670 0

File: 541.460.000n
C.H.

THE MEMPHIS DEPOT
TENNESSEE

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 670

SEVERN TRENT SERVICES

STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238-1330

Tel: 412 820 8380
Fax: 412 820 2080
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. UXB 7512-060

Dunn Field, Def Depot Memphis

Lot #: C0H170113

Frank Johnson

UXB International

SEVERN TRENT LABORATORIES, INC.

Dave Dunlap
Project Manager

September 8, 2000

CASE NARRATIVE
UXB International Inc.
Dunn Field

LOT # C0H170113

Sample Receiving:
STL Pittsburgh received samples on August 17, 2000 in good condition and within the proper temperature range.

Volatiles:
There were no problems associated with the analysis.

Semivolatiles:
There were no problems associated with the analysis.

Pesticides:
The form 8's do not reflect that the retention times of the surrogates were updated with the times from the continuing calibration standards.

Herbicides:
There were no problems associated with the analysis.

Total Matals:
There were no problems associated with the analysis.

TCLP Metals:
There were no problems associated with the analysis.

General Chemistry:
The reactive cyanide and reactive sulfide analyses were completed at the STL North Canton, OH laboratory.

There were no problems associated with the analyses.

METHODS SUMMARY

C0H170113

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Chlorinated Herbicides by GC	SW846 8151A	SW846 1311/8150
Ignitability	SW846 SECTION 7	SW846 SECTION 7
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 1311/3010
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 1311/7470
Organochlorine Pesticides	SW846 8081A	SW846 1311/3510
Reactive Cyanide	SW846 7.3.3	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4	SW846 7.3.4
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 1311/3520
Soil and Waste pH	SW846 9045C	SW846 9045C
Total Residue as Percent Solids	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Volatile Organics by GC/MS	SW846 8260B	SW846 1311/5030

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

COH170113

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DJ0QL	001	DF/S1/0228/GRAB/006	08/16/00	08:00

NOTE(S):

The analytical results of the samples listed above are presented on the following pages.

- All calculations are performed before rounding to avoid round-off errors in calculated results

Results noted as "ND" were not detected at or above the stated limit

- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

Chain of Custody Record

Quanterra, Inc. - Pittsburgh PA Lab
450 William Pitt Way
Pittsburgh PA 15238

Quanterra

QDA-4124

Client: UXB International	Project Manager: Jim Thoren	Date: 8/16/00	Chain Of Custody Number: 67175
Address: Residence Inn, Rm 116, Old Poplar Pk.	Telephone Number (Area Code)/Fax Number: (901) 745-4599/745-4280	Lab Number:	Page 1 of 1
City: Memphis; State: TN; Zip Code: 38119	Site Contact: Chris Rose, James Ratcliff		
Project Name: Dunn Field	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Preservative	Condition on Receipt	Analysis: X TCLP + RCI	Analysis: X Total 6010B
DF/S1/0228/GRAB/0006	8/16/00	0800	soil	4,8,32oz	Glass	3	None		X	X

Special Instructions:

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Turn Around Time Required: ☒ Normal ☐ Rush

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific (Specify):

	Date	Time
1 Relinquished By: Chris Rose	8/16/00	0930
2 Relinquished By:		
3 Relinquished By:		
1. Received By:		
2 Received By:		
3 Received By: Anthony L	8-17-00	9:35

Comments:

DISTRIBUTION: WHITE - Stays with Sample, CANARY - Returned to Client with Report; PINK - Field Copy

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Cooler Receipt Form

STL Pittsburgh

Client: UXB Project: _____ Quote: 34878

Cooler Rec'd & Opened for Temp. Check on: 8-17-00

Coolers Opened and Unpacked on: 8-17-00 By: _____ (Signature)

STL Pittsburgh Lot Number: COH170113

		Yes	No
1.	Were custody seals on the outside of the cooler?		✓
	If YES, how many and where? Quantity __ Location		
	Were signatures and date correct?		
2.	Were custody papers included inside the cooler?	✓	
3.	Were custody papers properly filled out (ink, signed, match labels)?	✓	
4.	Did you sign the custody papers in the appropriate place?	✓	
5.	Was shippers packing slip attached to this form?	✓	
6.	Were packing materials used?	✓	
	If YES, what type? Bubble wrap & Duct Tape		
7.	Were the samples chilled? (Record temperatures on reverse side.)	✓	
8.	Were the samples appropriately preserved?	NA	
9.	Were all bottles sealed in separate plastic bags?	✓	
10.	Did all bottles arrive in good condition (unbroken)?	✓	
11.	Were all bottle labels complete (sample ID, preservatives, etc.)?	✓	
12.	Did all bottle labels and/or tags agree with custody papers?	✓	
13.	Were correct bottles used for tests indicated?	✓	
14.	Were all VOA vials checked for the presence of air bubbles?	NA	
15.	Was a sufficient amount of sample sent in each bottle?	✓	

16. Samples received by: (FEDEX) UPS CLIENT DROP-OFF OTHER AIRBORNE

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

Cooler Receipt Form

STL Pittsburgh

6.70 7

P: Preserved

UP: Unpreserved

Sample ID	TMET PH<2	DMET PH<2	HG PH<2	NUT(1) PH<2	CN PH ≥12	OG TPHC PH<2	PHEN PH<2	SULF PH ≥12	TOC PH<2	TOX PH<2	VOA P/UP	hrdnss PH<2			

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments: Soil Samples

Cooler Number	Temperature
1	3

Bottle Type	Lot Number*

* Please use an asterisk if bottle lot number was covered by the label.

