0.90	1.0	2.0	2.0
71-43-2	Benzene	0.020	U	0.0080	0.020	0.10	0.10
108-86-1	Bromobenzene	0.050	U	0.026	0.050	0.10	0.10
74-97-5	Bromochloromethane	0.050	U	0.030	0.050	0.10	0.10
75-27-4	Bromodichloromethane	0.050	U	0.016	0.050	0.10	0.10
75-25-2	Bromoform	0.050	U	0.019	0.050	0.10	0.10
74-83-9	Bromomethane	0.10	U	0.038	0.10	0.20	0.20
75-15-0	Carbon disulfide	0.20	U	0.070	0.20	0.40	0.40
56-23-5	Carbon tetrachloride	0.050	U	0.018	0.050	0.10	0.10
108-90-7	Chlorobenzene	0.050	U	0.030	0.050	0.10	0.10
75-00-3	Chloroethane	0.10	U	0.070	0.10	0.20	0.20
67-66-3	Chloroform	0.020	U	0.010	0.020	0.10	0.10
74-87-3	Chloromethane	0.055	J B	0.026	0.050	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.050	U	0.022	0.050	0.10	0.10
10061-01-5	cis-1,3-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
124-48-1	Dibromochloromethane	0.050	U	0.018	0.050	0.10	0.10
74-95-3	Dibromomethane	0.020	U	0.010	0.020	0.10	0.10
75-71-8	Dichlorodifluoromethane	0.020	U	0.013	0.020	0.10	0.10
100-41-4	Ethylbenzene	0.050	U	0.027	0.050	0.10	0.10
76-13-1	Freon 113	0.10	U	0.050	0.10	0.20	0.20
87-68-3	Hexachlorobutadiene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-RB-2-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	GROUND WATER	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856725
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 10:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.20	U	0.080	0.20	0.40	0.40
98-82-8	Isopropylbenzene	0.050	U	0.026	0.050	0.10	0.10
179601-23-1	m & p-Xylene	0.10	U	0.060	0.10	0.20	0.20
1634-04-4	Methyl tert-butyl ether	0.050	U	0.025	0.050	0.10	0.10
75-09-2	Methylene chloride	0.49	J	0.060	0.20	1.0	1.0
91-20-3	Naphthalene	0.10	U	0.040	0.10	0.20	0.20
104-51-8	n-Butylbenzene	0.050	U	0.027	0.050	0.10	0.10
103-65-1	n-Propylbenzene	0.050	U	0.030	0.050	0.10	0.10
95-47-6	o-Xylene	0.027	J	0.026	0.050	0.10	0.10
99-87-6	p-Isopropyltoluene	0.050	U	0.025	0.050	0.10	0.10
135-98-8	sec-Butylbenzene	0.050	U	0.024	0.050	0.10	0.10
100-42-5	Styrene	0.050	U	0.024	0.050	0.10	0.10
98-06-6	tert-Butylbenzene	0.050	U	0.026	0.050	0.10	0.10
127-18-4	Tetrachloroethene	0.020	U	0.010	0.020	0.10	0.10
108-88-3	Toluene	0.39		0.011	0.020	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	0.050	U	0.026	0.050	0.10	0.10
10061-02-6	trans-1,3-Dichloropropene	0.050	U	0.014	0.050	0.10	0.10
79-01-6	Trichloroethene	0.050	U	0.020	0.050	0.10	0.10
75-69-4	Trichlorofluoromethane	0.050	U	0.022	0.050	0.20	0.20
108-05-4	Vinyl acetate	0.50	U	0.25	0.50	1.0	1.0
75-01-4	Vinyl chloride	0.050	U	0.019	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB58-11-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.46 (g/mL)	CTL Sample ID:	856734
% Solids:	77.3	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 06:20	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers		DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U		0.30	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	1.0	U		0.30	1.0	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	Y	0.50	1.0	2.0	2.0
79-00-5	1,1,2-Trichloroethane	1.0	U		0.40	1.0	2.0	2.0
75-34-3	1,1-Dichloroethane	1.0	U		0.40	1.0	2.0	2.0
75-35-4	1,1-Dichloroethene	1.0	U		0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	1.0	U		0.40	1.0	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	Y	0.90	2.0	4.0	4.0
96-18-4	1,2,3-Trichloropropane	1.0	U	Y	0.50	1.0	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	Y	0.90	2.0	4.0	4.0
95-63-6	1,2,4-Trimethylbenzene	2.0	U		0.80	2.0	4.0	4.0
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U		1.3	2.0	4.0	4.0
106-93-4	1,2-Dibromoethane	1.0	U	Y	0.40	1.0	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U		0.90	2.0	4.0	4.0
107-06-2	1,2-Dichloroethane	1.0	U		0.50	1.0	2.0	2.0
78-87-5	1,2-Dichloropropane	1.0	U		0.40	1.0	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U		0.90	2.0	4.0	4.0
541-73-1	1,3-Dichlorobenzene	2.0	U		0.90	2.0	4.0	4.0
142-28-9	1,3-Dichloropropane	1.0	U		0.40	1.0	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	Y	0.90	2.0	4.0	4.0
544-10-5	1-Chlorohexane	1.0	U		0.60	1.0	2.0	2.0
594-20-7	2,2-Dichloropropane	1.0	U		0.40	1.0	2.0	2.0
78-93-3	2-Butanone	20	U		10	20	40	40
95-49-8	2-Chlorotoluene	2.0	U		1.0	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB58-11-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.46 (g/mL)	CTL Sample ID:	856734
% Solids:	77.3	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 06:20	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	20	U Y	11	20	40	40
106-43-4	4-Chlorotoluene	2.0	U	0.90	2.0	4.0	4.0
108-10-1	4-Methyl-2-pentanone	20	U Y	10	20	40	40
67-64-1	Acetone	22.7	J	10	20	40	40
71-43-2	Benzene	1.0	U	0.30	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.50	1.0	2.0	2.0
74-97-5	Bromochloromethane	1.0	U	0.40	1.0	2.0	2.0
75-27-4	Bromodichloromethane	1.0	U	0.40	1.0	2.0	2.0
75-25-2	Bromoform	1.0	U Y	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.70	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.90	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	1.0	U	0.30	1.0	2.0	2.0
108-90-7	Chlorobenzene	1.0	U	0.40	1.0	2.0	2.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	1.0	U	0.40	1.0	2.0	2.0
74-87-3	Chloromethane	1.0	U	0.40	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.30	1.0	2.0	2.0
124-48-1	Dibromochloromethane	1.0	U	0.40	1.0	2.0	2.0
74-95-3	Dibromomethane	1.0	U	0.40	1.0	2.0	2.0
75-71-8	Dichlorodifluoromethane	2.0	U	1.0	2.0	4.0	4.0
100-41-4	Ethylbenzene	1.0	U	0.40	1.0	2.0	2.0
76-13-1	Freon 113	2.0	U	1.0	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	2.0	U Y	1.0	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB58-11-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.46 (g/mL)	CTL Sample ID:	856734
% Solids:	77.3	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 06:20	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.300	J B	0.30	2.0	4.0	4.0
98-82-8	Isopropylbenzene	1.0	U	0.30	1.0	2.0	2.0
179601-23-1	m & p-Xylene	2.0	U	0.70	2.0	4.0	4.0
1634-04-4	Methyl tert-butyl ether	1.0	U	0.40	1.0	2.0	2.0
75-09-2	Methylene chloride	2.0	U	1.7	2.0	4.0	4.0
91-20-3	Naphthalene	2.0	U M,Y	1.0	2.0	4.0	4.0
104-51-8	n-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
103-65-1	n-Propylbenzene	2.0	U	0.90	2.0	4.0	4.0
95-47-6	o-Xylene	1.0	U	0.40	1.0	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	1.0	2.0	4.0	4.0
135-98-8	sec-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
100-42-5	Styrene	1.0	U M,Y	0.30	1.0	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
127-18-4	Tetrachloroethene	1.0	U Y	0.40	1.0	2.0	2.0
108-88-3	Toluene	0.401	J	0.40	1.0	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.40	1.0	2.0	2.0
79-01-6	Trichloroethene	1.0	U	0.30	1.0	2.0	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.50	1.0	2.0	2.0
108-05-4	Vinyl acetate	20	U M,Y	12	20	40	40
75-01-4	Vinyl chloride	1.0	U	0.50	1.0	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB58-23-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.67 (g/mL)	CTL Sample ID:	856737
% Solids:	87.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 06:49	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.85	U	0.26	0.85	1.7	1.7
71-55-6	1,1,1-Trichloroethane	0.85	U	0.26	0.85	1.7	1.7
79-34-5	1,1,2,2-Tetrachloroethane	0.85	U	0.43	0.85	1.7	1.7
79-00-5	1,1,2-Trichloroethane	0.85	U	0.34	0.85	1.7	1.7
75-34-3	1,1-Dichloroethane	0.85	U	0.34	0.85	1.7	1.7
75-35-4	1,1-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
563-58-6	1,1-Dichloropropene	0.85	U	0.34	0.85	1.7	1.7
87-61-6	1,2,3-Trichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
96-18-4	1,2,3-Trichloropropane	0.85	U	0.43	0.85	1.7	1.7
120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
95-63-6	1,2,4-Trimethylbenzene	1.7	U	0.68	1.7	3.4	3.4
96-12-8	1,2-Dibromo-3-chloropropane	1.7	U	1.1	1.7	3.4	3.4
106-93-4	1,2-Dibromoethane	0.85	U	0.34	0.85	1.7	1.7
95-50-1	1,2-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
107-06-2	1,2-Dichloroethane	0.85	U	0.43	0.85	1.7	1.7
78-87-5	1,2-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
108-67-8	1,3,5-Trimethylbenzene	1.7	U	0.77	1.7	3.4	3.4
541-73-1	1,3-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
142-28-9	1,3-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
544-10-5	1-Chlorohexane	0.85	U	0.51	0.85	1.7	1.7
594-20-7	2,2-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
78-93-3	2-Butanone	17	U	8.5	17	34	34
95-49-8	2-Chlorotoluene	1.7	U	0.85	1.7	3.4	3.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB58-23-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.67 (g/mL)	CTL Sample ID:	856737
% Solids:	87.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 06:49	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	17	U	9.4	17	34	34
106-43-4	4-Chlorotoluene	1.7	U	0.77	1.7	3.4	3.4
108-10-1	4-Methyl-2-pentanone	17	U	8.5	17	34	34
67-64-1	Acetone	16.2	J	8.5	17	34	34
71-43-2	Benzene	0.85	U	0.26	0.85	1.7	1.7
108-86-1	Bromobenzene	0.85	U	0.43	0.85	1.7	1.7
74-97-5	Bromochloromethane	0.85	U	0.34	0.85	1.7	1.7
75-27-4	Bromodichloromethane	0.85	U	0.34	0.85	1.7	1.7
75-25-2	Bromoform	0.85	U	0.34	0.85	1.7	1.7
74-83-9	Bromomethane	1.7	U	0.60	1.7	3.4	3.4
75-15-0	Carbon disulfide	1.7	U	0.77	1.7	3.4	3.4
56-23-5	Carbon tetrachloride	0.85	U	0.26	0.85	1.7	1.7
108-90-7	Chlorobenzene	0.85	U	0.34	0.85	1.7	1.7
75-00-3	Chloroethane	0.85	U	0.43	0.85	1.7	1.7
67-66-3	Chloroform	0.85	U	0.34	0.85	1.7	1.7
74-87-3	Chloromethane	0.85	U	0.34	0.85	1.7	1.7
156-59-2	cis-1,2-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
10061-01-5	cis-1,3-Dichloropropene	0.85	U	0.26	0.85	1.7	1.7
124-48-1	Dibromochloromethane	0.85	U	0.34	0.85	1.7	1.7
74-95-3	Dibromomethane	0.85	U	0.34	0.85	1.7	1.7
75-71-8	Dichlorodifluoromethane	1.7	U	0.85	1.7	3.4	3.4
100-41-4	Ethylbenzene	0.85	U	0.34	0.85	1.7	1.7
76-13-1	Freon 113	1.7	U	0.85	1.7	3.4	3.4
87-68-3	Hexachlorobutadiene	1.7	U	0.85	1.7	3.4	3.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB58-23-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.67 (g/mL)	CTL Sample ID:	856737
% Solids:	87.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 06:49	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.7	U	0.26	1.7	3.4	3.4
98-82-8	Isopropylbenzene	0.85	U	0.26	0.85	1.7	1.7
179601-23-1	m & p-Xylene	1.7	U	0.60	1.7	3.4	3.4
1634-04-4	Methyl tert-butyl ether	0.85	U	0.34	0.85	1.7	1.7
75-09-2	Methylene chloride	1.7	U	1.5	1.7	3.4	3.4
91-20-3	Naphthalene	1.7	U	0.85	1.7	3.4	3.4
104-51-8	n-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
103-65-1	n-Propylbenzene	1.7	U	0.77	1.7	3.4	3.4
95-47-6	o-Xylene	0.85	U	0.34	0.85	1.7	1.7
99-87-6	p-Isopropyltoluene	1.7	U	0.85	1.7	3.4	3.4
135-98-8	sec-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
100-42-5	Styrene	0.85	U	0.26	0.85	1.7	1.7
98-06-6	tert-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
127-18-4	Tetrachloroethene	0.85	U	0.34	0.85	1.7	1.7
108-88-3	Toluene	1.11	J	0.34	0.85	1.7	1.7
156-60-5	trans-1,2-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
10061-02-6	trans-1,3-Dichloropropene	0.85	U	0.34	0.85	1.7	1.7
79-01-6	Trichloroethene	0.85	U	0.26	0.85	1.7	1.7
75-69-4	Trichlorofluoromethane	0.85	U	0.43	0.85	1.7	1.7
108-05-4	Vinyl acetate	17	U	10	17	34	34
75-01-4	Vinyl chloride	0.85	U	0.43	0.85	1.7	1.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB59-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.24 (g/mL)	CTL Sample ID:	856713
% Solids:	82.2	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/27/2017 / 23:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.97	U	0.29	0.97	1.9	1.9
71-55-6	1,1,1-Trichloroethane	0.97	U	0.29	0.97	1.9	1.9
79-34-5	1,1,2,2-Tetrachloroethane	0.97	U	0.49	0.97	1.9	1.9
79-00-5	1,1,2-Trichloroethane	0.97	U	0.39	0.97	1.9	1.9
75-34-3	1,1-Dichloroethane	0.97	U	0.39	0.97	1.9	1.9
75-35-4	1,1-Dichloroethene	0.97	U	0.39	0.97	1.9	1.9
563-58-6	1,1-Dichloropropene	0.97	U	0.39	0.97	1.9	1.9
87-61-6	1,2,3-Trichlorobenzene	1.9	U	0.88	1.9	3.9	3.9
96-18-4	1,2,3-Trichloropropane	0.97	U	0.49	0.97	1.9	1.9
120-82-1	1,2,4-Trichlorobenzene	1.9	U	0.88	1.9	3.9	3.9
95-63-6	1,2,4-Trimethylbenzene	1.9	U	0.78	1.9	3.9	3.9
96-12-8	1,2-Dibromo-3-chloropropane	1.9	U	1.3	1.9	3.9	3.9
106-93-4	1,2-Dibromoethane	0.97	U	0.39	0.97	1.9	1.9
95-50-1	1,2-Dichlorobenzene	1.9	U	0.88	1.9	3.9	3.9
107-06-2	1,2-Dichloroethane	0.97	U	0.49	0.97	1.9	1.9
78-87-5	1,2-Dichloropropane	0.97	U	0.39	0.97	1.9	1.9
108-67-8	1,3,5-Trimethylbenzene	1.9	U	0.88	1.9	3.9	3.9
541-73-1	1,3-Dichlorobenzene	1.9	U	0.88	1.9	3.9	3.9
142-28-9	1,3-Dichloropropane	0.97	U	0.39	0.97	1.9	1.9
106-46-7	1,4-Dichlorobenzene	1.9	U	0.88	1.9	3.9	3.9
544-10-5	1-Chlorohexane	0.97	U	0.58	0.97	1.9	1.9
594-20-7	2,2-Dichloropropane	0.97	U	0.39	0.97	1.9	1.9
78-93-3	2-Butanone	19	U	9.7	19	39	39
95-49-8	2-Chlorotoluene	1.9	U	0.97	1.9	3.9	3.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB59-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.24 (g/mL)	CTL Sample ID:	856713
% Solids:	82.2	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/27/2017 / 23:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	19	U	11	19	39	39
106-43-4	4-Chlorotoluene	1.9	U	0.88	1.9	3.9	3.9
108-10-1	4-Methyl-2-pentanone	19	U	9.7	19	39	39
67-64-1	Acetone	17.7	J	9.7	19	39	39
71-43-2	Benzene	0.97	U	0.29	0.97	1.9	1.9
108-86-1	Bromobenzene	0.97	U	0.49	0.97	1.9	1.9
74-97-5	Bromochloromethane	0.97	U	0.39	0.97	1.9	1.9
75-27-4	Bromodichloromethane	0.97	U	0.39	0.97	1.9	1.9
75-25-2	Bromoform	0.97	U	0.39	0.97	1.9	1.9
74-83-9	Bromomethane	1.9	U	0.68	1.9	3.9	3.9
75-15-0	Carbon disulfide	1.9	U	0.88	1.9	3.9	3.9
56-23-5	Carbon tetrachloride	0.97	U	0.29	0.97	1.9	1.9
108-90-7	Chlorobenzene	0.97	U	0.39	0.97	1.9	1.9
75-00-3	Chloroethane	0.97	U	0.49	0.97	1.9	1.9
67-66-3	Chloroform	0.97	U	0.39	0.97	1.9	1.9
74-87-3	Chloromethane	0.97	U	0.39	0.97	1.9	1.9
156-59-2	cis-1,2-Dichloroethene	0.97	U	0.39	0.97	1.9	1.9
10061-01-5	cis-1,3-Dichloropropene	0.97	U	0.29	0.97	1.9	1.9
124-48-1	Dibromochloromethane	0.97	U	0.39	0.97	1.9	1.9
74-95-3	Dibromomethane	0.97	U	0.39	0.97	1.9	1.9
75-71-8	Dichlorodifluoromethane	2.14	J	0.97	1.9	3.9	3.9
100-41-4	Ethylbenzene	0.97	U	0.39	0.97	1.9	1.9
76-13-1	Freon 113	1.9	U	0.97	1.9	3.9	3.9
87-68-3	Hexachlorobutadiene	1.9	U	0.97	1.9	3.9	3.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB59-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.24 (g/mL)	CTL Sample ID:	856713
% Solids:	82.2	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/27/2017 / 23:06	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.487	J B	0.29	1.9	3.9	3.9
98-82-8	Isopropylbenzene	0.97	U	0.29	0.97	1.9	1.9
179601-23-1	m & p-Xylene	1.9	U	0.68	1.9	3.9	3.9
1634-04-4	Methyl tert-butyl ether	0.97	U	0.39	0.97	1.9	1.9
75-09-2	Methylene chloride	1.9	U	1.7	1.9	3.9	3.9
91-20-3	Naphthalene	1.9	U	0.97	1.9	3.9	3.9
104-51-8	n-Butylbenzene	1.9	U	0.88	1.9	3.9	3.9
103-65-1	n-Propylbenzene	1.9	U	0.88	1.9	3.9	3.9
95-47-6	o-Xylene	0.97	U	0.39	0.97	1.9	1.9
99-87-6	p-Isopropyltoluene	1.9	U	0.97	1.9	3.9	3.9
135-98-8	sec-Butylbenzene	1.9	U	0.88	1.9	3.9	3.9
100-42-5	Styrene	0.97	U	0.29	0.97	1.9	1.9
98-06-6	tert-Butylbenzene	1.9	U	0.88	1.9	3.9	3.9
127-18-4	Tetrachloroethene	0.97	U	0.39	0.97	1.9	1.9
108-88-3	Toluene	0.97	U	0.39	0.97	1.9	1.9
156-60-5	trans-1,2-Dichloroethene	0.97	U	0.39	0.97	1.9	1.9
10061-02-6	trans-1,3-Dichloropropene	0.97	U	0.39	0.97	1.9	1.9
79-01-6	Trichloroethene	0.97	U	0.29	0.97	1.9	1.9
75-69-4	Trichlorofluoromethane	0.97	U	0.49	0.97	1.9	1.9
108-05-4	Vinyl acetate	19	U	12	19	39	39
75-01-4	Vinyl chloride	0.97	U	0.49	0.97	1.9	1.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB59-20-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.15 (g/mL)	CTL Sample ID:	856716
% Solids:	81.9	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/27/2017 / 23:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.99	U	0.30	0.99	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.99	U	0.30	0.99	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.99	U	0.50	0.99	2.0	2.0
79-00-5	1,1,2-Trichloroethane	0.99	U	0.40	0.99	2.0	2.0
75-34-3	1,1-Dichloroethane	0.99	U	0.40	0.99	2.0	2.0
75-35-4	1,1-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
563-58-6	1,1-Dichloropropene	0.99	U	0.40	0.99	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
96-18-4	1,2,3-Trichloropropane	0.99	U	0.50	0.99	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.79	2.0	4.0	4.0
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	4.0	4.0
106-93-4	1,2-Dibromoethane	0.99	U	0.40	0.99	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
107-06-2	1,2-Dichloroethane	0.99	U	0.50	0.99	2.0	2.0
78-87-5	1,2-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.89	2.0	4.0	4.0
541-73-1	1,3-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
142-28-9	1,3-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
544-10-5	1-Chlorohexane	0.99	U	0.60	0.99	2.0	2.0
594-20-7	2,2-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
78-93-3	2-Butanone	20	U	9.9	20	40	40
95-49-8	2-Chlorotoluene	2.0	U	0.99	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB59-20-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.15 (g/mL)	CTL Sample ID:	856716
% Solids:	81.9	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/27/2017 / 23:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	20	U	11	20	40	40
106-43-4	4-Chlorotoluene	2.0	U	0.89	2.0	4.0	4.0
108-10-1	4-Methyl-2-pentanone	20	U	9.9	20	40	40
67-64-1	Acetone	13.2	J	9.9	20	40	40
71-43-2	Benzene	0.99	U	0.30	0.99	2.0	2.0
108-86-1	Bromobenzene	0.99	U	0.50	0.99	2.0	2.0
74-97-5	Bromochloromethane	0.99	U	0.40	0.99	2.0	2.0
75-27-4	Bromodichloromethane	0.99	U	0.40	0.99	2.0	2.0
75-25-2	Bromoform	0.99	U	0.40	0.99	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.69	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.89	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.99	U	0.30	0.99	2.0	2.0
108-90-7	Chlorobenzene	0.99	U	0.40	0.99	2.0	2.0
75-00-3	Chloroethane	0.99	U	0.50	0.99	2.0	2.0
67-66-3	Chloroform	0.99	U	0.40	0.99	2.0	2.0
74-87-3	Chloromethane	0.99	U	0.40	0.99	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	0.99	U	0.30	0.99	2.0	2.0
124-48-1	Dibromochloromethane	0.99	U	0.40	0.99	2.0	2.0
74-95-3	Dibromomethane	0.99	U	0.40	0.99	2.0	2.0
75-71-8	Dichlorodifluoromethane	1.19	J	0.99	2.0	4.0	4.0
100-41-4	Ethylbenzene	0.99	U	0.40	0.99	2.0	2.0
76-13-1	Freon 113	2.0	U	0.99	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	2.0	U	0.99	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB59-20-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.15 (g/mL)	CTL Sample ID:	856716
% Solids:	81.9	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/27/2017 / 23:35	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.397	J B	0.30	2.0	4.0	4.0
98-82-8	Isopropylbenzene	0.99	U	0.30	0.99	2.0	2.0
179601-23-1	m & p-Xylene	2.0	U	0.69	2.0	4.0	4.0
1634-04-4	Methyl tert-butyl ether	0.99	U	0.40	0.99	2.0	2.0
75-09-2	Methylene chloride	2.0	U	1.7	2.0	4.0	4.0
91-20-3	Naphthalene	2.0	U	0.99	2.0	4.0	4.0
104-51-8	n-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
103-65-1	n-Propylbenzene	2.0	U	0.89	2.0	4.0	4.0
95-47-6	o-Xylene	0.99	U	0.40	0.99	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	0.99	2.0	4.0	4.0
135-98-8	sec-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
100-42-5	Styrene	0.99	U	0.30	0.99	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
127-18-4	Tetrachloroethene	0.99	U	0.40	0.99	2.0	2.0
108-88-3	Toluene	0.695	J	0.40	0.99	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	0.99	U	0.40	0.99	2.0	2.0
79-01-6	Trichloroethene	0.99	U	0.30	0.99	2.0	2.0
75-69-4	Trichlorofluoromethane	0.99	U	0.50	0.99	2.0	2.0
108-05-4	Vinyl acetate	20	U	12	20	40	40
75-01-4	Vinyl chloride	0.99	U	0.50	0.99	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB60-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.84 (g/mL)	CTL Sample ID:	856729
% Solids:	83.3	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 04:53	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.88	U	0.26	0.88	1.8	1.8
71-55-6	1,1,1-Trichloroethane	0.88	U	0.26	0.88	1.8	1.8
79-34-5	1,1,2,2-Tetrachloroethane	0.88	U	0.44	0.88	1.8	1.8
79-00-5	1,1,2-Trichloroethane	0.88	U	0.35	0.88	1.8	1.8
75-34-3	1,1-Dichloroethane	0.88	U	0.35	0.88	1.8	1.8
75-35-4	1,1-Dichloroethene	0.88	U	0.35	0.88	1.8	1.8
563-58-6	1,1-Dichloropropene	0.88	U	0.35	0.88	1.8	1.8
87-61-6	1,2,3-Trichlorobenzene	1.8	U	0.79	1.8	3.5	3.5
96-18-4	1,2,3-Trichloropropane	0.88	U	0.44	0.88	1.8	1.8
120-82-1	1,2,4-Trichlorobenzene	1.8	U	0.79	1.8	3.5	3.5
95-63-6	1,2,4-Trimethylbenzene	1.8	U	0.70	1.8	3.5	3.5
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U	1.1	1.8	3.5	3.5
106-93-4	1,2-Dibromoethane	0.88	U	0.35	0.88	1.8	1.8
95-50-1	1,2-Dichlorobenzene	1.8	U	0.79	1.8	3.5	3.5
107-06-2	1,2-Dichloroethane	0.88	U	0.44	0.88	1.8	1.8
78-87-5	1,2-Dichloropropane	0.88	U	0.35	0.88	1.8	1.8
108-67-8	1,3,5-Trimethylbenzene	1.8	U	0.79	1.8	3.5	3.5
541-73-1	1,3-Dichlorobenzene	1.8	U	0.79	1.8	3.5	3.5
142-28-9	1,3-Dichloropropane	0.88	U	0.35	0.88	1.8	1.8
106-46-7	1,4-Dichlorobenzene	1.8	U	0.79	1.8	3.5	3.5
544-10-5	1-Chlorohexane	0.88	U	0.53	0.88	1.8	1.8
594-20-7	2,2-Dichloropropane	0.88	U	0.35	0.88	1.8	1.8
78-93-3	2-Butanone	18	U	8.8	18	35	35
95-49-8	2-Chlorotoluene	1.8	U	0.88	1.8	3.5	3.5

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB60-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.84 (g/mL)	CTL Sample ID:	856729
% Solids:	83.3	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 04:53	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	18	U	9.7	18	35	35
106-43-4	4-Chlorotoluene	1.8	U	0.79	1.8	3.5	3.5
108-10-1	4-Methyl-2-pentanone	18	U	8.8	18	35	35
67-64-1	Acetone	20.8	J	8.8	18	35	35
71-43-2	Benzene	0.88	U	0.26	0.88	1.8	1.8
108-86-1	Bromobenzene	0.88	U	0.44	0.88	1.8	1.8
74-97-5	Bromochloromethane	0.88	U	0.35	0.88	1.8	1.8
75-27-4	Bromodichloromethane	0.88	U	0.35	0.88	1.8	1.8
75-25-2	Bromoform	0.88	U	0.35	0.88	1.8	1.8
74-83-9	Bromomethane	1.8	U	0.61	1.8	3.5	3.5
75-15-0	Carbon disulfide	1.8	U	0.79	1.8	3.5	3.5
56-23-5	Carbon tetrachloride	0.88	U	0.26	0.88	1.8	1.8
108-90-7	Chlorobenzene	0.88	U	0.35	0.88	1.8	1.8
75-00-3	Chloroethane	0.88	U	0.44	0.88	1.8	1.8
67-66-3	Chloroform	0.88	U	0.35	0.88	1.8	1.8
74-87-3	Chloromethane	0.88	U	0.35	0.88	1.8	1.8
156-59-2	cis-1,2-Dichloroethene	0.88	U	0.35	0.88	1.8	1.8
10061-01-5	cis-1,3-Dichloropropene	0.88	U	0.26	0.88	1.8	1.8
124-48-1	Dibromochloromethane	0.88	U	0.35	0.88	1.8	1.8
74-95-3	Dibromomethane	0.88	U	0.35	0.88	1.8	1.8
75-71-8	Dichlorodifluoromethane	1.8	U	0.88	1.8	3.5	3.5
100-41-4	Ethylbenzene	0.88	U	0.35	0.88	1.8	1.8
76-13-1	Freon 113	1.8	U	0.88	1.8	3.5	3.5
87-68-3	Hexachlorobutadiene	1.8	U	0.88	1.8	3.5	3.5

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB60-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.84 (g/mL)	CTL Sample ID:	856729
% Solids:	83.3	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 04:53	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.263	J B	0.26	1.8	3.5	3.5
98-82-8	Isopropylbenzene	0.88	U	0.26	0.88	1.8	1.8
179601-23-1	m & p-Xylene	1.8	U	0.61	1.8	3.5	3.5
1634-04-4	Methyl tert-butyl ether	0.88	U	0.35	0.88	1.8	1.8
75-09-2	Methylene chloride	1.8	U	1.5	1.8	3.5	3.5
91-20-3	Naphthalene	1.8	U	0.88	1.8	3.5	3.5
104-51-8	n-Butylbenzene	1.8	U	0.79	1.8	3.5	3.5
103-65-1	n-Propylbenzene	1.8	U	0.79	1.8	3.5	3.5
95-47-6	o-Xylene	0.88	U	0.35	0.88	1.8	1.8
99-87-6	p-Isopropyltoluene	1.8	U	0.88	1.8	3.5	3.5
135-98-8	sec-Butylbenzene	1.8	U	0.79	1.8	3.5	3.5
100-42-5	Styrene	0.88	U	0.26	0.88	1.8	1.8
98-06-6	tert-Butylbenzene	1.8	U	0.79	1.8	3.5	3.5
127-18-4	Tetrachloroethene	0.88	U	0.35	0.88	1.8	1.8
108-88-3	Toluene	0.439	J	0.35	0.88	1.8	1.8
156-60-5	trans-1,2-Dichloroethene	0.88	U	0.35	0.88	1.8	1.8
10061-02-6	trans-1,3-Dichloropropene	0.88	U	0.35	0.88	1.8	1.8
79-01-6	Trichloroethene	0.88	U	0.26	0.88	1.8	1.8
75-69-4	Trichlorofluoromethane	0.88	U	0.44	0.88	1.8	1.8
108-05-4	Vinyl acetate	18	U	11	18	35	35
75-01-4	Vinyl chloride	0.88	U	0.44	0.88	1.8	1.8

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB60-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.84 (g/mL)	CTL Sample ID:	856730
% Solids:	89.4	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 05:22	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.82	U	0.25	0.82	1.6	1.6
71-55-6	1,1,1-Trichloroethane	0.82	U	0.25	0.82	1.6	1.6
79-34-5	1,1,2,2-Tetrachloroethane	0.82	U	0.41	0.82	1.6	1.6
79-00-5	1,1,2-Trichloroethane	0.82	U	0.33	0.82	1.6	1.6
75-34-3	1,1-Dichloroethane	0.82	U	0.33	0.82	1.6	1.6
75-35-4	1,1-Dichloroethene	0.82	U	0.33	0.82	1.6	1.6
563-58-6	1,1-Dichloropropene	0.82	U	0.33	0.82	1.6	1.6
87-61-6	1,2,3-Trichlorobenzene	1.6	U	0.74	1.6	3.3	3.3
96-18-4	1,2,3-Trichloropropane	0.82	U	0.41	0.82	1.6	1.6
120-82-1	1,2,4-Trichlorobenzene	1.6	U	0.74	1.6	3.3	3.3
95-63-6	1,2,4-Trimethylbenzene	1.6	U	0.65	1.6	3.3	3.3
96-12-8	1,2-Dibromo-3-chloropropane	1.6	U	1.1	1.6	3.3	3.3
106-93-4	1,2-Dibromoethane	0.82	U	0.33	0.82	1.6	1.6
95-50-1	1,2-Dichlorobenzene	1.6	U	0.74	1.6	3.3	3.3
107-06-2	1,2-Dichloroethane	0.82	U	0.41	0.82	1.6	1.6
78-87-5	1,2-Dichloropropane	0.82	U	0.33	0.82	1.6	1.6
108-67-8	1,3,5-Trimethylbenzene	1.6	U	0.74	1.6	3.3	3.3
541-73-1	1,3-Dichlorobenzene	1.6	U	0.74	1.6	3.3	3.3
142-28-9	1,3-Dichloropropane	0.82	U	0.33	0.82	1.6	1.6
106-46-7	1,4-Dichlorobenzene	1.6	U	0.74	1.6	3.3	3.3
544-10-5	1-Chlorohexane	0.82	U	0.49	0.82	1.6	1.6
594-20-7	2,2-Dichloropropane	0.82	U	0.33	0.82	1.6	1.6
78-93-3	2-Butanone	16	U	8.2	16	33	33
95-49-8	2-Chlorotoluene	1.6	U	0.82	1.6	3.3	3.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB60-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.84 (g/mL)	CTL Sample ID:	856730
% Solids:	89.4	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 05:22	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	16	U	9.0	16	33	33
106-43-4	4-Chlorotoluene	1.6	U	0.74	1.6	3.3	3.3
108-10-1	4-Methyl-2-pentanone	16	U	8.2	16	33	33
67-64-1	Acetone	9.57	J	8.2	16	33	33
71-43-2	Benzene	0.82	U	0.25	0.82	1.6	1.6
108-86-1	Bromobenzene	0.82	U	0.41	0.82	1.6	1.6
74-97-5	Bromochloromethane	0.82	U	0.33	0.82	1.6	1.6
75-27-4	Bromodichloromethane	0.82	U	0.33	0.82	1.6	1.6
75-25-2	Bromoform	0.82	U	0.33	0.82	1.6	1.6
74-83-9	Bromomethane	1.6	U	0.57	1.6	3.3	3.3
75-15-0	Carbon disulfide	1.6	U	0.74	1.6	3.3	3.3
56-23-5	Carbon tetrachloride	0.82	U	0.25	0.82	1.6	1.6
108-90-7	Chlorobenzene	0.82	U	0.33	0.82	1.6	1.6
75-00-3	Chloroethane	0.82	U	0.41	0.82	1.6	1.6
67-66-3	Chloroform	0.82	U	0.33	0.82	1.6	1.6
74-87-3	Chloromethane	0.82	U	0.33	0.82	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	0.82	U	0.33	0.82	1.6	1.6
10061-01-5	cis-1,3-Dichloropropene	0.82	U	0.25	0.82	1.6	1.6
124-48-1	Dibromochloromethane	0.82	U	0.33	0.82	1.6	1.6
74-95-3	Dibromomethane	0.82	U	0.33	0.82	1.6	1.6
75-71-8	Dichlorodifluoromethane	1.6	U	0.82	1.6	3.3	3.3
100-41-4	Ethylbenzene	0.82	U	0.33	0.82	1.6	1.6
76-13-1	Freon 113	1.6	U	0.82	1.6	3.3	3.3
87-68-3	Hexachlorobutadiene	1.6	U	0.82	1.6	3.3	3.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB60-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.84 (g/mL)	CTL Sample ID:	856730
% Solids:	89.4	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 05:22	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.327	J B	0.25	1.6	3.3	3.3
98-82-8	Isopropylbenzene	0.82	U	0.25	0.82	1.6	1.6
179601-23-1	m & p-Xylene	1.6	U	0.57	1.6	3.3	3.3
1634-04-4	Methyl tert-butyl ether	0.82	U	0.33	0.82	1.6	1.6
75-09-2	Methylene chloride	1.6	U	1.4	1.6	3.3	3.3
91-20-3	Naphthalene	1.6	U	0.82	1.6	3.3	3.3
104-51-8	n-Butylbenzene	1.6	U	0.74	1.6	3.3	3.3
103-65-1	n-Propylbenzene	1.6	U	0.74	1.6	3.3	3.3
95-47-6	o-Xylene	0.82	U	0.33	0.82	1.6	1.6
99-87-6	p-Isopropyltoluene	1.6	U	0.82	1.6	3.3	3.3
135-98-8	sec-Butylbenzene	1.6	U	0.74	1.6	3.3	3.3
100-42-5	Styrene	0.82	U	0.25	0.82	1.6	1.6
98-06-6	tert-Butylbenzene	1.6	U	0.74	1.6	3.3	3.3
127-18-4	Tetrachloroethene	0.82	U	0.33	0.82	1.6	1.6
108-88-3	Toluene	1.55	J	0.33	0.82	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.33	0.82	1.6	1.6
10061-02-6	trans-1,3-Dichloropropene	0.82	U	0.33	0.82	1.6	1.6
79-01-6	Trichloroethene	0.82	U	0.25	0.82	1.6	1.6
75-69-4	Trichlorofluoromethane	0.82	U	0.41	0.82	1.6	1.6
108-05-4	Vinyl acetate	16	U	9.8	16	33	33
75-01-4	Vinyl chloride	0.82	U	0.41	0.82	1.6	1.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB61-13-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.08 (g/mL)	CTL Sample ID:	856727
% Solids:	81.8	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 03:55	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	1.0	U	0.30	1.0	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	2.0	2.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.40	1.0	2.0	2.0
75-34-3	1,1-Dichloroethane	1.0	U	0.40	1.0	2.0	2.0
75-35-4	1,1-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	1.0	U	0.40	1.0	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
96-18-4	1,2,3-Trichloropropane	1.0	U	0.50	1.0	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.80	2.0	4.0	4.0
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	4.0	4.0
106-93-4	1,2-Dibromoethane	1.0	U	0.40	1.0	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
107-06-2	1,2-Dichloroethane	1.0	U	0.50	1.0	2.0	2.0
78-87-5	1,2-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.90	2.0	4.0	4.0
541-73-1	1,3-Dichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
142-28-9	1,3-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.90	2.0	4.0	4.0
544-10-5	1-Chlorohexane	1.0	U	0.60	1.0	2.0	2.0
594-20-7	2,2-Dichloropropane	1.0	U	0.40	1.0	2.0	2.0
78-93-3	2-Butanone	20	U	10	20	40	40
95-49-8	2-Chlorotoluene	2.0	U	1.0	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB61-13-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.08 (g/mL)	CTL Sample ID:	856727
% Solids:	81.8	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 03:55	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	20	U	11	20	40	40
106-43-4	4-Chlorotoluene	2.0	U	0.90	2.0	4.0	4.0
108-10-1	4-Methyl-2-pentanone	20	U	10	20	40	40
67-64-1	Acetone	23.6	J	10	20	40	40
71-43-2	Benzene	1.0	U	0.30	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.50	1.0	2.0	2.0
74-97-5	Bromochloromethane	1.0	U	0.40	1.0	2.0	2.0
75-27-4	Bromodichloromethane	1.0	U	0.40	1.0	2.0	2.0
75-25-2	Bromoform	1.0	U	0.40	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.70	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.90	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	1.0	U	0.30	1.0	2.0	2.0
108-90-7	Chlorobenzene	1.0	U	0.40	1.0	2.0	2.0
75-00-3	Chloroethane	1.0	U	0.50	1.0	2.0	2.0
67-66-3	Chloroform	1.0	U	0.40	1.0	2.0	2.0
74-87-3	Chloromethane	1.0	U	0.40	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.30	1.0	2.0	2.0
124-48-1	Dibromochloromethane	1.0	U	0.40	1.0	2.0	2.0
74-95-3	Dibromomethane	1.0	U	0.40	1.0	2.0	2.0
75-71-8	Dichlorodifluoromethane	2.0	U	1.0	2.0	4.0	4.0
100-41-4	Ethylbenzene	1.0	U	0.40	1.0	2.0	2.0
76-13-1	Freon 113	2.0	U	1.0	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	2.0	U	1.0	2.0	4.0	4.0

CT LABORATORIES
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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB61-13-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.08 (g/mL)	CTL Sample ID:	856727
% Solids:	81.8	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 03:55	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.804	J B	0.30	2.0	4.0	4.0
98-82-8	Isopropylbenzene	1.0	U	0.30	1.0	2.0	2.0
179601-23-1	m & p-Xylene	2.0	U	0.70	2.0	4.0	4.0
1634-04-4	Methyl tert-butyl ether	1.0	U	0.40	1.0	2.0	2.0
75-09-2	Methylene chloride	2.0	U	1.7	2.0	4.0	4.0
91-20-3	Naphthalene	2.0	U	1.0	2.0	4.0	4.0
104-51-8	n-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
103-65-1	n-Propylbenzene	2.0	U	0.90	2.0	4.0	4.0
95-47-6	o-Xylene	1.0	U	0.40	1.0	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	1.0	2.0	4.0	4.0
135-98-8	sec-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
100-42-5	Styrene	1.0	U	0.30	1.0	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.90	2.0	4.0	4.0
127-18-4	Tetrachloroethene	1.0	U	0.40	1.0	2.0	2.0
108-88-3	Toluene	1.0	U	0.40	1.0	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.40	1.0	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.40	1.0	2.0	2.0
79-01-6	Trichloroethene	1.0	U	0.30	1.0	2.0	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.50	1.0	2.0	2.0
108-05-4	Vinyl acetate	20	U	12	20	40	40
75-01-4	Vinyl chloride	1.0	U	0.50	1.0	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB61-20-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.72 (g/mL)	CTL Sample ID:	856728
% Solids:	87.3	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 04:24	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.85	U	0.26	0.85	1.7	1.7
71-55-6	1,1,1-Trichloroethane	0.85	U	0.26	0.85	1.7	1.7
79-34-5	1,1,2,2-Tetrachloroethane	0.85	U	0.43	0.85	1.7	1.7
79-00-5	1,1,2-Trichloroethane	0.85	U	0.34	0.85	1.7	1.7
75-34-3	1,1-Dichloroethane	0.85	U	0.34	0.85	1.7	1.7
75-35-4	1,1-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
563-58-6	1,1-Dichloropropene	0.85	U	0.34	0.85	1.7	1.7
87-61-6	1,2,3-Trichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
96-18-4	1,2,3-Trichloropropane	0.85	U	0.43	0.85	1.7	1.7
120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
95-63-6	1,2,4-Trimethylbenzene	1.7	U	0.68	1.7	3.4	3.4
96-12-8	1,2-Dibromo-3-chloropropane	1.7	U	1.1	1.7	3.4	3.4
106-93-4	1,2-Dibromoethane	0.85	U	0.34	0.85	1.7	1.7
95-50-1	1,2-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
107-06-2	1,2-Dichloroethane	0.85	U	0.43	0.85	1.7	1.7
78-87-5	1,2-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
108-67-8	1,3,5-Trimethylbenzene	1.7	U	0.77	1.7	3.4	3.4
541-73-1	1,3-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
142-28-9	1,3-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
544-10-5	1-Chlorohexane	0.85	U	0.51	0.85	1.7	1.7
594-20-7	2,2-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
78-93-3	2-Butanone	17	U	8.5	17	34	34
95-49-8	2-Chlorotoluene	1.7	U	0.85	1.7	3.4	3.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB61-20-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.72 (g/mL)	CTL Sample ID:	856728
% Solids:	87.3	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 04:24	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	17	U	9.4	17	34	34
106-43-4	4-Chlorotoluene	1.7	U	0.77	1.7	3.4	3.4
108-10-1	4-Methyl-2-pentanone	17	U	8.5	17	34	34
67-64-1	Acetone	17	U	8.5	17	34	34
71-43-2	Benzene	0.85	U	0.26	0.85	1.7	1.7
108-86-1	Bromobenzene	0.85	U	0.43	0.85	1.7	1.7
74-97-5	Bromochloromethane	0.85	U	0.34	0.85	1.7	1.7
75-27-4	Bromodichloromethane	0.85	U	0.34	0.85	1.7	1.7
75-25-2	Bromoform	0.85	U	0.34	0.85	1.7	1.7
74-83-9	Bromomethane	1.7	U	0.60	1.7	3.4	3.4
75-15-0	Carbon disulfide	1.7	U	0.77	1.7	3.4	3.4
56-23-5	Carbon tetrachloride	0.85	U	0.26	0.85	1.7	1.7
108-90-7	Chlorobenzene	0.85	U	0.34	0.85	1.7	1.7
75-00-3	Chloroethane	0.85	U	0.43	0.85	1.7	1.7
67-66-3	Chloroform	0.85	U	0.34	0.85	1.7	1.7
74-87-3	Chloromethane	0.85	U	0.34	0.85	1.7	1.7
156-59-2	cis-1,2-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
10061-01-5	cis-1,3-Dichloropropene	0.85	U	0.26	0.85	1.7	1.7
124-48-1	Dibromochloromethane	0.85	U	0.34	0.85	1.7	1.7
74-95-3	Dibromomethane	0.85	U	0.34	0.85	1.7	1.7
75-71-8	Dichlorodifluoromethane	1.7	U	0.85	1.7	3.4	3.4
100-41-4	Ethylbenzene	0.85	U	0.34	0.85	1.7	1.7
76-13-1	Freon 113	1.7	U	0.85	1.7	3.4	3.4
87-68-3	Hexachlorobutadiene	1.7	U	0.85	1.7	3.4	3.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB61-20-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.72 (g/mL)	CTL Sample ID:	856728
% Solids:	87.3	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 04:24	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.7	U B	0.26	1.7	3.4	3.4
98-82-8	Isopropylbenzene	0.85	U	0.26	0.85	1.7	1.7
179601-23-1	m & p-Xylene	1.7	U	0.60	1.7	3.4	3.4
1634-04-4	Methyl tert-butyl ether	0.85	U	0.34	0.85	1.7	1.7
75-09-2	Methylene chloride	1.7	U	1.4	1.7	3.4	3.4
91-20-3	Naphthalene	1.7	U	0.85	1.7	3.4	3.4
104-51-8	n-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
103-65-1	n-Propylbenzene	1.7	U	0.77	1.7	3.4	3.4
95-47-6	o-Xylene	0.85	U	0.34	0.85	1.7	1.7
99-87-6	p-Isopropyltoluene	1.7	U	0.85	1.7	3.4	3.4
135-98-8	sec-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
100-42-5	Styrene	0.85	U	0.26	0.85	1.7	1.7
98-06-6	tert-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
127-18-4	Tetrachloroethene	0.85	U	0.34	0.85	1.7	1.7
108-88-3	Toluene	0.597	J	0.34	0.85	1.7	1.7
156-60-5	trans-1,2-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
10061-02-6	trans-1,3-Dichloropropene	0.85	U	0.34	0.85	1.7	1.7
79-01-6	Trichloroethene	0.85	U	0.26	0.85	1.7	1.7
75-69-4	Trichlorofluoromethane	0.85	U	0.43	0.85	1.7	1.7
108-05-4	Vinyl acetate	17	U	10	17	34	34
75-01-4	Vinyl chloride	0.85	U	0.43	0.85	1.7	1.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB62-10-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.32 (g/mL)	CTL Sample ID:	856717
% Solids:	81.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 00:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.97	U	0.29	0.97	1.9	1.9
71-55-6	1,1,1-Trichloroethane	0.97	U	0.29	0.97	1.9	1.9
79-34-5	1,1,2,2-Tetrachloroethane	0.97	U	0.48	0.97	1.9	1.9
79-00-5	1,1,2-Trichloroethane	0.97	U	0.39	0.97	1.9	1.9
75-34-3	1,1-Dichloroethane	0.97	U	0.39	0.97	1.9	1.9
75-35-4	1,1-Dichloroethene	0.97	U	0.39	0.97	1.9	1.9
563-58-6	1,1-Dichloropropene	0.97	U	0.39	0.97	1.9	1.9
87-61-6	1,2,3-Trichlorobenzene	1.9	U	0.87	1.9	3.9	3.9
96-18-4	1,2,3-Trichloropropane	0.97	U	0.48	0.97	1.9	1.9
120-82-1	1,2,4-Trichlorobenzene	1.9	U	0.87	1.9	3.9	3.9
95-63-6	1,2,4-Trimethylbenzene	1.9	U	0.77	1.9	3.9	3.9
96-12-8	1,2-Dibromo-3-chloropropane	1.9	U	1.3	1.9	3.9	3.9
106-93-4	1,2-Dibromoethane	0.97	U	0.39	0.97	1.9	1.9
95-50-1	1,2-Dichlorobenzene	1.9	U	0.87	1.9	3.9	3.9
107-06-2	1,2-Dichloroethane	0.97	U	0.48	0.97	1.9	1.9
78-87-5	1,2-Dichloropropane	0.97	U	0.39	0.97	1.9	1.9
108-67-8	1,3,5-Trimethylbenzene	1.9	U	0.87	1.9	3.9	3.9
541-73-1	1,3-Dichlorobenzene	1.9	U	0.87	1.9	3.9	3.9
142-28-9	1,3-Dichloropropane	0.97	U	0.39	0.97	1.9	1.9
106-46-7	1,4-Dichlorobenzene	1.9	U	0.87	1.9	3.9	3.9
544-10-5	1-Chlorohexane	0.97	U	0.58	0.97	1.9	1.9
594-20-7	2,2-Dichloropropane	0.97	U	0.39	0.97	1.9	1.9
78-93-3	2-Butanone	19	U	9.7	19	39	39
95-49-8	2-Chlorotoluene	1.9	U	0.97	1.9	3.9	3.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB62-10-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.32 (g/mL)	CTL Sample ID:	856717
% Solids:	81.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 00:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	19	U	11	19	39	39
106-43-4	4-Chlorotoluene	1.9	U	0.87	1.9	3.9	3.9
108-10-1	4-Methyl-2-pentanone	19	U	9.7	19	39	39
67-64-1	Acetone	30.3	J	9.7	19	39	39
71-43-2	Benzene	0.97	U	0.29	0.97	1.9	1.9
108-86-1	Bromobenzene	0.97	U	0.48	0.97	1.9	1.9
74-97-5	Bromochloromethane	0.97	U	0.39	0.97	1.9	1.9
75-27-4	Bromodichloromethane	0.97	U	0.39	0.97	1.9	1.9
75-25-2	Bromoform	0.97	U	0.39	0.97	1.9	1.9
74-83-9	Bromomethane	1.9	U	0.68	1.9	3.9	3.9
75-15-0	Carbon disulfide	1.9	U	0.87	1.9	3.9	3.9
56-23-5	Carbon tetrachloride	0.97	U	0.29	0.97	1.9	1.9
108-90-7	Chlorobenzene	0.97	U	0.39	0.97	1.9	1.9
75-00-3	Chloroethane	0.97	U	0.48	0.97	1.9	1.9
67-66-3	Chloroform	0.97	U	0.39	0.97	1.9	1.9
74-87-3	Chloromethane	0.97	U	0.39	0.97	1.9	1.9
156-59-2	cis-1,2-Dichloroethene	0.97	U	0.39	0.97	1.9	1.9
10061-01-5	cis-1,3-Dichloropropene	0.97	U	0.29	0.97	1.9	1.9
124-48-1	Dibromochloromethane	0.97	U	0.39	0.97	1.9	1.9
74-95-3	Dibromomethane	0.97	U	0.39	0.97	1.9	1.9
75-71-8	Dichlorodifluoromethane	1.07	J	0.97	1.9	3.9	3.9
100-41-4	Ethylbenzene	0.97	U	0.39	0.97	1.9	1.9
76-13-1	Freon 113	1.9	U	0.97	1.9	3.9	3.9
87-68-3	Hexachlorobutadiene	1.9	U	0.97	1.9	3.9	3.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB62-10-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.32 (g/mL)	CTL Sample ID:	856717
% Solids:	81.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 00:04	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.775	J B	0.29	1.9	3.9	3.9
98-82-8	Isopropylbenzene	0.97	U	0.29	0.97	1.9	1.9
179601-23-1	m & p-Xylene	1.9	U	0.68	1.9	3.9	3.9
1634-04-4	Methyl tert-butyl ether	0.97	U	0.39	0.97	1.9	1.9
75-09-2	Methylene chloride	1.9	U	1.6	1.9	3.9	3.9
91-20-3	Naphthalene	1.9	U	0.97	1.9	3.9	3.9
104-51-8	n-Butylbenzene	1.9	U	0.87	1.9	3.9	3.9
103-65-1	n-Propylbenzene	1.9	U	0.87	1.9	3.9	3.9
95-47-6	o-Xylene	0.97	U	0.39	0.97	1.9	1.9
99-87-6	p-Isopropyltoluene	1.9	U	0.97	1.9	3.9	3.9
135-98-8	sec-Butylbenzene	1.9	U	0.87	1.9	3.9	3.9
100-42-5	Styrene	0.97	U	0.29	0.97	1.9	1.9
98-06-6	tert-Butylbenzene	1.9	U	0.87	1.9	3.9	3.9
127-18-4	Tetrachloroethene	0.97	U	0.39	0.97	1.9	1.9
108-88-3	Toluene	1.65	J	0.39	0.97	1.9	1.9
156-60-5	trans-1,2-Dichloroethene	0.97	U	0.39	0.97	1.9	1.9
10061-02-6	trans-1,3-Dichloropropene	0.97	U	0.39	0.97	1.9	1.9
79-01-6	Trichloroethene	0.97	U	0.29	0.97	1.9	1.9
75-69-4	Trichlorofluoromethane	0.97	U	0.48	0.97	1.9	1.9
108-05-4	Vinyl acetate	19	U	12	19	39	39
75-01-4	Vinyl chloride	0.97	U	0.48	0.97	1.9	1.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB62-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.53 (g/mL)	CTL Sample ID:	856718
% Solids:	89.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 00:33	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.85	U	0.26	0.85	1.7	1.7
71-55-6	1,1,1-Trichloroethane	0.85	U	0.26	0.85	1.7	1.7
79-34-5	1,1,2,2-Tetrachloroethane	0.85	U	0.43	0.85	1.7	1.7
79-00-5	1,1,2-Trichloroethane	0.85	U	0.34	0.85	1.7	1.7
75-34-3	1,1-Dichloroethane	0.85	U	0.34	0.85	1.7	1.7
75-35-4	1,1-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
563-58-6	1,1-Dichloropropene	0.85	U	0.34	0.85	1.7	1.7
87-61-6	1,2,3-Trichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
96-18-4	1,2,3-Trichloropropane	0.85	U	0.43	0.85	1.7	1.7
120-82-1	1,2,4-Trichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
95-63-6	1,2,4-Trimethylbenzene	1.7	U	0.68	1.7	3.4	3.4
96-12-8	1,2-Dibromo-3-chloropropane	1.7	U	1.1	1.7	3.4	3.4
106-93-4	1,2-Dibromoethane	0.85	U	0.34	0.85	1.7	1.7
95-50-1	1,2-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
107-06-2	1,2-Dichloroethane	0.85	U	0.43	0.85	1.7	1.7
78-87-5	1,2-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
108-67-8	1,3,5-Trimethylbenzene	1.7	U	0.77	1.7	3.4	3.4
541-73-1	1,3-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
142-28-9	1,3-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	0.77	1.7	3.4	3.4
544-10-5	1-Chlorohexane	0.85	U	0.51	0.85	1.7	1.7
594-20-7	2,2-Dichloropropane	0.85	U	0.34	0.85	1.7	1.7
78-93-3	2-Butanone	17	U	8.5	17	34	34
95-49-8	2-Chlorotoluene	1.7	U	0.85	1.7	3.4	3.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB62-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.53 (g/mL)	CTL Sample ID:	856718
% Solids:	89.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 00:33	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	17	U	9.4	17	34	34
106-43-4	4-Chlorotoluene	1.7	U	0.77	1.7	3.4	3.4
108-10-1	4-Methyl-2-pentanone	17	U	8.5	17	34	34
67-64-1	Acetone	10.2	J	8.5	17	34	34
71-43-2	Benzene	0.85	U	0.26	0.85	1.7	1.7
108-86-1	Bromobenzene	0.85	U	0.43	0.85	1.7	1.7
74-97-5	Bromochloromethane	0.85	U	0.34	0.85	1.7	1.7
75-27-4	Bromodichloromethane	0.85	U	0.34	0.85	1.7	1.7
75-25-2	Bromoform	0.85	U	0.34	0.85	1.7	1.7
74-83-9	Bromomethane	1.7	U	0.60	1.7	3.4	3.4
75-15-0	Carbon disulfide	1.7	U	0.77	1.7	3.4	3.4
56-23-5	Carbon tetrachloride	0.85	U	0.26	0.85	1.7	1.7
108-90-7	Chlorobenzene	0.85	U	0.34	0.85	1.7	1.7
75-00-3	Chloroethane	0.85	U	0.43	0.85	1.7	1.7
67-66-3	Chloroform	0.85	U	0.34	0.85	1.7	1.7
74-87-3	Chloromethane	0.85	U	0.34	0.85	1.7	1.7
156-59-2	cis-1,2-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
10061-01-5	cis-1,3-Dichloropropene	0.85	U	0.26	0.85	1.7	1.7
124-48-1	Dibromochloromethane	0.85	U	0.34	0.85	1.7	1.7
74-95-3	Dibromomethane	0.85	U	0.34	0.85	1.7	1.7
75-71-8	Dichlorodifluoromethane	1.02	J	0.85	1.7	3.4	3.4
100-41-4	Ethylbenzene	0.85	U	0.34	0.85	1.7	1.7
76-13-1	Freon 113	1.7	U	0.85	1.7	3.4	3.4
87-68-3	Hexachlorobutadiene	1.7	U	0.85	1.7	3.4	3.4

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB62-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.53 (g/mL)	CTL Sample ID:	856718
% Solids:	89.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 00:33	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.341	J B	0.26	1.7	3.4	3.4
98-82-8	Isopropylbenzene	0.85	U	0.26	0.85	1.7	1.7
179601-23-1	m & p-Xylene	1.7	U	0.60	1.7	3.4	3.4
1634-04-4	Methyl tert-butyl ether	0.85	U	0.34	0.85	1.7	1.7
75-09-2	Methylene chloride	1.7	U	1.5	1.7	3.4	3.4
91-20-3	Naphthalene	1.7	U	0.85	1.7	3.4	3.4
104-51-8	n-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
103-65-1	n-Propylbenzene	1.7	U	0.77	1.7	3.4	3.4
95-47-6	o-Xylene	0.85	U	0.34	0.85	1.7	1.7
99-87-6	p-Isopropyltoluene	1.7	U	0.85	1.7	3.4	3.4
135-98-8	sec-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
100-42-5	Styrene	0.85	U	0.26	0.85	1.7	1.7
98-06-6	tert-Butylbenzene	1.7	U	0.77	1.7	3.4	3.4
127-18-4	Tetrachloroethene	0.85	U	0.34	0.85	1.7	1.7
108-88-3	Toluene	0.854	J	0.34	0.85	1.7	1.7
156-60-5	trans-1,2-Dichloroethene	0.85	U	0.34	0.85	1.7	1.7
10061-02-6	trans-1,3-Dichloropropene	0.85	U	0.34	0.85	1.7	1.7
79-01-6	Trichloroethene	0.85	U	0.26	0.85	1.7	1.7
75-69-4	Trichlorofluoromethane	0.85	U	0.43	0.85	1.7	1.7
108-05-4	Vinyl acetate	17	U	10	17	34	34
75-01-4	Vinyl chloride	0.85	U	0.43	0.85	1.7	1.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB63-15-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.40 (g/mL)	CTL Sample ID:	856720
% Solids:	87.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 01:31	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.89	U	0.27	0.89	1.8	1.8
71-55-6	1,1,1-Trichloroethane	0.89	U	0.27	0.89	1.8	1.8
79-34-5	1,1,2,2-Tetrachloroethane	0.89	U	0.45	0.89	1.8	1.8
79-00-5	1,1,2-Trichloroethane	0.89	U	0.36	0.89	1.8	1.8
75-34-3	1,1-Dichloroethane	0.89	U	0.36	0.89	1.8	1.8
75-35-4	1,1-Dichloroethene	0.89	U	0.36	0.89	1.8	1.8
563-58-6	1,1-Dichloropropene	0.89	U	0.36	0.89	1.8	1.8
87-61-6	1,2,3-Trichlorobenzene	1.8	U	0.80	1.8	3.6	3.6
96-18-4	1,2,3-Trichloropropane	0.89	U	0.45	0.89	1.8	1.8
120-82-1	1,2,4-Trichlorobenzene	1.8	U	0.80	1.8	3.6	3.6
95-63-6	1,2,4-Trimethylbenzene	1.8	U	0.71	1.8	3.6	3.6
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U	1.2	1.8	3.6	3.6
106-93-4	1,2-Dibromoethane	0.89	U	0.36	0.89	1.8	1.8
95-50-1	1,2-Dichlorobenzene	1.8	U	0.80	1.8	3.6	3.6
107-06-2	1,2-Dichloroethane	0.89	U	0.45	0.89	1.8	1.8
78-87-5	1,2-Dichloropropane	0.89	U	0.36	0.89	1.8	1.8
108-67-8	1,3,5-Trimethylbenzene	1.8	U	0.80	1.8	3.6	3.6
541-73-1	1,3-Dichlorobenzene	1.8	U	0.80	1.8	3.6	3.6
142-28-9	1,3-Dichloropropane	0.89	U	0.36	0.89	1.8	1.8
106-46-7	1,4-Dichlorobenzene	1.8	U	0.80	1.8	3.6	3.6
544-10-5	1-Chlorohexane	0.89	U	0.53	0.89	1.8	1.8
594-20-7	2,2-Dichloropropane	0.89	U	0.36	0.89	1.8	1.8
78-93-3	2-Butanone	18	U	8.9	18	36	36
95-49-8	2-Chlorotoluene	1.8	U	0.89	1.8	3.6	3.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB63-15-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.40 (g/mL)	CTL Sample ID:	856720
% Solids:	87.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 01:31	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	18	U	9.8	18	36	36
106-43-4	4-Chlorotoluene	1.8	U	0.80	1.8	3.6	3.6
108-10-1	4-Methyl-2-pentanone	18	U	8.9	18	36	36
67-64-1	Acetone	31.4	J	8.9	18	36	36
71-43-2	Benzene	0.89	U	0.27	0.89	1.8	1.8
108-86-1	Bromobenzene	0.89	U	0.45	0.89	1.8	1.8
74-97-5	Bromochloromethane	0.89	U	0.36	0.89	1.8	1.8
75-27-4	Bromodichloromethane	0.89	U	0.36	0.89	1.8	1.8
75-25-2	Bromoform	0.89	U	0.36	0.89	1.8	1.8
74-83-9	Bromomethane	1.8	U	0.62	1.8	3.6	3.6
75-15-0	Carbon disulfide	1.8	U	0.80	1.8	3.6	3.6
56-23-5	Carbon tetrachloride	0.89	U	0.27	0.89	1.8	1.8
108-90-7	Chlorobenzene	0.89	U	0.36	0.89	1.8	1.8
75-00-3	Chloroethane	0.89	U	0.45	0.89	1.8	1.8
67-66-3	Chloroform	0.89	U	0.36	0.89	1.8	1.8
74-87-3	Chloromethane	0.89	U	0.36	0.89	1.8	1.8
156-59-2	cis-1,2-Dichloroethene	0.89	U	0.36	0.89	1.8	1.8
10061-01-5	cis-1,3-Dichloropropene	0.89	U	0.27	0.89	1.8	1.8
124-48-1	Dibromochloromethane	0.89	U	0.36	0.89	1.8	1.8
74-95-3	Dibromomethane	0.89	U	0.36	0.89	1.8	1.8
75-71-8	Dichlorodifluoromethane	1.8	U	0.89	1.8	3.6	3.6
100-41-4	Ethylbenzene	0.89	U	0.36	0.89	1.8	1.8
76-13-1	Freon 113	1.8	U	0.89	1.8	3.6	3.6
87-68-3	Hexachlorobutadiene	1.8	U	0.89	1.8	3.6	3.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB63-15-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.40 (g/mL)	CTL Sample ID:	856720
% Solids:	87.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 01:31	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.624	J B	0.27	1.8	3.6	3.6
98-82-8	Isopropylbenzene	0.89	U	0.27	0.89	1.8	1.8
179601-23-1	m & p-Xylene	1.8	U	0.62	1.8	3.6	3.6
1634-04-4	Methyl tert-butyl ether	0.89	U	0.36	0.89	1.8	1.8
75-09-2	Methylene chloride	1.8	U	1.5	1.8	3.6	3.6
91-20-3	Naphthalene	1.8	U	0.89	1.8	3.6	3.6
104-51-8	n-Butylbenzene	1.8	U	0.80	1.8	3.6	3.6
103-65-1	n-Propylbenzene	1.8	U	0.80	1.8	3.6	3.6
95-47-6	o-Xylene	0.89	U	0.36	0.89	1.8	1.8
99-87-6	p-Isopropyltoluene	1.8	U	0.89	1.8	3.6	3.6
135-98-8	sec-Butylbenzene	1.8	U	0.80	1.8	3.6	3.6
100-42-5	Styrene	0.89	U	0.27	0.89	1.8	1.8
98-06-6	tert-Butylbenzene	1.8	U	0.80	1.8	3.6	3.6
127-18-4	Tetrachloroethene	0.89	U	0.36	0.89	1.8	1.8
108-88-3	Toluene	0.624	J	0.36	0.89	1.8	1.8
156-60-5	trans-1,2-Dichloroethene	0.89	U	0.36	0.89	1.8	1.8
10061-02-6	trans-1,3-Dichloropropene	0.89	U	0.36	0.89	1.8	1.8
79-01-6	Trichloroethene	0.89	U	0.27	0.89	1.8	1.8
75-69-4	Trichlorofluoromethane	0.89	U	0.45	0.89	1.8	1.8
108-05-4	Vinyl acetate	18	U	11	18	36	36
75-01-4	Vinyl chloride	0.89	U	0.45	0.89	1.8	1.8

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB63-7-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.48 (g/mL)	CTL Sample ID:	856719
% Solids:	79.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 01:02	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.97	U	0.29	0.97	1.9	1.9
71-55-6	1,1,1-Trichloroethane	0.97	U	0.29	0.97	1.9	1.9
79-34-5	1,1,2,2-Tetrachloroethane	0.97	U	0.48	0.97	1.9	1.9
79-00-5	1,1,2-Trichloroethane	0.97	U	0.39	0.97	1.9	1.9
75-34-3	1,1-Dichloroethane	0.97	U	0.39	0.97	1.9	1.9
75-35-4	1,1-Dichloroethene	0.97	U	0.39	0.97	1.9	1.9
563-58-6	1,1-Dichloropropene	0.97	U	0.39	0.97	1.9	1.9
87-61-6	1,2,3-Trichlorobenzene	1.9	U	0.87	1.9	3.9	3.9
96-18-4	1,2,3-Trichloropropane	0.97	U	0.48	0.97	1.9	1.9
120-82-1	1,2,4-Trichlorobenzene	1.9	U	0.87	1.9	3.9	3.9
95-63-6	1,2,4-Trimethylbenzene	1.9	U	0.77	1.9	3.9	3.9
96-12-8	1,2-Dibromo-3-chloropropane	1.9	U	1.3	1.9	3.9	3.9
106-93-4	1,2-Dibromoethane	0.97	U	0.39	0.97	1.9	1.9
95-50-1	1,2-Dichlorobenzene	1.9	U	0.87	1.9	3.9	3.9
107-06-2	1,2-Dichloroethane	0.97	U	0.48	0.97	1.9	1.9
78-87-5	1,2-Dichloropropane	0.97	U	0.39	0.97	1.9	1.9
108-67-8	1,3,5-Trimethylbenzene	1.9	U	0.87	1.9	3.9	3.9
541-73-1	1,3-Dichlorobenzene	1.9	U	0.87	1.9	3.9	3.9
142-28-9	1,3-Dichloropropane	0.97	U	0.39	0.97	1.9	1.9
106-46-7	1,4-Dichlorobenzene	1.9	U	0.87	1.9	3.9	3.9
544-10-5	1-Chlorohexane	0.97	U	0.58	0.97	1.9	1.9
594-20-7	2,2-Dichloropropane	0.97	U	0.39	0.97	1.9	1.9
78-93-3	2-Butanone	19	U	9.7	19	39	39
95-49-8	2-Chlorotoluene	1.9	U	0.97	1.9	3.9	3.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB63-7-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.48 (g/mL)	CTL Sample ID:	856719
% Solids:	79.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 01:02	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	19	U	11	19	39	39
106-43-4	4-Chlorotoluene	1.9	U	0.87	1.9	3.9	3.9
108-10-1	4-Methyl-2-pentanone	19	U	9.7	19	39	39
67-64-1	Acetone	27.9	J	9.7	19	39	39
71-43-2	Benzene	0.97	U	0.29	0.97	1.9	1.9
108-86-1	Bromobenzene	0.97	U	0.48	0.97	1.9	1.9
74-97-5	Bromochloromethane	0.97	U	0.39	0.97	1.9	1.9
75-27-4	Bromodichloromethane	0.97	U	0.39	0.97	1.9	1.9
75-25-2	Bromoform	0.97	U	0.39	0.97	1.9	1.9
74-83-9	Bromomethane	1.9	U	0.68	1.9	3.9	3.9
75-15-0	Carbon disulfide	1.9	U	0.87	1.9	3.9	3.9
56-23-5	Carbon tetrachloride	0.97	U	0.29	0.97	1.9	1.9
108-90-7	Chlorobenzene	0.97	U	0.39	0.97	1.9	1.9
75-00-3	Chloroethane	0.97	U	0.48	0.97	1.9	1.9
67-66-3	Chloroform	0.97	U	0.39	0.97	1.9	1.9
74-87-3	Chloromethane	0.97	U	0.39	0.97	1.9	1.9
156-59-2	cis-1,2-Dichloroethene	0.97	U	0.39	0.97	1.9	1.9
10061-01-5	cis-1,3-Dichloropropene	0.97	U	0.29	0.97	1.9	1.9
124-48-1	Dibromochloromethane	0.97	U	0.39	0.97	1.9	1.9
74-95-3	Dibromomethane	0.97	U	0.39	0.97	1.9	1.9
75-71-8	Dichlorodifluoromethane	1.16	J	0.97	1.9	3.9	3.9
100-41-4	Ethylbenzene	0.97	U	0.39	0.97	1.9	1.9
76-13-1	Freon 113	1.9	U	0.97	1.9	3.9	3.9
87-68-3	Hexachlorobutadiene	1.9	U	0.97	1.9	3.9	3.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB63-7-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.48 (g/mL)	CTL Sample ID:	856719
% Solids:	79.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 01:02	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.387	J B	0.29	1.9	3.9	3.9
98-82-8	Isopropylbenzene	0.97	U	0.29	0.97	1.9	1.9
179601-23-1	m & p-Xylene	1.9	U	0.68	1.9	3.9	3.9
1634-04-4	Methyl tert-butyl ether	0.97	U	0.39	0.97	1.9	1.9
75-09-2	Methylene chloride	1.9	U	1.6	1.9	3.9	3.9
91-20-3	Naphthalene	1.9	U	0.97	1.9	3.9	3.9
104-51-8	n-Butylbenzene	1.9	U	0.87	1.9	3.9	3.9
103-65-1	n-Propylbenzene	1.9	U	0.87	1.9	3.9	3.9
95-47-6	o-Xylene	0.97	U	0.39	0.97	1.9	1.9
99-87-6	p-Isopropyltoluene	1.9	U	0.97	1.9	3.9	3.9
135-98-8	sec-Butylbenzene	1.9	U	0.87	1.9	3.9	3.9
100-42-5	Styrene	0.97	U	0.29	0.97	1.9	1.9
98-06-6	tert-Butylbenzene	1.9	U	0.87	1.9	3.9	3.9
127-18-4	Tetrachloroethene	0.97	U	0.39	0.97	1.9	1.9
108-88-3	Toluene	0.871	J	0.39	0.97	1.9	1.9
156-60-5	trans-1,2-Dichloroethene	0.97	U	0.39	0.97	1.9	1.9
10061-02-6	trans-1,3-Dichloropropene	0.97	U	0.39	0.97	1.9	1.9
79-01-6	Trichloroethene	0.97	U	0.29	0.97	1.9	1.9
75-69-4	Trichlorofluoromethane	0.97	U	0.48	0.97	1.9	1.9
108-05-4	Vinyl acetate	19	U	12	19	39	39
75-01-4	Vinyl chloride	0.97	U	0.48	0.97	1.9	1.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB64-13-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.64 (g/mL)	CTL Sample ID:	856742
% Solids:	84.0	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 12:37	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.32	1.1	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.1	U	0.32	1.1	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.53	1.1	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-34-3	1,1-Dichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-35-4	1,1-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
563-58-6	1,1-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
96-18-4	1,2,3-Trichloropropane	1.1	U	0.53	1.1	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.84	2.1	4.2	4.2
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.4	2.1	4.2	4.2
106-93-4	1,2-Dibromoethane	1.1	U	0.42	1.1	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
107-06-2	1,2-Dichloroethane	1.1	U	0.53	1.1	2.1	2.1
78-87-5	1,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.95	2.1	4.2	4.2
541-73-1	1,3-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
142-28-9	1,3-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
544-10-5	1-Chlorohexane	1.1	U	0.63	1.1	2.1	2.1
594-20-7	2,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
78-93-3	2-Butanone	21	U	11	21	42	42
95-49-8	2-Chlorotoluene	2.1	U	1.1	2.1	4.2	4.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB64-13-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.64 (g/mL)	CTL Sample ID:	856742
% Solids:	84.0	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 12:37	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	21	U	12	21	42	42
106-43-4	4-Chlorotoluene	2.1	U	0.95	2.1	4.2	4.2
108-10-1	4-Methyl-2-pentanone	21	U	11	21	42	42
67-64-1	Acetone	31.0	J	11	21	42	42
71-43-2	Benzene	1.1	U	0.32	1.1	2.1	2.1
108-86-1	Bromobenzene	1.1	U	0.53	1.1	2.1	2.1
74-97-5	Bromochloromethane	1.1	U	0.42	1.1	2.1	2.1
75-27-4	Bromodichloromethane	1.1	U	0.42	1.1	2.1	2.1
75-25-2	Bromoform	1.1	U	0.42	1.1	2.1	2.1
74-83-9	Bromomethane	2.1	U	0.74	2.1	4.2	4.2
75-15-0	Carbon disulfide	2.1	U	0.95	2.1	4.2	4.2
56-23-5	Carbon tetrachloride	1.1	U	0.32	1.1	2.1	2.1
108-90-7	Chlorobenzene	1.1	U	0.42	1.1	2.1	2.1
75-00-3	Chloroethane	1.1	U	0.53	1.1	2.1	2.1
67-66-3	Chloroform	1.1	U	0.42	1.1	2.1	2.1
74-87-3	Chloromethane	1.1	U	0.42	1.1	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.32	1.1	2.1	2.1
124-48-1	Dibromochloromethane	1.1	U	0.42	1.1	2.1	2.1
74-95-3	Dibromomethane	1.1	U	0.42	1.1	2.1	2.1
75-71-8	Dichlorodifluoromethane	1.37	J B	1.1	2.1	4.2	4.2
100-41-4	Ethylbenzene	1.1	U	0.42	1.1	2.1	2.1
76-13-1	Freon 113	2.1	U	1.1	2.1	4.2	4.2
87-68-3	Hexachlorobutadiene	2.1	U	1.1	2.1	4.2	4.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB64-13-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.64 (g/mL)	CTL Sample ID:	856742
% Solids:	84.0	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 12:37	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.528	J	0.32	2.1	4.2	4.2
98-82-8	Isopropylbenzene	1.1	U	0.32	1.1	2.1	2.1
179601-23-1	m & p-Xylene	2.1	U	0.74	2.1	4.2	4.2
1634-04-4	Methyl tert-butyl ether	1.1	U	0.42	1.1	2.1	2.1
75-09-2	Methylene chloride	2.1	U	1.8	2.1	4.2	4.2
91-20-3	Naphthalene	2.1	U	1.1	2.1	4.2	4.2
104-51-8	n-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
103-65-1	n-Propylbenzene	2.1	U	0.95	2.1	4.2	4.2
95-47-6	o-Xylene	1.1	U	0.42	1.1	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.1	2.1	4.2	4.2
135-98-8	sec-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
100-42-5	Styrene	1.1	U	0.32	1.1	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
127-18-4	Tetrachloroethene	1.1	U	0.42	1.1	2.1	2.1
108-88-3	Toluene	1.16	J	0.42	1.1	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
79-01-6	Trichloroethene	1.1	U	0.32	1.1	2.1	2.1
75-69-4	Trichlorofluoromethane	1.1	U	0.53	1.1	2.1	2.1
108-05-4	Vinyl acetate	21	U	13	21	42	42
75-01-4	Vinyl chloride	1.1	U	0.53	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB64-18-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.83 (g/mL)	CTL Sample ID:	856741
% Solids:	84.4	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 12:09	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	2.0	2.0
71-55-6	1,1,1-Trichloroethane	1.0	U	0.30	1.0	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.51	1.0	2.0	2.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.41	1.0	2.0	2.0
75-34-3	1,1-Dichloroethane	1.0	U	0.41	1.0	2.0	2.0
75-35-4	1,1-Dichloroethene	1.0	U	0.41	1.0	2.0	2.0
563-58-6	1,1-Dichloropropene	1.0	U	0.41	1.0	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.91	2.0	4.1	4.1
96-18-4	1,2,3-Trichloropropane	1.0	U	0.51	1.0	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.91	2.0	4.1	4.1
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.81	2.0	4.1	4.1
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	4.1	4.1
106-93-4	1,2-Dibromoethane	1.0	U	0.41	1.0	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.91	2.0	4.1	4.1
107-06-2	1,2-Dichloroethane	1.0	U	0.51	1.0	2.0	2.0
78-87-5	1,2-Dichloropropane	1.0	U	0.41	1.0	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.91	2.0	4.1	4.1
541-73-1	1,3-Dichlorobenzene	2.0	U	0.91	2.0	4.1	4.1
142-28-9	1,3-Dichloropropane	1.0	U	0.41	1.0	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.91	2.0	4.1	4.1
544-10-5	1-Chlorohexane	1.0	U	0.61	1.0	2.0	2.0
594-20-7	2,2-Dichloropropane	1.0	U	0.41	1.0	2.0	2.0
78-93-3	2-Butanone	20	U	10	20	41	41
95-49-8	2-Chlorotoluene	2.0	U	1.0	2.0	4.1	4.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB64-18-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.83 (g/mL)	CTL Sample ID:	856741
% Solids:	84.4	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 12:09	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	20	U	11	20	41	41
106-43-4	4-Chlorotoluene	2.0	U	0.91	2.0	4.1	4.1
108-10-1	4-Methyl-2-pentanone	20	U	10	20	41	41
67-64-1	Acetone	36.9	J	10	20	41	41
71-43-2	Benzene	1.0	U	0.30	1.0	2.0	2.0
108-86-1	Bromobenzene	1.0	U	0.51	1.0	2.0	2.0
74-97-5	Bromochloromethane	1.0	U	0.41	1.0	2.0	2.0
75-27-4	Bromodichloromethane	1.0	U	0.41	1.0	2.0	2.0
75-25-2	Bromoform	1.0	U	0.41	1.0	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.71	2.0	4.1	4.1
75-15-0	Carbon disulfide	2.0	U	0.91	2.0	4.1	4.1
56-23-5	Carbon tetrachloride	1.0	U	0.30	1.0	2.0	2.0
108-90-7	Chlorobenzene	1.0	U	0.41	1.0	2.0	2.0
75-00-3	Chloroethane	1.0	U	0.51	1.0	2.0	2.0
67-66-3	Chloroform	1.0	U	0.41	1.0	2.0	2.0
74-87-3	Chloromethane	1.0	U	0.41	1.0	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	1.0	U	0.41	1.0	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.30	1.0	2.0	2.0
124-48-1	Dibromochloromethane	1.0	U	0.41	1.0	2.0	2.0
74-95-3	Dibromomethane	1.0	U	0.41	1.0	2.0	2.0
75-71-8	Dichlorodifluoromethane	1.12	J B	1.0	2.0	4.1	4.1
100-41-4	Ethylbenzene	1.0	U	0.41	1.0	2.0	2.0
76-13-1	Freon 113	2.0	U	1.0	2.0	4.1	4.1
87-68-3	Hexachlorobutadiene	2.0	U	1.0	2.0	4.1	4.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB64-18-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.83 (g/mL)	CTL Sample ID:	856741
% Solids:	84.4	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 12:09	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.508	J	0.30	2.0	4.1	4.1
98-82-8	Isopropylbenzene	1.0	U	0.30	1.0	2.0	2.0
179601-23-1	m & p-Xylene	2.0	U	0.71	2.0	4.1	4.1
1634-04-4	Methyl tert-butyl ether	1.0	U	0.41	1.0	2.0	2.0
75-09-2	Methylene chloride	2.0	U	1.7	2.0	4.1	4.1
91-20-3	Naphthalene	2.0	U	1.0	2.0	4.1	4.1
104-51-8	n-Butylbenzene	2.0	U	0.91	2.0	4.1	4.1
103-65-1	n-Propylbenzene	2.0	U	0.91	2.0	4.1	4.1
95-47-6	o-Xylene	1.0	U	0.41	1.0	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	1.0	2.0	4.1	4.1
135-98-8	sec-Butylbenzene	2.0	U	0.91	2.0	4.1	4.1
100-42-5	Styrene	1.0	U	0.30	1.0	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.91	2.0	4.1	4.1
127-18-4	Tetrachloroethene	1.0	U	0.41	1.0	2.0	2.0
108-88-3	Toluene	0.711	J	0.41	1.0	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	0.41	1.0	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.41	1.0	2.0	2.0
79-01-6	Trichloroethene	1.0	U	0.30	1.0	2.0	2.0
75-69-4	Trichlorofluoromethane	1.0	U	0.51	1.0	2.0	2.0
108-05-4	Vinyl acetate	20	U	12	20	41	41
75-01-4	Vinyl chloride	1.0	U	0.51	1.0	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB65-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.33 (g/mL)	CTL Sample ID:	856739
% Solids:	86.4	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 11:10	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.33	1.1	2.2	2.2
71-55-6	1,1,1-Trichloroethane	1.1	U	0.33	1.1	2.2	2.2
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.54	1.1	2.2	2.2
79-00-5	1,1,2-Trichloroethane	1.1	U	0.43	1.1	2.2	2.2
75-34-3	1,1-Dichloroethane	1.1	U	0.43	1.1	2.2	2.2
75-35-4	1,1-Dichloroethene	1.1	U	0.43	1.1	2.2	2.2
563-58-6	1,1-Dichloropropene	1.1	U	0.43	1.1	2.2	2.2
87-61-6	1,2,3-Trichlorobenzene	2.2	U	0.98	2.2	4.3	4.3
96-18-4	1,2,3-Trichloropropane	1.1	U	0.54	1.1	2.2	2.2
120-82-1	1,2,4-Trichlorobenzene	2.2	U	0.98	2.2	4.3	4.3
95-63-6	1,2,4-Trimethylbenzene	2.2	U	0.87	2.2	4.3	4.3
96-12-8	1,2-Dibromo-3-chloropropane	2.2	U	1.4	2.2	4.3	4.3
106-93-4	1,2-Dibromoethane	1.1	U	0.43	1.1	2.2	2.2
95-50-1	1,2-Dichlorobenzene	2.2	U	0.98	2.2	4.3	4.3
107-06-2	1,2-Dichloroethane	1.1	U	0.54	1.1	2.2	2.2
78-87-5	1,2-Dichloropropane	1.1	U	0.43	1.1	2.2	2.2
108-67-8	1,3,5-Trimethylbenzene	2.2	U	0.98	2.2	4.3	4.3
541-73-1	1,3-Dichlorobenzene	2.2	U	0.98	2.2	4.3	4.3
142-28-9	1,3-Dichloropropane	1.1	U	0.43	1.1	2.2	2.2
106-46-7	1,4-Dichlorobenzene	2.2	U	0.98	2.2	4.3	4.3
544-10-5	1-Chlorohexane	1.1	U	0.65	1.1	2.2	2.2
594-20-7	2,2-Dichloropropane	1.1	U	0.43	1.1	2.2	2.2
78-93-3	2-Butanone	22	U	11	22	43	43
95-49-8	2-Chlorotoluene	2.2	U	1.1	2.2	4.3	4.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB65-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.33 (g/mL)	CTL Sample ID:	856739
% Solids:	86.4	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 11:10	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	22	U	12	22	43	43
106-43-4	4-Chlorotoluene	2.2	U	0.98	2.2	4.3	4.3
108-10-1	4-Methyl-2-pentanone	22	U	11	22	43	43
67-64-1	Acetone	22	U	11	22	43	43
71-43-2	Benzene	1.1	U	0.33	1.1	2.2	2.2
108-86-1	Bromobenzene	1.1	U	0.54	1.1	2.2	2.2
74-97-5	Bromochloromethane	1.1	U	0.43	1.1	2.2	2.2
75-27-4	Bromodichloromethane	1.1	U	0.43	1.1	2.2	2.2
75-25-2	Bromoform	1.1	U	0.43	1.1	2.2	2.2
74-83-9	Bromomethane	2.2	U	0.76	2.2	4.3	4.3
75-15-0	Carbon disulfide	2.2	U	0.98	2.2	4.3	4.3
56-23-5	Carbon tetrachloride	1.1	U	0.33	1.1	2.2	2.2
108-90-7	Chlorobenzene	1.1	U	0.43	1.1	2.2	2.2
75-00-3	Chloroethane	1.1	U	0.54	1.1	2.2	2.2
67-66-3	Chloroform	1.1	U	0.43	1.1	2.2	2.2
74-87-3	Chloromethane	1.1	U	0.43	1.1	2.2	2.2
156-59-2	cis-1,2-Dichloroethene	1.1	U	0.43	1.1	2.2	2.2
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.33	1.1	2.2	2.2
124-48-1	Dibromochloromethane	1.1	U	0.43	1.1	2.2	2.2
74-95-3	Dibromomethane	1.1	U	0.43	1.1	2.2	2.2
75-71-8	Dichlorodifluoromethane	1.30	J B	1.1	2.2	4.3	4.3
100-41-4	Ethylbenzene	1.1	U	0.43	1.1	2.2	2.2
76-13-1	Freon 113	2.2	U	1.1	2.2	4.3	4.3
87-68-3	Hexachlorobutadiene	2.2	U	1.1	2.2	4.3	4.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB65-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.33 (g/mL)	CTL Sample ID:	856739
% Solids:	86.4	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 11:10	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	2.2	U	0.33	2.2	4.3	4.3
98-82-8	Isopropylbenzene	1.1	U	0.33	1.1	2.2	2.2
179601-23-1	m & p-Xylene	2.2	U	0.76	2.2	4.3	4.3
1634-04-4	Methyl tert-butyl ether	1.1	U	0.43	1.1	2.2	2.2
75-09-2	Methylene chloride	2.2	U	1.8	2.2	4.3	4.3
91-20-3	Naphthalene	2.2	U	1.1	2.2	4.3	4.3
104-51-8	n-Butylbenzene	2.2	U	0.98	2.2	4.3	4.3
103-65-1	n-Propylbenzene	2.2	U	0.98	2.2	4.3	4.3
95-47-6	o-Xylene	1.1	U	0.43	1.1	2.2	2.2
99-87-6	p-Isopropyltoluene	2.2	U	1.1	2.2	4.3	4.3
135-98-8	sec-Butylbenzene	2.2	U	0.98	2.2	4.3	4.3
100-42-5	Styrene	1.1	U	0.33	1.1	2.2	2.2
98-06-6	tert-Butylbenzene	2.2	U	0.98	2.2	4.3	4.3
127-18-4	Tetrachloroethene	1.1	U	0.43	1.1	2.2	2.2
108-88-3	Toluene	1.09	J	0.43	1.1	2.2	2.2
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.43	1.1	2.2	2.2
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.43	1.1	2.2	2.2
79-01-6	Trichloroethene	1.1	U	0.33	1.1	2.2	2.2
75-69-4	Trichlorofluoromethane	1.1	U	0.54	1.1	2.2	2.2
108-05-4	Vinyl acetate	22	U	13	22	43	43
75-01-4	Vinyl chloride	1.1	U	0.54	1.1	2.2	2.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB65-5-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.72 (g/mL)	CTL Sample ID:	856740
% Solids:	83.0	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 11:39	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.32	1.1	2.1	2.1
71-55-6	1,1,1-Trichloroethane	1.1	U	0.32	1.1	2.1	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.53	1.1	2.1	2.1
79-00-5	1,1,2-Trichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-34-3	1,1-Dichloroethane	1.1	U	0.42	1.1	2.1	2.1
75-35-4	1,1-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
563-58-6	1,1-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
87-61-6	1,2,3-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
96-18-4	1,2,3-Trichloropropane	1.1	U	0.53	1.1	2.1	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
95-63-6	1,2,4-Trimethylbenzene	2.1	U	0.84	2.1	4.2	4.2
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U	1.4	2.1	4.2	4.2
106-93-4	1,2-Dibromoethane	1.1	U	0.42	1.1	2.1	2.1
95-50-1	1,2-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
107-06-2	1,2-Dichloroethane	1.1	U	0.53	1.1	2.1	2.1
78-87-5	1,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
108-67-8	1,3,5-Trimethylbenzene	2.1	U	0.95	2.1	4.2	4.2
541-73-1	1,3-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
142-28-9	1,3-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
106-46-7	1,4-Dichlorobenzene	2.1	U	0.95	2.1	4.2	4.2
544-10-5	1-Chlorohexane	1.1	U	0.63	1.1	2.1	2.1
594-20-7	2,2-Dichloropropane	1.1	U	0.42	1.1	2.1	2.1
78-93-3	2-Butanone	21	U	11	21	42	42
95-49-8	2-Chlorotoluene	2.1	U	1.1	2.1	4.2	4.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB65-5-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.72 (g/mL)	CTL Sample ID:	856740
% Solids:	83.0	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 11:39	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	21	U	12	21	42	42
106-43-4	4-Chlorotoluene	2.1	U	0.95	2.1	4.2	4.2
108-10-1	4-Methyl-2-pentanone	21	U	11	21	42	42
67-64-1	Acetone	38.1	J	11	21	42	42
71-43-2	Benzene	1.1	U	0.32	1.1	2.1	2.1
108-86-1	Bromobenzene	1.1	U	0.53	1.1	2.1	2.1
74-97-5	Bromochloromethane	1.1	U	0.42	1.1	2.1	2.1
75-27-4	Bromodichloromethane	1.1	U	0.42	1.1	2.1	2.1
75-25-2	Bromoform	1.1	U	0.42	1.1	2.1	2.1
74-83-9	Bromomethane	2.1	U	0.74	2.1	4.2	4.2
75-15-0	Carbon disulfide	2.1	U	0.95	2.1	4.2	4.2
56-23-5	Carbon tetrachloride	1.1	U	0.32	1.1	2.1	2.1
108-90-7	Chlorobenzene	1.1	U	0.42	1.1	2.1	2.1
75-00-3	Chloroethane	1.1	U	0.53	1.1	2.1	2.1
67-66-3	Chloroform	1.1	U	0.42	1.1	2.1	2.1
74-87-3	Chloromethane	1.1	U	0.42	1.1	2.1	2.1
156-59-2	cis-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.32	1.1	2.1	2.1
124-48-1	Dibromochloromethane	1.1	U	0.42	1.1	2.1	2.1
74-95-3	Dibromomethane	1.1	U	0.42	1.1	2.1	2.1
75-71-8	Dichlorodifluoromethane	1.58	J B	1.1	2.1	4.2	4.2
100-41-4	Ethylbenzene	1.1	U	0.42	1.1	2.1	2.1
76-13-1	Freon 113	2.1	U	1.1	2.1	4.2	4.2
87-68-3	Hexachlorobutadiene	2.1	U	1.1	2.1	4.2	4.2

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB65-5-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.72 (g/mL)	CTL Sample ID:	856740
% Solids:	83.0	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 11:39	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.632	J	0.32	2.1	4.2	4.2
98-82-8	Isopropylbenzene	1.1	U	0.32	1.1	2.1	2.1
179601-23-1	m & p-Xylene	2.1	U	0.74	2.1	4.2	4.2
1634-04-4	Methyl tert-butyl ether	1.1	U	0.42	1.1	2.1	2.1
75-09-2	Methylene chloride	2.1	U	1.8	2.1	4.2	4.2
91-20-3	Naphthalene	2.1	U	1.1	2.1	4.2	4.2
104-51-8	n-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
103-65-1	n-Propylbenzene	2.1	U	0.95	2.1	4.2	4.2
95-47-6	o-Xylene	1.1	U	0.42	1.1	2.1	2.1
99-87-6	p-Isopropyltoluene	2.1	U	1.1	2.1	4.2	4.2
135-98-8	sec-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
100-42-5	Styrene	1.1	U	0.32	1.1	2.1	2.1
98-06-6	tert-Butylbenzene	2.1	U	0.95	2.1	4.2	4.2
127-18-4	Tetrachloroethene	1.1	U	0.42	1.1	2.1	2.1
108-88-3	Toluene	1.37	J	0.42	1.1	2.1	2.1
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.42	1.1	2.1	2.1
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.42	1.1	2.1	2.1
79-01-6	Trichloroethene	1.1	U	0.32	1.1	2.1	2.1
75-69-4	Trichlorofluoromethane	1.1	U	0.53	1.1	2.1	2.1
108-05-4	Vinyl acetate	21	U	13	21	42	42
75-01-4	Vinyl chloride	1.1	U	0.53	1.1	2.1	2.1

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB66-12-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	4.24 (g/mL)	CTL Sample ID:	856738
% Solids:	89.5	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 07:18	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U	0.40	1.3	2.6	2.6
71-55-6	1,1,1-Trichloroethane	1.3	U	0.40	1.3	2.6	2.6
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U	0.66	1.3	2.6	2.6
79-00-5	1,1,2-Trichloroethane	1.3	U	0.53	1.3	2.6	2.6
75-34-3	1,1-Dichloroethane	1.3	U	0.53	1.3	2.6	2.6
75-35-4	1,1-Dichloroethene	1.3	U	0.53	1.3	2.6	2.6
563-58-6	1,1-Dichloropropene	1.3	U	0.53	1.3	2.6	2.6
87-61-6	1,2,3-Trichlorobenzene	2.6	U	1.2	2.6	5.3	5.3
96-18-4	1,2,3-Trichloropropane	1.3	U	0.66	1.3	2.6	2.6
120-82-1	1,2,4-Trichlorobenzene	2.6	U	1.2	2.6	5.3	5.3
95-63-6	1,2,4-Trimethylbenzene	2.6	U	1.1	2.6	5.3	5.3
96-12-8	1,2-Dibromo-3-chloropropane	2.6	U	1.7	2.6	5.3	5.3
106-93-4	1,2-Dibromoethane	1.3	U	0.53	1.3	2.6	2.6
95-50-1	1,2-Dichlorobenzene	2.6	U	1.2	2.6	5.3	5.3
107-06-2	1,2-Dichloroethane	1.3	U	0.66	1.3	2.6	2.6
78-87-5	1,2-Dichloropropane	1.3	U	0.53	1.3	2.6	2.6
108-67-8	1,3,5-Trimethylbenzene	2.6	U	1.2	2.6	5.3	5.3
541-73-1	1,3-Dichlorobenzene	2.6	U	1.2	2.6	5.3	5.3
142-28-9	1,3-Dichloropropane	1.3	U	0.53	1.3	2.6	2.6
106-46-7	1,4-Dichlorobenzene	2.6	U	1.2	2.6	5.3	5.3
544-10-5	1-Chlorohexane	1.3	U	0.79	1.3	2.6	2.6
594-20-7	2,2-Dichloropropane	1.3	U	0.53	1.3	2.6	2.6
78-93-3	2-Butanone	26	U	13	26	53	53
95-49-8	2-Chlorotoluene	2.6	U	1.3	2.6	5.3	5.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB66-12-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	4.24 (g/mL)	CTL Sample ID:	856738
% Solids:	89.5	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 07:18	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	26	U	14	26	53	53
106-43-4	4-Chlorotoluene	2.6	U	1.2	2.6	5.3	5.3
108-10-1	4-Methyl-2-pentanone	26	U	13	26	53	53
67-64-1	Acetone	30.4	J	13	26	53	53
71-43-2	Benzene	1.3	U	0.40	1.3	2.6	2.6
108-86-1	Bromobenzene	1.3	U	0.66	1.3	2.6	2.6
74-97-5	Bromochloromethane	1.3	U	0.53	1.3	2.6	2.6
75-27-4	Bromodichloromethane	1.3	U	0.53	1.3	2.6	2.6
75-25-2	Bromoform	1.3	U	0.53	1.3	2.6	2.6
74-83-9	Bromomethane	2.6	U	0.92	2.6	5.3	5.3
75-15-0	Carbon disulfide	2.6	U	1.2	2.6	5.3	5.3
56-23-5	Carbon tetrachloride	1.3	U	0.40	1.3	2.6	2.6
108-90-7	Chlorobenzene	1.3	U	0.53	1.3	2.6	2.6
75-00-3	Chloroethane	1.3	U	0.66	1.3	2.6	2.6
67-66-3	Chloroform	1.3	U	0.53	1.3	2.6	2.6
74-87-3	Chloromethane	1.3	U	0.53	1.3	2.6	2.6
156-59-2	cis-1,2-Dichloroethene	1.3	U	0.53	1.3	2.6	2.6
10061-01-5	cis-1,3-Dichloropropene	1.3	U	0.40	1.3	2.6	2.6
124-48-1	Dibromochloromethane	1.3	U	0.53	1.3	2.6	2.6
74-95-3	Dibromomethane	1.3	U	0.53	1.3	2.6	2.6
75-71-8	Dichlorodifluoromethane	2.6	U	1.3	2.6	5.3	5.3
100-41-4	Ethylbenzene	1.3	U	0.53	1.3	2.6	2.6
76-13-1	Freon 113	2.6	U	1.3	2.6	5.3	5.3
87-68-3	Hexachlorobutadiene	2.6	U	1.3	2.6	5.3	5.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB66-12-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	4.24 (g/mL)	CTL Sample ID:	856738
% Solids:	89.5	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 07:18	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	2.6	U	0.40	2.6	5.3	5.3
98-82-8	Isopropylbenzene	1.3	U	0.40	1.3	2.6	2.6
179601-23-1	m & p-Xylene	2.6	U	0.92	2.6	5.3	5.3
1634-04-4	Methyl tert-butyl ether	1.3	U	0.53	1.3	2.6	2.6
75-09-2	Methylene chloride	2.6	U	2.2	2.6	5.3	5.3
91-20-3	Naphthalene	2.6	U	1.3	2.6	5.3	5.3
104-51-8	n-Butylbenzene	2.6	U	1.2	2.6	5.3	5.3
103-65-1	n-Propylbenzene	2.6	U	1.2	2.6	5.3	5.3
95-47-6	o-Xylene	1.3	U	0.53	1.3	2.6	2.6
99-87-6	p-Isopropyltoluene	2.6	U	1.3	2.6	5.3	5.3
135-98-8	sec-Butylbenzene	2.6	U	1.2	2.6	5.3	5.3
100-42-5	Styrene	1.3	U	0.40	1.3	2.6	2.6
98-06-6	tert-Butylbenzene	2.6	U	1.2	2.6	5.3	5.3
127-18-4	Tetrachloroethene	1.3	U	0.53	1.3	2.6	2.6
108-88-3	Toluene	1.45	J	0.53	1.3	2.6	2.6
156-60-5	trans-1,2-Dichloroethene	1.3	U	0.53	1.3	2.6	2.6
10061-02-6	trans-1,3-Dichloropropene	1.3	U	0.53	1.3	2.6	2.6
79-01-6	Trichloroethene	1.3	U	0.40	1.3	2.6	2.6
75-69-4	Trichlorofluoromethane	1.3	U	0.66	1.3	2.6	2.6
108-05-4	Vinyl acetate	26	U	16	26	53	53
75-01-4	Vinyl chloride	1.3	U	0.66	1.3	2.6	2.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB66-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.86 (g/mL)	CTL Sample ID:	856726
% Solids:	91.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 03:27	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.93	U	0.28	0.93	1.9	1.9
71-55-6	1,1,1-Trichloroethane	0.93	U	0.28	0.93	1.9	1.9
79-34-5	1,1,2,2-Tetrachloroethane	0.93	U	0.47	0.93	1.9	1.9
79-00-5	1,1,2-Trichloroethane	0.93	U	0.37	0.93	1.9	1.9
75-34-3	1,1-Dichloroethane	0.93	U	0.37	0.93	1.9	1.9
75-35-4	1,1-Dichloroethene	0.93	U	0.37	0.93	1.9	1.9
563-58-6	1,1-Dichloropropene	0.93	U	0.37	0.93	1.9	1.9
87-61-6	1,2,3-Trichlorobenzene	1.9	U	0.84	1.9	3.7	3.7
96-18-4	1,2,3-Trichloropropane	0.93	U	0.47	0.93	1.9	1.9
120-82-1	1,2,4-Trichlorobenzene	1.9	U	0.84	1.9	3.7	3.7
95-63-6	1,2,4-Trimethylbenzene	1.9	U	0.74	1.9	3.7	3.7
96-12-8	1,2-Dibromo-3-chloropropane	1.9	U	1.2	1.9	3.7	3.7
106-93-4	1,2-Dibromoethane	0.93	U	0.37	0.93	1.9	1.9
95-50-1	1,2-Dichlorobenzene	1.9	U	0.84	1.9	3.7	3.7
107-06-2	1,2-Dichloroethane	0.93	U	0.47	0.93	1.9	1.9
78-87-5	1,2-Dichloropropane	0.93	U	0.37	0.93	1.9	1.9
108-67-8	1,3,5-Trimethylbenzene	1.9	U	0.84	1.9	3.7	3.7
541-73-1	1,3-Dichlorobenzene	1.9	U	0.84	1.9	3.7	3.7
142-28-9	1,3-Dichloropropane	0.93	U	0.37	0.93	1.9	1.9
106-46-7	1,4-Dichlorobenzene	1.9	U	0.84	1.9	3.7	3.7
544-10-5	1-Chlorohexane	0.93	U	0.56	0.93	1.9	1.9
594-20-7	2,2-Dichloropropane	0.93	U	0.37	0.93	1.9	1.9
78-93-3	2-Butanone	19	U	9.3	19	37	37
95-49-8	2-Chlorotoluene	1.9	U	0.93	1.9	3.7	3.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB66-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.86 (g/mL)	CTL Sample ID:	856726
% Solids:	91.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 03:27	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	19	U	10	19	37	37
106-43-4	4-Chlorotoluene	1.9	U	0.84	1.9	3.7	3.7
108-10-1	4-Methyl-2-pentanone	19	U	9.3	19	37	37
67-64-1	Acetone	19	U	9.3	19	37	37
71-43-2	Benzene	0.93	U	0.28	0.93	1.9	1.9
108-86-1	Bromobenzene	0.93	U	0.47	0.93	1.9	1.9
74-97-5	Bromochloromethane	0.93	U	0.37	0.93	1.9	1.9
75-27-4	Bromodichloromethane	0.93	U	0.37	0.93	1.9	1.9
75-25-2	Bromoform	0.93	U	0.37	0.93	1.9	1.9
74-83-9	Bromomethane	1.9	U	0.65	1.9	3.7	3.7
75-15-0	Carbon disulfide	1.9	U	0.84	1.9	3.7	3.7
56-23-5	Carbon tetrachloride	0.93	U	0.28	0.93	1.9	1.9
108-90-7	Chlorobenzene	0.93	U	0.37	0.93	1.9	1.9
75-00-3	Chloroethane	0.93	U	0.47	0.93	1.9	1.9
67-66-3	Chloroform	0.93	U	0.37	0.93	1.9	1.9
74-87-3	Chloromethane	0.93	U	0.37	0.93	1.9	1.9
156-59-2	cis-1,2-Dichloroethene	0.93	U	0.37	0.93	1.9	1.9
10061-01-5	cis-1,3-Dichloropropene	0.93	U	0.28	0.93	1.9	1.9
124-48-1	Dibromochloromethane	0.93	U	0.37	0.93	1.9	1.9
74-95-3	Dibromomethane	0.93	U	0.37	0.93	1.9	1.9
75-71-8	Dichlorodifluoromethane	1.9	U	0.93	1.9	3.7	3.7
100-41-4	Ethylbenzene	0.93	U	0.37	0.93	1.9	1.9
76-13-1	Freon 113	1.9	U	0.93	1.9	3.7	3.7
87-68-3	Hexachlorobutadiene	1.9	U	0.93	1.9	3.7	3.7

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB66-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.86 (g/mL)	CTL Sample ID:	856726
% Solids:	91.7	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 03:27	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	1.9	U	0.28	1.9	3.7	3.7
98-82-8	Isopropylbenzene	0.93	U	0.28	0.93	1.9	1.9
179601-23-1	m & p-Xylene	1.9	U	0.65	1.9	3.7	3.7
1634-04-4	Methyl tert-butyl ether	0.93	U	0.37	0.93	1.9	1.9
75-09-2	Methylene chloride	1.9	U	1.6	1.9	3.7	3.7
91-20-3	Naphthalene	1.9	U	0.93	1.9	3.7	3.7
104-51-8	n-Butylbenzene	1.9	U	0.84	1.9	3.7	3.7
103-65-1	n-Propylbenzene	1.9	U	0.84	1.9	3.7	3.7
95-47-6	o-Xylene	0.93	U	0.37	0.93	1.9	1.9
99-87-6	p-Isopropyltoluene	1.9	U	0.93	1.9	3.7	3.7
135-98-8	sec-Butylbenzene	1.9	U	0.84	1.9	3.7	3.7
100-42-5	Styrene	0.93	U	0.28	0.93	1.9	1.9
98-06-6	tert-Butylbenzene	1.9	U	0.84	1.9	3.7	3.7
127-18-4	Tetrachloroethene	0.93	U	0.37	0.93	1.9	1.9
108-88-3	Toluene	0.744	J	0.37	0.93	1.9	1.9
156-60-5	trans-1,2-Dichloroethene	0.93	U	0.37	0.93	1.9	1.9
10061-02-6	trans-1,3-Dichloropropene	0.93	U	0.37	0.93	1.9	1.9
79-01-6	Trichloroethene	0.93	U	0.28	0.93	1.9	1.9
75-69-4	Trichlorofluoromethane	0.93	U	0.47	0.93	1.9	1.9
108-05-4	Vinyl acetate	19	U	11	19	37	37
75-01-4	Vinyl chloride	0.93	U	0.47	0.93	1.9	1.9

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB67-10-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.03 (g/mL)	CTL Sample ID:	856722
% Solids:	83.8	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 02:29	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.99	U	0.30	0.99	2.0	2.0
71-55-6	1,1,1-Trichloroethane	0.99	U	0.30	0.99	2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	0.99	U	0.49	0.99	2.0	2.0
79-00-5	1,1,2-Trichloroethane	0.99	U	0.40	0.99	2.0	2.0
75-34-3	1,1-Dichloroethane	0.99	U	0.40	0.99	2.0	2.0
75-35-4	1,1-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
563-58-6	1,1-Dichloropropene	0.99	U	0.40	0.99	2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
96-18-4	1,2,3-Trichloropropane	0.99	U	0.49	0.99	2.0	2.0
120-82-1	1,2,4-Trichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
95-63-6	1,2,4-Trimethylbenzene	2.0	U	0.79	2.0	4.0	4.0
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U	1.3	2.0	4.0	4.0
106-93-4	1,2-Dibromoethane	0.99	U	0.40	0.99	2.0	2.0
95-50-1	1,2-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
107-06-2	1,2-Dichloroethane	0.99	U	0.49	0.99	2.0	2.0
78-87-5	1,2-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	2.0	U	0.89	2.0	4.0	4.0
541-73-1	1,3-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
142-28-9	1,3-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
106-46-7	1,4-Dichlorobenzene	2.0	U	0.89	2.0	4.0	4.0
544-10-5	1-Chlorohexane	0.99	U	0.59	0.99	2.0	2.0
594-20-7	2,2-Dichloropropane	0.99	U	0.40	0.99	2.0	2.0
78-93-3	2-Butanone	20	U	9.9	20	40	40
95-49-8	2-Chlorotoluene	2.0	U	0.99	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB67-10-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.03 (g/mL)	CTL Sample ID:	856722
% Solids:	83.8	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 02:29	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	20	U	11	20	40	40
106-43-4	4-Chlorotoluene	2.0	U	0.89	2.0	4.0	4.0
108-10-1	4-Methyl-2-pentanone	20	U	9.9	20	40	40
67-64-1	Acetone	30.1	J	9.9	20	40	40
71-43-2	Benzene	0.99	U	0.30	0.99	2.0	2.0
108-86-1	Bromobenzene	0.99	U	0.49	0.99	2.0	2.0
74-97-5	Bromochloromethane	0.99	U	0.40	0.99	2.0	2.0
75-27-4	Bromodichloromethane	0.99	U	0.40	0.99	2.0	2.0
75-25-2	Bromoform	0.99	U	0.40	0.99	2.0	2.0
74-83-9	Bromomethane	2.0	U	0.69	2.0	4.0	4.0
75-15-0	Carbon disulfide	2.0	U	0.89	2.0	4.0	4.0
56-23-5	Carbon tetrachloride	0.99	U	0.30	0.99	2.0	2.0
108-90-7	Chlorobenzene	0.99	U	0.40	0.99	2.0	2.0
75-00-3	Chloroethane	0.99	U	0.49	0.99	2.0	2.0
67-66-3	Chloroform	0.99	U	0.40	0.99	2.0	2.0
74-87-3	Chloromethane	0.99	U	0.40	0.99	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	0.99	U	0.30	0.99	2.0	2.0
124-48-1	Dibromochloromethane	0.99	U	0.40	0.99	2.0	2.0
74-95-3	Dibromomethane	0.99	U	0.40	0.99	2.0	2.0
75-71-8	Dichlorodifluoromethane	2.0	U	0.99	2.0	4.0	4.0
100-41-4	Ethylbenzene	0.99	U	0.40	0.99	2.0	2.0
76-13-1	Freon 113	2.0	U	0.99	2.0	4.0	4.0
87-68-3	Hexachlorobutadiene	2.0	U	0.99	2.0	4.0	4.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB67-10-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	6.03 (g/mL)	CTL Sample ID:	856722
% Solids:	83.8	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 02:29	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.693	J B	0.30	2.0	4.0	4.0
98-82-8	Isopropylbenzene	0.99	U	0.30	0.99	2.0	2.0
179601-23-1	m & p-Xylene	2.0	U	0.69	2.0	4.0	4.0
1634-04-4	Methyl tert-butyl ether	0.99	U	0.40	0.99	2.0	2.0
75-09-2	Methylene chloride	2.0	U	1.7	2.0	4.0	4.0
91-20-3	Naphthalene	2.0	U	0.99	2.0	4.0	4.0
104-51-8	n-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
103-65-1	n-Propylbenzene	2.0	U	0.89	2.0	4.0	4.0
95-47-6	o-Xylene	0.99	U	0.40	0.99	2.0	2.0
99-87-6	p-Isopropyltoluene	2.0	U	0.99	2.0	4.0	4.0
135-98-8	sec-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
100-42-5	Styrene	0.99	U	0.30	0.99	2.0	2.0
98-06-6	tert-Butylbenzene	2.0	U	0.89	2.0	4.0	4.0
127-18-4	Tetrachloroethene	0.99	U	0.40	0.99	2.0	2.0
108-88-3	Toluene	1.19	J	0.40	0.99	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	0.99	U	0.40	0.99	2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	0.99	U	0.40	0.99	2.0	2.0
79-01-6	Trichloroethene	0.99	U	0.30	0.99	2.0	2.0
75-69-4	Trichlorofluoromethane	0.99	U	0.49	0.99	2.0	2.0
108-05-4	Vinyl acetate	20	U	12	20	40	40
75-01-4	Vinyl chloride	0.99	U	0.49	0.99	2.0	2.0

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB67-3-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.37 (g/mL)	CTL Sample ID:	856721
% Solids:	81.8	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 02:00	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U	0.34	1.1	2.3	2.3
71-55-6	1,1,1-Trichloroethane	1.1	U	0.34	1.1	2.3	2.3
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U	0.57	1.1	2.3	2.3
79-00-5	1,1,2-Trichloroethane	1.1	U	0.46	1.1	2.3	2.3
75-34-3	1,1-Dichloroethane	1.1	U	0.46	1.1	2.3	2.3
75-35-4	1,1-Dichloroethene	1.1	U	0.46	1.1	2.3	2.3
563-58-6	1,1-Dichloropropene	1.1	U	0.46	1.1	2.3	2.3
87-61-6	1,2,3-Trichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
96-18-4	1,2,3-Trichloropropane	1.1	U	0.57	1.1	2.3	2.3
120-82-1	1,2,4-Trichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
95-63-6	1,2,4-Trimethylbenzene	2.3	U	0.91	2.3	4.6	4.6
96-12-8	1,2-Dibromo-3-chloropropane	2.3	U	1.5	2.3	4.6	4.6
106-93-4	1,2-Dibromoethane	1.1	U	0.46	1.1	2.3	2.3
95-50-1	1,2-Dichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
107-06-2	1,2-Dichloroethane	1.1	U	0.57	1.1	2.3	2.3
78-87-5	1,2-Dichloropropane	1.1	U	0.46	1.1	2.3	2.3
108-67-8	1,3,5-Trimethylbenzene	2.3	U	1.0	2.3	4.6	4.6
541-73-1	1,3-Dichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
142-28-9	1,3-Dichloropropane	1.1	U	0.46	1.1	2.3	2.3
106-46-7	1,4-Dichlorobenzene	2.3	U	1.0	2.3	4.6	4.6
544-10-5	1-Chlorohexane	1.1	U	0.68	1.1	2.3	2.3
594-20-7	2,2-Dichloropropane	1.1	U	0.46	1.1	2.3	2.3
78-93-3	2-Butanone	23	U	11	23	46	46
95-49-8	2-Chlorotoluene	2.3	U	1.1	2.3	4.6	4.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB67-3-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.37 (g/mL)	CTL Sample ID:	856721
% Solids:	81.8	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 02:00	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	23	U	13	23	46	46
106-43-4	4-Chlorotoluene	2.3	U	1.0	2.3	4.6	4.6
108-10-1	4-Methyl-2-pentanone	23	U	11	23	46	46
67-64-1	Acetone	76.6		11	23	46	46
71-43-2	Benzene	1.1	U	0.34	1.1	2.3	2.3
108-86-1	Bromobenzene	1.1	U	0.57	1.1	2.3	2.3
74-97-5	Bromochloromethane	1.1	U	0.46	1.1	2.3	2.3
75-27-4	Bromodichloromethane	1.1	U	0.46	1.1	2.3	2.3
75-25-2	Bromoform	1.1	U	0.46	1.1	2.3	2.3
74-83-9	Bromomethane	2.3	U	0.80	2.3	4.6	4.6
75-15-0	Carbon disulfide	2.3	U	1.0	2.3	4.6	4.6
56-23-5	Carbon tetrachloride	1.1	U	0.34	1.1	2.3	2.3
108-90-7	Chlorobenzene	1.1	U	0.46	1.1	2.3	2.3
75-00-3	Chloroethane	1.1	U	0.57	1.1	2.3	2.3
67-66-3	Chloroform	1.1	U	0.46	1.1	2.3	2.3
74-87-3	Chloromethane	1.1	U	0.46	1.1	2.3	2.3
156-59-2	cis-1,2-Dichloroethene	1.1	U	0.46	1.1	2.3	2.3
10061-01-5	cis-1,3-Dichloropropene	1.1	U	0.34	1.1	2.3	2.3
124-48-1	Dibromochloromethane	1.1	U	0.46	1.1	2.3	2.3
74-95-3	Dibromomethane	1.1	U	0.46	1.1	2.3	2.3
75-71-8	Dichlorodifluoromethane	2.3	U	1.1	2.3	4.6	4.6
100-41-4	Ethylbenzene	1.1	U	0.46	1.1	2.3	2.3
76-13-1	Freon 113	2.3	U	1.1	2.3	4.6	4.6
87-68-3	Hexachlorobutadiene	2.3	U	1.1	2.3	4.6	4.6

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-SB67-3-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	SOIL	SDG No.:	126716
Sample wt/vol:	5.37 (g/mL)	CTL Sample ID:	856721
% Solids:	81.8	Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Date & Time Analyzed:	04/28/2017 / 02:00	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.455	J B	0.34	2.3	4.6	4.6
98-82-8	Isopropylbenzene	1.1	U	0.34	1.1	2.3	2.3
179601-23-1	m & p-Xylene	2.3	U	0.80	2.3	4.6	4.6
1634-04-4	Methyl tert-butyl ether	1.1	U	0.46	1.1	2.3	2.3
75-09-2	Methylene chloride	2.3	U	1.9	2.3	4.6	4.6
91-20-3	Naphthalene	2.3	U	1.1	2.3	4.6	4.6
104-51-8	n-Butylbenzene	2.3	U	1.0	2.3	4.6	4.6
103-65-1	n-Propylbenzene	2.3	U	1.0	2.3	4.6	4.6
95-47-6	o-Xylene	1.1	U	0.46	1.1	2.3	2.3
99-87-6	p-Isopropyltoluene	2.3	U	1.1	2.3	4.6	4.6
135-98-8	sec-Butylbenzene	2.3	U	1.0	2.3	4.6	4.6
100-42-5	Styrene	1.1	U	0.34	1.1	2.3	2.3
98-06-6	tert-Butylbenzene	2.3	U	1.0	2.3	4.6	4.6
127-18-4	Tetrachloroethene	1.1	U	0.46	1.1	2.3	2.3
108-88-3	Toluene	0.683	J	0.46	1.1	2.3	2.3
156-60-5	trans-1,2-Dichloroethene	1.1	U	0.46	1.1	2.3	2.3
10061-02-6	trans-1,3-Dichloropropene	1.1	U	0.46	1.1	2.3	2.3
79-01-6	Trichloroethene	1.1	U	0.34	1.1	2.3	2.3
75-69-4	Trichlorofluoromethane	1.1	U	0.57	1.1	2.3	2.3
108-05-4	Vinyl acetate	23	U	14	23	46	46
75-01-4	Vinyl chloride	1.1	U	0.57	1.1	2.3	2.3

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-TB-1-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	TRIP BLANK	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856732
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 11:03	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.020	U	0.011	0.020	0.10	0.10
71-55-6	1,1,1-Trichloroethane	0.020	U	0.0090	0.020	0.10	0.10
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	0.017	0.050	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.050	U	0.015	0.050	0.10	0.10
75-34-3	1,1-Dichloroethane	0.050	U	0.021	0.050	0.10	0.10
75-35-4	1,1-Dichloroethene	0.10	U	0.040	0.10	0.20	0.20
563-58-6	1,1-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
87-61-6	1,2,3-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
96-18-4	1,2,3-Trichloropropane	0.050	U	0.027	0.050	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.050	U	0.029	0.050	0.10	0.10
96-12-8	1,2-Dibromo-3-chloropropane	0.10	U	0.070	0.10	0.20	0.20
106-93-4	1,2-Dibromoethane	0.050	U	0.015	0.050	0.10	0.10
95-50-1	1,2-Dichlorobenzene	0.050	U	0.025	0.050	0.10	0.10
107-06-2	1,2-Dichloroethane	0.050	U	0.015	0.050	0.10	0.10
78-87-5	1,2-Dichloropropane	0.020	U	0.012	0.020	0.10	0.10
108-67-8	1,3,5-Trimethylbenzene	0.050	U	0.024	0.050	0.10	0.10
541-73-1	1,3-Dichlorobenzene	0.050	U	0.030	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	0.030	0.050	0.10	0.10
544-10-5	1-Chlorohexane	0.10	U	0.040	0.10	0.20	0.20
594-20-7	2,2-Dichloropropane	0.050	U	0.019	0.050	0.10	0.10
78-93-3	2-Butanone	1.0	U	0.50	1.0	2.0	2.0
95-49-8	2-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-TB-1-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	TRIP BLANK	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856732
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 11:03	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	0.20	U	0.12	0.20	1.0	1.0
106-43-4	4-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10
108-10-1	4-Methyl-2-pentanone	0.50	U	0.18	0.50	1.0	1.0
67-64-1	Acetone	1.0	U	0.90	1.0	2.0	2.0
71-43-2	Benzene	0.020	U	0.0080	0.020	0.10	0.10
108-86-1	Bromobenzene	0.050	U	0.026	0.050	0.10	0.10
74-97-5	Bromochloromethane	0.050	U	0.030	0.050	0.10	0.10
75-27-4	Bromodichloromethane	0.050	U	0.016	0.050	0.10	0.10
75-25-2	Bromoform	0.050	U	0.019	0.050	0.10	0.10
74-83-9	Bromomethane	0.10	U	0.038	0.10	0.20	0.20
75-15-0	Carbon disulfide	0.20	U	0.070	0.20	0.40	0.40
56-23-5	Carbon tetrachloride	0.050	U	0.018	0.050	0.10	0.10
108-90-7	Chlorobenzene	0.050	U	0.030	0.050	0.10	0.10
75-00-3	Chloroethane	0.10	U	0.070	0.10	0.20	0.20
67-66-3	Chloroform	0.020	U	0.010	0.020	0.10	0.10
74-87-3	Chloromethane	0.032	J B	0.026	0.050	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.050	U	0.022	0.050	0.10	0.10
10061-01-5	cis-1,3-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
124-48-1	Dibromochloromethane	0.050	U	0.018	0.050	0.10	0.10
74-95-3	Dibromomethane	0.020	U	0.010	0.020	0.10	0.10
75-71-8	Dichlorodifluoromethane	0.020	U	0.013	0.020	0.10	0.10
100-41-4	Ethylbenzene	0.050	U	0.027	0.050	0.10	0.10
76-13-1	Freon 113	0.10	U	0.050	0.10	0.20	0.20
87-68-3	Hexachlorobutadiene	0.050	U	0.030	0.050	0.10	0.10

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1A

VOLATILE ORGANICS ANALYSIS

Sample Description

DF-TB-1-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	TRIP BLANK	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856732
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 11:03	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.20	U	0.080	0.20	0.40	0.40
98-82-8	Isopropylbenzene	0.050	U	0.026	0.050	0.10	0.10
179601-23-1	m & p-Xylene	0.10	U	0.060	0.10	0.20	0.20
1634-04-4	Methyl tert-butyl ether	0.050	U	0.025	0.050	0.10	0.10
75-09-2	Methylene chloride	0.20	U	0.060	0.20	1.0	1.0
91-20-3	Naphthalene	0.10	U	0.040	0.10	0.20	0.20
104-51-8	n-Butylbenzene	0.050	U	0.027	0.050	0.10	0.10
103-65-1	n-Propylbenzene	0.050	U	0.030	0.050	0.10	0.10
95-47-6	o-Xylene	0.050	U	0.026	0.050	0.10	0.10
99-87-6	p-Isopropyltoluene	0.050	U	0.025	0.050	0.10	0.10
135-98-8	sec-Butylbenzene	0.050	U	0.024	0.050	0.10	0.10
100-42-5	Styrene	0.050	U	0.024	0.050	0.10	0.10
98-06-6	tert-Butylbenzene	0.050	U	0.026	0.050	0.10	0.10
127-18-4	Tetrachloroethene	0.020	U	0.010	0.020	0.10	0.10
108-88-3	Toluene	0.020	U	0.011	0.020	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	0.050	U	0.026	0.050	0.10	0.10
10061-02-6	trans-1,3-Dichloropropene	0.050	U	0.014	0.050	0.10	0.10
79-01-6	Trichloroethene	0.050	U	0.020	0.050	0.10	0.10
75-69-4	Trichlorofluoromethane	0.050	U	0.022	0.050	0.20	0.20
108-05-4	Vinyl acetate	0.50	U	0.25	0.50	1.0	1.0
75-01-4	Vinyl chloride	0.050	U	0.019	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-TB-2-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	TRIP BLANK	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856724
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 10:07	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
630-20-6	1,1,1,2-Tetrachloroethane	0.020	U	0.011	0.020	0.10	0.10
71-55-6	1,1,1-Trichloroethane	0.020	U	0.0090	0.020	0.10	0.10
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U	0.017	0.050	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.050	U	0.015	0.050	0.10	0.10
75-34-3	1,1-Dichloroethane	0.050	U	0.021	0.050	0.10	0.10
75-35-4	1,1-Dichloroethene	0.10	U	0.040	0.10	0.20	0.20
563-58-6	1,1-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
87-61-6	1,2,3-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
96-18-4	1,2,3-Trichloropropane	0.050	U	0.027	0.050	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.040	0.10	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.050	U	0.029	0.050	0.10	0.10
96-12-8	1,2-Dibromo-3-chloropropane	0.10	U	0.070	0.10	0.20	0.20
106-93-4	1,2-Dibromoethane	0.050	U	0.015	0.050	0.10	0.10
95-50-1	1,2-Dichlorobenzene	0.050	U	0.025	0.050	0.10	0.10
107-06-2	1,2-Dichloroethane	0.050	U	0.015	0.050	0.10	0.10
78-87-5	1,2-Dichloropropane	0.020	U	0.012	0.020	0.10	0.10
108-67-8	1,3,5-Trimethylbenzene	0.050	U	0.024	0.050	0.10	0.10
541-73-1	1,3-Dichlorobenzene	0.050	U	0.030	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	0.030	0.050	0.10	0.10
544-10-5	1-Chlorohexane	0.10	U	0.040	0.10	0.20	0.20
594-20-7	2,2-Dichloropropane	0.050	U	0.019	0.050	0.10	0.10
78-93-3	2-Butanone	1.0	U	0.50	1.0	2.0	2.0
95-49-8	2-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-TB-2-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	TRIP BLANK	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856724
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 10:07	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
591-78-6	2-Hexanone	0.20	U	0.12	0.20	1.0	1.0
106-43-4	4-Chlorotoluene	0.050	U	0.030	0.050	0.10	0.10
108-10-1	4-Methyl-2-pentanone	0.50	U	0.18	0.50	1.0	1.0
67-64-1	Acetone	1.0	U	0.90	1.0	2.0	2.0
71-43-2	Benzene	0.020	U	0.0080	0.020	0.10	0.10
108-86-1	Bromobenzene	0.050	U	0.026	0.050	0.10	0.10
74-97-5	Bromochloromethane	0.050	U	0.030	0.050	0.10	0.10
75-27-4	Bromodichloromethane	0.050	U	0.016	0.050	0.10	0.10
75-25-2	Bromoform	0.050	U	0.019	0.050	0.10	0.10
74-83-9	Bromomethane	0.10	U	0.038	0.10	0.20	0.20
75-15-0	Carbon disulfide	0.20	U	0.070	0.20	0.40	0.40
56-23-5	Carbon tetrachloride	0.050	U	0.018	0.050	0.10	0.10
108-90-7	Chlorobenzene	0.050	U	0.030	0.050	0.10	0.10
75-00-3	Chloroethane	0.10	U	0.070	0.10	0.20	0.20
67-66-3	Chloroform	0.020	U	0.010	0.020	0.10	0.10
74-87-3	Chloromethane	0.031	J B	0.026	0.050	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.050	U	0.022	0.050	0.10	0.10
10061-01-5	cis-1,3-Dichloropropene	0.020	U	0.012	0.020	0.10	0.10
124-48-1	Dibromochloromethane	0.050	U	0.018	0.050	0.10	0.10
74-95-3	Dibromomethane	0.020	U	0.010	0.020	0.10	0.10
75-71-8	Dichlorodifluoromethane	0.020	U	0.013	0.020	0.10	0.10
100-41-4	Ethylbenzene	0.050	U	0.027	0.050	0.10	0.10
76-13-1	Freon 113	0.10	U	0.050	0.10	0.20	0.20
87-68-3	Hexachlorobutadiene	0.050	U	0.030	0.050	0.10	0.10

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VOLATILE ORGANICS ANALYSIS

Sample Description

DF-TB-2-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:	TRIP BLANK	SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	856724
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	
Analytical Run #:	136990	Dilution Factor:	1.00
Date & Time Analyzed:	04/21/2017 / 10:07	GPC Cleanup Date/Time:	/
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
74-88-4	Iodomethane	0.20	U	0.080	0.20	0.40	0.40
98-82-8	Isopropylbenzene	0.050	U	0.026	0.050	0.10	0.10
179601-23-1	m & p-Xylene	0.10	U	0.060	0.10	0.20	0.20
1634-04-4	Methyl tert-butyl ether	0.050	U	0.025	0.050	0.10	0.10
75-09-2	Methylene chloride	0.20	U	0.060	0.20	1.0	1.0
91-20-3	Naphthalene	0.10	U	0.040	0.10	0.20	0.20
104-51-8	n-Butylbenzene	0.050	U	0.027	0.050	0.10	0.10
103-65-1	n-Propylbenzene	0.050	U	0.030	0.050	0.10	0.10
95-47-6	o-Xylene	0.050	U	0.026	0.050	0.10	0.10
99-87-6	p-Isopropyltoluene	0.050	U	0.025	0.050	0.10	0.10
135-98-8	sec-Butylbenzene	0.050	U	0.024	0.050	0.10	0.10
100-42-5	Styrene	0.050	U	0.024	0.050	0.10	0.10
98-06-6	tert-Butylbenzene	0.050	U	0.026	0.050	0.10	0.10
127-18-4	Tetrachloroethene	0.020	U	0.010	0.020	0.10	0.10
108-88-3	Toluene	0.020	U	0.011	0.020	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	0.050	U	0.026	0.050	0.10	0.10
10061-02-6	trans-1,3-Dichloropropene	0.050	U	0.014	0.050	0.10	0.10
79-01-6	Trichloroethene	0.050	U	0.020	0.050	0.10	0.10
75-69-4	Trichlorofluoromethane	0.050	U	0.022	0.050	0.20	0.20
108-05-4	Vinyl acetate	0.50	U	0.25	0.50	1.0	1.0
75-01-4	Vinyl chloride	0.050	U	0.019	0.050	0.10	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:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	857932
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	136990	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	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	04/21/2017	09:39	0.011	U	0.011	0.100	***0.050***
71-55-6	1,1,1-Trichloroethane	04/21/2017	09:39	0.009	U	0.009	0.100	***0.050***
79-34-5	1,1,2,2-Tetrachloroethane	04/21/2017	09:39	0.017	U	0.017	0.200	***0.100***
79-00-5	1,1,2-Trichloroethane	04/21/2017	09:39	0.015	U	0.015	0.100	***0.050***
75-34-3	1,1-Dichloroethane	04/21/2017	09:39	0.021	U	0.021	0.100	***0.050***
75-35-4	1,1-Dichloroethene	04/21/2017	09:39	0.04	U	0.04	0.10	***0.05***
563-58-6	1,1-Dichloropropene	04/21/2017	09:39	0.012	U	0.012	0.100	***0.050***
87-61-6	1,2,3-Trichlorobenzene	04/21/2017	09:39	0.04	U	0.04	0.10	***0.05***
96-18-4	1,2,3-Trichloropropane	04/21/2017	09:39	0.027	U	0.027	0.200	***0.100***
120-82-1	1,2,4-Trichlorobenzene	04/21/2017	09:39	0.04	U	0.04	0.10	***0.05***
95-63-6	1,2,4-Trimethylbenzene	04/21/2017	09:39	0.029	U	0.029	0.100	***0.050***
96-12-8	1,2-Dibromo-3-chloropropane	04/21/2017	09:39	0.07	U	0.07	0.20	***0.10***
106-93-4	1,2-Dibromoethane	04/21/2017	09:39	0.015	U	0.015	0.100	***0.050***
95-50-1	1,2-Dichlorobenzene	04/21/2017	09:39	0.025	U	0.025	0.100	***0.050***
107-06-2	1,2-Dichloroethane	04/21/2017	09:39	0.015	U	0.015	0.100	***0.050***
78-87-5	1,2-Dichloropropane	04/21/2017	09:39	0.012	U	0.012	0.100	***0.050***
108-67-8	1,3,5-Trimethylbenzene	04/21/2017	09:39	0.024	U	0.024	0.100	***0.050***
541-73-1	1,3-Dichlorobenzene	04/21/2017	09:39	0.03	U	0.03	0.10	***0.05***
142-28-9	1,3-Dichloropropane	04/21/2017	09:39	0.020	U	0.020	0.100	***0.050***
106-46-7	1,4-Dichlorobenzene	04/21/2017	09:39	0.03	U	0.03	0.10	***0.05***
544-10-5	1-Chlorohexane	04/21/2017	09:39	0.04	U	0.04	0.10	***0.05***
594-20-7	2,2-Dichloropropane	04/21/2017	09:39	0.019	U	0.019	0.100	***0.050***
78-93-3	2-Butanone	04/21/2017	09:39	0.5	U	0.5	1.0	***0.5***

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1A-2

VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	857932
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	136990	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
95-49-8	2-Chlorotoluene	04/21/2017	09:39	0.03	U	0.03	0.10	***0.05***
591-78-6	2-Hexanone	04/21/2017	09:39	0.12	U	0.12	1.00	***0.50***
106-43-4	4-Chlorotoluene	04/21/2017	09:39	0.030	U	0.030	0.100	***0.050***
108-10-1	4-Methyl-2-pentanone	04/21/2017	09:39	0.18	U	0.18	1.00	***0.50***
67-64-1	Acetone	04/21/2017	09:39	0.9	U	0.9	2.0	***1.0***
71-43-2	Benzene	04/21/2017	09:39	0.008	U	0.008	0.100	***0.050***
108-86-1	Bromobenzene	04/21/2017	09:39	0.026	U	0.026	0.100	***0.050***
74-97-5	Bromochloromethane	04/21/2017	09:39	0.03	U	0.03	0.10	***0.05***
75-27-4	Bromodichloromethane	04/21/2017	09:39	0.016	U	0.016	0.100	***0.050***
75-25-2	Bromoform	04/21/2017	09:39	0.019	U	0.019	0.100	***0.050***
74-83-9	Bromomethane	04/21/2017	09:39	0.038	U	0.038	0.100	***0.050***
75-15-0	Carbon disulfide	04/21/2017	09:39	0.07	U	0.07	0.20	***0.10***
56-23-5	Carbon tetrachloride	04/21/2017	09:39	0.018	U	0.018	0.100	***0.050***
108-90-7	Chlorobenzene	04/21/2017	09:39	0.03	U	0.03	0.10	***0.05***
75-00-3	Chloroethane	04/21/2017	09:39	0.07	U	0.07	0.20	***0.10***
67-66-3	Chloroform	04/21/2017	09:39	0.010	U	0.010	0.100	***0.050***
74-87-3	Chloromethane	04/21/2017	09:39	0.0305	B	0.026	0.100	***0.050***
156-59-2	cis-1,2-Dichloroethene	04/21/2017	09:39	0.022	U	0.022	0.100	***0.050***
10061-01-5	cis-1,3-Dichloropropene	04/21/2017	09:39	0.012	U	0.012	0.100	***0.050***
124-48-1	Dibromochloromethane	04/21/2017	09:39	0.018	U	0.018	0.100	***0.050***
74-95-3	Dibromomethane	04/21/2017	09:39	0.010	U	0.010	0.100	***0.050***
75-71-8	Dichlorodifluoromethane	04/21/2017	09:39	0.013	U	0.013	0.100	***0.050***
100-41-4	Ethylbenzene	04/21/2017	09:39	0.027	U	0.027	0.100	***0.050***

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1A-2

VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	857932
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	136990	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LW040917	Concentration Units:	ug/L

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
76-13-1	Freon 113	04/21/2017	09:39	0.05	U	0.05	0.20	***0.10***
87-68-3	Hexachlorobutadiene	04/21/2017	09:39	0.03	U	0.03	0.10	***0.05***
74-88-4	Iodomethane	04/21/2017	09:39	0.08	U	0.08	0.40	***0.20***
98-82-8	Isopropylbenzene	04/21/2017	09:39	0.026	U	0.026	0.100	***0.050***
179601-23-1	m & p-Xylene	04/21/2017	09:39	0.06	U	0.06	0.20	***0.10***
1634-04-4	Methyl tert-butyl ether	04/21/2017	09:39	0.025	U	0.025	0.100	***0.050***
75-09-2	Methylene chloride	04/21/2017	09:39	0.06	U	0.06	1.00	***0.5***
91-20-3	Naphthalene	04/21/2017	09:39	0.04	U	0.04	0.10	***0.05***
104-51-8	n-Butylbenzene	04/21/2017	09:39	0.027	U	0.027	0.100	***0.050***
103-65-1	n-Propylbenzene	04/21/2017	09:39	0.03	U	0.03	0.10	***0.05***
95-47-6	o-Xylene	04/21/2017	09:39	0.026	U	0.026	0.100	***0.050***
99-87-6	p-Isopropyltoluene	04/21/2017	09:39	0.025	U	0.025	0.100	***0.050***
135-98-8	sec-Butylbenzene	04/21/2017	09:39	0.024	U	0.024	0.100	***0.050***
100-42-5	Styrene	04/21/2017	09:39	0.024	U	0.024	0.100	***0.050***
98-06-6	tert-Butylbenzene	04/21/2017	09:39	0.026	U	0.026	0.100	***0.050***
127-18-4	Tetrachloroethene	04/21/2017	09:39	0.010	U	0.010	0.100	***0.050***
108-88-3	Toluene	04/21/2017	09:39	0.011	U	0.011	0.100	***0.050***
156-60-5	trans-1,2-Dichloroethene	04/21/2017	09:39	0.026	U	0.026	0.100	***0.050***
10061-02-6	trans-1,3-Dichloropropene	04/21/2017	09:39	0.014	U	0.014	0.100	***0.050***
79-01-6	Trichloroethene	04/21/2017	09:39	0.020	U	0.020	0.100	***0.050***
75-69-4	Trichlorofluoromethane	04/21/2017	09:39	0.022	U	0.022	0.200	***0.100***
108-05-4	Vinyl acetate	04/21/2017	09:39	0.25	U	0.25	1.0	***0.5***
75-01-4	Vinyl chloride	04/21/2017	09:39	0.019	U	0.019	0.100	***0.050***

CT LABORATORIES
delivering more than data from your environmental analyses

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	858782
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	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	04/27/2017	22:37	0.3	U	0.3	2.0	***1.0***
71-55-6	1,1,1-Trichloroethane	04/27/2017	22:37	0.3	U	0.3	2.0	***1.0***
79-34-5	1,1,2,2-Tetrachloroethane	04/27/2017	22:37	0.5	U	0.5	2.0	***1.0***
79-00-5	1,1,2-Trichloroethane	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
75-34-3	1,1-Dichloroethane	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
75-35-4	1,1-Dichloroethene	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
563-58-6	1,1-Dichloropropene	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
87-61-6	1,2,3-Trichlorobenzene	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
96-18-4	1,2,3-Trichloropropane	04/27/2017	22:37	0.5	U	0.5	2.0	***1.0***
120-82-1	1,2,4-Trichlorobenzene	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
95-63-6	1,2,4-Trimethylbenzene	04/27/2017	22:37	0.8	U	0.8	4.0	***2.0***
96-12-8	1,2-Dibromo-3-chloropropane	04/27/2017	22:37	1.3	U	1.3	4.0	***2.0***
106-93-4	1,2-Dibromoethane	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
95-50-1	1,2-Dichlorobenzene	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
107-06-2	1,2-Dichloroethane	04/27/2017	22:37	0.5	U	0.5	2.0	***1.0***
78-87-5	1,2-Dichloropropane	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
108-67-8	1,3,5-Trimethylbenzene	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
541-73-1	1,3-Dichlorobenzene	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
142-28-9	1,3-Dichloropropane	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
106-46-7	1,4-Dichlorobenzene	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
544-10-5	1-Chlorohexane	04/27/2017	22:37	0.6	U	0.6	2.0	***1.0***
594-20-7	2,2-Dichloropropane	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
78-93-3	2-Butanone	04/27/2017	22:37	10	U	10	40	***20***

CT LABORATORIES
delivering more than data from your environmental analyses

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	858782
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
95-49-8	2-Chlorotoluene	04/27/2017	22:37	1.0	U	1.0	4.0	***2.0***
591-78-6	2-Hexanone	04/27/2017	22:37	11	U	11	40	***20***
106-43-4	4-Chlorotoluene	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
108-10-1	4-Methyl-2-pentanone	04/27/2017	22:37	10	U	10	40	***20***
67-64-1	Acetone	04/27/2017	22:37	10	U	10	40	***20***
71-43-2	Benzene	04/27/2017	22:37	0.3	U	0.3	2.0	***1.0***
108-86-1	Bromobenzene	04/27/2017	22:37	0.5	U	0.5	2.0	***1.0***
74-97-5	Bromochloromethane	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
75-27-4	Bromodichloromethane	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
75-25-2	Bromoform	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
74-83-9	Bromomethane	04/27/2017	22:37	0.7	U	0.7	4.0	***2.0***
75-15-0	Carbon disulfide	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
56-23-5	Carbon tetrachloride	04/27/2017	22:37	0.3	U	0.3	2.0	***1.0***
108-90-7	Chlorobenzene	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
75-00-3	Chloroethane	04/27/2017	22:37	0.5	U	0.5	2.0	***1.0***
67-66-3	Chloroform	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
74-87-3	Chloromethane	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
156-59-2	cis-1,2-Dichloroethene	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
10061-01-5	cis-1,3-Dichloropropene	04/27/2017	22:37	0.3	U	0.3	2.0	***1.0***
124-48-1	Dibromochloromethane	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
74-95-3	Dibromomethane	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
75-71-8	Dichlorodifluoromethane	04/27/2017	22:37	1.0	U	1.0	4.0	***2.0***
100-41-4	Ethylbenzene	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***

CT LABORATORIES
delivering more than data from your environmental analyses

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description

METHOD BLANK

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	858782
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:15
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62086
Analytical Run #:	137136	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
76-13-1	Freon 113	04/27/2017	22:37	1.0	U	1.0	4.0	***2.0***
87-68-3	Hexachlorobutadiene	04/27/2017	22:37	1.0	U	1.0	4.0	***2.0***
74-88-4	Iodomethane	04/27/2017	22:37	0.500	B	0.3	4.0	***2.0***
98-82-8	Isopropylbenzene	04/27/2017	22:37	0.3	U	0.3	2.0	***1.0***
179601-23-1	m & p-Xylene	04/27/2017	22:37	0.7	U	0.7	4.0	***2.0***
1634-04-4	Methyl tert-butyl ether	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
75-09-2	Methylene chloride	04/27/2017	22:37	1.7	U	1.7	4.0	***2.0***
91-20-3	Naphthalene	04/27/2017	22:37	1.0	U	1.0	4.0	***2.0***
104-51-8	n-Butylbenzene	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
103-65-1	n-Propylbenzene	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
95-47-6	o-Xylene	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
99-87-6	p-Isopropyltoluene	04/27/2017	22:37	1.0	U	1.0	4.0	***2.0***
135-98-8	sec-Butylbenzene	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
100-42-5	Styrene	04/27/2017	22:37	0.3	U	0.3	2.0	***1.0***
98-06-6	tert-Butylbenzene	04/27/2017	22:37	0.9	U	0.9	4.0	***2.0***
127-18-4	Tetrachloroethene	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
108-88-3	Toluene	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
156-60-5	trans-1,2-Dichloroethene	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
10061-02-6	trans-1,3-Dichloropropene	04/27/2017	22:37	0.4	U	0.4	2.0	***1.0***
79-01-6	Trichloroethene	04/27/2017	22:37	0.3	U	0.3	2.0	***1.0***
75-69-4	Trichlorofluoromethane	04/27/2017	22:37	0.5	U	0.5	2.0	***1.0***
108-05-4	Vinyl acetate	04/27/2017	22:37	12	U	12	40	***20***
75-01-4	Vinyl chloride	04/27/2017	22:37	0.5	U	0.5	2.0	***1.0***

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

METHOD BLANK

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	858787
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	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	04/28/2017	10:42	0.3	U	0.3	2.0	***1.0***
71-55-6	1,1,1-Trichloroethane	04/28/2017	10:42	0.3	U	0.3	2.0	***1.0***
79-34-5	1,1,2,2-Tetrachloroethane	04/28/2017	10:42	0.5	U	0.5	2.0	***1.0***
79-00-5	1,1,2-Trichloroethane	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
75-34-3	1,1-Dichloroethane	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
75-35-4	1,1-Dichloroethene	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
563-58-6	1,1-Dichloropropene	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
87-61-6	1,2,3-Trichlorobenzene	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
96-18-4	1,2,3-Trichloropropane	04/28/2017	10:42	0.5	U	0.5	2.0	***1.0***
120-82-1	1,2,4-Trichlorobenzene	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
95-63-6	1,2,4-Trimethylbenzene	04/28/2017	10:42	0.8	U	0.8	4.0	***2.0***
96-12-8	1,2-Dibromo-3-chloropropane	04/28/2017	10:42	1.3	U	1.3	4.0	***2.0***
106-93-4	1,2-Dibromoethane	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
95-50-1	1,2-Dichlorobenzene	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
107-06-2	1,2-Dichloroethane	04/28/2017	10:42	0.5	U	0.5	2.0	***1.0***
78-87-5	1,2-Dichloropropane	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
108-67-8	1,3,5-Trimethylbenzene	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
541-73-1	1,3-Dichlorobenzene	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
142-28-9	1,3-Dichloropropane	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
106-46-7	1,4-Dichlorobenzene	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
544-10-5	1-Chlorohexane	04/28/2017	10:42	0.6	U	0.6	2.0	***1.0***
594-20-7	2,2-Dichloropropane	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
78-93-3	2-Butanone	04/28/2017	10:42	10	U	10	40	***20***

CT LABORATORIES
delivering more than data from your environmental analyses

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **METHOD BLANK**

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	858787
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
95-49-8	2-Chlorotoluene	04/28/2017	10:42	1.0	U	1.0	4.0	***2.0***
591-78-6	2-Hexanone	04/28/2017	10:42	11	U	11	40	***20***
106-43-4	4-Chlorotoluene	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
108-10-1	4-Methyl-2-pentanone	04/28/2017	10:42	10	U	10	40	***20***
67-64-1	Acetone	04/28/2017	10:42	10	U	10	40	***20***
71-43-2	Benzene	04/28/2017	10:42	0.3	U	0.3	2.0	***1.0***
108-86-1	Bromobenzene	04/28/2017	10:42	0.5	U	0.5	2.0	***1.0***
74-97-5	Bromochloromethane	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
75-27-4	Bromodichloromethane	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
75-25-2	Bromoform	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
74-83-9	Bromomethane	04/28/2017	10:42	0.7	U	0.7	4.0	***2.0***
75-15-0	Carbon disulfide	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
56-23-5	Carbon tetrachloride	04/28/2017	10:42	0.3	U	0.3	2.0	***1.0***
108-90-7	Chlorobenzene	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
75-00-3	Chloroethane	04/28/2017	10:42	0.5	U	0.5	2.0	***1.0***
67-66-3	Chloroform	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
74-87-3	Chloromethane	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
156-59-2	cis-1,2-Dichloroethene	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
10061-01-5	cis-1,3-Dichloropropene	04/28/2017	10:42	0.3	U	0.3	2.0	***1.0***
124-48-1	Dibromochloromethane	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
74-95-3	Dibromomethane	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
75-71-8	Dichlorodifluoromethane	04/28/2017	10:42	1.40	B	1.0	4.0	***2.0***
100-41-4	Ethylbenzene	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***

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:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	5.00 (g/mL)	CTL Sample ID:	858787
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	5.0 (mL)	Date/Time Prepared:	04/26/2017 / 21:35
Analytical Method:	EPA 8260C	Analytical Prep Batch #	62087
Analytical Run #:	137137	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042717	Concentration Units:	ug/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
76-13-1	Freon 113	04/28/2017	10:42	1.0	U	1.0	4.0	***2.0***
87-68-3	Hexachlorobutadiene	04/28/2017	10:42	1.0	U	1.0	4.0	***2.0***
74-88-4	Iodomethane	04/28/2017	10:42	0.3	U	0.3	4.0	***2.0***
98-82-8	Isopropylbenzene	04/28/2017	10:42	0.3	U	0.3	2.0	***1.0***
179601-23-1	m & p-Xylene	04/28/2017	10:42	0.7	U	0.7	4.0	***2.0***
1634-04-4	Methyl tert-butyl ether	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
75-09-2	Methylene chloride	04/28/2017	10:42	1.7	U	1.7	4.0	***2.0***
91-20-3	Naphthalene	04/28/2017	10:42	1.0	U	1.0	4.0	***2.0***
104-51-8	n-Butylbenzene	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
103-65-1	n-Propylbenzene	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
95-47-6	o-Xylene	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
99-87-6	p-Isopropyltoluene	04/28/2017	10:42	1.0	U	1.0	4.0	***2.0***
135-98-8	sec-Butylbenzene	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
100-42-5	Styrene	04/28/2017	10:42	0.3	U	0.3	2.0	***1.0***
98-06-6	tert-Butylbenzene	04/28/2017	10:42	0.9	U	0.9	4.0	***2.0***
127-18-4	Tetrachloroethene	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
108-88-3	Toluene	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
156-60-5	trans-1,2-Dichloroethene	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
10061-02-6	trans-1,3-Dichloropropene	04/28/2017	10:42	0.4	U	0.4	2.0	***1.0***
79-01-6	Trichloroethene	04/28/2017	10:42	0.3	U	0.3	2.0	***1.0***
75-69-4	Trichlorofluoromethane	04/28/2017	10:42	0.5	U	0.5	2.0	***1.0***
108-05-4	Vinyl acetate	04/28/2017	10:42	12	U	12	40	***20***
75-01-4	Vinyl chloride	04/28/2017	10:42	0.5	U	0.5	2.0	***1.0***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	861120
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	137136	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	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	04/28/2017	10:42	0.0003	U	0.0003	0.0020	***0.0010***
71-55-6	1,1,1-Trichloroethane	04/28/2017	10:42	0.0003	U	0.0003	0.0020	***0.0010***
79-34-5	1,1,2,2-Tetrachloroethane	04/28/2017	10:42	0.0005	U	0.0005	0.0020	***0.0010***
79-00-5	1,1,2-Trichloroethane	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
75-34-3	1,1-Dichloroethane	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
75-35-4	1,1-Dichloroethene	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
563-58-6	1,1-Dichloropropene	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
87-61-6	1,2,3-Trichlorobenzene	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
96-18-4	1,2,3-Trichloropropane	04/28/2017	10:42	0.0005	U	0.0005	0.0020	***0.0010***
120-82-1	1,2,4-Trichlorobenzene	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
95-63-6	1,2,4-Trimethylbenzene	04/28/2017	10:42	0.0008	U	0.0008	0.0040	***0.0020***
96-12-8	1,2-Dibromo-3-chloropropane	04/28/2017	10:42	0.0013	U	0.0013	0.0040	***0.0020***
106-93-4	1,2-Dibromoethane	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
95-50-1	1,2-Dichlorobenzene	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
107-06-2	1,2-Dichloroethane	04/28/2017	10:42	0.0005	U	0.0005	0.0020	***0.0010***
78-87-5	1,2-Dichloropropane	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
108-67-8	1,3,5-Trimethylbenzene	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
541-73-1	1,3-Dichlorobenzene	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
142-28-9	1,3-Dichloropropane	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
106-46-7	1,4-Dichlorobenzene	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
544-10-5	1-Chlorohexane	04/28/2017	10:42	0.0006	U	0.0006	0.0020	***0.0010***
594-20-7	2,2-Dichloropropane	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
78-93-3	2-Butanone	04/28/2017	10:42	0.010	U	0.010	0.040	***0.020***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	861120
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	137136	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
95-49-8	2-Chlorotoluene	04/28/2017	10:42	0.0010	U	0.0010	0.0040	***0.0020***
591-78-6	2-Hexanone	04/28/2017	10:42	0.011	U	0.011	0.040	***0.020***
106-43-4	4-Chlorotoluene	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
108-10-1	4-Methyl-2-pentanone	04/28/2017	10:42	0.010	U	0.010	0.040	***0.020***
67-64-1	Acetone	04/28/2017	10:42	0.010	U	0.010	0.040	***0.020***
71-43-2	Benzene	04/28/2017	10:42	0.0003	U	0.0003	0.0020	***0.0010***
108-86-1	Bromobenzene	04/28/2017	10:42	0.0005	U	0.0005	0.0020	***0.0010***
74-97-5	Bromochloromethane	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
75-27-4	Bromodichloromethane	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
75-25-2	Bromoform	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
74-83-9	Bromomethane	04/28/2017	10:42	0.0007	U	0.0007	0.0040	***0.0020***
75-15-0	Carbon disulfide	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
56-23-5	Carbon tetrachloride	04/28/2017	10:42	0.0003	U	0.0003	0.0020	***0.0010***
108-90-7	Chlorobenzene	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
75-00-3	Chloroethane	04/28/2017	10:42	0.0005	U	0.0005	0.0020	***0.0010***
67-66-3	Chloroform	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
74-87-3	Chloromethane	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
156-59-2	cis-1,2-Dichloroethene	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
10061-01-5	cis-1,3-Dichloropropene	04/28/2017	10:42	0.0003	U	0.0003	0.0020	***0.0010***
124-48-1	Dibromochloromethane	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
74-95-3	Dibromomethane	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
75-71-8	Dichlorodifluoromethane	04/28/2017	10:42	0.00140	B	0.0010	0.0040	***0.0020***
100-41-4	Ethylbenzene	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***

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VOLATILE ORGANICS ANALYSIS (MB or CCB)

Sample Description: **CCB**

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix:		SDG No.:	126716
Sample wt/vol:	(g/mL)	CTL Sample ID:	861120
% Solids:		Date Received:	04/19/2017
Soil Extract Vol:	(mL)	Date/Time Prepared:	/
Analytical Method:	EPA 8260C	Analytical Prep Batch #	0
Analytical Run #:	137136	Dilution Factor:	1.00
Cleanup Date/Time/Type:	. . ,		
TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*):			/
ICAL Calibration #:	LS042617	Concentration Units:	mg/kg

CAS NO.	Analyte	Analysis Date/Time		Concentration	Qualifiers	DL/LOD	RL	*Control Limit*
76-13-1	Freon 113	04/28/2017	10:42	0.0010	U	0.0010	0.0040	***0.0020***
87-68-3	Hexachlorobutadiene	04/28/2017	10:42	0.0010	U	0.0010	0.0040	***0.0020***
74-88-4	Iodomethane	04/28/2017	10:42	0.0003	U	0.0003	0.0040	***0.0020***
98-82-8	Isopropylbenzene	04/28/2017	10:42	0.0003	U	0.0003	0.0020	***0.0010***
179601-23-1	m & p-Xylene	04/28/2017	10:42	0.0007	U	0.0007	0.0040	***0.0020***
1634-04-4	Methyl tert-butyl ether	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
75-09-2	Methylene chloride	04/28/2017	10:42	0.0017	U	0.0017	0.004	***0.002***
91-20-3	Naphthalene	04/28/2017	10:42	0.0010	U	0.0010	0.0040	***0.0020***
104-51-8	n-Butylbenzene	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
103-65-1	n-Propylbenzene	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
95-47-6	o-Xylene	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
99-87-6	p-Isopropyltoluene	04/28/2017	10:42	0.0010	U	0.0010	0.0040	***0.0020***
135-98-8	sec-Butylbenzene	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
100-42-5	Styrene	04/28/2017	10:42	0.0003	U	0.0003	0.0020	***0.0010***
98-06-6	tert-Butylbenzene	04/28/2017	10:42	0.0009	U	0.0009	0.0040	***0.0020***
127-18-4	Tetrachloroethene	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
108-88-3	Toluene	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
156-60-5	trans-1,2-Dichloroethene	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
10061-02-6	trans-1,3-Dichloropropene	04/28/2017	10:42	0.0004	U	0.0004	0.0020	***0.0010***
79-01-6	Trichloroethene	04/28/2017	10:42	0.0003	U	0.0003	0.0020	***0.0010***
75-69-4	Trichlorofluoromethane	04/28/2017	10:42	0.0005	U	0.0005	0.0020	***0.0010***
108-05-4	Vinyl acetate	04/28/2017	10:42	0.012	U	0.012	0.040	***0.020***
75-01-4	Vinyl chloride	04/28/2017	10:42	0.0005	U	0.0005	0.0020	***0.0010***

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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD P

Analytical Method: EPA 8260C | SDG: 126716

Analytical Run #: 136990 | ICAL Calibration #: LW040917

CTLab #	856724				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	81	118	
Bromofluorobenzene	100	100	85	114	
d8-Toluene	100	104	89	112	
Dibromofluoromethane	100	106	80	119	
CTLab #	**856725**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	99	81	118	
Bromofluorobenzene	100	101	85	114	
d8-Toluene	100	104	89	112	
Dibromofluoromethane	100	105	80	119	
CTLab #	**856732**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	81	118	
Bromofluorobenzene	100	100	85	114	
d8-Toluene	100	105	89	112	
Dibromofluoromethane	100	105	80	119	
CTLab #	**856733**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	81	118	
Bromofluorobenzene	100	100	85	114	
d8-Toluene	100	105	89	112	
Dibromofluoromethane	100	104	80	119	
CTLab #	**857898**	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	102	89	112	
Dibromofluoromethane	100	102	80	119	
CTLab #	**857900**	Sample Type:		Normal Field Sample	
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	102	80	120	
Dibromofluoromethane	100	102	80	120	

CT LABORATORIES
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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD P
Analytical Method:	EPA 8260C	SDG:	126716
Analytical Run #:	136990	ICAL Calibration #:	LW040917

CTLab #	857932	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	105	85	120	
Dibromofluoromethane	100	105	85	115	

CTLab #	858359	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	97.0	81	118	
Bromofluorobenzene	100	99.0	85	114	
d8-Toluene	100	101	89	112	
Dibromofluoromethane	100	98.0	80	119	

CTLab #	858360	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	97.0	50	150	
Bromofluorobenzene	100	99.0	50	150	
d8-Toluene	100	101	50	150	
Dibromofluoromethane	100	98.0	50	150	

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2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD P

Analytical Method: EPA 8260C | SDG: 126716

Analytical Run #: 137136 | ICAL Calibration #: LS042617

CTLab #	856713				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	105	78	119	

CTLab #	856716				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	

CTLab #	856717				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	

CTLab #	856718				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	105	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	

CTLab #	856719				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	

CTLab #	856720				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	

CT LABORATORIES
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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD P

Analytical Method: EPA 8260C | SDG: 126716

Analytical Run #: 137136 | ICAL Calibration #: LS042617

CTLab #	856721				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	105	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**856722**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**856723**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	105	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**856726**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**856727**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**856728**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	105	78	119	

CT LABORATORIES
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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD P

Analytical Method: EPA 8260C | SDG: 126716

Analytical Run #: 137136 | ICAL Calibration #: LS042617

CTLab #	856729				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**856730**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**856731**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**856734**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	95	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**856737**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**856738**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	105	78	119	

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2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD P

Analytical Method: EPA 8260C | SDG: 126716

Analytical Run #: 137136 | ICAL Calibration #: LS042617

CTLab #	858782	Sample Type:		Method Blank	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	95.0	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**858783**	Sample Type:		Lab Control Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**858785**	Sample Type:		Matrix Spike	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**858786**	Sample Type:		Matrix Spike Duplicate	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	95.0	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**860863**	Sample Type:		Normal Field Sample	
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	100	80	120	
Dibromofluoromethane	100	100	80	120	
CTLab #	**860921**	Sample Type:		Normal Field Sample	
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	50	150	
Bromofluorobenzene	100	100	50	150	
d8-Toluene	100	100	50	150	
Dibromofluoromethane	100	100	50	150	

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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD P
Analytical Method:	EPA 8260C	SDG:	126716
Analytical Run #:	137136	ICAL Calibration #:	LS042617

CTLab #	860940	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	80	120	
Bromofluorobenzene	100	95.0	80	120	
d8-Toluene	100	100	80	120	
Dibromofluoromethane	100	100	80	120	

CTLab #	861120	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	52	115	
Bromofluorobenzene	100	100	85	120	
d8-Toluene	100	100	85	115	
Dibromofluoromethane	100	100	54	117	

CTLab #	863484	Sample Type:	Normal Field Sample		
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	100	50	150	
Dibromofluoromethane	100	100	50	150	

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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD P

Analytical Method: EPA 8260C | SDG: 126716

Analytical Run #: 137137 | ICAL Calibration #: LS042717

CTLab #	856739				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**856740**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**856741**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**856742**				
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	110	71	136	
Bromofluorobenzene	100	100	79	119	
d8-Toluene	100	105	85	116	
Dibromofluoromethane	100	105	78	119	
CTLab #	**858787**	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	100	85	116	
Dibromofluoromethane	100	100	78	119	
CTLab #	**858788**	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	100	85	116	
Dibromofluoromethane	100	100	78	119	

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SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD P
Analytical Method:	EPA 8260C	SDG:	126716
Analytical Run #:	137137	ICAL Calibration #:	LS042717

CTLab #	858789	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	105	71	136	
Bromofluorobenzene	100	95.0	79	119	
d8-Toluene	100	100	85	116	
Dibromofluoromethane	100	100	78	119	

CTLab #	860939	Sample Type:	Normal Field Sample		
Surrogate	**Spike Amount**	**% Recovery**	**Lower Limit**	**Upper Limit**	**Qualifier**
1,2 Dichloroethane-d4	100	100	80	120	
Bromofluorobenzene	100	95.0	80	120	
d8-Toluene	100	100	80	120	
Dibromofluoromethane	100	100	80	120	

CTLab #	863482	Sample Type:	Normal Field Sample		
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	100	50	150	
Dibromofluoromethane	100	100	50	150	

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Sample Description

WATER VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE I

Sample No.: 857898

SDG No.: 126716

Analytical Method: EPA 8260C

Concentration Units: ug/L

Sample No.: 857898

Parent Sample No.: 0

Analytical Prep Batch #: 0

Analytical Preparation Date/Time:

Analytical Run #: 136990

ICAL Calibration #: LW040917

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1,2-Tetrachloroethane	04/21/2017	08:43	78-124	3.75		4.00	94
1,1,1-Trichloroethane	04/21/2017	08:43	74-131	3.87		4.00	97
1,1,2,2-Tetrachloroethane	04/21/2017	08:43	71-121	3.27		4.00	82
1,1,2-Trichloroethane	04/21/2017	08:43	80-119	3.82		4.00	96
1,1-Dichloroethane	04/21/2017	08:43	77-125	3.75		4.00	94
1,1-Dichloroethene	04/21/2017	08:43	71-131	3.88		4.00	97
1,1-Dichloropropene	04/21/2017	08:43	79-125	4.10		4.00	102
1,2,3-Trichlorobenzene	04/21/2017	08:43	69-129	3.47		4.00	87
1,2,3-Trichloropropane	04/21/2017	08:43	73-122	4.07		4.00	102
1,2,4-Trichlorobenzene	04/21/2017	08:43	69-130	3.41		4.00	85
1,2,4-Trimethylbenzene	04/21/2017	08:43	76-124	3.53		4.00	88
1,2-Dibromo-3-chloropropane	04/21/2017	08:43	62-128	3.36		4.00	84
1,2-Dibromoethane	04/21/2017	08:43	77-121	3.68		4.00	92
1,2-Dichlorobenzene	04/21/2017	08:43	80-119	3.32		4.00	83
1,2-Dichloroethane	04/21/2017	08:43	73-128	3.82		4.00	96
1,2-Dichloropropane	04/21/2017	08:43	78-122	3.79		4.00	95
1,3,5-Trimethylbenzene	04/21/2017	08:43	75-124	3.63		4.00	91
1,3-Dichlorobenzene	04/21/2017	08:43	80-119	3.40		4.00	85
1,3-Dichloropropane	04/21/2017	08:43	80-119	3.86		4.00	96
1,4-Dichlorobenzene	04/21/2017	08:43	79-118	3.42		4.00	86
1-Chlorohexane	04/21/2017	08:43	76-124	3.89		4.00	97
2,2-Dichloropropane	04/21/2017	08:43	60-139	3.95		4.00	99
2-Butanone	04/21/2017	08:43	56-143	38.0		40.0	95
2-Chlorotoluene	04/21/2017	08:43	79-122	3.41		4.00	85
2-Hexanone	04/21/2017	08:43	57-139	37.0		40.0	92
4-Chlorotoluene	04/21/2017	08:43	78-122	3.48		4.00	87
4-Methyl-2-pentanone	04/21/2017	08:43	67-130	39.0		40.0	98
Acetone	04/21/2017	08:43	39-160	39.2		40.0	98

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Sample Description

WATER VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE I

Sample No.: 857898

SDG No.: 126716

Analytical Method: EPA 8260C

Concentration Units: ug/L

Sample No.: 857898

Parent Sample No.: 0

Analytical Prep Batch #: 0

Analytical Preparation Date/Time:

Analytical Run #: 136990

ICAL Calibration #: LW040917

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Benzene	04/21/2017	08:43	79-120	3.73		4.00	93
Bromobenzene	04/21/2017	08:43	80-120	3.40		4.00	85
Bromochloromethane	04/21/2017	08:43	78-123	3.72		4.00	93
Bromodichloromethane	04/21/2017	08:43	79-125	3.69		4.00	92
Bromoform	04/21/2017	08:43	66-130	3.27		4.00	82
Bromomethane	04/21/2017	08:43	53-141	4.28		4.00	107
Carbon disulfide	04/21/2017	08:43	64-133	7.57		8.00	95
Carbon tetrachloride	04/21/2017	08:43	72-136	4.30		4.00	108
Chlorobenzene	04/21/2017	08:43	82-118	3.64		4.00	91
Chloroethane	04/21/2017	08:43	60-138	3.96		4.00	99
Chloroform	04/21/2017	08:43	79-124	3.65		4.00	91
Chloromethane	04/21/2017	08:43	50-139	3.57		4.00	89
cis-1,2-Dichloroethene	04/21/2017	08:43	78-123	3.65		4.00	91
cis-1,3-Dichloropropene	04/21/2017	08:43	75-124	3.96		4.00	99
Dibromochloromethane	04/21/2017	08:43	74-126	3.85		4.00	96
Dibromomethane	04/21/2017	08:43	79-123	4.07		4.00	102
Dichlorodifluoromethane	04/21/2017	08:43	32-152	3.68		4.00	92
Ethylbenzene	04/21/2017	08:43	79-121	3.76		4.00	94
Freon 113	04/21/2017	08:43	70-136	8.13		8.00	102
Hexachlorobutadiene	04/21/2017	08:43	66-134	3.47		4.00	87
Iodomethane	04/21/2017	08:43	69-131	8.74		8.00	109
Isopropylbenzene	04/21/2017	08:43	72-131	3.88		4.00	97
m & p-Xylene	04/21/2017	08:43	80-121	7.58		8.00	95
Methyl tert-butyl ether	04/21/2017	08:43	71-124	3.88		4.00	97
Methylene chloride	04/21/2017	08:43	74-124	3.81		4.00	95
Naphthalene	04/21/2017	08:43	61-128	3.54		4.00	88
n-Butylbenzene	04/21/2017	08:43	75-128	3.64		4.00	91
n-Propylbenzene	04/21/2017	08:43	76-126	3.63		4.00	91

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Sample Description

LCS

WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE I

Sample No.: 857898

SDG No.: 126716

Analytical Method: EPA 8260C

Concentration Units: ug/L

Sample No.: 857898

Parent Sample No.: 0

Analytical Prep Batch #: 0

Analytical Preparation Date/Time:

Analytical Run #: 136990

ICAL Calibration #: LW040917

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
o-Xylene	04/21/2017	08:43	78-122	3.67		4.00	92
p-Isopropyltoluene	04/21/2017	08:43	77-127	3.69		4.00	92
sec-Butylbenzene	04/21/2017	08:43	77-126	3.68		4.00	92
Styrene	04/21/2017	08:43	78-123	3.81		4.00	95
tert-Butylbenzene	04/21/2017	08:43	78-124	3.59		4.00	90
Tetrachloroethene	04/21/2017	08:43	74-129	3.91		4.00	98
Toluene	04/21/2017	08:43	80-121	3.76		4.00	94
trans-1,2-Dichloroethene	04/21/2017	08:43	75-124	3.78		4.00	94
trans-1,3-Dichloropropene	04/21/2017	08:43	73-127	4.08		4.00	102
Trichloroethene	04/21/2017	08:43	79-123	3.80		4.00	95
Trichlorofluoromethane	04/21/2017	08:43	65-141	4.30		4.00	108
Vinyl acetate	04/21/2017	08:43	54-146	39.7		40.0	99
Vinyl chloride	04/21/2017	08:43	58-137	3.86		4.00	96

Spike Recovery: 0 out of 69 outside limits

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WATER VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCSD**

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHAS
Sample No.: 858359
SDG No.: 126716
Analytical Method: EPA 8260C
Concentration Units: ug/L

Analytical Run #: 136990 Sample No.: 858359 Parent Sample No.: 857898
Analytical Prep Batch #: 0 Analytical Preparation Date/Time:
ICAL Calibration #: LW040917

Analyte	Analysis Date/Time	Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit (%R)	Control Limit (%RPD)
1,1,1,2-Tetrachloroethane	04/21/2017 19:34	3.83	3.75	4.00	96	2	78-124	20
1,1,1-Trichloroethane	04/21/2017 19:34	4.10	3.87	4.00	102	6	74-131	20
1,1,2,2-Tetrachloroethane	04/21/2017 19:34	3.46	3.27	4.00	86	6	71-121	20
1,1,2-Trichloroethane	04/21/2017 19:34	3.77	3.82	4.00	94	1	80-119	20
1,1-Dichloroethane	04/21/2017 19:34	3.92	3.75	4.00	98	4	77-125	20
1,1-Dichloroethene	04/21/2017 19:34	4.18	3.88	4.00	104	7	71-131	20
1,1-Dichloropropene	04/21/2017 19:34	4.28	4.10	4.00	107	4	79-125	20
1,2,3-Trichlorobenzene	04/21/2017 19:34	3.83	3.47	4.00	96	10	69-129	20
1,2,3-Trichloropropane	04/21/2017 19:34	3.39	4.07	4.00	85	18	73-122	20
1,2,4-Trichlorobenzene	04/21/2017 19:34	3.85	3.41	4.00	96	12	69-130	20
1,2,4-Trimethylbenzene	04/21/2017 19:34	3.93	3.53	4.00	98	11	76-124	20
1,2-Dibromo-3-chloropropane	04/21/2017 19:34	3.53	3.36	4.00	88	5	62-128	20
1,2-Dibromoethane	04/21/2017 19:34	3.76	3.68	4.00	94	2	77-121	20
1,2-Dichlorobenzene	04/21/2017 19:34	3.68	3.32	4.00	92	10	80-119	20
1,2-Dichloroethane	04/21/2017 19:34	3.80	3.82	4.00	95	1	73-128	20
1,2-Dichloropropane	04/21/2017 19:34	3.85	3.79	4.00	96	2	78-122	20
1,3,5-Trimethylbenzene	04/21/2017 19:34	4.04	3.63	4.00	101	11	75-124	20
1,3-Dichlorobenzene	04/21/2017 19:34	3.77	3.40	4.00	94	10	80-119	20
1,3-Dichloropropane	04/21/2017 19:34	3.84	3.86	4.00	96	1	80-119	20
1,4-Dichlorobenzene	04/21/2017 19:34	3.77	3.42	4.00	94	10	79-118	20
1-Chlorohexane	04/21/2017 19:34	4.18	3.89	4.00	104	7	76-124	20
2,2-Dichloropropane	04/21/2017 19:34	3.99	3.95	4.00	100	1	60-139	20
2-Butanone	04/21/2017 19:34	38.3	38.0	40.0	96	1	56-143	20
2-Chlorotoluene	04/21/2017 19:34	3.85	3.41	4.00	96	12	79-122	20
2-Hexanone	04/21/2017 19:34	36.6	37.0	40.0	92	1	57-139	20
4-Chlorotoluene	04/21/2017 19:34	3.89	3.48	4.00	97	11	78-122	20
4-Methyl-2-pentanone	04/21/2017 19:34	37.7	39.0	40.0	94	3	67-130	20
Acetone	04/21/2017 19:34	38.8	39.2	40.0	97	1	39-160	20

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WATER VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCSD**

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHAS
Sample No.: 858359
SDG No.: 126716
Analytical Method: EPA 8260C
Concentration Units: ug/L

Analytical Run #: 136990 Sample No.: 858359 Parent Sample No.: 857898
Analytical Prep Batch #: 0 Analytical Preparation Date/Time:
ICAL Calibration #: LW040917

Analyte	Analysis Date/Time	Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit (%R)	Control Limit (%RPD)
Benzene	04/21/2017 19:34	3.87	3.73	4.00	97	4	79-120	20
Bromobenzene	04/21/2017 19:34	3.71	3.40	4.00	93	9	80-120	20
Bromochloromethane	04/21/2017 19:34	3.90	3.72	4.00	98	5	78-123	20
Bromodichloromethane	04/21/2017 19:34	3.80	3.69	4.00	95	3	79-125	20
Bromoform	04/21/2017 19:34	3.30	3.27	4.00	82	1	66-130	20
Bromomethane	04/21/2017 19:34	4.80	4.28	4.00	120	11	53-141	20
Carbon disulfide	04/21/2017 19:34	7.86	7.57	8.00	98	4	64-133	20
Carbon tetrachloride	04/21/2017 19:34	4.59	4.30	4.00	115	7	72-136	20
Chlorobenzene	04/21/2017 19:34	3.83	3.64	4.00	96	5	82-118	20
Chloroethane	04/21/2017 19:34	4.19	3.96	4.00	105	6	60-138	20
Chloroform	04/21/2017 19:34	3.73	3.65	4.00	93	2	79-124	20
Chloromethane	04/21/2017 19:34	3.88	3.57	4.00	97	8	50-139	20
cis-1,2-Dichloroethene	04/21/2017 19:34	3.86	3.65	4.00	96	6	78-123	20
cis-1,3-Dichloropropene	04/21/2017 19:34	3.93	3.96	4.00	98	1	75-124	20
Dibromochloromethane	04/21/2017 19:34	3.82	3.85	4.00	96	1	74-126	20
Dibromomethane	04/21/2017 19:34	4.02	4.07	4.00	100	1	79-123	20
Dichlorodifluoromethane	04/21/2017 19:34	4.08	3.68	4.00	102	10	32-152	20
Ethylbenzene	04/21/2017 19:34	4.02	3.76	4.00	100	7	79-121	20
Freon 113	04/21/2017 19:34	8.63	8.13	8.00	108	6	70-136	20
Hexachlorobutadiene	04/21/2017 19:34	3.82	3.47	4.00	96	10	66-134	20
Iodomethane	04/21/2017 19:34	9.70	8.74	8.00	121	10	69-131	20
Isopropylbenzene	04/21/2017 19:34	4.16	3.88	4.00	104	7	72-131	20
m & p-Xylene	04/21/2017 19:34	8.14	7.58	8.00	102	7	80-121	20
Methyl tert-butyl ether	04/21/2017 19:34	3.88	3.88	4.00	97	0	71-124	20
Methylene chloride	04/21/2017 19:34	3.71	3.81	4.00	93	3	74-124	20
Naphthalene	04/21/2017 19:34	3.82	3.54	4.00	96	8	61-128	20
n-Butylbenzene	04/21/2017 19:34	4.09	3.64	4.00	102	12	75-128	20
n-Propylbenzene	04/21/2017 19:34	4.07	3.63	4.00	102	11	76-126	20

CT LABORATORIES
delivering more than data from your environmental analyses

3A

WATER VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCSD**

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHAS
Sample No.: 858359
SDG No.: 126716
Analytical Method: EPA 8260C
Concentration Units: ug/L

Analytical Run #: 136990
Sample No.: 858359
Parent Sample No.: 857898
Analytical Prep Batch #: 0
Analytical Preparation Date/Time:
ICAL Calibration #: LW040917

Analyte	Analysis Date/Time	Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit (%R)	Control Limit (%RPD)
o-Xylene	04/21/2017 19:34	3.91	3.67	4.00	98	6	78-122	20
p-Isopropyltoluene	04/21/2017 19:34	4.19	3.69	4.00	105	13	77-127	20
sec-Butylbenzene	04/21/2017 19:34	4.18	3.68	4.00	104	13	77-126	20
Styrene	04/21/2017 19:34	4.01	3.81	4.00	100	5	78-123	20
tert-Butylbenzene	04/21/2017 19:34	4.04	3.59	4.00	101	12	78-124	20
Tetrachloroethene	04/21/2017 19:34	4.17	3.91	4.00	104	6	74-129	20
Toluene	04/21/2017 19:34	3.87	3.76	4.00	97	3	80-121	20
trans-1,2-Dichloroethene	04/21/2017 19:34	3.90	3.78	4.00	98	3	75-124	20
trans-1,3-Dichloropropene	04/21/2017 19:34	4.03	4.08	4.00	101	1	73-127	20
Trichloroethene	04/21/2017 19:34	3.97	3.80	4.00	99	4	79-123	20
Trichlorofluoromethane	04/21/2017 19:34	4.47	4.30	4.00	112	4	65-141	20
Vinyl acetate	04/21/2017 19:34	39.0	39.7	40.0	98	2	54-146	20
Vinyl chloride	04/21/2017 19:34	4.27	3.86	4.00	107	10	58-137	20

RPD or Spike Recovery: 0 out of 69 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description

DF-SB58-11-1704

Lab Name: CT Laboratories Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE II

Matrix: SOIL SDG No.: 126716

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 137136 Sample No.: 858785 Parent Sample No.: 856734

Analytical Prep Batch #: 62086 Analytical Preparation Date/Time: 04/26/2017 21:15

ICAL Calibration #: LS042617

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
1,1,1,2-Tetrachloroethane	04/28/2017	08:08	78-125	11.6	BDL	10.8	107	
1,1,1-Trichloroethane	04/28/2017	08:08	73-130	12.3	BDL	10.8	114	
1,1,2,2-Tetrachloroethane	04/28/2017	08:08	70-124	13.3	BDL	10.8	123	
1,1,2-Trichloroethane	04/28/2017	08:08	78-121	12.7	BDL	10.8	118	
1,1-Dichloroethane	04/28/2017	08:08	76-125	12.5	BDL	10.8	116	
1,1-Dichloroethene	04/28/2017	08:08	70-131	12.5	BDL	10.8	116	
1,1-Dichloropropene	04/28/2017	08:08	76-125	12.8	BDL	10.8	119	
1,2,3-Trichlorobenzene	04/28/2017	08:08	66-130	9.63	BDL	10.8	89	
1,2,3-Trichloropropane	04/28/2017	08:08	73-125	13.0	BDL	10.8	120	
1,2,4-Trichlorobenzene	04/28/2017	08:08	67-129	9.52	BDL	10.8	88	
1,2,4-Trimethylbenzene	04/28/2017	08:08	75-123	10.4	BDL	10.8	96	
1,2-Dibromo-3-chloropropane	04/28/2017	08:08	61-132	11.7	BDL	10.8	108	
1,2-Dibromoethane	04/28/2017	08:08	78-122	12.0	BDL	10.8	111	
1,2-Dichlorobenzene	04/28/2017	08:08	78-121	11.5	BDL	10.8	106	
1,2-Dichloroethane	04/28/2017	08:08	73-128	12.9	BDL	10.8	119	
1,2-Dichloropropane	04/28/2017	08:08	76-123	12.3	BDL	10.8	114	
1,3,5-Trimethylbenzene	04/28/2017	08:08	73-124	11.7	BDL	10.8	108	
1,3-Dichlorobenzene	04/28/2017	08:08	77-121	11.5	BDL	10.8	106	
1,3-Dichloropropane	04/28/2017	08:08	77-121	12.4	BDL	10.8	115	
1,4-Dichlorobenzene	04/28/2017	08:08	75-120	11.2	BDL	10.8	104	
1-Chlorohexane	04/28/2017	08:08	71-130	12.1	BDL	10.8	112	
2,2-Dichloropropane	04/28/2017	08:08	67-133	12.1	BDL	10.8	112	
2-Butanone	04/28/2017	08:08	51-148	139	BDL	108	129	
2-Chlorotoluene	04/28/2017	08:08	75-122	12.1	BDL	10.8	112	
2-Hexanone	04/28/2017	08:08	53-145	137	BDL	108	127	
4-Chlorotoluene	04/28/2017	08:08	72-124	11.7	BDL	10.8	108	
4-Methyl-2-pentanone	04/28/2017	08:08	65-135	153	BDL	108	142	*FAIL*
Acetone	04/28/2017	08:08	36-164	131	22.7	108	100	
Benzene	04/28/2017	08:08	77-121	12.1	BDL	10.8	112	
Bromobenzene	04/28/2017	08:08	78-121	11.7	BDL	10.8	108	
Bromochloromethane	04/28/2017	08:08	78-125	12.1	BDL	10.8	112	

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description

DF-SB58-11-1704

Lab Name: CT Laboratories Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE II

Matrix: SOIL SDG No.: 126716

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 137136 Sample No.: 858785 Parent Sample No.: 856734

Analytical Prep Batch #: 62086 Analytical Preparation Date/Time: 04/26/2017 21:15

ICAL Calibration #: LS042617

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R	
Bromodichloromethane	04/28/2017	08:08	75-127	11.9	BDL	10.8	110	
Bromoform	04/28/2017	08:08	67-132	11.6	BDL	10.8	107	
Bromomethane	04/28/2017	08:08	53-143	13.4	BDL	10.8	124	
Carbon disulfide	04/28/2017	08:08	63-132	25.7	BDL	21.6	119	
Carbon tetrachloride	04/28/2017	08:08	70-135	12.5	BDL	10.8	116	
Chlorobenzene	04/28/2017	08:08	79-120	11.7	BDL	10.8	108	
Chloroethane	04/28/2017	08:08	59-139	12.4	BDL	10.8	115	
Chloroform	04/28/2017	08:08	78-123	12.3	BDL	10.8	114	
Chloromethane	04/28/2017	08:08	50-136	13.2	BDL	10.8	122	
cis-1,2-Dichloroethene	04/28/2017	08:08	77-123	12.2	BDL	10.8	113	
cis-1,3-Dichloropropene	04/28/2017	08:08	74-126	11.2	BDL	10.8	104	
Dibromochloromethane	04/28/2017	08:08	74-126	11.7	BDL	10.8	108	
Dibromomethane	04/28/2017	08:08	78-125	12.4	BDL	10.8	115	
Dichlorodifluoromethane	04/28/2017	08:08	29-149	15.7	BDL	10.8	145	
Ethylbenzene	04/28/2017	08:08	76-122	12.0	BDL	10.8	111	
Freon 113	04/28/2017	08:08	66-136	27.8	BDL	21.6	129	
Hexachlorobutadiene	04/28/2017	08:08	61-135	12.5	BDL	10.8	116	
Iodomethane	04/28/2017	08:08	71-131	18.5	0.300	21.6	84	
Isopropylbenzene	04/28/2017	08:08	68-134	12.1	BDL	10.8	112	
m & p-Xylene	04/28/2017	08:08	77-124	23.4	BDL	21.6	108	
Methyl tert-butyl ether	04/28/2017	08:08	73-125	12.5	BDL	10.8	116	
Methylene chloride	04/28/2017	08:08	70-128	12.1	BDL	10.8	112	
Naphthalene	04/28/2017	08:08	62-129	8.55	BDL	10.8	79	
n-Butylbenzene	04/28/2017	08:08	70-128	12.5	BDL	10.8	116	
n-Propylbenzene	04/28/2017	08:08	73-125	12.4	BDL	10.8	115	
o-Xylene	04/28/2017	08:08	77-123	11.4	BDL	10.8	106	
p-Isopropyltoluene	04/28/2017	08:08	73-127	11.9	BDL	10.8	110	
sec-Butylbenzene	04/28/2017	08:08	73-126	13.1	BDL	10.8	121	
Styrene	04/28/2017	08:08	76-124	2.27	BDL	10.8	21	*FAIL*
tert-Butylbenzene	04/28/2017	08:08	73-125	12.4	BDL	10.8	115	
Tetrachloroethene	04/28/2017	08:08	73-128	16.4	BDL	10.8	152	*FAIL*

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE RECOVERY

Sample Description

DF-SB58-11-1704

Lab Name: CT Laboratories Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE II

Matrix: SOIL SDG No.: 126716

Analytical Method: EPA 8260C Concentration Units: ug/kg

Analytical Run #: 137136 Sample No.: 858785 Parent Sample No.: 856734

Analytical Prep Batch #: 62086 Analytical Preparation Date/Time: 04/26/2017 21:15

ICAL Calibration #: LS042617

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Toluene	04/28/2017	08:08	77-121	12.4	0.401	10.8	111
trans-1,2-Dichloroethene	04/28/2017	08:08	74-125	12.2	BDL	10.8	113
trans-1,3-Dichloropropene	04/28/2017	08:08	71-130	11.2	BDL	10.8	104
Trichloroethene	04/28/2017	08:08	77-123	12.2	BDL	10.8	113
Trichlorofluoromethane	04/28/2017	08:08	62-140	13.0	BDL	10.8	120
Vinyl acetate	04/28/2017	08:08	50-151	58.1	BDL	108	54
Vinyl chloride	04/28/2017	08:08	56-135	13.4	BDL	10.8	124

Spike Recovery: 3 out of 69 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Sample Description

DF-SB58-11-1704

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE

Matrix: SOIL | SDG No.: 126716

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 137136 | Sample No.: 858786 | Parent Sample No.: 858785

Analytical Prep Batch #: 62086 | Analytical Preparation Date/Time: 04/26/2017 21:15

ICAL Calibration #: LS042717

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
1,1,1,2-Tetrachloroethane	04/28/2017	16:28	9.50	10.2	93	14	78-125	20	
1,1,1-Trichloroethane	04/28/2017	16:28	11.1	10.2	109	4	73-130	20	
1,1,2,2-Tetrachloroethane	04/28/2017	16:28	10.0	10.2	98	23	70-124	20	*FAIL*
1,1,2-Trichloroethane	04/28/2017	16:28	9.81	10.2	96	20	78-121	20	
1,1-Dichloroethane	04/28/2017	16:28	10.9	10.2	107	8	76-125	20	
1,1-Dichloroethene	04/28/2017	16:28	11.6	10.2	114	2	70-131	20	
1,1-Dichloropropene	04/28/2017	16:28	11.6	10.2	114	3	76-125	20	
1,2,3-Trichlorobenzene	04/28/2017	16:28	7.05	10.2	69	25	66-130	20	*FAIL*
1,2,3-Trichloropropane	04/28/2017	16:28	8.38	10.2	82	38	73-125	20	*FAIL*
1,2,4-Trichlorobenzene	04/28/2017	16:28	7.15	10.2	70	23	67-129	20	*FAIL*
1,2,4-Trimethylbenzene	04/28/2017	16:28	8.17	10.2	80	18	75-123	20	
1,2-Dibromo-3-chloropropane	04/28/2017	16:28	8.99	10.2	88	20	61-132	20	
1,2-Dibromoethane	04/28/2017	16:28	9.20	10.2	90	21	78-122	20	*FAIL*
1,2-Dichlorobenzene	04/28/2017	16:28	8.99	10.2	88	19	78-121	20	
1,2-Dichloroethane	04/28/2017	16:28	10.3	10.2	101	16	73-128	20	
1,2-Dichloropropane	04/28/2017	16:28	10.3	10.2	101	12	76-123	20	
1,3,5-Trimethylbenzene	04/28/2017	16:28	9.50	10.2	93	15	73-124	20	
1,3-Dichlorobenzene	04/28/2017	16:28	8.89	10.2	87	20	77-121	20	
1,3-Dichloropropane	04/28/2017	16:28	9.91	10.2	97	17	77-121	20	
1,4-Dichlorobenzene	04/28/2017	16:28	8.48	10.2	83	22	75-120	20	*FAIL*
1-Chlorohexane	04/28/2017	16:28	10.4	10.2	102	9	71-130	20	
2,2-Dichloropropane	04/28/2017	16:28	11.1	10.2	109	3	67-133	20	
2-Butanone	04/28/2017	16:28	109	102	107	19	51-148	20	
2-Chlorotoluene	04/28/2017	16:28	9.71	10.2	95	16	75-122	20	
2-Hexanone	04/28/2017	16:28	103	102	101	23	53-145	20	*FAIL*
4-Chlorotoluene	04/28/2017	16:28	9.20	10.2	90	18	72-124	20	
4-Methyl-2-pentanone	04/28/2017	16:28	115	102	113	23	65-135	20	*FAIL*
Acetone	04/28/2017	16:28	111	102	87	11	36-164	20	
Benzene	04/28/2017	16:28	10.6	10.2	104	7	77-121	20	
Bromobenzene	04/28/2017	16:28	9.30	10.2	91	17	78-121	20	
Bromochloromethane	04/28/2017	16:28	10.3	10.2	101	10	78-125	20	

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Sample Description

DF-SB58-11-1704

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE

Matrix: SOIL | SDG No.: 126716

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 137136 | Sample No.: 858786 | Parent Sample No.: 858785

Analytical Prep Batch #: 62086 | Analytical Preparation Date/Time: 04/26/2017 21:15

ICAL Calibration #: LS042717

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Bromodichloromethane	04/28/2017	16:28	9.71	10.2	95	15	75-127	20	
Bromoform	04/28/2017	16:28	8.38	10.2	82	26	67-132	20	*FAIL*
Bromomethane	04/28/2017	16:28	10.6	10.2	104	18	53-143	20	
Carbon disulfide	04/28/2017	16:28	23.4	20.4	115	4	63-132	20	
Carbon tetrachloride	04/28/2017	16:28	11.1	10.2	109	6	70-135	20	
Chlorobenzene	04/28/2017	16:28	9.81	10.2	96	12	79-120	20	
Chloroethane	04/28/2017	16:28	10.7	10.2	105	9	59-139	20	
Chloroform	04/28/2017	16:28	10.5	10.2	103	10	78-123	20	
Chloromethane	04/28/2017	16:28	12.0	10.2	118	4	50-136	20	
cis-1,2-Dichloroethene	04/28/2017	16:28	10.5	10.2	103	9	77-123	20	
cis-1,3-Dichloropropene	04/28/2017	16:28	9.30	10.2	91	13	74-126	20	
Dibromochloromethane	04/28/2017	16:28	9.20	10.2	90	18	74-126	20	
Dibromomethane	04/28/2017	16:28	9.81	10.2	96	18	78-125	20	
Dichlorodifluoromethane	04/28/2017	16:28	14.8	10.2	145	0	29-149	20	
Ethylbenzene	04/28/2017	16:28	10.5	10.2	103	7	76-122	20	
Freon 113	04/28/2017	16:28	26.1	20.4	128	1	66-136	20	
Hexachlorobutadiene	04/28/2017	16:28	9.20	10.2	90	25	61-135	20	*FAIL*
Iodomethane	04/28/2017	16:28	14.7	20.4	72	17	71-131	20	
Isopropylbenzene	04/28/2017	16:28	10.4	10.2	102	9	68-134	20	
m & p-Xylene	04/28/2017	16:28	20.4	20.4	100	8	77-124	20	
Methyl tert-butyl ether	04/28/2017	16:28	9.81	10.2	96	19	73-125	20	
Methylene chloride	04/28/2017	16:28	10.4	10.2	102	9	70-128	20	
Naphthalene	04/28/2017	16:28	5.82	10.2	57	32	62-129	20	*FAIL*
n-Butylbenzene	04/28/2017	16:28	9.91	10.2	97	18	70-128	20	
n-Propylbenzene	04/28/2017	16:28	10.2	10.2	100	14	73-125	20	
o-Xylene	04/28/2017	16:28	9.50	10.2	93	12	77-123	20	
p-Isopropyltoluene	04/28/2017	16:28	9.30	10.2	91	19	73-127	20	
sec-Butylbenzene	04/28/2017	16:28	10.5	10.2	103	16	73-126	20	
Styrene	04/28/2017	16:28	0.920	10.2	9	80	76-124	20	*FAIL*
tert-Butylbenzene	04/28/2017	16:28	10.1	10.2	99	15	73-125	20	
Tetrachloroethene	04/28/2017	16:28	11.4	10.2	112	30	73-128	20	*FAIL*