STL Pittsburgh

670 8

FedEx USA Airbill

FedEx Tracking Number: 822525868550

Form I.D. No. 0200

1 From

Date 7/6/11

Sender's Name Chris Rose Phone 901 745-4999

Company LXB Int.

Address Residence Inn, Sm 116 C/411 Old Poplar Pk

Dept/Floor/Suite/Room

City Memphis State TN ZIP 38119

2 Your Internal Billing Reference

3 To

Recipient's Name Rusty Vance Phone 412 220-2091

Company Severn Trent

Address 450 William Pitt Way

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

City Pittsburgh State PA ZIP 15238

822525868550

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation:

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below — [ ] Obtain Recip Acct. No.

- [x] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	20	$ .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1-800-Go-FedEx (800-463-3339)

Visit our Web site at www.fedex.com

Rev. Date 8/98 PRINTED IN U.S.A. GBFE

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8

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

August-15, 2000
Dunn Field, Memphis Defense Depot
Results for CWM Soil Sample Analysis
Analyst: John L Schwarz

Sample#		1,4-Thioxane	1,4-Dithiane	TDG	Mustard	Lewisite
DF/S1/0228/GRAB/006		ND	ND	N/A	ND	ND

ND= Not detected at or above the method detection limit (MDL)
MDL= 200 ppb
BDL= Below detection limit, results > 100ppb, but < 200 ppb
MS= matrix spike
MSD= matrix spike duplicate
DUP= duplicate

DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID: C0H170113 001
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL
Work Order: DJ0QL102
Dilution factor: 1
Moisture %: 20

Date Received: 08/17/00
Date Extracted: 08/22/00
Date Analyzed: 08/22/00

QC Batch: 0235134

Client Sample Id: DF/S1/0228/GRAB/006

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.013	J
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene	0.050	U
79-01-6	Trichloroethene	0.050	U
75-01-4	Vinyl chloride	0.050	U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C0H220000 134
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 08/16/00
Work Order: DJ748101 Date Extracted:08/22/00
Dilution factor: 1 Date Analyzed: 08/22/00
Moisture %:NA

QC Batch: 0235134

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.441	
78-93-3	2-Butanone	0.201	
56-23-5	Carbon tetrachloride	0.479	
108-90-7	Chlorobenzene	0.418	
67-66-3	Chloroform	0.454	
107-06-2	1,2-Dichloroethane	0.441	
75-35-4	1,1-Dichloroethene	0.538	
127-18-4	Tetrachloroethene	0.432	
79-01-6	Trichloroethene	0.446	
75-01-4	Vinyl chloride	0.563	

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SW846 8260B SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0H170113

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	INTRA-LAB QC	89	92	84	89	00
02	DF/S1/0228/GRAB/006	86	93	88	85	00
03	METHOD BLK. DJ6X8101	93	91	94	90	00
04	LCS DJ748101	97	91	92	98	00
05	LAB MS/MSD D	94	90	93	97	00
06	LAB MS/MSD S	97	91	93	98	00

SURROGATES		QC LIMITS
SRG01	= 1,2-Dichloroethane-d4	(77-120)
SRG02	= Toluene-d8	(78-111)
SRG03	= 4-Bromofluorobenzene	(80-114)
SRG04	= Dibromofluoromethane	(78-110)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Lot #: C0H220000 WO #: DJ748101
BATCH: 0235134

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Benzene	0.500	0.441	88	79- 116	
2-Butanone	0.500	0.201	40	35- 156	
Carbon tetrachloride	0.500	0.479	96	72- 133	
Chlorobenzene	0.500	0.418	84	81- 115	
Chloroform	0.500	0.454	91	81- 122	
1,2-Dichloroethane	0.500	0.441	88	73- 127	
1,1-Dichloroethene	0.500	0.538	108	65- 119	
Tetrachloroethene	0.500	0.432	86	78- 131	
Trichloroethene	0.500	0.446	89	80- 122	
Vinyl chloride	0.500	0.563	113	53- 134	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

670 16 SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0H160154 WO #: DHX4011E
BATCH: 0235134

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
Benzene	0.500	ND	0.440	88	73- 123	
2-Butanone	0.500	ND	0.212	42	10- 151	
Carbon tetrachloride	0.500	ND	0.512	102	61- 143	
Chlorobenzene	0.500	ND	0.423	85	70- 122	
Chloroform	0.500	ND	0.471	94	65- 131	
1,2-Dichloroethane	0.500	ND	0.448	90	67- 132	
1,1-Dichloroethene	0.500	ND	0.572	114	57- 138	
Tetrachloroethene	0.500	ND	0.440	88	70- 130	
Trichloroethene	0.500	ND	0.453	91	58- 141	
Vinyl chloride	0.500	ND	0.643	129	51- 133	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C0H160154 WO #: DHX4011F
BATCH: 0235134

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Benzene	0.500	0.473	95	7.2	20	73- 123	
2-Butanone	0.500	0.206	41	2.8	34	10- 151	
Carbon tetrachloride	0.500	0.526	105	2.9	20	61- 143	
Chlorobenzene	0.500	0.446	89	5.4	20	70- 122	
Chloroform	0.500	0.488	98	3.6	20	65- 131	
1,2-Dichloroethane	0.500	0.463	93	3.2	20	67- 132	
1,1-Dichloroethene	0.500	0.594	119	3.8	20	57- 138	
Tetrachloroethene	0.500	0.465	93	5.5	20	70- 130	
Trichloroethene	0.500	0.477	95	5.2	20	58- 141	
Vinyl chloride	0.500	0.663	133	3.0	20	51- 133	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 10 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

670 18 SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DJ6X8101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: 5082203.D

Lot Number: C0H170113

Date Analyzed: 08/22/00

Time Analyzed: 07:41

Matrix: SOLID

Date Extracted:08/22/00

GC Column: ID: .00

Extraction Method: 1311/5030B

Instrument ID: HP5

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DHX40102	5082207.D	08/22/00	09:18
02	LAB MS/MSD	DHX4011E S	5082211.D	08/22/00	10:56
03	LAB MS/MSD	DHX4011F D	5082212.D	08/22/00	11:20
04	DF/S1/0228/GRAB/006	DJ0QL102	5082206.D	08/22/00	08:53
05	CHECK SAMPLE	DJ748101 C	5082210.D	08/22/00	10:31
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C0H220000 106
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 08/16/00
Work Order: DJ6X8101 Date Extracted:08/22/00
Dilution factor: 1 Date Analyzed: 08/22/00
Moisture %:NA

QC Batch: 0235134

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene	0.050	U
79-01-6	Trichloroethene	0.050	U
75-01-4	Vinyl chloride	0.050	U

670 20 VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID (Standard): CC50822 Date Analyzed: 08/22/00

Instrument ID: HP5 Time Analyzed: 0550

GC Column: DB 624 ID: 0.20 (mm) Heated Purge: (Y/N) N

		IS1 (CBZ) AREA #	RT #	IS2 (DCB) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	146944	9.97	224422	12.27	648101	6.88
	UPPER LIMIT	293888	10.17	448844	12.47	1296202	7.08
	LOWER LIMIT	73472	9.77	112211	12.07	324051	6.68
	EPA SAMPLE NO.						
01	INTRA-LAB BL	143051	9.96	190736	12.28	617428	6.88
02	DF/S1/0228/G	140970	9.96	176785	12.28	636115	6.89
03	INTRA-LAB CH	145916	9.97	197376	12.27	635208	6.88
04							
05							
06							
07							
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09							
10							
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15							
16							
17							
18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.20 minutes of internal standard RT
RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

GC/MS SEMIVOLATILE SUMMARY

UXB INTERNATIONAL

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C0H170113 001
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL Date Received: 08/17/00
Work Order: DJ0QL103 Date Extracted:08/21/00
Dilution factor: 1 Date Analyzed: 08/24/00
Moisture %:20

QC Batch: 0235112

Client Sample Id: DF/S1/0228/GRAB/006

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C0H220000 112
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL Date Received: 08/16/00
Work Order: DJ700102 Date Extracted:08/21/00
Dilution factor: 1 Date Analyzed: 08/23/00
Moisture %:NA

QC Batch: 0235112

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.186	
121-14-2	2,4-Dinitrotoluene	0.155	
118-74-1	Hexachlorobenzene	0.182	
87-68-3	Hexachlorobutadiene	0.171	
67-72-1	Hexachloroethane	0.200	
98-95-3	Nitrobenzene	0.189	
87-86-5	Pentachlorophenol	0.192	
110-86-1	Pyridine	0.122	
95-95-4	2,4,5-Trichlorophenol	0.181	
88-06-2	2,4,6-Trichlorophenol	0.173	
1319-77-3	Cresols (total)	0.607	

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0H170113

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	INTRA-LAB QC	59	53	92	52	61	67	00
02	DF/S1/0228/GRAB/006	55	54	94	47	54	68	00
03	METHOD BLK. DJ700101	66	64	100	57	70	60	00
04	LCS DJ700102	76	75	100	69	77	68	00
05	LAB MS/MSD D	43	43	86	36	43	63	00
06	LAB MS/MSD S	46	46	94	39	47	69	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(32-112)
SRG02	= 2-Fluorobiphenyl	(30-110)
SRG03	= Terphenyl-d14	(10-144)
SRG04	= 2-Fluorophenol	(13-110)
SRG05	= Phenol-d5	(10-113)
SRG06	= 2,4,6-Tribromophenol	(21-122)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Lot #: C0H220000 WO #: DJ700102
BATCH: 0235112