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

SOIL VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

DF-SB58-11-1704

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE

Matrix: SOIL | SDG No.: 126716

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Analytical Run #: 137136 | Sample No.: 858786 | Parent Sample No.: 858785

Analytical Prep Batch #: 62086 | Analytical Preparation Date/Time: 04/26/2017 21:15

ICAL Calibration #: LS042717

Analyte	Analysis Date/Time		Spike Result	Spike Amount	%R	%RPD	Control Limits (%R)	Control Limits (%RPD)	
Toluene	04/28/2017	16:28	11.1	10.2	109	5	77-121	20	
trans-1,2-Dichloroethene	04/28/2017	16:28	10.6	10.2	104	8	74-125	20	
trans-1,3-Dichloropropene	04/28/2017	16:28	8.89	10.2	87	18	71-130	20	
Trichloroethene	04/28/2017	16:28	11.2	10.2	110	3	77-123	20	
Trichlorofluoromethane	04/28/2017	16:28	12.1	10.2	119	2	62-140	20	
Vinyl acetate	04/28/2017	16:28	33.6	102	33	48	50-151	20	*FAIL*
Vinyl chloride	04/28/2017	16:28	12.4	10.2	122	2	56-135	20	

RPD or Spike Recovery: 14 out of 69 outside QC limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCS**

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE I
Sample No.: 858783
SDG No.: 126716
Analytical Method: EPA 8260C
Concentration Units: ug/kg

Sample No.: 858783
Parent Sample No.: 0
Analytical Prep Batch #: 62086
Analytical Preparation Date/Time: 04/26/2017 21:15
Analytical Run #: 137136
ICAL Calibration #: LS042617

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1,2-Tetrachloroethane	04/27/2017	21:39	78-125	9.40		10.0	94
1,1,1-Trichloroethane	04/27/2017	21:39	73-130	9.50		10.0	95
1,1,2,2-Tetrachloroethane	04/27/2017	21:39	70-124	9.40		10.0	94
1,1,2-Trichloroethane	04/27/2017	21:39	78-121	9.60		10.0	96
1,1-Dichloroethane	04/27/2017	21:39	76-125	9.40		10.0	94
1,1-Dichloroethene	04/27/2017	21:39	70-131	9.50		10.0	95
1,1-Dichloropropene	04/27/2017	21:39	76-125	9.50		10.0	95
1,2,3-Trichlorobenzene	04/27/2017	21:39	66-130	9.20		10.0	92
1,2,3-Trichloropropane	04/27/2017	21:39	73-125	8.60		10.0	86
1,2,4-Trichlorobenzene	04/27/2017	21:39	67-129	8.60		10.0	86
1,2,4-Trimethylbenzene	04/27/2017	21:39	75-123	9.20		10.0	92
1,2-Dibromo-3-chloropropane	04/27/2017	21:39	61-132	9.10		10.0	91
1,2-Dibromoethane	04/27/2017	21:39	78-122	9.50		10.0	95
1,2-Dichlorobenzene	04/27/2017	21:39	78-121	9.10		10.0	91
1,2-Dichloroethane	04/27/2017	21:39	73-128	9.60		10.0	96
1,2-Dichloropropane	04/27/2017	21:39	76-123	9.30		10.0	93
1,3,5-Trimethylbenzene	04/27/2017	21:39	73-124	9.30		10.0	93
1,3-Dichlorobenzene	04/27/2017	21:39	77-121	8.90		10.0	89
1,3-Dichloropropane	04/27/2017	21:39	77-121	9.50		10.0	95
1,4-Dichlorobenzene	04/27/2017	21:39	75-120	8.90		10.0	89
1-Chlorohexane	04/27/2017	21:39	71-130	9.10		10.0	91
2,2-Dichloropropane	04/27/2017	21:39	67-133	9.30		10.0	93
2-Butanone	04/27/2017	21:39	51-148	97.1		100	97
2-Chlorotoluene	04/27/2017	21:39	75-122	9.20		10.0	92
2-Hexanone	04/27/2017	21:39	53-145	99.9		100	100
4-Chlorotoluene	04/27/2017	21:39	72-124	9.10		10.0	91
4-Methyl-2-pentanone	04/27/2017	21:39	65-135	101		100	101
Acetone	04/27/2017	21:39	36-164	98.6		100	99

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

SOIL VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE I

Sample No.: 858783

SDG No.: 126716

Analytical Method: EPA 8260C

Concentration Units: ug/kg

Sample No.: 858783

Parent Sample No.: 0

Analytical Prep Batch #: 62086

Analytical Preparation Date/Time: 04/26/2017 21:15

Analytical Run #: 137136

ICAL Calibration #: LS042617

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Benzene	04/27/2017	21:39	77-121	9.60		10.0	96
Bromobenzene	04/27/2017	21:39	78-121	9.30		10.0	93
Bromochloromethane	04/27/2017	21:39	78-125	9.70		10.0	97
Bromodichloromethane	04/27/2017	21:39	75-127	9.30		10.0	93
Bromoform	04/27/2017	21:39	67-132	9.00		10.0	90
Bromomethane	04/27/2017	21:39	53-143	10.5		10.0	105
Carbon disulfide	04/27/2017	21:39	63-132	19.2		20.0	96
Carbon tetrachloride	04/27/2017	21:39	70-135	9.20		10.0	92
Chlorobenzene	04/27/2017	21:39	79-120	9.20		10.0	92
Chloroethane	04/27/2017	21:39	59-139	9.10		10.0	91
Chloroform	04/27/2017	21:39	78-123	9.40		10.0	94
Chloromethane	04/27/2017	21:39	50-136	9.60		10.0	96
cis-1,2-Dichloroethene	04/27/2017	21:39	77-123	9.20		10.0	92
cis-1,3-Dichloropropene	04/27/2017	21:39	74-126	9.40		10.0	94
Dibromochloromethane	04/27/2017	21:39	74-126	9.10		10.0	91
Dibromomethane	04/27/2017	21:39	78-125	9.70		10.0	97
Dichlorodifluoromethane	04/27/2017	21:39	29-149	11.1		10.0	111
Ethylbenzene	04/27/2017	21:39	76-122	9.50		10.0	95
Freon 113	04/27/2017	21:39	66-136	19.3		20.0	96
Hexachlorobutadiene	04/27/2017	21:39	61-135	8.80		10.0	88
Iodomethane	04/27/2017	21:39	71-131	17.1		20.0	86
Isopropylbenzene	04/27/2017	21:39	68-134	9.50		10.0	95
m & p-Xylene	04/27/2017	21:39	77-124	18.5		20.0	92
Methyl tert-butyl ether	04/27/2017	21:39	73-125	9.60		10.0	96
Methylene chloride	04/27/2017	21:39	70-128	8.50		10.0	85
Naphthalene	04/27/2017	21:39	62-129	9.60		10.0	96
n-Butylbenzene	04/27/2017	21:39	70-128	8.80		10.0	88
n-Propylbenzene	04/27/2017	21:39	73-125	9.20		10.0	92

CT LABORATORIES
delivering more than data from your environmental analyses

3B

Sample Description

LCS

SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE I

Sample No.: 858783

SDG No.: 126716

Analytical Method: EPA 8260C

Concentration Units: ug/kg

Sample No.: 858783

Parent Sample No.: 0

Analytical Prep Batch #: 62086

Analytical Preparation Date/Time: 04/26/2017 21:15

Analytical Run #: 137136

ICAL Calibration #: LS042617

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
o-Xylene	04/27/2017	21:39	77-123	9.60		10.0	96
p-Isopropyltoluene	04/27/2017	21:39	73-127	9.40		10.0	94
sec-Butylbenzene	04/27/2017	21:39	73-126	9.50		10.0	95
Styrene	04/27/2017	21:39	76-124	9.60		10.0	96
tert-Butylbenzene	04/27/2017	21:39	73-125	9.40		10.0	94
Tetrachloroethene	04/27/2017	21:39	73-128	9.60		10.0	96
Toluene	04/27/2017	21:39	77-121	9.50		10.0	95
trans-1,2-Dichloroethene	04/27/2017	21:39	74-125	9.50		10.0	95
trans-1,3-Dichloropropene	04/27/2017	21:39	71-130	9.10		10.0	91
Trichloroethene	04/27/2017	21:39	77-123	9.40		10.0	94
Trichlorofluoromethane	04/27/2017	21:39	62-140	9.30		10.0	93
Vinyl acetate	04/27/2017	21:39	50-151	96.8		100	97
Vinyl chloride	04/27/2017	21:39	78-124	9.60		10.0	96

Spike Recovery: 0 out of 69 outside limits

CT LABORATORIES
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3B

Sample Description

LCS

SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories | Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE I

Sample No.: 858788 | SDG No.: 126716

Analytical Method: EPA 8260C | Concentration Units: ug/kg

Sample No.: 858788 | Parent Sample No.: 0

Analytical Prep Batch #: 62087 | Analytical Preparation Date/Time: 04/26/2017 21:35

Analytical Run #: 137137 | ICAL Calibration #: LS042717

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
1,1,1,2-Tetrachloroethane	04/28/2017	09:44	78-125	10.1		10.0	101
1,1,1-Trichloroethane	04/28/2017	09:44	73-130	10.7		10.0	107
1,1,2,2-Tetrachloroethane	04/28/2017	09:44	70-124	10.8		10.0	108
1,1,2-Trichloroethane	04/28/2017	09:44	78-121	10.7		10.0	107
1,1-Dichloroethane	04/28/2017	09:44	76-125	10.6		10.0	106
1,1-Dichloroethene	04/28/2017	09:44	70-131	10.6		10.0	106
1,1-Dichloropropene	04/28/2017	09:44	76-125	10.9		10.0	109
1,2,3-Trichlorobenzene	04/28/2017	09:44	66-130	10.8		10.0	108
1,2,3-Trichloropropane	04/28/2017	09:44	73-125	10.6		10.0	106
1,2,4-Trichlorobenzene	04/28/2017	09:44	67-129	10.7		10.0	107
1,2,4-Trimethylbenzene	04/28/2017	09:44	75-123	10.7		10.0	107
1,2-Dibromo-3-chloropropane	04/28/2017	09:44	61-132	10.2		10.0	102
1,2-Dibromoethane	04/28/2017	09:44	78-122	10.0		10.0	100
1,2-Dichlorobenzene	04/28/2017	09:44	78-121	10.6		10.0	106
1,2-Dichloroethane	04/28/2017	09:44	73-128	10.5		10.0	105
1,2-Dichloropropane	04/28/2017	09:44	76-123	10.4		10.0	104
1,3,5-Trimethylbenzene	04/28/2017	09:44	73-124	10.8		10.0	108
1,3-Dichlorobenzene	04/28/2017	09:44	77-121	10.5		10.0	105
1,3-Dichloropropane	04/28/2017	09:44	77-121	10.4		10.0	104
1,4-Dichlorobenzene	04/28/2017	09:44	75-120	10.8		10.0	108
1-Chlorohexane	04/28/2017	09:44	71-130	10.7		10.0	107
2,2-Dichloropropane	04/28/2017	09:44	67-133	10.7		10.0	107
2-Butanone	04/28/2017	09:44	51-148	104		100	104
2-Chlorotoluene	04/28/2017	09:44	75-122	10.5		10.0	105
2-Hexanone	04/28/2017	09:44	53-145	114		100	114
4-Chlorotoluene	04/28/2017	09:44	72-124	10.5		10.0	105
4-Methyl-2-pentanone	04/28/2017	09:44	65-135	114		100	114
Acetone	04/28/2017	09:44	36-164	109		100	109

CT LABORATORIES
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3B

Sample Description

SOIL VOLATILE LAB CONTROL SAMPLE

LCS

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE I

Sample No.: 858788

SDG No.: 126716

Analytical Method: EPA 8260C

Concentration Units: ug/kg

Sample No.: 858788

Parent Sample No.: 0

Analytical Prep Batch #: 62087

Analytical Preparation Date/Time: 04/26/2017 21:35

Analytical Run #: 137137

ICAL Calibration #: LS042717

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
Benzene	04/28/2017	09:44	77-121	10.6		10.0	106
Bromobenzene	04/28/2017	09:44	78-121	10.5		10.0	105
Bromochloromethane	04/28/2017	09:44	78-125	10.8		10.0	108
Bromodichloromethane	04/28/2017	09:44	75-127	10.4		10.0	104
Bromoform	04/28/2017	09:44	67-132	9.50		10.0	95
Bromomethane	04/28/2017	09:44	53-143	11.3		10.0	113
Carbon disulfide	04/28/2017	09:44	63-132	21.5		20.0	108
Carbon tetrachloride	04/28/2017	09:44	70-135	10.5		10.0	105
Chlorobenzene	04/28/2017	09:44	79-120	10.4		10.0	104
Chloroethane	04/28/2017	09:44	59-139	10.6		10.0	106
Chloroform	04/28/2017	09:44	78-123	10.3		10.0	103
Chloromethane	04/28/2017	09:44	50-136	11.2		10.0	112
cis-1,2-Dichloroethene	04/28/2017	09:44	77-123	10.3		10.0	103
cis-1,3-Dichloropropene	04/28/2017	09:44	74-126	10.1		10.0	101
Dibromochloromethane	04/28/2017	09:44	74-126	10.2		10.0	102
Dibromomethane	04/28/2017	09:44	78-125	10.4		10.0	104
Dichlorodifluoromethane	04/28/2017	09:44	29-149	11.9		10.0	119
Ethylbenzene	04/28/2017	09:44	76-122	10.6		10.0	106
Freon 113	04/28/2017	09:44	66-136	22.6		20.0	113
Hexachlorobutadiene	04/28/2017	09:44	61-135	10.6		10.0	106
Iodomethane	04/28/2017	09:44	71-131	17.0		20.0	85
Isopropylbenzene	04/28/2017	09:44	68-134	10.7		10.0	107
m & p-Xylene	04/28/2017	09:44	77-124	21.3		20.0	106
Methyl tert-butyl ether	04/28/2017	09:44	73-125	10.5		10.0	105
Methylene chloride	04/28/2017	09:44	70-128	11.1		10.0	111
Naphthalene	04/28/2017	09:44	62-129	10.7		10.0	107
n-Butylbenzene	04/28/2017	09:44	70-128	11.2		10.0	112
n-Propylbenzene	04/28/2017	09:44	73-125	10.9		10.0	109

CT LABORATORIES
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3B

Sample Description

LCS

SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE I

Sample No.: 858788

SDG No.: 126716

Analytical Method: EPA 8260C

Concentration Units: ug/kg

Sample No.: 858788

Parent Sample No.: 0

Analytical Prep Batch #: 62087

Analytical Preparation Date/Time: 04/26/2017 21:35

Analytical Run #: 137137

ICAL Calibration #: LS042717

Analyte	Analysis Date/Time		Control Limit (%R)	Spike Result	Parent Result	Spike Amount	%R
o-Xylene	04/28/2017	09:44	77-123	10.4		10.0	104
p-Isopropyltoluene	04/28/2017	09:44	73-127	10.9		10.0	109
sec-Butylbenzene	04/28/2017	09:44	73-126	10.9		10.0	109
Styrene	04/28/2017	09:44	76-124	10.7		10.0	107
tert-Butylbenzene	04/28/2017	09:44	73-125	10.6		10.0	106
Tetrachloroethene	04/28/2017	09:44	73-128	11.2		10.0	112
Toluene	04/28/2017	09:44	77-121	10.6		10.0	106
trans-1,2-Dichloroethene	04/28/2017	09:44	74-125	10.4		10.0	104
trans-1,3-Dichloropropene	04/28/2017	09:44	71-130	10.1		10.0	101
Trichloroethene	04/28/2017	09:44	77-123	10.8		10.0	108
Trichlorofluoromethane	04/28/2017	09:44	62-140	10.9		10.0	109
Vinyl acetate	04/28/2017	09:44	50-151	107		100	107
Vinyl chloride	04/28/2017	09:44	78-124	11.2		10.0	112

Spike Recovery: 0 out of 69 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCSD**

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHAS
Sample No.: 858789
SDG No.: 126716
Analytical Method: EPA 8260C
Concentration Units: ug/kg

Analytical Run #: 137137 Sample No.: 858789 Parent Sample No.: 858788
Analytical Prep Batch #: 62087 Analytical Preparation Date/Time: 04/26/2017 21:35
ICAL Calibration #: LS042717

Analyte	Analysis Date/Time		Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit (%R)	Control Limit (%RPD)
1,1,1,2-Tetrachloroethane	04/28/2017	16:57	9.70	10.1	10.0	97	4	78-125	20
1,1,1-Trichloroethane	04/28/2017	16:57	9.80	10.7	10.0	98	9	73-130	20
1,1,2,2-Tetrachloroethane	04/28/2017	16:57	10.0	10.8	10.0	100	8	70-124	20
1,1,2-Trichloroethane	04/28/2017	16:57	10.2	10.7	10.0	102	5	78-121	20
1,1-Dichloroethane	04/28/2017	16:57	10.3	10.6	10.0	103	3	76-125	20
1,1-Dichloroethene	04/28/2017	16:57	10.0	10.6	10.0	100	6	70-131	20
1,1-Dichloropropene	04/28/2017	16:57	9.90	10.9	10.0	99	10	76-125	20
1,2,3-Trichlorobenzene	04/28/2017	16:57	9.80	10.8	10.0	98	10	66-130	20
1,2,3-Trichloropropane	04/28/2017	16:57	10.0	10.6	10.0	100	6	73-125	20
1,2,4-Trichlorobenzene	04/28/2017	16:57	9.60	10.7	10.0	96	11	67-129	20
1,2,4-Trimethylbenzene	04/28/2017	16:57	9.70	10.7	10.0	97	10	75-123	20
1,2-Dibromo-3-chloropropane	04/28/2017	16:57	9.50	10.2	10.0	95	7	61-132	20
1,2-Dibromoethane	04/28/2017	16:57	10.1	10.0	10.0	101	1	78-122	20
1,2-Dichlorobenzene	04/28/2017	16:57	9.90	10.6	10.0	99	7	78-121	20
1,2-Dichloroethane	04/28/2017	16:57	10.2	10.5	10.0	102	3	73-128	20
1,2-Dichloropropane	04/28/2017	16:57	10.1	10.4	10.0	101	3	76-123	20
1,3,5-Trimethylbenzene	04/28/2017	16:57	9.80	10.8	10.0	98	10	73-124	20
1,3-Dichlorobenzene	04/28/2017	16:57	9.50	10.5	10.0	95	10	77-121	20
1,3-Dichloropropane	04/28/2017	16:57	10.2	10.4	10.0	102	2	77-121	20
1,4-Dichlorobenzene	04/28/2017	16:57	9.50	10.8	10.0	95	13	75-120	20
1-Chlorohexane	04/28/2017	16:57	9.40	10.7	10.0	94	13	71-130	20
2,2-Dichloropropane	04/28/2017	16:57	10.1	10.7	10.0	101	6	67-133	20
2-Butanone	04/28/2017	16:57	101	104	100	101	3	51-148	20
2-Chlorotoluene	04/28/2017	16:57	9.60	10.5	10.0	96	9	75-122	20
2-Hexanone	04/28/2017	16:57	110	114	100	110	4	53-145	20
4-Chlorotoluene	04/28/2017	16:57	9.80	10.5	10.0	98	7	72-124	20
4-Methyl-2-pentanone	04/28/2017	16:57	112	114	100	112	2	65-135	20
Acetone	04/28/2017	16:57	104	109	100	104	5	36-164	20

CT LABORATORIES
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3B

SOIL VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCSD**

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHAS
Sample No.: 858789
SDG No.: 126716
Analytical Method: EPA 8260C
Concentration Units: ug/kg

Analytical Run #: 137137 Sample No.: 858789 Parent Sample No.: 858788
Analytical Prep Batch #: 62087 Analytical Preparation Date/Time: 04/26/2017 21:35
ICAL Calibration #: LS042717

Analyte	Analysis Date/Time	Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit (%R)	Control Limit (%RPD)
Benzene	04/28/2017 16:57	10.2	10.6	10.0	102	4	77-121	20
Bromobenzene	04/28/2017 16:57	9.60	10.5	10.0	96	9	78-121	20
Bromochloromethane	04/28/2017 16:57	10.6	10.8	10.0	106	2	78-125	20
Bromodichloromethane	04/28/2017 16:57	9.80	10.4	10.0	98	6	75-127	20
Bromoform	04/28/2017 16:57	8.90	9.50	10.0	89	7	67-132	20
Bromomethane	04/28/2017 16:57	10.3	11.3	10.0	103	9	53-143	20
Carbon disulfide	04/28/2017 16:57	20.3	21.5	20.0	102	6	63-132	20
Carbon tetrachloride	04/28/2017 16:57	9.60	10.5	10.0	96	9	70-135	20
Chlorobenzene	04/28/2017 16:57	9.70	10.4	10.0	97	7	79-120	20
Chloroethane	04/28/2017 16:57	9.80	10.6	10.0	98	8	59-139	20
Chloroform	04/28/2017 16:57	10.1	10.3	10.0	101	2	78-123	20
Chloromethane	04/28/2017 16:57	10.5	11.2	10.0	105	6	50-136	20
cis-1,2-Dichloroethene	04/28/2017 16:57	10.0	10.3	10.0	100	3	77-123	20
cis-1,3-Dichloropropene	04/28/2017 16:57	9.80	10.1	10.0	98	3	74-126	20
Dibromochloromethane	04/28/2017 16:57	9.60	10.2	10.0	96	6	74-126	20
Dibromomethane	04/28/2017 16:57	10.2	10.4	10.0	102	2	78-125	20
Dichlorodifluoromethane	04/28/2017 16:57	13.8	11.9	10.0	138	15	29-149	20
Ethylbenzene	04/28/2017 16:57	10.0	10.6	10.0	100	6	76-122	20
Freon 113	04/28/2017 16:57	20.8	22.6	20.0	104	8	66-136	20
Hexachlorobutadiene	04/28/2017 16:57	9.60	10.6	10.0	96	10	61-135	20
Iodomethane	04/28/2017 16:57	14.4	17.0	20.0	72	17	71-131	20
Isopropylbenzene	04/28/2017 16:57	10.0	10.7	10.0	100	7	68-134	20
m & p-Xylene	04/28/2017 16:57	19.3	21.3	20.0	96	10	77-124	20
Methyl tert-butyl ether	04/28/2017 16:57	10.5	10.5	10.0	105	0	73-125	20
Methylene chloride	04/28/2017 16:57	10.6	11.1	10.0	106	5	70-128	20
Naphthalene	04/28/2017 16:57	9.80	10.7	10.0	98	9	62-129	20
n-Butylbenzene	04/28/2017 16:57	9.80	11.2	10.0	98	13	70-128	20
n-Propylbenzene	04/28/2017 16:57	9.60	10.9	10.0	96	13	73-125	20

CT LABORATORIES
delivering more than data from your environmental analyses

3B

SOIL VOLATILE LAB CONTROL SAMPLE

Sample Description: **LCSD**

Lab Name: CT Laboratories
Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHAS
Sample No.: 858789
SDG No.: 126716
Analytical Method: EPA 8260C
Concentration Units: ug/kg

Analytical Run #: 137137 Sample No.: 858789 Parent Sample No.: 858788
Analytical Prep Batch #: 62087 Analytical Preparation Date/Time: 04/26/2017 21:35
ICAL Calibration #: LS042717

Analyte	Analysis Date/Time	Spike Result	Parent Result	Spike Amount	%R	%RPD	Control Limit (%R)	Control Limit (%RPD)
o-Xylene	04/28/2017 16:57	10.1	10.4	10.0	101	3	77-123	20
p-Isopropyltoluene	04/28/2017 16:57	9.70	10.9	10.0	97	12	73-127	20
sec-Butylbenzene	04/28/2017 16:57	9.90	10.9	10.0	99	10	73-126	20
Styrene	04/28/2017 16:57	10.0	10.7	10.0	100	7	76-124	20
tert-Butylbenzene	04/28/2017 16:57	9.60	10.6	10.0	96	10	73-125	20
Tetrachloroethene	04/28/2017 16:57	10.1	11.2	10.0	101	10	73-128	20
Toluene	04/28/2017 16:57	9.90	10.6	10.0	99	7	77-121	20
trans-1,2-Dichloroethene	04/28/2017 16:57	9.90	10.4	10.0	99	5	74-125	20
trans-1,3-Dichloropropene	04/28/2017 16:57	9.70	10.1	10.0	97	4	71-130	20
Trichloroethene	04/28/2017 16:57	10.4	10.8	10.0	104	4	77-123	20
Trichlorofluoromethane	04/28/2017 16:57	10.0	10.9	10.0	100	9	62-140	20
Vinyl acetate	04/28/2017 16:57	97.3	107	100	97	9	50-151	20
Vinyl chloride	04/28/2017 16:57	10.5	11.2	10.0	105	6	78-124	20

RPD or Spike Recovery: 0 out of 69 outside QC limits

CT LABORATORIES
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4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE II
Sample ID:	857932	SDG No.:	126716
Matrix:	LIQUID	Date Extracted:	
Date Analyzed:	04/21/2017	Time Analyzed:	09:39
Analytical Method:	EPA 8260C	Extraction Method:	NONE
Analytical Run #:	136990	Extraction Batch #:	0
		ICAL Calibration #:	LW040917

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	BFB	857889	04/21/2017 08:02	
2	LCSW	857898	04/21/2017 08:43	LW040917
3	CCV	857900	04/21/2017 08:43	LW040917
4	MBW	857932	04/21/2017 09:39	LW040917
5	DF-TB-2-1704	856724	04/21/2017 10:07	LW040917
6	DF-RB-2-1704	856725	04/21/2017 10:35	LW040917
7	DF-TB-1-1704	856732	04/21/2017 11:03	LW040917
8	DF-RB-1-1704	856733	04/21/2017 11:31	LW040917
9	LCSDW	858359	04/21/2017 19:34	LW040917
10	CCVF	858360	04/21/2017 19:34	LW040917

CT LABORATORIES
delivering more than data from your environmental analyses

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE II
Sample ID:	858782	SDG No.:	126716
Matrix:	SOLID	Date Extracted:	04/26/2017
Date Analyzed:	04/27/2017	Time Analyzed:	22:37
Analytical Method:	EPA 8260C	Extraction Method:	SW5035
Analytical Run #:	137136	Extraction Batch #:	62086
		ICAL Calibration #:	LS042617

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	BFB	860864	04/27/2017 20:56	
2	CCV	860863	04/27/2017 21:10	LS042617
3	LCSS	858783	04/27/2017 21:39	LS042617
4	MBS	858782	04/27/2017 22:37	LS042617
5	DF-SB59-16-1704	856713	04/27/2017 23:06	LS042617
6	DF-SB59-20-1704	856716	04/27/2017 23:35	LS042617
7	DF-SB62-10-1704	856717	04/28/2017 00:04	LS042617
8	DF-SB62-16-1704	856718	04/28/2017 00:33	LS042617
9	DF-SB63-7-1704	856719	04/28/2017 01:02	LS042617
10	DF-SB63-15-1704	856720	04/28/2017 01:31	LS042617
11	DF-SB67-3-1704	856721	04/28/2017 02:00	LS042617
12	DF-SB67-10-1704	856722	04/28/2017 02:29	LS042617
13	DF-DUP-2-1704	856723	04/28/2017 02:58	LS042617
14	DF-SB66-19-1704	856726	04/28/2017 03:27	LS042617
15	DF-SB61-13-1704	856727	04/28/2017 03:55	LS042617
16	DF-SB61-20-1704	856728	04/28/2017 04:24	LS042617
17	DF-SB60-16-1704	856729	04/28/2017 04:53	LS042617
18	DF-SB60-19-1704	856730	04/28/2017 05:22	LS042617
19	DF-DUP-1-1704	856731	04/28/2017 05:51	LS042617
20	DF-SB58-11-1704	856734	04/28/2017 06:20	LS042617
21	DF-SB58-23-1704	856737	04/28/2017 06:49	LS042617
22	DF-SB66-12-1704	856738	04/28/2017 07:18	LS042617
23	DF-SB58-11-1704MSS	858785	04/28/2017 08:08	LS042617
24	CCVF	860921	04/28/2017 08:37	LS042717
25	BFB	860937	04/28/2017 09:01	
26	CCV	860940	04/28/2017 09:15	LS042717
27	CCB	861120	04/28/2017 10:42	LS042717
28	DF-SB58-11-1704MSDS	858786	04/28/2017 16:28	LS042717
29	CCVF	863484	04/28/2017 16:57	LS042717

CT LABORATORIES
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4A

VOLATILE METHOD BLANK SUMMARY

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHASE II
Sample ID:	858787	SDG No.:	126716
Matrix:	SOLID	Date Extracted:	04/26/2017
Date Analyzed:	04/28/2017	Time Analyzed:	10:42
Analytical Method:	EPA 8260C	Extraction Method:	SW5035
Analytical Run #:	137137	Extraction Batch #:	62087
		ICAL Calibration #:	LS042717

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

SEQUENCE	SAMPLE DESCRIPTION	SAMPLE ID	DATE/TIME ANALYZED	CALIBRATION # ID
1	BFB	860936	04/28/2017 09:01	
2	CCV	860939	04/28/2017 09:15	LS042717
3	LCSS	858788	04/28/2017 09:44	LS042717
4	MBS	858787	04/28/2017 10:42	LS042717
5	DF-SB65-19-1704	856739	04/28/2017 11:10	LS042717
6	DF-SB65-5-1704	856740	04/28/2017 11:39	LS042717
7	DF-SB64-18-1704	856741	04/28/2017 12:09	LS042717
8	DF-SB64-13-1704	856742	04/28/2017 12:37	LS042717
9	LCSDS	858789	04/28/2017 16:57	LS042717
10	CCVF	863482	04/28/2017 16:57	LS042717

BFB

Data File : C:\INSTARCH\DATA\APR0917\BFB1.D Vial: 1
Acq On : 9 Apr 2017 9:18 Operator: RLD-AGK
Sample : BFB INJ Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW040917.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.791 to 4.816 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	5628	PASS
75	95	30	60	43.7	11852	PASS
95	95	100	100	100.0	27109	PASS
96	95	5	9	7.1	1919	PASS
173	174	0.00	2	0.7	183	PASS
174	95	50	100	95.6	25920	PASS
175	174	5	9	8.7	2263	PASS
176	174	95	101	97.1	25164	PASS
177	176	5	9	5.8	1471	PASS

LW040917.M Tue Apr 11 10:13:27 2017

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW040917.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR0917\BFB1.D
Injection Date : 9 Apr 2017 Log Time Period (hrs) : ALL
Injection Time : 09:18 Total files within period : 17
Sample Directory : C:\INSTARCH\DATA\APR0917\

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	9 Apr 2017	11:01
LLCALW2	1.00	1.00	1.00	CALIB. PT. 2 0.50/5.00 ug/L, 25.0	9 Apr 2017	11:29
LLCALW3	1.00	1.00	1.00	CALIB. PT. 3 1.00/10.00 ug/L, 25.	9 Apr 2017	11:58
LLCALW4	1.00	1.00	1.00	CALIB. PT. 4 2.00/20.00 ug/L, 25.	9 Apr 2017	12:26
LLCALW5	1.00	1.00	1.00	CALIB. PT. 5 4.00/40.00 ug/L, 25.	9 Apr 2017	12:54
LLCALW6	1.00	1.00	1.00	CALIB. PT. 6 6.00/60.00 ug/L, 25.	9 Apr 2017	13:23
LLCALW7	1.00	1.00	1.00	CALIB. PT. 7 8.00/80.00 ug/L, 25.	9 Apr 2017	13:51
LLCALW8	1.00	1.00	1.00	CALIB. PT. 8 16.00/160.0 ug/L, 25	9 Apr 2017	14:19
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 4.00/40.00 ug/L, 25.	9 Apr 2017	15:15
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 8.00/80.00, 25.0 ml	9 Apr 2017	15:43
ICB1	1.00	1.00	1.00	INITIAL CALIB BLANK pH<2, 25.0 ml DI H2O	9 Apr 2017	17:07

BFB

Data File : C:\Instarch\Data\APR2117\BFB1.D Vial: 1
Acq On : 21 Apr 2017 8:02 Operator: RLD-AGK
Sample : 136714,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW040917.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.778 to 4.784 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	7807	PASS
75	95	30	60	42.4	16950	PASS
95	95	100	100	100.0	39954	PASS
96	95	5	9	6.9	2742	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	98.8	39472	PASS
175	174	5	9	8.8	3473	PASS
176	174	95	101	98.5	38898	PASS
177	176	5	9	6.2	2405	PASS

LW040917.M Wed Apr 26 08:59:38 2017

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW040917.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR2117\BFB1.D
Injection Date : 21 Apr 2017 Log Time Period (hrs) : ALL
Injection Time : 08:02 Total files within period : 45
Sample Directory : C:\INSTARCH\DATA\APR2117\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
IB1	1.00	1.00	1.00	INSTRUMENT BLANK 25.0 ml DI H2O Purge	21 Apr 2017	08:15
CCV-LCS1	1.00	1.00	1.00	136714,LCSW, 4.00/40.00 ug/L, 25.	21 Apr 2017	08:43
IB2	1.00	1.00	1.00	INSTRUMENT BLANK 25.0 ml DI H2O Purge	21 Apr 2017	09:11
MB1	1.00	1.00	1.00	136714,MBW, pH<2, 25.0 ml DI H2O	21 Apr 2017	09:39
856724	1.00	1.00	1.00	136990,856724, pH<2, 25.0 ml Purged	21 Apr 2017	10:07
856725	1.00	1.00	1.00	136990,856725, pH<2, 25.0 ml Purged	21 Apr 2017	10:35
856732	1.00	1.00	1.00	136990,856732, pH<2, 25.0 ml Purged	21 Apr 2017	11:03
856733	1.00	1.00	1.00	136990,856733, pH<2, 25.0 ml Purged	21 Apr 2017	11:31
LCSD-CCVF1	1.00	1.00	1.00	136990,LCSDW, 4.00/40.00 ug/L, 25.	21 Apr 2017	19:34

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): LLCALW5.D Date Analyzed : 9 Apr 2017
Instrument ID : VMS4 Time Analyzed : 12:54
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	1218359	7.78	973531	11.71	563042	15.02
UPPER LIMIT	2436718	8.28	1947062	12.21	1126084	15.52
LOWER LIMIT	609180	7.28	486766	11.21	281521	14.52
File ID Sample						
856724 136990,85	1264954	7.78	1102220	11.71	618100	15.02
856725 136990,85	1243494	7.78	1075117	11.71	615200	15.02
856732 136990,85	1226879	7.78	1078505	11.71	595865	15.02
856733 136990,85	1242263	7.78	1079973	11.71	611192	15.02
CCV-LCS1 136714,LC	1391364	7.78	1155796	11.71	712837	15.02
LCSD-CCVF136990,LC	1448016	7.78	1175361	11.71	691352	15.02
MB1 136714,MB	1251643	7.78	1087102	11.71	625804	15.02

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\APR2717\BFB1.D Vial: 1
Acq On : 27 Apr 2017 10:40 Operator: RLD-AGK
Sample : BFB INJ Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS042717.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.787 to 4.794 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	6719	PASS
75	95	30	60	42.4	14818	PASS
95	95	100	100	100.0	34957	PASS
96	95	5	9	5.6	1970	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.1	32546	PASS
175	174	5	9	6.0	1968	PASS
176	174	95	101	97.8	31821	PASS
177	176	5	9	8.9	2844	PASS

LS042717.M Wed May 03 15:28:22 2017

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS042717.M
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR2717\BFB1.D
Injection Date : 27 Apr 2017 Log Time Period (hrs) : ALL
Injection Time : 10:40 Total files within period : 21
Sample Directory : C:\INSTARCH\DATA\APR2717\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
LLCALS1	1.00	1.00	1.00	CALIB. PT. 1 0.001/0.010 mg/kg, 1	27 Apr 2017	11:50
LLCALS2	1.00	1.00	1.00	CALIB. PT. 2 0.002/0.020 mg/kg, 1	27 Apr 2017	12:19
LLCALS3	1.00	1.00	1.00	CALIB. PT. 3 0.005/0.050 mg/kg, 1	27 Apr 2017	12:48
LLCALS4	1.00	1.00	1.00	CALIB. PT. 4 0.010/0.100 mg/kg, 1	27 Apr 2017	13:17
LLCALS5	1.00	1.00	1.00	CALIB. PT. 5 0.020/0.200 mg/kg, 1	27 Apr 2017	13:46
LLCALS6	1.00	1.00	1.00	CALIB. PT. 6 0.030/0.300 mg/kg, 1	27 Apr 2017	14:15
LLCALS7	1.00	1.00	1.00	CALIB. PT. 7 0.040/0.400 mg/kg, 1	27 Apr 2017	14:44
LLCALS8	1.00	1.00	1.00	CALIB. PT. 8 0.080/0.800 mg/kg, 1	27 Apr 2017	15:13
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.010/0.10 mg/kg, 15	27 Apr 2017	16:11
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.030/0.30 mg/kg, 15	27 Apr 2017	16:40
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 5.00g, 15.0 ml Purge	27 Apr 2017	17:38

BFB

Data File : C:\Instarch\Data\APR2717B\BFB1.D Vial: 1
Acq On : 27 Apr 2017 20:56 Operator: RLD-AGK
Sample : 137136,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS042717.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.758 to 4.778 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	17517	PASS
75	95	30	60	41.3	41326	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.6	6599	PASS
173	174	0.00	2	0.7	603	PASS
174	95	50	100	84.2	84163	PASS
175	174	5	9	8.8	7387	PASS
176	174	95	101	100.6	84704	PASS
177	176	5	9	7.0	5897	PASS

LS042717.M Wed May 03 15:56:22 2017

BFB

Data File : C:\Instarch\Data\APR2717B\BFB2.D Vial: 26
Acq On : 28 Apr 2017 9:01 Operator: RLD-AGK
Sample : 137137,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS042717.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.784 to 4.800 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	9634	PASS
75	95	30	60	44.9	23266	PASS
95	95	100	100	100.0	51862	PASS
96	95	5	9	7.4	3850	PASS
173	174	0.00	2	0.6	275	PASS
174	95	50	100	94.5	49029	PASS
175	174	5	9	8.0	3911	PASS
176	174	95	101	96.9	47508	PASS
177	176	5	9	7.5	3580	PASS

LS042717.M Wed May 03 15:56:52 2017

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS042717.M
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR2717B\BFB1.D
Injection Date : 27 Apr 2017 Log Time Period (hrs) : ALL
Injection Time : 20:56 Total files within period : 42
Sample Directory : C:\INSTARCH\DATA\APR2717B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date Time
CCV1	1.00	1.00	1.00	137136,CCV, 0.010/0.100 mg/kg, 1	27 Apr 2017 21:10
LCS1	1.00	1.00	1.00	137136,LCSS, 5.00g, 0.010/0.100 m	27 Apr 2017 21:39
IB1	1.00	1.00	1.00	INSTRUMENT BLANK 15.0 ml DI H2O Purge	27 Apr 2017 22:08
MB1	1.00	1.00	1.00	137136,MBS, 5.00g, 15.0 ml Purge	27 Apr 2017 22:37
856713	1.00	1.00	1.00	137136,856713, 6.24g, 15.0 ml Purge	27 Apr 2017 23:06
856716	1.00	1.00	1.00	137136,856716, 6.15g, 15.0 ml Purge	27 Apr 2017 23:35
856717	1.00	1.00	1.00	137136,856717, 6.32g, 15.0 ml Purge	28 Apr 2017 00:04
856718	1.00	1.00	1.00	137136,856718, 6.53g, 15.0 ml Purge	28 Apr 2017 00:33
856719	1.00	1.00	1.00	137136,856719, 6.48g, 15.0 ml Purge	28 Apr 2017 01:02
856720	1.00	1.00	1.00	137136,856720, 6.40g, 15.0 ml Purge	28 Apr 2017 01:31
856721	1.00	1.00	1.00	137136,856721, 5.37g, 15.0 ml Purge	28 Apr 2017 02:00
856722	1.00	1.00	1.00	137136,856722, 6.03g, 15.0 ml Purge	28 Apr 2017 02:29
856723	1.00	1.00	1.00	137136,856723, 4.59g, 15.0 ml Purge	28 Apr 2017 02:58
856726	1.00	1.00	1.00	137136,856726, 5.86g, 15.0 ml Purge	28 Apr 2017 03:27
856727	1.00	1.00	1.00	137136,856727, 6.08g, 15.0 ml Purge	28 Apr 2017 03:55
856728	1.00	1.00	1.00	137136,856728, 6.72g, 15.0 ml Purge	28 Apr 2017 04:24
856729	1.00	1.00	1.00	137136,856729, 6.84g, 15.0 ml Purge	28 Apr 2017 04:53
856730	1.00	1.00	1.00	137136,856730, 6.84g, 15.0 ml Purge	28 Apr 2017 05:22
856731	1.00	1.00	1.00	137136,856731, 6.78g, 15.0 ml Purge	28 Apr 2017 05:51
856734	1.00	1.00	1.00	137136,856734, 6.46g, 15.0 ml Purge	28 Apr 2017 06:20
856737	1.00	1.00	1.00	137136,856737, 6.67g, 15.0 ml Purge	28 Apr 2017 06:49
856738	1.00	1.00	1.00	137136,856738, 4.24g, 15.0 ml Purge	28 Apr 2017 07:18
856734MS	1.00	1.00	1.00	137136,MSS856734, 5.98g, 0.010/0.100 m	28 Apr 2017 08:08
CCVF1	1.00	1.00	1.00	137136,CCVF, 0.010/0.100 mg/kg, 1	28 Apr 2017 08:37
BFB2	1.00	1.00	1.00	137137,BFB, 50 ng Injection	28 Apr 2017 09:01

pl_ilog

CCV2	1.00	1.00	1.00	137137,CCV, 0.010/0.100 mg/kg, 1	28 Apr 2017 09:15
LCS2	1.00	1.00	1.00	137137,LCSS, 5.00g, 0.010/0.100 m	28 Apr 2017 09:44
IB2	1.00	1.00	1.00	INSTRUMENT BLANK 15.0 ml DI H2O Purge	28 Apr 2017 10:13
MB2-CCB1	1.00	1.00	1.00	137137,MBS, 5.00g, 15.0 ml Purge	28 Apr 2017 10:42
856739	1.00	1.00	1.00	137137,856739, 5.33g, 15.0 ml Purge	28 Apr 2017 11:10
856740	1.00	1.00	1.00	137137,856740, 5.72g, 15.0 ml Purge	28 Apr 2017 11:39
856741	1.00	1.00	1.00	137137,856741, 5.83g, 15.0 ml Purge	28 Apr 2017 12:09
856742	1.00	1.00	1.00	137137,856742, 5.64g, 15.0 ml Purge	28 Apr 2017 12:37
IB3	1.00	1.00	1.00	INSTRUMENT BLANK 15.0 ml DI H2O Purge	28 Apr 2017 16:00
856734SD	1.00	1.00	1.00	137136,MSDS856734, 6.33g, 0.010/0.100 m	28 Apr 2017 16:28
LCSD-CCVF2	1.00	1.00	1.00	137137,LCSDS, 5.00g, 0.010/0.100 m	28 Apr 2017 16:57

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): LLCALS4.D Date Analyzed : 27 Apr 2017
Instrument ID : VMS4 Time Analyzed : 13:17
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	1354193	7.77	1060677	11.71	578511	15.02
UPPER LIMIT	2708386	8.27	2121354	12.21	1157022	15.52
LOWER LIMIT	677097	7.27	530339	11.21	289256	14.52
File ID Sample						
856713 137136,85	905396	7.78	736854	11.71	404049	15.02
856716 137136,85	1054834	7.78	848593	11.71	464359	15.02
856717 137136,85	951456	7.78	758457	11.71	413838	15.02
856718 137136,85	1058708	7.78	856321	11.71	465363	15.02
856719 137136,85	1053222	7.78	840995	11.71	449248	15.02
856720 137136,85	1035380	7.78	830869	11.71	455504	15.02
856721 137136,85	999704	7.78	794615	11.71	416937	15.02
856722 137136,85	1031092	7.78	842701	11.71	451860	15.02
856723 137136,85	944311	7.78	760583	11.71	396184	15.02
856726 137136,85	1033787	7.78	840043	11.71	463233	15.02
856727 137136,85	1047497	7.78	847802	11.71	464735	15.02
856728 137136,85	940827	7.78	766400	11.71	418393	15.02
856729 137136,85	1020914	7.78	831619	11.71	458947	15.02
856730 137136,85	908334	7.78	733202	11.71	396488	15.02
856731 137136,85	917550	7.78	748528	11.71	415820	15.02
856734 137136,85	918019	7.78	750101	11.71	412404	15.02
856734MS 137136,MS	1017842	7.78	823056	11.71	440241	15.02
856734SD 137136,MS	1115065	7.77	886560	11.71	496520	15.02
856737 137136,85	911013	7.78	731196	11.71	395356	15.02
856738 137136,85	993904	7.78	810695	11.71	442424	15.02
856739 137137,85	1219807	7.77	976633	11.71	542490	15.02
856740 137137,85	1215297	7.77	988770	11.71	540265	15.02
856741 137137,85	1228683	7.77	988232	11.71	551079	15.02
856742 137137,85	1235478	7.77	1016872	11.71	542439	15.02
CCV1 137136,CC	1107566	7.78	859168	11.71	471356	15.02

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

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : CT Laboratories, LLC Contract :
Project : Site : Location : Group :
Lab File ID (Standard): LLCALS4.D Date Analyzed : 27 Apr 2017
Instrument ID : VMS4 Time Analyzed : 13:17
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	1354193	7.77	1060677	11.71	578511	15.02
UPPER LIMIT	2708386	8.27	2121354	12.21	1157022	15.52
LOWER LIMIT	677097	7.27	530339	11.21	289256	14.52
File ID Sample						
CCV2 137137,CC	1271292	7.77	1011516	11.71	570539	15.02
CCVF1 137136,CC	1258063	7.77	990687	11.71	547352	15.02
LCS1 137136,LC	1062600	7.78	833595	11.71	462865	15.02
LCS2 137137,LC	1231090	7.77	967586	11.71	528907	15.02
LCSD-CCVF 137137,LC	1241388	7.77	971430	11.71	545957	15.02
MB1 137136,MB	715219	7.78	579993	11.71	327127	15.02
MB2-CCB1 137137,MB	1203431	7.77	950853	11.71	518550	15.02

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\APR2117\856724.D Vial: 6
Acq On : 21 Apr 2017 10:07 Operator: RLD-AGK
Sample : 136990,856724, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 10:43:58 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1264954	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1102220	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	618100	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	364421	4.231	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 106	%		
45) SURR12DCAd4	7.35	102	70033	4.003	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 100	%		
61) SURRd8Tolule	9.79	98	1310345	4.149	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 104	%		
83) SURR4BrFBenz	13.35	95	479553	4.004	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.16	50	3780	0.0307	ug/L	89
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.74	94	1631	0.0443	ug/L #	34
6) Chloroethane	2.92	64	758	N.D.		
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	4.14	43	18616	N.D.		
16) Iodomethane	4.28	142	1201	0.3565	ug/L #	87
17) Carbon Dislf	4.30	76	2619	N.D.		
18) allylchloride	4.57	41	1736	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	8166	Below	Cal	90
21) tbutylalcohol	4.89	59	900	Below	Cal #	1
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	5.42	57	539	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	6.65	42	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\856724.D Vial: 6
Acq On : 21 Apr 2017 10:07 Operator: RLD-AGK
Sample : 136990,856724, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 10:43:58 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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	7.42	78	1249	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)	2CLEVE	9.26	63	4523	0.4410 ug/L #	60
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.63	43	542	N.D.	
62)	Toluene	9.87	92	972	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.74	43	738	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.71	91	1358	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.36	55	1728	Below Cal #	30
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	14.77	105	596	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	15.01	119	830	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.56	91	1742	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\856724.D Vial: 6
Acq On : 21 Apr 2017 10:07 Operator: RLD-AGK
Sample : 136990,856724, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 10:43:58 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.13	128	1448	N.D.	
105) 123Trichlben	18.43	180	520	N.D.	

(#) = qualifier out of range (m) = manual integration

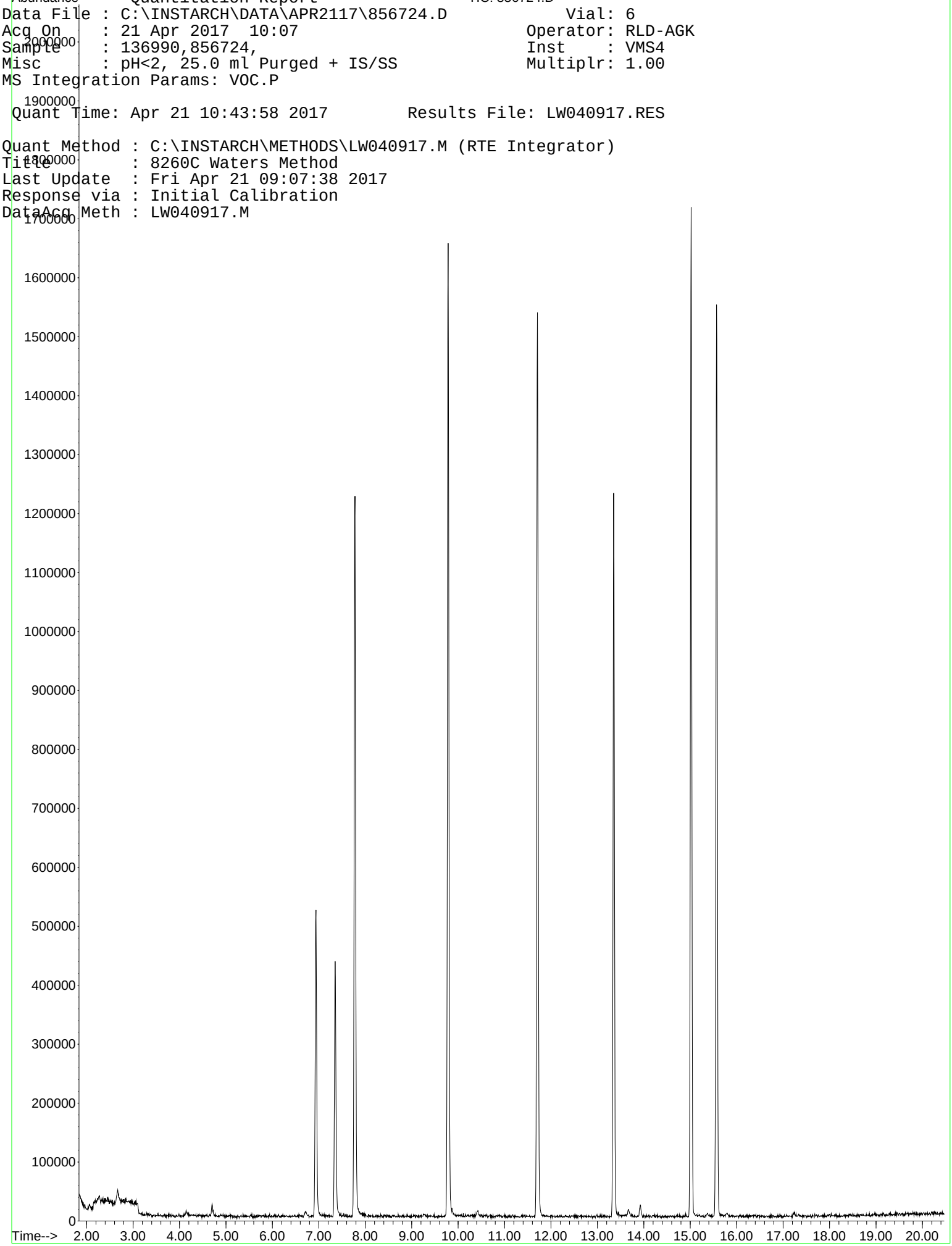
Quantitation Report

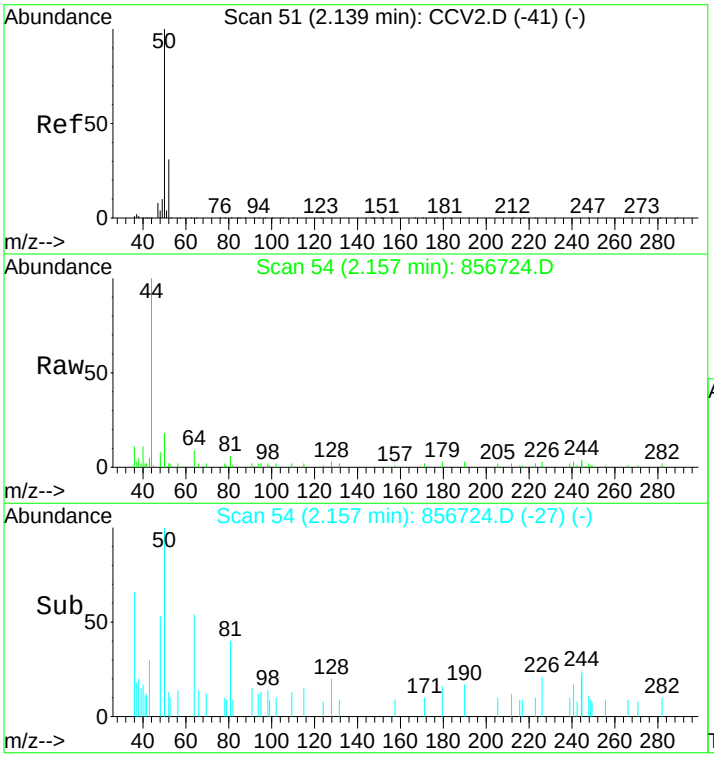
TIC: 856724.D

Data File : C:\INSTARCH\DATA\APR2117\856724.D Vial: 6
Acq On : 21 Apr 2017 10:07 Operator: RLD-AGK
Sample : 136990,856724, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 10:43:58 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

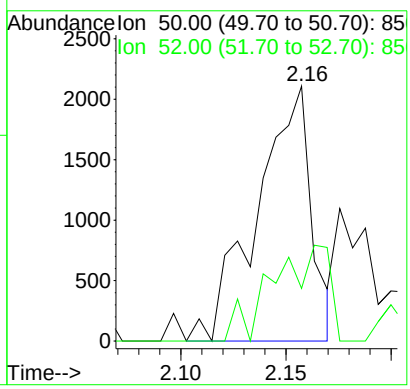


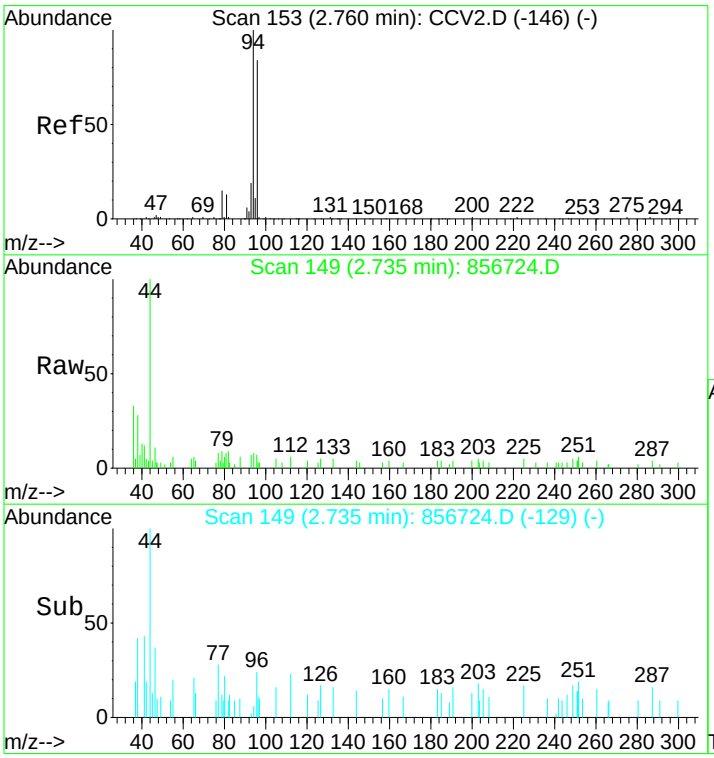


#3
Chloromethan
Concen: 0.03 ug/L
RT: 2.16 min Scan# 54
Delta R.T. 0.01 min
Lab File: 856724.D
Acq: 21 Apr 2017 10:07

Tgt Ion: 50 Resp: 3780

Ion	Ratio	Lower	Upper
50	100		
52	39.4	13.0	53.0

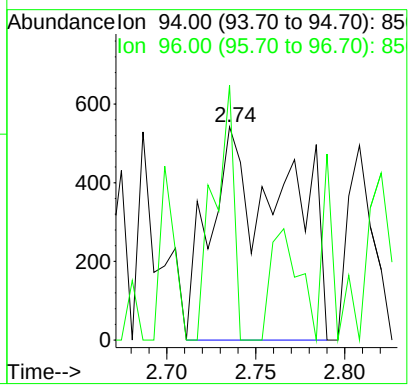




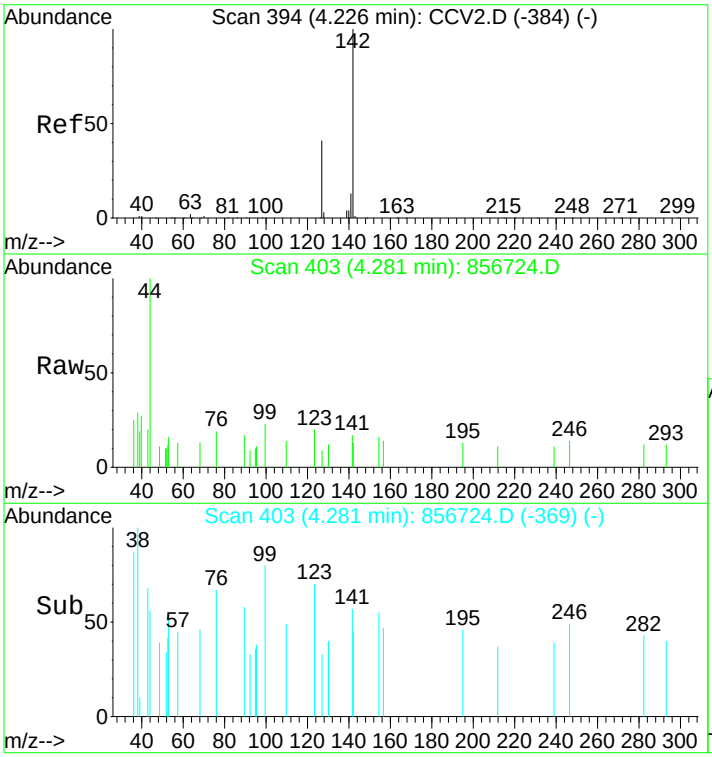
#5
Bromomethane
Concen: 0.04 ug/L
RT: 2.74 min Scan# 149
Delta R.T. -0.03 min
Lab File: 856724.D
Acq: 21 Apr 2017 10:07

Tgt Ion: 94 Resp: 1631

Ion	Ratio	Lower	Upper
94	100		
96	30.7	73.9	113.9#



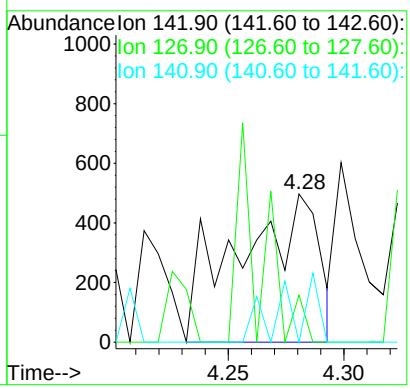
[redacted]



#16
Iodomethane
Concen: 0.36 ug/L
RT: 4.28 min Scan# 403
Delta R.T. 0.06 min
Lab File: 856724.D
Acq: 21 Apr 2017 10:07

Tgt Ion:142 Resp: 1201

Ion	Ratio	Lower	Upper
142	100		
127	42.5	19.4	59.4
141	0.0	0.0	34.2



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\856725.D Vial: 7
Acq On : 21 Apr 2017 10:35 Operator: RLD-AGK
Sample : 136990,856725, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 11:04:01 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1243494	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1075117	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	615200	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	356127	4.206	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	67835	3.944	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 99 %			
61) SURRd8Tolule	9.79	98	1285569	4.141	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 104 %			
83) SURR4BrFBenz	13.35	95	482110	4.045	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 101 %			
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.15	50	6621	0.0547	ug/L	96
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.78	94	767	N.D.		
6) Chloroethane	2.94	64	1414	N.D.		
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	4.14	43	44074	1.8547	ug/L	98
16) Iodomethane	4.22	142	714	0.3466	ug/L #	44
17) Carbon Dislf	4.31	76	2671	N.D.		
18) allylchloride	4.52	41	752	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	67226	0.4920	ug/L	99
21) tbutylalcohol	4.90	59	3441	Below	Cal	79
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	6.70	42	1568	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\856725.D Vial: 7
Acq On : 21 Apr 2017 10:35 Operator: RLD-AGK
Sample : 136990,856725, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 11:04:01 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.73	83	1310	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	7.42	78	3745	N.D.	
47)	12dichlorota	7.38	62	553	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)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.63	43	1090	N.D.	
62)	Toluene	9.87	92	75277	0.3873 ug/L	94
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	10.61	166	552	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.72	43	1264	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	11.75	112	864	N.D.	
73)	1Clhexane	11.71	91	2592	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	11.90	91	5416	N.D.	
76)	m p-Xylene	12.07	106	6429	N.D.	
77)	o-Xylene	12.62	106	4079	0.0273 ug/L #	64
78)	Styrene	12.63	104	3105	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	13.14	105	914	N.D.	
81)	cyclohexanone	13.35	55	1406	Below Cal #	45
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	13.72	91	1525	N.D.	
89)	2chlorotolue	13.72	91	1307	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	14.00	105	966	N.D.	
92)	tbutylbenzen	14.53	119	570	N.D.	
93)	124Trimetben	14.53	105	4187	N.D.	
94)	sbutylbenzen	14.77	105	530	N.D.	
95)	13Diclorbenz	15.01	146	572	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	15.04	146	602	N.D.	
98)	12dichlorobe	15.57	146	541	N.D.	
99)	nButylbenzen	15.58	91	1794	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\856725.D Vial: 7
Acq On : 21 Apr 2017 10:35 Operator: RLD-AGK
Sample : 136990,856725, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 11:04:01 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

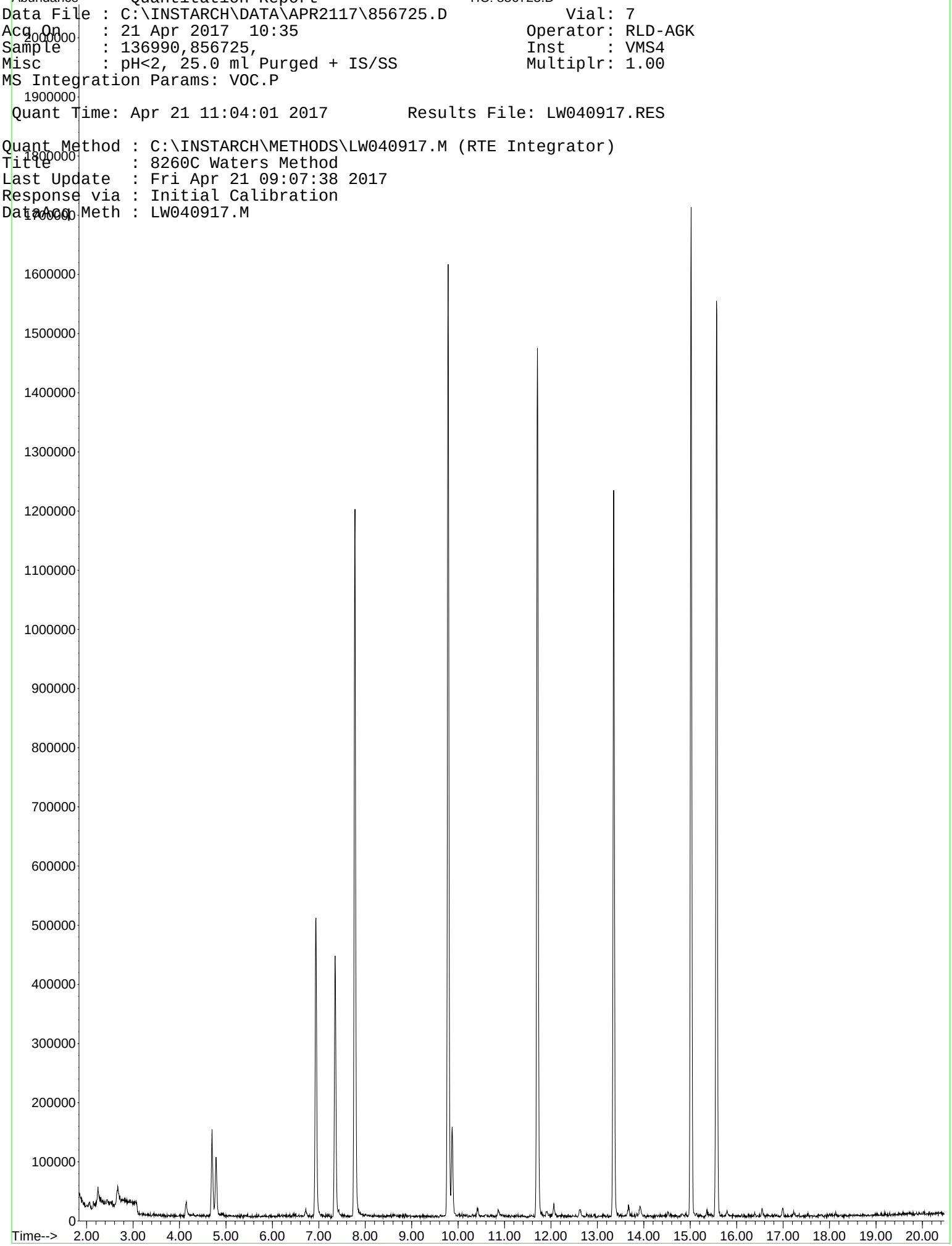
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.13	128	2968	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

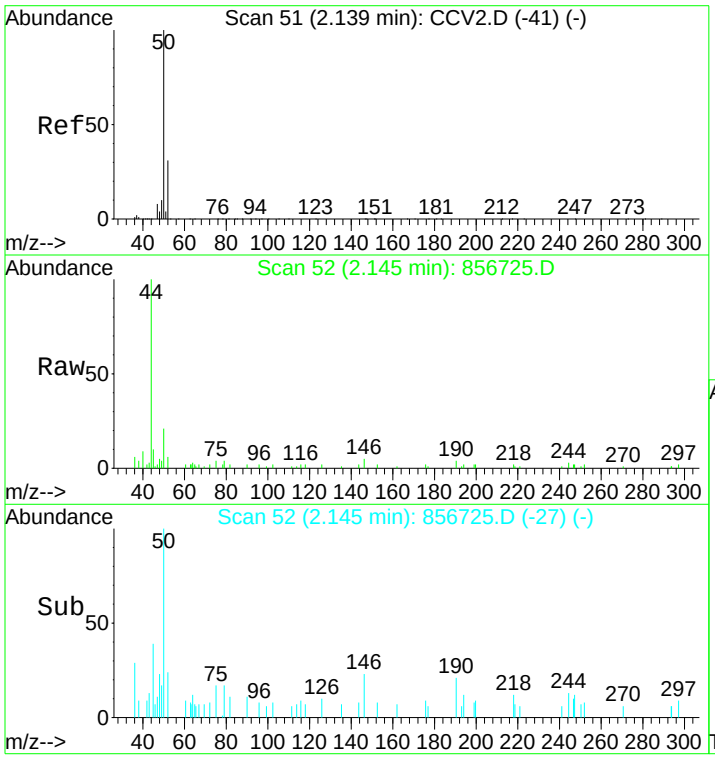
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\APR2117\856725.D Vial: 7
Acq On : 21 Apr 2017 10:35 Operator: RLD-AGK
Sample : 136990,856725, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 11:04:01 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

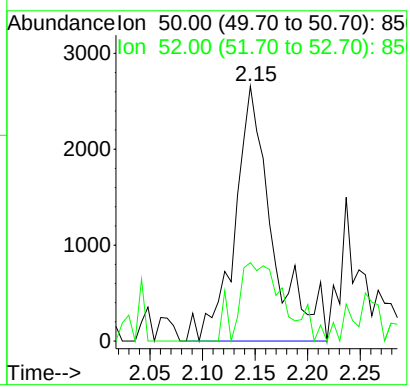


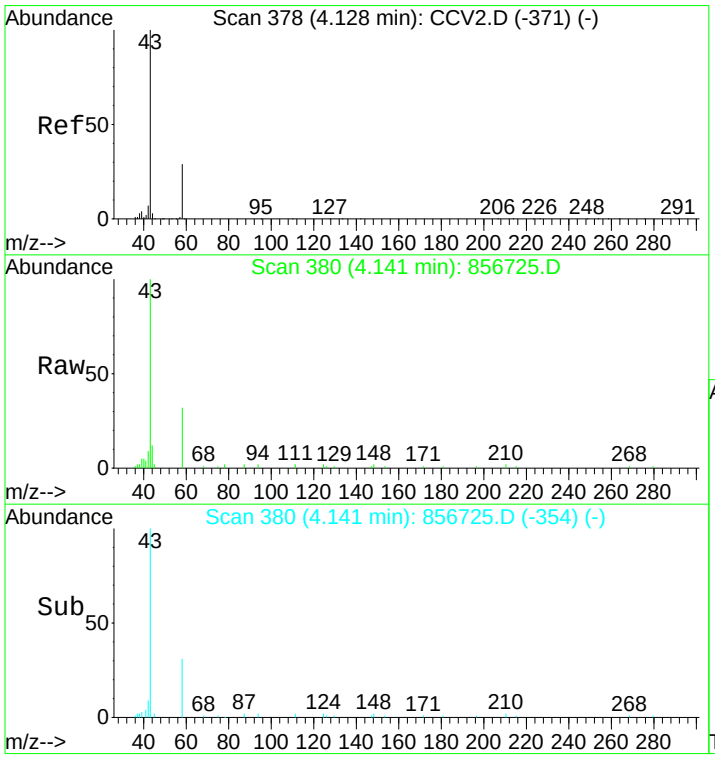


#3
Chloromethan
Concen: 0.05 ug/L
RT: 2.15 min Scan# 52
Delta R.T. 0.00 min
Lab File: 856725.D
Acq: 21 Apr 2017 10:35

Tgt Ion: 50 Resp: 6621

Ion	Ratio	Lower	Upper
50	100		
52	35.1	13.0	53.0

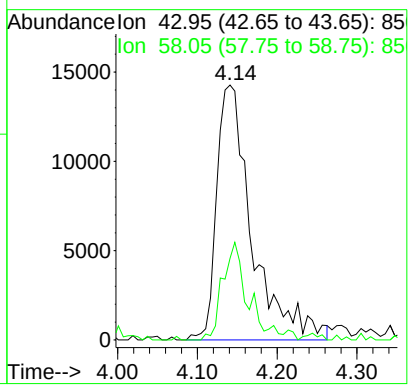


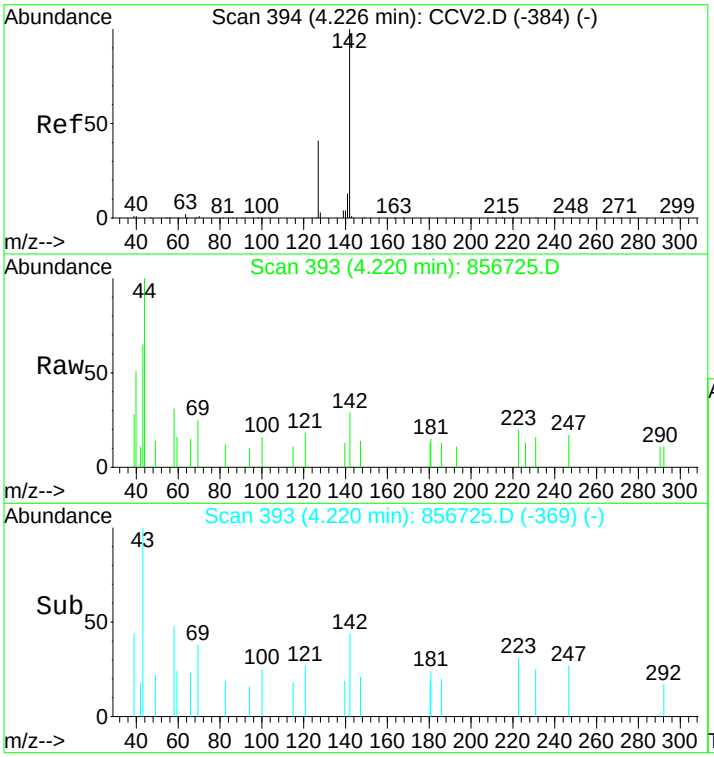


#15
Acetone
Concen: 1.85 ug/L
RT: 4.14 min Scan# 380
Delta R.T. 0.01 min
Lab File: 856725.D
Acq: 21 Apr 2017 10:35

Tgt Ion: 43 Resp: 44074

Ion	Ratio	Lower	Upper
43	100		
58	27.9	6.9	46.9

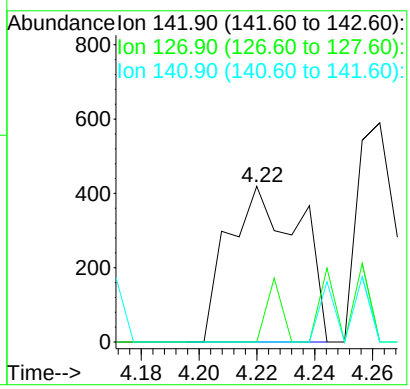


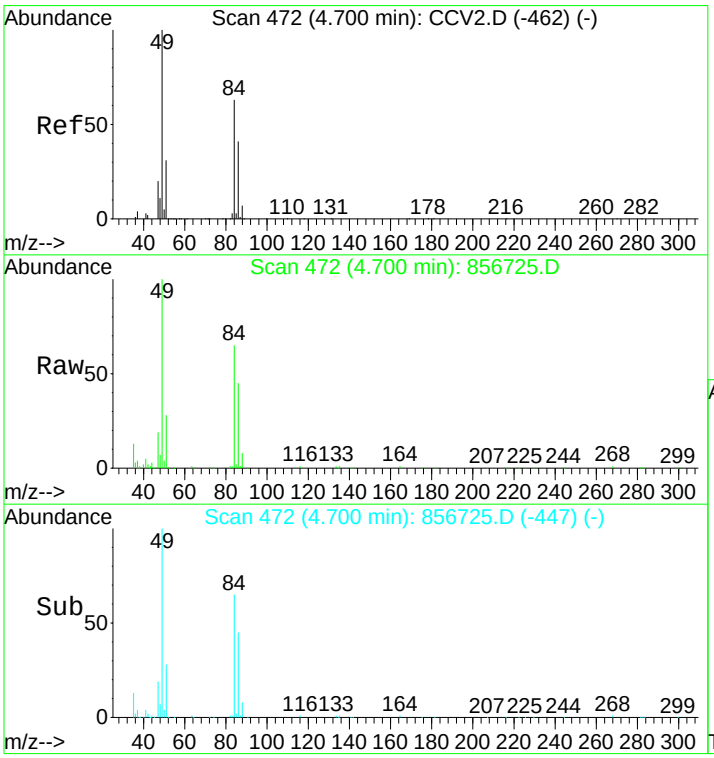


#16
Iodomethane
Concen: 0.35 ug/L
RT: 4.22 min Scan# 393
Delta R.T. -0.01 min
Lab File: 856725.D
Acq: 21 Apr 2017 10:35

Tgt Ion:142 Resp: 714

Ion	Ratio	Lower	Upper
142	100		
127	0.0	19.4	59.4#
141	0.0	0.0	34.2

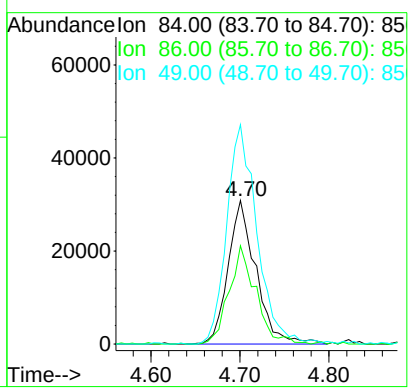


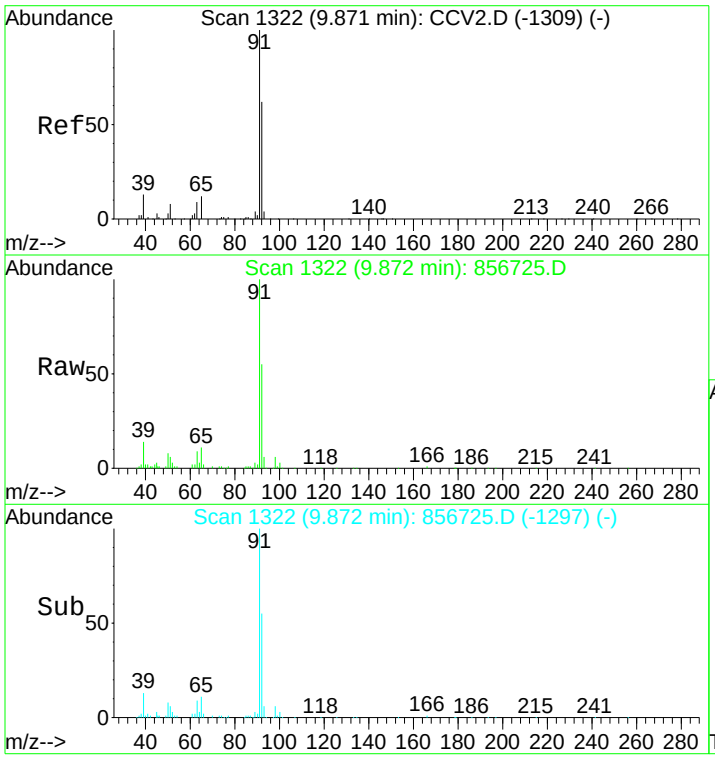


#20
Methylchlorid
Concen: 0.49 ug/L
RT: 4.70 min Scan# 472
Delta R.T. 0.00 min
Lab File: 856725.D
Acq: 21 Apr 2017 10:35

Tgt Ion: 84 Resp: 67226

Ion	Ratio	Lower	Upper
84	100		
86	65.7	44.9	84.9
49	166.0	147.0	187.0

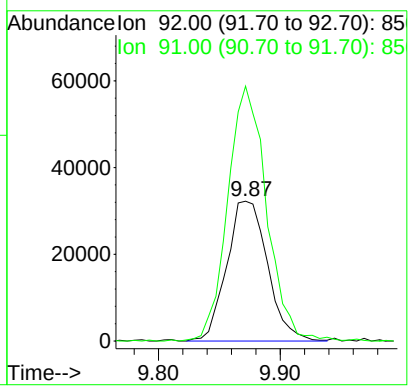


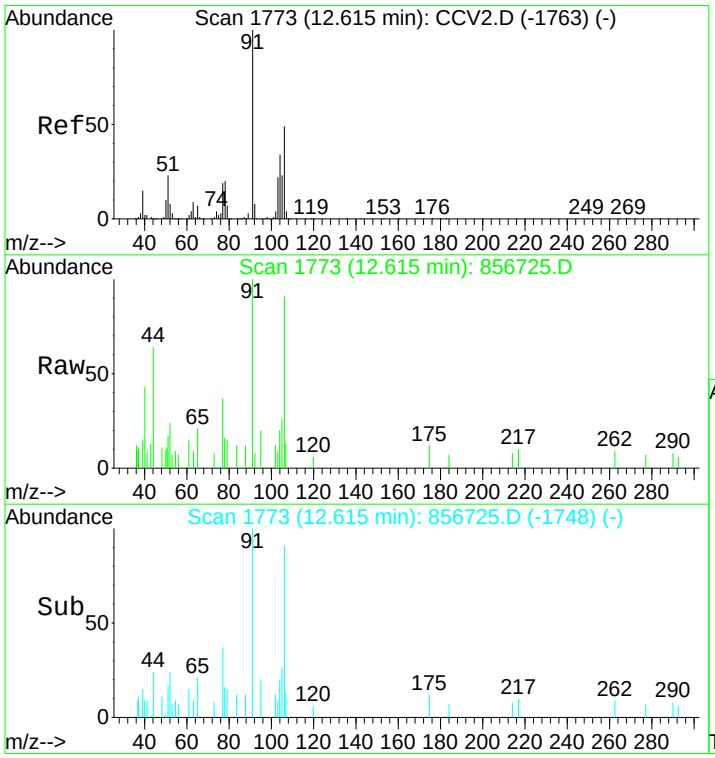


#62
Toluene
Concen: 0.39 ug/L
RT: 9.87 min Scan# 1322
Delta R.T. 0.00 min
Lab File: 856725.D
Acq: 21 Apr 2017 10:35

Tgt Ion: 92 Resp: 75277

Ion	Ratio	Lower	Upper
92	100		
91	173.9	145.8	185.8

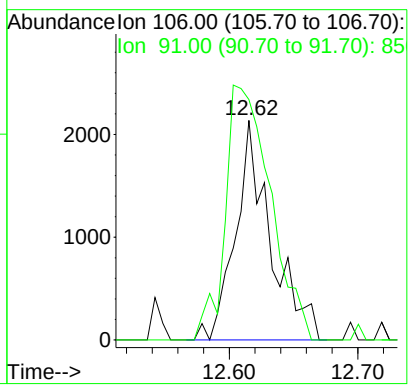




#77
o-Xylene
Concen: 0.03 ug/L
RT: 12.62 min Scan# 1773
Delta R.T. 0.00 min
Lab File: 856725.D
Acq: 21 Apr 2017 10:35

Tgt Ion:106 Resp: 4079

Ion	Ratio	Lower	Upper
106	100		
91	148.8	183.4	223.4#



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\856732.D Vial: 8
Acq On : 21 Apr 2017 11:03 Operator: RLD-AGK
Sample : 136990,856732, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 11:29:41 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1226879	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1078505	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	595865	4.00 ug/L	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.93	113	350167	4.192 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 105 %		
45) SURR12DCAd4	7.35	102	71178	4.195 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 105 %		
61) SURRd8Tolule	9.79	98	1287747	4.204 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 105 %		
83) SURR4BrFBenz	13.35	95	463169	4.012 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 100 %		
Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.13	50	3849	0.0323 ug/L	79
4) VinylChlorid	2.28	62	513	N.D.	
5) Bromomethane	2.77	94	1620	0.0454 ug/L #	44
6) Chloroethane	2.91	64	529	N.D.	
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	4.16	43	16199	Below Cal	96
16) Iodomethane	4.22	142	1388	0.3612 ug/L #	44
17) Carbon Dislf	4.30	76	2984	N.D.	
18) allylchloride	4.56	41	547	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.71	84	7230	Below Cal	88
21) tbutylalcohol	4.92	59	1843	Below Cal	71
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	6.75	42	1979	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\856732.D Vial: 8
Acq On : 21 Apr 2017 11:03 Operator: RLD-AGK
Sample : 136990,856732, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 11:29:41 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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)	2CLEVE	9.27	63	1793	0.1803 ug/L #	45
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	9.88	92	1439	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.72	91	2774	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.33	55	523	Below Cal #	45
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	15.01	146	588	N.D.	
96)	pIsopropylto	15.00	119	829	N.D.	
97)	14dichlorobe	15.01	146	588	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.58	91	1858	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\856732.D Vial: 8
Acq On : 21 Apr 2017 11:03 Operator: RLD-AGK
Sample : 136990,856732, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 11:29:41 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	0.00	128	0	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

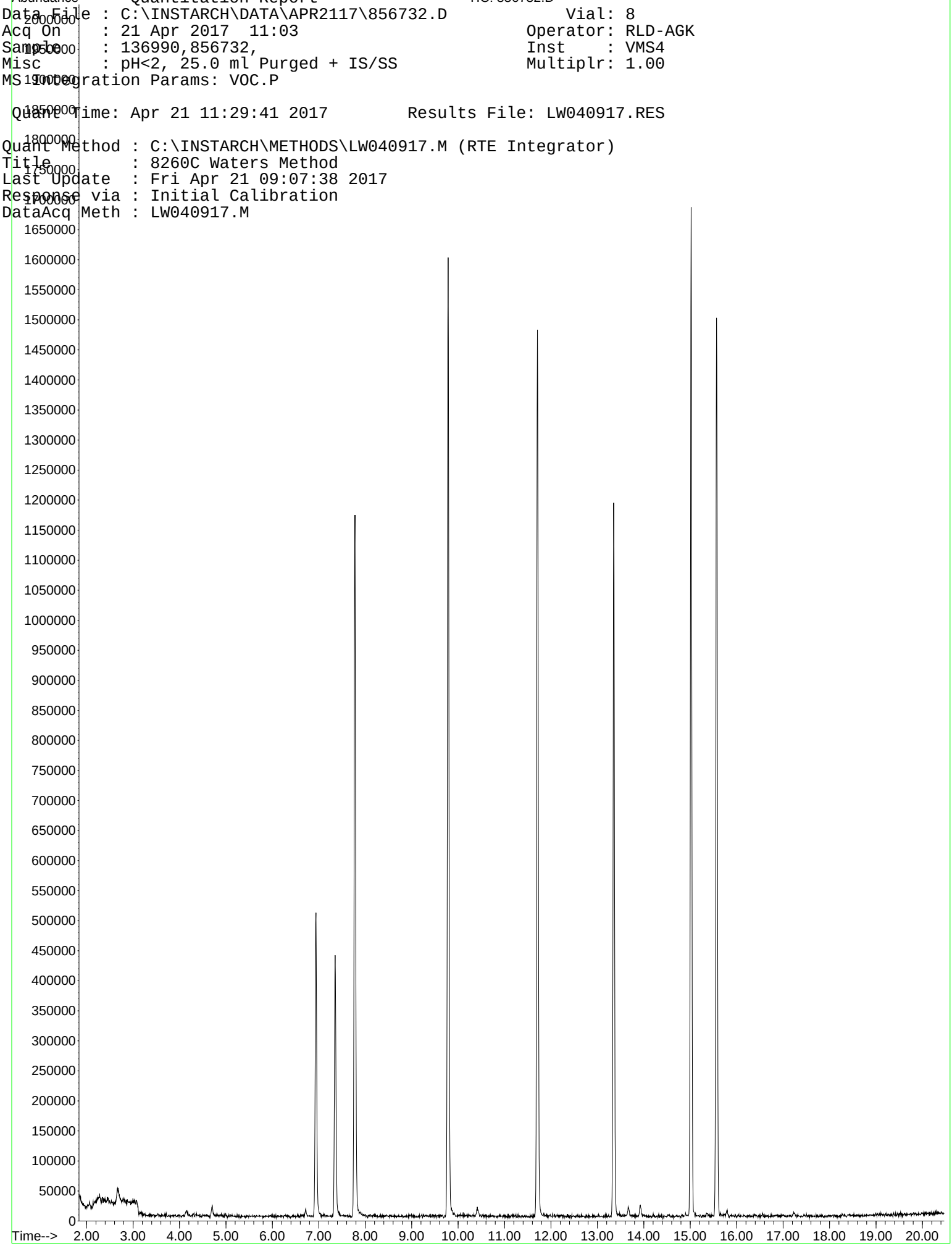
(#) = qualifier out of range (m) = manual integration

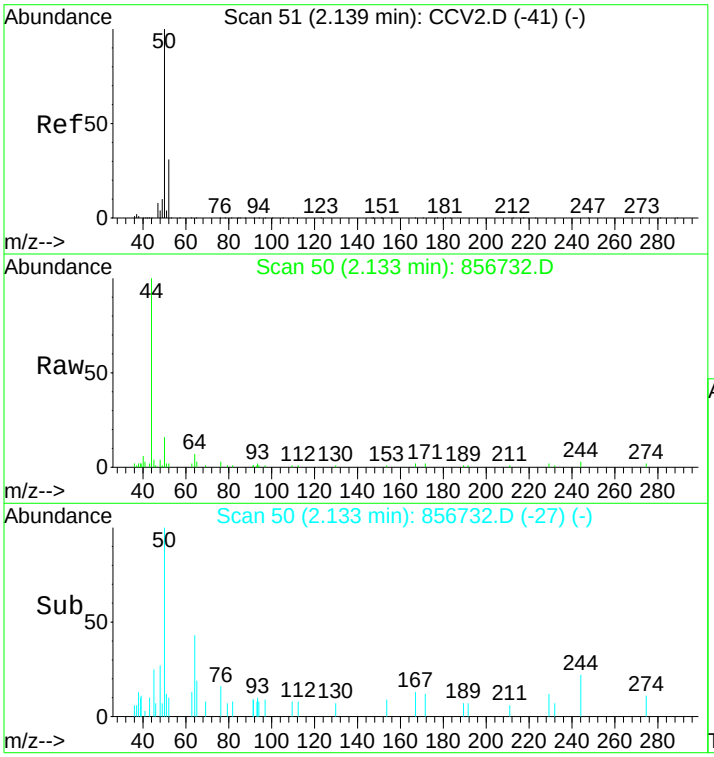
Abundance Quantitation Report TIC: 856732.D

Data File : C:\INSTARCH\DATA\APR2117\856732.D Vial: 8
Acq On : 21 Apr 2017 11:03 Operator: RLD-AGK
Sample : 136990,856732, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 11:29:41 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

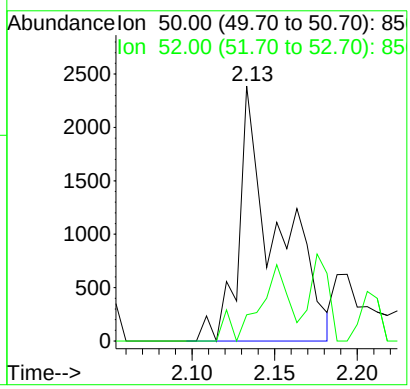


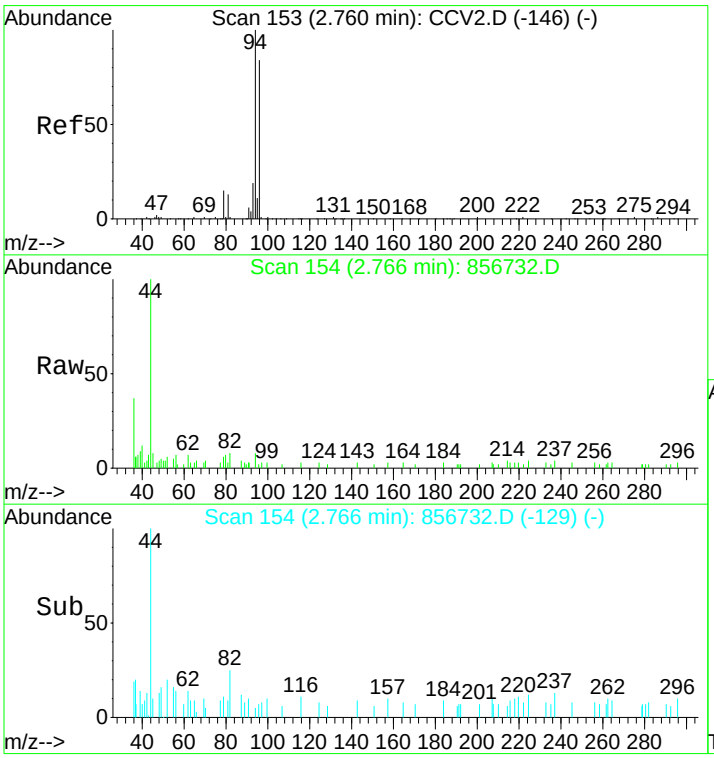


#3
Chloromethan
Concen: 0.03 ug/L
RT: 2.13 min Scan# 50
Delta R.T. -0.01 min
Lab File: 856732.D
Acq: 21 Apr 2017 11:03

Tgt Ion: 50 Resp: 3849

Ion	Ratio	Lower	Upper
50	100		
52	21.2	13.0	53.0

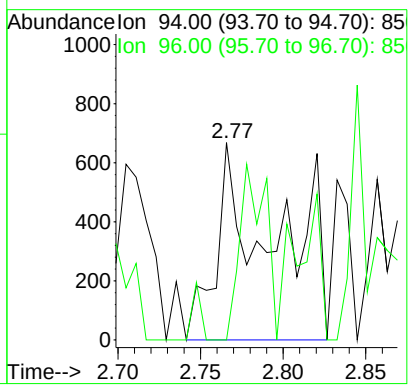




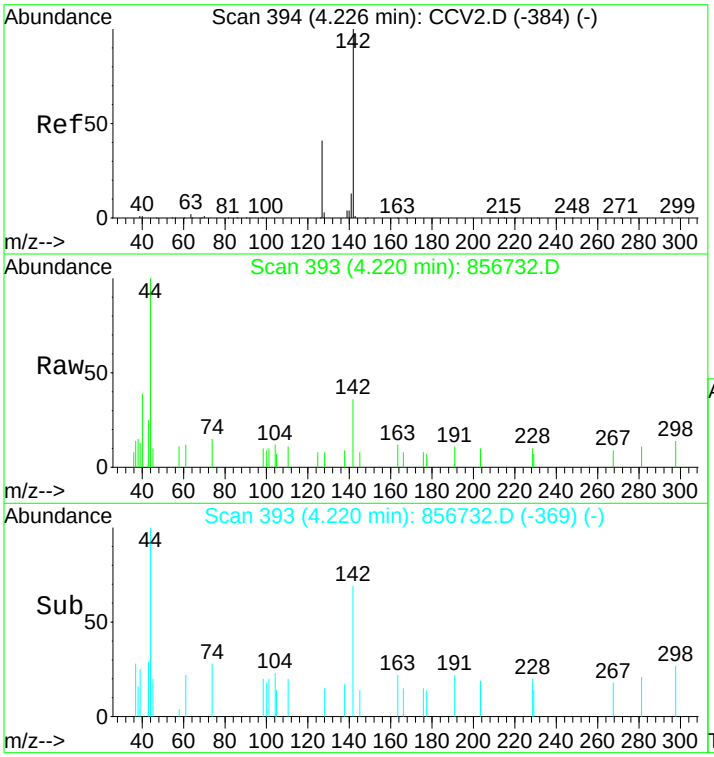
#5
Bromomethane
Concen: 0.05 ug/L
RT: 2.77 min Scan# 154
Delta R.T. -0.00 min
Lab File: 856732.D
Acq: 21 Apr 2017 11:03

Tgt Ion: 94 Resp: 1620

Ion	Ratio	Lower	Upper
94	100		
96	39.9	73.9	113.9#



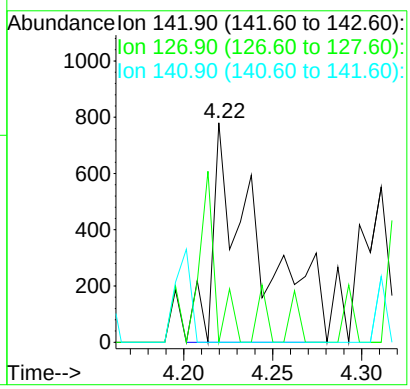
[redacted]



#16
Iodomethane
Concen: 0.36 ug/L
RT: 4.22 min Scan# 393
Delta R.T. -0.01 min
Lab File: 856732.D
Acq: 21 Apr 2017 11:03

Tgt Ion:142 Resp: 1388

Ion	Ratio	Lower	Upper
142	100		
127	0.0	19.4	59.4#
141	0.0	0.0	34.2



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\856733.D Vial: 9
Acq On : 21 Apr 2017 11:31 Operator: RLD-AGK
Sample : 136990,856733, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 12:02:38 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1242263	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1079973	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	611192	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	352011	4.161	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 104	%		
45) SURR12DCAd4	7.35	102	68774	4.003	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 100	%		
61) SURRd8Tolule	9.79	98	1302784	4.201	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 105	%		
83) SURR4BrFBenz	13.35	95	475067	4.012	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.14	50	5700	0.0472	ug/L	98
4) VinylChlorid	2.30	62	909	N.D.		
5) Bromomethane	2.77	94	1071	N.D.		
6) Chloroethane	2.85	64	699	N.D.		
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	4.14	43	39835	1.5558	ug/L	98
16) Iodomethane	4.24	142	537	0.3428	ug/L #	44
17) Carbon Dislf	4.30	76	2120	N.D.		
18) allylchloride	4.52	41	1736	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	81844	0.7060	ug/L	99
21) tbutylalcohol	4.91	59	2556	Below Cal	#	45
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	5.56	43	535	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	6.74	42	2451	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\856733.D Vial: 9
Acq On : 21 Apr 2017 11:31 Operator: RLD-AGK
Sample : 136990,856733, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 12:02:38 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.73	83	927	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	7.42	78	2966	N.D.		
47)	12dichlorota	7.38	62	587	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	8.70	69	562	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)	2CLEVE	0.00	63	0	N.D.		
59)	c13dicloproe	0.00	75	0	N.D.		
60)	4Meth2Pentan	9.65	43	1133	N.D.		
62)	Toluene	9.88	92	101486	0.5226	ug/L	97
63)	t13Dicloprop	0.00	75	0	N.D.		
64)	ethylmethacrylate	0.00	69	0	N.D.		
65)	112Triclotha	0.00	83	0	N.D.		
66)	Tetrachlorte	10.59	166	1064	N.D.		
67)	13Diclorpropa	0.00	76	0	N.D.		
69)	2Hexanone	10.78	43	506	N.D.		
70)	Clorodibrmta	0.00	129	0	N.D.		
71)	12Dibrometha	0.00	107	0	N.D.		
72)	Chlorobenzen	11.75	112	1246	N.D.		
73)	1Clhexane	11.70	91	2644	N.D.		
74)	1112Tetclota	0.00	131	0	N.D.		
75)	Ethylbenzene	11.90	91	5494	N.D.		
76)	m p-Xylene	12.06	106	8945	N.D.		
77)	o-Xylene	12.63	106	3345	N.D.		
78)	Styrene	12.63	104	3442	N.D.		
79)	Bromoform	0.00	173	0	N.D.		
80)	Isopropylben	13.13	105	688	N.D.		
81)	cyclohexanone	13.34	55	2039	Below	Cal #	45
84)	Bromobenzene	0.00	156	0	N.D.		
85)	1122Tetrclta	0.00	83	0	N.D.		
86)	123Triclproa	0.00	75	0	N.D.		
87)	14dichloro2butene	0.00	53	0	N.D.		
88)	n-Propylbenz	13.74	91	681	N.D.		
89)	2chlorotolue	13.86	91	533	N.D.		
90)	4chlorotolue	0.00	91	0	N.D.		
91)	135Trimebenz	13.98	105	981	N.D.		
92)	tbutylbenzen	0.00	119	0	N.D.		
93)	124Trimetben	14.51	105	2702	N.D.		
94)	sbutylbenzen	0.00	105	0	N.D.		
95)	13Diclorbenz	15.03	146	659	N.D.		
96)	pIsopropylto	0.00	119	0	N.D.		
97)	14dichlorobe	15.03	146	659	N.D.		
98)	12dichlorobe	15.55	146	772	N.D.		
99)	nButylbenzen	15.57	91	1746	N.D.		
100)	12dibromo3cl	0.00	157	0	N.D.		
101)	135Trichlorobenzene	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\856733.D Vial: 9
Acq On : 21 Apr 2017 11:31 Operator: RLD-AGK
Sample : 136990,856733, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 12:02:38 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.		
103) Hexachlorobu	0.00	225	0	N.D.		
104) Naphthalene	18.13	128	1909	N.D.		
105) 123Trichlben	0.00	180	0	N.D.		

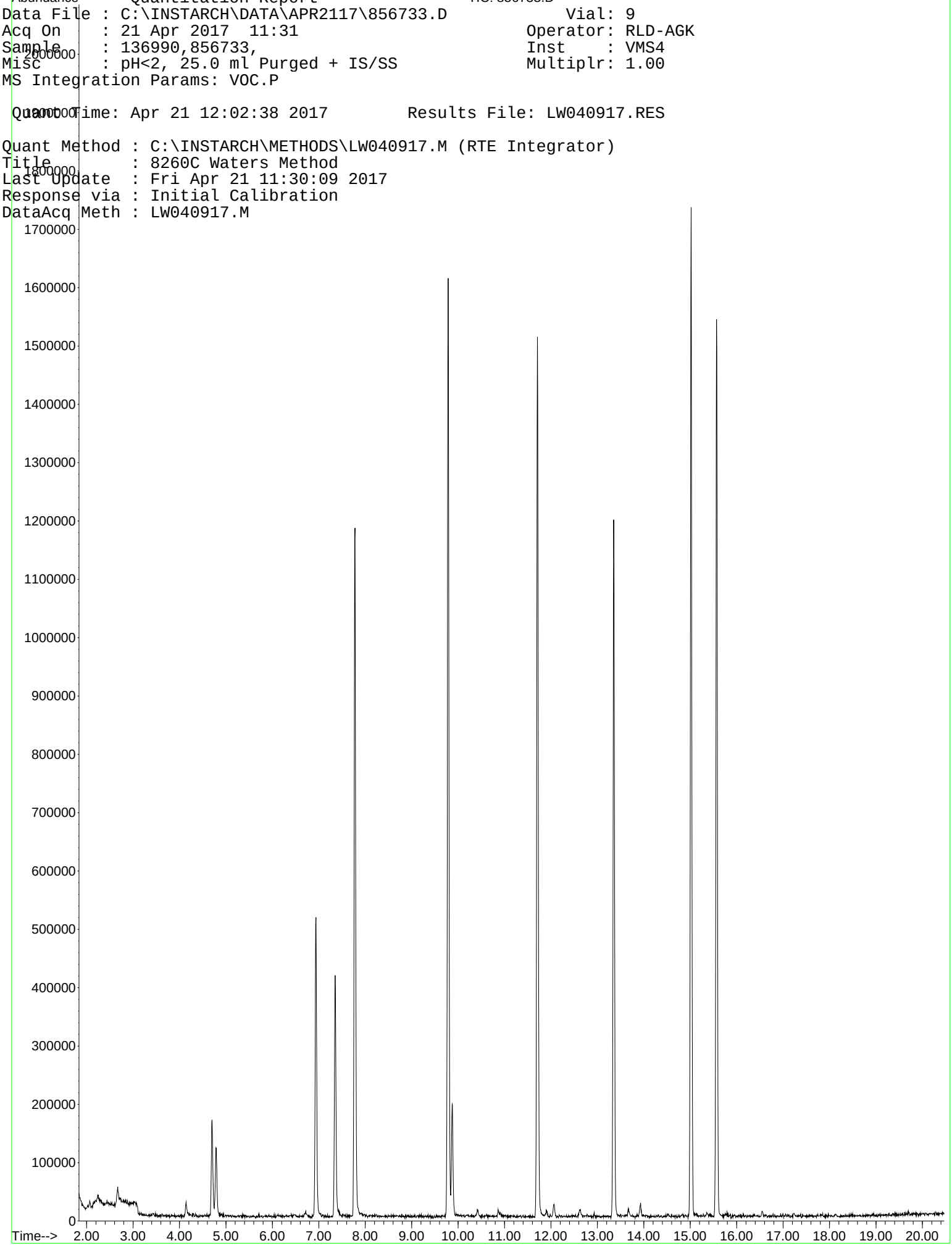
(#) = qualifier out of range (m) = manual integration

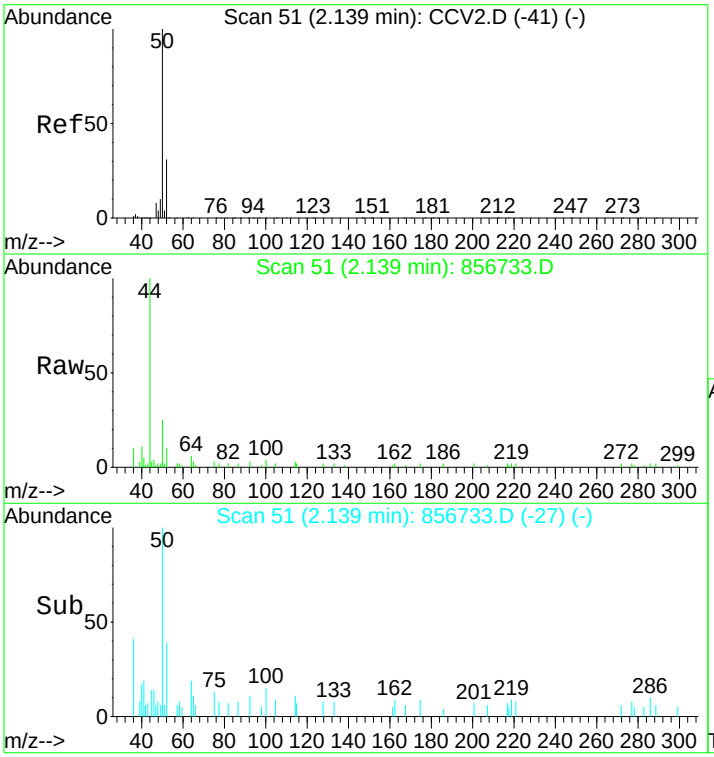
Abundance Quantitation Report TIC: 856733.D

Data File : C:\INSTARCH\DATA\APR2117\856733.D Vial: 9
Acq On : 21 Apr 2017 11:31 Operator: RLD-AGK
Sample : 136990,856733, Inst : VMS4
Misc : pH<2, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 21 12:02:38 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

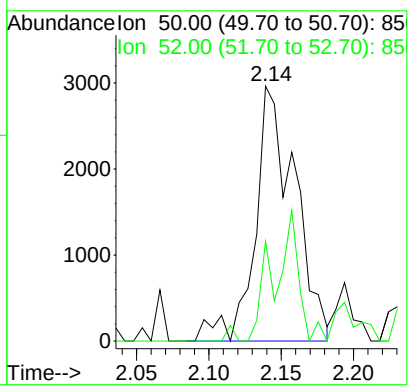


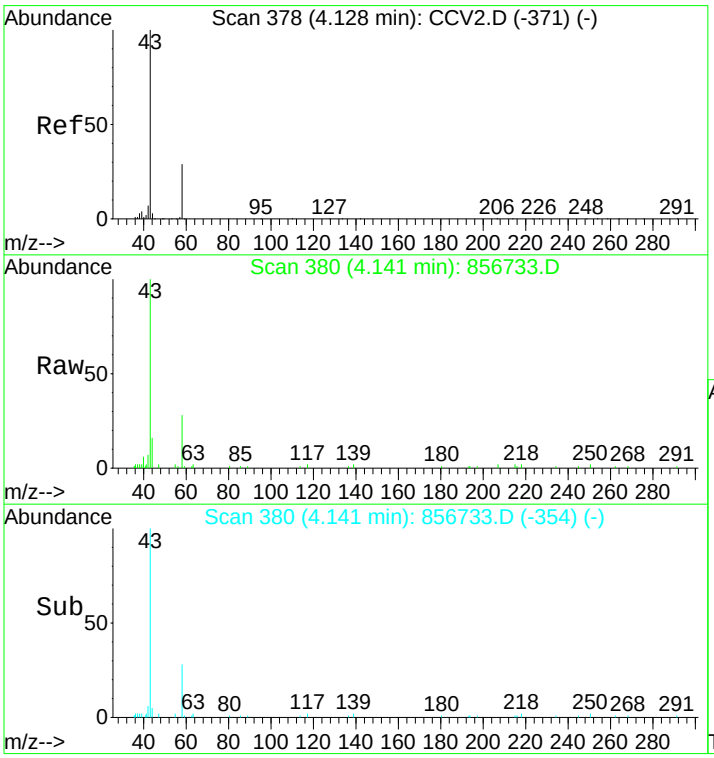


#3
Chloromethan
Concen: 0.05 ug/L
RT: 2.14 min Scan# 51
Delta R.T. -0.01 min
Lab File: 856733.D
Acq: 21 Apr 2017 11:31

Tgt Ion: 50 Resp: 5700

Ion	Ratio	Lower	Upper
50	100		
52	31.9	13.0	53.0

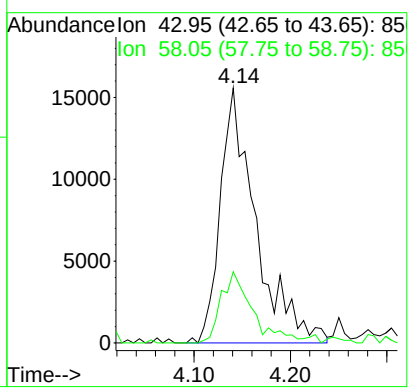


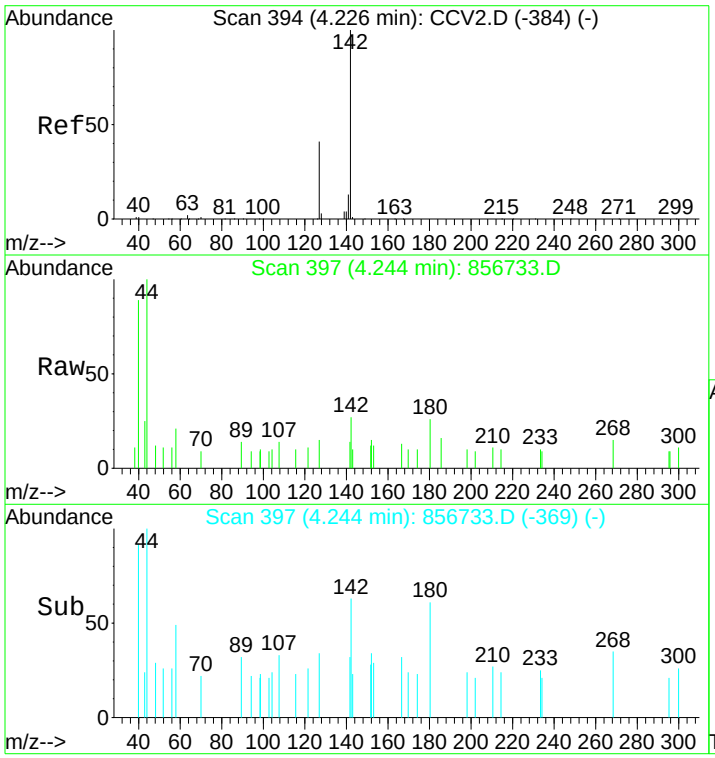


#15
Acetone
Concen: 1.56 ug/L
RT: 4.14 min Scan# 380
Delta R.T. 0.01 min
Lab File: 856733.D
Acq: 21 Apr 2017 11:31

Tgt Ion: 43 Resp: 39835

Ion	Ratio	Lower	Upper
43	100		
58	25.6	6.9	46.9

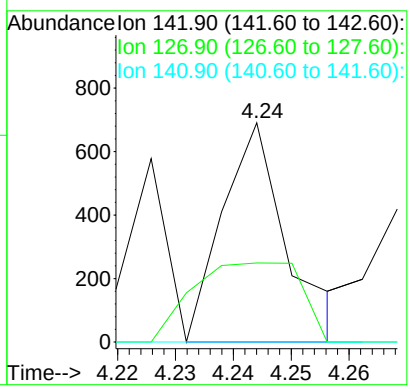


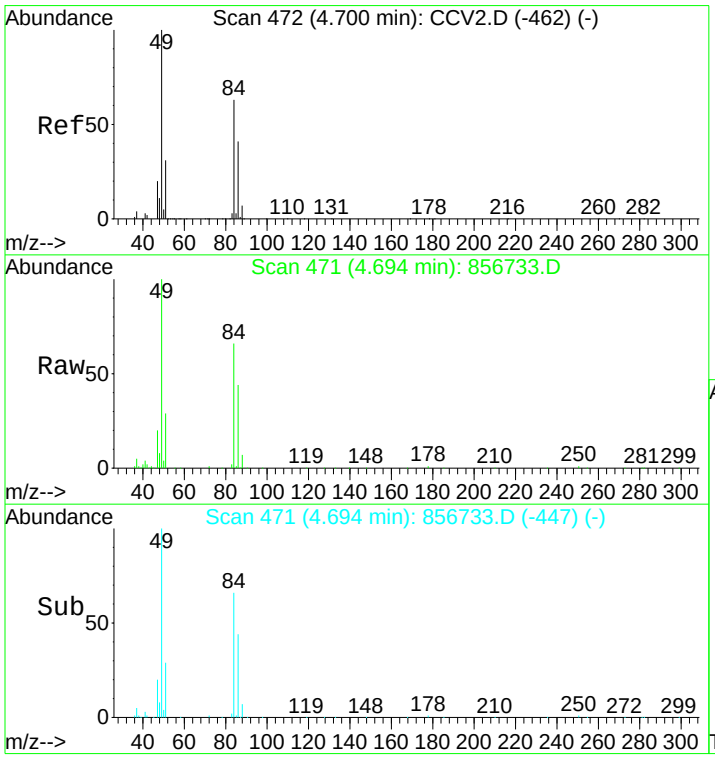


#16
Iodomethane
Concen: 0.34 ug/L
RT: 4.24 min Scan# 397
Delta R.T. 0.02 min
Lab File: 856733.D
Acq: 21 Apr 2017 11:31

Tgt Ion:142 Resp: 537

Ion	Ratio	Lower	Upper
142	100		
127	0.0	19.4	59.4#
141	0.0	0.0	34.2

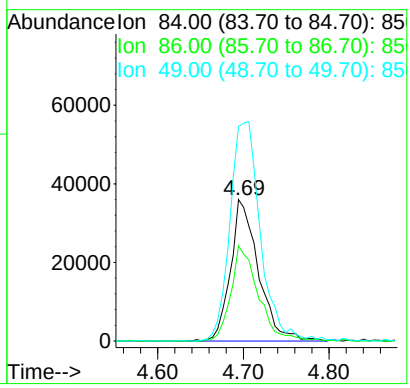


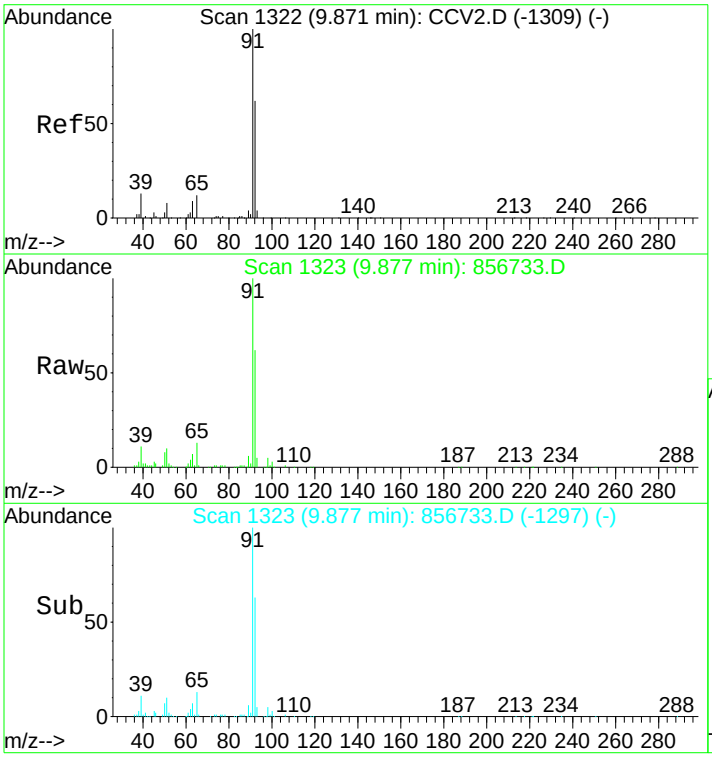


#20
Methylchlorid
Concen: 0.71 ug/L
RT: 4.69 min Scan# 471
Delta R.T. -0.01 min
Lab File: 856733.D
Acq: 21 Apr 2017 11:31

Tgt Ion: 84 Resp: 81844

Ion	Ratio	Lower	Upper
84	100		
86	65.9	44.9	84.9
49	168.6	147.0	187.0

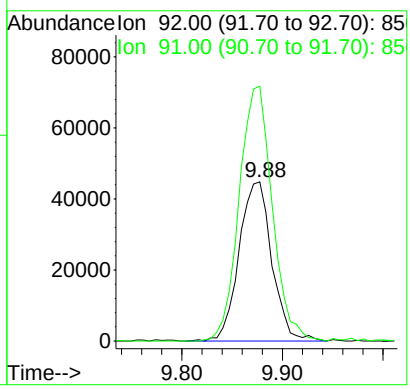




#62
Toluene
Concen: 0.52 ug/L
RT: 9.88 min Scan# 1323
Delta R.T. 0.01 min
Lab File: 856733.D
Acq: 21 Apr 2017 11:31

Tgt Ion: 92 Resp: 101486

Ion	Ratio	Lower	Upper
92	100		
91	161.9	145.8	185.8



Quantitation Report

Data File : C:\Instarch\Data\APR2717B\856713.D Vial: 6
Acq On : 27 Apr 2017 23:06 Operator: RLD-AGK
Sample : 137136,856713, Inst : VMS4
Misc : 6.24g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	905396	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	736854	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	404049	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	241941	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	57443	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.78	98	912528	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	353006	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	22795	0.0022	mg/kg	98
3) Chloromethan	2.12	50	2984	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	1437	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.13	43	68548	0.0182	mg/kg	98
16) Iodomethane	4.24	142	6571	0.0005	mg/kg#	88
17) Carbon Dislf	4.30	76	2701	N.D.		
18) allylchloride	4.52	41	4692	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	14641	Below Cal		97
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	5824	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	1862	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.65	43	1611	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	6.37	72	1503	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	6.71	42	7073	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR2717B\856713.D Vial: 6
Acq On : 27 Apr 2017 23:06 Operator: RLD-AGK
Sample : 137136,856713, Inst : VMS4
Misc : 6.24g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.44	78	4885	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	9.63	43	3241	N.D.	
61)	Toluene	9.87	92	8011	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	10.73	43	3644	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	11.71	91	1664	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	12.07	106	1781	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	13.25	55	1222	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.66	75	1610	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.73	91	1623	N.D.	
88)	2chlorotolue	13.83	91	1135	N.D.	
89)	4chlorotolue	13.99	91	1213	N.D.	
90)	135Trimebenz	13.99	105	1024	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.52	105	15756	N.D.	
93)	sbutylbenzen	14.77	105	1130	N.D.	
94)	13Diclorbenz	14.92	146	1410	N.D.	
95)	pIsopropylto	14.99	119	1508	N.D.	
96)	14dichlorobe	15.05	146	1812	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.59	91	2921	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	17.81	180	2061	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR2717B\856713.D Vial: 6
Acq On : 27 Apr 2017 23:06 Operator: RLD-AGK
Sample : 137136,856713, Inst : VMS4
Misc : 6.24g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

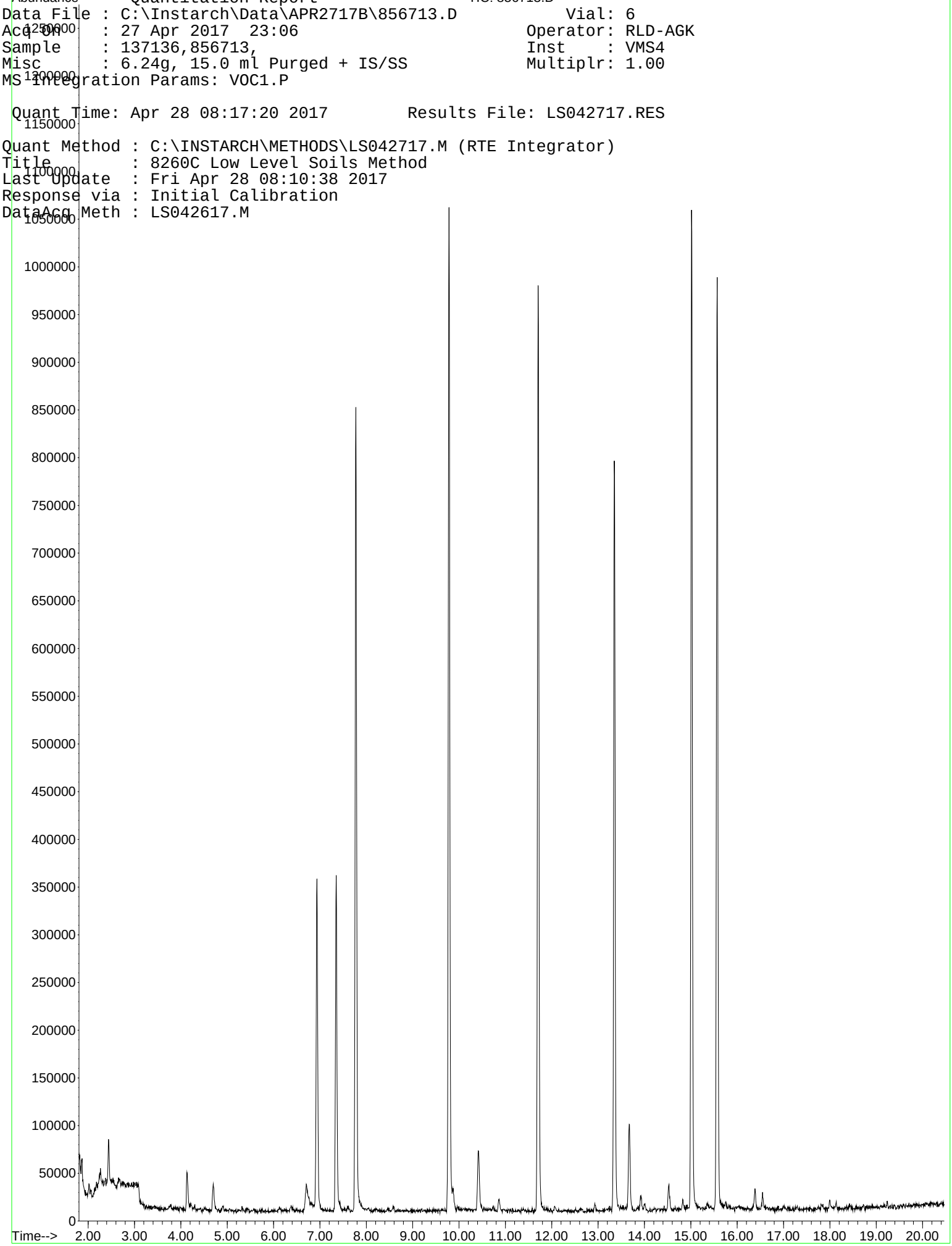
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	6110	N.D.	
104) 123Trichlben	18.43	180	1964	N.D.	

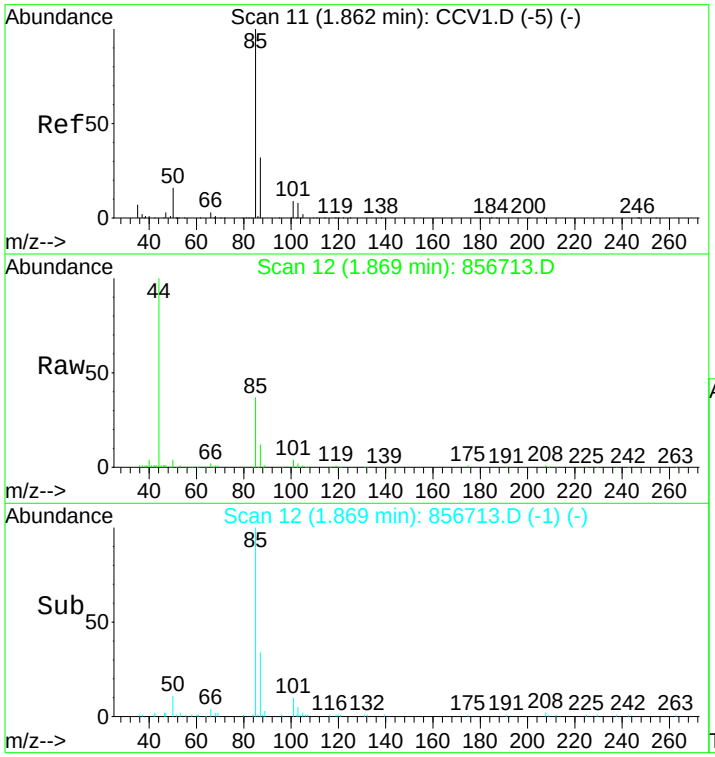
(#) = qualifier out of range (m) = manual integration

Data File : C:\Instarch\Data\APR2717B\856713.D Vial: 6
Acq On : 27 Apr 2017 23:06 Operator: RLD-AGK
Sample : 137136,856713, Inst : VMS4
Misc : 6.24g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

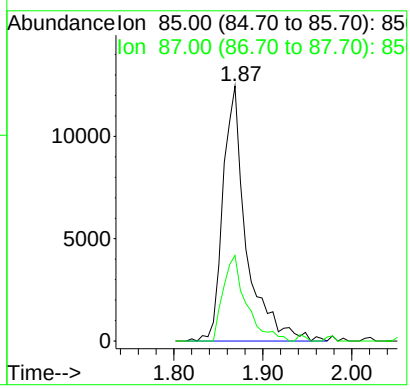


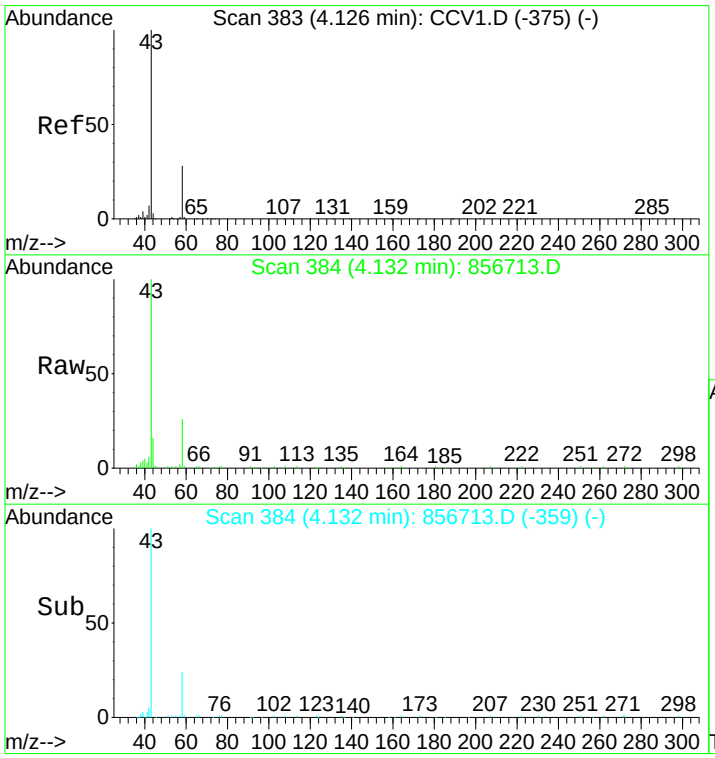


#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.87 min Scan# 12
Delta R.T. 0.00 min
Lab File: 856713.D
Acq: 27 Apr 2017 23:06

Tgt Ion: 85 Resp: 22795

Ion	Ratio	Lower	Upper
85	100		
87	32.9	11.9	51.9

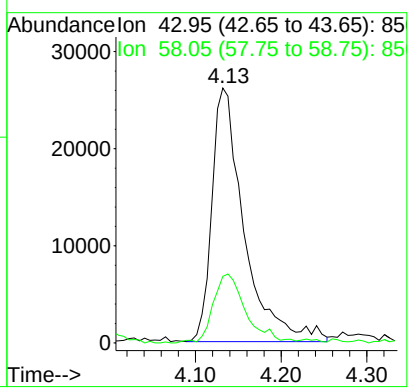


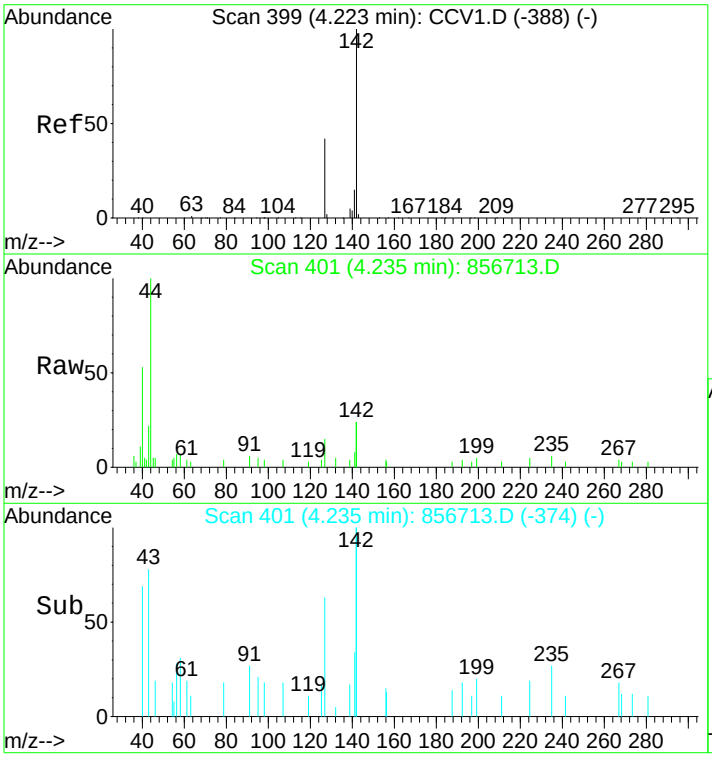


#15
Acetone
Concen: 0.02 mg/kg
RT: 4.13 min Scan# 384
Delta R.T. 0.00 min
Lab File: 856713.D
Acq: 27 Apr 2017 23:06

Tgt Ion: 43 Resp: 68548

Ion	Ratio	Lower	Upper
43	100		
58	28.3	7.4	47.4

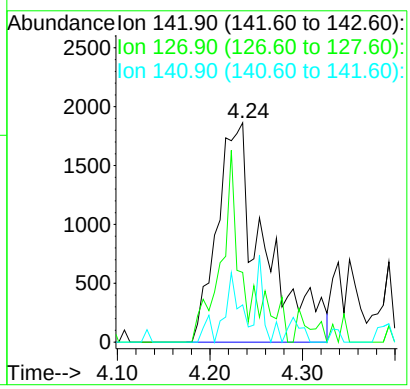




#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.24 min Scan# 401
Delta R.T. 0.02 min
Lab File: 856713.D
Acq: 27 Apr 2017 23:06

Tgt Ion:142 Resp: 6571

Ion	Ratio	Lower	Upper
142	100		
127	42.3	19.8	59.8
141	0.0	0.0	34.5



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856716.D Vial: 7
Acq On : 27 Apr 2017 23:35 Operator: RLD-AGK
Sample : 137136,856716, Inst : VMS4
Misc : 6.15g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:35 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	1054834	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	848593	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	464359	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	279533	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.36	102	64173	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	1052254	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	401176	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	15129	0.0012	mg/kg	97
3) Chloromethan	2.12	50	3623	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	3.92	56	1331	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	58343	0.0133	mg/kg	97
16) Iodomethane	4.22	142	5878	0.0004	mg/kg#	87
17) Carbon Dislf	4.31	76	2932	N.D.		
18) allylchloride	4.54	41	4930	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	15642	Below	Cal	95
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	5767	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.42	57	3259	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	6.71	42	6544	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856716.D Vial: 7
Acq On : 27 Apr 2017 23:35 Operator: RLD-AGK
Sample : 137136,856716, Inst : VMS4
Misc : 6.15g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:35 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.43	78	6527	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	9.08	43	1015	0.0106 mg/kg#	1
58) c13dicloproe	0.00	75	0	N.D.	
59) 4Meth2Pentan	9.63	43	2562	N.D.	
61) Toluene	9.87	92	20333	0.0007 mg/kg	96
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	10.74	43	3362	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	11.70	91	2200	N.D.	
73) 1112Tetclota	0.00	131	0	N.D.	
74) Ethylbenzene	11.90	91	1625	N.D.	
75) m p-Xylene	12.06	106	1974	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	13.24	55	1481	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	13.73	91	1128	N.D.	
88) 2chlorotolue	13.73	91	1128	N.D.	
89) 4chlorotolue	0.00	91	0	N.D.	
90) 135Trimebenz	13.96	105	1024	N.D.	
91) tbutylbenzen	0.00	119	0	N.D.	
92) 124Trimetben	14.53	105	9253	N.D.	
93) sbutylbenzen	0.00	105	0	N.D.	
94) 13Diclorbenz	14.91	146	1099	N.D.	
95) pIsopropylto	14.98	119	1252	N.D.	
96) 14dichlorobe	15.06	146	1688	N.D.	
97) 12dichlorobe	15.58	146	1183	N.D.	
98) nButylbenzen	15.56	91	2339	N.D.	
99) 12dibromo3cl	0.00	157	0	N.D.	
100) 135Trichlorobenzene	0.00	180	0	N.D.	
101) 124Trichlobe	17.83	180	1731	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856716.D Vial: 7
Acq On : 27 Apr 2017 23:35 Operator: RLD-AGK
Sample : 137136,856716, Inst : VMS4
Misc : 6.15g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:35 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.12	128	5014	N.D.	
104) 123Trichlben	18.43	180	1808	N.D.	

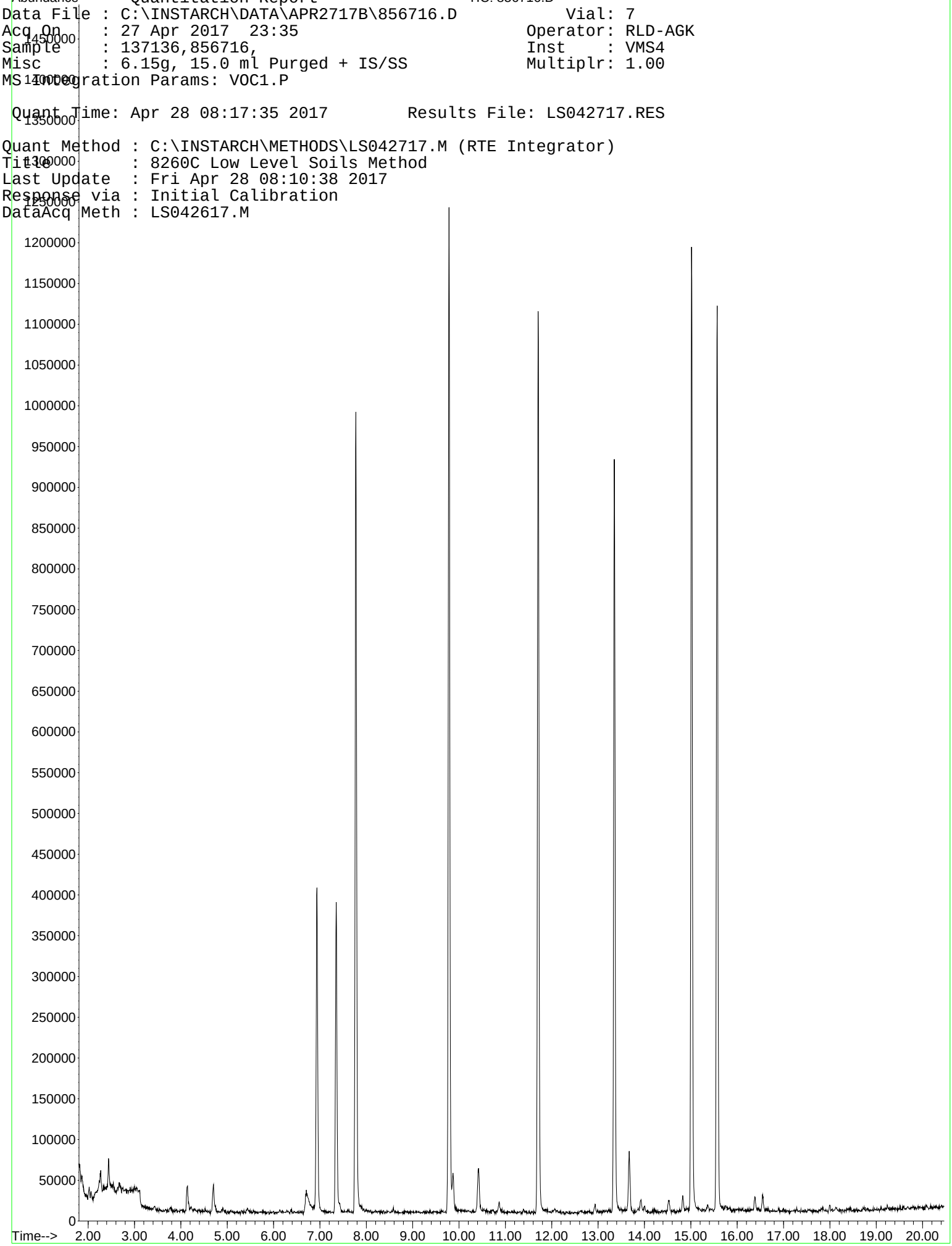
(#) = qualifier out of range (m) = manual integration

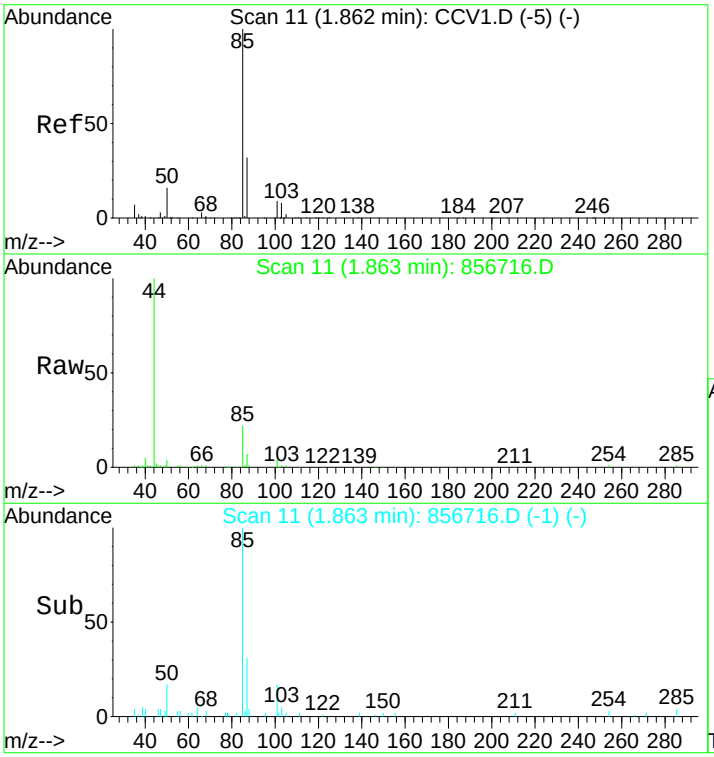
Quantitation Report TIC: 856716.D

Data File : C:\INSTARCH\DATA\APR2717B\856716.D Vial: 7
Acq On : 27 Apr 2017 23:35 Operator: RLD-AGK
Sample : 137136,856716, Inst : VMS4
Misc : 6.15g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:35 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

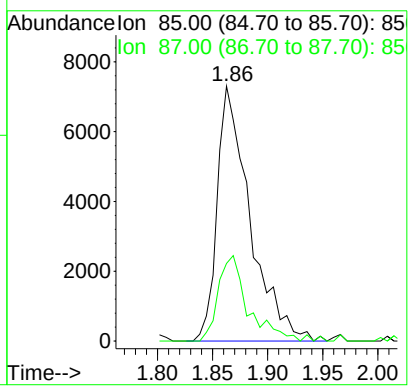


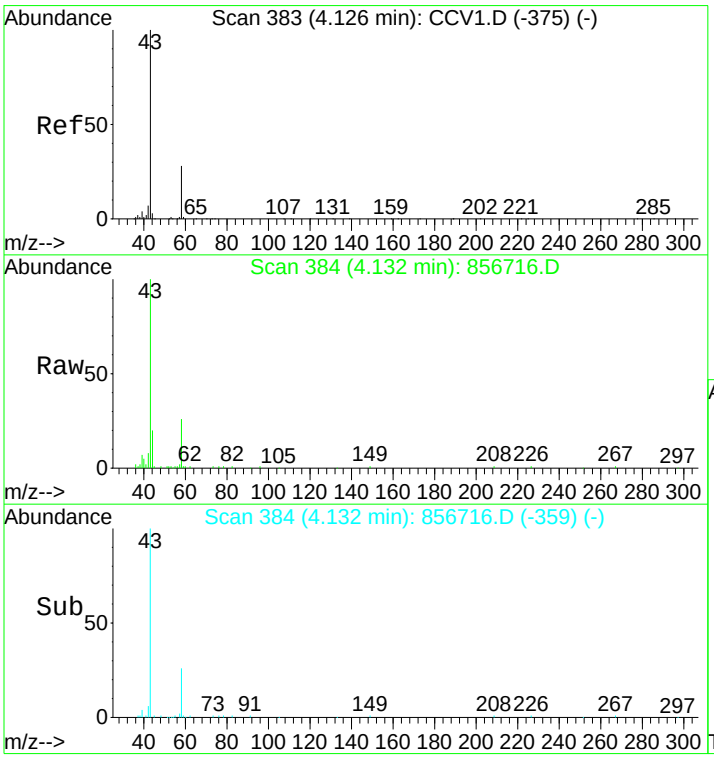


#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.86 min Scan# 11
Delta R.T. -0.00 min
Lab File: 856716.D
Acq: 27 Apr 2017 23:35

Tgt Ion: 85 Resp: 15129

Ion	Ratio	Lower	Upper
85	100		
87	30.1	11.9	51.9

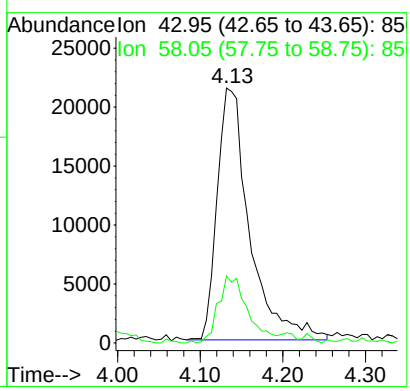


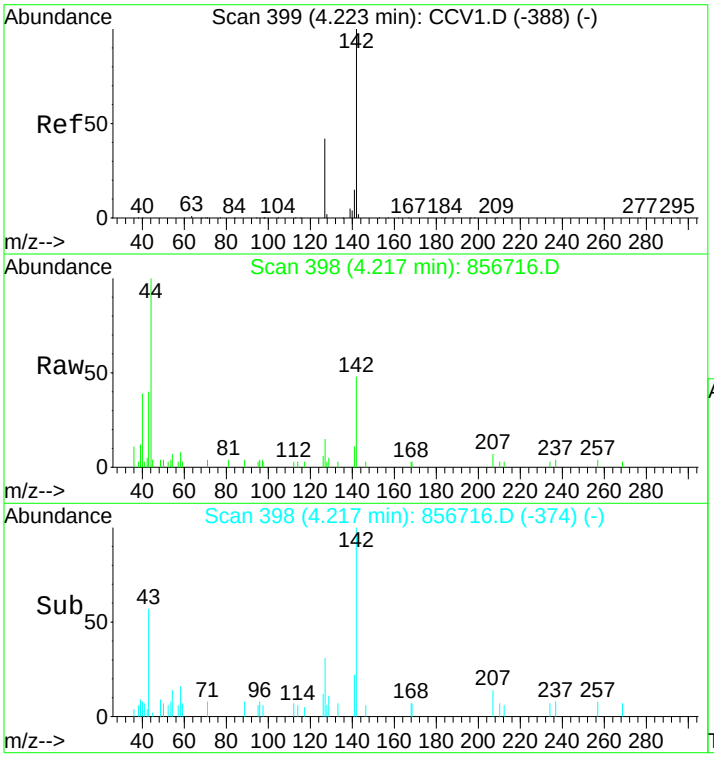


#15
Acetone
Concen: 0.01 mg/kg
RT: 4.13 min Scan# 384
Delta R.T. 0.00 min
Lab File: 856716.D
Acq: 27 Apr 2017 23:35

Tgt Ion: 43 Resp: 58343

Ion	Ratio	Lower	Upper
43	100		
58	26.0	7.4	47.4

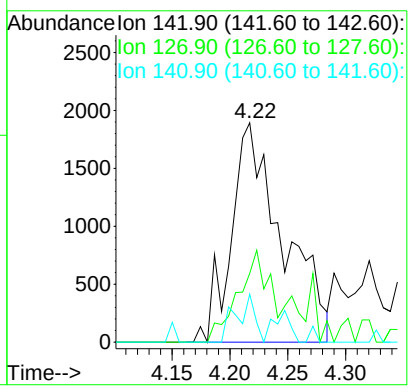


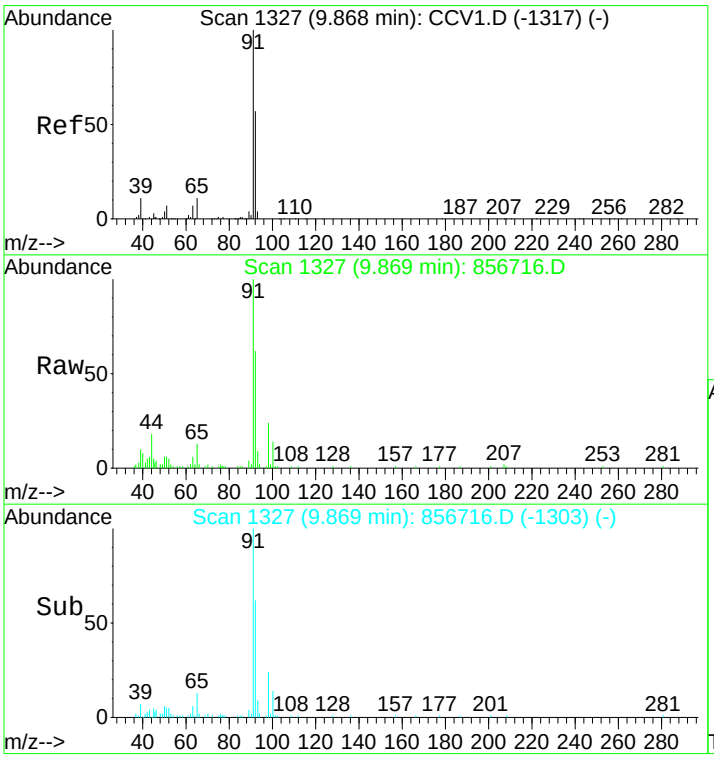


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 398
Delta R.T. -0.00 min
Lab File: 856716.D
Acq: 27 Apr 2017 23:35

Tgt Ion:142 Resp: 5878

Ion	Ratio	Lower	Upper
142	100		
127	37.0	19.8	59.8
141	0.0	0.0	34.5

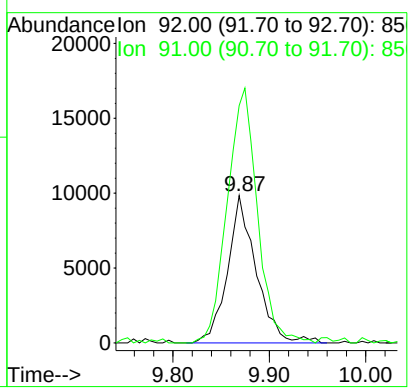




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 856716.D
Acq: 27 Apr 2017 23:35

Tgt Ion: 92 Resp: 20333

Ion	Ratio	Lower	Upper
92	100		
91	182.2	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856717.D Vial: 8
Acq On : 28 Apr 2017 00:04 Operator: RLD-AGK
Sample : 137136,856717, Inst : VMS4
Misc : 6.32g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:50 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	951456	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	758457	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	413838	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	247701	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	57629	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	945513	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	358091	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	12248	0.0011	mg/kg	96
3) Chloromethan	2.12	50	2734	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	1719	N.D.		
6) Chloroethane	2.92	64	1346	N.D.		
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	4.13	43	123978	0.0313	mg/kg	99
16) Iodomethane	4.22	142	10813	0.0008	mg/kg	94
17) Carbon Dislf	4.30	76	4615	N.D.		
18) allylchloride	4.53	41	2608	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	12684	Below Cal		96
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	6808	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	12262	0.0009	mg/kg	99
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	6.38	72	6051	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	6.71	42	5798	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856717.D Vial: 8
Acq On : 28 Apr 2017 00:04 Operator: RLD-AGK
Sample : 137136,856717, Inst : VMS4
Misc : 6.32g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:50 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.09	56	5533	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.43	78	11702	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	8.47	83	2393	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	9.19	43	1980	0.0110	mg/kg#	67
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.64	43	4417	N.D.		
61)	Toluene	9.87	92	42156	0.0017	mg/kg	98
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	10.73	43	4131	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	11.71	91	1950	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.91	91	2919	N.D.		
75)	m p-Xylene	12.05	106	3055	N.D.		
76)	o-Xylene	12.62	106	1264	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	13.24	55	1116	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.66	75	2245	N.D.		
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.73	91	1802	N.D.		
88)	2chlorotolue	13.73	91	1582	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	13.99	105	1191	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.52	105	38251	0.0010	mg/kg#	36
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	15.58	91	1867	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	17.00	180	1004	N.D.		
101)	124Trichlobe	17.81	180	1467	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856717.D Vial: 8
Acq On : 28 Apr 2017 00:04 Operator: RLD-AGK
Sample : 137136,856717, Inst : VMS4
Misc : 6.32g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:50 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	5416	N.D.	
104) 123Trichlben	18.44	180	1363	N.D.	

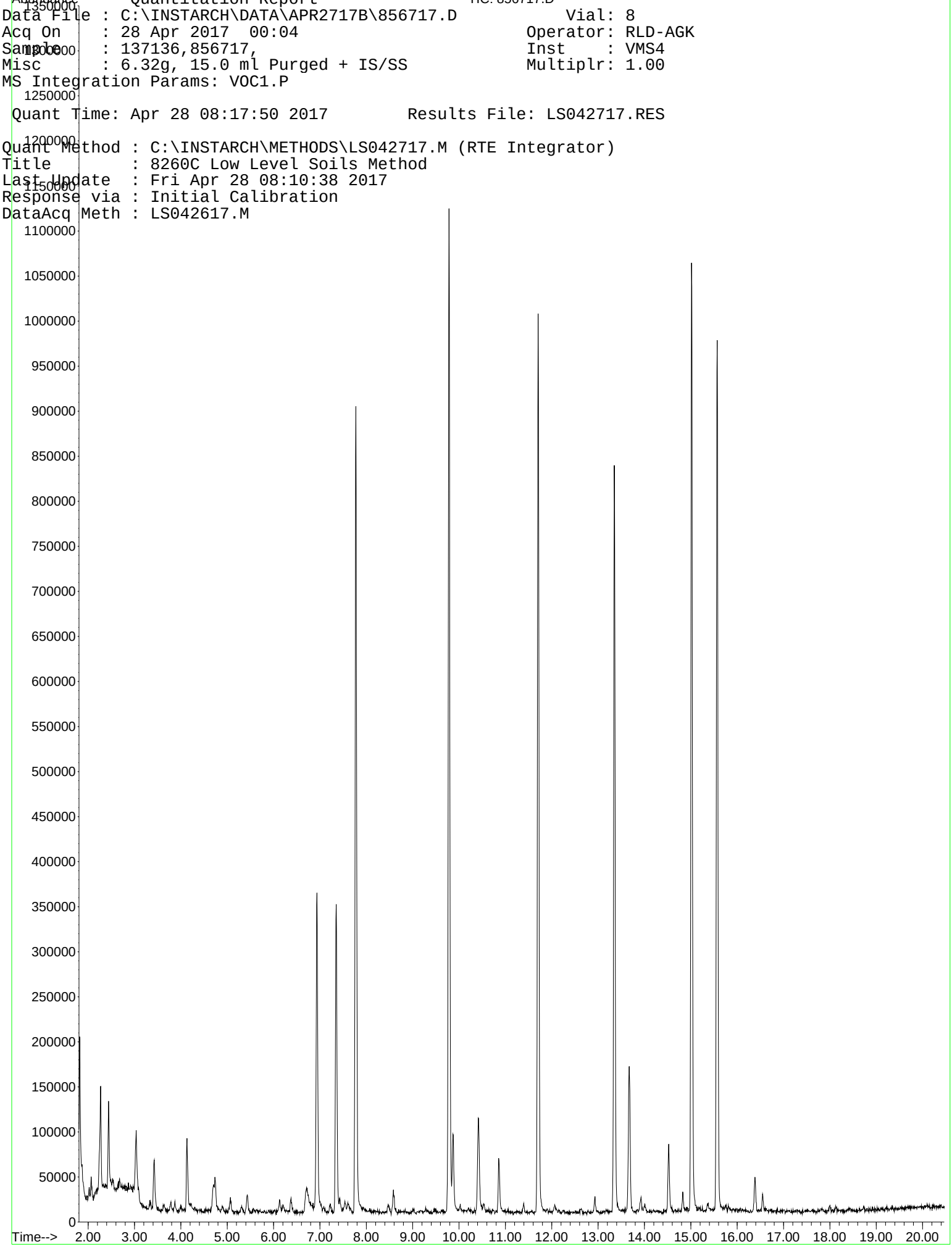
(#) = qualifier out of range (m) = manual integration

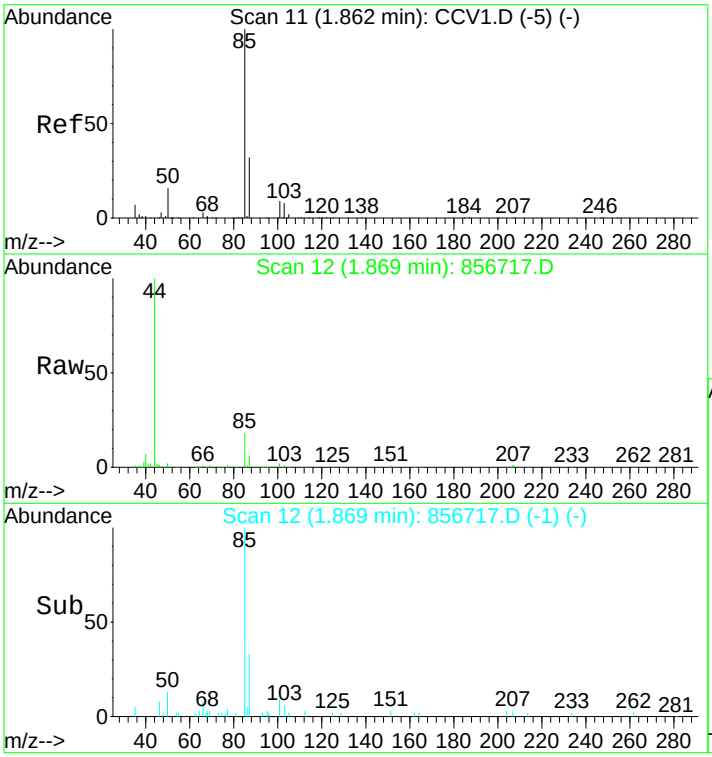
Quantitation Report (TIC: 856717.D)

Data File : C:\INSTARCH\DATA\APR2717B\856717.D Vial: 8
Acq On : 28 Apr 2017 00:04 Operator: RLD-AGK
Sample : 137136,856717, Inst : VMS4
Misc : 6.32g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:17:50 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

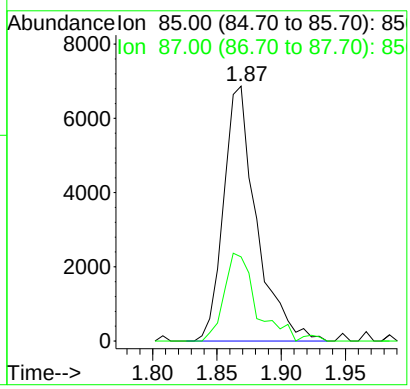


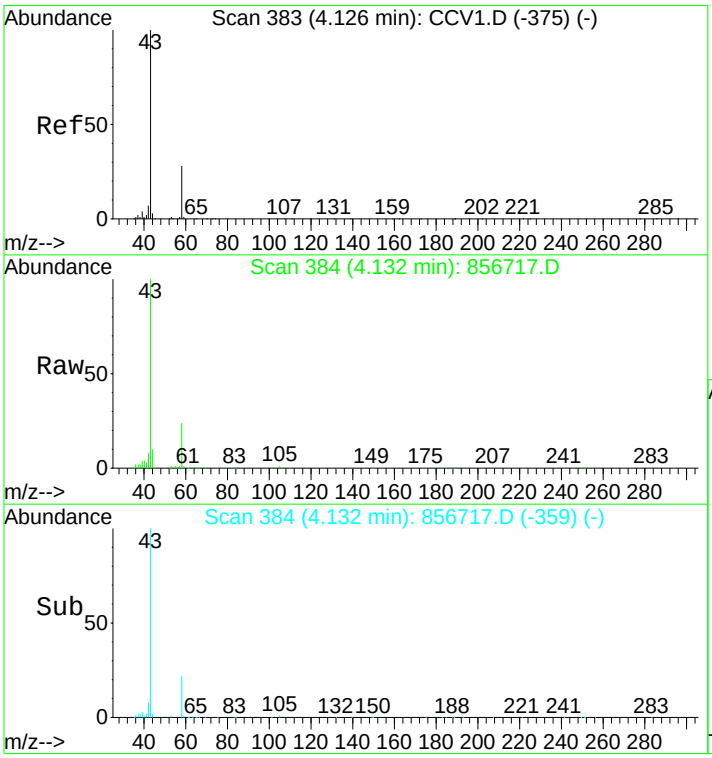


#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.87 min Scan# 12
Delta R.T. 0.00 min
Lab File: 856717.D
Acq: 28 Apr 2017 00:04

Tgt Ion: 85 Resp: 12248

Ion	Ratio	Lower	Upper
85	100		
87	34.2	11.9	51.9

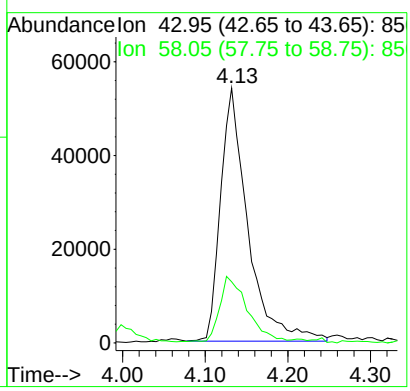


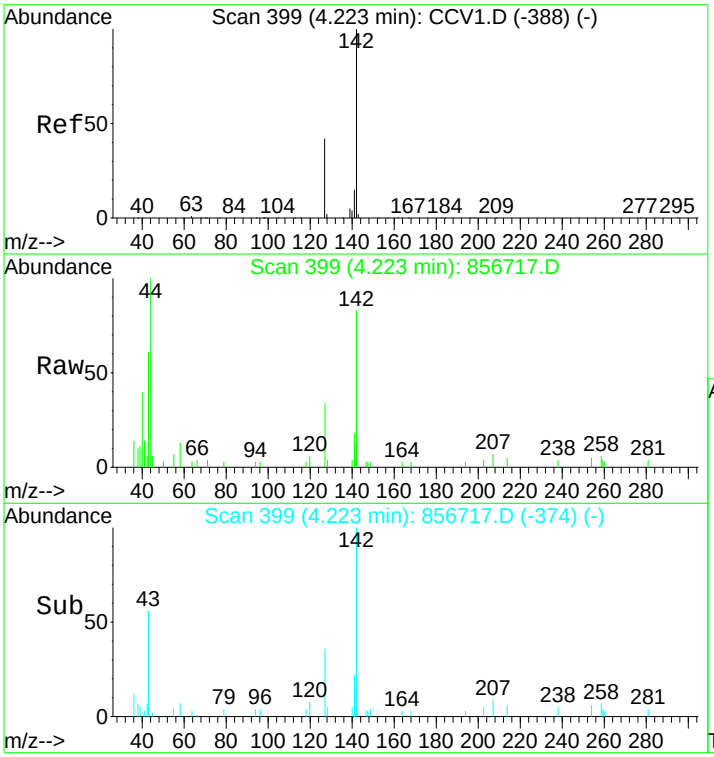


#15
Acetone
Concen: 0.03 mg/kg
RT: 4.13 min Scan# 384
Delta R.T. 0.00 min
Lab File: 856717.D
Acq: 28 Apr 2017 00:04

Tgt Ion: 43 Resp: 123978

Ion	Ratio	Lower	Upper
43	100		
58	27.8	7.4	47.4

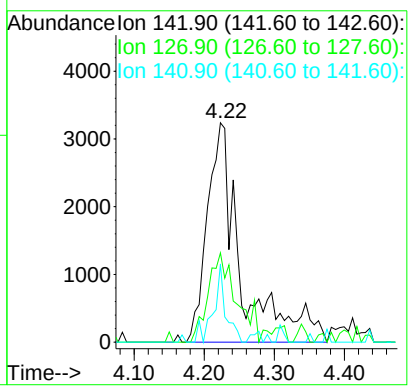


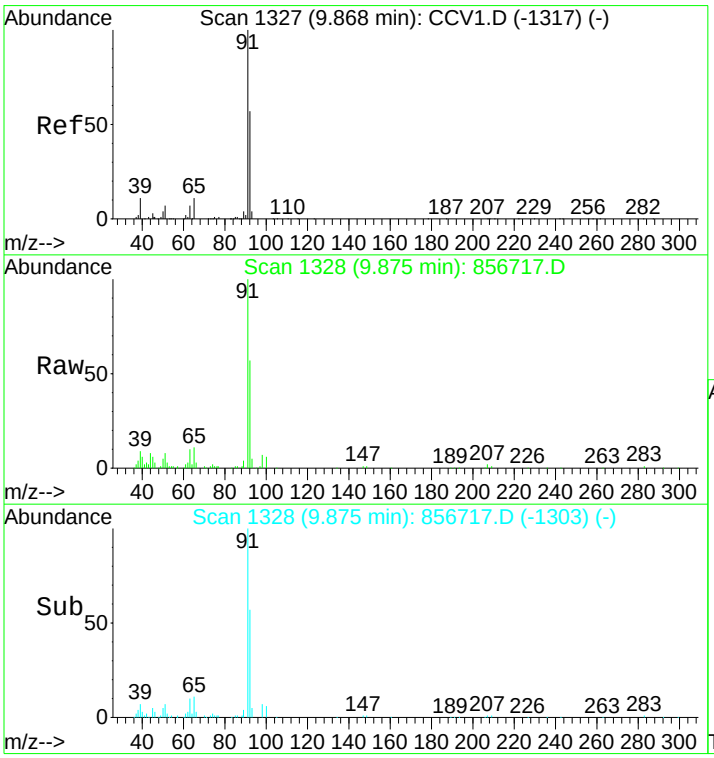


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 399
Delta R.T. 0.00 min
Lab File: 856717.D
Acq: 28 Apr 2017 00:04

Tgt Ion:142 Resp: 10813

Ion	Ratio	Lower	Upper
142	100		
127	35.7	19.8	59.8
141	12.8	0.0	34.5

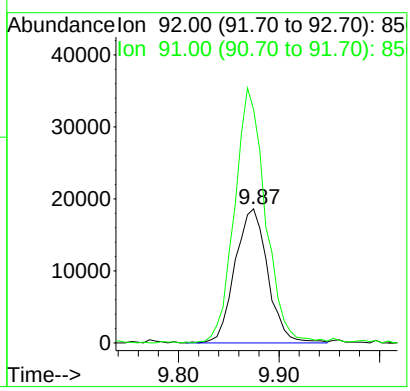


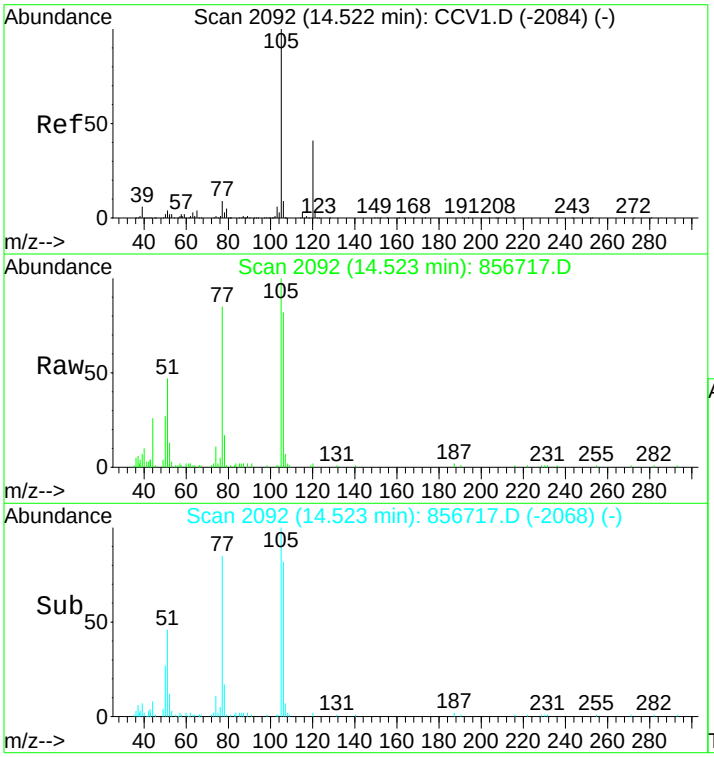


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1328
Delta R.T. 0.00 min
Lab File: 856717.D
Acq: 28 Apr 2017 00:04

Tgt Ion: 92 Resp: 42156

Ion	Ratio	Lower	Upper
92	100		
91	180.6	157.1	197.1

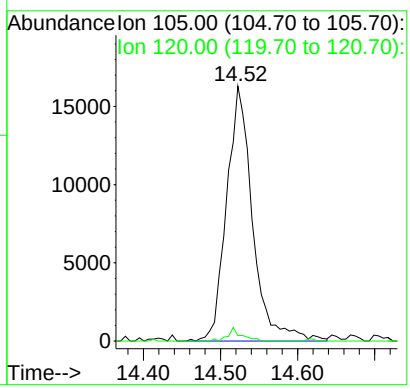




#92
124Trimetben
Concen: 0.00 mg/kg
RT: 14.52 min Scan# 2092
Delta R.T. -0.00 min
Lab File: 856717.D
Acq: 28 Apr 2017 00:04

Tgt Ion:105 Resp: 38251

Ion	Ratio	Lower	Upper
105	100		
120	2.7	24.0	64.0#



[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856718.D Vial: 9
Acq On : 28 Apr 2017 00:33 Operator: RLD-AGK
Sample : 137136,856718, Inst : VMS4
Misc : 6.53g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:05 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	1058708	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	856321	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	465363	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	282169	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	65261	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.78	98	1054668	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	416962	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	14831	0.0012	mg/kg	90
3) Chloromethan	2.12	50	2524	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.78	94	1825	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	3.30	101	2146	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	4.05	101	1073	N.D.		
15) Acetone	4.14	43	52294	0.0119	mg/kg	97
16) Iodomethane	4.22	142	5248	0.0004	mg/kg#	85
17) Carbon Dislf	4.30	76	3281	N.D.		
18) allylchloride	4.55	41	5736	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	13186	Below	Cal	92
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.92	59	5314	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	5044	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.72	43	1228	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	6.38	72	1075	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	6.70	42	6938	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856718.D Vial: 9
Acq On : 28 Apr 2017 00:33 Operator: RLD-AGK
Sample : 137136,856718, Inst : VMS4
Misc : 6.53g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:05 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.43	78	6096	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	9.18	43	1254	0.0107	mg/kg#	64
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.63	43	2421	N.D.		
61)	Toluene	9.87	92	27975	0.0010	mg/kg	92
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	10.74	43	2982	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	11.69	91	2177	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.89	91	2110	N.D.		
75)	m p-Xylene	12.06	106	2600	N.D.		
76)	o-Xylene	12.61	106	1003	N.D.		
77)	Styrene	0.00	104	0	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	13.13	105	1011	N.D.		
81)	cyclohexanone	13.25	55	1182	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.66	75	2705	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	13.99	91	1144	N.D.		
90)	135Trimebenz	13.98	105	1145	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.53	105	8306	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	15.57	91	2111	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	17.00	180	1055	N.D.		
101)	124Trichlobe	17.82	180	1185	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856718.D Vial: 9
Acq On : 28 Apr 2017 00:33 Operator: RLD-AGK
Sample : 137136,856718, Inst : VMS4
Misc : 6.53g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:05 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	4502	N.D.	
104) 123Trichlben	18.42	180	1906	N.D.	

(#) = qualifier out of range (m) = manual integration

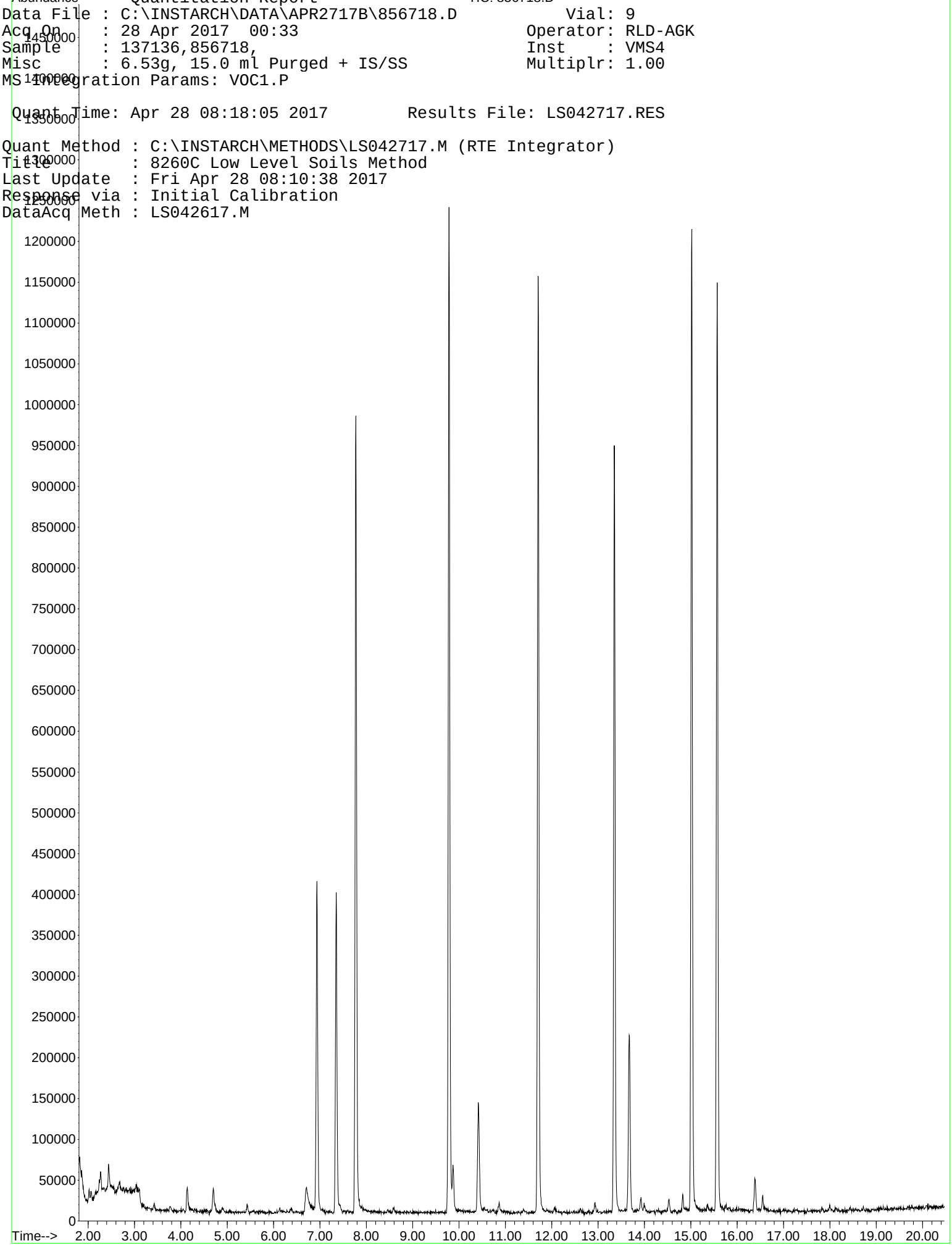
Quantitation Report

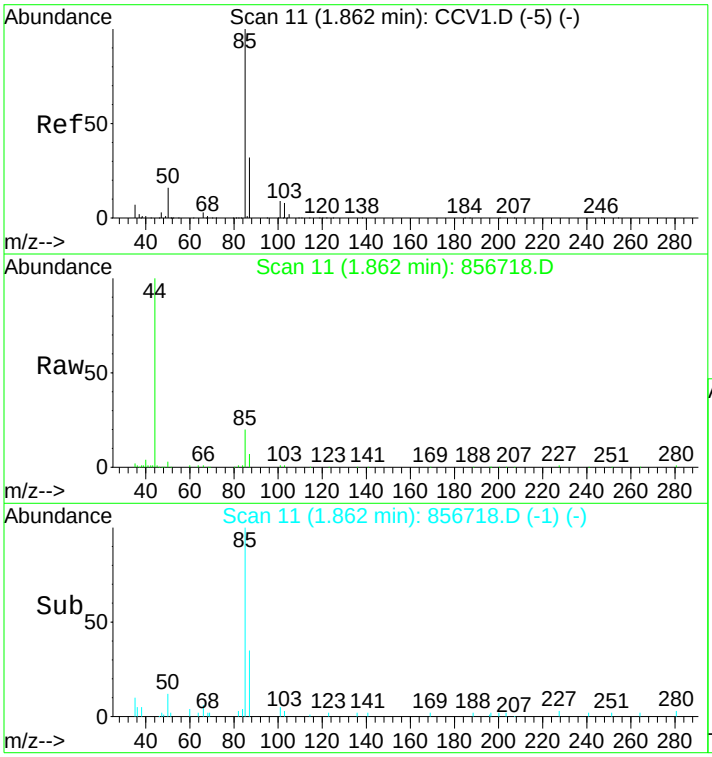
TIC: 856718.D

Data File : C:\INSTARCH\DATA\APR2717B\856718.D Vial: 9
Acq On : 28 Apr 2017 00:33 Operator: RLD-AGK
Sample : 137136,856718, Inst : VMS4
Misc : 6.53g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:05 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

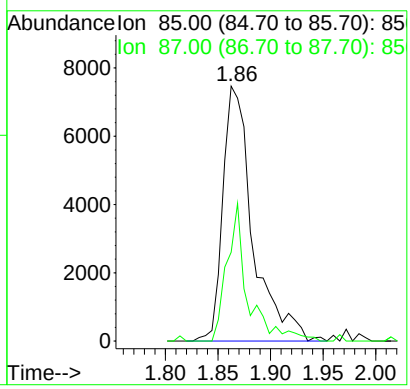


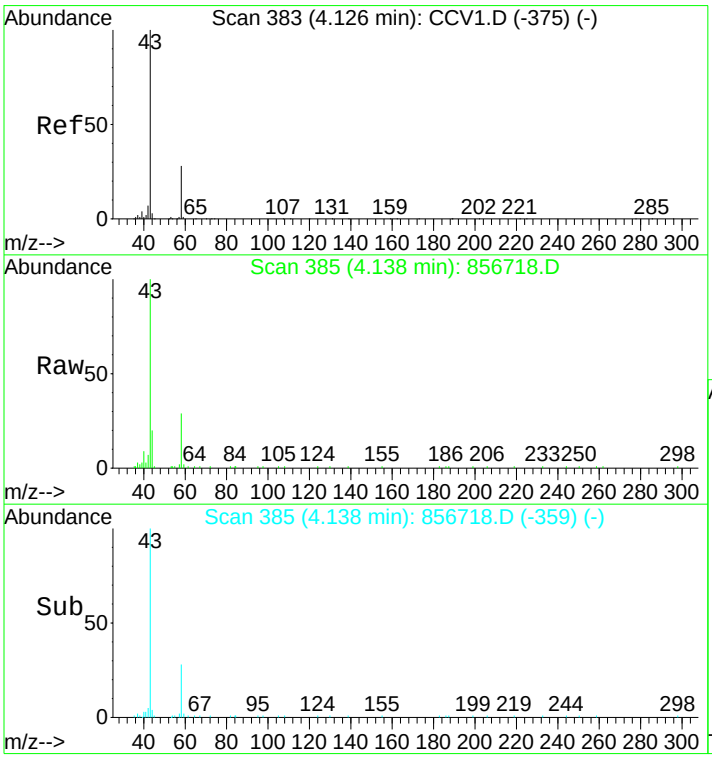


#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.86 min Scan# 11
Delta R.T. -0.00 min
Lab File: 856718.D
Acq: 28 Apr 2017 00:33

Tgt Ion: 85 Resp: 14831

Ion	Ratio	Lower	Upper
85	100		
87	37.6	11.9	51.9

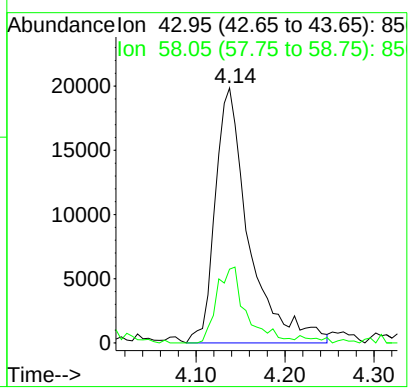


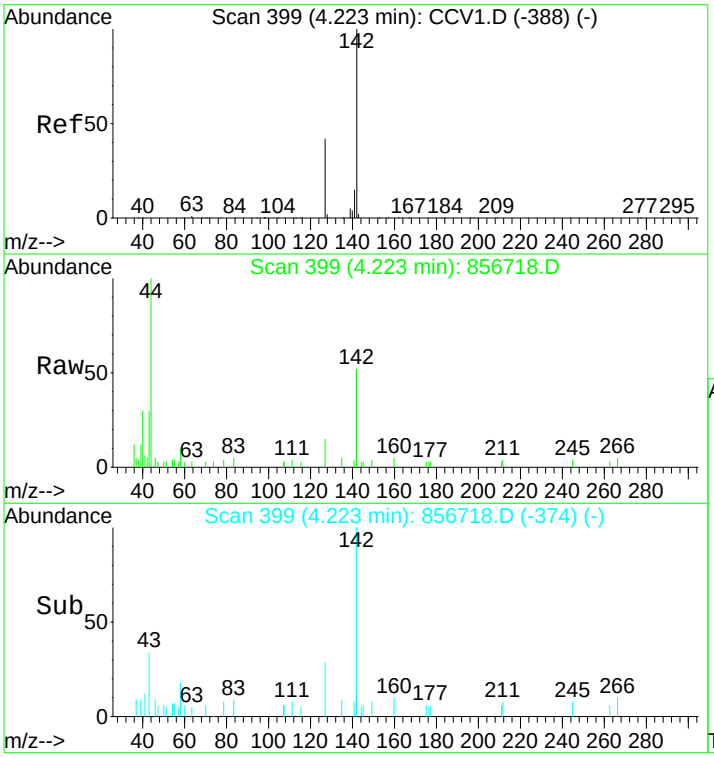


#15
Acetone
Concen: 0.01 mg/kg
RT: 4.14 min Scan# 385
Delta R.T. 0.01 min
Lab File: 856718.D
Acq: 28 Apr 2017 00:33

Tgt Ion: 43 Resp: 52294

Ion	Ratio	Lower	Upper
43	100		
58	25.9	7.4	47.4

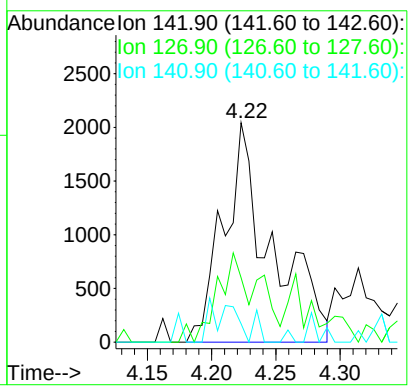


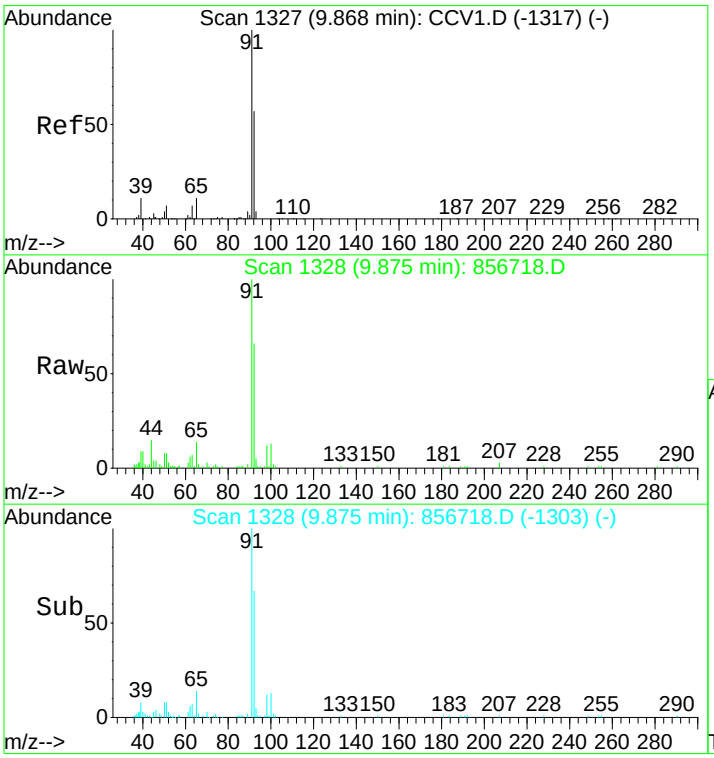


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 399
Delta R.T. 0.00 min
Lab File: 856718.D
Acq: 28 Apr 2017 00:33

Tgt Ion:142 Resp: 5248

Ion	Ratio	Lower	Upper
142	100		
127	34.9	19.8	59.8
141	0.0	0.0	34.5

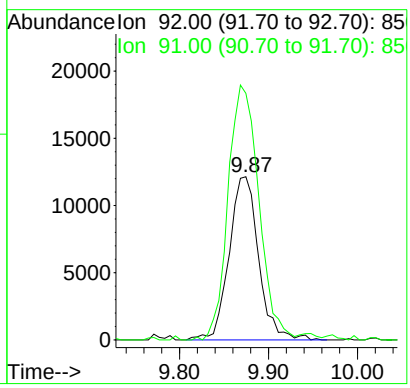




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1328
Delta R.T. 0.00 min
Lab File: 856718.D
Acq: 28 Apr 2017 00:33

Tgt Ion: 92 Resp: 27975

Ion	Ratio	Lower	Upper
92	100		
91	166.6	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856719.D Vial: 10
Acq On : 28 Apr 2017 1:02 Operator: RLD-AGK
Sample : 137136,856719, Inst : VMS4
Misc : 6.48g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	1053222	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	840995	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	449248	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	278485	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	63775	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	1051551	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	395918	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	14428	0.0012	mg/kg	97
3) Chloromethan	2.12	50	2873	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	1433	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	3.75	67	1464	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	4.13	43	126316	0.0288	mg/kg	100
16) Iodomethane	4.23	142	5151	0.0004	mg/kg#	84
17) Carbon Dislf	4.30	76	2747	N.D.		
18) allylchloride	4.52	41	6188	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	15414	Below	Cal	92
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	5173	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	5159	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.71	43	1057	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	6.38	72	1895	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	6.71	42	5288	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856719.D Vial: 10
Acq On : 28 Apr 2017 1:02 Operator: RLD-AGK
Sample : 137136,856719, Inst : VMS4
Misc : 6.48g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.03	56	1636	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.42	78	9936	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	8.48	83	1304	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	9.16	43	1922	0.0109	mg/kg#	15
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.61	43	1902	N.D.		
61)	Toluene	9.87	92	23605	0.0009	mg/kg	99
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	10.74	43	1250	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	11.71	91	2543	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.90	91	2089	N.D.		
75)	m p-Xylene	12.06	106	3053	N.D.		
76)	o-Xylene	12.61	106	1201	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	13.23	55	1043	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.67	75	2678	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	14.01	105	1019	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.53	105	7529	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	14.98	119	1356	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.57	91	2322	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	17.81	180	1379	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856719.D Vial: 10
Acq On : 28 Apr 2017 1:02 Operator: RLD-AGK
Sample : 137136,856719, Inst : VMS4
Misc : 6.48g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.12	128	5335	N.D.	
104) 123Trichlben	18.45	180	1281	N.D.	