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.186	74	28- 110	
2,4-Dinitrotoluene	0.250	0.155	62	47- 131	
Hexachlorobenzene	0.250	0.182	73	57- 128	
Hexachlorobutadiene	0.250	0.171	68	36- 116	
Hexachloroethane	0.250	0.200	80	30- 110	
Nitrobenzene	0.250	0.189	76	45- 130	
Pentachlorophenol	0.250	0.192	77	10- 140	
Pyridine	0.250	0.122	49	10- 148	
2,4,5-Trichlorophenol	0.250	0.181	72	41- 125	
2,4,6-Trichlorophenol	0.250	0.173	69	46- 135	
Cresols (total)	0.750	0.607	81	29- 144	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

670 26 SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0H160154 WO #: DHX4011C
BATCH: 0235112

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	ND	0.107	43	18- 110	
2,4-Dinitrotoluene	0.250	ND	0.136	54	31- 131	
Hexachlorobenzene	0.250	ND	0.176	71	36- 132	
Hexachlorobutadiene	0.250	ND	0.103	41	18- 116	
Hexachloroethane	0.250	ND	0.102	41	18- 110	
Nitrobenzene	0.250	ND	0.119	48	10- 211	
Pentachlorophenol	0.250	ND	0.190	76	10- 140	
Pyridine	0.250	ND	0.124	50	10- 148	
2,4,5-Trichlorophenol	0.250	ND	0.143	57	24- 143	
2,4,6-Trichlorophenol	0.250	ND	0.140	56	36- 135	
Cresols (total)	0.750	ND	0.391	52	25- 144	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0H160154 WO #: DHX4011D
BATCH: 0235112

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.100	40	6.6		36	18- 110	
2,4-Dinitrotoluene	0.250	0.120	48	12		32	31- 131	
Hexachlorobenzene	0.250	0.165	66	6.4		22	36- 132	
Hexachlorobutadiene	0.250	0.0968	39	6.3		32	18- 116	
Hexachloroethane	0.250	0.0960	38	6.0		33	18- 110	
Nitrobenzene	0.250	0.111	44	7.0		50	10- 211	
Pentachlorophenol	0.250	0.173	69	8.9		56	10- 140	
Pyridine	0.250	0.114	45	9.1		65	10- 148	
2,4,5-Trichlorophenol	0.250	0.135	54	5.8		22	24- 143	
2,4,6-Trichlorophenol	0.250	0.130	52	7.2		27	36- 135	
Cresols (total)	0.750	0.355	47	9.6		33	25- 144	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

670 28

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DJ700101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: S0823002.

Lot Number: C0H170113

Date Analyzed: 08/23/00

Time Analyzed: 23:32

Matrix: SOLID

Date Extracted: 08/21/00

GC Column: DB5MS ID: .25

Extraction Method: 1311/3520C

Instrument ID: 71

Level: (low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DHX40103	S0825021.	08/25/00	19:58
02	LAB MS/MSD	DHX4011C S	S0824001.	08/24/00	18:56
03	LAB MS/MSD	DHX4011D D	S0824002.	08/24/00	19:30
04	LF/S1/0228/GRAB/006	DJ0QL103	S0824005.	08/24/00	21:12
05	CHECK SAMPLE	DJ700102 C	S0823001.	08/23/00	22:58
06					
07					
08					
09					
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21					
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23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C0H220000 112
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL Date Received: 08/16/00
Work Order: DJ700101 Date Extracted:08/21/00
Dilution factor: 1 Date Analyzed: 08/23/00
Moisture %:NA

QC Batch: 0235112

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

670 30

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID (Standard): S0823CC2 Date Analyzed: 08/23/00

Instrument ID: 71 Time Analyzed: 1935

	CLIENT SAMPLE NO.	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	147014	5.23	543040	6.80	257929	9.90
	UPPER LIMIT	294028	5.73	1086080	7.30	515858	10.40
	LOWER LIMIT	73507	4.73	271520	6.30	128965	9.40
01	INTRA-LAB CH	96216	5.24	397562	6.82	191210	9.93
02	INTRA-LAB BL	89960	5.25	380795	6.82	180111	9.93
03							
04							
05							
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20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID (Standard): S0823CC2 Date Analyzed: 08/23/00

Instrument ID: 71 Time Analyzed: 1935

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	367100	13.24	428185	19.91	372130	23.29
	UPPER LIMIT	734200	13.74	856370	20.41	744260	23.79
	LOWER LIMIT	183550	12.74	214093	19.41	186065	22.79
	CLIENT SAMPLE NO.						
01	INTRA-LAB CH	282814	13.27	261450	19.94	267824	23.32
02	INTRA-LAB BL	268738	13.28	254204	19.94	250103	23.32
03							
04							
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21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID (Standard): S0824CCC Date Analyzed: 08/24/00

Instrument ID: 71 Time Analyzed: 1530

	CLIENT SAMPLE NO.	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	197135	5.15	716872	6.71	383278	9.80
	UPPER LIMIT	394270	5.65	1433744	7.21	766556	10.30
	LOWER LIMIT	98568	4.65	358436	6.21	191639	9.30
01	DF/S1/0228/G	247526	5.16	921037	6.72	497429	9.79
02							
03							
04							
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20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID (Standard): S0824CCC Date Analyzed: 08/24/00

Instrument ID: 71 Time Analyzed: 1530

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	652627		13.12		712357		19.78		607120		23.15	
	UPPER LIMIT	1305254		13.62		1424714		20.28		1214240		23.65	
	LOWER LIMIT	326314		12.62		356179		19.28		303560		22.65	
	CLIENT SAMPLE NO.												
01	DF/S1/0228/G	844110		13.12		824467		19.78		778808		23.14	
02													
03													
04													
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20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

PESTICIDE SUMMARY

UXB INTERNATIONAL

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:C0H170113 001

Sample WT/Vol: 100 / mL
Work Order: DJ0QL104
Dilution factor: 1
Moisture %:20

Date Received: 08/17/00
Date Extracted:08/21/00
Date Analyzed: 08/24/00

QC Batch: 0234434

Client Sample Id: DF/S1/0228/GRAB/006

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

FORM I

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:C0H210000 434

Sample WT/Vol: 100 / mL
Work Order: DJ6M5102
Dilution factor: 1
Moisture %:NA

Date Received: 08/16/00
Date Extracted:08/21/00
Date Analyzed: 08/24/00

QC Batch: 0234434

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00224	
76-44-8	Heptachlor	0.00233	
1024-57-3	Heptachlor epoxide	0.00238	
58-89-9	Lindane	0.00169	
72-43-5	Methoxychlor	0.00249	

FORM I

SW846 8081A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client. UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0H170113

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	~~INTRA LAB QC~~ DF8/25/00	95	88	00
02	DF/S1/0228/GRAB/006	121	53	00
03	METHOD BLK. DJ6M5101	100	89	00
04	LCS DJ6M5102	99	90	00
05	~~LAB MS/MSD D~~	97	87	00
06	~~LAB MS/MSD S~~ DF 8/25/00	96	86	00

SURROGATES		QC LIMITS
SRG01	= Decachlorobiphenyl	(10-147)
SRG02	= Tetrachloro-m-xylene	(39-130)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

670 38 SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Lot #: C0H210000 WO #: DJ6M5102
BATCH: 0234434

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Lindane	0.00250	0.00169	68	49 - 137	
Heptachlor	0.00250	0.00233	93	57 - 124	
Heptachlor epoxide	0.00250	0.00238	95	53 - 135	
Endrin	0.00250	0.00224	90	46 - 137	
Methoxychlor	0.00250	0.00249	100	12 - 154	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

670 40 SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C0H160154 WO #: DHX4011A
BATCH: 0234434

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Lindane	0.00250	0.00164	65	1.4	22	30- 148	
Heptachlor	0.00250	0.00228	91	0.66	32	25- 135	
Heptachlor epoxide	0.00250	0.00233	93	2.2	31	38- 138	
Endrin	0.00250	0.00232	93	0.85	40	28- 148	
Methoxychlor	0.00250	0.00247	99	0.12	29	13- 154	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot. #: C0H160154 WO #: DHX40119
BATCH: 0234434

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
Lindane	0.00250	ND	0.00161	64	30- 148	
Heptachlor	0.00250	ND	0.00226	91	25- 135	
Heptachlor epoxide	0.00250	ND	0.00228	91	38- 138	
Endrin	0.00250	ND	0.00234	94	28- 148	
Methoxychlor	0.00250	ND	0.00247	99	13- 154	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.: DJ6M5101

SW846 8081A METHOD BLANK SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D-B5582.d

Lot Number: C0H170113

Matrix: SOLID

Extraction Method: 1311/3510

Date Extracted: 08/21/00

Date Analyzed(1): 08/24/00

Date Analyzed(2): N/A

Time Analyzed(1): 02:37

Time Analyzed(2): N/A

Instrument ID(1): G/H

Instrument ID(2): N/A

GC Column(1): DB608/1701 ID: 053

GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	~~INTRA LAB QC~~	DHX40104	08/24/00	N/A
02	LAB MS/MSD 08/25/00	DHX4011A D	08/24/00	N/A
03	~~LAB MS/MSD~~	DHX40119 S	08/24/00	N/A
04	DF/S1/0228/GRAB/006	DJ0QL104	08/24/00	N/A
05	CHECK SAMPLE	DJ6M5102 C	08/24/00	N/A
06				
07				
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14				
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16				
17				
18				
19				
20				

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name·Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method. SW846 8081A
Pesticides (8081A)