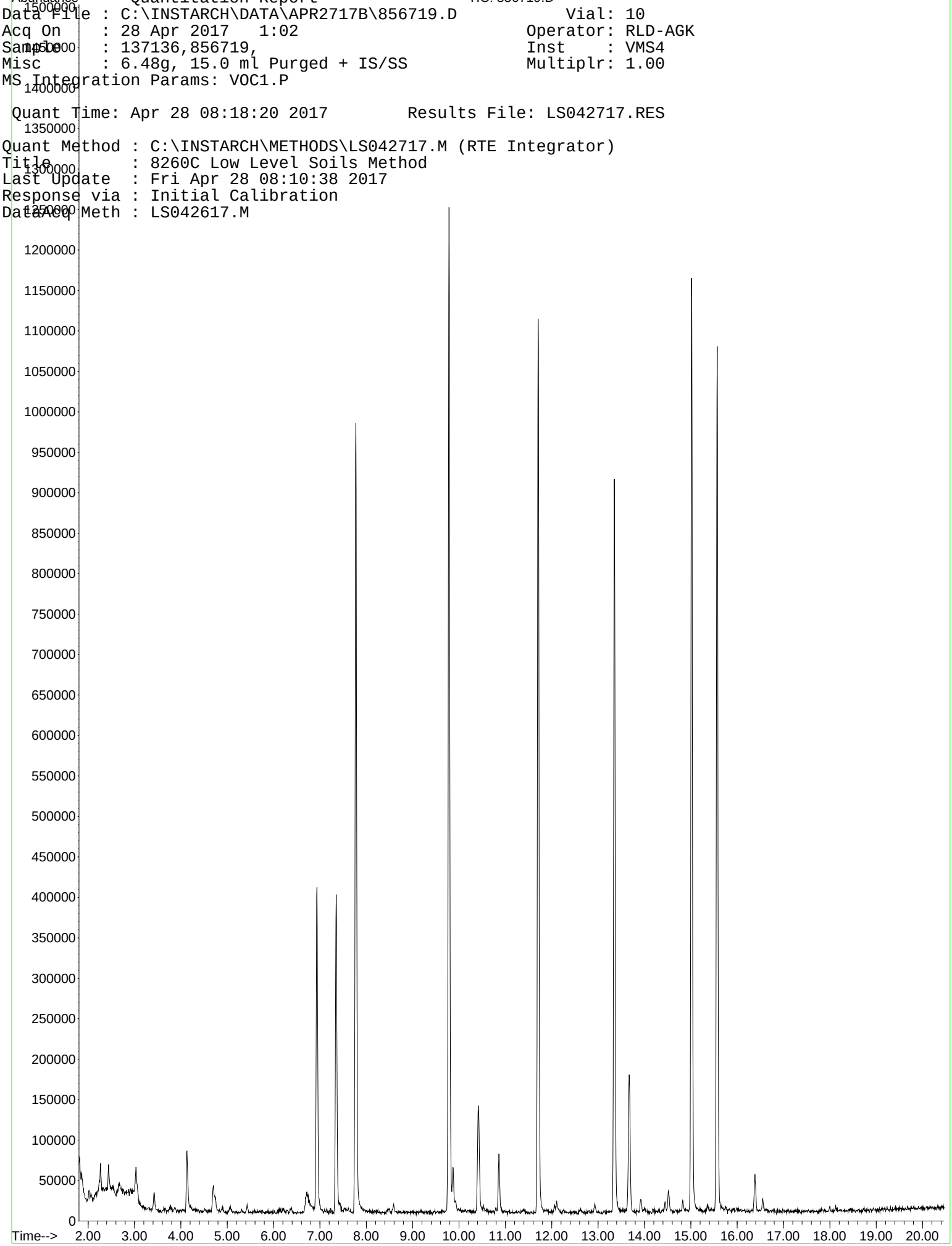
(#) = qualifier out of range (m) = manual integration

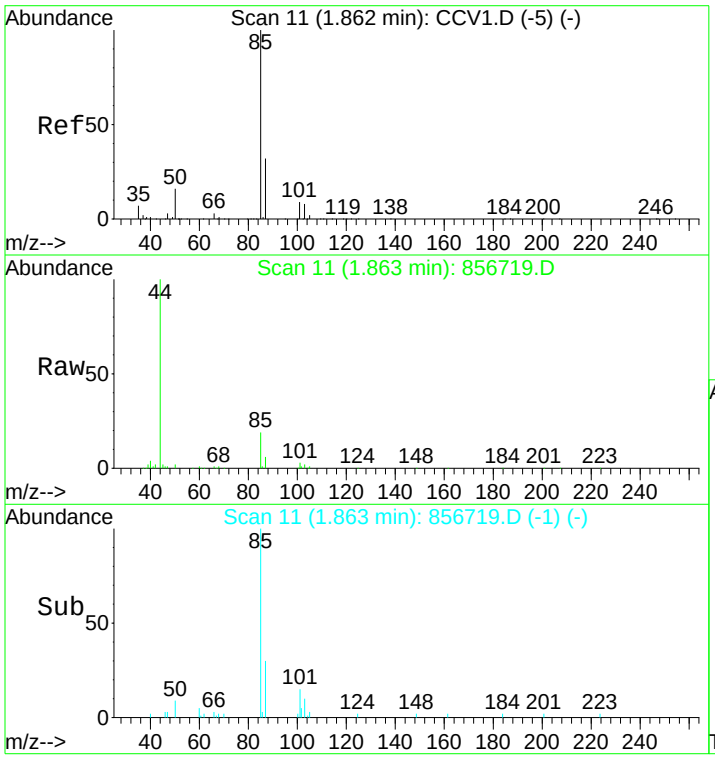
Quantitation Report (TIC: 856719.D)

Data File : C:\INSTARCH\DATA\APR2717B\856719.D Vial: 10
Acq On : 28 Apr 2017 1:02 Operator: RLD-AGK
Sample : 137136,856719, Inst : VMS4
Misc : 6.48g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

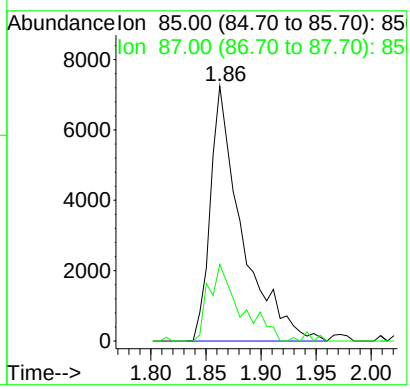


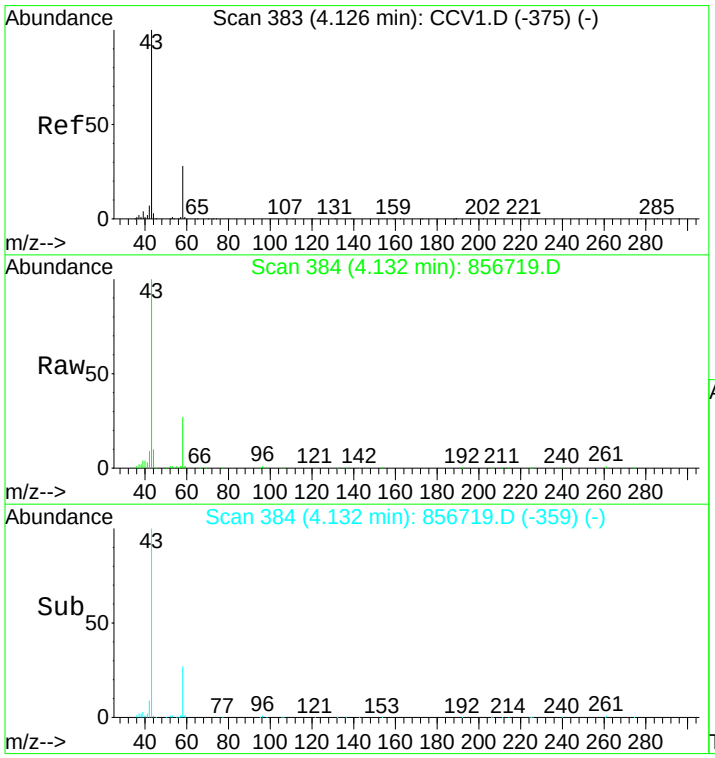


#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.86 min Scan# 11
Delta R.T. -0.00 min
Lab File: 856719.D
Acq: 28 Apr 2017 1:02

Tgt Ion: 85 Resp: 14428

Ion	Ratio	Lower	Upper
85	100		
87	30.1	11.9	51.9

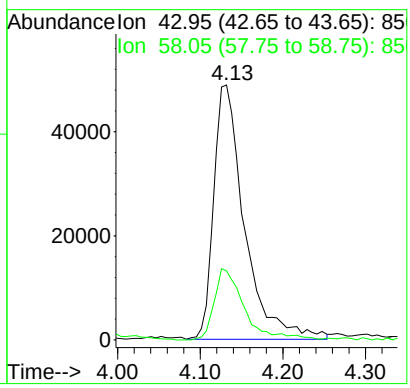


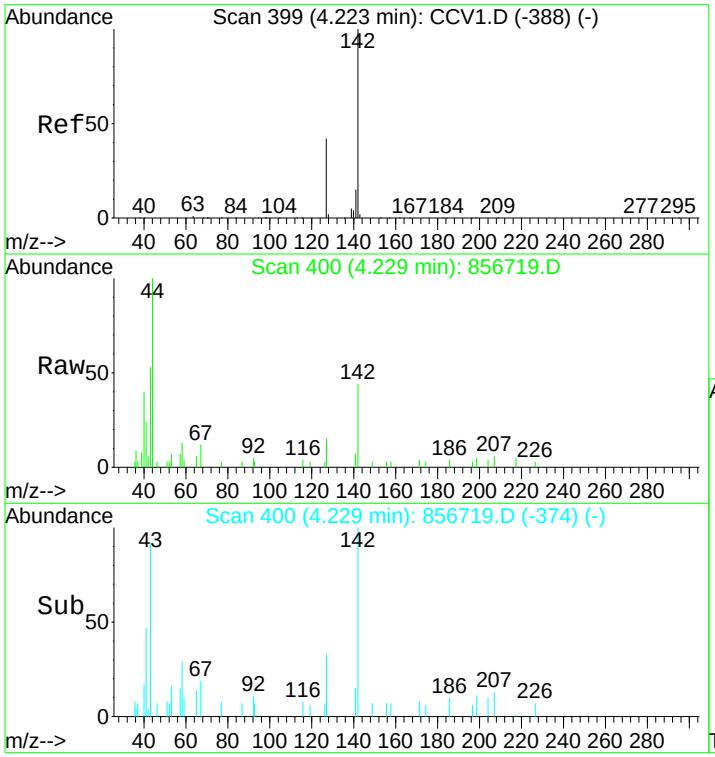


#15
Acetone
Concen: 0.03 mg/kg
RT: 4.13 min Scan# 384
Delta R.T. 0.00 min
Lab File: 856719.D
Acq: 28 Apr 2017 1:02

Tgt Ion: 43 Resp: 126316

Ion	Ratio	Lower	Upper
43	100		
58	27.3	7.4	47.4

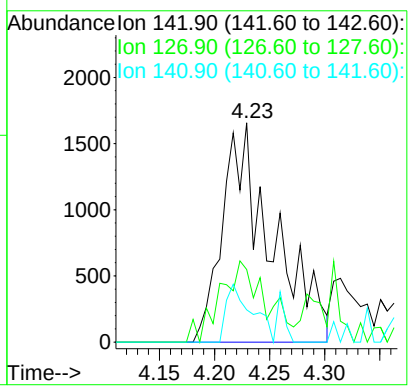


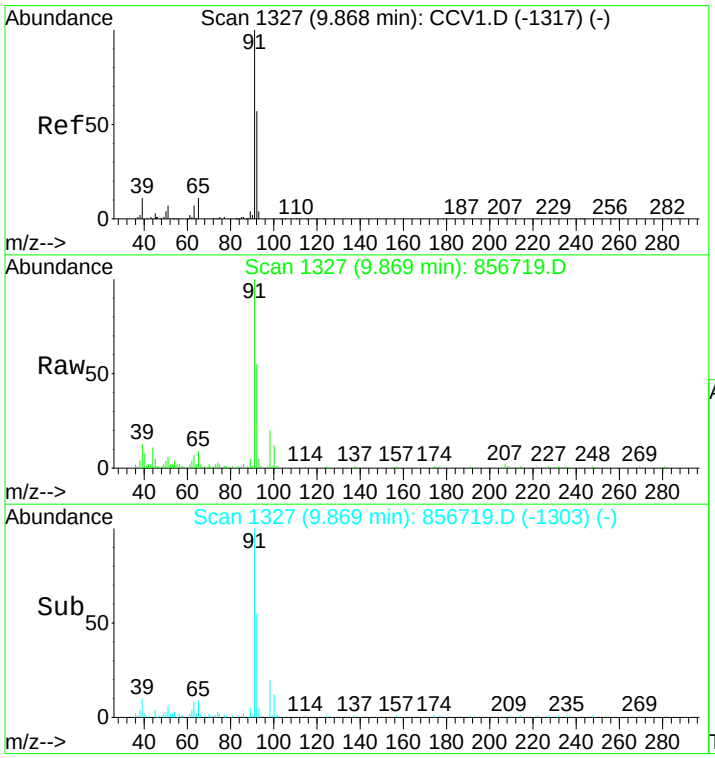


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.23 min Scan# 400
Delta R.T. 0.01 min
Lab File: 856719.D
Acq: 28 Apr 2017 1:02

Tgt Ion:142 Resp: 5151

Ion	Ratio	Lower	Upper
142	100		
127	34.4	19.8	59.8
141	0.0	0.0	34.5

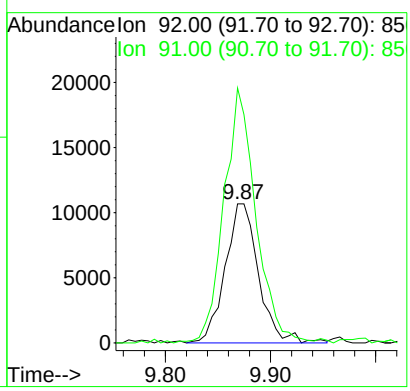




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 856719.D
Acq: 28 Apr 2017 1:02

Tgt Ion: 92 Resp: 23605

Ion	Ratio	Lower	Upper
92	100		
91	175.8	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856720.D Vial: 11
Acq On : 28 Apr 2017 1:31 Operator: RLD-AGK
Sample : 137136,856720, Inst : VMS4
Misc : 6.40g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:43 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	1035380	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	830869	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	455504	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	268419	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	61046	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	1030159	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	391309	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	9599	N.D.		
3) Chloromethan	2.12	50	2742	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	2683	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.13	43	152131	0.0353	mg/kg	99
16) Iodomethane	4.22	142	9509	0.0007	mg/kg#	78
17) Carbon Dislf	4.30	76	2292	N.D.		
18) allylchloride	4.54	41	3937	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	13174	Below	Cal	93
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	5867	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	2644	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.64	43	1405	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	6.37	72	6683	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	6.72	42	5747	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856720.D Vial: 11
Acq On : 28 Apr 2017 1:31 Operator: RLD-AGK
Sample : 137136,856720, Inst : VMS4
Misc : 6.40g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:43 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.44	78	8368	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	9.10	43	1506	0.0108 mg/kg#	15
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.64	43	1160	N.D.	
61)	Toluene	9.87	92	20144	0.0007 mg/kg	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	10.74	43	2617	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	11.73	91	1942	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.90	91	1106	N.D.	
75)	m p-Xylene	12.06	106	1484	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	13.18	55	1261	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	1703	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	13.98	105	1308	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.52	105	43020	0.0010 mg/kg#	32
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	15.03	146	1122	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.56	91	2273	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	17.83	180	1302	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856720.D Vial: 11
Acq On : 28 Apr 2017 1:31 Operator: RLD-AGK
Sample : 137136,856720, Inst : VMS4
Misc : 6.40g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:43 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

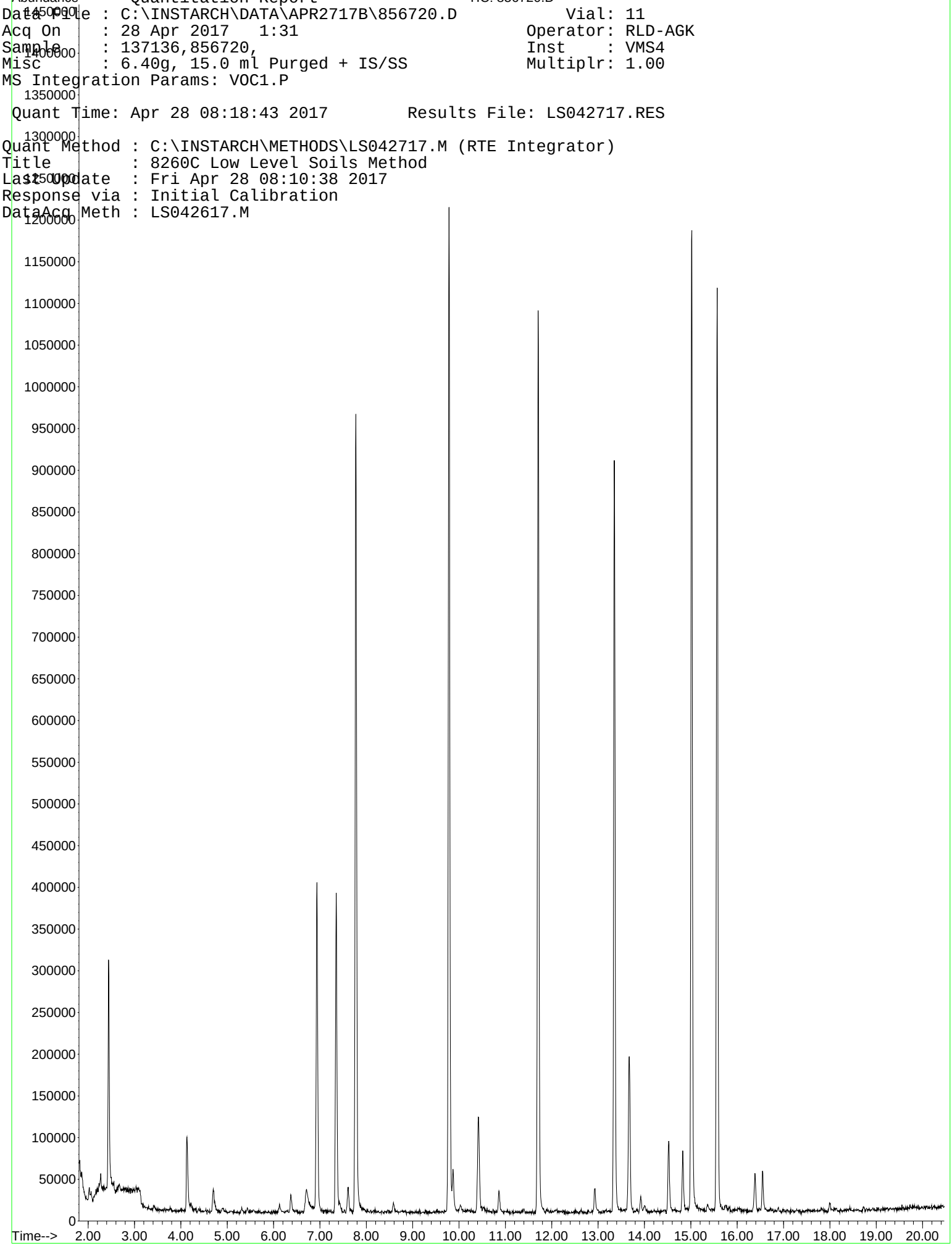
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	3645	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

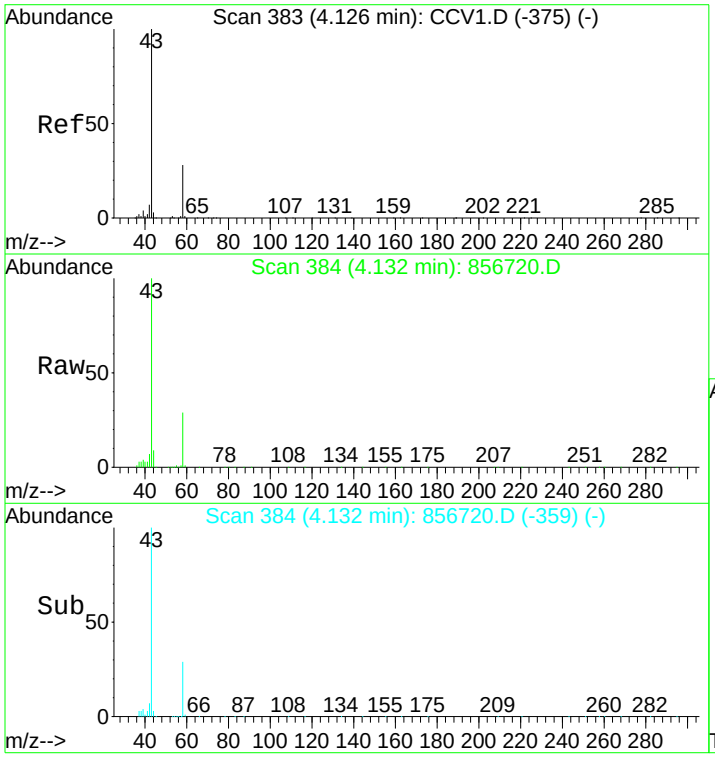
(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\APR2717B\856720.D Vial: 11
Acq On : 28 Apr 2017 1:31 Operator: RLD-AGK
Sample : 137136,856720, Inst : VMS4
Misc : 6.40g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:43 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

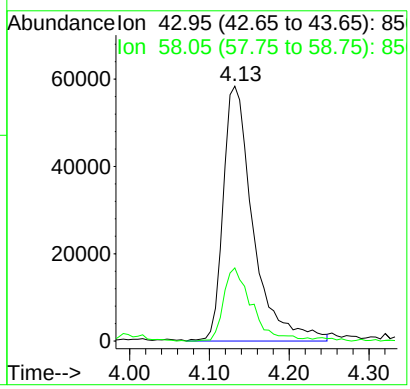


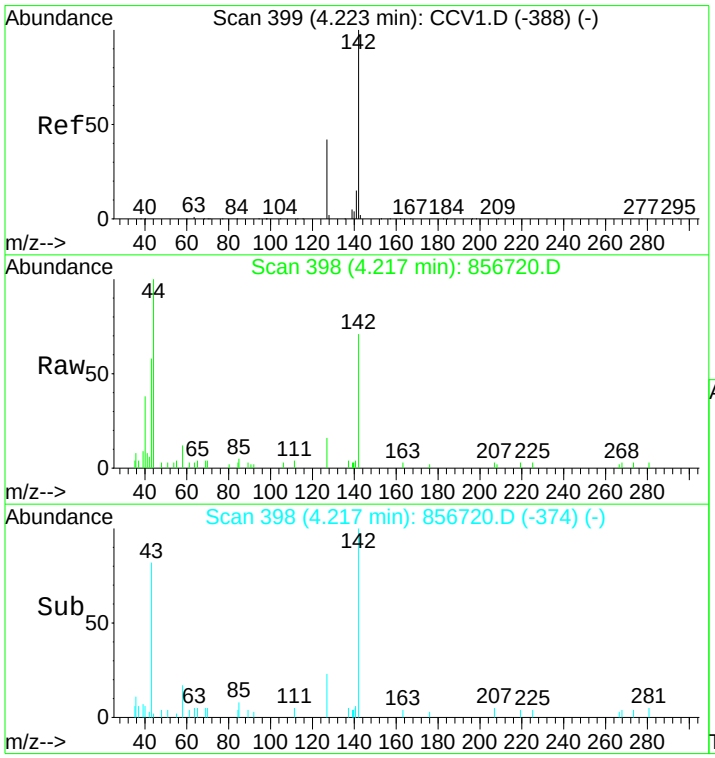


#15
Acetone
Concen: 0.04 mg/kg
RT: 4.13 min Scan# 384
Delta R.T. 0.00 min
Lab File: 856720.D
Acq: 28 Apr 2017 1:31

Tgt Ion: 43 Resp: 152131

Ion	Ratio	Lower	Upper
43	100		
58	27.9	7.4	47.4

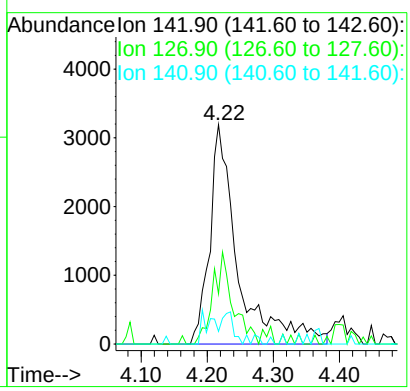


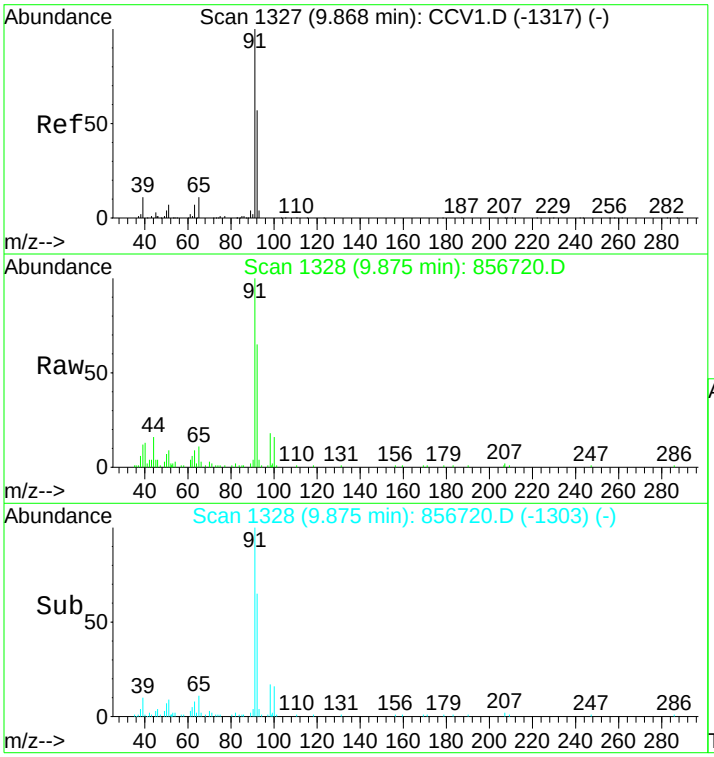


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 398
Delta R.T. -0.00 min
Lab File: 856720.D
Acq: 28 Apr 2017 1:31

Tgt Ion:142 Resp: 9509

Ion	Ratio	Lower	Upper
142	100		
127	29.4	19.8	59.8
141	0.0	0.0	34.5

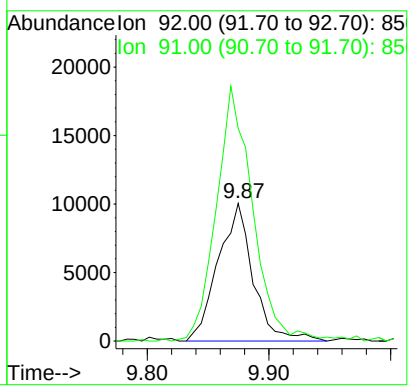


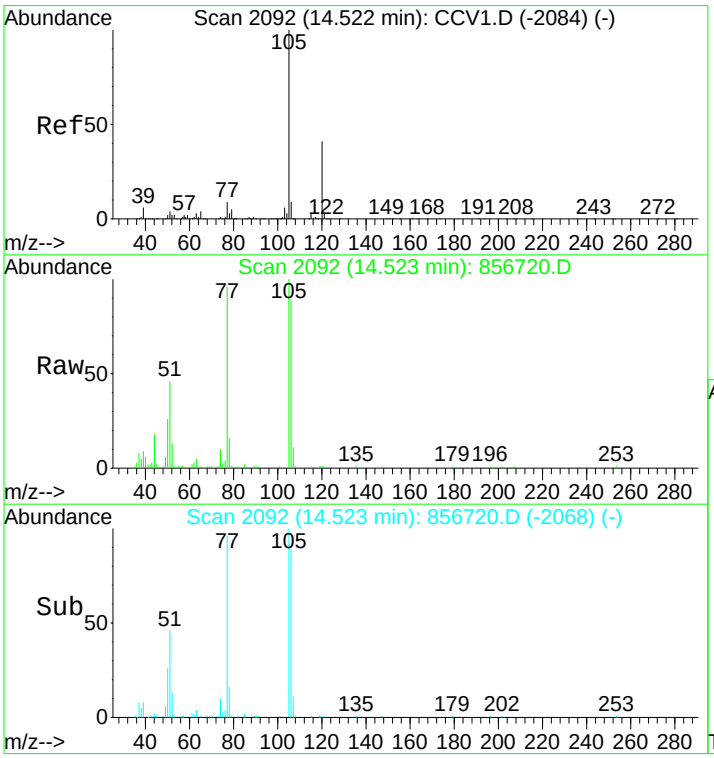


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1328
Delta R.T. 0.00 min
Lab File: 856720.D
Acq: 28 Apr 2017 1:31

Tgt Ion: 92 Resp: 20144

Ion	Ratio	Lower	Upper
92	100		
91	194.2	157.1	197.1

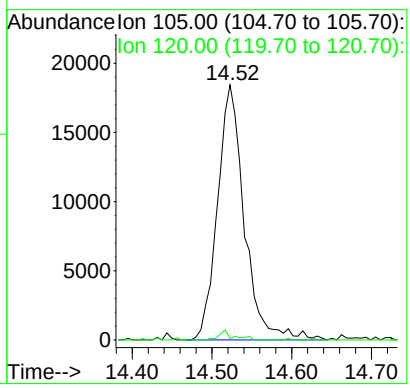




#92
124Trimetben
Concen: 0.00 mg/kg
RT: 14.52 min Scan# 2092
Delta R.T. -0.00 min
Lab File: 856720.D
Acq: 28 Apr 2017 1:31

Tgt Ion:105 Resp: 43020

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.0	64.0#



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856721.D Vial: 12
Acq On : 28 Apr 2017 2:00 Operator: RLD-AGK
Sample : 137136,856721, Inst : VMS4
Misc : 5.37g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:59 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	999704	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	794615	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	416937	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	260839	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.34	102	60008	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	992541	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	372590	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	9936	N.D.		
3) Chloromethan	2.12	50	2921	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	1080	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.13	43	280200	0.0673	mg/kg	98
16) Iodomethane	4.23	142	6098	0.0004	mg/kg#	87
17) Carbon Dislf	4.30	76	4406	N.D.		
18) allylchloride	4.54	41	5553	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	13952	Below	Cal	96
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	6241	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	5899	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.63	43	1213	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	6.36	72	8079	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	6.71	42	4422	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856721.D Vial: 12
Acq On : 28 Apr 2017 2:00 Operator: RLD-AGK
Sample : 137136,856721, Inst : VMS4
Misc : 5.37g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:59 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.01	56	1530	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.43	78	10415	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	9.63	43	2183	N.D.		
61)	Toluene	9.87	92	16426	0.0006	mg/kg	87
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	10.74	43	4023	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	11.72	91	1518	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.91	91	2204	N.D.		
75)	m p-Xylene	12.07	106	1626	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	0.00	55	0	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.68	75	2002	N.D.		
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.72	91	1077	N.D.		
88)	2chlorotolue	13.72	91	1009	N.D.		
89)	4chlorotolue	0.00	91	0	N.D.		
90)	135Trimebenz	13.87	105	1341	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.52	105	37186	0.0009	mg/kg#	32
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	15.59	91	1582	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	17.82	180	1452	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856721.D Vial: 12
Acq On : 28 Apr 2017 2:00 Operator: RLD-AGK
Sample : 137136,856721, Inst : VMS4
Misc : 5.37g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:59 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	4343	N.D.	
104) 123Trichlben	18.45	180	1077	N.D.	

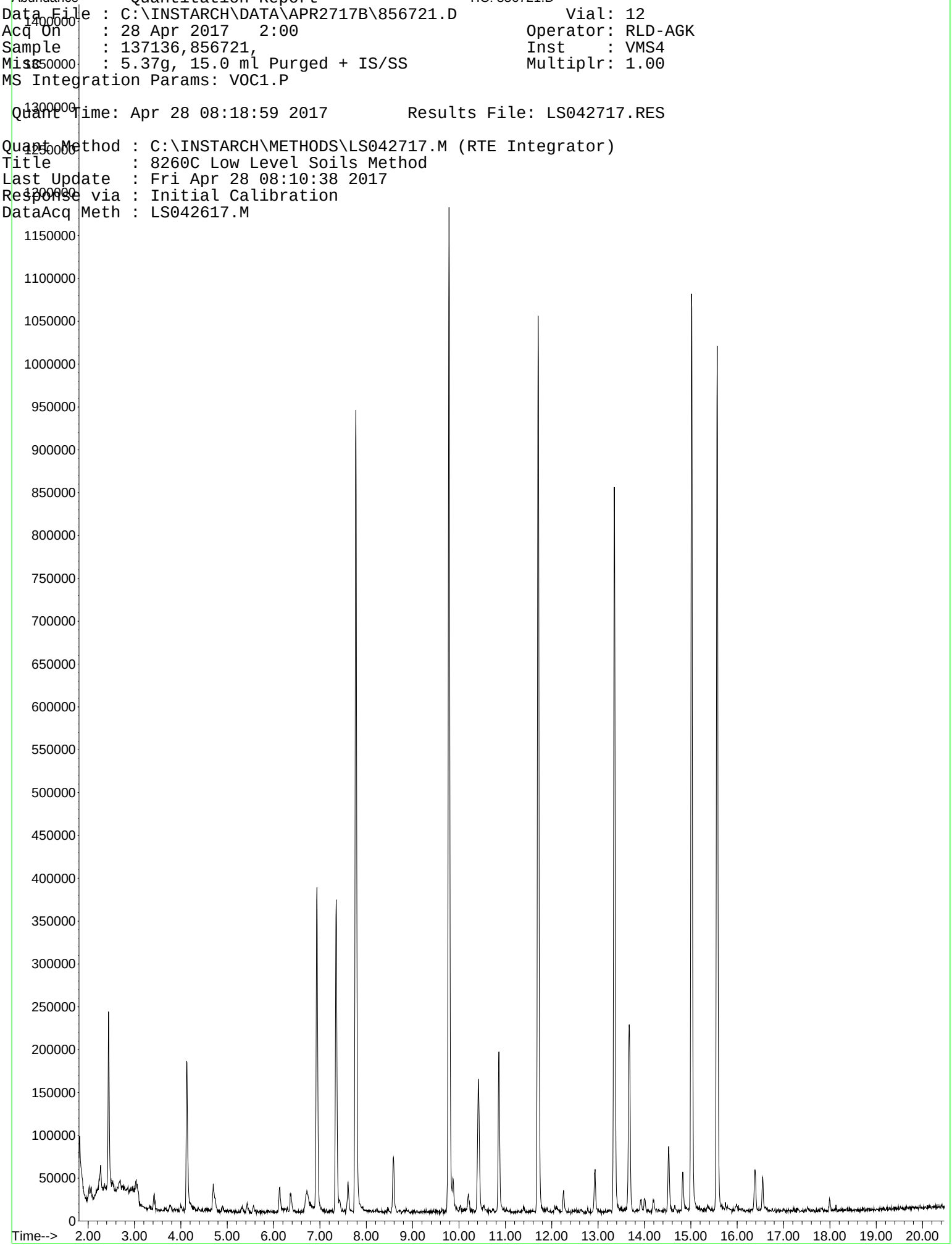
(#) = qualifier out of range (m) = manual integration

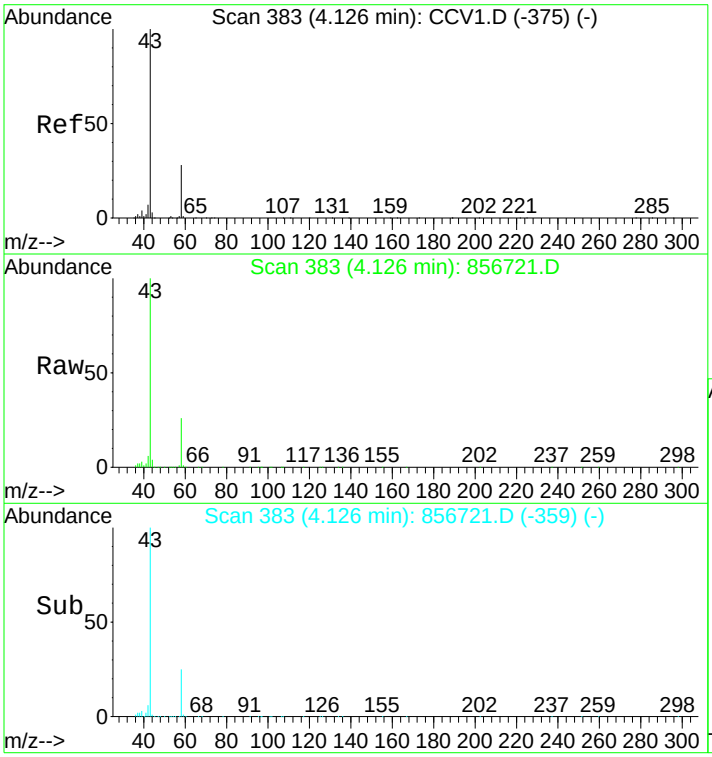
Abundance Quantitation Report TIC: 856721.D

Data File : C:\INSTARCH\DATA\APR2717B\856721.D Vial: 12
Acq On : 28 Apr 2017 2:00 Operator: RLD-AGK
Sample : 137136,856721, Inst : VMS4
Misc : 5.37g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:18:59 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

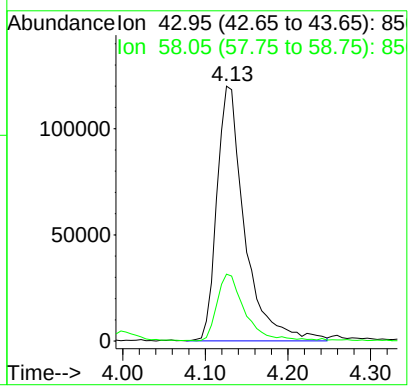


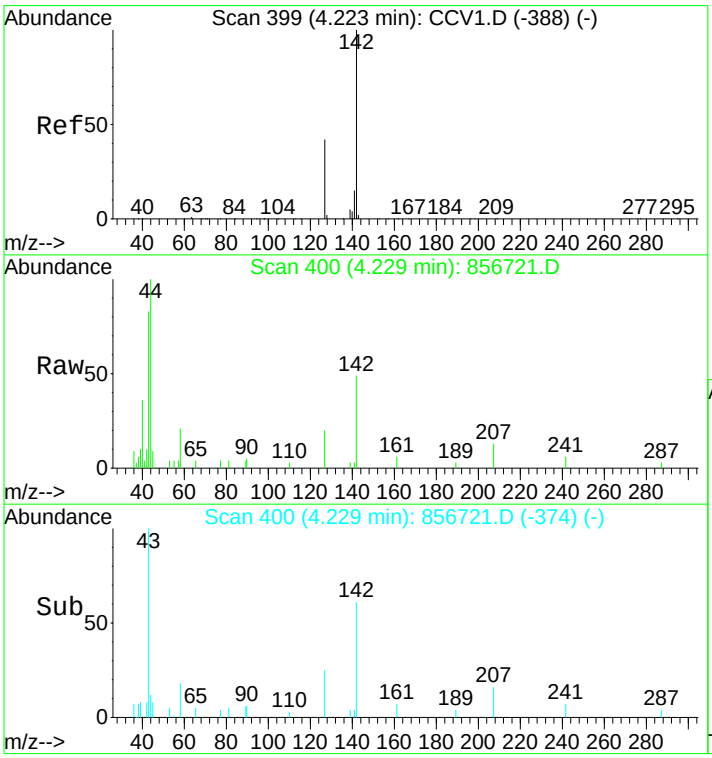


#15
Acetone
Concen: 0.07 mg/kg
RT: 4.13 min Scan# 383
Delta R.T. -0.00 min
Lab File: 856721.D
Acq: 28 Apr 2017 2:00

Tgt Ion: 43 Resp: 280200

Ion	Ratio	Lower	Upper
43	100		
58	26.3	7.4	47.4

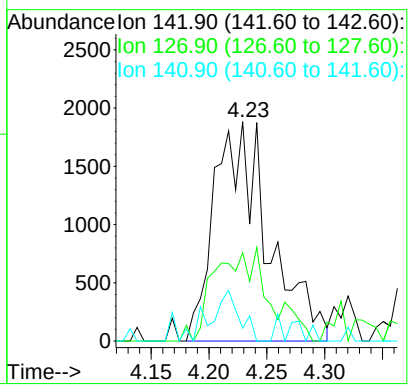


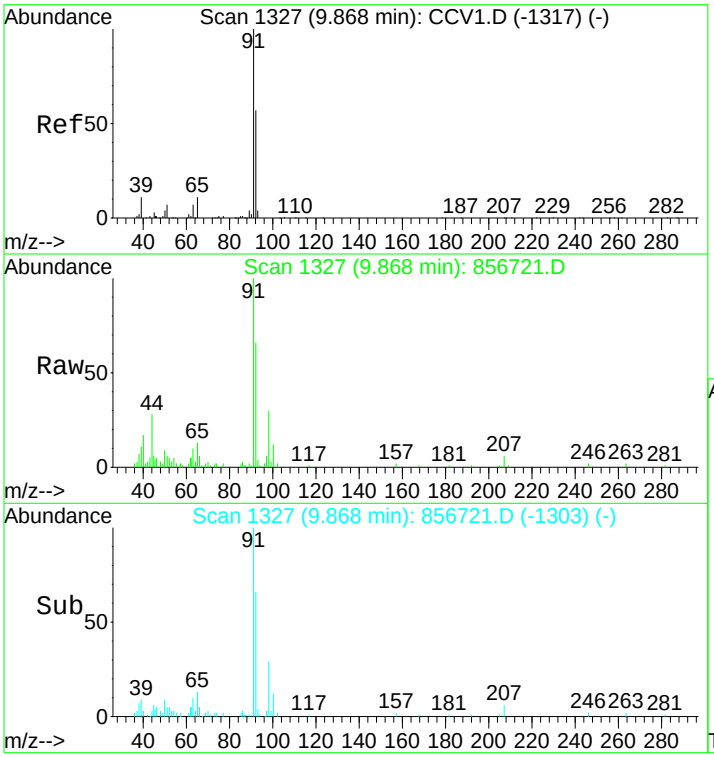


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.23 min Scan# 400
Delta R.T. 0.01 min
Lab File: 856721.D
Acq: 28 Apr 2017 2:00

Tgt Ion:142 Resp: 6098

Ion	Ratio	Lower	Upper
142	100		
127	43.0	19.8	59.8
141	0.0	0.0	34.5

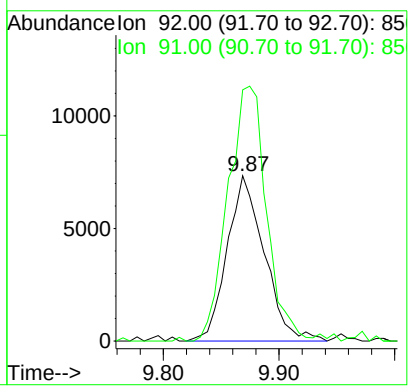


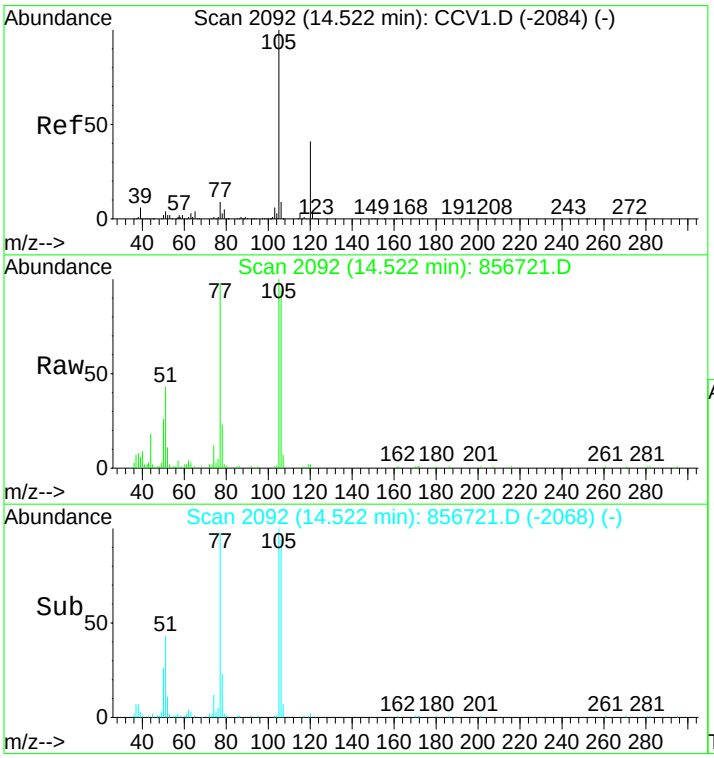


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 856721.D
Acq: 28 Apr 2017 2:00

Tgt Ion: 92 Resp: 16426

Ion	Ratio	Lower	Upper
92	100		
91	159.3	157.1	197.1

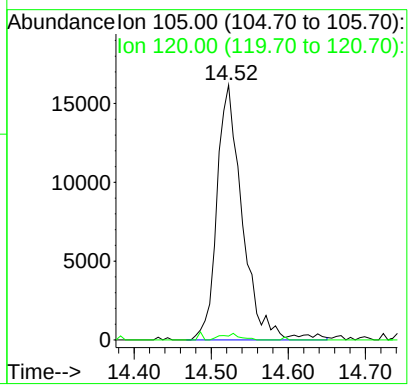




#92
124Trimetben
Concen: 0.00 mg/kg
RT: 14.52 min Scan# 2092
Delta R.T. -0.00 min
Lab File: 856721.D
Acq: 28 Apr 2017 2:00

Tgt Ion:105 Resp: 37186

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.0	64.0#



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856722.D Vial: 13
Acq On : 28 Apr 2017 2:29 Operator: RLD-AGK
Sample : 137136,856722, Inst : VMS4
Misc : 6.03g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:12 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	1031092	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	842701	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	451860	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	274279	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	63388	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	1044515	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	403390	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	8062	N.D.		
3) Chloromethan	2.11	50	4089	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	3175	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.13	43	130547	0.0304	mg/kg	99
16) Iodomethane	4.22	142	9577	0.0007	mg/kg	94
17) Carbon Dislf	4.31	76	3463	N.D.		
18) allylchloride	4.53	41	4189	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	15553	Below	Cal	96
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	7173	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	3134	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.68	43	1242	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	6.39	72	4765	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	6.71	42	6400	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856722.D Vial: 13
Acq On : 28 Apr 2017 2:29 Operator: RLD-AGK
Sample : 137136,856722, Inst : VMS4
Misc : 6.03g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:12 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.42	78	12416	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	9.19	43	2095	0.0110 mg/kg#	15
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.63	43	1532	N.D.	
61)	Toluene	9.87	92	32914	0.0012 mg/kg	87
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	10.73	43	2440	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	11.71	91	2489	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.91	91	1232	N.D.	
75)	m p-Xylene	12.07	106	1407	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	13.34	55	1395	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.66	75	1525	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.73	91	1066	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	14.52	105	33372	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	15.05	146	1089	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.56	91	1451	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\APR2717B\856722.D Vial: 13
Acq On : 28 Apr 2017 2:29 Operator: RLD-AGK
Sample : 137136,856722, Inst : VMS4
Misc : 6.03g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:12 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	3081	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

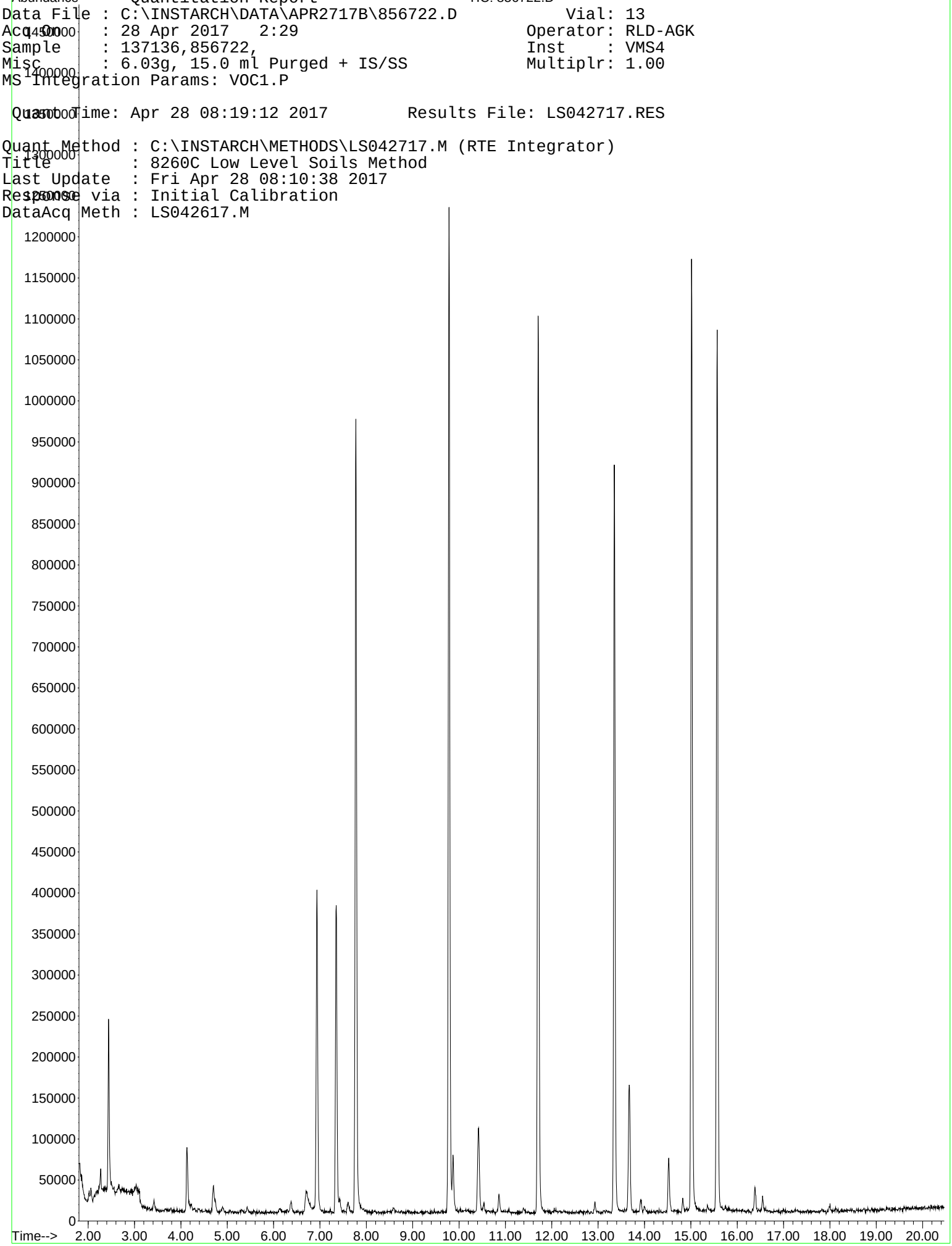
(#) = qualifier out of range (m) = manual integration

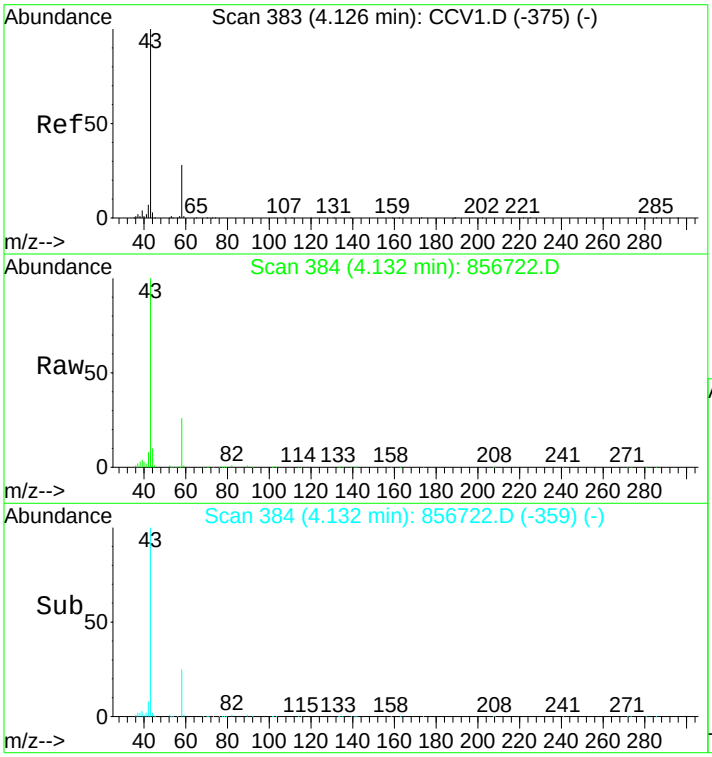
Abundance Quantitation Report TIC: 856722.D

Data File : C:\INSTARCH\DATA\APR2717B\856722.D Vial: 13
Acq On : 28 Apr 2017 2:29 Operator: RLD-AGK
Sample : 137136,856722, Inst : VMS4
Misc : 6.03g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:12 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

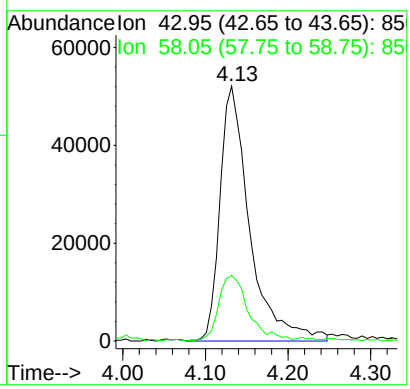


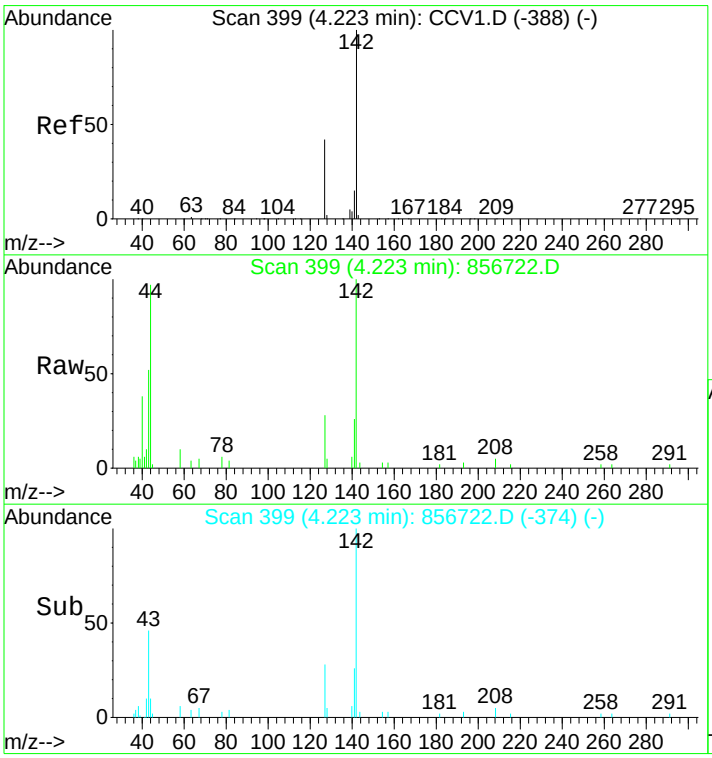


#15
Acetone
Concen: 0.03 mg/kg
RT: 4.13 min Scan# 384
Delta R.T. 0.00 min
Lab File: 856722.D
Acq: 28 Apr 2017 2:29

Tgt Ion: 43 Resp: 130547

Ion	Ratio	Lower	Upper
43	100		
58	26.7	7.4	47.4

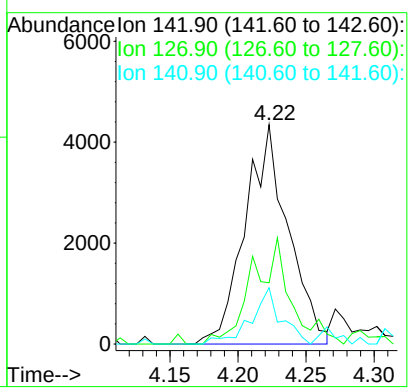


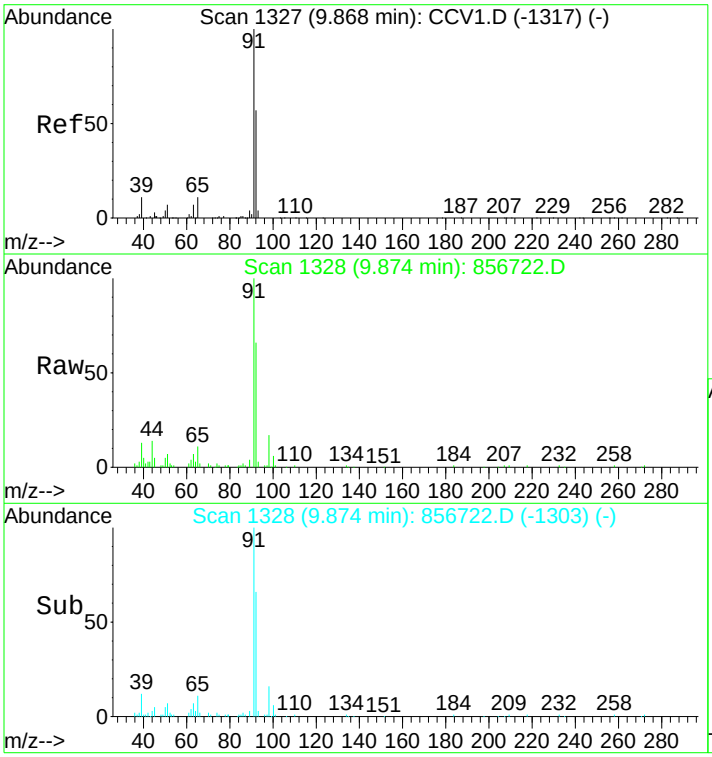


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 399
Delta R.T. 0.00 min
Lab File: 856722.D
Acq: 28 Apr 2017 2:29

Tgt Ion:142 Resp: 9577

Ion	Ratio	Lower	Upper
142	100		
127	43.1	19.8	59.8
141	17.8	0.0	34.5

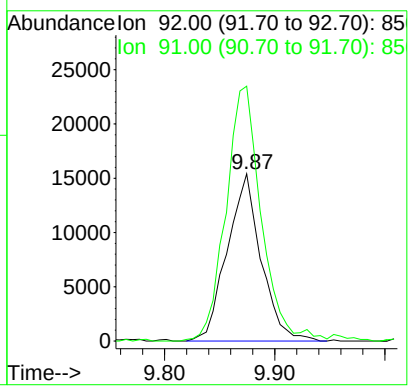




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1328
Delta R.T. 0.00 min
Lab File: 856722.D
Acq: 28 Apr 2017 2:29

Tgt Ion: 92 Resp: 32914

Ion	Ratio	Lower	Upper
92	100		
91	158.8	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856723.D Vial: 14
Acq On : 28 Apr 2017 2:58 Operator: RLD-AGK
Sample : 137136,856723, Inst : VMS4
Misc : 4.59g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:28 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	944311	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	760583	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	396184	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	248719	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.36	102	59030	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.78	98	935475	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	357925	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 105 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	8505	N.D.		
3) Chloromethan	2.12	50	2190	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	1380	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	3.91	56	1897	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	322501	0.0820	mg/kg	100
16) Iodomethane	4.22	142	7651	0.0006	mg/kg#	80
17) Carbon Dislf	4.30	76	4083	N.D.		
18) allylchloride	4.52	41	4602	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	14022	Below	Cal	91
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.89	59	6162	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	8492	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	6.37	72	11987	0.0120	mg/kg	95
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	6.72	42	6660	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856723.D Vial: 14
Acq On : 28 Apr 2017 2:58 Operator: RLD-AGK
Sample : 137136,856723, Inst : VMS4
Misc : 4.59g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:28 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.01	56	1493	N.D.		
43)	Carbtetraclo	0.00	119	0	N.D.		
44)	11dicloprope	0.00	110	0	N.D.		
46)	Benzene	7.42	78	9732	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	9.16	43	1511	0.0108	mg/kg#	15
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.63	43	2200	N.D.		
61)	Toluene	9.87	92	23799	0.0010	mg/kg	99
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	10.73	43	4237	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	11.71	91	1875	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.90	91	1718	N.D.		
75)	m p-Xylene	12.06	106	1840	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	13.35	55	1073	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.68	75	1325	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	13.85	105	1001	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.52	105	56240	0.0015	mg/kg#	32
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	15.55	91	1344	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	0.00	180	0	N.D.		
101)	124Trichlobe	17.83	180	1008	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856723.D Vial: 14
Acq On : 28 Apr 2017 2:58 Operator: RLD-AGK
Sample : 137136,856723, Inst : VMS4
Misc : 4.59g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:28 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.12	128	3997	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

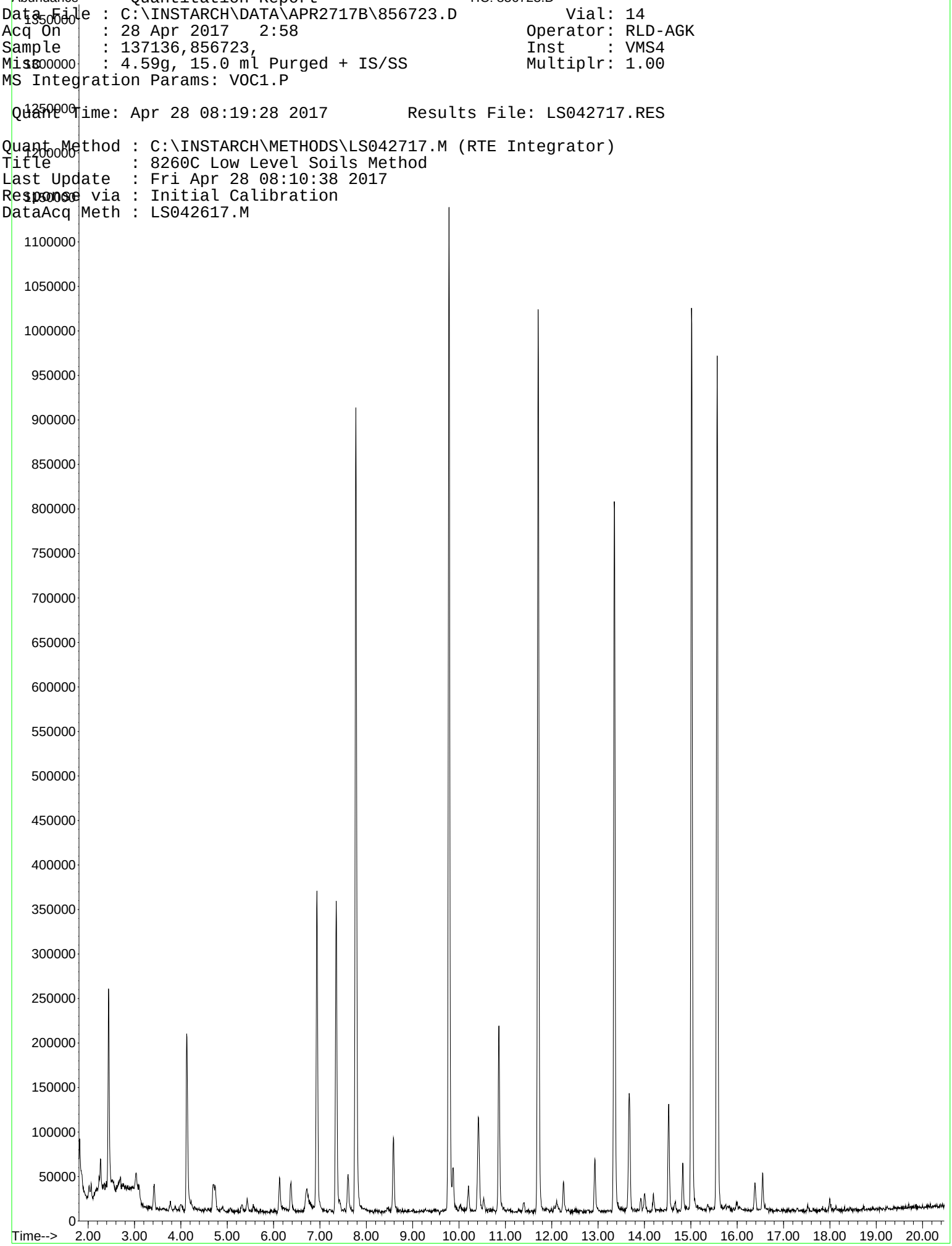
(#) = qualifier out of range (m) = manual integration

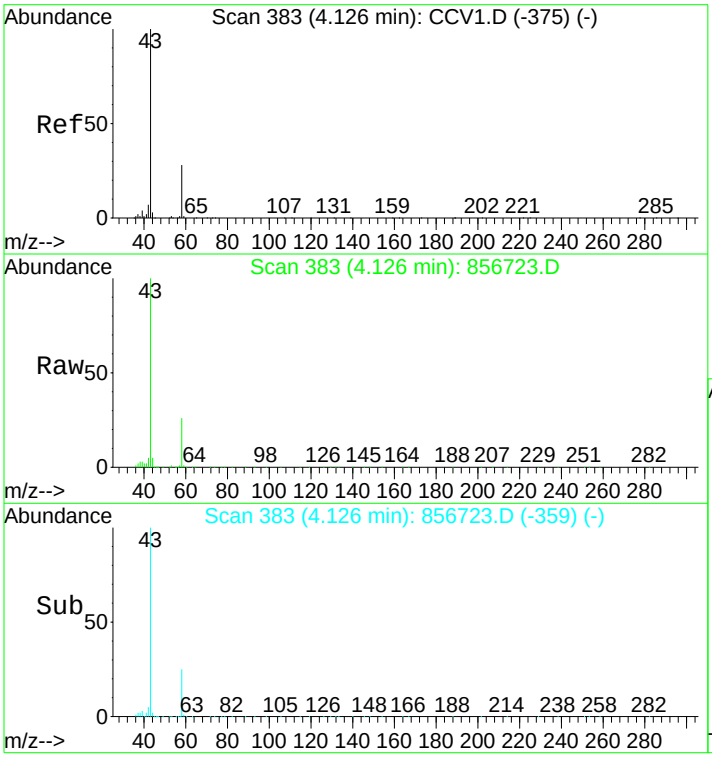
Abundance Quantitation Report TIC: 856723.D

Data File : C:\INSTARCH\DATA\APR2717B\856723.D Vial: 14
Acq On : 28 Apr 2017 2:58 Operator: RLD-AGK
Sample : 137136,856723, Inst : VMS4
Misc : 4.59g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:28 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

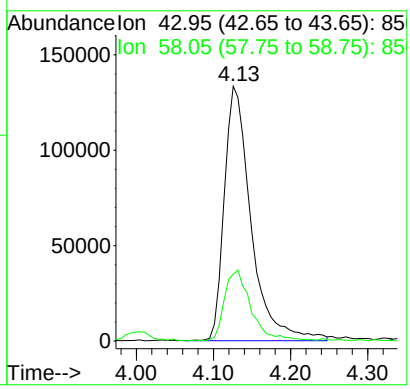


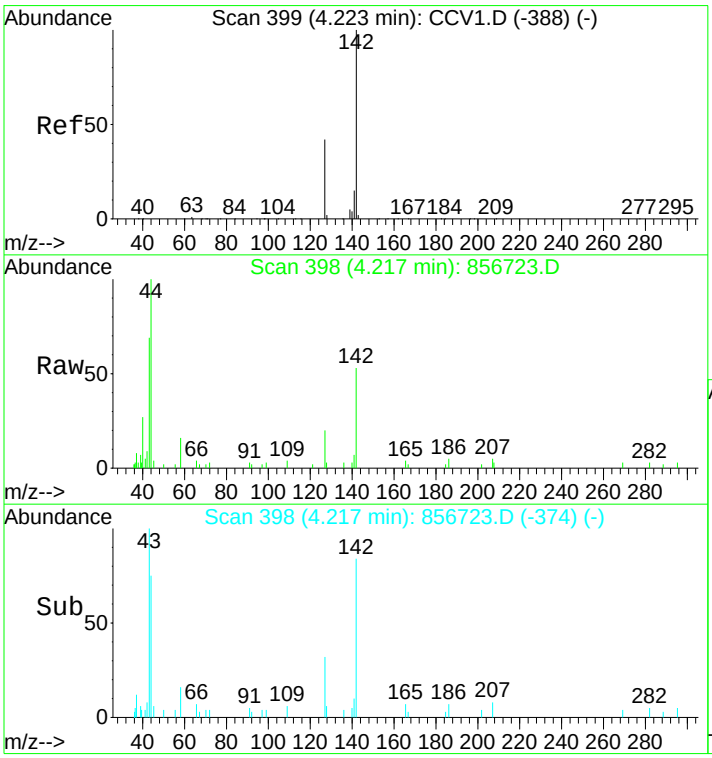


#15
Acetone
Concen: 0.08 mg/kg
RT: 4.13 min Scan# 383
Delta R.T. -0.00 min
Lab File: 856723.D
Acq: 28 Apr 2017 2:58

Tgt Ion: 43 Resp: 322501

Ion	Ratio	Lower	Upper
43	100		
58	27.3	7.4	47.4

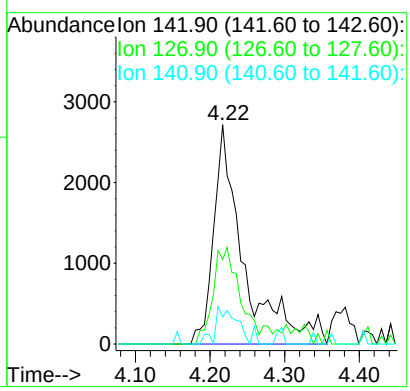


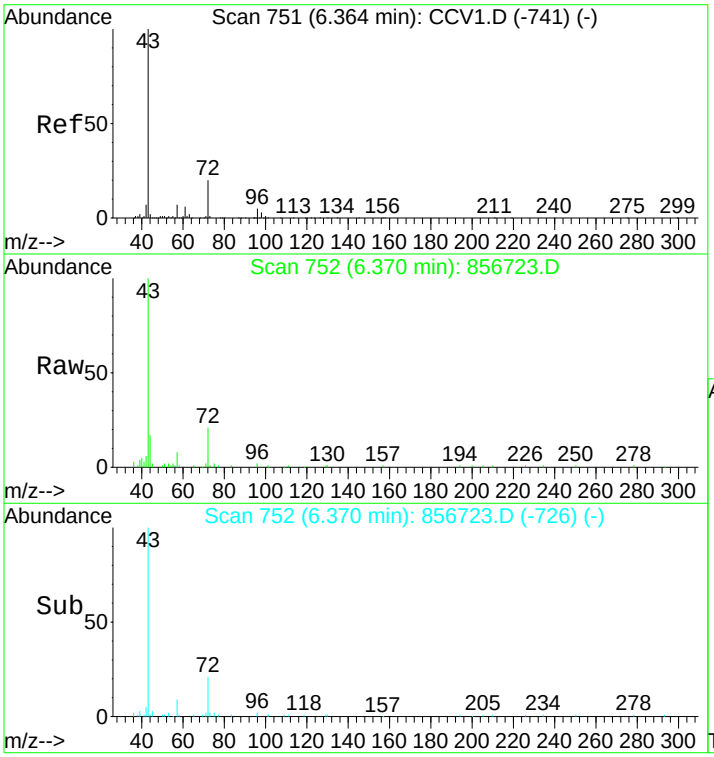


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 398
Delta R.T. -0.00 min
Lab File: 856723.D
Acq: 28 Apr 2017 2:58

Tgt Ion:142 Resp: 7651

Ion	Ratio	Lower	Upper
142	100		
127	48.4	19.8	59.8
141	0.0	0.0	34.5

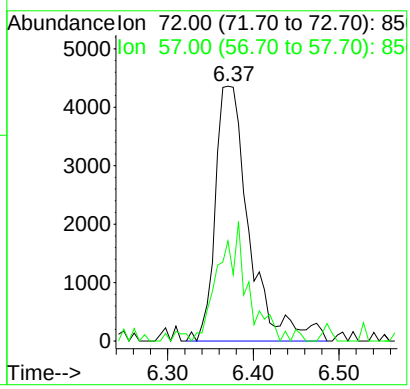


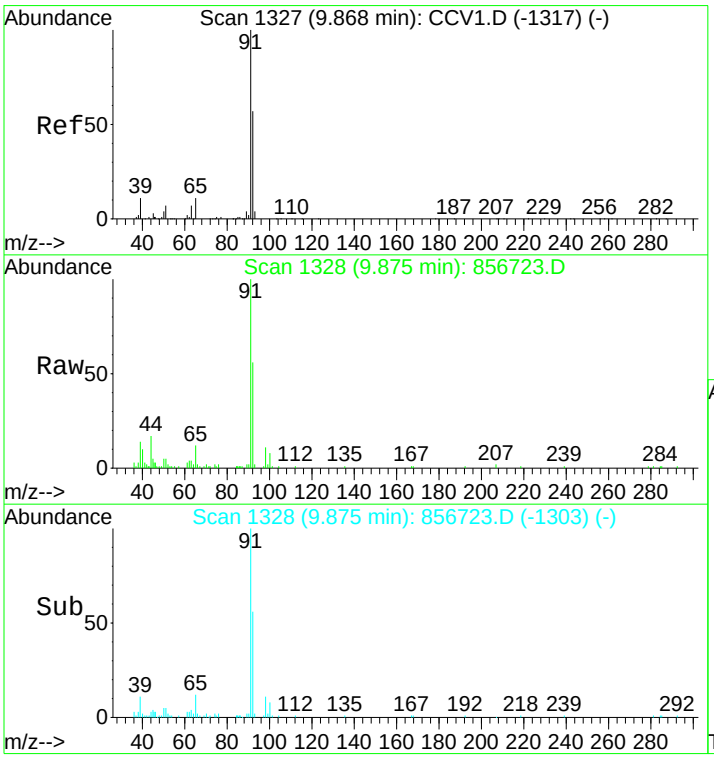


#33
2Butanone
Concen: 0.01 mg/kg
RT: 6.37 min Scan# 752
Delta R.T. 0.01 min
Lab File: 856723.D
Acq: 28 Apr 2017 2:58

Tgt Ion: 72 Resp: 11987

Ion	Ratio	Lower	Upper
72	100		
57	39.2	16.1	56.1

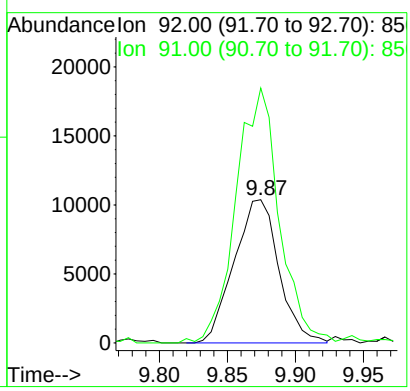


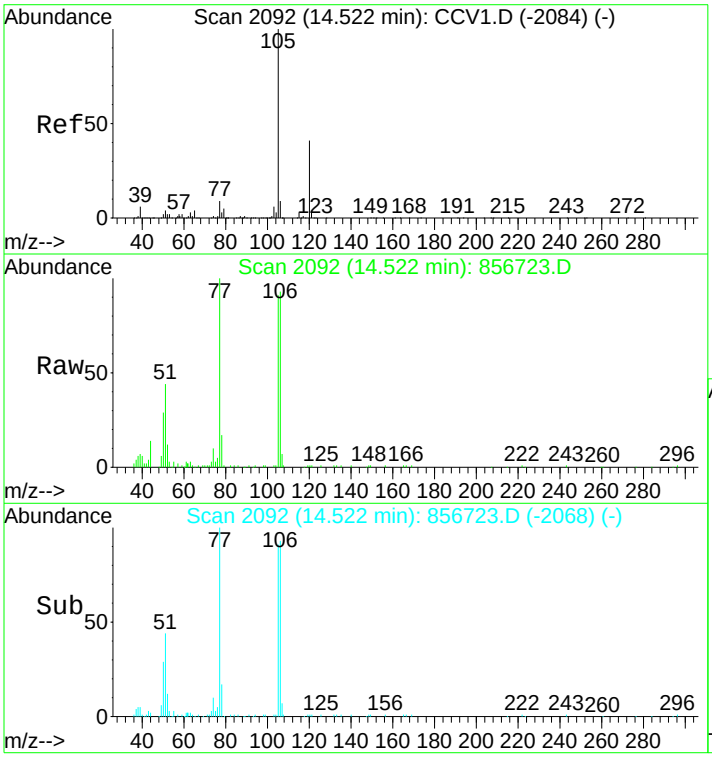


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1328
Delta R.T. 0.00 min
Lab File: 856723.D
Acq: 28 Apr 2017 2:58

Tgt Ion: 92 Resp: 23799

Ion	Ratio	Lower	Upper
92	100		
91	175.2	157.1	197.1

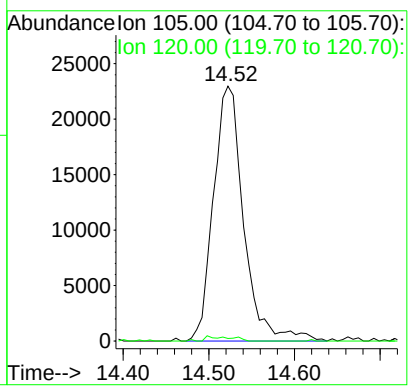




#92
124Trimetben
Concen: 0.00 mg/kg
RT: 14.52 min Scan# 2092
Delta R.T. -0.00 min
Lab File: 856723.D
Acq: 28 Apr 2017 2:58

Tgt Ion:105 Resp: 56240

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.0	64.0#



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856726.D Vial: 15
Acq On : 28 Apr 2017 3:27 Operator: RLD-AGK
Sample : 137136,856726, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	1033787	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	840043	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	463233	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	273272	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.34	102	64157	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.78	98	1024656	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	398788	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	10623	N.D.		
3) Chloromethan	2.12	50	2535	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	1880	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.14	43	30783	N.D.		
16) Iodomethane	4.22	142	3911	N.D.		
17) Carbon Dislf	4.30	76	3220	N.D.		
18) allylchloride	4.53	41	3503	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	13831	Below	Cal	92
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	6498	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	3370	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.73	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	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	6.71	42	6370	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856726.D Vial: 15
Acq On : 28 Apr 2017 3:27 Operator: RLD-AGK
Sample : 137136,856726, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.44	78	6328	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	9.20	43	1514	0.0108	mg/kg#	15
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.64	43	1408	N.D.		
61)	Toluene	9.87	92	22907	0.0008	mg/kg	90
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	10.73	43	1224	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	11.71	91	1580	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.91	91	1456	N.D.		
75)	m p-Xylene	12.06	106	1836	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	13.34	55	2087	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	14.52	105	5219	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	15.56	91	1403	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\APR2717B\856726.D Vial: 15
Acq On : 28 Apr 2017 3:27 Operator: RLD-AGK
Sample : 137136,856726, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	2738	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

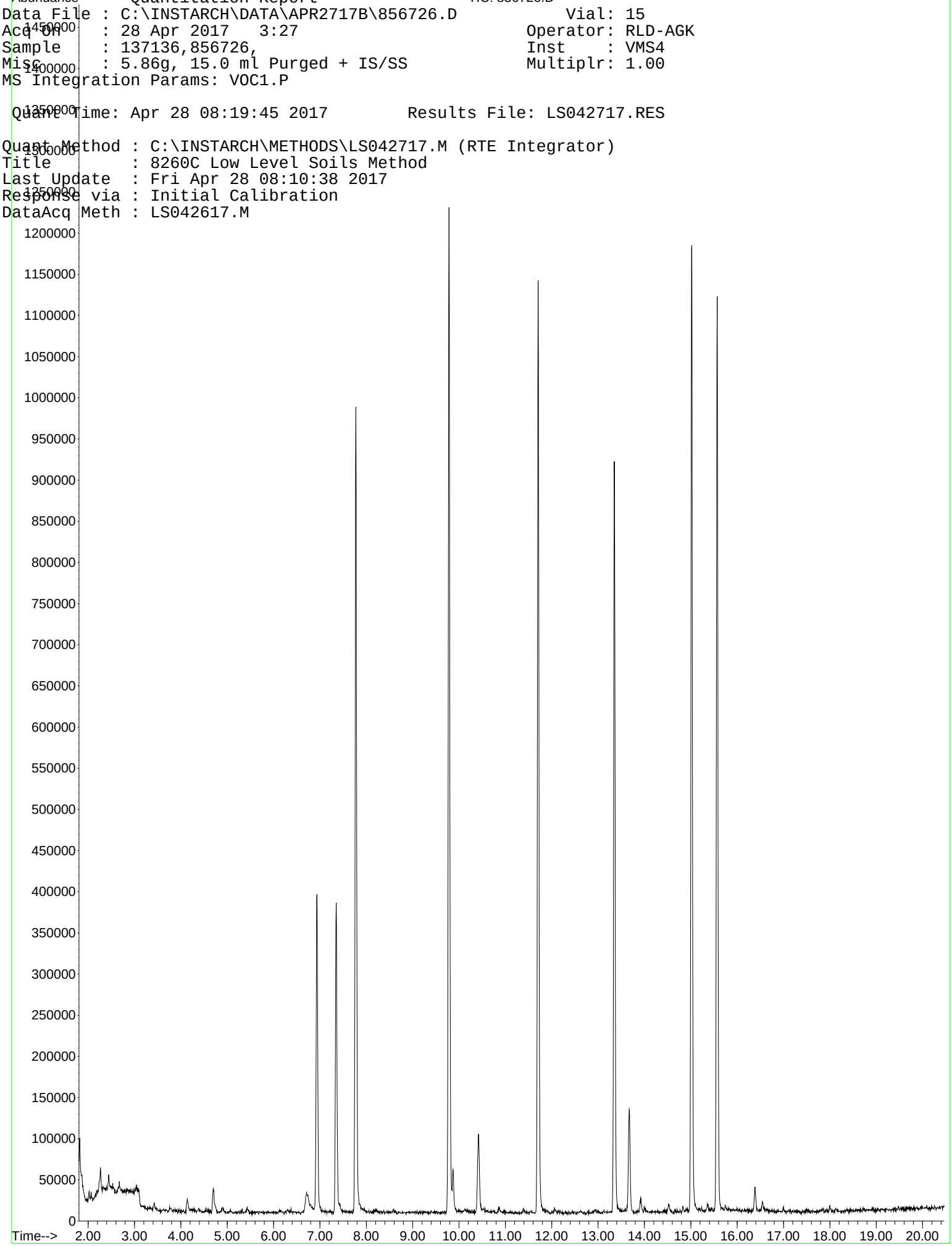
(#) = qualifier out of range (m) = manual integration

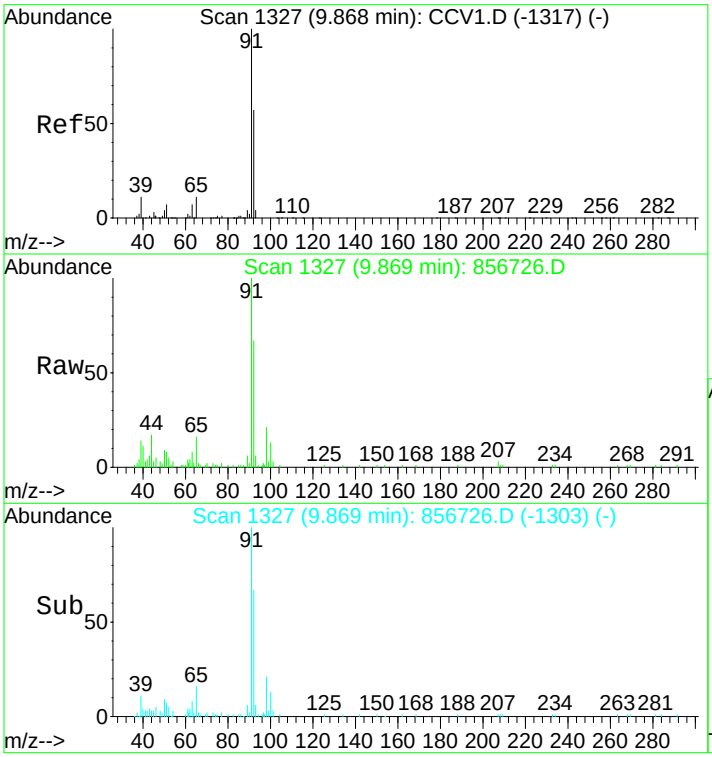
Abundance Quantitation Report TIC: 856726.D

Data File : C:\INSTARCH\DATA\APR2717B\856726.D Vial: 15
Acq On : 28 Apr 2017 3:27 Operator: RLD-AGK
Sample : 137136,856726, Inst : VMS4
Misc : 5.86g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

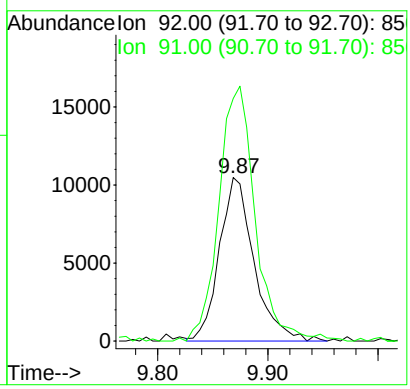




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 856726.D
Acq: 28 Apr 2017 3:27

Tgt Ion: 92 Resp: 22907

Ion	Ratio	Lower	Upper
92	100		
91	163.5	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856727.D Vial: 16
Acq On : 28 Apr 2017 3:55 Operator: RLD-AGK
Sample : 137136,856727, Inst : VMS4
Misc : 6.08g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:57 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	1047497	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	847802	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	464735	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	278966	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.36	102	64368	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	1045232	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	396089	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	5982	N.D.		
3) Chloromethan	2.12	50	2882	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	4353	N.D.		
6) Chloroethane	2.90	64	1244	N.D.		
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	4.13	43	102657	0.0235	mg/kg	98
16) Iodomethane	4.22	142	11044	0.0008	mg/kg	98
17) Carbon Dislf	4.30	76	3199	N.D.		
18) allylchloride	4.53	41	4773	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	14025	Below	Cal	93
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.89	59	6482	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	2738	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	6.38	72	4047	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	6.71	42	5774	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856727.D Vial: 16
Acq On : 28 Apr 2017 3:55 Operator: RLD-AGK
Sample : 137136,856727, Inst : VMS4
Misc : 6.08g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:57 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.42	78	9422	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	9.64	43	1290	N.D.	
61)	Toluene	9.87	92	2916	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	10.73	43	3089	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	11.70	91	1421	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	0.00	91	0	N.D.	
75)	m p-Xylene	12.06	106	1345	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	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	4446	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.73	91	1206	N.D.	
88)	2chlorotolue	13.73	91	1206	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	14.53	105	20201	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	15.58	91	1116	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	17.81	180	1476	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856727.D Vial: 16
Acq On : 28 Apr 2017 3:55 Operator: RLD-AGK
Sample : 137136,856727, Inst : VMS4
Misc : 6.08g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:57 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	3596	N.D.	
104) 123Trichlben	18.43	180	1151	N.D.	

(#) = qualifier out of range (m) = manual integration

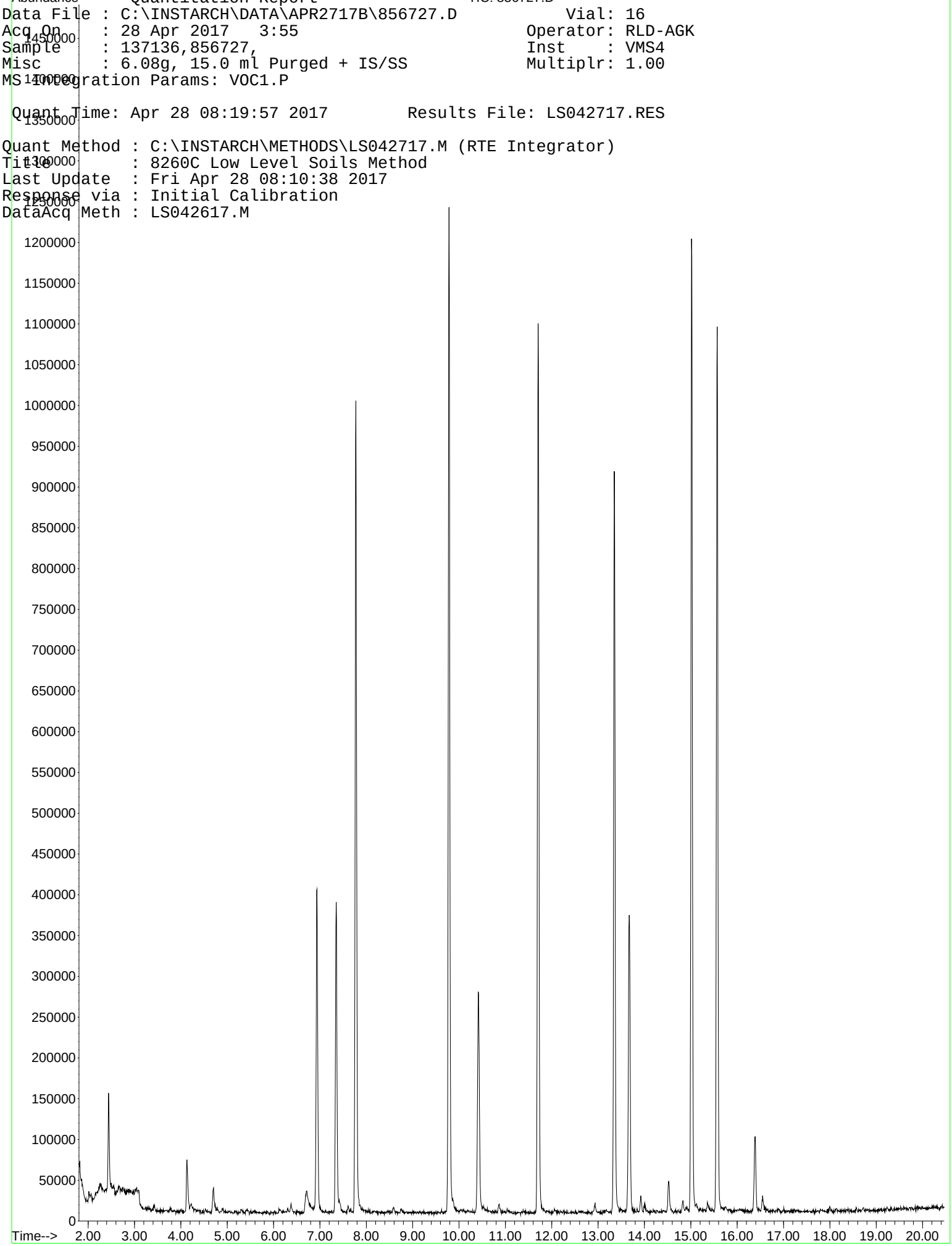
Quantitation Report

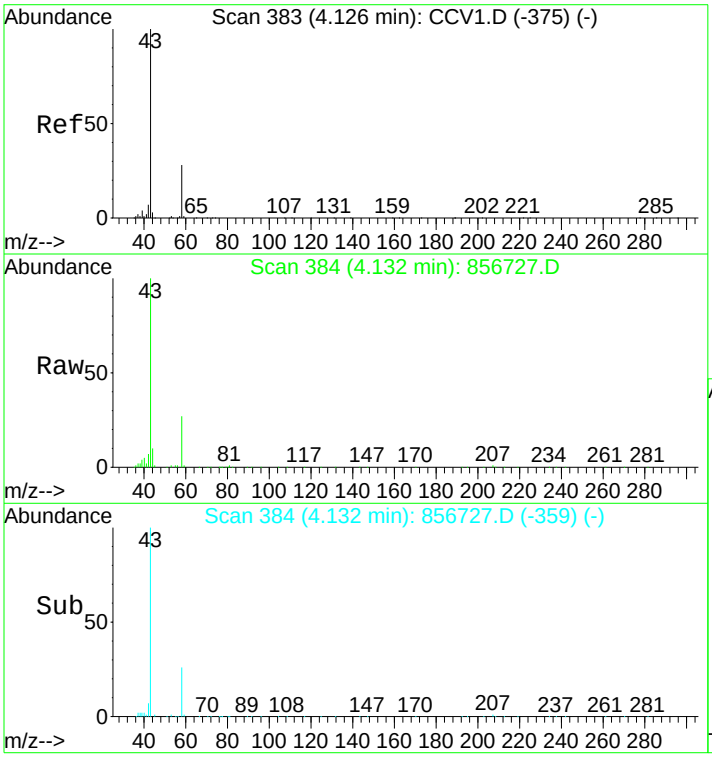
TIC: 856727.D

Data File : C:\INSTARCH\DATA\APR2717B\856727.D Vial: 16
Acq On : 28 Apr 2017 3:55 Operator: RLD-AGK
Sample : 137136,856727, Inst : VMS4
Misc : 6.08g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:19:57 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

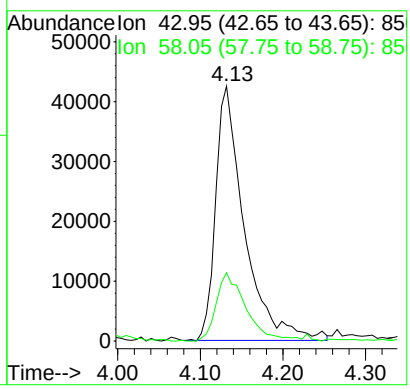


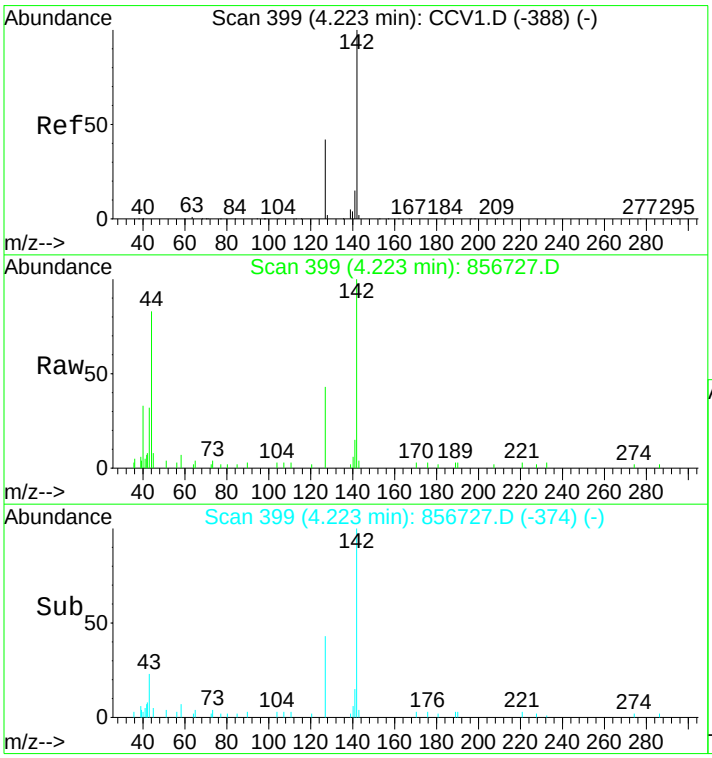


#15
Acetone
Concen: 0.02 mg/kg
RT: 4.13 min Scan# 384
Delta R.T. 0.00 min
Lab File: 856727.D
Acq: 28 Apr 2017 3:55

Tgt Ion: 43 Resp: 102657

Ion	Ratio	Lower	Upper
43	100		
58	28.3	7.4	47.4

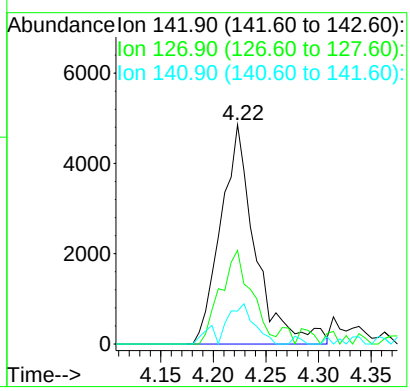




#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 399
Delta R.T. 0.00 min
Lab File: 856727.D
Acq: 28 Apr 2017 3:55

Tgt Ion:142 Resp: 11044

Ion	Ratio	Lower	Upper
142	100		
127	38.6	19.8	59.8
141	13.5	0.0	34.5



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856728.D Vial: 17
Acq On : 28 Apr 2017 4:24 Operator: RLD-AGK
Sample : 137136,856728, Inst : VMS4
Misc : 6.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:20:13 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	940827	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	766400	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	418393	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	249083	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	58412	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.78	98	950216	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	362898	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	10583	N.D.		
3) Chloromethan	2.12	50	3024	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	3.93	56	1045	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.14	43	28135	N.D.		
16) Iodomethane	4.22	142	3908	0.0003	mg/kg#	82
17) Carbon Dislf	4.31	76	2955	N.D.		
18) allylchloride	4.56	41	5436	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	10773	Below	Cal	87
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	6102	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	4461	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.72	43	1294	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	6.71	42	6039	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856728.D Vial: 17
Acq On : 28 Apr 2017 4:24 Operator: RLD-AGK
Sample : 137136,856728, Inst : VMS4
Misc : 6.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:20:13 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.43	78	3574	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	9.63	43	1896	N.D.		
61)	Toluene	9.87	92	17535	0.0007	mg/kg	89
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	10.73	43	1278	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	11.70	91	2435	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.89	91	1145	N.D.		
75)	m p-Xylene	12.06	106	1087	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	0.00	55	0	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.66	75	2268	N.D.		
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.73	91	1083	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	14.52	105	3429	N.D.		
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	14.97	119	1075	N.D.		
96)	14dichlorobe	15.06	146	1298	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.59	91	1900	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\APR2717B\856728.D Vial: 17
Acq On : 28 Apr 2017 4:24 Operator: RLD-AGK
Sample : 137136,856728, Inst : VMS4
Misc : 6.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:20:13 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	2832	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

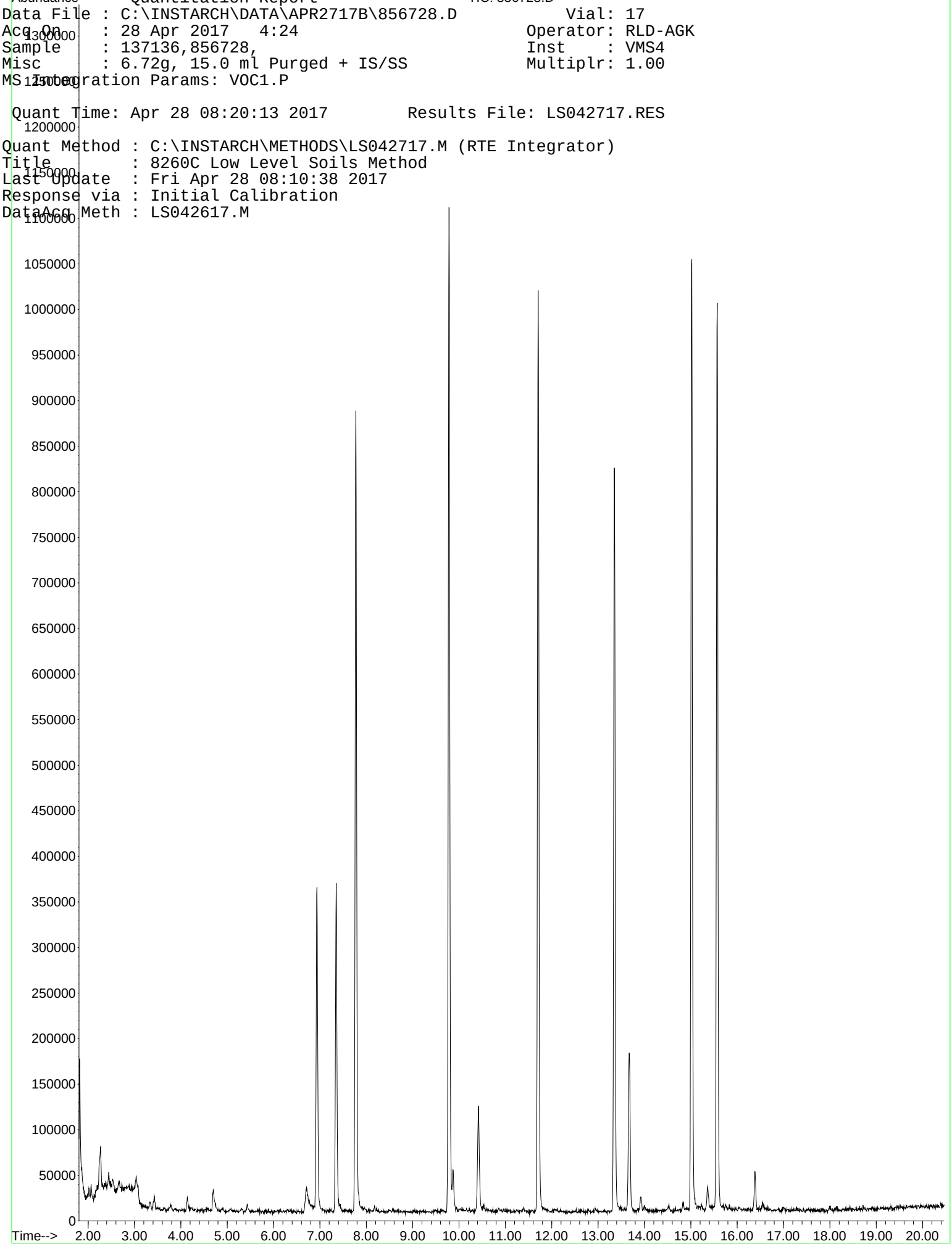
Quantitation Report

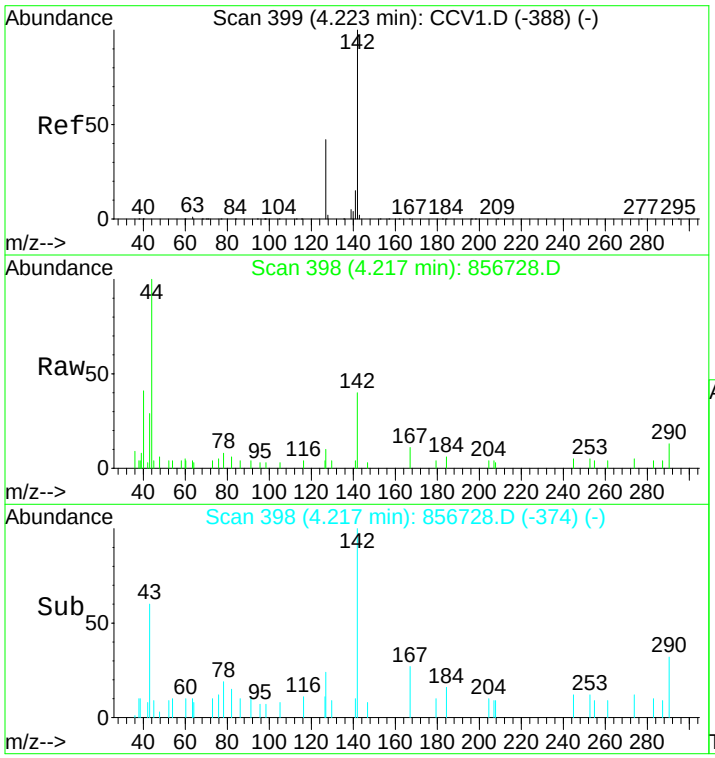
TIC: 856728.D

Data File : C:\INSTARCH\DATA\APR2717B\856728.D Vial: 17
Acq On : 28 Apr 2017 4:24 Operator: RLD-AGK
Sample : 137136,856728, Inst : VMS4
Misc : 6.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:20:13 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

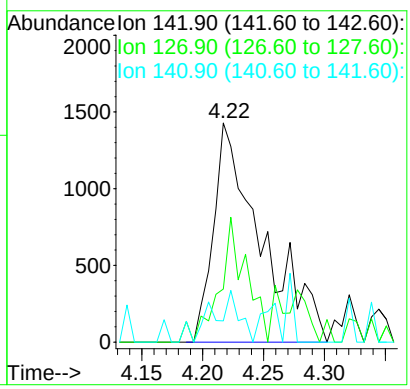


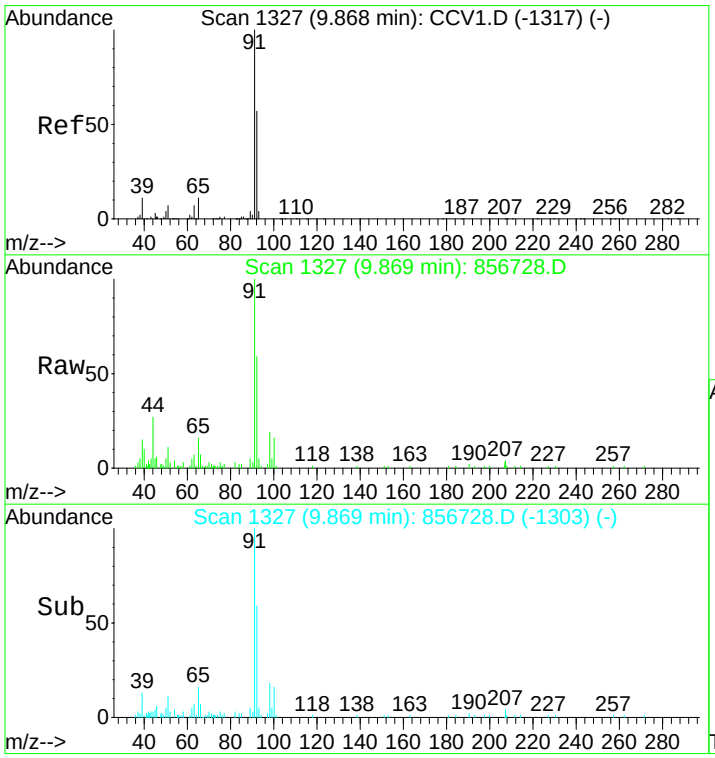


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 398
Delta R.T. -0.00 min
Lab File: 856728.D
Acq: 28 Apr 2017 4:24

Tgt Ion:142 Resp: 3908

Ion	Ratio	Lower	Upper
142	100		
127	32.3	19.8	59.8
141	0.0	0.0	34.5

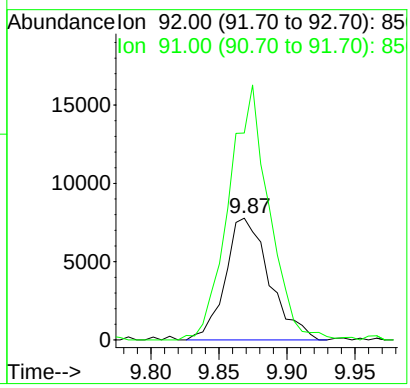




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 856728.D
Acq: 28 Apr 2017 4:24

Tgt Ion: 92 Resp: 17535

Ion	Ratio	Lower	Upper
92	100		
91	192.2	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856729.D Vial: 18
Acq On : 28 Apr 2017 4:53 Operator: RLD-AGK
Sample : 137136,856729, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:22:04 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	1020914	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	831619	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	458947	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	269966	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	64329	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.78	98	1028286	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	393421	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	5107	N.D.		
3) Chloromethan	2.12	50	3089	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.13	43	100957	0.0237	mg/kg	96
16) Iodomethane	4.22	142	4413	0.0003	mg/kg#	85
17) Carbon Dislf	4.30	76	2383	N.D.		
18) allylchloride	4.53	41	3732	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	12625	Below	Cal	93
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	5267	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	1898	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	6.38	72	3814	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	6.72	42	6410	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856729.D Vial: 18
Acq On : 28 Apr 2017 4:53 Operator: RLD-AGK
Sample : 137136,856729, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:22:04 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.43	78	4873	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	9.63	43	2725	N.D.	
61) Toluene	9.86	92	12587	0.0005 mg/kg	98
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	10.73	43	1661	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	11.71	91	1900	N.D.	
73) 1112Tetclota	0.00	131	0	N.D.	
74) Ethylbenzene	0.00	91	0	N.D.	
75) m p-Xylene	12.06	106	1044	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	13.35	55	1972	N.D.	
83) Bromobenzene	0.00	156	0	N.D.	
84) 1122Tetrclta	0.00	83	0	N.D.	
85) 123Triclproa	13.68	75	1934	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	14.52	105	23959	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	15.59	91	1479	N.D.	
99) 12dibromo3cl	0.00	157	0	N.D.	
100) 135Trichlorobenzene	0.00	180	0	N.D.	
101) 124Trichlobe	17.83	180	1143	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856729.D Vial: 18
Acq On : 28 Apr 2017 4:53 Operator: RLD-AGK
Sample : 137136,856729, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:22:04 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	2170	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

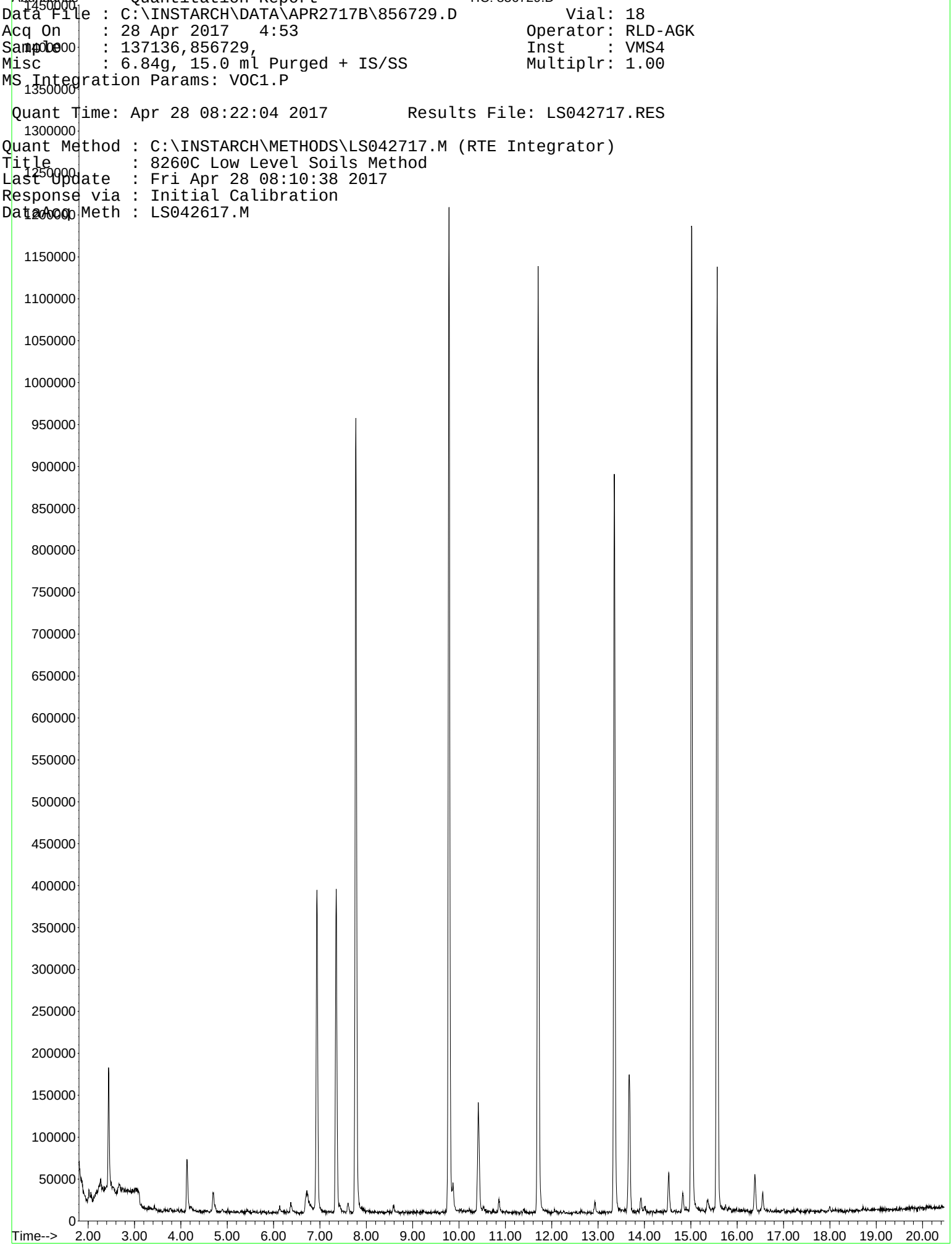
(#) = qualifier out of range (m) = manual integration

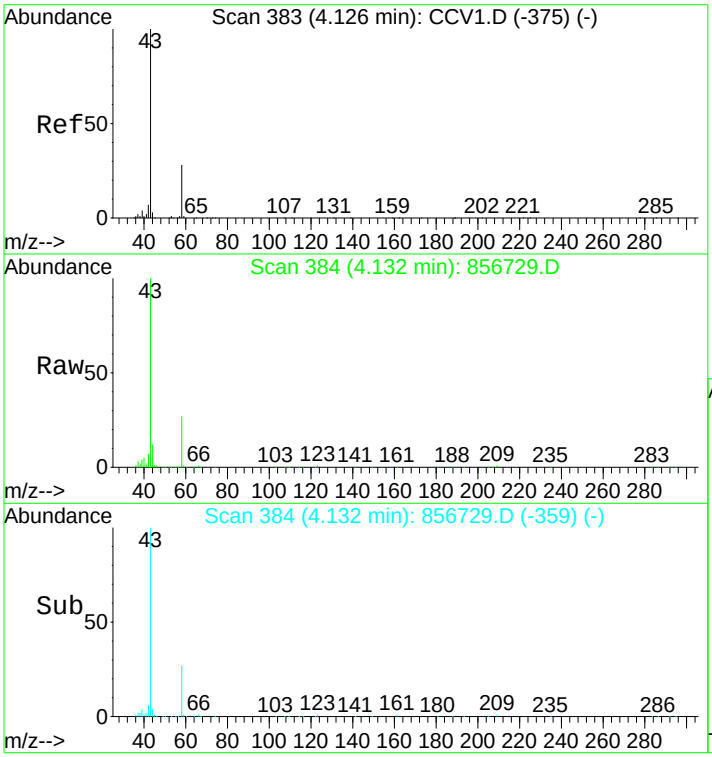
Quantitation Report (TIC: 856729.D)

Data File : C:\INSTARCH\DATA\APR2717B\856729.D Vial: 18
Acq On : 28 Apr 2017 4:53 Operator: RLD-AGK
Sample : 137136,856729, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:22:04 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

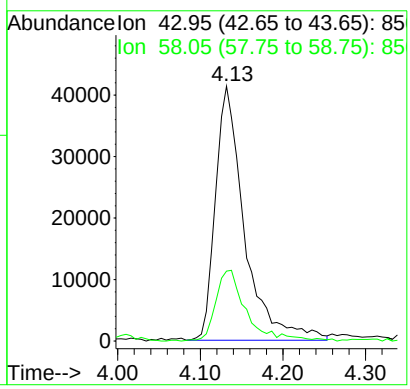


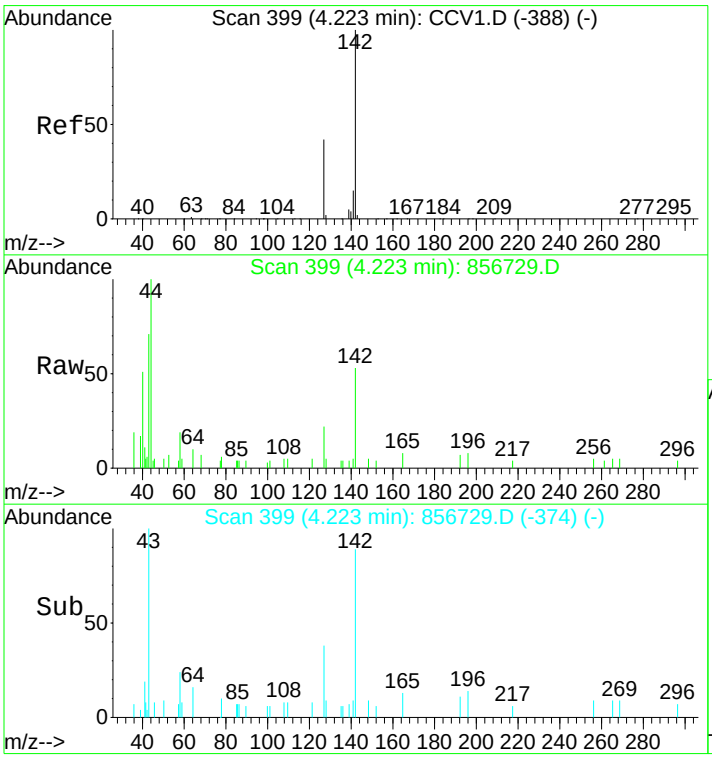


#15
Acetone
Concen: 0.02 mg/kg
RT: 4.13 min Scan# 384
Delta R.T. 0.00 min
Lab File: 856729.D
Acq: 28 Apr 2017 4:53

Tgt Ion: 43 Resp: 100957

Ion	Ratio	Lower	Upper
43	100		
58	29.3	7.4	47.4

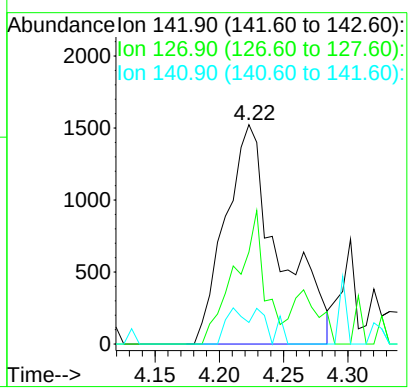


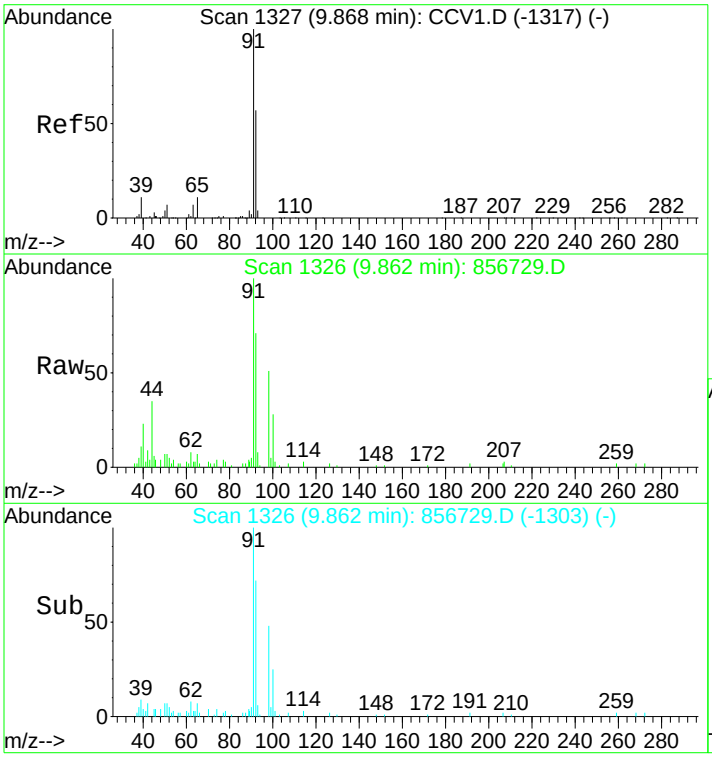


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 399
Delta R.T. 0.00 min
Lab File: 856729.D
Acq: 28 Apr 2017 4:53

Tgt Ion:142 Resp: 4413

Ion	Ratio	Lower	Upper
142	100		
127	34.9	19.8	59.8
141	0.0	0.0	34.5

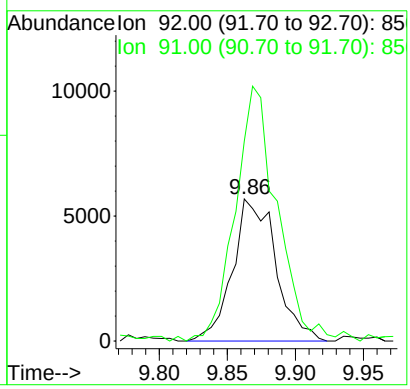




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.86 min Scan# 1326
Delta R.T. -0.01 min
Lab File: 856729.D
Acq: 28 Apr 2017 4:53

Tgt Ion: 92 Resp: 12587

Ion	Ratio	Lower	Upper
92	100		
91	174.5	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856730.D Vial: 19
Acq On : 28 Apr 2017 5:22 Operator: RLD-AGK
Sample : 137136,856730, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:22:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	908334	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	733202	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	396488	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	238102	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	55210	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	910128	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	342334	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	8117	N.D.		
3) Chloromethan	2.12	50	3087	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.14	43	44223	0.0117	mg/kg	98
16) Iodomethane	4.22	142	4663	0.0004	mg/kg#	84
17) Carbon Dislf	4.30	76	2778	N.D.		
18) allylchloride	4.56	41	4847	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	12553	Below	Cal	95
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	5838	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.42	57	5923	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	6.39	72	1525	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	6.71	42	5811	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856730.D Vial: 19
Acq On : 28 Apr 2017 5:22 Operator: RLD-AGK
Sample : 137136,856730, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:22:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.43	78	5611	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	9.64	43	1352	N.D.	
61)	Toluene	9.87	92	45406	0.0019 mg/kg	95
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	10.73	43	2320	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	11.71	91	1811	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.91	91	1495	N.D.	
75)	m p-Xylene	12.06	106	1481	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	13.35	55	1309	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.66	75	5283	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	13.85	105	1007	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.52	105	8396	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	15.58	91	1691	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\APR2717B\856730.D Vial: 19
Acq On : 28 Apr 2017 5:22 Operator: RLD-AGK
Sample : 137136,856730, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:22:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	2112	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

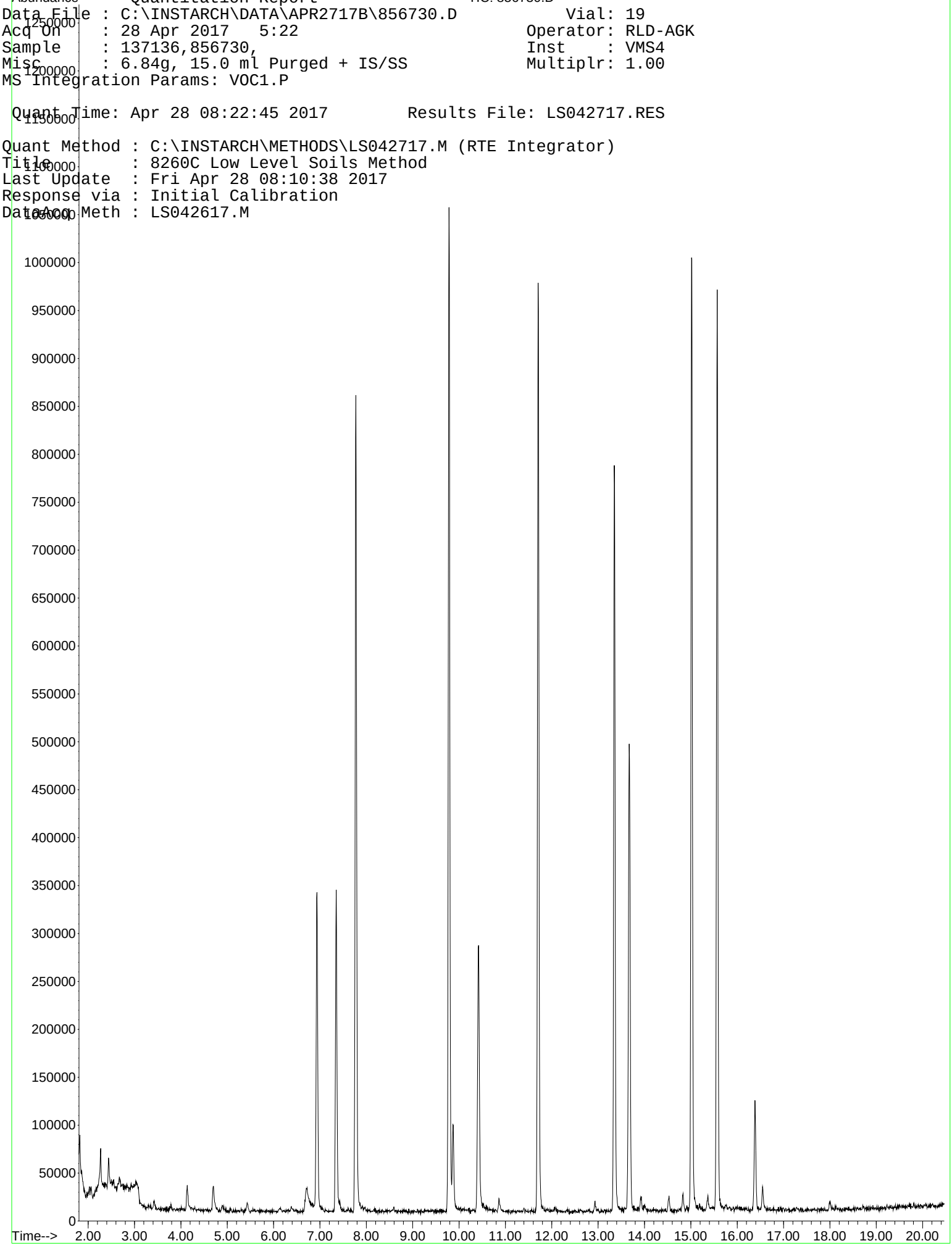
Quantitation Report

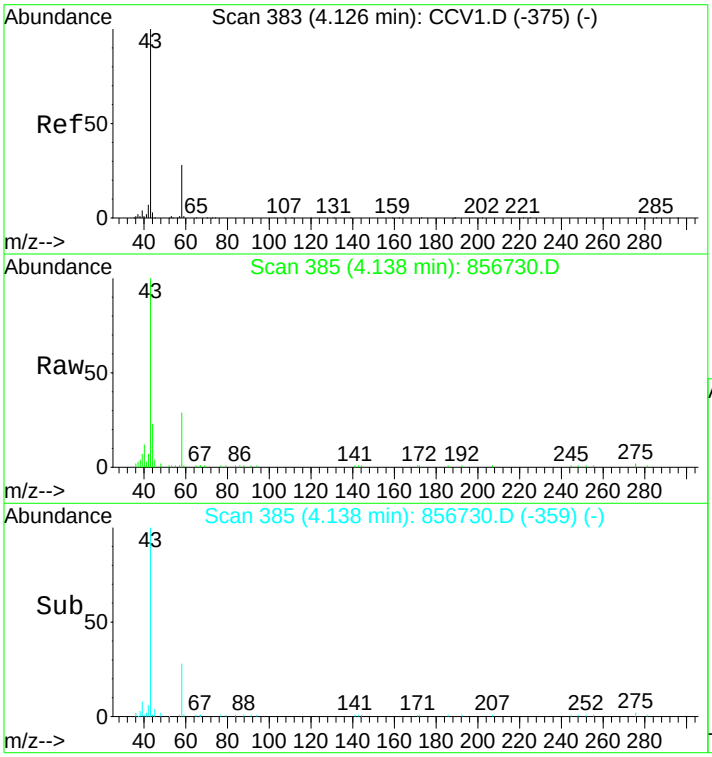
TIC: 856730.D

Data File : C:\INSTARCH\DATA\APR2717B\856730.D Vial: 19
Acq On : 28 Apr 2017 5:22 Operator: RLD-AGK
Sample : 137136,856730, Inst : VMS4
Misc : 6.84g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:22:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

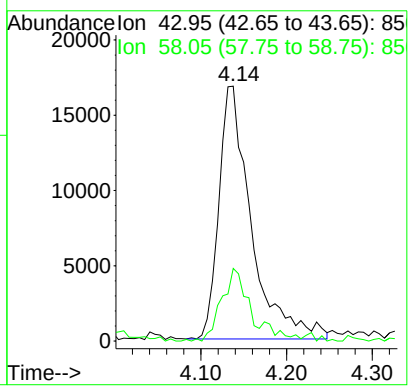


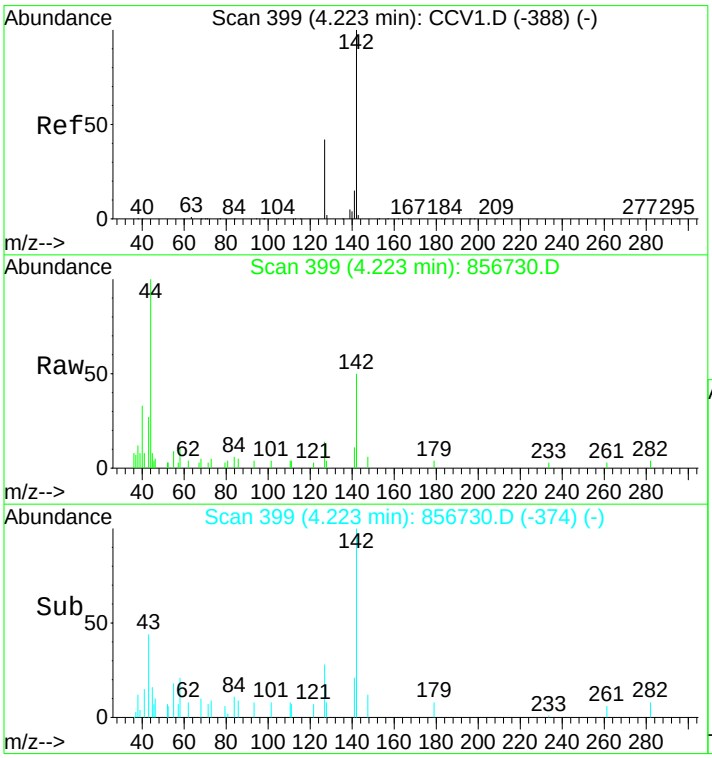


#15
Acetone
Concen: 0.01 mg/kg
RT: 4.14 min Scan# 385
Delta R.T. 0.01 min
Lab File: 856730.D
Acq: 28 Apr 2017 5:22

Tgt Ion: 43 Resp: 44223

Ion	Ratio	Lower	Upper
43	100		
58	26.1	7.4	47.4

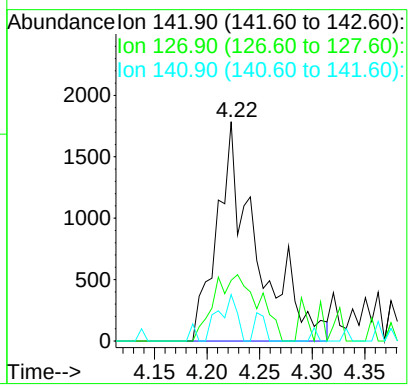


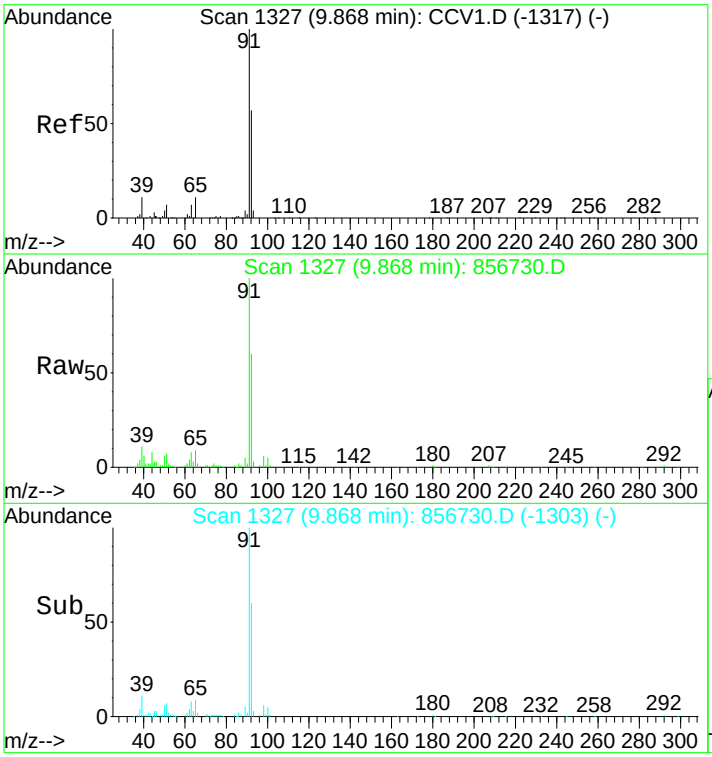


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 399
Delta R.T. 0.00 min
Lab File: 856730.D
Acq: 28 Apr 2017 5:22

Tgt Ion:142 Resp: 4663

Ion	Ratio	Lower	Upper
142	100		
127	34.3	19.8	59.8
141	0.0	0.0	34.5

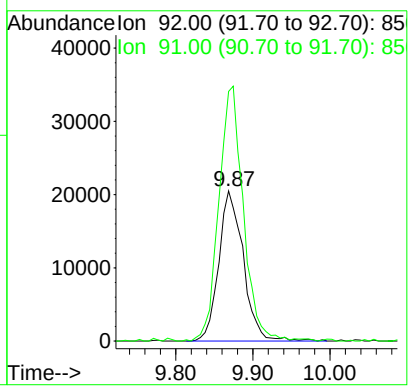




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 856730.D
Acq: 28 Apr 2017 5:22

Tgt Ion: 92 Resp: 45406

Ion	Ratio	Lower	Upper
92	100		
91	169.5	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856731.D Vial: 20
Acq On : 28 Apr 2017 5:51 Operator: RLD-AGK
Sample : 137136,856731, Inst : VMS4
Misc : 6.78g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:09 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	917550	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	748528	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	415820	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	245161	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.36	102	55621	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	927326	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	360884	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	5855	N.D.		
3) Chloromethan	2.11	50	3538	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	1693	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	3.93	56	1049	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	84783	0.0222	mg/kg	99
16) Iodomethane	4.22	142	4835	0.0004	mg/kg#	85
17) Carbon Dislf	4.30	76	2462	N.D.		
18) allylchloride	4.51	41	3835	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	11814	Below	Cal	96
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.91	59	5044	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	6338	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	6.38	72	2406	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	6.70	42	6171	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856731.D Vial: 20
Acq On : 28 Apr 2017 5:51 Operator: RLD-AGK
Sample : 137136,856731, Inst : VMS4
Misc : 6.78g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:09 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.43	78	6089	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	9.17	43	1249	0.0107 mg/kg#	15
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.61	43	2379	N.D.	
61)	Toluene	9.87	92	15751	0.0007 mg/kg	95
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	10.73	43	1588	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	11.71	91	1821	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.89	91	1327	N.D.	
75)	m p-Xylene	12.05	106	1228	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	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.66	75	7594	0.0006 mg/kg#	37
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	14.52	105	14438	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	15.57	91	1025	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	17.82	180	1006	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856731.D Vial: 20
Acq On : 28 Apr 2017 5:51 Operator: RLD-AGK
Sample : 137136,856731, Inst : VMS4
Misc : 6.78g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:09 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	1703	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

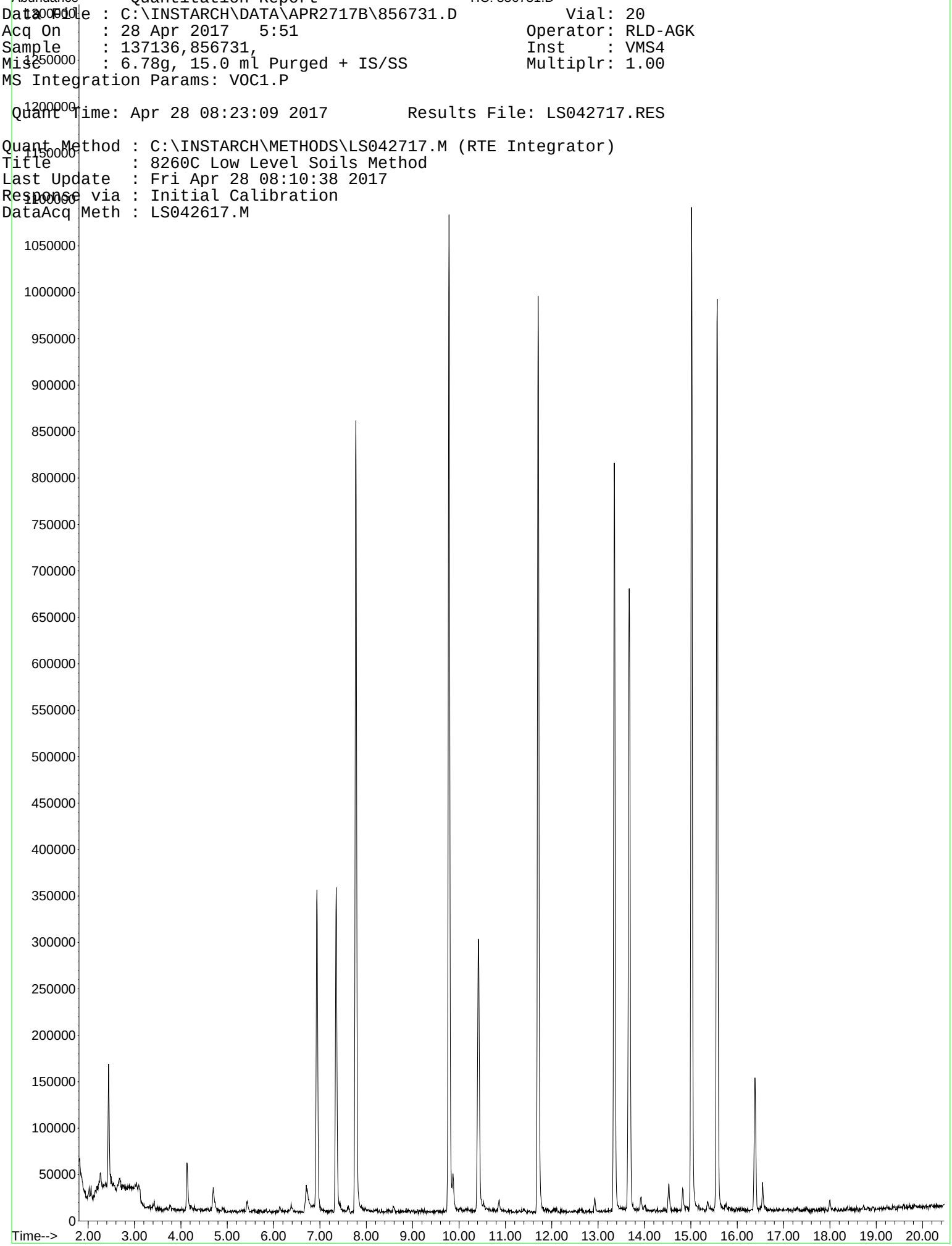
(#) = qualifier out of range (m) = manual integration

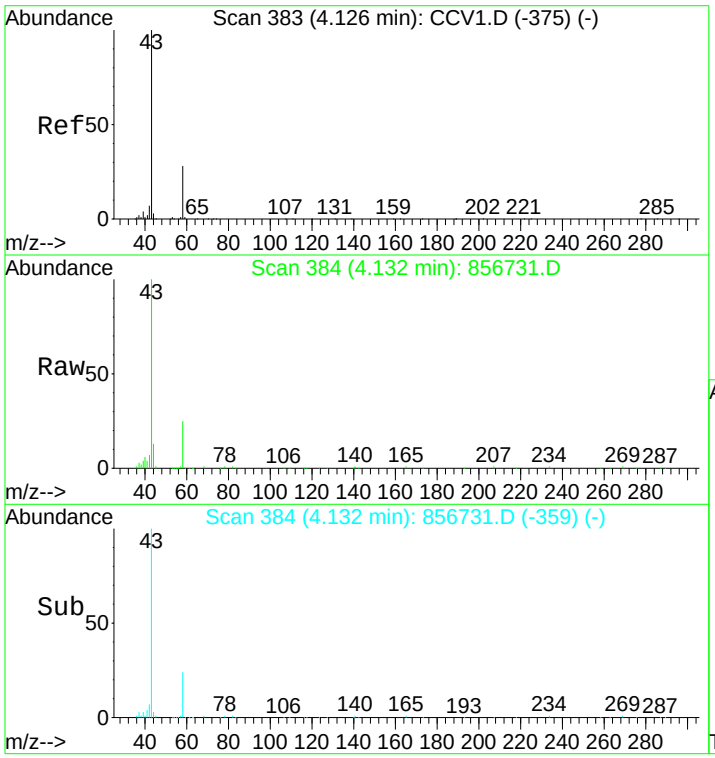
Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856731.D Vial: 20
Acq On : 28 Apr 2017 5:51 Operator: RLD-AGK
Sample : 137136,856731, Inst : VMS4
Misc : 6.78g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:09 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

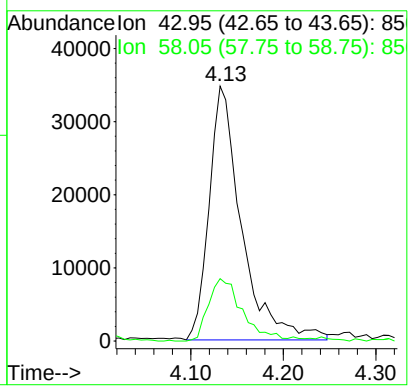


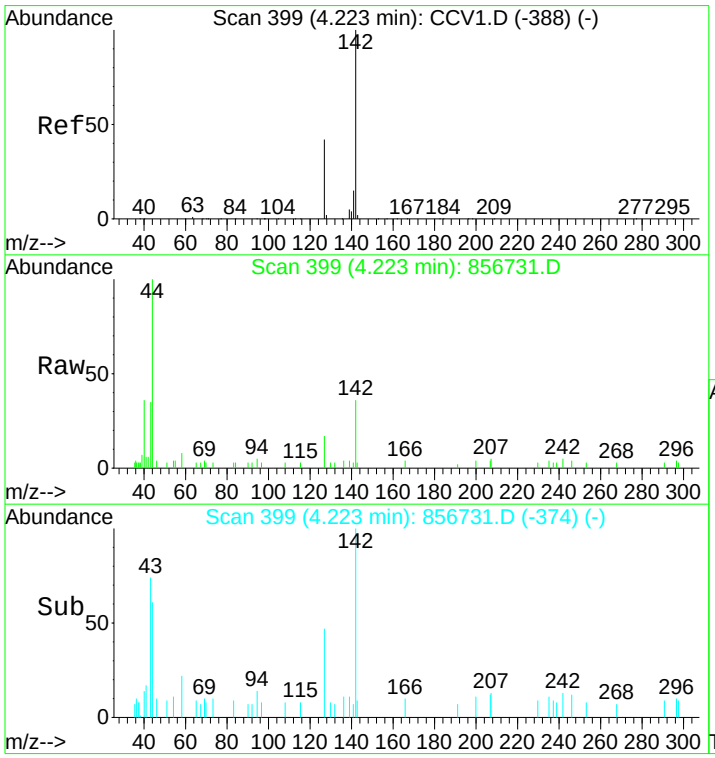


#15
Acetone
Concen: 0.02 mg/kg
RT: 4.13 min Scan# 384
Delta R.T. 0.00 min
Lab File: 856731.D
Acq: 28 Apr 2017 5:51

Tgt Ion: 43 Resp: 84783

Ion	Ratio	Lower	Upper
43	100		
58	26.9	7.4	47.4

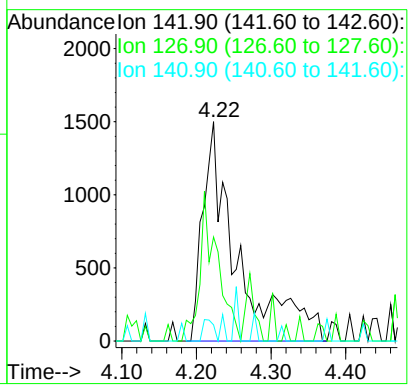


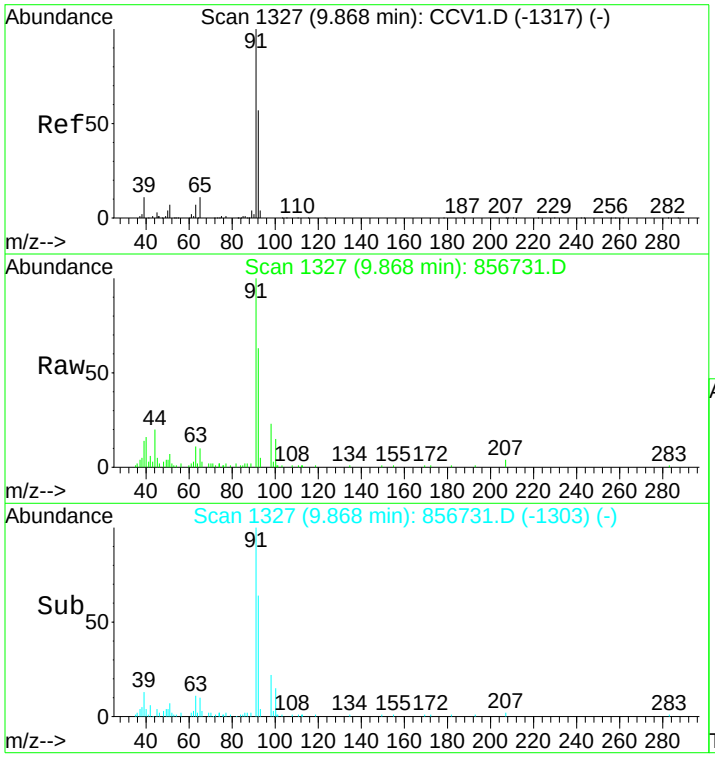


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 399
Delta R.T. 0.00 min
Lab File: 856731.D
Acq: 28 Apr 2017 5:51

Tgt Ion:142 Resp: 4835

Ion	Ratio	Lower	Upper
142	100		
127	34.8	19.8	59.8
141	0.0	0.0	34.5

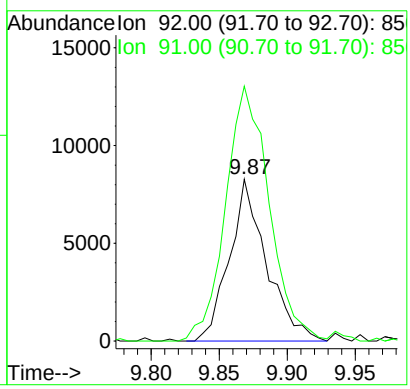


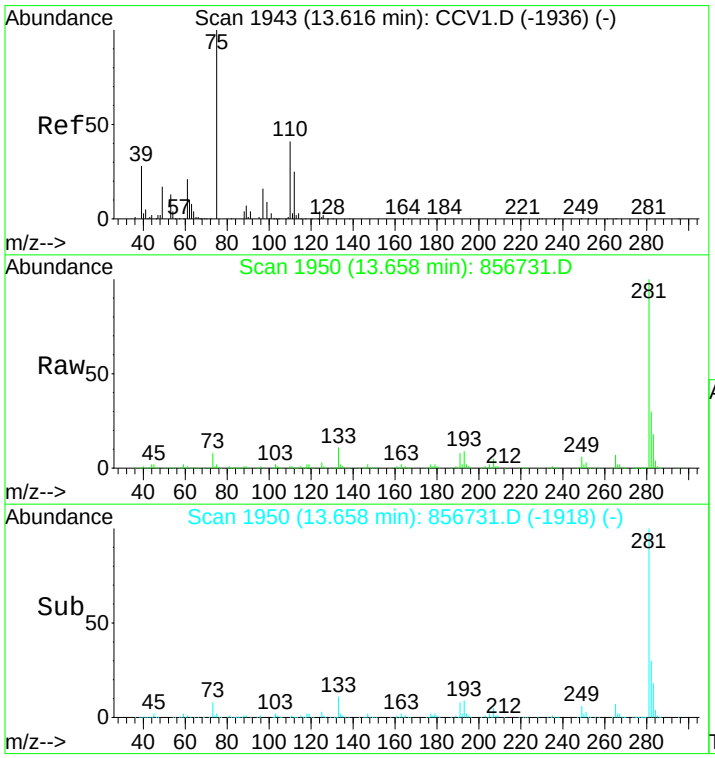


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 856731.D
Acq: 28 Apr 2017 5:51

Tgt Ion: 92 Resp: 15751

Ion	Ratio	Lower	Upper
92	100		
91	184.3	157.1	197.1

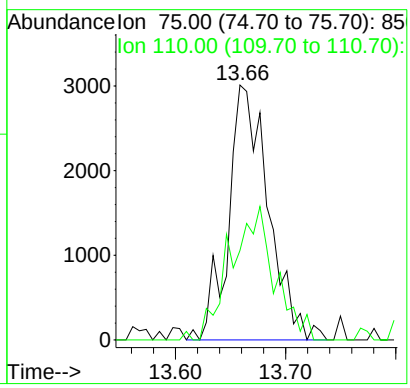




#85
123Triclproa
Concen: 0.00 mg/kg
RT: 13.66 min Scan# 1950
Delta R.T. 0.05 min
Lab File: 856731.D
Acq: 28 Apr 2017 5:51

Tgt Ion: 75 Resp: 7594

Ion	Ratio	Lower	Upper
75	100		
110	58.4	6.2	46.2#



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856734.D Vial: 21
Acq On : 28 Apr 2017 6:20 Operator: RLD-AGK
Sample : 137136,856734, Inst : VMS4
Misc : 6.46g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:26 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	918019	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	750101	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	412404	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	250319	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	58491	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.78	98	922819	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	347474	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	6642	N.D.		
3) Chloromethan	2.11	50	2763	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	1641	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.13	43	86838	0.0227	mg/kg	97
16) Iodomethane	4.22	142	4176	0.0003	mg/kg#	87
17) Carbon Dislf	4.29	76	4077	N.D.		
18) allylchloride	4.55	41	3678	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	11080	Below	Cal	96
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.89	59	5634	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	2563	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.62	43	1461	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	6.39	72	3468	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	6.71	42	4718	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856734.D Vial: 21
Acq On : 28 Apr 2017 6:20 Operator: RLD-AGK
Sample : 137136,856734, Inst : VMS4
Misc : 6.46g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:26 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.42	78	5863	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	9.63	43	2068	N.D.		
61)	Toluene	9.87	92	9930	0.0004	mg/kg	95
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	10.73	43	1580	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	11.71	91	1647	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.91	91	2022	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	1002	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.68	75	4797	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	14.52	105	20597	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	15.57	91	1019	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\APR2717B\856734.D Vial: 21
Acq On : 28 Apr 2017 6:20 Operator: RLD-AGK
Sample : 137136,856734, Inst : VMS4
Misc : 6.46g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:26 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	2232	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

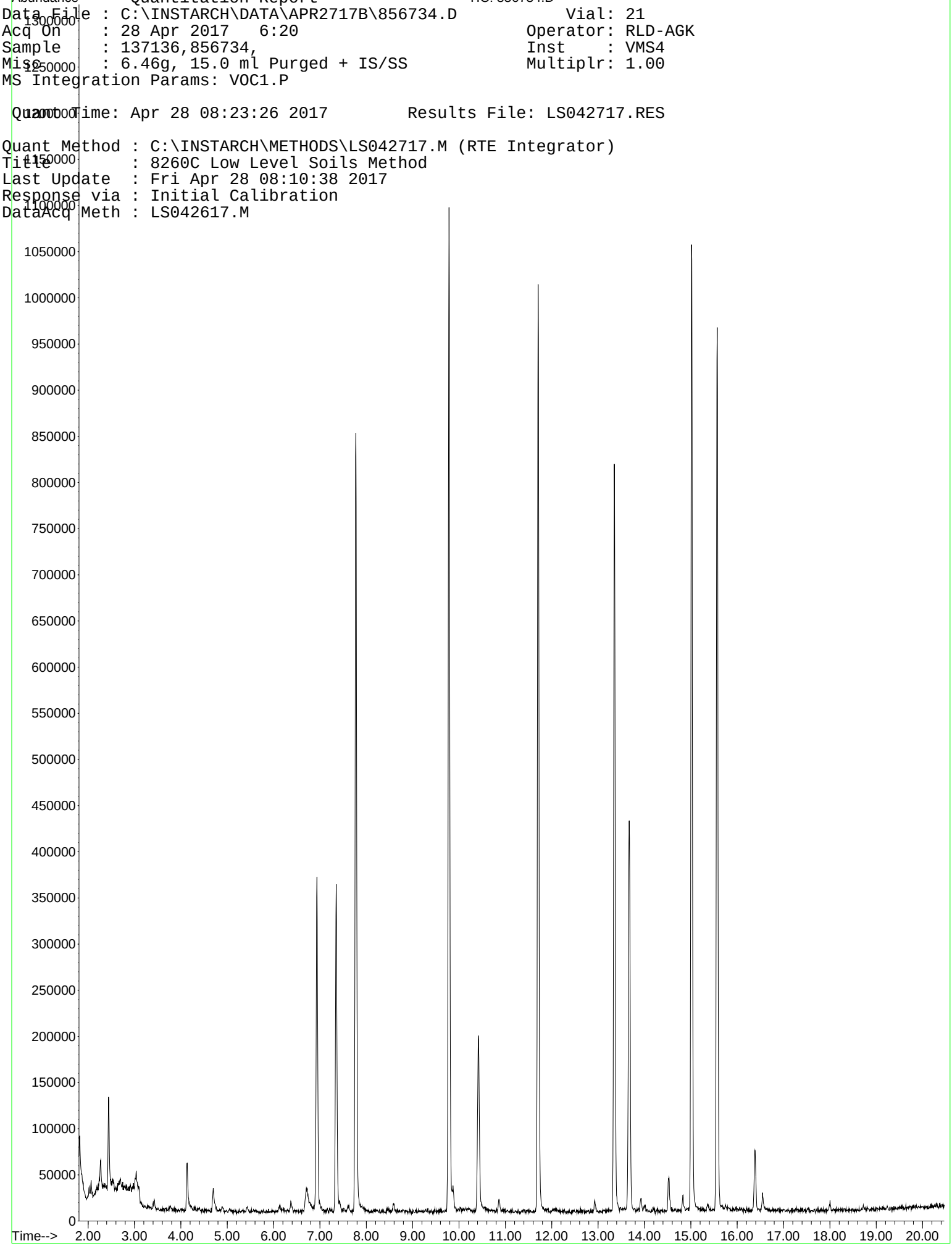
(#) = qualifier out of range (m) = manual integration

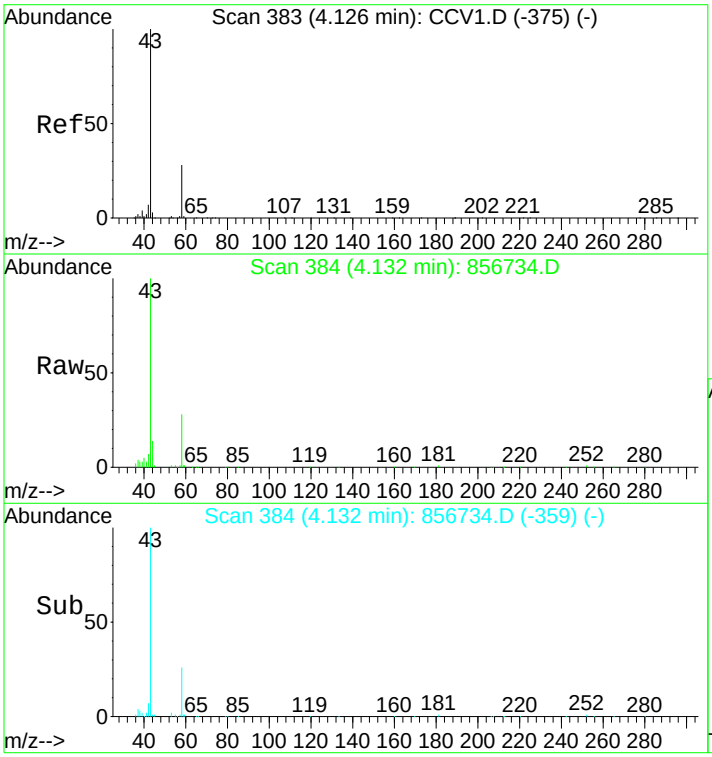
Abundance Quantitation Report TIC: 856734.D

Data File : C:\INSTARCH\DATA\APR2717B\856734.D Vial: 21
Acq On : 28 Apr 2017 6:20 Operator: RLD-AGK
Sample : 137136,856734, Inst : VMS4
Misc : 6.46g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:26 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

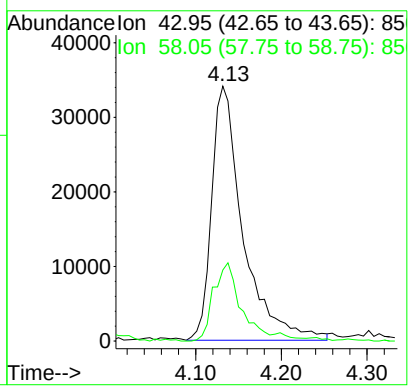


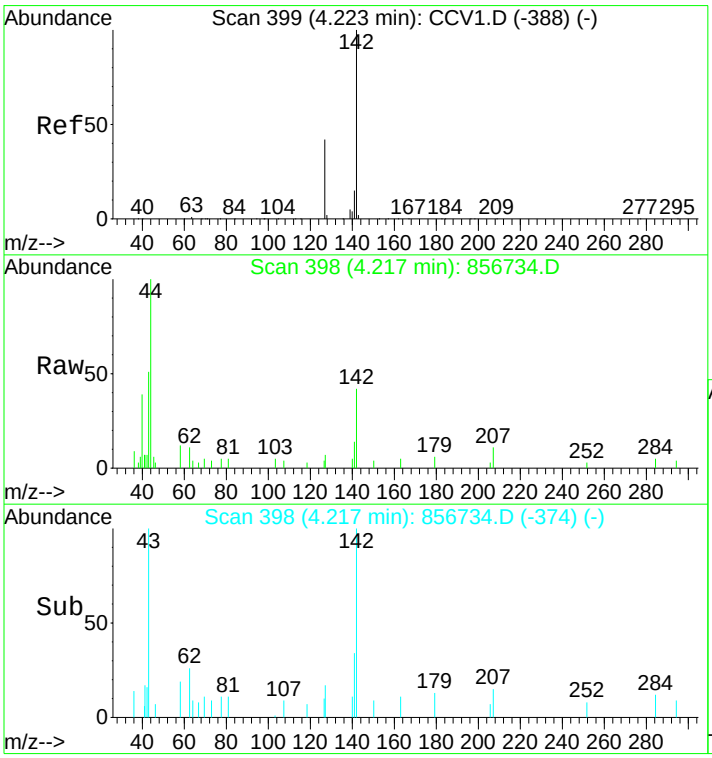


#15
Acetone
Concen: 0.02 mg/kg
RT: 4.13 min Scan# 384
Delta R.T. 0.00 min
Lab File: 856734.D
Acq: 28 Apr 2017 6:20

Tgt Ion: 43 Resp: 86838

Ion	Ratio	Lower	Upper
43	100		
58	28.9	7.4	47.4

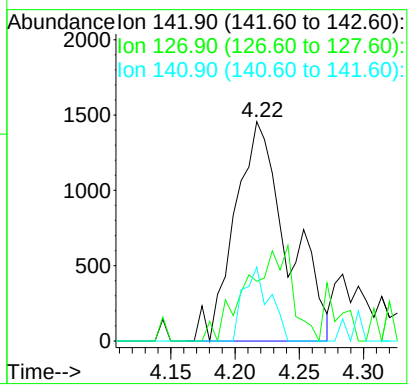


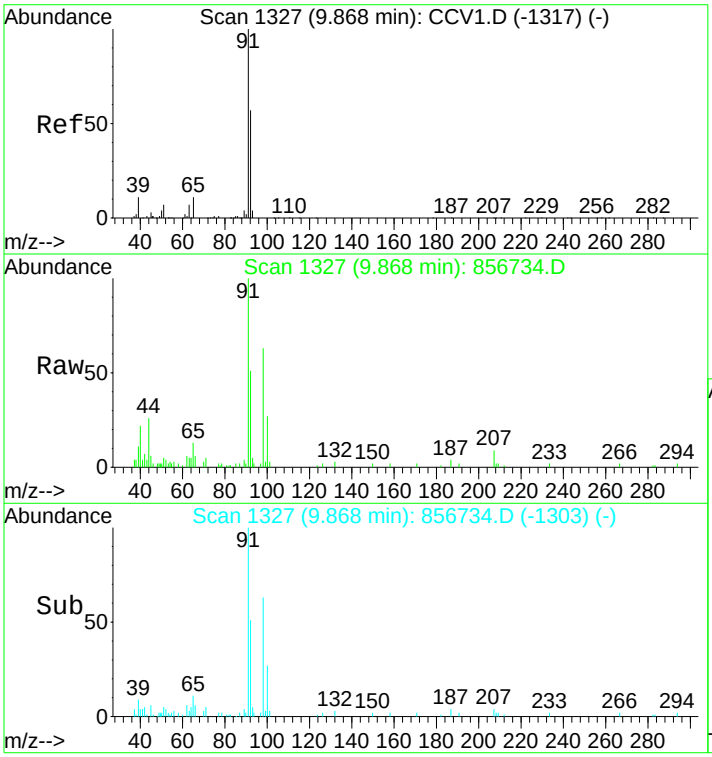


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 398
Delta R.T. -0.00 min
Lab File: 856734.D
Acq: 28 Apr 2017 6:20

Tgt Ion:142 Resp: 4176

Ion	Ratio	Lower	Upper
142	100		
127	37.2	19.8	59.8
141	0.0	0.0	34.5

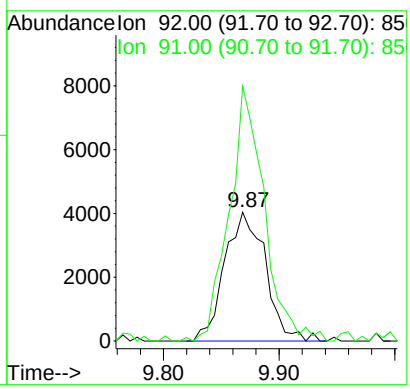




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 856734.D
Acq: 28 Apr 2017 6:20

Tgt Ion: 92 Resp: 9930

Ion	Ratio	Lower	Upper
92	100		
91	169.4	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856737.D Vial: 22
Acq On : 28 Apr 2017 6:49 Operator: RLD-AGK
Sample : 137136,856737, Inst : VMS4
Misc : 6.67g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:42 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	911013	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	731196	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	395356	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	241205	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	56053	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	920736	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	347753	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	6143	N.D.		
3) Chloromethan	2.11	50	3054	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	0.00	94	0	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.13	43	71802	0.0189	mg/kg	100
16) Iodomethane	4.22	142	2830	N.D.		
17) Carbon Dislf	4.30	76	2521	N.D.		
18) allylchloride	4.53	41	1172	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	11315	Below	Cal	89
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	5636	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	3235	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	6.72	42	5822	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856737.D Vial: 22
Acq On : 28 Apr 2017 6:49 Operator: RLD-AGK
Sample : 137136,856737, Inst : VMS4
Misc : 6.67g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:42 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.43	78	4708	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	9.64	43	1001	N.D.	
61) Toluene	9.87	92	31405	0.0013 mg/kg	94
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	10.73	43	1269	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	11.71	91	1079	N.D.	
73) 1112Tetclota	0.00	131	0	N.D.	
74) Ethylbenzene	0.00	91	0	N.D.	
75) m p-Xylene	12.07	106	1198	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	13.35	55	1435	N.D.	
83) Bromobenzene	0.00	156	0	N.D.	
84) 1122Tetrclta	0.00	83	0	N.D.	
85) 123Triclproa	13.66	75	2543	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	13.88	105	1248	N.D.	
91) tbutylbenzen	0.00	119	0	N.D.	
92) 124Trimetben	14.53	105	4357	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	15.57	91	1339	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\APR2717B\856737.D Vial: 22
Acq On : 28 Apr 2017 6:49 Operator: RLD-AGK
Sample : 137136,856737, Inst : VMS4
Misc : 6.67g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:42 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	2084	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

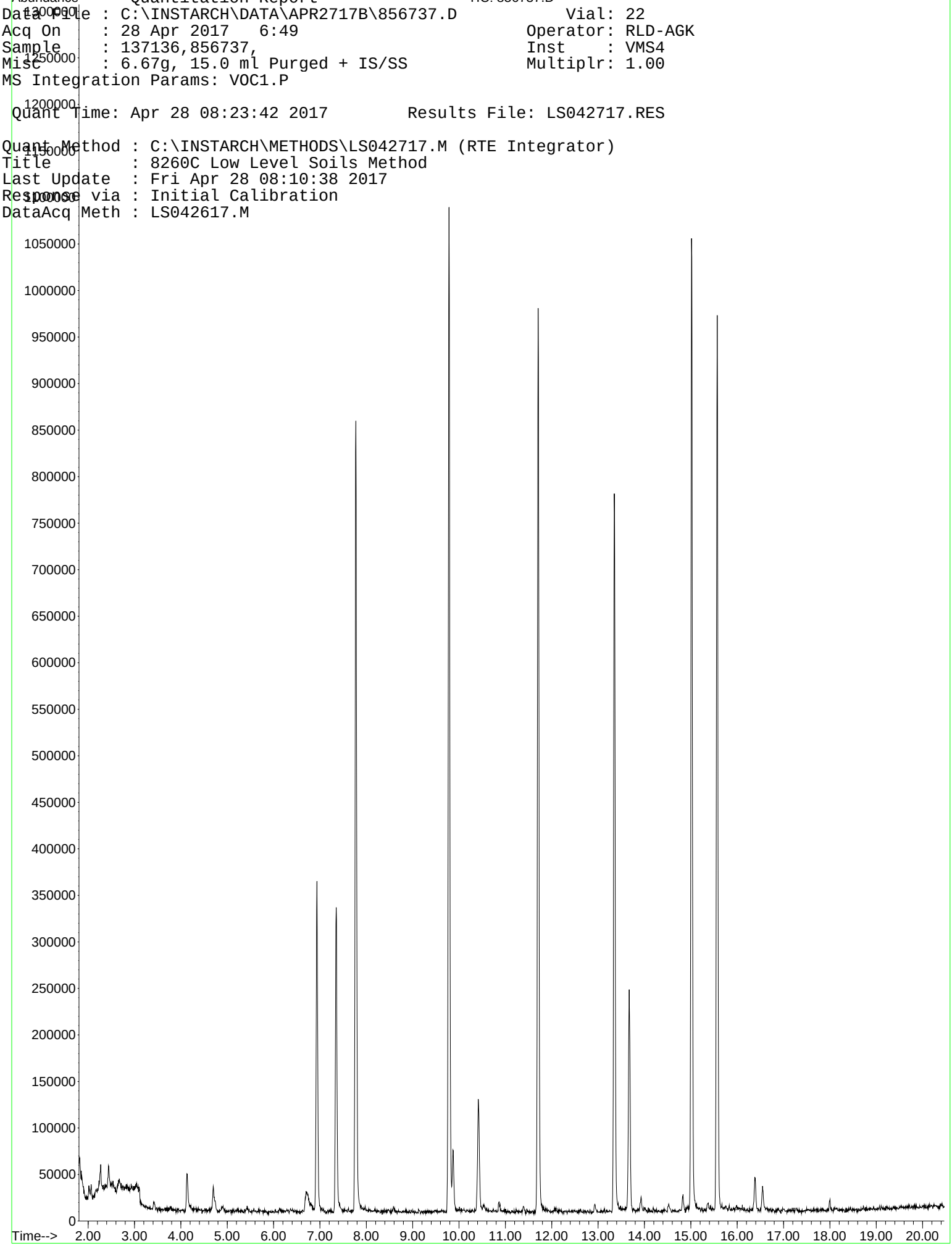
(#) = qualifier out of range (m) = manual integration

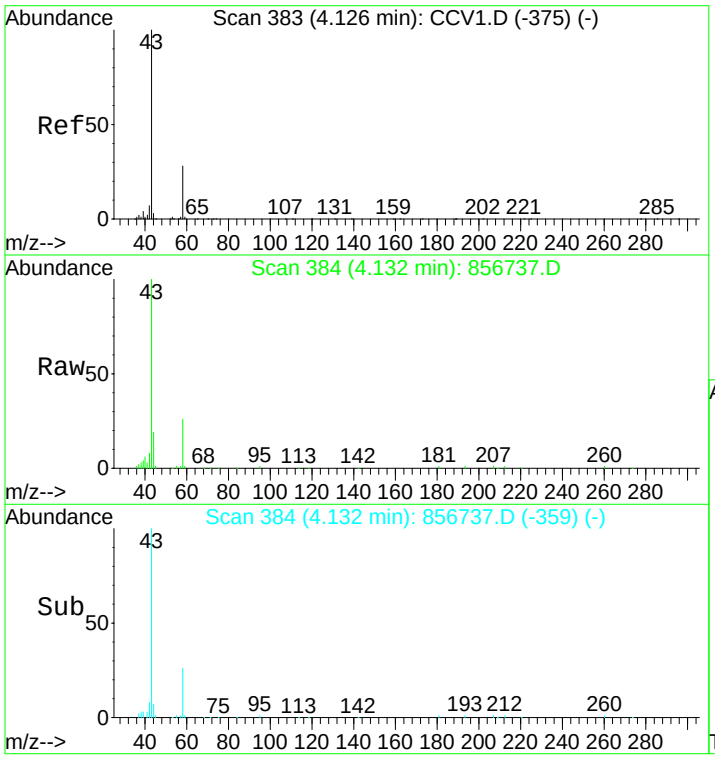
Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856737.D Vial: 22
Acq On : 28 Apr 2017 6:49 Operator: RLD-AGK
Sample : 137136,856737, Inst : VMS4
Misc : 6.67g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:42 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

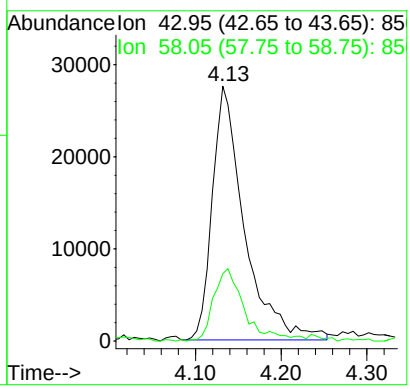


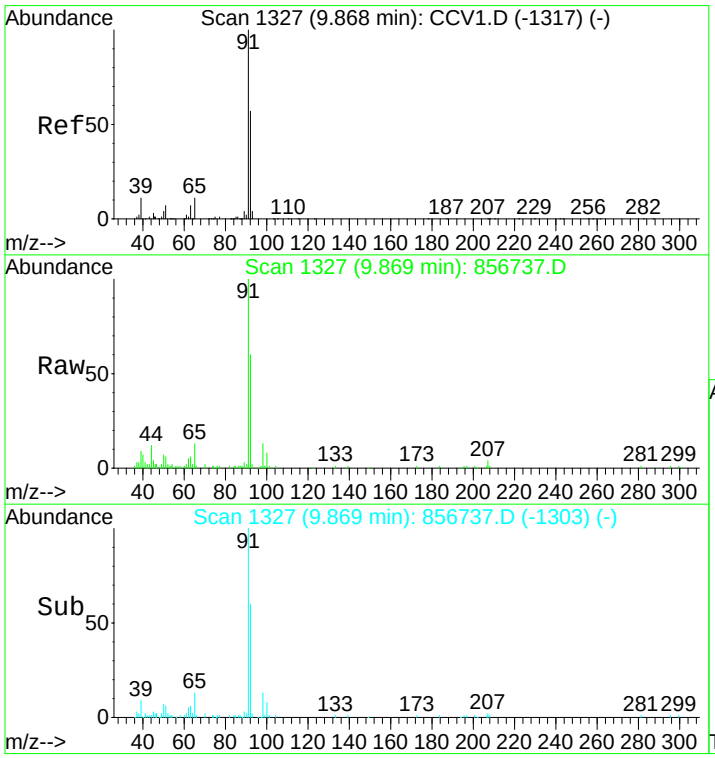


#15
Acetone
Concen: 0.02 mg/kg
RT: 4.13 min Scan# 384
Delta R.T. 0.00 min
Lab File: 856737.D
Acq: 28 Apr 2017 6:49

Tgt Ion: 43 Resp: 71802

Ion	Ratio	Lower	Upper
43	100		
58	27.6	7.4	47.4

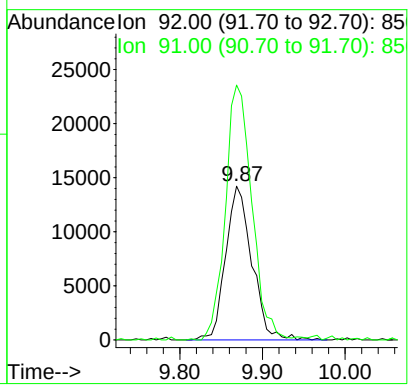




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1327
Delta R.T. -0.00 min
Lab File: 856737.D
Acq: 28 Apr 2017 6:49

Tgt Ion: 92 Resp: 31405

Ion	Ratio	Lower	Upper
92	100		
91	168.6	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856738.D Vial: 23
Acq On : 28 Apr 2017 7:18 Operator: RLD-AGK
Sample : 137136,856738, Inst : VMS4
Misc : 4.24g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:58 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	993904	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	810695	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	442424	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	266098	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	63139	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.78	98	1003725	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	385220	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	6836	N.D.		
3) Chloromethan	2.12	50	3238	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.74	94	1662	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.14	43	95674	0.0231	mg/kg	99
16) Iodomethane	4.22	142	3634	N.D.		
17) Carbon Dislf	4.30	76	3428	N.D.		
18) allylchloride	4.55	41	1443	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	13532	Below	Cal	93
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.89	59	6808	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	2896	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	6.36	72	2626	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	6.72	42	5814	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856738.D Vial: 23
Acq On : 28 Apr 2017 7:18 Operator: RLD-AGK
Sample : 137136,856738, Inst : VMS4
Misc : 4.24g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:58 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.43	78	10120	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	9.15	43	1539	0.0108 mg/kg#	37
58) c13dicloproe	0.00	75	0	N.D.	
59) 4Meth2Pentan	9.63	43	2026	N.D.	
61) Toluene	9.87	92	28190	0.0011 mg/kg	94
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	10.71	43	3854	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	11.71	91	2326	N.D.	
73) 1112Tetclota	0.00	131	0	N.D.	
74) Ethylbenzene	11.90	91	1487	N.D.	
75) m p-Xylene	12.07	106	1302	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	13.35	55	1756	N.D.	
83) Bromobenzene	0.00	156	0	N.D.	
84) 1122Tetrclta	0.00	83	0	N.D.	
85) 123Triclproa	13.67	75	1473	N.D.	
86) 14dichloro2butene	0.00	53	0	N.D.	
87) n-Propylbenz	13.74	91	1054	N.D.	
88) 2chlorotolue	0.00	91	0	N.D.	
89) 4chlorotolue	0.00	91	0	N.D.	
90) 135Trimebenz	13.86	105	1137	N.D.	
91) tbutylbenzen	0.00	119	0	N.D.	
92) 124Trimetben	14.52	105	15714	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	15.57	91	1537	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\APR2717B\856738.D Vial: 23
Acq On : 28 Apr 2017 7:18 Operator: RLD-AGK
Sample : 137136,856738, Inst : VMS4
Misc : 4.24g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:58 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	2175	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

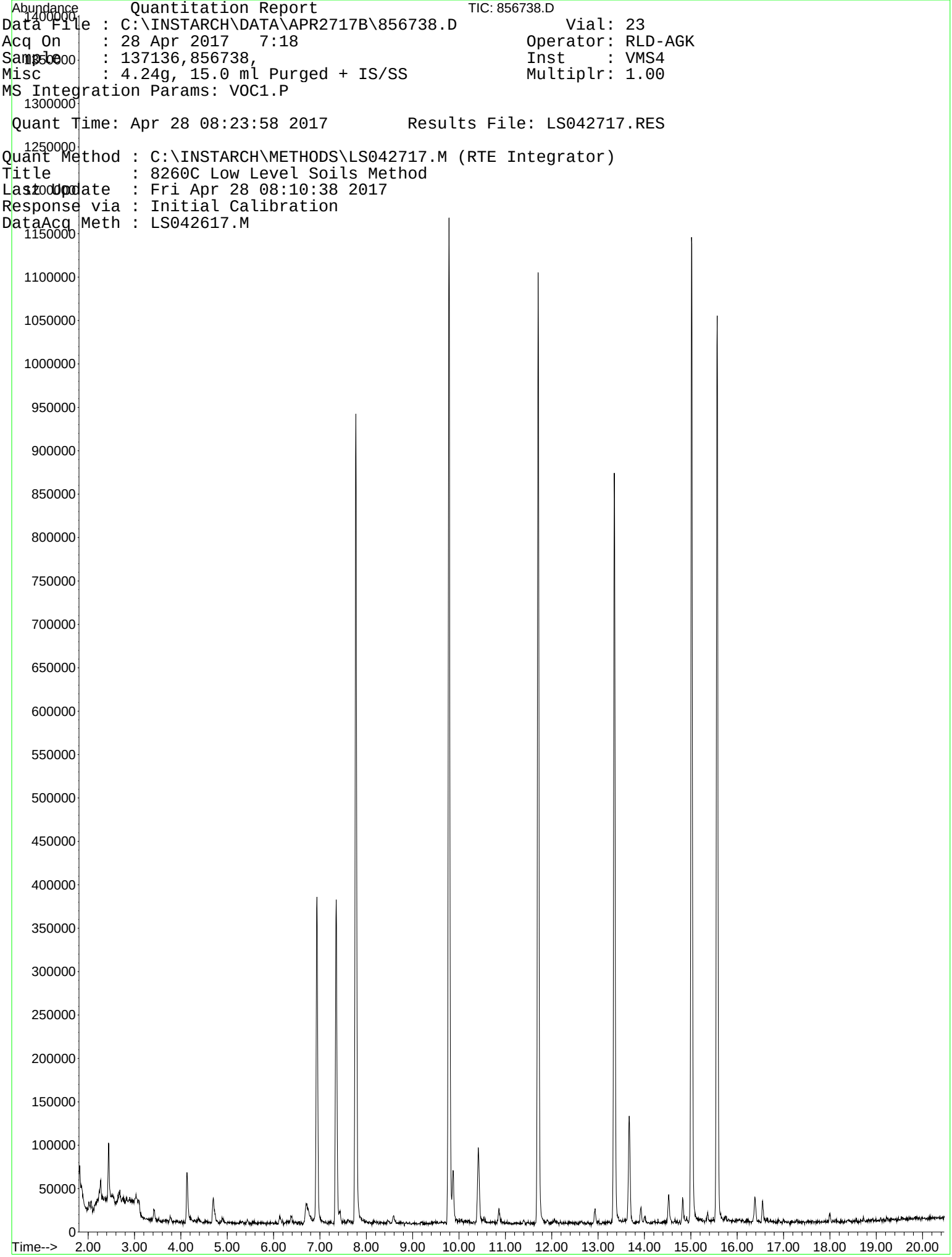
(#) = qualifier out of range (m) = manual integration

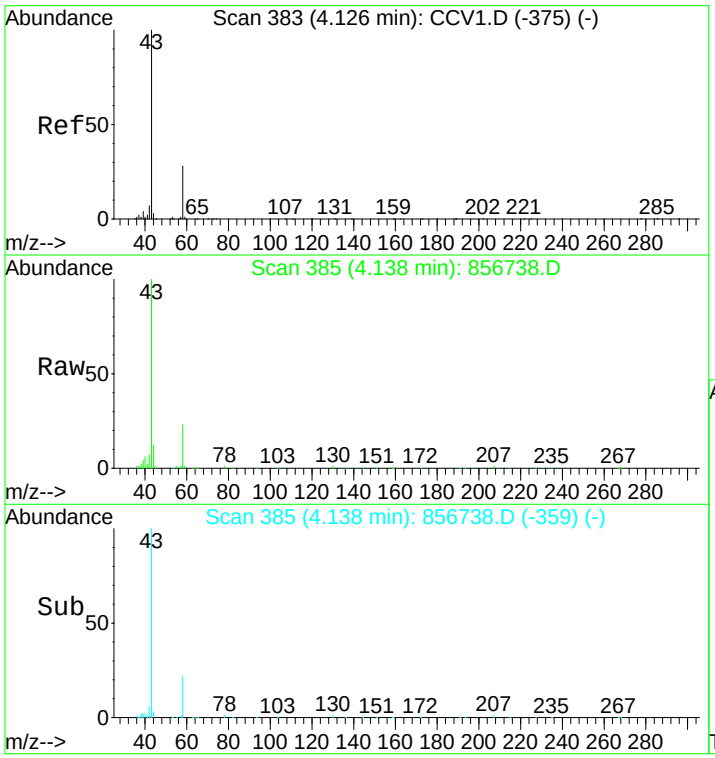
Quantitation Report (TIC: 856738.D)

Data File : C:\INSTARCH\DATA\APR2717B\856738.D Vial: 23
Acq On : 28 Apr 2017 7:18 Operator: RLD-AGK
Sample : 137136,856738, Inst : VMS4
Misc : 4.24g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:23:58 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

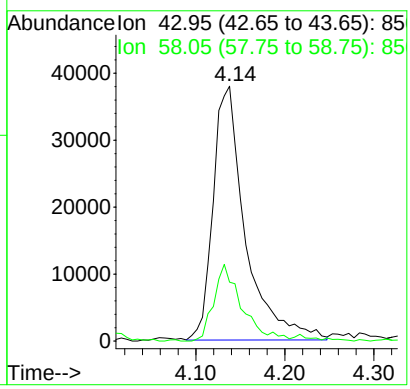


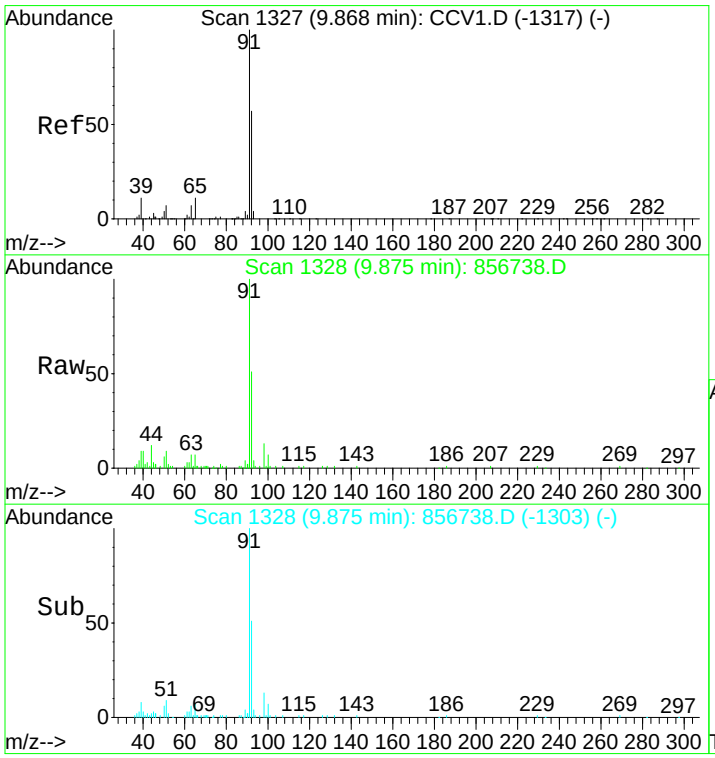


#15
Acetone
Concen: 0.02 mg/kg
RT: 4.14 min Scan# 385
Delta R.T. 0.01 min
Lab File: 856738.D
Acq: 28 Apr 2017 7:18

Tgt Ion: 43 Resp: 95674

Ion	Ratio	Lower	Upper
43	100		
58	27.7	7.4	47.4

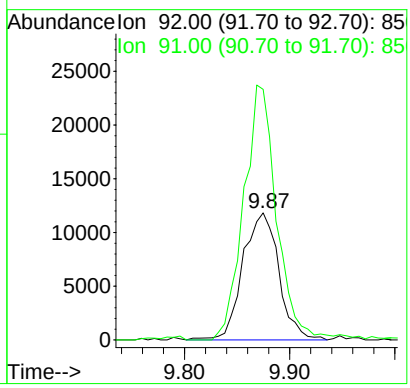




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1328
Delta R.T. 0.00 min
Lab File: 856738.D
Acq: 28 Apr 2017 7:18

Tgt Ion: 92 Resp: 28190

Ion	Ratio	Lower	Upper
92	100		
91	185.4	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856739.D Vial: 31
Acq On : 28 Apr 2017 11:10 Operator: RLD-AGK
Sample : 137137,856739, Inst : VMS4
Misc : 5.33g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:31:36 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1219807	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	976633	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	542490	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	326074	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	73119	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.79	98	1227878	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	471770	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	17089	0.0012	mg/kg	95
3) Chloromethan	2.12	50	3465	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.78	94	1624	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	3.93	56	1058	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.14	43	38634	N.D.		
16) Iodomethane	4.22	142	5465	0.0003	mg/kg#	76
17) Carbon Dislf	4.31	76	2933	N.D.		
18) allylchloride	4.54	41	7232	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	15054	Below	Cal	93
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	8313	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	1745	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.58	43	1406	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	6.38	72	1256	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	6.71	42	9163	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856739.D Vial: 31
Acq On : 28 Apr 2017 11:10 Operator: RLD-AGK
Sample : 137137,856739, Inst : VMS4
Misc : 5.33g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:31:36 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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	7.42	78	6666	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	9.14	43	1226	0.0106 mg/kg#	15
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.63	43	2604	N.D.	
61)	Toluene	9.87	92	31777	0.0010 mg/kg	94
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	10.74	43	3357	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	11.71	91	2556	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.91	91	2187	N.D.	
75)	m p-Xylene	12.07	106	2087	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	13.25	55	1027	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.66	75	2364	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.73	91	1015	N.D.	
88)	2chlorotolue	13.86	91	1011	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	13.85	105	1698	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.53	105	3942	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.98	119	1264	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.59	91	2466	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	17.00	180	1446	N.D.	
101)	124Trichlobe	17.82	180	1518	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856739.D Vial: 31
Acq On : 28 Apr 2017 11:10 Operator: RLD-AGK
Sample : 137137,856739, Inst : VMS4
Misc : 5.33g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:31:36 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	4876	N.D.	
104) 123Trichlben	18.43	180	1418	N.D.	

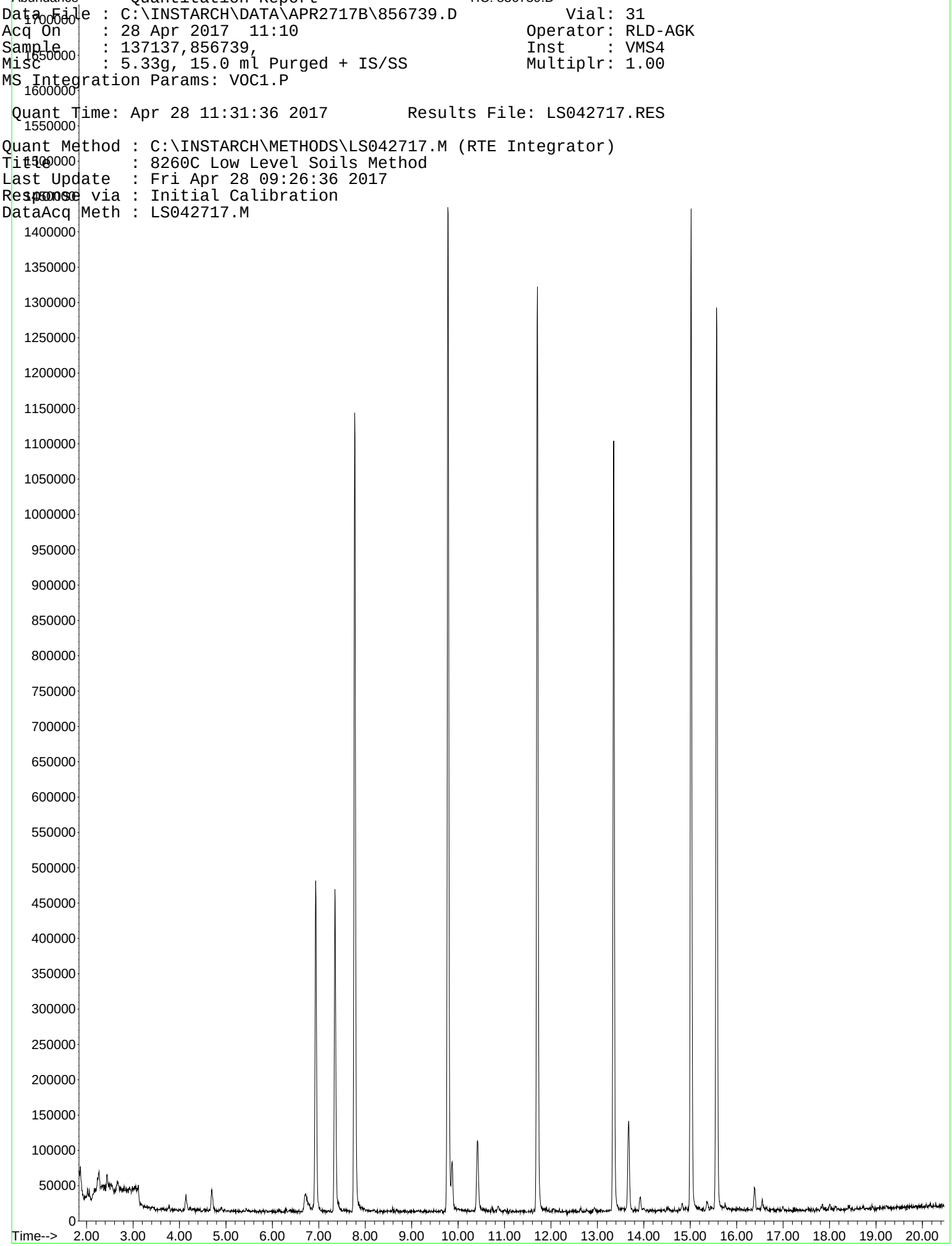
(#) = qualifier out of range (m) = manual integration

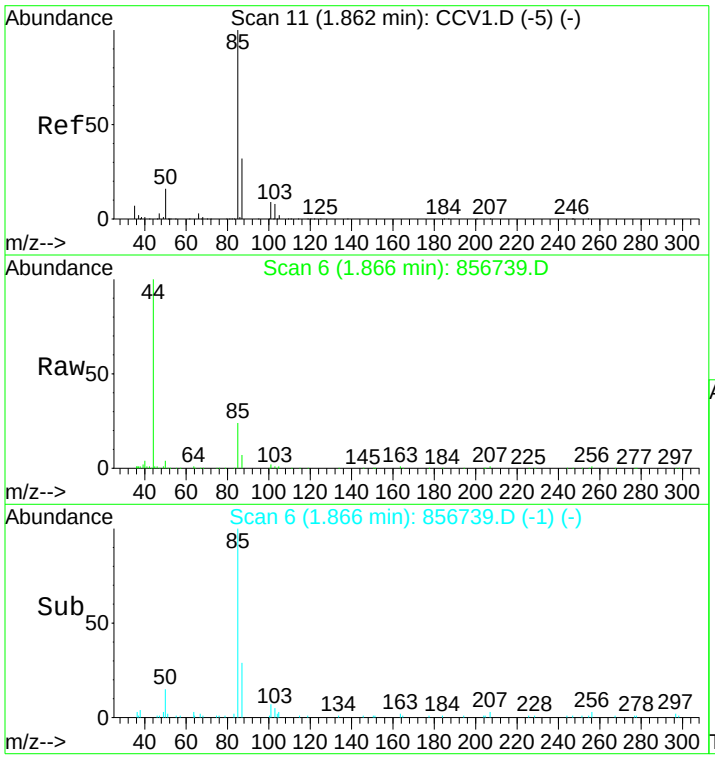
Abundance Quantitation Report TIC: 856739.D

Data File : C:\INSTARCH\DATA\APR2717B\856739.D Vial: 31
Acq On : 28 Apr 2017 11:10 Operator: RLD-AGK
Sample : 137137,856739, Inst : VMS4
Misc : 5.33g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:31:36 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

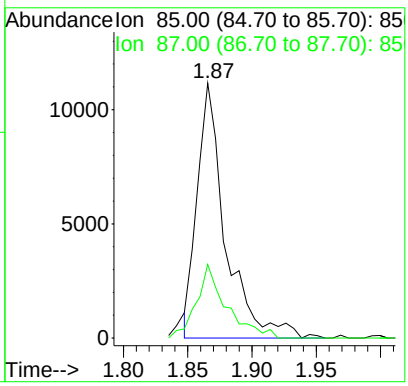


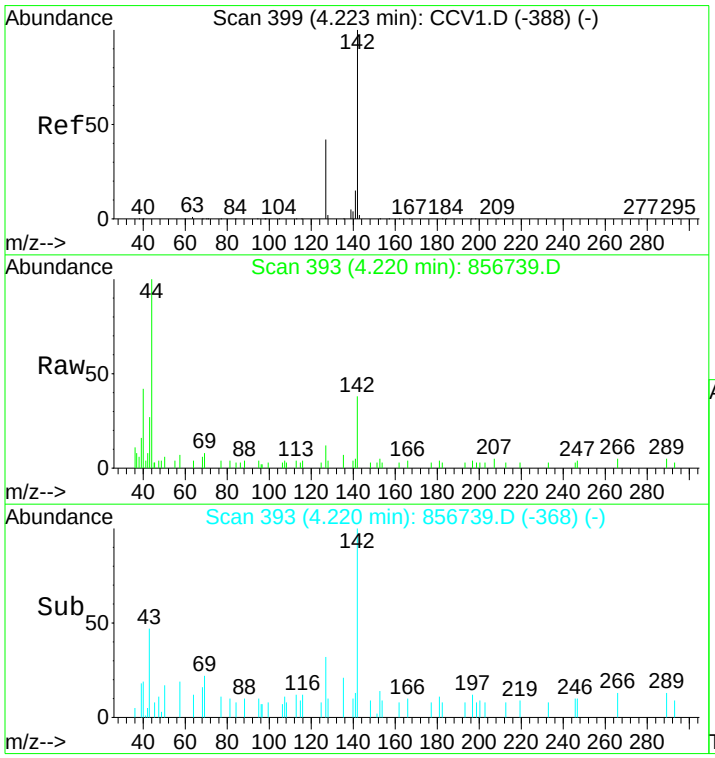


#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: 856739.D
Acq: 28 Apr 2017 11:10

Tgt Ion: 85 Resp: 17089

Ion	Ratio	Lower	Upper
85	100		
87	28.9	11.9	51.9

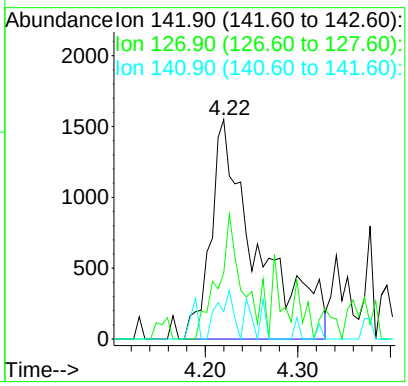


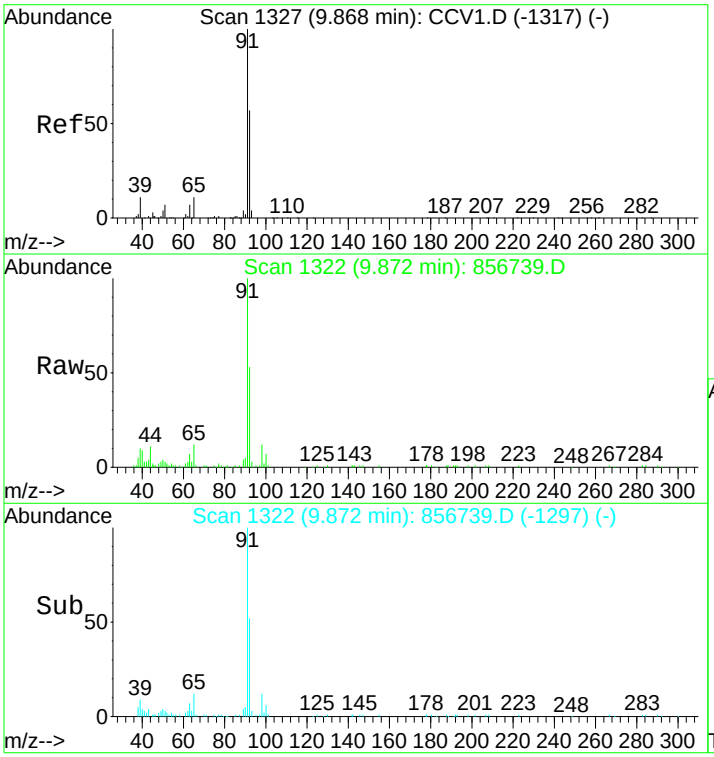


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 393
Delta R.T. 0.00 min
Lab File: 856739.D
Acq: 28 Apr 2017 11:10

Tgt Ion:142 Resp: 5465

Ion	Ratio	Lower	Upper
142	100		
127	27.8	19.8	59.8
141	0.0	0.0	34.5

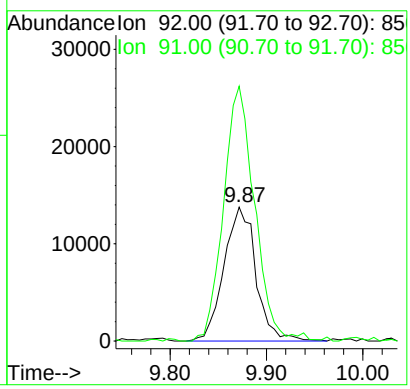




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1322
Delta R.T. 0.00 min
Lab File: 856739.D
Acq: 28 Apr 2017 11:10

Tgt Ion: 92 Resp: 31777

Ion	Ratio	Lower	Upper
92	100		
91	185.6	157.1	197.1



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856740.D Vial: 32
Acq On : 28 Apr 2017 11:39 Operator: RLD-AGK
Sample : 137137,856740, Inst : VMS4
Misc : 5.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 12:00:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1215297	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	988770	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	540265	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	314062	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	74189	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.79	98	1220294	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	471118	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	20730	0.0015	mg/kg	99
3) Chloromethan	2.11	50	4282	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	3831	N.D.		
6) Chloroethane	2.90	64	1041	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	3.30	101	1018	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	3.93	56	1354	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.13	43	183116	0.0362	mg/kg	96
16) Iodomethane	4.21	142	10185	0.0006	mg/kg	97
17) Carbon Dislf	4.29	76	5656	N.D.		
18) allylchloride	4.52	41	4027	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	15597	Below	Cal	93
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.91	59	7341	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	4301	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.75	43	1157	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	6.37	72	7246	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	6.71	42	8250	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856740.D Vial: 32
Acq On : 28 Apr 2017 11:39 Operator: RLD-AGK
Sample : 137137,856740, Inst : VMS4
Misc : 5.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 12:00:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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	7.00	56	1095	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.43	78	12686	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	9.63	43	1300	N.D.	
61)	Toluene	9.87	92	40200	0.0013 mg/kg	97
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	10.74	43	4363	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	11.71	91	2910	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.91	91	1652	N.D.	
75)	m p-Xylene	12.06	106	1263	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	13.24	55	1736	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	2680	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.73	91	1422	N.D.	
88)	2chlorotolue	13.73	91	1266	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	13.98	105	1001	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.53	105	66118	0.0013 mg/kg#	32
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	15.58	91	2595	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	17.82	180	1984	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856740.D Vial: 32
Acq On : 28 Apr 2017 11:39 Operator: RLD-AGK
Sample : 137137,856740, Inst : VMS4
Misc : 5.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 12:00:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	4929	N.D.	
104) 123Trichlben	18.44	180	1700	N.D.	