Lab Sample ID:C0H210000 434

Sample WT/Vol: 100 / mL
Work Order: DJ6M5101
Dilution factor: 1
Moisture %:NA

Date Received: 08/16/00
Date Extracted:08/21/00
Date Analyzed: 08/24/00

QC Batch: 0234434

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

HERBICIDE SUMMARY

UXB INTERNATIONAL

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8151A
Herbicides (8151A)

Lab Sample ID:C0H170113 001

Sample WT/Vol: 100 / mL
Work Order: DJ0QL105
Dilution factor: 1
Moisture %:20

Date Received: 08/17/00
Date Extracted:08/21/00
Date Analyzed: 08/22/00

QC Batch: 0234431

Client Sample Id: DF/S1/0228/GRAB/006

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

FORM I

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8151A
Herbicides (8151A)

Lab Sample ID:C0H210000 431

Sample WT/Vol: 100 / mL
Work Order: DJ6M3102
Dilution factor: 1
Moisture %:NA

Date Received: 08/16/00
Date Extracted:08/21/00
Date Analyzed: 08/22/00

QC Batch: 0234431

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.129	
93-72-1	2,4,5-TP (Silvex)	0.0337	

FORM I

SW846 8151A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0H170113

	CLIENT ID.	SRG01	TOT OUT
01	~~INTRA LAB QC~~	~~52~~	~~00~~
02	DF/S1/0228/GRAB/006	42	00
03	METHOD BLK. DJ6M3101	82	00
04	LCS DJ6M3102	93	00
05	~~LAB MS/MSD D~~	~~48~~	~~00~~
06	~~LAB MS/MSD S~~	~~52~~	~~00~~

JD 8/25/00

SURROGATES	QC LIMITS
SRG01 = DCAA	(42-125)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Lot #: C0H210000 WO #: DJ6M3102
BATCH: 0234431

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
2,4-D	0.160	0.129	81	28 - 136	
2,4,5-TP (Silvex)	0.0400	0.0337	84	50 - 128	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

670 48 SW846 8151A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C0H160154 WO #: DHX40117
BATCH: 0234431

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
2,4-D	0.160	ND	0.121	76	35- 133	
2,4,5-TP (Silvex)	0.0400	ND	0.0311	78	50- 131	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8151A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C0H160154 WO #: DHX40118
BATCH: 0234431

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
2,4-D	0.160	0.120	75	1.3	20	35- 133	
2,4,5-TP (Silvex)	0.0400	0.0305	76	1.8	20	50- 131	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

670 50 SW846 8151A METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DJ6M3101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: A-A50304.

Lot Number: C0H170113

Matrix: SOLID

Extraction Method:

Date Extracted: 08/21/00

Date Analyzed(1): 08/22/00

Date Analyzed(2): N/A

Time Analyzed(1): 19:15

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

GC Column(1): DB5/DB1701 ID: 053

GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	~~INTRA-LAB QC~~	~~DHX40105~~	~~08/22/00~~	~~N/A~~
02	~~LAB MS/MSD~~	~~DHX40117 S~~	~~08/22/00~~	~~N/A~~
03	~~LAB MS/MSD~~	~~DHX40118 D~~	~~08/22/00~~	~~N/A~~
04	LF/S1/0228/GRAB/006	DJ0QL105	08/22/00	N/A
05	CHECK SAMPLE	DJ6M3102 C	08/22/00	N/A
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

JD 8/25/00

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8151A
Herbicides (8151A)

Lab Sample ID:C0H210000 431

Sample WT/Vol: 100 / mL
Work Order: DJ6M3101
Dilution factor: 1
Moisture %:NA

Date Received: 08/16/00
Date Extracted:08/21/00
Date Analyzed: 08/22/00

QC Batch: 0234431

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

FORM I

METALS SUMMARY

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DJ0QL **Client ID:** DF/S1/0228/GRAB/006

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 0231154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 19.77

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	1.3	8.8		1	ICPST	8/21/00	14:32

Comments: Lot#: C0H170113 Sample#: 1

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST **Units:** ug/L

Chart Number: T00821B.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 8/21/00 12:03 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	10	2.6	U								

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST **Units:** ug/L

Chart Number: T00821B.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 8/21/00 12:53 PM Found	Q	CCB2 8/21/00 1:42 PM Found	Q	CCB3 8/21/00 2:20 PM Found	Q	CCB4 8/21/00 2:53 PM Found	Q	Found	Q
Arsenic	189.042	10	2.6	U	2.6	U	2.6	U	2.6	U		

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DJ361B

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 023I154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.26	1.0	0.26	U	1	ICPST	8/21/00	14:24

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DJ0QLS

Original Sample ID: DJ0QL **Client ID:** DF/S1/0228/GRAB/006S

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 0231154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 19.77

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	8.8		232		249.28	89.5	1	1	ICPST	8/21/00	14:32	8/21/00	14:41

Comments:

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

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Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DJ0QLD

Original Sample ID: DJ0QL **Client ID:** DF/S1/0228/GRAB/006D

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 0231154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 19.77

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Arsenic	189.0	8.8		236		249.28	91.1	1	1	ICPST	8/21/00	14:32	8/21/00	14:45

Comments:

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DJ0QLD

Matrix Spike Sample ID: DJ0QLS **Client ID:** DF/S1/0228/GRAB/006D

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 0231154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 19.77

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Arsenic	189.042	232		236		1.8 %	1	1	ICPST	8/21/00	14:41	8/21/00	14:45

Comments:

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DJ361C

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 0231154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	200	205	102.3		80-120	1	ICPST	8/21/00	14:28

Comments:

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL

Form 7 Equivalent

TCLP METALS SUMMARY

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DJ0QLT **Client ID:** DF/S1/0228/GRAB/006

Matrix: TCLP **Units:** mg/L **Prep Date:** 8/21/00 **Prep Batch:** 0234102

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.00035		1	CVAA	8/21/00	11:08

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DJ0QLT **Client ID:** DF/S1/0228/GRAB/006

Matrix: TCLP **Units:** mg/L **Prep Date:** 8/21/00 **Prep Batch:** 0234110

Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	**193.7**	**0.030**	**0.50**	**0.19**	**B**	**1**	**ICP**	**8/22/00**	**8:54**
Barium	**493.41**	**0.00041**	**10.0**	**2.4**	**B**	**1**	**ICP**	**8/22/00**	**8:54**
Cadmium	**228.80**	**0.0028**	**0.10**	**0.070**	**B**	**1**	**ICP**	**8/22/00**	**8:54**
Chromium	**267.72**	**0.0038**	**0.50**	**0.040**	**B**	**1**	**ICP**	**8/22/00**	**8:54**
Lead	**220.35**	**0.025**	**0.50**	**16.8**		**1**	**ICP**	**8/22/00**	**8:54**
Selenium	196.03	0.067	0.25	0.067	U	1	ICP	8/22/00	8:54
Silver	328.07	0.0031	0.50	0.0031	U	1	ICP	8/22/00	8:54

Comments: C0H170113001

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: 0821HGA.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 8/21/00 9:59 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U								

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICP **Units:** ug/L

Chart Number: J00822A.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 8/22/00 8:07 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	193.696	500	30.3	U								
Barium	493.409	10000	0.4	U								
Cadmium	228.802	100	2.8	U								
Chromium	267.716	500	3.9	B								
Lead	220.353	500	24.6	U								
Selenium	196.026	250	67.4	U								
Silver	328.068	500	3.1	U								

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: 0821HGA.PRN

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 8/21/00 10:02 AM Found	Q	CCB2 8/21/00 10:23 AM Found	Q	CCB3 8/21/00 10:42 AM Found	Q	CCB4 8/21/00 11:03 AM Found	Q	CCB5 8/21/00 11:25 AM Found	Q
Mercury	253.7	0.2	0.0	U	0.0	U	0.0	U	0.0	U	0.0	U

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICP **Units:** ug/L

Chart Number: J00822A.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 8/22/00 8:47 AM Found	Q	CCB2 8/22/00 9.09 AM Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	193.696	500	30.3	U	30.3	U						
Barium	493.409	10000	**0.6**	**B**	0.4	U						
Cadmium	228.802	100	2.8	U	**3.2**	**B**						
Chromium	267.716	500	**3.8**	**U**	**3.8**	**U**						
Lead	220.353	500	24.6	U	24.6	U						
Selenium	196.026	250	67.4	U	67.4	U						
Silver	328.068	500	3.1	U	3.1	U						

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DJ3ACBT

Matrix: TCLP **Units:** mg/L **Prep Date:** 8/21/00 **Prep Batch:** 0234102

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000070	B	1	CVAA	8/21/00	10:54

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DJ5H9BT

Matrix: TCLP **Units:** mg/L **Prep Date:** 8/21/00 **Prep Batch:** 0234102

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000062	B	1	CVAA	8/21/00	10:51

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DJ3ACBT

Matrix: TCLP **Units:** mg/L **Prep Date:** 8/21/00 **Prep Batch:** 0234110

Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	**193.696**	**0.030**	**0.50**	**0.16**	**B**	**1**	**ICP**	**8/22/00**	**8:22**
Barium	**493.409**	**0.00041**	**10.0**	**0.0020**	**B**	**1**	**ICP**	**8/22/00**	**8:22**
Cadmium	228.802	0.0028	0.10	0.0028	U	1	ICP	8/22/00	8:22
Chromium	267.716	0.0038	0.50	0.0038	U	1	ICP	8/22/00	8:22
Lead	220.353	0.025	0.50	0.025	U	1	ICP	8/22/00	8:22
Selenium	196.026	0.067	0.25	0.067	U	1	ICP	8/22/00	8:22
Silver	328.068	0.0031	0.50	0.0031	U	1	ICP	8/22/00	8:22