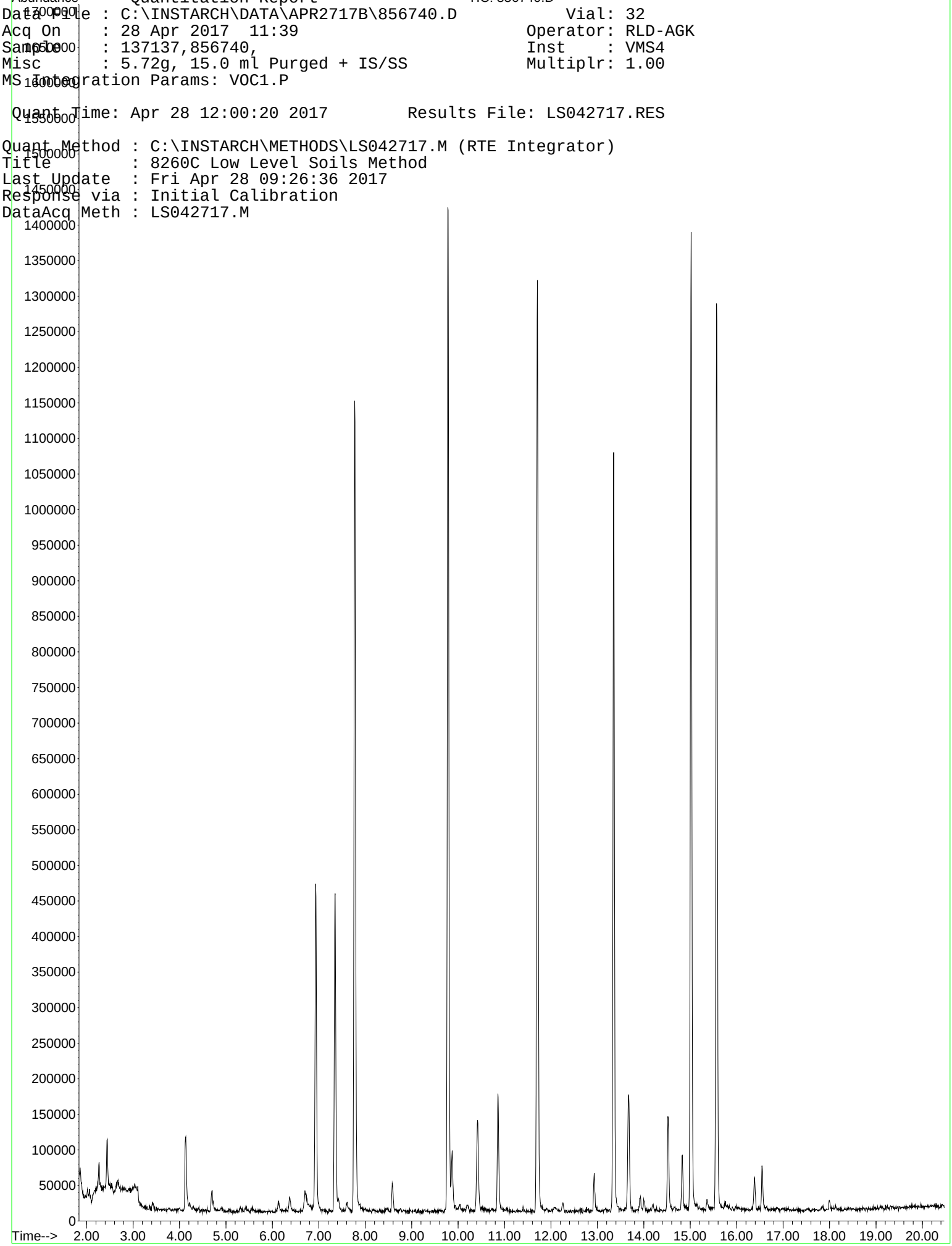
(#) = qualifier out of range (m) = manual integration

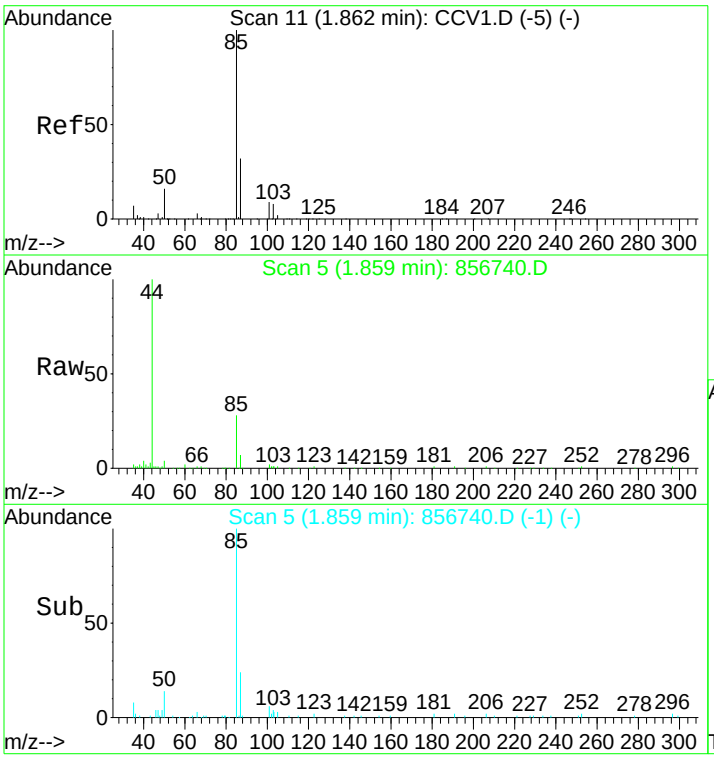
Quantitation Report (TIC: 856740.D)

Data File : C:\INSTARCH\DATA\APR2717B\856740.D Vial: 32
Acq On : 28 Apr 2017 11:39 Operator: RLD-AGK
Sample : 137137,856740, Inst : VMS4
Misc : 5.72g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 12:00:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

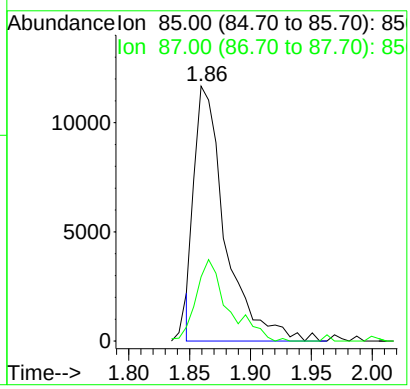


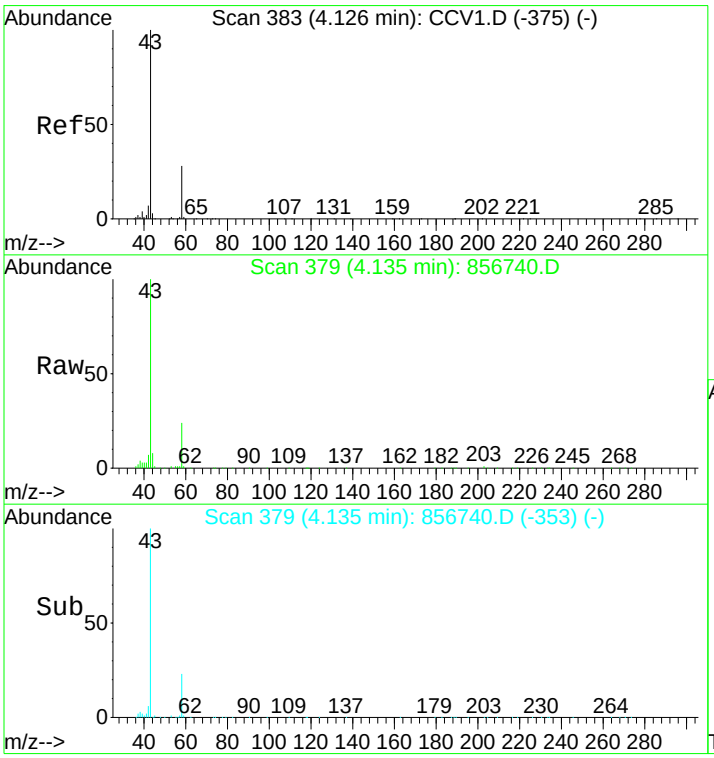


#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.86 min Scan# 5
Delta R.T. -0.01 min
Lab File: 856740.D
Acq: 28 Apr 2017 11:39

Tgt Ion: 85 Resp: 20730

Ion	Ratio	Lower	Upper
85	100		
87	31.4	11.9	51.9

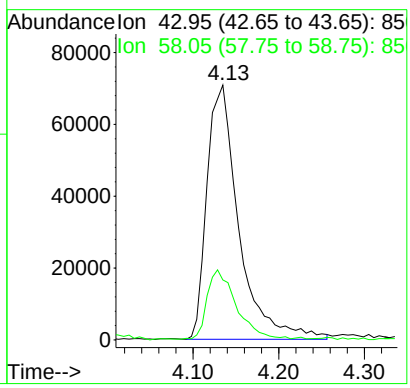


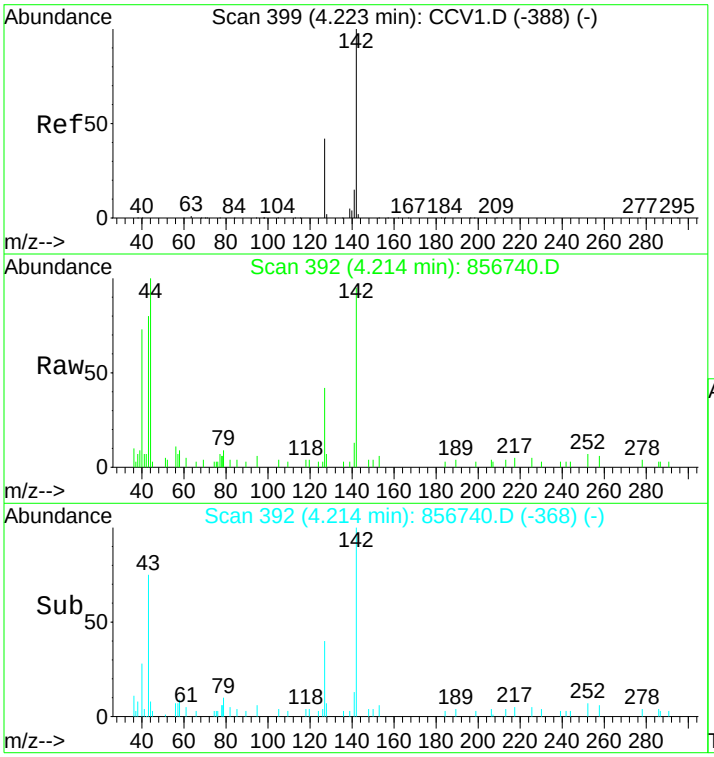


#15
Acetone
Concen: 0.04 mg/kg
RT: 4.13 min Scan# 379
Delta R.T. 0.01 min
Lab File: 856740.D
Acq: 28 Apr 2017 11:39

Tgt Ion: 43 Resp: 183116

Ion	Ratio	Lower	Upper
43	100		
58	25.1	7.4	47.4

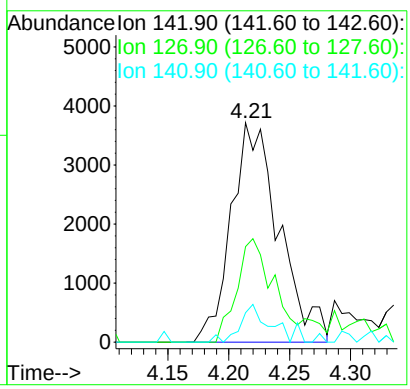


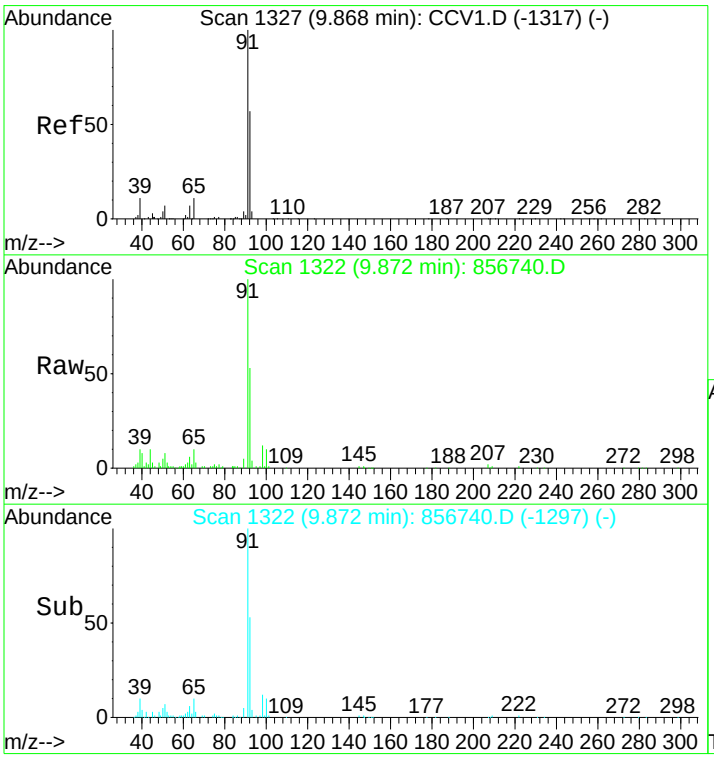


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.21 min Scan# 392
Delta R.T. -0.01 min
Lab File: 856740.D
Acq: 28 Apr 2017 11:39

Tgt Ion:142 Resp: 10185

Ion	Ratio	Lower	Upper
142	100		
127	40.5	19.8	59.8
141	11.2	0.0	34.5

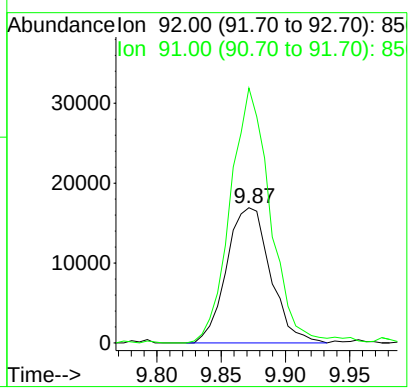


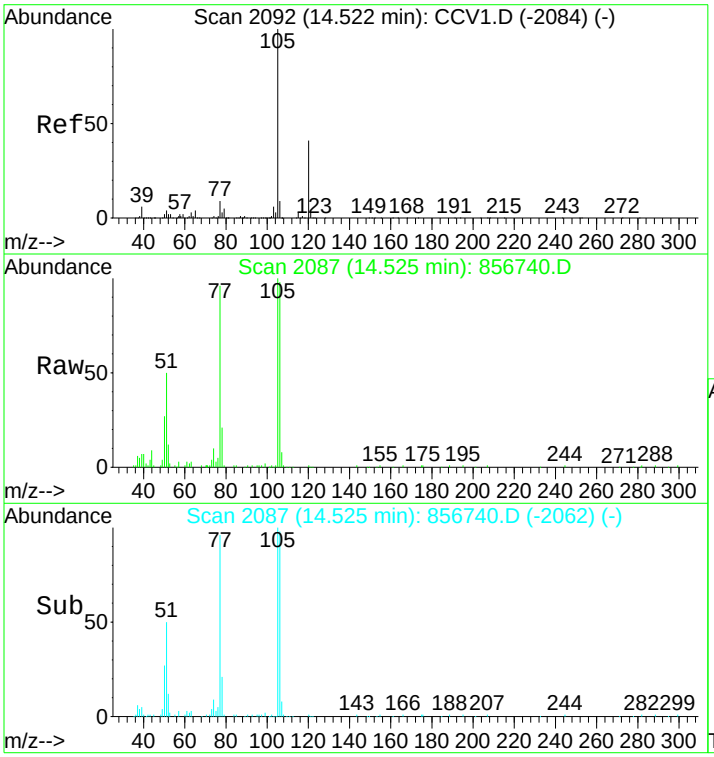


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1322
Delta R.T. 0.00 min
Lab File: 856740.D
Acq: 28 Apr 2017 11:39

Tgt Ion: 92 Resp: 40200

Ion	Ratio	Lower	Upper
92	100		
91	173.2	157.1	197.1

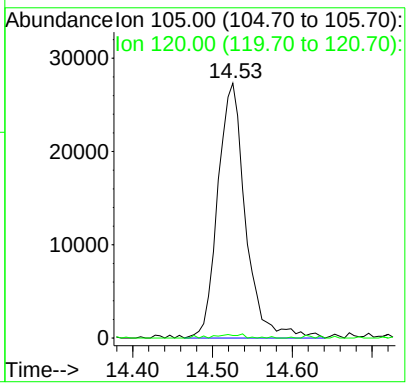




#92
124Trimetben
Concen: 0.00 mg/kg
RT: 14.53 min Scan# 2087
Delta R.T. 0.00 min
Lab File: 856740.D
Acq: 28 Apr 2017 11:39

Tgt Ion:105 Resp: 66118

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.0	64.0#



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856741.D Vial: 33
Acq On : 28 Apr 2017 12:09 Operator: RLD-AGK
Sample : 137137,856741, Inst : VMS4
Misc : 5.83g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 12:29:17 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1228683	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	988232	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	551079	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	325799	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	75397	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.79	98	1229582	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	468618	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	15780	0.0011	mg/kg	97
3) Chloromethan	2.11	50	4435	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	2948	N.D.		
6) Chloroethane	2.90	64	1006	N.D.		
7) dichloroflmethane	0.00	67	0	N.D.		
8) Trichlorofma	3.31	101	1254	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	4.13	43	186020	0.0363	mg/kg	100
16) Iodomethane	4.21	142	9155	0.0005	mg/kg	99
17) Carbon Dislf	4.30	76	2996	N.D.		
18) allylchloride	4.53	41	3330	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	15711	Below	Cal	95
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.92	59	8118	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	5138	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.72	43	1680	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	6.37	72	8414	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	6.71	42	7360	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856741.D Vial: 33
Acq On : 28 Apr 2017 12:09 Operator: RLD-AGK
Sample : 137137,856741, Inst : VMS4
Misc : 5.83g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 12:29:17 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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	7.42	78	11230	0.0007	mg/kg	98
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	9.08	43	1045	0.0106	mg/kg#	15
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.63	43	1704	N.D.		
61)	Toluene	9.87	92	22238	0.0007	mg/kg	98
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	10.73	43	3895	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	11.72	91	2428	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.90	91	1528	N.D.		
75)	m p-Xylene	12.06	106	1433	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	13.35	55	2182	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.66	75	6288	N.D.		
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.73	91	1471	N.D.		
88)	2chlorotolue	13.73	91	1337	N.D.		
89)	4chlorotolue	14.01	91	1159	N.D.		
90)	135Trimebenz	0.00	105	0	N.D.		
91)	tbutylbenzen	0.00	119	0	N.D.		
92)	124Trimetben	14.52	105	44983	0.0009	mg/kg#	32
93)	sbutylbenzen	0.00	105	0	N.D.		
94)	13Diclorbenz	0.00	146	0	N.D.		
95)	pIsopropylto	14.99	119	1521	N.D.		
96)	14dichlorobe	0.00	146	0	N.D.		
97)	12dichlorobe	0.00	146	0	N.D.		
98)	nButylbenzen	15.56	91	2558	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	16.99	180	1007	N.D.		
101)	124Trichlobe	0.00	180	0	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856741.D Vial: 33
Acq On : 28 Apr 2017 12:09 Operator: RLD-AGK
Sample : 137137,856741, Inst : VMS4
Misc : 5.83g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 12:29:17 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.14	128	3346	N.D.	
104) 123Trichlben	18.44	180	1567	N.D.	

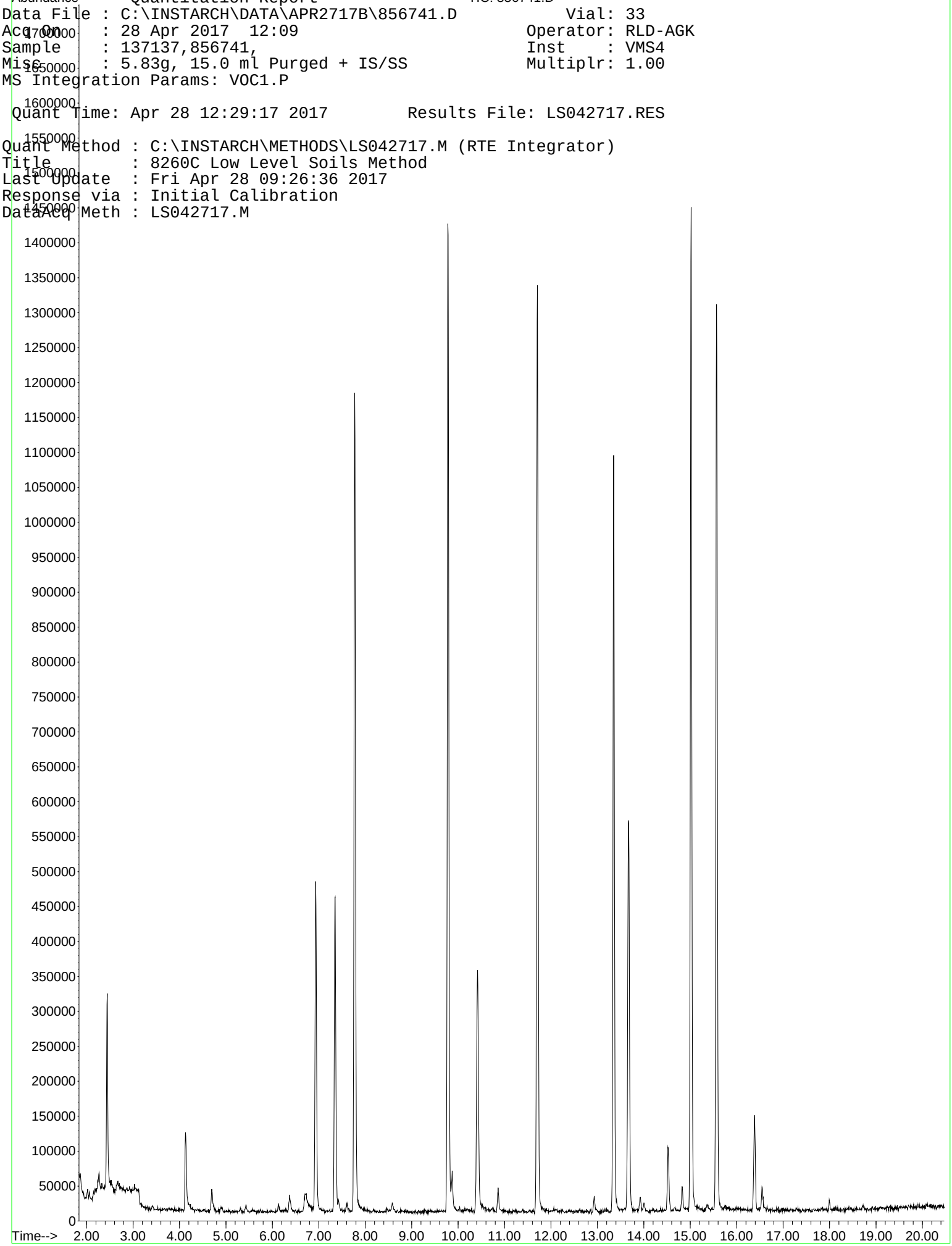
(#) = qualifier out of range (m) = manual integration

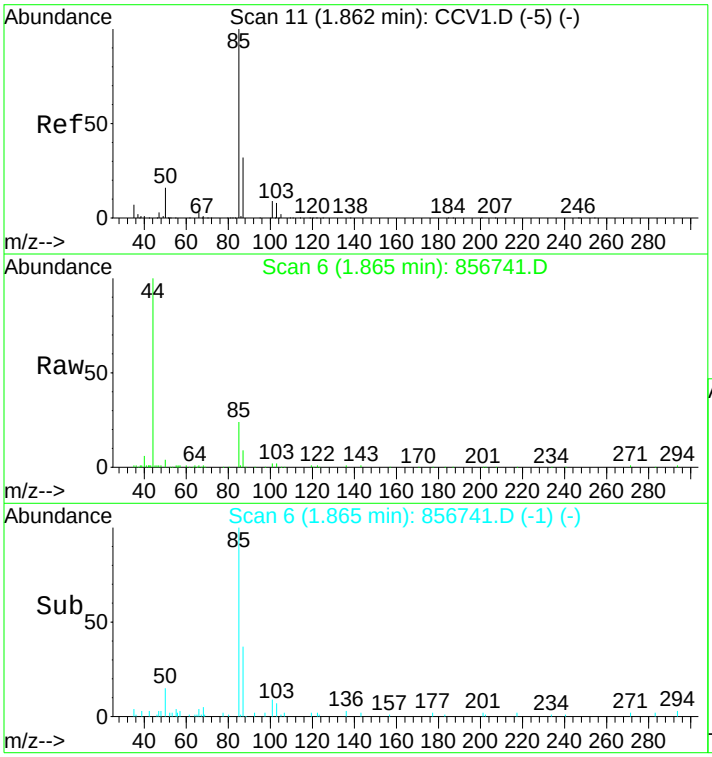
Abundance Quantitation Report TIC: 856741.D

Data File : C:\INSTARCH\DATA\APR2717B\856741.D Vial: 33
Acq On : 28 Apr 2017 12:09 Operator: RLD-AGK
Sample : 137137,856741, Inst : VMS4
Misc : 5.83g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 12:29:17 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

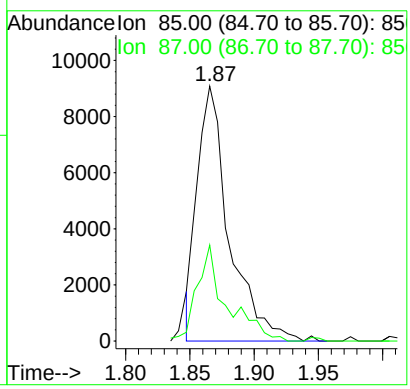


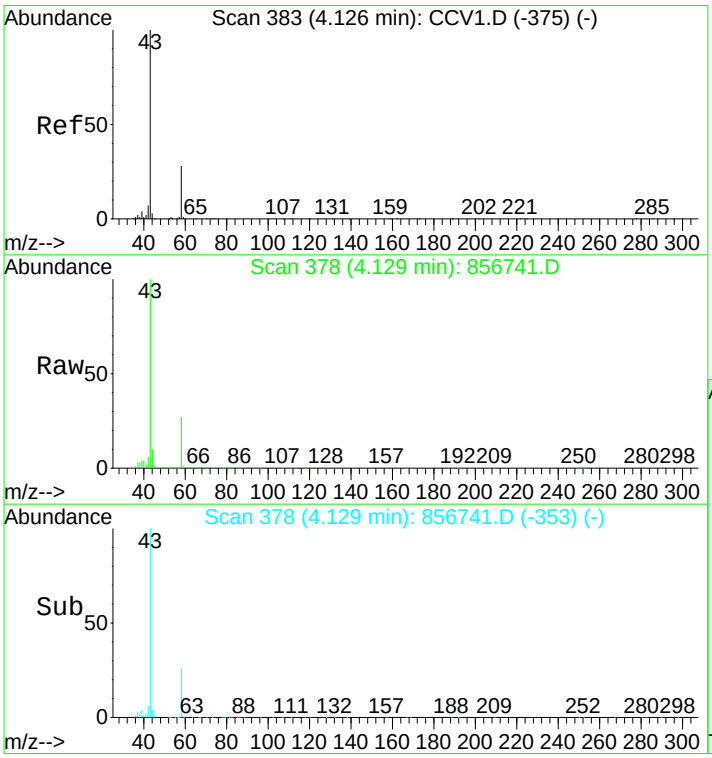


#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: 856741.D
Acq: 28 Apr 2017 12:09

Tgt Ion: 85 Resp: 15780

Ion	Ratio	Lower	Upper
85	100		
87	33.3	11.9	51.9

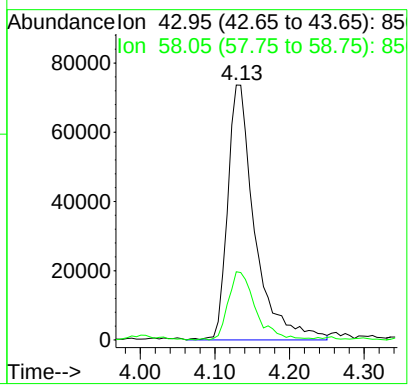


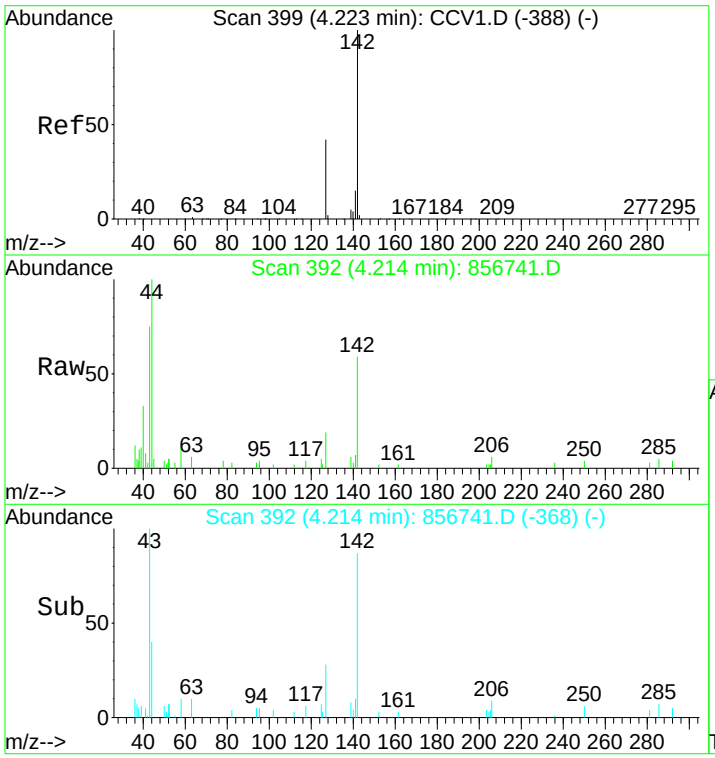


#15
Acetone
Concen: 0.04 mg/kg
RT: 4.13 min Scan# 378
Delta R.T. 0.00 min
Lab File: 856741.D
Acq: 28 Apr 2017 12:09

Tgt Ion: 43 Resp: 186020

Ion	Ratio	Lower	Upper
43	100		
58	27.4	7.4	47.4

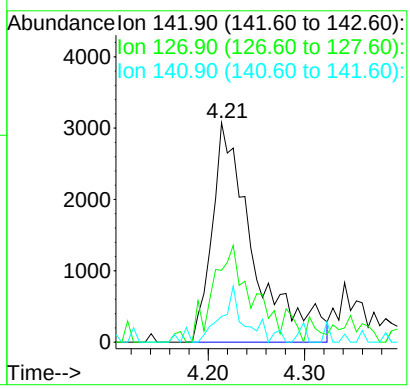


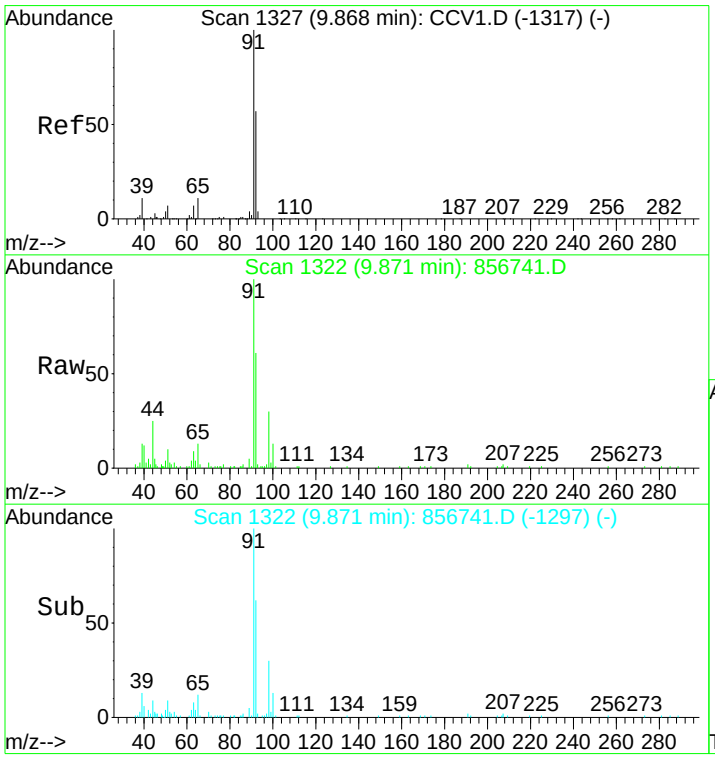


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.21 min Scan# 392
Delta R.T. -0.01 min
Lab File: 856741.D
Acq: 28 Apr 2017 12:09

Tgt Ion:142 Resp: 9155

Ion	Ratio	Lower	Upper
142	100		
127	40.7	19.8	59.8
141	14.5	0.0	34.5

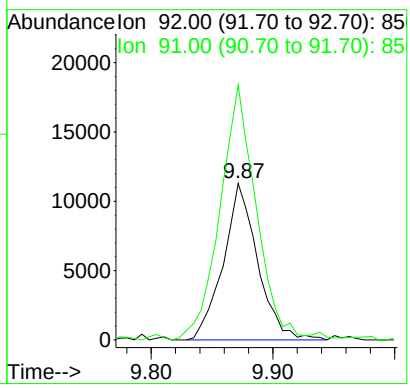


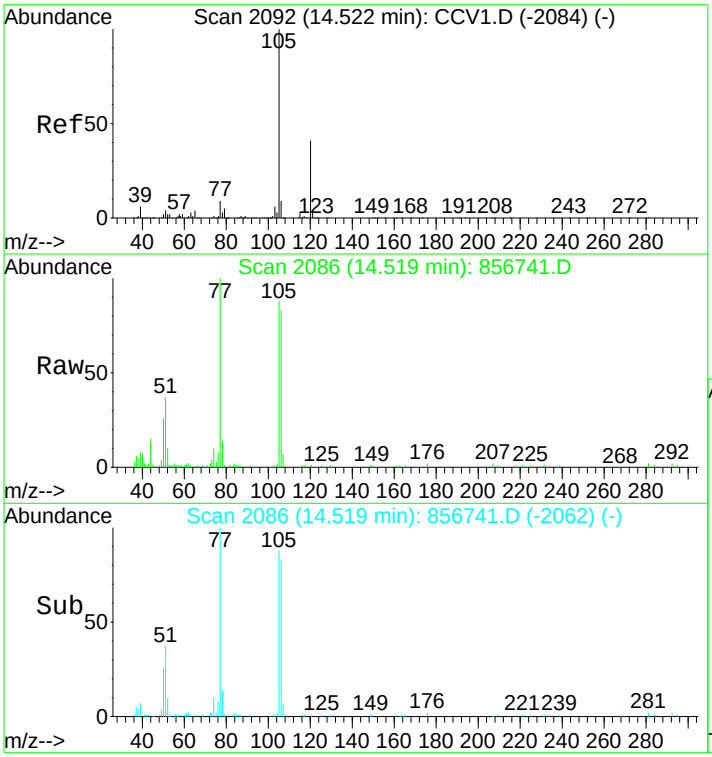


#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1322
Delta R.T. 0.00 min
Lab File: 856741.D
Acq: 28 Apr 2017 12:09

Tgt Ion: 92 Resp: 22238

Ion	Ratio	Lower	Upper
92	100		
91	173.7	157.1	197.1

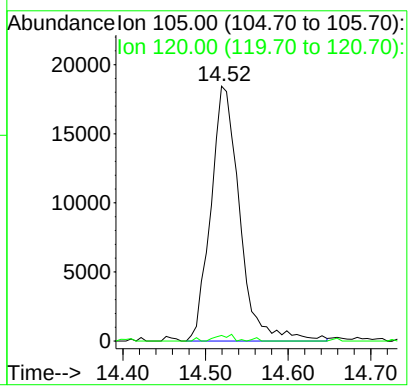




#92
124Trimetben
Concen: 0.00 mg/kg
RT: 14.52 min Scan# 2086
Delta R.T. -0.01 min
Lab File: 856741.D
Acq: 28 Apr 2017 12:09

Tgt Ion:105 Resp: 44983

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.0	64.0#



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856742.D Vial: 34
Acq On : 28 Apr 2017 12:37 Operator: RLD-AGK
Sample : 137137,856742, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 12:58:22 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1235478	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1016872	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	542439	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	329836	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	77456	0.022	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %			
60) SURRd8Tolule	9.78	98	1255141	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	463655	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	18207	0.0013	mg/kg	98
3) Chloromethan	2.11	50	3615	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.75	94	2065	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.13	43	151560	0.0294	mg/kg	99
16) Iodomethane	4.23	142	8667	0.0005	mg/kg	87
17) Carbon Dislf	4.30	76	5801	N.D.		
18) allylchloride	4.52	41	4806	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	17993	Below	Cal	97
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	7169	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.43	57	7463	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.68	43	1454	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	6.37	72	6471	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	6.71	42	7264	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856742.D Vial: 34
Acq On : 28 Apr 2017 12:37 Operator: RLD-AGK
Sample : 137137,856742, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 12:58:22 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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	7.44	78	14977	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	9.63	43	3985	N.D.	
61)	Toluene	9.87	92	36316	0.0011 mg/kg	92
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	10.73	43	2878	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	11.70	91	2727	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.90	91	1216	N.D.	
75)	m p-Xylene	12.07	106	1463	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	0.00	55	0	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	5199	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.72	91	1002	N.D.	
88)	2chlorotolue	13.72	91	1002	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	13.85	105	1439	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.52	105	36869	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.99	119	1010	N.D.	
96)	14dichlorobe	0.00	146	0	N.D.	
97)	12dichlorobe	0.00	146	0	N.D.	
98)	nButylbenzen	15.57	91	2629	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	0.00	180	0	N.D.	
101)	124Trichlobe	17.82	180	1593	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856742.D Vial: 34
Acq On : 28 Apr 2017 12:37 Operator: RLD-AGK
Sample : 137137,856742, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 12:58:22 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	3925	N.D.	
104) 123Trichlben	0.00	180	0	N.D.	

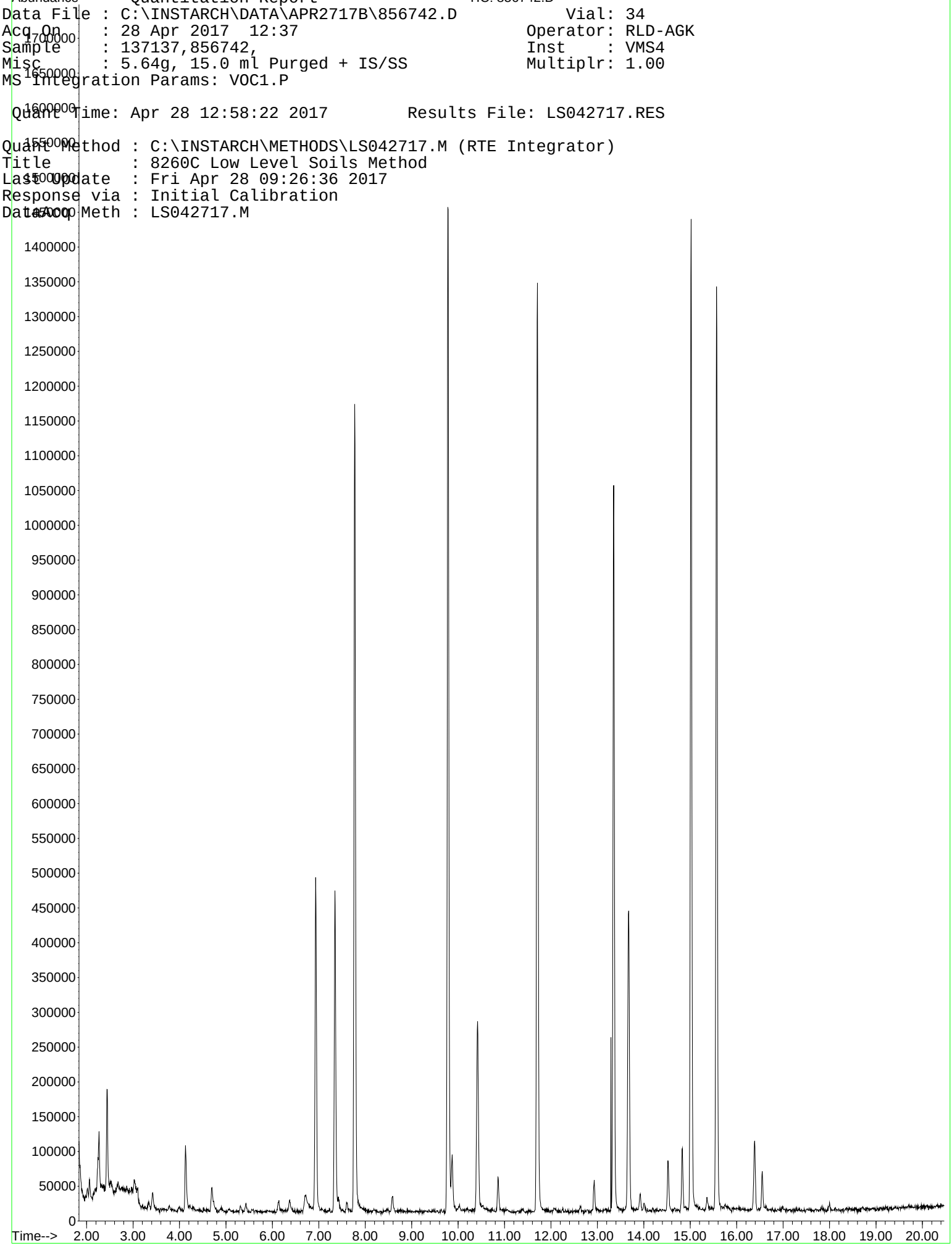
(#) = qualifier out of range (m) = manual integration

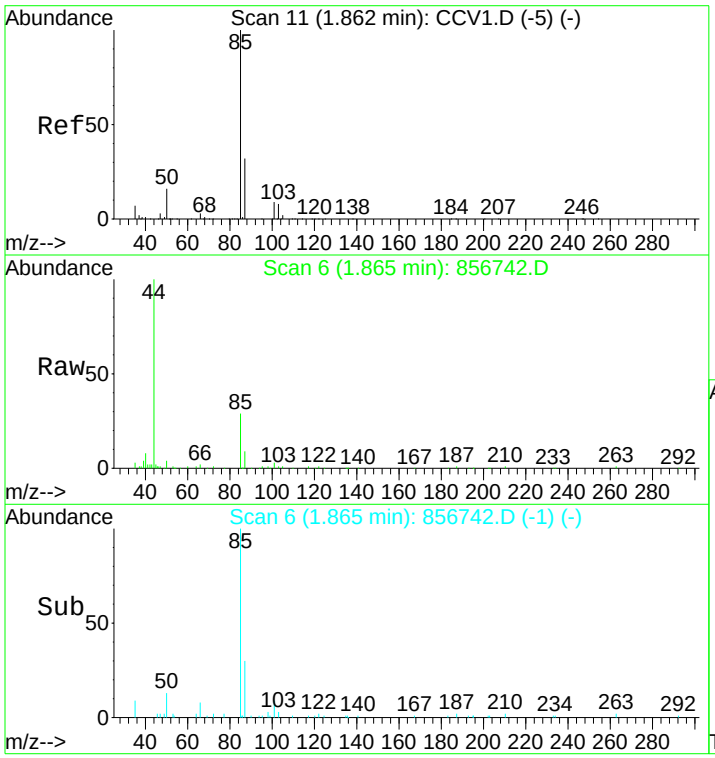
Abundance Quantitation Report TIC: 856742.D

Data File : C:\INSTARCH\DATA\APR2717B\856742.D Vial: 34
Acq On : 28 Apr 2017 12:37 Operator: RLD-AGK
Sample : 137137,856742, Inst : VMS4
Misc : 5.64g, 15.0 ml Purged + IS/SS Multiplr: 1.00
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Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
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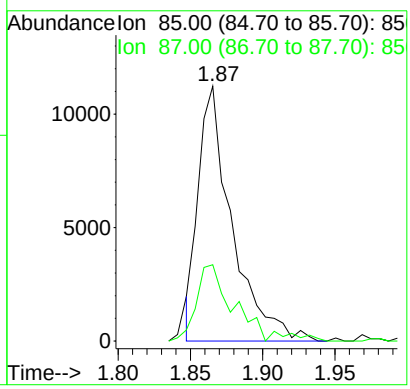


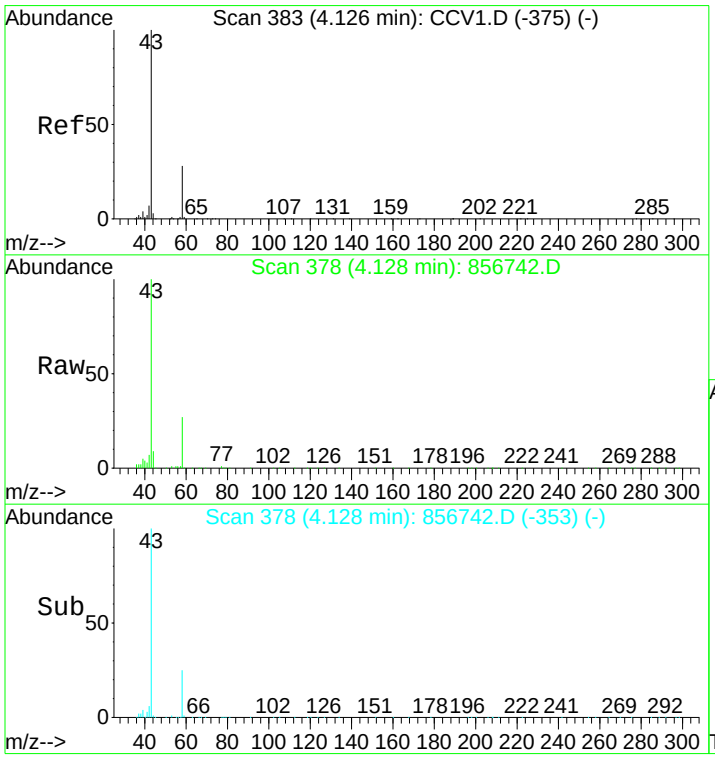


#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: 856742.D
Acq: 28 Apr 2017 12:37

Tgt Ion: 85 Resp: 18207

Ion	Ratio	Lower	Upper
85	100		
87	33.1	11.9	51.9

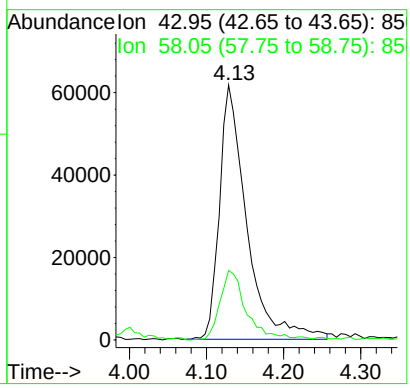


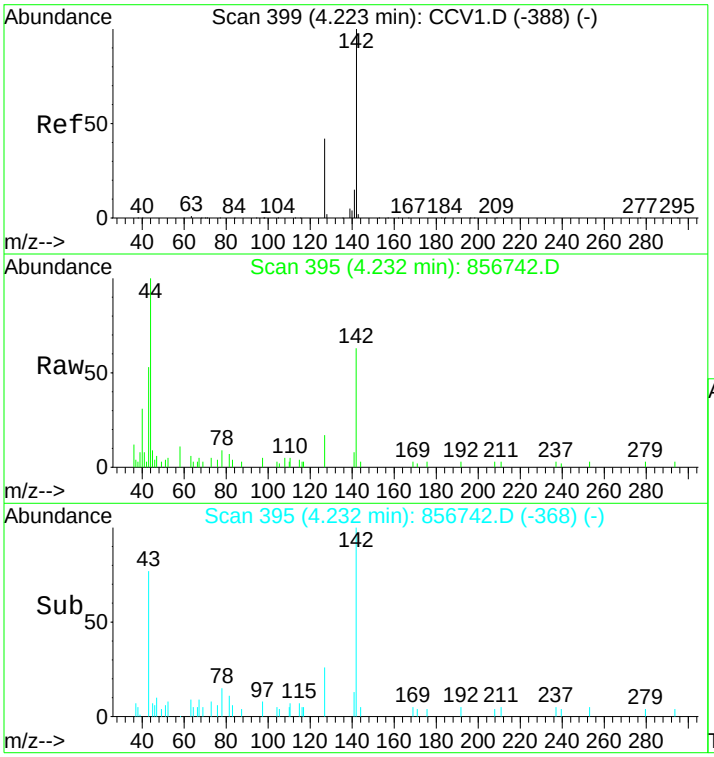


#15
Acetone
Concen: 0.03 mg/kg
RT: 4.13 min Scan# 378
Delta R.T. 0.00 min
Lab File: 856742.D
Acq: 28 Apr 2017 12:37

Tgt Ion: 43 Resp: 151560

Ion	Ratio	Lower	Upper
43	100		
58	26.7	7.4	47.4

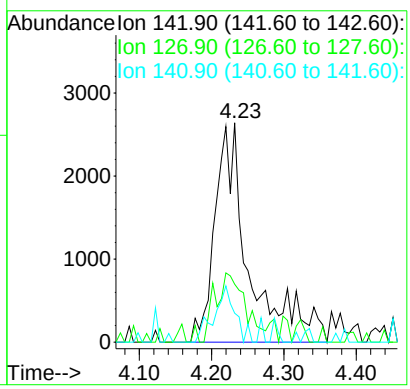


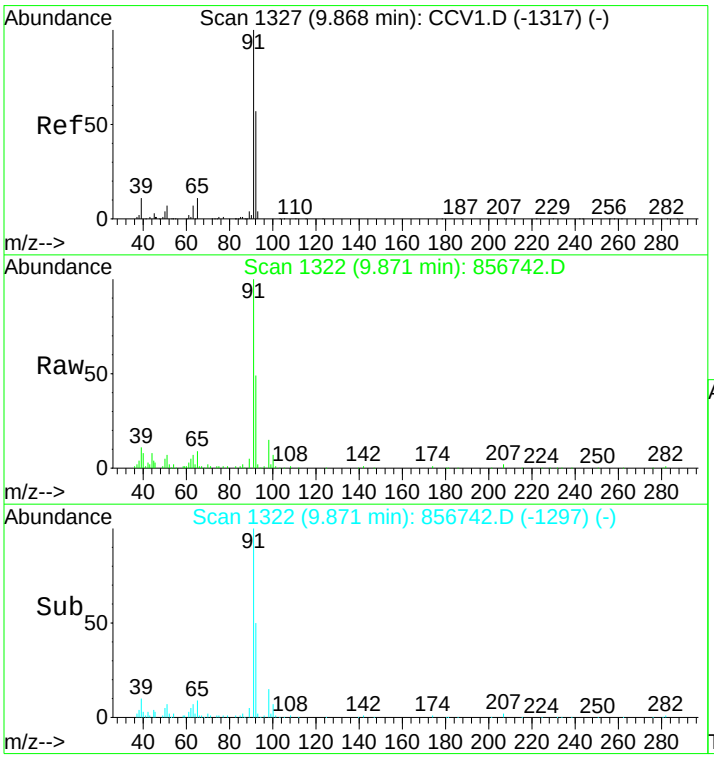


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.23 min Scan# 395
Delta R.T. 0.01 min
Lab File: 856742.D
Acq: 28 Apr 2017 12:37

Tgt Ion:142 Resp: 8667

Ion	Ratio	Lower	Upper
142	100		
127	30.0	19.8	59.8
141	15.8	0.0	34.5

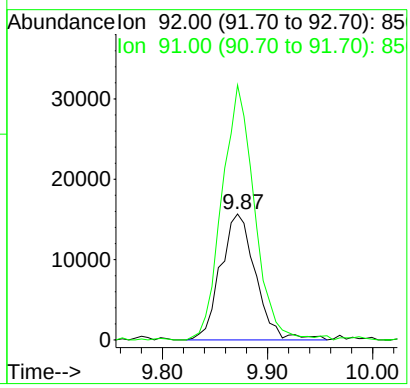




#61
Toluene
Concen: 0.00 mg/kg
RT: 9.87 min Scan# 1322
Delta R.T. 0.00 min
Lab File: 856742.D
Acq: 28 Apr 2017 12:37

Tgt Ion: 92 Resp: 36316

Ion	Ratio	Lower	Upper
92	100		
91	187.9	157.1	197.1



VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Method Path : C:\INSTARCH\METHODS\
Method File : LW040917.M
Title : 8260C Waters Method
Last Update : Mon Apr 10 10:07:15 2017
Response Via : Initial Calibration

RJ04/11/2017

Calibration Files ug/L
1 0.100/1.00 =LLCALW1.D 2 0.500/5.00 =LLCALW2.D 3 1.00/10.00 =LLCALW3.D
4 2.00/20.00 =LLCALW4.D 5 4.00/40.00 =LLCALW5.D 6 6.00/60.00 =LLCALW6.D
7 8.00/80.00 =LLCALW7.D 8 16.00/160 =LLCALW8.D

		Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1)	I	FLUOROBENZENE**ISTD**	----------ISTD----------									
2)	PT	Dichlorodi	0.391	0.343	0.366	0.336	0.301	0.314	0.266	0.329	11.90	
3)	PT	Chloromethan	0.384	0.437	0.435	0.393	0.382	0.383	0.339	0.389	8.64	
4)	PT	VinylChlorid	0.238	0.365	0.369	0.349	0.327	0.336	0.297	0.326	13.03	
5)	PT	Bromomethane	0.147	0.111	0.115	0.101	0.114	0.106	0.108	0.116	12.79	
6)	PT	Chloroethane	0.146	0.201	0.194	0.172	0.177	0.172	0.155	0.173	10.54	
7)	T	Dichloroflmetha	0.549	0.429	0.493	0.392	0.436	0.384	0.399	0.436	13.11	
8)	PT	Trichlorofma	0.419	0.326	0.406	0.321	0.356	0.299	0.305	0.347	12.87	
9)	T	Ethylether	0.142	0.150	0.162	0.164	0.161	0.148	0.161	0.156	5.24	
10)	T	dichlorotfluoro	0.301	0.243	0.299	0.270	0.249	0.231	0.224	0.259	11.27	
11)	T	propyleneoxide	0.014	0.013	0.013	0.014	0.012	0.013	0.014	0.013#	5.46	
12)	T	Acrolein	0.031	0.033	0.030	0.031	0.027	0.028	0.030	0.030#	6.89	
13)	PT	11dichlorthe	0.239	0.222	0.222	0.219	0.206	0.189	0.188	0.212	8.17	
14)	PT	Trichlorotfluor	0.225	0.221	0.222	0.220	0.186	0.175	0.169	0.202	11.39	
15)	PT	Acetone	0.071	0.056	0.052	0.052	0.043	0.043	0.043	-----	#	
			0.038									
								Q	A= -0.000 R=0.999			
									B= 0.045			
									C= 0.014			
16)	T	Iodomethane	0.073	0.098	0.107	0.134	0.178	0.167	0.181	-----		
			0.218									
								Q	A= 0.009 R=0.999			
									B= 0.150			
									C= -0.013			
17)	PT	Carbon Dislf	0.580	0.491	0.493	0.489	0.458	0.432	0.425	0.477	10.50	
			0.444									
18)	T	allylchloride	0.441	0.420	0.417	0.415	0.418	0.416	0.364	0.408	6.40	
			0.372									
19)	PT	methylacetate	0.019	0.021	0.024	0.025	0.020	0.022	0.022	0.022#	9.91	
			0.021									
20)	PT	Methylchlorid	0.620	0.448	0.364	0.289	0.251	0.243	0.223	-----		
			0.221									
								Q	A= -0.002 R=0.999			
									B= 0.221			
									C= 0.027			
21)	T	tbutylalcohol	0.010	0.017	0.012	0.012	0.009	0.011	0.011	-----	#	
			0.010									
								Q	A= -0.000 R=0.996			
									B= 0.012			

C= 0.004

22)	T	Acrylonitrile	0.059	0.060	0.052	0.053	0.047	0.051	0.052	0.053	9.39
			0.046								
23)	PT	t12dichlorte	0.292	0.250	0.233	0.234	0.225	0.230	0.208	0.237	10.69
			0.222								
24)	PT	MtBE	0.440	0.469	0.448	0.452	0.418	0.448	0.436	0.442	3.73
			0.423								
25)	T	Hexane	0.287	0.318	0.358	0.351	0.315	0.344	0.293	0.325	8.09
			0.337								
26)	PT	11dichlorota	0.524	0.503	0.493	0.475	0.480	0.486	0.435	0.480	6.07
			0.445								
27)	T	Vinylacetate	0.261	0.321	0.316	0.352	0.340	0.364	0.345	0.320	12.32
			0.262								
28)	T	chloroprene	0.410	0.446	0.456	0.454	0.431	0.447	0.394	0.431	5.37
			0.414								
29)	T	Diisopether	0.965	0.977	0.976	0.972	0.951	0.994	0.913	0.953	4.18
			0.874								
30)	T	ETBE	0.583	0.644	0.622	0.633	0.620	0.660	0.621	0.626	3.55
			0.623								
31)	T	22dichloropr	0.337	0.304	0.289	0.284	0.282	0.297	0.265	0.295	7.13
			0.299								
32)	PT	c12dichlorte	0.334	0.289	0.279	0.262	0.269	0.275	0.249	0.276	9.66
			0.254								
33)	PT	2Butanone	0.012	0.015	0.013	0.014	0.013	0.013	0.013	0.013#	8.82
			0.012								
34)	T	propionitrile	0.024	0.024	0.020	0.021	0.018	0.019	0.019	0.020#	12.78
			0.017								
35)	T	Ethylacetate	0.003	0.006	0.004	0.005	0.004	0.005	0.005	-----	#
			0.004								

Q A= -0.000 R=0.998
B= 0.005
C= -0.001

36)	T	methacrylonitri	0.068	0.056	0.057	0.056	0.049	0.055	0.055	0.056	10.11
			0.050								
37)	T	Bromochlorma	0.126	0.129	0.123	0.118	0.114	0.115	0.109	0.117	7.10
			0.105								
38)	T	Tetrahydofur	0.064	0.059	0.049	0.052	0.043	0.048	0.048	0.051	14.59
			0.043								
39)	PT	Chloroform	0.563	0.510	0.480	0.448	0.439	0.444	0.404	0.462	11.53
			0.411								
40)	PT	111trichlota	0.435	0.372	0.364	0.365	0.355	0.369	0.329	0.370	8.06
			0.367								
41)	S	SURRDibrflma	0.279	0.273	0.271	0.278	0.271	0.273	0.267	0.272	1.66
			0.267								
42)	PT	Cyclohexane	0.392	0.424	0.444	0.443	0.392	0.422	0.366	0.415	6.87
			0.437								
43)	PT	Carbtetraclo	0.221	0.258	0.284	0.289	0.279	0.302	0.267	0.277	10.37
			0.314								
44)	T	11dicloprope	0.113	0.112	0.125	0.122	0.119	0.121	0.106	0.118	5.54
			0.122								
45)	S	SURR12DCAd4	0.060	0.059	0.054	0.059	0.052	0.051	0.053	0.055	6.15
			0.054								
46)	PT	Benzene	1.102	1.036	1.022	0.997	0.978	0.997	0.893	0.990	7.12
			0.893								
47)	PT	12dichlorota	0.368	0.329	0.321	0.302	0.284	0.294	0.279	0.306	10.50
			0.270								
48)	T	TAME	0.418	0.459	0.445	0.457	0.444	0.494	0.471	0.458	4.98
			0.474								
49)	PT	trichloroete	0.272	0.269	0.244	0.252	0.246	0.250	0.227	0.250	5.84
			0.243								
50)	PT	methylcyclohexa	0.367	0.361	0.379	0.396	0.357	0.387	0.335	0.373	5.97
			0.402								
51)	PT	12dicloropra	0.309	0.304	0.298	0.283	0.284	0.291	0.266	0.288	5.56
			0.267								
52)	T	23Dicl1propene	0.372	0.373	0.356	0.353	0.350	0.365	0.335	0.356	3.68
			0.346								
53)	T	Dibromometha	0.104	0.129	0.129	0.128	0.120	0.120	0.118	0.120	7.07
			0.113								
54)	T	methylmethacryl	0.079	0.099	0.082	0.094	0.084	0.092	0.094	0.090	7.76
			0.093								

```
55) T   14dioxane       0.001 0.001 0.001 0.001 0.001 0.001 0.001 -----  #
                        0.001
                                                          Q  A= -0.000 R=0.995
                                                             B=  0.001
                                                             C=  0.003
56) PT  Bromodiclrma    0.308 0.340 0.311 0.296 0.291 0.313 0.293 0.306   5.41
                        0.293
57) T   2Nitropropane   0.023 0.032 0.025 0.031 0.027 0.034 0.035 0.030  14.34
                        0.034
58) T   2CLEVE          0.031 0.030 0.026 0.030 0.030 0.037 0.038 0.032  13.73
                        0.038
59) PT  c13dicloproe    0.312 0.331 0.319 0.327 0.322 0.350 0.329 0.328   3.48
                        0.335
60) PT  4Meth2Pentan    0.153 0.194 0.165 0.179 0.150 0.168 0.163 0.163  11.07
                        0.135
61) S   SURRd8Tolule    0.995 1.008 0.999 1.007 1.009 1.005 0.987 0.999   1.07
                        0.980
62) PT  Toluene         0.720 0.651 0.635 0.621 0.610 0.625 0.564 0.625   7.73
                        0.576
63) PT  t13Dicloprop    0.223 0.236 0.224 0.233 0.229 0.260 0.249 0.238   5.70
                        0.251
64) T   ethylmethacryla 0.157 0.203 0.176 0.189 0.178 0.209 0.201 0.188   9.15
                        0.194
65) PT  112Triclotha    0.158 0.169 0.150 0.150 0.132 0.143 0.138 0.146   8.91
                        0.132
66) PT  Tetrachlorte    0.316 0.325 0.333 0.303 0.297 0.305 0.270 0.306   6.29
                        0.298
67) T   13Diclorpropa   0.326 0.314 0.290 0.291 0.266 0.285 0.275 0.289   7.53
                        0.265

68) I   d5-CHLOROBENZENE**IST ----------------ISTD---------------------
69) PT  2Hexanone       0.131 0.167 0.141 0.156 0.130 0.147 0.145 0.143  10.04
                        0.124
70) PT  Clorodibrmta    0.209 0.286 0.255 0.255 0.251 0.272 0.268 0.259   9.03
                        0.272
71) PT  12Dibrometha    0.227 0.226 0.194 0.202 0.193 0.205 0.201 0.206   6.52
                        0.199
72) PT  Chlorobenzen    0.991 0.972 0.931 0.890 0.865 0.883 0.826 0.899   6.87
                        0.829
73) T   1Clhexane       0.451 0.366 0.365 0.376 0.358 0.376 0.339 0.378   8.84
                        0.390
74) T   1112Tetclota    0.310 0.308 0.301 0.294 0.294 0.317 0.294 0.304   3.09
                        0.312
75) PT  Ethylbenzene    1.411 1.491 1.481 1.428 1.411 1.424 1.308 1.409   4.69
                        1.320
76) PT  m p-Xylene      0.568 0.579 0.592 0.578 0.568 0.578 0.523 0.566   4.06
                        0.540
77) PT  o-Xylene        0.561 0.571 0.549 0.550 0.558 0.580 0.531 0.556   2.66
                        0.550
78) PT  Styrene         0.792 0.909 0.894 0.919 0.919 0.958 0.887 0.896   5.35
                        0.891
79) PT  Bromoform       0.161 0.187 0.140 0.145 0.139 0.157 0.158 0.156  10.05
                        0.159
80) PT  Isopropylben    1.284 1.365 1.439 1.381 1.379 1.437 1.291 1.364   4.31
                        1.333
81) T   cyclohexanone   0.006 0.007 0.005 0.005 0.004 0.004 0.004 -----  #
                        0.004
                                                          Q  A= -0.000 R=0.997
                                                             B=  0.004
                                                             C=  0.003

82) I   d4-1,4-DICHLOROBENZEN ----------------ISTD---------------------
83) S   SURR4BrFBenz    0.770 0.771 0.758 0.792 0.764 0.777 0.790 0.775   1.55
                        0.779
84) T   Bromobenzene    0.698 0.788 0.697 0.672 0.670 0.701 0.648 0.692   6.25
                        0.662
85) PT  1122Tetrclta    0.517 0.584 0.438 0.454 0.392 0.440 0.431 0.457  14.02
                        0.399
86) T   123Triclproa    0.393 0.482 0.418 0.379 0.331 0.372 0.390 0.390  11.58
                        0.357
```

87)	T	14dichloro2bute	0.073	0.097	0.071	0.079	0.073	0.089	0.092	0.083	12.19
			0.090								
88)	T	n-Propylbenz	2.887	3.051	2.974	2.960	2.837	2.872	2.618	2.852	5.57
			2.619								
89)	T	2chlorotolue	1.801	1.864	1.818	1.729	1.674	1.757	1.602	1.735	5.37
			1.631								
90)	T	4chlorotolue	1.779	2.150	2.004	1.979	1.934	2.014	1.839	1.944	6.09
			1.856								
91)	T	135Trimebenz	1.941	1.982	2.098	2.100	2.054	2.112	1.940	2.025	3.67
			1.970								
92)	T	tbutylbenzen	1.811	1.829	1.834	1.864	1.784	1.892	1.718	1.816	2.90
			1.800								
93)	T	124Trimetben	1.962	2.134	2.107	2.158	2.083	2.182	1.991	2.078	3.94
			2.009								
94)	T	sbutylbenzen	2.432	2.686	2.653	2.713	2.597	2.694	2.449	2.590	4.43
			2.498								
95)	PT	13Diclorbenz	1.374	1.407	1.300	1.291	1.282	1.306	1.230	1.304	4.62
			1.242								
96)	T	pIsopropylto	1.973	2.218	2.225	2.306	2.229	2.349	2.138	2.205	5.15
			2.198								
97)	PT	14dichlorobe	1.264	1.504	1.300	1.284	1.249	1.305	1.221	1.294	6.99
			1.226								
98)	PT	12dichlorobe	1.309	1.475	1.210	1.177	1.130	1.220	1.143	1.223	9.68
			1.123								
99)	T	nButylbenzen	1.839	1.980	1.868	1.953	1.837	1.963	1.825	1.894	3.30
			1.883								
100)	PT	12dibromo3cl	0.078	0.088	0.063	0.070	0.064	0.074	0.075	0.073	11.28
			0.072								
101)	T	135Trichloroben	0.903	0.957	0.874	0.840	0.873	0.944	0.889	0.899	4.29
			0.908								
102)	PT	124Trichlobe	0.712	0.854	0.675	0.699	0.701	0.775	0.743	0.740	7.72
			0.757								
103)	T	Hexachlorobu	0.428	0.438	0.402	0.423	0.403	0.440	0.415	0.424	3.81
			0.443								
104)	T	Naphthalene	0.888	1.300	0.933	1.117	1.025	1.188	1.216	1.097	12.91
			1.110								
105)	T	123Trichlben	0.627	0.752	0.586	0.623	0.598	0.669	0.646	0.642	8.02
			0.637								

Total Average %RSD 7.64

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

LW040917.M Tue Apr 11 09:57:21 2017

BFB

Data File : C:\INSTARCH\DATA\APR0917\BFB1.D Vial: 1
Acq On : 9 Apr 2017 9:18 Operator: RLD-AGK
Sample : BFB INJ Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW040917.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.791 to 4.816 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	5628	PASS
75	95	30	60	43.7	11852	PASS
95	95	100	100	100.0	27109	PASS
96	95	5	9	7.1	1919	PASS
173	174	0.00	2	0.7	183	PASS
174	95	50	100	95.6	25920	PASS
175	174	5	9	8.7	2263	PASS
176	174	95	101	97.1	25164	PASS
177	176	5	9	5.8	1471	PASS

LW040917.M Tue Apr 11 10:13:27 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW1.D Vial: 5
Acq On : 9 Apr 2017 11:01 Operator: RLD-AGK
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 10 07:49:37 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:40:13 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1083107	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	877066	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	492511	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	301920	4.094	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102	%		
45) SURR12DCAd4	7.35	102	64856	4.330	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 108	%		
61) SURRd8Tolule	9.79	98	1077231	3.984	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100	%		
83) SURR4BrFBenz	13.35	95	379003	3.972	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 99	%		
Target Compounds						Qvalue
2) Dichlorodi	1.90	85	10584m	0.1313	ug/L	63
3) Chloromethan	2.14	50	10402m	0.0918	ug/L	93
4) VinylChlorid	2.29	62	6445	0.0730	ug/L #	33
5) Bromomethane	2.75	94	3988	0.1265	ug/L	89
6) Chloroethane	2.92	64	3946m	0.0783	ug/L	92
7) Dichloroflmethane	3.24	67	14865	0.1259	ug/L	98
8) Trichlorofma	3.30	101	11355	0.1208	ug/L	97
9) Ethylether	3.76	59	3838	0.0910	ug/L #	53
10) dichlorotfluoroethan	3.78	67	8156	0.1165	ug/L	96
11) propyleneoxide	3.82	58	3813	1.0495	ug/L	86
12) Acrolein	3.93	56	4187	0.5229	ug/L	82
13) 11dichlorthe	4.04	96	6481	0.1128	ug/L	96
14) Trichlorotfluoroeth	4.06	101	12201	0.2231	ug/L	93
15) Acetone	4.15	43	19210m	1.2624	ug/L	99
16) Iodomethane	4.22	142	3979	0.1016	ug/L	89
17) Carbon Dislf	4.31	76	31431	0.2436	ug/L	99
18) allylchloride	4.54	41	23907	0.2164	ug/L	93
19) methylacetate	4.62	74	504m	0.0792	ug/L #	0
20) Methylchlorid	4.70	84	16784m	0.1698	ug/L #	90
21) tbutylalcohol	4.92	59	14181	4.4971	ug/L	88
22) Acrylonitrile	5.04	53	8015	0.5636	ug/L	91
23) t12dichlorte	5.07	96	7913	0.1234	ug/L #	75
24) MtBE	5.08	73	11925	0.0996	ug/L	89
25) Hexane	5.42	57	15563	0.1766	ug/L	98
26) 11dichlorota	5.60	63	14195	0.1092	ug/L	95
27) Vinylacetate	5.70	43	70610	0.8148	ug/L	98
28) chloroprene	5.73	53	22183	0.1899	ug/L	95
29) Diisopether	5.72	45	26125	0.1013	ug/L	99
30) ETBE	6.17	59	15799	0.0932	ug/L	98
31) 22dichloropr	6.33	77	9121	0.1143	ug/L	87
32) c12dichlorte	6.34	96	9035	0.1208	ug/L	91
33) 2Butanone	6.37	72	3236	0.9044	ug/L	84
34) propionitrile	6.45	54	6506	1.1650	ug/L #	77
35) Ethylacetate	6.46	88	385m	0.3065	ug/L #	0
36) methacrylonitrile	6.63	67	3671	0.2433	ug/L	87
37) Bromochlorma	6.64	128	3415	0.1074	ug/L #	84
38) Tetrahydofur	6.71	42	17359	1.2605	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW1.D Vial: 5
Acq On : 9 Apr 2017 11:01 Operator: RLD-AGK
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 10 07:49:37 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:40:13 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.74	83	15247	0.1218 ug/L		92
40)	111trichlota	6.98	97	11784	0.1178 ug/L		94
42)	Cyclohexane	7.04	56	10623	0.0946 ug/L		90
43)	Carbtetraclo	7.18	119	5983	0.0798 ug/L		99
44)	11dicloprope	7.18	110	3058	0.0960 ug/L	#	89
46)	Benzene	7.44	78	29848	0.1114 ug/L	#	75
47)	12dichlorota	7.45	62	9956	0.1202 ug/L		87
48)	TAME	7.58	73	11327	0.0914 ug/L		96
49)	trichloroete	8.25	95	7358	0.1086 ug/L		98
50)	methylcyclohexane	8.49	83	9946	0.0984 ug/L		95
51)	12dicloropra	8.51	63	8376	0.1074 ug/L	#	93
52)	23Dicl1propene	8.58	75	10079	0.1045 ug/L		98
53)	Dibromometha	8.67	93	2829m	0.0803 ug/L	#	91
54)	methylmethacrylate	8.67	69	2145	0.0883 ug/L		89
55)	14dioxane	8.70	88	1843	7.2956 ug/L	#	45
56)	Bromodiclrma	8.87	83	8345	0.1008 ug/L		93
57)	2Nitropropane	9.15	43	6242	0.7663 ug/L	#	70
58)	2CLEVE	9.25	63	4133m	0.4791 ug/L		93
59)	c13dicloproe	9.43	75	8438	0.0950 ug/L		96
60)	4Meth2Pentan	9.63	43	41425	0.9155 ug/L		96
62)	Toluene	9.87	92	19508	0.1152 ug/L		100
63)	t13Dicloprop	10.15	75	6049	0.0938 ug/L		82
64)	ethylmethacrylate	10.29	69	8483	0.1664 ug/L		94
65)	112Triclotha	10.39	83	4280	0.1079 ug/L		89
66)	Tetrachlorte	10.60	166	8544	0.1032 ug/L		85
67)	13Diclorpropa	10.61	76	8826	0.1128 ug/L		94
69)	2Hexanone	10.73	43	28693	0.8904 ug/L		96
70)	Clorodibrmta	10.91	129	4574	0.0807 ug/L		84
71)	12Dibrometha	11.07	107	4980	0.1103 ug/L		97
72)	Chlorobenzen	11.75	112	21733	0.1103 ug/L	#	67
73)	1Clhexane	11.72	91	9899	0.1196 ug/L	#	29
74)	1112Tetclota	11.86	131	6803	0.1022 ug/L		97
75)	Ethylbenzene	11.91	91	30931	0.1001 ug/L		96
76)	m p-Xylene	12.07	106	24923	0.2009 ug/L		95
77)	o-Xylene	12.63	106	12297	0.1008 ug/L		91
78)	Styrene	12.63	104	17360	0.0884 ug/L		95
79)	Bromoform	12.88	173	3535	0.1035 ug/L		96
80)	Isopropylben	13.14	105	28148	0.0941 ug/L		97
81)	cyclohexanone	13.27	55	2482	2.3501 ug/L	#	85
84)	Bromobenzene	13.56	156	8595	0.1009 ug/L		94
85)	1122Tetrclta	13.56	83	6365	0.1120 ug/L		91
86)	123Triclproa	13.61	75	4842	0.1008 ug/L		83
87)	14dichloro2butene	13.64	53	899	0.0880 ug/L	#	32
88)	n-Propylbenz	13.73	91	35545	0.1012 ug/L		96
89)	2chlorotolue	13.85	91	22176	0.1038 ug/L		99
90)	4chlorotolue	14.00	91	21900	0.0915 ug/L		91
91)	135Trimebenz	13.98	105	23893	0.0958 ug/L		95
92)	tbutylbenzen	14.45	119	22300	0.0997 ug/L		92
93)	124Trimetben	14.53	105	24160	0.0944 ug/L		90
94)	sbutylbenzen	14.77	105	29947	0.0939 ug/L		95
95)	13Diclorbenz	14.93	146	16917	0.1054 ug/L		99
96)	pIsopropylto	14.99	119	24294	0.0895 ug/L		98
97)	14dichlorobe	15.05	146	15567	0.0977 ug/L	#	61
98)	12dichlorobe	15.60	146	16123	0.1070 ug/L	#	66
99)	nButylbenzen	15.58	91	22646	0.0971 ug/L		99
100)	12dibromo3cl	16.71	157	962m	0.1082 ug/L	#	0
101)	135Trichlorobenzene	17.01	180	11122	0.1005 ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW1.D Vial: 5
Acq On : 9 Apr 2017 11:01 Operator: RLD-AGK
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 10 07:49:37 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:40:13 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.83	180	8761	0.0962	ug/L	95
103) Hexachlorobu	18.05	225	5270	0.1010	ug/L	95
104) Naphthalene	18.13	128	10928	0.0809	ug/L	97
105) 123Trichlben	18.44	180	7718	0.0976	ug/L	98

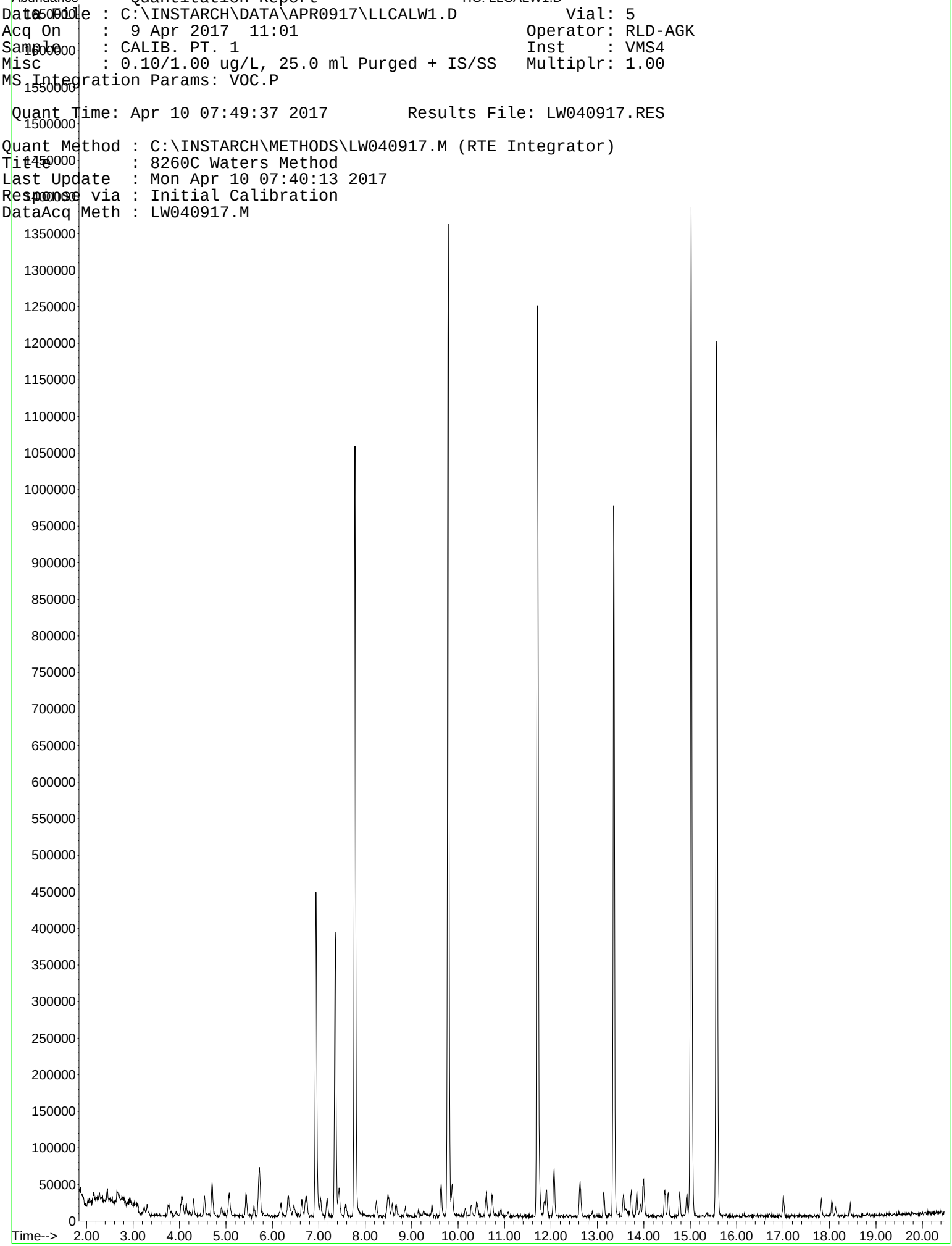
(#) = qualifier out of range (m) = manual integration

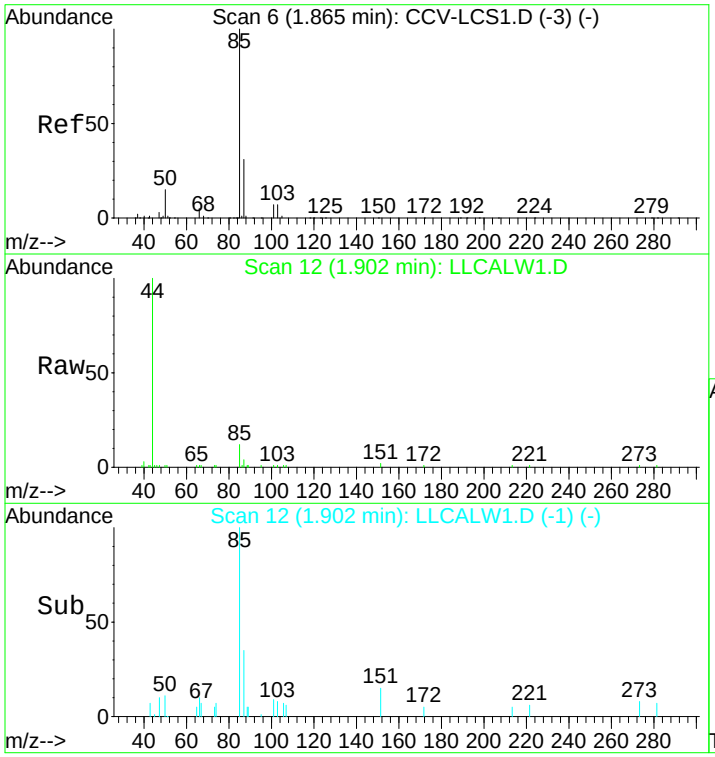
Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW1.D Vial: 5
Acq On : 9 Apr 2017 11:01 Operator: RLD-AGK
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 10 07:49:37 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:40:13 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

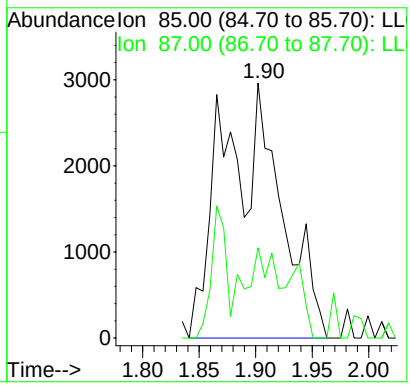




#2
Dichlorodi
Concen: 0.13 ug/L m
RT: 1.90 min Scan# 12
Delta R.T. 0.04 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

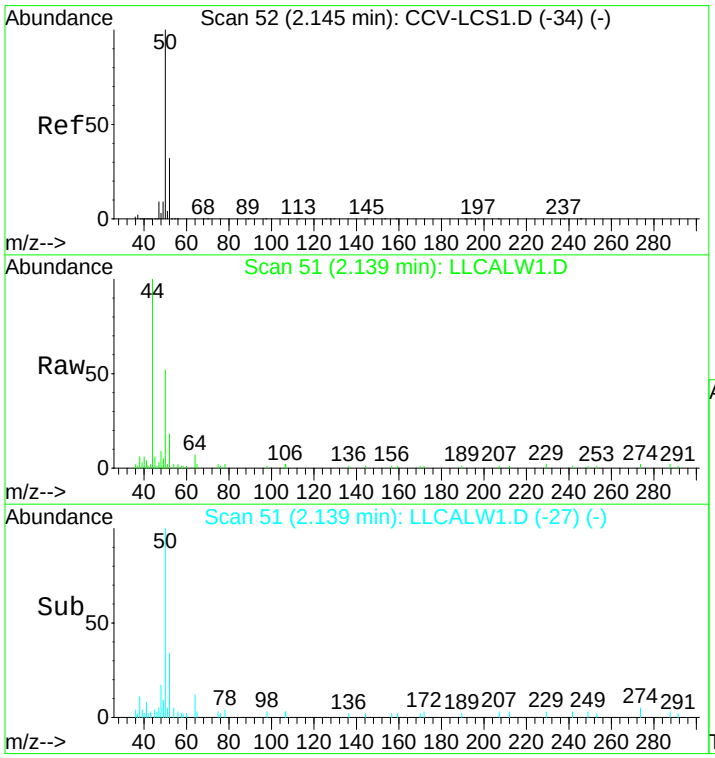
Tgt Ion: 85 Resp: 10584

Ion	Ratio	Lower	Upper
85	100		
87	19.7	12.9	52.9



After Manual Integration

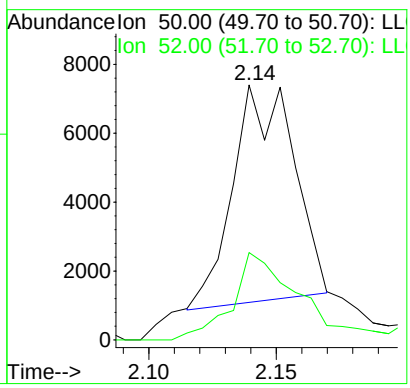
RJ 04/11/2017



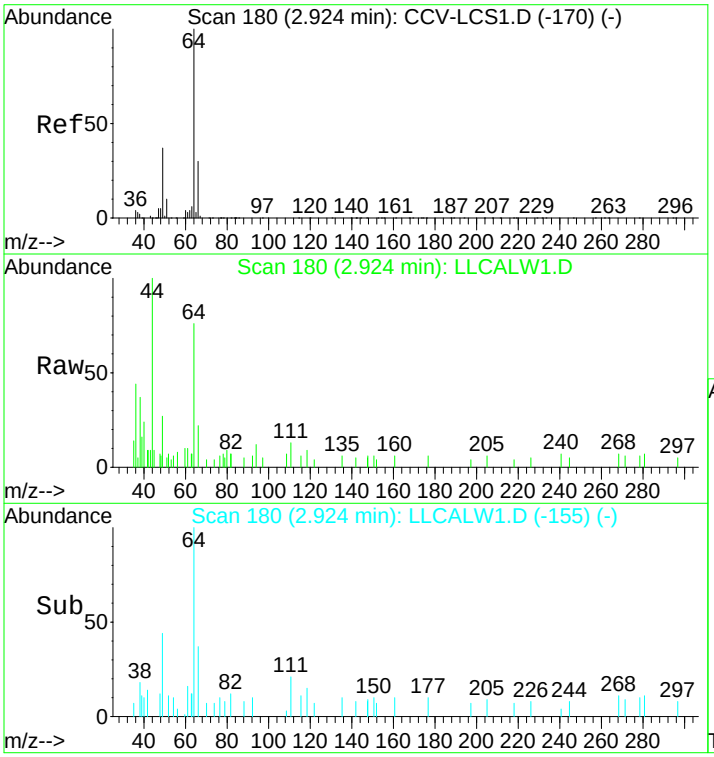
#3
Chloromethan
Concen: 0.09 ug/L m
RT: 2.14 min Scan# 51
Delta R.T. -0.01 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 50 Resp: 10402

Ion	Ratio	Lower	Upper
50	100		
52	46.8	13.0	53.0



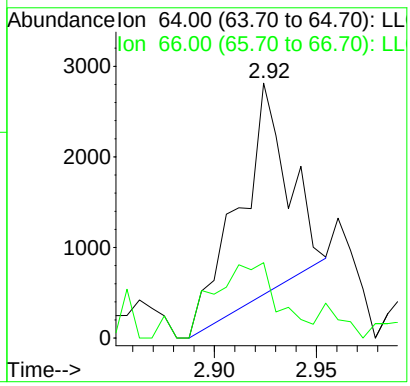
AgK 04/26/17



#6
Chloroethane
Concen: 0.08 ug/L m
RT: 2.92 min Scan# 180
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

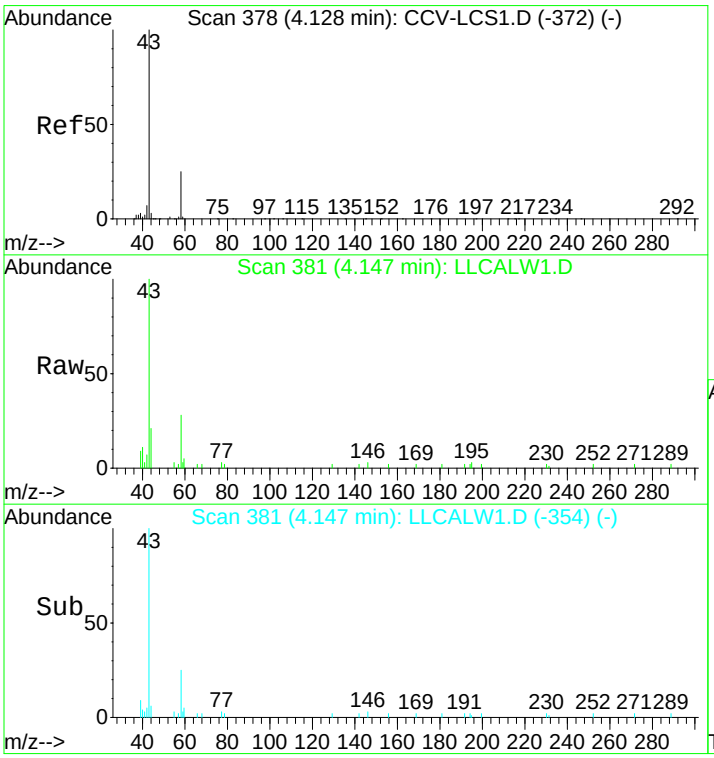
Tgt Ion: 64 Resp: 3946

Ion	Ratio	Lower	Upper
64	100		
66	45.8	11.1	51.1



After Manual Integration

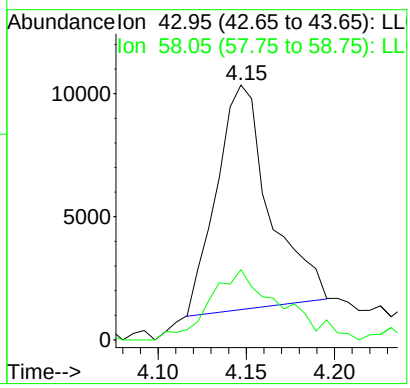
04/11/2017



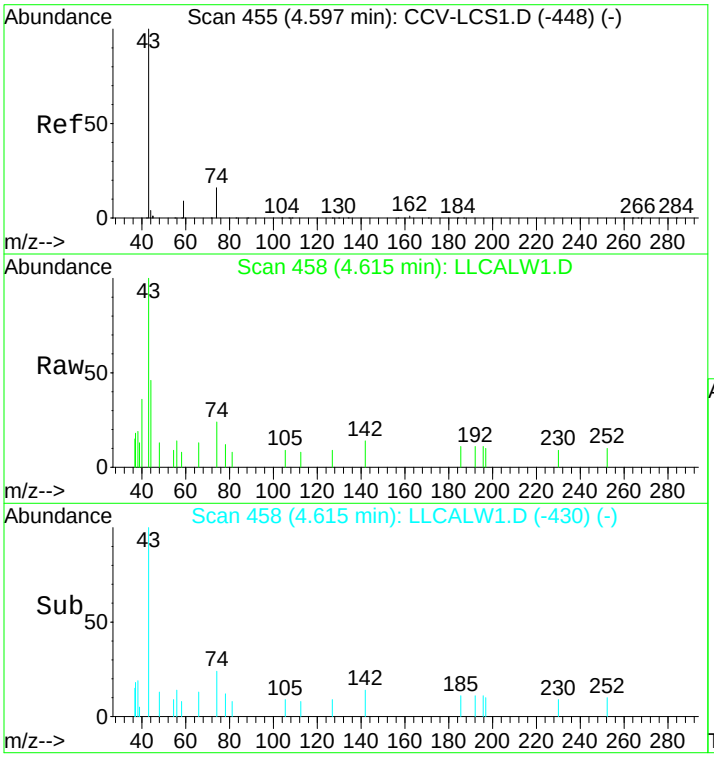
#15
Acetone
Concen: 1.26 ug/L m
RT: 4.15 min Scan# 381
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 43 Resp: 19210

Ion	Ratio	Lower	Upper
43	100		
58	41.7	6.9	46.9



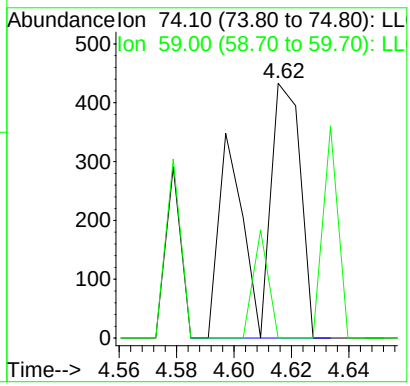
04/26/17

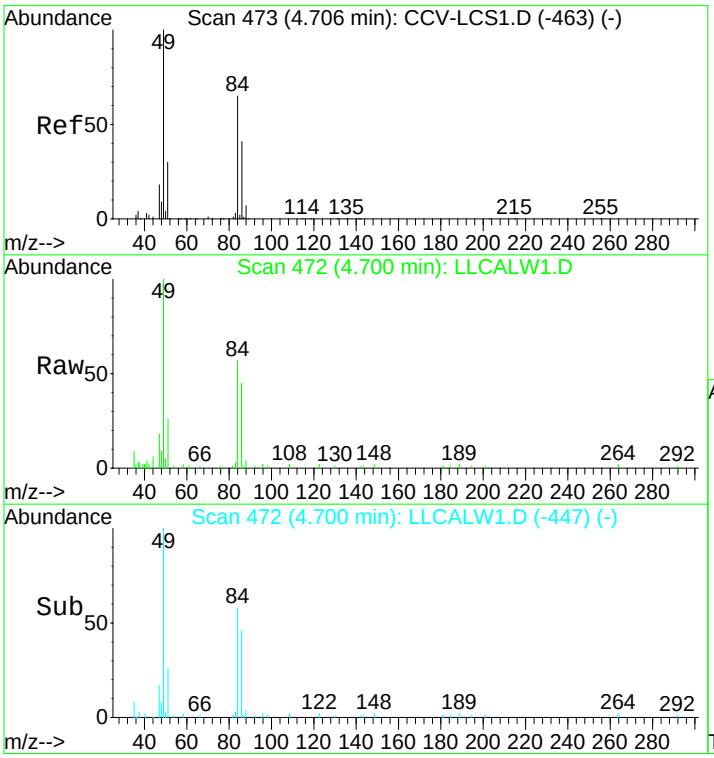


#19
methylacetate
Concen: 0.08 ug/L m
RT: 4.62 min Scan# 458
Delta R.T. 0.02 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 74 Resp: 504

Ion	Ratio	Lower	Upper
74	100		
59	0.0	26.4	66.4#

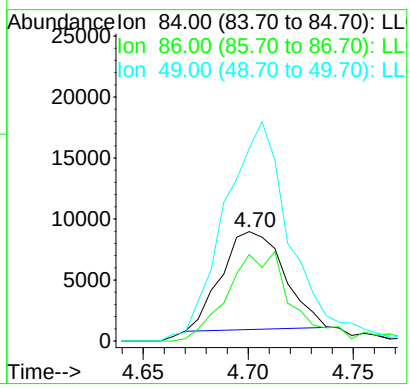




#20
Methylchlorid
Concen: 0.17 ug/L m
RT: 4.70 min Scan# 472
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 84 Resp: 16784

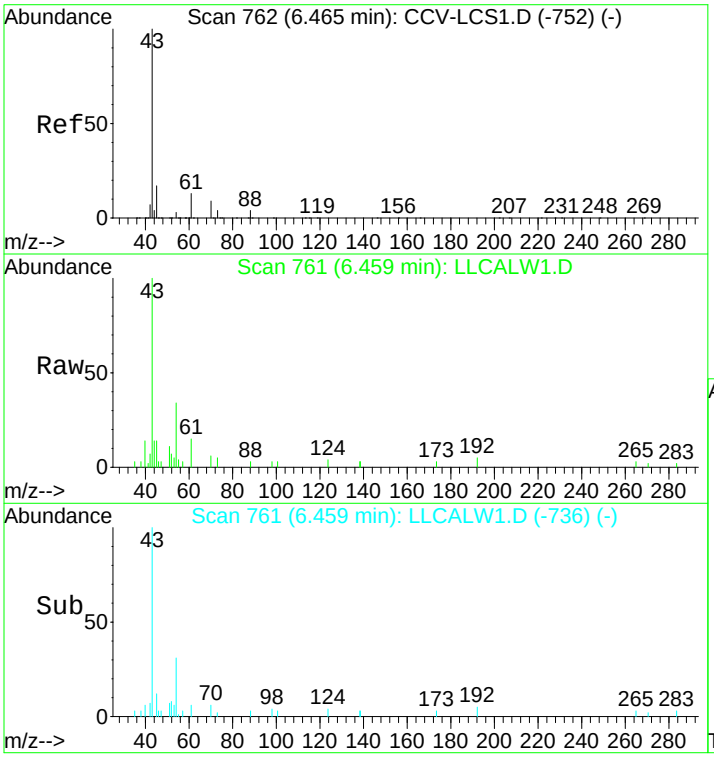
Ion	Ratio	Lower	Upper
84	100		
86	95.4	44.9	84.9#
49	240.1	147.0	187.0#



After Manual Integration

RJ 04/11/2017

AgK 04/26/17



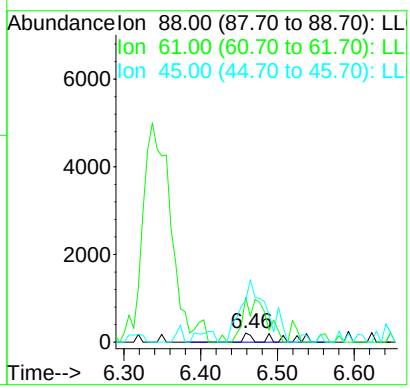
#35
Ethylacetate
Concen: 0.31 ug/L m
RT: 6.46 min Scan# 761
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

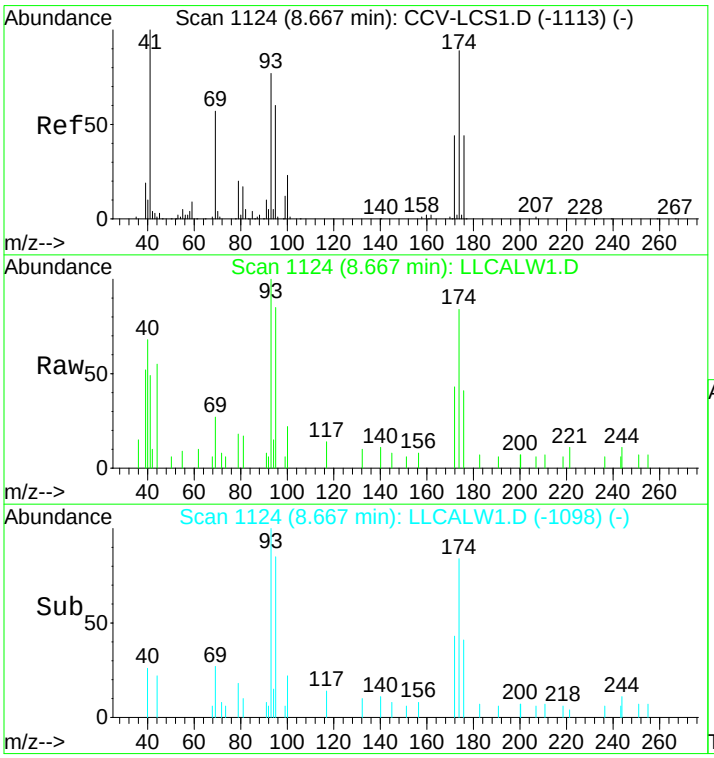
After Manual Integration

RJ 04/11/2017

Tgt Ion: 88 Resp: 385

Ion	Ratio	Lower	Upper
88	100		
61	0.0	363.0	403.0#
45	0.0	437.9	477.9#

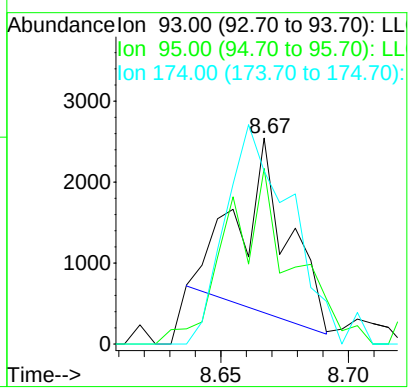




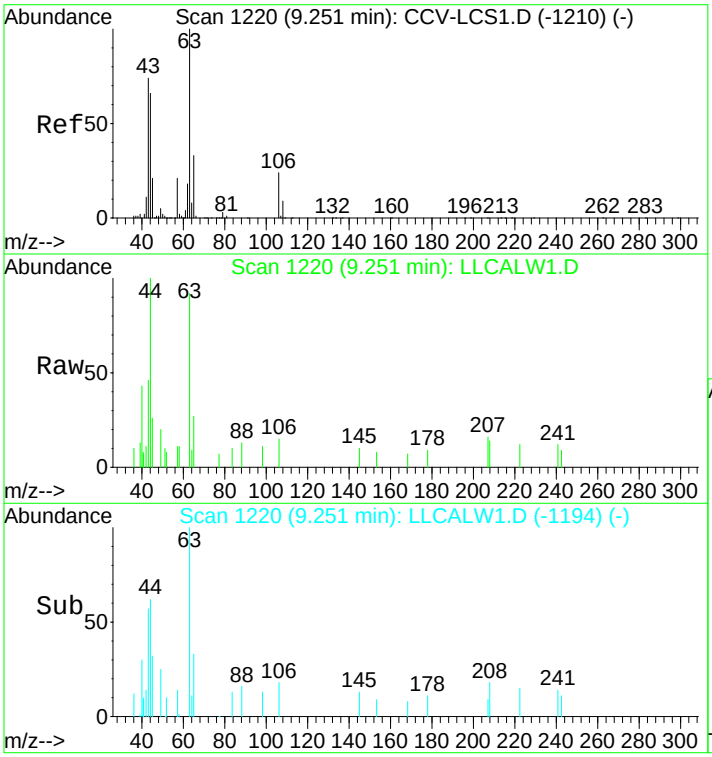
#53
Dibromometha
Concen: 0.08 ug/L m
RT: 8.67 min Scan# 1124
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 93 Resp: 2829

Ion	Ratio	Lower	Upper
93	100		
95	134.8	58.8	98.8#
174	173.9	94.2	134.2#



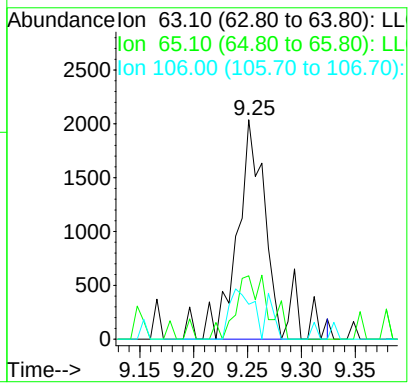
AgH 04/26/17



#58
2CLEVE
Concen: 0.48 ug/L m
RT: 9.25 min Scan# 1220
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

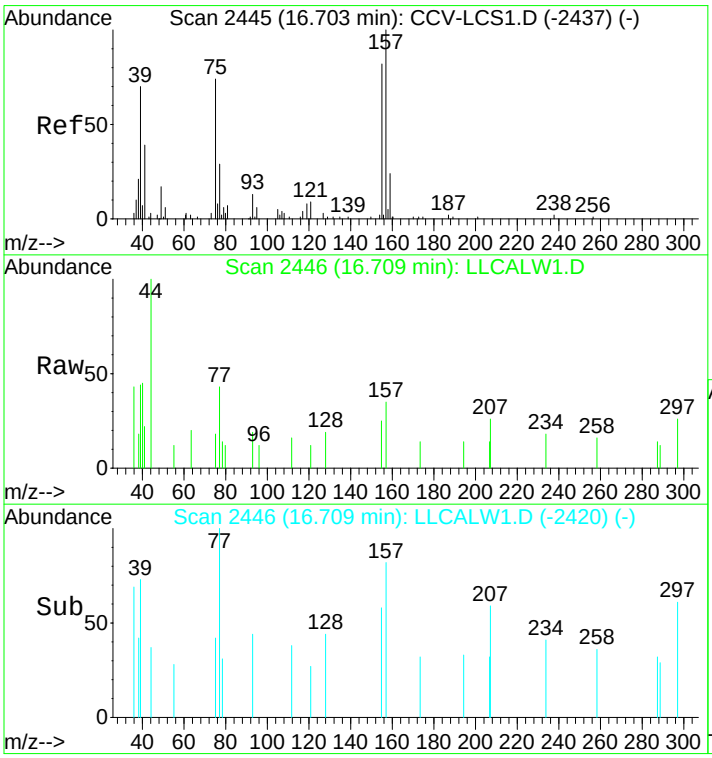
Tgt Ion: 63 Resp: 4133

Ion	Ratio	Lower	Upper
63	100		
65	29.9	12.9	52.9
106	16.5	5.0	45.0



After Manual Integration

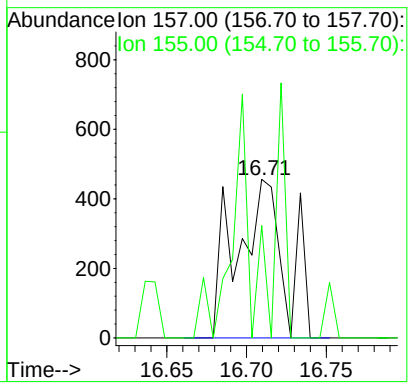
RJ 04/11/2017



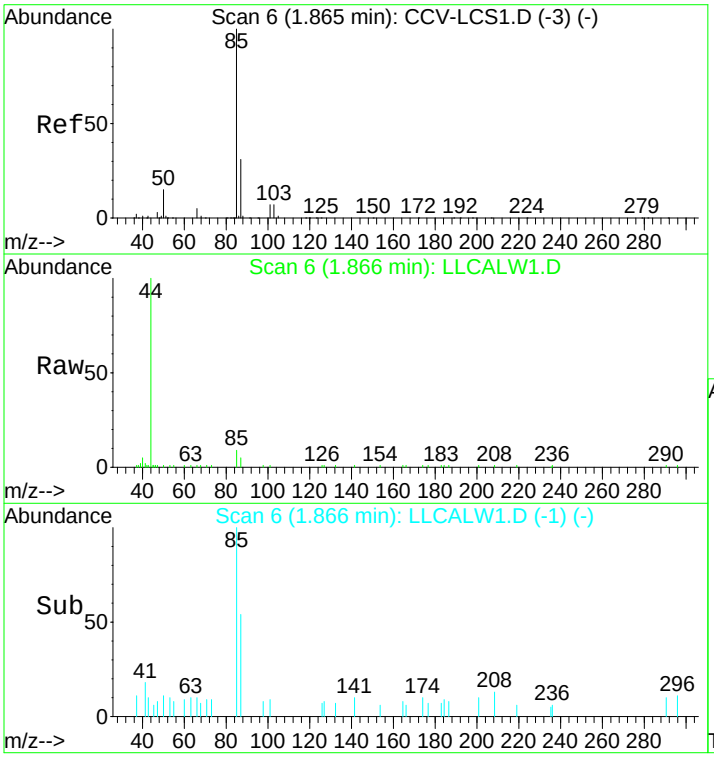
#100
12dibromo3cl
Concen: 0.11 ug/L m
RT: 16.71 min Scan# 2446
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion:157 Resp: 962

Ion	Ratio	Lower	Upper
157	100		
155	0.0	58.6	98.6#



AgH 04/26/17



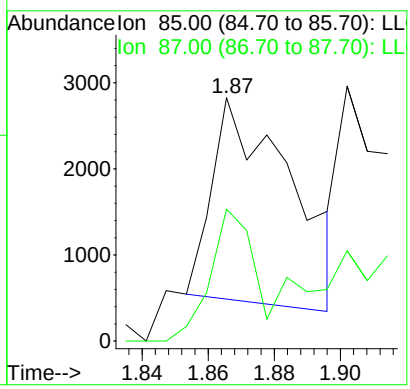
#2
Dichlorodi
Concen: 0.04 ug/L
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 85 Resp: 3879

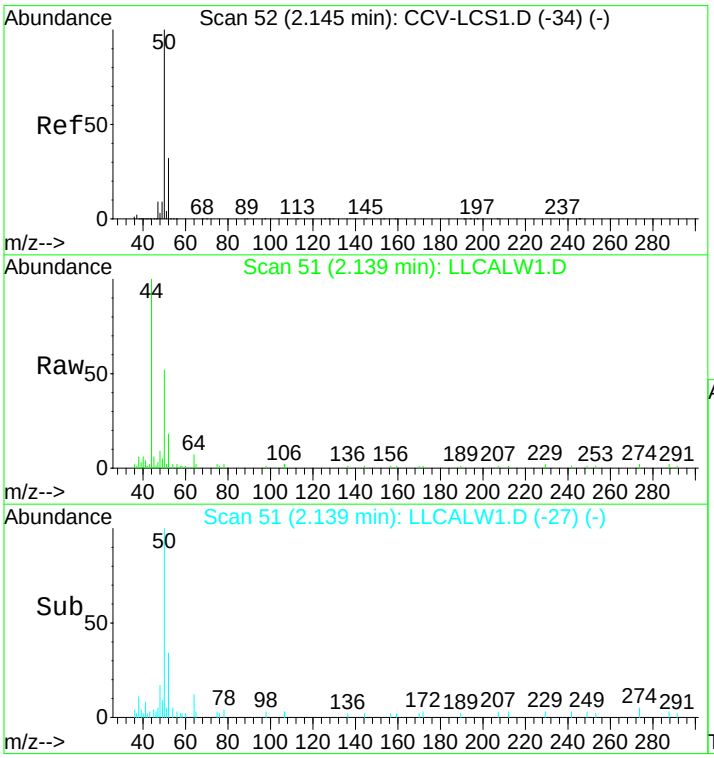
Ion	Ratio	Lower	Upper
85	100		
87	53.7	12.9	52.9#

Before Manual Integration

RJ 04/11/2017



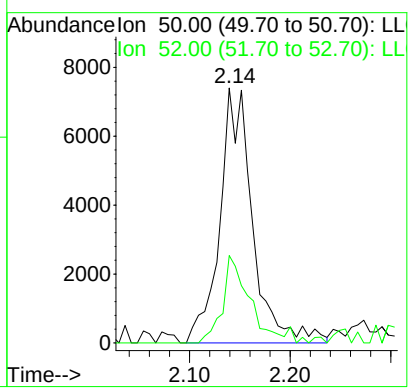
REASON # 2



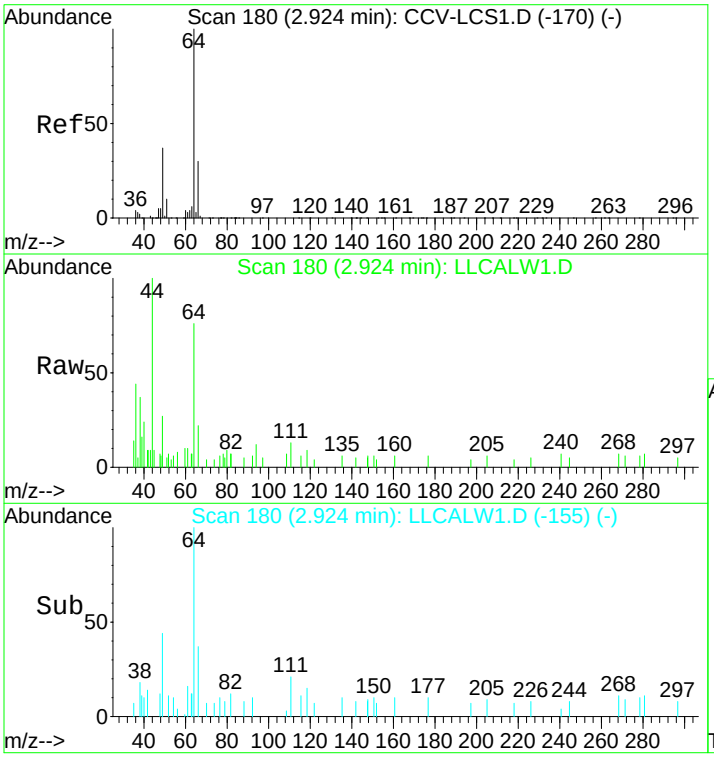
#3
Chloromethan
Concen: 0.16 ug/L
RT: 2.14 min Scan# 51
Delta R.T. -0.01 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 50 Resp: 16739

Ion	Ratio	Lower	Upper
50	100		
52	29.1	13.0	53.0



REASON # 2



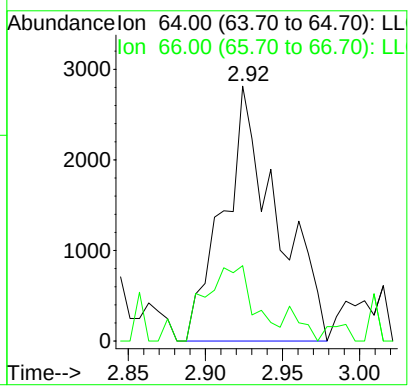
#6
Chloroethane
Concen: 0.14 ug/L
RT: 2.92 min Scan# 180
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 64 Resp: 6752

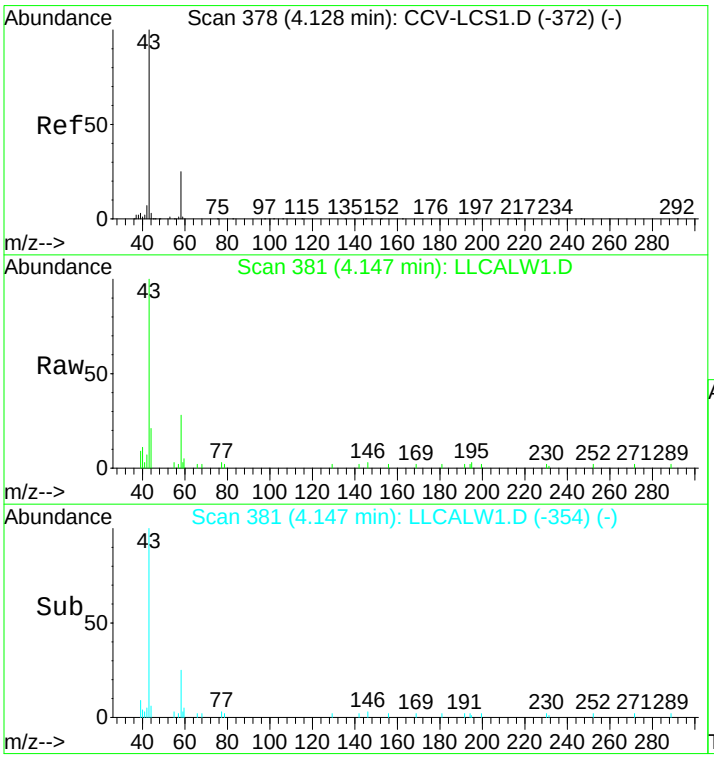
Ion	Ratio	Lower	Upper
64	100		
66	26.8	11.1	51.1

Before Manual Integration

04/11/2017



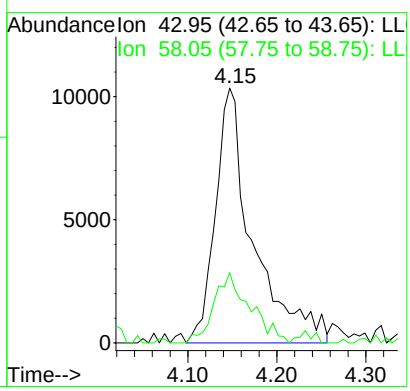
REASON # 2



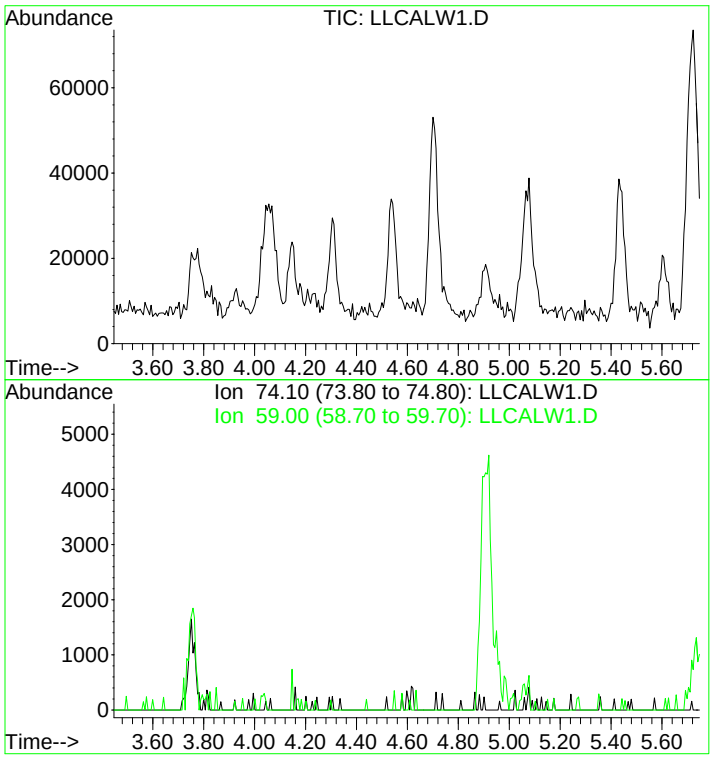
#15
Acetone
Concen: 1.19 ug/L
RT: 4.15 min Scan# 381
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 43 Resp: 30303

Ion	Ratio	Lower	Upper
43	100		
58	26.4	6.9	46.9



REASON # 2



#19
methylacetate
Concen: N.D.
Expected RT: 4.60 min

Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

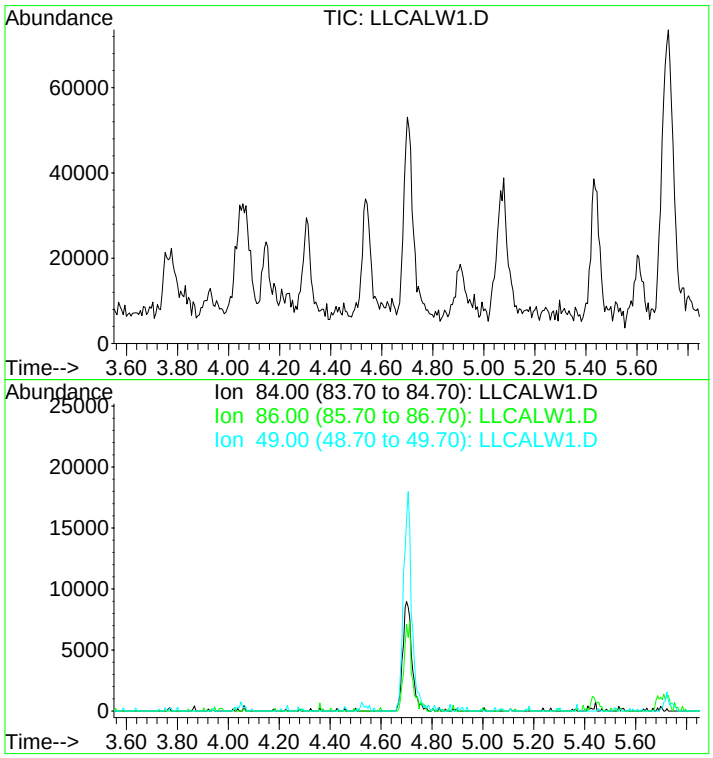
Tgt Ion: 74

Sig	Exp Ratio
74	100
59	46.4

Before Manual Integration

RJ 04/11/2017

REASON # 1



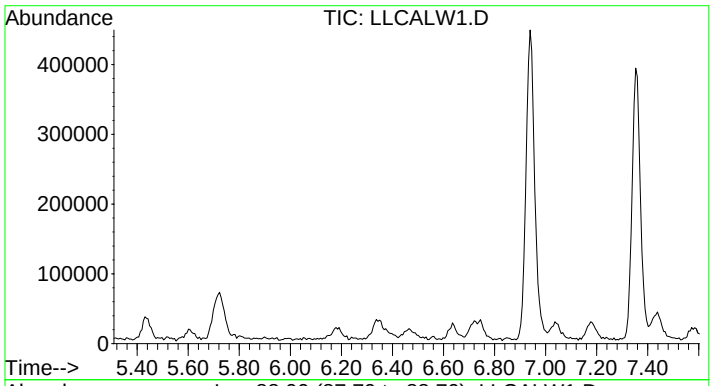
#20
Methylchlorid
Concen: Below Cal
Expected RT: 4.70 min

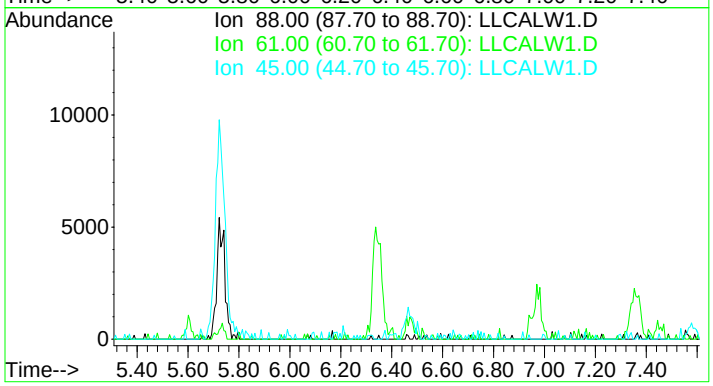
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 84

Sig	Exp Ratio
84	100
86	64.9
49	167.0

REASON # 1





#35
Ethylacetate
Concen: N.D.
Expected RT: 6.46 min

Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

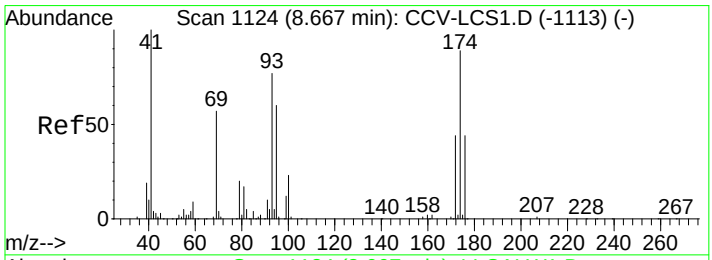
Tgt Ion: 88

Sig	Exp Ratio
88	100
61	383.0
45	457.9

Before Manual Integration

RJ 04/11/2017

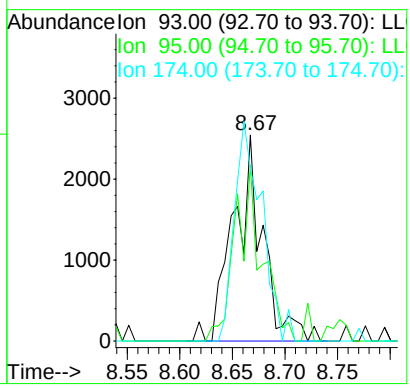
REASON # 1



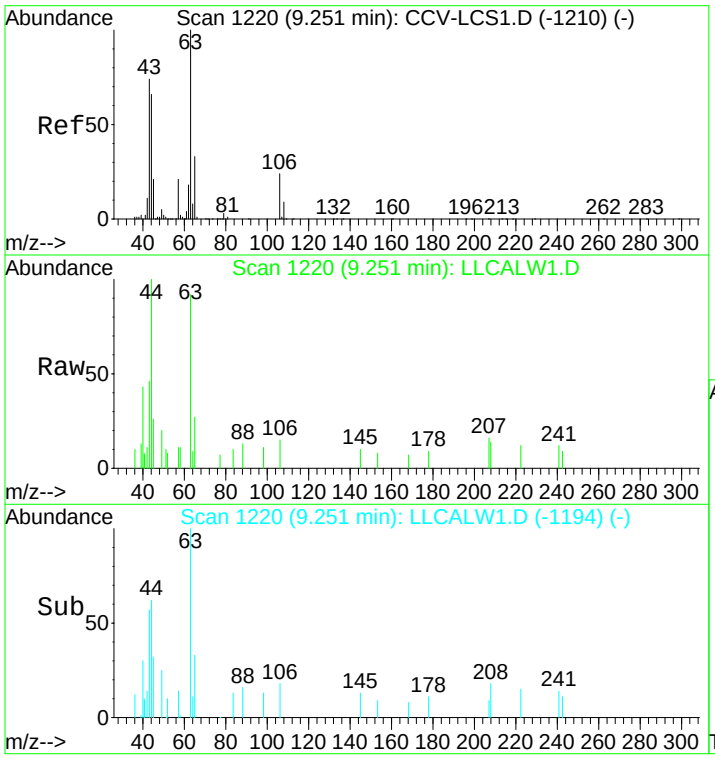
#53
Dibromometha
Concen: 0.15 ug/L
RT: 8.67 min Scan# 1124
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 93 Resp: 4976

Ion	Ratio	Lower	Upper
93	100		
95	76.6	58.8	98.8
174	98.9	94.2	134.2



REASON # 2



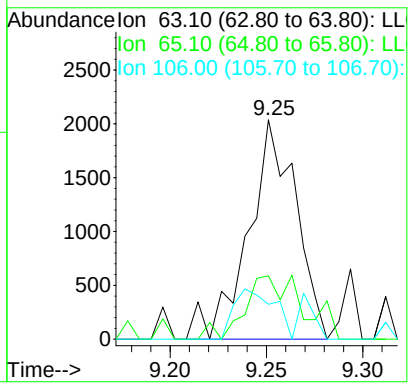
#58
2CLEVE
Concen: 0.40 ug/L
RT: 9.25 min Scan# 1220
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 63 Resp: 3513

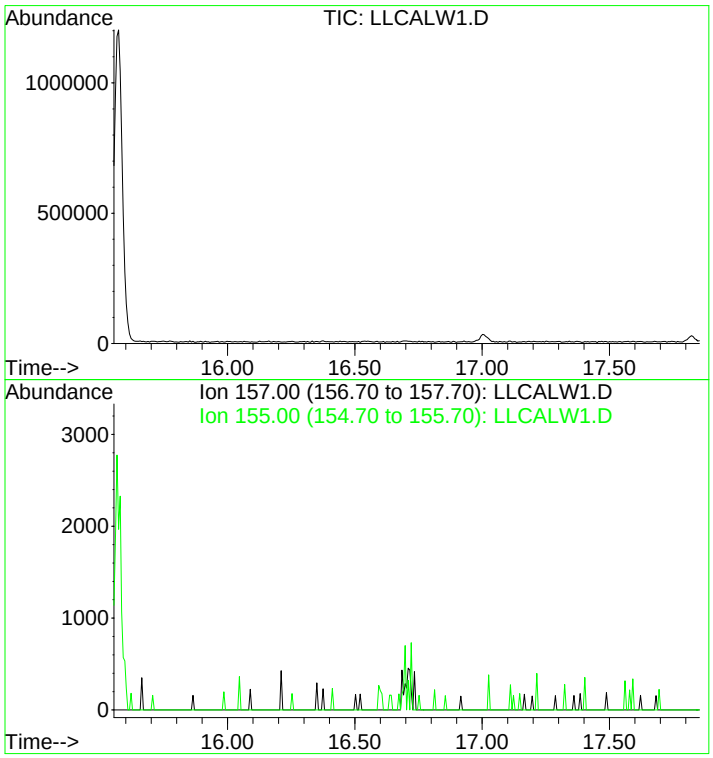
Ion	Ratio	Lower	Upper
63	100		
65	35.1	12.9	52.9
106	19.4	5.0	45.0

Before Manual Integration

04/11/2017



REASON # 2



#100
12dibromo3cl
Concen: N.D.
Expected RT: 16.70 min

Lab File: LLCALW1.D
Acq: 9 Apr 2017 11:01

Tgt Ion: 157

Sig	Exp Ratio
157	100
155	78.6

REASON # 1

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW2.D Vial: 6
Acq On : 9 Apr 2017 11:29 Operator: RLD-AGK
Sample : CALIB. PT. 2 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 10 07:53:51 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:55 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1159565	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	925902	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	536988	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	316940	4.014	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100 %			
45) SURR12DCAd4	7.36	102	68270	4.257	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 106 %			
61) SURRd8Tolule	9.79	98	1168387	4.036	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101 %			
83) SURR4BrFBenz	13.35	95	413901	3.978	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	49665	0.5757	ug/L	92
3) Chloromethan	2.15	50	63283	0.5218	ug/L	98
4) VinylChlorid	2.28	62	52926	0.5602	ug/L	99
5) Bromomethane	2.75	94	16141	0.4784	ug/L	97
6) Chloroethane	2.92	64	29095	0.5391	ug/L	98
7) Dichloroflmethane	3.24	67	62176	0.4918	ug/L	98
8) Trichlorofma	3.30	101	47255	0.4695	ug/L	88
9) Ethylether	3.75	59	21752	0.4818	ug/L	89
10) dichlorotfluoroethan	3.78	67	35195	0.4695	ug/L	96
11) propyleneoxide	3.82	58	19189	4.9332	ug/L	88
12) Acrolein	3.92	56	23829	2.7799	ug/L	97
13) 11dichlorthe	4.03	96	32150	0.5227	ug/L	97
14) Trichlorotfluoroeth	4.06	101	64104	1.0947	ug/L	98
15) Acetone	4.13	43	80501m	4.9413	ug/L	98
16) Iodomethane	4.22	142	28326	0.6759	ug/L	96
17) Carbon Dislf	4.30	76	142378	1.0305	ug/L	99
18) allylchloride	4.54	41	121801	1.0296	ug/L	99
19) methylacetate	4.60	74	3040m	0.4464	ug/L	91
20) Methylchlorid	4.70	84	64978m	0.6140	ug/L #	98
21) tbutylalcohol	4.91	59	122950	36.4193	ug/L	92
22) Acrylonitrile	5.03	53	43443	2.8532	ug/L	98
23) t12dichlorte	5.07	96	36196	0.5273	ug/L	95
24) MtBE	5.08	73	68051	0.5311	ug/L	99
25) Hexane	5.44	57	92165	0.9771	ug/L	98
26) 11dichlorota	5.61	63	72875	0.5235	ug/L	99
27) Vinylacetate	5.70	43	464791	5.0097	ug/L	97
28) chloroprene	5.73	53	129283	1.0337	ug/L	99
29) Diisopether	5.72	45	141614	0.5127	ug/L	97
30) ETBE	6.18	59	93416	0.5148	ug/L	99
31) 22dichloropr	6.33	77	44015	0.5154	ug/L	99
32) c12dichlorte	6.34	96	41951	0.5238	ug/L	98
33) 2Butanone	6.37	72	22349	5.8341	ug/L	89
34) propionitrile	6.44	54	34429m	5.7586	ug/L	98
35) Ethylacetate	6.46	88	4123	3.0660	ug/L #	69
36) methacrylonitrile	6.63	67	16116	0.9979	ug/L	96
37) Bromochlorma	6.64	128	18700	0.5494	ug/L	100
38) Tetrahydofur	6.71	42	86118	5.8412	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW2.D Vial: 6
Acq On : 9 Apr 2017 11:29 Operator: RLD-AGK
Sample : CALIB. PT. 2 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 10 07:53:51 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:55 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.74	83	73927	0.5517	ug/L		98
40)	111trichlota	6.97	97	53886	0.5030	ug/L		98
42)	Cyclohexane	7.04	56	61474	0.5111	ug/L		98
43)	Carbtetraclo	7.19	119	37373	0.4658	ug/L		93
44)	11dicloprope	7.18	110	16249	0.4765	ug/L	#	87
46)	Benzene	7.43	78	150137	0.5232	ug/L		98
47)	12dichlorota	7.46	62	47736	0.5383	ug/L		99
48)	TAME	7.59	73	66472	0.5009	ug/L		91
49)	trichloroete	8.23	95	39027	0.5380	ug/L		99
50)	methylcyclohexane	8.48	83	52321	0.4837	ug/L		100
51)	12dicloropra	8.51	63	44080	0.5281	ug/L		98
52)	23Dicl1propene	8.57	75	53996	0.5228	ug/L		98
53)	Dibromometha	8.67	93	18687	0.4955	ug/L		91
54)	methylmethacrylate	8.67	69	14338	0.5513	ug/L		96
55)	14dioxane	8.70	88	10154	37.5445	ug/L		99
56)	Bromodiclrma	8.86	83	49288	0.5563	ug/L		97
57)	2Nitropropane	9.15	43	45903	5.2639	ug/L		95
58)	2CLEVE	9.25	63	21733	2.3533	ug/L		93
59)	c13dicloproe	9.44	75	48022	0.5050	ug/L		96
60)	4Meth2Pentan	9.63	43	280977m	5.8005	ug/L		97
62)	Toluene	9.87	92	94358	0.5206	ug/L		97
63)	t13Dicloprop	10.16	75	34241	0.4958	ug/L		98
64)	ethylmethacrylate	10.28	69	58738	1.0765	ug/L		99
65)	112Triclotha	10.40	83	24539	0.5780	ug/L		95
66)	Tetrachlorte	10.60	166	47060	0.5308	ug/L		98
67)	13Diclorpropa	10.61	76	45465	0.5428	ug/L		93
69)	2Hexanone	10.73	43	193503m	5.6878	ug/L		97
70)	Clorodibrmta	10.92	129	33144	0.5539	ug/L		92
71)	12Dibrometha	11.07	107	26208	0.5497	ug/L		98
72)	Chlorobenzen	11.75	112	112548	0.5411	ug/L		94
73)	1Clhexane	11.72	91	42362	0.4846	ug/L		87
74)	1112Tetclota	11.87	131	35636	0.5070	ug/L		93
75)	Ethylbenzene	11.90	91	172560	0.5290	ug/L		97
76)	m p-Xylene	12.06	106	134126	1.0243	ug/L		95
77)	o-Xylene	12.62	106	66031	0.5128	ug/L		95
78)	Styrene	12.63	104	105215	0.5073	ug/L		95
79)	Bromoform	12.89	173	21700	0.6017	ug/L		98
80)	Isopropylben	13.14	105	157930	0.5003	ug/L		100
81)	cyclohexanone	13.25	55	16336	14.6519	ug/L		99
84)	Bromobenzene	13.56	156	52921	0.5696	ug/L		93
85)	1122Tetrclta	13.55	83	39185m	0.6322	ug/L		100
86)	123Triclproa	13.62	75	32352	0.6175	ug/L		100
87)	14dichloro2butene	13.63	53	6513	0.5846	ug/L		96
88)	n-Propylbenz	13.72	91	204782	0.5348	ug/L		98
89)	2chlorotolue	13.85	91	125127	0.5374	ug/L		98
90)	4chlorotolue	14.00	91	144295	0.5528	ug/L		99
91)	135Trimebenz	13.98	105	133028	0.4894	ug/L		99
92)	tbutylbenzen	14.45	119	122746	0.5034	ug/L		99
93)	124Trimetben	14.53	105	143229	0.5134	ug/L		99
94)	sbutylbenzen	14.77	105	180283	0.5185	ug/L		100
95)	13Diclorbenz	14.92	146	94425	0.5394	ug/L		93
96)	pIsopropylto	14.99	119	148900	0.5031	ug/L		98
97)	14dichlorobe	15.05	146	100975	0.5811	ug/L		95
98)	12dichlorobe	15.60	146	98991	0.6027	ug/L		96
99)	nButylbenzen	15.59	91	132890	0.5228	ug/L		97
100)	12dibromo3cl	16.71	157	5940	0.6129	ug/L		90
101)	135Trichlorobenzene	17.01	180	64252	0.5326	ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW2.D Vial: 6
Acq On : 9 Apr 2017 11:29 Operator: RLD-AGK
Sample : CALIB. PT. 2 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 10 07:53:51 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:55 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	57333	0.5775 ug/L	96
103) Hexachlorobu	18.05	225	29409	0.5167 ug/L	91
104) Naphthalene	18.13	128	87269	0.5926 ug/L	98
105) 123Trichlben	18.44	180	50483	0.5854 ug/L	98

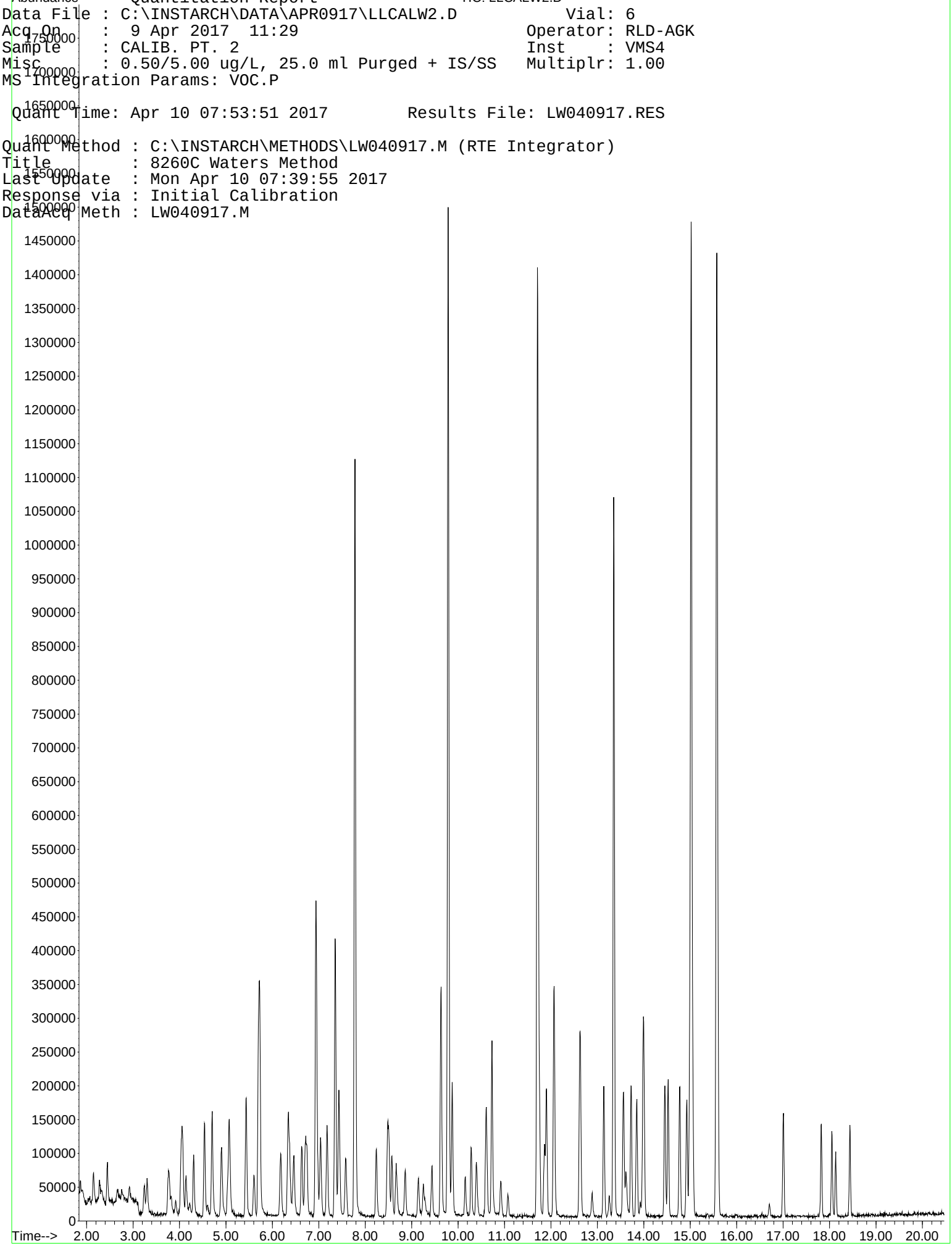
(#) = qualifier out of range (m) = manual integration

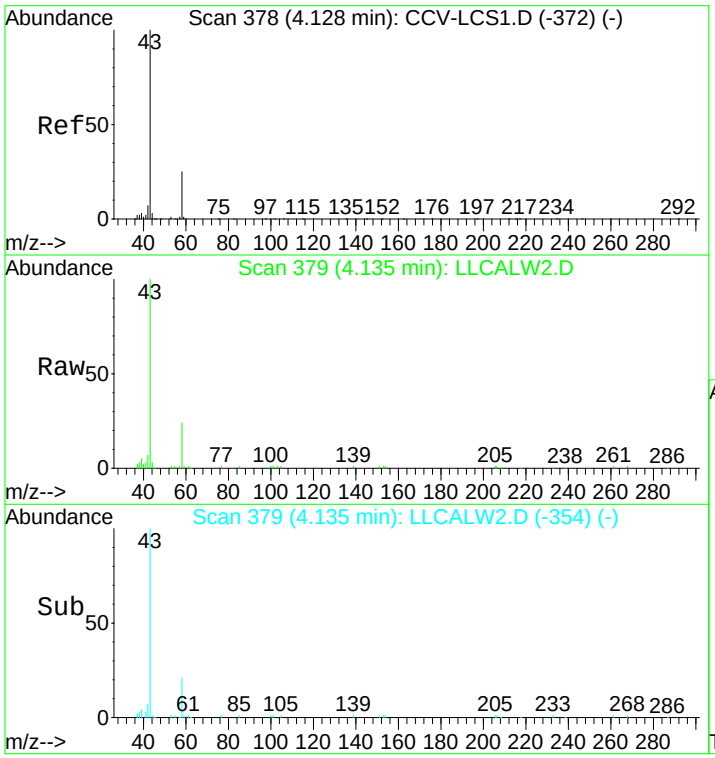
Abundance Quantitation Report TIC: LLCALW2.D

Data File : C:\INSTARCH\DATA\APR0917\LLCALW2.D Vial: 6
Acq On : 9 Apr 2017 11:29 Operator: RLD-AGK
Sample : CALIB. PT. 2 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 10 07:53:51 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:55 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

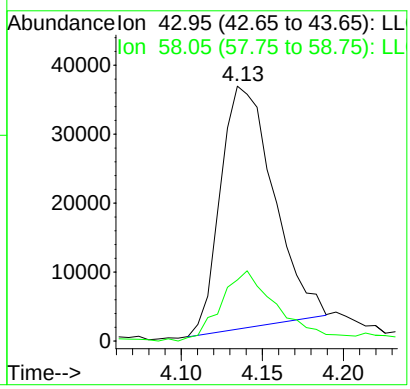




#15
Acetone
Concen: 4.94 ug/L m
RT: 4.13 min Scan# 379
Delta R.T. -0.00 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

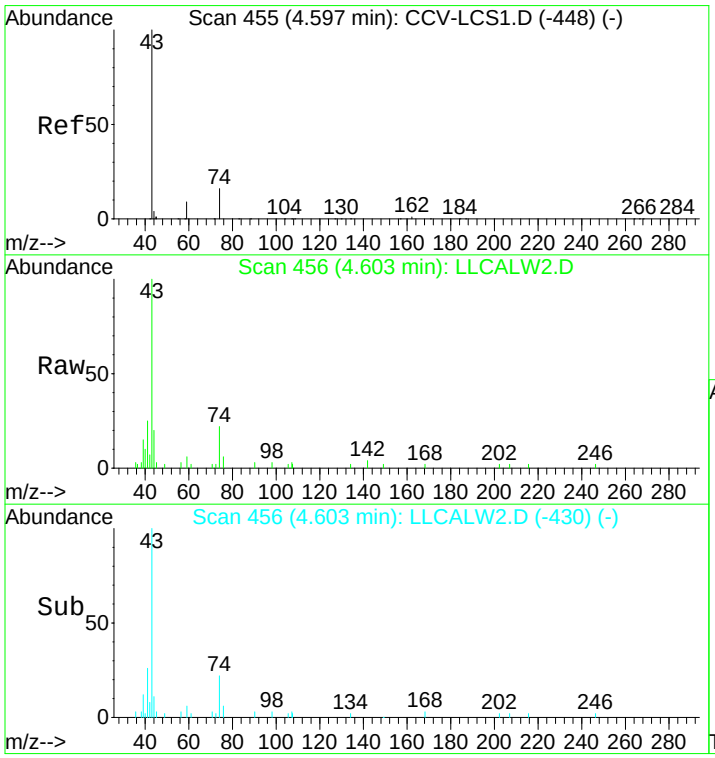
Tgt Ion: 43 Resp: 80501

Ion	Ratio	Lower	Upper
43	100		
58	34.0	6.9	46.9



After Manual Integration

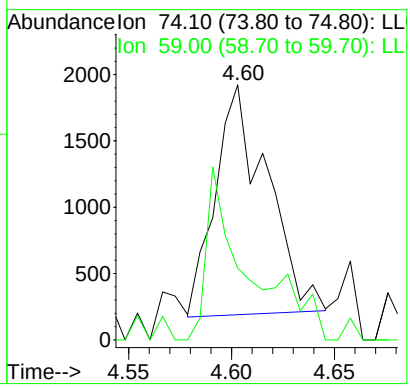
RJ 04/11/2017



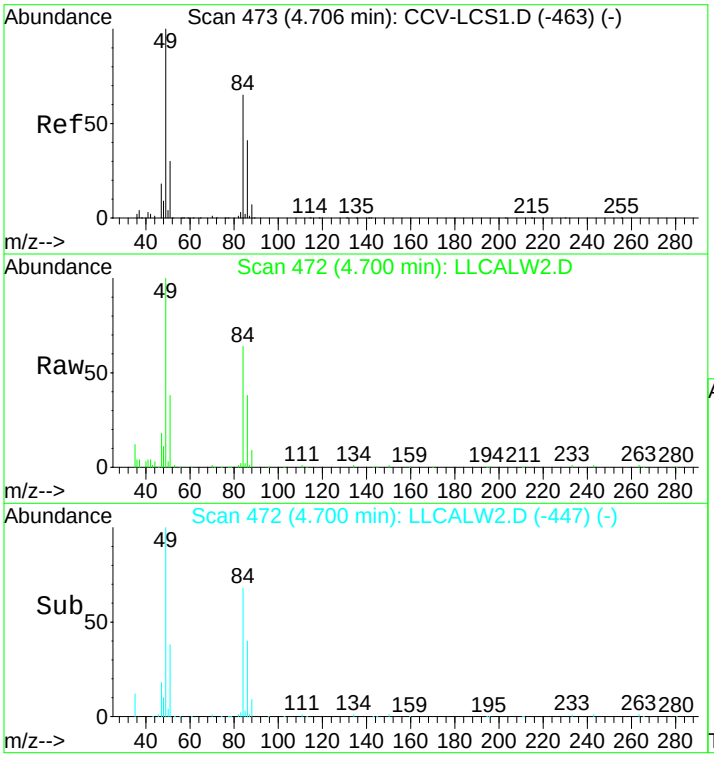
#19
methylacetate
Concen: 0.45 ug/L m
RT: 4.60 min Scan# 456
Delta R.T. 0.01 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

Tgt Ion: 74 Resp: 3040

Ion	Ratio	Lower	Upper
74	100		
59	61.0	26.4	66.4



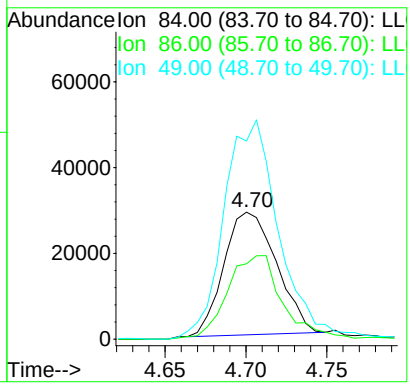
AgH 04/26/17



#20
Methylchlorid
Concen: 0.61 ug/L m
RT: 4.70 min Scan# 472
Delta R.T. -0.00 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

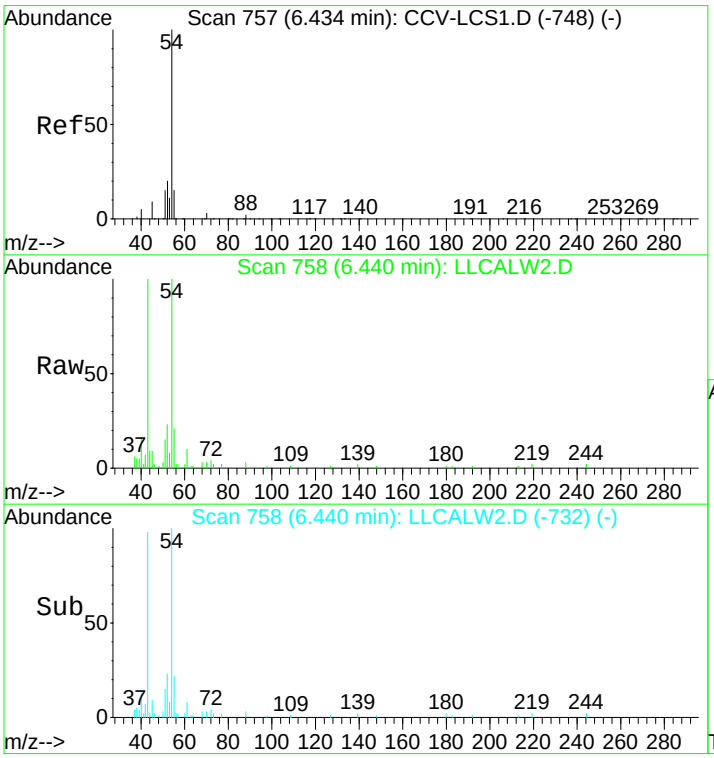
Tgt Ion: 84 Resp: 64978

Ion	Ratio	Lower	Upper
84	100		
86	71.6	44.9	84.9
49	187.2	147.0	187.0#



After Manual Integration

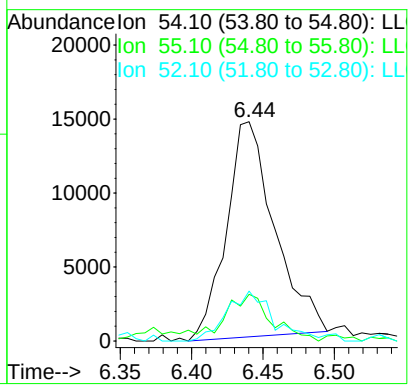
RJ 04/11/2017



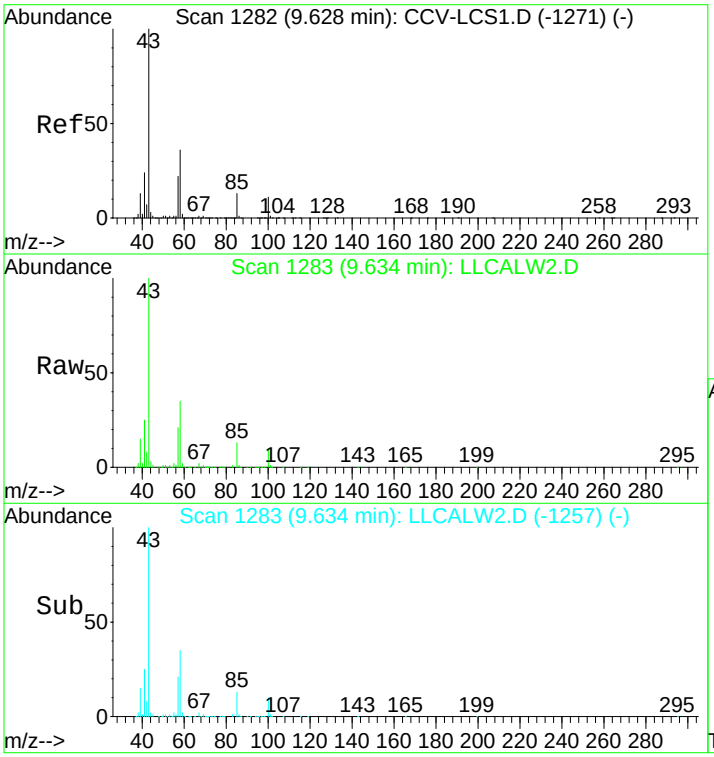
#34
propionitrile
Concen: 5.76 ug/L m
RT: 6.44 min Scan# 758
Delta R.T. 0.01 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

Tgt Ion: 54 Resp: 34429

Ion	Ratio	Lower	Upper
54	100		
55	20.4	0.0	36.9
52	23.0	0.0	39.8



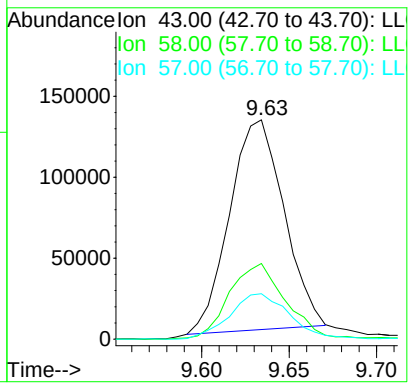
AgH 04/26/17



#60
4Meth2Pentan
Concen: 5.80 ug/L m
RT: 9.63 min Scan# 1283
Delta R.T. 0.01 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

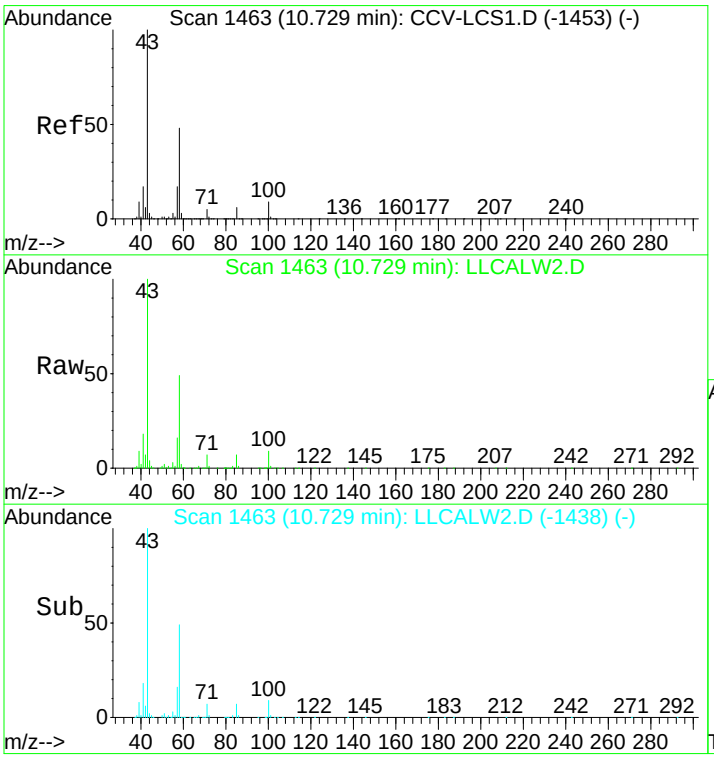
Tgt Ion: 43 Resp: 280977

Ion	Ratio	Lower	Upper
43	100		
58	38.0	15.1	55.1
57	24.0	1.7	41.7



After Manual Integration

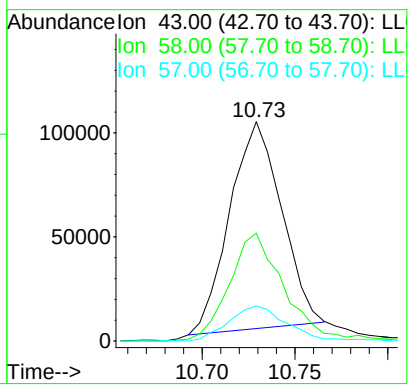
RJ 04/11/2017



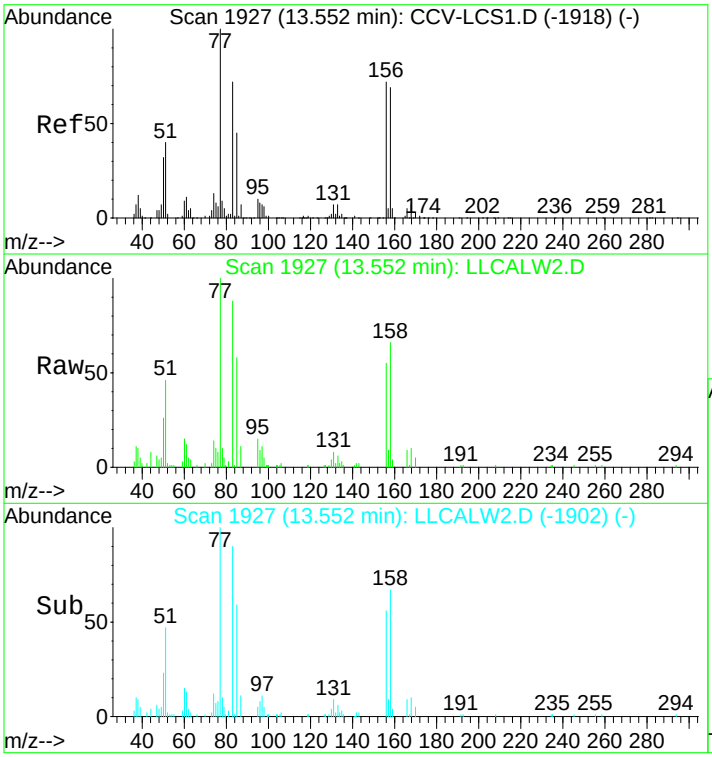
#69
2Hexanone
Concen: 5.69 ug/L m
RT: 10.73 min Scan# 1463
Delta R.T. -0.00 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

Tgt Ion: 43 Resp: 193503

Ion	Ratio	Lower	Upper
43	100		
58	56.1	28.5	68.5
57	19.1	0.0	36.4



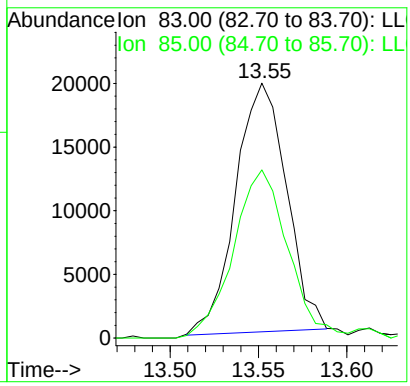
AgH 04/26/17



#85
1122Tetrclta
Concen: 0.63 ug/L m
RT: 13.55 min Scan# 1927
Delta R.T. -0.00 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

Tgt Ion: 83 Resp: 39185

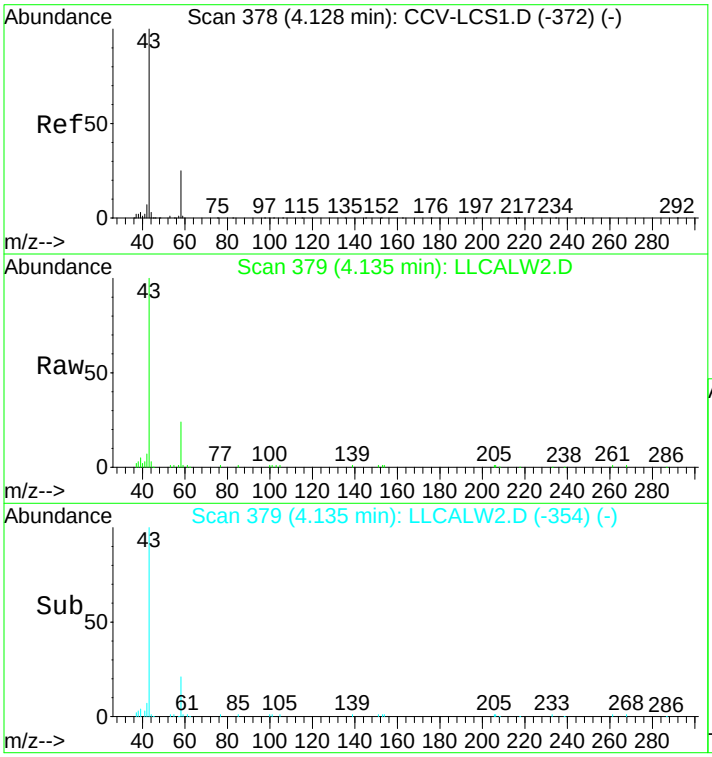
Ion	Ratio	Lower	Upper
83	100		
85	72.3	47.7	87.7



After Manual Integration

RJ 04/11/2017

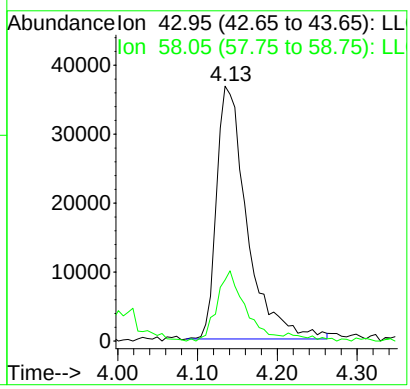
AGK 04/26/17



#15
Acetone
Concen: 6.20 ug/L
RT: 4.13 min Scan# 379
Delta R.T. 0.00 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

Tgt Ion: 43 Resp: 97692

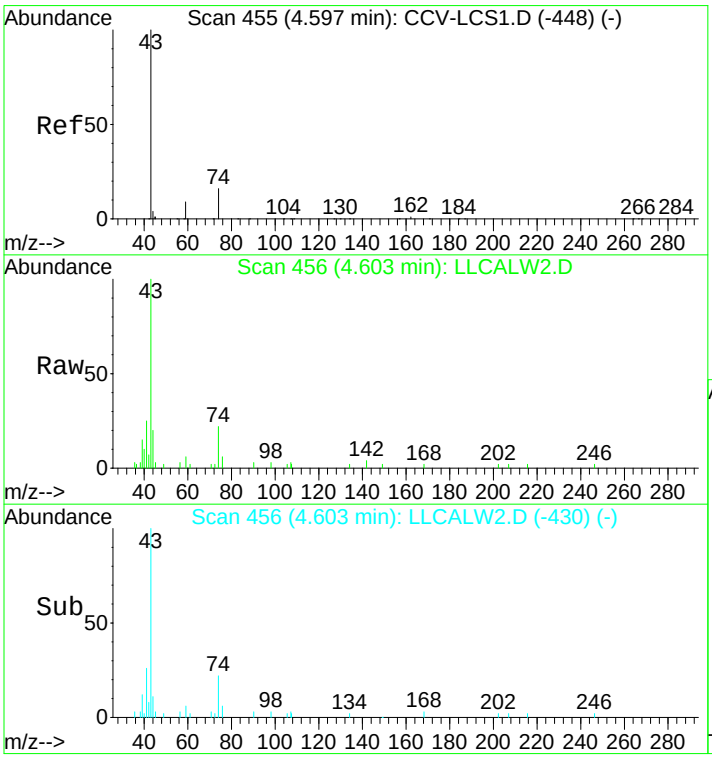
Ion	Ratio	Lower	Upper
43	100		
58	28.0	6.9	46.9



Before Manual Integration

04/11/2017

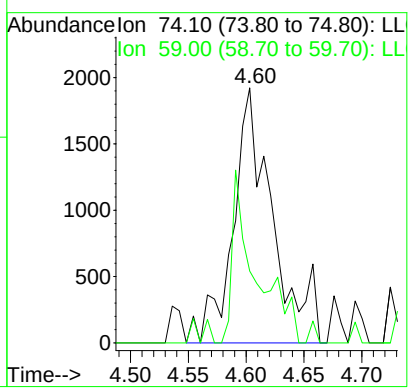
REASON # 2



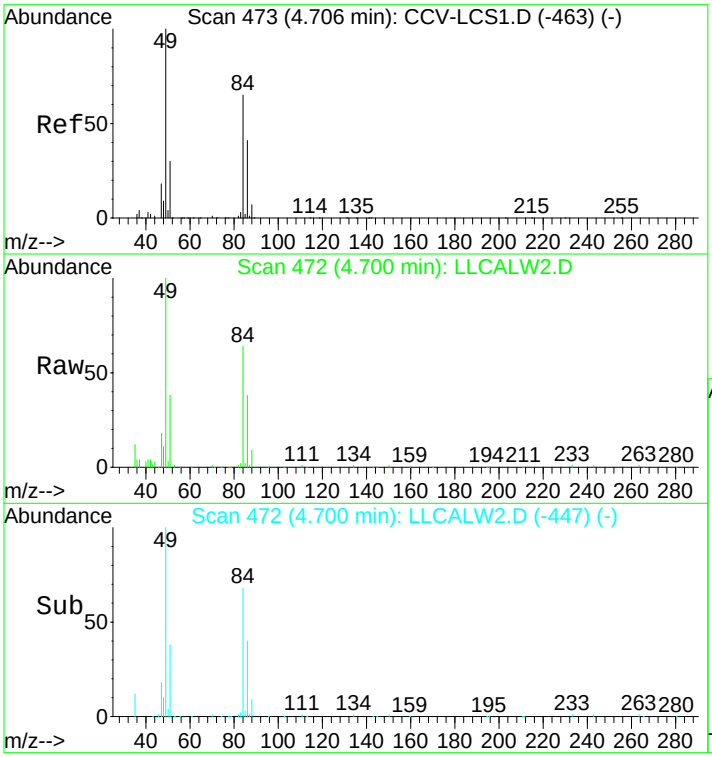
#19
methylacetate
Concen: 0.73 ug/L
RT: 4.60 min Scan# 456
Delta R.T. 0.01 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

Tgt Ion: 74 Resp: 4554

Ion	Ratio	Lower	Upper
74	100		
59	40.7	26.4	66.4



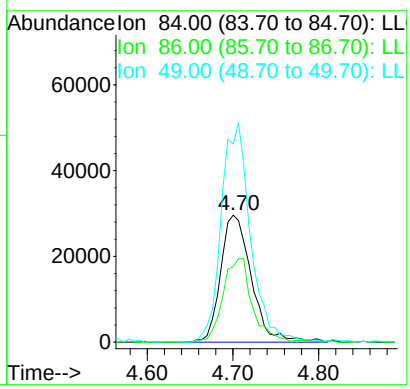
REASON # 2



#20
Methylchlorid
Concen: 0.66 ug/L
RT: 4.70 min Scan# 472
Delta R.T. 0.00 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

Tgt Ion: 84 Resp: 73758

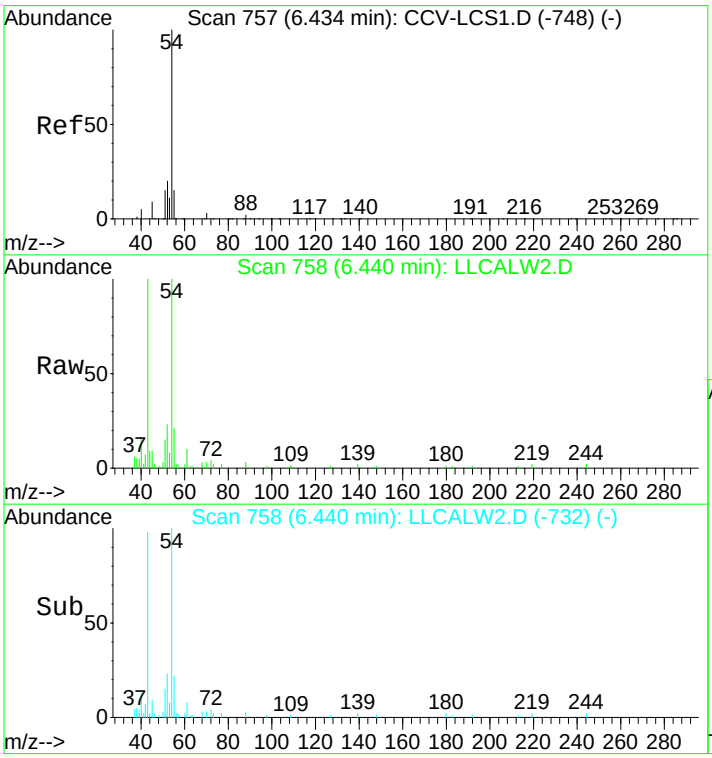
Ion	Ratio	Lower	Upper
84	100		
86	63.1	44.9	84.9
49	164.9	147.0	187.0



Before Manual Integration

04/11/2017

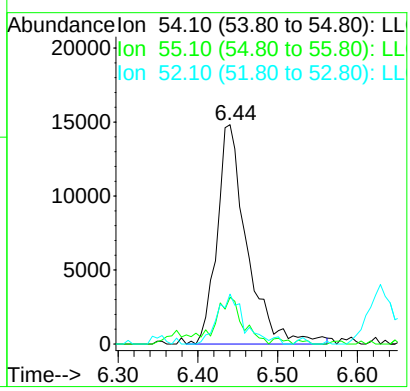
REASON # 2



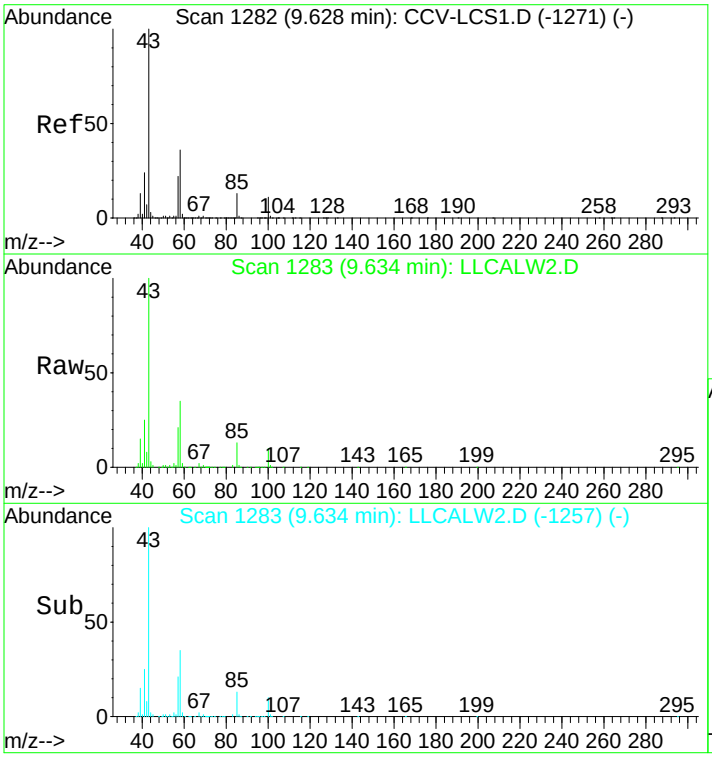
#34
propionitrile
Concen: 6.56 ug/L
RT: 6.44 min Scan# 758
Delta R.T. 0.01 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

Tgt Ion: 54 Resp: 38553

Ion	Ratio	Lower	Upper
54	100		
55	18.2	0.0	36.9
52	20.6	0.0	39.8



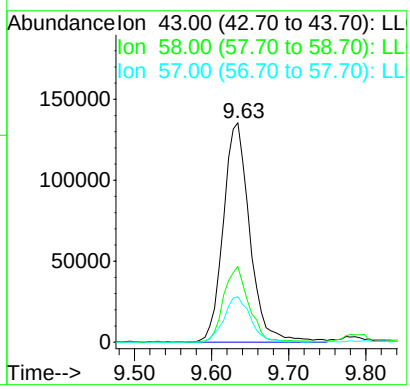
REASON # 2



#60
4Meth2Pentan
Concen: 6.84 ug/L
RT: 9.63 min Scan# 1283
Delta R.T. 0.01 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

Tgt Ion: 43 Resp: 323841

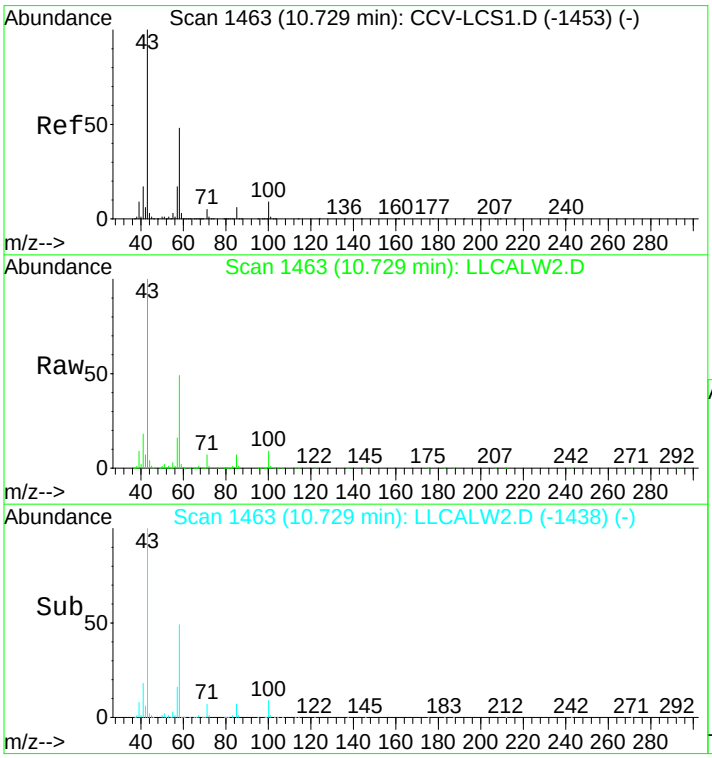
Ion	Ratio	Lower	Upper
43	100		
58	33.0	15.1	55.1
57	20.8	1.7	41.7



Before Manual Integration

RJ 04/11/2017

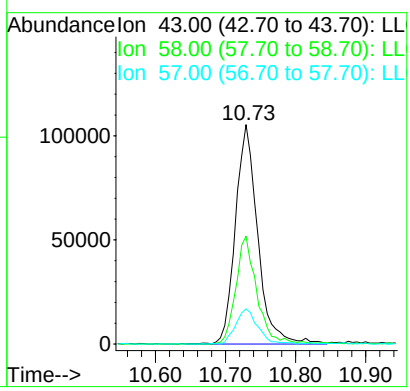
REASON # 2



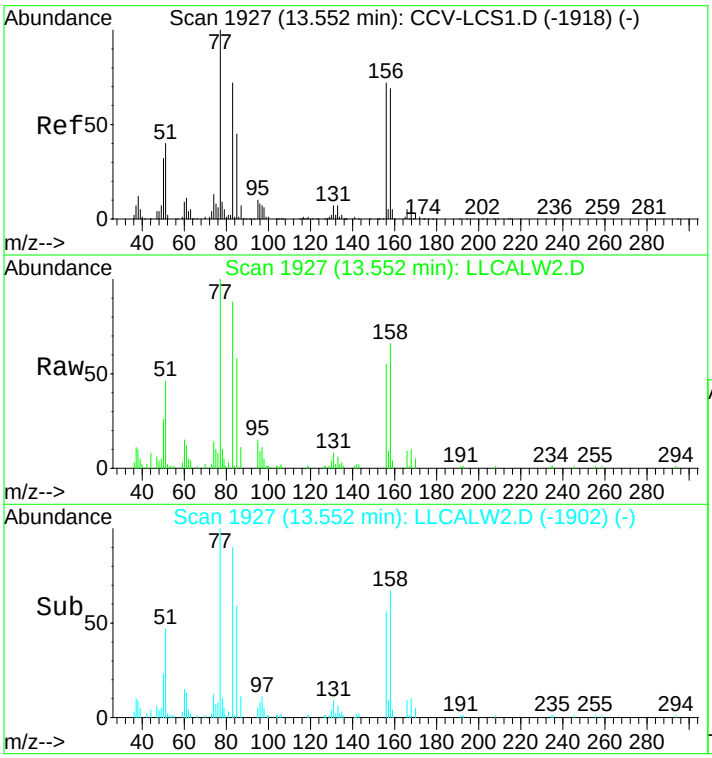
#69
2Hexanone
Concen: 7.07 ug/L
RT: 10.73 min Scan# 1463
Delta R.T. -0.00 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

Tgt Ion: 43 Resp: 233533

Ion	Ratio	Lower	Upper
43	100		
58	46.5	28.5	68.5
57	15.9	0.0	36.4



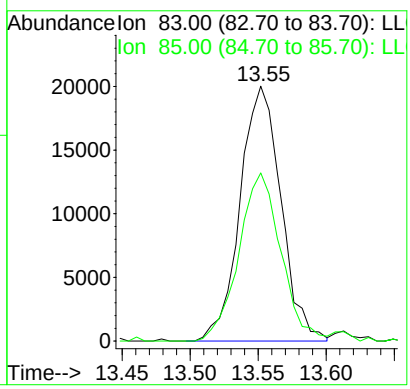
REASON # 2



#85
1122Tetrclta
Concen: 0.68 ug/L
RT: 13.55 min Scan# 1927
Delta R.T. -0.00 min
Lab File: LLCALW2.D
Acq: 9 Apr 2017 11:29

Tgt Ion: 83 Resp: 41874

Ion	Ratio	Lower	Upper
83	100		
85	67.7	47.7	87.7



Before Manual Integration

RJ 04/11/2017

REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW3.D Vial: 7
Acq On : 9 Apr 2017 11:58 Operator: RLD-AGK
Sample : CALIB. PT. 3 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 10 07:38:16 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:05 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1201130	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	955440	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	554277	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.95	113	325257	3.948	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 99 %			
45) SURR12DCAd4	7.35	102	65097	3.810	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 95 %			
61) SURRd8Tolule	9.79	98	1199808	3.981	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100 %			
83) SURR4BrFBenz	13.35	95	419987	3.946	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	109824	1.4474	ug/L	97
3) Chloromethan	2.15	50	130614	0.9079	ug/L	96
4) VinylChlorid	2.28	62	110834	1.1900	ug/L	98
5) Bromomethane	2.77	94	34548	0.9259	ug/L	85
6) Chloroethane	2.92	64	58344	0.9293	ug/L	95
7) Dichloroflmethane	3.24	67	147959	1.0452	ug/L	99
8) Trichlorofma	3.31	101	121928	1.1054	ug/L	95
9) Ethylether	3.75	59	48707	1.0742	ug/L	89
10) dichlorotfluoroethan	3.78	67	89840	1.1317	ug/L	95
11) propyleneoxide	3.82	58	39633	9.9764	ug/L	93
12) Acrolein	3.92	56	44332	4.9080	ug/L	96
13) 11dichlorthe	4.04	96	66525	0.9963	ug/L	99
14) Trichlorotfluoroeth	4.06	101	133119	2.1033	ug/L	98
15) Acetone	4.13	43	155807	7.0139	ug/L	99
16) Iodomethane	4.23	142	64188	1.8339	ug/L	96
17) Carbon Dislf	4.30	76	296200	1.9347	ug/L	99
18) allylchloride	4.54	41	250471	1.9548	ug/L	99
19) methylacetate	4.60	74	7345	0.9556	ug/L	85
20) Methylchlorid	4.71	84	109297	0.6907	ug/L	95
21) tbutylalcohol	4.90	59	173643	46.9031	ug/L	98
22) Acrylonitrile	5.03	53	78459	4.7096	ug/L	96
23) t12dichlorte	5.07	96	69972	0.9110	ug/L	98
24) MtBE	5.08	73	134475	1.0119	ug/L	96
25) Hexane	5.44	57	214714	2.3297	ug/L	97
26) 11dichlorota	5.60	63	148107	0.9818	ug/L	97
27) Vinylacetate	5.70	43	949176	10.2964	ug/L	99
28) chloroprene	5.73	53	273897	2.1274	ug/L	100
29) Diisopether	5.73	45	292984	1.0118	ug/L	98
30) ETBE	6.18	59	186795	1.0097	ug/L	99
31) 22dichloropr	6.34	77	86737	0.9391	ug/L	99
32) c12dichlorte	6.34	96	83651	0.9369	ug/L	99
33) 2Butanone	6.37	72	39989	10.0036	ug/L	99
34) propionitrile	6.43	54	60993	8.9152	ug/L	97
35) Ethylacetate	6.46	88	5879	3.8831	ug/L #	70
36) methacrylonitrile	6.63	67	34135	1.9792	ug/L #	86
37) Bromochlorma	6.64	128	36856	0.9974	ug/L	95
38) Tetrahydofur	6.71	42	145764	8.7010	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW3.D Vial: 7
Acq On : 9 Apr 2017 11:58 Operator: RLD-AGK
Sample : CALIB. PT. 3 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 10 07:38:16 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:05 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.74	83	144113	0.9523	ug/L	96
40) 111trichlota	6.96	97	109190	0.9388	ug/L	96
42) Cyclohexane	7.04	56	133383	1.1029	ug/L	98
43) Carbtetraclo	7.18	119	85261	1.1237	ug/L	99
44) 11dicloprope	7.18	110	37615	1.0934	ug/L	96
46) Benzene	7.43	78	306917	0.9839	ug/L	98
47) 12dichlorota	7.45	62	96320	0.9811	ug/L	97
48) TAME	7.58	73	133726	1.0114	ug/L	95
49) trichloroete	8.23	95	73208	0.9296	ug/L	93
50) methylcyclohexane	8.48	83	113815	1.0479	ug/L	95
51) 12dicloropra	8.51	63	89628	0.9972	ug/L	95
52) 23Dicl1propene	8.58	75	106836	0.9748	ug/L	98
53) Dibromometha	8.65	93	38702	0.8935	ug/L	97
54) methylmethacrylate	8.67	69	24635	0.9384	ug/L	97
55) 14dioxane	8.71	88	13968	40.1113	ug/L	94
56) Bromodiclrma	8.86	83	93351	0.9928	ug/L	99
57) 2Nitropropane	9.14	43	76456	9.2901	ug/L	98
58) 2CLEVE	9.25	63	39700	4.6402	ug/L	96
59) c13dicloproe	9.44	75	95892	0.9928	ug/L	100
60) 4Meth2Pentan	9.63	43	496959	9.4353	ug/L	97
62) Toluene	9.87	92	190824	0.9621	ug/L	98
63) t13Dicloprop	10.16	75	67250	0.9758	ug/L	96
64) ethylmethacrylate	10.29	69	105471	1.9607	ug/L	96
65) 112Triclotha	10.39	83	44915	0.9764	ug/L	96
66) Tetrachlorte	10.60	166	99993	1.0657	ug/L	98
67) 13Diclorpropa	10.62	76	87232	0.9627	ug/L	97
69) 2Hexanone	10.73	43	336967	9.1519	ug/L	98
70) Clorodibrmta	10.92	129	60791	1.0231	ug/L	98
71) 12Dibrometha	11.08	107	46420	0.9021	ug/L	99
72) Chlorobenzen	11.75	112	222493	0.9878	ug/L	99
73) 1Clhexane	11.71	91	87110	0.9310	ug/L	84
74) 1112Tetclota	11.86	131	71858	0.9897	ug/L	99
75) Ethylbenzene	11.90	91	353780	1.0304	ug/L	100
76) m p-Xylene	12.07	106	282720	2.0698	ug/L	97
77) o-Xylene	12.62	106	131232	0.9755	ug/L	95
78) Styrene	12.63	104	213492	1.0237	ug/L	99
79) Bromoform	12.89	173	33353	0.8593	ug/L	95
80) Isopropylben	13.14	105	343692	1.0719	ug/L	99
81) cyclohexanone	13.25	55	23109	17.6874	ug/L	91
84) Bromobenzene	13.57	156	96545	0.9694	ug/L	97
85) 1122Tetrclta	13.55	83	60735	0.8580	ug/L	93
86) 123Triclproa	13.61	75	57952	1.0421	ug/L	93
87) 14dichloro2butene	13.64	53	9804	0.8729	ug/L	92
88) n-Propylbenz	13.73	91	412101	1.0167	ug/L	100
89) 2chlorotolue	13.84	91	251907	1.0215	ug/L	99
90) 4chlorotolue	14.00	91	277660	1.0254	ug/L	98
91) 135Trimebenz	13.98	105	290688	1.0530	ug/L	99
92) tbutylbenzen	14.45	119	254088	1.0142	ug/L	99
93) 124Trimetben	14.53	105	291937	1.0233	ug/L	98
94) sbutylbenzen	14.77	105	367602	1.0315	ug/L	97
95) 13Diclorbenz	14.93	146	180142	0.9600	ug/L	97
96) pIsopropylto	14.99	119	308353	1.0398	ug/L	99
97) 14dichlorobe	15.05	146	180155	0.9709	ug/L	97
98) 12dichlorobe	15.60	146	167650	0.9272	ug/L	97
99) nButylbenzen	15.59	91	258880	0.9910	ug/L	99
100) 12dibromo3cl	16.70	157	8681	0.8227	ug/L	88
101) 135Trichlorobenzene	17.01	180	121166	0.9595	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW3.D Vial: 7
Acq On : 9 Apr 2017 11:58 Operator: RLD-AGK
Sample : CALIB. PT. 3 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 10 07:38:16 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:05 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

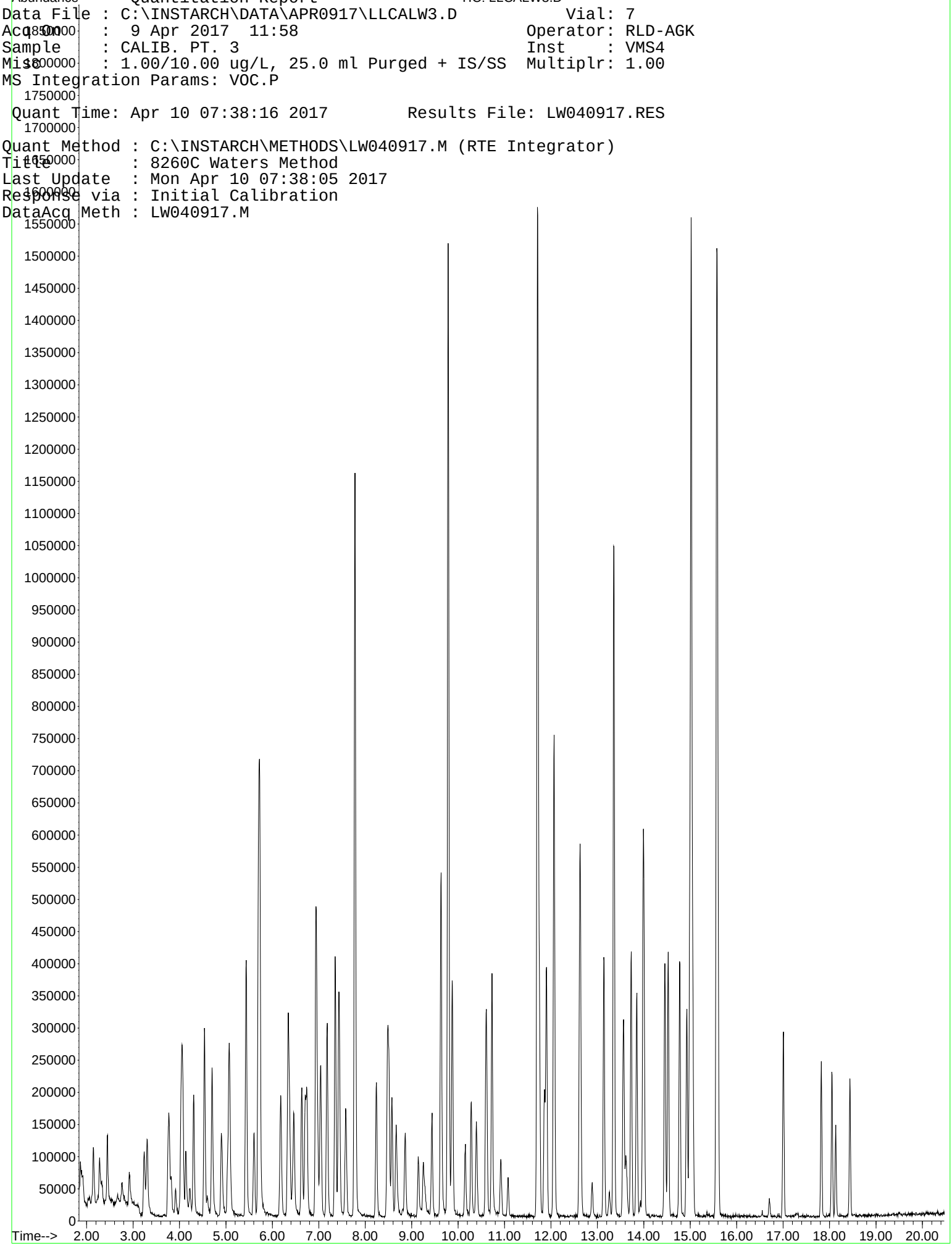
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	93486	0.8928	ug/L	99
103) Hexachlorobu	18.05	225	55710	0.9505	ug/L	99
104) Naphthalene	18.13	128	129263	0.8712	ug/L	100
105) 123Trichlben	18.44	180	81206	0.8893	ug/L	100

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\APR0917\LLCALW3.D Vial: 7
Acq On : 9 Apr 2017 11:58 Operator: RLD-AGK
Sample : CALIB. PT. 3 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 10 07:38:16 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:05 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW4.D Vial: 8
Acq On : 9 Apr 2017 12:26 Operator: RLD-AGK
Sample : CALIB. PT. 4 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 10 07:38:33 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:24 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1167161	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	933524	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	532663	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	324795	4.070	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102	%		
45) SURR12DCAd4	7.35	102	68765	4.192	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 105	%		
61) SURRd8Tolule	9.79	98	1175274	4.018	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100	%		
83) SURR4BrFBenz	13.35	95	421859	4.139	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 103	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	196274	2.3942	ug/L	97
3) Chloromethan	2.15	50	229353	1.6794	ug/L	99
4) VinylChlorid	2.28	62	203903	2.1508	ug/L	98
5) Bromomethane	2.76	94	58802	1.6524	ug/L	93
6) Chloroethane	2.92	64	100344	1.6744	ug/L	99
7) Dichloroflmethane	3.24	67	228527	1.6428	ug/L	98
8) Trichlorofma	3.31	101	187550	1.7049	ug/L	93
9) Ethylether	3.76	59	95899	2.1369	ug/L	94
10) dichlorotfluoroethan	3.78	67	157726	1.9795	ug/L	99
11) propyleneoxide	3.82	58	82385	21.3541	ug/L	95
12) Acrolein	3.92	56	89801	10.2785	ug/L	99
13) 11dichlorthe	4.04	96	128008	1.9748	ug/L	98
14) Trichlorotfluoroeth	4.06	101	256456	4.1168	ug/L	96
15) Acetone	4.13	43	304394	15.2392	ug/L	99
16) Iodomethane	4.22	142	155979	4.6833	ug/L	99
17) Carbon Dislf	4.30	76	571192	3.8711	ug/L	100
18) allylchloride	4.54	41	484547	3.9138	ug/L	99
19) methylacetate	4.60	74	14480	1.9679	ug/L	88
20) Methylchlorid	4.70	84	168543	1.1879	ug/L	99
21) tbutylalcohol	4.90	59	358712	101.2808	ug/L	99
22) Acrylonitrile	5.03	53	154650	9.6941	ug/L	98
23) t12dichlorte	5.07	96	136406	1.8692	ug/L	95
24) MtBE	5.08	73	264047	2.0387	ug/L	99
25) Hexane	5.44	57	409675	4.3934	ug/L	99
26) 11dichlorota	5.61	63	277112	1.8990	ug/L	99
27) Vinylacetate	5.70	43	2056568	22.7895	ug/L	99
28) chloroprene	5.72	53	529619	4.1669	ug/L	100
29) Diisopether	5.72	45	567428	2.0106	ug/L	100
30) ETBE	6.18	59	369343	2.0496	ug/L	100
31) 22dichloropr	6.33	77	165501	1.8726	ug/L	97
32) c12dichlorte	6.34	96	152928	1.7910	ug/L	95
33) 2Butanone	6.37	72	82283	21.1810	ug/L	97
34) propionitrile	6.43	54	123428	19.0837	ug/L	97
35) Ethylacetate	6.46	88	13531	9.9373	ug/L #	93
36) methacrylonitrile	6.63	67	65385	3.9117	ug/L	96
37) Bromochlorma	6.63	128	69066	1.9247	ug/L	92
38) Tetrahydofur	6.71	42	302750	19.2220	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW4.D Vial: 8
Acq On : 9 Apr 2017 12:26 Operator: RLD-AGK
Sample : CALIB. PT. 4 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 10 07:38:33 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:24 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.74	83	261184	1.7975 ug/L	96
40) 111trichlota	6.97	97	213055	1.9144 ug/L	98
42) Cyclohexane	7.04	56	258520	2.1447 ug/L	98
43) Carbtetraclo	7.18	119	168730	2.2199 ug/L	99
44) 11dicloprope	7.18	110	71347	2.0856 ug/L	96
46) Benzene	7.43	78	581591	1.9265 ug/L	99
47) 12dichlorota	7.45	62	176406	1.8579 ug/L	95
48) TAME	7.58	73	266915	2.0716 ug/L	95
49) trichloroete	8.23	95	146777	1.9524 ug/L	97
50) methylcyclohexane	8.48	83	231034	2.1632 ug/L	99
51) 12dicloropra	8.51	63	165162	1.8924 ug/L	99
52) 23Dicl1propene	8.58	75	206124	1.9478 ug/L	99
53) Dibromometha	8.66	93	74454	1.8173 ug/L	98
54) methylmethacrylate	8.67	69	55003	2.1899 ug/L	95
55) 14dioxane	8.69	88	30521	94.8883 ug/L	86
56) Bromodiclrma	8.86	83	172549	1.8919 ug/L	97
57) 2Nitropropane	9.14	43	178259	22.6933 ug/L	99
58) 2CLEVE	9.24	63	88085	10.7892 ug/L	97
59) c13dicloproe	9.43	75	190579	2.0342 ug/L	99
60) 4Meth2Pentan	9.63	43	1043231	20.6751 ug/L	99
62) Toluene	9.88	92	362246	1.8975 ug/L	100
63) t13Dicloprop	10.16	75	136083	2.0444 ug/L	99
64) ethylmethacrylate	10.28	69	220747	4.2440 ug/L	98
65) 112Triclotha	10.39	83	87786	1.9756 ug/L	99
66) Tetrachlorte	10.60	166	176959	1.9096 ug/L	98
67) 13Diclorpropa	10.62	76	169686	1.9453 ug/L	100
69) 2Hexanone	10.73	43	726728	20.6387 ug/L	98
70) Clorodibrmta	10.92	129	119068	2.0392 ug/L	96
71) 12Dibrometha	11.08	107	94517	1.9271 ug/L	98
72) Chlorobenzen	11.75	112	415371	1.8933 ug/L	99
73) 1Clhexane	11.71	91	175520	1.9537 ug/L	95
74) 1112Tetclota	11.87	131	137084	1.9373 ug/L	99
75) Ethylbenzene	11.90	91	666550	1.9719 ug/L	99
76) m p-Xylene	12.07	106	539156	4.0049 ug/L	99
77) o-Xylene	12.62	106	256891	1.9665 ug/L	99
78) Styrene	12.63	104	428871	2.0923 ug/L	100
79) Bromoform	12.89	173	67771	1.8523 ug/L	98
80) Isopropylben	13.14	105	644716	2.0216 ug/L	99
81) cyclohexanone	13.25	55	46674	37.6510 ug/L	97
84) Bromobenzene	13.57	156	179089	1.8856 ug/L	95
85) 1122Tetrclta	13.55	83	120860	1.8421 ug/L	97
86) 123Triclproa	13.61	75	100963	1.8696 ug/L	100
87) 14dichloro2butene	13.64	53	21143	2.0231 ug/L	93
88) n-Propylbenz	13.73	91	788224	2.0152 ug/L	99
89) 2chlorotolue	13.84	91	460599	1.9332 ug/L	100
90) 4chlorotolue	14.00	91	527119	2.0128 ug/L	99
91) 135Trimebenz	13.98	105	559322	2.0807 ug/L	98
92) tbutylbenzen	14.45	119	496412	2.0545 ug/L	99
93) 124Trimetben	14.53	105	574681	2.0840 ug/L	99
94) sbutylbenzen	14.77	105	722520	2.0932 ug/L	99
95) 13Diclorbenz	14.93	146	343738	1.9255 ug/L	95
96) pIsopropylto	14.99	119	614050	2.1334 ug/L	99
97) 14dichlorobe	15.05	146	342073	1.9324 ug/L	97
98) 12dichlorobe	15.60	146	313362	1.8369 ug/L	98
99) nButylbenzen	15.58	91	520174	2.0766 ug/L	100
100) 12dibromo3cl	16.70	157	18634	1.9531 ug/L	91
101) 135Trichlorobenzene	17.01	180	223684	1.8621 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW4.D Vial: 8
Acq On : 9 Apr 2017 12:26 Operator: RLD-AGK
Sample : CALIB. PT. 4 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 10 07:38:33 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:24 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	186170	1.9010	ug/L	98
103) Hexachlorobu	18.05	225	112673	2.0255	ug/L	97
104) Naphthalene	18.13	128	297380	2.1550	ug/L	100
105) 123Trichlben	18.44	180	165978	1.9452	ug/L	98

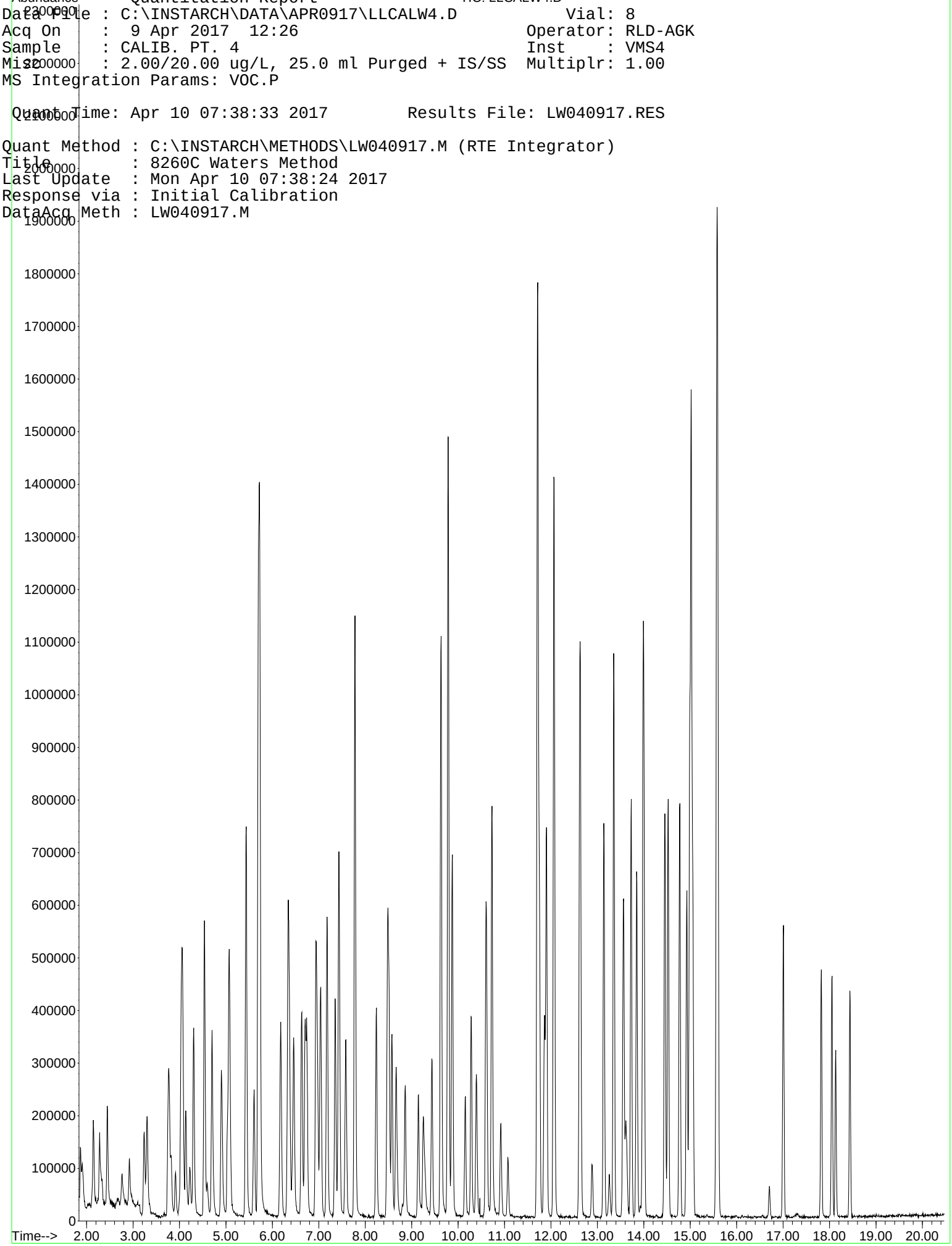
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: LLCALW4.D)

Data File : C:\INSTARCH\DATA\APR0917\LLCALW4.D Vial: 8
Acq On : 9 Apr 2017 12:26 Operator: RLD-AGK
Sample : CALIB. PT. 4 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 10 07:38:33 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:24 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW5.D Vial: 9
Acq On : 9 Apr 2017 12:54 Operator: RLD-AGK
Sample : CALIB. PT. 5 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 10 07:38:51 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:41 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1218359	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	973531	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	563042	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	330128	3.950	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 99 %			
45) SURR12DCAd4	7.35	102	63269	3.660	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 92 %			
61) SURRd8Tolule	9.79	98	1229031	4.022	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101 %			
83) SURR4BrFBenz	13.35	95	430034	3.964	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	366206	4.1171	ug/L	98
3) Chloromethan	2.15	50	465948	3.3766	ug/L	100
4) VinylChlorid	2.28	62	398852	3.9704	ug/L	100
5) Bromomethane	2.77	94	139050	3.8781	ug/L	100
6) Chloroethane	2.92	64	215796	3.5658	ug/L	100
7) Dichloroflmethane	3.24	67	531579	3.7963	ug/L	100
8) Trichlorofma	3.30	101	433215	3.8873	ug/L	100
9) Ethylether	3.75	59	196377	4.1354	ug/L	100
10) dichlorotfluoroethan	3.78	67	303500	3.6564	ug/L	100
11) propyleneoxide	3.82	58	150696	36.9190	ug/L	100
12) Acrolein	3.92	56	161764	17.6390	ug/L	100
13) 11dichlorthe	4.04	96	250865	3.7168	ug/L	100
14) Trichlorotfluoroeth	4.06	101	452951	6.9251	ug/L	100
15) Acetone	4.13	43	519275	26.1495	ug/L	100
16) Iodomethane	4.23	142	434945	12.0973	ug/L	100
17) Carbon Dislf	4.30	76	1116066	7.2929	ug/L	100
18) allylchloride	4.54	41	1019729	7.9247	ug/L	100
19) methylacetate	4.60	74	24091	3.1491	ug/L	100
20) Methylchlorid	4.70	84	305507	2.2451	ug/L	100
21) tbutylalcohol	4.90	59	578590	156.0977	ug/L	100
22) Acrylonitrile	5.03	53	288091	17.4063	ug/L	100
23) t12dichlorte	5.07	96	274649	3.6532	ug/L	100
24) MtBE	5.08	73	509003	3.7503	ug/L	100
25) Hexane	5.44	57	768682	7.7447	ug/L	100
26) 11dichlorota	5.61	63	585017	3.8798	ug/L	100
27) Vinylacetate	5.70	43	4136915	42.7244	ug/L	100
28) chloroprene	5.73	53	1049498	7.8448	ug/L	100
29) Diisopether	5.72	45	1158870	3.9296	ug/L	100
30) ETBE	6.18	59	755722	3.9977	ug/L	100
31) 22dichloropr	6.34	77	343842	3.7750	ug/L	100
32) c12dichlorte	6.34	96	327581	3.7536	ug/L	100
33) 2Butanone	6.37	72	153113	37.3169	ug/L	100
34) propionitrile	6.43	54	215955	32.2824	ug/L	100
35) Ethylacetate	6.46	88	26772	18.8650	ug/L	100
36) methacrylonitrile	6.63	67	119213	6.8626	ug/L	100
37) Bromochlorma	6.64	128	138934	3.7373	ug/L	100
38) Tetrahydofur	6.70	42	529354	32.4495	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW5.D Vial: 9
Acq On : 9 Apr 2017 12:54 Operator: RLD-AGK
Sample : CALIB. PT. 5 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 10 07:38:51 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:41 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	534623	3.5977	ug/L	100
40)	111trichlota	6.97	97	432545	3.7555	ug/L	100
42)	Cyclohexane	7.04	56	477243	3.7387	ug/L	100
43)	Carbtetraclo	7.18	119	340185	4.1953	ug/L	100
44)	11dicloprope	7.18	110	144569	4.0140	ug/L	100
46)	Benzene	7.43	78	1191912	3.8102	ug/L	100
47)	12dichlorota	7.44	62	345806	3.5392	ug/L	100
48)	TAME	7.58	73	540985	3.9937	ug/L	100
49)	trichloroete	8.24	95	299461	3.8342	ug/L	100
50)	methylcyclohexane	8.48	83	434710	3.8366	ug/L	100
51)	12dicloropra	8.51	63	346616	3.8460	ug/L	100
52)	23Dicl1propene	8.58	75	426601	3.8821	ug/L	100
53)	Dibromometha	8.66	93	146254	3.4835	ug/L	100
54)	methylmethacrylate	8.67	69	102514	3.8371	ug/L	100
55)	14dioxane	8.69	88	43659	131.3730	ug/L	100
56)	Bromodiclrma	8.86	83	354764	3.7670	ug/L	100
57)	2Nitropropane	9.14	43	335040	39.7884	ug/L	100
58)	2CLEVE	9.24	63	179960	20.7882	ug/L	100
59)	c13dicloproe	9.43	75	392333	3.9981	ug/L	100
60)	4Meth2Pentan	9.63	43	1825106	34.4183	ug/L	100
62)	Toluene	9.87	92	743434	3.7691	ug/L	100
63)	t13Dicloprop	10.15	75	278887	3.9960	ug/L	100
64)	ethylmethacrylate	10.28	69	434091	7.8986	ug/L	100
65)	112Triclotha	10.39	83	161077	3.4811	ug/L	100
66)	Tetrachlorte	10.60	166	362044	3.7768	ug/L	100
67)	13Diclorpropa	10.61	76	323623	3.5736	ug/L	100
69)	2Hexanone	10.73	43	1263648	34.1938	ug/L	100
70)	Clorodibrmta	10.92	129	244643	4.0019	ug/L	100
71)	12Dibrometha	11.08	107	187620	3.6951	ug/L	100
72)	Chlorobenzen	11.75	112	842313	3.7212	ug/L	100
73)	1Clhexane	11.71	91	348191	3.7336	ug/L	100
74)	1112Tetclota	11.86	131	285985	3.9000	ug/L	100
75)	Ethylbenzene	11.90	91	1373367	3.9070	ug/L	100
76)	m p-Xylene	12.07	106	1105489	7.8723	ug/L	100
77)	o-Xylene	12.62	106	543465	4.0026	ug/L	100
78)	Styrene	12.63	104	894264	4.1452	ug/L	100
79)	Bromoform	12.89	173	135080	3.5933	ug/L	100
80)	Isopropylben	13.14	105	1342181	4.0270	ug/L	100
81)	cyclohexanone	13.26	55	71892	56.2715	ug/L	100
84)	Bromobenzene	13.56	156	377080	3.7995	ug/L	100
85)	1122Tetrclta	13.55	83	220555	3.2312	ug/L	100
86)	123Triclproa	13.61	75	186095	3.3031	ug/L	100
87)	14dichloro2butene	13.64	53	41170	3.7183	ug/L	100
88)	n-Propylbenz	13.73	91	1597520	3.8580	ug/L	100
89)	2chlorotolue	13.85	91	942385	3.7670	ug/L	100
90)	4chlorotolue	14.00	91	1089065	3.9292	ug/L	100
91)	135Trimebenz	13.98	105	1156704	4.0383	ug/L	100
92)	tbutylbenzen	14.45	119	1004671	3.9124	ug/L	100
93)	124Trimetben	14.53	105	1172955	3.9906	ug/L	100
94)	sbutylbenzen	14.77	105	1462368	3.9710	ug/L	100
95)	13Diclorbenz	14.93	146	721679	3.8531	ug/L	100
96)	pIsopropylto	14.99	119	1255123	4.0710	ug/L	100
97)	14dichlorobe	15.05	146	702962	3.7824	ug/L	100
98)	12dichlorobe	15.60	146	636399	3.5877	ug/L	100
99)	nButylbenzen	15.58	91	1034371	3.8769	ug/L	100
100)	12dibromo3cl	16.70	157	35919	3.5827	ug/L	100
101)	135Trichlorobenzene	17.01	180	491752	3.9269	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW5.D Vial: 9
Acq On : 9 Apr 2017 12:54 Operator: RLD-AGK
Sample : CALIB. PT. 5 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 10 07:38:51 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:41 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	394886	3.8528	ug/L	100
103) Hexachlorobu	18.05	225	226774	3.8469	ug/L	100
104) Naphthalene	18.13	128	576848	3.8943	ug/L	100
105) 123Trichlben	18.44	180	336717	3.7539	ug/L	100

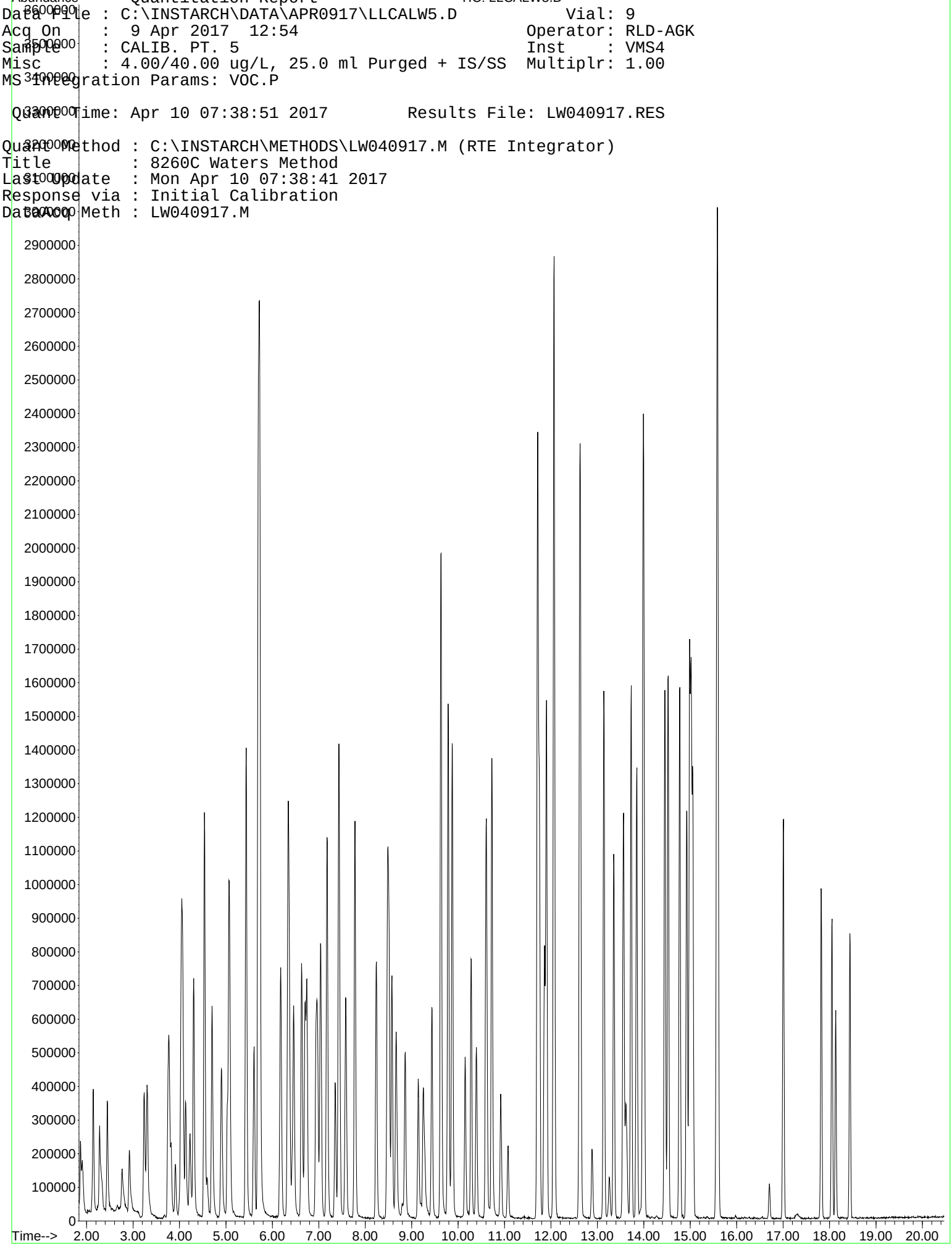
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: LLCALW5.D)

Data File : C:\INSTARCH\DATA\APR0917\LLCALW5.D Vial: 9
Acq On : 9 Apr 2017 12:54 Operator: RLD-AGK
Sample : CALIB. PT. 5 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 10 07:38:51 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:38:41 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW6.D Vial: 10
Acq On : 9 Apr 2017 13:23 Operator: RLD-AGK
Sample : CALIB. PT. 6 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 10 07:39:10 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:00 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1239714	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1001776	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	583125	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	338628	3.981	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100	%		
45) SURR12DCAd4	7.36	102	63478	3.608	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 90	%		
61) SURRd8Tolule	9.79	98	1246349	4.008	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 100	%		
83) SURR4BrFBenz	13.35	95	452922	4.031	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 101	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	583073	6.3193	ug/L	98
3) Chloromethan	2.15	50	713078	5.0785	ug/L	99
4) VinylChlorid	2.28	62	624502	6.1096	ug/L	99
5) Bromomethane	2.76	94	197505	5.4135	ug/L	97
6) Chloroethane	2.92	64	320339	5.2020	ug/L	100
7) Dichloroflmethane	3.24	67	713580	5.0083	ug/L	99
8) Trichlorofma	3.31	101	555857	4.9047	ug/L	96
9) Ethylether	3.75	59	275311	5.6977	ug/L	97
10) dichlorotfluoroethan	3.78	67	428921	5.0783	ug/L	97
11) propyleneoxide	3.82	58	232453	55.9676	ug/L	97
12) Acrolein	3.91	56	257025	27.5218	ug/L	95
13) 11dichlorthe	4.04	96	351755	5.1219	ug/L	97
14) Trichlorotfluoroeth	4.06	101	649002	9.7515	ug/L	97
15) Acetone	4.13	43	798698	39.5278	ug/L	99
16) Iodomethane	4.23	142	622205	17.0075	ug/L	97
17) Carbon Dislf	4.31	76	1605076	10.3077	ug/L	99
18) allylchloride	4.54	41	1547162	11.8165	ug/L	99
19) methylacetate	4.59	74	40017	5.1408	ug/L	98
20) Methylchlorid	4.70	84	451700	3.2622	ug/L	98
21) tbutylalcohol	4.90	59	1047706	278.0182	ug/L	98
22) Acrylonitrile	5.03	53	469545	27.8810	ug/L	98
23) t12dichlorte	5.07	96	428058	5.5956	ug/L	98
24) MtBE	5.08	73	833744	6.0372	ug/L	99
25) Hexane	5.44	57	1281188	12.6860	ug/L	99
26) 11dichlorota	5.61	63	904267	5.8937	ug/L	100
27) Vinylacetate	5.69	43	6774381	68.7579	ug/L	98
28) chloroprene	5.73	53	1663271	12.2184	ug/L	100
29) Diisopether	5.72	45	1848941	6.1616	ug/L	99
30) ETBE	6.18	59	1228046	6.3843	ug/L	99
31) 22dichloropr	6.34	77	553187	5.9688	ug/L	99
32) c12dichlorte	6.34	96	511384	5.7588	ug/L	99
33) 2Butanone	6.37	72	248959	59.6314	ug/L	98
34) propionitrile	6.43	54	355206	52.1840	ug/L	99
35) Ethylacetate	6.46	88	42962	29.7519	ug/L #	90
36) methacrylonitrile	6.62	67	204906	11.5924	ug/L	98
37) Bromochlorma	6.64	128	214664	5.6749	ug/L	98
38) Tetrahydofur	6.70	42	898708	54.2227	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW6.D Vial: 10
Acq On : 9 Apr 2017 13:23 Operator: RLD-AGK
Sample : CALIB. PT. 6 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 10 07:39:10 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:00 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	824887	5.4553	ug/L	100
40)	111trichlota	6.97	97	686186	5.8550	ug/L	99
42)	Cyclohexane	7.04	56	783832	6.0350	ug/L	99
43)	Carbtetraclo	7.18	119	561653	6.8073	ug/L	99
44)	11dicloprope	7.18	110	225702	6.1588	ug/L	96
46)	Benzene	7.43	78	1854756	5.8270	ug/L	99
47)	12dichlorota	7.45	62	547018	5.5022	ug/L	98
48)	TAME	7.58	73	918804	6.6660	ug/L	97
49)	trichloroete	8.24	95	465619	5.8590	ug/L	98
50)	methylcyclohexane	8.48	83	719524	6.2408	ug/L	98
51)	12dicloropra	8.51	63	541476	5.9046	ug/L	98
52)	23Dicl1propene	8.58	75	679517	6.0771	ug/L	98
53)	Dibromometha	8.66	93	223621	5.2345	ug/L	94
54)	methylmethacrylate	8.67	69	171848	6.3214	ug/L	97
55)	14dioxane	8.69	88	72377	214.0360	ug/L	92
56)	Bromodiclrma	8.86	83	582609	6.0798	ug/L	98
57)	2Nitropropane	9.14	43	624463	72.8820	ug/L	97
58)	2CLEVE	9.25	63	344828	39.1469	ug/L	98
59)	c13dicloproe	9.43	75	650101	6.5108	ug/L	99
60)	4Meth2Pentan	9.63	43	3125745	57.9307	ug/L	100
62)	Toluene	9.88	92	1161841	5.7890	ug/L	100
63)	t13Dicloprop	10.16	75	483109	6.8029	ug/L	99
64)	ethylmethacrylate	10.28	69	776064	13.8779	ug/L	97
65)	112Triclotha	10.39	83	265432	5.6376	ug/L	98
66)	Tetrachlorte	10.60	166	566814	5.8111	ug/L	97
67)	13Diclorpropa	10.61	76	529355	5.7450	ug/L	99
69)	2Hexanone	10.73	43	2211227	58.1478	ug/L	99
70)	Clorodibrmta	10.92	129	409362	6.5076	ug/L	97
71)	12Dibrometha	11.08	107	307455	5.8845	ug/L	97
72)	Chlorobenzen	11.75	112	1326648	5.6957	ug/L	98
73)	1Clhexane	11.72	91	564980	5.8875	ug/L	100
74)	1112Tetclota	11.86	131	475857	6.3064	ug/L	99
75)	Ethylbenzene	11.90	91	2139642	5.9153	ug/L	99
76)	m p-Xylene	12.07	106	1737505	12.0242	ug/L	100
77)	o-Xylene	12.62	106	871250	6.2359	ug/L	97
78)	Styrene	12.63	104	1440041	6.4868	ug/L	99
79)	Bromoform	12.88	173	235621	6.0910	ug/L	98
80)	Isopropylben	13.14	105	2159937	6.2979	ug/L	99
81)	cyclohexanone	13.26	55	131568	100.0777	ug/L	97
84)	Bromobenzene	13.56	156	613124	5.9651	ug/L	99
85)	1122Tetrclta	13.55	83	384457	5.4385	ug/L	97
86)	123Triclproa	13.62	75	325633	5.5758	ug/L	98
87)	14dichloro2butene	13.64	53	78029	6.8045	ug/L	98
88)	n-Propylbenz	13.73	91	2512380	5.8585	ug/L	98
89)	2chlorotolue	13.84	91	1537251	5.9333	ug/L	99
90)	4chlorotolue	14.00	91	1761471	6.1363	ug/L	100
91)	135Trimebenz	13.98	105	1847671	6.2284	ug/L	99
92)	tbutylbenzen	14.45	119	1654864	6.2224	ug/L	99
93)	124Trimetben	14.53	105	1908610	6.2680	ug/L	99
94)	sbutylbenzen	14.77	105	2356452	6.1785	ug/L	100
95)	13Diclorbenz	14.93	146	1142252	5.8885	ug/L	95
96)	pIsopropylto	14.99	119	2054353	6.4339	ug/L	100
97)	14dichlorobe	15.05	146	1141790	5.9320	ug/L	99
98)	12dichlorobe	15.60	146	1067444	5.8104	ug/L	99
99)	nButylbenzen	15.58	91	1716972	6.2135	ug/L	99
100)	12dibromo3cl	16.70	157	64488	6.2107	ug/L	95
101)	135Trichlorobenzene	17.01	180	826006	6.3690	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW6.D Vial: 10
Acq On : 9 Apr 2017 13:23 Operator: RLD-AGK
Sample : CALIB. PT. 6 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 10 07:39:10 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:00 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	677921	6.3865 ug/L	96
103) Hexachlorobu	18.05	225	384563	6.2988 ug/L	99
104) Naphthalene	18.13	128	1039432	6.7756 ug/L	100
105) 123Trichlben	18.44	180	585568	6.3034 ug/L	99

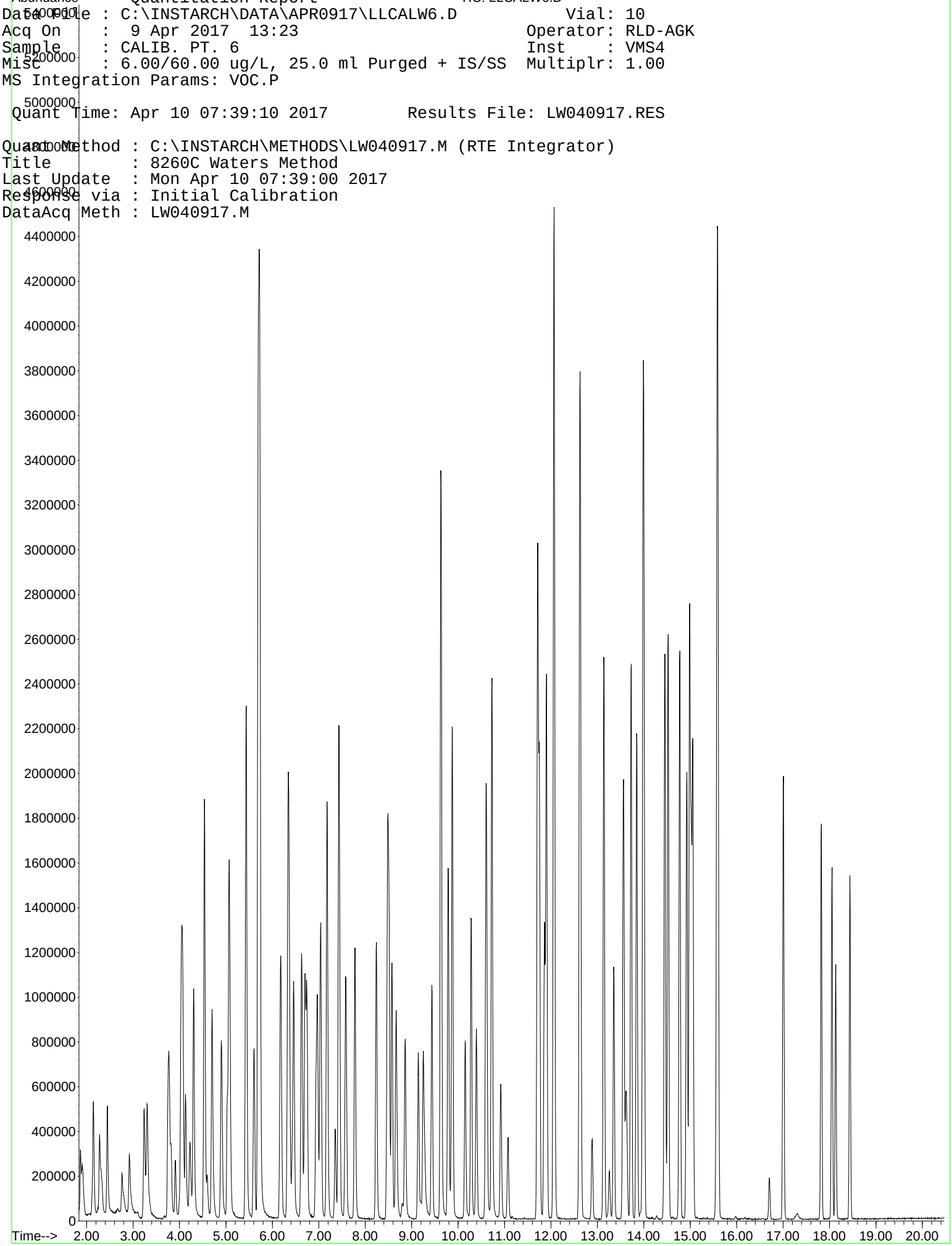
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: LLCALW6.D)

Data File : C:\INSTARCH\DATA\APR0917\LLCALW6.D Vial: 10
Acq On : 9 Apr 2017 13:23 Operator: RLD-AGK
Sample : CALIB. PT. 6 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 10 07:39:10 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:00 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW7.D Vial: 11
Acq On : 9 Apr 2017 13:51 Operator: RLD-AGK
Sample : CALIB. PT. 7 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 10 07:39:27 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:18 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1244261	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	986253	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	574986	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	331891	3.891	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 97 %			
45) SURR12DCAd4	7.35	102	66535	3.831	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 96 %			
61) SURRd8Tolule	9.79	98	1227925	3.933	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 98 %			
83) SURR4BrFBenz	13.35	95	454375	4.096	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 102 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	661731	7.0828	ug/L	99
3) Chloromethan	2.15	50	842919	6.1384	ug/L	99
4) VinylChlorid	2.28	62	738951	7.1810	ug/L	100
5) Bromomethane	2.77	94	268507	7.4542	ug/L	99
6) Chloroethane	2.92	64	385363	6.3764	ug/L	97
7) Dichloroflmethane	3.24	67	992497	7.1371	ug/L	94
8) Trichlorofma	3.31	101	759193	6.8838	ug/L	92
9) Ethylether	3.75	59	401439	8.3478	ug/L	99
10) dichlorotfluoroethan	3.78	67	558336	6.7595	ug/L	99
11) propyleneoxide	3.82	58	356144	86.4031	ug/L	99
12) Acrolein	3.91	56	373476	40.4013	ug/L	97
13) 11dichlorthe	4.04	96	468974	6.9738	ug/L	100
14) Trichlorotfluoroeth	4.06	101	842580	13.0205	ug/L	100
15) Acetone	4.13	43	1064333	55.6461	ug/L	99
16) Iodomethane	4.23	142	900710	22.9352	ug/L	100
17) Carbon Dislf	4.30	76	2113916	13.8514	ug/L	100
18) allylchloride	4.54	41	1812943	13.8310	ug/L	99
19) methylacetate	4.59	74	54179	7.1391	ug/L	96
20) Methylchlorid	4.70	84	553844	4.3134	ug/L	99
21) tbutylalcohol	4.90	59	1394623	373.2819	ug/L	95
22) Acrylonitrile	5.03	53	642566	38.4681	ug/L	99
23) t12dichlorte	5.07	96	517433	6.8158	ug/L	97
24) MtBE	5.08	73	1085376	7.8225	ug/L	98
25) Hexane	5.44	57	1456816	14.2366	ug/L	100
26) 11dichlorota	5.61	63	1081969	7.0469	ug/L	99
27) Vinylacetate	5.69	43	8574738	84.6535	ug/L	97
28) chloroprene	5.73	53	1959849	14.3011	ug/L	99
29) Diisopether	5.72	45	2271767	7.5093	ug/L	99
30) ETBE	6.18	59	1545756	7.9221	ug/L	100
31) 22dichloropr	6.34	77	659152	7.0923	ug/L	99
32) c12dichlorte	6.34	96	618928	6.9913	ug/L	99
33) 2Butanone	6.37	72	325973	77.8725	ug/L	96
34) propionitrile	6.43	54	474847	71.0483	ug/L	99
35) Ethylacetate	6.46	88	61044	42.1893	ug/L	97
36) methacrylonitrile	6.62	67	273818	15.5223	ug/L	94
37) Bromochlorma	6.64	128	270762	7.1967	ug/L	99
38) Tetrahydofur	6.70	42	1197634	73.1682	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW7.D Vial: 11
Acq On : 9 Apr 2017 13:51 Operator: RLD-AGK
Sample : CALIB. PT. 7 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 10 07:39:27 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:18 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	1004808	6.7226	ug/L	100
40)	111trichlota	6.97	97	819429	6.9946	ug/L	99
42)	Cyclohexane	7.04	56	910838	6.9805	ug/L	99
43)	Carbtetraclo	7.18	119	665613	7.8615	ug/L	99
44)	11dicloprope	7.18	110	264409	7.1571	ug/L	96
46)	Benzene	7.43	78	2221936	6.9886	ug/L	99
47)	12dichlorota	7.45	62	694482	7.0575	ug/L	98
48)	TAME	7.58	73	1172102	8.3187	ug/L	96
49)	trichloroete	8.24	95	564276	7.1023	ug/L	99
50)	methylcyclohexane	8.48	83	834689	7.1653	ug/L	98
51)	12dicloropra	8.51	63	661596	7.2072	ug/L	99
52)	23Dicl1propene	8.58	75	833492	7.4111	ug/L	98
53)	Dibromometha	8.65	93	293536	6.9947	ug/L	94
54)	methylmethacrylate	8.67	69	232839	8.4582	ug/L	100
55)	14dioxane	8.69	88	83602	258.6815	ug/L	97
56)	Bromodiclrma	8.86	83	729490	7.5679	ug/L	100
57)	2Nitropropane	9.14	43	863698	96.9653	ug/L	97
58)	2CLEVE	9.24	63	471108	50.7106	ug/L	99
59)	c13dicloproe	9.43	75	817546	8.0437	ug/L	98
60)	4Meth2Pentan	9.63	43	4062100	75.4430	ug/L	98
62)	Toluene	9.87	92	1402800	7.0051	ug/L	99
63)	t13Dicloprop	10.15	75	620060	8.5097	ug/L	99
64)	ethylmethacrylate	10.28	69	998648	17.3407	ug/L	99
65)	112Triclotha	10.39	83	342262	7.3165	ug/L	99
66)	Tetrachlorte	10.60	166	672854	6.9093	ug/L	99
67)	13Diclorpropa	10.62	76	684866	7.4584	ug/L	100
69)	2Hexanone	10.73	43	2860031	76.7880	ug/L	98
70)	Clorodibrmta	10.92	129	527788	8.4038	ug/L	99
71)	12Dibrometha	11.08	107	397249	7.7476	ug/L	97
72)	Chlorobenzen	11.75	112	1629278	7.1656	ug/L	98
73)	1Clhexane	11.71	91	668645	7.0996	ug/L	97
74)	1112Tetclota	11.86	131	579092	7.7295	ug/L	99
75)	Ethylbenzene	11.90	91	2579811	7.2615	ug/L	99
76)	m p-Xylene	12.07	106	2062447	14.4927	ug/L	100
77)	o-Xylene	12.62	106	1048028	7.5696	ug/L	98
78)	Styrene	12.63	104	1749667	7.8988	ug/L	98
79)	Bromoform	12.88	173	311436	8.1570	ug/L	97
80)	Isopropylben	13.14	105	2547167	7.4819	ug/L	99
81)	cyclohexanone	13.26	55	163450	129.8794	ug/L	99
84)	Bromobenzene	13.57	156	745409	7.3619	ug/L	97
85)	1122Tetrclta	13.55	83	495374	7.2193	ug/L	96
86)	123Triclproa	13.62	75	447934	7.8712	ug/L	98
87)	14dichloro2butene	13.63	53	105379	9.1159	ug/L	98
88)	n-Propylbenz	13.73	91	3010594	7.1477	ug/L	98
89)	2chlorotolue	13.85	91	1842286	7.2246	ug/L	99
90)	4chlorotolue	14.00	91	2115080	7.4442	ug/L	99
91)	135Trimebenz	13.98	105	2230550	7.5774	ug/L	99
92)	tbutylbenzen	14.45	119	1975459	7.4867	ug/L	99
93)	124Trimetben	14.53	105	2289155	7.5678	ug/L	98
94)	sbutylbenzen	14.77	105	2816596	7.4526	ug/L	99
95)	13Diclorbenz	14.93	146	1414913	7.4204	ug/L	97
96)	pIsopropylto	14.99	119	2459125	7.7176	ug/L	99
97)	14dichlorobe	15.05	146	1404547	7.4145	ug/L	99
98)	12dichlorobe	15.60	146	1314773	7.2964	ug/L	100
99)	nButylbenzen	15.58	91	2098853	7.6576	ug/L	99
100)	12dibromo3cl	16.70	157	86286	8.3689	ug/L	98
101)	135Trichlorobenzene	17.01	180	1021926	7.9101	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW7.D Vial: 11
Acq On : 9 Apr 2017 13:51 Operator: RLD-AGK
Sample : CALIB. PT. 7 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 10 07:39:27 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:18 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	854835	8.0804	ug/L	97
103) Hexachlorobu	18.05	225	477505	7.8665	ug/L	98
104) Naphthalene	18.13	128	1398564	9.0507	ug/L	99
105) 123Trichlben	18.44	180	742964	8.0431	ug/L	100

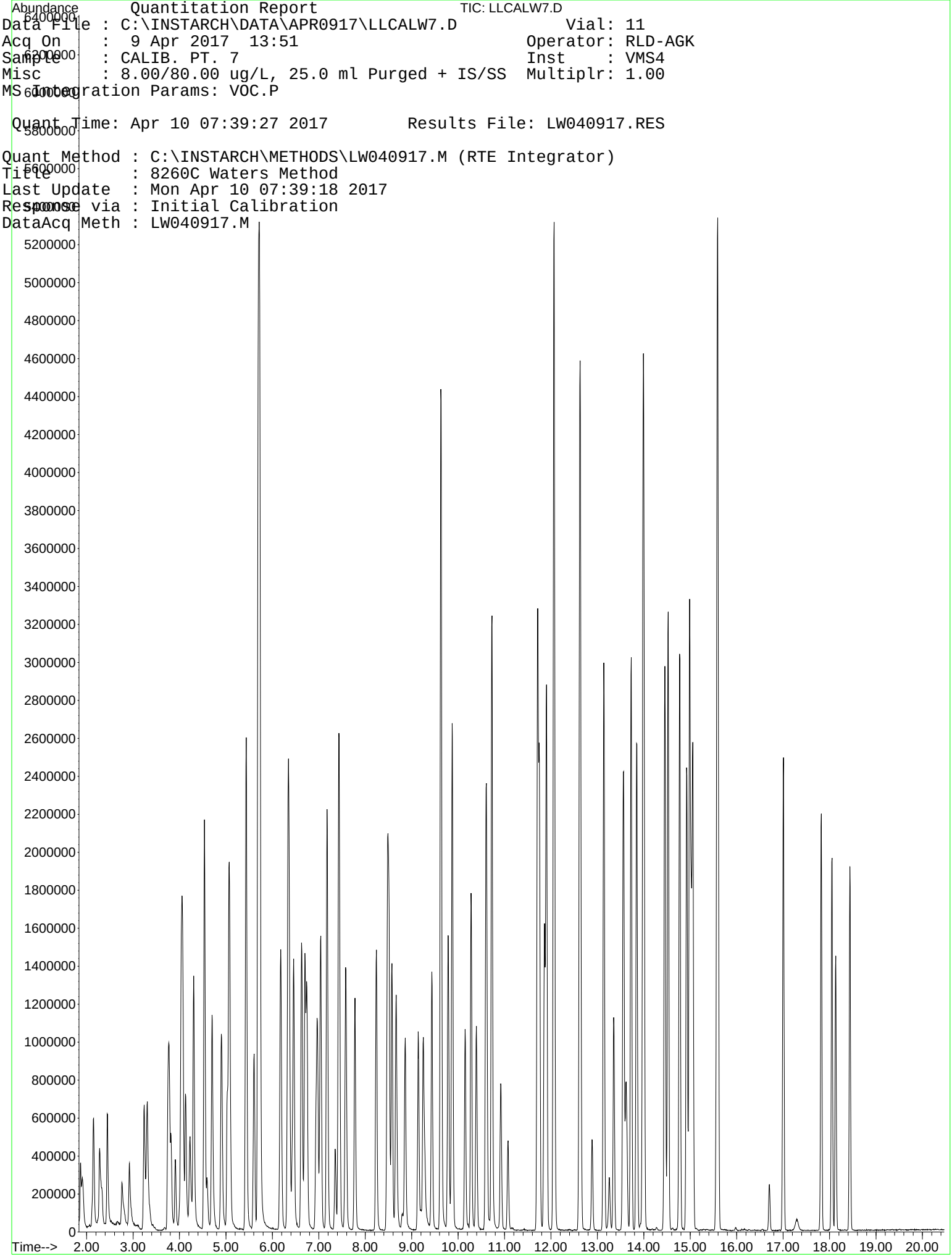
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: LLCALW7.D)

Data File : C:\INSTARCH\DATA\APR0917\LLCALW7.D Vial: 11
Acq On : 9 Apr 2017 13:51 Operator: RLD-AGK
Sample : CALIB. PT. 7 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 10 07:39:27 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:18 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW8.D Vial: 12
Acq On : 9 Apr 2017 14:19 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 10 07:39:47 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:36 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1320627	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1042946	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	610691	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	352553	3.909	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 98	%		
45) SURR12DCAd4	7.35	102	71426	3.898	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 97	%		
61) SURRd8Tolule	9.79	98	1294250	3.915	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 98	%		
83) SURR4BrFBenz	13.35	95	475831	4.025	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 101	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	1652832	16.9455	ug/L	99
3) Chloromethan	2.15	50	1897857	13.4694	ug/L	100
4) VinylChlorid	2.28	62	1718518	15.9681	ug/L	99
5) Bromomethane	2.77	94	678311	17.9168	ug/L	98
6) Chloroethane	2.92	64	891534	14.3138	ug/L	97
7) Dichloroflmethane	3.24	67	2155463	14.8323	ug/L	92
8) Trichlorofma	3.31	101	1822178	15.8833	ug/L	95
9) Ethylether	3.75	59	829942	16.1600	ug/L	99
10) dichlorotfluoroethan	3.78	67	1325794	15.4651	ug/L	99
11) propyleneoxide	3.82	58	714603	161.4961	ug/L	98
12) Acrolein	3.91	56	745607	75.8843	ug/L	96
13) 11dichlorthe	4.04	96	1118767	15.9671	ug/L	98
14) Trichlorotfluoroeth	4.06	101	2097172	31.3683	ug/L	99
15) Acetone	4.13	43	2001338	103.0669	ug/L	98
16) Iodomethane	4.23	142	2303546	52.0419	ug/L	99
17) Carbon Dislf	4.30	76	4694533	29.5489	ug/L	99
18) allylchloride	4.54	41	3930516	28.8100	ug/L	100
19) methylacetate	4.60	74	109347	13.8233	ug/L	94
20) Methylchlorid	4.71	84	1169259	9.1843	ug/L	98
21) tbutylalcohol	4.90	59	2612770	665.2374	ug/L	92
22) Acrylonitrile	5.03	53	1224402	69.4419	ug/L	99
23) t12dichlorte	5.07	96	1173781	14.8820	ug/L	96
24) MtBE	5.08	73	2237105	15.2391	ug/L	99
25) Hexane	5.44	57	3556365	33.2685	ug/L	99
26) 11dichlorota	5.61	63	2352901	14.6884	ug/L	98
27) Vinylacetate	5.70	43	13839257	127.6657	ug/L	91
28) chloroprene	5.73	53	4377386	30.5584	ug/L	99
29) Diisopether	5.72	45	4618544	14.5109	ug/L	98
30) ETBE	6.18	59	3292870	15.9224	ug/L	99
31) 22dichloropr	6.34	77	1579952	16.2808	ug/L	98
32) c12dichlorte	6.34	96	1341940	14.5437	ug/L	99
33) 2Butanone	6.37	72	627306	141.7314	ug/L	100
34) propionitrile	6.43	54	897812	128.6219	ug/L	99
35) Ethylacetate	6.46	88	113802	73.4339	ug/L #	91
36) methacrylonitrile	6.62	67	532667	28.5717	ug/L	97
37) Bromochlorma	6.63	128	553950	14.0742	ug/L	99
38) Tetrahydofur	6.70	42	2272274	132.4102	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW8.D Vial: 12
Acq On : 9 Apr 2017 14:19 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 10 07:39:47 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:36 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	2173029	14.0176	ug/L	100
40)	111trichlota	6.97	97	1940785	15.8938	ug/L	99
42)	Cyclohexane	7.04	56	2306017	16.9597	ug/L	99
43)	Carbtetraclo	7.18	119	1657123	18.4861	ug/L	100
44)	11dicloprope	7.18	110	645271	16.7078	ug/L	99
46)	Benzene	7.43	78	4718325	14.2395	ug/L	98
47)	12dichlorota	7.45	62	1427417	13.9009	ug/L	97
48)	TAME	7.58	73	2501666	16.6336	ug/L	95
49)	trichloroete	8.24	95	1281352	15.4427	ug/L	99
50)	methylcyclohexane	8.48	83	2126166	17.4566	ug/L	98
51)	12dicloropra	8.51	63	1411481	14.6951	ug/L	98
52)	23Dicl1propene	8.58	75	1828965	15.4849	ug/L	98
53)	Dibromometha	8.66	93	598823	13.6900	ug/L	94
54)	methylmethacrylate	8.67	69	492065	16.7046	ug/L	100
55)	14dioxane	8.69	88	147349	452.3962	ug/L	96
56)	Bromodiclrma	8.86	83	1545649	15.2252	ug/L	99
57)	2Nitropropane	9.14	43	1803135	185.1196	ug/L	94
58)	2CLEVE	9.25	63	998300	97.5142	ug/L	98
59)	c13dicloproe	9.43	75	1770679	16.4012	ug/L	97
60)	4Meth2Pentan	9.63	43	7131301	125.8106	ug/L	94
62)	Toluene	9.87	92	3040474	14.5638	ug/L	96
63)	t13Dicloprop	10.15	75	1326590	16.9985	ug/L	97
64)	ethylmethacrylate	10.28	69	2052492	33.1817	ug/L	97
65)	112Triclotha	10.39	83	696240	14.1960	ug/L	99
66)	Tetrachlorte	10.60	166	1573603	15.5267	ug/L	98
67)	13Diclorpropa	10.62	76	1399670	14.5016	ug/L	99
69)	2Hexanone	10.73	43	5191169	132.5599	ug/L	96
70)	Clorodibrmta	10.92	129	1135695	16.9779	ug/L	98
71)	12Dibrometha	11.08	107	829235	15.3628	ug/L	98
72)	Chlorobenzen	11.75	112	3458440	14.6010	ug/L	98
73)	1Clhexane	11.71	91	1627776	16.6111	ug/L	96
74)	1112Tetclota	11.86	131	1303381	16.5313	ug/L	98
75)	Ethylbenzene	11.90	91	5507956	14.8567	ug/L	95
76)	m p-Xylene	12.07	106	4503184	30.3317	ug/L	90
77)	o-Xylene	12.62	106	2293404	15.7855	ug/L	95
78)	Styrene	12.63	104	3718277	15.9023	ug/L	96
79)	Bromoform	12.88	173	665372	16.4338	ug/L	98
80)	Isopropylben	13.14	105	5561453	15.5922	ug/L	95
81)	cyclohexanone	13.25	55	314197	242.6183	ug/L	99
84)	Bromobenzene	13.56	156	1617871	15.2177	ug/L	99
85)	1122Tetrclta	13.55	83	973819	13.5510	ug/L	99
86)	123Triclproa	13.62	75	873288	14.4818	ug/L	97
87)	14dichloro2butene	13.64	53	219260	17.5095	ug/L	95
88)	n-Propylbenz	13.73	91	6398050	14.5231	ug/L	94
89)	2chlorotolue	13.85	91	3983047	14.9130	ug/L	97
90)	4chlorotolue	14.00	91	4534813	15.1782	ug/L	96
91)	135Trimebenz	13.98	105	4812886	15.5110	ug/L	97
92)	tbutylbenzen	14.45	119	4396306	15.8324	ug/L	98
93)	124Trimetben	14.53	105	4908555	15.3974	ug/L	97
94)	sbutylbenzen	14.77	105	6101136	15.3496	ug/L	96
95)	13Diclorbenz	14.93	146	3033778	15.1368	ug/L	95
96)	pIsopropylto	14.99	119	5370216	15.9486	ug/L	97
97)	14dichlorobe	15.05	146	2995112	15.0438	ug/L	98
98)	12dichlorobe	15.60	146	2742567	14.5125	ug/L	99
99)	nButylbenzen	15.58	91	4599435	15.8970	ug/L	96
100)	12dibromo3cl	16.70	157	175211	15.8782	ug/L	98
101)	135Trichlorobenzene	17.01	180	2217992	16.1903	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR0917\LLCALW8.D Vial: 12
Acq On : 9 Apr 2017 14:19 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 10 07:39:47 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:36 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	1849231	16.4344	ug/L	97
103) Hexachlorobu	18.05	225	1081810	16.8201	ug/L	98
104) Naphthalene	18.13	128	2711415	16.2165	ug/L	98
105) 123Trichlben	18.44	180	1556711	15.8550	ug/L	99

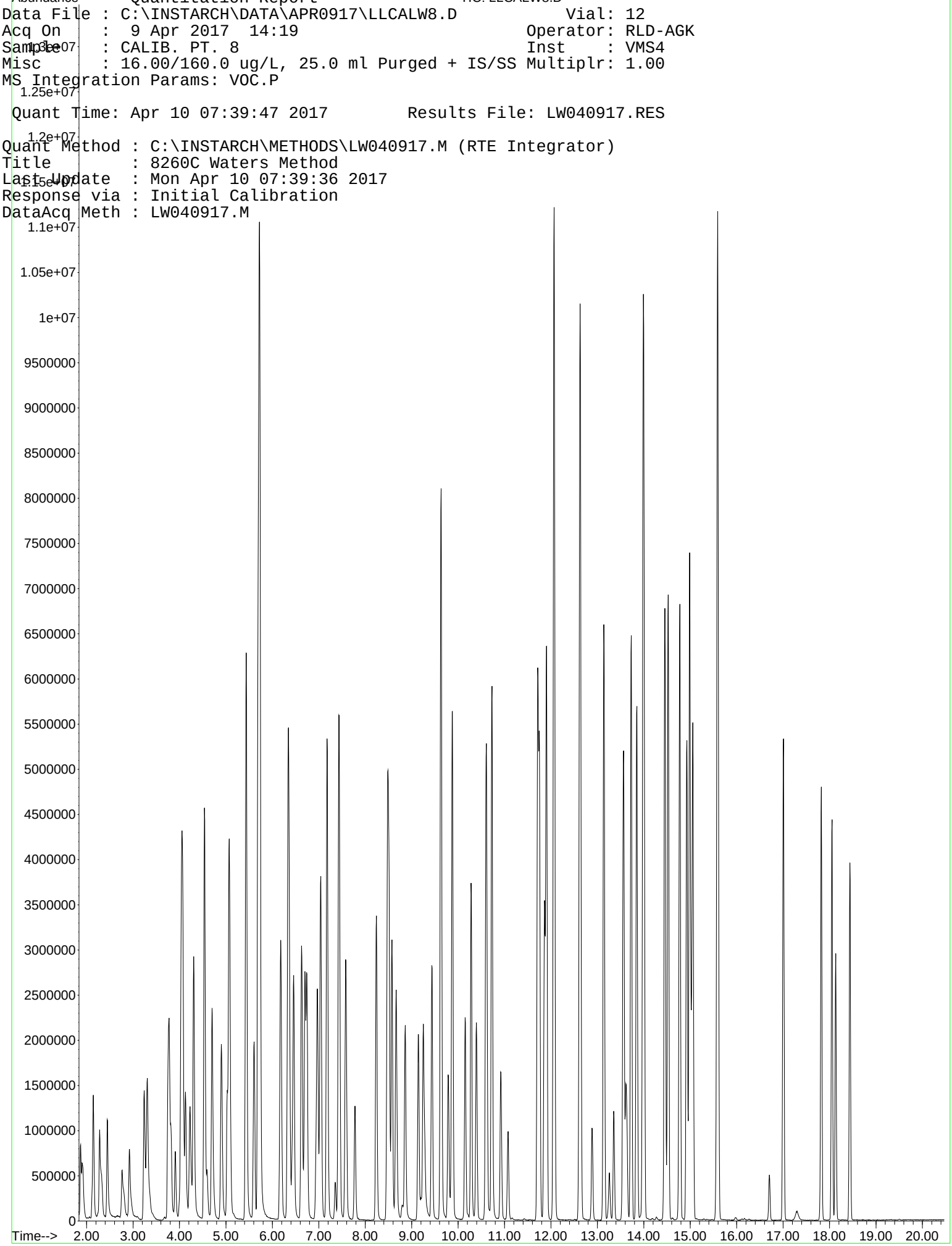
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALW8.D

Data File : C:\INSTARCH\DATA\APR0917\LLCALW8.D Vial: 12
Acq On : 9 Apr 2017 14:19 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 10 07:39:47 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:39:36 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR0917\ICV1.D Vial: 14
Acq On : 9 Apr 2017 15:15 Operator: RLD-AGK
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 10 07:56:01 2017

Quant Method : C:\INSTARCH\METHODS\LW040917.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW040917.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	105	0.00
2	PT	Dichlorodi	0.3286	0.3127	4.84	109	0.00
3	PT	Chloromethan	0.3891	0.3830	1.57	105	0.00
4	PT	VinylChlorid	0.3259	0.3383	-3.80	108	0.00
5	PT	Bromomethane	0.1164	0.1184	-1.72	109	0.00
6	PT	Chloroethane	0.1732	0.1776	-2.54	105	0.00
7	T	Dichloroflmethane	0.4361	0.4476	-2.64	107	0.00
8	PT	Trichlorofma	0.3472	0.3553	-2.33	105	0.00
9	T	Ethylether	0.1558	0.1658	-6.42	108	0.00
10	T	dichlorotfluoroethan	0.2586	0.2546	1.55	107	0.00
11	T	propyleneoxide	0.0134	0.0139#	-3.73	118	0.00
12	T	Acrolein	0.0296	0.0300#	-1.35	118	0.00
13	PT	11dichlorthe	0.2122	0.2146	-1.13	109	0.00
14	PT	Trichlorotfluoroeth	0.2020	0.1960	2.97	110	0.00
15	PT	Acetone	0.0496	0.0468#	5.65	115	0.00
16	T	Iodomethane	0.1446	0.1861	-28.70#	109	0.00
17	PT	Carbon Dislf	0.4766	0.4746	0.42	109	0.00
18	T	allylchloride	0.4081	0.4120	-0.96	103	0.00
19	PT	methylacetate	0.0216	0.0220#	-1.85	117	0.00
20	PT	Methylchlorid	0.3323	0.2421	27.14#	101	0.00
21	T	tbutylalcohol	0.0116	0.0095#	18.10	104	0.00
22	T	Acrylonitrile	0.0525	0.0493	6.10	109	0.00
23	PT	t12dichlorte	0.2368	0.2282	3.63	106	0.00
24	PT	MtBE	0.4420	0.4472	-1.18	112	0.00
25	T	Hexane	0.3254	0.3290	-1.11	109	0.00
26	PT	11dichlorota	0.4802	0.4948	-3.04	108	0.00
27	T	Vinylacetate	0.3200	0.3692	-15.37	114	0.00
28	T	chloroprene	0.4314	0.4423	-2.53	108	0.00
29	T	Diisopether	0.9528	0.9958	-4.51	110	0.00
30	T	ETBE	0.6260	0.6549	-4.62	111	0.00
31	T	22dichloropr	0.2946	0.2869	2.61	106	0.00
32	PT	c12dichlorte	0.2763	0.2737	0.94	107	0.00
33	PT	2Butanone	0.0132	0.0129#	2.27	107	0.00
34	T	propionitrile	0.0203	0.0174#	14.29	103	0.00
35	T	Ethylacetate	0.0044	0.0045#	-2.27	107	0.00
36	T	methacrylonitrile	0.0557	0.0520	6.64	111	0.00
37	T	Bromochlorma	0.1174	0.1145	2.47	105	0.00
38	T	Tetrahydofur	0.0509	0.0455	10.61	110	0.00
39	PT	Chloroform	0.4623	0.4405	4.72	105	0.00
40	PT	111trichlota	0.3695	0.3679	0.43	108	0.00
41	S	SURRDibrflma	0.2724	0.2671	1.95	103	0.00
42	PT	Cyclohexane	0.4149	0.4141	0.19	111	0.00
43	PT	Carbtetraclo	0.2768	0.2937	-6.11	110	0.00
44	T	11dicloprope	0.1176	0.1253	-6.55	111	0.00
45	S	SURR12DCAd4	0.0553	0.0532	3.80	107	0.00
46	PT	Benzene	0.9898	0.9979	-0.82	107	0.00
47	PT	12dichlorota	0.3059	0.2969	2.94	110	0.00
48	T	TAME	0.4578	0.4854	-6.03	114	0.00

49	PT	trichloroete	0.2502	0.2553	-2.04	109	0.00
50	PT	methylcyclohexane	0.3731	0.3744	-0.35	110	0.00
51	PT	12dicloropra	0.2880	0.2888	-0.28	106	0.00
52	T	23Dicl1propene	0.3563	0.3767	-5.73	113	0.00
53	T	Dibromometha	0.1202	0.1199	0.25	105	0.00
54	T	methylmethacrylate	0.0897	0.0915	-2.01	114	0.00
55	T	14dioxane	0.0009	0.0005#	44.44#	68	0.00
56	PT	Bromodiclrma	0.3056	0.3080	-0.79	111	0.00
57	T	2Nitropropane	0.0301	0.0299#	0.66	114	0.00
58	T	2CLEVE	0.0324	0.0392	-20.99#	139	0.00
59	PT	c13dicloproe	0.3280	0.3444	-5.00	112	0.00
60	PT	4Meth2Pentan	0.1634	0.1614	1.22	113	0.00
61	S	SURRd8Tolule	0.9986	1.0118	-1.32	105	0.00
62	PT	Toluene	0.6252	0.6236	0.26	107	0.00
63	PT	t13Dicloprop	0.2382	0.2524	-5.96	115	0.00
64	T	ethylmethacrylate	0.1882	0.1971	-4.73	116	0.00
65	PT	112Triclotha	0.1465	0.1455	0.68	115	0.00
66	PT	Tetrachlorte	0.3058	0.3044	0.46	107	0.00
67	T	13Diclorpropa	0.2889	0.2800	3.08	110	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	105	0.00
69	PT	2Hexanone	0.1427	0.1388	2.73	113	0.00
70	PT	Clorodibrmta	0.2585	0.2603	-0.70	109	0.00
71	PT	12Dibrometha	0.2060	0.1967	4.51	107	0.00
72	PT	Chlorobenzen	0.8985	0.8889	1.07	108	0.00
73	T	1Clhexane	0.3776	0.3720	1.48	109	0.00
74	T	1112Tetclota	0.3036	0.3038	-0.07	109	0.00
75	PT	Ethylbenzene	1.4092	1.4302	-1.49	107	0.00
76	PT	m p-Xylene	0.5657	0.5757	-1.77	107	0.00
77	PT	o-Xylene	0.5563	0.5720	-2.82	108	0.00
78	PT	Styrene	0.8961	0.9419	-5.11	108	0.00
79	PT	Bromoform	0.1558	0.1479	5.07	112	0.00
80	PT	Isopropylben	1.3636	1.4249	-4.50	109	0.00
81	T	cyclohexanone	0.0048	0.0030#	37.50#	87	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	104	0.00
83	S	SURR4BrFBenz	0.7750	0.7745	0.06	105	0.00
84	T	Bromobenzene	0.6921	0.6926	-0.07	107	0.00
85	PT	1122Tetrclta	0.4567	0.4231	7.36	112	0.00
86	T	123Triclproa	0.3903	0.3732	4.38	117	0.00
87	T	14dichloro2butene	0.0830	0.0865	-4.22	123	0.00
88	T	n-Propylbenz	2.8522	2.9404	-3.09	107	0.00
89	T	2chlorotolue	1.7345	1.7575	-1.33	109	0.00
90	T	4chlorotolue	1.9444	2.0224	-4.01	108	0.00
91	T	135Trimebenz	2.0246	2.1094	-4.19	106	0.00
92	T	tbutylbenzen	1.8164	1.8577	-2.27	108	0.00
93	T	124Trimetben	2.0782	2.1827	-5.03	109	0.00
94	T	sbutylbenzen	2.5902	2.6656	-2.91	106	0.00
95	PT	13Diclorbenz	1.3039	1.2865	1.33	104	0.00
96	T	pIsopropylto	2.2046	2.3036	-4.49	107	0.00
97	PT	14dichlorobe	1.2943	1.2982	-0.30	108	0.00
98	PT	12dichlorobe	1.2234	1.1922	2.55	109	0.00
99	T	nButylbenzen	1.8936	1.9282	-1.83	109	0.00
100	PT	12dibromo3cl	0.0729	0.0683	6.31	111	0.00
101	T	135Trichlorobenzene	0.8986	0.9310	-3.61	110	0.00
102	PT	124Trichlobe	0.7395	0.7527	-1.78	111	0.00
103	T	Hexachlorobu	0.4240	0.4083	3.70	105	0.00
104	T	Naphthalene	1.0970	1.1365	-3.60	115	0.00
105	T	123Trichlben	0.6424	0.6511	-1.35	113	0.00

(#) = Out of Range SPCC's out = 3 CCC's out = 0

LW040917.M Tue Apr 11 09:55:36 2017

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR0917\ICV1.D Vial: 14
Acq On : 9 Apr 2017 15:15 Operator: RLD-AGK
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 10 07:56:01 2017

Quant Method : C:\INSTARCH\METHODS\LW040917.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW040917.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	105	0.00
2	PT	Dichlorodi	4.0000	3.8063	4.84	109	0.00
3	PT	Chloromethan	4.0000	3.9370	1.58	105	0.00
4	PT	VinylChlorid	4.0000	4.1524	-3.81	108	0.00
5	PT	Bromomethane	4.0000	4.0689	-1.72	109	0.00
6	PT	Chloroethane	4.0000	4.1021	-2.55	105	0.00
7	T	Dichloroflmethane	4.0000	4.1054	-2.64	107	0.00
8	PT	Trichlorofma	4.0000	4.0940	-2.35	105	0.00
9	T	Ethylether	4.0000	4.2570	-6.42	108	0.00
10	T	dichlorotfluoroethan	4.0000	3.9380	1.55	107	0.00
11	T	propyleneoxide	40.0000	41.5380	-3.84	118	0.00
12	T	Acrolein	20.0000	20.2745	-1.37	118	0.00
13	PT	11dichlorthe	4.0000	4.0457	-1.14	109	0.00
14	PT	Trichlorotfluoroeth	8.0000	7.7640	2.95	110	0.00
15	PT	Acetone	40.0000	41.9110	-4.78	115	0.00
16	T	Iodomethane	8.0000	9.0503	-13.13	109	0.00
17	PT	Carbon Dislf	8.0000	7.9669	0.41	109	0.00
18	T	allylchloride	8.0000	8.0779	-0.97	103	0.00
19	PT	methylacetate	4.0000	4.0839	-2.10	117	0.00
20	PT	Methylchlorid	4.0000	3.9197	2.01	101	0.00
21	T	tbutylalcohol	200.0000	166.6253	16.69	104	0.00
22	T	Acrylonitrile	20.0000	18.7640	6.18	109	0.00
23	PT	t12dichlorte	4.0000	3.8545	3.64	106	0.00
24	PT	MtBE	4.0000	4.0469	-1.17	112	0.00
25	T	Hexane	8.0000	8.0882	-1.10	109	0.00
26	PT	11dichlorota	4.0000	4.1218	-3.05	108	0.00
27	T	Vinylacetate	40.0000	46.1480	-15.37	114	0.00
28	T	chloroprene	8.0000	8.2021	-2.53	108	0.00
29	T	Diisopether	4.0000	4.1805	-4.51	110	0.00
30	T	ETBE	4.0000	4.1845	-4.61	111	0.00
31	T	22dichloropr	4.0000	3.8951	2.62	106	0.00
32	PT	c12dichlorte	4.0000	3.9618	0.95	107	0.00
33	PT	2Butanone	40.0000	38.8987	2.75	107	0.00
34	T	propionitrile	40.0000	34.3969	14.01	103	0.00
35	T	Ethylacetate	20.0000	18.6932	6.53	107	0.00
36	T	methacrylonitrile	8.0000	7.4655	6.68	111	0.00
37	T	Bromochlorma	4.0000	3.8990	2.52	105	0.00
38	T	Tetrahydofur	40.0000	35.7514	10.62	110	0.00
39	PT	Chloroform	4.0000	3.8115	4.71	105	0.00
40	PT	111trichlota	4.0000	3.9820	0.45	108	0.00
41	S	SURRDibrflma	4.0000	3.9233	1.92	103	0.00
42	PT	Cyclohexane	4.0000	3.9925	0.19	111	0.00
43	PT	Carbtetraclo	4.0000	4.2439	-6.10	110	0.00
44	T	11dicloprope	4.0000	4.2609	-6.52	111	0.00
45	S	SURR12DCAd4	4.0000	3.8490	3.77	107	0.00
46	PT	Benzene	4.0000	4.0328	-0.82	107	0.00
47	PT	12dichlorota	4.0000	3.8819	2.95	110	0.00
48	T	TAME	4.0000	4.2409	-6.02	114	0.00

49	PT	trichloroete	4.0000	4.0814	-2.04	109	0.00
50	PT	methylcyclohexane	4.0000	4.0141	-0.35	110	0.00
51	PT	12dicloropra	4.0000	4.0123	-0.31	106	0.00
52	T	23Dicl1propene	4.0000	4.2284	-5.71	113	0.00
53	T	Dibromometha	4.0000	3.9918	0.20	105	0.00
54	T	methylmethacrylate	4.0000	4.0777	-1.94	114	0.00
55	T	14dioxane	200.0000	107.9152	46.04#	68	0.00
56	PT	Bromodiclrma	4.0000	4.0312	-0.78	111	0.00
57	T	2Nitropropane	40.0000	39.6985	0.75	114	0.00
58	T	2CLEVE	20.0000	24.1974	-20.99#	139	0.00
59	PT	c13dicloproe	4.0000	4.1993	-4.98	112	0.00
60	PT	4Meth2Pentan	40.0000	39.5082	1.23	113	0.00
61	S	SURRd8Tolule	4.0000	4.0527	-1.32	105	0.00
62	PT	Toluene	4.0000	3.9896	0.26	107	0.00
63	PT	t13Dicloprop	4.0000	4.2377	-5.94	115	0.00
64	T	ethylmethacrylate	8.0000	8.3762	-4.70	116	0.00
65	PT	112Triclotha	4.0000	3.9735	0.66	115	0.00
66	PT	Tetrachlorte	4.0000	3.9814	0.47	107	0.00
67	T	13Diclorpropa	4.0000	3.8761	3.10	110	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	105	0.00
69	PT	2Hexanone	40.0000	38.9257	2.69	113	0.00
70	PT	Clorodibrmta	4.0000	4.0278	-0.70	109	0.00
71	PT	12Dibrometha	4.0000	3.8197	4.51	107	0.00
72	PT	Chlorobenzen	4.0000	3.9574	1.07	108	0.00
73	T	1Clhexane	4.0000	3.9402	1.50	109	0.00
74	T	1112Tetclota	4.0000	4.0027	-0.07	109	0.00
75	PT	Ethylbenzene	4.0000	4.0597	-1.49	107	0.00
76	PT	m p-Xylene	8.0000	8.1411	-1.76	107	0.00
77	PT	o-Xylene	4.0000	4.1128	-2.82	108	0.00
78	PT	Styrene	4.0000	4.2044	-5.11	108	0.00
79	PT	Bromoform	4.0000	3.7974	5.06	112	0.00
80	PT	Isopropylben	4.0000	4.1797	-4.49	109	0.00
81	T	cyclohexanone	80.0000	54.9135	31.36#	87	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	104	0.00
83	S	SURR4BrFBenz	4.0000	3.9976	0.06	105	0.00
84	T	Bromobenzene	4.0000	4.0026	-0.07	107	0.00
85	PT	1122Tetrclta	4.0000	3.7062	7.35	112	0.00
86	T	123Triclproa	4.0000	3.8247	4.38	117	0.00
87	T	14dichloro2butene	4.0000	4.1714	-4.29	123	0.00
88	T	n-Propylbenz	4.0000	4.1237	-3.09	107	0.00
89	T	2chlorotolue	4.0000	4.0529	-1.32	109	0.00
90	T	4chlorotolue	4.0000	4.1605	-4.01	108	0.00
91	T	135Trimebenz	4.0000	4.1675	-4.19	106	0.00
92	T	tbutylbenzen	4.0000	4.0909	-2.27	108	0.00
93	T	124Trimetben	4.0000	4.2010	-5.02	109	0.00
94	T	sbutylbenzen	4.0000	4.1164	-2.91	106	0.00
95	PT	13Diclorbenz	4.0000	3.9467	1.33	104	0.00
96	T	pIsopropylto	4.0000	4.1796	-4.49	107	0.00
97	PT	14dichlorobe	4.0000	4.0120	-0.30	108	0.00
98	PT	12dichlorobe	4.0000	3.8980	2.55	109	0.00
99	T	nButylbenzen	4.0000	4.0732	-1.83	109	0.00
100	PT	12dibromo3cl	4.0000	3.7470	6.33	111	0.00
101	T	135Trichlorobenzene	4.0000	4.1442	-3.60	110	0.00
102	PT	124Trichlobe	4.0000	4.0712	-1.78	111	0.00
103	T	Hexachlorobu	4.0000	3.8523	3.69	105	0.00
104	T	Naphthalene	4.0000	4.1439	-3.60	115	0.00
105	T	123Trichlben	4.0000	4.0545	-1.36	113	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW040917.M Tue Apr 11 09:56:12 2017

Quantitation Report

Data File : C:\Instarch\Data\APR0917\ICV1.D Vial: 14
Acq On : 9 Apr 2017 15:15 Operator: RLD-AGK
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 10 07:56:01 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:55:30 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1275685	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1024839	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	583090	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	340793	3.923	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 98 %			
45) SURR12DCAd4	7.36	102	67906	3.849	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 96 %			
61) SURRd8Tolule	9.79	98	1290733	4.053	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101 %			
83) SURR4BrFBenz	13.35	95	451622	3.998	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	398849	3.8063	ug/L	99
3) Chloromethan	2.15	50	488530	3.9370	ug/L	99
4) VinylChlorid	2.28	62	431572	4.1524	ug/L	100
5) Bromomethane	2.76	94	151030	4.0689	ug/L	96
6) Chloroethane	2.92	64	226607	4.1021	ug/L	97
7) Dichloroflmethane	3.24	67	571041	4.1054	ug/L	99
8) Trichlorofma	3.31	101	453273	4.0940	ug/L	95
9) Ethylether	3.76	59	211456	4.2570	ug/L	97
10) dichlorotfluoroethan	3.78	67	324743	3.9380	ug/L	99
11) propyleneoxide	3.82	58	177754	41.5380	ug/L	96
12) Acrolein	3.91	56	191192	20.2745	ug/L	96
13) 11dichlorthe	4.04	96	273753	4.0457	ug/L	99
14) Trichlorotfluoroeth	4.07	101	500170	7.7640	ug/L	99
15) Acetone	4.13	43	597347	41.9110	ug/L	99
16) Iodomethane	4.23	142	474702	9.0503	ug/L	99
17) Carbon Dislf	4.30	76	1210954	7.9669	ug/L	98
18) allylchloride	4.54	41	1051283	8.0779	ug/L	98
19) methylacetate	4.60	74	28104	4.0839	ug/L	91
20) Methylchlorid	4.70	84	308809	3.9197	ug/L	97
21) tbutylalcohol	4.91	59	604015	166.6253	ug/L	96
22) Acrylonitrile	5.03	53	314316	18.7640	ug/L	98
23) t12dichlorte	5.07	96	291104	3.8545	ug/L	98
24) MtBE	5.08	73	570460	4.0469	ug/L	99
25) Hexane	5.44	57	839334	8.0882	ug/L	98
26) 11dichlorota	5.61	63	631254	4.1218	ug/L	99
27) Vinylacetate	5.70	43	4710239	46.1480	ug/L	99
28) chloroprene	5.73	53	1128542	8.2021	ug/L	100
29) Diisopether	5.72	45	1270343	4.1805	ug/L	99
30) ETBE	6.18	59	835430	4.1845	ug/L	99
31) 22dichloropr	6.34	77	365934	3.8951	ug/L	97
32) c12dichlorte	6.34	96	349092	3.9618	ug/L	98
33) 2Butanone	6.37	72	163934	38.8987	ug/L	100
34) propionitrile	6.43	54	222341	34.3969	ug/L	97
35) Ethylacetate	6.46	88	28513	18.6932	ug/L	93
36) methacrylonitrile	6.63	67	132644	7.4655	ug/L	97
37) Bromochlorma	6.63	128	146007	3.8990	ug/L	99
38) Tetrahydofur	6.71	42	579872	35.7514	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0917\ICV1.D Vial: 14
Acq On : 9 Apr 2017 15:15 Operator: RLD-AGK
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 10 07:56:01 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:55:30 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	561911	3.8115	ug/L	99
40)	111trichlota	6.97	97	469301	3.9820	ug/L	98
42)	Cyclohexane	7.04	56	528324	3.9925	ug/L	99
43)	Carbtetraclo	7.18	119	374617	4.2439	ug/L	99
44)	11dicloprope	7.18	110	159838	4.2609	ug/L	100
46)	Benzene	7.43	78	1273067	4.0328	ug/L	100
47)	12dichlorota	7.45	62	378732	3.8819	ug/L	98
48)	TAME	7.58	73	619168	4.2409	ug/L	98
49)	trichloroete	8.23	95	325700	4.0814	ug/L	99
50)	methylcyclohexane	8.48	83	477642	4.0141	ug/L	98
51)	12dicloropra	8.51	63	368473	4.0123	ug/L	100
52)	23Dicl1propene	8.58	75	480490	4.2284	ug/L	98
53)	Dibromometha	8.66	93	153004	3.9918	ug/L	95
54)	methylmethacrylate	8.67	69	116667	4.0777	ug/L	97
55)	14dioxane	8.69	88	29701	107.9152	ug/L	94
56)	Bromodiclrma	8.86	83	392927	4.0312	ug/L	98
57)	2Nitropropane	9.14	43	380850	39.6985	ug/L	99
58)	2CLEVE	9.25	63	250256	24.1974	ug/L	99
59)	c13dicloproe	9.44	75	439302	4.1993	ug/L	100
60)	4Meth2Pentan	9.63	43	2058870	39.5082	ug/L	99
62)	Toluene	9.87	92	795526	3.9896	ug/L	100
63)	t13Dicloprop	10.16	75	321953	4.2377	ug/L	98
64)	ethylmethacrylate	10.29	69	502795	8.3762	ug/L	99
65)	112Triclotha	10.39	83	185596	3.9735	ug/L	96
66)	Tetrachlorte	10.60	166	388338	3.9814	ug/L	98
67)	13Diclorpropa	10.62	76	357148	3.8761	ug/L	98
69)	2Hexanone	10.73	43	1422674	38.9257	ug/L	99
70)	Clorodibrmta	10.92	129	266773	4.0278	ug/L	99
71)	12Dibrometha	11.08	107	201586	3.8197	ug/L	95
72)	Chlorobenzen	11.75	112	911008	3.9574	ug/L	97
73)	1Clhexane	11.71	91	381225	3.9402	ug/L	99
74)	1112Tetclota	11.86	131	311392	4.0027	ug/L	97
75)	Ethylbenzene	11.90	91	1465757	4.0597	ug/L	99
76)	m p-Xylene	12.07	106	1179949	8.1411	ug/L	99
77)	o-Xylene	12.62	106	586173	4.1128	ug/L	99
78)	Styrene	12.63	104	965261	4.2044	ug/L	98
79)	Bromoform	12.89	173	151592	3.7974	ug/L	98
80)	Isopropylben	13.14	105	1460260	4.1797	ug/L	100
81)	cyclohexanone	13.25	55	62371	54.9135	ug/L	100
84)	Bromobenzene	13.56	156	403823	4.0026	ug/L	99
85)	1122Tetrclta	13.55	83	246729	3.7062	ug/L	98
86)	123Triclproa	13.62	75	217604	3.8247	ug/L	99
87)	14dichloro2butene	13.64	53	50463	4.1714	ug/L	96
88)	n-Propylbenz	13.73	91	1714543	4.1237	ug/L	99
89)	2chlorotolue	13.85	91	1024781	4.0529	ug/L	99
90)	4chlorotolue	14.00	91	1179244	4.1605	ug/L	99
91)	135Trimebenz	13.98	105	1229968	4.1675	ug/L	99
92)	tbutylbenzen	14.45	119	1083195	4.0909	ug/L	98
93)	124Trimetben	14.53	105	1272693	4.2010	ug/L	100
94)	sbutylbenzen	14.77	105	1554302	4.1164	ug/L	100
95)	13Diclorbenz	14.93	146	750169	3.9467	ug/L	96
96)	pIsopropylto	14.99	119	1343218	4.1796	ug/L	100
97)	14dichlorobe	15.05	146	756970	4.0120	ug/L	99
98)	12dichlorobe	15.60	146	695176	3.8980	ug/L	100
99)	nButylbenzen	15.58	91	1124323	4.0732	ug/L	99
100)	12dibromo3cl	16.71	157	39840	3.7470	ug/L	97
101)	135Trichlorobenzene	17.01	180	542877	4.1442	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0917\ICV1.D Vial: 14
Acq On : 9 Apr 2017 15:15 Operator: RLD-AGK
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 10 07:56:01 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:55:30 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	438875	4.0712	ug/L	100
103) Hexachlorobu	18.05	225	238086	3.8523	ug/L	98
104) Naphthalene	18.13	128	662670	4.1439	ug/L	100
105) 123Trichlben	18.44	180	379667	4.0545	ug/L	99

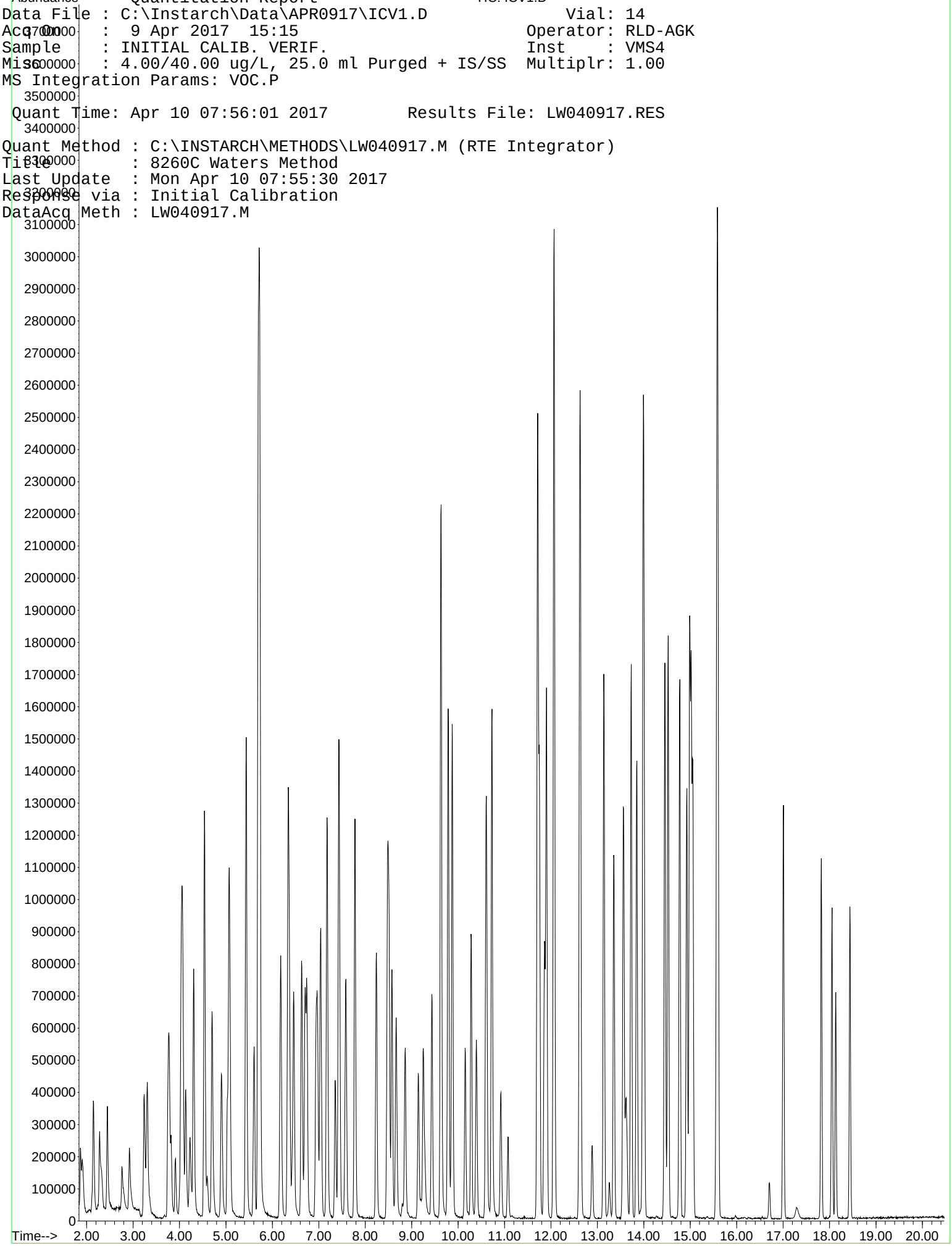
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: ICV1.D)

Data File : C:\Instarch\Data\APR0917\ICV1.D Vial: 14
Acq On : 9 Apr 2017 15:15 Operator: RLD-AGK
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 10 07:56:01 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:55:30 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR0917\ICV2.D Vial: 15
Acq On : 9 Apr 2017 15:43 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 10 07:56:53 2017

Quant Method : C:\INSTARCH\METHODS\LW040917.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW040917.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	104	0.00
2	PT	Dichlorodi	8.0000	6.7782	15.27	109	0.00
3	PT	Chloromethan	8.0000	7.1870	10.16	108	0.00
4	PT	VinylChlorid	8.0000	7.6940	3.83	110	0.00
5	PT	Bromomethane	8.0000	8.5070	-6.34	120	0.00
6	PT	Chloroethane	8.0000	7.0875	11.41	103	0.00
7	T	Dichloroflmethane	8.0000	6.5810	17.74	94	0.00
8	PT	Trichlorofma	8.0000	6.7185	16.02	100	0.00
9	T	Ethylether	8.0000	7.4997	6.25	94	0.00
10	T	dichlorotfluoroethan	8.0000	7.1865	10.17	108	0.00
11	T	propyleneoxide	80.0000	74.6561	6.68	91	0.00
12	T	Acrolein	40.0000	35.8913	10.27	92	0.00
13	PT	11dichlorthe	8.0000	7.3760	7.80	108	0.00
14	PT	Trichlorotfluoroeth	16.0000	14.1713	11.43	110	0.00
15	PT	Acetone	80.0000	78.7088	1.61	101	0.00
16	T	Iodomethane	16.0000	17.5375	-9.61	117	0.00
17	PT	Carbon Dislf	16.0000	14.6749	8.28	107	0.00
18	T	allylchloride	16.0000	15.1860	5.09	111	0.00
19	PT	methylacetate	8.0000	7.6724	4.10	99	0.00
20	PT	Methylchlorid	8.0000	7.6930	3.84	104	0.00
21	T	tbutylalcohol	400.0000	299.8328	25.04#	77	0.00
22	T	Acrylonitrile	40.0000	34.0135	14.97	90	0.00
23	PT	t12dichlorte	8.0000	7.2321	9.60	107	0.00
24	PT	MtBE	8.0000	7.5229	5.96	99	0.00
25	T	Hexane	16.0000	15.7517	1.55	114	0.00
26	PT	11dichlorota	8.0000	7.4392	7.01	107	0.00
27	T	Vinylacetate	80.0000	77.8728	2.66	94	0.00
28	T	chloroprene	16.0000	15.0719	5.80	108	0.00
29	T	Diisopether	8.0000	7.4960	6.30	102	0.00
30	T	ETBE	8.0000	7.8534	1.83	103	0.00
31	T	22dichloropr	8.0000	7.4572	6.78	108	0.00
32	PT	c12dichlorte	8.0000	7.2751	9.06	105	0.00
33	PT	2Butanone	80.0000	72.0627	9.92	95	0.00
34	T	propionitrile	80.0000	62.3628	22.05#	86	0.00
35	T	Ethylacetate	40.0000	37.4320	6.42	93	0.00
36	T	methacrylonitrile	16.0000	13.9956	12.53	92	0.00
37	T	Bromochlorma	8.0000	7.0516	11.86	99	0.00
38	T	Tetrahydofur	80.0000	65.1153	18.61	90	0.00
39	PT	Chloroform	8.0000	7.0805	11.49	106	0.00
40	PT	111trichlota	8.0000	7.3490	8.14	108	0.00
41	S	SURRDibrflma	4.0000	3.8950	2.62	104	0.00
42	PT	Cyclohexane	8.0000	7.4868	6.42	111	0.00
43	PT	Carbtetraclo	8.0000	8.1006	-1.26	109	0.00
44	T	11dicloprope	8.0000	7.7287	3.39	112	0.00
45	S	SURR12DCAd4	4.0000	3.6610	8.47	99	0.00
46	PT	Benzene	8.0000	7.3008	8.74	106	0.00
47	PT	12dichlorota	8.0000	7.0764	11.55	101	0.00
48	T	TAME	8.0000	8.0522	-0.65	102	0.00

49	PT	trichloroete	8.0000	7.3709	7.86	106	0.00
50	PT	methylcyclohexane	8.0000	7.5452	5.68	109	0.00
51	PT	12dicloropra	8.0000	7.3817	7.73	104	0.00
52	T	23Dicl1propene	8.0000	7.6323	4.60	106	0.00
53	T	Dibromometha	8.0000	7.4340	7.07	99	0.00
54	T	methylmethacrylate	8.0000	7.6727	4.09	96	0.00
55	T	14dioxane	400.0000	179.3339	55.17#	56	0.00
56	PT	Bromodiclrma	8.0000	7.3970	7.54	101	0.00
57	T	2Nitropropane	80.0000	79.2953	0.88	90	0.00
58	T	2CLEVE	40.0000	45.2018	-13.00	101	0.00
59	PT	c13dicloproe	8.0000	7.8571	1.79	102	0.00
60	PT	4Meth2Pentan	80.0000	70.2632	12.17	92	0.00
61	S	SURRd8Tolule	4.0000	3.9780	0.55	105	0.00
62	PT	Toluene	8.0000	7.4186	7.27	107	0.00
63	PT	t13Dicloprop	8.0000	8.0189	-0.24	100	0.00
64	T	ethylmethacrylate	16.0000	15.8980	0.64	97	0.00
65	PT	112Triclotha	8.0000	7.1135	11.08	99	0.00
66	PT	Tetrachlorte	8.0000	7.4041	7.45	109	0.00
67	T	13Diclorpropa	8.0000	7.2249	9.69	99	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	104	0.00
69	PT	2Hexanone	80.0000	72.2618	9.67	93	0.00
70	PT	Clorodibrmta	8.0000	7.9699	0.38	101	0.00
71	PT	12Dibrometha	8.0000	7.2594	9.26	97	0.00
72	PT	Chlorobenzen	8.0000	7.3610	7.99	105	0.00
73	T	1Clhexane	8.0000	7.5640	5.45	110	0.00
74	T	1112Tetclota	8.0000	7.8087	2.39	105	0.00
75	PT	Ethylbenzene	8.0000	7.6181	4.77	107	0.00
76	PT	m p-Xylene	16.0000	15.2931	4.42	108	0.00
77	PT	o-Xylene	8.0000	7.6976	3.78	105	0.00
78	PT	Styrene	8.0000	7.8756	1.55	104	0.00
79	PT	Bromoform	8.0000	7.1944	10.07	93	0.00
80	PT	Isopropylben	8.0000	7.8488	1.89	108	0.00
81	T	cyclohexanone	160.0000	99.6886	37.69#	67	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	105	0.00
83	S	SURR4BrFBenz	4.0000	4.0095	-0.24	103	0.00
84	T	Bromobenzene	8.0000	7.3786	7.77	103	0.00
85	PT	1122Tetrclta	8.0000	6.7597	15.50	94	0.00
86	T	123Triclproa	8.0000	6.9583	13.02	91	0.00
87	T	14dichloro2butene	8.0000	7.9472	0.66	94	0.00
88	T	n-Propylbenz	8.0000	7.5454	5.68	107	0.00
89	T	2chlorotolue	8.0000	7.4961	6.30	106	0.00
90	T	4chlorotolue	8.0000	7.6374	4.53	106	0.00
91	T	135Trimebenz	8.0000	7.7664	2.92	106	0.00
92	T	tbutylbenzen	8.0000	7.7126	3.59	107	0.00
93	T	124Trimetben	8.0000	7.7484	3.14	106	0.00
94	T	sbutylbenzen	8.0000	7.6687	4.14	106	0.00
95	PT	13Diclorbenz	8.0000	7.4701	6.62	103	0.00
96	T	pIsopropylto	8.0000	7.8834	1.46	106	0.00
97	PT	14dichlorobe	8.0000	7.4275	7.16	103	0.00
98	PT	12dichlorobe	8.0000	7.1965	10.04	101	0.00
99	T	nButylbenzen	8.0000	7.7703	2.87	105	0.00
100	PT	12dibromo3cl	8.0000	7.3889	7.64	94	0.00
101	T	135Trichlorobenzene	8.0000	7.8161	2.30	103	0.00
102	PT	124Trichlobe	8.0000	7.7119	3.60	100	0.00
103	T	Hexachlorobu	8.0000	7.4631	6.71	100	0.00
104	T	Naphthalene	8.0000	7.7358	3.30	91	0.00
105	T	123Trichlben	8.0000	7.5717	5.35	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW040917.M Tue Apr 11 09:56:57 2017

Quantitation Report

Data File : C:\Instarch\Data\APR0917\ICV2.D Vial: 15
Acq On : 9 Apr 2017 15:43 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 10 07:56:53 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:56:40 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1298013	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1030490	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	601320	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	344258	3.895	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 97 %			
45) SURR12DCAd4	7.36	102	65721	3.661	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 92 %			
61) SURRd8Tolule	9.79	98	1289113	3.978	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 99 %			
83) SURR4BrFBenz	13.35	95	467127	4.010	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	722692	6.7782	ug/L	98
3) Chloromethan	2.14	50	907410	7.1870	ug/L	99
4) VinylChlorid	2.28	62	813663	7.6940	ug/L	99
5) Bromomethane	2.77	94	321292	8.5070	ug/L	97
6) Chloroethane	2.92	64	398381	7.0875	ug/L	97
7) Dichloroflmethane	3.24	67	931419	6.5810	ug/L	98
8) Trichlorofma	3.31	101	756879	6.7185	ug/L	99
9) Ethylether	3.75	59	379046	7.4997	ug/L	98
10) dichlorotfluoroethan	3.78	67	603004	7.1865	ug/L	98
11) propyleneoxide	3.82	58	325068	74.6561	ug/L	99
12) Acrolein	3.91	56	344385	35.8913	ug/L	99
13) 11dichlorthe	4.04	96	507833	7.3760	ug/L	99
14) Trichlorotfluoroeth	4.06	101	928917	14.1713	ug/L	99
15) Acetone	4.13	43	1079133	78.7088	ug/L	100
16) Iodomethane	4.23	142	1055331	17.5375	ug/L	99
17) Carbon Dislf	4.30	76	2269586	14.6749	ug/L	100
18) allylchloride	4.54	41	2010953	15.1860	ug/L	100
19) methylacetate	4.60	74	53723	7.6724	ug/L	94
20) Methylchlorid	4.70	84	578752	7.6930	ug/L	98
21) tbutylalcohol	4.91	59	1073903	299.8328	ug/L	96
22) Acrylonitrile	5.03	53	579733	34.0135	ug/L	99
23) t12dichlorte	5.07	96	555747	7.2321	ug/L	98
24) MtBE	5.08	73	1079004	7.5229	ug/L	99
25) Hexane	5.44	57	1663208	15.7517	ug/L	100
26) 11dichlorota	5.61	63	1159269	7.4392	ug/L	100
27) Vinylacetate	5.70	43	8087447	77.8728	ug/L	97
28) chloroprene	5.73	53	2110082	15.0719	ug/L	100
29) Diisopether	5.73	45	2317682	7.4960	ug/L	99
30) ETBE	6.18	59	1595368	7.8534	ug/L	99
31) 22dichloropr	6.34	77	712846	7.4572	ug/L	99
32) c12dichlorte	6.34	96	652266	7.2751	ug/L	98
33) 2Butanone	6.37	72	309015	72.0627	ug/L	98
34) propionitrile	6.43	54	410168	62.3628	ug/L	99
35) Ethylacetate	6.46	88	56946	37.4320	ug/L	97
36) methacrylonitrile	6.62	67	253019	13.9956	ug/L	94
37) Bromochlorma	6.63	128	268687	7.0516	ug/L	98
38) Tetrahydofur	6.70	42	1074628	65.1153	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0917\ICV2.D Vial: 15
Acq On : 9 Apr 2017 15:43 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 10 07:56:53 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:56:40 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	1062130	7.0805	ug/L	100
40)	111trichlota	6.97	97	881284	7.3490	ug/L	99
42)	Cyclohexane	7.04	56	1008052	7.4868	ug/L	100
43)	Carbtetraclo	7.18	119	727582	8.1006	ug/L	98
44)	11dicloprope	7.18	110	295001	7.7287	ug/L	99
46)	Benzene	7.43	78	2345032	7.3008	ug/L	99
47)	12dichlorota	7.45	62	702481	7.0764	ug/L	98
48)	TAME	7.58	73	1196186	8.0522	ug/L	96
49)	trichloroete	8.24	95	598507	7.3709	ug/L	98
50)	methylcyclohexane	8.48	83	913526	7.5452	ug/L	99
51)	12dicloropra	8.51	63	689778	7.3817	ug/L	99
52)	23Dicl1propene	8.58	75	882475	7.6323	ug/L	97
53)	Dibromometha	8.66	93	289928	7.4340	ug/L	95
54)	methylmethacrylate	8.67	69	223365	7.6727	ug/L	98
55)	14dioxane	8.70	88	46439	179.3339	ug/L	91
56)	Bromodiclrma	8.86	83	733614	7.3970	ug/L	98
57)	2Nitropropane	9.14	43	774038	79.2953	ug/L	96
58)	2CLEVE	9.25	63	475672	45.2018	ug/L	98
59)	c13dicloproe	9.43	75	836344	7.8571	ug/L	99
60)	4Meth2Pentan	9.63	43	3725676	70.2632	ug/L	98
62)	Toluene	9.87	92	1505174	7.4186	ug/L	99
63)	t13Dicloprop	10.15	75	619892	8.0189	ug/L	99
64)	ethylmethacrylate	10.28	69	971010	15.8980	ug/L	98
65)	112Triclotha	10.39	83	338072	7.1135	ug/L	98
66)	Tetrachlorte	10.60	166	734818	7.4041	ug/L	98
67)	13Diclorpropa	10.62	76	677370	7.2249	ug/L	99
69)	2Hexanone	10.73	43	2655616	72.2618	ug/L	99
70)	Clorodibrmta	10.92	129	530783	7.9699	ug/L	99
71)	12Dibrometha	11.08	107	385234	7.2594	ug/L	98
72)	Chlorobenzen	11.75	112	1703902	7.3610	ug/L	99
73)	1Clhexane	11.71	91	735864	7.5640	ug/L	99
74)	1112Tetclota	11.86	131	610834	7.8087	ug/L	99
75)	Ethylbenzene	11.90	91	2765679	7.6181	ug/L	99
76)	m p-Xylene	12.07	106	2228751	15.2931	ug/L	98
77)	o-Xylene	12.62	106	1103145	7.6976	ug/L	100
78)	Styrene	12.63	104	1818082	7.8756	ug/L	98
79)	Bromoform	12.88	173	288782	7.1944	ug/L	97
80)	Isopropylben	13.14	105	2757260	7.8488	ug/L	98
81)	cyclohexanone	13.25	55	109179	99.6886	ug/L	96
84)	Bromobenzene	13.56	156	767696	7.3786	ug/L	99
85)	1122Tetrclta	13.55	83	464076	6.7597	ug/L	96
86)	123Triclproa	13.61	75	408266	6.9583	ug/L	99
87)	14dichloro2butene	13.64	53	99146	7.9472	ug/L	98
88)	n-Propylbenz	13.73	91	3235311	7.5454	ug/L	98
89)	2chlorotolue	13.85	91	1954638	7.4961	ug/L	99
90)	4chlorotolue	14.00	91	2232406	7.6374	ug/L	99
91)	135Trimebenz	13.98	105	2363770	7.7664	ug/L	100
92)	tbutylbenzen	14.45	119	2105995	7.7126	ug/L	99
93)	124Trimetben	14.53	105	2420762	7.7484	ug/L	99
94)	sbutylbenzen	14.77	105	2986135	7.6687	ug/L	99
95)	13Diclorbenz	14.93	146	1464265	7.4701	ug/L	96
96)	pIsopropylto	14.99	119	2612698	7.8834	ug/L	99
97)	14dichlorobe	15.05	146	1445191	7.4275	ug/L	100
98)	12dichlorobe	15.60	146	1323558	7.1965	ug/L	100
99)	nButylbenzen	15.58	91	2211877	7.7703	ug/L	99
100)	12dibromo3cl	16.71	157	81020	7.3889	ug/L	98
101)	135Trichlorobenzene	17.01	180	1055906	7.8161	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0917\ICV2.D Vial: 15
Acq On : 9 Apr 2017 15:43 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 10 07:56:53 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:56:40 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	857346	7.7119 ug/L	97
103) Hexachlorobu	18.05	225	475660	7.4631 ug/L	98
104) Naphthalene	18.13	128	1275748	7.7358 ug/L	99
105) 123Trichlben	18.44	180	731189	7.5717 ug/L	100

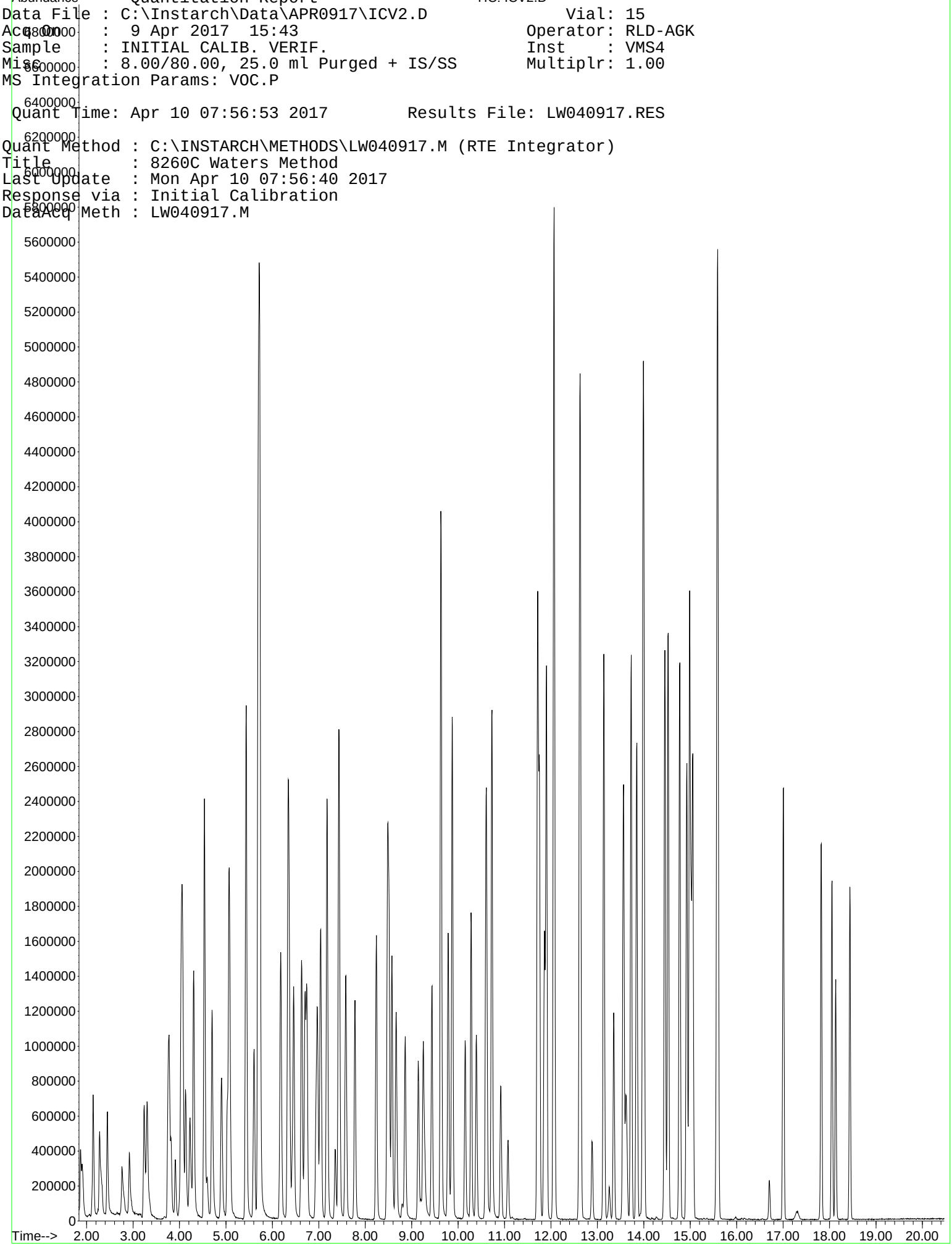
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICV2.D

Data File : C:\Instarch\Data\APR0917\ICV2.D Vial: 15
Acq On : 9 Apr 2017 15:43 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Apr 10 07:56:53 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:56:40 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



Quantitation Report

Data File : C:\Instarch\Data\APR0917\ICB1.D Vial: 18
Acq On : 9 Apr 2017 17:07 Operator: RLD-AGK
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 10 07:57:53 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:56:40 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1141291	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	913138	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	518278	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	314526	4.047	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101	%		
45) SURR12DCAd4	7.35	102	66851	4.235	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 106	%		
61) SURRd8Tolule	9.79	98	1119776	3.930	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 98	%		
83) SURR4BrFBenz	13.36	95	400501	3.988	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	0.00	85	0	N.D.		
3) Chloromethan	2.15	50	4192	0.0378	ug/L	91
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.79	94	835	N.D.		
6) Chloroethane	2.93	64	2013	N.D.		
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	4.15	43	13949	Below	Cal	93
16) Iodomethane	4.23	142	751	0.3488	ug/L #	44
17) Carbon Dislf	4.31	76	2715	N.D.		
18) allylchloride	4.60	41	1014	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	5803	Below	Cal	91
21) tbutylalcohol	4.92	59	996	Below	Cal #	40
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	6.73	42	3254	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0917\ICB1.D Vial: 18
Acq On : 9 Apr 2017 17:07 Operator: RLD-AGK
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 10 07:57:53 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:56:40 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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	7.44	78	587	N.D.	
47)	12dichlorota	7.46	62	614	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	9.16	43	514	N.D.	
58)	2CLEVE	9.26	63	22166	2.3956 ug/L #	76
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.65	43	923	N.D.	
62)	Toluene	9.86	92	726	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.74	43	906	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.71	91	1953	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.35	55	1481	Below Cal #	45
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	13.72	91	652	N.D.	
89)	2chlorotolue	13.72	91	527	N.D.	
90)	4chlorotolue	14.01	91	521	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	14.51	105	584	N.D.	
94)	sbutylbenzen	14.78	105	588	N.D.	
95)	13Diclorbenz	15.01	146	1441	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	15.01	146	1496	N.D.	
98)	12dichlorobe	15.59	146	1247	N.D.	
99)	nButylbenzen	15.58	91	1113	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	17.01	180	972	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR0917\ICB1.D Vial: 18
Acq On : 9 Apr 2017 17:07 Operator: RLD-AGK
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 10 07:57:53 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:56:40 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	895	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.14	128	2550	N.D.	
105) 123Trichlben	18.43	180	1183	N.D.	

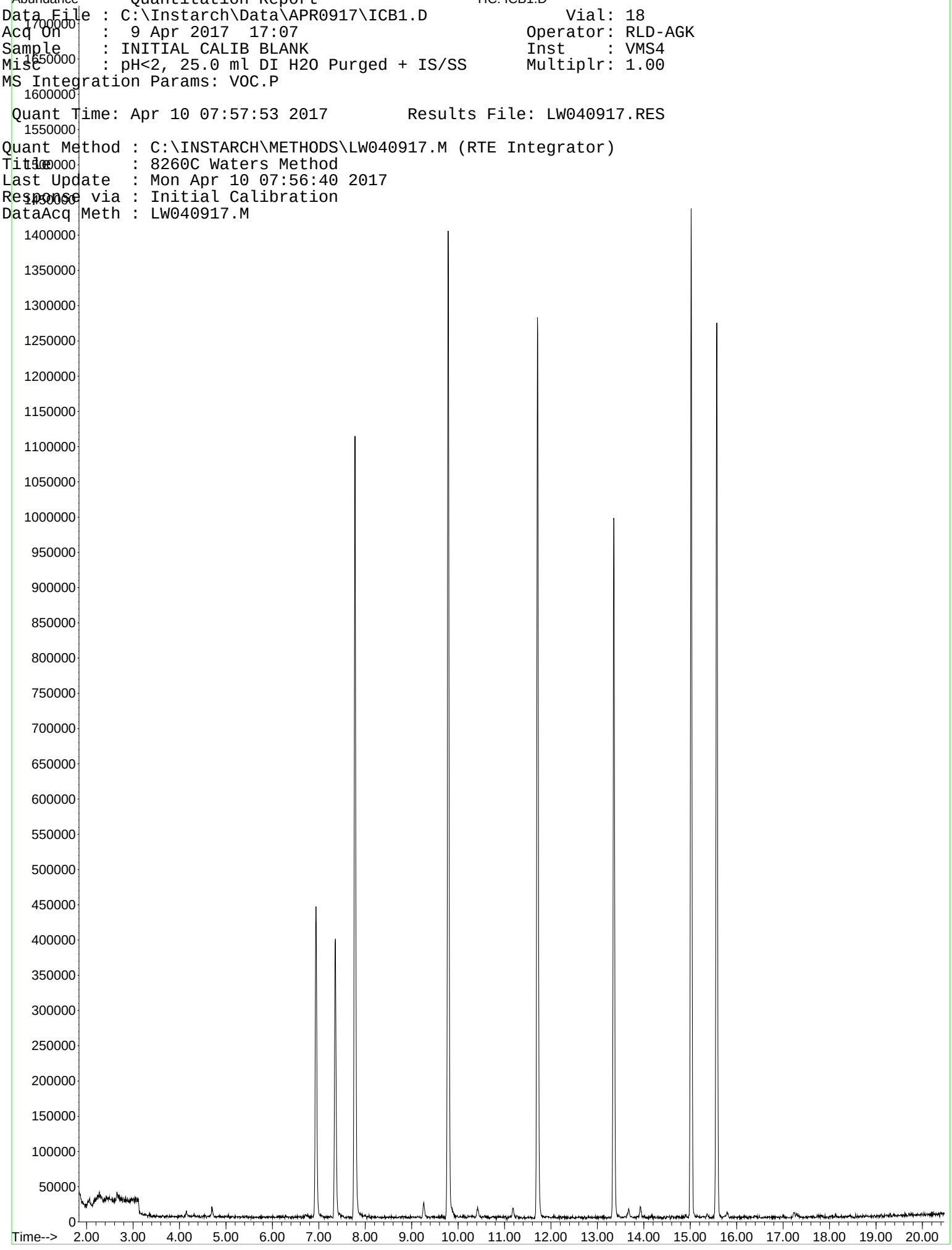
(#) = qualifier out of range (m) = manual integration

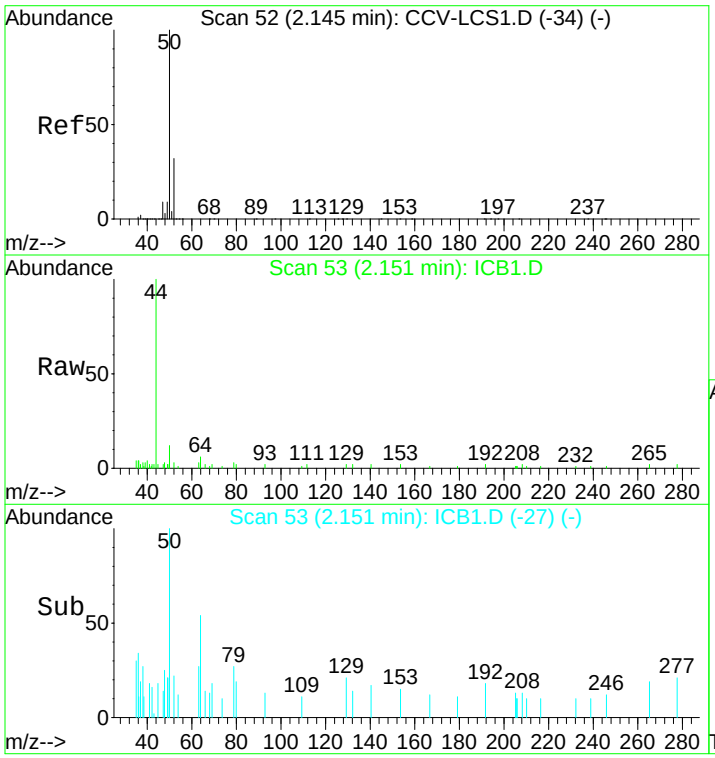
Quantitation Report

Data File : C:\Instarch\Data\APR0917\ICB1.D Vial: 18
Acq On : 9 Apr 2017 17:07 Operator: RLD-AGK
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 10 07:57:53 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Mon Apr 10 07:56:40 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

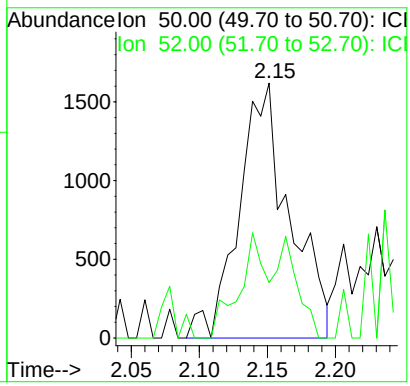


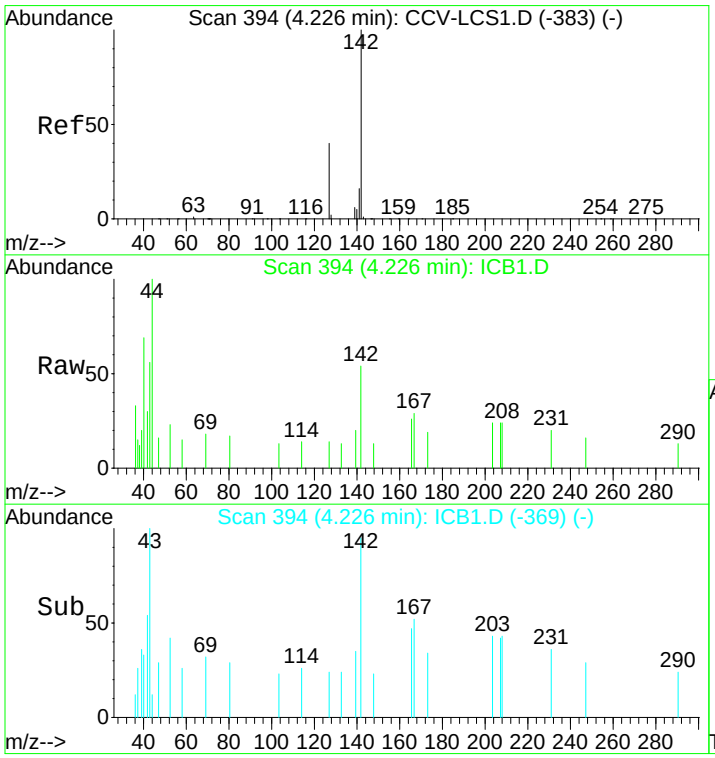


#3
Chloromethan
Concen: 0.04 ug/L
RT: 2.15 min Scan# 53
Delta R.T. 0.01 min
Lab File: ICB1.D
Acq: 9 Apr 2017 17:07

Tgt Ion: 50 Resp: 4192

Ion	Ratio	Lower	Upper
50	100		
52	38.2	13.0	53.0

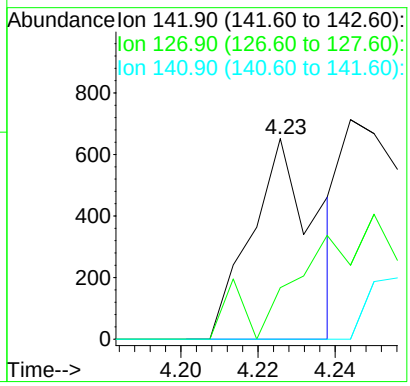




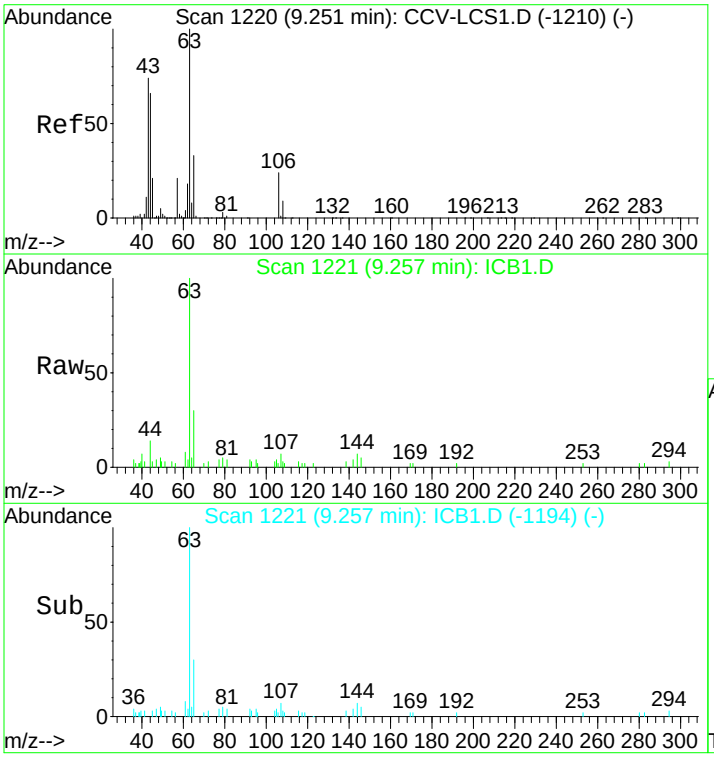
#16
Iodomethane
Concen: 0.35 ug/L
RT: 4.23 min Scan# 394
Delta R.T. 0.00 min
Lab File: ICB1.D
Acq: 9 Apr 2017 17:07

Tgt Ion:142 Resp: 751

Ion	Ratio	Lower	Upper
142	100		
127	0.0	19.4	59.4#
141	0.0	0.0	34.2



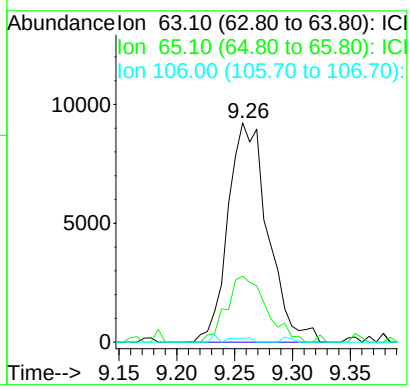
[redacted]



#58
2CLEVE
Concen: 2.40 ug/L
RT: 9.26 min Scan# 1221
Delta R.T. 0.01 min
Lab File: ICB1.D
Acq: 9 Apr 2017 17:07

Tgt Ion: 63 Resp: 22166

Ion	Ratio	Lower	Upper
63	100		
65	30.1	12.9	52.9
106	0.0	5.0	45.0#



Method Path : C:\INSTARCH\METHODS\
Method File : LS042717.M
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response Via : Initial Calibration

RJ05/08/2017

Calibration Files mg/kg
1 0.001/0.010 =LLCALS1.D 2 0.002/0.020 =LLCALS2.D 3 0.005/0.050 =LLCALS3.D
4 0.010/0.100 =LLCALS4.D 5 0.020/0.200 =LLCALS5.D 6 0.030/0.300 =LLCALS6.D
7 0.040/0.400 =LLCALS7.D 8 0.080/0.800 =LLCALS8.D

		Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1)	I	FLUOROBENZENE**ISTD**	----------ISTD----------									
2)	T	Dichlorodi	0.253	0.244	0.229	0.245	0.232	0.210	0.217	0.211	0.230	7.11
3)	PT	Chloromethan	0.305	0.357	0.334	0.310	0.307	0.290	0.288	0.285	0.310	8.04
4)	CT	VinylChlorid	0.268	0.272	0.271	0.270	0.261	0.249	0.253	0.246	0.261	4.06
5)	T	Bromomethane	0.134	0.150	0.130	0.121	0.126	0.126	0.133	0.134	0.131	6.63
6)	T	Chloroethane	0.179	0.149	0.132	0.133	0.138	0.128	0.134	0.130	0.140	11.99
7)	T	dichloroflmetha	0.397	0.399	0.376	0.374	0.369	0.354	0.363	0.355	0.374	4.59
8)	T	Trichlorofma	0.330	0.346	0.312	0.320	0.339	0.302	0.320	0.311	0.323	4.59
9)	T	Ethylether	0.171	0.187	0.192	0.178	0.183	0.179	0.183	0.182	0.182	3.52
10)	T	dichlorotfluoro	0.250	0.248	0.223	0.235	0.236	0.219	0.222	0.218	0.231	5.61
11)	T	propyleneoxide	0.008	0.009	0.009	0.009	0.010	0.011	0.013	0.014	-----	
			Q A= 0.000 R=0.999 B= 0.010 C= -0.004									
12)	T	Acrolein	0.051	0.049	0.051	0.048	0.049	0.048	0.050	0.047	0.049	2.92
13)	CT	11dichlorthe	0.212	0.195	0.195	0.193	0.193	0.183	0.186	0.184	0.193	4.75
14)	T	Trichlorotfluor	0.199	0.199	0.187	0.192	0.192	0.178	0.185	0.182	0.189	4.10
15)	T	Acetone	0.097	0.101	0.091	0.078	0.079	0.074	0.076	0.070	0.083	13.70
16)	T	Iodomethane	0.364	0.288	0.265	0.253	0.260	0.259	0.263	0.263	0.277	13.32
17)	T	Carbon Dislf	0.605	0.576	0.557	0.565	0.573	0.538	0.546	0.519	0.560	4.68
18)	T	allylchloride	0.425	0.399	0.392	0.388	0.379	0.369	0.374	0.344	0.384	6.24
19)	T	methylacetate	0.043	0.041	0.038	0.037	0.040	0.040	0.041	0.042	0.040	5.09
20)	T	Methylchlorid	0.591	0.423	0.331	0.274	0.245	0.224	0.225	0.217	-----	
			Q A= -0.001 R=1.000 B= 0.215 C= 0.024									
21)	T	Acrylonitrile	0.072	0.084	0.086	0.079	0.082	0.080	0.081	0.077	0.080	5.45
22)	T	t12dichlorte	0.251	0.220	0.223	0.220	0.216	0.205	0.210	0.208	0.219	6.58
23)	T	tbutylalcohol	0.022	0.025	0.025	0.023	0.025	0.024	0.025	0.022	0.024	5.02
24)	T	MtBE	0.501	0.515	0.528	0.493	0.523	0.509	0.525	0.513	2.39	

			0.509								
25)	T	Hexane	0.373	0.311	0.285	0.293	0.303	0.271	0.282	0.299	11.18
			0.271								
26)	PT	11dichlorota	0.425	0.426	0.411	0.410	0.421	0.395	0.396	0.409	3.50
			0.389								
27)	T	Vinylacetate	0.404	0.438	0.477	0.460	0.459	0.415	0.386	0.434	7.69
28)	T	chloroprene	0.381	0.405	0.381	0.388	0.393	0.365	0.368	0.378	5.24
			0.341								
29)	T	Diisopether	0.861	0.905	0.920	0.857	0.870	0.835	0.840	0.858	5.15
			0.776								
30)	T	ETBE	0.545	0.574	0.576	0.574	0.602	0.592	0.618	0.585	3.85
			0.600								
31)	T	22dichloropr	0.295	0.275	0.264	0.278	0.281	0.270	0.277	0.277	3.20
			0.277								
32)	T	c12dichlorte	0.262	0.251	0.249	0.242	0.243	0.237	0.240	0.245	3.80
			0.233								
33)	T	2Butanone	0.020	0.020	0.022	0.021	0.022	0.021	0.022	0.021	3.45
			0.021								
34)	T	propionitrile	0.028	0.034	0.034	0.032	0.033	0.032	0.033	0.032	6.27
			0.031								
35)	T	Ethylacetate	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008#	5.59
			0.008								
36)	T	methacrylonitri	0.084	0.083	0.087	0.081	0.083	0.080	0.083	0.082	2.98
			0.079								
37)	T	Bromochlorma	0.106	0.111	0.116	0.113	0.112	0.108	0.110	0.110	3.35
			0.104								
38)	T	Tetrahydofur	0.079	0.084	0.085	0.075	0.077	0.074	0.074	0.077	6.90
			0.069								
39)	CT	Chloroform	0.388	0.420	0.406	0.382	0.385	0.374	0.378	0.388	4.29
			0.373								
40)	T	111trichlota	0.352	0.339	0.327	0.338	0.348	0.323	0.330	0.336	3.16
			0.328								
41)	S	SURRDibrflma	0.261	0.265	0.262	0.256	0.258	0.246	0.256	0.257	2.28
			0.255								
42)	T	Cyclohexane	0.426	0.415	0.386	0.401	0.405	0.379	0.393	0.399	4.15
			0.383								
43)	T	Carbtetraclo	0.268	0.273	0.264	0.276	0.288	0.273	0.280	0.276	3.00
			0.285								
44)	T	11dicloprope	0.100	0.110	0.101	0.109	0.110	0.104	0.106	0.106	3.66
			0.106								
45)	S	SURR12DCAd4	0.057	0.059	0.060	0.056	0.057	0.056	0.057	0.057	2.61
			0.056								
46)	T	Benzene	0.892	0.904	0.902	0.847	0.864	0.824	0.834	0.858	4.58
			0.797								
47)	T	12dichlorota	0.285	0.323	0.308	0.285	0.296	0.286	0.291	0.295	4.79
			0.283								
48)	T	TAME	0.402	0.441	0.437	0.423	0.451	0.458	0.482	0.447	6.10
			0.480								
49)	T	trichloroete	0.230	0.231	0.225	0.223	0.230	0.219	0.223	0.225	2.01
			0.221								
50)	T	methylcyclohexa	0.348	0.366	0.329	0.347	0.357	0.322	0.344	0.343	4.32
			0.330								
51)	CT	12dicloropra	0.263	0.269	0.260	0.247	0.250	0.246	0.251	0.254	3.48
			0.245								
52)	T	23dicl1propene	0.314	0.310	0.347	0.333	0.339	0.335	0.339	0.332	3.87
			0.335								
53)	T	Dibromometha	0.135	0.128	0.135	0.131	0.136	0.128	0.132	0.132	2.22
			0.132								
54)	T	methylmethacryl	0.139	0.133	0.140	0.133	0.145	0.142	0.143	0.140	3.33
			0.144								
55)	T	14dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	3.71
			0.002								
56)	T	Bromodiclrma	0.266	0.284	0.298	0.286	0.286	0.281	0.287	0.284	3.12
			0.287								
57)	T	2Nitropropane	0.037	0.038	0.045	0.044	0.052	0.054	0.057	-----	
			0.056								

Q A= 0.000 R=0.999
B= 0.056
C= -0.029

58)	T	c13dicloproe	0.338	0.352	0.356	0.338	0.350	0.343	0.350	0.346	1.96
			0.342								
59)	T	4Meth2Pentan	0.213	0.240	0.247	0.225	0.229	0.214	0.211	0.219	10.71
			0.170								
60)	S	SURRd8Tolule	0.989	0.990	0.990	0.987	0.985	0.961	0.973	0.980	1.22
			0.964								
61)	CT	Toluene	0.527	0.557	0.540	0.520	0.529	0.511	0.512	0.524	3.56
			0.497								
62)	T	t13Dicloprop	0.272	0.270	0.283	0.282	0.290	0.288	0.299	0.284	3.43
			0.289								
63)	T	ethylmethacryla	0.253	0.260	0.269	0.251	0.264	0.258	0.264	0.259	2.41
			0.253								
64)	T	112Triclotha	0.157	0.161	0.164	0.155	0.159	0.158	0.162	0.159	1.92
			0.157								
65)	T	Tetrachlorte	0.293	0.264	0.257	0.270	0.272	0.252	0.263	0.266	4.74
			0.260								
66)	T	13Diclorpropa	0.307	0.343	0.333	0.313	0.318	0.312	0.314	0.318	4.25
			0.303								
67)	I	d5-CHLOROBENZENE**IST	----------ISTD----------								
68)	T	2Hexanone	0.195	0.214	0.218	0.203	0.211	0.208	0.204	0.204	6.43
			0.176								
69)	T	Clorodibrmta	0.242	0.273	0.282	0.273	0.293	0.302	0.305	0.286	8.32
			0.317								
70)	T	12Dibrometha	0.245	0.235	0.248	0.246	0.258	0.261	0.267	0.253	4.21
			0.261								
71)	PT	Chlorobenzen	0.820	0.848	0.838	0.798	0.790	0.787	0.782	0.803	3.65
			0.763								
72)	T	1Clhexane	0.416	0.395	0.344	0.365	0.367	0.356	0.364	0.372	6.19
			0.366								
73)	T	1112Tetclota	0.265	0.280	0.276	0.284	0.291	0.296	0.305	0.289	5.22
			0.310								
74)	CT	Ethylbenzene	1.304	1.320	1.332	1.293	1.310	1.281	1.276	1.293	2.53
			1.227								
75)	T	m p-Xylene	0.519	0.485	0.495	0.482	0.474	0.473	0.475	0.484	3.47
			0.466								
76)	T	o-Xylene	0.489	0.478	0.481	0.477	0.488	0.479	0.485	0.482	0.94
			0.481								
77)	T	Styrene	0.795	0.794	0.819	0.798	0.814	0.822	0.829	0.810	1.65
			0.806								
78)	PT	Bromoform	0.174	0.187	0.185	0.185	0.196	0.209	0.218	0.198	9.38
			0.227								
79)	T	Isopropylben	1.308	1.299	1.298	1.294	1.292	1.281	1.278	1.283	2.37
			1.211								
80)	I	d4-1,4-DICHLOROBENZEN	----------ISTD----------								
81)	T	cyclohexanone	0.019	0.020	0.020	0.018	0.019	0.019	0.019	0.019	2.95
			0.019								
82)	S	SURR4BrFBenz	0.885	0.869	0.862	0.869	0.864	0.886	0.864	0.871	1.08
			0.870								
83)	T	Bromobenzene	0.693	0.722	0.687	0.683	0.697	0.688	0.691	0.692	1.97
			0.677								
84)	PT	1122Tetrclta	0.533	0.619	0.643	0.604	0.608	0.610	0.611	0.603	5.25
			0.592								
85)	T	123Triclproa	0.625	0.688	0.611	0.656	0.676	0.675	0.692	0.663	4.51
			0.678								
86)	T	14dichloro2bute	0.148	0.157	0.153	0.148	0.159	0.159	0.169	0.157	4.63
			0.163								
87)	T	n-Propylbenz	2.866	2.708	2.628	2.706	2.683	2.603	2.614	2.653	4.76
			2.419								
88)	T	2chlorotolue	1.767	1.705	1.656	1.643	1.649	1.605	1.609	1.648	3.96
			1.553								
89)	T	4chlorotolue	1.983	1.968	1.957	1.870	1.857	1.824	1.824	1.878	4.48
			1.744								
90)	T	135Trimebenz	1.874	1.873	1.884	1.888	1.903	1.874	1.874	1.872	1.46
			1.810								
91)	T	tbutylbenzen	1.813	1.735	1.713	1.778	1.745	1.735	1.731	1.741	2.35
			1.675								
92)	T	124Trimetben	1.877	1.935	1.895	1.919	1.915	1.887	1.861	1.888	2.03
			1.815								

93)	T	sbutylbenzen	2.505	2.440	2.438	2.561	2.524	2.467	2.472	2.467	2.79
			2.332								
94)	T	13Diclorbenz	1.308	1.327	1.265	1.271	1.249	1.217	1.233	1.257	3.66
			1.188								
95)	T	pIsopropylto	2.001	2.109	2.011	2.093	2.101	2.038	2.053	2.046	2.63
			1.958								
96)	T	14dichlorobe	1.350	1.297	1.298	1.223	1.220	1.228	1.232	1.255	4.28
			1.192								
97)	T	12dichlorobe	1.246	1.237	1.233	1.184	1.181	1.172	1.169	1.196	3.15
			1.144								
98)	T	nButylbenzen	1.899	1.723	1.714	1.743	1.734	1.682	1.685	1.727	4.46
			1.640								
99)	T	12dibromo3cl	0.115	0.129	0.131	0.121	0.135	0.135	0.141	0.131	6.95
			0.140								
100)	T	135Trichloroben	0.962	0.948	0.924	0.896	0.902	0.864	0.882	0.906	4.02
			0.867								
101)	T	124Trichlobe	0.920	0.858	0.817	0.813	0.834	0.801	0.807	0.831	4.97
			0.796								
102)	T	Hexachlorobu	0.586	0.516	0.502	0.518	0.541	0.517	0.529	0.530	4.83
			0.527								
103)	T	Naphthalene	1.584	1.602	1.606	1.556	1.631	1.614	1.647	1.602	1.87
			1.573								
104)	T	123Trichlben	0.820	0.776	0.810	0.760	0.779	0.772	0.785	0.783	2.72
			0.764								

Total Average %RSD 4.51

L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
(#) = Out of Range

LS042717.M Wed May 03 15:43:43 2017

Data File : C:\Instarch\Data\APR2717\BFB1.D Vial: 1
Acq On : 27 Apr 2017 10:40 Operator: RLD-AGK
Sample : BFB INJ Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS042717.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.787 to 4.794 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	6719	PASS
75	95	30	60	42.4	14818	PASS
95	95	100	100	100.0	34957	PASS
96	95	5	9	5.6	1970	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.1	32546	PASS
175	174	5	9	6.0	1968	PASS
176	174	95	101	97.8	31821	PASS
177	176	5	9	8.9	2844	PASS

LS042717.M Wed May 03 15:28:22 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS1.D Vial: 4
Acq On : 27 Apr 2017 11:50 Operator: RLD-AGK
Sample : 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 27 16:36:39 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:33:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1373988	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1089342	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	590253	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	359131	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	78701	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1359056	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	522618	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	17394m	0.0011	mg/kg#	99
3) Chloromethan	2.12	50	20923m	0.0009	mg/kg	94
4) VinylChlorid	2.27	62	18411	0.0010	mg/kg	81
5) Bromomethane	2.75	94	9179m	0.0010	mg/kg	93
6) Chloroethane	2.92	64	12289	0.0013	mg/kg	91
7) dichloroflmethane	3.23	67	27302	0.0011	mg/kg	99
8) Trichlorofma	3.30	101	22677	0.0010	mg/kg	96
9) Ethylether	3.75	59	11726	0.0009	mg/kg	90
10) dichlorotfluoroethan	3.77	67	17175	0.0011	mg/kg	95
11) propyleneoxide	3.81	58	5718m	0.0080	mg/kg#	44
12) Acrolein	3.91	56	17550	0.0052	mg/kg#	61
13) 11dichlorthe	4.02	96	14535	0.0011	mg/kg	96
14) Trichlorotfluoroeth	4.06	101	27375	0.0021	mg/kg	95
15) Acetone	4.13	43	66384m	0.0113	mg/kg	98
16) Iodomethane	4.23	142	50062	0.0026	mg/kg	94
17) Carbon Dislf	4.30	76	83098	0.0022	mg/kg	98
18) allylchloride	4.54	41	58397	0.0022	mg/kg	99
19) methylacetate	4.62	74	2980	0.0011	mg/kg#	37
20) Methylchlorid	4.70	84	40570m	0.0017	mg/kg#	97
21) Acrylonitrile	5.04	53	24800	0.0045	mg/kg	95
22) t12dichlorte	5.06	96	17261	0.0011	mg/kg	91
23) tbutylalcohol	4.91	59	77048	0.0469	mg/kg	98
24) MtBE	5.08	73	34443	0.0010	mg/kg	92
25) Hexane	5.43	57	51311	0.0025	mg/kg	98
26) 11dichlorota	5.60	63	29171	0.0010	mg/kg	97
27) Vinylacetate	5.70	43	277726	0.0098	mg/kg	99
28) chloroprene	5.73	53	52310	0.0020	mg/kg	99
29) Diisopether	5.72	45	59143	0.0010	mg/kg#	78
30) ETBE	6.17	59	37415	0.0009	mg/kg	95
31) 22dichloropr	6.34	77	20244	0.0011	mg/kg	99
32) c12dichlorte	6.34	96	18024	0.0011	mg/kg	96
33) 2Butanone	6.38	72	13937	0.0096	mg/kg	94
34) propionitrile	6.44	54	19420	0.0088	mg/kg	96
35) Ethylacetate	6.45	88	2318	0.0045	mg/kg#	80
36) methacrylonitrile	6.62	67	11565	0.0020	mg/kg#	83
37) Bromochlorma	6.63	128	7301	0.0010	mg/kg	95
38) Tetrahydofur	6.70	42	54369	0.0102	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS1.D Vial: 4
Acq On : 27 Apr 2017 11:50 Operator: RLD-AGK
Sample : 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 27 16:36:39 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:33:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.74	83	26648	0.0010 mg/kg	94
40) 111trichlota	6.97	97	24209	0.0011 mg/kg	93
42) Cyclohexane	7.03	56	29274	0.0011 mg/kg	96
43) Carbtetraclo	7.17	119	18395	0.0010 mg/kg	99
44) 11dicloprope	7.16	110	6893	0.0009 mg/kg	92
46) Benzene	7.43	78	61263	0.0010 mg/kg	97
47) 12dichlorota	7.45	62	19547	0.0010 mg/kg	98
48) TAME	7.58	73	27599	0.0009 mg/kg	99
49) trichloroete	8.24	95	15801	0.0010 mg/kg	97
50) methylcyclohexane	8.48	83	23902	0.0010 mg/kg	95
51) 12dicloropra	8.51	63	18038	0.0010 mg/kg	89
52) 23dicl1propene	8.58	75	21596	0.0009 mg/kg	97
53) Dibromometha	8.66	93	9298	0.0010 mg/kg	96
54) methylmethacrylate	8.67	69	9540	0.0010 mg/kg	92
55) 14dioxane	8.70	88	7743	0.0491 mg/kg	96
56) Bromodiclrma	8.86	83	18280	0.0009 mg/kg	95
57) 2Nitropropane	9.14	43	25282	0.0077 mg/kg	93
58) c13dicloproe	9.43	75	23233	0.0010 mg/kg	97
59) 4Meth2Pentan	9.63	43	146208	0.0097 mg/kg	99
61) Toluene	9.87	92	36225	0.0010 mg/kg	95
62) t13Dicloprop	10.15	75	18662	0.0010 mg/kg	87
63) ethylmethacrylate	10.28	69	34760	0.0020 mg/kg	96
64) 112Triclotha	10.39	83	10771	0.0010 mg/kg	93
65) Tetrachlorte	10.60	166	20153	0.0011 mg/kg	98
66) 13Diclorpropa	10.62	76	21058	0.0010 mg/kg	97
68) 2Hexanone	10.72	43	106431	0.0096 mg/kg	99
69) Clorodibrmta	10.92	129	13154	0.0008 mg/kg	91
70) 12Dibrometha	11.07	107	13370	0.0010 mg/kg	95
71) Chlorobenzen	11.75	112	44647	0.0010 mg/kg#	80
72) 1Clhexane	11.71	91	22680	0.0011 mg/kg#	70
73) 1112Tetclota	11.86	131	14456	0.0009 mg/kg	88
74) Ethylbenzene	11.90	91	71047	0.0010 mg/kg	97
75) m p-Xylene	12.06	106	56530	0.0021 mg/kg	90
76) o-Xylene	12.62	106	26636	0.0010 mg/kg	97
77) Styrene	12.63	104	43289	0.0010 mg/kg	99
78) Bromoform	12.88	173	9460	0.0009 mg/kg	99
79) Isopropylben	13.13	105	71270	0.0010 mg/kg	99
81) cyclohexanone	13.25	55	11000	0.0195 mg/kg#	95
83) Bromobenzene	13.56	156	20445	0.0010 mg/kg	93
84) 1122Tetrclta	13.55	83	15738	0.0009 mg/kg	92
85) 123Triclproa	13.61	75	18432	0.0009 mg/kg	91
86) 14dichloro2butene	13.64	53	4373	0.0009 mg/kg#	78
87) n-Propylbenz	13.72	91	84583	0.0011 mg/kg	99
88) 2chlorotolue	13.85	91	52136	0.0011 mg/kg	99
89) 4chlorotolue	14.00	91	58527	0.0011 mg/kg	99
90) 135Trimebenz	13.98	105	55296	0.0010 mg/kg	96
91) tbutylbenzen	14.45	119	53492	0.0010 mg/kg	97
92) 124Trimetben	14.52	105	55395	0.0010 mg/kg	100
93) sbutylbenzen	14.77	105	73918	0.0010 mg/kg	100
94) 13Diclorbenz	14.93	146	38610	0.0010 mg/kg	97
95) pIsopropylto	14.98	119	59055	0.0010 mg/kg	98
96) 14dichlorobe	15.05	146	39836	0.0011 mg/kg	91
97) 12dichlorobe	15.60	146	36781	0.0010 mg/kg	89
98) nButylbenzen	15.58	91	56045	0.0011 mg/kg	95
99) 12dibromo3cl	16.70	157	3395	0.0009 mg/kg	97
100) 135Trichlorobenzene	17.01	180	28404	0.0011 mg/kg	99
101) 124Trichlobe	17.82	180	27157	0.0011 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS1.D Vial: 4
Acq On : 27 Apr 2017 11:50 Operator: RLD-AGK
Sample : 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 27 16:36:39 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:33:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	17305	0.0011 mg/kg	95
103) Naphthalene	18.13	128	46758	0.0010 mg/kg	97
104) 123Trichlben	18.44	180	24199	0.0010 mg/kg	94

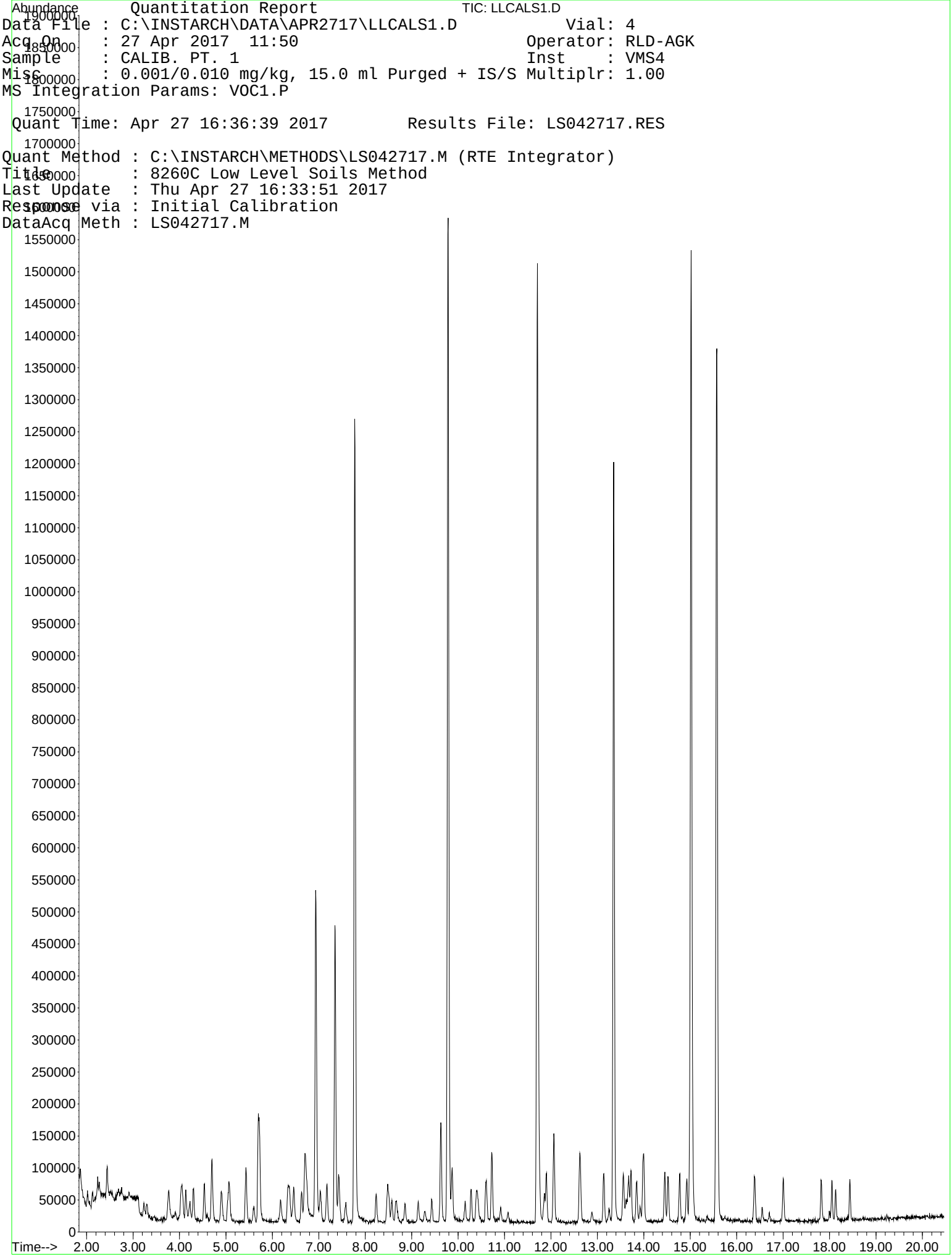
(#) = qualifier out of range (m) = manual integration

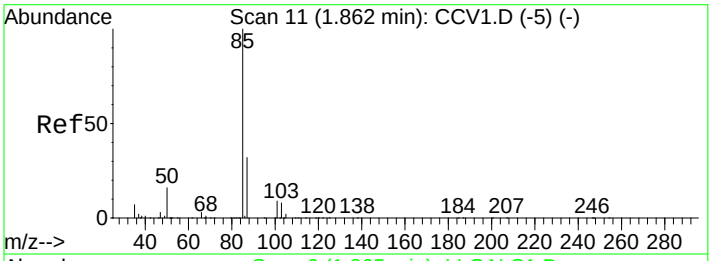
Quantitation Report (TIC: LLCALS1.D)

Data File : C:\INSTARCH\DATA\APR2717\LLCALS1.D Vial: 4
Acq On : 27 Apr 2017 11:50 Operator: RLD-AGK
Sample : 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 27 16:36:39 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:33:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M





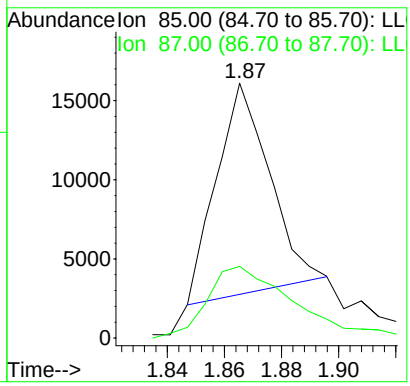
#2
Dichlorodi
Concen: 0.00 mg/kg m
RT: 1.87 min Scan# 6
Delta R.T. -0.00 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

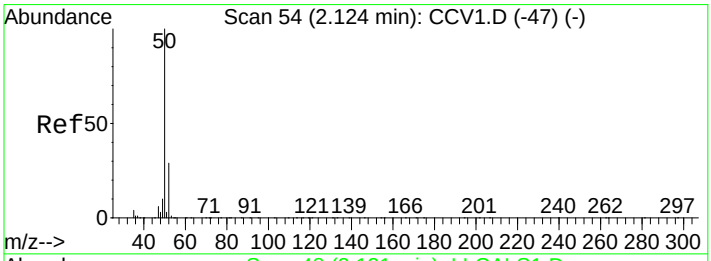
Tgt Ion: 85 Resp: 17394

Ion	Ratio	Lower	Upper
85	100		
87	52.9	11.9	51.9#

After Manual Integration

RJ 05/08/2017

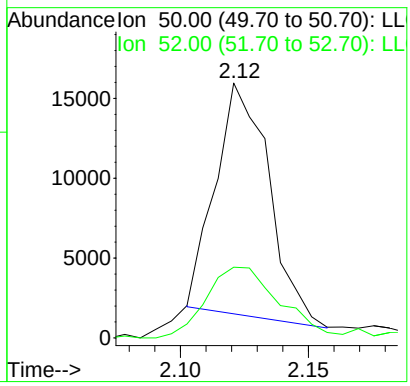




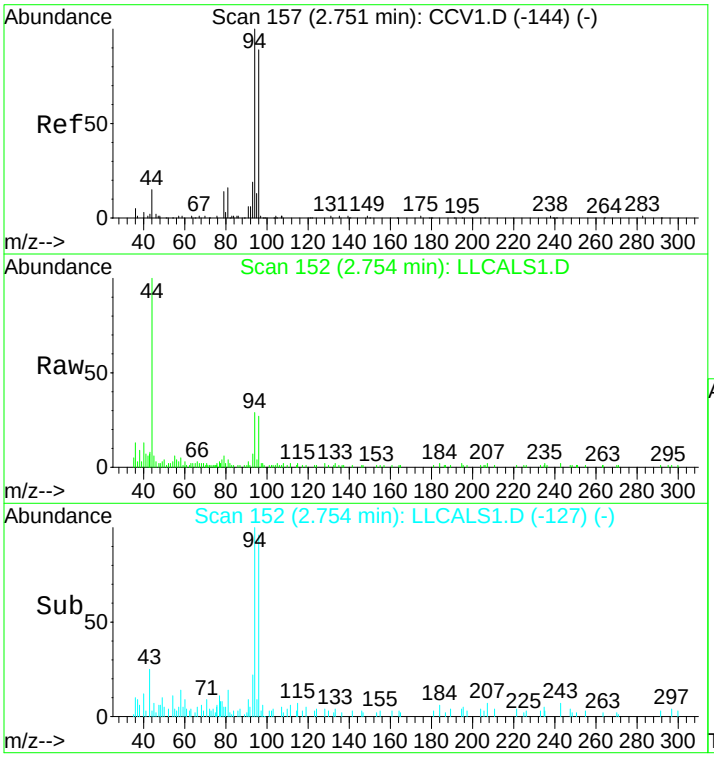
#3
Chloromethan
Concen: 0.00 mg/kg m
RT: 2.12 min Scan# 48
Delta R.T. -0.00 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

Tgt Ion: 50 Resp: 20923

Ion	Ratio	Lower	Upper
50	100		
52	43.6	14.3	54.3



AgK 05/08/17



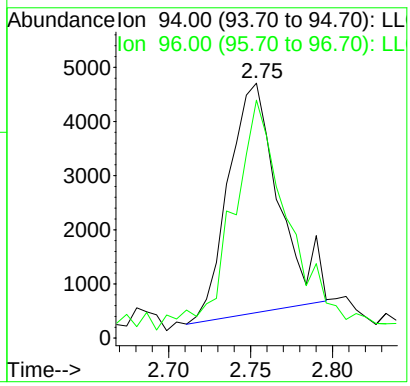
#5
Bromomethane
Concen: 0.00 mg/kg m
RT: 2.75 min Scan# 152
Delta R.T. -0.00 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

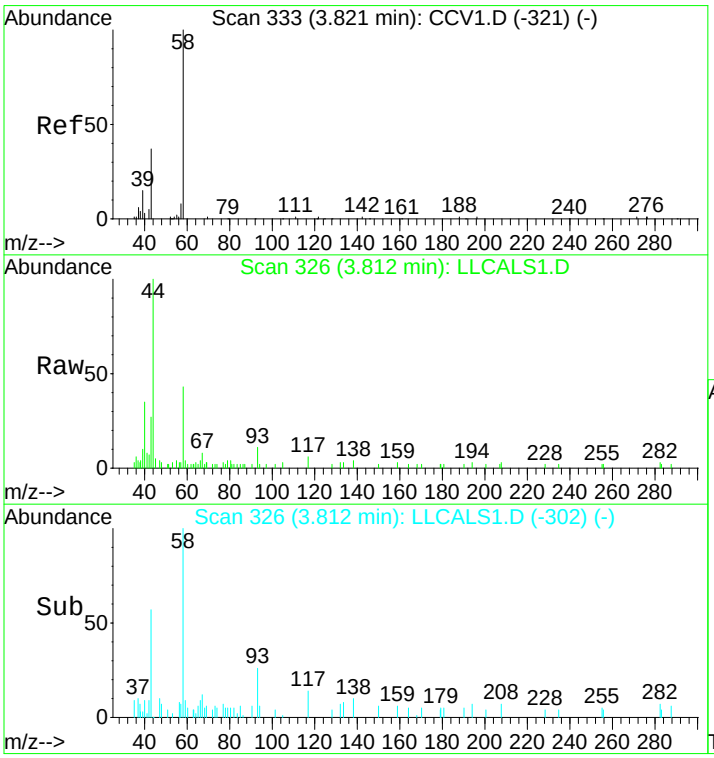
Tgt Ion: 94 Resp: 9179

Ion	Ratio	Lower	Upper
94	100		
96	114.8	75.7	115.7

After Manual Integration

RJ 05/08/2017

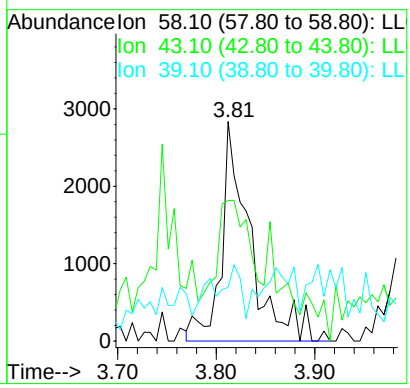




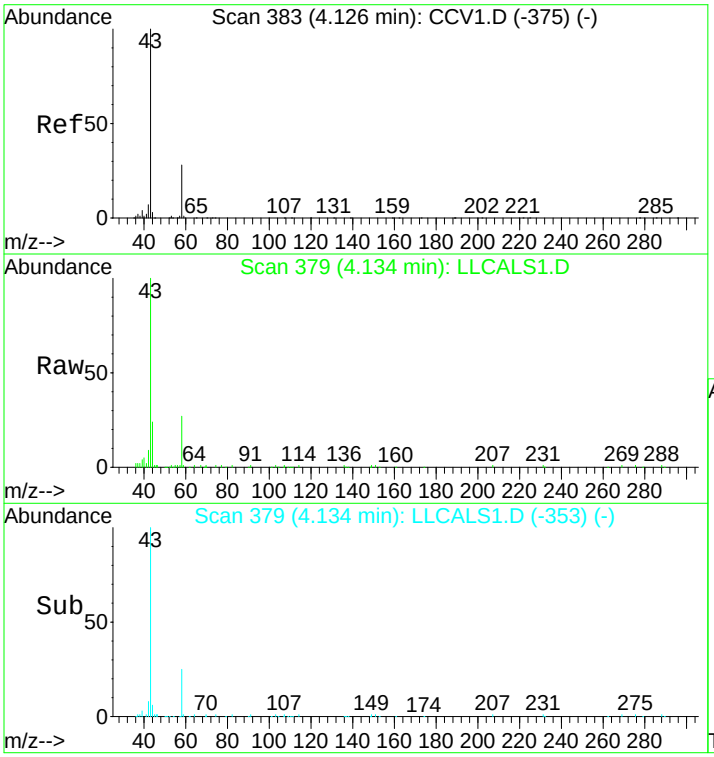
#11
propyleneoxide
Concen: 0.01 mg/kg m
RT: 3.81 min Scan# 326
Delta R.T. -0.01 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

Tgt Ion: 58 Resp: 5718

Ion	Ratio	Lower	Upper
58	100		
43	121.2	55.6	95.6#
39	22.0	0.0	34.2



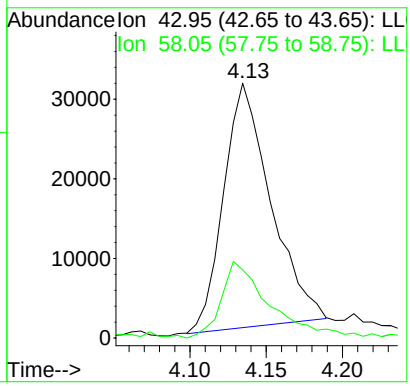
AgK 05/08/17



#15
Acetone
Concen: 0.01 mg/kg m
RT: 4.13 min Scan# 379
Delta R.T. 0.01 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

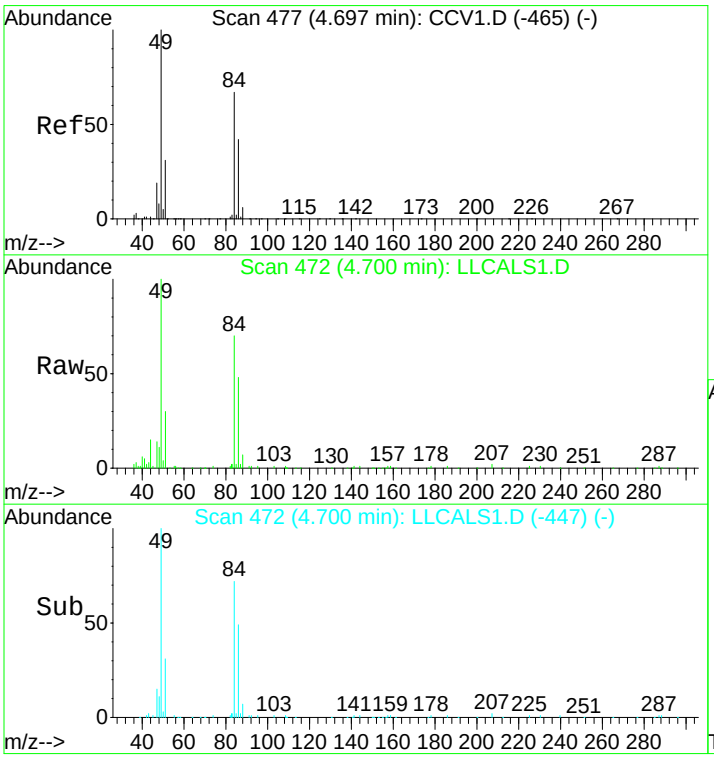
Tgt Ion: 43 Resp: 66384

Ion	Ratio	Lower	Upper
43	100		
58	33.7	7.4	47.4



After Manual Integration

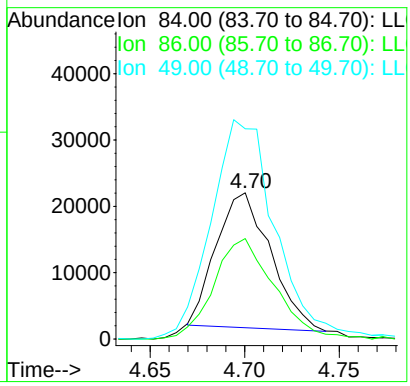
RJ 05/08/2017



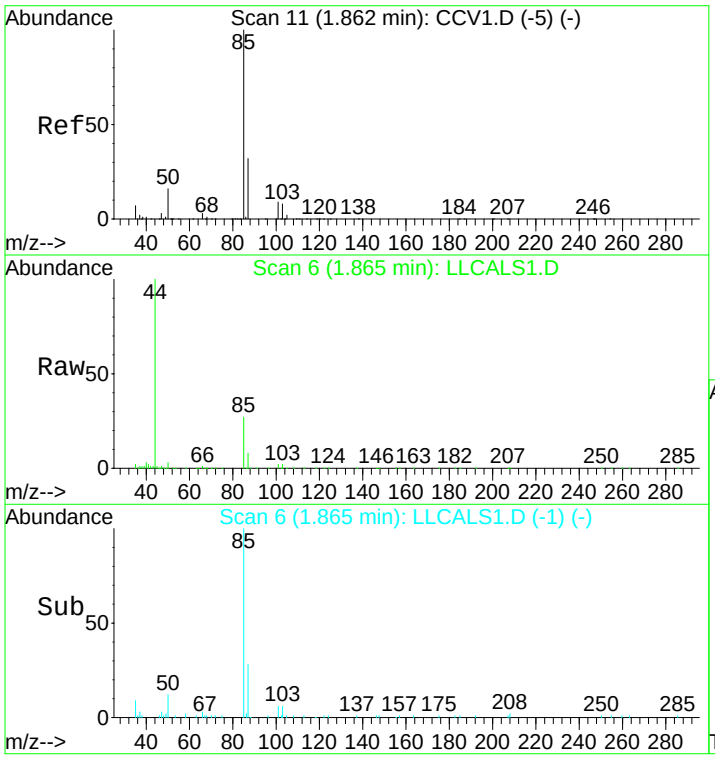
#20
Methylchlorid
Concen: 0.00 mg/kg m
RT: 4.70 min Scan# 472
Delta R.T. -0.00 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

Tgt Ion: 84 Resp: 40570

Ion	Ratio	Lower	Upper
84	100		
86	83.0	46.9	86.9
49	195.4	134.2	174.2#



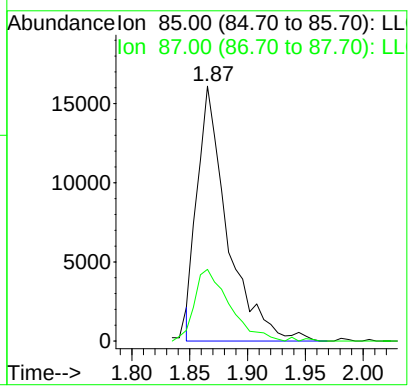
AgK 05/08/17



#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.87 min Scan# 6
Delta R.T. -0.00 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

Tgt Ion: 85 Resp: 29301

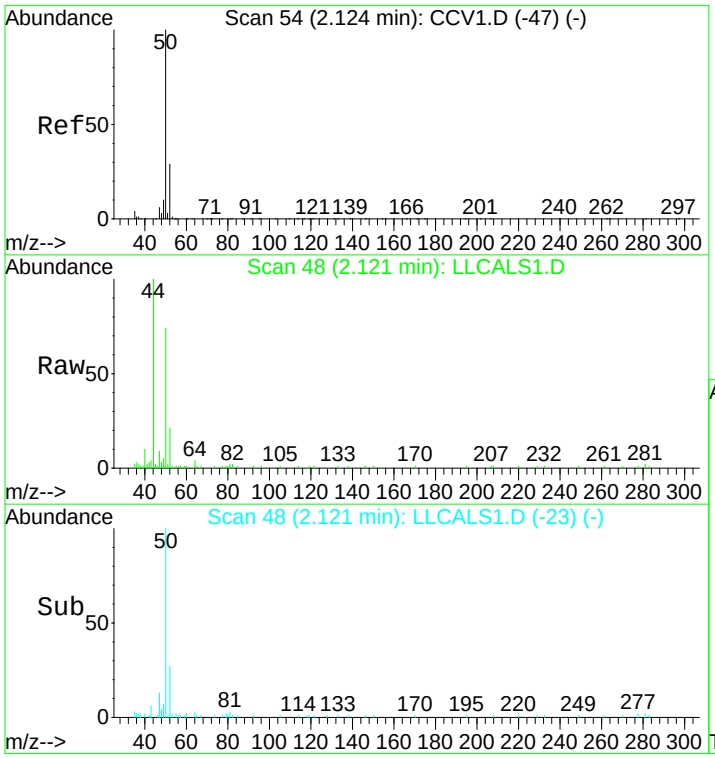
Ion	Ratio	Lower	Upper
85	100		
87	31.4	11.9	51.9



Before Manual Integration

05/08/2017

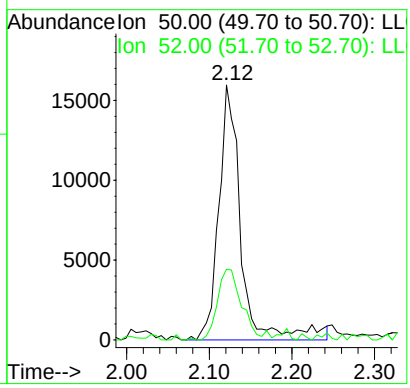
REASON # 2



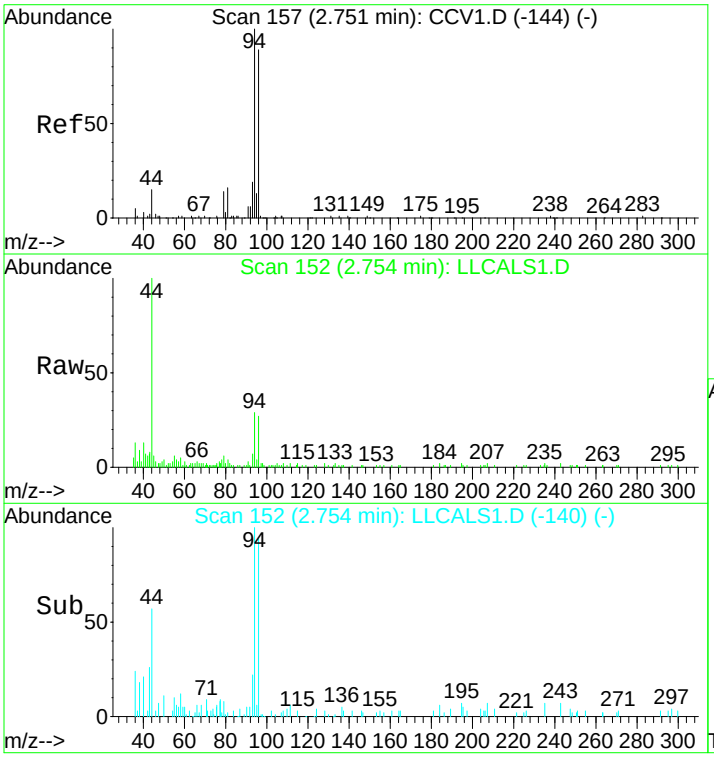
#3
Chloromethan
Concen: 0.00 mg/kg
RT: 2.12 min Scan# 48
Delta R.T. -0.00 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

Tgt Ion: 50 Resp: 29703

Ion	Ratio	Lower	Upper
50	100		
52	30.7	14.3	54.3



REASON # 2



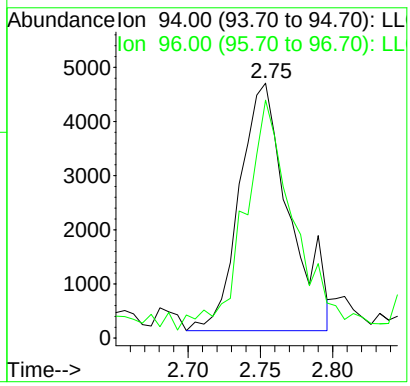
#5
Bromomethane
Concen: 0.00 mg/kg
RT: 2.75 min Scan# 152
Delta R.T. 0.00 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

Tgt Ion: 94 Resp: 10983

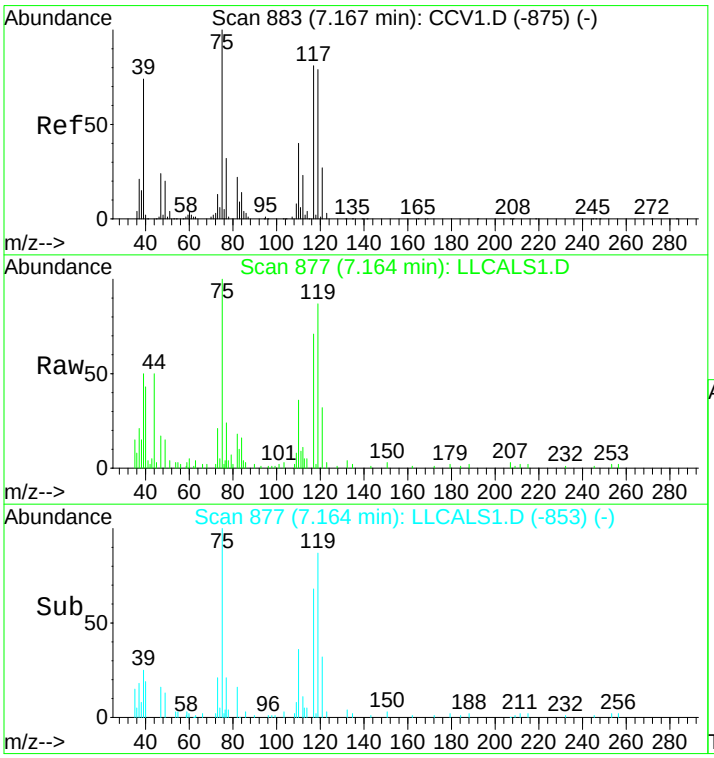
Ion	Ratio	Lower	Upper
94	100		
96	88.4	75.7	115.7

Before Manual Integration

05/08/2017



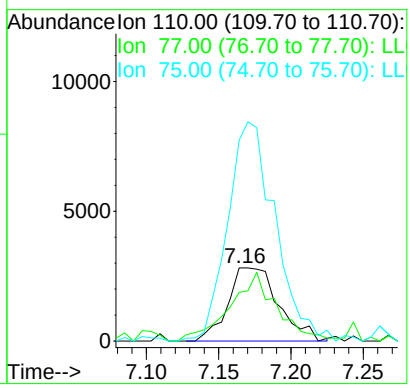
REASON # 2



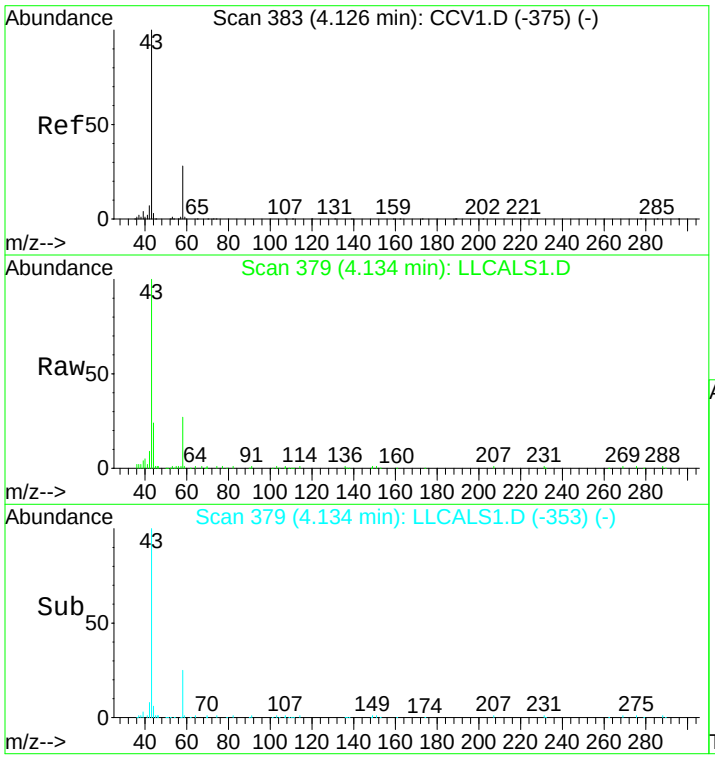
#44
11dicloprope
Concen: 0.00 mg/kg
RT: 7.16 min Scan# 877
Delta R.T. -0.01 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

Tgt Ion:110 Resp: 6893

Ion	Ratio	Lower	Upper
110	100		
77	86.0	65.8	105.8
75	281.4	241.7	281.7



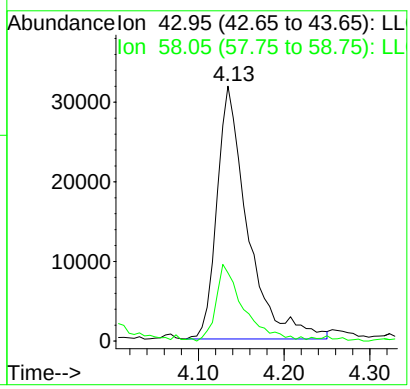
REASON # 2



#15
Acetone
Concen: 0.01 mg/kg
RT: 4.13 min Scan# 379
Delta R.T. 0.01 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

Tgt Ion: 43 Resp: 79060

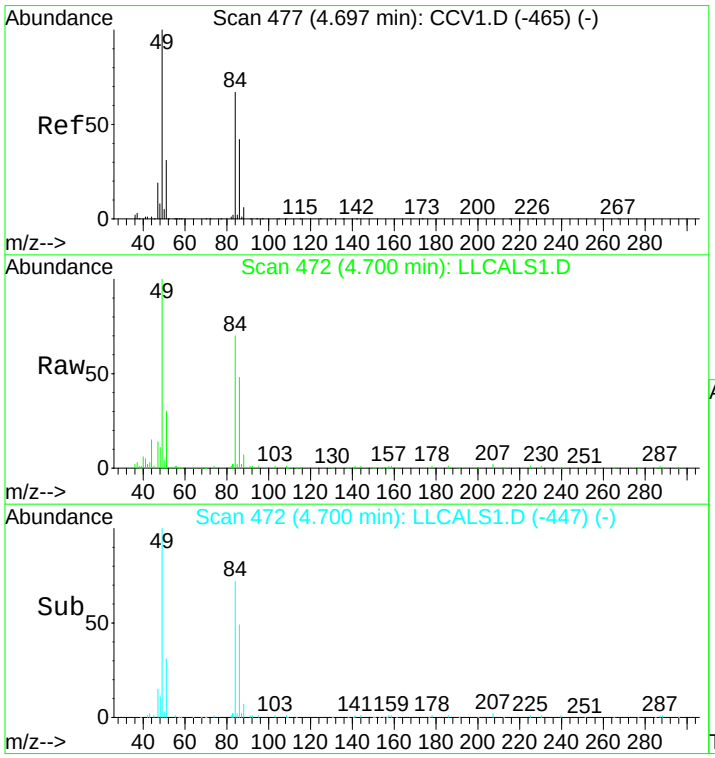
Ion	Ratio	Lower	Upper
43	100		
58	28.3	7.4	47.4



Before Manual Integration

05/08/2017

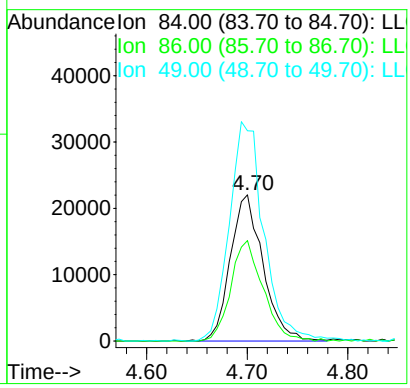
REASON # 2



#20
Methylchlorid
Concen: 0.00 mg/kg
RT: 4.70 min Scan# 472
Delta R.T. 0.00 min
Lab File: LLCALS1.D
Acq: 27 Apr 2017 11:50

Tgt Ion: 84 Resp: 49909

Ion	Ratio	Lower	Upper
84	100		
86	67.5	46.8	86.8
49	158.9	133.9	173.9



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS2.D Vial: 5
Acq On : 27 Apr 2017 12:19 Operator: RLD-AGK
Sample : 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 27 16:38:52 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:27:19 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1324470	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1047227	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	573054	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	351065	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	77820	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.79	98	1310671	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	498086	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	32342m	0.0021	mg/kg	100
3) Chloromethan	2.12	50	47307	0.0022	mg/kg	99
4) VinylChlorid	2.27	62	36063	0.0021	mg/kg	97
5) Bromomethane	2.75	94	19827	0.0022	mg/kg	93
6) Chloroethane	2.91	64	19698	0.0021	mg/kg	98
7) dichloroflmethane	3.23	67	52808	0.0021	mg/kg	98
8) Trichlorofma	3.30	101	45816	0.0021	mg/kg	99
9) Ethylether	3.75	59	24724	0.0021	mg/kg	94
10) dichlorotfluoroethan	3.76	67	32829	0.0021	mg/kg	93
11) propyleneoxide	3.81	58	11784	0.0171	mg/kg	88
12) Acrolein	3.91	56	32715	0.0101	mg/kg	91
13) 11dichlorthe	4.03	96	25837	0.0020	mg/kg	95
14) Trichlorotfluoroeth	4.06	101	52734	0.0042	mg/kg	96
15) Acetone	4.13	43	134001	0.0236	mg/kg	96
16) Iodomethane	4.22	142	76345	0.0042	mg/kg	99
17) Carbon Dislf	4.30	76	152608	0.0041	mg/kg	99
18) allylchloride	4.53	41	105770	0.0042	mg/kg	97
19) methylacetate	4.60	74	5374	0.0020	mg/kg	72
20) Methylchlorid	4.71	84	56044m	0.0025	mg/kg	99
21) Acrylonitrile	5.04	53	55769	0.0105	mg/kg	99
22) t12dichlorte	5.06	96	29200	0.0020	mg/kg	96
23) tbutylalcohol	4.90	59	165974	0.1048	mg/kg	97
24) MtBE	5.08	73	68183	0.0020	mg/kg	97
25) Hexane	5.43	57	82437	0.0042	mg/kg	95
26) 11dichlorota	5.60	63	56392	0.0021	mg/kg	99
27) Vinylacetate	5.69	43	579779	0.0211	mg/kg	100
28) chloroprene	5.72	53	107404	0.0043	mg/kg	96
29) Diisopether	5.72	45	119850	0.0021	mg/kg#	82
30) ETBE	6.18	59	76072	0.0020	mg/kg	95
31) 22dichloropr	6.33	77	36461	0.0020	mg/kg	98
32) c12dichlorte	6.34	96	33297	0.0021	mg/kg	97
33) 2Butanone	6.36	72	26964	0.0192	mg/kg	96
34) propionitrile	6.43	54	45330	0.0212	mg/kg	95
35) Ethylacetate	6.46	88	4806	0.0096	mg/kg#	84
36) methacrylonitrile	6.62	67	21985	0.0040	mg/kg	95
37) Bromochlorma	6.64	128	14733	0.0020	mg/kg	97
38) Tetrahydofur	6.70	42	111221	0.0217	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS2.D Vial: 5
Acq On : 27 Apr 2017 12:19 Operator: RLD-AGK
Sample : 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 27 16:38:52 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:27:19 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.74	83	55690	0.0022 mg/kg	93
40) 111trichlota	6.97	97	44845	0.0020 mg/kg	98
42) Cyclohexane	7.04	56	54997	0.0021 mg/kg	96
43) Carbtetraclo	7.18	119	36152	0.0020 mg/kg	98
44) 11dicloprope	7.17	110	14576	0.0021 mg/kg	99
46) Benzene	7.43	78	119741	0.0021 mg/kg	99
47) 12dichlorota	7.44	62	42795	0.0022 mg/kg	95
48) TAME	7.58	73	58392	0.0020 mg/kg	98
49) trichloroete	8.24	95	30620	0.0021 mg/kg	99
50) methylcyclohexane	8.48	83	48458	0.0021 mg/kg	99
51) 12dicloropra	8.51	63	35634	0.0021 mg/kg	91
52) 23dicl1propene	8.57	75	41017	0.0019 mg/kg	97
53) Dibromometha	8.65	93	16974	0.0019 mg/kg	93
54) methylmethacrylate	8.66	69	17581	0.0019 mg/kg	97
55) 14dioxane	8.69	88	15877	0.1044 mg/kg	98
56) Bromodiclrma	8.86	83	37591	0.0020 mg/kg	95
57) 2Nitropropane	9.14	43	50365	0.0159 mg/kg	95
58) c13dicloproe	9.43	75	46686	0.0020 mg/kg	94
59) 4Meth2Pentan	9.63	43	317750	0.0219 mg/kg	99
61) Toluene	9.87	92	73726	0.0021 mg/kg	97
62) t13Dicloprop	10.15	75	35711	0.0019 mg/kg	97
63) ethylmethacrylate	10.28	69	68812	0.0040 mg/kg	98
64) 112Triclotha	10.39	83	21338	0.0020 mg/kg	94
65) Tetrachlorte	10.60	166	34924	0.0020 mg/kg	95
66) 13Diclorpropa	10.61	76	45383	0.0022 mg/kg	97
68) 2Hexanone	10.72	43	224118	0.0210 mg/kg	99
69) Clorodibrmta	10.92	129	28613	0.0019 mg/kg	99
70) 12Dibrometha	11.08	107	24651	0.0019 mg/kg	93
71) Chlorobenzen	11.75	112	88786	0.0021 mg/kg	92
72) 1Clhexane	11.71	91	41388	0.0021 mg/kg	87
73) 1112Tetclota	11.86	131	29365	0.0019 mg/kg	95
74) Ethylbenzene	11.90	91	138192	0.0020 mg/kg	98
75) m p-Xylene	12.06	106	101595	0.0040 mg/kg	100
76) o-Xylene	12.62	106	50055	0.0020 mg/kg	98
77) Styrene	12.63	104	83197	0.0020 mg/kg	97
78) Bromoform	12.88	173	19593	0.0019 mg/kg	97
79) Isopropylben	13.14	105	135990	0.0020 mg/kg	99
81) cyclohexanone	13.25	55	22773	0.0415 mg/kg	100
83) Bromobenzene	13.56	156	41383	0.0021 mg/kg	98
84) 1122Tetrclta	13.55	83	35460	0.0021 mg/kg	98
85) 123Triclproa	13.61	75	39409	0.0021 mg/kg	100
86) 14dichloro2butene	13.64	53	9018	0.0020 mg/kg	95
87) n-Propylbenz	13.72	91	155179	0.0020 mg/kg	98
88) 2chlorotolue	13.84	91	97713	0.0021 mg/kg	99
89) 4chlorotolue	14.00	91	112773	0.0021 mg/kg	97
90) 135Trimebenz	13.98	105	107328	0.0020 mg/kg	97
91) tbutylbenzen	14.45	119	99450	0.0020 mg/kg	96
92) 124Trimetben	14.53	105	110903	0.0021 mg/kg	99
93) sbutylbenzen	14.77	105	139841	0.0020 mg/kg	100
94) 13Diclorbenz	14.92	146	76029	0.0021 mg/kg	99
95) pIsopropylto	14.99	119	120832	0.0021 mg/kg	99
96) 14dichlorobe	15.05	146	74336	0.0021 mg/kg	94
97) 12dichlorobe	15.60	146	70898	0.0021 mg/kg	96
98) nButylbenzen	15.58	91	98726	0.0020 mg/kg	97
99) 12dibromo3cl	16.70	157	7407	0.0020 mg/kg	98
100) 135Trichlorobenzene	17.01	180	54350	0.0021 mg/kg	97
101) 124Trichlobe	17.82	180	49186	0.0021 mg/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS2.D Vial: 5
Acq On : 27 Apr 2017 12:19 Operator: RLD-AGK
Sample : 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 27 16:38:52 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:27:19 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	29572	0.0019 mg/kg	99
103) Naphthalene	18.13	128	91786	0.0020 mg/kg	98
104) 123Trichlben	18.44	180	44458	0.0020 mg/kg	99

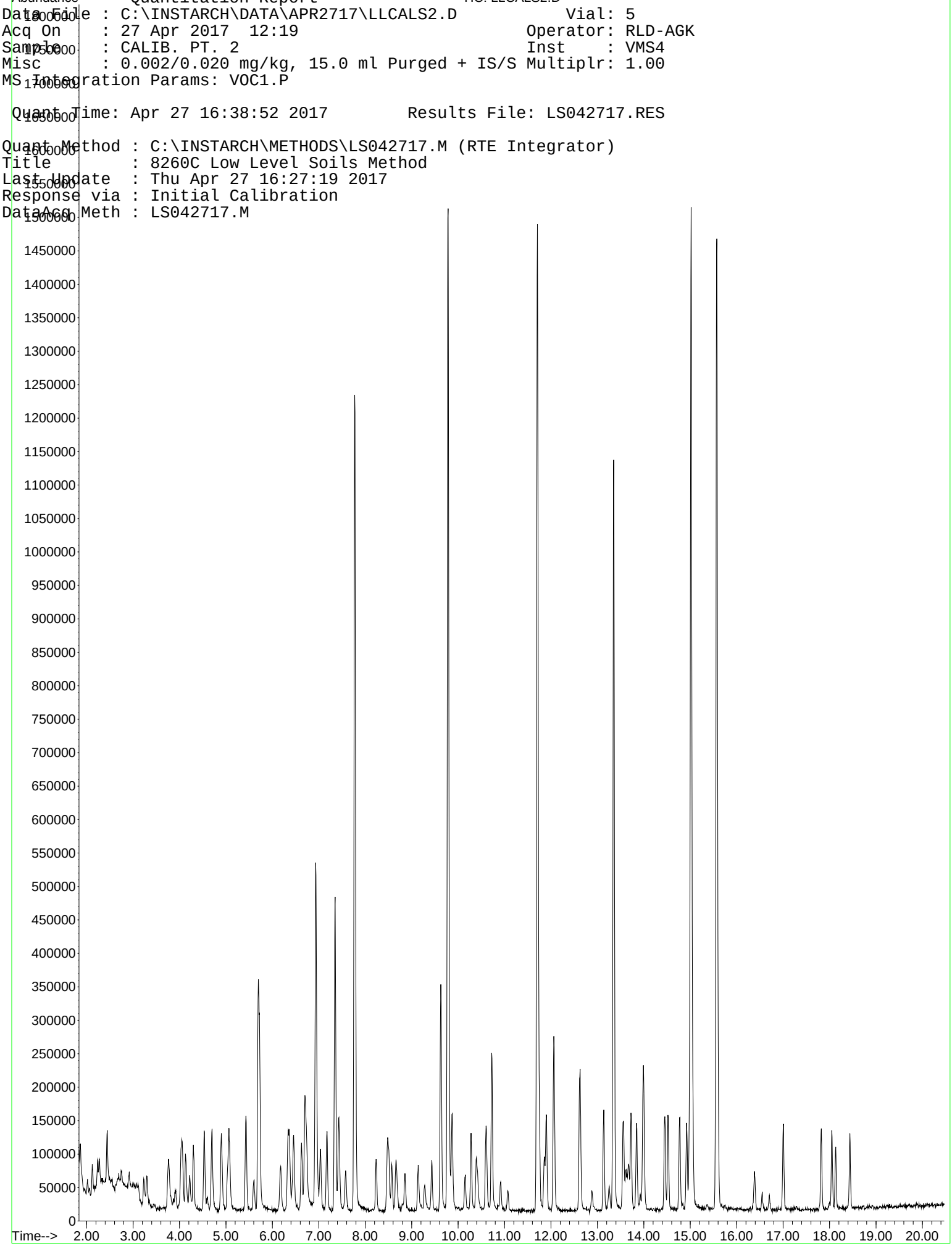
(#) = qualifier out of range (m) = manual integration

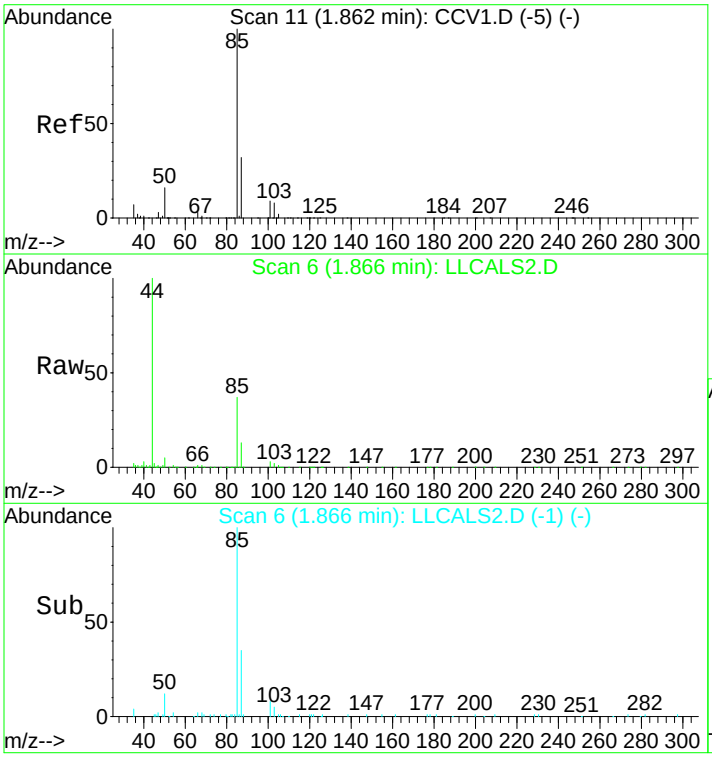
Abundance Quantitation Report TIC: LLCALS2.D

Data File : C:\INSTARCH\DATA\APR2717\LLCALS2.D Vial: 5
Acq On : 27 Apr 2017 12:19 Operator: RLD-AGK
Sample : 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 27 16:38:52 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:27:19 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

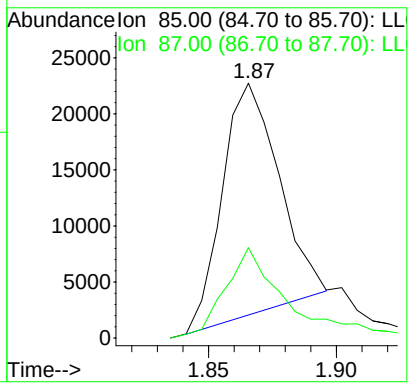




#2
Dichlorodi
Concen: 0.00 mg/kg m
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: LLCALS2.D
Acq: 27 Apr 2017 12:19

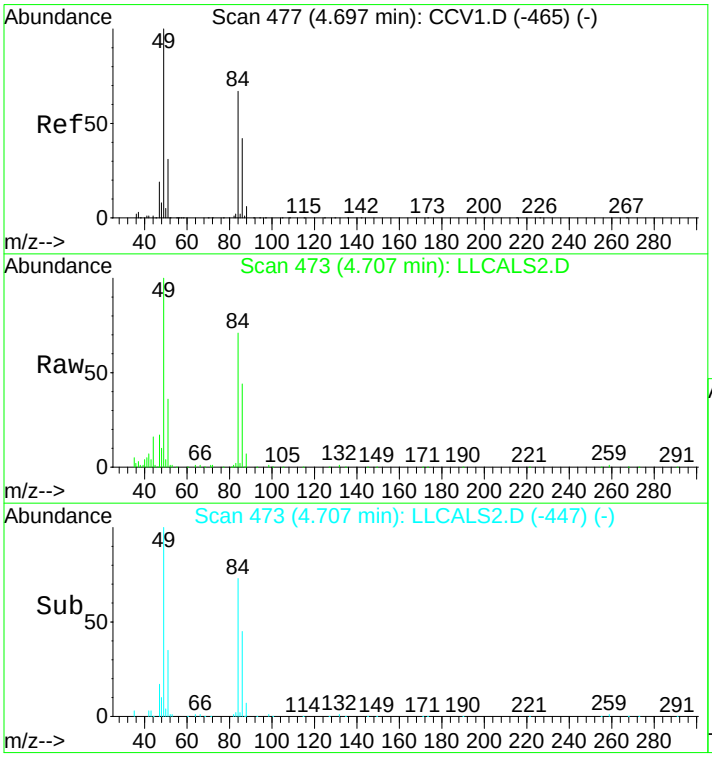
Tgt Ion: 85 Resp: 32342

Ion	Ratio	Lower	Upper
85	100		
87	42.3	11.9	51.9



After Manual Integration

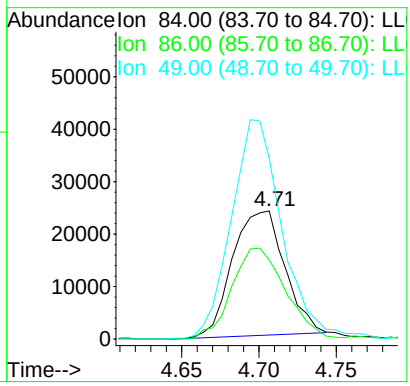
05/08/2017



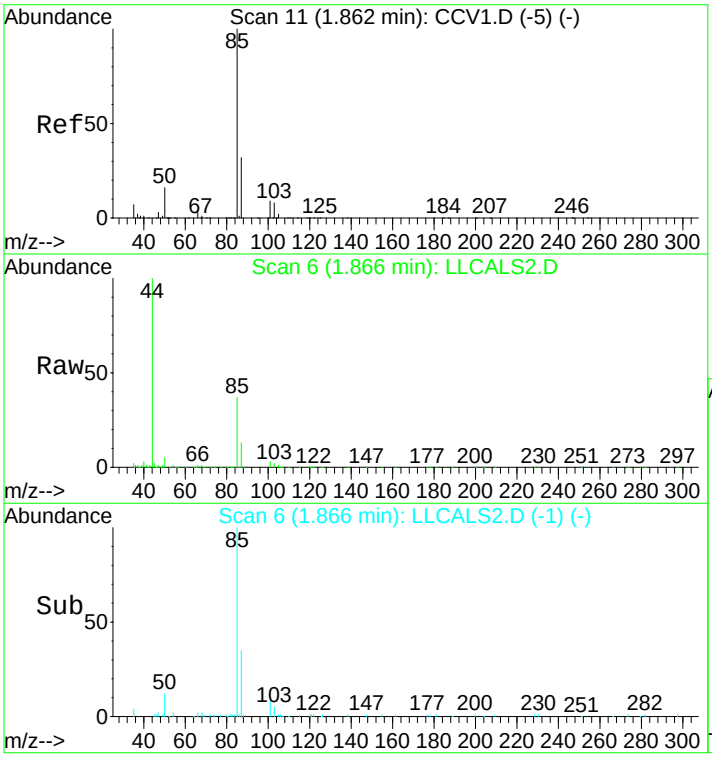
#20
Methylchlorid
Concen: 0.00 mg/kg m
RT: 4.71 min Scan# 473
Delta R.T. 0.01 min
Lab File: LLCALS2.D
Acq: 27 Apr 2017 12:19

Tgt Ion: 84 Resp: 56044

Ion	Ratio	Lower	Upper
84	100		
86	74.6	46.9	86.9
49	171.8	134.2	174.2



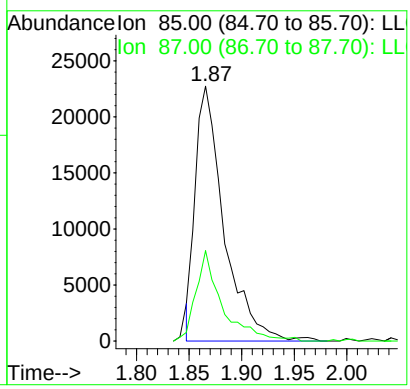
05/08/17



#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: LLCALS2.D
Acq: 27 Apr 2017 12:19

Tgt Ion: 85 Resp: 43267

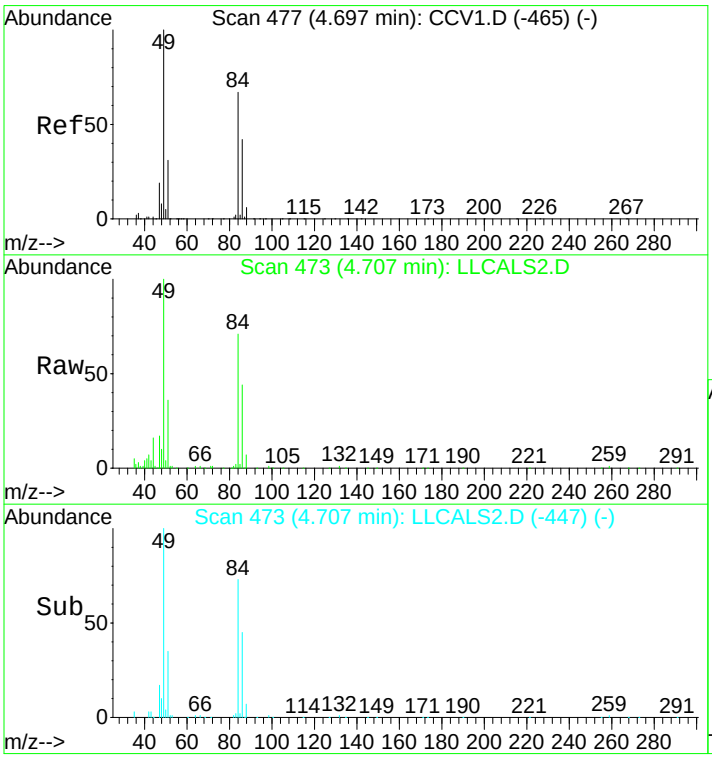
Ion	Ratio	Lower	Upper
85	100		
87	31.6	11.9	51.9



Before Manual Integration

05/08/2017

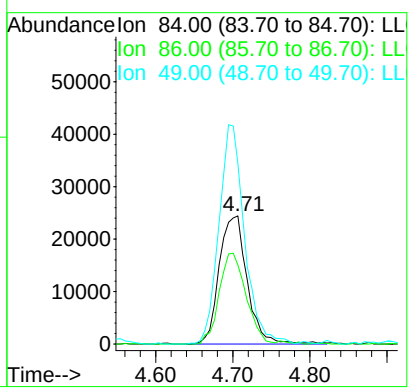
REASON # 2



#20
Methylchlorid
Concen: 0.00 mg/kg
RT: 4.71 min Scan# 473
Delta R.T. 0.01 min
Lab File: LLCALS2.D
Acq: 27 Apr 2017 12:19

Tgt Ion: 84 Resp: 61665

Ion	Ratio	Lower	Upper
84	100		
86	67.8	46.8	86.8
49	156.1	133.9	173.9



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS3.D Vial: 6
Acq On : 27 Apr 2017 12:48 Operator: RLD-AGK
Sample : 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 27 14:04:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:04:05 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1321823	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1047501	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	577275	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	345893	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	79677	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.79	98	1308161	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	497624	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	75573	0.0034	mg/kg	99
3) Chloromethan	2.12	50	110472	0.0046	mg/kg	99
4) VinylChlorid	2.27	62	89641	0.0050	mg/kg	98
5) Bromomethane	2.75	94	42822	0.0044	mg/kg	94
6) Chloroethane	2.92	64	43772	0.0043	mg/kg	89
7) dichloroflmethane	3.23	67	124299	0.0048	mg/kg	98
8) Trichlorofma	3.30	101	103207	0.0047	mg/kg	99
9) Ethylether	3.75	59	63596	0.0054	mg/kg	96
10) dichlorotfluoroethan	3.77	67	73612	0.0046	mg/kg	94
11) propyleneoxide	3.82	58	30774	0.0538	mg/kg	87
12) Acrolein	3.91	56	83593	0.0256	mg/kg	100
13) 11dichlorthe	4.04	96	64473	0.0049	mg/kg	98
14) Trichlorotfluoroeth	4.06	101	123877	0.0095	mg/kg	97
15) Acetone	4.13	43	301705	0.0465	mg/kg	98
16) Iodomethane	4.22	142	175062	0.0088	mg/kg	99
17) Carbon Dislf	4.30	76	368390	0.0096	mg/kg	100
18) allylchloride	4.54	41	259300	0.0097	mg/kg	98
19) methylacetate	4.60	74	12518	0.0047	mg/kg	93
20) Methylchlorid	4.70	84	109413	0.0034	mg/kg	97
21) Acrylonitrile	5.03	53	142415	0.0275	mg/kg	98
22) t12dichlorte	5.07	96	73840	0.0048	mg/kg	95
23) tbutylalcohol	4.90	59	418235	0.2692	mg/kg	99
24) MtBE	5.08	73	174451	0.0052	mg/kg	98
25) Hexane	5.43	57	188346	0.0087	mg/kg	97
26) 11dichlorota	5.61	63	135758	0.0049	mg/kg	98
27) Vinylacetate	5.69	43	1577432	0.0550	mg/kg	100
28) chloroprene	5.72	53	252119	0.0097	mg/kg	99
29) Diisopether	5.72	45	303855	0.0053	mg/kg	94
30) ETBE	6.18	59	190471	0.0051	mg/kg	98
31) 22dichloropr	6.34	77	87263	0.0047	mg/kg	97
32) c12dichlorte	6.34	96	82368	0.0049	mg/kg	97
33) 2Butanone	6.37	72	72906	0.0538	mg/kg	98
34) propionitrile	6.43	54	113649	0.0545	mg/kg	97
35) Ethylacetate	6.46	88	12113	0.0252	mg/kg#	72
36) methacrylonitrile	6.62	67	57171	0.0105	mg/kg	98
37) Bromochlorma	6.63	128	38172	0.0052	mg/kg	96
38) Tetrahydofur	6.70	42	280959	0.0537	mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS3.D Vial: 6
Acq On : 27 Apr 2017 12:48 Operator: RLD-AGK
Sample : 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 27 14:04:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:04:05 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.74	83	134073	0.0051 mg/kg	99
40) 111trichlota	6.96	97	107917	0.0048 mg/kg	99
42) Cyclohexane	7.04	56	127592	0.0047 mg/kg	97
43) Carbtetraclo	7.18	119	87189	0.0048 mg/kg	98
44) 11dicloprope	7.17	110	33379	0.0047 mg/kg	93
46) Benzene	7.43	78	298230	0.0051 mg/kg	99
47) 12dichlorota	7.44	62	101703	0.0052 mg/kg	99
48) TAME	7.58	73	144433	0.0052 mg/kg	98
49) trichloroete	8.23	95	74243	0.0049 mg/kg	98
50) methylcyclohexane	8.48	83	108790	0.0047 mg/kg	97
51) 12dicloropra	8.51	63	85857	0.0050 mg/kg	90
52) 23dicl1propene	8.58	75	114590	0.0054 mg/kg	100
53) Dibromometha	8.66	93	44542	0.0051 mg/kg	96
54) methylmethacrylate	8.67	69	46241	0.0052 mg/kg	95
55) 14dioxane	8.69	88	39737	0.2624 mg/kg	94
56) Bromodiclrma	8.86	83	98398	0.0053 mg/kg	95
57) 2Nitropropane	9.14	43	147676	0.0565 mg/kg	100
58) c13dicloproe	9.43	75	117782	0.0052 mg/kg	99
59) 4Meth2Pentan	9.63	43	814854	0.0546 mg/kg	99
61) Toluene	9.87	92	178478	0.0050 mg/kg	99
62) t13Dicloprop	10.15	75	93680	0.0052 mg/kg	96
63) ethylmethacrylate	10.28	69	177461	0.0105 mg/kg	98
64) 112Triclotha	10.39	83	54147	0.0052 mg/kg	98
65) Tetrachlorte	10.60	166	84918	0.0047 mg/kg	93
66) 13Diclorpropa	10.61	76	110165	0.0052 mg/kg	97
68) 2Hexanone	10.72	43	570866	0.0534 mg/kg	99
69) Clorodibrmta	10.92	129	73887	0.0054 mg/kg	99
70) 12Dibrometha	11.07	107	64871	0.0051 mg/kg	98
71) Chlorobenzen	11.75	112	219503	0.0051 mg/kg	98
72) 1Clhexane	11.71	91	90124	0.0044 mg/kg	88
73) 1112Tetclota	11.86	131	72322	0.0050 mg/kg	94
74) Ethylbenzene	11.90	91	348848	0.0051 mg/kg	97
75) m p-Xylene	12.06	106	259457	0.0100 mg/kg	98
76) o-Xylene	12.62	106	126039	0.0050 mg/kg	97
77) Styrene	12.63	104	214524	0.0051 mg/kg	98
78) Bromoform	12.88	173	48563	0.0051 mg/kg	95
79) Isopropylben	13.14	105	339795	0.0050 mg/kg	100
81) cyclohexanone	13.25	55	57456	0.1051 mg/kg	99
83) Bromobenzene	13.56	156	99114	0.0049 mg/kg	96
84) 1122Tetrclta	13.55	83	92837	0.0055 mg/kg	100
85) 123Triclproa	13.61	75	88182	0.0047 mg/kg	93
86) 14dichloro2butene	13.63	53	22032	0.0050 mg/kg	95
87) n-Propylbenz	13.72	91	379296	0.0048 mg/kg	99
88) 2chlorotolue	13.84	91	238972	0.0049 mg/kg	97
89) 4chlorotolue	14.00	91	282392	0.0050 mg/kg	98
90) 135Trimebenz	13.98	105	271870	0.0050 mg/kg	98
91) tbutylbenzen	14.45	119	247227	0.0048 mg/kg	97
92) 124Trimetben	14.52	105	273528	0.0050 mg/kg	98
93) sbutylbenzen	14.77	105	351778	0.0049 mg/kg	99
94) 13Diclorbenz	14.92	146	182624	0.0049 mg/kg	97
95) pIsopropylto	14.98	119	290257	0.0049 mg/kg	99
96) 14dichlorobe	15.05	146	187396	0.0050 mg/kg	98
97) 12dichlorobe	15.60	146	177979	0.0050 mg/kg	98
98) nButylbenzen	15.58	91	247330	0.0048 mg/kg	100
99) 12dibromo3cl	16.70	157	18860	0.0054 mg/kg	98
100) 135Trichlorobenzene	17.01	180	133392	0.0049 mg/kg	99
101) 124Trichlobe	17.82	180	117855	0.0047 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS3.D Vial: 6
Acq On : 27 Apr 2017 12:48 Operator: RLD-AGK
Sample : 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 27 14:04:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:04:05 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

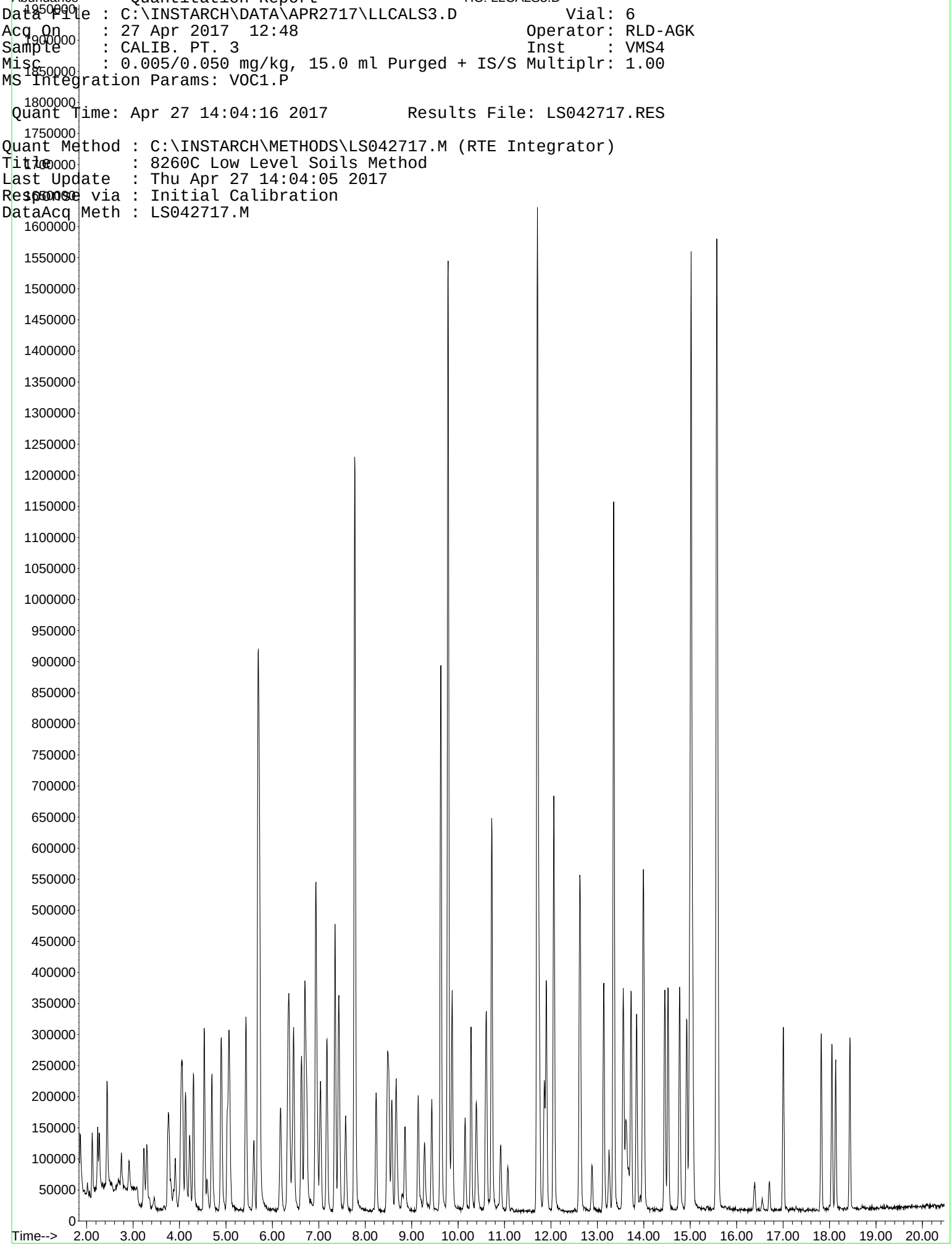
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	72489	0.0046	mg/kg	97
103) Naphthalene	18.13	128	231825	0.0051	mg/kg	100
104) 123Trichlben	18.44	180	116838	0.0052	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\APR2717\LLCALS3.D Vial: 6
Acq On : 27 Apr 2017 12:48 Operator: RLD-AGK
Sample : 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 27 14:04:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:04:05 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS4.D Vial: 7
Acq On : 27 Apr 2017 13:17 Operator: RLD-AGK
Sample : 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 27 17:00:40 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:42:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1354193	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1060677	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	578511	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	346047	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	75477	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.79	98	1336555	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	502476	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	165638	0.0106	mg/kg	100
3) Chloromethan	2.12	50	209709	0.0100	mg/kg	100
4) VinylChlorid	2.27	62	182505	0.0103	mg/kg	100
5) Bromomethane	2.75	94	81701	0.0092	mg/kg	100
6) Chloroethane	2.92	64	90063	0.0095	mg/kg	100
7) dichloroflmethane	3.23	67	253532	0.0100	mg/kg	100
8) Trichlorofma	3.29	101	216553	0.0099	mg/kg	100
9) Ethylether	3.75	59	120322	0.0098	mg/kg	100
10) dichlorotfluoroethan	3.77	67	159359	0.0102	mg/kg	100
11) propyleneoxide	3.82	58	62334	0.0944	mg/kg	100
12) Acrolein	3.90	56	161104	0.0485	mg/kg	100
13) 11dichlorthe	4.03	96	130771	0.0100	mg/kg	100
14) Trichlorotfluoroeth	4.06	101	260664	0.0203	mg/kg	100
15) Acetone	4.13	43	530868	0.0941	mg/kg	100
16) Iodomethane	4.22	142	341986	0.0182	mg/kg	100
17) Carbon Dislf	4.30	76	764542	0.0202	mg/kg	100
18) allylchloride	4.54	41	525594	0.0202	mg/kg	100
19) methylacetate	4.60	74	25324	0.0092	mg/kg	100
20) Methylchlorid	4.70	84	185204	0.0105	mg/kg	100
21) Acrylonitrile	5.02	53	266324	0.0491	mg/kg	100
22) t12dichlorte	5.06	96	149265	0.0100	mg/kg	100
23) tbutylalcohol	4.90	59	782128	0.4830	mg/kg	100
24) MtBE	5.08	73	333547	0.0096	mg/kg	100
25) Hexane	5.43	57	397205	0.0196	mg/kg	100
26) 11dichlorota	5.60	63	277562	0.0100	mg/kg	100
27) Vinylacetate	5.69	43	3116147	0.1060	mg/kg	100
28) chloroprene	5.72	53	525614	0.0205	mg/kg	100
29) Diisopether	5.72	45	580280	0.0100	mg/kg	100
30) ETBE	6.18	59	388490	0.0098	mg/kg	100
31) 22dichloropr	6.34	77	188182	0.0100	mg/kg	100
32) c12dichlorte	6.34	96	163968	0.0099	mg/kg	100
33) 2Butanone	6.36	72	141246	0.0982	mg/kg	100
34) propionitrile	6.43	54	217289	0.0996	mg/kg	100
35) Ethylacetate	6.46	88	26575	0.0520	mg/kg	100
36) methacrylonitrile	6.62	67	109287	0.0196	mg/kg	100
37) Bromochlorma	6.63	128	76305	0.0102	mg/kg	100
38) Tetrahydofur	6.70	42	504457	0.0965	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS4.D Vial: 7
Acq On : 27 Apr 2017 13:17 Operator: RLD-AGK
Sample : 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 27 17:00:40 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:42:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	258832	0.0098	mg/kg	100
40)	111trichlota	6.96	97	229132	0.0101	mg/kg	100
42)	Cyclohexane	7.04	56	271765	0.0101	mg/kg	100
43)	Carbtetraclo	7.18	119	186831	0.0100	mg/kg	100
44)	11dicloprope	7.17	110	73803	0.0103	mg/kg	100
46)	Benzene	7.43	78	573822	0.0099	mg/kg	100
47)	12dichlorota	7.44	62	192857	0.0097	mg/kg	100
48)	TAME	7.57	73	286292	0.0095	mg/kg	100
49)	trichloroete	8.23	95	150891	0.0099	mg/kg	100
50)	methylcyclohexane	8.48	83	234832	0.0101	mg/kg	100
51)	12dicloropra	8.51	63	167491	0.0097	mg/kg	100
52)	23dicl1propene	8.58	75	225767	0.0101	mg/kg	100
53)	Dibromometha	8.65	93	88886	0.0099	mg/kg	100
54)	methylmethacrylate	8.67	69	90152	0.0095	mg/kg	100
55)	14dioxane	8.69	88	75249	0.4838	mg/kg	100
56)	Bromodiclrma	8.86	83	193638	0.0101	mg/kg	100
57)	2Nitropropane	9.14	43	296703	0.0882	mg/kg	100
58)	c13dicloproe	9.43	75	228927	0.0098	mg/kg	100
59)	4Meth2Pentan	9.63	43	1524436	0.1030	mg/kg	100
61)	Toluene	9.87	92	352355	0.0099	mg/kg	100
62)	t13Dicloprop	10.15	75	191121	0.0099	mg/kg	100
63)	ethylmethacrylate	10.28	69	340007	0.0194	mg/kg	100
64)	112Triclotha	10.39	83	105056	0.0098	mg/kg	100
65)	Tetrachlorte	10.60	166	182578	0.0101	mg/kg	100
66)	13Diclorpropa	10.61	76	211779	0.0098	mg/kg	100
68)	2Hexanone	10.72	43	1075370	0.0995	mg/kg	100
69)	Clorodibrmta	10.92	129	144667	0.0095	mg/kg	100
70)	12Dibrometha	11.07	107	130728	0.0098	mg/kg	100
71)	Chlorobenzen	11.75	112	423000	0.0099	mg/kg	100
72)	1Clhexane	11.71	91	193439	0.0098	mg/kg	100
73)	1112Tetclota	11.86	131	150783	0.0099	mg/kg	100
74)	Ethylbenzene	11.90	91	685580	0.0100	mg/kg	100
75)	m p-Xylene	12.07	106	511248	0.0199	mg/kg	100
76)	o-Xylene	12.62	106	252719	0.0099	mg/kg	100
77)	Styrene	12.63	104	423365	0.0099	mg/kg	100
78)	Bromoform	12.88	173	97986	0.0093	mg/kg	100
79)	Isopropylben	13.14	105	686132	0.0101	mg/kg	100
81)	cyclohexanone	13.25	55	106070	0.1916	mg/kg	100
83)	Bromobenzene	13.56	156	197610	0.0099	mg/kg	100
84)	1122Tetrclta	13.55	83	174843	0.0100	mg/kg	100
85)	123Triclproa	13.61	75	189802	0.0099	mg/kg	100
86)	14dichloro2butene	13.64	53	42913	0.0094	mg/kg	100
87)	n-Propylbenz	13.72	91	782844	0.0102	mg/kg	100
88)	2chlorotolue	13.84	91	475291	0.0100	mg/kg	100
89)	4chlorotolue	14.00	91	540839	0.0100	mg/kg	100
90)	135Trimebenz	13.98	105	546017	0.0101	mg/kg	100
91)	tbutylbenzen	14.45	119	514209	0.0102	mg/kg	100
92)	124Trimetben	14.53	105	555049	0.0102	mg/kg	100
93)	sbutylbenzen	14.77	105	740777	0.0104	mg/kg	100
94)	13Diclorbenz	14.92	146	367679	0.0101	mg/kg	100
95)	pIsopropylto	14.99	119	605543	0.0102	mg/kg	100
96)	14dichlorobe	15.05	146	353895	0.0097	mg/kg	100
97)	12dichlorobe	15.60	146	342620	0.0099	mg/kg	100
98)	nButylbenzen	15.58	91	504280	0.0101	mg/kg	100
99)	12dibromo3cl	16.70	157	34945	0.0092	mg/kg	100
100)	135Trichlorobenzene	17.01	180	259185	0.0099	mg/kg	100
101)	124Trichlobe	17.82	180	235185	0.0098	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS4.D Vial: 7
Acq On : 27 Apr 2017 13:17 Operator: RLD-AGK
Sample : 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 27 17:00:40 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:42:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	149866	0.0098 mg/kg	100
103) Naphthalene	18.13	128	450225	0.0097 mg/kg	100
104) 123Trichlben	18.44	180	219746	0.0097 mg/kg	100

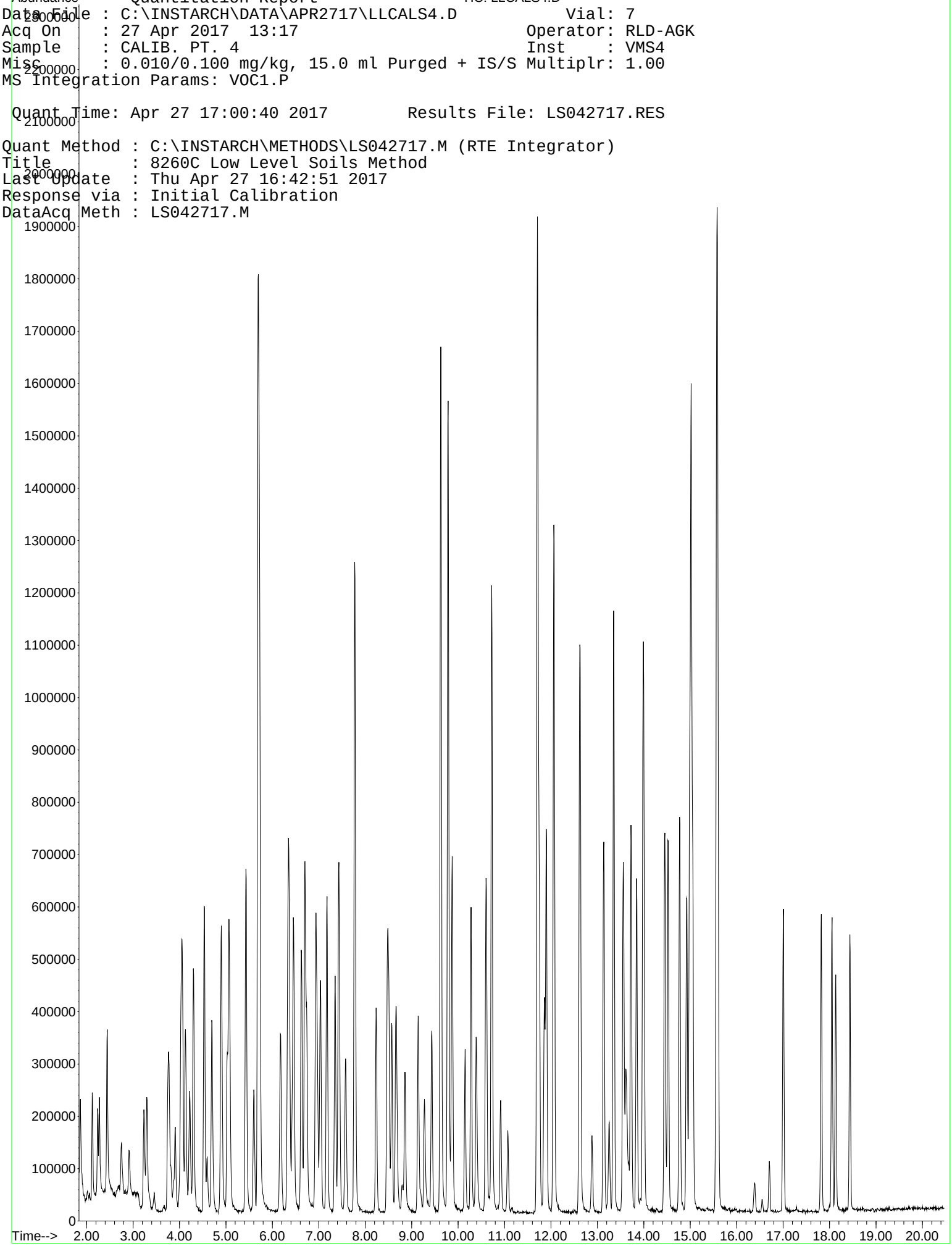
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALS4.D

Data File : C:\INSTARCH\DATA\APR2717\LLCALS4.D Vial: 7
Acq On : 27 Apr 2017 13:17 Operator: RLD-AGK
Sample : 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 27 17:00:40 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:42:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS5.D Vial: 8
Acq On : 27 Apr 2017 13:46 Operator: RLD-AGK
Sample : 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 27 14:07:24 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:04:46 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1380035	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1081628	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	594889	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	356394	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	78661	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1359286	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	513852	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	319497	0.0151	mg/kg	100
3) Chloromethan	2.13	50	423888	0.0171	mg/kg	99
4) VinylChlorid	2.27	62	360852	0.0193	mg/kg	98
5) Bromomethane	2.75	94	173527	0.0176	mg/kg	98
6) Chloroethane	2.92	64	189915	0.0186	mg/kg	100
7) dichloroflmethane	3.23	67	509838	0.0191	mg/kg	98
8) Trichlorofma	3.30	101	467784	0.0207	mg/kg	99
9) Ethylether	3.75	59	252550	0.0201	mg/kg	99
10) dichlorotfluoroethan	3.78	67	325488	0.0197	mg/kg	97
11) propyleneoxide	3.82	58	132288	0.2175	mg/kg	96
12) Acrolein	3.90	56	340449	0.0993	mg/kg	94
13) 11dichlorthe	4.03	96	266492	0.0194	mg/kg	94
14) Trichlorotfluoroeth	4.06	101	530053	0.0395	mg/kg	98
15) Acetone	4.13	43	1090339	0.1638	mg/kg	99
16) Iodomethane	4.22	142	717464	0.0355	mg/kg	100
17) Carbon Dislf	4.30	76	1580724	0.0398	mg/kg	100
18) allylchloride	4.53	41	1045959	0.0378	mg/kg	98
19) methylacetate	4.59	74	55405	0.0202	mg/kg	94
20) Methylchlorid	4.69	84	338051	0.0109	mg/kg	99
21) Acrylonitrile	5.02	53	566946	0.1023	mg/kg	99
22) t12dichlorte	5.06	96	298198	0.0189	mg/kg	97
23) tbutylalcohol	4.90	59	1708822	1.0329	mg/kg	100
24) MtBE	5.08	73	722069	0.0206	mg/kg	99
25) Hexane	5.43	57	836483	0.0384	mg/kg	99
26) 11dichlorota	5.60	63	580610	0.0201	mg/kg	99
27) Vinylacetate	5.69	43	6329311	0.2062	mg/kg	98
28) chloroprene	5.72	53	1084865	0.0404	mg/kg	99
29) Diisopether	5.72	45	1200022	0.0196	mg/kg	96
30) ETBE	6.18	59	830645	0.0212	mg/kg	99
31) 22dichloropr	6.33	77	387865	0.0202	mg/kg	100
32) c12dichlorte	6.34	96	335495	0.0193	mg/kg	100
33) 2Butanone	6.36	72	303839	0.2108	mg/kg	100
34) propionitrile	6.43	54	460611	0.2070	mg/kg	99
35) Ethylacetate	6.46	88	54173	0.1076	mg/kg#	85
36) methacrylonitrile	6.62	67	229752	0.0398	mg/kg	97
37) Bromochlorma	6.64	128	154956	0.0202	mg/kg	99
38) Tetrahydofur	6.70	42	1067557	0.1918	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS5.D Vial: 8
Acq On : 27 Apr 2017 13:46 Operator: RLD-AGK
Sample : 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 27 14:07:24 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:04:46 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.74	83	531915	0.0193	mg/kg	99
40) 111trichlota	6.96	97	480322	0.0205	mg/kg	97
42) Cyclohexane	7.04	56	559323	0.0199	mg/kg	98
43) Carbtetraclo	7.18	119	397371	0.0213	mg/kg	99
44) 11dicloprope	7.17	110	152485	0.0210	mg/kg	99
46) Benzene	7.43	78	1191712	0.0195	mg/kg	99
47) 12dichlorota	7.44	62	408109	0.0197	mg/kg	99
48) TAME	7.58	73	622549	0.0212	mg/kg	99
49) trichloroete	8.24	95	317656	0.0203	mg/kg	100
50) methylcyclohexane	8.48	83	493069	0.0206	mg/kg	99
51) 12dicloropra	8.51	63	345568	0.0193	mg/kg	98
52) 23dicl1propene	8.57	75	467961	0.0208	mg/kg	99
53) Dibromometha	8.65	93	187158	0.0205	mg/kg	98
54) methylmethacrylate	8.67	69	199484	0.0212	mg/kg	98
55) 14dioxane	8.69	88	163118	1.0190	mg/kg	98
56) Bromodiclrma	8.86	83	395019	0.0202	mg/kg	95
57) 2Nitropropane	9.14	43	721602	0.2561	mg/kg	97
58) c13dicloproe	9.43	75	482734	0.0202	mg/kg	100
59) 4Meth2Pentan	9.63	43	3164385	0.1984	mg/kg	98
61) Toluene	9.87	92	729625	0.0197	mg/kg	97
62) t13Dicloprop	10.15	75	400627	0.0210	mg/kg	97
63) ethylmethacrylate	10.28	69	729274	0.0410	mg/kg	99
64) 112Triclotha	10.39	83	219615	0.0200	mg/kg	98
65) Tetrachlorte	10.60	166	374869	0.0201	mg/kg	98
66) 13Diclorpropa	10.61	76	438357	0.0196	mg/kg	99
68) 2Hexanone	10.72	43	2286098	0.2037	mg/kg	98
69) Clorodibrmta	10.92	129	316731	0.0219	mg/kg	99
70) 12Dibrometha	11.07	107	279362	0.0212	mg/kg	98
71) Chlorobenzen	11.75	112	854753	0.0191	mg/kg	99
72) 1Clhexane	11.71	91	397077	0.0193	mg/kg	97
73) 1112Tetclota	11.85	131	314764	0.0210	mg/kg	98
74) Ethylbenzene	11.90	91	1416882	0.0200	mg/kg	99
75) m p-Xylene	12.06	106	1024835	0.0383	mg/kg	100
76) o-Xylene	12.62	106	527354	0.0203	mg/kg	96
77) Styrene	12.63	104	880415	0.0203	mg/kg	100
78) Bromoform	12.88	173	212420	0.0215	mg/kg	100
79) Isopropylben	13.14	105	1397756	0.0199	mg/kg	98
81) cyclohexanone	13.25	55	225331	0.3948	mg/kg	99
83) Bromobenzene	13.56	156	414780	0.0200	mg/kg	99
84) 1122Tetrclta	13.55	83	361531	0.0203	mg/kg	98
85) 123Triclproa	13.61	75	402225	0.0210	mg/kg	100
86) 14dichloro2butene	13.64	53	94598	0.0210	mg/kg	99
87) n-Propylbenz	13.72	91	1595861	0.0197	mg/kg	99
88) 2chlorotolue	13.84	91	981122	0.0195	mg/kg	98
89) 4chlorotolue	14.00	91	1104746	0.0191	mg/kg	100
90) 135Trimebenz	13.98	105	1131860	0.0202	mg/kg	100
91) tbutylbenzen	14.45	119	1038098	0.0198	mg/kg	97
92) 124Trimetben	14.52	105	1139501	0.0201	mg/kg	98
93) sbutylbenzen	14.77	105	1501657	0.0203	mg/kg	99
94) 13Diclorbenz	14.93	146	742928	0.0193	mg/kg	98
95) pIsopropylto	14.98	119	1250154	0.0205	mg/kg	99
96) 14dichlorobe	15.05	146	725620	0.0189	mg/kg	99
97) 12dichlorobe	15.60	146	702596	0.0193	mg/kg	99
98) nButylbenzen	15.58	91	1031527	0.0196	mg/kg	99
99) 12dibromo3cl	16.70	157	80346	0.0218	mg/kg	99
100) 135Trichlorobenzene	17.01	180	536371	0.0193	mg/kg	99
101) 124Trichlobe	17.82	180	496225	0.0196	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS5.D Vial: 8
Acq On : 27 Apr 2017 13:46 Operator: RLD-AGK
Sample : 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 27 14:07:24 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:04:46 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	322004	0.0204 mg/kg	99
103) Naphthalene	18.13	128	970280	0.0206 mg/kg	100
104) 123Trichlben	18.44	180	463325	0.0197 mg/kg	99

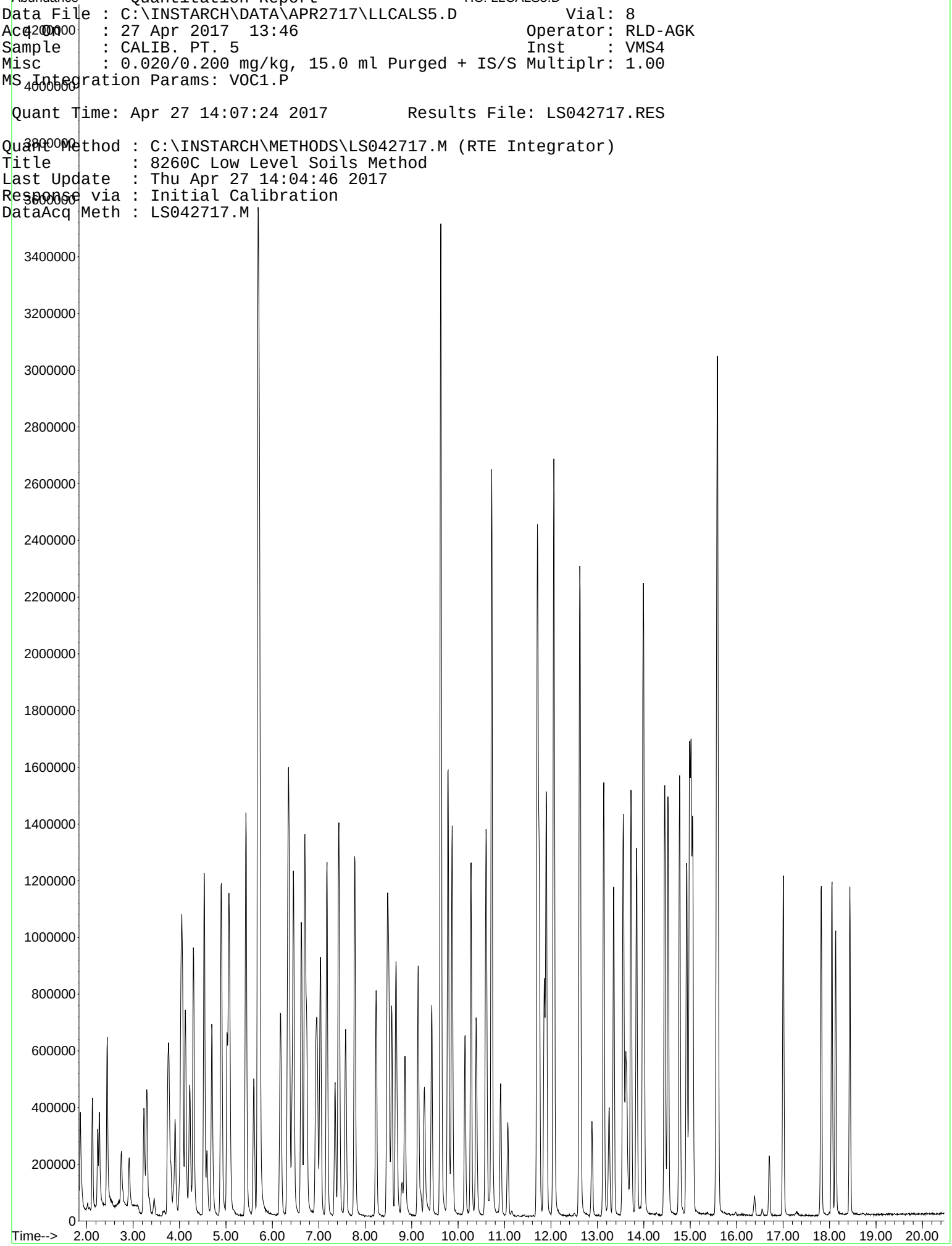
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALS5.D

Data File : C:\INSTARCH\DATA\APR2717\LLCALS5.D Vial: 8
Acq On : 27 Apr 2017 13:46 Operator: RLD-AGK
Sample : 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 27 14:07:24 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:04:46 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS6.D Vial: 9
Acq On : 27 Apr 2017 14:15 Operator: RLD-AGK
Sample : 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 27 14:36:05 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:09:07 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.78	96	1412002	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1068145	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	587188	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	346912	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 95 %			
45) SURR12DCAd4	7.35	102	79618	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1356918	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 95 %			
82) SURR4BrFBenz	13.35	95	519977	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	444124	0.0252	mg/kg	98
3) Chloromethan	2.12	50	614372	0.0250	mg/kg	98
4) VinylChlorid	2.27	62	527553	0.0278	mg/kg	99
5) Bromomethane	2.75	94	265987	0.0270	mg/kg	98
6) Chloroethane	2.91	64	271730	0.0263	mg/kg	97
7) dichloroflmethane	3.23	67	750642	0.0277	mg/kg	98
8) Trichlorofma	3.29	101	640113	0.0275	mg/kg	99
9) Ethylether	3.75	59	380166	0.0296	mg/kg	98
10) dichlorotfluoroethan	3.77	67	462887	0.0275	mg/kg	98
11) propyleneoxide	3.81	58	240429	0.3796	mg/kg	99
12) Acrolein	3.90	56	504287	0.1440	mg/kg	94
13) 11dichlorthe	4.03	96	388075	0.0278	mg/kg	96
14) Trichlorotfluoroeth	4.06	101	753275	0.0550	mg/kg	99
15) Acetone	4.12	43	1571031	0.2393	mg/kg	100
16) Iodomethane	4.22	142	1096061	0.0543	mg/kg	99
17) Carbon Dislf	4.30	76	2280481	0.0562	mg/kg	100
18) allylchloride	4.54	41	1561350	0.0557	mg/kg	99
19) methylacetate	4.60	74	85287	0.0303	mg/kg	95
20) Methylchlorid	4.70	84	474698	0.0165	mg/kg	99
21) Acrylonitrile	5.02	53	843390	0.1481	mg/kg	99
22) t12dichlorte	5.06	96	434854	0.0272	mg/kg	96
23) tbutylalcohol	4.89	59	2527719	1.4835	mg/kg	100
24) MtBE	5.08	73	1078930	0.0298	mg/kg	100
25) Hexane	5.43	57	1148320	0.0519	mg/kg	99
26) 11dichlorota	5.60	63	836499	0.0283	mg/kg	99
27) Vinylacetate	5.69	43	8795351	0.2783	mg/kg	96
28) chloroprene	5.72	53	1548097	0.0563	mg/kg	100
29) Diisopether	5.72	45	1767863	0.0284	mg/kg#	87
30) ETBE	6.18	59	1253936	0.0309	mg/kg	99
31) 22dichloropr	6.33	77	571467	0.0291	mg/kg	99
32) c12dichlorte	6.34	96	501640	0.0285	mg/kg	99
33) 2Butanone	6.36	72	453494	0.3042	mg/kg	99
34) propionitrile	6.42	54	679839	0.2966	mg/kg	97
35) Ethylacetate	6.46	88	83398	0.1595	mg/kg#	90
36) methacrylonitrile	6.62	67	337205	0.0572	mg/kg	95
37) Bromochlorma	6.63	128	228106	0.0290	mg/kg	99
38) Tetrahydofur	6.70	42	1571087	0.2782	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS6.D Vial: 9
Acq On : 27 Apr 2017 14:15 Operator: RLD-AGK
Sample : 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 27 14:36:05 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:09:07 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	792004	0.0283	mg/kg	100
40)	111trichlota	6.96	97	683388	0.0284	mg/kg	99
42)	Cyclohexane	7.04	56	801872	0.0279	mg/kg	100
43)	Carbtetraclo	7.18	119	577973	0.0299	mg/kg	100
44)	11dicloprope	7.17	110	221267	0.0295	mg/kg	97
46)	Benzene	7.43	78	1744664	0.0280	mg/kg	99
47)	12dichlorota	7.44	62	606254	0.0287	mg/kg	100
48)	TAME	7.58	73	969717	0.0319	mg/kg	99
49)	trichloroete	8.23	95	464727	0.0289	mg/kg	99
50)	methylcyclohexane	8.48	83	682997	0.0277	mg/kg	98
51)	12dicloropra	8.51	63	520396	0.0286	mg/kg	100
52)	23dicl1propene	8.57	75	709609	0.0306	mg/kg	99
53)	Dibromometha	8.65	93	271935	0.0290	mg/kg	95
54)	methylmethacrylate	8.67	69	300321	0.0309	mg/kg	98
55)	14dioxane	8.69	88	235052	1.4297	mg/kg	98
56)	Bromodiclrma	8.86	83	594463	0.0297	mg/kg	96
57)	2Nitropropane	9.14	43	1134090	0.3725	mg/kg	96
58)	c13dicloproe	9.43	75	727211	0.0297	mg/kg	99
59)	4Meth2Pentan	9.63	43	4525845	0.2778	mg/kg	97
61)	Toluene	9.87	92	1081984	0.0287	mg/kg	95
62)	t13Dicloprop	10.15	75	609832	0.0309	mg/kg	97
63)	ethylmethacrylate	10.28	69	1094073	0.0598	mg/kg	100
64)	112Triclotha	10.39	83	333832	0.0297	mg/kg	99
65)	Tetrachlorte	10.60	166	534144	0.0279	mg/kg	99
66)	13Diclorpropa	10.61	76	660833	0.0290	mg/kg	99
68)	2Hexanone	10.72	43	3325962	0.2990	mg/kg	98
69)	Clorodibrmta	10.92	129	483705	0.0332	mg/kg	100
70)	12Dibrometha	11.07	107	418784	0.0318	mg/kg	98
71)	Chlorobenzen	11.75	112	1260183	0.0288	mg/kg	99
72)	1Clhexane	11.71	91	570684	0.0283	mg/kg	96
73)	1112Tetclota	11.85	131	474485	0.0318	mg/kg	98
74)	Ethylbenzene	11.90	91	2051717	0.0293	mg/kg	99
75)	m p-Xylene	12.06	106	1516123	0.0578	mg/kg	96
76)	o-Xylene	12.61	106	767905	0.0298	mg/kg	99
77)	Styrene	12.63	104	1317680	0.0307	mg/kg	99
78)	Bromoform	12.88	173	335501	0.0339	mg/kg	98
79)	Isopropylben	13.14	105	2051955	0.0296	mg/kg	99
81)	cyclohexanone	13.25	55	334598	0.5955	mg/kg	99
83)	Bromobenzene	13.56	156	605558	0.0296	mg/kg	99
84)	1122Tetrclta	13.55	83	537372	0.0304	mg/kg	99
85)	123Triclproa	13.61	75	594783	0.0311	mg/kg	99
86)	14dichloro2butene	13.63	53	140225	0.0312	mg/kg	95
87)	n-Propylbenz	13.72	91	2292262	0.0287	mg/kg	98
88)	2chlorotolue	13.84	91	1413750	0.0286	mg/kg	96
89)	4chlorotolue	14.00	91	1606828	0.0284	mg/kg	99
90)	135Trimebenz	13.98	105	1650992	0.0298	mg/kg	99
91)	tbutylbenzen	14.45	119	1528427	0.0296	mg/kg	98
92)	124Trimetben	14.52	105	1661676	0.0297	mg/kg	99
93)	sbutylbenzen	14.77	105	2172684	0.0297	mg/kg	99
94)	13Diclorbenz	14.93	146	1071895	0.0284	mg/kg	98
95)	pIsopropylto	14.99	119	1794972	0.0296	mg/kg	99
96)	14dichlorobe	15.05	146	1081707	0.0288	mg/kg	97
97)	12dichlorobe	15.60	146	1032399	0.0289	mg/kg	99
98)	nButylbenzen	15.58	91	1481079	0.0286	mg/kg	98
99)	12dibromo3cl	16.70	157	119193	0.0322	mg/kg	98
100)	135Trichlorobenzene	17.01	180	760843	0.0280	mg/kg	99
101)	124Trichlobe	17.82	180	705364	0.0283	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS6.D Vial: 9
Acq On : 27 Apr 2017 14:15 Operator: RLD-AGK
Sample : 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 27 14:36:05 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:09:07 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	455587	0.0291	mg/kg	98
103) Naphthalene	18.13	128	1421597	0.0303	mg/kg	99
104) 123Trichlben	18.44	180	680205	0.0294	mg/kg	99

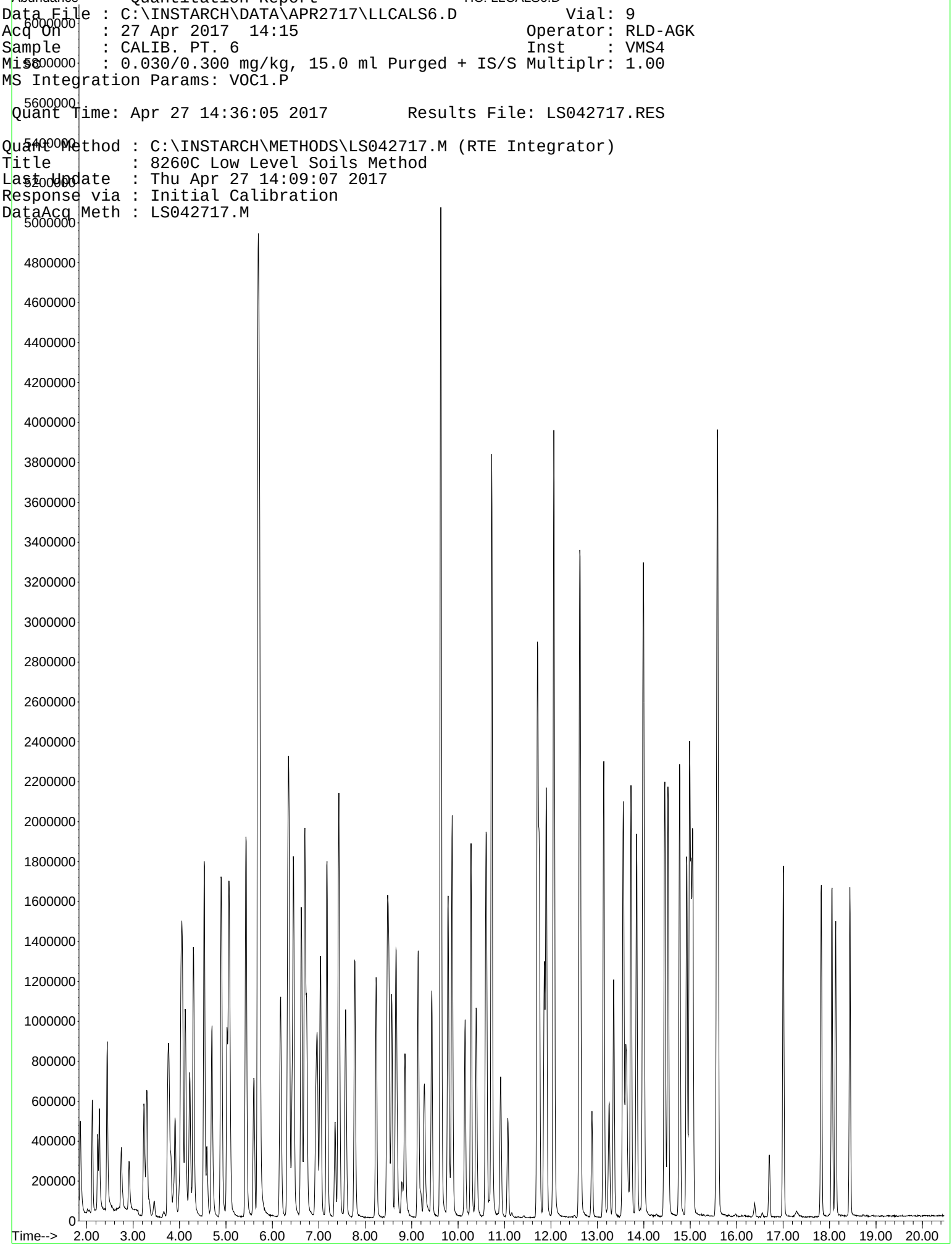
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALS6.D

Data File : C:\INSTARCH\DATA\APR2717\LLCALS6.D Vial: 9
Acq On : 27 Apr 2017 14:15 Operator: RLD-AGK
Sample : 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 27 14:36:05 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 14:09:07 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS7.D Vial: 10
Acq On : 27 Apr 2017 14:44 Operator: RLD-AGK
Sample : 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 27 15:27:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 15:27:35 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.78	96	1391611	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1062435	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	588386	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	356884	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	78701	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1354566	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	508204	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	604945	0.0358	mg/kg	98
3) Chloromethan	2.13	50	802829	0.0341	mg/kg	98
4) VinylChlorid	2.27	62	703397	0.0381	mg/kg	99
5) Bromomethane	2.75	94	370305	0.0388	mg/kg	96
6) Chloroethane	2.91	64	372806	0.0374	mg/kg	99
7) dichloroflmethane	3.23	67	1011328	0.0384	mg/kg	99
8) Trichlorofma	3.30	101	889352	0.0393	mg/kg	100
9) Ethylether	3.75	59	510376	0.0404	mg/kg	97
10) dichlorotfluoroethan	3.77	67	617252	0.0377	mg/kg	98
11) propyleneoxide	3.82	58	352406	0.5407	mg/kg	97
12) Acrolein	3.90	56	690690	0.2015	mg/kg	90
13) 11dichlorthe	4.03	96	516577	0.0380	mg/kg	95
14) Trichlorotfluoroeth	4.06	101	1027404	0.0772	mg/kg	98
15) Acetone	4.12	43	2107633	0.3371	mg/kg	99
16) Iodomethane	4.22	142	1464680	0.0748	mg/kg	99
17) Carbon Dislf	4.30	76	3040979	0.0768	mg/kg	99
18) allylchloride	4.53	41	2080574	0.0763	mg/kg	99
19) methylacetate	4.59	74	115481	0.0416	mg/kg	92
20) Methylchlorid	4.69	84	626636	0.0238	mg/kg	99
21) Acrylonitrile	5.02	53	1127877	0.2013	mg/kg	99
22) t12dichlorte	5.06	96	584338	0.0377	mg/kg	98
23) tbutylalcohol	4.90	59	3415091	2.0374	mg/kg	100
24) MtBE	5.08	73	1461376	0.0411	mg/kg	98
25) Hexane	5.43	57	1568859	0.0736	mg/kg	99
26) 11dichlorota	5.60	63	1103074	0.0382	mg/kg	99
27) Vinylacetate	5.69	43	10752593	0.3494	mg/kg	94
28) chloroprene	5.72	53	2050782	0.0764	mg/kg	99
29) Diisopether	5.72	45	2338614	0.0384	mg/kg#	74
30) ETBE	6.17	59	1718768	0.0428	mg/kg	99
31) 22dichloropr	6.34	77	771685	0.0400	mg/kg	100
32) c12dichlorte	6.34	96	668743	0.0388	mg/kg	99
33) 2Butanone	6.36	72	611118	0.4150	mg/kg	99
34) propionitrile	6.43	54	908539	0.4029	mg/kg	98
35) Ethylacetate	6.45	88	111030	0.2132	mg/kg#	88
36) methacrylonitrile	6.62	67	461242	0.0800	mg/kg	97
37) Bromochlorma	6.63	128	306812	0.0397	mg/kg	98
38) Tetrahydofur	6.70	42	2070788	0.3766	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS7.D Vial: 10
Acq On : 27 Apr 2017 14:44 Operator: RLD-AGK
Sample : 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 27 15:27:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 15:27:35 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	1051485	0.0385	mg/kg	99
40)	111trichlota	6.96	97	917611	0.0390	mg/kg	98
42)	Cyclohexane	7.04	56	1094361	0.0391	mg/kg	99
43)	Carbtetraclo	7.18	119	779600	0.0410	mg/kg	99
44)	11dicloprope	7.18	110	296404	0.0402	mg/kg	99
46)	Benzene	7.43	78	2321604	0.0383	mg/kg	100
47)	12dichlorota	7.44	62	811012	0.0392	mg/kg	100
48)	TAME	7.58	73	1341260	0.0443	mg/kg	99
49)	trichloroete	8.23	95	620523	0.0394	mg/kg	100
50)	methylcyclohexane	8.48	83	956130	0.0398	mg/kg	99
51)	12dicloropra	8.51	63	698393	0.0392	mg/kg	97
52)	23dicl1propene	8.57	75	944375	0.0412	mg/kg	100
53)	Dibromometha	8.65	93	366031	0.0398	mg/kg	95
54)	methylmethacrylate	8.67	69	399071	0.0414	mg/kg	96
55)	14dioxane	8.69	88	322700	2.0073	mg/kg	99
56)	Bromodiclrma	8.86	83	799356	0.0405	mg/kg	95
57)	2Nitropropane	9.14	43	1582118	0.5068	mg/kg	95
58)	c13dicloproe	9.43	75	973508	0.0404	mg/kg	98
59)	4Meth2Pentan	9.63	43	5870992	0.3702	mg/kg	95
61)	Toluene	9.87	92	1425925	0.0386	mg/kg	95
62)	t13Dicloprop	10.15	75	831322	0.0425	mg/kg	98
63)	ethylmethacrylate	10.28	69	1467578	0.0814	mg/kg	99
64)	112Triclotha	10.39	83	451921	0.0409	mg/kg	97
65)	Tetrachlorte	10.60	166	730772	0.0392	mg/kg	99
66)	13Diclorpropa	10.61	76	873237	0.0391	mg/kg	99
68)	2Hexanone	10.72	43	4338465	0.3923	mg/kg	96
69)	Clorodibrmta	10.92	129	648386	0.0440	mg/kg	100
70)	12Dibrometha	11.07	107	567476	0.0429	mg/kg	98
71)	Chlorobenzen	11.75	112	1662146	0.0385	mg/kg	100
72)	1Clhexane	11.71	91	774268	0.0390	mg/kg	96
73)	1112Tetclota	11.86	131	648566	0.0433	mg/kg	98
74)	Ethylbenzene	11.90	91	2711192	0.0391	mg/kg	100
75)	m p-Xylene	12.06	106	2018896	0.0779	mg/kg	95
76)	o-Xylene	12.62	106	1030235	0.0402	mg/kg	96
77)	Styrene	12.63	104	1761987	0.0411	mg/kg	99
78)	Bromoform	12.88	173	464197	0.0461	mg/kg	98
79)	Isopropylben	13.14	105	2715638	0.0395	mg/kg	99
81)	cyclohexanone	13.25	55	458560	0.8155	mg/kg	98
83)	Bromobenzene	13.56	156	812701	0.0398	mg/kg	99
84)	1122Tetrclta	13.55	83	719347	0.0406	mg/kg	98
85)	123Triclproa	13.61	75	814652	0.0423	mg/kg	99
86)	14dichloro2butene	13.64	53	199280	0.0439	mg/kg	98
87)	n-Propylbenz	13.72	91	3075640	0.0387	mg/kg	98
88)	2chlorotolue	13.84	91	1893349	0.0385	mg/kg	96
89)	4chlorotolue	14.00	91	2146308	0.0382	mg/kg	99
90)	135Trimebenz	13.98	105	2205284	0.0398	mg/kg	100
91)	tbutylbenzen	14.45	119	2036702	0.0395	mg/kg	98
92)	124Trimetben	14.52	105	2189902	0.0391	mg/kg	97
93)	sbutylbenzen	14.77	105	2908493	0.0397	mg/kg	99
94)	13Diclorbenz	14.93	146	1450958	0.0387	mg/kg	99
95)	pIsopropylto	14.99	119	2416126	0.0399	mg/kg	100
96)	14dichlorobe	15.05	146	1449214	0.0388	mg/kg	98
97)	12dichlorobe	15.60	146	1375997	0.0387	mg/kg	99
98)	nButylbenzen	15.58	91	1983391	0.0385	mg/kg	98
99)	12dibromo3cl	16.70	157	166351	0.0443	mg/kg	97
100)	135Trichlorobenzene	17.01	180	1038274	0.0385	mg/kg	100
101)	124Trichlobe	17.82	180	950130	0.0384	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS7.D Vial: 10
Acq On : 27 Apr 2017 14:44 Operator: RLD-AGK
Sample : 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 27 15:27:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 15:27:35 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	18.05	225	622666	0.0399	mg/kg	99
103)	Naphthalene	18.13	128	1938704	0.0412	mg/kg	99
104)	123Trichlben	18.44	180	924351	0.0400	mg/kg	99

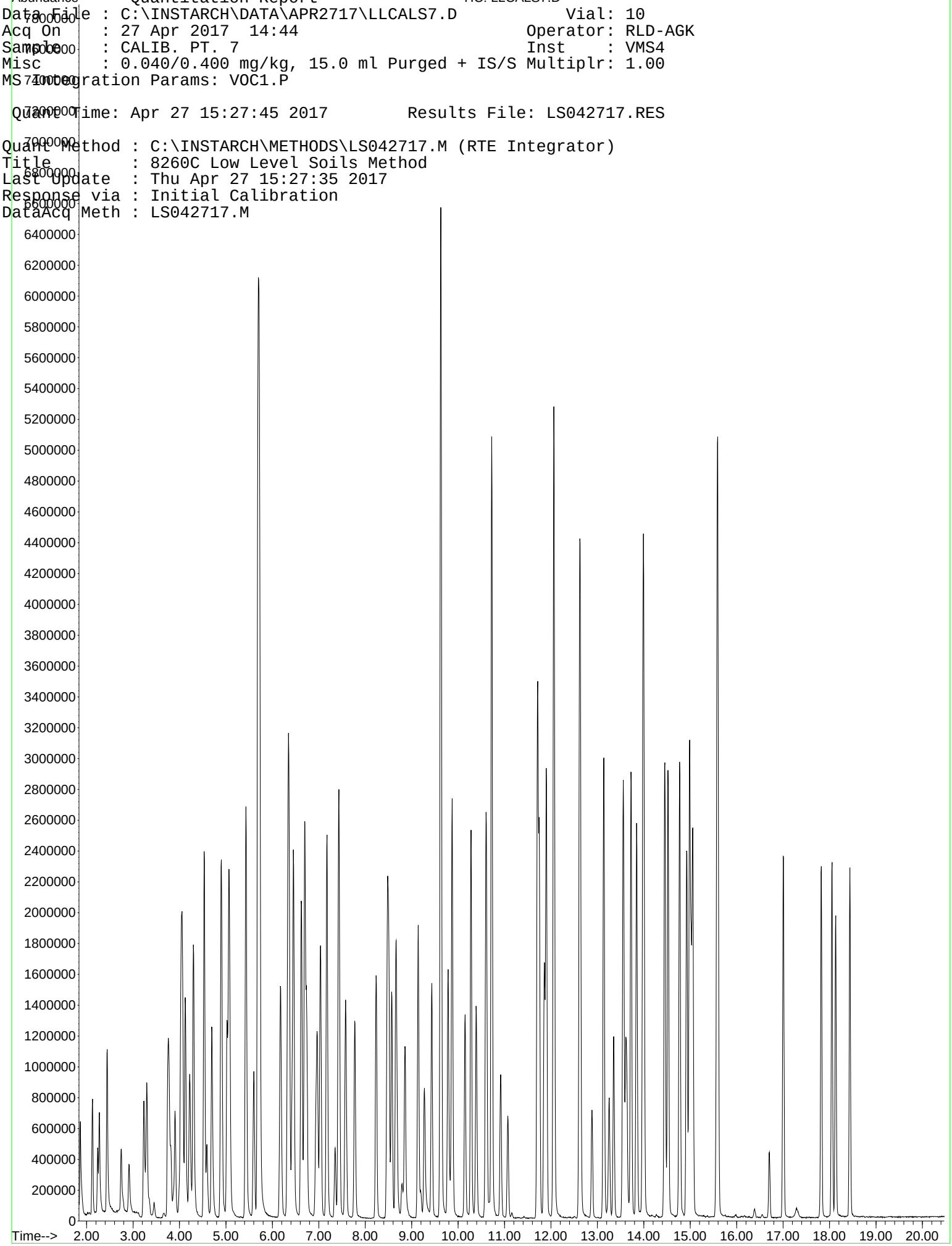
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS7.D Vial: 10
Acq On : 27 Apr 2017 14:44 Operator: RLD-AGK
Sample : 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 27 15:27:45 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 15:27:35 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS8.D Vial: 11
Acq On : 27 Apr 2017 15:13 Operator: RLD-AGK
Sample : 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 27 16:26:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 15:27:54 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.78	96	1428443	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1070982	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	599083	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	364285	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	80576	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1377149	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	520965	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	1208317	0.0707	mg/kg	99
3) Chloromethan	2.13	50	1628308	0.0688	mg/kg	97
4) VinylChlorid	2.27	62	1405907	0.0747	mg/kg	98
5) Bromomethane	2.74	94	763898	0.0782	mg/kg	97
6) Chloroethane	2.91	64	739992	0.0730	mg/kg	98
7) dichloroflmethane	3.23	67	2025589	0.0754	mg/kg	93
8) Trichlorofma	3.30	101	1778765	0.0768	mg/kg	96
9) Ethylether	3.75	59	1039315	0.0800	mg/kg	95
10) dichlorotfluoroethan	3.77	67	1242910	0.0746	mg/kg	98
11) propyleneoxide	3.81	58	819581	1.1664	mg/kg	98
12) Acrolein	3.90	56	1350911	0.3835	mg/kg	89
13) 11dichlorthe	4.03	96	1050736	0.0759	mg/kg	98
14) Trichlorotfluoroeth	4.06	101	2079935	0.1530	mg/kg	98
15) Acetone	4.12	43	4017012	0.6403	mg/kg	97
16) Iodomethane	4.22	142	3001952	0.1507	mg/kg	98
17) Carbon Dislf	4.30	76	5927724	0.1467	mg/kg	98
18) allylchloride	4.53	41	3925520	0.1411	mg/kg	98
19) methylacetate	4.59	74	242523	0.0845	mg/kg	96
20) Methylchlorid	4.69	84	1237705	0.0487	mg/kg	98
21) Acrylonitrile	5.02	53	2199789	0.3822	mg/kg	99
22) t12dichlorte	5.06	96	1189119	0.0753	mg/kg	98
23) tbutylalcohol	4.90	59	6351884	3.6819	mg/kg	99
24) MtBE	5.08	73	2908064	0.0793	mg/kg	100
25) Hexane	5.43	57	3093520	0.1431	mg/kg	97
26) 11dichlorota	5.60	63	2221832	0.0755	mg/kg	98
27) Vinylacetate	5.69	43	15621407	0.5037	mg/kg	85
28) chloroprene	5.72	53	3893597	0.1422	mg/kg	98
29) Diisopether	5.72	45	4436232	0.0714	mg/kg#	38
30) ETBE	6.18	59	3427564	0.0823	mg/kg	98
31) 22dichloropr	6.34	77	1581074	0.0799	mg/kg	99
32) c12dichlorte	6.34	96	1330811	0.0756	mg/kg	100
33) 2Butanone	6.36	72	1194969	0.7863	mg/kg	100
34) propionitrile	6.43	54	1748665	0.7547	mg/kg	98
35) Ethylacetate	6.45	88	214646	0.3977	mg/kg#	86
36) methacrylonitrile	6.62	67	905152	0.1529	mg/kg	96
37) Bromochlorma	6.64	128	596347	0.0753	mg/kg	99
38) Tetrahydofur	6.70	42	3955900	0.7068	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS8.D Vial: 11
Acq On : 27 Apr 2017 15:13 Operator: RLD-AGK
Sample : 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 27 16:26:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 15:27:54 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.74	83	2128944	0.0763 mg/kg	98
40) 111trichlota	6.96	97	1876572	0.0781 mg/kg	99
42) Cyclohexane	7.04	56	2189101	0.0765 mg/kg	99
43) Carbtetraclo	7.18	119	1629914	0.0831 mg/kg	100
44) 11dicloprope	7.17	110	604463	0.0799 mg/kg	98
46) Benzene	7.43	78	4555412	0.0736 mg/kg	99
47) 12dichlorota	7.44	62	1618166	0.0765 mg/kg	99
48) TAME	7.58	73	2741494	0.0869 mg/kg	99
49) trichloroete	8.24	95	1264534	0.0784 mg/kg	99
50) methylcyclohexane	8.48	83	1887209	0.0766 mg/kg	98
51) 12dicloropra	8.51	63	1400677	0.0769 mg/kg	100
52) 23dicl1propene	8.57	75	1914883	0.0810 mg/kg	98
53) Dibromometha	8.65	93	755385	0.0800 mg/kg	97
54) methylmethacrylate	8.67	69	822792	0.0828 mg/kg	98
55) 14dioxane	8.69	88	626754	3.7961 mg/kg	99
56) Bromodiclrma	8.86	83	1642085	0.0810 mg/kg	94
57) 2Nitropropane	9.14	43	3207371	0.9642 mg/kg	96
58) c13dicloproe	9.43	75	1955718	0.0789 mg/kg	97
59) 4Meth2Pentan	9.63	43	9735545	0.6045 mg/kg	87
61) Toluene	9.87	92	2837147	0.0752 mg/kg	92
62) t13Dicloprop	10.15	75	1654009	0.0817 mg/kg	97
63) ethylmethacrylate	10.28	69	2893685	0.1560 mg/kg	98
64) 112Triclotha	10.39	83	896094	0.0787 mg/kg	99
65) Tetrachlorte	10.60	166	1486052	0.0779 mg/kg	99
66) 13Diclorpropa	10.61	76	1732803	0.0759 mg/kg	100
68) 2Hexanone	10.72	43	7555120	0.6796 mg/kg	91
69) Clorodibrmta	10.92	129	1357923	0.0901 mg/kg	100
70) 12Dibrometha	11.07	107	1116835	0.0829 mg/kg	100
71) Chlorobenzen	11.75	112	3268756	0.0755 mg/kg	99
72) 1Clhexane	11.71	91	1568064	0.0786 mg/kg	95
73) 1112Tetclota	11.85	131	1329632	0.0870 mg/kg	98
74) Ethylbenzene	11.90	91	5254887	0.0754 mg/kg	98
75) m p-Xylene	12.06	106	3994295	0.1534 mg/kg#	86
76) o-Xylene	12.62	106	2059727	0.0797 mg/kg	91
77) Styrene	12.63	104	3451747	0.0795 mg/kg	99
78) Bromoform	12.88	173	970622	0.0936 mg/kg	98
79) Isopropylben	13.14	105	5189633	0.0750 mg/kg	95
81) cyclohexanone	13.25	55	908199	1.5819 mg/kg	99
83) Bromobenzene	13.56	156	1621492	0.0780 mg/kg	100
84) 1122Tetrclta	13.55	83	1418520	0.0784 mg/kg	98
85) 123Triclproa	13.62	75	1625597	0.0822 mg/kg	99
86) 14dichloro2butene	13.64	53	390973	0.0835 mg/kg	93
87) n-Propylbenz	13.72	91	5796163	0.0720 mg/kg	94
88) 2chlorotolue	13.84	91	3720937	0.0747 mg/kg	94
89) 4chlorotolue	14.00	91	4178591	0.0735 mg/kg	97
90) 135Trimebenz	13.98	105	4336383	0.0770 mg/kg	97
91) tbutylbenzen	14.45	119	4014388	0.0766 mg/kg	97
92) 124Trimetben	14.52	105	4348162	0.0765 mg/kg	95
93) sbutylbenzen	14.77	105	5588944	0.0750 mg/kg	96
94) 13Diclorbenz	14.93	146	2846348	0.0750 mg/kg	97
95) pIsopropylto	14.99	119	4693079	0.0761 mg/kg	98
96) 14dichlorobe	15.05	146	2855739	0.0754 mg/kg	99
97) 12dichlorobe	15.60	146	2742477	0.0761 mg/kg	98
98) nButylbenzen	15.58	91	3929779	0.0754 mg/kg	95
99) 12dibromo3cl	16.70	157	334766	0.0862 mg/kg	100
100) 135Trichlorobenzene	17.01	180	2077993	0.0761 mg/kg	99
101) 124Trichlobe	17.82	180	1906735	0.0762 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717\LLCALS8.D Vial: 11
Acq On : 27 Apr 2017 15:13 Operator: RLD-AGK
Sample : 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 27 16:26:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 15:27:54 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	1263278	0.0796 mg/kg	99
103) Naphthalene	18.13	128	3768915	0.0783 mg/kg	98
104) 123Trichlben	18.44	180	1829620	0.0777 mg/kg	99

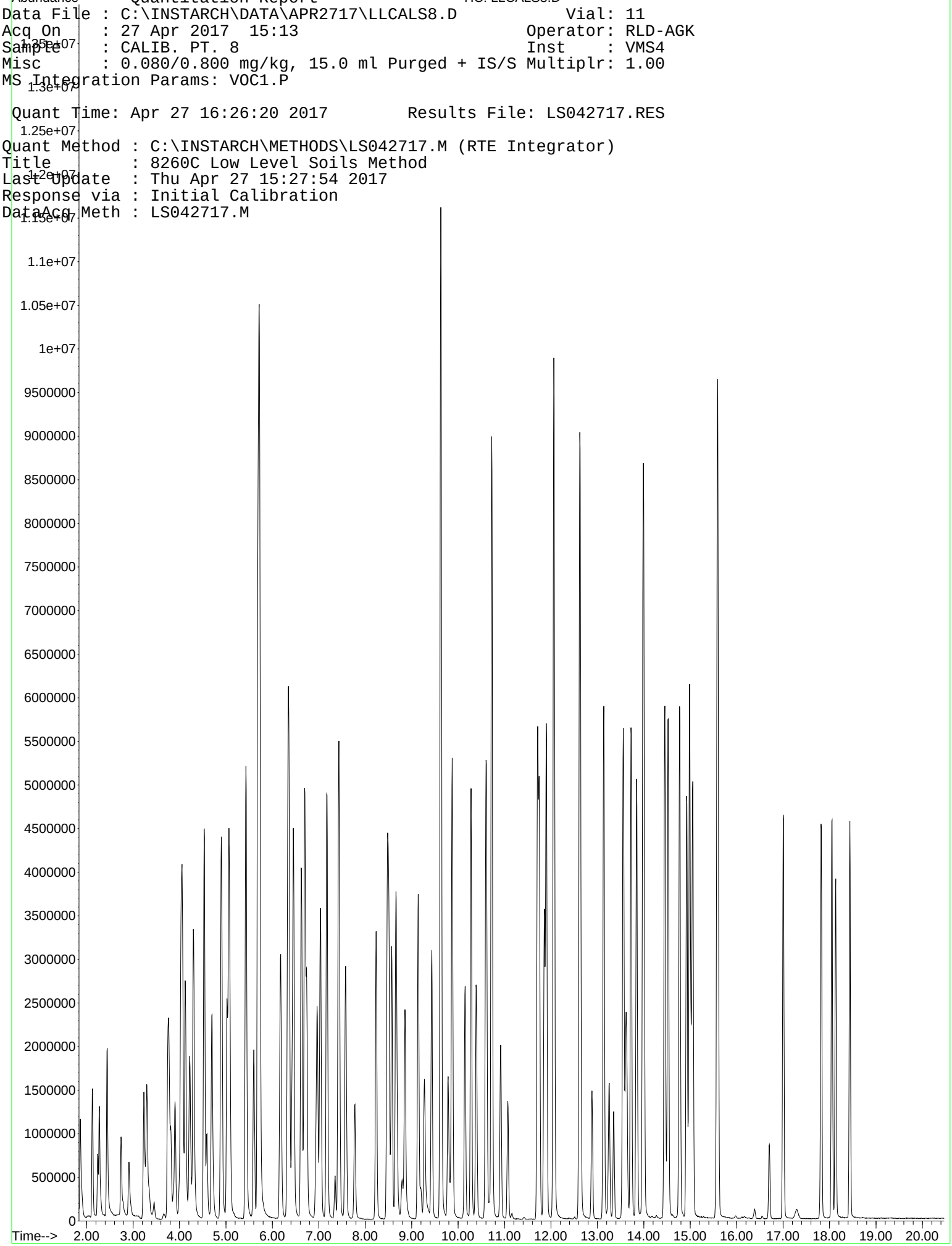
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LLCALS8.D

Data File : C:\INSTARCH\DATA\APR2717\LLCALS8.D Vial: 11
Acq On : 27 Apr 2017 15:13 Operator: RLD-AGK
Sample : 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 27 16:26:20 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 15:27:54 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR2717\ICV1.D Vial: 13
Acq On : 27 Apr 2017 16:11 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 27 16:41:56 2017

Quant Method : C:\INSTARCH\METHODS\LS042717.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS042717.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	99	0.00
2	T	Dichlorodi	0.2301	0.1859	19.21	76	0.00
3	PT	Chloromethan	0.3096	0.2607	15.79	84	0.00
4	CT	VinylChlorid	0.2613	0.2140	18.10	79	0.00
5	T	Bromomethane	0.1315	0.1154	12.24	95	0.00
6	T	Chloroethane	0.1403	0.1171	16.54	88	0.00
7	T	dichloroflmethane	0.3736	0.3252	12.96	86	0.00
8	T	Trichlorofma	0.3225	0.2791	13.46	87	0.00
9	T	Ethylether	0.1819	0.1783	1.98	100	0.00
10	T	dichlorotfluoroethan	0.2312	0.2062	10.81	87	0.00
11	T	propyleneoxide	0.0105	0.0103	1.90	111	0.00
12	T	Acrolein	0.0491	0.0503	-2.44	105	0.00
13	CT	11dichlorthe	0.1926	0.1644	14.64	85	0.00
14	T	Trichlorotfluoroeth	0.1893	0.1677	11.41	87	0.00
15	T	Acetone	0.0833	0.0793	4.80	100	0.00
16	T	Iodomethane	0.2768	0.2234	19.29	88	0.00
17	T	Carbon Dislf	0.5599	0.4841	13.54	85	0.00
18	T	allylchloride	0.3837	0.3348	12.74	86	0.00
19	T	methylacetate	0.0404	0.0385	4.70	102	0.00
20	T	Methylchlorid	0.3161	0.2531	19.93	92	0.00
21	T	Acrylonitrile	0.0801	0.0788	1.62	100	0.00
22	T	t12dichlorte	0.2194	0.1955	10.89	88	0.00
23	T	tbutylalcohol	0.0239	0.0261	-9.21	112	0.00
24	T	MtBE	0.5129	0.5027	1.99	101	0.00
25	T	Hexane	0.2987	0.2532	15.23	86	0.00
26	PT	11dichlorota	0.4090	0.3741	8.53	91	0.00
27	T	Vinylacetate	0.4343	0.4756	-9.51	103	0.00
28	T	chloroprene	0.3779	0.3500	7.38	90	0.00
29	T	Diisopether	0.8579	0.8595	-0.19	100	0.00
30	T	ETBE	0.5851	0.6136	-4.87	106	0.00
31	T	22dichloropr	0.2771	0.2560	7.61	92	0.00
32	T	c12dichlorte	0.2448	0.2309	5.68	95	0.00
33	T	2Butanone	0.0212	0.0218	-2.83	104	0.00
34	T	propionitrile	0.0322	0.0337	-4.66	104	0.00
35	T	Ethylacetate	0.0076	0.0074#	2.63	94	0.00
36	T	methacrylonitrile	0.0824	0.0829	-0.61	102	0.00
37	T	Bromochlorma	0.1100	0.1049	4.64	93	0.00
38	T	Tetrahydofur	0.0772	0.0750	2.85	100	0.00
39	CT	Chloroform	0.3883	0.3724	4.09	97	0.00
40	T	111trichlota	0.3356	0.3027	9.80	89	0.00
41	S	SURRDibrflma	0.2574	0.2672	-3.81	104	0.00
42	T	Cyclohexane	0.3986	0.3623	9.11	90	0.00
43	T	Carbtetraclo	0.2758	0.2535	8.09	91	0.00
44	T	11dicloprope	0.1060	0.0974	8.11	89	0.00
45	S	SURR12DCAd4	0.0573	0.0600	-4.71	107	0.00
46	T	Benzene	0.8581	0.7984	6.96	94	0.00
47	T	12dichlorota	0.2946	0.2966	-0.68	103	0.00
48	T	TAME	0.4466	0.4792	-7.30	113	0.00

49	T	trichloroete	0.2253	0.2215	1.69	99	0.00
50	T	methylcyclohexane	0.3429	0.3003	12.42	86	0.00
51	CT	12dicloropra	0.2539	0.2525	0.55	101	0.00
52	T	23dicl1propene	0.3316	0.3516	-6.03	105	0.00
53	T	Dibromometha	0.1322	0.1322	0.00	100	0.00
54	T	methylmethacrylate	0.1398	0.1459	-4.36	109	0.00
55	T	14dioxane	0.0023	0.0024#	-4.35	109	0.00
56	T	Bromodiclrma	0.2844	0.2871	-0.95	100	0.00
57	T	2Nitropropane	0.0478	0.0511	-6.90	116	0.00
58	T	c13dicloproe	0.3463	0.3446	0.49	101	0.00
59	T	4Meth2Pentan	0.2186	0.2465	-12.76	109	0.00
60	S	SURRd8Tolule	0.9798	1.0151	-3.60	102	0.00
61	CT	Toluene	0.5241	0.5152	1.70	98	0.00
62	T	t13Dicloprop	0.2842	0.2895	-1.86	102	0.00
63	T	ethylmethacrylate	0.2590	0.2760	-6.56	109	0.00
64	T	112Triclotha	0.1591	0.1717	-7.92	110	0.00
65	T	Tetrachlorte	0.2663	0.2558	3.94	94	0.00
66	T	13Diclorpropa	0.3177	0.3314	-4.31	105	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	103	0.00
68	T	2Hexanone	0.2037	0.2222	-9.08	113	0.00
69	T	Clorodibrmta	0.2858	0.2904	-1.61	109	0.00
70	T	12Dibrometha	0.2528	0.2570	-1.66	107	0.00
71	PT	Chlorobenzen	0.8032	0.7846	2.32	101	0.00
72	T	1Clhexane	0.3718	0.3422	7.96	96	0.00
73	T	1112Tetclota	0.2886	0.2947	-2.11	106	0.00
74	CT	Ethylbenzene	1.2927	1.2982	-0.43	103	0.00
75	T	m p-Xylene	0.4837	0.4762	1.55	101	0.00
76	T	o-Xylene	0.4822	0.4813	0.19	104	0.00
77	T	Styrene	0.8098	0.8278	-2.22	106	0.00
78	PT	Bromoform	0.1977	0.1991	-0.71	111	0.00
79	T	Isopropylben	1.2826	1.3000	-1.36	103	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	106	0.00
81	T	cyclohexanone	0.0191	0.0206	-7.85	119	0.00
82	S	SURR4BrFBenz	0.8710	0.8502	2.39	104	0.00
83	T	Bromobenzene	0.6921	0.6778	2.07	105	0.00
84	PT	1122Tetrclta	0.6026	0.6261	-3.90	110	0.00
85	T	123Triclproa	0.6627	0.6817	-2.87	110	0.00
86	T	14dichloro2butene	0.1572	0.1576	-0.25	112	0.00
87	T	n-Propylbenz	2.6533	2.6095	1.65	102	0.00
88	T	2chlorotolue	1.6483	1.6460	0.14	106	0.00
89	T	4chlorotolue	1.8783	1.8430	1.88	104	0.00
90	T	135Trimebenz	1.8723	1.8714	0.05	105	0.00
91	T	tbutylbenzen	1.7406	1.6976	2.47	101	0.00
92	T	124Trimetben	1.8880	1.8727	0.81	103	0.00
93	T	sbutylbenzen	2.4673	2.4973	-1.22	103	0.00
94	T	13Diclorbenz	1.2573	1.2483	0.72	104	0.00
95	T	pIsopropylto	2.0457	2.0162	1.44	102	0.00
96	T	14dichlorobe	1.2550	1.2188	2.88	105	0.00
97	T	12dichlorobe	1.1960	1.2125	-1.38	108	0.00
98	T	nButylbenzen	1.7275	1.6536	4.28	100	0.00
99	T	12dibromo3cl	0.1309	0.1241	5.19	109	0.00
100	T	135Trichlorobenzene	0.9058	0.8879	1.98	105	0.00
101	T	124Trichlobe	0.8308	0.7943	4.39	103	0.00
102	T	Hexachlorobu	0.5297	0.5003	5.55	102	0.00
103	T	Naphthalene	1.6018	1.6370	-2.20	111	0.00
104	T	123Trichlben	0.7831	0.7831	0.00	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS042717.M Wed May 03 15:29:59 2017

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR2717\ICV1.D Vial: 13
Acq On : 27 Apr 2017 16:11 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 27 16:41:56 2017

Quant Method : C:\INSTARCH\METHODS\LS042717.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS042717.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	99	0.00
2	T	Dichlorodi	0.0100	0.0081	19.00	76	0.00
3	PT	Chloromethan	0.0100	0.0084	16.00	84	0.00
4	CT	VinylChlorid	0.0100	0.0082	18.00	79	0.00
5	T	Bromomethane	0.0100	0.0088	12.00	95	0.00
6	T	Chloroethane	0.0100	0.0083	17.00	88	0.00
7	T	dichloroflmethane	0.0100	0.0087	13.00	86	0.00
8	T	Trichlorofma	0.0100	0.0087	13.00	87	0.00
9	T	Ethylether	0.0100	0.0098	2.00	100	0.00
10	T	dichlorotfluoroethan	0.0100	0.0089	11.00	87	0.00
11	T	propyleneoxide	0.1000	0.1040	-4.00	111	0.00
12	T	Acrolein	0.0500	0.0513	-2.60	105	0.00
13	CT	11dichlorthe	0.0100	0.0085	15.00	85	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0177	11.50	87	0.00
15	T	Acetone	0.1000	0.0951	4.90	100	0.00
16	T	Iodomethane	0.0200	0.0161	19.50	88	0.00
17	T	Carbon Dislf	0.0200	0.0173	13.50	85	0.00
18	T	allylchloride	0.0200	0.0175	12.50	86	0.00
19	T	methylacetate	0.0100	0.0095	5.00	102	0.00
20	T	Methylchlorid	0.0100	0.0095	5.00	92	0.00
21	T	Acrylonitrile	0.0500	0.0492	1.60	100	0.00
22	T	t12dichlorte	0.0100	0.0089	11.00	88	0.00
23	T	tbutylalcohol	0.5000	0.5449	-8.98	112	0.00
24	T	MtBE	0.0100	0.0098	2.00	101	0.00
25	T	Hexane	0.0200	0.0170	15.00	86	0.00
26	PT	11dichlorota	0.0100	0.0091	9.00	91	0.00
27	T	Vinylacetate	0.1000	0.1095	-9.50	103	0.00
28	T	chloroprene	0.0200	0.0185	7.50	90	0.00
29	T	Diisopether	0.0100	0.0100	0.00	100	0.00
30	T	ETBE	0.0100	0.0105	-5.00	106	0.00
31	T	22dichloropr	0.0100	0.0092	8.00	92	0.00
32	T	c12dichlorte	0.0100	0.0094	6.00	95	0.00
33	T	2Butanone	0.1000	0.1029	-2.90	104	0.00
34	T	propionitrile	0.1000	0.1045	-4.50	104	0.00
35	T	Ethylacetate	0.0500	0.0492	1.60	94	0.00
36	T	methacrylonitrile	0.0200	0.0201	-0.50	102	0.00
37	T	Bromochlorma	0.0100	0.0095	5.00	93	0.00
38	T	Tetrahydofur	0.1000	0.0971	2.90	100	0.00
39	CT	Chloroform	0.0100	0.0096	4.00	97	0.00
40	T	111trichlota	0.0100	0.0090	10.00	89	0.00
41	S	SURRDibrflma	0.0200	0.0208	-4.00	104	0.00
42	T	Cyclohexane	0.0100	0.0091	9.00	90	0.00
43	T	Carbtetraclo	0.0100	0.0092	8.00	91	0.00
44	T	11dicloprope	0.0100	0.0092	8.00	89	0.00
45	S	SURR12DCAd4	0.0200	0.0209	-4.50	107	0.00
46	T	Benzene	0.0100	0.0093	7.00	94	0.00
47	T	12dichlorota	0.0100	0.0101	-1.00	103	0.00
48	T	TAME	0.0100	0.0107	-7.00	113	0.00

49	T	trichloroete	0.0100	0.0098	2.00	99	0.00
50	T	methylcyclohexane	0.0100	0.0088	12.00	86	0.00
51	CT	12dicloropra	0.0100	0.0099	1.00	101	0.00
52	T	23dicl1propene	0.0100	0.0106	-6.00	105	0.00
53	T	Dibromometha	0.0100	0.0100	0.00	100	0.00
54	T	methylmethacrylate	0.0100	0.0104	-4.00	109	0.00
55	T	14dioxane	0.5000	0.5287	-5.74	109	0.00
56	T	Bromodiclrma	0.0100	0.0101	-1.00	100	0.00
57	T	2Nitropropane	0.1000	0.1012	-1.20	116	0.00
58	T	c13dicloproe	0.0100	0.0100	0.00	101	0.00
59	T	4Meth2Pentan	0.1000	0.1128	-12.80	109	0.00
60	S	SURRd8Tolule	0.0200	0.0207	-3.50	102	0.00
61	CT	Toluene	0.0100	0.0098	2.00	98	0.00
62	T	t13Dicloprop	0.0100	0.0102	-2.00	102	0.00
63	T	ethylmethacrylate	0.0200	0.0213	-6.50	109	0.00
64	T	112Triclotha	0.0100	0.0108	-8.00	110	0.00
65	T	Tetrachlorte	0.0100	0.0096	4.00	94	0.00
66	T	13Diclorpropa	0.0100	0.0104	-4.00	105	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	103	0.00
68	T	2Hexanone	0.1000	0.1091	-9.10	113	0.00
69	T	Clorodibrmta	0.0100	0.0102	-2.00	109	0.00
70	T	12Dibrometha	0.0100	0.0102	-2.00	107	0.00
71	PT	Chlorobenzen	0.0100	0.0098	2.00	101	0.00
72	T	1Clhexane	0.0100	0.0092	8.00	96	0.00
73	T	1112Tetclota	0.0100	0.0102	-2.00	106	0.00
74	CT	Ethylbenzene	0.0100	0.0100	0.00	103	0.00
75	T	m p-Xylene	0.0200	0.0197	1.50	101	0.00
76	T	o-Xylene	0.0100	0.0100	0.00	104	0.00
77	T	Styrene	0.0100	0.0102	-2.00	106	0.00
78	PT	Bromoform	0.0100	0.0101	-1.00	111	0.00
79	T	Isopropylben	0.0100	0.0101	-1.00	103	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	106	0.00
81	T	cyclohexanone	0.2000	0.2149	-7.45	119	0.00
82	S	SURR4BrFBenz	0.0200	0.0195	2.50	104	0.00
83	T	Bromobenzene	0.0100	0.0098	2.00	105	0.00
84	PT	1122Tetrclta	0.0100	0.0104	-4.00	110	0.00
85	T	123Triclproa	0.0100	0.0103	-3.00	110	0.00
86	T	14dichloro2butene	0.0100	0.0100	0.00	112	0.00
87	T	n-Propylbenz	0.0100	0.0098	2.00	102	0.00
88	T	2chlorotolue	0.0100	0.0100	0.00	106	0.00
89	T	4chlorotolue	0.0100	0.0098	2.00	104	0.00
90	T	135Trimebenz	0.0100	0.0100	0.00	105	0.00
91	T	tbutylbenzen	0.0100	0.0098	2.00	101	0.00
92	T	124Trimetben	0.0100	0.0099	1.00	103	0.00
93	T	sbutylbenzen	0.0100	0.0101	-1.00	103	0.00
94	T	13Diclorbenz	0.0100	0.0099	1.00	104	0.00
95	T	pIsopropylto	0.0100	0.0099	1.00	102	0.00
96	T	14dichlorobe	0.0100	0.0097	3.00	105	0.00
97	T	12dichlorobe	0.0100	0.0101	-1.00	108	0.00
98	T	nButylbenzen	0.0100	0.0096	4.00	100	0.00
99	T	12dibromo3cl	0.0100	0.0095	5.00	109	0.00
100	T	135Trichlorobenzene	0.0100	0.0098	2.00	105	0.00
101	T	124Trichlobe	0.0100	0.0096	4.00	103	0.00
102	T	Hexachlorobu	0.0100	0.0094	6.00	102	0.00
103	T	Naphthalene	0.0100	0.0102	-2.00	111	0.00
104	T	123Trichlben	0.0100	0.0100	0.00	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS042717.M Wed May 03 15:30:20 2017

Quantitation Report

Data File : C:\Instarch\Data\APR2717\ICV1.D Vial: 13
Acq On : 27 Apr 2017 16:11 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 16:41:56 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:41:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1345771	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1089142	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	612083	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	359603	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %			
45) SURR12DCAd4	7.35	102	80738	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.79	98	1366029	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 105 %			
82) SURR4BrFBenz	13.35	95	520422	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	125102	0.0081	mg/kg	96
3) Chloromethan	2.12	50	175392	0.0084	mg/kg	99
4) VinylChlorid	2.27	62	144029	0.0082	mg/kg	100
5) Bromomethane	2.75	94	77640	0.0088	mg/kg	98
6) Chloroethane	2.92	64	78809	0.0083	mg/kg	98
7) dichloroflmethane	3.23	67	218845	0.0087	mg/kg	99
8) Trichlorofma	3.30	101	187775	0.0087	mg/kg	99
9) Ethylether	3.75	59	119996	0.0098	mg/kg	95
10) dichlorotfluoroethan	3.78	67	138719	0.0089	mg/kg	96
11) propyleneoxide	3.81	58	69196	0.1040	mg/kg	94
12) Acrolein	3.90	56	169358	0.0513	mg/kg	88
13) 11dichlorthe	4.03	96	110602	0.0085	mg/kg	98
14) Trichlorotfluoroeth	4.06	101	225722	0.0177	mg/kg	99
15) Acetone	4.13	43	533473	0.0951	mg/kg	99
16) Iodomethane	4.22	142	300632	0.0161	mg/kg	98
17) Carbon Dislf	4.30	76	651498	0.0173	mg/kg	100
18) allylchloride	4.53	41	450622	0.0175	mg/kg	97
19) methylacetate	4.60	74	25891	0.0095	mg/kg	99
20) Methylchlorid	4.70	84	170279	0.0095	mg/kg	99
21) Acrylonitrile	5.03	53	265114	0.0492	mg/kg	98
22) t12dichlorte	5.06	96	131563	0.0089	mg/kg	99
23) tbutylalcohol	4.90	59	876790	0.5449	mg/kg	97
24) MtBE	5.08	73	338255	0.0098	mg/kg	99
25) Hexane	5.43	57	340713	0.0170	mg/kg	99
26) 11dichlorota	5.60	63	251739	0.0091	mg/kg	99
27) Vinylacetate	5.69	43	3200115	0.1095	mg/kg	99
28) chloroprene	5.72	53	471039	0.0185	mg/kg	100
29) Diisopether	5.72	45	578331	0.0100	mg/kg	95
30) ETBE	6.17	59	412867	0.0105	mg/kg	99
31) 22dichloropr	6.33	77	172286	0.0092	mg/kg	98
32) c12dichlorte	6.34	96	155369	0.0094	mg/kg	99
33) 2Butanone	6.37	72	146984	0.1029	mg/kg	97
34) propionitrile	6.43	54	226576	0.1045	mg/kg	99
35) Ethylacetate	6.46	88	24987	0.0492	mg/kg#	77
36) methacrylonitrile	6.62	67	111587	0.0201	mg/kg	94
37) Bromochlorma	6.64	128	70600	0.0095	mg/kg	97
38) Tetrahydofur	6.70	42	504423	0.0971	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR2717\ICV1.D Vial: 13
Acq On : 27 Apr 2017 16:11 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 16:41:56 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:41:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	250598	0.0096 mg/kg	97
40)	111trichlota	6.97	97	203668	0.0090 mg/kg	98
42)	Cyclohexane	7.04	56	243811	0.0091 mg/kg	99
43)	Carbtetraclo	7.18	119	170593	0.0092 mg/kg	97
44)	11dicloprope	7.17	110	65535	0.0092 mg/kg	99
46)	Benzene	7.43	78	537235	0.0093 mg/kg	100
47)	12dichlorota	7.44	62	199583	0.0101 mg/kg	99
48)	TAME	7.58	73	322435	0.0107 mg/kg	97
49)	trichloroete	8.24	95	149035	0.0098 mg/kg	98
50)	methylcyclohexane	8.48	83	202071	0.0088 mg/kg	95
51)	12dicloropra	8.51	63	169892	0.0099 mg/kg	91
52)	23dicl1propene	8.57	75	236588	0.0106 mg/kg	99
53)	Dibromometha	8.66	93	88976	0.0100 mg/kg	95
54)	methylmethacrylate	8.67	69	98145	0.0104 mg/kg	100
55)	14dioxane	8.69	88	81717	0.5287 mg/kg	99
56)	Bromodiclrma	8.86	83	193212	0.0101 mg/kg	95
57)	2Nitropropane	9.14	43	344070	0.1012 mg/kg	97
58)	c13dicloproe	9.43	75	231871	0.0100 mg/kg	96
59)	4Meth2Pentan	9.63	43	1658962	0.1128 mg/kg	99
61)	Toluene	9.87	92	346677	0.0098 mg/kg	98
62)	t13Dicloprop	10.15	75	194771	0.0102 mg/kg	98
63)	ethylmethacrylate	10.28	69	371429	0.0213 mg/kg	100
64)	112Triclotha	10.39	83	115509	0.0108 mg/kg	97
65)	Tetrachlorte	10.60	166	172138	0.0096 mg/kg	99
66)	13Diclorpropa	10.61	76	223023	0.0104 mg/kg	99
68)	2Hexanone	10.72	43	1209992	0.1091 mg/kg	99
69)	Clorodibrmta	10.92	129	158121	0.0102 mg/kg	99
70)	12Dibrometha	11.07	107	139969	0.0102 mg/kg	98
71)	Chlorobenzen	11.75	112	427278	0.0098 mg/kg	99
72)	1Clhexane	11.71	91	186373	0.0092 mg/kg	96
73)	1112Tetclota	11.86	131	160481	0.0102 mg/kg	98
74)	Ethylbenzene	11.90	91	706975	0.0100 mg/kg	98
75)	m p-Xylene	12.06	106	518633	0.0197 mg/kg	98
76)	o-Xylene	12.62	106	262127	0.0100 mg/kg	97
77)	Styrene	12.63	104	450789	0.0102 mg/kg	99
78)	Bromoform	12.88	173	108411	0.0101 mg/kg	98
79)	Isopropylben	13.14	105	707957	0.0101 mg/kg	99
81)	cyclohexanone	13.25	55	125894	0.2149 mg/kg	99
83)	Bromobenzene	13.56	156	207428	0.0098 mg/kg	96
84)	1122Tetrclta	13.55	83	191605	0.0104 mg/kg	98
85)	123Triclproa	13.61	75	208636	0.0103 mg/kg	99
86)	14dichloro2butene	13.64	53	48219	0.0100 mg/kg	99
87)	n-Propylbenz	13.72	91	798608	0.0098 mg/kg	100
88)	2chlorotolue	13.84	91	503746	0.0100 mg/kg	99
89)	4chlorotolue	14.00	91	564027	0.0098 mg/kg	100
90)	135Trimebenz	13.98	105	572713	0.0100 mg/kg	99
91)	tbutylbenzen	14.45	119	519547	0.0098 mg/kg	96
92)	124Trimetben	14.53	105	573137	0.0099 mg/kg	98
93)	sbutylbenzen	14.77	105	764287	0.0101 mg/kg	99
94)	13Diclorbenz	14.93	146	382043	0.0099 mg/kg	99
95)	pIsopropylto	14.99	119	617033	0.0099 mg/kg	99
96)	14dichlorobe	15.05	146	373015	0.0097 mg/kg	98
97)	12dichlorobe	15.60	146	371076	0.0101 mg/kg	97
98)	nButylbenzen	15.58	91	506058	0.0096 mg/kg	98
99)	12dibromo3cl	16.70	157	37988	0.0095 mg/kg	98
100)	135Trichlorobenzene	17.01	180	271724	0.0098 mg/kg	99
101)	124Trichlobe	17.82	180	243103	0.0096 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR2717\ICV1.D Vial: 13
Acq On : 27 Apr 2017 16:11 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 16:41:56 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:41:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	153119	0.0094 mg/kg	98
103) Naphthalene	18.13	128	500999	0.0102 mg/kg	99
104) 123Trichlben	18.44	180	239661	0.0100 mg/kg	98

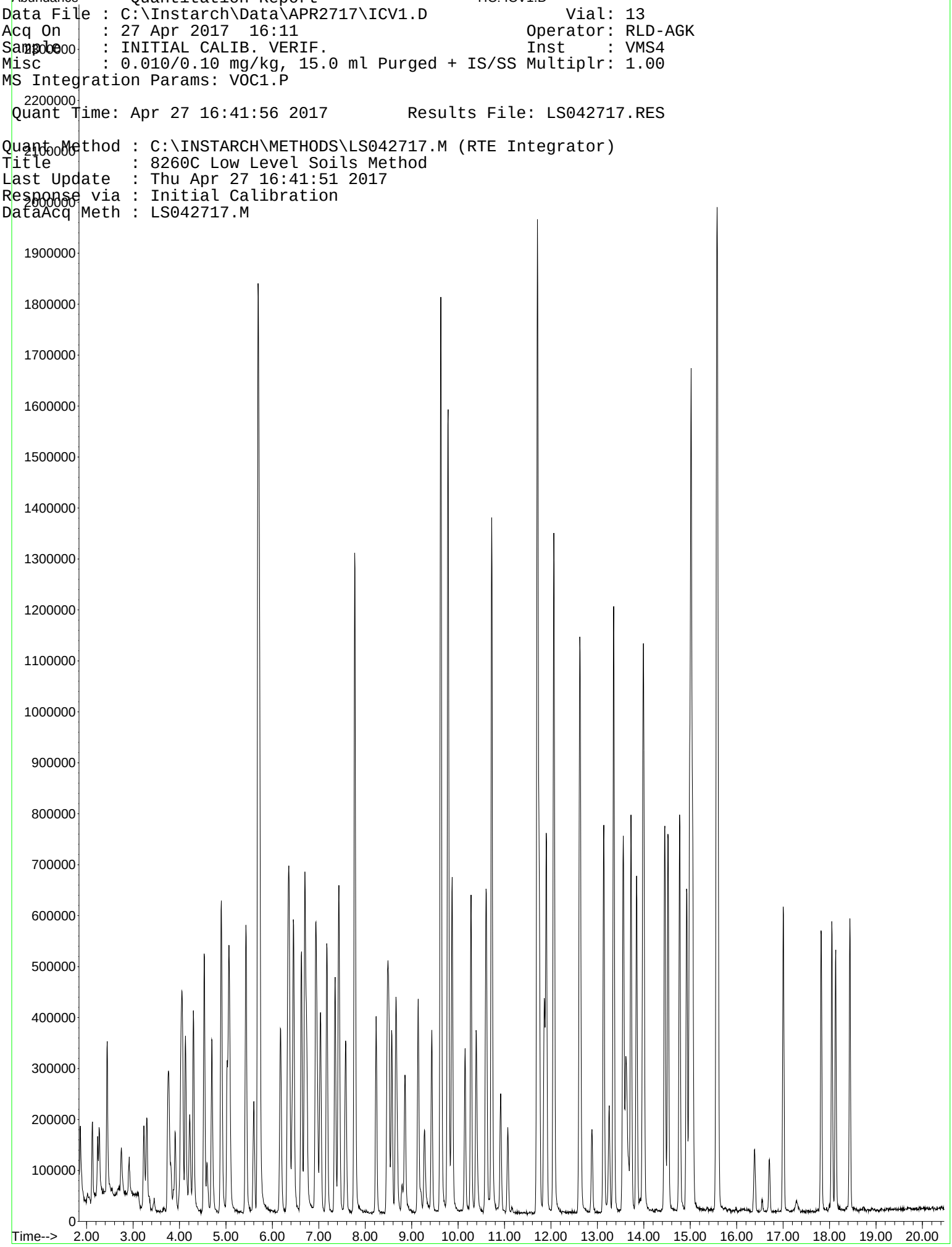
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICV1.D

Data File : C:\Instarch\Data\APR2717\ICV1.D Vial: 13
Acq On : 27 Apr 2017 16:11 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.010/0.10 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 16:41:56 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 16:41:51 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\APR2717\ICV2.D Vial: 14
Acq On : 27 Apr 2017 16:40 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.30 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 27 17:01:10 2017

Quant Method : C:\INSTARCH\METHODS\LS042717.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS042717.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	98	0.00
2	T	Dichlorodi	0.0300	0.0245	18.33	87	0.00
3	PT	Chloromethan	0.0300	0.0245	18.33	85	0.00
4	CT	VinylChlorid	0.0300	0.0242	19.33	83	0.00
5	T	Bromomethane	0.0300	0.0268	10.67	91	0.00
6	T	Chloroethane	0.0300	0.0241	19.67	86	0.00
7	T	dichloroflmethane	0.0300	0.0264	12.00	91	0.00
8	T	Trichlorofma	0.0300	0.0259	13.67	90	0.00
9	T	Ethylether	0.0300	0.0274	8.67	90	0.00
10	T	dichlorotfluoroethan	0.0300	0.0270	10.00	93	0.00
11	T	propyleneoxide	0.3000	0.2718	9.40	88	0.00
12	T	Acrolein	0.1500	0.1411	5.93	95	0.00
13	CT	11dichlorthe	0.0300	0.0257	14.33	88	0.00
14	T	Trichlorotfluoroeth	0.0600	0.0533	11.17	92	0.00
15	T	Acetone	0.3000	0.2477	17.43	90	0.00
16	T	Iodomethane	0.0600	0.0495	17.50	86	0.00
17	T	Carbon Dislf	0.0600	0.0528	12.00	89	0.00
18	T	allylchloride	0.0600	0.0536	10.67	91	0.00
19	T	methylacetate	0.0300	0.0282	6.00	92	0.00
20	T	Methylchlorid	0.0300	0.0273	9.00	92	0.00
21	T	Acrylonitrile	0.1500	0.1392	7.20	91	0.00
22	T	t12dichlorte	0.0300	0.0262	12.67	91	0.00
23	T	tbutylalcohol	1.5000	1.5121	-0.81	99	0.00
24	T	MtBE	0.0300	0.0288	4.00	94	0.00
25	T	Hexane	0.0600	0.0526	12.33	94	0.00
26	PT	11dichlorota	0.0300	0.0274	8.67	92	0.00
27	T	Vinylacetate	0.3000	0.2779	7.37	95	0.00
28	T	chloroprene	0.0600	0.0554	7.67	93	0.00
29	T	Diisopether	0.0300	0.0292	2.67	97	0.00
30	T	ETBE	0.0300	0.0316	-5.33	102	0.00
31	T	22dichloropr	0.0300	0.0275	8.33	92	0.00
32	T	c12dichlorte	0.0300	0.0284	5.33	96	0.00
33	T	2Butanone	0.3000	0.2898	3.40	93	0.00
34	T	propionitrile	0.3000	0.2856	4.80	93	0.00
35	T	Ethylacetate	0.1500	0.1482	1.20	92	0.00
36	T	methacrylonitrile	0.0600	0.0564	6.00	95	0.00
37	T	Bromochlorma	0.0300	0.0287	4.33	95	0.00
38	T	Tetrahydofur	0.3000	0.2660	11.33	90	0.00
39	CT	Chloroform	0.0300	0.0284	5.33	96	0.00
40	T	111trichlota	0.0300	0.0281	6.33	95	0.00
41	S	SURRDibrflma	0.0200	0.0195	2.50	100	0.00
42	T	Cyclohexane	0.0300	0.0277	7.67	95	0.00
43	T	Carbtetraclo	0.0300	0.0288	4.00	95	0.00
44	T	11dicloprope	0.0300	0.0288	4.00	95	0.00
45	S	SURR12DCAd4	0.0200	0.0192	4.00	95	0.00
46	T	Benzene	0.0300	0.0276	8.00	94	0.00
47	T	12dichlorota	0.0300	0.0290	3.33	97	0.00
48	T	TAME	0.0300	0.0323	-7.67	103	0.00

49	T	trichloroete	0.0300	0.0294	2.00	98	0.00
50	T	methylcyclohexane	0.0300	0.0281	6.33	97	0.00
51	CT	12dicloropra	0.0300	0.0293	2.33	99	0.00
52	T	23dicl1propene	0.0300	0.0309	-3.00	99	0.00
53	T	Dibromometha	0.0300	0.0295	1.67	99	0.00
54	T	methylmethacrylate	0.0300	0.0300	0.00	96	0.00
55	T	14dioxane	1.5000	1.4617	2.55	98	0.00
56	T	Bromodiclrma	0.0300	0.0307	-2.33	101	0.00
57	T	2Nitropropane	0.3000	0.2924	2.53	97	0.00
58	T	c13dicloproe	0.0300	0.0301	-0.33	99	0.00
59	T	4Meth2Pentan	0.3000	0.2959	1.37	98	0.00
60	S	SURRd8Tolule	0.0200	0.0198	1.00	99	0.00
61	CT	Toluene	0.0300	0.0296	1.33	99	0.00
62	T	t13Dicloprop	0.0300	0.0312	-4.00	100	0.00
63	T	ethylmethacrylate	0.0600	0.0618	-3.00	101	0.00
64	T	112Triclotha	0.0300	0.0308	-2.67	101	0.00
65	T	Tetrachlorte	0.0300	0.0290	3.33	100	0.00
66	T	13Diclorpropa	0.0300	0.0301	-0.33	100	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	99	0.00
68	T	2Hexanone	0.3000	0.3064	-2.13	99	0.00
69	T	Clorodibrmta	0.0300	0.0328	-9.33	103	0.00
70	T	12Dibrometha	0.0300	0.0309	-3.00	99	0.00
71	PT	Chlorobenzen	0.0300	0.0302	-0.67	102	0.00
72	T	1Clhexane	0.0300	0.0302	-0.67	104	0.00
73	T	1112Tetclota	0.0300	0.0330	-10.00	106	0.00
74	CT	Ethylbenzene	0.0300	0.0307	-2.33	102	0.00
75	T	m p-Xylene	0.0600	0.0616	-2.67	104	0.00
76	T	o-Xylene	0.0300	0.0314	-4.67	104	0.00
77	T	Styrene	0.0300	0.0320	-6.67	104	0.00
78	PT	Bromoform	0.0300	0.0329	-9.67	102	0.00
79	T	Isopropylben	0.0300	0.0315	-5.00	104	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	98	0.00
81	T	cyclohexanone	0.6000	0.6180	-3.00	102	0.00
82	S	SURR4BrFBenz	0.0200	0.0202	-1.00	98	0.00
83	T	Bromobenzene	0.0300	0.0311	-3.67	103	0.00
84	PT	1122Tetrclta	0.0300	0.0318	-6.00	103	0.00
85	T	123Triclproa	0.0300	0.0321	-7.00	103	0.00
86	T	14dichloro2butene	0.0300	0.0317	-5.67	103	0.00
87	T	n-Propylbenz	0.0300	0.0316	-5.33	105	0.00
88	T	2chlorotolue	0.0300	0.0315	-5.00	106	0.00
89	T	4chlorotolue	0.0300	0.0311	-3.67	105	0.00
90	T	135Trimebenz	0.0300	0.0322	-7.33	105	0.00
91	T	tbutylbenzen	0.0300	0.0323	-7.67	106	0.00
92	T	124Trimetben	0.0300	0.0320	-6.67	105	0.00
93	T	sbutylbenzen	0.0300	0.0326	-8.67	107	0.00
94	T	13Diclorbenz	0.0300	0.0309	-3.00	105	0.00
95	T	pIsopropylto	0.0300	0.0323	-7.67	106	0.00
96	T	14dichlorobe	0.0300	0.0309	-3.00	104	0.00
97	T	12dichlorobe	0.0300	0.0311	-3.67	104	0.00
98	T	nButylbenzen	0.0300	0.0313	-4.33	105	0.00
99	T	12dibromo3cl	0.0300	0.0309	-3.00	98	0.00
100	T	135Trichlorobenzene	0.0300	0.0315	-5.00	108	0.00
101	T	124Trichlobe	0.0300	0.0302	-0.67	103	0.00
102	T	Hexachlorobu	0.0300	0.0318	-6.00	107	0.00
103	T	Naphthalene	0.0300	0.0313	-4.33	102	0.00
104	T	123Trichlben	0.0300	0.0310	-3.33	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS042717.M Wed May 03 15:30:59 2017

Quantitation Report

Data File : C:\Instarch\Data\APR2717\ICV2.D Vial: 14
Acq On : 27 Apr 2017 16:40 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.30 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 17:01:10 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 17:00:59 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1377633	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1058207	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	577033	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	345960	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	75893	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 95 %			
60) SURRd8Tolule	9.79	98	1338997	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	507392	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	388126	0.0245	mg/kg	100
3) Chloromethan	2.12	50	523053	0.0245	mg/kg	98
4) VinylChlorid	2.27	62	436355	0.0242	mg/kg	99
5) Bromomethane	2.75	94	242977	0.0268	mg/kg	97
6) Chloroethane	2.92	64	232578	0.0241	mg/kg	100
7) dichloroflmethane	3.23	67	680237	0.0264	mg/kg	93
8) Trichlorofma	3.29	101	574911	0.0259	mg/kg	99
9) Ethylether	3.75	59	342987	0.0274	mg/kg	96
10) dichlorotfluoroethan	3.77	67	429990	0.0270	mg/kg	98
11) propyleneoxide	3.82	58	211406	0.2718	mg/kg	100
12) Acrolein	3.91	56	476894	0.1411	mg/kg	90
13) 11dichlorthe	4.03	96	341037	0.0257	mg/kg	94
14) Trichlorotfluoroeth	4.06	101	694815	0.0533	mg/kg	98
15) Acetone	4.13	43	1421747	0.2477	mg/kg	100
16) Iodomethane	4.22	142	944294	0.0495	mg/kg	98
17) Carbon Dislf	4.30	76	2034340	0.0528	mg/kg	99
18) allylchloride	4.53	41	1415779	0.0536	mg/kg	100
19) methylacetate	4.59	74	78506	0.0282	mg/kg	96
20) Methylchlorid	4.70	84	434728	0.0273	mg/kg	99
21) Acrylonitrile	5.02	53	768250	0.1392	mg/kg	99
22) t12dichlorte	5.06	96	396299	0.0262	mg/kg	97
23) tbutylalcohol	4.90	59	2490782	1.5121	mg/kg	99
24) MtBE	5.08	73	1016977	0.0288	mg/kg	99
25) Hexane	5.43	57	1082658	0.0526	mg/kg	99
26) 11dichlorota	5.60	63	772899	0.0274	mg/kg	99
27) Vinylacetate	5.69	43	8313806	0.2779	mg/kg	96
28) chloroprene	5.72	53	1441931	0.0554	mg/kg	99
29) Diisopether	5.72	45	1723467	0.0292	mg/kg#	82
30) ETBE	6.17	59	1274100	0.0316	mg/kg	100
31) 22dichloropr	6.33	77	525814	0.0275	mg/kg	99
32) c12dichlorte	6.34	96	479147	0.0284	mg/kg	99
33) 2Butanone	6.36	72	423878	0.2898	mg/kg	100
34) propionitrile	6.43	54	633674	0.2856	mg/kg	98
35) Ethylacetate	6.46	88	77055	0.1482	mg/kg#	89
36) methacrylonitrile	6.62	67	320278	0.0564	mg/kg	97
37) Bromochlorma	6.63	128	217717	0.0287	mg/kg	99
38) Tetrahydofur	6.70	42	1415197	0.2660	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR2717\ICV2.D Vial: 14
Acq On : 27 Apr 2017 16:40 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.30 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 17:01:10 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 17:00:59 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	759634	0.0284	mg/kg	99
40)	111trichlota	6.97	97	649008	0.0281	mg/kg	99
42)	Cyclohexane	7.04	56	760783	0.0277	mg/kg	99
43)	Carbtetraclo	7.18	119	547336	0.0288	mg/kg	99
44)	11dicloprope	7.18	110	209971	0.0288	mg/kg	98
46)	Benzene	7.43	78	1633530	0.0276	mg/kg	100
47)	12dichlorota	7.44	62	588051	0.0290	mg/kg	99
48)	TAME	7.58	73	994533	0.0323	mg/kg	99
49)	trichloroete	8.23	95	456218	0.0294	mg/kg	99
50)	methylcyclohexane	8.48	83	664082	0.0281	mg/kg	99
51)	12dicloropra	8.51	63	512729	0.0293	mg/kg	100
52)	23dicl1propene	8.57	75	705877	0.0309	mg/kg	98
53)	Dibromometha	8.65	93	268538	0.0295	mg/kg	96
54)	methylmethacrylate	8.67	69	288703	0.0300	mg/kg	97
55)	14dioxane	8.69	88	231269	1.4617	mg/kg	99
56)	Bromodiclrma	8.86	83	601109	0.0307	mg/kg	95
57)	2Nitropropane	9.14	43	1096989	0.2924	mg/kg	96
58)	c13dicloproe	9.43	75	716889	0.0301	mg/kg	99
59)	4Meth2Pentan	9.63	43	4455620	0.2959	mg/kg	97
61)	Toluene	9.87	92	1070261	0.0296	mg/kg	96
62)	t13Dicloprop	10.15	75	609981	0.0312	mg/kg	98
63)	ethylmethacrylate	10.28	69	1101737	0.0618	mg/kg	99
64)	112Triclotha	10.39	83	337716	0.0308	mg/kg	99
65)	Tetrachlorte	10.60	166	531836	0.0290	mg/kg	98
66)	13Diclorpropa	10.61	76	658575	0.0301	mg/kg	99
68)	2Hexanone	10.72	43	3302562	0.3064	mg/kg	98
69)	Clorodibrmta	10.92	129	496425	0.0328	mg/kg	100
70)	12Dibrometha	11.07	107	413178	0.0309	mg/kg	98
71)	Chlorobenzen	11.75	112	1284634	0.0302	mg/kg	100
72)	1Clhexane	11.71	91	594308	0.0302	mg/kg	97
73)	1112Tetclota	11.85	131	503877	0.0330	mg/kg	98
74)	Ethylbenzene	11.90	91	2100522	0.0307	mg/kg	100
75)	m p-Xylene	12.06	106	1577085	0.0616	mg/kg	95
76)	o-Xylene	12.61	106	800895	0.0314	mg/kg	95
77)	Styrene	12.63	104	1372519	0.0320	mg/kg	99
78)	Bromoform	12.88	173	343735	0.0329	mg/kg	96
79)	Isopropylben	13.14	105	2139820	0.0315	mg/kg	98
81)	cyclohexanone	13.25	55	341236	0.6180	mg/kg	99
83)	Bromobenzene	13.56	156	621056	0.0311	mg/kg	98
84)	1122Tetrclta	13.55	83	552196	0.0318	mg/kg	99
85)	123Triclproa	13.61	75	614462	0.0321	mg/kg	99
86)	14dichloro2butene	13.63	53	143853	0.0317	mg/kg	98
87)	n-Propylbenz	13.72	91	2416258	0.0316	mg/kg	99
88)	2chlorotolue	13.84	91	1496019	0.0315	mg/kg	97
89)	4chlorotolue	14.00	91	1683667	0.0311	mg/kg	100
90)	135Trimebenz	13.98	105	1738864	0.0322	mg/kg	100
91)	tbutylbenzen	14.45	119	1620630	0.0323	mg/kg	98
92)	124Trimetben	14.52	105	1741911	0.0320	mg/kg	98
93)	sbutylbenzen	14.77	105	2320397	0.0326	mg/kg	99
94)	13Diclorbenz	14.92	146	1122330	0.0309	mg/kg	98
95)	pIsopropylto	14.99	119	1905073	0.0323	mg/kg	99
96)	14dichlorobe	15.05	146	1120626	0.0309	mg/kg	97
97)	12dichlorobe	15.60	146	1073720	0.0311	mg/kg	99
98)	nButylbenzen	15.58	91	1561002	0.0313	mg/kg	98
99)	12dibromo3cl	16.70	157	116682	0.0309	mg/kg	96
100)	135Trichlorobenzene	17.01	180	823238	0.0315	mg/kg	98
101)	124Trichlobe	17.82	180	724819	0.0302	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR2717\ICV2.D Vial: 14
Acq On : 27 Apr 2017 16:40 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.30 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 17:01:10 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 17:00:59 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	485238	0.0318	mg/kg	99
103) Naphthalene	18.13	128	1445093	0.0313	mg/kg	99
104) 123Trichlben	18.44	180	701147	0.0310	mg/kg	100

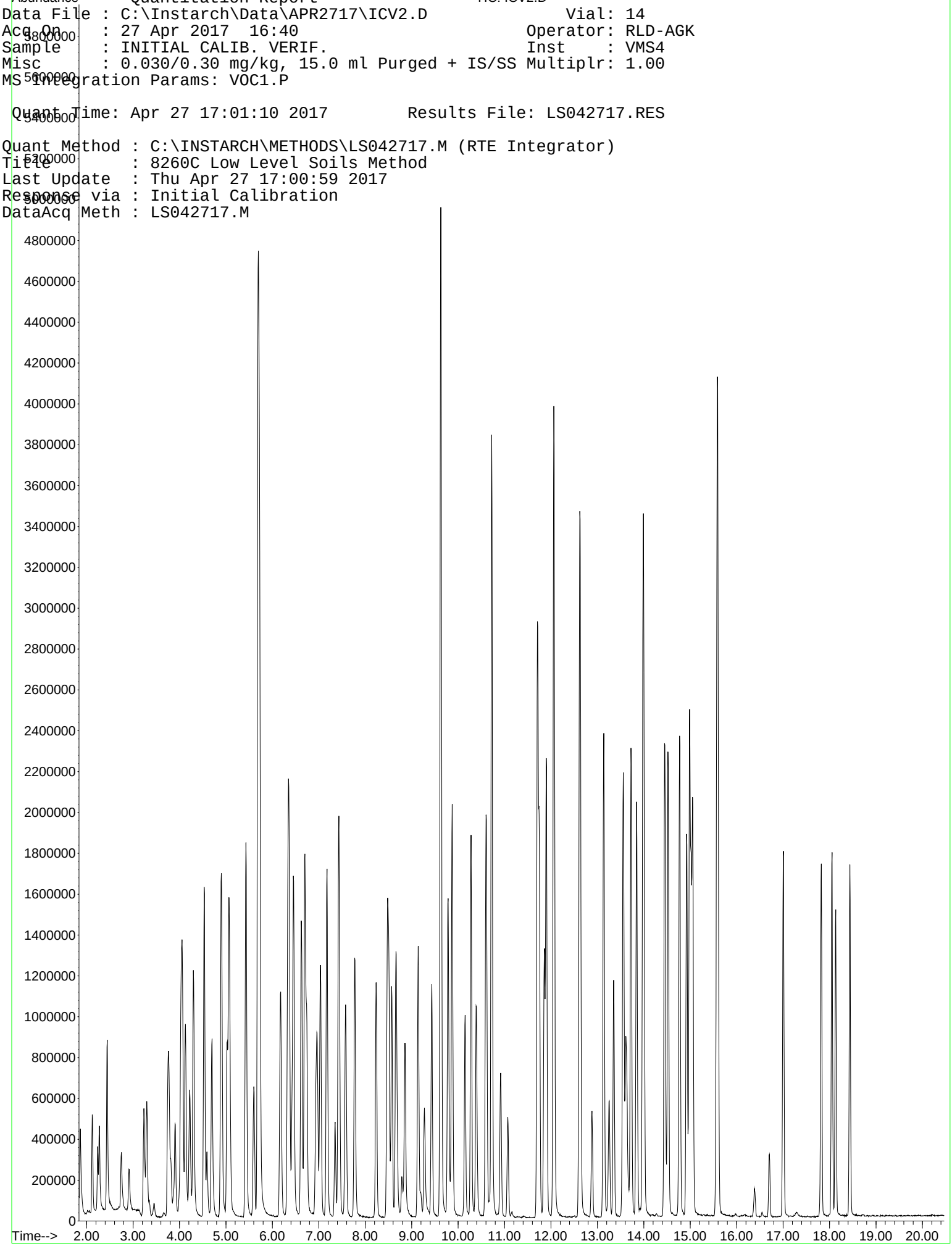
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: ICV2.D

Data File : C:\Instarch\Data\APR2717\ICV2.D Vial: 14
Acq On : 27 Apr 2017 16:40 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.030/0.30 mg/kg, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 17:01:10 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 17:00:59 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



Quantitation Report

Data File : C:\Instarch\Data\APR2717\ICB1.D Vial: 16
Acq On : 27 Apr 2017 17:38 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 17:59:07 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 17:00:59 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.78	96	1304066	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1043338	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	569220	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	337618	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	73311	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1301829	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	500819	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	7674	N.D.		
3) Chloromethan	2.12	50	3728	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.76	94	3447	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	3.95	56	1667	N.D.		
13) 11dichlorthe	0.00	96	0	N.D.		
14) Trichlorotfluoroeth	0.00	101	0	N.D.		
15) Acetone	4.14	43	34536	N.D.		
16) Iodomethane	4.22	142	17652	0.0010	mg/kg#	73
17) Carbon Dislf	4.30	76	5239	N.D.		
18) allylchloride	4.52	41	16954	N.D.		
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.69	84	26182	Below	Cal	97
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.91	59	3467	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.44	57	2797	N.D.		
26) 11dichlorota	0.00	63	0	N.D.		
27) Vinylacetate	5.69	43	4145	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	6.46	54	1099	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	6.71	42	8092	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR2717\ICB1.D Vial: 16
Acq On : 27 Apr 2017 17:38 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 17:59:07 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 17:00:59 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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	7.43	78	6123	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	9.14	43	1099	0.0106	mg/kg#	1
58)	c13dicloproe	0.00	75	0	N.D.		
59)	4Meth2Pentan	9.63	43	11569	N.D.		
61)	Toluene	9.87	92	2065	N.D.		
62)	t13Dicloprop	0.00	75	0	N.D.		
63)	ethylmethacrylate	10.28	69	1744	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	10.73	43	15549	N.D.		
69)	Clorodibrmta	0.00	129	0	N.D.		
70)	12Dibrometha	0.00	107	0	N.D.		
71)	Chlorobenzen	11.74	112	1367	N.D.		
72)	1Clhexane	11.71	91	2988	N.D.		
73)	1112Tetclota	0.00	131	0	N.D.		
74)	Ethylbenzene	11.92	91	1528	N.D.		
75)	m p-Xylene	12.06	106	2130	N.D.		
76)	o-Xylene	0.00	106	0	N.D.		
77)	Styrene	12.63	104	2229	N.D.		
78)	Bromoform	0.00	173	0	N.D.		
79)	Isopropylben	13.15	105	1452	N.D.		
81)	cyclohexanone	13.27	55	3815	N.D.		
83)	Bromobenzene	0.00	156	0	N.D.		
84)	1122Tetrclta	0.00	83	0	N.D.		
85)	123Triclproa	13.66	75	1433	N.D.		
86)	14dichloro2butene	0.00	53	0	N.D.		
87)	n-Propylbenz	13.71	91	3680	N.D.		
88)	2chlorotolue	13.84	91	2348	N.D.		
89)	4chlorotolue	14.00	91	4048	N.D.		
90)	135Trimebenz	13.97	105	2349	N.D.		
91)	tbutylbenzen	14.48	119	1594	N.D.		
92)	124Trimetben	14.54	105	7477	N.D.		
93)	sbutylbenzen	14.76	105	1811	N.D.		
94)	13Diclorbenz	14.92	146	3890	N.D.		
95)	pIsopropylto	14.99	119	2462	N.D.		
96)	14dichlorobe	15.04	146	4434	N.D.		
97)	12dichlorobe	15.60	146	3342	N.D.		
98)	nButylbenzen	15.57	91	4807	N.D.		
99)	12dibromo3cl	0.00	157	0	N.D.		
100)	135Trichlorobenzene	16.99	180	2213	N.D.		
101)	124Trichlobe	17.82	180	7959	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\APR2717\ICB1.D Vial: 16
Acq On : 27 Apr 2017 17:38 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 17:59:07 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 17:00:59 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.04	225	1607	N.D.	
103) Naphthalene	18.13	128	22338	N.D.	
104) 123Trichlben	18.44	180	7304	N.D.	

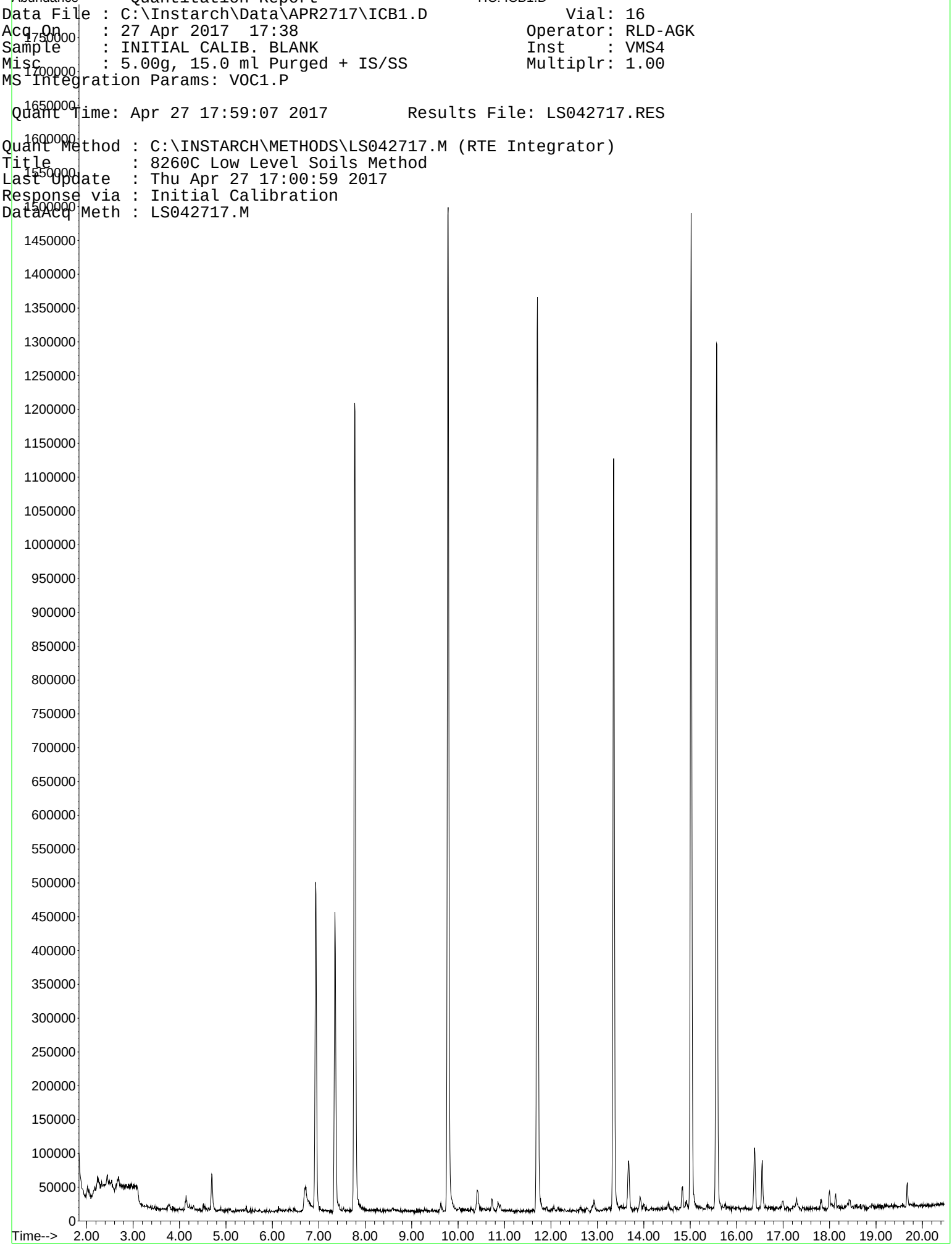
(#) = qualifier out of range (m) = manual integration

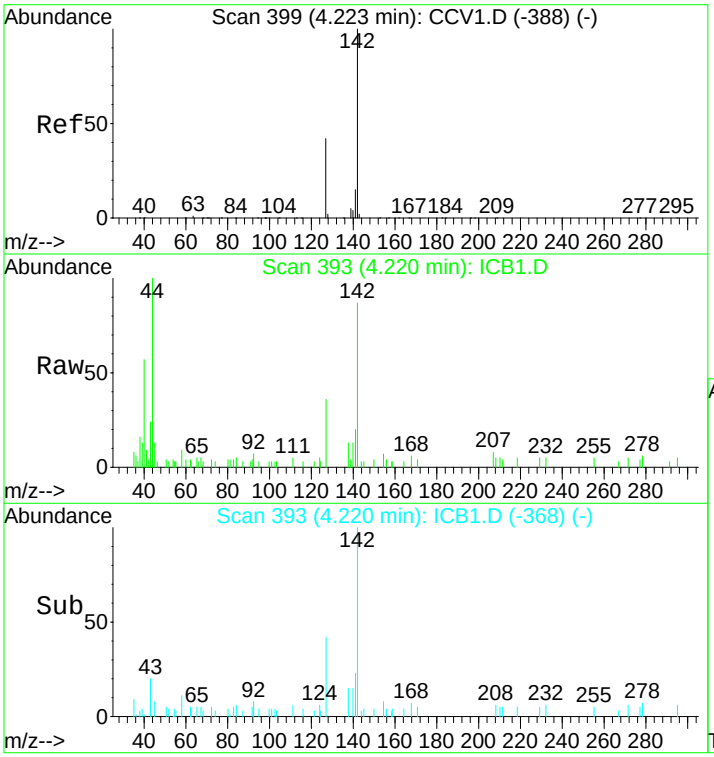
Abundance Quantitation Report TIC: ICB1.D

Data File : C:\Instarch\Data\APR2717\ICB1.D Vial: 16
Acq On : 27 Apr 2017 17:38 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 27 17:59:07 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 17:00:59 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

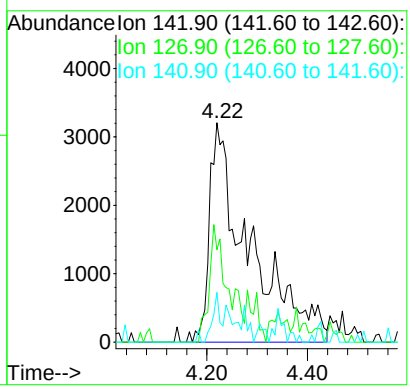


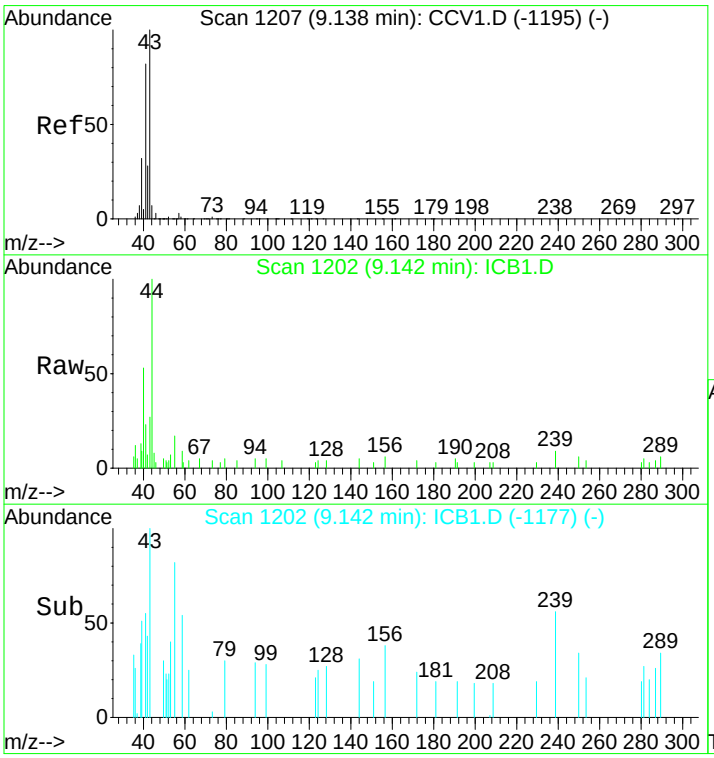


#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.22 min Scan# 393
Delta R.T. 0.00 min
Lab File: ICB1.D
Acq: 27 Apr 2017 17:38

Tgt Ion:142 Resp: 17652

Ion	Ratio	Lower	Upper
142	100		
127	24.9	19.8	59.8
141	0.0	0.0	34.5

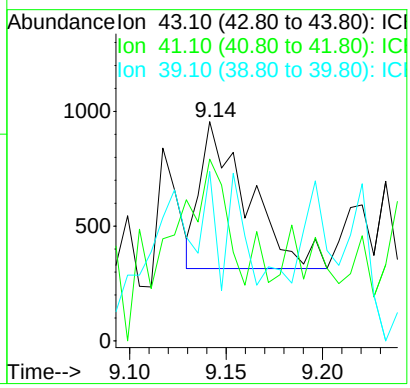




#57
2Nitropropane
Concen: 0.01 mg/kg
RT: 9.14 min Scan# 1202
Delta R.T. 0.00 min
Lab File: ICB1.D
Acq: 27 Apr 2017 17:38

Tgt Ion: 43 Resp: 1099

Ion	Ratio	Lower	Upper
43	100		
41	286.0	69.4	109.4#
39	165.4	12.8	52.8#



VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

BFB

Data File : C:\Instarch\Data\APR2117\BFB1.D Vial: 1
Acq On : 21 Apr 2017 8:02 Operator: RLD-AGK
Sample : 136714,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW040917.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.778 to 4.784 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	7807	PASS
75	95	30	60	42.4	16950	PASS
95	95	100	100	100.0	39954	PASS
96	95	5	9	6.9	2742	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	98.8	39472	PASS
175	174	5	9	8.8	3473	PASS
176	174	95	101	98.5	38898	PASS
177	176	5	9	6.2	2405	PASS

LW040917.M Wed Apr 26 08:59:38 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2117\CCV-LCS1.D Vial: 3
Acq On : 21 Apr 2017 8:43 Operator: RLD-AGK
Sample : 136714,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 21 09:07:07 2017

Quant Method : C:\INSTARCH\METHODS\LW040917.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW040917.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	114	0.00
2	PT	Dichlorodi	0.3286	0.3024	7.97	115	0.00
3	PT	Chloromethan	0.3891	0.3472	10.77	104	0.00
4	PT	VinylChlorid	0.3259	0.3144	3.53	110	0.00
5	PT	Bromomethane	0.1164	0.1246	-7.04	125	0.00
6	PT	Chloroethane	0.1732	0.1713	1.10	110	0.00
7	T	Dichloroflmethane	0.4361	0.4163	4.54	109	0.00
8	PT	Trichlorofma	0.3472	0.3731	-7.46	120	0.00
9	T	Ethylether	0.1558	0.1582	-1.54	112	0.00
10	T	dichlorotfluoroethan	0.2586	0.2534	2.01	116	0.00
11	T	propyleneoxide	0.0134	0.0133#	0.75	123	0.00
12	T	Acrolein	0.0296	0.0260#	12.16	112	0.00
13	PT	11dichlorthe	0.2122	0.2061	2.87	114	0.00
14	PT	Trichlorotfluoroeth	0.2020	0.2052	-1.58	126	0.00
15	PT	Acetone	0.0496	0.0441#	11.09	118	0.00
16	T	Iodomethane	0.1446	0.1788	-23.65#	114	0.00
17	PT	Carbon Dislf	0.4766	0.4512	5.33	112	0.00
18	T	allylchloride	0.4081	0.3886	4.78	106	0.00
19	PT	methylacetate	0.0216	0.0354#	-63.89#	205#	0.00
20	PT	Methylchlorid	0.3323	0.2360	28.98#	108	0.00
21	T	tbutylalcohol	0.0116	0.0109#	6.03	131	0.00
22	T	Acrylonitrile	0.0525	0.0491	6.48	119	0.00
23	PT	t12dichlorte	0.2368	0.2237	5.53	113	0.00
24	PT	MtBE	0.4420	0.4284	3.08	117	0.00
25	T	Hexane	0.3254	0.3730	-14.63	135	0.00
26	PT	11dichlorota	0.4802	0.4500	6.29	107	0.00
27	T	Vinylacetate	0.3200	0.3173	0.84	107	0.00
28	T	chloroprene	0.4314	0.4334	-0.46	115	0.00
29	T	Diisopether	0.9528	0.8991	5.64	108	0.00
30	T	ETBE	0.6260	0.5993	4.27	110	0.00
31	T	22dichloropr	0.2946	0.2906	1.36	118	0.00
32	PT	c12dichlorte	0.2763	0.2521	8.76	107	0.00
33	PT	2Butanone	0.0132	0.0125#	5.30	114	0.00
34	T	propionitrile	0.0203	0.0186#	8.37	120	0.00
35	T	Ethylacetate	0.0044	0.0048#	-9.09	126	0.00
36	T	methacrylonitrile	0.0557	0.0513	7.90	120	0.00
37	T	Bromochlorma	0.1174	0.1093	6.90	109	0.00
38	T	Tetrahydofur	0.0509	0.0464	8.84	122	0.00
39	PT	Chloroform	0.4623	0.4217	8.78	110	0.00
40	PT	111trichlota	0.3695	0.3574	3.27	115	0.00
41	S	SURRDibrflma	0.2724	0.2766	-1.54	117	0.00
42	PT	Cyclohexane	0.4149	0.4143	0.14	121	0.00
43	PT	Carbtetraclo	0.2768	0.2977	-7.55	122	0.00
44	T	11dicloprope	0.1176	0.1207	-2.64	116	0.00
45	S	SURR12DCAd4	0.0553	0.0529	4.34	116	0.00
46	PT	Benzene	0.9898	0.9222	6.83	108	0.00
47	PT	12dichlorota	0.3059	0.2925	4.38	118	0.00
48	T	TAME	0.4578	0.4425	3.34	114	0.00

49	PT	trichloroete	0.2502	0.2376	5.04	110	0.00
50	PT	methylcyclohexane	0.3731	0.3905	-4.66	125	0.00
51	PT	12dicloropra	0.2880	0.2731	5.17	110	0.00
52	T	23Dicl1propene	0.3563	0.3337	6.34	109	0.00
53	T	Dibromometha	0.1202	0.1223	-1.75	116	0.00
54	T	methylmethacrylate	0.0897	0.0893	0.45	121	0.00
55	T	14dioxane	0.0009	0.0009#	0.00	144	0.00
56	PT	Bromodiclrma	0.3056	0.2822	7.66	111	0.00
57	T	2Nitropropane	0.0301	0.0301	0.00	125	0.00
58	T	2CLEVE	0.0324	0.0247#	23.77#	96	0.00
59	PT	c13dicloproe	0.3280	0.3247	1.01	115	0.00
60	PT	4Meth2Pentan	0.1634	0.1592	2.57	121	0.00
61	S	SURRd8Tolule	0.9986	1.0212	-2.26	116	0.00
62	PT	Toluene	0.6252	0.5880	5.95	110	0.00
63	PT	t13Dicloprop	0.2382	0.2431	-2.06	121	0.00
64	T	ethylmethacrylate	0.1882	0.1891	-0.48	121	0.00
65	PT	112Triclotha	0.1465	0.1398	4.57	121	0.00
66	PT	Tetrachlorte	0.3058	0.2986	2.35	115	0.00
67	T	13Diclorpropa	0.2889	0.2787	3.53	120	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	119	0.00
69	PT	2Hexanone	0.1427	0.1319	7.57	121	0.00
70	PT	Clorodibrmta	0.2585	0.2485	3.87	117	0.00
71	PT	12Dibrometha	0.2060	0.1894	8.06	117	0.00
72	PT	Chlorobenzen	0.8985	0.8171	9.06	112	0.00
73	T	1Clhexane	0.3776	0.3673	2.73	122	0.00
74	T	1112Tetclota	0.3036	0.2847	6.23	115	0.00
75	PT	Ethylbenzene	1.4092	1.3250	5.98	112	0.00
76	PT	m p-Xylene	0.5657	0.5360	5.25	112	0.00
77	PT	o-Xylene	0.5563	0.5105	8.23	109	0.00
78	PT	Styrene	0.8961	0.8526	4.85	110	0.00
79	PT	Bromoform	0.1558	0.1272	18.36	109	0.00
80	PT	Isopropylben	1.3636	1.3243	2.88	114	0.00
81	T	cyclohexanone	0.0048	0.0045#	6.25	143	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	127	0.00
83	S	SURR4BrFBenz	0.7750	0.7759	-0.12	129	0.00
84	T	Bromobenzene	0.6921	0.5875	15.11	111	0.00
85	PT	1122Tetrclta	0.4567	0.3729	18.35	121	0.00
86	T	123Triclproa	0.3903	0.3971	-1.74	152	0.00
87	T	14dichloro2butene	0.0830	0.0711	14.34	123	0.00
88	T	n-Propylbenz	2.8522	2.5905	9.18	116	0.00
89	T	2chlorotolue	1.7345	1.4765	14.87	112	0.00
90	T	4chlorotolue	1.9444	1.6922	12.97	111	0.00
91	T	135Trimebenz	2.0246	1.8393	9.15	113	0.00
92	T	tbutylbenzen	1.8164	1.6287	10.33	116	0.00
93	T	124Trimetben	2.0782	1.8347	11.72	112	0.00
94	T	sbutylbenzen	2.5902	2.3841	7.96	116	0.00
95	PT	13Diclorbenz	1.3039	1.1074	15.07	109	0.00
96	T	pIsopropylto	2.2046	2.0360	7.65	116	0.00
97	PT	14dichlorobe	1.2943	1.1058	14.56	112	0.00
98	PT	12dichlorobe	1.2234	1.0149	17.04	114	0.00
99	T	nButylbenzen	1.8936	1.7230	9.01	119	0.00
100	PT	12dibromo3cl	0.0729	0.0612	16.05	121	0.00
101	T	135Trichlorobenzene	0.8986	0.7687	14.46	111	0.00
102	PT	124Trichlobe	0.7395	0.6296	14.86	114	0.00
103	T	Hexachlorobu	0.4240	0.3673	13.37	115	0.00
104	T	Naphthalene	1.0970	0.9720	11.39	120	0.00
105	T	123Trichlben	0.6424	0.5580	13.14	118	0.00

(#) = Out of Range SPCC's out = 3 CCC's out = 0

LW040917.M Wed Apr 26 09:36:45 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2117\CCV-LCS1.D Vial: 3
Acq On : 21 Apr 2017 8:43 Operator: RLD-AGK
Sample : 136714,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 21 09:07:07 2017

Quant Method : C:\INSTARCH\METHODS\LW040917.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW040917.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	114	0.00
2	PT	Dichlorodi	4.0000	3.6815	7.96	115	0.00
3	PT	Chloromethan	4.0000	3.5692	10.77	104	0.00
4	PT	VinylChlorid	4.0000	3.8595	3.51	110	0.00
5	PT	Bromomethane	4.0000	4.2832	-7.08	125	0.00
6	PT	Chloroethane	4.0000	3.9569	1.08	110	0.00
7	T	Dichloroflmethane	4.0000	3.8179	4.55	109	0.00
8	PT	Trichlorofma	4.0000	4.2990	-7.48	120	0.00
9	T	Ethylether	4.0000	4.0621	-1.55	112	0.00
10	T	dichlorotfluoroethan	4.0000	3.9195	2.01	116	0.00
11	T	propyleneoxide	40.0000	39.5796	1.05	123	0.00
12	T	Acrolein	20.0000	17.5769	12.12	112	0.00
13	PT	11dichlorthe	4.0000	3.8848	2.88	114	0.00
14	PT	Trichlorotfluoroeth	8.0000	8.1276	-1.59	126	0.00
15	PT	Acetone	40.0000	39.2388	1.90	118	0.00
16	T	Iodomethane	8.0000	8.7438	-9.30	114	0.00
17	PT	Carbon Dislf	8.0000	7.5730	5.34	112	0.00
18	T	allylchloride	8.0000	7.6190	4.76	106	0.00
19	PT	methylacetate	4.0000	6.5670	-64.18#	205	0.00
20	PT	Methylchlorid	4.0000	3.8090	4.77	108	0.00
21	T	tbutylalcohol	200.0000	193.1771	3.41	131	0.00
22	T	Acrylonitrile	20.0000	18.6951	6.52	119	0.00
23	PT	t12dichlorte	4.0000	3.7786	5.54	113	0.00
24	PT	MtBE	4.0000	3.8772	3.07	117	0.00
25	T	Hexane	8.0000	9.1713	-14.64	135	0.00
26	PT	11dichlorota	4.0000	3.7484	6.29	107	0.00
27	T	Vinylacetate	40.0000	39.6632	0.84	107	0.00
28	T	chloroprene	8.0000	8.0373	-0.47	115	0.00
29	T	Diisopether	4.0000	3.7744	5.64	108	0.00
30	T	ETBE	4.0000	3.8294	4.26	110	0.00
31	T	22dichloropr	4.0000	3.9458	1.35	118	0.00
32	PT	c12dichlorte	4.0000	3.6497	8.76	107	0.00
33	PT	2Butanone	40.0000	37.9827	5.04	114	0.00
34	T	propionitrile	40.0000	36.6193	8.45	120	0.00
35	T	Ethylacetate	20.0000	20.2274	-1.14	126	0.00
36	T	methacrylonitrile	8.0000	7.3706	7.87	120	0.00
37	T	Bromochlorma	4.0000	3.7220	6.95	109	0.00
38	T	Tetrahydofur	40.0000	36.4949	8.76	122	0.00
39	PT	Chloroform	4.0000	3.6490	8.77	110	0.00
40	PT	111trichlota	4.0000	3.8682	3.30	115	0.00
41	S	SURRDibrflma	4.0000	4.0622	-1.55	117	0.00
42	PT	Cyclohexane	4.0000	3.9938	0.16	121	0.00
43	PT	Carbtetraclo	4.0000	4.3016	-7.54	122	0.00
44	T	11dicloprope	4.0000	4.1042	-2.60	116	0.00
45	S	SURR12DCAd4	4.0000	3.8215	4.46	116	0.00
46	PT	Benzene	4.0000	3.7269	6.83	108	0.00
47	PT	12dichlorota	4.0000	3.8244	4.39	118	0.00
48	T	TAME	4.0000	3.8668	3.33	114	0.00

49	PT	trichloroete	4.0000	3.7989	5.03	110	0.00
50	PT	methylcyclohexane	4.0000	4.1869	-4.67	125	0.00
51	PT	12dicloropra	4.0000	3.7940	5.15	110	0.00
52	T	23Dicl1propene	4.0000	3.7458	6.35	109	0.00
53	T	Dibromometha	4.0000	4.0719	-1.80	116	0.00
54	T	methylmethacrylate	4.0000	3.9805	0.49	121	0.00
55	T	14dioxane	200.0000	236.7931	-18.40	144	0.00
56	PT	Bromodiclrma	4.0000	3.6933	7.67	111	0.00
57	T	2Nitropropane	40.0000	40.0735	-0.18	125	0.00
58	T	2CLEVE	20.0000	15.2469	23.77#	96	0.00
59	PT	c13dicloproe	4.0000	3.9601	1.00	115	0.00
60	PT	4Meth2Pentan	40.0000	38.9784	2.55	121	0.00
61	S	SURRd8Tolule	4.0000	4.0904	-2.26	116	0.00
62	PT	Toluene	4.0000	3.7616	5.96	110	0.00
63	PT	t13Dicloprop	4.0000	4.0819	-2.05	121	0.00
64	T	ethylmethacrylate	8.0000	8.0389	-0.49	121	0.00
65	PT	112Triclotha	4.0000	3.8176	4.56	121	0.00
66	PT	Tetrachlorte	4.0000	3.9057	2.36	115	0.00
67	T	13Diclorpropa	4.0000	3.8586	3.53	120	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	119	0.00
69	PT	2Hexanone	40.0000	36.9952	7.51	121	0.00
70	PT	Clorodibrmta	4.0000	3.8453	3.87	117	0.00
71	PT	12Dibrometha	4.0000	3.6772	8.07	117	0.00
72	PT	Chlorobenzen	4.0000	3.6376	9.06	112	0.00
73	T	1Clhexane	4.0000	3.8901	2.75	122	0.00
74	T	1112Tetclota	4.0000	3.7501	6.25	115	0.00
75	PT	Ethylbenzene	4.0000	3.7611	5.97	112	0.00
76	PT	m p-Xylene	8.0000	7.5794	5.26	112	0.00
77	PT	o-Xylene	4.0000	3.6710	8.23	109	0.00
78	PT	Styrene	4.0000	3.8059	4.85	110	0.00
79	PT	Bromoform	4.0000	3.2657	18.36	109	0.00
80	PT	Isopropylben	4.0000	3.8847	2.88	114	0.00
81	T	cyclohexanone	80.0000	82.8840	-3.61	143	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	127	0.00
83	S	SURR4BrFBenz	4.0000	4.0046	-0.11	129	0.00
84	T	Bromobenzene	4.0000	3.3952	15.12	111	0.00
85	PT	1122Tetrclta	4.0000	3.2662	18.34	121	0.00
86	T	123Triclproa	4.0000	4.0702	-1.75	152	0.00
87	T	14dichloro2butene	4.0000	3.4250	14.38	123	0.00
88	T	n-Propylbenz	4.0000	3.6330	9.18	116	0.00
89	T	2chlorotolue	4.0000	3.4050	14.88	112	0.00
90	T	4chlorotolue	4.0000	3.4813	12.97	111	0.00
91	T	135Trimebenz	4.0000	3.6339	9.15	113	0.00
92	T	tbutylbenzen	4.0000	3.5866	10.34	116	0.00
93	T	124Trimetben	4.0000	3.5313	11.72	112	0.00
94	T	sbutylbenzen	4.0000	3.6817	7.96	116	0.00
95	PT	13Diclorbenz	4.0000	3.3970	15.08	109	0.00
96	T	pIsopropylto	4.0000	3.6941	7.65	116	0.00
97	PT	14dichlorobe	4.0000	3.4173	14.57	112	0.00
98	PT	12dichlorobe	4.0000	3.3182	17.04	114	0.00
99	T	nButylbenzen	4.0000	3.6396	9.01	119	0.00
100	PT	12dibromo3cl	4.0000	3.3560	16.10	121	0.00
101	T	135Trichlorobenzene	4.0000	3.4215	14.46	111	0.00
102	PT	124Trichlobe	4.0000	3.4057	14.86	114	0.00
103	T	Hexachlorobu	4.0000	3.4651	13.37	115	0.00
104	T	Naphthalene	4.0000	3.5441	11.40	120	0.00
105	T	123Trichlben	4.0000	3.4746	13.13	118	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW040917.M Wed Apr 26 09:37:06 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\CCV-LCS1.D Vial: 3
Acq On : 21 Apr 2017 8:43 Operator: RLD-AGK
Sample : 136714,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 21 09:07:07 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:03 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1391364	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1155796	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	712837	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	384861	4.062	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102	%		
45) SURR12DCAd4	7.35	102	73536	3.822	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 96	%		
61) SURRd8Tolule	9.79	98	1420843	4.090	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102	%		
83) SURR4BrFBenz	13.35	95	553078	4.005	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	420749	3.6815	ug/L	98
3) Chloromethan	2.15	50	483044	3.5692	ug/L	98
4) VinylChlorid	2.28	62	437509	3.8595	ug/L	99
5) Bromomethane	2.76	94	173402	4.2832	ug/L	100
6) Chloroethane	2.92	64	238406	3.9569	ug/L	99
7) Dichloroflmethane	3.24	67	579218	3.8179	ug/L	98
8) Trichlorofma	3.30	101	519138	4.2990	ug/L	97
9) Ethylether	3.75	59	220068	4.0621	ug/L	97
10) dichlorotfluoroethan	3.78	67	352533	3.9195	ug/L	98
11) propyleneoxide	3.82	58	184732	39.5796	ug/L	98
12) Acrolein	3.91	56	180784	17.5769	ug/L	98
13) 11dichlorthe	4.03	96	286701	3.8848	ug/L	100
14) Trichlorotfluoroeth	4.06	101	571072	8.1276	ug/L	99
15) Acetone	4.13	43	613037	39.2388	ug/L	99
16) Iodomethane	4.23	142	497614	8.7438	ug/L	99
17) Carbon Dislf	4.30	76	1255460	7.5730	ug/L	99
18) allylchloride	4.54	41	1081481	7.6190	ug/L	97
19) methylacetate	4.59	74	49290	6.5670	ug/L	84
20) Methylchlorid	4.70	84	328428	3.8090	ug/L	98
21) tbutylalcohol	4.90	59	759045	193.1771	ug/L	97
22) Acrylonitrile	5.03	53	341559	18.6951	ug/L	99
23) t12dichlorte	5.07	96	311245	3.7786	ug/L	96
24) MtBE	5.08	73	596097	3.8772	ug/L	99
25) Hexane	5.44	57	1038032	9.1713	ug/L	99
26) 11dichlorota	5.61	63	626131	3.7484	ug/L	100
27) Vinylacetate	5.69	43	4415453	39.6632	ug/L	99
28) chloroprene	5.72	53	1206154	8.0373	ug/L	99
29) Diisopether	5.72	45	1250942	3.7744	ug/L	99
30) ETBE	6.18	59	833863	3.8294	ug/L	99
31) 22dichloropr	6.34	77	404309	3.9458	ug/L	99
32) c12dichlorte	6.34	96	350762	3.6497	ug/L	96
33) 2Butanone	6.37	72	174589	37.9827	ug/L	98
34) propionitrile	6.43	54	258171	36.6193	ug/L	97
35) Ethylacetate	6.46	88	33638	20.2274	ug/L	98
36) methacrylonitrile	6.62	67	142832	7.3706	ug/L	98
37) Bromochlorma	6.63	128	152021	3.7220	ug/L	94
38) Tetrahydofur	6.70	42	645608	36.4949	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\CCV-LCS1.D Vial: 3
Acq On : 21 Apr 2017 8:43 Operator: RLD-AGK
Sample : 136714,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 21 09:07:07 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:03 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	586739	3.6490	ug/L	98
40)	111trichlota	6.97	97	497237	3.8682	ug/L	99
42)	Cyclohexane	7.04	56	576420	3.9938	ug/L	99
43)	Carbtetraclo	7.18	119	414143	4.3016	ug/L	99
44)	11dicloprope	7.18	110	167923	4.1042	ug/L	100
46)	Benzene	7.43	78	1283168	3.7269	ug/L	99
47)	12dichlorota	7.44	62	406961	3.8244	ug/L	97
48)	TAME	7.58	73	615743	3.8668	ug/L	99
49)	trichloroete	8.23	95	330649	3.7989	ug/L	100
50)	methylcyclohexane	8.48	83	543382	4.1869	ug/L	98
51)	12dicloropra	8.51	63	380025	3.7940	ug/L	94
52)	23Dicl1propene	8.57	75	464254	3.7458	ug/L	98
53)	Dibromometha	8.66	93	170228	4.0719	ug/L	94
54)	methylmethacrylate	8.67	69	124214	3.9805	ug/L	98
55)	14dioxane	8.69	88	62973	236.7931	ug/L	97
56)	Bromodiclrma	8.86	83	392631	3.6933	ug/L	98
57)	2Nitropropane	9.14	43	419309	40.0735	ug/L	97
58)	2CLEVE	9.25	63	171987	15.2469	ug/L	98
59)	c13dicloproe	9.43	75	451844	3.9601	ug/L	99
60)	4Meth2Pentan	9.63	43	2215457	38.9784	ug/L	99
62)	Toluene	9.87	92	818080	3.7616	ug/L	100
63)	t13Dicloprop	10.15	75	338235	4.0819	ug/L	100
64)	ethylmethacrylate	10.28	69	526309	8.0389	ug/L	97
65)	112Triclotha	10.39	83	194479	3.8176	ug/L	98
66)	Tetrachlorte	10.60	166	415494	3.9057	ug/L	98
67)	13Diclorpropa	10.61	76	387781	3.8586	ug/L	99
69)	2Hexanone	10.73	43	1524894	36.9952	ug/L	98
70)	Clorodibrmta	10.92	129	287231	3.8453	ug/L	99
71)	12Dibrometha	11.08	107	218864	3.6772	ug/L	96
72)	Chlorobenzen	11.75	112	944400	3.6376	ug/L	98
73)	1Clhexane	11.71	91	424473	3.8901	ug/L	98
74)	1112Tetclota	11.86	131	329020	3.7501	ug/L	99
75)	Ethylbenzene	11.90	91	1531468	3.7611	ug/L	99
76)	m p-Xylene	12.06	106	1238907	7.5794	ug/L	100
77)	o-Xylene	12.62	106	590058	3.6710	ug/L	98
78)	Styrene	12.63	104	985421	3.8059	ug/L	99
79)	Bromoform	12.88	173	147026	3.2657	ug/L	95
80)	Isopropylben	13.14	105	1530619	3.8847	ug/L	99
81)	cyclohexanone	13.25	55	103138	82.8840	ug/L	98
84)	Bromobenzene	13.56	156	418759	3.3952	ug/L	98
85)	1122Tetrclta	13.55	83	265824	3.2662	ug/L	100
86)	123Triclproa	13.61	75	283097	4.0702	ug/L	90
87)	14dichloro2butene	13.64	53	50653	3.4250	ug/L	97
88)	n-Propylbenz	13.72	91	1846638	3.6330	ug/L	99
89)	2chlorotolue	13.84	91	1052535	3.4050	ug/L	98
90)	4chlorotolue	14.00	91	1206290	3.4813	ug/L	99
91)	135Trimebenz	13.98	105	1311142	3.6339	ug/L	100
92)	tbutylbenzen	14.45	119	1160984	3.5866	ug/L	99
93)	124Trimetben	14.52	105	1307853	3.5313	ug/L	98
94)	sbutylbenzen	14.77	105	1699477	3.6817	ug/L	100
95)	13Diclorbenz	14.93	146	789369	3.3970	ug/L	97
96)	pIsopropylto	14.98	119	1451343	3.6941	ug/L	99
97)	14dichlorobe	15.05	146	788238	3.4173	ug/L	99
98)	12dichlorobe	15.60	146	723441	3.3182	ug/L	99
99)	nButylbenzen	15.58	91	1228185	3.6396	ug/L	99
100)	12dibromo3cl	16.70	157	43623	3.3560	ug/L	96
101)	135Trichlorobenzene	17.00	180	547949	3.4215	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\CCV-LCS1.D Vial: 3
Acq On : 21 Apr 2017 8:43 Operator: RLD-AGK
Sample : 136714,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 21 09:07:07 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:03 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	448827	3.4057	ug/L	98
103) Hexachlorobu	18.05	225	261806	3.4651	ug/L	99
104) Naphthalene	18.13	128	692863	3.5441	ug/L	99
105) 123Trichlben	18.44	180	397762	3.4746	ug/L	99

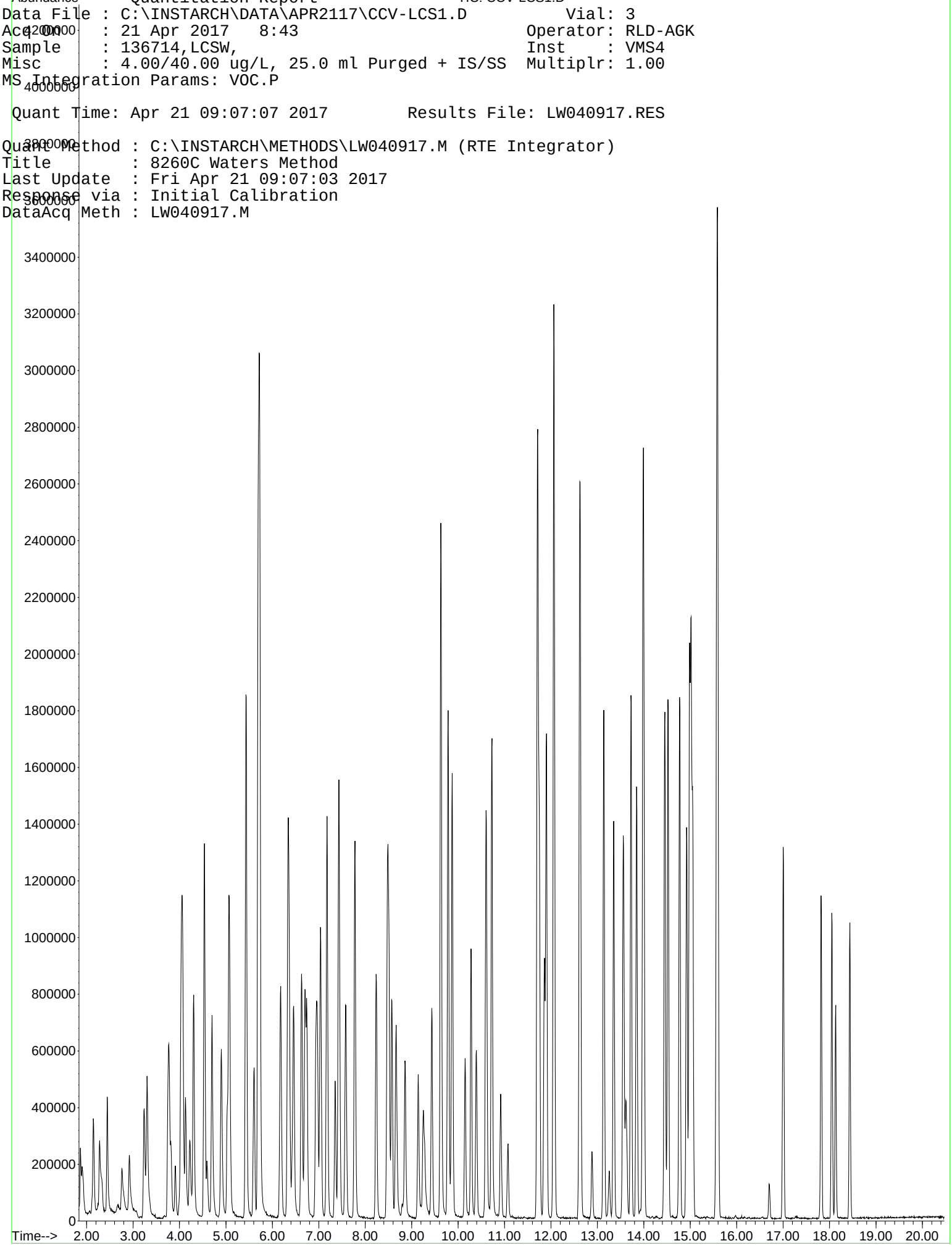
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: CCV-LCS1.D)

Data File : C:\INSTARCH\DATA\APR2117\CCV-LCS1.D Vial: 3
Acq On : 21 Apr 2017 8:43 Operator: RLD-AGK
Sample : 136714,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 21 09:07:07 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:03 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2117\LCSD-CVF1.D Vial: 26
Acq On : 21 Apr 2017 19:34 Operator: RLD-AGK
Sample : 136990,LCSDW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 21 19:54:54 2017

Quant Method : C:\INSTARCH\METHODS\LW040917.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW040917.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	119	0.00
2	PT	Dichlorodi	0.3286	0.3347	-1.86	132	0.00
3	PT	Chloromethan	0.3891	0.3776	2.96	117	0.00
4	PT	VinylChlorid	0.3259	0.3481	-6.81	126	0.00
5	PT	Bromomethane	0.1164	0.1396	-19.93	145	0.00
6	PT	Chloroethane	0.1732	0.1814	-4.73	122	0.00
7	T	Dichloroflmethane	0.4361	0.4410	-1.12	120	0.00
8	PT	Trichlorofma	0.3472	0.3879	-11.72	130	0.00
9	T	Ethylether	0.1558	0.1530	1.80	113	0.00
10	T	dichlorotfluoroethan	0.2586	0.2737	-5.84	131	0.00
11	T	propyleneoxide	0.0134	0.0128#	4.48	123	0.00
12	T	Acrolein	0.0296	0.0234#	20.95	105	0.00
13	PT	11dichlorthe	0.2122	0.2219	-4.57	128	0.00
14	PT	Trichlorotfluoroeth	0.2020	0.2180	-7.92	139	0.00
15	PT	Acetone	0.0496	0.0436#	12.10	121	0.00
16	T	Iodomethane	0.1446	0.2017	-39.49	134	0.00
17	PT	Carbon Dislf	0.4766	0.4680	1.80	121	0.00
18	T	allylchloride	0.4081	0.3966	2.82	113	0.00
19	PT	methylacetate	0.0216	0.0328#	-51.85#	197	0.00
20	PT	Methylchlorid	0.3323	0.2305	30.63	109	0.00
21	T	tbutylalcohol	0.0116	0.0113#	2.59	141	0.00
22	T	Acrylonitrile	0.0525	0.0479	8.76	120	0.00
23	PT	t12dichlorte	0.2368	0.2309	2.49	122	0.00
24	PT	MtBE	0.4420	0.4288	2.99	122	0.00
25	T	Hexane	0.3254	0.3803	-16.87	143	0.00
26	PT	11dichlorota	0.4802	0.4706	2.00	116	0.00
27	T	Vinylacetate	0.3200	0.3121	2.47	109	0.00
28	T	chloroprene	0.4314	0.4567	-5.86	126	0.00
29	T	Diisopether	0.9528	0.9225	3.18	115	0.00
30	T	ETBE	0.6260	0.6068	3.07	116	0.00
31	T	22dichloropr	0.2946	0.2935	0.37	124	0.00
32	PT	c12dichlorte	0.2763	0.2664	3.58	118	0.00
33	PT	2Butanone	0.0132	0.0126#	4.55	120	0.00
34	T	propionitrile	0.0203	0.0185#	8.87	124	0.00
35	T	Ethylacetate	0.0044	0.0042#	4.55	114	0.00
36	T	methacrylonitrile	0.0557	0.0535	3.95	130	0.00
37	T	Bromochlorma	0.1174	0.1145	2.47	119	0.00
38	T	Tetrahydofur	0.0509	0.0453	11.00	124	0.00
39	PT	Chloroform	0.4623	0.4310	6.77	117	0.00
40	PT	111trichlota	0.3695	0.3783	-2.38	127	0.00
41	S	SURRDibrflma	0.2724	0.2678	1.69	117	0.00
42	PT	Cyclohexane	0.4149	0.4464	-7.59	135	0.00
43	PT	Carbtetraclo	0.2768	0.3174	-14.67	135	0.00
44	T	11dicloprope	0.1176	0.1257	-6.89	126	0.00
45	S	SURR12DCAd4	0.0553	0.0535	3.25	122	0.00
46	PT	Benzene	0.9898	0.9581	3.20	116	0.00
47	PT	12dichlorota	0.3059	0.2907	4.97	122	0.00
48	T	TAME	0.4578	0.4562	0.35	122	0.00

49	PT	trichloroete	0.2502	0.2484	0.72	120	0.00
50	PT	methylcyclohexane	0.3731	0.4145	-11.10	138	0.00
51	PT	12dicloropra	0.2880	0.2772	3.75	116	0.00
52	T	23Dicl1propene	0.3563	0.3469	2.64	118	0.00
53	T	Dibromometha	0.1202	0.1209	-0.58	120	0.00
54	T	methylmethacrylate	0.0897	0.0886	1.23	125	0.00
55	T	14dioxane	0.0009	0.0012#	-33.33	196	0.00
56	PT	Bromodiclrma	0.3056	0.2904	4.97	119	0.00
57	T	2Nitropropane	0.0301	0.0281#	6.64	121	0.00
58	T	2CLEVE	0.0324	0.0278#	14.20	112	0.00
59	PT	c13dicloproe	0.3280	0.3221	1.80	119	0.00
60	PT	4Meth2Pentan	0.1634	0.1539	5.81	122	0.00
61	S	SURRd8Tolule	0.9986	1.0081	-0.95	119	0.00
62	PT	Toluene	0.6252	0.6055	3.15	118	0.00
63	PT	t13Dicloprop	0.2382	0.2402	-0.84	125	0.00
64	T	ethylmethacrylate	0.1882	0.1876	0.32	125	0.00
65	PT	112Triclotha	0.1465	0.1382	5.67	124	0.00
66	PT	Tetrachlorte	0.3058	0.3189	-4.28	128	0.00
67	T	13Diclorpropa	0.2889	0.2776	3.91	124	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	121	0.00
69	PT	2Hexanone	0.1427	0.1304	8.62	121	0.00
70	PT	Clorodibrmta	0.2585	0.2466	4.60	118	0.00
71	PT	12Dibrometha	0.2060	0.1937	5.97	121	0.00
72	PT	Chlorobenzen	0.8985	0.8596	4.33	120	0.00
73	T	1Clhexane	0.3776	0.3949	-4.58	133	0.00
74	T	1112Tetclota	0.3036	0.2909	4.18	120	0.00
75	PT	Ethylbenzene	1.4092	1.4160	-0.48	121	0.00
76	PT	m p-Xylene	0.5657	0.5756	-1.75	122	0.00
77	PT	o-Xylene	0.5563	0.5432	2.35	117	0.00
78	PT	Styrene	0.8961	0.8982	-0.23	118	0.00
79	PT	Bromoform	0.1558	0.1287	17.39	112	0.00
80	PT	Isopropylben	1.3636	1.4173	-3.94	124	0.00
81	T	cyclohexanone	0.0048	0.0050#	-4.17	164	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	123	0.00
83	S	SURR4BrFBenz	0.7750	0.7704	0.59	124	0.00
84	T	Bromobenzene	0.6921	0.6421	7.22	118	0.00
85	PT	1122Tetrclta	0.4567	0.3952	13.47	124	0.00
86	T	123Triclproa	0.3903	0.3305	15.32	123	0.00
87	T	14dichloro2butene	0.0830	0.0661	20.36	111	0.00
88	T	n-Propylbenz	2.8522	2.9007	-1.70	126	0.00
89	T	2chlorotolue	1.7345	1.6693	3.76	122	0.00
90	T	4chlorotolue	1.9444	1.8921	2.69	120	0.00
91	T	135Trimebenz	2.0246	2.0466	-1.09	122	0.00
92	T	tbutylbenzen	1.8164	1.8355	-1.05	126	0.00
93	T	124Trimetben	2.0782	2.0417	1.76	120	0.00
94	T	sbutylbenzen	2.5902	2.7047	-4.42	128	0.00
95	PT	13Diclorbenz	1.3039	1.2288	5.76	118	0.00
96	T	pIsopropylto	2.2046	2.3088	-4.73	127	0.00
97	PT	14dichlorobe	1.2943	1.2189	5.83	120	0.00
98	PT	12dichlorobe	1.2234	1.1266	7.91	122	0.00
99	T	nButylbenzen	1.8936	1.9376	-2.32	130	0.00
100	PT	12dibromo3cl	0.0729	0.0644	11.66	124	0.00
101	T	135Trichlorobenzene	0.8986	0.8818	1.87	124	0.00
102	PT	124Trichlobe	0.7395	0.7119	3.73	125	0.00
103	T	Hexachlorobu	0.4240	0.4044	4.62	123	0.00
104	T	Naphthalene	1.0970	1.0490	4.38	126	0.00
105	T	123Trichlben	0.6424	0.6144	4.36	126	0.00

(#) = Out of Range SPCC's out = 3 CCC's out = 0

LW040917.M Wed Apr 26 09:38:35 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2117\LCSD-CVF1.D Vial: 26
Acq On : 21 Apr 2017 19:34 Operator: RLD-AGK
Sample : 136990,LCSDW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 21 19:54:54 2017

Quant Method : C:\INSTARCH\METHODS\LW040917.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW040917.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	119	0.00
2	PT	Dichlorodi	4.0000	4.0751	-1.88	132	0.00
3	PT	Chloromethan	4.0000	3.8821	2.95	117	0.00
4	PT	VinylChlorid	4.0000	4.2725	-6.81	126	0.00
5	PT	Bromomethane	4.0000	4.7963	-19.91	145	0.00
6	PT	Chloroethane	4.0000	4.1886	-4.72	122	0.00
7	T	Dichloroflmethane	4.0000	4.0449	-1.12	120	0.00
8	PT	Trichlorofma	4.0000	4.4697	-11.74	130	0.00
9	T	Ethylether	4.0000	3.9296	1.76	113	0.00
10	T	dichlorotfluoroethan	4.0000	4.2343	-5.86	131	0.00
11	T	propyleneoxide	40.0000	38.2114	4.47	123	0.00
12	T	Acrolein	20.0000	15.8307	20.85	105	0.00
13	PT	11dichlorthe	4.0000	4.1835	-4.59	128	0.00
14	PT	Trichlorotfluoroeth	8.0000	8.6320	-7.90	139	0.00
15	PT	Acetone	40.0000	38.7667	3.08	121	0.00
16	T	Iodomethane	8.0000	9.7043	-21.30	134	0.00
17	PT	Carbon Dislf	8.0000	7.8553	1.81	121	0.00
18	T	allylchloride	8.0000	7.7758	2.80	113	0.00
19	PT	methylacetate	4.0000	6.0715	-51.79#	197	0.00
20	PT	Methylchlorid	4.0000	3.7080	7.30	109	0.00
21	T	tbutylalcohol	200.0000	200.0889	-0.04	141	0.00
22	T	Acrylonitrile	20.0000	18.2450	8.77	120	0.00
23	PT	t12dichlorte	4.0000	3.9005	2.49	122	0.00
24	PT	MtBE	4.0000	3.8805	2.99	122	0.00
25	T	Hexane	8.0000	9.3508	-16.88	143	0.00
26	PT	11dichlorota	4.0000	3.9201	2.00	116	0.00
27	T	Vinylacetate	40.0000	39.0134	2.47	109	0.00
28	T	chloroprene	8.0000	8.4688	-5.86	126	0.00
29	T	Diisopether	4.0000	3.8727	3.18	115	0.00
30	T	ETBE	4.0000	3.8773	3.07	116	0.00
31	T	22dichloropr	4.0000	3.9860	0.35	124	0.00
32	PT	c12dichlorte	4.0000	3.8567	3.58	118	0.00
33	PT	2Butanone	40.0000	38.2572	4.36	120	0.00
34	T	propionitrile	40.0000	36.5541	8.61	124	0.00
35	T	Ethylacetate	20.0000	17.6203	11.90	114	0.00
36	T	methacrylonitrile	8.0000	7.6762	4.05	130	0.00
37	T	Bromochlorma	4.0000	3.9009	2.48	119	0.00
38	T	Tetrahydofur	40.0000	35.6653	10.84	124	0.00
39	PT	Chloroform	4.0000	3.7296	6.76	117	0.00
40	PT	111trichlota	4.0000	4.0950	-2.37	127	0.00
41	S	SURRDibrflma	4.0000	3.9330	1.68	117	0.00
42	PT	Cyclohexane	4.0000	4.3031	-7.58	135	0.00
43	PT	Carbtetraclo	4.0000	4.5869	-14.67	135	0.00
44	T	11dicloprope	4.0000	4.2762	-6.91	126	0.00
45	S	SURR12DCAd4	4.0000	3.8682	3.30	122	0.00
46	PT	Benzene	4.0000	3.8718	3.21	116	0.00
47	PT	12dichlorota	4.0000	3.8004	4.99	122	0.00
48	T	TAME	4.0000	3.9862	0.34	122	0.00

49	PT	trichloroete	4.0000	3.9707	0.73	120	0.00
50	PT	methylcyclohexane	4.0000	4.4433	-11.08	138	0.00
51	PT	12dicloropra	4.0000	3.8509	3.73	116	0.00
52	T	23Dicl1propene	4.0000	3.8939	2.65	118	0.00
53	T	Dibromometha	4.0000	4.0240	-0.60	120	0.00
54	T	methylmethacrylate	4.0000	3.9495	1.26	125	0.00
55	T	14dioxane	200.0000	326.9853	-63.49#	196	0.00
56	PT	Bromodiclrma	4.0000	3.8006	4.98	119	0.00
57	T	2Nitropropane	40.0000	37.3077	6.73	121	0.00
58	T	2CLEVE	20.0000	17.1673	14.16	112	0.00
59	PT	c13dicloproe	4.0000	3.9277	1.81	119	0.00
60	PT	4Meth2Pentan	40.0000	37.6655	5.84	122	0.00
61	S	SURRd8Tolule	4.0000	4.0378	-0.94	119	0.00
62	PT	Toluene	4.0000	3.8734	3.16	118	0.00
63	PT	t13Dicloprop	4.0000	4.0338	-0.85	125	0.00
64	T	ethylmethacrylate	8.0000	7.9720	0.35	125	0.00
65	PT	112Triclotha	4.0000	3.7736	5.66	124	0.00
66	PT	Tetrachlorte	4.0000	4.1705	-4.26	128	0.00
67	T	13Diclorpropa	4.0000	3.8439	3.90	124	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	121	0.00
69	PT	2Hexanone	40.0000	36.5580	8.61	121	0.00
70	PT	Clorodibrmta	4.0000	3.8164	4.59	118	0.00
71	PT	12Dibrometha	4.0000	3.7610	5.97	121	0.00
72	PT	Chlorobenzen	4.0000	3.8270	4.33	120	0.00
73	T	1Clhexane	4.0000	4.1833	-4.58	133	0.00
74	T	1112Tetclota	4.0000	3.8318	4.21	120	0.00
75	PT	Ethylbenzene	4.0000	4.0192	-0.48	121	0.00
76	PT	m p-Xylene	8.0000	8.1400	-1.75	122	0.00
77	PT	o-Xylene	4.0000	3.9057	2.36	117	0.00
78	PT	Styrene	4.0000	4.0096	-0.24	118	0.00
79	PT	Bromoform	4.0000	3.3029	17.43	112	0.00
80	PT	Isopropylben	4.0000	4.1575	-3.94	124	0.00
81	T	cyclohexanone	80.0000	94.0958	-17.62	164	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	123	0.00
83	S	SURR4BrFBenz	4.0000	3.9762	0.60	124	0.00
84	T	Bromobenzene	4.0000	3.7109	7.23	118	0.00
85	PT	1122Tetrclta	4.0000	3.4614	13.47	124	0.00
86	T	123Triclproa	4.0000	3.3873	15.32	123	0.00
87	T	14dichloro2butene	4.0000	3.1867	20.33	111	0.00
88	T	n-Propylbenz	4.0000	4.0680	-1.70	126	0.00
89	T	2chlorotolue	4.0000	3.8497	3.76	122	0.00
90	T	4chlorotolue	4.0000	3.8925	2.69	120	0.00
91	T	135Trimebenz	4.0000	4.0434	-1.09	122	0.00
92	T	tbutylbenzen	4.0000	4.0421	-1.05	126	0.00
93	T	124Trimetben	4.0000	3.9298	1.75	120	0.00
94	T	sbutylbenzen	4.0000	4.1768	-4.42	128	0.00
95	PT	13Diclorbenz	4.0000	3.7694	5.76	118	0.00
96	T	pIsopropylto	4.0000	4.1891	-4.73	127	0.00
97	PT	14dichlorobe	4.0000	3.7669	5.83	120	0.00
98	PT	12dichlorobe	4.0000	3.6835	7.91	122	0.00
99	T	nButylbenzen	4.0000	4.0931	-2.33	130	0.00
100	PT	12dibromo3cl	4.0000	3.5327	11.68	124	0.00
101	T	135Trichlorobenzene	4.0000	3.9252	1.87	124	0.00
102	PT	124Trichlobe	4.0000	3.8508	3.73	125	0.00
103	T	Hexachlorobu	4.0000	3.8154	4.62	123	0.00
104	T	Naphthalene	4.0000	3.8248	4.38	126	0.00
105	T	123Trichlben	4.0000	3.8261	4.35	126	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW040917.M Wed Apr 26 09:39:06 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\LCSD-CVF1.D Vial: 26
Acq On : 21 Apr 2017 19:34 Operator: RLD-AGK
Sample : 136990,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 21 19:54:54 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1448016	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1175361	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	691352	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	387792	3.933	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 98 %			
45) SURR12DCAd4	7.36	102	77465	3.868	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 97 %			
61) SURRd8Tolule	9.79	98	1459706	4.038	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101 %			
83) SURR4BrFBenz	13.35	95	532605	3.976	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	484701	4.0751	ug/L	98
3) Chloromethan	2.15	50	546788	3.8821	ug/L	99
4) VinylChlorid	2.28	62	504038	4.2725	ug/L	99
5) Bromomethane	2.76	94	202082	4.7963	ug/L	98
6) Chloroethane	2.92	64	262642	4.1886	ug/L	97
7) Dichloroflmethane	3.24	67	638636	4.0449	ug/L	100
8) Trichlorofma	3.30	101	561726	4.4697	ug/L	93
9) Ethylether	3.75	59	221560	3.9296	ug/L	95
10) dichlorotfluoroethan	3.78	67	396354	4.2343	ug/L	97
11) propyleneoxide	3.82	58	185608	38.2114	ug/L	97
12) Acrolein	3.91	56	169453	15.8307	ug/L	100
13) 11dichlorthe	4.03	96	321315	4.1835	ug/L	99
14) Trichlorotfluoroeth	4.07	101	631214	8.6320	ug/L	98
15) Acetone	4.13	43	630897	38.7667	ug/L	99
16) Iodomethane	4.22	142	584028	9.7043	ug/L	98
17) Carbon Dislf	4.30	76	1355282	7.8553	ug/L	100
18) allylchloride	4.54	41	1148676	7.7758	ug/L	96
19) methylacetate	4.59	74	47426	6.0715	ug/L	94
20) Methylchlorid	4.70	84	333829	3.7080	ug/L	96
21) tbutylalcohol	4.90	59	816932	200.0889	ug/L	99
22) Acrylonitrile	5.03	53	346908	18.2450	ug/L	99
23) t12dichlorte	5.07	96	334371	3.9005	ug/L	97
24) MtBE	5.08	73	620895	3.8805	ug/L	98
25) Hexane	5.44	57	1101442	9.3508	ug/L	99
26) 11dichlorota	5.60	63	681469	3.9201	ug/L	100
27) Vinylacetate	5.69	43	4519947	39.0134	ug/L	99
28) chloroprene	5.72	53	1322658	8.4688	ug/L	99
29) Diisopether	5.72	45	1335788	3.8727	ug/L	98
30) ETBE	6.18	59	878672	3.8773	ug/L	100
31) 22dichloropr	6.34	77	425059	3.9860	ug/L	98
32) c12dichlorte	6.34	96	385743	3.8567	ug/L	99
33) 2Butanone	6.37	72	183011	38.2572	ug/L	99
34) propionitrile	6.43	54	268205	36.5541	ug/L	98
35) Ethylacetate	6.46	88	30507	17.6203	ug/L #	90
36) methacrylonitrile	6.62	67	154811	7.6762	ug/L	91
37) Bromochlorma	6.63	128	165813	3.9009	ug/L	97
38) Tetrahydofur	6.70	42	656621	35.6653	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\LCSD-CVF1.D Vial: 26
Acq On : 21 Apr 2017 19:34 Operator: RLD-AGK
Sample : 136990,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 21 19:54:54 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	624118	3.7296	ug/L	100
40)	111trichlota	6.97	97	547813	4.0950	ug/L	99
42)	Cyclohexane	7.04	56	646345	4.3031	ug/L	97
43)	Carbtetraclo	7.18	119	459599	4.5869	ug/L	99
44)	11dicloprope	7.18	110	182085	4.2762	ug/L	96
46)	Benzene	7.43	78	1387347	3.8718	ug/L	99
47)	12dichlorota	7.45	62	420866	3.8004	ug/L	98
48)	TAME	7.58	73	660593	3.9862	ug/L	99
49)	trichloroete	8.24	95	359677	3.9707	ug/L	99
50)	methylcyclohexane	8.48	83	600131	4.4433	ug/L	99
51)	12dicloropra	8.51	63	401423	3.8509	ug/L	95
52)	23Dicl1propene	8.57	75	502249	3.8939	ug/L	99
53)	Dibromometha	8.65	93	175073	4.0240	ug/L	96
54)	methylmethacrylate	8.67	69	128265	3.9495	ug/L	96
55)	14dioxane	8.69	88	85608	326.9853	ug/L	91
56)	Bromodiclrma	8.86	83	420487	3.8006	ug/L	99
57)	2Nitropropane	9.14	43	406264	37.3077	ug/L	98
58)	2CLEVE	9.24	63	201534	17.1673	ug/L	99
59)	c13dicloproe	9.43	75	466402	3.9277	ug/L	100
60)	4Meth2Pentan	9.63	43	2228003	37.6655	ug/L	99
62)	Toluene	9.88	92	876702	3.8734	ug/L	99
63)	t13Dicloprop	10.15	75	347862	4.0338	ug/L	99
64)	ethylmethacrylate	10.28	69	543183	7.9720	ug/L	97
65)	112Triclotha	10.39	83	200070	3.7736	ug/L	99
66)	Tetrachlorte	10.60	166	461731	4.1705	ug/L	98
67)	13Diclorpropa	10.61	76	402027	3.8439	ug/L	99
69)	2Hexanone	10.72	43	1532380	36.5580	ug/L	99
70)	Clorodibrmta	10.92	129	289901	3.8164	ug/L	98
71)	12Dibrometha	11.07	107	227644	3.7610	ug/L	98
72)	Chlorobenzen	11.75	112	1010398	3.8270	ug/L	98
73)	1Clhexane	11.71	91	464193	4.1833	ug/L	97
74)	1112Tetclota	11.86	131	341883	3.8318	ug/L	98
75)	Ethylbenzene	11.90	91	1664274	4.0192	ug/L	100
76)	m p-Xylene	12.07	106	1353064	8.1400	ug/L	98
77)	o-Xylene	12.62	106	638413	3.9057	ug/L	99
78)	Styrene	12.63	104	1055737	4.0096	ug/L	100
79)	Bromoform	12.88	173	151217	3.3029	ug/L	95
80)	Isopropylben	13.14	105	1665838	4.1575	ug/L	99
81)	cyclohexanone	13.25	55	118023	94.0958	ug/L	97
84)	Bromobenzene	13.56	156	443902	3.7109	ug/L	99
85)	1122Tetrclta	13.55	83	273219	3.4614	ug/L	96
86)	123Triclproa	13.61	75	228496	3.3873	ug/L	97
87)	14dichloro2butene	13.64	53	45708	3.1867	ug/L	99
88)	n-Propylbenz	13.72	91	2005415	4.0680	ug/L	99
89)	2chlorotolue	13.84	91	1154107	3.8497	ug/L	99
90)	4chlorotolue	14.00	91	1308128	3.8925	ug/L	98
91)	135Trimebenz	13.98	105	1414891	4.0434	ug/L	100
92)	tbutylbenzen	14.45	119	1268978	4.0421	ug/L	98
93)	124Trimetben	14.52	105	1411567	3.9298	ug/L	97
94)	sbutylbenzen	14.77	105	1869918	4.1768	ug/L	100
95)	13Diclorbenz	14.92	146	849499	3.7694	ug/L	97
96)	pIsopropylto	14.99	119	1596209	4.1891	ug/L	100
97)	14dichlorobe	15.05	146	842671	3.7669	ug/L	99
98)	12dichlorobe	15.60	146	778887	3.6835	ug/L	99
99)	nButylbenzen	15.58	91	1339574	4.0931	ug/L	100
100)	12dibromo3cl	16.70	157	44536	3.5327	ug/L	98
101)	135Trichlorobenzene	17.01	180	609664	3.9252	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\LCSD-CVF1.D Vial: 26
Acq On : 21 Apr 2017 19:34 Operator: RLD-AGK
Sample : 136990,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 21 19:54:54 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	492190	3.8508	ug/L	98
103) Hexachlorobu	18.05	225	279582	3.8154	ug/L	99
104) Naphthalene	18.13	128	725196	3.8248	ug/L	99
105) 123Trichlben	18.44	180	424801	3.8261	ug/L	99

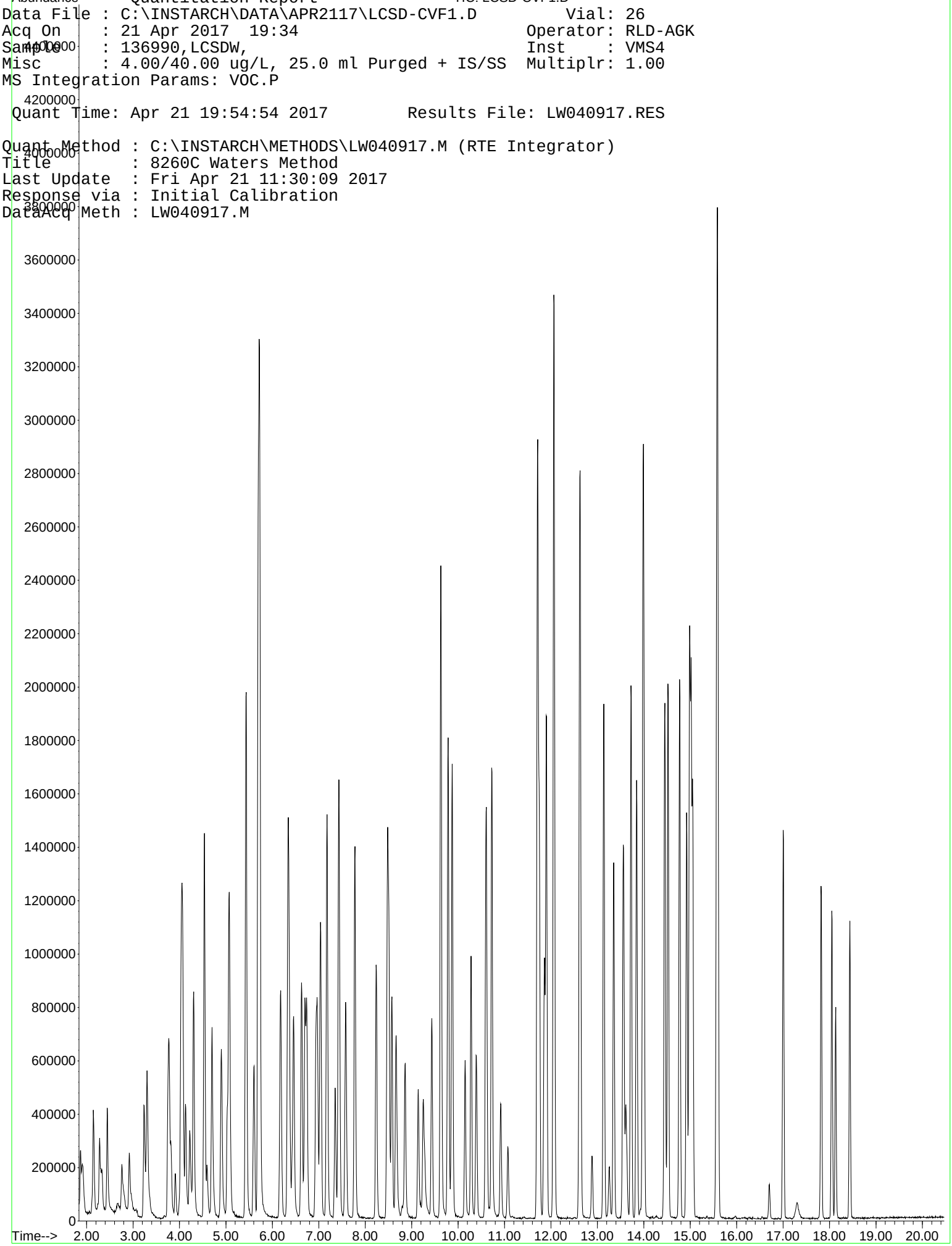
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCSD-CVF1.D

Data File : C:\INSTARCH\DATA\APR2117\LCSD-CVF1.D Vial: 26
Acq On : 21 Apr 2017 19:34 Operator: RLD-AGK
Sample : 136990,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 21 19:54:54 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



BFB

Data File : C:\Instarch\Data\APR2717B\BFB1.D Vial: 1
Acq On : 27 Apr 2017 20:56 Operator: RLD-AGK
Sample : 137136,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS042717.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.758 to 4.778 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	17517	PASS
75	95	30	60	41.3	41326	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.6	6599	PASS
173	174	0.00	2	0.7	603	PASS
174	95	50	100	84.2	84163	PASS
175	174	5	9	8.8	7387	PASS
176	174	95	101	100.6	84704	PASS
177	176	5	9	7.0	5897	PASS

LS042717.M Wed May 03 15:56:22 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2717B\CCV1.D Vial: 2
Acq On : 27 Apr 2017 21:10 Operator: RLD-AGK
Sample : 137136,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 28 08:08:42 2017

Quant Method : C:\INSTARCH\METHODS\LS042717.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS042617.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	82	0.00
2	T	Dichlorodi	0.2301	0.2497	-8.52	83	0.00
3	PT	Chloromethan	0.3096	0.3117	-0.68	82	0.00
4	CT	VinylChlorid	0.2613	0.2603	0.38	79	0.00
5	T	Bromomethane	0.1315	0.1385	-5.32	94	0.00
6	T	Chloroethane	0.1403	0.1291	7.98	79	0.00
7	T	dichloroflmethane	0.3736	0.3647	2.38	80	0.00
8	T	Trichlorofma	0.3225	0.3171	1.67	81	0.00
9	T	Ethylether	0.1819	0.1868	-2.69	86	0.00
10	T	dichlorotfluoroethan	0.2312	0.2264	2.08	79	0.00
11	T	propyleneoxide	0.0105	0.0126	-20.00	112	0.00
12	T	Acrolein	0.0491	0.0497	-1.22	85	0.00
13	CT	11dichlorthe	0.1926	0.1870	2.91	79	0.00
14	T	Trichlorotfluoroeth	0.1893	0.1860	1.74	79	0.00
15	T	Acetone	0.0833	0.0832	0.12	87	0.00
16	T	Iodomethane	0.2768	0.2415	12.75	78	0.00
17	T	Carbon Dislf	0.5599	0.5495	1.86	80	0.00
18	T	allylchloride	0.3837	0.3677	4.17	77	0.00
19	T	methylacetate	0.0404	0.0393	2.72	86	0.00
20	T	Methylchlorid	0.3161	0.2767	12.46	83	0.00
21	T	Acrylonitrile	0.0801	0.0848	-5.87	88	0.00
22	T	t12dichlorte	0.2194	0.2125	3.14	79	0.00
23	T	tbutylalcohol	0.0239	0.0248	-3.77	88	0.00
24	T	MtBE	0.5129	0.5276	-2.87	88	0.00
25	T	Hexane	0.2987	0.2884	3.45	80	0.00
26	PT	11dichlorota	0.4090	0.4085	0.12	81	0.00
27	T	Vinylacetate	0.4343	0.4787	-10.22	85	0.00
28	T	chloroprene	0.3779	0.3780	-0.03	80	0.00
29	T	Diisopether	0.8579	0.8706	-1.48	83	0.00
30	T	ETBE	0.5851	0.6173	-5.50	88	0.00
31	T	22dichloropr	0.2771	0.2647	4.47	78	0.00
32	T	c12dichlorte	0.2448	0.2348	4.08	79	0.00
33	T	2Butanone	0.0212	0.0221	-4.25	87	0.00
34	T	propionitrile	0.0322	0.0331	-2.80	84	0.00
35	T	Ethylacetate	0.0076	0.0073#	3.95	76	0.00
36	T	methacrylonitrile	0.0824	0.0811	1.58	82	0.00
37	T	Bromochlorma	0.1100	0.1101	-0.09	80	0.00
38	T	Tetrahydofur	0.0772	0.0778	-0.78	85	0.00
39	CT	Chloroform	0.3883	0.3780	2.65	81	0.00
40	T	111trichlota	0.3356	0.3219	4.08	78	0.00
41	S	SURRDibrflma	0.2574	0.2557	0.66	82	0.00
42	T	Cyclohexane	0.3986	0.3917	1.73	80	0.00
43	T	Carbtetraclo	0.2758	0.2597	5.84	77	0.00
44	T	11dicloprope	0.1060	0.1043	1.60	78	0.00
45	S	SURR12DCAd4	0.0573	0.0577	-0.70	85	0.00
46	T	Benzene	0.8581	0.8283	3.47	80	0.00
47	T	12dichlorota	0.2946	0.2949	-0.10	85	0.00
48	T	TAME	0.4466	0.4811	-7.73	93	0.00

49	T	trichloroete	0.2253	0.2164	3.95	79	0.00
50	T	methylcyclohexane	0.3429	0.3316	3.30	78	0.00
51	CT	12dicloropra	0.2539	0.2430	4.29	80	0.00
52	T	23dicl1propene	0.3316	0.3288	0.84	81	0.00
53	T	Dibromometha	0.1322	0.1299	1.74	81	0.00
54	T	methylmethacrylate	0.1398	0.1408	-0.72	87	0.00
55	T	14dioxane	0.0023	0.0024#	-4.35	88	0.00
56	T	Bromodiclrma	0.2844	0.2786	2.04	80	0.00
57	T	2Nitropropane	0.0478	0.0478	0.00	89	0.00
58	T	c13dicloproe	0.3463	0.3367	2.77	81	0.00
59	T	4Meth2Pentan	0.2186	0.2356	-7.78	86	0.00
60	S	SURRd8Tolule	0.9798	0.9766	0.33	81	0.00
61	CT	Toluene	0.5241	0.5145	1.83	81	0.00
62	T	t13Dicloprop	0.2842	0.2750	3.24	80	0.00
63	T	ethylmethacrylate	0.2590	0.2617	-1.04	85	0.00
64	T	112Triclotha	0.1591	0.1584	0.44	84	0.00
65	T	Tetrachlorte	0.2663	0.2496	6.27	76	0.00
66	T	13Diclorpropa	0.3177	0.3201	-0.76	84	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	81	0.00
68	T	2Hexanone	0.2037	0.2182	-7.12	87	0.00
69	T	Clorodibrmta	0.2858	0.2731	4.44	81	0.00
70	T	12Dibrometha	0.2528	0.2523	0.20	83	0.00
71	PT	Chlorobenzen	0.8032	0.7918	1.42	80	0.00
72	T	1Clhexane	0.3718	0.3498	5.92	78	0.00
73	T	1112Tetclota	0.2886	0.2833	1.84	81	0.00
74	CT	Ethylbenzene	1.2927	1.2758	1.31	80	0.00
75	T	m p-Xylene	0.4837	0.4689	3.06	79	0.00
76	T	o-Xylene	0.4822	0.4790	0.66	81	0.00
77	T	Styrene	0.8098	0.8040	0.72	82	0.00
78	PT	Bromoform	0.1977	0.1897	4.05	83	0.00
79	T	Isopropylben	1.2826	1.2805	0.16	80	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	81	0.00
81	T	cyclohexanone	0.0191	0.0196	-2.62	87	0.00
82	S	SURR4BrFBenz	0.8710	0.8733	-0.26	82	0.00
83	T	Bromobenzene	0.6921	0.6780	2.04	81	0.00
84	PT	1122Tetrclta	0.6026	0.6169	-2.37	83	0.00
85	T	123Triclproa	0.6627	0.5998	9.49	74	0.00
86	T	14dichloro2butene	0.1572	0.1493	5.03	82	0.00
87	T	n-Propylbenz	2.6533	2.5618	3.45	77	0.00
88	T	2chlorotolue	1.6483	1.6066	2.53	80	0.00
89	T	4chlorotolue	1.8783	1.8060	3.85	79	0.00
90	T	135Trimebenz	1.8723	1.8732	-0.05	81	0.00
91	T	tbutylbenzen	1.7406	1.7184	1.28	79	0.00
92	T	124Trimetben	1.8880	1.8363	2.74	78	0.00
93	T	sbutylbenzen	2.4673	2.4652	0.09	78	0.00
94	T	13Diclorbenz	1.2573	1.2149	3.37	78	0.00
95	T	pIsopropylto	2.0457	2.0128	1.61	78	0.00
96	T	14dichlorobe	1.2550	1.2112	3.49	81	0.00
97	T	12dichlorobe	1.1960	1.1793	1.40	81	0.00
98	T	nButylbenzen	1.7275	1.6412	5.00	77	0.00
99	T	12dibromo3cl	0.1309	0.1255	4.13	85	0.00
100	T	135Trichlorobenzene	0.9058	0.8371	7.58	76	0.00
101	T	124Trichlobe	0.8308	0.7979	3.96	80	0.00
102	T	Hexachlorobu	0.5297	0.4895	7.59	77	0.00
103	T	Naphthalene	1.6018	1.6178	-1.00	85	0.00
104	T	123Trichlben	0.7831	0.7584	3.15	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS042717.M Wed May 03 16:35:10 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2717B\CCV1.D Vial: 2
Acq On : 27 Apr 2017 21:10 Operator: RLD-AGK
Sample : 137136,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 28 08:08:42 2017

Quant Method : C:\INSTARCH\METHODS\LS042717.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS042617.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	82	0.00
2	T	Dichlorodi	0.0100	0.0109	-9.00	83	0.00
3	PT	Chloromethan	0.0100	0.0101	-1.00	82	0.00
4	CT	VinylChlorid	0.0100	0.0100	0.00	79	0.00
5	T	Bromomethane	0.0100	0.0105	-5.00	94	0.00
6	T	Chloroethane	0.0100	0.0092	8.00	79	0.00
7	T	dichloroflmethane	0.0100	0.0098	2.00	80	0.00
8	T	Trichlorofma	0.0100	0.0098	2.00	81	0.00
9	T	Ethylether	0.0100	0.0103	-3.00	86	0.00
10	T	dichlorotfluoroethan	0.0100	0.0098	2.00	79	0.00
11	T	propyleneoxide	0.1000	0.1245	-24.50#	112	0.00
12	T	Acrolein	0.0500	0.0506	-1.20	85	0.00
13	CT	11dichlorthe	0.0100	0.0097	3.00	79	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0196	2.00	79	0.00
15	T	Acetone	0.1000	0.0998	0.20	87	0.00
16	T	Iodomethane	0.0200	0.0175	12.50	78	0.00
17	T	Carbon Dislf	0.0200	0.0196	2.00	80	0.00
18	T	allylchloride	0.0200	0.0192	4.00	77	0.00
19	T	methylacetate	0.0100	0.0097	3.00	86	0.00
20	T	Methylchlorid	0.0100	0.0106	-6.00	83	0.00
21	T	Acrylonitrile	0.0500	0.0529	-5.80	88	0.00
22	T	t12dichlorte	0.0100	0.0097	3.00	79	0.00
23	T	tbutylalcohol	0.5000	0.5193	-3.86	88	0.00
24	T	MtBE	0.0100	0.0103	-3.00	88	0.00
25	T	Hexane	0.0200	0.0193	3.50	80	0.00
26	PT	11dichlorota	0.0100	0.0100	0.00	81	0.00
27	T	Vinylacetate	0.1000	0.1102	-10.20	85	0.00
28	T	chloroprene	0.0200	0.0200	0.00	80	0.00
29	T	Diisopether	0.0100	0.0101	-1.00	83	0.00
30	T	ETBE	0.0100	0.0106	-6.00	88	0.00
31	T	22dichloropr	0.0100	0.0096	4.00	78	0.00
32	T	c12dichlorte	0.0100	0.0096	4.00	79	0.00
33	T	2Butanone	0.1000	0.1041	-4.10	87	0.00
34	T	propionitrile	0.1000	0.1029	-2.90	84	0.00
35	T	Ethylacetate	0.0500	0.0483	3.40	76	0.00
36	T	methacrylonitrile	0.0200	0.0197	1.50	82	0.00
37	T	Bromochlorma	0.0100	0.0100	0.00	80	0.00
38	T	Tetrahydofur	0.1000	0.1007	-0.70	85	0.00
39	CT	Chloroform	0.0100	0.0097	3.00	81	0.00
40	T	111trichlota	0.0100	0.0096	4.00	78	0.00
41	S	SURRDibrflma	0.0200	0.0199	0.50	82	0.00
42	T	Cyclohexane	0.0100	0.0098	2.00	80	0.00
43	T	Carbtetraclo	0.0100	0.0094	6.00	77	0.00
44	T	11dicloprope	0.0100	0.0098	2.00	78	0.00
45	S	SURR12DCAd4	0.0200	0.0201	-0.50	85	0.00
46	T	Benzene	0.0100	0.0097	3.00	80	0.00
47	T	12dichlorota	0.0100	0.0100	0.00	85	0.00
48	T	TAME	0.0100	0.0108	-8.00	93	0.00

49	T	trichloroete	0.0100	0.0096	4.00	79	0.00
50	T	methylcyclohexane	0.0100	0.0097	3.00	78	0.00
51	CT	12dicloropra	0.0100	0.0096	4.00	80	0.00
52	T	23dicl1propene	0.0100	0.0099	1.00	81	0.00
53	T	Dibromometha	0.0100	0.0098	2.00	81	0.00
54	T	methylmethacrylate	0.0100	0.0101	-1.00	87	0.00
55	T	14dioxane	0.5000	0.5230	-4.60	88	0.00
56	T	Bromodiclrma	0.0100	0.0098	2.00	80	0.00
57	T	2Nitropropane	0.1000	0.0952	4.80	89	0.00
58	T	c13dicloproe	0.0100	0.0097	3.00	81	0.00
59	T	4Meth2Pentan	0.1000	0.1078	-7.80	86	0.00
60	S	SURRd8Tolule	0.0200	0.0199	0.50	81	0.00
61	CT	Toluene	0.0100	0.0098	2.00	81	0.00
62	T	t13Dicloprop	0.0100	0.0097	3.00	80	0.00
63	T	ethylmethacrylate	0.0200	0.0202	-1.00	85	0.00
64	T	112Triclotha	0.0100	0.0100	0.00	84	0.00
65	T	Tetrachlorte	0.0100	0.0094	6.00	76	0.00
66	T	13Diclorpropa	0.0100	0.0101	-1.00	84	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	81	0.00
68	T	2Hexanone	0.1000	0.1071	-7.10	87	0.00
69	T	Clorodibrmta	0.0100	0.0096	4.00	81	0.00
70	T	12Dibrometha	0.0100	0.0100	0.00	83	0.00
71	PT	Chlorobenzen	0.0100	0.0099	1.00	80	0.00
72	T	1Clhexane	0.0100	0.0094	6.00	78	0.00
73	T	1112Tetclota	0.0100	0.0098	2.00	81	0.00
74	CT	Ethylbenzene	0.0100	0.0099	1.00	80	0.00
75	T	m p-Xylene	0.0200	0.0194	3.00	79	0.00
76	T	o-Xylene	0.0100	0.0099	1.00	81	0.00
77	T	Styrene	0.0100	0.0099	1.00	82	0.00
78	PT	Bromoform	0.0100	0.0096	4.00	83	0.00
79	T	Isopropylben	0.0100	0.0100	0.00	80	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	81	0.00
81	T	cyclohexanone	0.2000	0.2045	-2.25	87	0.00
82	S	SURR4BrFBenz	0.0200	0.0201	-0.50	82	0.00
83	T	Bromobenzene	0.0100	0.0098	2.00	81	0.00
84	PT	1122Tetrclta	0.0100	0.0102	-2.00	83	0.00
85	T	123Triclproa	0.0100	0.0091	9.00	74	0.00
86	T	14dichloro2butene	0.0100	0.0095	5.00	82	0.00
87	T	n-Propylbenz	0.0100	0.0097	3.00	77	0.00
88	T	2chlorotolue	0.0100	0.0097	3.00	80	0.00
89	T	4chlorotolue	0.0100	0.0096	4.00	79	0.00
90	T	135Trimebenz	0.0100	0.0100	0.00	81	0.00
91	T	tbutylbenzen	0.0100	0.0099	1.00	79	0.00
92	T	124Trimetben	0.0100	0.0097	3.00	78	0.00
93	T	sbutylbenzen	0.0100	0.0100	0.00	78	0.00
94	T	13Diclorbenz	0.0100	0.0097	3.00	78	0.00
95	T	pIsopropylto	0.0100	0.0098	2.00	78	0.00
96	T	14dichlorobe	0.0100	0.0097	3.00	81	0.00
97	T	12dichlorobe	0.0100	0.0099	1.00	81	0.00
98	T	nButylbenzen	0.0100	0.0095	5.00	77	0.00
99	T	12dibromo3cl	0.0100	0.0096	4.00	85	0.00
100	T	135Trichlorobenzene	0.0100	0.0092	8.00	76	0.00
101	T	124Trichlobe	0.0100	0.0096	4.00	80	0.00
102	T	Hexachlorobu	0.0100	0.0092	8.00	77	0.00
103	T	Naphthalene	0.0100	0.0101	-1.00	85	0.00
104	T	123Trichlben	0.0100	0.0097	3.00	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS042717.M Wed May 03 16:35:32 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\CCV1.D Vial: 2
Acq On : 27 Apr 2017 21:10 Operator: RLD-AGK
Sample : 137136,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 28 08:08:42 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 21:31:29 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	1107566	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	859168	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	471356	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	283167	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	63874	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.78	98	1081695	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	411633	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	138262	0.0109	mg/kg	99
3) Chloromethan	2.12	50	172590	0.0101	mg/kg	96
4) VinylChlorid	2.27	62	144168	0.0100	mg/kg	98
5) Bromomethane	2.75	94	76678	0.0105	mg/kg	95
6) Chloroethane	2.91	64	71507	0.0092	mg/kg	97
7) dichloroflmethane	3.23	67	201941	0.0098	mg/kg	99
8) Trichlorofma	3.30	101	175601	0.0098	mg/kg	100
9) Ethylether	3.74	59	103465	0.0103	mg/kg	94
10) dichlorotfluoroethan	3.77	67	125379	0.0098	mg/kg	98
11) propyleneoxide	3.82	58	69815	0.1245	mg/kg	99
12) Acrolein	3.91	56	137624	0.0506	mg/kg	86
13) 11dichlorthe	4.03	96	103543	0.0097	mg/kg	94
14) Trichlorotfluoroeth	4.06	101	205982	0.0196	mg/kg	98
15) Acetone	4.13	43	460513	0.0998	mg/kg	99
16) Iodomethane	4.22	142	267516	0.0175	mg/kg	99
17) Carbon Dislf	4.30	76	608601	0.0196	mg/kg	99
18) allylchloride	4.53	41	407201	0.0192	mg/kg	98
19) methylacetate	4.59	74	21763	0.0097	mg/kg	98
20) Methylchlorid	4.70	84	153254	0.0106	mg/kg	98
21) Acrylonitrile	5.03	53	234752	0.0529	mg/kg	97
22) t12dichlorte	5.06	96	117655	0.0097	mg/kg	98
23) tbutylalcohol	4.90	59	687695	0.5193	mg/kg	100
24) MtBE	5.07	73	292182	0.0103	mg/kg	99
25) Hexane	5.43	57	319382	0.0193	mg/kg	98
26) 11dichlorota	5.60	63	226196	0.0100	mg/kg	99
27) Vinylacetate	5.69	43	2650948	0.1102	mg/kg	100
28) chloroprene	5.72	53	418627	0.0200	mg/kg	100
29) Diisopether	5.72	45	482145	0.0101	mg/kg	96
30) ETBE	6.18	59	341847	0.0106	mg/kg	99
31) 22dichloropr	6.33	77	146603	0.0096	mg/kg	100
32) c12dichlorte	6.34	96	130046	0.0096	mg/kg	96
33) 2Butanone	6.36	72	122407	0.1041	mg/kg	98
34) propionitrile	6.43	54	183526	0.1029	mg/kg	98
35) Ethylacetate	6.46	88	20207	0.0483	mg/kg#	79
36) methacrylonitrile	6.62	67	89796	0.0197	mg/kg	92
37) Bromochlorma	6.63	128	60964	0.0100	mg/kg	99
38) Tetrahydofur	6.70	42	430596	0.1007	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\CCV1.D Vial: 2
Acq On : 27 Apr 2017 21:10 Operator: RLD-AGK
Sample : 137136,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 28 08:08:42 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 21:31:29 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	209349	0.0097 mg/kg	100
40)	111trichlota	6.97	97	178265	0.0096 mg/kg	98
42)	Cyclohexane	7.04	56	216908	0.0098 mg/kg	99
43)	Carbtetraclo	7.17	119	143823	0.0094 mg/kg	97
44)	11dicloprope	7.17	110	57732	0.0098 mg/kg	98
46)	Benzene	7.43	78	458696	0.0097 mg/kg	98
47)	12dichlorota	7.45	62	163334	0.0100 mg/kg	99
48)	TAME	7.57	73	266418	0.0108 mg/kg	100
49)	trichloroete	8.23	95	119859	0.0096 mg/kg	99
50)	methylcyclohexane	8.48	83	183653	0.0097 mg/kg	97
51)	12dicloropra	8.51	63	134558	0.0096 mg/kg	98
52)	23dicl1propene	8.57	75	182076	0.0099 mg/kg	99
53)	Dibromometha	8.66	93	71927	0.0098 mg/kg	94
54)	methylmethacrylate	8.67	69	77994	0.0101 mg/kg	97
55)	14dioxane	8.69	88	66522	0.5230 mg/kg	98
56)	Bromodiclrma	8.86	83	154300	0.0098 mg/kg	96
57)	2Nitropropane	9.14	43	264485	0.0952 mg/kg	97
58)	c13dicloproe	9.43	75	186477	0.0097 mg/kg	100
59)	4Meth2Pentan	9.63	43	1304987	0.1078 mg/kg	100
61)	Toluene	9.87	92	284902	0.0098 mg/kg	98
62)	t13Dicloprop	10.15	75	152268	0.0097 mg/kg	98
63)	ethylmethacrylate	10.28	69	289796	0.0202 mg/kg	100
64)	112Triclotha	10.39	83	87738	0.0100 mg/kg	99
65)	Tetrachlorte	10.60	166	138234	0.0094 mg/kg	96
66)	13Diclorpropa	10.61	76	177241	0.0101 mg/kg	100
68)	2Hexanone	10.72	43	937556	0.1071 mg/kg	100
69)	Clorodibrmta	10.91	129	117305	0.0096 mg/kg	98
70)	12Dibrometha	11.07	107	108389	0.0100 mg/kg	98
71)	Chlorobenzen	11.75	112	340142	0.0099 mg/kg	98
72)	1Clhexane	11.71	91	150262	0.0094 mg/kg	97
73)	1112Tetclota	11.86	131	121699	0.0098 mg/kg	98
74)	Ethylbenzene	11.90	91	548060	0.0099 mg/kg	99
75)	m p-Xylene	12.06	106	402834	0.0194 mg/kg	100
76)	o-Xylene	12.62	106	205789	0.0099 mg/kg	98
77)	Styrene	12.63	104	345371	0.0099 mg/kg	98
78)	Bromoform	12.89	173	81503	0.0096 mg/kg	98
79)	Isopropylben	13.14	105	550103	0.0100 mg/kg	100
81)	cyclohexanone	13.25	55	92257	0.2045 mg/kg	99
83)	Bromobenzene	13.56	156	159791	0.0098 mg/kg	99
84)	1122Tetrclta	13.55	83	145392	0.0102 mg/kg	99
85)	123Triclproa	13.62	75	141352	0.0091 mg/kg	91
86)	14dichloro2butene	13.63	53	35183	0.0095 mg/kg	100
87)	n-Propylbenz	13.73	91	603759	0.0097 mg/kg	99
88)	2chlorotolue	13.84	91	378651	0.0097 mg/kg	99
89)	4chlorotolue	14.00	91	425625	0.0096 mg/kg	100
90)	135Trimebenz	13.98	105	441470	0.0100 mg/kg	97
91)	tbutylbenzen	14.45	119	404985	0.0099 mg/kg	98
92)	124Trimetben	14.52	105	432784	0.0097 mg/kg	99
93)	sbutylbenzen	14.77	105	581000	0.0100 mg/kg	99
94)	13Diclorbenz	14.92	146	286327	0.0097 mg/kg	99
95)	pIsopropylto	14.98	119	474368	0.0098 mg/kg	98
96)	14dichlorobe	15.05	146	285446	0.0097 mg/kg	98
97)	12dichlorobe	15.60	146	277937	0.0099 mg/kg	99
98)	nButylbenzen	15.58	91	386795	0.0095 mg/kg	99
99)	12dibromo3cl	16.71	157	29583	0.0096 mg/kg	95
100)	135Trichlorobenzene	17.00	180	197279	0.0092 mg/kg	100
101)	124Trichlobe	17.82	180	188057	0.0096 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

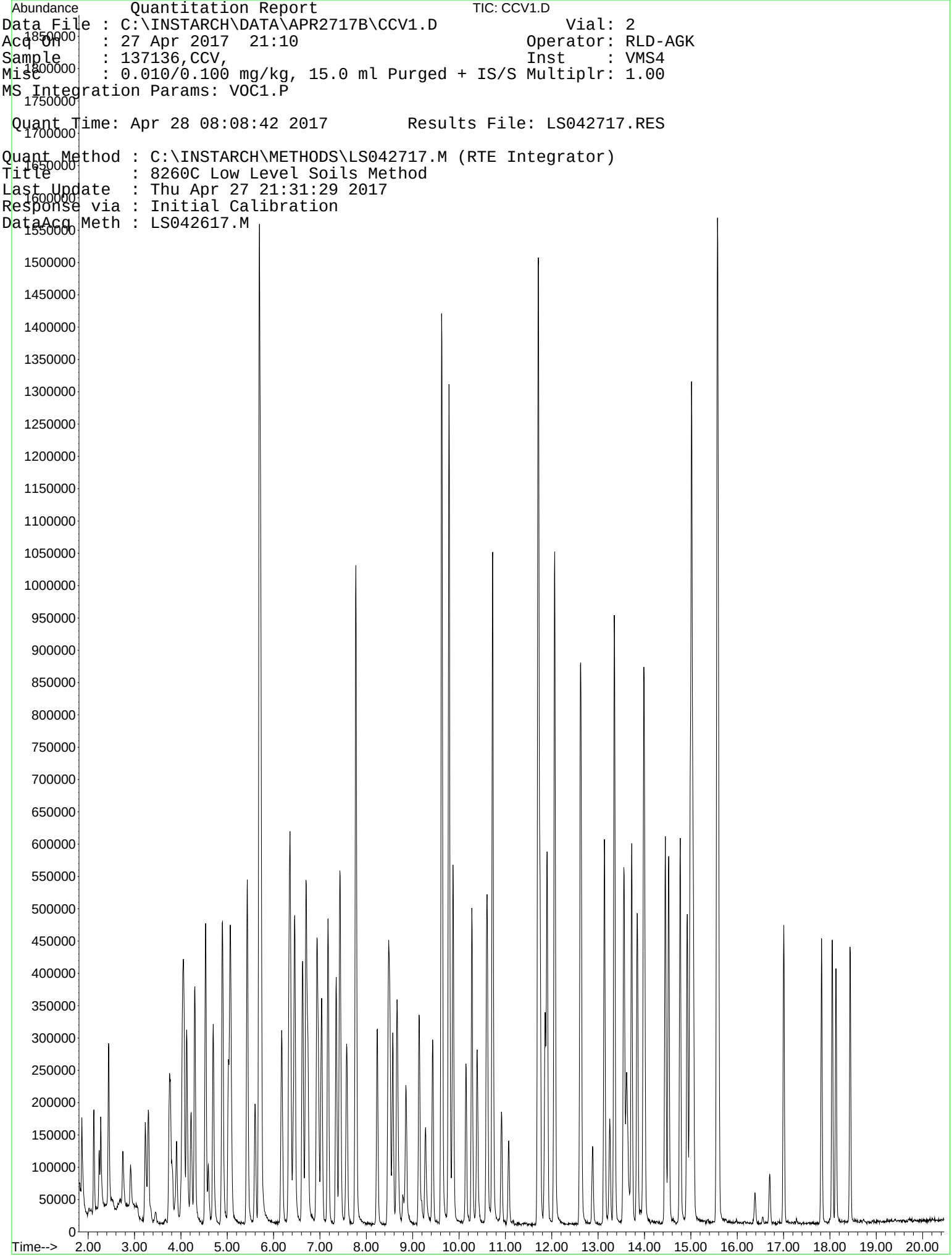
Data File : C:\INSTARCH\DATA\APR2717B\CCV1.D Vial: 2
Acq On : 27 Apr 2017 21:10 Operator: RLD-AGK
Sample : 137136,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:08:42 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 21:31:29 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	115367	0.0092 mg/kg	98
103) Naphthalene	18.13	128	381285	0.0101 mg/kg	99
104) 123Trichlben	18.44	180	178745	0.0097 mg/kg	99

(#) = qualifier out of range (m) = manual integration


Abundance
Quantitation Report
TIC: CCV1.D
Data File : C:\INSTARCH\DATA\APR2717B\CCV1.D Vial: 2
Acq On : 27 Apr 2017 21:10 Operator: RLD-AGK
Sample : 137136,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 28 08:08:42 2017 Results File: LS042717.RES
Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Thu Apr 27 21:31:29 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M
1850000
1800000
1750000
1700000
1650000
1600000
1550000
1500000
1450000
1400000
1350000
1300000
1250000
1200000
1150000
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1050000
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Time-->
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7.00
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14.00
15.00
16.00
17.00
18.00
19.00
20.00

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2717B\CCVF1.D Vial: 25
Acq On : 28 Apr 2017 8:37 Operator: RLD-AGK
Sample : 137136,CCVF, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 28 08:58:09 2017

Quant Method : C:\INSTARCH\METHODS\LS042717.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS042717.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	93	0.00
2	T	Dichlorodi	0.2301	0.2611	-13.47	99	0.00
3	PT	Chloromethan	0.3096	0.3097	-0.03	93	0.00
4	CT	VinylChlorid	0.2613	0.2682	-2.64	92	0.00
5	T	Bromomethane	0.1315	0.1489	-13.23	115	0.00
6	T	Chloroethane	0.1403	0.1350	3.78	94	0.00
7	T	dichloroflmethane	0.3736	0.3685	1.37	91	0.00
8	T	Trichlorofma	0.3225	0.3283	-1.80	95	0.00
9	T	Ethylether	0.1819	0.1833	-0.77	96	0.00
10	T	dichlorotfluoroethan	0.2312	0.2351	-1.69	93	0.00
11	T	propyleneoxide	0.0105	0.0127	-20.95	128	0.00
12	T	Acrolein	0.0491	0.0500	-1.83	98	0.00
13	CT	11dichlorthe	0.1926	0.1916	0.52	92	0.00
14	T	Trichlorotfluoroeth	0.1893	0.1948	-2.91	94	0.00
15	T	Acetone	0.0833	0.0832	0.12	99	0.00
16	T	Iodomethane	0.2768	0.2092	24.42	77	0.00
17	T	Carbon Dislf	0.5599	0.5504	1.70	91	0.00
18	T	allylchloride	0.3837	0.3741	2.50	90	0.00
19	T	methylacetate	0.0404	0.0426	-5.45	106	0.00
20	T	Methylchlorid	0.3161	0.2476	21.67	84	0.00
21	T	Acrylonitrile	0.0801	0.0849	-5.99	100	0.00
22	T	t12dichlorte	0.2194	0.2129	2.96	90	0.00
23	T	tbutylalcohol	0.0239	0.0250	-4.60	100	0.00
24	T	MtBE	0.5129	0.5325	-3.82	100	0.00
25	T	Hexane	0.2987	0.3214	-7.60	102	0.00
26	PT	11dichlorota	0.4090	0.4151	-1.49	94	0.00
27	T	Vinylacetate	0.4343	0.4738	-9.10	96	0.00
28	T	chloroprene	0.3779	0.3880	-2.67	93	0.00
29	T	Diisopether	0.8579	0.9022	-5.16	98	0.00
30	T	ETBE	0.5851	0.6259	-6.97	101	0.00
31	T	22dichloropr	0.2771	0.2604	6.03	87	0.00
32	T	c12dichlorte	0.2448	0.2443	0.20	94	0.00
33	T	2Butanone	0.0212	0.0225	-6.13	100	0.00
34	T	propionitrile	0.0322	0.0344	-6.83	100	0.00
35	T	Ethylacetate	0.0076	0.0077#	-1.32	91	0.00
36	T	methacrylonitrile	0.0824	0.0838	-1.70	96	0.00
37	T	Bromochlorma	0.1100	0.1161	-5.55	96	0.00
38	T	Tetrahydofur	0.0772	0.0817	-5.83	102	0.00
39	CT	Chloroform	0.3883	0.3887	-0.10	94	0.00
40	T	111trichlota	0.3356	0.3262	2.80	90	0.00
41	S	SURRDibrflma	0.2574	0.2597	-0.89	94	0.00
42	T	Cyclohexane	0.3986	0.4044	-1.46	94	0.00
43	T	Carbtetraclo	0.2758	0.2660	3.55	90	0.00
44	T	11dicloprope	0.1060	0.1043	1.60	89	0.00
45	S	SURR12DCAd4	0.0573	0.0561	2.09	94	0.00
46	T	Benzene	0.8581	0.8569	0.14	94	0.00
47	T	12dichlorota	0.2946	0.3103	-5.33	101	0.00
48	T	TAME	0.4466	0.4766	-6.72	105	0.00

49	T	trichloroete	0.2253	0.2187	2.93	91	0.00
50	T	methylcyclohexane	0.3429	0.3414	0.44	91	0.00
51	CT	12dicloropra	0.2539	0.2571	-1.26	97	0.00
52	T	23dicl1propene	0.3316	0.3326	-0.30	93	0.00
53	T	Dibromometha	0.1322	0.1340	-1.36	95	0.00
54	T	methylmethacrylate	0.1398	0.1400	-0.14	98	0.00
55	T	14dioxane	0.0023	0.0024#	-4.35	102	0.00
56	T	Bromodiclrma	0.2844	0.2874	-1.05	93	0.00
57	T	2Nitropropane	0.0478	0.0448	6.28	95	0.00
58	T	c13dicloproe	0.3463	0.3308	4.48	91	0.00
59	T	4Meth2Pentan	0.2186	0.2453	-12.21	101	0.00
60	S	SURRd8Tolule	0.9798	0.9846	-0.49	93	0.00
61	CT	Toluene	0.5241	0.5211	0.57	93	0.00
62	T	t13Dicloprop	0.2842	0.2721	4.26	90	0.00
63	T	ethylmethacrylate	0.2590	0.2617	-1.04	97	0.00
64	T	112Triclotha	0.1591	0.1669	-4.90	100	0.00
65	T	Tetrachlorte	0.2663	0.2574	3.34	89	0.00
66	T	13Diclorpropa	0.3177	0.3247	-2.20	96	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	93	0.00
68	T	2Hexanone	0.2037	0.2249	-10.41	104	0.00
69	T	Clorodibrmta	0.2858	0.2790	2.38	96	0.00
70	T	12Dibrometha	0.2528	0.2547	-0.75	97	0.00
71	PT	Chlorobenzen	0.8032	0.7755	3.45	91	0.00
72	T	1Clhexane	0.3718	0.3540	4.79	91	0.00
73	T	1112Tetclota	0.2886	0.2830	1.94	93	0.00
74	CT	Ethylbenzene	1.2927	1.2710	1.68	92	0.00
75	T	m p-Xylene	0.4837	0.4621	4.47	90	0.00
76	T	o-Xylene	0.4822	0.4701	2.51	92	0.00
77	T	Styrene	0.8098	0.7951	1.82	93	0.00
78	PT	Bromoform	0.1977	0.1854	6.22	94	0.00
79	T	Isopropylben	1.2826	1.2682	1.12	92	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	95	0.00
81	T	cyclohexanone	0.0191	0.0205	-7.33	106	0.00
82	S	SURR4BrFBenz	0.8710	0.8551	1.83	93	0.00
83	T	Bromobenzene	0.6921	0.6484	6.31	90	0.00
84	PT	1122Tetrclta	0.6026	0.6229	-3.37	98	0.00
85	T	123Triclproa	0.6627	0.6530	1.46	94	0.00
86	T	14dichloro2butene	0.1572	0.1461	7.06	93	0.00
87	T	n-Propylbenz	2.6533	2.5384	4.33	89	0.00
88	T	2chlorotolue	1.6483	1.5960	3.17	92	0.00
89	T	4chlorotolue	1.8783	1.7486	6.91	88	0.00
90	T	135Trimebenz	1.8723	1.7946	4.15	90	0.00
91	T	tbutylbenzen	1.7406	1.6879	3.03	90	0.00
92	T	124Trimetben	1.8880	1.7809	5.67	88	0.00
93	T	sbutylbenzen	2.4673	2.4600	0.30	91	0.00
94	T	13Diclorbenz	1.2573	1.1293	10.18	84	0.00
95	T	pIsopropylto	2.0457	1.9454	4.90	88	0.00
96	T	14dichlorobe	1.2550	1.1297	9.98	87	0.00
97	T	12dichlorobe	1.1960	1.1129	6.95	89	0.00
98	T	nButylbenzen	1.7275	1.5390	10.91	84	0.00
99	T	12dibromo3cl	0.1309	0.1264	3.44	99	0.00
100	T	135Trichlorobenzene	0.9058	0.7240	20.07	76	0.00
101	T	124Trichlobe	0.8308	0.6518	21.55	76	0.00
102	T	Hexachlorobu	0.5297	0.4936	6.82	90	0.00
103	T	Naphthalene	1.6018	1.5500	3.23	94	0.00
104	T	123Trichlben	0.7831	0.6836	12.71	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS042717.M Wed May 03 16:37:26 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2717B\CCVF1.D Vial: 25
Acq On : 28 Apr 2017 8:37 Operator: RLD-AGK
Sample : 137136,CCVF, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 28 08:58:09 2017

Quant Method : C:\INSTARCH\METHODS\LS042717.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS042717.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	93	0.00
2	T	Dichlorodi	0.0100	0.0113	-13.00	99	0.00
3	PT	Chloromethan	0.0100	0.0100	0.00	93	0.00
4	CT	VinylChlorid	0.0100	0.0103	-3.00	92	0.00
5	T	Bromomethane	0.0100	0.0113	-13.00	115	0.00
6	T	Chloroethane	0.0100	0.0096	4.00	94	0.00
7	T	dichloroflmethane	0.0100	0.0099	1.00	91	0.00
8	T	Trichlorofma	0.0100	0.0102	-2.00	95	0.00
9	T	Ethylether	0.0100	0.0101	-1.00	96	0.00
10	T	dichlorotfluoroethan	0.0100	0.0102	-2.00	93	0.00
11	T	propyleneoxide	0.1000	0.1253	-25.30	128	0.00
12	T	Acrolein	0.0500	0.0509	-1.80	98	0.00
13	CT	11dichlorthe	0.0100	0.0099	1.00	92	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0206	-3.00	94	0.00
15	T	Acetone	0.1000	0.0998	0.20	99	0.00
16	T	Iodomethane	0.0200	0.0151	24.50	77	0.00
17	T	Carbon Dislf	0.0200	0.0197	1.50	91	0.00
18	T	allylchloride	0.0200	0.0195	2.50	90	0.00
19	T	methylacetate	0.0100	0.0105	-5.00	106	0.00
20	T	Methylchlorid	0.0100	0.0093	7.00	84	0.00
21	T	Acrylonitrile	0.0500	0.0530	-6.00	100	0.00
22	T	t12dichlorte	0.0100	0.0097	3.00	90	0.00
23	T	tbutylalcohol	0.5000	0.5222	-4.44	100	0.00
24	T	MtBE	0.0100	0.0104	-4.00	100	0.00
25	T	Hexane	0.0200	0.0215	-7.50	102	0.00
26	PT	11dichlorota	0.0100	0.0102	-2.00	94	0.00
27	T	Vinylacetate	0.1000	0.1091	-9.10	96	0.00
28	T	chloroprene	0.0200	0.0205	-2.50	93	0.00
29	T	Diisopether	0.0100	0.0105	-5.00	98	0.00
30	T	ETBE	0.0100	0.0107	-7.00	101	0.00
31	T	22dichloropr	0.0100	0.0094	6.00	87	0.00
32	T	c12dichlorte	0.0100	0.0100	0.00	94	0.00
33	T	2Butanone	0.1000	0.1060	-6.00	100	0.00
34	T	propionitrile	0.1000	0.1068	-6.80	100	0.00
35	T	Ethylacetate	0.0500	0.0508	-1.60	91	0.00
36	T	methacrylonitrile	0.0200	0.0203	-1.50	96	0.00
37	T	Bromochlorma	0.0100	0.0106	-6.00	96	0.00
38	T	Tetrahydofur	0.1000	0.1058	-5.80	102	0.00
39	CT	Chloroform	0.0100	0.0100	0.00	94	0.00
40	T	111trichlota	0.0100	0.0097	3.00	90	0.00
41	S	SURRDibrflma	0.0200	0.0202	-1.00	94	0.00
42	T	Cyclohexane	0.0100	0.0101	-1.00	94	0.00
43	T	Carbtetraclo	0.0100	0.0096	4.00	90	0.00
44	T	11dicloprope	0.0100	0.0098	2.00	89	0.00
45	S	SURR12DCAd4	0.0200	0.0196	2.00	94	0.00
46	T	Benzene	0.0100	0.0100	0.00	94	0.00
47	T	12dichlorota	0.0100	0.0105	-5.00	101	0.00
48	T	TAME	0.0100	0.0107	-7.00	105	0.00

49	T	trichloroete	0.0100	0.0097	3.00	91	0.00
50	T	methylcyclohexane	0.0100	0.0100	0.00	91	0.00
51	CT	12dicloropra	0.0100	0.0101	-1.00	97	0.00
52	T	23dicl1propene	0.0100	0.0100	0.00	93	0.00
53	T	Dibromometha	0.0100	0.0101	-1.00	95	0.00
54	T	methylmethacrylate	0.0100	0.0100	0.00	98	0.00
55	T	14dioxane	0.5000	0.5314	-6.28	102	0.00
56	T	Bromodiclrma	0.0100	0.0101	-1.00	93	0.00
57	T	2Nitropropane	0.1000	0.0900	10.00	95	0.00
58	T	c13dicloproe	0.0100	0.0096	4.00	91	0.00
59	T	4Meth2Pentan	0.1000	0.1122	-12.20	101	0.00
60	S	SURRd8Tolule	0.0200	0.0201	-0.50	93	0.00
61	CT	Toluene	0.0100	0.0099	1.00	93	0.00
62	T	t13Dicloprop	0.0100	0.0096	4.00	90	0.00
63	T	ethylmethacrylate	0.0200	0.0202	-1.00	97	0.00
64	T	112Triclotha	0.0100	0.0105	-5.00	100	0.00
65	T	Tetrachlorte	0.0100	0.0097	3.00	89	0.00
66	T	13Diclorpropa	0.0100	0.0102	-2.00	96	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	93	0.00
68	T	2Hexanone	0.1000	0.1104	-10.40	104	0.00
69	T	Clorodibrmta	0.0100	0.0098	2.00	96	0.00
70	T	12Dibrometha	0.0100	0.0101	-1.00	97	0.00
71	PT	Chlorobenzen	0.0100	0.0097	3.00	91	0.00
72	T	1Clhexane	0.0100	0.0095	5.00	91	0.00
73	T	1112Tetclota	0.0100	0.0098	2.00	93	0.00
74	CT	Ethylbenzene	0.0100	0.0098	2.00	92	0.00
75	T	m p-Xylene	0.0200	0.0191	4.50	90	0.00
76	T	o-Xylene	0.0100	0.0097	3.00	92	0.00
77	T	Styrene	0.0100	0.0098	2.00	93	0.00
78	PT	Bromoform	0.0100	0.0094	6.00	94	0.00
79	T	Isopropylben	0.0100	0.0099	1.00	92	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	95	0.00
81	T	cyclohexanone	0.2000	0.2139	-6.95	106	0.00
82	S	SURR4BrFBenz	0.0200	0.0196	2.00	93	0.00
83	T	Bromobenzene	0.0100	0.0094	6.00	90	0.00
84	PT	1122Tetrclta	0.0100	0.0103	-3.00	98	0.00
85	T	123Triclproa	0.0100	0.0099	1.00	94	0.00
86	T	14dichloro2butene	0.0100	0.0093	7.00	93	0.00
87	T	n-Propylbenz	0.0100	0.0096	4.00	89	0.00
88	T	2chlorotolue	0.0100	0.0097	3.00	92	0.00
89	T	4chlorotolue	0.0100	0.0093	7.00	88	0.00
90	T	135Trimebenz	0.0100	0.0096	4.00	90	0.00
91	T	tbutylbenzen	0.0100	0.0097	3.00	90	0.00
92	T	124Trimetben	0.0100	0.0094	6.00	88	0.00
93	T	sbutylbenzen	0.0100	0.0100	0.00	91	0.00
94	T	13Diclorbenz	0.0100	0.0090	10.00	84	0.00
95	T	pIsopropylto	0.0100	0.0095	5.00	88	0.00
96	T	14dichlorobe	0.0100	0.0090	10.00	87	0.00
97	T	12dichlorobe	0.0100	0.0093	7.00	89	0.00
98	T	nButylbenzen	0.0100	0.0089	11.00	84	0.00
99	T	12dibromo3cl	0.0100	0.0097	3.00	99	0.00
100	T	135Trichlorobenzene	0.0100	0.0080	20.00	76	0.00
101	T	124Trichlobe	0.0100	0.0078	22.00	76	0.00
102	T	Hexachlorobu	0.0100	0.0093	7.00	90	0.00
103	T	Naphthalene	0.0100	0.0097	3.00	94	0.00
104	T	123Trichlben	0.0100	0.0087	13.00	85	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS042717.M Wed May 03 16:37:49 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\CCVF1.D Vial: 25
Acq On : 28 Apr 2017 8:37 Operator: RLD-AGK
Sample : 137136,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 28 08:58:09 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1258063	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	990687	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	547352	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	326779	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	70611	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1238693	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	468041	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	164262	0.0113	mg/kg	97
3) Chloromethan	2.12	50	194801	0.0100	mg/kg	97
4) VinylChlorid	2.27	62	168679	0.0103	mg/kg	98
5) Bromomethane	2.75	94	93680	0.0113	mg/kg	100
6) Chloroethane	2.91	64	84940	0.0096	mg/kg	100
7) dichloroflmethane	3.23	67	231822	0.0099	mg/kg	98
8) Trichlorofma	3.30	101	206493	0.0102	mg/kg	100
9) Ethylether	3.75	59	115305	0.0101	mg/kg	99
10) dichlorotfluoroethan	3.77	67	147879	0.0102	mg/kg	96
11) propyleneoxide	3.82	58	79853	0.1253	mg/kg	86
12) Acrolein	3.90	56	157104	0.0509	mg/kg	87
13) 11dichlorthe	4.03	96	120491	0.0099	mg/kg	96
14) Trichlorotfluoroeth	4.06	101	245012	0.0206	mg/kg	99
15) Acetone	4.13	43	523327	0.0998	mg/kg	99
16) Iodomethane	4.22	142	263219	0.0151	mg/kg	99
17) Carbon Dislf	4.30	76	692441	0.0197	mg/kg	99
18) allylchloride	4.53	41	470634	0.0195	mg/kg	98
19) methylacetate	4.60	74	26799	0.0105	mg/kg	94
20) Methylchlorid	4.69	84	155728	0.0093	mg/kg	96
21) Acrylonitrile	5.03	53	267101	0.0530	mg/kg	98
22) t12dichlorte	5.06	96	133942	0.0097	mg/kg	96
23) tbutylalcohol	4.90	59	785512	0.5222	mg/kg	96
24) MtBE	5.08	73	334983	0.0104	mg/kg	99
25) Hexane	5.44	57	404323	0.0215	mg/kg	99
26) 11dichlorota	5.60	63	261135	0.0102	mg/kg	99
27) Vinylacetate	5.69	43	2980088	0.1091	mg/kg	100
28) chloroprene	5.72	53	488187	0.0205	mg/kg	99
29) Diisopether	5.72	45	567517	0.0105	mg/kg	96
30) ETBE	6.17	59	393696	0.0107	mg/kg	99
31) 22dichloropr	6.34	77	163778	0.0094	mg/kg	99
32) c12dichlorte	6.34	96	153692	0.0100	mg/kg	99
33) 2Butanone	6.36	72	141617	0.1060	mg/kg	98
34) propionitrile	6.43	54	216405	0.1068	mg/kg	97
35) Ethylacetate	6.46	88	24123	0.0508	mg/kg#	76
36) methacrylonitrile	6.62	67	105424	0.0203	mg/kg	95
37) Bromochlorma	6.63	128	73035	0.0106	mg/kg	98
38) Tetrahydofur	6.70	42	514194	0.1058	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\CCVF1.D Vial: 25
Acq On : 28 Apr 2017 8:37 Operator: RLD-AGK
Sample : 137136,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 28 08:58:09 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	244530	0.0100	mg/kg	99
40)	111trichlota	6.96	97	205183	0.0097	mg/kg	99
42)	Cyclohexane	7.03	56	254390	0.0101	mg/kg	100
43)	Carbtetraclo	7.18	119	167330	0.0096	mg/kg	99
44)	11dicloprope	7.17	110	65629	0.0098	mg/kg	95
46)	Benzene	7.43	78	539042	0.0100	mg/kg	99
47)	12dichlorota	7.45	62	195203	0.0105	mg/kg	99
48)	TAME	7.58	73	299821	0.0107	mg/kg	98
49)	trichloroete	8.23	95	137596	0.0097	mg/kg	97
50)	methylcyclohexane	8.48	83	214733	0.0100	mg/kg	95
51)	12dicloropra	8.51	63	161723	0.0101	mg/kg	99
52)	23dicl1propene	8.57	75	209223	0.0100	mg/kg	97
53)	Dibromometha	8.65	93	84281	0.0101	mg/kg	97
54)	methylmethacrylate	8.67	69	88079	0.0100	mg/kg	98
55)	14dioxane	8.69	88	76785	0.5314	mg/kg	97
56)	Bromodiclrma	8.86	83	180807	0.0101	mg/kg	97
57)	2Nitropropane	9.14	43	281954	0.0900	mg/kg	99
58)	c13dicloproe	9.43	75	208096	0.0096	mg/kg	99
59)	4Meth2Pentan	9.63	43	1543296	0.1122	mg/kg	99
61)	Toluene	9.87	92	327802	0.0099	mg/kg	99
62)	t13Dicloprop	10.15	75	171161	0.0096	mg/kg	97
63)	ethylmethacrylate	10.28	69	329182	0.0202	mg/kg	99
64)	112Triclotha	10.39	83	104984	0.0105	mg/kg	98
65)	Tetrachlorte	10.60	166	161929	0.0097	mg/kg	99
66)	13Diclorpropa	10.61	76	204242	0.0102	mg/kg	100
68)	2Hexanone	10.72	43	1113852	0.1104	mg/kg	99
69)	Clorodibrmta	10.92	129	138200	0.0098	mg/kg	99
70)	12Dibrometha	11.08	107	126164	0.0101	mg/kg	99
71)	Chlorobenzen	11.75	112	384160	0.0097	mg/kg	100
72)	1Clhexane	11.71	91	175366	0.0095	mg/kg	98
73)	1112Tetclota	11.85	131	140191	0.0098	mg/kg	99
74)	Ethylbenzene	11.90	91	629578	0.0098	mg/kg	98
75)	m p-Xylene	12.06	106	457790	0.0191	mg/kg	100
76)	o-Xylene	12.62	106	232842	0.0097	mg/kg	96
77)	Styrene	12.63	104	393823	0.0098	mg/kg	98
78)	Bromoform	12.88	173	91852	0.0094	mg/kg	98
79)	Isopropylben	13.14	105	628193	0.0099	mg/kg	99
81)	cyclohexanone	13.25	55	112041	0.2139	mg/kg	99
83)	Bromobenzene	13.56	156	177442	0.0094	mg/kg	97
84)	1122Tetrclta	13.55	83	170482	0.0103	mg/kg	99
85)	123Triclproa	13.61	75	178710	0.0099	mg/kg	94
86)	14dichloro2butene	13.64	53	39992	0.0093	mg/kg	93
87)	n-Propylbenz	13.72	91	694689	0.0096	mg/kg	100
88)	2chlorotolue	13.84	91	436789	0.0097	mg/kg	98
89)	4chlorotolue	14.00	91	478545	0.0093	mg/kg	100
90)	135Trimebenz	13.98	105	491147	0.0096	mg/kg	100
91)	tbutylbenzen	14.45	119	461951	0.0097	mg/kg	98
92)	124Trimetben	14.52	105	487397	0.0094	mg/kg	100
93)	sbutylbenzen	14.77	105	673247	0.0100	mg/kg	100
94)	13Diclorbenz	14.93	146	309053	0.0090	mg/kg	99
95)	pIsopropylto	14.99	119	532412	0.0095	mg/kg	98
96)	14dichlorobe	15.05	146	309177	0.0090	mg/kg	97
97)	12dichlorobe	15.60	146	304568	0.0093	mg/kg	99
98)	nButylbenzen	15.58	91	421188	0.0089	mg/kg	100
99)	12dibromo3cl	16.71	157	34592	0.0097	mg/kg	97
100)	135Trichlorobenzene	17.01	180	198142	0.0080	mg/kg	99
101)	124Trichlobe	17.82	180	178392	0.0078	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\CCVF1.D Vial: 25
Acq On : 28 Apr 2017 8:37 Operator: RLD-AGK
Sample : 137136,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 28 08:58:09 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102)	Hexachlorobu	18.05	225	135085	0.0093	mg/kg	95
103)	Naphthalene	18.13	128	424188	0.0097	mg/kg	99
104)	123Trichlben	18.44	180	187077	0.0087	mg/kg	100

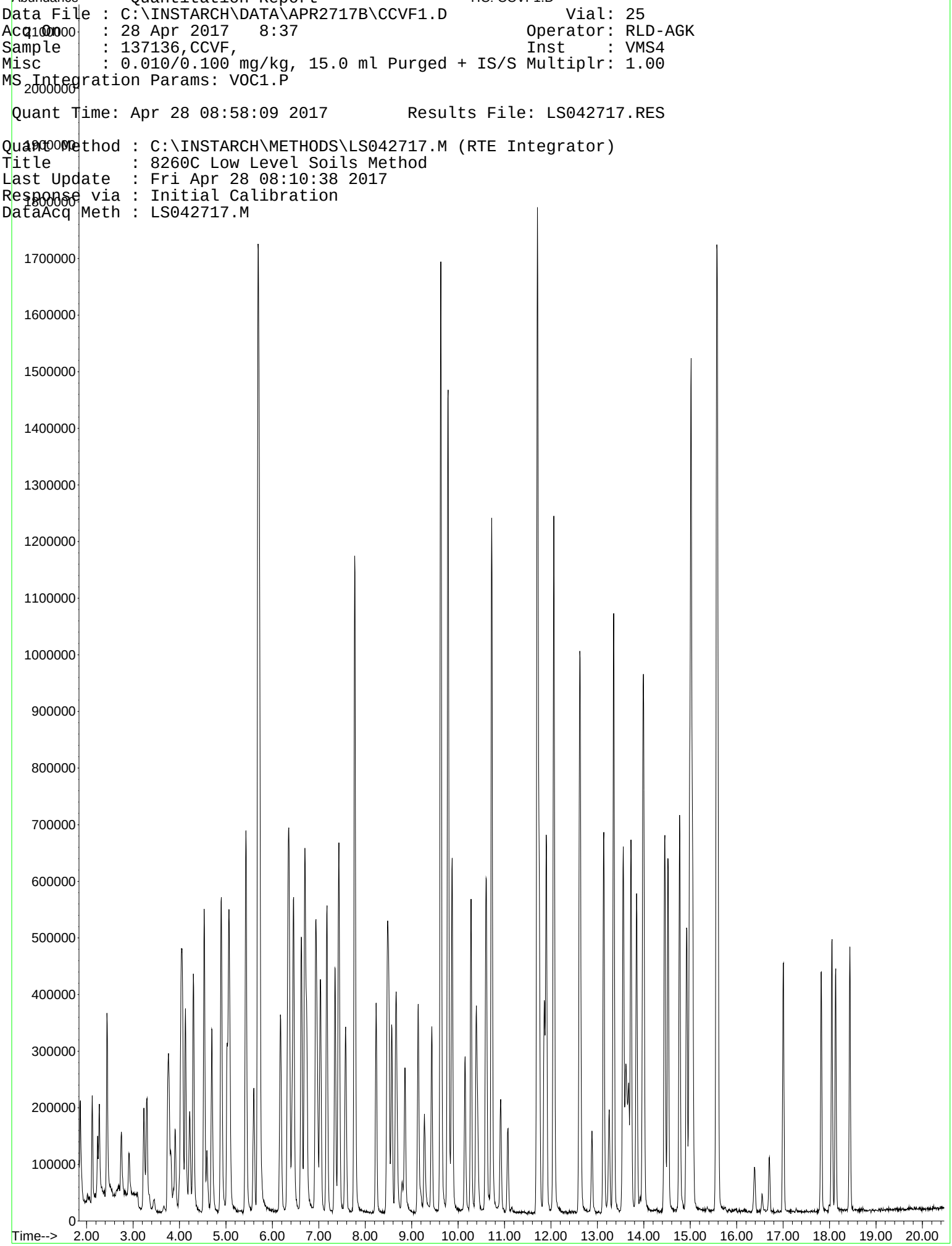
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCVF1.D

Data File : C:\INSTARCH\DATA\APR2717B\CCVF1.D Vial: 25
Acq On : 28 Apr 2017 8:37 Operator: RLD-AGK
Sample : 137136,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 28 08:58:09 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



BFB

Data File : C:\Instarch\Data\APR2717B\BFB2.D Vial: 26
Acq On : 28 Apr 2017 9:01 Operator: RLD-AGK
Sample : 137137,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\LS042717.M
Title : 8260C Low Level Soils Method

Spectrum Information: Average of 4.784 to 4.800 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	9634	PASS
75	95	30	60	44.9	23266	PASS
95	95	100	100	100.0	51862	PASS
96	95	5	9	7.4	3850	PASS
173	174	0.00	2	0.6	275	PASS
174	95	50	100	94.5	49029	PASS
175	174	5	9	8.0	3911	PASS
176	174	95	101	96.9	47508	PASS
177	176	5	9	7.5	3580	PASS

LS042717.M Wed May 03 15:56:52 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2717B\CCV2.D Vial: 27
Acq On : 28 Apr 2017 9:15 Operator: RLD-AGK
Sample : 137137,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 28 09:36:16 2017

Quant Method : C:\INSTARCH\METHODS\LS042717.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS042717.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	94	0.00
2	T	Dichlorodi	0.2301	0.2704	-17.51	104	0.00
3	PT	Chloromethan	0.3096	0.3591	-15.99	109	0.00
4	CT	VinylChlorid	0.2613	0.3008	-15.12	105	0.00
5	T	Bromomethane	0.1315	0.1550	-17.87	121	0.00
6	T	Chloroethane	0.1403	0.1494	-6.49	105	0.00
7	T	dichloroflmethane	0.3736	0.4047	-8.32	101	0.00
8	T	Trichlorofma	0.3225	0.3549	-10.05	104	0.00
9	T	Ethylether	0.1819	0.1994	-9.62	105	0.00
10	T	dichlorotfluoroethan	0.2312	0.2564	-10.90	102	0.00
11	T	propyleneoxide	0.0105	0.0150	-42.86#	153	0.00
12	T	Acrolein	0.0491	0.0534	-8.76	105	0.00
13	CT	11dichlorthe	0.1926	0.2114	-9.76	103	0.00
14	T	Trichlorotfluoroeth	0.1893	0.2159	-14.05	105	0.00
15	T	Acetone	0.0833	0.0918	-10.20	110	0.00
16	T	Iodomethane	0.2768	0.2318	16.26	86	0.00
17	T	Carbon Dislf	0.5599	0.6224	-11.16	103	0.00
18	T	allylchloride	0.3837	0.4192	-9.25	101	0.00
19	T	methylacetate	0.0404	0.0477	-18.07	120	0.00
20	T	Methylchlorid	0.3161	0.2852	9.78	98	0.00
21	T	Acrylonitrile	0.0801	0.0895	-11.74	107	0.00
22	T	t12dichlorte	0.2194	0.2364	-7.75	101	0.00
23	T	tbutylalcohol	0.0239	0.0261	-9.21	106	0.00
24	T	MtBE	0.5129	0.5533	-7.88	105	0.00
25	T	Hexane	0.2987	0.3493	-16.94	112	0.00
26	PT	11dichlorota	0.4090	0.4411	-7.85	101	0.00
27	T	Vinylacetate	0.4343	0.5111	-17.68	104	0.00
28	T	chloroprene	0.3779	0.4310	-14.05	104	0.00
29	T	Diisopether	0.8579	0.9352	-9.01	102	0.00
30	T	ETBE	0.5851	0.6684	-14.24	109	0.00
31	T	22dichloropr	0.2771	0.2994	-8.05	101	0.00
32	T	c12dichlorte	0.2448	0.2603	-6.33	101	0.00
33	T	2Butanone	0.0212	0.0233	-9.91	105	0.00
34	T	propionitrile	0.0322	0.0362	-12.42	106	0.00
35	T	Ethylacetate	0.0076	0.0084#	-10.53	101	0.00
36	T	methacrylonitrile	0.0824	0.0876	-6.31	102	0.00
37	T	Bromochlorma	0.1100	0.1199	-9.00	100	0.00
38	T	Tetrahydofur	0.0772	0.0850	-10.10	107	0.00
39	CT	Chloroform	0.3883	0.4202	-8.22	103	0.00
40	T	111trichlota	0.3356	0.3518	-4.83	98	0.00
41	S	SURRDibrflma	0.2574	0.2622	-1.86	96	0.00
42	T	Cyclohexane	0.3986	0.4521	-13.42	106	0.00
43	T	Carbtetraclo	0.2758	0.3040	-10.22	103	0.00
44	T	11dicloprope	0.1060	0.1152	-8.68	99	0.00
45	S	SURR12DCAd4	0.0573	0.0574	-0.17	97	0.00
46	T	Benzene	0.8581	0.9417	-9.74	104	0.00
47	T	12dichlorota	0.2946	0.3231	-9.67	106	0.00
48	T	TAME	0.4466	0.5152	-15.36	114	0.00

49	T	trichloroete	0.2253	0.2520	-11.85	106	0.00
50	T	methylcyclohexane	0.3429	0.3798	-10.76	103	0.00
51	CT	12dicloropra	0.2539	0.2735	-7.72	104	0.00
52	T	23dicl1propene	0.3316	0.3562	-7.42	100	0.00
53	T	Dibromometha	0.1322	0.1413	-6.88	101	0.00
54	T	methylmethacrylate	0.1398	0.1518	-8.58	107	0.00
55	T	14dioxane	0.0023	0.0024#	-4.35	102	0.00
56	T	Bromodiclrma	0.2844	0.2998	-5.41	98	0.00
57	T	2Nitropropane	0.0478	0.0480	-0.42	103	0.00
58	T	c13dicloproe	0.3463	0.3658	-5.63	102	0.00
59	T	4Meth2Pentan	0.2186	0.2579	-17.98	108	0.00
60	S	SURRd8Tolule	0.9798	1.0018	-2.25	95	0.00
61	CT	Toluene	0.5241	0.5797	-10.61	105	0.00
62	T	t13Dicloprop	0.2842	0.2882	-1.41	96	0.00
63	T	ethylmethacrylate	0.2590	0.2821	-8.92	105	0.00
64	T	112Triclotha	0.1591	0.1695	-6.54	103	0.00
65	T	Tetrachlorte	0.2663	0.2981	-11.94	104	0.00
66	T	13Diclorpropa	0.3177	0.3469	-9.19	104	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	95	0.00
68	T	2Hexanone	0.2037	0.2333	-14.53	110	0.00
69	T	Clorodibrmta	0.2858	0.2884	-0.91	101	0.00
70	T	12Dibrometha	0.2528	0.2664	-5.38	103	0.00
71	PT	Chlorobenzen	0.8032	0.8364	-4.13	100	0.00
72	T	1Clhexane	0.3718	0.3902	-4.95	102	0.00
73	T	1112Tetclota	0.2886	0.2997	-3.85	101	0.00
74	CT	Ethylbenzene	1.2927	1.3995	-8.26	103	0.00
75	T	m p-Xylene	0.4837	0.5127	-6.00	101	0.00
76	T	o-Xylene	0.4822	0.5182	-7.47	104	0.00
77	T	Styrene	0.8098	0.8747	-8.01	104	0.00
78	PT	Bromoform	0.1977	0.1953	1.21	101	0.00
79	T	Isopropylben	1.2826	1.3762	-7.30	101	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	99	0.00
81	T	cyclohexanone	0.0191	0.0201	-5.24	108	0.00
82	S	SURR4BrFBenz	0.8710	0.8446	3.03	96	0.00
83	T	Bromobenzene	0.6921	0.7141	-3.18	103	0.00
84	PT	1122Tetrclta	0.6026	0.6246	-3.65	102	0.00
85	T	123Triclproa	0.6627	0.7137	-7.70	107	0.00
86	T	14dichloro2butene	0.1572	0.1673	-6.42	111	0.00
87	T	n-Propylbenz	2.6533	2.8113	-5.95	102	0.00
88	T	2chlorotolue	1.6483	1.7206	-4.39	103	0.00
89	T	4chlorotolue	1.8783	1.9422	-3.40	102	0.00
90	T	135Trimebenz	1.8723	1.9753	-5.50	103	0.00
91	T	tbutylbenzen	1.7406	1.7659	-1.45	98	0.00
92	T	124Trimetben	1.8880	1.9855	-5.16	102	0.00
93	T	sbutylbenzen	2.4673	2.6483	-7.34	102	0.00
94	T	13Diclorbenz	1.2573	1.2990	-3.32	101	0.00
95	T	pIsopropylto	2.0457	2.1810	-6.61	103	0.00
96	T	14dichlorobe	1.2550	1.2986	-3.47	105	0.00
97	T	12dichlorobe	1.1960	1.2328	-3.08	103	0.00
98	T	nButylbenzen	1.7275	1.8534	-7.29	105	0.00
99	T	12dibromo3cl	0.1309	0.1276	2.52	104	0.00
100	T	135Trichlorobenzene	0.9058	0.9349	-3.21	103	0.00
101	T	124Trichlobe	0.8308	0.8793	-5.84	107	0.00
102	T	Hexachlorobu	0.5297	0.5463	-3.13	104	0.00
103	T	Naphthalene	1.6018	1.6695	-4.23	106	0.00
104	T	123Trichlben	0.7831	0.8164	-4.25	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS042717.M Wed May 03 16:36:16 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2717B\CCV2.D Vial: 27
Acq On : 28 Apr 2017 9:15 Operator: RLD-AGK
Sample : 137137,CCV, Inst : VMS4
Misc : 0.010/0.100 mg/kg, 15.0 ml Purged + IS/S Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 28 09:36:16 2017

Quant Method : C:\INSTARCH\METHODS\LS042717.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS042717.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	94	0.00
2	T	Dichlorodi	0.0100	0.0118	-18.00	104	0.00
3	PT	Chloromethan	0.0100	0.0116	-16.00	109	0.00
4	CT	VinylChlorid	0.0100	0.0115	-15.00	105	0.00
5	T	Bromomethane	0.0100	0.0118	-18.00	121	0.00
6	T	Chloroethane	0.0100	0.0106	-6.00	105	0.00
7	T	dichloroflmethane	0.0100	0.0108	-8.00	101	0.00
8	T	Trichlorofma	0.0100	0.0110	-10.00	104	0.00
9	T	Ethylether	0.0100	0.0110	-10.00	105	0.00
10	T	dichlorotfluoroethan	0.0100	0.0111	-11.00	102	0.00
11	T	propyleneoxide	0.1000	0.1451	-45.10#	153	0.00
12	T	Acrolein	0.0500	0.0544	-8.80	105	0.00
13	CT	11dichlorthe	0.0100	0.0110	-10.00	103	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0228	-14.00	105	0.00
15	T	Acetone	0.1000	0.1101	-10.10	110	0.00
16	T	Iodomethane	0.0200	0.0167	16.50	86	0.00
17	T	Carbon Dislf	0.0200	0.0222	-11.00	103	0.00
18	T	allylchloride	0.0200	0.0219	-9.50	101	0.00
19	T	methylacetate	0.0100	0.0118	-18.00	120	0.00
20	T	Methylchlorid	0.0100	0.0110	-10.00	98	0.00
21	T	Acrylonitrile	0.0500	0.0558	-11.60	107	0.00
22	T	t12dichlorte	0.0100	0.0108	-8.00	101	0.00
23	T	tbutylalcohol	0.5000	0.5464	-9.28	106	0.00
24	T	MtBE	0.0100	0.0108	-8.00	105	0.00
25	T	Hexane	0.0200	0.0234	-17.00	112	0.00
26	PT	11dichlorota	0.0100	0.0108	-8.00	101	0.00
27	T	Vinylacetate	0.1000	0.1177	-17.70	104	0.00
28	T	chloroprene	0.0200	0.0228	-14.00	104	0.00
29	T	Diisopether	0.0100	0.0109	-9.00	102	0.00
30	T	ETBE	0.0100	0.0114	-14.00	109	0.00
31	T	22dichloropr	0.0100	0.0108	-8.00	101	0.00
32	T	c12dichlorte	0.0100	0.0106	-6.00	101	0.00
33	T	2Butanone	0.1000	0.1097	-9.70	105	0.00
34	T	propionitrile	0.1000	0.1125	-12.50	106	0.00
35	T	Ethylacetate	0.0500	0.0557	-11.40	101	0.00
36	T	methacrylonitrile	0.0200	0.0213	-6.50	102	0.00
37	T	Bromochlorma	0.0100	0.0109	-9.00	100	0.00
38	T	Tetrahydofur	0.1000	0.1101	-10.10	107	0.00
39	CT	Chloroform	0.0100	0.0108	-8.00	103	0.00
40	T	111trichlota	0.0100	0.0105	-5.00	98	0.00
41	S	SURRDibrflma	0.0200	0.0204	-2.00	96	0.00
42	T	Cyclohexane	0.0100	0.0113	-13.00	106	0.00
43	T	Carbtetraclo	0.0100	0.0110	-10.00	103	0.00
44	T	11dicloprope	0.0100	0.0109	-9.00	99	0.00
45	S	SURR12DCAd4	0.0200	0.0200	0.00	97	0.00
46	T	Benzene	0.0100	0.0110	-10.00	104	0.00
47	T	12dichlorota	0.0100	0.0110	-10.00	106	0.00
48	T	TAME	0.0100	0.0115	-15.00	114	0.00

49	T	trichloroete	0.0100	0.0112	-12.00	106	0.00
50	T	methylcyclohexane	0.0100	0.0111	-11.00	103	0.00
51	CT	12dicloropra	0.0100	0.0108	-8.00	104	0.00
52	T	23dicl1propene	0.0100	0.0107	-7.00	100	0.00
53	T	Dibromometha	0.0100	0.0107	-7.00	101	0.00
54	T	methylmethacrylate	0.0100	0.0109	-9.00	107	0.00
55	T	14dioxane	0.5000	0.5282	-5.64	102	0.00
56	T	Bromodiclrma	0.0100	0.0105	-5.00	98	0.00
57	T	2Nitropropane	0.1000	0.0957	4.30	103	0.00
58	T	c13dicloproe	0.0100	0.0106	-6.00	102	0.00
59	T	4Meth2Pentan	0.1000	0.1180	-18.00	108	0.00
60	S	SURRd8Tolule	0.0200	0.0204	-2.00	95	0.00
61	CT	Toluene	0.0100	0.0111	-11.00	105	0.00
62	T	t13Dicloprop	0.0100	0.0101	-1.00	96	0.00
63	T	ethylmethacrylate	0.0200	0.0218	-9.00	105	0.00
64	T	112Triclotha	0.0100	0.0107	-7.00	103	0.00
65	T	Tetrachlorte	0.0100	0.0112	-12.00	104	0.00
66	T	13Diclorpropa	0.0100	0.0109	-9.00	104	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	95	0.00
68	T	2Hexanone	0.1000	0.1145	-14.50	110	0.00
69	T	Clorodibrmta	0.0100	0.0101	-1.00	101	0.00
70	T	12Dibrometha	0.0100	0.0105	-5.00	103	0.00
71	PT	Chlorobenzen	0.0100	0.0104	-4.00	100	0.00
72	T	1Clhexane	0.0100	0.0105	-5.00	102	0.00
73	T	1112Tetclota	0.0100	0.0104	-4.00	101	0.00
74	CT	Ethylbenzene	0.0100	0.0108	-8.00	103	0.00
75	T	m p-Xylene	0.0200	0.0212	-6.00	101	0.00
76	T	o-Xylene	0.0100	0.0107	-7.00	104	0.00
77	T	Styrene	0.0100	0.0108	-8.00	104	0.00
78	PT	Bromoform	0.0100	0.0099	1.00	101	0.00
79	T	Isopropylben	0.0100	0.0107	-7.00	101	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	99	0.00
81	T	cyclohexanone	0.2000	0.2099	-4.95	108	0.00
82	S	SURR4BrFBenz	0.0200	0.0194	3.00	96	0.00
83	T	Bromobenzene	0.0100	0.0103	-3.00	103	0.00
84	PT	1122Tetrclta	0.0100	0.0104	-4.00	102	0.00
85	T	123Triclproa	0.0100	0.0108	-8.00	107	0.00
86	T	14dichloro2butene	0.0100	0.0106	-6.00	111	0.00
87	T	n-Propylbenz	0.0100	0.0106	-6.00	102	0.00
88	T	2chlorotolue	0.0100	0.0104	-4.00	103	0.00
89	T	4chlorotolue	0.0100	0.0103	-3.00	102	0.00
90	T	135Trimebenz	0.0100	0.0105	-5.00	103	0.00
91	T	tbutylbenzen	0.0100	0.0101	-1.00	98	0.00
92	T	124Trimetben	0.0100	0.0105	-5.00	102	0.00
93	T	sbutylbenzen	0.0100	0.0107	-7.00	102	0.00
94	T	13Diclorbenz	0.0100	0.0103	-3.00	101	0.00
95	T	pIsopropylto	0.0100	0.0107	-7.00	103	0.00
96	T	14dichlorobe	0.0100	0.0103	-3.00	105	0.00
97	T	12dichlorobe	0.0100	0.0103	-3.00	103	0.00
98	T	nButylbenzen	0.0100	0.0107	-7.00	105	0.00
99	T	12dibromo3cl	0.0100	0.0097	3.00	104	0.00
100	T	135Trichlorobenzene	0.0100	0.0103	-3.00	103	0.00
101	T	124Trichlobe	0.0100	0.0106	-6.00	107	0.00
102	T	Hexachlorobu	0.0100	0.0103	-3.00	104	0.00
103	T	Naphthalene	0.0100	0.0104	-4.00	106	0.00
104	T	123Trichlben	0.0100	0.0104	-4.00	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS042717.M Wed May 03 16:35:53 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\CCV2.D Vial: 27
Acq On : 28 Apr 2017 9:15 Operator: RLD-AGK
Sample : 137137,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 28 09:36:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1271292	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	1011516	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	570539	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	333287	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	72970	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.78	98	1273640	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	481853	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	171882	0.0118	mg/kg	99
3) Chloromethan	2.12	50	228285	0.0116	mg/kg	97
4) VinylChlorid	2.27	62	191205	0.0115	mg/kg	99
5) Bromomethane	2.75	94	98544	0.0118	mg/kg	97
6) Chloroethane	2.91	64	94968	0.0106	mg/kg	99
7) dichloroflmethane	3.23	67	257250	0.0108	mg/kg	98
8) Trichlorofma	3.30	101	225572	0.0110	mg/kg	97
9) Ethylether	3.75	59	126769	0.0110	mg/kg	97
10) dichlorotfluoroethan	3.77	67	163000	0.0111	mg/kg	98
11) propyleneoxide	3.81	58	95297	0.1451	mg/kg	99
12) Acrolein	3.90	56	169701	0.0544	mg/kg	86
13) 11dichlorthe	4.03	96	134365	0.0110	mg/kg	95
14) Trichlorotfluoroeth	4.06	101	274512	0.0228	mg/kg	98
15) Acetone	4.13	43	583234	0.1101	mg/kg	96
16) Iodomethane	4.22	142	294682	0.0167	mg/kg	98
17) Carbon Dislf	4.30	76	791252	0.0222	mg/kg	100
18) allylchloride	4.53	41	532970	0.0219	mg/kg	99
19) methylacetate	4.59	74	30293	0.0118	mg/kg	91
20) Methylchlorid	4.69	84	181296	0.0110	mg/kg	97
21) Acrylonitrile	5.02	53	284495	0.0558	mg/kg	99
22) t12dichlorte	5.06	96	150282	0.0108	mg/kg	97
23) tbutylalcohol	4.90	59	830655	0.5464	mg/kg	97
24) MtBE	5.07	73	351678	0.0108	mg/kg	99
25) Hexane	5.43	57	444103	0.0234	mg/kg	99
26) 11dichlorota	5.60	63	280352	0.0108	mg/kg	100
27) Vinylacetate	5.69	43	3248833	0.1177	mg/kg	100
28) chloroprene	5.72	53	547868	0.0228	mg/kg	99
29) Diisopether	5.72	45	594453	0.0109	mg/kg	97
30) ETBE	6.17	59	424849	0.0114	mg/kg	99
31) 22dichloropr	6.34	77	190326	0.0108	mg/kg	99
32) c12dichlorte	6.34	96	165452	0.0106	mg/kg	96
33) 2Butanone	6.36	72	148030	0.1097	mg/kg	97
34) propionitrile	6.42	54	230413	0.1125	mg/kg	97
35) Ethylacetate	6.46	88	26717	0.0557	mg/kg#	88
36) methacrylonitrile	6.62	67	111333	0.0213	mg/kg	91
37) Bromochlorma	6.64	128	76201	0.0109	mg/kg	94
38) Tetrahydofur	6.70	42	540524	0.1101	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\CCV2.D Vial: 27
Acq On : 28 Apr 2017 9:15 Operator: RLD-AGK
Sample : 137137,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 28 09:36:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	267080	0.0108	mg/kg	99
40)	111trichlota	6.96	97	223623	0.0105	mg/kg	99
42)	Cyclohexane	7.04	56	287389	0.0113	mg/kg	98
43)	Carbtetraclo	7.18	119	193231	0.0110	mg/kg	97
44)	11dicloprope	7.17	110	73241	0.0109	mg/kg	95
46)	Benzene	7.43	78	598558	0.0110	mg/kg	99
47)	12dichlorota	7.44	62	205383	0.0110	mg/kg	100
48)	TAME	7.58	73	327490	0.0115	mg/kg	98
49)	trichloroete	8.24	95	160162	0.0112	mg/kg	98
50)	methylcyclohexane	8.48	83	241396	0.0111	mg/kg	97
51)	12dicloropra	8.51	63	173867	0.0108	mg/kg	98
52)	23dicl1propene	8.57	75	226438	0.0107	mg/kg	99
53)	Dibromometha	8.65	93	89847	0.0107	mg/kg	95
54)	methylmethacrylate	8.67	69	96483	0.0109	mg/kg	98
55)	14dioxane	8.69	88	77124	0.5282	mg/kg	95
56)	Bromodiclrma	8.86	83	190537	0.0105	mg/kg	95
57)	2Nitropropane	9.14	43	305225	0.0957	mg/kg	99
58)	c13dicloproe	9.43	75	232517	0.0106	mg/kg	100
59)	4Meth2Pentan	9.63	43	1639420	0.1180	mg/kg	99
61)	Toluene	9.87	92	368457	0.0111	mg/kg	95
62)	t13Dicloprop	10.15	75	183220	0.0101	mg/kg	96
63)	ethylmethacrylate	10.27	69	358634	0.0218	mg/kg	99
64)	112Triclotha	10.39	83	107743	0.0107	mg/kg	97
65)	Tetrachlorte	10.60	166	189506	0.0112	mg/kg	100
66)	13Diclorpropa	10.61	76	220501	0.0109	mg/kg	99
68)	2Hexanone	10.72	43	1180115	0.1145	mg/kg	100
69)	Clorodibrmta	10.92	129	145851	0.0101	mg/kg	98
70)	12Dibrometha	11.07	107	134751	0.0105	mg/kg	99
71)	Chlorobenzen	11.75	112	423023	0.0104	mg/kg	98
72)	1Clhexane	11.71	91	197362	0.0105	mg/kg	98
73)	1112Tetclota	11.86	131	151567	0.0104	mg/kg	98
74)	Ethylbenzene	11.90	91	707808	0.0108	mg/kg	97
75)	m p-Xylene	12.06	106	518623	0.0212	mg/kg	99
76)	o-Xylene	12.61	106	262097	0.0107	mg/kg	97
77)	Styrene	12.63	104	442370	0.0108	mg/kg	97
78)	Bromoform	12.88	173	98779	0.0099	mg/kg	98
79)	Isopropylben	13.13	105	696039	0.0107	mg/kg	99
81)	cyclohexanone	13.25	55	114582	0.2099	mg/kg	98
83)	Bromobenzene	13.56	156	203700	0.0103	mg/kg	100
84)	1122Tetrclta	13.55	83	178191	0.0104	mg/kg	99
85)	123Triclproa	13.61	75	203598	0.0108	mg/kg	98
86)	14dichloro2butene	13.64	53	47737	0.0106	mg/kg	92
87)	n-Propylbenz	13.72	91	801990	0.0106	mg/kg	100
88)	2chlorotolue	13.84	91	490840	0.0104	mg/kg	98
89)	4chlorotolue	14.00	91	554038	0.0103	mg/kg	100
90)	135Trimebenz	13.98	105	563496	0.0105	mg/kg	99
91)	tbutylbenzen	14.45	119	503752	0.0101	mg/kg	97
92)	124Trimetben	14.52	105	566398	0.0105	mg/kg	99
93)	sbutylbenzen	14.77	105	755472	0.0107	mg/kg	99
94)	13Diclorbenz	14.92	146	370553	0.0103	mg/kg	99
95)	pIsopropylto	14.98	119	622170	0.0107	mg/kg	99
96)	14dichlorobe	15.05	146	370460	0.0103	mg/kg	100
97)	12dichlorobe	15.60	146	351679	0.0103	mg/kg	99
98)	nButylbenzen	15.58	91	528707	0.0107	mg/kg	98
99)	12dibromo3cl	16.70	157	36388	0.0097	mg/kg	100
100)	135Trichlorobenzene	17.00	180	266711	0.0103	mg/kg	98
101)	124Trichlobe	17.82	180	250846	0.0106	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\CCV2.D Vial: 27
Acq On : 28 Apr 2017 9:15 Operator: RLD-AGK
Sample : 137137,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 28 09:36:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	155853	0.0103 mg/kg	97
103) Naphthalene	18.13	128	476259	0.0104 mg/kg	99
104) 123Trichlben	18.44	180	232886	0.0104 mg/kg	99

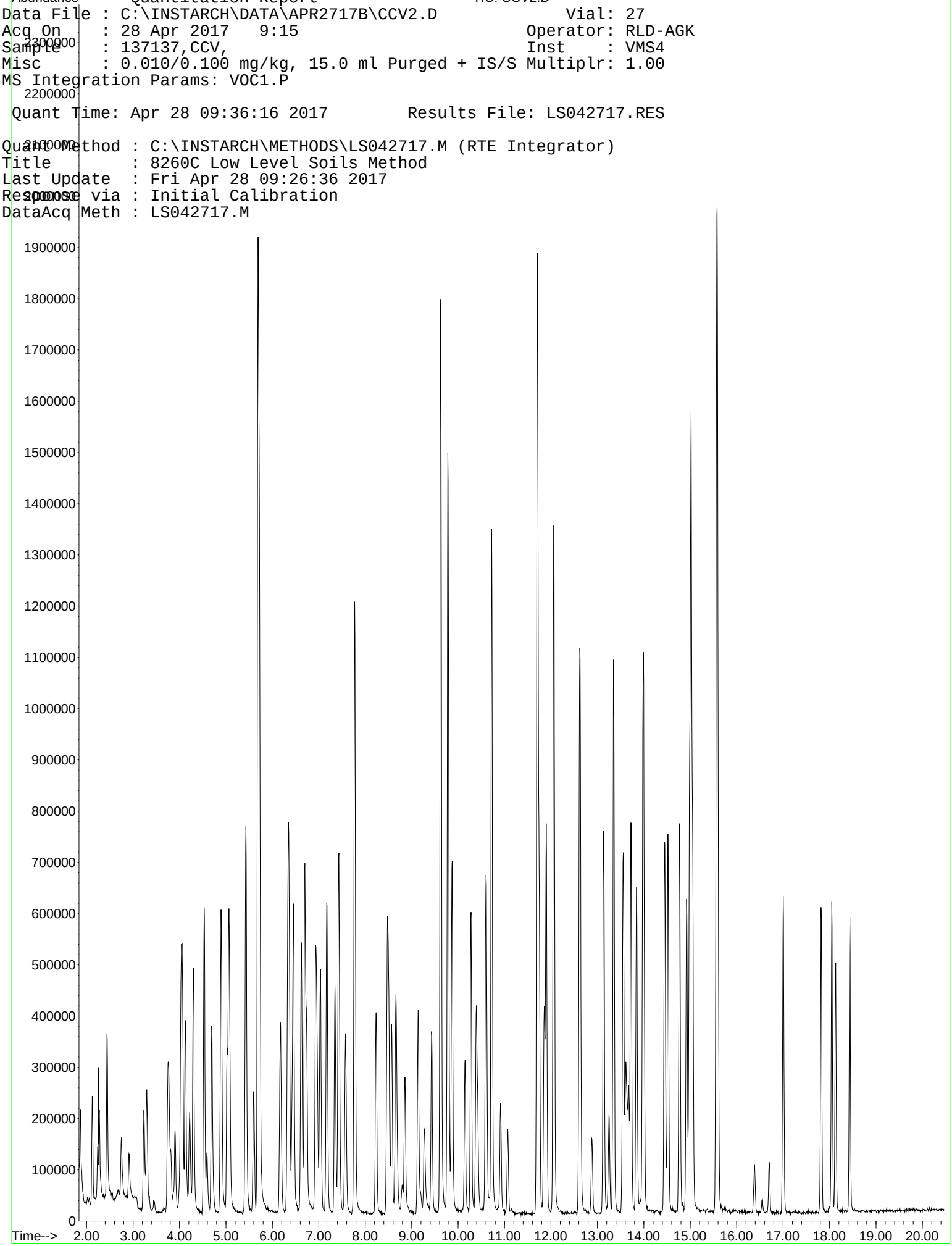
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: CCV2.D

Data File : C:\INSTARCH\DATA\APR2717B\CCV2.D Vial: 27
Acq On : 28 Apr 2017 9:15 Operator: RLD-AGK
Sample : 137137,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 28 09:36:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\MB2-CCB1.D Vial: 30
Acq On : 28 Apr 2017 10:42 Operator: RLD-AGK
Sample : 137137,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:02:55 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1203431	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	950853	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	518550	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	311500	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	68398	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1195365	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	447215	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	18917	0.0014	mg/kg	98
3) Chloromethan	2.13	50	3673	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.74	94	1812	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.13	43	37893	N.D.		
16) Iodomethane	4.21	142	4762	N.D.		
17) Carbon Dislf	4.31	76	2488	N.D.		
18) allylchloride	4.51	41	30580	0.0013	mg/kg#	51
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	13576	Below	Cal	91
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	5874	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.42	57	2025	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	6.72	42	7201	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\MB2-CCB1.D Vial: 30
Acq On : 28 Apr 2017 10:42 Operator: RLD-AGK
Sample : 137137,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:02:55 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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	7.43	78	3411	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	9.13	43	2719	0.0111 mg/kg#	11
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.63	43	6950	N.D.	
61)	Toluene	9.87	92	3059	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	10.72	43	9731	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	11.70	91	2276	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.91	91	1020	N.D.	
75)	m p-Xylene	12.09	106	1756	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	12.63	104	2430	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.24	55	2021	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	5520	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.74	91	1871	N.D.	
88)	2chlorotolue	13.84	91	1198	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	13.99	105	1078	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.52	105	6967	N.D.	
93)	sbutylbenzen	14.76	105	1644	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.98	119	2293	N.D.	
96)	14dichlorobe	15.04	146	1206	N.D.	
97)	12dichlorobe	15.60	146	1049	N.D.	
98)	nButylbenzen	15.58	91	3376	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	17.00	180	2319	N.D.	
101)	124Trichlobe	17.83	180	2596	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\MB2-CCB1.D Vial: 30
Acq On : 28 Apr 2017 10:42 Operator: RLD-AGK
Sample : 137137,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:02:55 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	8434	N.D.	
104) 123Trichlben	18.43	180	2724	N.D.	

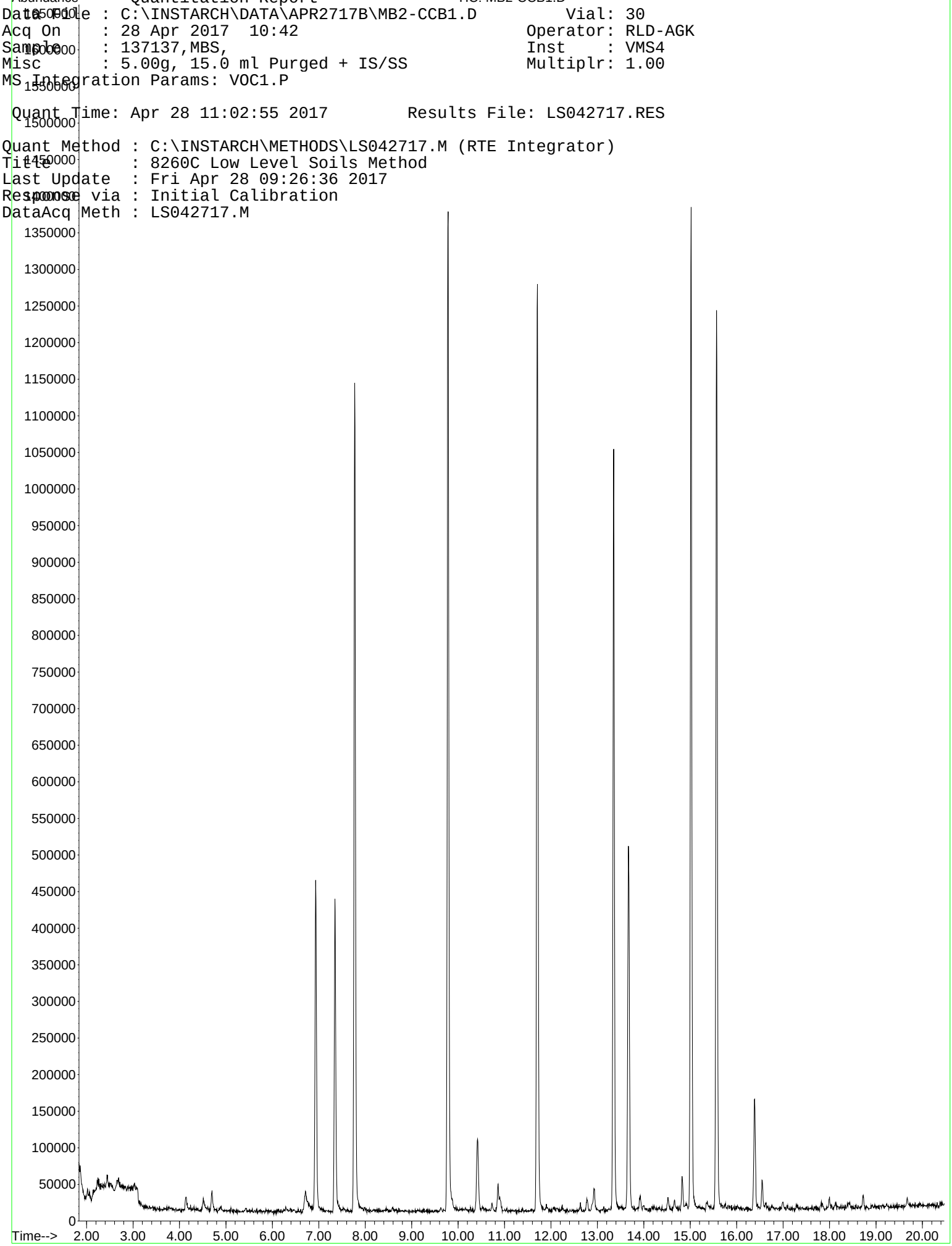
(#) = qualifier out of range (m) = manual integration

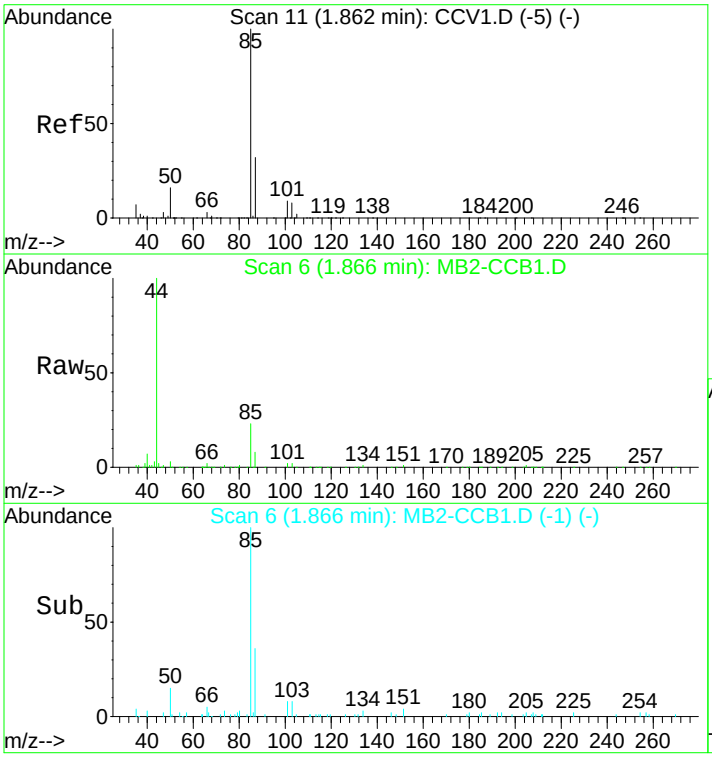
Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\MB2-CCB1.D Vial: 30
Acq On : 28 Apr 2017 10:42 Operator: RLD-AGK
Sample : 137137,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:02:55 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

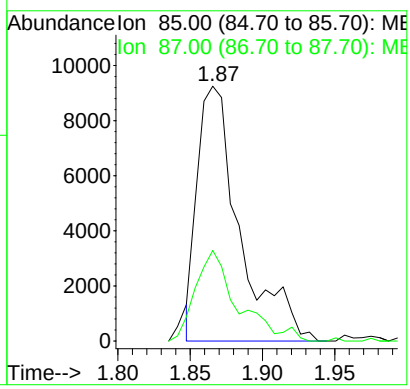




#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: MB2-CCB1.D
Acq: 28 Apr 2017 10:42

Tgt Ion: 85 Resp: 18917

Ion	Ratio	Lower	Upper
85	100		
87	33.1	11.9	51.9



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2717B\LCSD-CCVF2.D Vial: 43
Acq On : 28 Apr 2017 16:57 Operator: RLD-AGK
Sample : 137137,LCSDS, Inst : VMS4
Misc : 5.00g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 28 17:18:32 2017

Quant Method : C:\INSTARCH\METHODS\LS042717.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS042717.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	92	0.00
2	T	Dichlorodi	0.2301	0.3177	-38.07	119	0.00
3	PT	Chloromethan	0.3096	0.3245	-4.81	96	0.01
4	CT	VinylChlorid	0.2613	0.2750	-5.24	94	0.00
5	T	Bromomethane	0.1315	0.1352	-2.81	103	0.00
6	T	Chloroethane	0.1403	0.1368	2.49	94	0.00
7	T	dichloroflmethane	0.3736	0.3723	0.35	91	0.00
8	T	Trichlorofma	0.3225	0.3219	0.19	92	0.00
9	T	Ethylether	0.1819	0.1846	-1.48	95	0.00
10	T	dichlorotfluoroethan	0.2312	0.2297	0.65	89	0.00
11	T	propyleneoxide	0.0105	0.0156	-48.57	156	0.00
12	T	Acrolein	0.0491	0.0469	4.48	90	0.00
13	CT	11dichlorthe	0.1926	0.1923	0.16	91	0.00
14	T	Trichlorotfluoroeth	0.1893	0.1974	-4.28	94	0.00
15	T	Acetone	0.0833	0.0869	-4.32	102	0.00
16	T	Iodomethane	0.2768	0.1991	28.07	72	0.00
17	T	Carbon Dislf	0.5599	0.5681	-1.46	92	0.00
18	T	allylchloride	0.3837	0.3975	-3.60	94	0.00
19	T	methylacetate	0.0404	0.0440	-8.91	108	0.00
20	T	Methylchlorid	0.3161	0.2762	12.62	93	0.00
21	T	Acrylonitrile	0.0801	0.0842	-5.12	98	0.00
22	T	t12dichlorte	0.2194	0.2174	0.91	90	0.00
23	T	tbutylalcohol	0.0239	0.0230	3.77	91	0.00
24	T	MtBE	0.5129	0.5410	-5.48	101	0.00
25	T	Hexane	0.2987	0.3265	-9.31	102	0.00
26	PT	11dichlorota	0.4090	0.4224	-3.28	94	0.00
27	T	Vinylacetate	0.4343	0.4223	2.76	84	0.00
28	T	chloroprene	0.3779	0.3966	-4.95	94	0.00
29	T	Diisopether	0.8579	0.8991	-4.80	96	0.00
30	T	ETBE	0.5851	0.6385	-9.13	102	0.00
31	T	22dichloropr	0.2771	0.2799	-1.01	92	0.00
32	T	c12dichlorte	0.2448	0.2446	0.08	93	0.00
33	T	2Butanone	0.0212	0.0215	-1.42	94	0.00
34	T	propionitrile	0.0322	0.0334	-3.73	95	0.00
35	T	Ethylacetate	0.0076	0.0078#	-2.63	91	0.00
36	T	methacrylonitrile	0.0824	0.0813	1.33	92	0.00
37	T	Bromochlorma	0.1100	0.1162	-5.64	95	0.00
38	T	Tetrahydofur	0.0772	0.0794	-2.85	98	0.00
39	CT	Chloroform	0.3883	0.3936	-1.36	94	0.00
40	T	111trichlota	0.3356	0.3274	2.44	89	0.00
41	S	SURRDibrflma	0.2574	0.2567	0.27	92	0.00
42	T	Cyclohexane	0.3986	0.4076	-2.26	93	0.00
43	T	Carbtetraclo	0.2758	0.2656	3.70	88	0.00
44	T	11dicloprope	0.1060	0.1045	1.42	88	0.00
45	S	SURR12DCAd4	0.0573	0.0608	-6.11	100	0.00
46	T	Benzene	0.8581	0.8774	-2.25	95	0.00
47	T	12dichlorota	0.2946	0.3018	-2.44	97	0.00
48	T	TAME	0.4466	0.4995	-11.85	108	0.00

49	T	trichloroete	0.2253	0.2351	-4.35	97	0.00
50	T	methylcyclohexane	0.3429	0.3442	-0.38	91	0.00
51	CT	12dicloropra	0.2539	0.2559	-0.79	95	0.00
52	T	23dicl1propene	0.3316	0.3473	-4.73	95	0.00
53	T	Dibromometha	0.1322	0.1348	-1.97	94	0.00
54	T	methylmethacrylate	0.1398	0.1280	8.44	88	0.00
55	T	14dioxane	0.0023	0.0021#	8.70	88	0.00
56	T	Bromodiclrma	0.2844	0.2775	2.43	89	0.00
57	T	2Nitropropane	0.0478	0.0400	16.32	84	0.00
58	T	c13dicloproe	0.3463	0.3385	2.25	92	0.00
59	T	4Meth2Pentan	0.2186	0.2449	-12.03	100	0.00
60	S	SURRd8Tolule	0.9798	0.9826	-0.29	91	0.00
61	CT	Toluene	0.5241	0.5196	0.86	92	0.00
62	T	t13Dicloprop	0.2842	0.2756	3.03	89	0.00
63	T	ethylmethacrylate	0.2590	0.2591	-0.04	95	0.00
64	T	112Triclotha	0.1591	0.1631	-2.51	96	0.00
65	T	Tetrachlorte	0.2663	0.2694	-1.16	92	0.00
66	T	13Diclorpropa	0.3177	0.3246	-2.17	95	0.00
67	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	92	0.00
68	T	2Hexanone	0.2037	0.2239	-9.92	101	0.00
69	T	Clorodibrmta	0.2858	0.2730	4.48	92	0.00
70	T	12Dibrometha	0.2528	0.2559	-1.23	95	0.00
71	PT	Chlorobenzen	0.8032	0.7823	2.60	90	0.00
72	T	1Clhexane	0.3718	0.3477	6.48	87	0.00
73	T	1112Tetclota	0.2886	0.2811	2.60	91	0.00
74	CT	Ethylbenzene	1.2927	1.2971	-0.34	92	0.00
75	T	m p-Xylene	0.4837	0.4669	3.47	89	0.00
76	T	o-Xylene	0.4822	0.4848	-0.54	93	0.00
77	T	Styrene	0.8098	0.8117	-0.23	93	0.00
78	PT	Bromoform	0.1977	0.1755	11.23	87	0.00
79	T	Isopropylben	1.2826	1.2841	-0.12	91	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	94	0.00
81	T	cyclohexanone	0.0191	0.0178	6.81	92	0.00
82	S	SURR4BrFBenz	0.8710	0.8471	2.74	92	0.00
83	T	Bromobenzene	0.6921	0.6626	4.26	92	0.00
84	PT	1122Tetrclta	0.6026	0.6043	-0.28	94	0.00
85	T	123Triclproa	0.6627	0.6645	-0.27	96	0.00
86	T	14dichloro2butene	0.1572	0.1634	-3.94	104	0.00
87	T	n-Propylbenz	2.6533	2.5553	3.69	89	0.00
88	T	2chlorotolue	1.6483	1.5783	4.25	91	0.00
89	T	4chlorotolue	1.8783	1.8377	2.16	93	0.00
90	T	135Trimebenz	1.8723	1.8410	1.67	92	0.00
91	T	tbutylbenzen	1.7406	1.6760	3.71	89	0.00
92	T	124Trimetben	1.8880	1.8335	2.89	90	0.00
93	T	sbutylbenzen	2.4673	2.4529	0.58	90	0.00
94	T	13Diclorbenz	1.2573	1.2001	4.55	89	0.00
95	T	pIsopropylto	2.0457	1.9911	2.67	90	0.00
96	T	14dichlorobe	1.2550	1.1962	4.69	92	0.00
97	T	12dichlorobe	1.1960	1.1802	1.32	94	0.00
98	T	nButylbenzen	1.7275	1.6940	1.94	92	0.00
99	T	12dibromo3cl	0.1309	0.1240	5.27	97	0.00
100	T	135Trichlorobenzene	0.9058	0.8685	4.12	91	0.00
101	T	124Trichlobe	0.8308	0.7999	3.72	93	0.00
102	T	Hexachlorobu	0.5297	0.5106	3.61	93	0.00
103	T	Naphthalene	1.6018	1.5760	1.61	96	0.00
104	T	123Trichlben	0.7831	0.7691	1.79	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS042717.M Wed May 03 16:39:24 2017

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\APR2717B\LCSD-CCVF2.D Vial: 43
Acq On : 28 Apr 2017 16:57 Operator: RLD-AGK
Sample : 137137,LCSDS, Inst : VMS4
Misc : 5.00g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
Integrator: RTE

Quant Time: Apr 28 17:18:32 2017

Quant Method : C:\INSTARCH\METHODS\LS042717.M
Quant Title : 8260C Low Level Soils Method
Response via : Initial Calibration
DataAcq Meth:LS042717.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	92	0.00
2	T	Dichlorodi	0.0100	0.0138	-38.00	119	0.00
3	PT	Chloromethan	0.0100	0.0105	-5.00	96	0.01
4	CT	VinylChlorid	0.0100	0.0105	-5.00	94	0.00
5	T	Bromomethane	0.0100	0.0103	-3.00	103	0.00
6	T	Chloroethane	0.0100	0.0098	2.00	94	0.00
7	T	dichloroflmethane	0.0100	0.0100	0.00	91	0.00
8	T	Trichlorofma	0.0100	0.0100	0.00	92	0.00
9	T	Ethylether	0.0100	0.0101	-1.00	95	0.00
10	T	dichlorotfluoroethan	0.0100	0.0099	1.00	89	0.00
11	T	propyleneoxide	0.1000	0.1506	-50.60#	156	0.00
12	T	Acrolein	0.0500	0.0478	4.40	90	0.00
13	CT	11dichlorthe	0.0100	0.0100	0.00	91	0.00
14	T	Trichlorotfluoroeth	0.0200	0.0208	-4.00	94	0.00
15	T	Acetone	0.1000	0.1043	-4.30	102	0.00
16	T	Iodomethane	0.0200	0.0144	28.00	72	0.00
17	T	Carbon Dislf	0.0200	0.0203	-1.50	92	0.00
18	T	allylchloride	0.0200	0.0207	-3.50	94	0.00
19	T	methylacetate	0.0100	0.0109	-9.00	108	0.00
20	T	Methylchlorid	0.0100	0.0106	-6.00	93	0.00
21	T	Acrylonitrile	0.0500	0.0525	-5.00	98	0.00
22	T	t12dichlorte	0.0100	0.0099	1.00	90	0.00
23	T	tbutylalcohol	0.5000	0.4807	3.86	91	0.00
24	T	MtBE	0.0100	0.0105	-5.00	101	0.00
25	T	Hexane	0.0200	0.0219	-9.50	102	0.00
26	PT	11dichlorota	0.0100	0.0103	-3.00	94	0.00
27	T	Vinylacetate	0.1000	0.0973	2.70	84	0.00
28	T	chloroprene	0.0200	0.0210	-5.00	94	0.00
29	T	Diisopether	0.0100	0.0105	-5.00	96	0.00
30	T	ETBE	0.0100	0.0109	-9.00	102	0.00
31	T	22dichloropr	0.0100	0.0101	-1.00	92	0.00
32	T	c12dichlorte	0.0100	0.0100	0.00	93	0.00
33	T	2Butanone	0.1000	0.1010	-1.00	94	0.00
34	T	propionitrile	0.1000	0.1037	-3.70	95	0.00
35	T	Ethylacetate	0.0500	0.0518	-3.60	91	0.00
36	T	methacrylonitrile	0.0200	0.0197	1.50	92	0.00
37	T	Bromochlorma	0.0100	0.0106	-6.00	95	0.00
38	T	Tetrahydofur	0.1000	0.1028	-2.80	98	0.00
39	CT	Chloroform	0.0100	0.0101	-1.00	94	0.00
40	T	111trichlota	0.0100	0.0098	2.00	89	0.00
41	S	SURRDibrflma	0.0200	0.0199	0.50	92	0.00
42	T	Cyclohexane	0.0100	0.0102	-2.00	93	0.00
43	T	Carbtetraclo	0.0100	0.0096	4.00	88	0.00
44	T	11dicloprope	0.0100	0.0099	1.00	88	0.00
45	S	SURR12DCAd4	0.0200	0.0212	-6.00	100	0.00
46	T	Benzene	0.0100	0.0102	-2.00	95	0.00
47	T	12dichlorota	0.0100	0.0102	-2.00	97	0.00
48	T	TAME	0.0100	0.0112	-12.00	108	0.00

49	T	trichloroete	0.0100	0.0104	-4.00	97	0.00
50	T	methylcyclohexane	0.0100	0.0100	0.00	91	0.00
51	CT	12dicloropra	0.0100	0.0101	-1.00	95	0.00
52	T	23dicl1propene	0.0100	0.0105	-5.00	95	0.00
53	T	Dibromometha	0.0100	0.0102	-2.00	94	0.00
54	T	methylmethacrylate	0.0100	0.0092	8.00	88	0.00
55	T	14dioxane	0.5000	0.4650	7.00	88	0.00
56	T	Bromodiclrma	0.0100	0.0098	2.00	89	0.00
57	T	2Nitropropane	0.1000	0.0815	18.50	84	0.00
58	T	c13dicloproe	0.0100	0.0098	2.00	92	0.00
59	T	4Meth2Pentan	0.1000	0.1120	-12.00	100	0.00
60	S	SURRd8Tolule	0.0200	0.0201	-0.50	91	0.00
61	CT	Toluene	0.0100	0.0099	1.00	92	0.00
62	T	t13Dicloprop	0.0100	0.0097	3.00	89	0.00
63	T	ethylmethacrylate	0.0200	0.0200	0.00	95	0.00
64	T	112Triclotha	0.0100	0.0102	-2.00	96	0.00
65	T	Tetrachlorte	0.0100	0.0101	-1.00	92	0.00
66	T	13Diclorpropa	0.0100	0.0102	-2.00	95	0.00
67	I	d5-CHLOROBENZENE**ISTD**	0.0200	0.0200	0.00	92	0.00
68	T	2Hexanone	0.1000	0.1099	-9.90	101	0.00
69	T	Clorodibrmta	0.0100	0.0096	4.00	92	0.00
70	T	12Dibrometha	0.0100	0.0101	-1.00	95	0.00
71	PT	Chlorobenzen	0.0100	0.0097	3.00	90	0.00
72	T	1Clhexane	0.0100	0.0094	6.00	87	0.00
73	T	1112Tetclota	0.0100	0.0097	3.00	91	0.00
74	CT	Ethylbenzene	0.0100	0.0100	0.00	92	0.00
75	T	m p-Xylene	0.0200	0.0193	3.50	89	0.00
76	T	o-Xylene	0.0100	0.0101	-1.00	93	0.00
77	T	Styrene	0.0100	0.0100	0.00	93	0.00
78	PT	Bromoform	0.0100	0.0089	11.00	87	0.00
79	T	Isopropylben	0.0100	0.0100	0.00	91	0.00
80	I	d4-1,4-DICHLOROBENZENE**IS	0.0200	0.0200	0.00	94	0.00
81	T	cyclohexanone	0.2000	0.1860	7.00	92	0.00
82	S	SURR4BrFBenz	0.0200	0.0195	2.50	92	0.00
83	T	Bromobenzene	0.0100	0.0096	4.00	92	0.00
84	PT	1122Tetrclta	0.0100	0.0100	0.00	94	0.00
85	T	123Triclproa	0.0100	0.0100	0.00	96	0.00
86	T	14dichloro2butene	0.0100	0.0104	-4.00	104	0.00
87	T	n-Propylbenz	0.0100	0.0096	4.00	89	0.00
88	T	2chlorotolue	0.0100	0.0096	4.00	91	0.00
89	T	4chlorotolue	0.0100	0.0098	2.00	93	0.00
90	T	135Trimebenz	0.0100	0.0098	2.00	92	0.00
91	T	tbutylbenzen	0.0100	0.0096	4.00	89	0.00
92	T	124Trimetben	0.0100	0.0097	3.00	90	0.00
93	T	sbutylbenzen	0.0100	0.0099	1.00	90	0.00
94	T	13Diclorbenz	0.0100	0.0095	5.00	89	0.00
95	T	pIsopropylto	0.0100	0.0097	3.00	90	0.00
96	T	14dichlorobe	0.0100	0.0095	5.00	92	0.00
97	T	12dichlorobe	0.0100	0.0099	1.00	94	0.00
98	T	nButylbenzen	0.0100	0.0098	2.00	92	0.00
99	T	12dibromo3cl	0.0100	0.0095	5.00	97	0.00
100	T	135Trichlorobenzene	0.0100	0.0096	4.00	91	0.00
101	T	124Trichlobe	0.0100	0.0096	4.00	93	0.00
102	T	Hexachlorobu	0.0100	0.0096	4.00	93	0.00
103	T	Naphthalene	0.0100	0.0098	2.00	96	0.00
104	T	123Trichlben	0.0100	0.0098	2.00	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LS042717.M Wed May 03 16:38:54 2017

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\LCSD-CCVF2.D Vial: 43
Acq On : 28 Apr 2017 16:57 Operator: RLD-AGK
Sample : 137137,LCSDS, 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 28 17:18:32 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1241388	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	971430	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	545957	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	318713	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	75501	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.79	98	1219838	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	462501	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	197207	0.0138	mg/kg	99
3) Chloromethan	2.13	50	201415	0.0105	mg/kg	98
4) VinylChlorid	2.27	62	170662	0.0105	mg/kg	96
5) Bromomethane	2.75	94	83928	0.0103	mg/kg	93
6) Chloroethane	2.92	64	84925	0.0098	mg/kg	98
7) dichloroflmethane	3.23	67	231056	0.0100	mg/kg	99
8) Trichlorofma	3.30	101	199786	0.0100	mg/kg	96
9) Ethylether	3.75	59	114569	0.0101	mg/kg	97
10) dichlorotfluoroethan	3.77	67	142563	0.0099	mg/kg	96
11) propyleneoxide	3.82	58	97046	0.1506	mg/kg	93
12) Acrolein	3.91	56	145649	0.0478	mg/kg	88
13) 11dichlorthe	4.03	96	119331	0.0100	mg/kg	94
14) Trichlorotfluoroeth	4.06	101	245013	0.0208	mg/kg	97
15) Acetone	4.13	43	539477	0.1043	mg/kg	98
16) Iodomethane	4.22	142	247107	0.0144	mg/kg	99
17) Carbon Dislf	4.30	76	705214	0.0203	mg/kg	100
18) allylchloride	4.53	41	493458	0.0207	mg/kg	99
19) methylacetate	4.59	74	27336	0.0109	mg/kg	94
20) Methylchlorid	4.69	84	171455	0.0106	mg/kg	96
21) Acrylonitrile	5.03	53	261169	0.0525	mg/kg	99
22) t12dichlorte	5.07	96	134916	0.0099	mg/kg	98
23) tbutylalcohol	4.90	59	713601	0.4807	mg/kg	95
24) MtBE	5.08	73	335767	0.0105	mg/kg	98
25) Hexane	5.43	57	405271	0.0219	mg/kg	98
26) 11dichlorota	5.60	63	262202	0.0103	mg/kg	98
27) Vinylacetate	5.69	43	2621345	0.0973	mg/kg	99
28) chloroprene	5.72	53	492322	0.0210	mg/kg	99
29) Diisopether	5.72	45	558080	0.0105	mg/kg#	78
30) ETBE	6.18	59	396289	0.0109	mg/kg	100
31) 22dichloropr	6.33	77	173755	0.0101	mg/kg	99
32) c12dichlorte	6.34	96	151844	0.0100	mg/kg	97
33) 2Butanone	6.37	72	133162	0.1010	mg/kg	99
34) propionitrile	6.43	54	207415	0.1037	mg/kg	97
35) Ethylacetate	6.46	88	24278	0.0518	mg/kg#	86
36) methacrylonitrile	6.62	67	100931	0.0197	mg/kg	89
37) Bromochlorma	6.63	128	72138	0.0106	mg/kg	96
38) Tetrahydofur	6.70	42	492756	0.1028	mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\LCSD-CCVF2.D Vial: 43
Acq On : 28 Apr 2017 16:57 Operator: RLD-AGK
Sample : 137137,LCSDS, 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 28 17:18:32 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	244301	0.0101	mg/kg	99
40)	111trichlota	6.96	97	203221	0.0098	mg/kg	99
42)	Cyclohexane	7.04	56	252982	0.0102	mg/kg	97
43)	Carbtetraclo	7.18	119	164883	0.0096	mg/kg	100
44)	11dicloprope	7.18	110	64835	0.0099	mg/kg	97
46)	Benzene	7.43	78	544581	0.0102	mg/kg	99
47)	12dichlorota	7.44	62	187350	0.0102	mg/kg	99
48)	TAME	7.58	73	310059	0.0112	mg/kg	97
49)	trichloroete	8.23	95	145897	0.0104	mg/kg	97
50)	methylcyclohexane	8.48	83	213656	0.0100	mg/kg	99
51)	12dicloropra	8.51	63	158863	0.0101	mg/kg	100
52)	23dicl1propene	8.57	75	215588	0.0105	mg/kg	97
53)	Dibromometha	8.65	93	83695	0.0102	mg/kg	96
54)	methylmethacrylate	8.67	69	79435	0.0092	mg/kg	95
55)	14dioxane	8.69	88	66297	0.4650	mg/kg	94
56)	Bromodiclrma	8.86	83	172237	0.0098	mg/kg	94
57)	2Nitropropane	9.14	43	248398	0.0815	mg/kg	98
58)	c13dicloproe	9.43	75	210083	0.0098	mg/kg	99
59)	4Meth2Pentan	9.63	43	1520084	0.1120	mg/kg	99
61)	Toluene	9.87	92	322534	0.0099	mg/kg	99
62)	t13Dicloprop	10.15	75	171040	0.0097	mg/kg	97
63)	ethylmethacrylate	10.28	69	321606	0.0200	mg/kg	99
64)	112Triclotha	10.39	83	101214	0.0102	mg/kg	95
65)	Tetrachlorte	10.60	166	167226	0.0101	mg/kg	99
66)	13Diclorpropa	10.61	76	201468	0.0102	mg/kg	100
68)	2Hexanone	10.72	43	1087619	0.1099	mg/kg	99
69)	Clorodibrmta	10.92	129	132584	0.0096	mg/kg	98
70)	12Dibrometha	11.07	107	124275	0.0101	mg/kg	100
71)	Chlorobenzen	11.75	112	379963	0.0097	mg/kg	97
72)	1Clhexane	11.71	91	168879	0.0094	mg/kg	96
73)	1112Tetclota	11.85	131	136520	0.0097	mg/kg	96
74)	Ethylbenzene	11.90	91	630030	0.0100	mg/kg	98
75)	m p-Xylene	12.06	106	453558	0.0193	mg/kg	98
76)	o-Xylene	12.62	106	235483	0.0101	mg/kg	96
77)	Styrene	12.63	104	394232	0.0100	mg/kg	100
78)	Bromoform	12.88	173	85264	0.0089	mg/kg	99
79)	Isopropylben	13.14	105	623711	0.0100	mg/kg	100
81)	cyclohexanone	13.25	55	97162	0.1860	mg/kg	99
83)	Bromobenzene	13.56	156	180874	0.0096	mg/kg	97
84)	1122Tetrclta	13.55	83	164971	0.0100	mg/kg	96
85)	123Triclproa	13.61	75	181386	0.0100	mg/kg	99
86)	14dichloro2butene	13.64	53	44596	0.0104	mg/kg	91
87)	n-Propylbenz	13.72	91	697543	0.0096	mg/kg	100
88)	2chlorotolue	13.84	91	430852	0.0096	mg/kg	98
89)	4chlorotolue	14.00	91	501664	0.0098	mg/kg	97
90)	135Trimebenz	13.98	105	502563	0.0098	mg/kg	99
91)	tbutylbenzen	14.45	119	457522	0.0096	mg/kg	98
92)	124Trimetben	14.53	105	500494	0.0097	mg/kg	98
93)	sbutylbenzen	14.77	105	669588	0.0099	mg/kg	100
94)	13Diclorbenz	14.93	146	327601	0.0095	mg/kg	99
95)	pIsopropylto	14.99	119	543528	0.0097	mg/kg	98
96)	14dichlorobe	15.05	146	326548	0.0095	mg/kg	98
97)	12dichlorobe	15.60	146	322176	0.0099	mg/kg	98
98)	nButylbenzen	15.58	91	462439	0.0098	mg/kg	97
99)	12dibromo3cl	16.71	157	33861	0.0095	mg/kg	97
100)	135Trichlorobenzene	17.01	180	237081	0.0096	mg/kg	98
101)	124Trichlobe	17.82	180	218349	0.0096	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR2717B\LCSD-CCVF2.D Vial: 43
Acq On : 28 Apr 2017 16:57 Operator: RLD-AGK
Sample : 137137,LCSDS, 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 28 17:18:32 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	139396	0.0096	mg/kg	99
103) Naphthalene	18.13	128	430224	0.0098	mg/kg	99
104) 123Trichlben	18.44	180	209948	0.0098	mg/kg	98

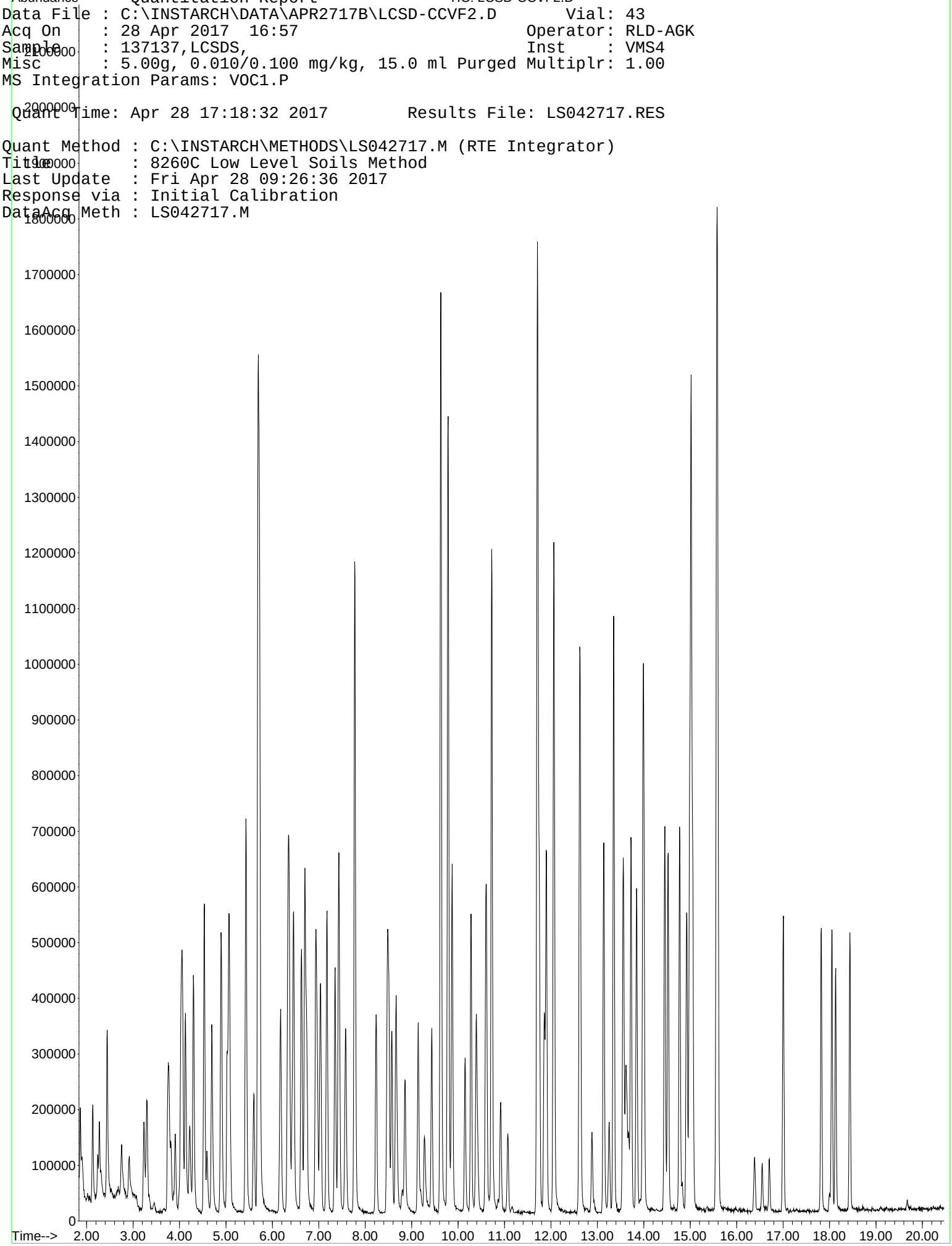
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCSD-CCVF2.D

Data File : C:\INSTARCH\DATA\APR2717B\LCSD-CCVF2.D Vial: 43
Acq On : 28 Apr 2017 16:57 Operator: RLD-AGK
Sample : 137137,LCSDS, 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 28 17:18:32 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



VOLATILE ORGANIC ANALYSIS
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Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\CCV-LCS1.D Vial: 3
Acq On : 21 Apr 2017 8:43 Operator: RLD-AGK
Sample : 136714,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 21 09:07:07 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:03 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1391364	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1155796	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	712837	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	384861	4.062	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102	%		
45) SURR12DCAd4	7.35	102	73536	3.822	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 96	%		
61) SURRd8Tolule	9.79	98	1420843	4.090	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 102	%		
83) SURR4BrFBenz	13.35	95	553078	4.005	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 100	%		
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	420749	3.6815	ug/L	98
3) Chloromethan	2.15	50	483044	3.5692	ug/L	98
4) VinylChlorid	2.28	62	437509	3.8595	ug/L	99
5) Bromomethane	2.76	94	173402	4.2832	ug/L	100
6) Chloroethane	2.92	64	238406	3.9569	ug/L	99
7) Dichloroflmethane	3.24	67	579218	3.8179	ug/L	98
8) Trichlorofma	3.30	101	519138	4.2990	ug/L	97
9) Ethylether	3.75	59	220068	4.0621	ug/L	97
10) dichlorotfluoroethan	3.78	67	352533	3.9195	ug/L	98
11) propyleneoxide	3.82	58	184732	39.5796	ug/L	98
12) Acrolein	3.91	56	180784	17.5769	ug/L	98
13) 11dichlorthe	4.03	96	286701	3.8848	ug/L	100
14) Trichlorotfluoroeth	4.06	101	571072	8.1276	ug/L	99
15) Acetone	4.13	43	613037	39.2388	ug/L	99
16) Iodomethane	4.23	142	497614	8.7438	ug/L	99
17) Carbon Dislf	4.30	76	1255460	7.5730	ug/L	99
18) allylchloride	4.54	41	1081481	7.6190	ug/L	97
19) methylacetate	4.59	74	49290	6.5670	ug/L	84
20) Methylchlorid	4.70	84	328428	3.8090	ug/L	98
21) tbutylalcohol	4.90	59	759045	193.1771	ug/L	97
22) Acrylonitrile	5.03	53	341559	18.6951	ug/L	99
23) t12dichlorte	5.07	96	311245	3.7786	ug/L	96
24) MtBE	5.08	73	596097	3.8772	ug/L	99
25) Hexane	5.44	57	1038032	9.1713	ug/L	99
26) 11dichlorota	5.61	63	626131	3.7484	ug/L	100
27) Vinylacetate	5.69	43	4415453	39.6632	ug/L	99
28) chloroprene	5.72	53	1206154	8.0373	ug/L	99
29) Diisopether	5.72	45	1250942	3.7744	ug/L	99
30) ETBE	6.18	59	833863	3.8294	ug/L	99
31) 22dichloropr	6.34	77	404309	3.9458	ug/L	99
32) c12dichlorte	6.34	96	350762	3.6497	ug/L	96
33) 2Butanone	6.37	72	174589	37.9827	ug/L	98
34) propionitrile	6.43	54	258171	36.6193	ug/L	97
35) Ethylacetate	6.46	88	33638	20.2274	ug/L	98
36) methacrylonitrile	6.62	67	142832	7.3706	ug/L	98
37) Bromochlorma	6.63	128	152021	3.7220	ug/L	94
38) Tetrahydofur	6.70	42	645608	36.4949	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\CCV-LCS1.D Vial: 3
Acq On : 21 Apr 2017 8:43 Operator: RLD-AGK
Sample : 136714,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 21 09:07:07 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:03 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	586739	3.6490	ug/L	98
40)	111trichlota	6.97	97	497237	3.8682	ug/L	99
42)	Cyclohexane	7.04	56	576420	3.9938	ug/L	99
43)	Carbtetraclo	7.18	119	414143	4.3016	ug/L	99
44)	11dicloprope	7.18	110	167923	4.1042	ug/L	100
46)	Benzene	7.43	78	1283168	3.7269	ug/L	99
47)	12dichlorota	7.44	62	406961	3.8244	ug/L	97
48)	TAME	7.58	73	615743	3.8668	ug/L	99
49)	trichloroete	8.23	95	330649	3.7989	ug/L	100
50)	methylcyclohexane	8.48	83	543382	4.1869	ug/L	98
51)	12dicloropra	8.51	63	380025	3.7940	ug/L	94
52)	23Dicl1propene	8.57	75	464254	3.7458	ug/L	98
53)	Dibromometha	8.66	93	170228	4.0719	ug/L	94
54)	methylmethacrylate	8.67	69	124214	3.9805	ug/L	98
55)	14dioxane	8.69	88	62973	236.7931	ug/L	97
56)	Bromodiclrma	8.86	83	392631	3.6933	ug/L	98
57)	2Nitropropane	9.14	43	419309	40.0735	ug/L	97
58)	2CLEVE	9.25	63	171987	15.2469	ug/L	98
59)	c13dicloproe	9.43	75	451844	3.9601	ug/L	99
60)	4Meth2Pentan	9.63	43	2215457	38.9784	ug/L	99
62)	Toluene	9.87	92	818080	3.7616	ug/L	100
63)	t13Dicloprop	10.15	75	338235	4.0819	ug/L	100
64)	ethylmethacrylate	10.28	69	526309	8.0389	ug/L	97
65)	112Triclotha	10.39	83	194479	3.8176	ug/L	98
66)	Tetrachlorte	10.60	166	415494	3.9057	ug/L	98
67)	13Diclorpropa	10.61	76	387781	3.8586	ug/L	99
69)	2Hexanone	10.73	43	1524894	36.9952	ug/L	98
70)	Clorodibrmta	10.92	129	287231	3.8453	ug/L	99
71)	12Dibrometha	11.08	107	218864	3.6772	ug/L	96
72)	Chlorobenzen	11.75	112	944400	3.6376	ug/L	98
73)	1Clhexane	11.71	91	424473	3.8901	ug/L	98
74)	1112Tetclota	11.86	131	329020	3.7501	ug/L	99
75)	Ethylbenzene	11.90	91	1531468	3.7611	ug/L	99
76)	m p-Xylene	12.06	106	1238907	7.5794	ug/L	100
77)	o-Xylene	12.62	106	590058	3.6710	ug/L	98
78)	Styrene	12.63	104	985421	3.8059	ug/L	99
79)	Bromoform	12.88	173	147026	3.2657	ug/L	95
80)	Isopropylben	13.14	105	1530619	3.8847	ug/L	99
81)	cyclohexanone	13.25	55	103138	82.8840	ug/L	98
84)	Bromobenzene	13.56	156	418759	3.3952	ug/L	98
85)	1122Tetrclta	13.55	83	265824	3.2662	ug/L	100
86)	123Triclproa	13.61	75	283097	4.0702	ug/L	90
87)	14dichloro2butene	13.64	53	50653	3.4250	ug/L	97
88)	n-Propylbenz	13.72	91	1846638	3.6330	ug/L	99
89)	2chlorotolue	13.84	91	1052535	3.4050	ug/L	98
90)	4chlorotolue	14.00	91	1206290	3.4813	ug/L	99
91)	135Trimebenz	13.98	105	1311142	3.6339	ug/L	100
92)	tbutylbenzen	14.45	119	1160984	3.5866	ug/L	99
93)	124Trimetben	14.52	105	1307853	3.5313	ug/L	98
94)	sbutylbenzen	14.77	105	1699477	3.6817	ug/L	100
95)	13Diclorbenz	14.93	146	789369	3.3970	ug/L	97
96)	pIsopropylto	14.98	119	1451343	3.6941	ug/L	99
97)	14dichlorobe	15.05	146	788238	3.4173	ug/L	99
98)	12dichlorobe	15.60	146	723441	3.3182	ug/L	99
99)	nButylbenzen	15.58	91	1228185	3.6396	ug/L	99
100)	12dibromo3cl	16.70	157	43623	3.3560	ug/L	96
101)	135Trichlorobenzene	17.00	180	547949	3.4215	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\CCV-LCS1.D Vial: 3
Acq On : 21 Apr 2017 8:43 Operator: RLD-AGK
Sample : 136714,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 21 09:07:07 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:03 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	448827	3.4057	ug/L	98
103) Hexachlorobu	18.05	225	261806	3.4651	ug/L	99
104) Naphthalene	18.13	128	692863	3.5441	ug/L	99
105) 123Trichlben	18.44	180	397762	3.4746	ug/L	99

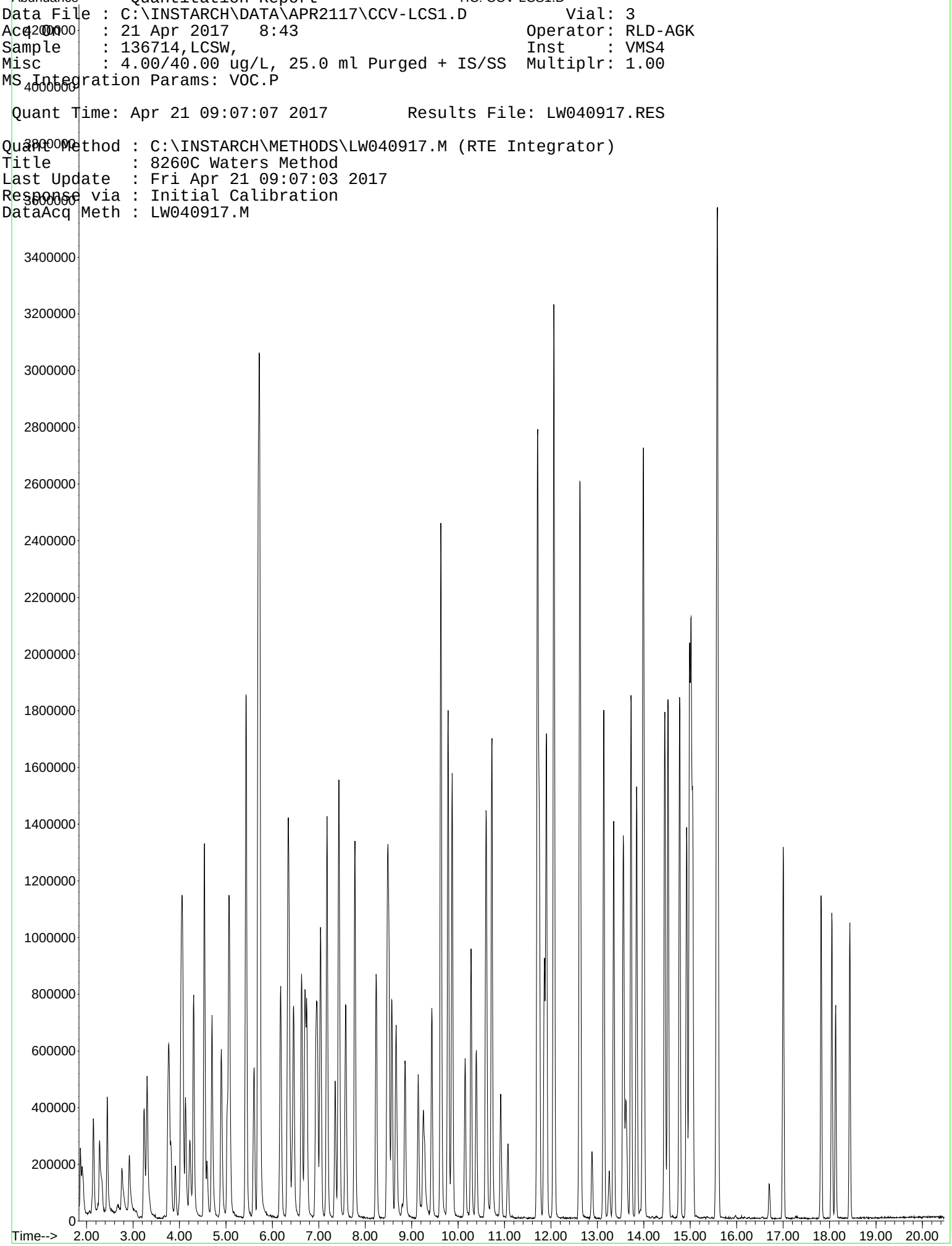
(#) = qualifier out of range (m) = manual integration

Quantitation Report (TIC: CCV-LCS1.D)

Data File : C:\INSTARCH\DATA\APR2117\CCV-LCS1.D Vial: 3
Acq On : 21 Apr 2017 8:43 Operator: RLD-AGK
Sample : 136714,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 21 09:07:07 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:03 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\MB1.D Vial: 5
Acq On : 21 Apr 2017 9:39 Operator: RLD-AGK
Sample : 136714,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 21 10:00:05 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1251643	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1087102	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	625804	4.00 ug/L	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.94	113	357789	4.198 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 105 %		
45) SURR12DCAd4	7.35	102	70396	4.067 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 102 %		
61) SURRd8Tolule	9.79	98	1310120	4.193 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 105 %		
83) SURR4BrFBenz	13.35	95	487529	4.021 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 101 %		
Target Compounds					Qvalue
2) Dichlorodi	1.96	85	543	N.D.	
3) Chloromethan	2.14	50	3717	0.0305 ug/L #	42
4) VinylChlorid	2.28	62	706	N.D.	
5) Bromomethane	2.79	94	883	N.D.	
6) Chloroethane	2.90	64	1017	N.D.	
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	4.15	43	19524	N.D.	
16) Iodomethane	4.22	142	938	0.3512 ug/L #	44
17) Carbon Dislf	4.30	76	3027	N.D.	
18) allylchloride	4.53	41	613	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.70	84	6975	Below Cal #	84
21) tbutylalcohol	4.91	59	2116	Below Cal	99
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	6.71	42	5396	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\MB1.D Vial: 5
Acq On : 21 Apr 2017 9:39 Operator: RLD-AGK
Sample : 136714,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 21 10:00:05 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.76	83	527	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	7.44	78	1003	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)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.63	43	1509	N.D.	
62)	Toluene	9.88	92	637	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.72	43	1063	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.71	91	2183	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.26	55	502	Below Cal # 45	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	15.01	146	1372	N.D.	
96)	pIsopropylto	14.98	119	564	N.D.	
97)	14dichlorobe	15.01	146	1372	N.D.	
98)	12dichlorobe	15.57	146	1089	N.D.	
99)	nButylbenzen	15.56	91	2485	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\MB1.D Vial: 5
Acq On : 21 Apr 2017 9:39 Operator: RLD-AGK
Sample : 136714,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 21 10:00:05 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	856	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.12	128	2341	N.D.	
105) 123Trichlben	18.44	180	1052	N.D.	

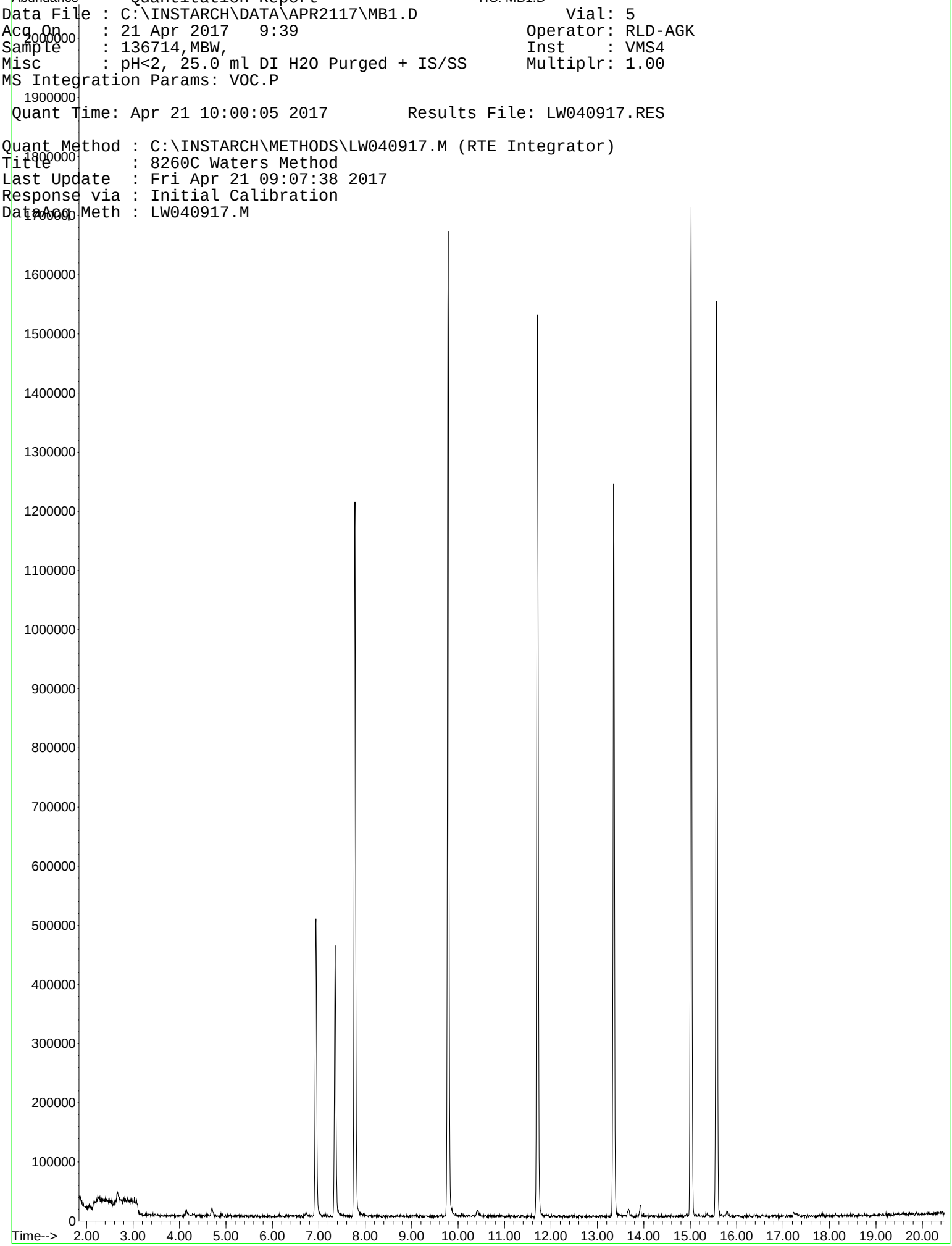
(#) = qualifier out of range (m) = manual integration

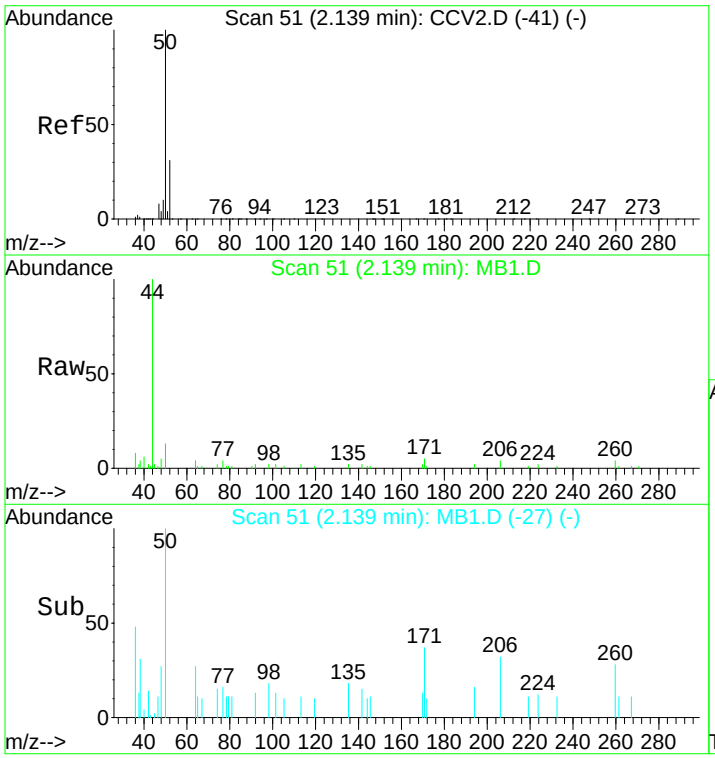
Abundance Quantitation Report TIC: MB1.D

Data File : C:\INSTARCH\DATA\APR2117\MB1.D Vial: 5
Acq On : 21 Apr 2017 9:39 Operator: RLD-AGK
Sample : 136714,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 21 10:00:05 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 09:07:38 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

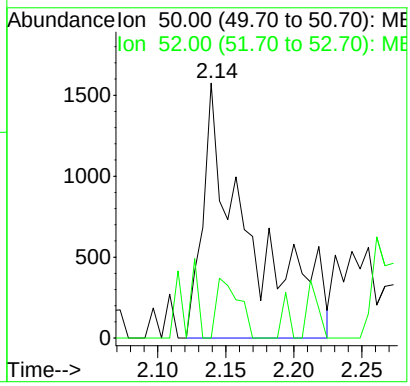


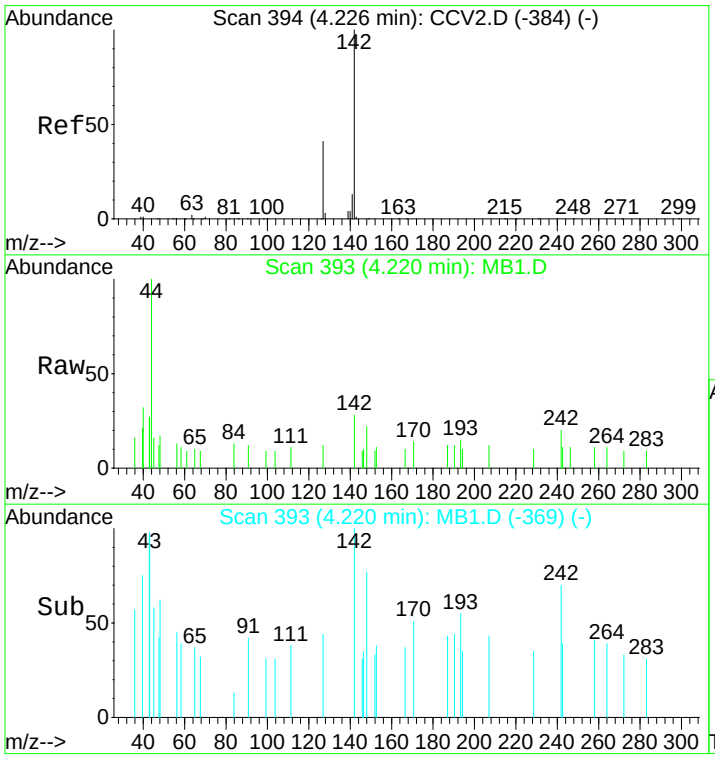


#3
Chloromethan
Concen: 0.03 ug/L
RT: 2.14 min Scan# 51
Delta R.T. -0.01 min
Lab File: MB1.D
Acq: 21 Apr 2017 9:39

Tgt Ion: 50 Resp: 3717

Ion	Ratio	Lower	Upper
50	100		
52	0.0	13.0	53.0#

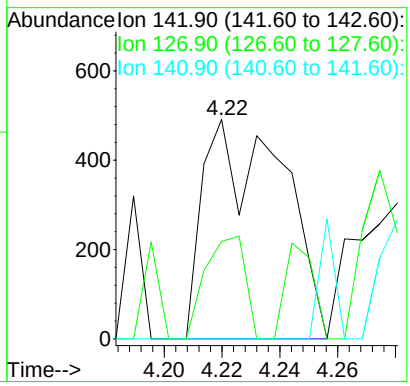




#16
Iodomethane
Concen: 0.35 ug/L
RT: 4.22 min Scan# 393
Delta R.T. -0.01 min
Lab File: MB1.D
Acq: 21 Apr 2017 9:39

Tgt Ion:142 Resp: 938

Ion	Ratio	Lower	Upper
142	100		
127	0.0	19.4	59.4#
141	0.0	0.0	34.2



[redacted]

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\LCSD-CVF1.D Vial: 26
Acq On : 21 Apr 2017 19:34 Operator: RLD-AGK
Sample : 136990,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 21 19:54:54 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.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**	7.78	96	1448016	4.00	ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1175361	4.00	ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	691352	4.00	ug/L	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	387792	3.933	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 98 %			
45) SURR12DCAd4	7.36	102	77465	3.868	ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 97 %			
61) SURRd8Tolule	9.79	98	1459706	4.038	ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 101 %			
83) SURR4BrFBenz	13.35	95	532605	3.976	ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 99 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	484701	4.0751	ug/L	98
3) Chloromethan	2.15	50	546788	3.8821	ug/L	99
4) VinylChlorid	2.28	62	504038	4.2725	ug/L	99
5) Bromomethane	2.76	94	202082	4.7963	ug/L	98
6) Chloroethane	2.92	64	262642	4.1886	ug/L	97
7) Dichloroflmethane	3.24	67	638636	4.0449	ug/L	100
8) Trichlorofma	3.30	101	561726	4.4697	ug/L	93
9) Ethylether	3.75	59	221560	3.9296	ug/L	95
10) dichlorotfluoroethan	3.78	67	396354	4.2343	ug/L	97
11) propyleneoxide	3.82	58	185608	38.2114	ug/L	97
12) Acrolein	3.91	56	169453	15.8307	ug/L	100
13) 11dichlorthe	4.03	96	321315	4.1835	ug/L	99
14) Trichlorotfluoroeth	4.07	101	631214	8.6320	ug/L	98
15) Acetone	4.13	43	630897	38.7667	ug/L	99
16) Iodomethane	4.22	142	584028	9.7043	ug/L	98
17) Carbon Dislf	4.30	76	1355282	7.8553	ug/L	100
18) allylchloride	4.54	41	1148676	7.7758	ug/L	96
19) methylacetate	4.59	74	47426	6.0715	ug/L	94
20) Methylchlorid	4.70	84	333829	3.7080	ug/L	96
21) tbutylalcohol	4.90	59	816932	200.0889	ug/L	99
22) Acrylonitrile	5.03	53	346908	18.2450	ug/L	99
23) t12dichlorte	5.07	96	334371	3.9005	ug/L	97
24) MtBE	5.08	73	620895	3.8805	ug/L	98
25) Hexane	5.44	57	1101442	9.3508	ug/L	99
26) 11dichlorota	5.60	63	681469	3.9201	ug/L	100
27) Vinylacetate	5.69	43	4519947	39.0134	ug/L	99
28) chloroprene	5.72	53	1322658	8.4688	ug/L	99
29) Diisopether	5.72	45	1335788	3.8727	ug/L	98
30) ETBE	6.18	59	878672	3.8773	ug/L	100
31) 22dichloropr	6.34	77	425059	3.9860	ug/L	98
32) c12dichlorte	6.34	96	385743	3.8567	ug/L	99
33) 2Butanone	6.37	72	183011	38.2572	ug/L	99
34) propionitrile	6.43	54	268205	36.5541	ug/L	98
35) Ethylacetate	6.46	88	30507	17.6203	ug/L #	90
36) methacrylonitrile	6.62	67	154811	7.6762	ug/L	91
37) Bromochlorma	6.63	128	165813	3.9009	ug/L	97
38) Tetrahydofur	6.70	42	656621	35.6653	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\LCSD-CVF1.D Vial: 26
Acq On : 21 Apr 2017 19:34 Operator: RLD-AGK
Sample : 136990,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 21 19:54:54 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	624118	3.7296	ug/L	100
40)	111trichlota	6.97	97	547813	4.0950	ug/L	99
42)	Cyclohexane	7.04	56	646345	4.3031	ug/L	97
43)	Carbtetraclo	7.18	119	459599	4.5869	ug/L	99
44)	11dicloprope	7.18	110	182085	4.2762	ug/L	96
46)	Benzene	7.43	78	1387347	3.8718	ug/L	99
47)	12dichlorota	7.45	62	420866	3.8004	ug/L	98
48)	TAME	7.58	73	660593	3.9862	ug/L	99
49)	trichloroete	8.24	95	359677	3.9707	ug/L	99
50)	methylcyclohexane	8.48	83	600131	4.4433	ug/L	99
51)	12dicloropra	8.51	63	401423	3.8509	ug/L	95
52)	23Dicl1propene	8.57	75	502249	3.8939	ug/L	99
53)	Dibromometha	8.65	93	175073	4.0240	ug/L	96
54)	methylmethacrylate	8.67	69	128265	3.9495	ug/L	96
55)	14dioxane	8.69	88	85608	326.9853	ug/L	91
56)	Bromodiclrma	8.86	83	420487	3.8006	ug/L	99
57)	2Nitropropane	9.14	43	406264	37.3077	ug/L	98
58)	2CLEVE	9.24	63	201534	17.1673	ug/L	99
59)	c13dicloproe	9.43	75	466402	3.9277	ug/L	100
60)	4Meth2Pentan	9.63	43	2228003	37.6655	ug/L	99
62)	Toluene	9.88	92	876702	3.8734	ug/L	99
63)	t13Dicloprop	10.15	75	347862	4.0338	ug/L	99
64)	ethylmethacrylate	10.28	69	543183	7.9720	ug/L	97
65)	112Triclotha	10.39	83	200070	3.7736	ug/L	99
66)	Tetrachlorte	10.60	166	461731	4.1705	ug/L	98
67)	13Diclorpropa	10.61	76	402027	3.8439	ug/L	99
69)	2Hexanone	10.72	43	1532380	36.5580	ug/L	99
70)	Clorodibrmta	10.92	129	289901	3.8164	ug/L	98
71)	12Dibrometha	11.07	107	227644	3.7610	ug/L	98
72)	Chlorobenzen	11.75	112	1010398	3.8270	ug/L	98
73)	1Clhexane	11.71	91	464193	4.1833	ug/L	97
74)	1112Tetclota	11.86	131	341883	3.8318	ug/L	98
75)	Ethylbenzene	11.90	91	1664274	4.0192	ug/L	100
76)	m p-Xylene	12.07	106	1353064	8.1400	ug/L	98
77)	o-Xylene	12.62	106	638413	3.9057	ug/L	99
78)	Styrene	12.63	104	1055737	4.0096	ug/L	100
79)	Bromoform	12.88	173	151217	3.3029	ug/L	95
80)	Isopropylben	13.14	105	1665838	4.1575	ug/L	99
81)	cyclohexanone	13.25	55	118023	94.0958	ug/L	97
84)	Bromobenzene	13.56	156	443902	3.7109	ug/L	99
85)	1122Tetrclta	13.55	83	273219	3.4614	ug/L	96
86)	123Triclproa	13.61	75	228496	3.3873	ug/L	97
87)	14dichloro2butene	13.64	53	45708	3.1867	ug/L	99
88)	n-Propylbenz	13.72	91	2005415	4.0680	ug/L	99
89)	2chlorotolue	13.84	91	1154107	3.8497	ug/L	99
90)	4chlorotolue	14.00	91	1308128	3.8925	ug/L	98
91)	135Trimebenz	13.98	105	1414891	4.0434	ug/L	100
92)	tbutylbenzen	14.45	119	1268978	4.0421	ug/L	98
93)	124Trimetben	14.52	105	1411567	3.9298	ug/L	97
94)	sbutylbenzen	14.77	105	1869918	4.1768	ug/L	100
95)	13Diclorbenz	14.92	146	849499	3.7694	ug/L	97
96)	pIsopropylto	14.99	119	1596209	4.1891	ug/L	100
97)	14dichlorobe	15.05	146	842671	3.7669	ug/L	99
98)	12dichlorobe	15.60	146	778887	3.6835	ug/L	99
99)	nButylbenzen	15.58	91	1339574	4.0931	ug/L	100
100)	12dibromo3cl	16.70	157	44536	3.5327	ug/L	98
101)	135Trichlorobenzene	17.01	180	609664	3.9252	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2117\LCSD-CVF1.D Vial: 26
Acq On : 21 Apr 2017 19:34 Operator: RLD-AGK
Sample : 136990,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 21 19:54:54 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.82	180	492190	3.8508	ug/L	98
103) Hexachlorobu	18.05	225	279582	3.8154	ug/L	99
104) Naphthalene	18.13	128	725196	3.8248	ug/L	99
105) 123Trichlben	18.44	180	424801	3.8261	ug/L	99

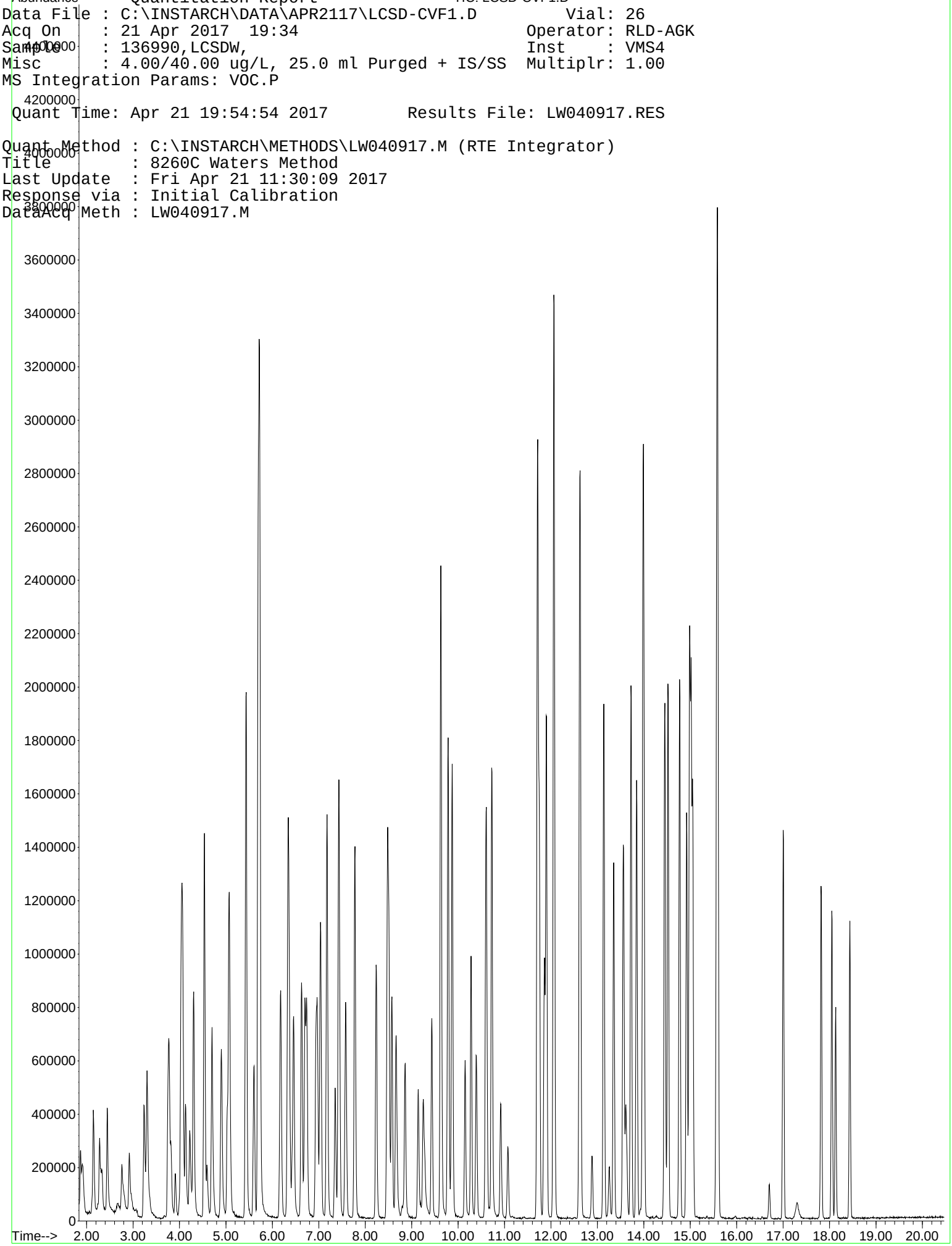
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCSD-CVF1.D

Data File : C:\INSTARCH\DATA\APR2117\LCSD-CVF1.D Vial: 26
Acq On : 21 Apr 2017 19:34 Operator: RLD-AGK
Sample : 136990,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 21 19:54:54 2017 Results File: LW040917.RES

Quant Method : C:\INSTARCH\METHODS\LW040917.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Apr 21 11:30:09 2017
Response via : Initial Calibration
DataAcq Meth : LW040917.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\LCS1.D Vial: 3
Acq On : 27 Apr 2017 21:39 Operator: RLD-AGK
Sample : 137136,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 28 08:12:15 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	1062600	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	833595	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	462865	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	274798	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	63473	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	1048780	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	394647	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	135938	0.0111	mg/kg	99
3) Chloromethan	2.12	50	157556	0.0096	mg/kg	97
4) VinylChlorid	2.27	62	132775	0.0096	mg/kg	99
5) Bromomethane	2.75	94	73343	0.0105	mg/kg	96
6) Chloroethane	2.91	64	67709	0.0091	mg/kg	95
7) dichloroflmethane	3.23	67	188143	0.0095	mg/kg	98
8) Trichlorofma	3.30	101	159628	0.0093	mg/kg	97
9) Ethylether	3.75	59	92288	0.0095	mg/kg	98
10) dichlorotfluoroethan	3.77	67	113990	0.0093	mg/kg	98
11) propyleneoxide	3.82	58	57758	0.1092	mg/kg	95
12) Acrolein	3.91	56	125879	0.0483	mg/kg	88
13) 11dichlorthe	4.03	96	97593	0.0095	mg/kg	94
14) Trichlorotfluoroeth	4.06	101	194085	0.0193	mg/kg	99
15) Acetone	4.13	43	436685	0.0986	mg/kg	100
16) Iodomethane	4.22	142	251955	0.0171	mg/kg	99
17) Carbon Dislf	4.30	76	570409	0.0192	mg/kg	99
18) allylchloride	4.53	41	405130	0.0199	mg/kg	97
19) methylacetate	4.59	74	19931	0.0093	mg/kg	96
20) Methylchlorid	4.70	84	122570	0.0085	mg/kg	97
21) Acrylonitrile	5.03	53	202614	0.0476	mg/kg	98
22) t12dichlorte	5.06	96	110381	0.0095	mg/kg	99
23) tbutylalcohol	4.90	59	589878	0.4643	mg/kg	100
24) MtBE	5.08	73	260917	0.0096	mg/kg	98
25) Hexane	5.43	57	315006	0.0198	mg/kg	97
26) 11dichlorota	5.60	63	205240	0.0094	mg/kg	99
27) Vinylacetate	5.69	43	2232942	0.0968	mg/kg	100
28) chloroprene	5.72	53	395487	0.0197	mg/kg	99
29) Diisopether	5.72	45	438296	0.0096	mg/kg#	91
30) ETBE	6.18	59	311626	0.0100	mg/kg	99
31) 22dichloropr	6.33	77	137481	0.0093	mg/kg	98
32) c12dichlorte	6.34	96	119455	0.0092	mg/kg	96
33) 2Butanone	6.37	72	109524	0.0971	mg/kg	97
34) propionitrile	6.43	54	168667	0.0986	mg/kg	99
35) Ethylacetate	6.46	88	19090	0.0476	mg/kg#	87
36) methacrylonitrile	6.62	67	82384	0.0188	mg/kg	95
37) Bromochlorma	6.63	128	56583	0.0097	mg/kg	97
38) Tetrahydofur	6.70	42	381501	0.0930	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\LCS1.D Vial: 3
Acq On : 27 Apr 2017 21:39 Operator: RLD-AGK
Sample : 137136,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 28 08:12:15 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	193804	0.0094 mg/kg	99
40)	111trichlota	6.97	97	169369	0.0095 mg/kg	98
42)	Cyclohexane	7.03	56	205763	0.0097 mg/kg	100
43)	Carbtetraclo	7.17	119	134619	0.0092 mg/kg	98
44)	11dicloprope	7.17	110	53628	0.0095 mg/kg	96
46)	Benzene	7.43	78	436705	0.0096 mg/kg	100
47)	12dichlorota	7.45	62	149484	0.0096 mg/kg	99
48)	TAME	7.58	73	239844	0.0101 mg/kg	97
49)	trichloroete	8.23	95	112592	0.0094 mg/kg	98
50)	methylcyclohexane	8.48	83	170692	0.0094 mg/kg	98
51)	12dicloropra	8.51	63	125412	0.0093 mg/kg	92
52)	23dicl1propene	8.57	75	166943	0.0095 mg/kg	99
53)	Dibromometha	8.66	93	68062	0.0097 mg/kg	97
54)	methylmethacrylate	8.66	69	67348	0.0091 mg/kg	97
55)	14dioxane	8.68	88	61156	0.5011 mg/kg	96
56)	Bromodiclrma	8.85	83	140181	0.0093 mg/kg	97
57)	2Nitropropane	9.14	43	231660	0.0878 mg/kg	99
58)	c13dicloproe	9.43	75	173207	0.0094 mg/kg	100
59)	4Meth2Pentan	9.63	43	1177662	0.1014 mg/kg	100
61)	Toluene	9.87	92	265348	0.0095 mg/kg	98
62)	t13Dicloprop	10.15	75	138118	0.0091 mg/kg	97
63)	ethylmethacrylate	10.28	69	259176	0.0188 mg/kg	100
64)	112Triclotha	10.39	83	81310	0.0096 mg/kg	98
65)	Tetrachlorte	10.60	166	135980	0.0096 mg/kg	100
66)	13Diclorpropa	10.61	76	160986	0.0095 mg/kg	99
68)	2Hexanone	10.72	43	847879	0.0999 mg/kg	99
69)	Clorodibrmta	10.91	129	108948	0.0091 mg/kg	99
70)	12Dibrometha	11.07	107	99581	0.0095 mg/kg	98
71)	Chlorobenzen	11.75	112	306308	0.0092 mg/kg	98
72)	1Clhexane	11.71	91	141168	0.0091 mg/kg	98
73)	1112Tetclota	11.86	131	112624	0.0094 mg/kg	98
74)	Ethylbenzene	11.90	91	510084	0.0095 mg/kg	98
75)	m p-Xylene	12.06	106	373797	0.0185 mg/kg	100
76)	o-Xylene	12.62	106	193630	0.0096 mg/kg	95
77)	Styrene	12.64	104	324050	0.0096 mg/kg	96
78)	Bromoform	12.89	173	74399	0.0090 mg/kg	99
79)	Isopropylben	13.14	105	509706	0.0095 mg/kg	99
81)	cyclohexanone	13.26	55	82005	0.1851 mg/kg	99
83)	Bromobenzene	13.56	156	149688	0.0093 mg/kg	96
84)	1122Tetrclta	13.55	83	131077	0.0094 mg/kg	98
85)	123Triclproa	13.62	75	131251	0.0086 mg/kg	91
86)	14dichloro2butene	13.63	53	34843	0.0096 mg/kg	97
87)	n-Propylbenz	13.73	91	566433	0.0092 mg/kg	99
88)	2chlorotolue	13.84	91	350776	0.0092 mg/kg	98
89)	4chlorotolue	14.00	91	393445	0.0091 mg/kg	100
90)	135Trimebenz	13.98	105	402153	0.0093 mg/kg	99
91)	tbutylbenzen	14.45	119	376917	0.0094 mg/kg	98
92)	124Trimetben	14.52	105	400214	0.0092 mg/kg	97
93)	sbutylbenzen	14.77	105	542418	0.0095 mg/kg	99
94)	13Diclorbenz	14.92	146	259839	0.0089 mg/kg	97
95)	pIsopropylto	14.98	119	443333	0.0094 mg/kg	98
96)	14dichlorobe	15.05	146	257806	0.0089 mg/kg	99
97)	12dichlorobe	15.59	146	252146	0.0091 mg/kg	99
98)	nButylbenzen	15.58	91	353178	0.0088 mg/kg	97
99)	12dibromo3cl	16.71	157	27533	0.0091 mg/kg	99
100)	135Trichlorobenzene	17.00	180	185930	0.0089 mg/kg	97
101)	124Trichlobe	17.82	180	165047	0.0086 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\LCS1.D Vial: 3
Acq On : 27 Apr 2017 21:39 Operator: RLD-AGK
Sample : 137136,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 28 08:12:15 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	107419	0.0088 mg/kg	98
103) Naphthalene	18.13	128	354319	0.0096 mg/kg	99
104) 123Trichlben	18.43	180	166617	0.0092 mg/kg	98

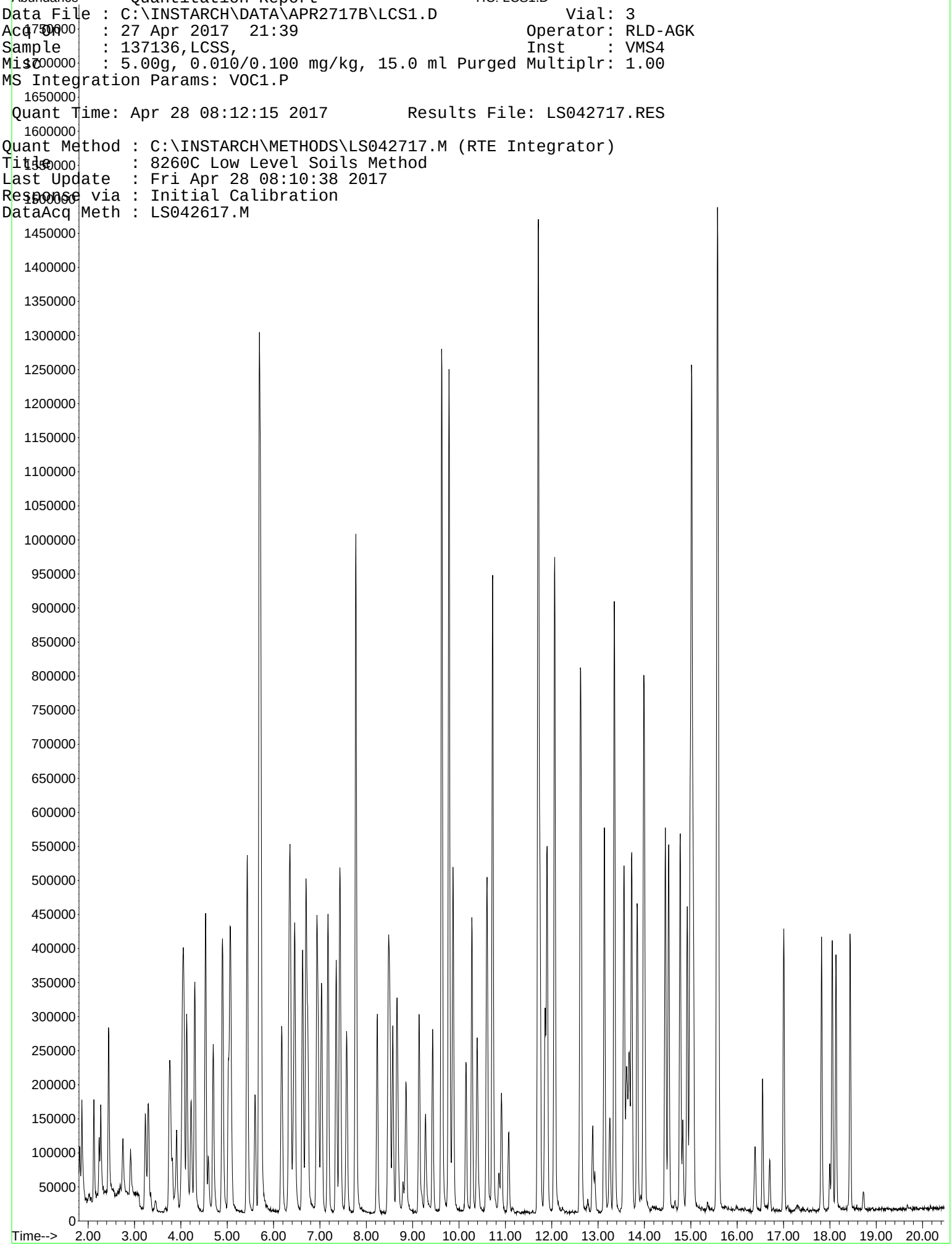
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCS1.D

Data File : C:\INSTARCH\DATA\APR2717B\LCS1.D Vial: 3
Acq On : 27 Apr 2017 21:39 Operator: RLD-AGK
Sample : 137136,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 28 08:12:15 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\MB1.D Vial: 5
Acq On : 27 Apr 2017 22:37 Operator: RLD-AGK
Sample : 137136,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:24:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	715219	0.02 mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	579993	0.02 mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	327127	0.02 mg/kg	0.00 NA%
System Monitoring Compounds					
41) SURRDibrflma	6.94	113	189209	0.021 mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 105 %		
45) SURR12DCAd4	7.35	102	44993	0.022 mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 110 %		
60) SURRd8Tolule	9.78	98	716943	0.020 mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %		
82) SURR4BrFBenz	13.35	95	276578	0.019 mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %		
Target Compounds					Qvalue
2) Dichlorodi	1.86	85	4430	N.D.	
3) Chloromethan	2.12	50	3403	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.75	94	1618	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
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	4.14	43	25946	N.D.	
16) Iodomethane	4.21	142	4568	0.0005 mg/kg#	56
17) Carbon Dislf	4.30	76	2259	N.D.	
18) allylchloride	4.52	41	14976	0.0011 mg/kg#	51
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.70	84	17736	N.D.	
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.91	59	1651	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	5.43	57	1808	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	5.70	43	1692	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	6.71	42	6830	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\MB1.D Vial: 5
Acq On : 27 Apr 2017 22:37 Operator: RLD-AGK
Sample : 137136,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:24:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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	7.47	78	1149	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	9.15	43	1225	0.0109 mg/kg#	1
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.62	43	5413	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	10.73	43	8433	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	11.71	91	1276	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.89	91	1011	N.D.	
75)	m p-Xylene	0.00	106	0	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	12.64	104	1279	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	13.73	91	1743	N.D.	
88)	2chlorotolue	13.87	91	1272	N.D.	
89)	4chlorotolue	14.00	91	1506	N.D.	
90)	135Trimebenz	13.97	105	1024	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.52	105	2872	N.D.	
93)	sbutylbenzen	0.00	105	0	N.D.	
94)	13Diclorbenz	14.94	146	1827	N.D.	
95)	pIsopropylto	14.97	119	1466	N.D.	
96)	14dichlorobe	15.05	146	2060	N.D.	
97)	12dichlorobe	15.59	146	1449	N.D.	
98)	nButylbenzen	15.56	91	2567	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	17.00	180	1647	N.D.	
101)	124Trichlobe	17.81	180	2861	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\MB1.D Vial: 5
Acq On : 27 Apr 2017 22:37 Operator: RLD-AGK
Sample : 137136,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:24:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	9268	N.D.	
104) 123Trichlben	18.42	180	2755	N.D.	

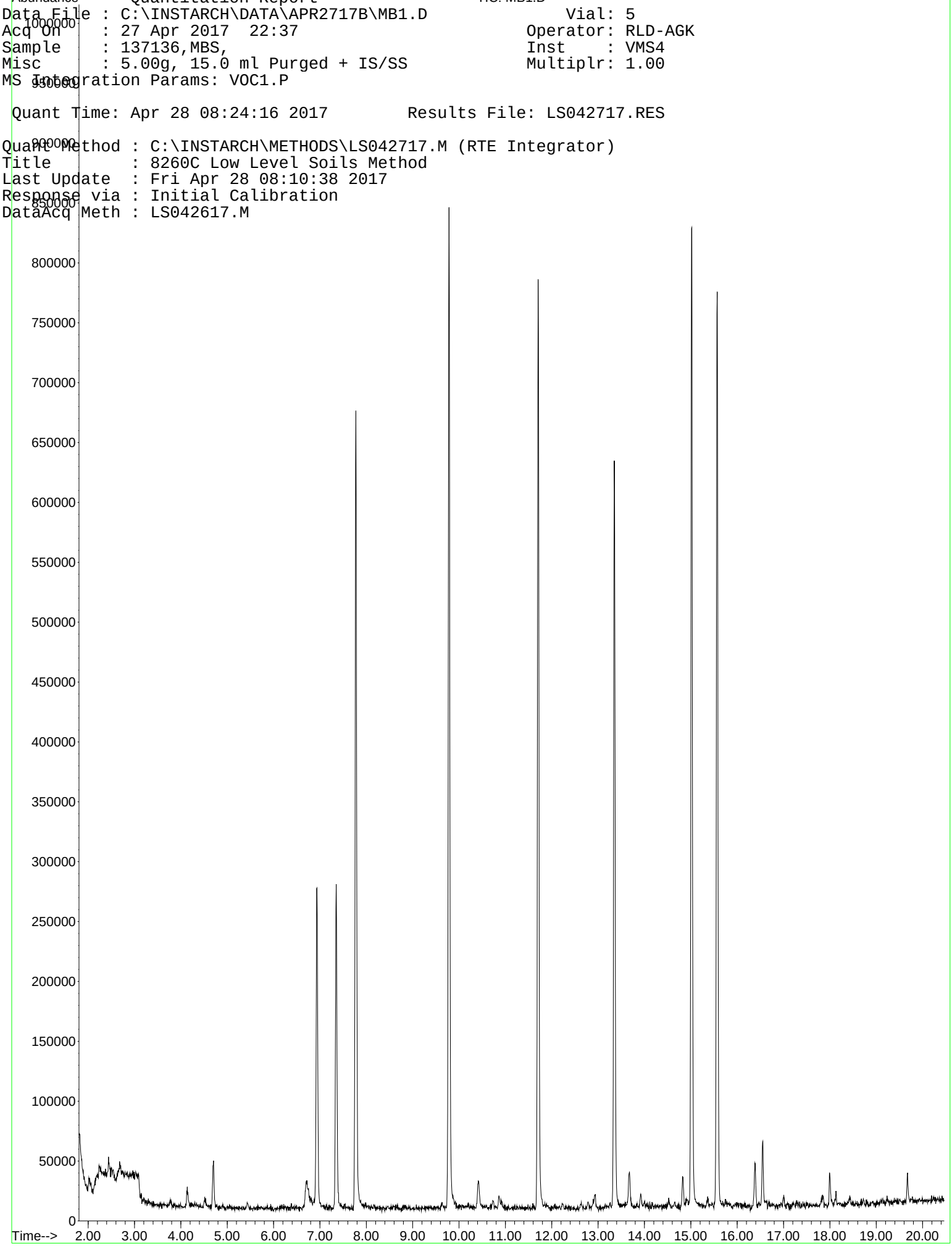
(#) = qualifier out of range (m) = manual integration

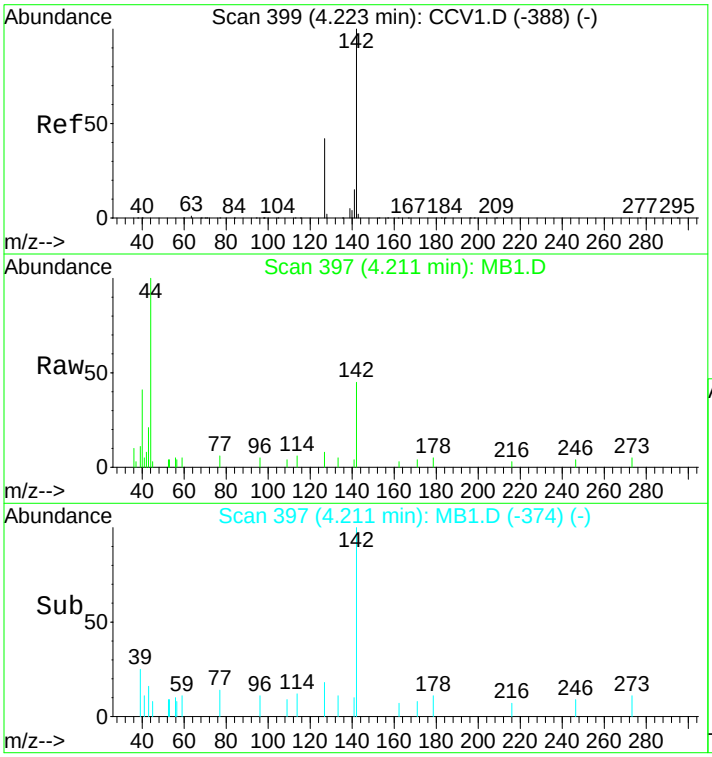
Abundance Quantitation Report TIC: MB1.D

Data File : C:\INSTARCH\DATA\APR2717B\MB1.D Vial: 5
Acq On : 27 Apr 2017 22:37 Operator: RLD-AGK
Sample : 137136,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:24:16 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

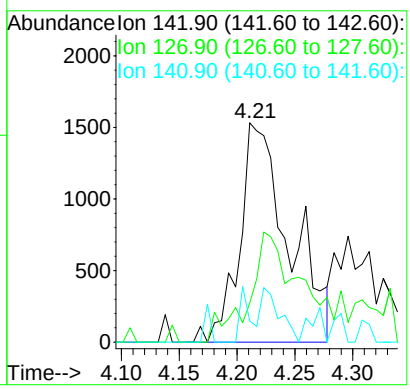




#16
Iodomethane
Concen: 0.00 mg/kg
RT: 4.21 min Scan# 397
Delta R.T. -0.01 min
Lab File: MB1.D
Acq: 27 Apr 2017 22:37

Tgt Ion:142 Resp: 4568

Ion	Ratio	Lower	Upper
142	100		
127	68.7	19.8	59.8#
141	0.0	0.0	34.5



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856734MS.D Vial: 24
Acq On : 28 Apr 2017 8:08 Operator: RLD-AGK
Sample : 137136,MSS856734, Inst : VMS4
Misc : 5.98g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:30:07 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.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**	7.78	96	1017842	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	823056	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	440241	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.94	113	264640	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	62011	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	1012888	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	383506	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.86	85	169378	0.0145	mg/kg	99
3) Chloromethan	2.12	50	191456	0.0122	mg/kg	97
4) VinylChlorid	2.28	62	164700	0.0124	mg/kg	98
5) Bromomethane	2.76	94	82672	0.0124	mg/kg	98
6) Chloroethane	2.92	64	82403	0.0115	mg/kg	97
7) dichloroflmethane	3.24	67	224315	0.0118	mg/kg	99
8) Trichlorofma	3.30	101	197094	0.0120	mg/kg	96
9) Ethylether	3.75	59	104094	0.0112	mg/kg	98
10) dichlorotfluoroethan	3.77	67	142027	0.0121	mg/kg	96
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	3.91	56	14371	0.0058	mg/kg#	1
13) 11dichlorthe	4.03	96	113482	0.0116	mg/kg	95
14) Trichlorotfluoroeth	4.06	101	247631	0.0257	mg/kg	97
15) Acetone	4.13	43	514960	0.1214	mg/kg	100
16) Iodomethane	4.22	142	241549	0.0171	mg/kg	97
17) Carbon Dislf	4.30	76	679240	0.0238	mg/kg	100
18) allylchloride	4.53	41	437634	0.0224	mg/kg	99
19) methylacetate	4.59	74	13934	0.0068	mg/kg	90
20) Methylchlorid	4.70	84	146733	0.0112	mg/kg	98
21) Acrylonitrile	5.03	53	243503	0.0597	mg/kg	98
22) t12dichlorte	5.06	96	125929	0.0113	mg/kg	96
23) tbutylalcohol	4.90	59	833166	0.6846	mg/kg	96
24) MtBE	5.08	73	303682	0.0116	mg/kg	99
25) Hexane	5.43	57	452937	0.0298	mg/kg	99
26) 11dichlorota	5.60	63	241596	0.0116	mg/kg	99
27) Vinylacetate	5.70	43	1186172	0.0537	mg/kg	97
28) chloroprene	5.72	53	392466	0.0204	mg/kg	100
29) Diisopether	5.72	45	490800	0.0112	mg/kg#	2
30) ETBE	6.18	59	343630	0.0115	mg/kg	98
31) 22dichloropr	6.33	77	158362	0.0112	mg/kg	99
32) c12dichlorte	6.34	96	140528	0.0113	mg/kg	97
33) 2Butanone	6.36	72	139339	0.1289	mg/kg	100
34) propionitrile	6.43	54	196741	0.1200	mg/kg	98
35) Ethylacetate	6.46	88	10941	0.0285	mg/kg#	62
36) methacrylonitrile	6.62	67	99587	0.0237	mg/kg	95
37) Bromochlorma	6.63	128	62728	0.0112	mg/kg	92
38) Tetrahydofur	6.70	42	464996	0.1183	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856734MS.D Vial: 24
Acq On : 28 Apr 2017 8:08 Operator: RLD-AGK
Sample : 137136,MSS856734, Inst : VMS4
Misc : 5.98g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:30:07 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	225852	0.0114 mg/kg	98
40)	111trichlota	6.97	97	194925	0.0114 mg/kg	99
42)	Cyclohexane	7.03	56	247960	0.0122 mg/kg	100
43)	Carbtetraclo	7.18	119	163124	0.0116 mg/kg	99
44)	11dicloprope	7.17	110	63610	0.0118 mg/kg	99
46)	Benzene	7.43	78	489380	0.0112 mg/kg	99
47)	12dichlorota	7.44	62	177902	0.0119 mg/kg	99
48)	TAME	7.57	73	268531	0.0118 mg/kg	98
49)	trichloroete	8.24	95	129441	0.0113 mg/kg	98
50)	methylcyclohexane	8.48	83	219553	0.0126 mg/kg	97
51)	12dicloropra	8.51	63	147771	0.0114 mg/kg	98
52)	23dicl1propene	8.57	75	195365	0.0116 mg/kg	100
53)	Dibromometha	8.66	93	77016	0.0115 mg/kg	97
54)	methylmethacrylate	8.67	69	78763	0.0111 mg/kg	95
55)	14dioxane	8.69	88	89473	0.7654 mg/kg	98
56)	Bromodiclrma	8.86	83	158679	0.0110 mg/kg	94
57)	2Nitropropane	9.14	43	273903	0.1060 mg/kg	99
58)	c13dicloproe	9.43	75	183842	0.0104 mg/kg	99
59)	4Meth2Pentan	9.63	43	1573481	0.1414 mg/kg	99
61)	Toluene	9.87	92	307084	0.0115 mg/kg	97
62)	t13Dicloprop	10.15	75	151016	0.0104 mg/kg	98
63)	ethylmethacrylate	10.28	69	283231	0.0215 mg/kg	98
64)	112Triclotha	10.39	83	95130	0.0117 mg/kg	99
65)	Tetrachlorte	10.60	166	206152	0.0152 mg/kg	98
66)	13Diclorpropa	10.62	76	185484	0.0115 mg/kg	99
68)	2Hexanone	10.73	43	1060614	0.1265 mg/kg	99
69)	Clorodibrmta	10.92	129	127250	0.0108 mg/kg	99
70)	12Dibrometha	11.07	107	115035	0.0111 mg/kg	99
71)	Chlorobenzen	11.75	112	356745	0.0108 mg/kg	99
72)	1Clhexane	11.71	91	170770	0.0112 mg/kg	96
73)	1112Tetclota	11.86	131	126522	0.0107 mg/kg	99
74)	Ethylbenzene	11.90	91	588952	0.0111 mg/kg	98
75)	m p-Xylene	12.06	106	430641	0.0216 mg/kg	100
76)	o-Xylene	12.62	106	207853	0.0105 mg/kg	96
77)	Styrene	12.63	104	68744	0.0021 mg/kg#	58
78)	Bromoform	12.89	173	87342	0.0107 mg/kg	95
79)	Isopropylben	13.14	105	593148	0.0112 mg/kg	99
81)	cyclohexanone	13.25	55	114955	0.2729 mg/kg	100
83)	Bromobenzene	13.57	156	164141	0.0108 mg/kg	96
84)	1122Tetrclta	13.55	83	163289	0.0123 mg/kg	98
85)	123Triclproa	13.61	75	175266	0.0120 mg/kg	98
86)	14dichloro2butene	13.63	53	35530	0.0103 mg/kg	95
87)	n-Propylbenz	13.73	91	674170	0.0115 mg/kg	100
88)	2chlorotolue	13.85	91	405323	0.0112 mg/kg	98
89)	4chlorotolue	14.00	91	446736	0.0108 mg/kg	99
90)	135Trimebenz	13.98	105	445080	0.0108 mg/kg	99
91)	tbutylbenzen	14.45	119	440716	0.0115 mg/kg	98
92)	124Trimetben	14.52	105	399555	0.0096 mg/kg	96
93)	sbutylbenzen	14.77	105	655229	0.0121 mg/kg	99
94)	13Diclorbenz	14.92	146	292823	0.0106 mg/kg	99
95)	pIsopropylto	14.98	119	495494	0.0110 mg/kg	99
96)	14dichlorobe	15.06	146	286443	0.0104 mg/kg	98
97)	12dichlorobe	15.60	146	278999	0.0106 mg/kg	99
98)	nButylbenzen	15.59	91	439742	0.0116 mg/kg	99
99)	12dibromo3cl	16.71	157	31060	0.0108 mg/kg	94
100)	135Trichlorobenzene	17.00	180	195654	0.0098 mg/kg	98
101)	124Trichlobe	17.82	180	160590	0.0088 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856734MS.D Vial: 24
Acq On : 28 Apr 2017 8:08 Operator: RLD-AGK
Sample : 137136,MSS856734, Inst : VMS4
Misc : 5.98g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:30:07 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	134842	0.0116 mg/kg	99
103) Naphthalene	18.13	128	279958	0.0079 mg/kg	99
104) 123Trichlben	18.44	180	152637	0.0089 mg/kg	97

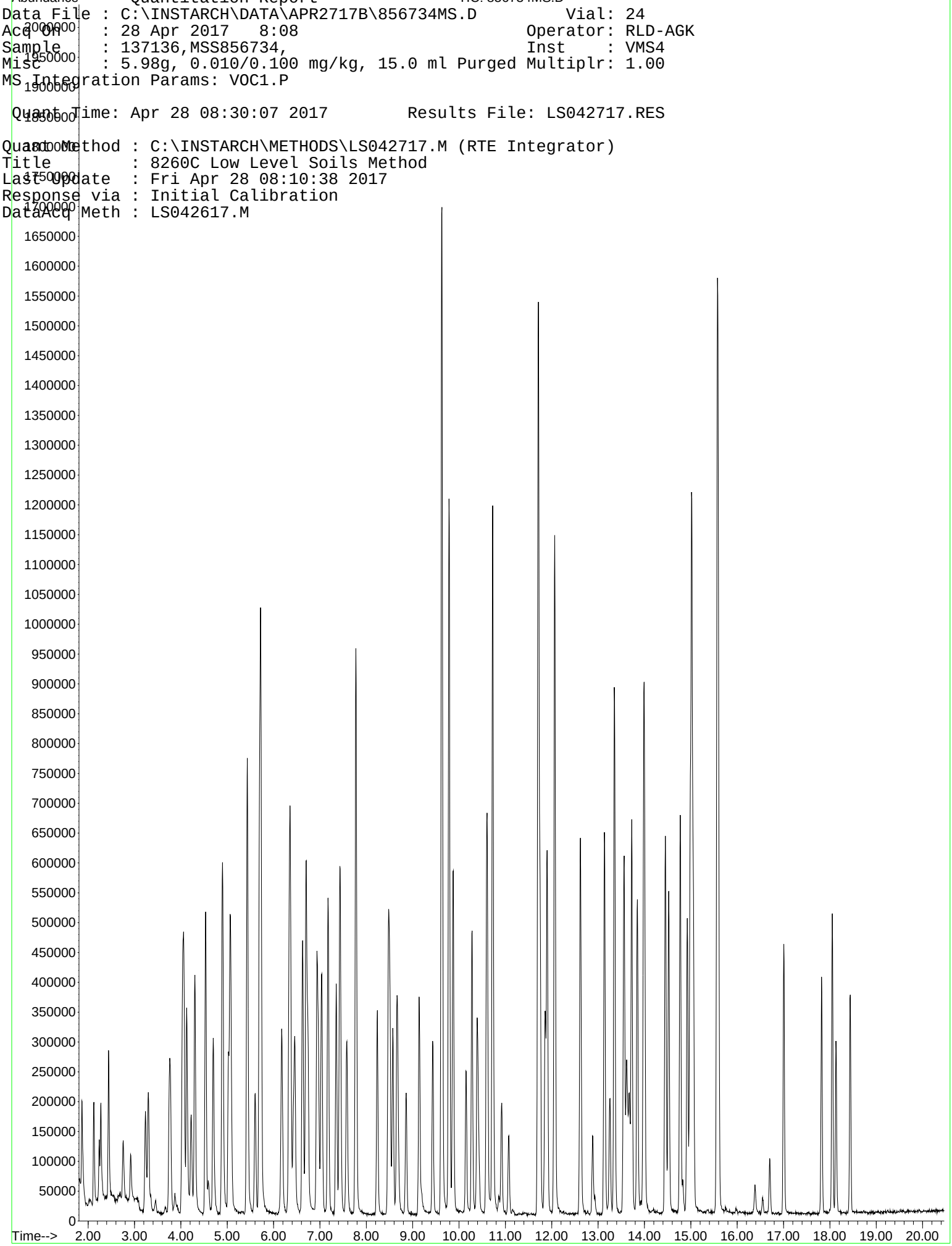
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 856734MS.D

Data File : C:\INSTARCH\DATA\APR2717B\856734MS.D Vial: 24
Acq On : 28 Apr 2017 8:08 Operator: RLD-AGK
Sample : 137136,MSS856734, Inst : VMS4
Misc : 5.98g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 08:30:07 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 08:10:38 2017
Response via : Initial Calibration
DataAcq Meth : LS042617.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\LCS2.D Vial: 28
Acq On : 28 Apr 2017 9:44 Operator: RLD-AGK
Sample : 137137,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 28 10:04:53 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1231090	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	967586	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	528907	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	311949	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	69081	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1221224	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	461319	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	168887	0.0119	mg/kg	100
3) Chloromethan	2.12	50	213340	0.0112	mg/kg	95
4) VinylChlorid	2.27	62	179691	0.0112	mg/kg	96
5) Bromomethane	2.75	94	91495	0.0113	mg/kg	93
6) Chloroethane	2.91	64	91242	0.0106	mg/kg	98
7) dichloroflmethane	3.23	67	241130	0.0105	mg/kg	94
8) Trichlorofma	3.29	101	216261	0.0109	mg/kg	99
9) Ethylether	3.75	59	113131	0.0101	mg/kg	96
10) dichlorotfluoroethan	3.78	67	152853	0.0107	mg/kg	98
11) propyleneoxide	3.81	58	87440	0.1383	mg/kg	92
12) Acrolein	3.91	56	156084	0.0517	mg/kg	89
13) 11dichlorthe	4.03	96	125927	0.0106	mg/kg	95
14) Trichlorotfluoroeth	4.06	101	262956	0.0226	mg/kg	97
15) Acetone	4.13	43	556444	0.1085	mg/kg	100
16) Iodomethane	4.22	142	288927	0.0170	mg/kg	99
17) Carbon Dislf	4.30	76	739688	0.0215	mg/kg	100
18) allylchloride	4.53	41	510842	0.0216	mg/kg	99
19) methylacetate	4.60	74	28110	0.0113	mg/kg	87
20) Methylchlorid	4.69	84	176142	0.0111	mg/kg	98
21) Acrylonitrile	5.02	53	271342	0.0550	mg/kg	97
22) t12dichlorte	5.06	96	140774	0.0104	mg/kg	96
23) tbutylalcohol	4.90	59	751080	0.5102	mg/kg	95
24) MtBE	5.08	73	332795	0.0105	mg/kg	99
25) Hexane	5.43	57	426251	0.0232	mg/kg	98
26) 11dichlorota	5.60	63	265825	0.0106	mg/kg	100
27) Vinylacetate	5.69	43	2853034	0.1067	mg/kg	99
28) chloroprene	5.72	53	515143	0.0221	mg/kg	100
29) Diisopether	5.72	45	574218	0.0109	mg/kg#	87
30) ETBE	6.17	59	397347	0.0110	mg/kg	99
31) 22dichloropr	6.33	77	181900	0.0107	mg/kg	97
32) c12dichlorte	6.34	96	154488	0.0103	mg/kg	96
33) 2Butanone	6.37	72	136294	0.1043	mg/kg	94
34) propionitrile	6.43	54	214154	0.1080	mg/kg	97
35) Ethylacetate	6.45	88	24891	0.0536	mg/kg#	88
36) methacrylonitrile	6.62	67	104310	0.0206	mg/kg	94
37) Bromochlorma	6.63	128	72973	0.0108	mg/kg	98
38) Tetrahydofur	6.70	42	502648	0.1057	mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\LCS2.D Vial: 28
Acq On : 28 Apr 2017 9:44 Operator: RLD-AGK
Sample : 137137,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 28 10:04:53 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.73	83	247170	0.0103	mg/kg	97
40)	111trichlota	6.96	97	220406	0.0107	mg/kg	99
42)	Cyclohexane	7.04	56	268529	0.0109	mg/kg	99
43)	Carbtetraclo	7.17	119	178426	0.0105	mg/kg	100
44)	11dicloprope	7.17	110	71151	0.0109	mg/kg	97
46)	Benzene	7.43	78	557234	0.0106	mg/kg	100
47)	12dichlorota	7.44	62	190787	0.0105	mg/kg	98
48)	TAME	7.58	73	304248	0.0111	mg/kg	98
49)	trichloroete	8.23	95	149142	0.0108	mg/kg	99
50)	methylcyclohexane	8.48	83	227740	0.0108	mg/kg	98
51)	12dicloropra	8.51	63	162682	0.0104	mg/kg	97
52)	23dicl1propene	8.57	75	215353	0.0106	mg/kg	99
53)	Dibromometha	8.65	93	84959	0.0104	mg/kg	95
54)	methylmethacrylate	8.67	69	86885	0.0101	mg/kg	99
55)	14dioxane	8.69	88	71482	0.5056	mg/kg	98
56)	Bromodiclrma	8.86	83	181565	0.0104	mg/kg	95
57)	2Nitropropane	9.14	43	284761	0.0926	mg/kg	99
58)	c13dicloproe	9.43	75	215868	0.0101	mg/kg	100
59)	4Meth2Pentan	9.63	43	1535278	0.1141	mg/kg	99
61)	Toluene	9.87	92	343560	0.0106	mg/kg	97
62)	t13Dicloprop	10.15	75	176598	0.0101	mg/kg	98
63)	ethylmethacrylate	10.28	69	321099	0.0201	mg/kg	98
64)	112Triclotha	10.39	83	104921	0.0107	mg/kg	98
65)	Tetrachlorte	10.60	166	183507	0.0112	mg/kg	97
66)	13Diclorpropa	10.61	76	203202	0.0104	mg/kg	99
68)	2Hexanone	10.72	43	1124035	0.1141	mg/kg	99
69)	Clorodibrmta	10.92	129	141403	0.0102	mg/kg	98
70)	12Dibrometha	11.07	107	122793	0.0100	mg/kg	99
71)	Chlorobenzen	11.75	112	404116	0.0104	mg/kg	99
72)	1Clhexane	11.71	91	192999	0.0107	mg/kg	99
73)	1112Tetclota	11.85	131	141093	0.0101	mg/kg	98
74)	Ethylbenzene	11.90	91	665660	0.0106	mg/kg	99
75)	m p-Xylene	12.06	106	498397	0.0213	mg/kg	97
76)	o-Xylene	12.62	106	243763	0.0104	mg/kg	97
77)	Styrene	12.63	104	417424	0.0107	mg/kg	97
78)	Bromoform	12.88	173	90958	0.0095	mg/kg	97
79)	Isopropylben	13.14	105	661802	0.0107	mg/kg	99
81)	cyclohexanone	13.25	55	107134	0.2117	mg/kg	96
83)	Bromobenzene	13.56	156	191604	0.0105	mg/kg	97
84)	1122Tetrclta	13.55	83	171355	0.0108	mg/kg	96
85)	123Triclproa	13.61	75	185434	0.0106	mg/kg	99
86)	14dichloro2butene	13.64	53	43357	0.0104	mg/kg	94
87)	n-Propylbenz	13.72	91	764145	0.0109	mg/kg	99
88)	2chlorotolue	13.84	91	459692	0.0105	mg/kg	97
89)	4chlorotolue	14.00	91	523840	0.0105	mg/kg	100
90)	135Trimebenz	13.98	105	534848	0.0108	mg/kg	99
91)	tbutylbenzen	14.45	119	488788	0.0106	mg/kg	99
92)	124Trimetben	14.52	105	535599	0.0107	mg/kg	99
93)	sbutylbenzen	14.77	105	711404	0.0109	mg/kg	99
94)	13Diclorbenz	14.92	146	348745	0.0105	mg/kg	97
95)	pIsopropylto	14.99	119	587635	0.0109	mg/kg	100
96)	14dichlorobe	15.05	146	357621	0.0108	mg/kg	97
97)	12dichlorobe	15.59	146	335316	0.0106	mg/kg	98
98)	nButylbenzen	15.58	91	511246	0.0112	mg/kg	99
99)	12dibromo3cl	16.70	157	35264	0.0102	mg/kg	100
100)	135Trichlorobenzene	17.00	180	263450	0.0110	mg/kg	100
101)	124Trichlobe	17.82	180	235954	0.0107	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\LCS2.D Vial: 28
Acq On : 28 Apr 2017 9:44 Operator: RLD-AGK
Sample : 137137,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 28 10:04:53 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

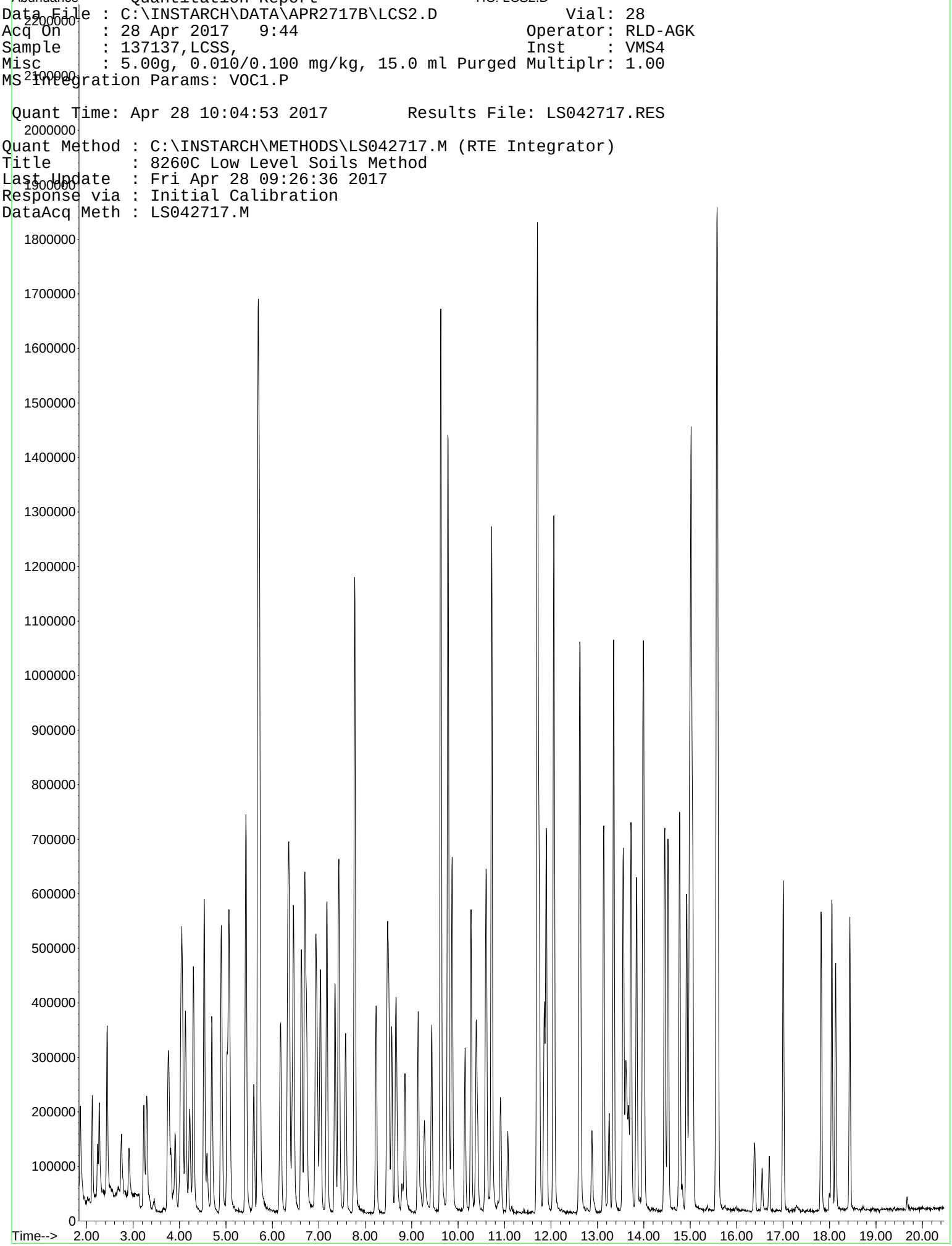
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	148239	0.0106 mg/kg	97
103) Naphthalene	18.13	128	452139	0.0107 mg/kg	98
104) 123Trichlben	18.44	180	222934	0.0108 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\INSTARCH\DATA\APR2717B\LCS2.D Vial: 28
Acq On : 28 Apr 2017 9:44 Operator: RLD-AGK
Sample : 137137,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 28 10:04:53 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\MB2-CCB1.D Vial: 30
Acq On : 28 Apr 2017 10:42 Operator: RLD-AGK
Sample : 137137,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:02:55 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1203431	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	950853	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	518550	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	311500	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	68398	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 100 %			
60) SURRd8Tolule	9.79	98	1195365	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	447215	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 100 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	18917	0.0014	mg/kg	98
3) Chloromethan	2.13	50	3673	N.D.		
4) VinylChlorid	0.00	62	0	N.D.		
5) Bromomethane	2.74	94	1812	N.D.		
6) Chloroethane	0.00	64	0	N.D.		
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	4.13	43	37893	N.D.		
16) Iodomethane	4.21	142	4762	N.D.		
17) Carbon Dislf	4.31	76	2488	N.D.		
18) allylchloride	4.51	41	30580	0.0013	mg/kg#	51
19) methylacetate	0.00	74	0	N.D.		
20) Methylchlorid	4.70	84	13576	Below	Cal	91
21) Acrylonitrile	0.00	53	0	N.D.		
22) t12dichlorte	0.00	96	0	N.D.		
23) tbutylalcohol	4.90	59	5874	N.D.		
24) MtBE	0.00	73	0	N.D.		
25) Hexane	5.42	57	2025	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	6.72	42	7201	N.D.		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\MB2-CCB1.D Vial: 30
Acq On : 28 Apr 2017 10:42 Operator: RLD-AGK
Sample : 137137,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:02:55 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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	7.43	78	3411	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	9.13	43	2719	0.0111 mg/kg#	11
58)	c13dicloproe	0.00	75	0	N.D.	
59)	4Meth2Pentan	9.63	43	6950	N.D.	
61)	Toluene	9.87	92	3059	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	10.72	43	9731	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	11.70	91	2276	N.D.	
73)	1112Tetclota	0.00	131	0	N.D.	
74)	Ethylbenzene	11.91	91	1020	N.D.	
75)	m p-Xylene	12.09	106	1756	N.D.	
76)	o-Xylene	0.00	106	0	N.D.	
77)	Styrene	12.63	104	2430	N.D.	
78)	Bromoform	0.00	173	0	N.D.	
79)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	13.24	55	2021	N.D.	
83)	Bromobenzene	0.00	156	0	N.D.	
84)	1122Tetrclta	0.00	83	0	N.D.	
85)	123Triclproa	13.67	75	5520	N.D.	
86)	14dichloro2butene	0.00	53	0	N.D.	
87)	n-Propylbenz	13.74	91	1871	N.D.	
88)	2chlorotolue	13.84	91	1198	N.D.	
89)	4chlorotolue	0.00	91	0	N.D.	
90)	135Trimebenz	13.99	105	1078	N.D.	
91)	tbutylbenzen	0.00	119	0	N.D.	
92)	124Trimetben	14.52	105	6967	N.D.	
93)	sbutylbenzen	14.76	105	1644	N.D.	
94)	13Diclorbenz	0.00	146	0	N.D.	
95)	pIsopropylto	14.98	119	2293	N.D.	
96)	14dichlorobe	15.04	146	1206	N.D.	
97)	12dichlorobe	15.60	146	1049	N.D.	
98)	nButylbenzen	15.58	91	3376	N.D.	
99)	12dibromo3cl	0.00	157	0	N.D.	
100)	135Trichlorobenzene	17.00	180	2319	N.D.	
101)	124Trichlobe	17.83	180	2596	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\MB2-CCB1.D Vial: 30
Acq On : 28 Apr 2017 10:42 Operator: RLD-AGK
Sample : 137137,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:02:55 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	0.00	225	0	N.D.	
103) Naphthalene	18.13	128	8434	N.D.	
104) 123Trichlben	18.43	180	2724	N.D.	

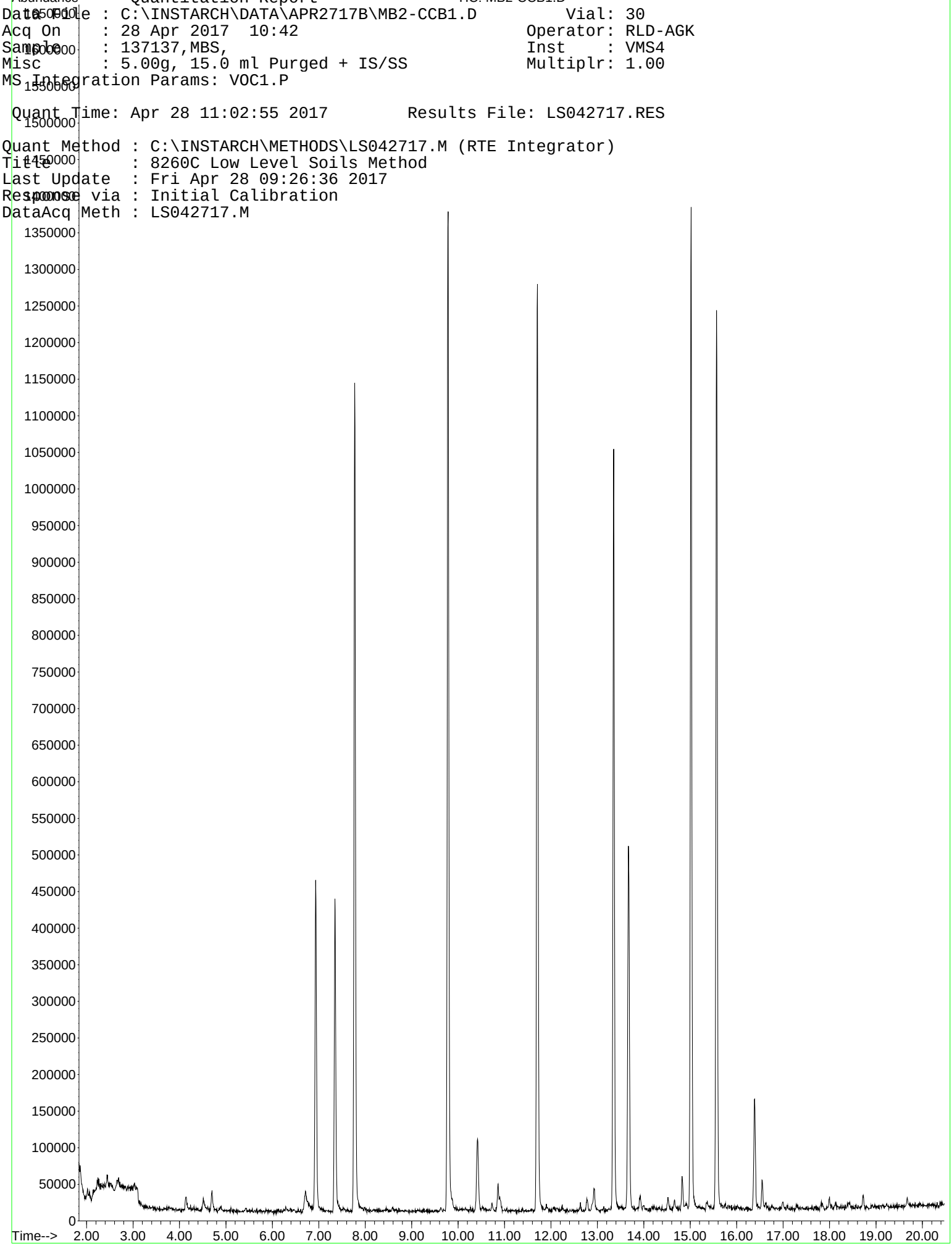
(#) = qualifier out of range (m) = manual integration

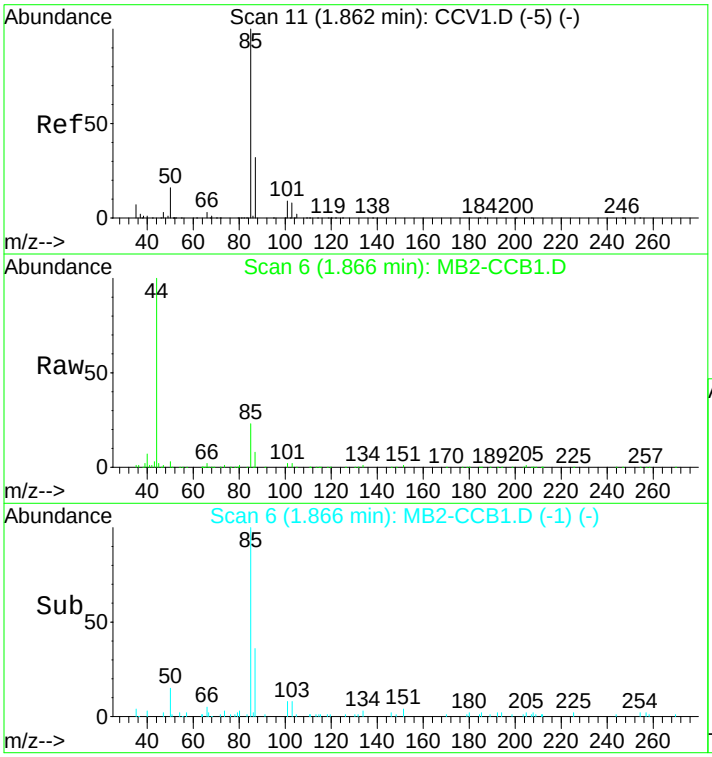
Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\MB2-CCB1.D Vial: 30
Acq On : 28 Apr 2017 10:42 Operator: RLD-AGK
Sample : 137137,MBS, Inst : VMS4
Misc : 5.00g, 15.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 11:02:55 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

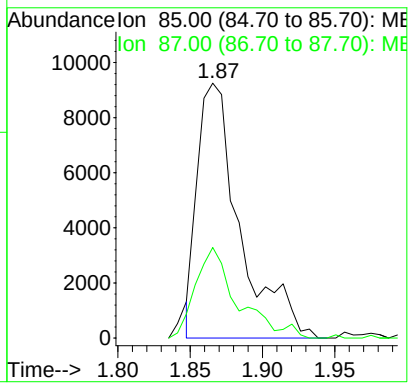




#2
Dichlorodi
Concen: 0.00 mg/kg
RT: 1.87 min Scan# 6
Delta R.T. 0.00 min
Lab File: MB2-CCB1.D
Acq: 28 Apr 2017 10:42

Tgt Ion: 85 Resp: 18917

Ion	Ratio	Lower	Upper
85	100		
87	33.1	11.9	51.9



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856734SD.D Vial: 42
Acq On : 28 Apr 2017 16:28 Operator: RLD-AGK
Sample : 137136,MSDS856734, Inst : VMS4
Misc : 6.33g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 16:49:33 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1115065	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	886560	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	496520	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	289509	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	67622	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.78	98	1108929	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	421199	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	185636	0.0145	mg/kg	100
3) Chloromethan	2.13	50	201615	0.0117	mg/kg	97
4) VinylChlorid	2.27	62	176045	0.0121	mg/kg	99
5) Bromomethane	2.75	94	76550	0.0104	mg/kg	95
6) Chloroethane	2.91	64	82151	0.0105	mg/kg	99
7) dichloroflmethane	3.23	67	229388	0.0110	mg/kg	99
8) Trichlorofma	3.30	101	212767	0.0118	mg/kg	99
9) Ethylether	3.75	59	94173	0.0093	mg/kg	96
10) dichlorotfluoroethan	3.77	67	150942	0.0117	mg/kg	96
11) propyleneoxide	0.00	58	0	N.D.		
12) Acrolein	3.91	56	7871	0.0029	mg/kg#	2
13) 11dichlorthe	4.03	96	122609	0.0114	mg/kg	94
14) Trichlorotfluoroeth	4.06	101	268655	0.0255	mg/kg	97
15) Acetone	4.13	43	505616	0.1088	mg/kg	99
16) Iodomethane	4.22	142	222317	0.0144	mg/kg	99
17) Carbon Dislf	4.30	76	715164	0.0229	mg/kg	99
18) allylchloride	4.53	41	436678	0.0204	mg/kg	98
19) methylacetate	4.60	74	8519	0.0038	mg/kg	91
20) Methylchlorid	4.70	84	148809	0.0102	mg/kg	94
21) Acrylonitrile	5.03	53	221457	0.0496	mg/kg	98
22) t12dichlorte	5.06	96	127465	0.0104	mg/kg	94
23) tbutylalcohol	4.90	59	742411	0.5568	mg/kg	94
24) MtBE	5.08	73	273264	0.0096	mg/kg	98
25) Hexane	5.43	57	474916	0.0285	mg/kg	99
26) 11dichlorota	5.61	63	243827	0.0107	mg/kg	99
27) Vinylacetate	5.69	43	795529	0.0329	mg/kg	95
28) chloroprene	5.72	53	416906	0.0198	mg/kg	99
29) Diisopether	5.72	45	467969	0.0098	mg/kg#	1
30) ETBE	6.17	59	329711	0.0101	mg/kg	97
31) 22dichloropr	6.34	77	168089	0.0109	mg/kg	99
32) c12dichlorte	6.34	96	140685	0.0103	mg/kg	99
33) 2Butanone	6.36	72	126184	0.1066	mg/kg	95
34) propionitrile	6.43	54	182981	0.1019	mg/kg	98
35) Ethylacetate	6.46	88	8669	0.0206	mg/kg#	88
36) methacrylonitrile	6.62	67	87907	0.0191	mg/kg	95
37) Bromochlorma	6.63	128	62182	0.0101	mg/kg	99
38) Tetrahydofur	6.70	42	420496	0.0977	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856734SD.D Vial: 42
Acq On : 28 Apr 2017 16:28 Operator: RLD-AGK
Sample : 137136,MSDS856734, Inst : VMS4
Misc : 6.33g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 16:49:33 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	223672	0.0103 mg/kg	100
40)	111trichlota	6.97	97	203155	0.0109 mg/kg	98
42)	Cyclohexane	7.04	56	269420	0.0121 mg/kg	98
43)	Carbtetraclo	7.18	119	167354	0.0109 mg/kg	97
44)	11dicloprope	7.18	110	67104	0.0114 mg/kg	97
46)	Benzene	7.43	78	498990	0.0104 mg/kg	99
47)	12dichlorota	7.44	62	165222	0.0101 mg/kg	99
48)	TAME	7.58	73	248499	0.0100 mg/kg	96
49)	trichloroete	8.23	95	137592	0.0110 mg/kg	98
50)	methylcyclohexane	8.48	83	228754	0.0120 mg/kg	95
51)	12dicloropra	8.51	63	143370	0.0101 mg/kg	100
52)	23dicl1propene	8.57	75	185324	0.0100 mg/kg	98
53)	Dibromometha	8.65	93	70656	0.0096 mg/kg	97
54)	methylmethacrylate	8.67	69	67080	0.0086 mg/kg	100
55)	14dioxane	8.69	88	89875	0.7018 mg/kg	97
56)	Bromodiclrma	8.86	83	150465	0.0095 mg/kg	95
57)	2Nitropropane	9.14	43	216370	0.0793 mg/kg	98
58)	c13dicloproe	9.43	75	175456	0.0091 mg/kg	100
59)	4Meth2Pentan	9.63	43	1371432	0.1125 mg/kg	98
61)	Toluene	9.87	92	317896	0.0109 mg/kg	95
62)	t13Dicloprop	10.15	75	138385	0.0087 mg/kg	98
63)	ethylmethacrylate	10.28	69	242212	0.0168 mg/kg	96
64)	112Triclotha	10.39	83	85332	0.0096 mg/kg	96
65)	Tetrachlorte	10.60	166	166339	0.0112 mg/kg	98
66)	13Diclorpropa	10.62	76	171494	0.0097 mg/kg	97
68)	2Hexanone	10.72	43	907403	0.1005 mg/kg	99
69)	Clorodibrmta	10.91	129	114374	0.0090 mg/kg	99
70)	12Dibrometha	11.07	107	100870	0.0090 mg/kg	95
71)	Chlorobenzen	11.75	112	340826	0.0096 mg/kg	99
72)	1Clhexane	11.71	91	168084	0.0102 mg/kg	96
73)	1112Tetclota	11.86	131	119324	0.0093 mg/kg	99
74)	Ethylbenzene	11.90	91	588990	0.0103 mg/kg	98
75)	m p-Xylene	12.06	106	427816	0.0200 mg/kg	99
76)	o-Xylene	12.62	106	199445	0.0093 mg/kg	96
77)	Styrene	12.63	104	32200	0.0009 mg/kg#	1
78)	Bromoform	12.88	173	71513	0.0082 mg/kg	100
79)	Isopropylben	13.14	105	580369	0.0102 mg/kg	100
81)	cyclohexanone	13.25	55	111137	0.2339 mg/kg	99
83)	Bromobenzene	13.56	156	156882	0.0091 mg/kg	97
84)	1122Tetrclta	13.55	83	146539	0.0098 mg/kg	99
85)	123Triclproa	13.61	75	135202	0.0082 mg/kg	90
86)	14dichloro2butene	13.63	53	32039	0.0082 mg/kg	95
87)	n-Propylbenz	13.72	91	659520	0.0100 mg/kg	100
88)	2chlorotolue	13.84	91	387312	0.0095 mg/kg	98
89)	4chlorotolue	14.00	91	420710	0.0090 mg/kg	100
90)	135Trimebenz	13.98	105	432654	0.0093 mg/kg	98
91)	tbutylbenzen	14.45	119	429861	0.0099 mg/kg	99
92)	124Trimetben	14.52	105	375021	0.0080 mg/kg	95
93)	sbutylbenzen	14.77	105	628623	0.0103 mg/kg	100
94)	13Diclorbenz	14.93	146	272865	0.0087 mg/kg	99
95)	pIsopropylto	14.99	119	462277	0.0091 mg/kg	97
96)	14dichlorobe	15.05	146	257487	0.0083 mg/kg	98
97)	12dichlorobe	15.60	146	262396	0.0088 mg/kg	99
98)	nButylbenzen	15.58	91	415553	0.0097 mg/kg	99
99)	12dibromo3cl	16.70	157	28689	0.0088 mg/kg	95
100)	135Trichlorobenzene	17.00	180	172039	0.0077 mg/kg	98
101)	124Trichlobe	17.82	180	144032	0.0070 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\856734SD.D Vial: 42
Acq On : 28 Apr 2017 16:28 Operator: RLD-AGK
Sample : 137136,MSDS856734, Inst : VMS4
Misc : 6.33g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 16:49:33 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) Hexachlorobu	18.05	225	118787	0.0090 mg/kg	98
103) Naphthalene	18.13	128	227463	0.0057 mg/kg	98
104) 123Trichlben	18.44	180	133773	0.0069 mg/kg	98

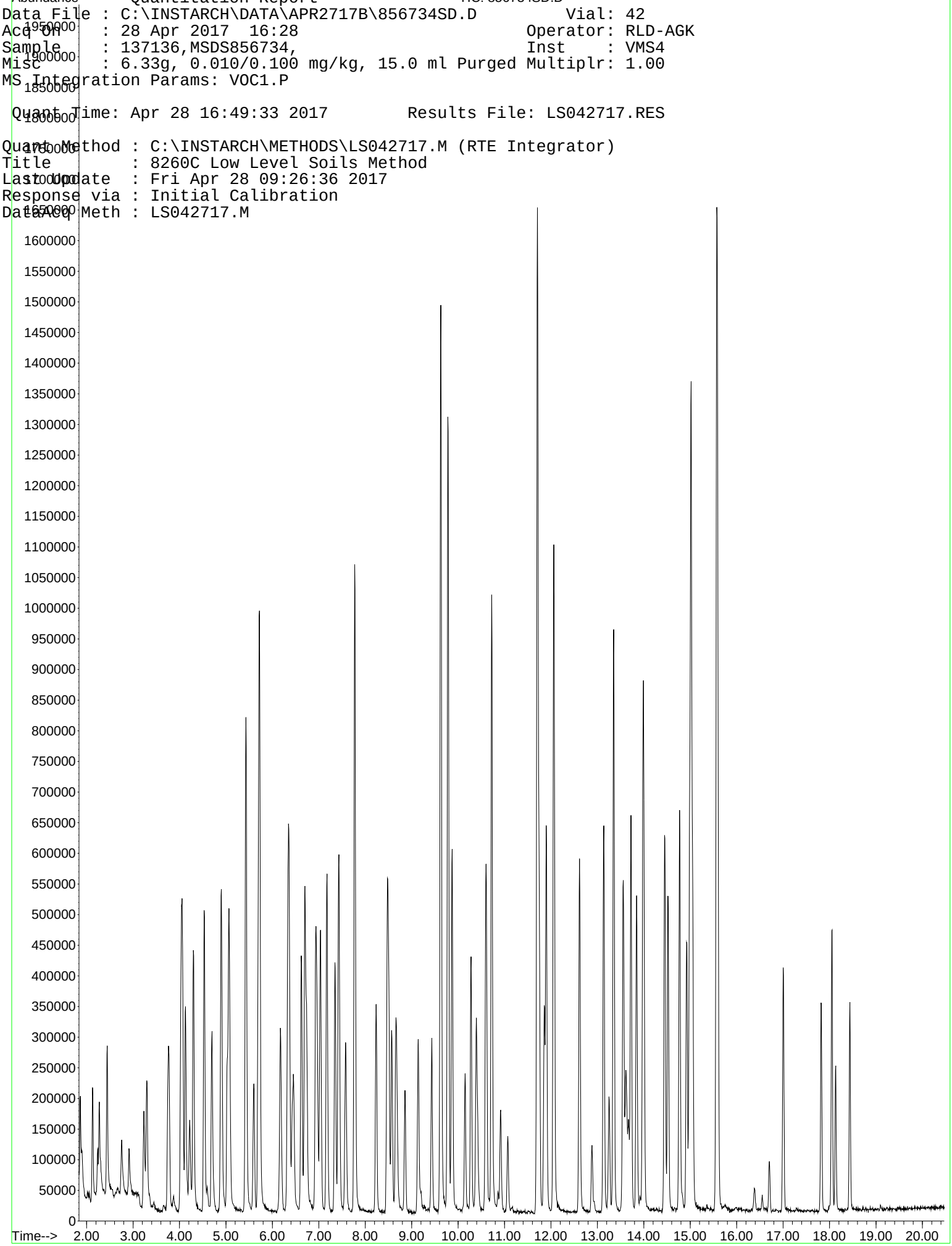
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: 856734SD.D

Data File : C:\INSTARCH\DATA\APR2717B\856734SD.D Vial: 42
Acq On : 28 Apr 2017 16:28 Operator: RLD-AGK
Sample : 137136,MSDS856734, Inst : VMS4
Misc : 6.33g, 0.010/0.100 mg/kg, 15.0 ml Purged Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Apr 28 16:49:33 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\LCSD-CCVF2.D Vial: 43
Acq On : 28 Apr 2017 16:57 Operator: RLD-AGK
Sample : 137137,LCSDS, 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 28 17:18:32 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.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**	7.77	96	1241388	0.02	mg/kg	0.00 NA%
67) d5-CHLOROBENZENE**ISTD**	11.71	117	971430	0.02	mg/kg	0.00 NA%
80) d4-1,4-DICHLOROBENZENE**IS	15.02	152	545957	0.02	mg/kg	0.00 NA%
System Monitoring Compounds						
41) SURRDibrflma	6.93	113	318713	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 78 - 119		Recovery = 100 %			
45) SURR12DCAd4	7.35	102	75501	0.021	mg/kg	0.00
Spiked Amount 0.020	Range 71 - 136		Recovery = 105 %			
60) SURRd8Tolule	9.79	98	1219838	0.020	mg/kg	0.00
Spiked Amount 0.020	Range 85 - 116		Recovery = 100 %			
82) SURR4BrFBenz	13.35	95	462501	0.019	mg/kg	0.00
Spiked Amount 0.020	Range 79 - 119		Recovery = 95 %			
Target Compounds						Qvalue
2) Dichlorodi	1.87	85	197207	0.0138	mg/kg	99
3) Chloromethan	2.13	50	201415	0.0105	mg/kg	98
4) VinylChlorid	2.27	62	170662	0.0105	mg/kg	96
5) Bromomethane	2.75	94	83928	0.0103	mg/kg	93
6) Chloroethane	2.92	64	84925	0.0098	mg/kg	98
7) dichloroflmethane	3.23	67	231056	0.0100	mg/kg	99
8) Trichlorofma	3.30	101	199786	0.0100	mg/kg	96
9) Ethylether	3.75	59	114569	0.0101	mg/kg	97
10) dichlorotfluoroethan	3.77	67	142563	0.0099	mg/kg	96
11) propyleneoxide	3.82	58	97046	0.1506	mg/kg	93
12) Acrolein	3.91	56	145649	0.0478	mg/kg	88
13) 11dichlorthe	4.03	96	119331	0.0100	mg/kg	94
14) Trichlorotfluoroeth	4.06	101	245013	0.0208	mg/kg	97
15) Acetone	4.13	43	539477	0.1043	mg/kg	98
16) Iodomethane	4.22	142	247107	0.0144	mg/kg	99
17) Carbon Dislf	4.30	76	705214	0.0203	mg/kg	100
18) allylchloride	4.53	41	493458	0.0207	mg/kg	99
19) methylacetate	4.59	74	27336	0.0109	mg/kg	94
20) Methylchlorid	4.69	84	171455	0.0106	mg/kg	96
21) Acrylonitrile	5.03	53	261169	0.0525	mg/kg	99
22) t12dichlorte	5.07	96	134916	0.0099	mg/kg	98
23) tbutylalcohol	4.90	59	713601	0.4807	mg/kg	95
24) MtBE	5.08	73	335767	0.0105	mg/kg	98
25) Hexane	5.43	57	405271	0.0219	mg/kg	98
26) 11dichlorota	5.60	63	262202	0.0103	mg/kg	98
27) Vinylacetate	5.69	43	2621345	0.0973	mg/kg	99
28) chloroprene	5.72	53	492322	0.0210	mg/kg	99
29) Diisopether	5.72	45	558080	0.0105	mg/kg#	78
30) ETBE	6.18	59	396289	0.0109	mg/kg	100
31) 22dichloropr	6.33	77	173755	0.0101	mg/kg	99
32) c12dichlorte	6.34	96	151844	0.0100	mg/kg	97
33) 2Butanone	6.37	72	133162	0.1010	mg/kg	99
34) propionitrile	6.43	54	207415	0.1037	mg/kg	97
35) Ethylacetate	6.46	88	24278	0.0518	mg/kg#	86
36) methacrylonitrile	6.62	67	100931	0.0197	mg/kg	89
37) Bromochlorma	6.63	128	72138	0.0106	mg/kg	96
38) Tetrahydofur	6.70	42	492756	0.1028	mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\APR2717B\LCSD-CCVF2.D Vial: 43
Acq On : 28 Apr 2017 16:57 Operator: RLD-AGK
Sample : 137137,LCSDS, 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 28 17:18:32 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	244301	0.0101	mg/kg	99
40)	111trichlota	6.96	97	203221	0.0098	mg/kg	99
42)	Cyclohexane	7.04	56	252982	0.0102	mg/kg	97
43)	Carbtetraclo	7.18	119	164883	0.0096	mg/kg	100
44)	11dicloprope	7.18	110	64835	0.0099	mg/kg	97
46)	Benzene	7.43	78	544581	0.0102	mg/kg	99
47)	12dichlorota	7.44	62	187350	0.0102	mg/kg	99
48)	TAME	7.58	73	310059	0.0112	mg/kg	97
49)	trichloroete	8.23	95	145897	0.0104	mg/kg	97
50)	methylcyclohexane	8.48	83	213656	0.0100	mg/kg	99
51)	12dicloropra	8.51	63	158863	0.0101	mg/kg	100
52)	23dicl1propene	8.57	75	215588	0.0105	mg/kg	97
53)	Dibromometha	8.65	93	83695	0.0102	mg/kg	96
54)	methylmethacrylate	8.67	69	79435	0.0092	mg/kg	95
55)	14dioxane	8.69	88	66297	0.4650	mg/kg	94
56)	Bromodiclrma	8.86	83	172237	0.0098	mg/kg	94
57)	2Nitropropane	9.14	43	248398	0.0815	mg/kg	98
58)	c13dicloproe	9.43	75	210083	0.0098	mg/kg	99
59)	4Meth2Pentan	9.63	43	1520084	0.1120	mg/kg	99
61)	Toluene	9.87	92	322534	0.0099	mg/kg	99
62)	t13Dicloprop	10.15	75	171040	0.0097	mg/kg	97
63)	ethylmethacrylate	10.28	69	321606	0.0200	mg/kg	99
64)	112Triclotha	10.39	83	101214	0.0102	mg/kg	95
65)	Tetrachlorte	10.60	166	167226	0.0101	mg/kg	99
66)	13Diclorpropa	10.61	76	201468	0.0102	mg/kg	100
68)	2Hexanone	10.72	43	1087619	0.1099	mg/kg	99
69)	Clorodibrmta	10.92	129	132584	0.0096	mg/kg	98
70)	12Dibrometha	11.07	107	124275	0.0101	mg/kg	100
71)	Chlorobenzen	11.75	112	379963	0.0097	mg/kg	97
72)	1Clhexane	11.71	91	168879	0.0094	mg/kg	96
73)	1112Tetclota	11.85	131	136520	0.0097	mg/kg	96
74)	Ethylbenzene	11.90	91	630030	0.0100	mg/kg	98
75)	m p-Xylene	12.06	106	453558	0.0193	mg/kg	98
76)	o-Xylene	12.62	106	235483	0.0101	mg/kg	96
77)	Styrene	12.63	104	394232	0.0100	mg/kg	100
78)	Bromoform	12.88	173	85264	0.0089	mg/kg	99
79)	Isopropylben	13.14	105	623711	0.0100	mg/kg	100
81)	cyclohexanone	13.25	55	97162	0.1860	mg/kg	99
83)	Bromobenzene	13.56	156	180874	0.0096	mg/kg	97
84)	1122Tetrclta	13.55	83	164971	0.0100	mg/kg	96
85)	123Triclproa	13.61	75	181386	0.0100	mg/kg	99
86)	14dichloro2butene	13.64	53	44596	0.0104	mg/kg	91
87)	n-Propylbenz	13.72	91	697543	0.0096	mg/kg	100
88)	2chlorotolue	13.84	91	430852	0.0096	mg/kg	98
89)	4chlorotolue	14.00	91	501664	0.0098	mg/kg	97
90)	135Trimebenz	13.98	105	502563	0.0098	mg/kg	99
91)	tbutylbenzen	14.45	119	457522	0.0096	mg/kg	98
92)	124Trimetben	14.53	105	500494	0.0097	mg/kg	98
93)	sbutylbenzen	14.77	105	669588	0.0099	mg/kg	100
94)	13Diclorbenz	14.93	146	327601	0.0095	mg/kg	99
95)	pIsopropylto	14.99	119	543528	0.0097	mg/kg	98
96)	14dichlorobe	15.05	146	326548	0.0095	mg/kg	98
97)	12dichlorobe	15.60	146	322176	0.0099	mg/kg	98
98)	nButylbenzen	15.58	91	462439	0.0098	mg/kg	97
99)	12dibromo3cl	16.71	157	33861	0.0095	mg/kg	97
100)	135Trichlorobenzene	17.01	180	237081	0.0096	mg/kg	98
101)	124Trichlobe	17.82	180	218349	0.0096	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report
Data File : C:\INSTARCH\DATA\APR2717B\LCSD-CCVF2.D Vial: 43
Acq On : 28 Apr 2017 16:57 Operator: RLD-AGK
Sample : 137137,LCSDS, 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 28 17:18:32 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) Hexachlorobu	18.05	225	139396	0.0096	mg/kg	99
103) Naphthalene	18.13	128	430224	0.0098	mg/kg	99
104) 123Trichlben	18.44	180	209948	0.0098	mg/kg	98

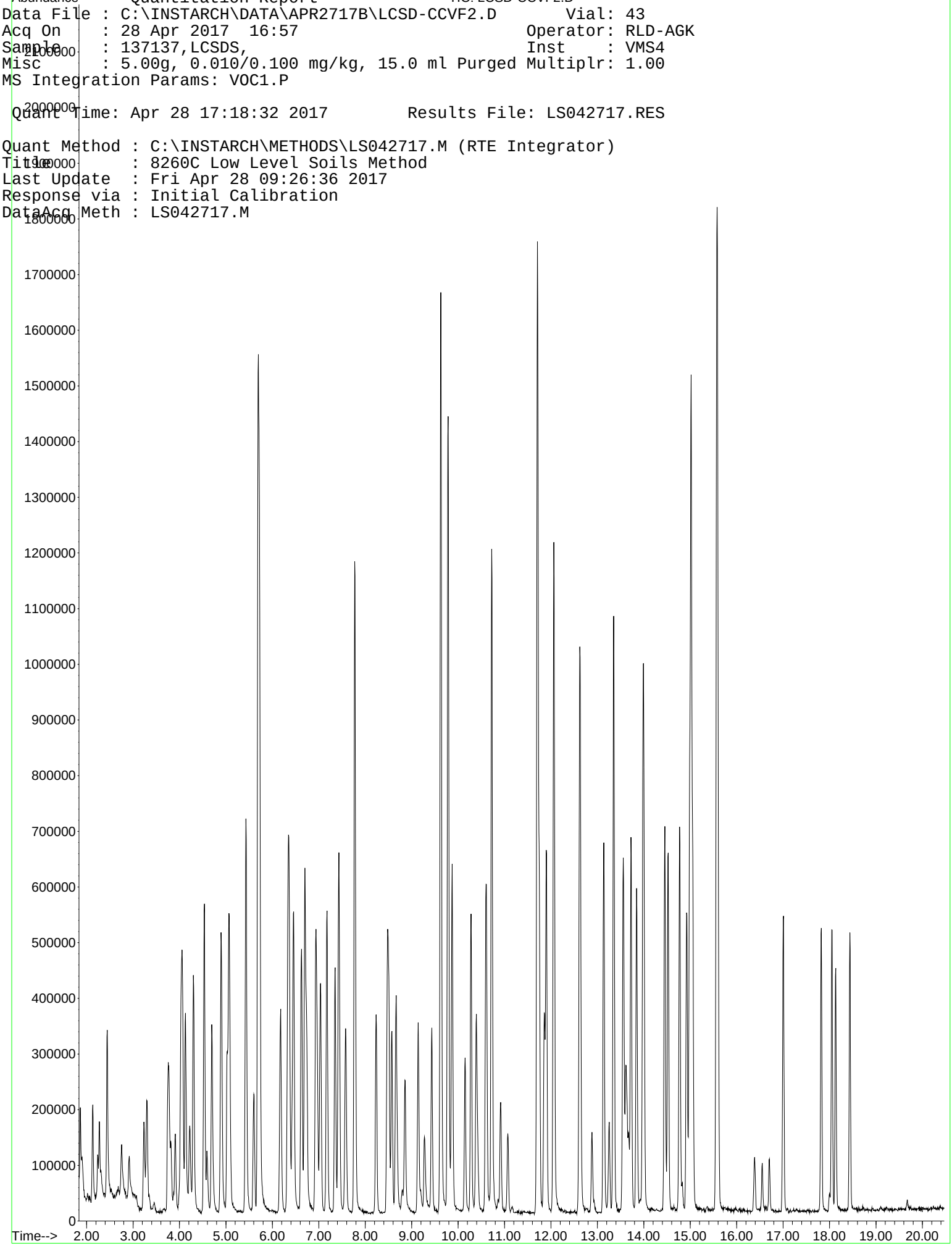
(#) = qualifier out of range (m) = manual integration

Abundance Quantitation Report TIC: LCSD-CCVF2.D

Data File : C:\INSTARCH\DATA\APR2717B\LCSD-CCVF2.D Vial: 43
Acq On : 28 Apr 2017 16:57 Operator: RLD-AGK
Sample : 137137,LCSDS, 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 28 17:18:32 2017 Results File: LS042717.RES

Quant Method : C:\INSTARCH\METHODS\LS042717.M (RTE Integrator)
Title : 8260C Low Level Soils Method
Last Update : Fri Apr 28 09:26:36 2017
Response via : Initial Calibration
DataAcq Meth : LS042717.M



VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS

V 8260 QSM LL H2O 5.0 Analytical Run
136990 on 4/26/2017

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
	857889							V 8260 QSM LL H2O 5.0				
					BFB				0			
	857898							V 8260 QSM LL H2O 5.0				
					LCSW				0			
	857900							V 8260 QSM LL H2O 5.0				
					CCV				0			
	857932							V 8260 QSM LL H2O 5.0				
					MBW				0			
126716	856724	DF-TB-2-1704	4/18/2017	0945		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		M	**4**	
126716	856725	DF-RB-2-1704	4/18/2017	1210		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		GW	**4**	
126716	856732	DF-TB-1-1704	4/17/2017	0910		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		M	**4**	
126716	856733	DF-RB-1-1704	4/17/2017	1120		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		GW	**4**	
	858359							V 8260 QSM LL H2O 5.0				
					LCSDW 857898				0			
	858360							V 8260 QSM LL H2O 5.0				
					CCVF				0			

10 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

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW040917.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR2117\BFB1.D
Injection Date : 21 Apr 2017 Log Time Period (hrs) : ALL
Injection Time : 08:02 Total files within period : 45
Sample Directory : C:\INSTARCH\DATA\APR2117\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date	Time
IB1	1.00	1.00	1.00	INSTRUMENT BLANK 25.0 ml DI H2O Purge	21 Apr 2017	08:15
CCV-LCS1	1.00	1.00	1.00	136714,LCSW, 4.00/40.00 ug/L, 25.	21 Apr 2017	08:43
IB2	1.00	1.00	1.00	INSTRUMENT BLANK 25.0 ml DI H2O Purge	21 Apr 2017	09:11
MB1	1.00	1.00	1.00	136714,MBW, pH<2, 25.0 ml DI H2O	21 Apr 2017	09:39
856724	1.00	1.00	1.00	136990,856724, pH<2, 25.0 ml Purged	21 Apr 2017	10:07
856725	1.00	1.00	1.00	136990,856725, pH<2, 25.0 ml Purged	21 Apr 2017	10:35
856732	1.00	1.00	1.00	136990,856732, pH<2, 25.0 ml Purged	21 Apr 2017	11:03
856733	1.00	1.00	1.00	136990,856733, pH<2, 25.0 ml Purged	21 Apr 2017	11:31
LCSD-CCVF1	1.00	1.00	1.00	136990,LCSDW, 4.00/40.00 ug/L, 25.	21 Apr 2017	19:34

8260 ISTD/SSTD 20ug/ml VOC0314
8260 BFB STD. 50ug/ml VOC0313
8260 ICV STD. 100ug/ml VOC0315
8260 CCV/CALIB. 100ug/ml VOC0316

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? Yes	Approved? No	Instrument
04/21/2017	136713 136714 136921 136922 136990	AGK/RLD	RLD	04/26/2017	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 Yes	Analyst Review No	Independent Review Yes	Independent Review No	Comments:
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		If no, Do not proceed with analyses.
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		If no, recalibrate with required # of levels
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, recalibrate.
Was a second-source ICV analyzed?	Required before sample analyses.	Yes		Yes		If no, analyze prior to sample analyses.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalyzed ICV to address failures
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		If no, analyzed ICB before sample analyses.
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits		No		No	If no, analyze another blank to address detects.
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		If no, reanalyze BFB until acceptable; re-tuning the instrument may be necessary.
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		If no, analyzed CCV after acceptable tune check.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific		No		No	If no, reanalysis or recalibration may be required.
If necessary, were the results for outlying compounds qualified?		Yes		Yes		If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MB with each sample batch.
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)		No		No	If no, reanalyze MB an all affected data if possible or see SOP for more detailed criteria
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.?		Yes		Yes		If yes, affected results qualified "B"
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		If no, analyze a LCS with each sample batch.
Were the LCS (LCSD) recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.		No		No	If no, Reanalyze LCS and all affected data if possible or data requires qualification.
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?		Yes		Yes		If yes, affected results qualified "Q"
Is the relative percent difference (RPD) for each analyte between the LCS and LSCD (if applicable) acceptable?	generated limits, or client specific limits.					If no, affected results qualified "Y"
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		If no, analyze a MS/MSD pair with each sample batch.
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	If no, qualify detects (with an "M" flag) in the parent sample, also qualify non-detects if MS/MSD recoveries were low.
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	generated limits, or client specific limits.		No		No	If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If no, instrument maintenance may be required to correct problems.
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 no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed. Low surrogate recoveries require reanalysis.
If possible, were the affected samples reanalyzed?			No		No	If no, see below **
**Were reported sample results with failing surrogate recoveries qualified?		Yes		Yes		If yes, affected results qualified "S"
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		If no, see below: If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		If no, include sequence run with raw data.
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		If no, recapture the data and verify data prior to validation.
Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		IF No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
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		If No, include proper qualification(s) in LIMS and enter nonconformities into the NCR spreadsheet before data review/validation.

Non-applicable Yes/No cells are left blank

Comments:

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW040917.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR0917\BFB1.D
Injection Date : 9 Apr 2017 Log Time Period (hrs) : ALL
Injection Time : 09:18 Total files within period : 17
Sample Directory : C:\INSTARCH\DATA\APR0917\

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	9 Apr 2017	11:01
LLCALW2	1.00	1.00	1.00	CALIB. PT. 2 0.50/5.00 ug/L, 25.0	9 Apr 2017	11:29
LLCALW3	1.00	1.00	1.00	CALIB. PT. 3 1.00/10.00 ug/L, 25.	9 Apr 2017	11:58
LLCALW4	1.00	1.00	1.00	CALIB. PT. 4 2.00/20.00 ug/L, 25.	9 Apr 2017	12:26
LLCALW5	1.00	1.00	1.00	CALIB. PT. 5 4.00/40.00 ug/L, 25.	9 Apr 2017	12:54
LLCALW6	1.00	1.00	1.00	CALIB. PT. 6 6.00/60.00 ug/L, 25.	9 Apr 2017	13:23
LLCALW7	1.00	1.00	1.00	CALIB. PT. 7 8.00/80.00 ug/L, 25.	9 Apr 2017	13:51
LLCALW8	1.00	1.00	1.00	CALIB. PT. 8 16.00/160.0 ug/L, 25	9 Apr 2017	14:19
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 4.00/40.00 ug/L, 25.	9 Apr 2017	15:15
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 8.00/80.00, 25.0 ml	9 Apr 2017	15:43
ICB1	1.00	1.00	1.00	INITIAL CALIB BLANK pH<2, 25.0 ml DI H2O	9 Apr 2017	17:07

8260 ISTD/SSTD 20ug/ml VOC0314
8260 BFB STD. 50ug/ml VOC0313
8260 ICV STD. 100ug/ml VOC0315
8260 CCV/CALIB. 100ug/ml VOC0316

V 8260 QSM LL SOIL 5.0 Analytical Run
137136 on 05/04/2017

Date Analyzed: RJ 05/04/2017

Date Entered: RJ 05/04/2017

Date Reviewed: AgK 05/08/17

Date Validated: RJ 05/04/2017

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	860864						V 8260 QSM LL SOIL 5.0				
				BFB				0			
	860863						V 8260 QSM LL SOIL 5.0				
				CCV				0			
	858783						VOC 8260 QSM LL 5.0				
				LCSS				62086			
	858782						VOC 8260 QSM LL 5.0				
				MBS				62086			
126716	856713	04/17/2017	1505		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB59-16-1704						62086			
126716	856716	04/17/2017	1510		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB59-20-1704						62086			
126716	856717	04/18/2017	0945		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB62-10-1704						62086			
126716	856718	04/18/2017	0950		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB62-16-1704						62086			
126716	856719	04/18/2017	1015		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB63-7-1704						62086			
126716	856720	04/18/2017	1020		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB63-15-1704						62086			
126716	856721	04/18/2017	1115		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB67-3-1704						62086			
126716	856722	04/18/2017	1120		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB67-10-1704						62086			
126716	856723	04/18/2017			TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-DUP-2-1704						62086			
126716	856726	04/18/2017	1250		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB66-19-1704						62086			
126716	856727	04/17/2017	0910		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB61-13-1704						62086			
126716	856728	04/17/2017	0920		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB61-20-1704						62086			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

V 8260 QSM LL SOIL 5.0 Analytical Run
137136 on 05/04/2017

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
126716	856729		04/17/2017 1005		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB60-16-1704						62086			
126716	856730		04/17/2017 1010		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB60-19-1704						62086			
126716	856731		04/17/2017		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-DUP-1-1704						62086			
126716	856734		04/17/2017 1320		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB58-11-1704		Designated MS/MSD				62086			
126716	856737		04/17/2017 1330		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB58-23-1704						62086			
126716	856738		04/18/2017 1300		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB66-12-1704						62086			
	858785		04/17/2017 1320				VOC 8260 QSM LL 5.0				
		DF-SB58-11-1704		MSS 856734				62086			
	860921						V 8260 QSM LL SOIL 5.0				
				CCVF				0			
	860937						V 8260 QSM LL SOIL 5.0				
				BFB				0			
	860940						V 8260 QSM LL SOIL 5.0				
				CCV				0			
	861120						V 8260 QSM LL SOIL 5.0				
				CCB				0			
	858786		04/17/2017 1320				VOC 8260 QSM LL 5.0				
		DF-SB58-11-1704		MSDS 858785				62086			
	863484						V 8260 QSM LL SOIL 5.0				
				CCVF				0			

29 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

PREP WORKSHEET
on 05/04/2017

Prep Batch **62,086** Date Prepped: 04/26/2017 Prepped By RLD

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	858782	MBS		VOC 8260 QSM LL 5.0	SOLID	5.0	5.00			
	858783	LCSS		VOC 8260 QSM LL 5.0	SOLID	5.0	5.00			
126716	856713			VOC 8260 QSM LL 5.0	SOIL	5.0	6.24		4	
	856716			VOC 8260 QSM LL 5.0	SOIL	5.0	6.15		4	
	856717			VOC 8260 QSM LL 5.0	SOIL	5.0	6.32		4	
	856718			VOC 8260 QSM LL 5.0	SOIL	5.0	6.53		4	
	856719			VOC 8260 QSM LL 5.0	SOIL	5.0	6.48		4	
	856720			VOC 8260 QSM LL 5.0	SOIL	5.0	6.40		4	
	856721			VOC 8260 QSM LL 5.0	SOIL	5.0	5.37		4	
	856722			VOC 8260 QSM LL 5.0	SOIL	5.0	6.03		4	
	856723			VOC 8260 QSM LL 5.0	SOIL	5.0	4.59		4	
	856726			VOC 8260 QSM LL 5.0	SOIL	5.0	5.86		4	
	856727			VOC 8260 QSM LL 5.0	SOIL	5.0	6.08		4	
	856728			VOC 8260 QSM LL 5.0	SOIL	5.0	6.72		4	
	856729			VOC 8260 QSM LL 5.0	SOIL	5.0	6.84		4	
	856730			VOC 8260 QSM LL 5.0	SOIL	5.0	6.84		4	
	856731			VOC 8260 QSM LL 5.0	SOIL	5.0	6.78		4	

PREP WORKSHEET
on 05/04/2017

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
126716	856734	*		VOC 8260 QSM LL 5.0	SOIL	5.0	6.46		4	
	856737			VOC 8260 QSM LL 5.0	SOIL	5.0	6.67		4	
	856738			VOC 8260 QSM LL 5.0	SOIL	5.0	4.24		4	
	858785	MSS	856734	VOC 8260 QSM LL 5.0	SOIL	5.0	5.98			
	858786	MSDS	858785	VOC 8260 QSM LL 5.0	SOIL	5.0	6.33			

Notes:_____

FVO3,4-08

VOC SOILS LOW LEVEL - PREP BENCHSHEET

Prep Batch #:	62086
Method:	8260C
Analyst:	RLD
Date:	04/26/2017
Start Time:	21:15

NON-LUST
Balance# VOB01

	Sample ID	Sample Weight B (g)	Sample Weight C (g)	Sample Weight A (g)		Sodium Bisulfate Solution (mL)
1	856713	5.04		6.24		5.0
2	856716	5.92		6.15		5.0
3	856717	6.47		6.32		5.0
4	856718	6.54		6.53		5.0
5	856719	6.89		6.48		5.0
6	856720	6.69		6.40		5.0
7	856721	5.86		5.37		5.0
8	856722	6.10		6.03		5.0
9	856723	5.71		4.59		5.0
10	856726	7.31		5.86		5.0
11	856727	5.94		6.08		5.0
12	856728	6.40		6.72		5.0
13	856729	6.78		6.84		5.0
14	856730	6.69		6.84		5.0
15	856731	5.85		6.78		5.0
16	856734	6.19		6.46		5.0
17	856767	6.28		6.67		5.0
18	856738	5.69		4.24		5.0
19	MSS856734	6.93		5.98		5.0
20	MSDS856734	6.04		6.33		5.0

Stop Time:	21:30

Sodium Bisulfate Solution (0.5g NaHSO4 / 5.0mL of DI H2O):	VOC0264
Sample Wt = Total Wt - Jar Wt - 0.25 (Label Wt.)	

V 8260 QSM LL SOIL 5.0 Analytical Run
137137 on 05/04/2017

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
	860936							V 8260 QSM LL SOIL 5.0				
					BFB				0			
	860939							V 8260 QSM LL SOIL 5.0				
					CCV				0			
	858788							VOC 8260 QSM LL 5.0				
					LCSS				62087			
	858787							VOC 8260 QSM LL 5.0				
					MBS				62087			
126716	856739		04/18/2017	1320		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB65-19-1704							62087			
126716	856740		04/18/2017	1335		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB65-5-1704							62087			
126716	856741		04/18/2017	1405		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB64-18-1704							62087			
126716	856742		04/18/2017	1420		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	VOC 8260 QSM LL 5.0		S	**4**	
		DF-SB64-13-1704							62087			
	858789							VOC 8260 QSM LL 5.0				
					LCSDS 858788				62087			
	863482							V 8260 QSM LL SOIL 5.0				
					CCVF				0			

10 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

PREP WORKSHEET
on 05/04/2017

Prep Batch **62,087** Date Prepped: 04/26/2017 Prepped By RLD

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	858787	MBS		VOC 8260 QSM LL 5.0	SOLID	5.0	5.00			
	858788	LCSS		VOC 8260 QSM LL 5.0	SOLID	5.0	5.00			
	858789	LCSDS	858788	VOC 8260 QSM LL 5.0	SOLID	5.0	5.00			
126716	856739			VOC 8260 QSM LL 5.0	SOIL	5.0	5.33		4	
	856740			VOC 8260 QSM LL 5.0	SOIL	5.0	5.72		4	
	856741			VOC 8260 QSM LL 5.0	SOIL	5.0	5.83		4	
	856742			VOC 8260 QSM LL 5.0	SOIL	5.0	5.64		4	

Notes:_____

FVO3,4-08

VOC SOILS LOW LEVEL - PREP BENCHSHEET

Prep Batch #:	62087
Method:	8260C
Analyst:	RLD
Date:	04/26/2017
Start Time:	21:35

NON-LUST
Balance# VOB01

	Sample ID	Sample Weight B (g)	Sample Weight C (g)	Sample Weight A (g)		Sodium Bisulfate Solution (mL)
1	856739	5.98		5.33		5.0
2	856740	5.65		5.72		5.0
3	856741	5.87		5.83		5.0
4	856742	5.76		5.64		5.0
5						5.0
6						5.0
7						5.0
8						5.0
9						5.0
10						5.0
11						5.0
12						5.0
13						5.0
14						5.0
15						5.0
16						5.0
17						5.0
18						5.0
19						5.0
20						5.0

Stop Time:	21:45

Sodium Bisulfate Solution (0.5g NaHSO4 / 5.0mL of DI H2O):	VOC0264
Sample Wt = Total Wt - Jar Wt - 0.25 (Label Wt.)	

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Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS042717.M
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR2717B\BFB1.D
Injection Date : 27 Apr 2017 Log Time Period (hrs) : ALL
Injection Time : 20:56 Total files within period : 42
Sample Directory : C:\INSTARCH\DATA\APR2717B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name Misc Info	Date Time
CCV1	1.00	1.00	1.00	137136,CCV, 0.010/0.100 mg/kg, 1	27 Apr 2017 21:10
LCS1	1.00	1.00	1.00	137136,LCSS, 5.00g, 0.010/0.100 m	27 Apr 2017 21:39
IB1	1.00	1.00	1.00	INSTRUMENT BLANK 15.0 ml DI H2O Purge	27 Apr 2017 22:08
MB1	1.00	1.00	1.00	137136,MBS, 5.00g, 15.0 ml Purge	27 Apr 2017 22:37
856713	1.00	1.00	1.00	137136,856713, 6.24g, 15.0 ml Purge	27 Apr 2017 23:06
856716	1.00	1.00	1.00	137136,856716, 6.15g, 15.0 ml Purge	27 Apr 2017 23:35
856717	1.00	1.00	1.00	137136,856717, 6.32g, 15.0 ml Purge	28 Apr 2017 00:04
856718	1.00	1.00	1.00	137136,856718, 6.53g, 15.0 ml Purge	28 Apr 2017 00:33
856719	1.00	1.00	1.00	137136,856719, 6.48g, 15.0 ml Purge	28 Apr 2017 01:02
856720	1.00	1.00	1.00	137136,856720, 6.40g, 15.0 ml Purge	28 Apr 2017 01:31
856721	1.00	1.00	1.00	137136,856721, 5.37g, 15.0 ml Purge	28 Apr 2017 02:00
856722	1.00	1.00	1.00	137136,856722, 6.03g, 15.0 ml Purge	28 Apr 2017 02:29
856723	1.00	1.00	1.00	137136,856723, 4.59g, 15.0 ml Purge	28 Apr 2017 02:58
856726	1.00	1.00	1.00	137136,856726, 5.86g, 15.0 ml Purge	28 Apr 2017 03:27
856727	1.00	1.00	1.00	137136,856727, 6.08g, 15.0 ml Purge	28 Apr 2017 03:55
856728	1.00	1.00	1.00	137136,856728, 6.72g, 15.0 ml Purge	28 Apr 2017 04:24
856729	1.00	1.00	1.00	137136,856729, 6.84g, 15.0 ml Purge	28 Apr 2017 04:53
856730	1.00	1.00	1.00	137136,856730, 6.84g, 15.0 ml Purge	28 Apr 2017 05:22
856731	1.00	1.00	1.00	137136,856731, 6.78g, 15.0 ml Purge	28 Apr 2017 05:51
856734	1.00	1.00	1.00	137136,856734, 6.46g, 15.0 ml Purge	28 Apr 2017 06:20
856737	1.00	1.00	1.00	137136,856737, 6.67g, 15.0 ml Purge	28 Apr 2017 06:49
856738	1.00	1.00	1.00	137136,856738, 4.24g, 15.0 ml Purge	28 Apr 2017 07:18
856734MS	1.00	1.00	1.00	137136,MSS856734, 5.98g, 0.010/0.100 m	28 Apr 2017 08:08
CCVF1	1.00	1.00	1.00	137136,CCVF, 0.010/0.100 mg/kg, 1	28 Apr 2017 08:37
BFB2	1.00	1.00	1.00	137137,BFB, 50 ng Injection	28 Apr 2017 09:01

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CCV2	1.00	1.00	1.00	137137,CCV, 0.010/0.100 mg/kg, 1	28 Apr 2017 09:15
LCS2	1.00	1.00	1.00	137137,LCSS, 5.00g, 0.010/0.100 m	28 Apr 2017 09:44
IB2	1.00	1.00	1.00	INSTRUMENT BLANK 15.0 ml DI H2O Purge	28 Apr 2017 10:13
MB2-CCB1	1.00	1.00	1.00	137137,MBS, 5.00g, 15.0 ml Purge	28 Apr 2017 10:42
856739	1.00	1.00	1.00	137137,856739, 5.33g, 15.0 ml Purge	28 Apr 2017 11:10
856740	1.00	1.00	1.00	137137,856740, 5.72g, 15.0 ml Purge	28 Apr 2017 11:39
856741	1.00	1.00	1.00	137137,856741, 5.83g, 15.0 ml Purge	28 Apr 2017 12:09
856742	1.00	1.00	1.00	137137,856742, 5.64g, 15.0 ml Purge	28 Apr 2017 12:37
IB3	1.00	1.00	1.00	INSTRUMENT BLANK 15.0 ml DI H2O Purge	28 Apr 2017 16:00
856734SD	1.00	1.00	1.00	137136,MSDS856734, 6.33g, 0.010/0.100 m	28 Apr 2017 16:28
LCSD-CCVF2	1.00	1.00	1.00	137137,LCSDS, 5.00g, 0.010/0.100 m	28 Apr 2017 16:57

8260 ISTD/SSTD 20ug/ml VOC0314
8260 BFB STD. 50ug/ml VOC0313
8260 ICV STD. 100ug/ml VOC0323
8260 CCV/CALIB. 100ug/ml VOC0324

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? Yes	Approved? No	Instrument
04/27/2017B	137136, 137137, 137139	RLD	AGK	05/08/2017	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 Yes	Analyst Review No	Independent Review Yes	Independent Review No	Comments:
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		If no, Do not proceed with analyses.
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		If no, recalibrate with required # of levels
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, recalibrate.
Was a second-source ICV analyzed?	Required before sample analyses.	Yes		Yes		If no, analyze prior to sample analyses.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalyzed ICV to address failures
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		If no, analyzed ICB before sample analyses.
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits		No		No	If no, analyze another blank to address detects.
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		If no, reanalyze BFB until acceptable; re-tuning the instrument may be necessary.
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		If no, analyzed CCV after acceptable tune check.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalysis or recalibration may be required.
If necessary, were the results for outlying compounds qualified?						If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MB with each sample batch.
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)		No		No	If no, reanalyze MB an all affected data if possible or see SOP for more detailed criteria
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.?		Yes		Yes		If yes, affected results qualified "B"
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		If no, analyze a LCS with each sample batch.
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 no, Reanalyze LCS and all affected data if possible or data requires qualification.
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?						If yes, affected results qualified "Q"
Is the relative percent difference (RPD) for each analyte between the LCS and LSCD (if applicable) acceptable?	generated limits, or client specific limits.	Yes		Yes		If no, affected results qualified "Y"
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		If no, analyze a MS/MSD pair with each sample batch.
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	If no, qualify detects (with an "M" flag) in the parent sample, also qualify non-detects if MS/MSD recoveries were low.
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	generated limits, or client specific limits.		No		No	If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If no, instrument maintenance may be required to correct problems.
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 no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed. Low surrogate recoveries require reanalysis.
If possible, were the affected samples reanalyzed?						If no, see below **
**Were reported sample results with failing surrogate recoveries qualified?						If yes, affected results qualified "S"
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		If no, see below: If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		If no, include sequence run with raw data.
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		If no, recapture the data and verify data prior to validation.
Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		IF No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
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		If No, include proper qualification(s) in LIMS and enter nonconformities into the NCR spreadsheet before data review/validation.

Non-applicable Yes/No cells are left blank

Comments:

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LS042717.M
Title : 8260C Low Level Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\APR2717\BFB1.D
Injection Date : 27 Apr 2017 Log Time Period (hrs) : ALL
Injection Time : 10:40 Total files within period : 21
Sample Directory : C:\INSTARCH\DATA\APR2717\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
LLCALS1	1.00	1.00	1.00	CALIB. PT. 1 0.001/0.010 mg/kg, 1	27 Apr 2017	11:50
LLCALS2	1.00	1.00	1.00	CALIB. PT. 2 0.002/0.020 mg/kg, 1	27 Apr 2017	12:19
LLCALS3	1.00	1.00	1.00	CALIB. PT. 3 0.005/0.050 mg/kg, 1	27 Apr 2017	12:48
LLCALS4	1.00	1.00	1.00	CALIB. PT. 4 0.010/0.100 mg/kg, 1	27 Apr 2017	13:17
LLCALS5	1.00	1.00	1.00	CALIB. PT. 5 0.020/0.200 mg/kg, 1	27 Apr 2017	13:46
LLCALS6	1.00	1.00	1.00	CALIB. PT. 6 0.030/0.300 mg/kg, 1	27 Apr 2017	14:15
LLCALS7	1.00	1.00	1.00	CALIB. PT. 7 0.040/0.400 mg/kg, 1	27 Apr 2017	14:44
LLCALS8	1.00	1.00	1.00	CALIB. PT. 8 0.080/0.800 mg/kg, 1	27 Apr 2017	15:13
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.010/0.10 mg/kg, 15	27 Apr 2017	16:11
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.030/0.30 mg/kg, 15	27 Apr 2017	16:40
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 5.00g, 15.0 ml Purge	27 Apr 2017	17:38

8260 ISTD/SSTD 20ug/ml VOC0314
8260 BFB STD. 50ug/ml VOC0313
8260 ICV STD. 100ug/ml VOC0323
8260 CCV/CALIB. 100ug/ml VOC0324

LPVO1-02 VOC
Volatiles Standards Prep Logbook
Logbook Created: 10/10/16
Balance used in reagent prep: VOB01
NOTEBOOK VIEW: LTN_LPVO1_02_VOC_Default, NOTEBOOK: LPVO1_02_VOC, PAGE: 35
Page is Locked
Author: RDIGMANN on: 4/24/2017 11:36:04 AM
Page is not Witnessed
Project: Unassigned
Page Title: 042017

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0321	8015 CCV/Calib. Std.	Into a 5-mL volumetric flask, add 1.0 mL of 5,000 ug/mL Unleaded Gasoline Std. V0795 and bring to volume with MeOH.	MeOH / Omnisolv - 56029	1,000 ug/mL	04/20/2017	10/20/2017	MDS

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0322	8015 ICV/Spiking Std.	Into a 5-mL volumetric flask, add 0.25 mL of 20,000 ug/mL Unleaded Gasoline Std. V0796 and bring to volume with MeOH.	MeOH / Omnisolv - 56029	1,000 ug/mL	04/20/2017	10/20/2017	MDS

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0323	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0824, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0816, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0820 into 2250uL of MeOH.	MeOH / OSolv / 56029	100 ug/mL	04/20/2017	04/27/2017	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0324	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0813, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0815, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0821 into 2250uL of MeOH.	MeOH / OSolv / 56029	100 ug/mL	04/20/2017	04/27/2017	RLD

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LPVO1-02 VOC
Volatiles Standards Prep Logbook
Logbook Created: 10/10/16
Balance used in reagent prep: VOB01
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Page is Locked
Author: rdigmann on: 12.04.2017 08:06:00
Page is not Witnessed
Project: Unassigned
Page Title: 040417

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0313	8260 BFB Std.	75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V0787 into 2925uL of MeOH.	MeOH / OSolv / 56029	50 ug/mL	04/04/2017	05/04/2017	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0314	8260 ISTD/SSTD	200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V0799 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-$_{d4}$ Std. V756 into 25mL of MeOH.	MeOH / OSolv / 56029	20 ug/mL	04/04/2017	05/04/2017	RLD

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0822	8260 ISTD/SSTD Mix	Ultra Scientific	STM-540	CP-5637
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,500 ug/mL	MeOH	12/31/2019	02/20/2017	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ISTD/SSTD preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0823	1,2-Dichlorobenzene-$_{d4}$	Ultra Scientific	STS-210-1	RM07505
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	09/30/2019	02/20/2017	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ISTD/SSTD preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0824	8260 VOC Mix	AccuStandard	M-502-10X-PAK	216091260
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	09/26/2019	02/22/2017	RLD
# of Ampules/Units:	5	Comments:	Used for 8260 ICV/Spiking Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0817	2-Methylpentane; 1,2,4-Trimethylbenzene	SPEX CertiPrep	VO-CTWI-1	C1141107008
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 ug/mL	MeOH	11/069/2017	02/13/2017	RLD
# of Ampules/Units:	1	Comments:	Used for 8015C RTW Standard prep.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0818	1,4-Dioxane	SPEX CertiPrep	S-1715	BW160115004
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 ug/mL	MeOH	01/14/2019	02/13/2017	RLD
# of Ampules/Units:	1	Comments:	Used for 8260 (1,4-Dioxane) SIM ICV/Spiking Std. Prep.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0819	1,4-Dioxane	SPEX CertiPrep	S-1715	BW160907011
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 ug/mL	MeOH	09/07/2019	02/13/2017	RLD
# of Ampules/Units:	1	Comments:	Used for 8260 (1,4-Dioxane) SIM CCV/Calib.Std. Prep.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #

V0820	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW170207014
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	05/08/2017	02/13/2017	RLD
# of Ampules/Units:	2	Comments:	Used for 8260C ICV/Spiking Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0821	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW170207015
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	05/08/2017	02/13/2017	RLD
# of Ampules/Units:	2	Comments:	Used for 8260C CCv/Calib. Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0815	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	BW170103005
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	07/02/2017	01/09/2017	RLD
# of Ampules/Units:	2	Comments:	Used to prepare 8260 CCV/CALIB. Standard.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0816	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	BW170103009
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	07/02/2017	01/09/2017	RLD
# of Ampules/Units:	2	Comments:	Used to prepare 8260 ICV/Spiking Standard.	

LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
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Author: rdigmann on: 10.01.2017 08:07:30
Witness: AKURTH on: 08.02.2017 13:34:41
Project: Unassigned
Page Title: 122316

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0813	8260 VOC Mix	Ultra Scientific	DWM-588-1	CP-4768
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	10/31/2019	12/19/2016	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 CCV/Calib. Std. preparation.	

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LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015

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Page is Unlocked
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Project: Unassigned
Page Title: 112916

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0811	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW161104005
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	02/02/2017	11/28/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib. Std. preparation.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0812	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW161111008
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	02/09/2017	11/28/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Std. preparation.	

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LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
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Author: AAnstett on: 21.10.2016 13:51:38
Page is not Witnessed
Project: Unassigned
Page Title: 101816

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0807	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	BW161011017
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	04/19/2017	10/18/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Standard.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0808	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	BW161011018
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	04/09/2017	10/18/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib. Standard.	

LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015

NOTEBOOK VIEW: LTN_LSVO1_01_VOC_Default, NOTEBOOK: LSVO1_01_VOC, PAGE: 27
Page is Locked
Author: AAnstett on: 07.10.2016 13:35:31
Page is not Witnessed
Project: Unassigned
Page Title: 092616

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0804	8260 VOC Mix	AccuStandard	M-502-10X-PAK	216071115
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	07/13/2019	09/26/2016	RLD
# of Ampules/Units:	5	Comments:	Used to prepare 8260 ICV/Spiking Std.	

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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0799	8260 ISTD/SSTD Mix	Ultra Scientific	STM-540	CM-1098
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,500 ug/mL	MeOH	04/30/2018	08/22/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ISTD/SSTD.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0800	8260 VOC Mix	Ultra Scientific	DWM-588-1	CP-2742
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	07/31/2019	08/22/2016	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 CCV/Calib. Std.	

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LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
NOTEBOOK VIEW: LTN_LSVO1_01_VOC_Default, NOTEBOOK: LSVO1_01_VOC, PAGE: 18
Page is Locked
Author: rdigmann on: 06.07.2016 10:03:05
Witness: AAnstett on: 03.08.2016 13:47:19
Project: Unassigned
Page Title: 062216

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0787	4-Bromofluorobenzene	Ultra Scientific	STS-110N	CH-3248A
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	11/30/2017	06/21/2016	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 BFB Standard.	

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CT Laboratories, LLC

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION and EXPIRATION DATE [1]	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V742	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150526010	1000-50000 ug/mL, 11/22/15	MeOH	6/2/15, RD	2x1mL
V743	8260 VOC Mix.	Accu Standard	M-502-10X-PAK	21501040	2000 ug/mL, 1/12/18	MeOH	6/9/15, RD	5x1mL
V744	8260 VOC Mix	Ultra Sci.	DWM-588-1	CM-1859	2000 ug/mL, 5/31/18	MeOH	6/18/15, RD	2x1mL
V745	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150526009	1000-50000 ug/mL, 11/22/15	MeOH	7/21/15, RD	2x1mL
V746	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150526010	1000-50000 ug/mL, 11/22/15	MeOH	7/21/15, RD	2x1mL
V747	VOC 8260 Additions	SPEX	VO-CTWI-12	TS150721007	1000-10000 ug/mL, 10/19/15	MeOH	7/23/15, RD	2x1mL
V748	VOC 8260 Additions	SPEX	VO-CTWI-12	TS150721008	1000-10000 ug/mL, 10/19/15	MeOH	7/23/15, RD	2x1mL
V749	8260 VOC Mix	Ultra Sci.	DWM-588-1	CM-3808	2000 ug/mL, 8/31/18	MeOH	8/6/15, RD	2x1mL
V750	VOC 8260 Special Additions	SPEX	VO-CTWI-12	TS150901001	1000-50000 ug/mL, 11/30/15	MeOH	9/1/15, RD	2x1mL
V751	VOC 8260 Special Additions	SPEX	VO-CTWI-12	TS150904001	1000-50000 ug/mL, 12/3/15	MeOH	9/10/15, RD	2x1mL
V752	Fluorobenzene	Ultra Sci	STS-160-1	CL-3264	2000 ug/mL 9/30/18	MeOH	9/25/15 RD	4x1mL
V753	a,a,a-TFT	Ultra Sci	STS-220N-1	CM-5040	2000 ug/mL 10/31/19	MeOH	9/25/15 RD	4x1mL
V754	VOC 8360 Special Addition	SPEX	VO-CTWI-5	BW150925015	1,000-50,000 ug/mL 03/23/16	MeOH	10/02/15 Bms	2x1mL
V755	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150925016	1,000-50,000 ug/mL 03/23/16	MeOH	10/02/15 Bms	2x1mL
V756	12-Dichlorobenzene-d4	Ultra Sci	STS-210-1	CG-1939Z	2000 ug/mL 9/30/18	MeOH	10/6/15 RD	4x1mL
V757	8260 VOC Mix	Ultra Sci	DWM-588-1	CM-3956	2000 ug/mL 8/31/18	MeOH	10/15/15 RD	4x1mL
V758	8260 VOC Mix.	Accustandard	M-502-10X-PAK	21508111	2000 ug/mL 8/25/18	MeOH	11/3/15 RD	5x1mL
V759	PVOC/GRO Mix	RESTEK	30095	A0112470	1,000/10,000 ug/mL 08/31/22	MeOH	11/10/15 Bms	2x1mL
V760	PVOC/GRO Mix	ULTRA	UST-100-1	CK-2547A	1,000/10,000 ug/mL 09/30/17	MeOH	11/10/15 Bms	4x1mL

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If multiple analytes and all of the concentrations vary, mark VARIES.

RD 11/23/15

INORGANIC
CLP FORMS
DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-DUP-1-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	83.2	Lab Sample ID:	856731
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
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

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-DUP-2-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	81.7	Lab Sample ID:	856723
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.7		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB58-11-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	77.3	Lab Sample ID:	856734
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	77.3		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB58-23-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	87.7	Lab Sample ID:	856737
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	87.7		0.1	0.1	0.1	0.1

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB59-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	82.2	Lab Sample ID:	856713
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	82.2		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB59-20-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	81.9	Lab Sample ID:	856716
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.9		0.1	0.1	0.1	0.1

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB60-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	83.3	Lab Sample ID:	856729
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	83.3		0.1	0.1	0.1	0.1

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB60-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	89.4	Lab Sample ID:	856730
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	89.4		0.1	0.1	0.1	0.1

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB61-13-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	81.8	Lab Sample ID:	856727
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.8		0.1	0.1	0.1	0.1

CT LABORATORIES
delivering more than data from your environmental analyses

1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB61-20-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	87.3	Lab Sample ID:	856728
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	87.3		0.1	0.1	0.1	0.1

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB62-10-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	81.7	Lab Sample ID:	856717
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.7		0.1	0.1	0.1	0.1

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB62-16-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	89.7	Lab Sample ID:	856718
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	89.7		0.1	0.1	0.1	0.1

CT LABORATORIES
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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB63-15-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	87.7	Lab Sample ID:	856720
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	87.7		0.1	0.1	0.1	0.1

CT LABORATORIES
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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB63-7-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	79.7	Lab Sample ID:	856719
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	79.7		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB64-13-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	84.0	Lab Sample ID:	856742
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136980	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.0		0.1	0.1	0.1	0.1

CT LABORATORIES
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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB64-18-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	84.4	Lab Sample ID:	856741
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136980	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	84.4		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB65-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	86.4	Lab Sample ID:	856739
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136980	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	86.4		0.1	0.1	0.1	0.1

CT LABORATORIES
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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB65-5-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	83.0	Lab Sample ID:	856740
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136980	Analysis Date/Time	04/19/2017 13:50
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

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB66-12-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	89.5	Lab Sample ID:	856738
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	89.5		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB66-19-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	91.7	Lab Sample ID:	856726
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	91.7		0.1	0.1	0.1	0.1

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INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB67-10-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	83.8	Lab Sample ID:	856722
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	83.8		0.1	0.1	0.1	0.1

CT LABORATORIES
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1

INORGANIC ANALYSIS DATA SHEET

Sample Description

DF-SB67-3-1704

Lab Name:	CT Laboratories	Contract:	TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHA
Matrix (soil/water):	SOIL	SDG No.:	126716
% Solids:	81.8	Lab Sample ID:	856721
Analytical Method:	EPA 8000C	Date Received:	04/19/2017
Dilution Factor:	1.00	TCLP/SPLP Extraction Date/time:	
Analytical Run #:	136979	Analysis Date/Time	04/19/2017 13:50
Analytical Prep Batch #:		Prep. Date/Time:	
ICAL Calibration #:		Concentration Units:	%

CAS #	Analyte	Concentration	Qualifiers	DL	LOD	LOQ	RL
SOLID	Solids, Percent	81.8		0.1	0.1	0.1	0.1

CT LABORATORIES
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DUPLICATES

Sample Description

DF-SB66-12-1704

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHAS

Matrix: SOLID

SDG No.: 126716

% Solid for Sample: 89.5

Concentration Units: %

Analytical Prep Batch # 1

Analytical Preparation Date/Time 0

Analytical Run #: 136979

ICAL Calibration #:

Sample #: 857090

Parent Sample #: 856738

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	04/19/2017	13:50	8	89.5		88.9		1		GRA

CT LABORATORIES
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DUPLICATES

Sample Description

DF-SB64-13-1704

Lab Name: CT Laboratories

Contract: TRINITY ANALYSIS & DEVELOPMENT-DDM DUNN FIELD PHAS

Matrix: SOLID

SDG No.: 126716

% Solid for Sample: 84.0

Concentration Units: %

Analytical Prep Batch # 1

Analytical Preparation Date/Time 0

Analytical Run #: 136980

ICAL Calibration #:

Sample #: 857497

Parent Sample #: 856742

Analysis Type *Initial Analysis*

Analyte	Analysis Date/Tim		RPD Limit	Original Parent Conc. (S)	C	Duplicate Conc. (D)	C	RPD	Q	M
Solids, Percent	04/19/2017	13:50	8	84.0		84.0		0		GRA

INORGANICS
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DOCUMENTS

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TOTAL SOLIDS (PERCENT)

LIMS #: 136979

Start Date:	**04/19/2017**	**Start Time:**	13:50		**Analyst:**	BMM
	Sample ID#	**Dish#**	**Tared Weight g** *(D)*	**Wet Weight g** *(E)*	**Dry Weight g** *(F)*	**RESULTS % TOTAL SOLIDS**
1)	856713	C0130750	2.56	13.58	11.62	82.2%
2)	856716	C0130751	2.58	14.23	12.12	81.9%
3)	856717	C0130752	2.53	13.24	11.28	81.7%
4)	856718	C0130753	2.58	13.10	12.02	89.7%
5)	856719	C0130754	2.56	13.18	11.02	79.7%
6)	856720	C0130755	2.57	13.83	12.45	87.7%
7)	856721	D0081712	2.59	13.40	11.43	81.8%
8)	856722	D0081713	2.55	14.89	12.89	83.8%
9)	856723	D0081714	2.56	13.74	11.69	81.7%
10)	856726	D0081715	2.57	13.42	12.52	91.7%
11)	856727	D0081716	2.58	14.20	12.09	81.8%
12)	856728	D0081717	2.56	13.15	11.80	87.3%
13)	856729	D0081718	2.56	13.55	11.71	83.3%
14)	856730	D0081719	2.54	13.34	12.19	89.4%
15)	856731	D0081720	2.54	13.06	11.29	83.2%
16)	856734	D0081721	2.57	14.22	11.57	77.3%
17)	856735	D0081722	2.56	13.21	10.80	77.4%
18)	856736	D0081723	2.56	14.41	11.75	77.6%
19)	856737	D0081724	2.57	13.32	12.00	87.7%
*20)	856738	D0081725	2.56	14.47	13.22	89.5%
Dup 20)	856738	D0081726	2.55	14.51	13.18	88.9%
Dry Weight = Sample + Dish (gms)				* 2nd Reading,	13.21	
Wet Weight = Sample + Dish (gms)					Set RPD:	0.7%
			Balance: VOB-01			
					*mg Difference	10

Stop Date:	04/20/2017
Stop Time:	09:17

Calculations

*2nd reading must be within 50mg of the 1st

% Total Solids = ((*F-D*)/(*E-D*))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

TOTAL SOLIDS (PERCENT)

LIMS #: 136980

Start Date:	**04/19/2017**	**Start Time:**	13:50		**Analyst:**	BMM
	Sample ID#	**Dish#**	**Tared Weight g** *(D)*	**Wet Weight g** *(E)*	**Dry Weight g** *(F)*	**RESULTS % TOTAL SOLIDS**
1)	856739	D0081727	2.58	13.42	11.95	86.4%
2)	856740	D0081728	2.56	14.18	12.21	83.0%
3)	856741	D0081729	2.57	14.98	13.05	84.4%
4)						0.0%
5)						0.0%
6)						0.0%
7)						0.0%
8)						0.0%
9)						0.0%
10)						0.0%
11)						0.0%
12)						0.0%
13)						0.0%
14)						0.0%
15)						0.0%
16)						0.0%
17)						0.0%
18)						0.0%
19)						0.0%
*20)	856742	D0081730	2.58	13.85	12.05	84.0%
Dup 20)	856742	D0081731	2.59	13.69	11.91	84.0%

Dry Weight = Sample + Dish (gms)		* 2nd Reading,	12.05	
Wet Weight = Sample + Dish (gms)			Set RPD:	0.0%
	Balance: VOB-01			
			*mg Difference	0

Stop Date: 04/20/2017
Stop Time: 09:14

*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
136979 on 04/20/2017

Date Analyzed: 04-19-2017 BMM

Date Entered: 04-20-2017 BMM

Date Reviewed: RED 4/20/2017

Date Validated:

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
126716	856713		04/17/2017 1505		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB59-16-1704									
126716	856716		04/17/2017 1510		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB59-20-1704									
126716	856717		04/18/2017 0945		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB62-10-1704									
126716	856718		04/18/2017 0950		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB62-16-1704									
126716	856719		04/18/2017 1015		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB63-7-1704									
126716	856720		04/18/2017 1020		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB63-15-1704									
126716	856721		04/18/2017 1115		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB67-3-1704									
126716	856722		04/18/2017 1120		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB67-10-1704									
126716	856723		04/18/2017		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-DUP-2-1704									
126716	856726		04/18/2017 1250		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB66-19-1704									
126716	856727		04/17/2017 0910		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB61-13-1704									
126716	856728		04/17/2017 0920		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB61-20-1704									
126716	856729		04/17/2017 1005		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB60-16-1704									
126716	856730		04/17/2017 1010		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-SB60-19-1704									
126716	856731		04/17/2017		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
		DF-DUP-1-1704									

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

WSOLIDS Analytical Run
136979 on 04/20/2017

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
126716	856734		04/17/2017 1320		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	**4**	
		DF-SB58-11-1704		Designated MS/MSD							
126716	856737		04/17/2017 1330		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	**4**	
		DF-SB58-23-1704									
126716	856738		04/18/2017 1300		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	**4**	
		DF-SB66-12-1704									
	857090		04/18/2017 1300				SOLIDS,PERCENT				
		DF-SB66-12-1704		DUP 856738				0			

19 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

WSOLIDS Analytical Run
136980 on 04/20/2017

Date Analyzed: 04-19-2017 BMM

Date Entered: 04-20-2017 BMM

Date Reviewed: RED

Date Validated: 4/20/2017

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
126716	856739	DF-SB65-19-1704	04/18/2017 1320		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
126716	856740	DF-SB65-5-1704	04/18/2017 1335		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
126716	856741	DF-SB64-18-1704	04/18/2017 1405		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
126716	856742	DF-SB64-13-1704	04/18/2017 1420		TRINITY ANALYSIS & DEVELOPMENT	DDM DUNN FIELD PHASE II	SOLIDS,PERCENT		S	4	
	857497	DF-SB64-13-1704	04/18/2017 1420	DUP 856742			SOLIDS,PERCENT	0			

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

FWC26-10 Data Review Checklist

		Method: Percent Solids SW846-8000C	Independent Data Review Checklist		Balance: VOB-01
LIMS Run #(s)	**Analysis Date**	**Analyst / Data Interpreter**	**Independent Reviewer**	**Date of Review**	**Approved? (Yes or No)**
136979, 136980	04/19/2017	BMM	RED	04/20/2017	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.

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		Qualify data prepared after hold time
2. Were samples dried overnight?	> 8hours	Yes		Yes		If No: place samples back into oven for mimium of 8 hours of total dry time.
3. Were drying start and stop times recorded?	---	Yes		Yes		If No: record times and temperatures
4. Were duplicates analyzed at the appropriate frequency?	1 per 20 of similar matrix or at program/project specific frequency	Yes		Yes		If No: reprep samples with appropreate frequency for a duplicate.
5. Were the duplicates within acceptable limits?	Within in-house or program/project specific QC limits	Yes		Yes		If No: reprep and reanalyze samples or qualify parent sample result (Y).
6. Are all samples on the job lists accounted for?	---	Yes		Yes		If No: analyze samples that were were missed.
7. Were nonconformities (if applicable) documented in the NCR spreadsheet?		Yes		Yes		If No: Enter nonformities into the NCR spreadsheet before data review/validation.

CHAIN OF CUSTODY,
PM CONFIRMATION
AND
SAMPLE CONDITION FORMS
DOCUMENTS

Rev. 02/2017

CHAIN OF CUSTODY

Page _____ of _____

Company: Trinity Analysis & Dev. Corp

Project Contact: Todd Calchoun

Telephone: 850-613-6800

Project Name: Dunn Field Phase II

Project #:

Location: Memphis, TN

Sampled By: Tony Schmucker

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder #: 126716
Company: TRINITY ANALYSIS &
Project: DUNN FIELD PHASE 2
Logged By: DRT PM: BM

I:
CRA SDWA NPDES
te Other _____

Report To:
EMAIL: tcalhoun@trinitygpdc.com
Company:
Address:

Invoice To:*
EMAIL: Same
Company:
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

ANALYSES REQUESTED

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	VOCs 8260	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test			
4-17-17	1505	S	Grab		DF-SB59-16-1704	-	X			856713
4-17-17	1510	S	Grab		DF-SB59-20-1704	-	X			856716
4.18.17	0945	S	Grab		DF-SBC2-10-1704	-	X			856717
4-18-17	0950	S	Grab		DF-SB62-16-1704	-	X			856718
4-18-17	1015	S	Grab		DF-SB63-7-1704	-	X			856719
4-18-17	1020	S	Grab		DF-SB63-15-1704	-	X			856720
4-18-17	1115	S	Grab		DF-SB67-3-1704	-	X			856721
4-18-17	1120	S	Grab		DF-SB67-10-1704	-	X			856722
4-18-17	—	S	Grab		DF-Dup-2-1704	-	X			856723
4-18-17	0945	W	Grab		DF-TB-2-1704	-	X			856724
4-18-17	1210	W	Grab		DF-RB-2-1704	-	X			856725
4-18-17	1250	S	Grab		DF-SB66-19-1704	-	X			856726

Relinquished By:	Date/Time 4-18-17 1730	Received By:	Date/Time 4/19/17 1045
Received by:	Date/Time	Received for Laboratory by:	Date/Time 4/19/17 1153

Lab Use Only
Ice Present (Yes) No
Temp 2.2 IR Gun 15
Cooler # 5407, 5501

Rev. 02/2017

CHAIN OF CUSTODY

Page _____ of _____

Company: Trinity Analysis + Dev Corp.
Project Contact: Todd Calhoun
Telephone: 850-613-2602
Project Name: Dunn Field Phase II
Project #:
Location: Memphis TN
Sampled By: Tony Schmucker

CT LABORATORIES
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder #: 126716
Company: TRINITY ANALYSIS &
Project: DUNN FIELD PHASE 2
Logged By: DRT PM BM

CRA SDWA NPDES
e Other _____

Report To:
EMAIL: tcalhoun@trinityade.com
Company:
Address:

Invoice To:*
EMAIL: tcalhoun@trinityade.com
Company:
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	ANALYSES REQUESTED: VOCs 8260	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test			
4-17-17	0910	S	Grab		DF-SB61-13-1704	—	X			856727
4-17-17	0920	S	Grab		DF-SB61-20-1704	—	X			856728
4-17-17	1005	S	Grab		DF-SB60-16-1704	—	X			856729
~~4-17-17~~	~~1010~~	~~S~~	~~Grab~~		~~DF-SB60-20-1704 TS~~	~~—~~				~~856730~~
4-17-17	1010	S	Grab		DF-SB60-19-1704	—	X			856730
4-17-17	—	S	Grab		DF-Dup-1-1704	—	X			856731
4-17-17	0910	W	Grab		DF-TB-1-1704	—	X			856732
4-17-17	1120	W	Grab		DF-RB-1-1704	—	X			856733
4-17-17	1320	S	Grab		DF-SB58-11-1704	—	X			856734
4-17-17	1320	S	Grab		DF-SB58-11 1704	—	X		856734	~~856735~~
4-17-17	1320	S	Grab		DF-SB58-11-1704	—	X		856734	~~856736~~
4-17-17	1330	S	Grab		DF-SB58-23-1704	—	X			856737

24/40/17 Bms

Relinquished By:	Date/Time	Received By:	Date/Time	Lab Use Only
	4-18-17 1730		4/19/17 1045	Ice Present (Yes) No
Received by:	Date/Time	Received for Laboratory by:	Date/Time	Temp 2.2 IR Gun 15
			4/19/17 1153	Cooler # 5407, 5801

Rev. 02/2017

CHAIN OF CUSTODY

Page _____ of _____

Company: Trinity Analysis + DevCorp
Project Contact: Todd Calhoun
Telephone: 850-613-6800
Project Name: Dunn Field Phase II
Project #:
Location: Memphis, TN
Sampled By: Tony Schmucker

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:
12676

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: tcalhoun@trinityadc.com
Company:
Address:

Invoice To:*
EMAIL: Same
Company:
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	ANALYSES REQUESTED: VOCs-8260	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test			
4-18-17	1300	S	Grab		DF-SB66-12-1704	–	X			856738
4-18-17	1320	S	Grab		DF-SB65-19-1704	–	X			856739
4-18-17	1335	S	Grab		DF-SB65-5-1704	–	X			856740
4-18-17	1405	S	Grab		DF-SB64-18-1704	–	X			856741
4-18-17	1420	S	Grab		DF-SB64-13-1704	–	X			856742

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] 4-18-17	4-18-17 1730	[signature]	4/19/17 1045
Received by:	Date/Time	Received for Laboratory by:	Date/Time
		[signature]	4/19/17 1153

Lab Use Only
Ice Present (Yes) No
Temp 1.3 IR Gun 15
Cooler # 5407, 5501

Cooler Receipt Form

Ice Present (YES) NO

Temperature 2.2

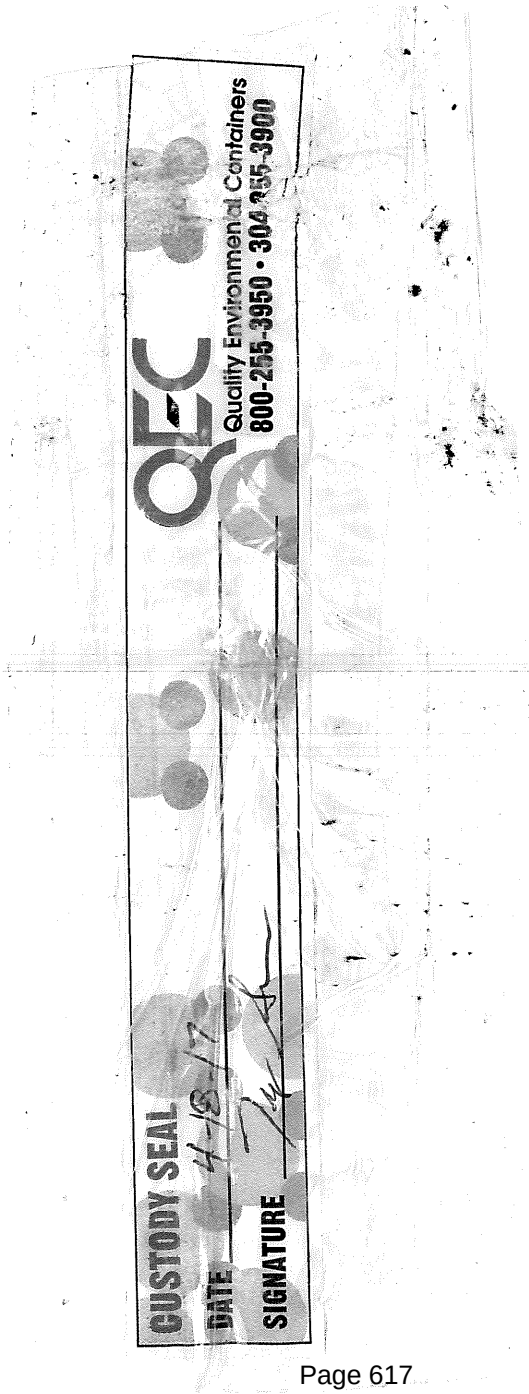
IR Gun # 15

Initials [illegible]

Date 4/19/17 Time 1045

Cooler #: 5501





Cooler Receipt Form

Ice Present (YES) NO

Temperature 1.3

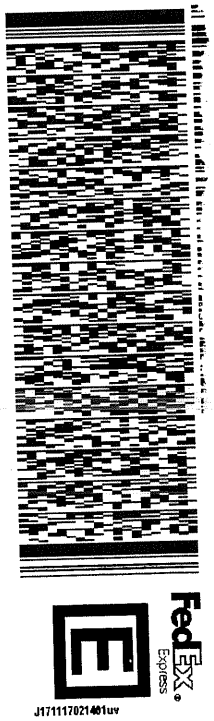
IR Gun # 16

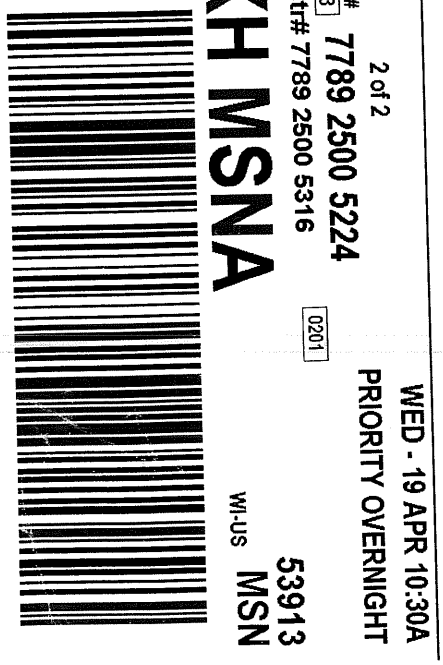
Initials [illegible]

Date 4/19/17 Time 1050

Cooler #: 5407







Folder #: 126716

PM LOGIN CONFIRMATION

Contract #: 3046

Company: TRINITY ANALYSIS & DEVELOPMENT **Project:** DDM DUNN FIELD PHASE II **Proj #:**

Project Phase: MEMPHIS, TN **PO Number:** 5003 **Invoice #:** 127263

Project Manager: *BMS* **Date Received:** 04/19/17 **Log Date:** 04/19/2017

Report To: TODD CALHOUN CC:
1002 N EGLIN PARKWAY

SHALIMAR, FL 32579
Phone: : Fax:
Rep. E-Mail tcalhoun@trinityadc.com

Invoice To :ACCOUNTS PAYABLE CC:
1002 N EGLIN PARKWAY

SHALIMAR, FL 32579
Phone: Fax:
EMail:

Collected By: TONY SCHMACKER
Collector's Phone:

Arrival Temperature: 2.2 oC

SAMPLE #: 856713 DESCR: DF-SB59-16-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 04/17/2017 Time: 1505**

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)				05/01/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/01/2017	05/01/2017		NeedPrep

SAMPLE #: 856716 DESCR: DF-SB59-20-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 04/17/2017 Time: 1510**

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)				05/01/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/01/2017	05/01/2017		NeedPrep

SAMPLE #: 856717 DESCR: DF-SB62-10-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 04/18/2017 Time: 0945**

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS

Folder #: 126716 **Company:** *TRINITY ANALYSIS & DEVELOPMENT* **Project:** DDM DUNN FIELD PHASE II

SAMPLE #: 856717 **DESCR:** DF-SB62-10-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 0945

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

SAMPLE #: 856718 **DESCR:** DF-SB62-16-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 0950

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

SAMPLE #: 856719 **DESCR:** DF-SB63-7-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 1015

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

SAMPLE #: 856720 **DESCR:** DF-SB63-15-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 1020

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

SAMPLE #: 856721 **DESCR:** DF-SB67-3-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 1115

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

Folder #: 126716 **Company:** *TRINITY ANALYSIS & DEVELOPMENT* **Project:** DDM DUNN FIELD PHASE II

SAMPLE #: 856722 **DESCR:** DF-SB67-10-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 1120

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

SAMPLE #: 856723 **DESCR:** DF-DUP-2-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

SAMPLE #: 856724 **DESCR:** DF-TB-2-1704 **PRIMARY / DETAILED MATRIX:** AQUEOUS / TRIP BLANK **SAMPLED:** 04/18/2017 **Time:** 0945

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		Logged

SAMPLE #: 856725 **DESCR:** DF-RB-2-1704 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 04/18/2017 **Time:** 1210

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		Logged

SAMPLE #: 856726 **DESCR:** DF-SB66-19-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 1250

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

Folder #: 126716 **Company:** *TRINITY ANALYSIS & DEVELOPMENT* **Project:** DDM DUNN FIELD PHASE II

SAMPLE #: 856727 **DESCR:** DF-SB61-13-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/17/2017 **Time:** 0910

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)				05/01/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/01/2017	05/01/2017		NeedPrep

SAMPLE #: 856728 **DESCR:** DF-SB61-20-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/17/2017 **Time:** 0920

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)				05/01/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/01/2017	05/01/2017		NeedPrep

SAMPLE #: 856729 **DESCR:** DF-SB60-16-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/17/2017 **Time:** 1005

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)				05/01/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/01/2017	05/01/2017		NeedPrep

SAMPLE #: 856730 **DESCR:** DF-SB60-19-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/17/2017 **Time:** 1010

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)				05/01/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/01/2017	05/01/2017		NeedPrep

SAMPLE #: 856731 **DESCR:** DF-DUP-1-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/17/2017

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)				05/01/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/01/2017	05/01/2017		NeedPrep

Folder #: 126716 **Company:** *TRINITY ANALYSIS & DEVELOPMENT* **Project:** DDM DUNN FIELD PHASE II

SAMPLE #: 856732 **DESCR:** DF-TB-1-1704 **PRIMARY / DETAILED MATRIX:** AQUEOUS / TRIP BLANK **SAMPLED:** 04/17/2017 **Time:** 0910

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/01/2017	05/01/2017		Logged

SAMPLE #: 856733 **DESCR:** DF-RB-1-1704 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 04/17/2017 **Time:** 1120

CLIENT SAMPLE #: **DETAILED SITE/POINT ID INFORMATION:**

TEST#	TEST	TEST METHOD	ANALYTE	TEST GROUP	SPECIAL REQUIREMENTS	HOLD DATE	ANALYSIS DUE	RUSH	STATUS
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/01/2017	05/01/2017		Logged

SAMPLE #: 856734 **DESCR:** DF-SB58-11-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/17/2017 **Time:** 1320

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***	05/01/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			***Y DESIGNATED MATRIX SPIKE***	05/01/2017	05/01/2017		NeedPrep

SAMPLE #: 856737 **DESCR:** DF-SB58-23-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/17/2017 **Time:** 1330

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)				05/01/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/01/2017	05/01/2017		NeedPrep

SAMPLE #: 856738 **DESCR:** DF-SB66-12-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 1300

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

Folder #: 126716 **Company:** *TRINITY ANALYSIS & DEVELOPMENT* **Project:** DDM DUNN FIELD PHASE II

SAMPLE #: 856739 **DESCR:** DF-SB65-19-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 1320

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

SAMPLE #: 856740 **DESCR:** DF-SB65-5-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 1335

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

SAMPLE #: 856741 **DESCR:** DF-SB64-18-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 1405

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

SAMPLE #: 856742 **DESCR:** DF-SB64-13-1704 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 04/18/2017 **Time:** 1420

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)				05/02/2017	05/01/2017		Logged
1222	VOC 8260 QSM LL 5.0	(EPA 8260C)			*Y*	05/02/2017	05/01/2017		NeedPrep

Folder #: 126716 **Company:** *TRINITY ANALYSIS & DEVELOPMENT* **Project:** DDM DUNN FIELD PHASE II

Invoice Number: 127263 **Preliminary Invoice Estimate:** $ 1,768.00

Item	Matrix	Quantity	Price	Expedited TAT Surcharge	Total
SOLIDS,PERCENT	SOIL	22	$ 0.00	0.00	$ 0.00
VOC 8260 QSM LL 5.0	GROUND WATER	2	$ 68.00	0.00	$ 136.00
VOC 8260 QSM LL 5.0	SOIL	22	$ 68.00	0.00	$ 1496.00
VOC 8260 QSM LL 5.0	TRIP BLANK	2	$ 68.00	0.00	$ 136.00
Temporary Fuel Surcharge on lab supplies and services (if applicable):					$ 0.00

Bottle Information

Container	# Containers	Tests
SOLIDS	**26**	%SOL
TERRA CORE KIT	**72**	VOC
TERRA CORE LL	**6**	VOC
VOA HCL	**13**	VOC

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Condition Report

Folder #: 126716
Client: TRINITY ANALYSIS & DEVELOPMENT

Print Date / Time: 04/19/2017 12:43
Received Date / Time / By: 04/19/2017 10:45 DRT

Project Name: DDM DUNN FIELD PHASE II
Project Phase: MEMPHIS, TN

Log-In Date / Time / By: 04/19/2017 DRT
Project #: PM: BMS

Coolers: 5407,5501
Custody Seals Present : **Y**

Temperature: 2.2 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: SIGNED & DATED
Tracking Number: 778925005316/778925005224
Temp Blank Enclosed? **Y**

Notes: THE SAMPLES WERE RECEIVED IN GOOD CONDITION ON ICE.

ONE CUSTODY SEAL WAS PRESENT AND INTACT ON EACH COOLER UPON RECEIPT - ALL WERE DATED 4-18-17 AND SIGNED.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856713 DF-SB59-16-1704				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) = 1**		
856713 DF-SB59-16-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE KIT*) = 3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856716 DF-SB59-20-1704				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) = 1**		
856716 DF-SB59-20-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE KIT*) = 3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856717 DF-SB62-10-1704				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) = 1**		
856717 DF-SB62-10-1704				

TERRA CORE KIT	1	/		VOC
TERRA CORE KIT	1	/		VOC
TERRA CORE KIT	1	/		VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856718 DF-SB62-16-1704				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856718 DF-SB62-16-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856719 DF-SB63-7-1704				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856719 DF-SB63-7-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856720 DF-SB63-15-1704				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856720 DF-SB63-15-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856721 DF-SB67-3-1704				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856721 DF-SB67-3-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856722 DF-SB67-10-1704				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) = 1**		
856722 DF-SB67-10-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE KIT*) = 3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856723 DF-DUP-2-1704				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) = 1**		
856723 DF-DUP-2-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE KIT*) = 3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856724 DF-TB-2-1704				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type	**(*VOA HCL*) = 3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856725 DF-RB-2-1704				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type	**(*VOA HCL*) = 3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856726 DF-SB66-19-1704				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type	**(*SOLIDS*) = 1**		
856726 DF-SB66-19-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type	**(*TERRA CORE KIT*) = 3**		

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

856727 DF-SB61-13-1704

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

856727 DF-SB61-13-1704

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

856728 DF-SB61-20-1704

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

856728 DF-SB61-20-1704

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

856729 DF-SB60-16-1704

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

856729 DF-SB60-16-1704

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

856730 DF-SB60-19-1704

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

856730 DF-SB60-19-1704

TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC
TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

856731 DF-DUP-1-1704

SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856731 DF-DUP-1-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type		**(*TERRA CORE KIT*) = 3**	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856732 DF-TB-1-1704				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		**(*VOA HCL*) = 3**	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856733 DF-RB-1-1704				
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	VOA HCL	1	/	VOC
	Total # of Containers of Type		**(*VOA HCL*) = 4**	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856734 DF-SB58-11-1704				
	SOLIDS	1	/	%SOL
	SOLIDS	1	/	%sol
	SOLIDS	1	/	%sol
	Total # of Containers of Type		**(*SOLIDS*) = 3**	
856734 DF-SB58-11-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	Total # of Containers of Type		**(*TERRA CORE KIT*) = 3**	
856734 DF-SB58-11-1704				
	TERRA CORE LL	1	/	VOC
	TERRA CORE LL	1	/	VOC
	TERRA CORE LL	1	/	VOC
	TERRA CORE LL	1	/	VOC
	TERRA CORE LL	1	/	VOC
	TERRA CORE LL	1	/	VOC
	Total # of Containers of Type		**(*TERRA CORE LL*) = 6**	

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856737 DF-SB58-23-1704				
	SOLIDS	1	/	%SOL
	Total # of Containers of Type		**(*SOLIDS*) = 1**	
856737 DF-SB58-23-1704				
	TERRA CORE KIT	1	/	VOC

126716

TERRA CORE KIT	1	/		VOC
TERRA CORE KIT	1	/		VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856738 DF-SB66-12-1704				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856738 DF-SB66-12-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856739 DF-SB65-19-1704				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856739 DF-SB65-19-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856740 DF-SB65-5-1704				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856740 DF-SB65-5-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856741 DF-SB64-18-1704				
	SOLIDS	1	/	%SOL

Total # of Containers of Type (*SOLIDS*) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
856741 DF-SB64-18-1704				
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC
	TERRA CORE KIT	1	/	VOC

Total # of Containers of Type (*TERRA CORE KIT*) = 3

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests

856742	DF-SB64-13-1704				
		SOLIDS	1	/	%SOL
		Total # of Containers of Type		**(*SOLIDS*) = 1**	

856742	DF-SB64-13-1704				
		TERRA CORE KIT	1	/	VOC
		TERRA CORE KIT	1	/	VOC
		TERRA CORE KIT	1	/	VOC
		Total # of Containers of Type		**(*TERRA CORE KIT*) = 3**	

Condition Code	*Condition Description*
1	Sample Received OK

Appendix F Data Validation Report

DATA VALIDATION REPORT
VOLATILE ORGANIC COMPOUNDS

Project Name:	DDM Dunn Field Phase II; Memphis, TN
Contractor:	Trinity Analysis & Development
Project Number:	W9128F-11-D-0029, TO CK01
Laboratory:	CT Laboratories
Sample Delivery Group:	125865
Analysis:	Volatile Organic Compounds by Method SW8260B
EPA QC Level:	Level IV

Field ID	Laboratory ID	Matrix	Analysis
DF-SB47-18-1703	840394	Soil	Volatile Organic Compounds
DF-SB38-15-1703	840395	Soil	Volatile Organic Compounds
DF-SB44-11-1703	840396	Soil	Volatile Organic Compounds
DF-SB37-11-1703	840397	Soil	Volatile Organic Compounds
RB-01	840398	Water	Volatile Organic Compounds
DF-SB22-19-1703	840399	Soil	Volatile Organic Compounds
DF-SB23-16-1703	840400	Soil	Volatile Organic Compounds
DF-SB24-17-1703	840401	Soil	Volatile Organic Compounds
DF-SB25-5-1703	840402	Soil	Volatile Organic Compounds
DF-SB26-10-1703	840403	Soil	Volatile Organic Compounds
DF-SB14-19-1703	840404	Soil	Volatile Organic Compounds
DF-SB01-12-1703	840405	Soil	Volatile Organic Compounds
DF-SB08-17-1703	840406	Soil	Volatile Organic Compounds
DF-SB10-9-1703	840407	Soil	Volatile Organic Compounds
DF-FD-01	840408	Soil	Volatile Organic Compounds
DF-SB11-10-1703	840409	Soil	Volatile Organic Compounds
DF-SB04-10-1703	840410	Soil	Volatile Organic Compounds
DF-SB05-18-1703	840413	Soil	Volatile Organic Compounds
TB-01	840414	Water	Volatile Organic Compounds
TB-02	840415	Water	Volatile Organic Compounds
RB-02	840416	Water	Volatile Organic Compounds

INTRODUCTION

This validation report assesses the analytical data quality of the analyses listed on the preceding cover page. Samples were analyzed for volatile organic compounds in accordance with *USEPA Method SW8260B*. The review criteria employed in the generation of this report is based on the QC requirements contained in the analytical method and the *Uniform Federal Policy-Quality Assurance Project Plan Membrane Interface Probe Survey Work Plan,* revised December 2016. The review procedure is consistent with *USEPA CLP National Functional Guidelines for Organic Data Review,* 2008 revision, to the extent possible. In cases where two qualifiers are listed as an action, such as "J/UJ", the first qualifier applies to positive results, and the second to non-detect results. In areas where definitive guidance is not provided in either *Functional Guidelines* or the *QAPjP*, data has been evaluated in a conservative manner using professional judgment.

I. HOLDING TIMES

Objective: The validity of results is ascertained based on the holding time of the sample from time of collection to time of sample extraction and analysis.

Evaluation: Holding times were determined by comparing the sampling date on the chain of custody records with the dates of analysis found on the analytical raw data and summary forms.

Samples were received properly preserved. The chain of custody records were complete and in agreement with the laboratory sample lists. All holding times were met.

Action: No qualifiers have been applied.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Objective: GC/MS instrument performance checks are performed to ensure mass resolution, identification, and to some degree, sensitivity. These criteria are not sample specific. Conformance is determined using standard materials; therefore, these criteria should be met in all circumstances.

Evaluation: Instrument performance checks were performed for each 12 hour period in which samples were analyzed. Mass assignments and ion abundances were consistent between the summary forms and the raw data. Calculations were performed on a representative cross section of the data and no discrepancies were found.

Action: No qualifiers have been applied.

III. INITIAL CALIBRATION

Objective: Compliance requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data for compounds on the Target Compound List (TCL). Initial calibration demonstrates that the instrument is capable of acceptable performance and of producing a linear calibration curve.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts, and recalculations were performed to verify the reported results.

Initial calibrations were performed in accordance with the method. All RRFs and RSD values were within control limits. No calculation or transcription errors were observed.

Methylene Chloride and Vinyl Acetate (ICV) were noted as outside control limits in the laboratory case narrative; however, these are not compounds of interest as well as the Iodomethane and toluene detected in the Initial Calibration Blank (ICB).

Action: No qualifiers have been applied.

IV. CONTINUING CALIBRATION

Objective: Compliance requirements for satisfactory continuing calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data for target compounds at the beginning of the analytical sequence. The continuing calibration demonstrates satisfactory performance of the instrument on a day-to-day basis.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts, and recalculations were performed to verify the reported results.

Continuing calibrations were performed in accordance with the method. All %D values were within control limits. No calculation or transcription errors were observed.

Action: No qualifiers have been applied.

V. BLANKS

Objective: The purpose of laboratory and field blanks is to determine the existence and magnitude of contamination problems resulting from laboratory and field activities. The criteria for evaluation of blanks apply to any blank associated with the samples (e.g., method blanks, instrument blanks, trip blanks, and equipment blanks). If problems exist with any blank, all associated data must be carefully evaluated to determine whether or not there is an inherent variability in the data, or if the problem is an isolated occurrence not affecting other data.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts.

Method and field blank analyses were performed appropriately for this SDG. Summary forms and corresponding raw data were reviewed for all blanks.

Chloromethane was noted as outside control limits in the laboratory case narrative; however, this compound is not of interest.

Action: No qualifiers have been applied.

VI. SURROGATE SPIKES

Objective: Method performance for individual samples is demonstrated through spiking activities. All samples are spiked with surrogate compounds prior to sample preparation. The sample itself may produce effects due to such factors as interferences and high concentrations of analytes.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts, and recalculations were performed to verify the reported results.

Surrogate recoveries were within project control limits. No calculation or transcription errors were observed.

Action: No qualifiers have been applied.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Objective: Data for matrix spikes/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. These data alone cannot be used to evaluate the precision and accuracy of individual samples. However, when exercising professional judgment, MS/MSD data can be used in conjunction with other available QC information.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts, and recalculations were performed to verify the reported results.

Matrix spikes and matrix spike duplicates were analyzed at the appropriate frequency. No calculation or transcription errors were observed.

Methylene Chloride, Styrene, and Vinyl Acetate were noted as outside control limits in the laboratory case narrative; however, these are not compounds of interest.

Action: No qualifiers have been applied.

VIII. LABORATORY CONTROL SAMPLES

Objective: Data for laboratory control samples are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts, and recalculations were performed to verify the reported results.

Laboratory control samples were analyzed at the appropriate frequency. All recoveries were within control limits, and no calculation or transcription errors were observed.

1,2,3-trichloropropane was noted as outside control limits in the laboratory case narrative; however, this compound is not of interest.

Action: No qualifiers have been applied.

IX. FIELD DUPLICATES

Objective: Field Duplicate analyses are performed in order to assess field sampling precision for each sample matrix.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts.

Action: No qualifiers have been applied.

X. INTERNAL STANDARDS

Objective: Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during every analytical run sequence.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts.

All internal standard area counts and retention times were within the established control limits, and no transcription errors were observed.

Action: No qualifiers have been applied.

XI. TARGET COMPOUND IDENTIFICATION

Objective: Qualitative criteria for compound identification have been established to minimize the number of erroneous identifications of compounds, either false positives or false negatives.

Evaluation: Quantitation reports and chromatograms were examined to verify that all peaks were reported as either targets, surrogates, internal standards, or tentatively identified compounds (TICs).

Target compound retention times were compared to the daily standard and were found to be acceptable. The mass spectra of each reported compound matched the corresponding standard spectra within the specified criteria. No calculation or transcription errors were observed.

Action: No qualifiers have been applied.

XII. COMPOUND QUANTITATION AND REPORTED CRQLS

Objective: Careful evaluation is required to ensure that the reported quantitation results and contract required quantitation limits (CRQLs) for target compounds are accurate.

Evaluation: Quantitation reports, chromatograms, and sample preparation sheets were examined for all samples to verify the reported results and quantitation limits. Recalculations were performed to verify reported results.

No calculation errors or other discrepancies were found. The correct internal standards, quantitation ions, and RRFs were used for compound quantitation.

Action: No qualifiers have been applied.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

Objective: Chromatographic peaks that are not target analytes, surrogates, or internal standards are potential tentatively identified compounds (TICs). TICs must be qualitatively identified by a National Institute of Standards and Testing (NIST) mass spectral library search and the identifications assessed by the data reviewer.

Evaluation: No TICs were reported in this SDG.

Action: No qualifiers have been applied.

XIV. SYSTEM PERFORMANCE

Objective: During the period following the initial instrument performance checks, changes may occur in the system that degrade the quality of the data. While this degradation would not be directly shown until the next required series of instrument performance checks, a thorough review of the ongoing data acquisition can yield indications of instrument performance.

Evaluation: No chromatographic retention time shifts, changes in resolution, or other indicators of performance degradation were observed throughout any of the analytical sequences.

Action: No qualifiers have been applied.

OVERALL DATA ASSESSMENT

Out of control events experienced by the laboratory have not warranted the qualification of any results in this data set. The deficiencies described in this report are not considered cause for concern with regard to the laboratory's ability to identify and quantify the required target analytes. Based on the information evaluated, the overall quality of the data appears to be good.

GC/MS VALIDATION WORKSHEET
SAMPLE RECEIPT AND HOLDING TIMES
EPA Level IV

SDG #: 125865
Lab: CT Laboratories
Client: Trinity Analysis & Development
Method: SW8260B

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Were all technical holding times met? **Yes**
Were all method holding times met? **Yes**
Were all samples received in good condition? **Yes**
If No, describe in Comment section.

					Extraction				Analysis			
Field ID	Date Sampled	Date Received	Pres Y/N	Temp OK?	Date Extracted	Applicable Hold	Last Day of Hold	Days Out of Hold	Date Analyzed	Applicable Hold	Last Day of Hold	Days Out of Hold
DF-SB47-18-1703	03/08/17	03/10/17	Yes	Yes					3/14/17	14 days	3/22/17	0
DF-SB38-15-1703	03/08/17	03/10/17	Yes	Yes					3/14/17	14 days	3/22/17	0
DF-SB44-11-1703	03/08/17	03/10/17	Yes	Yes					3/14/17	14 days	3/22/17	0
DF-SB37-11-1703	03/08/17	03/10/17	Yes	Yes					3/14/17	14 days	3/22/17	0
RB-01	03/08/17	03/10/17	Yes	Yes					3/17/17	14 days	3/22/17	0
DF-SB22-19-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-SB23-16-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-SB24-17-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-SB25-5-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-SB26-10-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-SB14-19-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-SB01-12-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-SB08-17-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-SB10-9-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-FD-01	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-SB11-10-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-SB04-10-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
DF-SB05-18-1703	03/09/17	03/10/17	Yes	Yes					3/14/17	14 days	3/23/17	0
TB-01	03/08/17	03/10/17	Yes	Yes					3/17/17	14 days	3/22/17	0
TB-02	03/09/17	03/10/17	Yes	Yes					3/17/17	14 days	3/23/17	0
RB-02	03/09/17	03/10/17	Yes	Yes					3/17/17	14 days	3/23/17	0

Comments:
Samples received at 1.7, 2.6 deg C.

GC/MS VALIDATION WORKSHEET
EPA Level IV

SDG #: 125865
Lab: CT Laboratories
Client: Trinity Analysis & Development

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Method: SW8260B

List all validated samples below, including matrix spikes and duplicates.

	Field ID	Laboratory ID	Matrix	Type †		Field ID	Laboratory ID	Matrix	Type †
1	DF-SB47-18-1703	840394	Soil	N	11	DF-SB14-19-1703	840404	Soil	N
2	DF-SB38-15-1703	840395	Soil	N	12	DF-SB01-12-1703	840405	Soil	N
3	DF-SB44-11-1703	840396	Soil	N	13	DF-SB08-17-1703	840406	Soil	N
4	DF-SB37-11-1703	840397	Soil	N	14	DF-SB10-9-1703	840407	Soil	N
5	RB-01	840398	Water	RB	15	DF-FD-01	840408	Soil	FD
6	DF-SB22-19-1703	840399	Soil	N	16	DF-SB11-10-1703	840409	Soil	N
7	DF-SB23-16-1703	840400	Soil	N	17	DF-SB04-10-1703	840410	Soil	N
8	DF-SB24-17-1703	840401	Soil	N	18	DF-SB05-18-1703	840413	Soil	N
9	DF-SB25-5-1703	840402	Soil	N	19	TB-01	840414	TB	TB
10	DF-SB26-10-1703	840403	Soil	N	20	TB-02	840415	TB	TB
					21	RB-02	840416	Water	RB

† N = Normal Environmental Sample EB = Equipment Blank AB = Ambient Blank
TB = Trip Blank FD = Field Duplicate

The samples identified above were evaluated for each of the following validation requirements. Validation findings are noted in the associated worksheets.

No.	Validation Requirements	Note ‡	Comments
I.	Technical Holding Times/Sample Receipt	A	
II.	Instrument Performance	A	
III.	Initial Calibration	A	
IV.	Continuing Calibration	A	
V.	Blanks	A	
VI.	Surrogate Spikes	A	
VII.	Matrix Spikes/Matrix Spike Duplicates	A	
VIII.	Laboratory Control Samples	A	
IX.	Internal Standards	A	
X.	Target Compound Identification	A	
XI.	Compound Quantitation and Reported CRQLs	A	
XII.	System Performance	A	

‡ A = Acceptable N = Not provided/applicable SW = See worksheet

Comments:

GC/MS VALIDATION WORKSHEET
INSTRUMENT PERFORMANCE CHECK
EPA Level IV

SDG #: 125865 | Date: 5/17/17
Lab: CT Laboratories | Page: 1 of 1
Client: Trinity Analysis & Development | Validated by: GG
Second Review by: EM

Method: SW8260B

Were all standards, blanks and samples analyzed within 12 hours of the injection of the tuning compound?	**Yes**
Were all relative abundance ratios within criteria?	**Yes**
Was acceptable spectra generated and provided for each tune?	**Yes**
Were all summary forms in agreement with raw data?	**Yes**
Were recalculations performed on a representative sample of the results?	**Yes**

List any QC element which did not meet the specified criteria below, and describe reasons for qualification in Comment section.

Field ID	Time and Date of Analysis	Tune Injection Time	Action

CALCULATIONS

Tune ID: LS031317, BFB VMS4 p 205
Recalculated Ion Ratio: 174 : 95
Reported Ratio: 87.50%

$$\text{Relative Abundance (Ion Ratio)} = \frac{\text{Response of Target Mass}}{\text{Response of Reference Mass}} \times 100$$

Target Mass Response = 21995
Reference Mass Response = 25125

Relative Abundance = 87.54% Matches

Comments:

GC/MS VALIDATION WORKSHEET
INITIAL CALIBRATION
EPA Level IV

SDG #:	125865	Date:	5/17/17
Lab:	CT Laboratories	Page:	1 of 1
Client:	Trinity Analysis & Development	Validated by:	GG
		Second Review by:	EM

Method: SW8260B

Were all standards analyzed at the appropriate concentrations?	**Yes**
Were all samples associated with an acceptable initial calibration?	**Yes**
Were RRF values >/= 0.3 for SPCC (0.1 for bromoform, chloromethane, 1,1-DCA)?	**Yes**
Were all %RSD values ≤ 30.0?	**Yes**
Were recalculations performed on a representative sample of the RRFs?	**Yes**
Were recalculations performed on a representative sample of the %RSDs?	**Yes**

List any samples which did not meet the specified criteria below, and describe reasons for qualification in Comment section.

Date	Compound	%RSD/RRF	Criteria	Action	Associated Samples

CALCULATIONS

RRF Standard ID: VMS4 CALIB. PT. 4
Compound ID: Toluene
Reported Result: 0.4970

RRF = Compound Area X I.S. Conc. / I.S. Area X Compound Conc.

Compound Area = 279235
I.S. Area = 1123993
Compound Conc. = 0.010
I.S. Conc. = 0.020

RRF = 0.4969
Matches

Calibration ID: VMS4 3/15/17 p 234-235
Compound ID: Toluene
%RSD: 11.6%
Average RRF = 0.511

%RSD = Standard Deviation / Average RRF X 100

RF Level 1 = 0.6410
RF Level 2 = 0.5490
RF Level 3 = 0.4980
RF Level 4 = 0.4970
RF Level 5 = 0.4930
RF Level 6 = 0.4830
RF Level 7 = 0.4570
RF Level 8 = 0.4680
RF Level 9 =

Standard Deviation = 0.059
Average RRF = 0.5108 Matches
%RSD = 11.6 Matches

Comments:

GC/MS VALIDATION WORKSHEET
CONTINUING CALIBRATION
EPA Level IV

SDG #:	125865	Date:	5/17/17
Lab:	CT Laboratories	Page:	1 of 1
Client:	Trinity Analysis & Development	Validated by:	GG
		Second Review by:	EM
Method:	SW8260B		

Were all samples associated with an acceptable continuing calibration?	**Yes**
Were RRF values >/= 0.3 for SPCC (0.1 for bromoform, chloromethane, 1,1-DCA)?	**Yes**
Were all %D values ≤ 20%?	**Yes**
Were recalculations performed on a representative sample of the RRFs?	**Yes**
Were recalculations performed on a representative sample of the %Ds?	**Yes**

List any samples which did not meet the specified criteria below, and describe reasons for qualification in Comment section. **Include +/- notation to denote bias of %D outliers.**

Date	Compound	RRF/%D	Criteria	Action	Associated Samples
3-14-2017 ICV	Methylene Chloride	22.23	<20 %D	NA	840408, 840405, 840410, 840413,
LS031317	Vinyl Acetate	21.8	<20 %D	NA	840406, 840407, 840409, 840404,
					840399, 840400, 8404001, 840402,
					840403, 840397, 840395, 840396, 840394

CALCULATIONS

RRF Standard ID:	135664,CCV,	%D Standard ID:	135664,CCV,	p 350
Compound ID:	Toluene	Compound ID:	Toluene	
Reported Result:	0.5482	Reported %D:	-7.34%	

$$\text{CCV RRF} = \frac{\text{Compound Area X I.S. Conc.}}{\text{I.S. Area X Compound Conc.}}$$

$$\%D = \frac{\text{Average RRF - CCV RRF}}{\text{Average RRF}} \times 100$$

Compound Area =	324704	Average RRF =	0.5107
I.S. Area =	1184707	CCV RRF =	0.5482
Compound Conc. =	0.01		
I.S. Conc. =	0.02	%D =	-7.3 Matches

CCV RRF = 0.5482 Matches %D Indicating Bias = 7.3

Comments:
%D within project limits

GC/MS VALIDATION WORKSHEET
BLANKS
EPA Level IV

SDG #:	125865	Date:	5/17/17
Lab:	CT Laboratories	Page:	1 of 1
Client:	Trinity Analysis & Development	Validated by:	GG
		Second Review by:	EM
Method:	SW8260B		

Was a blank analyzed for each extraction batch?	**Yes**
Was a storage blank analyzed on each day of analysis?	**NA**
(SVOA) Was a blank analyzed for each GC/MS system?	**NA**
(VOA) Was a blank analyzed for each 12 hour period?	**Yes**
Were all field blanks analyzed appropriately?	**Yes**
(VOA) Were all trip blanks analyzed appropriately	**Yes**
Were all blanks free of contamination at or above the MDL/CRQL?	**Yes**

Record any contaminants (target or non-target) which were detected in the blanks.

Blank	Blank Type	Compound	Conc. (ug/L)	CRQL (ug/L)	Action Level	Action	Associated Samples
	MB	Chloromethane				NA	

Action Level = 10 X Blank concentration (common contaminants-methylene chloride, acetone, 2-butanone, phthalates)
5 X Blank concentration (all other TCL compounds)

Comments:

TB and EB nondetect for all compounds.

GC/MS VALIDATION WORKSHEET
SURROGATE SPIKES/SYSTEM MONITORING COMPOUNDS - WATER SAMPLES
EPA Level IV

SDG #: 125865
Lab: CT Laboratories
Client: Trinity Analysis & Development

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Method: SW8260B

Were all surrogate recoveries within the specified criteria (65-135%)? **Yes**
Were recalculations performed on a representative sample of the results? **Yes**

List any samples which did not have acceptable surrogate recoveries.

Sample ID	Surrogate	%Rec.	Control Limits	Action

Any non-detect result associated with a surrogate recovery below 10% should be rejected.

CALCULATIONS

Sample ID: 135664, 840400 p 136
Compound ID: Dibromofluoromethane
Reported Result: 95%

$$\% \text{ Recovery} = \frac{\text{Conc. Surr. In Sample}}{\text{Conc. Surr. Spiked}} \times 100$$

Conc. In Sample = 0.02
Surr. Spike Conc. = 0.02

% Recovery = 95.0 Matches

Comments:
Recoveries within project limits.

GC/MS VALIDATION WORKSHEET
LABORATORY CONTROL SAMPLES
EPA Level IV

SDG #: 125865
Lab: CT Laboratories
Client: Trinity Analysis & Development

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Method: SW8260B

Were laboratory control samples analyzed at the proper frequency?	**Yes**
Were all spike recoveries and RPD values within the established criteria?	**Yes**
Were recalculations performed on a representative sample of the results?	**Yes**

If no, list outliers below.

LCS ID	Compound Out of Limits	% Rec. (LCS)	% Rec. (LCSD)†	Rec. Criteria	RPD	RPD Criteria	Associated Samples	Action

† LCSD is not required; however, it may be provided in some instances

CALCULATIONS

Sample ID: 843459 p 91
Compound ID: Toluene
Recovery: 94%

% Recovery = Conc. LCS / LCS Spike Conc. X 100

Conc. LCS = 3.74
LCS Spike Conc. = 4.00

% Recovery = 94 Matches

Sample ID: 843459/843150 p 86, 91
Compound ID: 1,1-dichloroethene
RPD: 2%

RPD = |LCS Conc. - LCSD Conc.| / (LCS Conc. + LCSD Conc.)/2 X 100

LCS Conc. = 3.77
LCSD Conc. = 3.85

RPD = 2
Matches

Comments:

GC/MS VALIDATION WORKSHEET - MATRIX SPIKES/DUPLICATES
EPA Level IV

SDG #: 125865
Lab: CT Laboratories
Client: Trinity Analysis & Development

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Method: SW8260B
Matrix: Water

Were MS/MSD samples analyzed at the proper frequency?	**Yes**
Were all spike recoveries and RPD values within the established criteria?	**No**
Were recalculations performed on a representative sample of the results?	**Yes**

If no, list outliers below.

Spiked Sample ID	Compound Out of Limits	% Rec. (MS)	% Rec. (MSD)	Rec. Criteria	RPD	RPD Criteria	Associated Samples	Action

* - within criteria but included for comparison purposes

CALCULATIONS

Sample ID: 840891 p 94
Compound ID: Trichloroethene
Recovery: 118

Sample ID: 840891/840392 p 92, 95
Compound ID: Chloroform
RPD: 11

$$\%\ Recovery = \frac{Conc.\ MS - Conc.\ Unspiked\ Sample}{MS\ Spike\ Conc.} \times 100$$

$$RPD = \frac{|MS\ Conc. - MSD\ Conc.|}{(MS\ Conc. + MSD\ Conc.)/2} \times 100$$

Conc. MS = 13.40
Unspiked Samp. = 0.0
MS Spike Conc. = 11.4

% Recovery = 118 Matches

MS % = 111
MSD %. = 124

RPD = 11

Comments:

GC/MS VALIDATION WORKSHEET
INTERNAL STANDARDS
EPA Level IV

SDG #: 125865
Lab: CT Laboratories
Client: Trinity Analysis & Development

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Method: SW8260B

Were all internal standard values within +/- 50% of the calibration standard? **Yes**
Were all internal standard RTs within +/- 30 seconds of the calibration standard? **Yes**
Did the raw data agree with the summary report? **Yes**

List any samples which did not meet the specified criteria below, and describe reasons for qualification in Comment section.

Sample	Internal Standard	Area Counts %	Control Limits	Action

Comments:

GC/MS VALIDATION WORKSHEET
TARGET COMPOUND QUANTITATION
EPA Level IV

SDG #:	125865	Date:	5/17/17
Lab:	CT Laboratories	Page:	1 of 1
Client:	Trinity Analysis & Development	Validated by:	GG
		Second Review by:	EM

Method: SW8260B

Were recalculations performed on at least 10% of positive results?	**Yes**
Did all raw data agree with the final reported results?	**Yes**
Were positive hits verified by acceptable mass spectra?	**Yes**
Were all retention times within 0.06 RRT units of the daily standard?	**Yes**

CALCULATIONS

Sample ID: 840397 p 52, 128-129
Compound ID: Toluene
Reported Result: 0.527

$$\text{Conc. In Sample} = \frac{\text{Area Cmpd. In Sample}}{\text{Area of I.S.}} \times \frac{\text{Conc. of I.S.}}{\text{Average RRF}} \times \frac{\text{Final Volume}}{\text{Initial Amount}} \times \text{Dilution Factor}$$

		Units
Area Sample =	18397	Area
Area I.S. =	1121168	Area
Conc. I.S. =	0.02	
Average RRF =	0.5110	NA
Final Volume =	5.0	mL
Initial Amount =	0.0	
Dilution Factor =	1.0	NA

Conc. In Sample = 0.53519
Match

Comments

DATA VALIDATION REPORT
VOLATILE ORGANIC COMPOUNDS

Project Name:	DDM Dunn Field Phase II; Memphis, TN
Contractor:	Trinity Analysis & Development
Project Number:	W9128F-11-D-0029, TO CK01
Laboratory:	Curtis and Tompkins, Ltd.
Sample Delivery Group:	126716
Analysis:	Volatile Organic Compounds by Method SW8260B
EPA QC Level:	Level IV

Field ID	Laboratory ID	Matrix	Analysis
DF-SB59-16-1704	856713	Soil	Volatile Organic Compounds
DF-SB59-20-1704	856716	Soil	Volatile Organic Compounds
DF-SB62-10-1704	856717	Soil	Volatile Organic Compounds
DF-SB62-16-1704	856718	Soil	Volatile Organic Compounds
DF-SB63-7-1704	856719	Soil	Volatile Organic Compounds
DF-SB63-15-1704	856720	Soil	Volatile Organic Compounds
DF-SB67-3-1704	856721	Soil	Volatile Organic Compounds
DF-SB67-10-1704	856722	Soil	Volatile Organic Compounds
DF-DUP-2-1704	856723	Soil	Volatile Organic Compounds
DF-TB-2-1704	856724	Water	Volatile Organic Compounds
DF-RB-2-1704	856725	Water	Volatile Organic Compounds
DF-SB66-19-1704	856726	Soil	Volatile Organic Compounds
DF-SB61-13-1704	856727	Soil	Volatile Organic Compounds
DF-SB61-20-1704	856728	Soil	Volatile Organic Compounds
DF-SB60-16-1704	856729	Soil	Volatile Organic Compounds
DF-SB60-19-1704	856730	Soil	Volatile Organic Compounds
DF-DUP-1-1704	856731	Soil	Volatile Organic Compounds
DF-TB-1-1704	856732	Water	Volatile Organic Compounds
DF-RB-1-1704	856733	Water	Volatile Organic Compounds
DF-SB58-11-1704	856734	Soil	Volatile Organic Compounds
DF-SB58-23-1704	856737	Soil	Volatile Organic Compounds
DF-SB66-12-1704	856738	Soil	Volatile Organic Compounds
DF-SB65-19-1704	856739	Soil	Volatile Organic Compounds
DF-SB65-5-1704	856740	Soil	Volatile Organic Compounds
DF-SB64-18-1704	856741	Soil	Volatile Organic Compounds
DF-SB64-13-1704	856742	Soil	Volatile Organic Compounds

INTRODUCTION

This validation report assesses the analytical data quality of the analyses listed on the preceding cover page. Samples were analyzed for volatile organic compounds in accordance with *USEPA Method SW8260B*. The review criteria employed in the generation of this report is based on the QC requirements contained in the analytical method and the *Uniform Federal Policy-Quality Assurance Project Plan Membrane Interface Probe Survey Work Plan,* revised December 2016. The review procedure is consistent with *USEPA CLP National Functional Guidelines for Organic Data Review,* 2008 revision, to the extent possible. In cases where two qualifiers are listed as an action, such as "J/UJ", the first qualifier applies to positive results, and the second to non-detect results. In areas where definitive guidance is not provided in either *Functional Guidelines* or the *QAPjP*, data has been evaluated in a conservative manner using professional judgment.

I. HOLDING TIMES

Objective: The validity of results is ascertained based on the holding time of the sample from time of collection to time of sample extraction and analysis.

Evaluation: Holding times were determined by comparing the sampling date on the chain of custody records with the dates of analysis found on the analytical raw data and summary forms.

Samples were received properly preserved. The chain of custody records were complete and in agreement with the laboratory sample lists. All holding times were met.

Action: No qualifiers have been applied.

II. GC/MS INSTRUMENT PERFORMANCE CHECK

Objective: GC/MS instrument performance checks are performed to ensure mass resolution, identification, and to some degree, sensitivity. These criteria are not sample specific. Conformance is determined using standard materials; therefore, these criteria should be met in all circumstances.

Evaluation: Instrument performance checks were performed for each 12 hour period in which samples were analyzed. Mass assignments and ion abundances were consistent between the summary forms and the raw data. Calculations were performed on a representative cross section of the data and no discrepancies were found.

Action: No qualifiers have been applied.

III. INITIAL CALIBRATION

Objective: Compliance requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data for compounds on the Target Compound List (TCL). Initial calibration demonstrates that the instrument is capable of acceptable performance and of producing a linear calibration curve.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts, and recalculations were performed to verify the reported results.

Initial calibrations were performed in accordance with the method. All RRFs and RSD values were within control limits. No calculation or transcription errors were observed.

The laboratory case narrative indicated that Iodomethane and Chloromethane were detected in the Initial Calibration Blank (ICB) on the associated calibration curve; however, this is not a compound of interest.

Action: No qualifiers have been applied.

IV. CONTINUING CALIBRATION

Objective: Compliance requirements for satisfactory continuing calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data for target compounds at the beginning of the analytical sequence. The continuing calibration demonstrates satisfactory performance of the instrument on a day-to-day basis.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts, and recalculations were performed to verify the reported results.

Continuing calibrations were performed in accordance with the method. No calculation or transcription errors were observed.

Action: No qualifiers have been applied.

V. BLANKS

Objective: The purpose of laboratory and field blanks is to determine the existence and magnitude of contamination problems resulting from laboratory and field activities. The criteria for evaluation of blanks apply to any blank associated with the samples (e.g., method blanks, instrument blanks, trip blanks, and equipment blanks). If problems exist with any blank, all associated data must be carefully evaluated to determine whether or not there is an inherent variability in the data, or if the problem is an isolated occurrence not affecting other data.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts.

Method and field blank analyses were performed appropriately for this SDG. Summary forms and corresponding raw data were reviewed for all blanks. No target analytes were present in the blanks at actionable levels.

Chloromethane, Dichlorodifluoromethane, and Iodomethane were noted as outside control limits in the laboratory case narrative; however, these compounds are not of interest.

Action: No qualifiers have been applied.

VI. SURROGATE SPIKES

Objective: Method performance for individual samples is demonstrated through spiking activities. All samples are spiked with surrogate compounds prior to sample preparation. The sample itself may produce effects due to such factors as interferences and high concentrations of analytes.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts, and recalculations were performed to verify the reported results.

Surrogate recoveries were within project control limits. No calculation or transcription errors were observed.

Action: No qualifiers have been applied.

VII. MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Objective: Data for matrix spikes/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. These data alone cannot be used to evaluate the precision and accuracy of individual samples. However, when exercising professional judgment, MS/MSD data can be used in conjunction with other available QC information.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts, and recalculations were performed to verify the reported results.

Matrix spikes and matrix spike duplicates were analyzed at the appropriate frequency. No calculation or transcription errors were observed.

The laboratory case narrative indicated that the Matrix Spike (MS) for sample # 856734 had high recoveries for tetrachloroethene and 4-methyl-2-pentanone as well as a high recovery for styrene. The Matrix Spike Duplicate (MSD) had low recoveries for naphthalene, styrene, and vinyl acetate. Only Tetrachloroethene is a compound of interest and all associated samples were non-detect, so no action is required.

Action: No qualifiers have been applied.

VIII. LABORATORY CONTROL SAMPLES

Objective: Data for laboratory control samples are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts, and recalculations were performed to verify the reported results.

Laboratory control samples were analyzed at the appropriate frequency. All recoveries and RPD values were within control limits, and no calculation or transcription errors were observed.

Action: No qualifiers have been applied.

IX. FIELD DUPLICATES

Objective: Field Duplicate analyses are performed in order to assess field sampling precision for each sample matrix.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts.

Action: No qualifiers have been applied.

X. INTERNAL STANDARDS

Objective: Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during every analytical run sequence.

Evaluation: Reported results were evaluated to determine compliance with the required acceptance criteria. Summary forms were compared to instrument printouts.

All internal standard area counts and retention times were within the established control limits, and no transcription errors were observed.

Action: No qualifiers have been applied.

XI. TARGET COMPOUND IDENTIFICATION

Objective: Qualitative criteria for compound identification have been established to minimize the number of erroneous identifications of compounds, either false positives or false negatives.

Evaluation: Quantitation reports and chromatograms were examined to verify that all peaks were reported as either targets, surrogates, internal standards, or tentatively identified compounds (TICs).

Target compound retention times were compared to the daily standard and were found to be acceptable. The mass spectra of each reported compound matched the corresponding standard spectra within the specified criteria. No calculation or transcription errors were observed.

Action: No qualifiers have been applied.

XII. COMPOUND QUANTITATION AND REPORTED CRQLS

Objective: Careful evaluation is required to ensure that the reported quantitation results and contract required quantitation limits (CRQLs) for target compounds are accurate.

Evaluation: Quantitation reports, chromatograms, and sample preparation sheets were examined for all samples to verify the reported results and quantitation limits. Recalculations were performed to verify reported results.

No calculation errors or other discrepancies were found. The correct internal standards, quantitation ions, and RRFs were used for compound quantitation.

Action: No qualifiers have been applied.

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

Objective: Chromatographic peaks that are not target analytes, surrogates, or internal standards are potential tentatively identified compounds (TICs). TICs must be qualitatively identified by a National Institute of Standards and Testing (NIST) mass spectral library search and the identifications assessed by the data reviewer.

Evaluation: No TICs were reported in this SDG.

Action: No qualifiers have been applied.

XIV. SYSTEM PERFORMANCE

Objective: During the period following the initial instrument performance checks, changes may occur in the system that degrade the quality of the data. While this degradation would not be directly shown until the next required series of instrument performance checks, a thorough review of the ongoing data acquisition can yield indications of instrument performance.

Evaluation: No chromatographic retention time shifts, changes in resolution, or other indicators of performance degradation were observed throughout any of the analytical sequences.

Action: No qualifiers have been applied.

OVERALL DATA ASSESSMENT

Out of control events experienced by the laboratory have not warranted the qualification of any results in this data set. The deficiencies described in this report are not considered cause for concern with regard to the laboratory's ability to identify and quantify the required target analytes. Based on the information evaluated, the overall quality of the data appears to be good.

GC/MS VALIDATION WORKSHEET
EPA Level IV

SDG #: 126716
Lab: CT Laboratories
Client: Trinity Analysis & Development

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Method: SW8260B

List all validated samples below, including matrix spikes and duplicates.

	Field ID	Laboratory ID	Matrix	Type †		Field ID	Laboratory ID	Matrix	Type †
1	DF-SB59-16-1704	856713	Soil	N	11	DF-RB-2-1704	856725	Water	RB
2	DF-SB59-20-1704	856716	Soil	N	12	DF-SB66-19-1704	856726	Soil	N
3	DF-SB62-10-1704	856717	Soil	N	13	DF-SB61-13-1704	856727	Soil	N
4	DF-SB62-16-1704	856718	Soil	N	14	DF-SB61-20-1704	856728	Soil	N
5	DF-SB63-7-1704	856719	Soil	N	15	DF-SB60-16-1704	856729	Soil	N
6	DF-SB63-15-1704	856720	Soil	N	16	DF-SB60-19-1704	856730	Soil	N
7	DF-SB67-3-1704	856721	Soil	N	17	DF-DUP-1-1704	856731	Soil	FD
8	DF-SB67-10-1704	856722	Soil	N	18	DF-TB-1-1704	856732	Water	TB
9	DF-DUP-2-1704	856723	Soil	FD	19	DF-RB-1-1704	856733	Water	RB
10	DF-TB-2-1704	856724	Water	TB	20	DF-SB58-11-1704	856734	Soil	N

† N = Normal Environmental Sample EB = Equipment Blank AB = Ambient Blank
TB = Trip Blank FD = Field Duplicate

The samples identified above were evaluated for each of the following validation requirements. Validation findings are noted in the associated worksheets.

No.	Validation Requirements	Note ‡	Comments
I.	Technical Holding Times/Sample Receipt	A	
II.	Instrument Performance	A	
III.	Initial Calibration	A	
IV.	Continuing Calibration	A	
V.	Blanks	A	
VI.	Surrogate Spikes	A	
VII.	Matrix Spikes/Matrix Spike Duplicates	SW	
VIII.	Laboratory Control Samples	A	
IX.	Internal Standards	A	
X.	Target Compound Identification	A	
XI.	Compound Quantitation and Reported CRQLs	A	
XII.	System Performance	A	

‡ A = Acceptable N = Not provided/applicable SW = See worksheet

Comments:

GC/MS VALIDATION WORKSHEET
SAMPLE RECEIPT AND HOLDING TIMES
EPA Level IV

SDG #: 126716
Lab: CT Laboratories
Client: Trinity Analysis & Development
Method: SW8260B

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Were all technical holding times met? **Yes**
Were all method holding times met? **Yes**
Were all samples received in good condition? **Yes**
If No, describe in Comment section.

					Extraction				Analysis			
Field ID	Date Sampled	Date Received	Pres Y/N	Temp OK?	Date Extracted	Applicable Hold	Last Day of Hold	Days Out of Hold	Date Analyzed	Applicable Hold	Last Day of Hold	Days Out of Hold
DF-SB59-16-1704	04/17/17	04/19/17	Yes	Yes					4/27/17	14 days	5/1/17	0
DF-SB59-20-1704	04/17/17	04/19/17	Yes	Yes					4/27/17	14 days	5/1/17	0
DF-SB62-10-1704	04/18/17	04/19/17	Yes	Yes					4/28/17	14 days	5/2/17	0
DF-SB62-16-1704	04/18/17	04/19/17	Yes	Yes					4/28/17	14 days	5/2/17	0
DF-SB63-7-1704	04/18/17	04/19/17	Yes	Yes					4/28/17	14 days	5/2/17	0
DF-SB63-15-1704	04/18/17	04/19/17	Yes	Yes					4/28/17	14 days	5/2/17	0
DF-SB67-3-1704	04/18/17	04/19/17	Yes	Yes					4/28/17	14 days	5/2/17	0
DF-SB67-10-1704	04/18/17	04/19/17	Yes	Yes					4/28/17	14 days	5/2/17	0
DF-DUP-2-1704	04/18/17	04/19/17	Yes	Yes					4/28/17	14 days	5/2/17	0
DF-TB-2-1704	04/18/17	04/19/17	Yes	Yes					4/21/17	14 days	5/2/17	0
DF-RB-2-1704	04/18/17	04/19/17	Yes	Yes					4/21/17	14 days	5/2/17	0
DF-SB66-19-1704	04/18/17	04/19/17	Yes	Yes					4/28/17	14 days	5/2/17	0
DF-SB61-13-1704	04/17/17	04/19/17	Yes	Yes					4/28/17	14 days	5/1/17	0
DF-SB61-20-1704	04/17/17	04/19/17	Yes	Yes					4/28/17	14 days	5/1/17	0

Comments:
Samples received at 3.3 deg C.

GC/MS VALIDATION WORKSHEET
INSTRUMENT PERFORMANCE CHECK
EPA Level IV

SDG #:	126716	Date:	5/17/17
Lab:	CT Laboratories	Page:	1 of 1
Client:	Trinity Analysis & Development	Validated by:	GG
		Second Review by:	EM

Method: SW8260B

Were all standards, blanks and samples analyzed within 12 hours of the injection of the tuning compound?	**Yes**
Were all relative abundance ratios within criteria?	**Yes**
Was acceptable spectra generated and provided for each tune?	**Yes**
Were all summary forms in agreement with raw data?	**Yes**
Were recalculations performed on a representative sample of the results?	**Yes**

List any QC element which did not meet the specified criteria below, and describe reasons for qualification in Comment section.

Field ID	Time and Date of Analysis	Tune Injection Time	Action

CALCULATIONS

Tune ID: 4/21/17 8:02 VMS4
Recalculated Ion Ratio: 50 : 95
Reported Ratio: 19.50%

$$\text{Relative Abundance (Ion Ratio)} = \frac{\text{Response of Target Mass}}{\text{Response of Reference Mass}} \times 100$$

Target Mass Response = 7807
Reference Mass Response = 39954

Relative Abundance = 19.54% Matches

Comments:

GC/MS VALIDATION WORKSHEET
INITIAL CALIBRATION
EPA Level IV

SDG #:	126716	Date:	5/17/17
Lab:	CT Laboratories	Page:	1 of 1
Client:	Trinity Analysis & Development	Validated by:	GG
		Second Review by:	EM

Method: SW8260B

Were all standards analyzed at the appropriate concentrations?	**Yes**
Were all samples associated with an acceptable initial calibration?	**Yes**
Were RRF values >/= 0.3 for SPCC (0.1 for bromoform, chloromethane, 1,1-DCA)?	**Yes**
Were all %RSD values ≤ 30.0?	**Yes**
Were recalculations performed on a representative sample of the RRFs?	**Yes**
Were recalculations performed on a representative sample of the %RSDs?	**Yes**

List any samples which did not meet the specified criteria below, and describe reasons for qualification in Comment section.

Date	Compound	%RSD/RRF	Criteria	Action	Associated Samples

CALCULATIONS

RRF Standard ID: LW040917.M p 341
Compound ID: Toluene
Reported Result: 0.6250

RRF = Compound Area X I.S. Conc. / I.S. Area X Compound Conc.

Compound Area = 362246
I.S. Area = 1167161
Compound Conc. = 2.0
I.S. Conc. = 4

RRF = 0.6207
Matches

Calibration ID: LW040917.M p 308
Compound ID: Toluene
%RSD: 8%
Average RRF = 0.625

%RSD = Standard Deviation / Average RRF X 100

RF Level 1 = 0.7200
RF Level 2 = 0.6510
RF Level 3 = 0.6350
RF Level 4 = 0.6210
RF Level 5 = 0.6100
RF Level 6 = 0.6250
RF Level 7 = 0.5640
RF Level 8 = 0.6250
RF Level 9 = 0.5760

Standard Deviation = 0.045
Average RRF = 0.6252 Matches
%RSD = 7.2 Matches

Comments:

GC/MS VALIDATION WORKSHEET
CONTINUING CALIBRATION
EPA Level IV

SDG #:	126716	Date:	5/17/17
Lab:	CT Laboratories	Page:	1 of 1
Client:	Trinity Analysis & Development	Validated by:	GG
		Second Review by:	EM
Method:	SW8260B		

Were all samples associated with an acceptable continuing calibration?	**Yes**
Were RRF values >/= 0.3 for SPCC (0.1 for bromoform, chloromethane, 1,1-DCA)?	**Yes**
Were all %D values < 30%?	**Yes**
Were recalculations performed on a representative sample of the RRFs?	**Yes**
Were recalculations performed on a representative sample of the %Ds?	**Yes**

List any samples which did not meet the specified criteria below, and describe reasons for qualification in Comment section. **Include +/- notation to denote bias of %D outliers.**

Date	Compound	RRF/%D	Criteria	Action	Associated Samples

CALCULATIONS

RRF Standard ID:	137136,CCVF VMS4 4/28/17	%D Standard ID:	137136,CCVF VMS	p 472, 476
Compound ID:	Vinyl Chloride	Compound ID:	Vinyl Choride	
Reported Result:	0.2682	Reported %D:	-3%	

CCV RRF = Compound Area X I.S. Conc. / I.S. Area X Compound Conc.

%D = Average RRF - CCV RRF / Average RRF X 100

Compound Area =	168679	Average RRF =	0.2613
I.S. Area =	1258063	CCV RRF =	0.2682
Compound Conc. =	10.0		
I.S. Conc. =	20	%D =	-2.6 Matches

CCV RRF = 0.2682 Matches %D Indicating Bias = 2.6

Comments:
%D within project limits

GC/MS VALIDATION WORKSHEET
BLANKS
EPA Level IV

SDG #:	126716	Date:	5/17/17
Lab:	CT Laboratories	Page:	1 of 1
Client:	Trinity Analysis & Development	Validated by:	GG
		Second Review by:	EM
Method:	SW8260B		

Was a blank analyzed for each extraction batch?	**Yes**
Was a storage blank analyzed on each day of analysis?	**NA**
(SVOA) Was a blank analyzed for each GC/MS system?	**NA**
(VOA) Was a blank analyzed for each 12 hour period?	**Yes**
Were all field blanks analyzed appropriately?	**Yes**
(VOA) Were all trip blanks analyzed appropriately	**Yes**
Were all blanks free of contamination at or above the MDL/CRQL?	**Yes**

Record any contaminants (target or non-target) which were detected in the blanks.

Blank	Blank Type	Compound	Conc. (ug/L)	CRQL (ug/L)	Action Level	Action	Associated Samples

Action Level = 10 X Blank concentration (common contaminants-methylene chloride, acetone, 2-butanone, phthalates)
5 X Blank concentration (all other TCL compounds)

Comments:

TB and EB nondetect for all compounds.

GC/MS VALIDATION WORKSHEET
SURROGATE SPIKES/SYSTEM MONITORING COMPOUNDS - WATER SAMPLES
EPA Level IV

SDG #: 126716
Lab: CT Laboratories
Client: Trinity Analysis & Development

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Method: SW8260B

Were all surrogate recoveries within the specified criteria (65-135%)? **Yes**
Were recalculations performed on a representative sample of the results? **Yes**

List any samples which did not have acceptable surrogate recoveries.

Sample ID	Surrogate	%Rec.	Control Limits	Action

Any non-detect result associated with a surrogate recovery below 10% should be rejected.

CALCULATIONS

Sample ID: 856729 p 245
Compound ID: Dibromofluoromethane
Reported Result: 105%

$$\% \text{ Recovery} = \frac{\text{Conc. Surr. In Sample}}{\text{Conc. Surr. Spiked}} \times 100$$

Conc. In Sample = 0.02
Surr. Spike Conc. = 0.02

% Recovery = 105.0 Matches

Comments:
Recoveries within project limits.

GC/MS VALIDATION WORKSHEET
LABORATORY CONTROL SAMPLES
EPA Level IV

SDG #: 126716
Lab: CT Laboratories
Client: Trinity Analysis & Development

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Method: SW8260B

Were laboratory control samples analyzed at the proper frequency? **Yes**
Were all spike recoveries and RPD values within the established criteria? **Yes**
Were recalculations performed on a representative sample of the results? **Yes**
If no, list outliers below.

LCS ID	Compound Out of Limits	% Rec. (LCS)	% Rec. (LCSD)†	Rec. Criteria	RPD	RPD Criteria	Associated Samples	Action

† LCSD is not required; however, it may be provided in some instances

CALCULATIONS

Sample ID: 857898
Compound ID: Toluene p 112
Recovery: 94%

Sample ID: 858789/858788
Compound ID: 1,1-dichloroethene p 128
RPD: 6%

% Recovery = Conc. LCS / LCS Spike Conc. X 100

RPD = |LCS Conc. - LCSD Conc.| / (LCS Conc. + LCSD Conc.)/2 X 100

Conc. LCS = 3.76
LCS Spike Conc. = 4.00

LCS Conc. = 10.60
LCSD Conc. = 10.00

% Recovery = 94 Matches

RPD = 6 Matches

Comments:

GC/MS VALIDATION WORKSHEET - MATRIX SPIKES/DUPLICATES
EPA Level IV

SDG #: 126716
Lab: CT Laboratories
Client: Trinity Analysis & Development

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Method: SW8260B
Matrix: Water

Were MS/MSD samples analyzed at the proper frequency? **Yes**
Were all spike recoveries and RPD values within the established criteria? **No**
Were recalculations performed on a representative sample of the results? **Yes**
If no, list outliers below.

Spiked Sample ID	Compound Out of Limits	% Rec. (MS)	% Rec. (MSD)	Rec. Criteria	RPD	RPD Criteria	Associated Samples	Action
856734	tetrachloroethene	152	112	73-128%			856734	J/None
858785	1,1,2,2-tetrachloroethane				23	<20	Non-SDG Sample	J/None
Non-SDG Sample	tetrachloroethene				30	<21		J/None

* - within criteria but included for comparison purposes

CALCULATIONS

Sample ID: 858785 p 118
Compound ID: Trichloroethene
Recovery: 113

Sample ID: 858786 p 116, 119
Compound ID: Bromobenzene
RPD: 17

$$\% \text{ Recovery} = \frac{\text{Conc. MS - Conc. Unspiked Sample}}{\text{MS Spike Conc.}} \times 100$$

$$\text{RPD} = \frac{|\text{MS Conc. - MSD Conc.}|}{(\text{MS Conc. + MSD Conc.})/2} \times 100$$

Conc. MS = 12.20
Unspiked Samp. = 0.0
MS Spike Conc. = 10.8

% Recovery = 113 Matches

MS Conc. = 11.70
MSD Conc. = 9.30

RPD = 23 Not match

Comments:

GC/MS VALIDATION WORKSHEET
INTERNAL STANDARDS
EPA Level IV

SDG #: 126716
Lab: CT Laboratories
Client: Trinity Analysis & Development

Date: 5/17/17
Page: 1 of 1
Validated by: GG
Second Review by: EM

Method: SW8260B

Were all internal standard values within +/- 50% of the calibration standard? **Yes**
Were all internal standard RTs within +/- 30 seconds of the calibration standard? **Yes**
Did the raw data agree with the summary report? **Yes**

List any samples which did not meet the specified criteria below, and describe reasons for qualification in Comment section.

Sample	Internal Standard	Area Counts %	Control Limits	Action

Comments:

GC/MS VALIDATION WORKSHEET
TARGET COMPOUND QUANTITATION
EPA Level IV

SDG #:	126716	Date:	5/17/17
Lab:	CT Laboratories	Page:	1 of 1
Client:	Trinity Analysis & Development	Validated by:	GG
		Second Review by:	EM

Method: SW8260B

Were recalculations performed on at least 10% of positive results?	**Yes**
Did all raw data agree with the final reported results?	**Yes**
Were positive hits verified by acceptable mass spectra?	**Yes**
Were all retention times within 0.06 RRT units of the daily standard?	**Yes**

CALCULATIONS

Sample ID: DF-SB58-11-1704 856734
Compound ID: Toluene p 25, 263
Reported Result: 0.401 ug/L

Conc. In Sample = $\frac{\text{Area Cmpd. In Sample}}{\text{Area of I.S.}} \times \text{Conc. of I.S.} \times \text{Final Volume} \times \text{Dilution Factor}$
Average RRF Initial Amount

		Units
Area Sample =	9930	Area
Area I.S. =	918019	Area
Conc. I.S. =	10	
Average RRF =	0.6250	NA
Final Volume =	15.0	mL
Initial Amount =	6.5	
Dilution Factor =	1.0	NA

Conc. In Sample = 0.402
Match

Comments

Appendix G Phase II Data Gap Technical Memorandum

Memorandum

To: James C. Foster – DAIM-ODB
Joan Hutton – CALIBRE BEC
Laura Roebuck – USACE, Mobile District

From: Todd Calhoun

Date: 03 April 2017

Re: Membrane Interface Probe Survey
Phase II Soil Sampling
Dunn Field - Defense Depot Memphis, Tennessee

This Phase II Soil Sampling Technical Memorandum describes the activities which will be conducted to address data gaps from the Membrane Interface Probe (MIP) survey conducted from 02 March through 09 March 2017. The work will be performed for the Office of the Assistant Chief of Staff for Installation Management, Base Realignment and Closure Division (ACSIM-ODB) by Trinity Analysis & Development Corp. (Trinity) under Contract W9128F-11-D-0029, Task Order CK01 with the U.S. Army Corps of Engineers, Mobile District (USACE-SAM).

DATA GAPS

During the MIP survey 49 of the proposed locations were completed (**Figure 1**). The remaining proposed MIP borings are located within three areas not investigated due to access and clearance limitations. Two areas are located on existing Army property and adjacent private property which are isolated by concrete surface drainage features, property fence, and steep grades restricting access. The third area is the southeastern portion of the study area along Hays Road where two MIP locations were not completed due to the lack of utility clearance.

In conjunction with and at the conclusion of the MIP survey, subsurface soil samples were collected at 16 locations based on the observed responses of the XSD (halogen specific detector) sensor. Locations of the soil borings and analytical results from the Phase I soil sampling are provided on **Figure 2**. Mapped locations represent final surveyed locations and reflect field adjustments due to uneven ground surface, vegetation, and/or underground utilities.

A review of preliminary soil analytical data identified an estimated value of tetrachloroethene (PCE, 0.792J µg/kg) in the sample collected at location M38 from a depth of 15 feet below land surface (bls), no other chlorinated volatile organic compounds were detected (**Figure 2**).

PROPOSED APPROACH

The data gaps from the areas not investigated during the MIP survey will be addressed by collecting subsurface soil samples for volatile organic compound analysis by USEPA Method 8260C at 10 locations: 2 locations east of Hays Road, 6 locations within the eastern isolated location on private property, and 2

locations within the western isolated area on Army property. Proposed soil boring locations are identified on **Figure 3**.

Soil borings will be advanced through the loess into the underlying sands or until water table conditions are encountered, whichever occurs first. Maximum total depths are estimated to range from 19 to 25 feet bls based on the MIP survey results. Borings will be advanced via direct push technology methods using a dual tube sampling system to allow for collection of continuous soil cores.

Soil cores will be collected using stainless core barrels with new acetate liners and screened at 2-foot intervals with a photoionization detector (PID) for headspace readings. Up to 2 soil intervals per boring will be sampled for laboratory analysis based on headspace readings. In the absence of elevated headspace readings, soil sample depths will be based on visual field observations and/or consistent with maximum XSD/PID response elevations. Quality assurance (QA)/quality control (QC) samples will be collected during the Phase II soil sampling: field duplicates (2), matrix spike/matrix spike duplicate pair (1), and equipment rinsate blanks (1 per day). Soil borings will be abandoned by filling with bentonite chips to land surface.

A handheld global positioning system capable of sub-foot accuracy will be used to locate the additional soil borings upon completion. Horizontal coordinates will be provided in the Tennessee State Plane coordinate system.

All other associated tasks including waste management, data reporting, and QA/QC will be performed in accordance with the *Uniform Federal Policy-Quality Assurance Project Plan, Membrane Interface Probe Survey Work Plan, Dunn Field Defense Depot Memphis, Tennessee* (Trinity, 2016).

Figures

Figure 1 MIP Survey Responses (XSD)

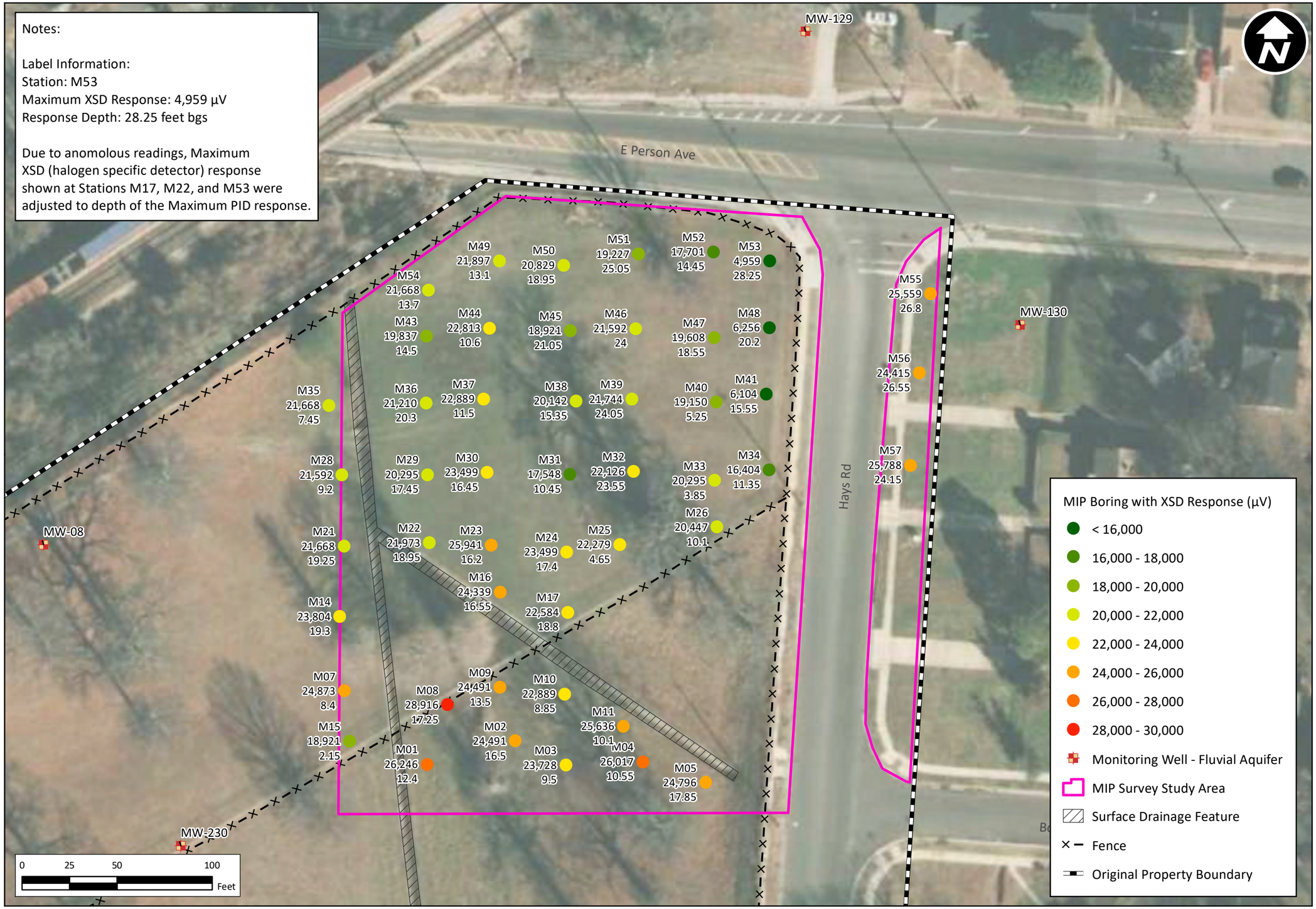
Figure 2 Phase I Soil Sampling Results

Figure 3 Proposed Phase II Soil Sampling Locations

Notes:

Label Information:
Station: M53
Maximum XSD Response: 4,959 µV
Response Depth: 28.25 feet bgs

Due to anomolous readings, Maximum XSD (halogen specific detector) response shown at Stations M17, M22, and M53 were adjusted to depth of the Maximum PID response.



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Figure 1
MIP Survey Responses (XSD)

Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

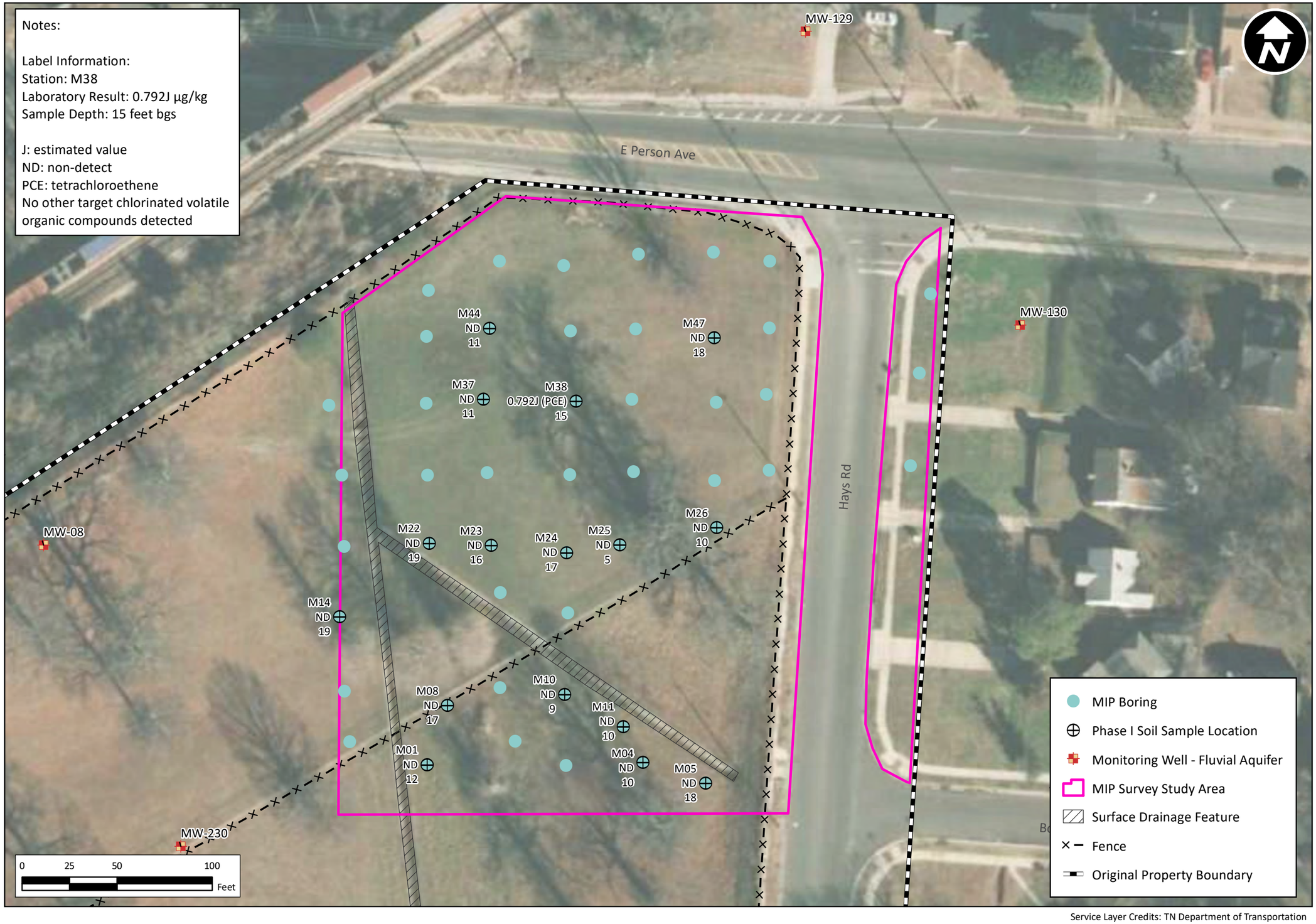
DRAWN BY: JTC
DATE: 3/30/2017
SCALE: AS SHOWN
PROJECT NO: W9128F-11-D-0029 CK01

U.S.ARMY

Notes:

Label Information:
Station: M38
Laboratory Result: 0.792J µg/kg
Sample Depth: 15 feet bgs

J: estimated value
ND: non-detect
PCE: tetrachloroethene
No other target chlorinated volatile organic compounds detected



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Figure 2
Phase I Soil Sampling Results

Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

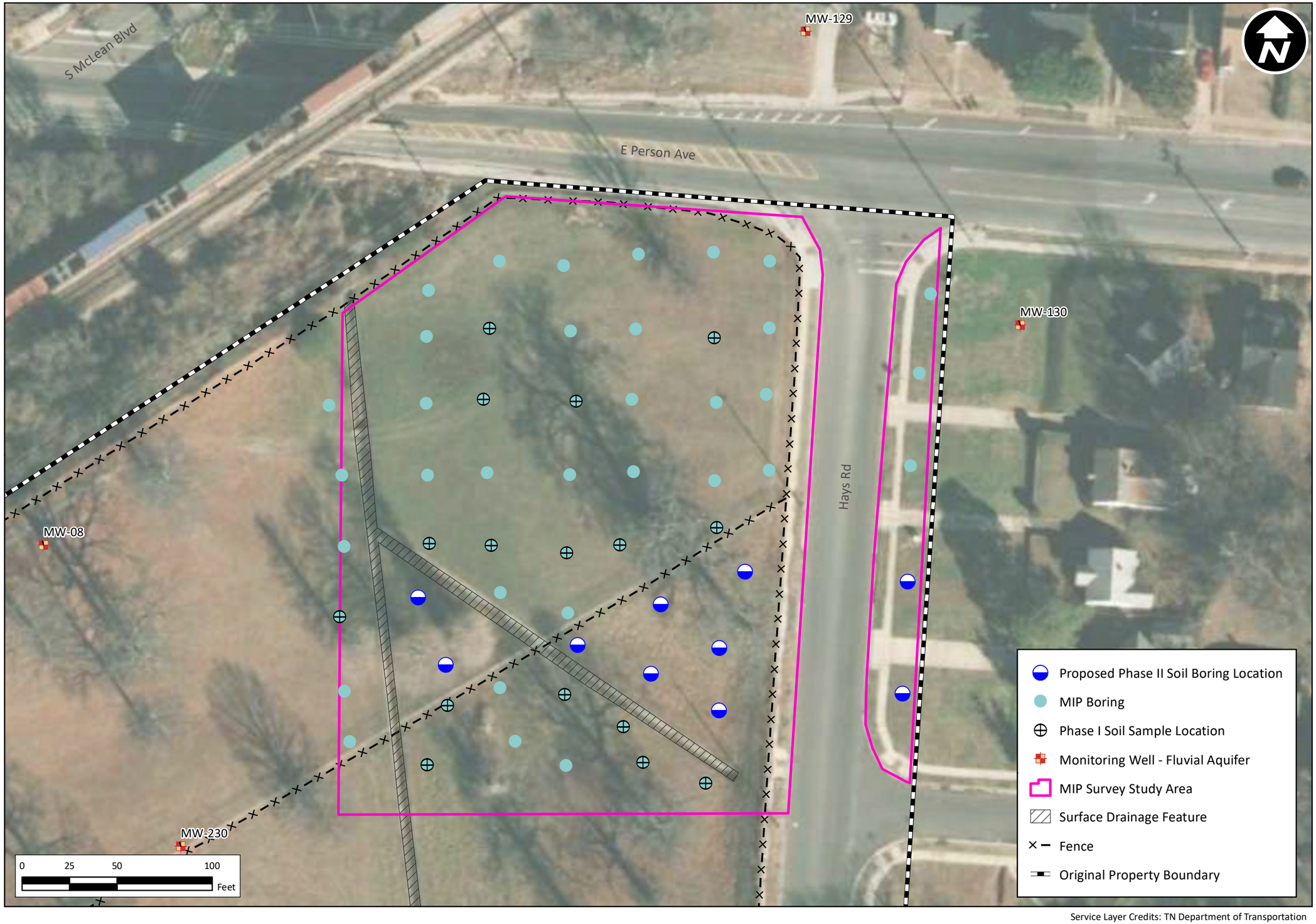
DRAWN BY: JTC
DATE: 4/03/2017
SCALE: AS SHOWN
PROJECT NO: W9128F-11-D-0029 CK01

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Figure 3
Proposed Phase II Soil Sampling Locations

Dunn Field
Defense Depot Memphis, Tennessee
Memphis, Shelby County, Tennessee

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