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DJ5HPBT

Matrix: TCLP **Units:** mg/L **Prep Date:** 8/21/00 **Prep Batch:** 0234110

Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.696	0.030	0.50	0.030	U	1	ICP	8/22/00	8:19
Barium	493.409	0.00041	10.0	0.00041	U	1	ICP	8/22/00	8:19
Cadmium	228.802	0.0028	0.10	0.0028	U	1	ICP	8/22/00	8:19
Chromium	267.716	0.0038	0.50	0.0038	U	1	ICP	8/22/00	8:19
Lead	220.353	0.025	0.50	0.025	U	1	ICP	8/22/00	8:19
Selenium	196.026	0.067	0.25	0.067	U	1	ICP	8/22/00	8:19
Silver	328.068	0.0031	0.50	0.0031	U	1	ICP	8/22/00	8:19

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DJ5H9CT

Matrix: TCLP **Units:** mg/L **Prep Date:** 8/21/00 **Prep Batch:** 0234102

Weight: NA **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.0025	0.0027	108.0		80-120	1	CVAA	8/21/00	10:53

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DJ5HPCT

Matrix: TCLP **Units:** mg/L **Prep Date:** 8/21/00 **Prep Batch:** 0234110

Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	193.696	2.0	2.1	104.6		80-120	1	ICP	8/22/00	8:25
Barium	493.409	2.0	2.1	103.9	B	80-120	1	ICP	8/22/00	8:25
Cadmium	228.802	0.050	0.048	95.7	B	80-120	1	ICP	8/22/00	8:25
Chromium	267.716	0.20	0.21	106.3	B	80-120	1	ICP	8/22/00	8:25
Lead	220.353	0.50	0.51	101.6		80-120	1	ICP	8/22/00	8:25
Selenium	196.026	2.0	2.1	103.1		80-120	1	ICP	8/22/00	8:25
Silver	328.068	0.050	0.047	93.3	B	80-120	1	ICP	8/22/00	8:25

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

GENERAL CHEMISTRY SUMMARY

UXB INTERNATIONAL

Client Sample ID: DF/S1/0228/GRAB/006

General Chemistry

Lot-Sample #...: C0H170113-001 Work Order #...: DJ0QL Matrix.....: SOLID
Date Sampled...: 08/16/00 Date Received..: 08/17/00
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	7.6		No Units	SW846 9045C	08/17/00	0230492
	Dilution Factor: 1			MS Run #.....: 0230259		
Ignitability	NO	--	No Units	SW846 SECTION 7.1	08/21/00	0234115
	Dilution Factor: 1			MS Run #.....: 0234016		
Percent Solids	80.2		%	MCAWW 160.3 MOD	08/17-08/18/00	0230171
	Dilution Factor: 1			MS Run #.....: 0230060		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	08/22/00	0235467
	Dilution Factor: 1			MS Run #.....: 0235216		
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	08/22/00	0235465
	Dilution Factor: 1			MS Run #.....: 0235215		

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0H170113 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		Work Order #: DJ8WM101		MB Lot-Sample #:	A0H220000-467	
	ND	200	mg/kg	SW846 7.3.3	08/22/00	0235467
		Dilution Factor: 1				
Reactive Sulfide		Work Order #: DJ8WL101		MB Lot-Sample #:	A0H220000-465	
	ND	200	mg/kg	SW846 7.3.4	08/22/00	0235465
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0H170113 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH		Work Order #: DJ3X0101	LCS Lot-Sample#: C0H170000-492		
	101	(85 - 115)	SW846 9045C	08/17/00	0230492
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0H170113 **Work Order #...:** DJ0QL-SMP DJ0QL-DUP **Matrix.....:** SOLID

Date Sampled...: 08/16/00 **Date Received..:** 08/17/00

% Moisture.....: 20

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: C0H170113-001		
	80.2	80.0	%	0.33	(0-20)	MCAWW 160.3 MOD	08/17-08/18/00	0230171
			Dilution Factor: 1					
			Prep Date.....: 0230060			Analysis Date..:	Prep Batch #...:	
pH						SD Lot-Sample #: C0H170113-001		
	7.6	7.5	No Units	0.53	(0-20)	SW846 9045C	08/17/00	0230492
			Dilution Factor: 1					
			Prep Date.....: 0230259			Analysis Date..:	Prep Batch #...:	
Ignitability						SD Lot-Sample #: C0H170113-001		
			No Units	0	(0-0.0)	SW846 SECTION 7.1	08/21/00	0234115
			Dilution Factor: 1					
			Prep Date.....: 0234016			Analysis Date..:	Prep Batch #...:	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0H170113 **Work Order #...:** DJ17R-SMP DJ17R-DUP **Matrix.....:** SOLID

Date Sampled...: 08/16/00 **Date Received..:** 08/17/00

% Moisture.....: 11

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide						SD Lot-Sample #: A0H170161-008		
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.3	08/22/00	0235467
		Dilution Factor: 1						
		Prep Date.....: 0235216				Analysis Date..:		Prep Batch #...:
Reactive Sulfide						SD Lot-Sample #: A0H170161-008		
	ND	ND	mg/kg	43	(0-20)	SW846 7.3.4	08/22/00	0235465
		Dilution Factor: 1						
		Prep Date.....: 0235215				Analysis Date..:		Prep Batch #...:

670 80

GC/MS VOLATILE DATA

GC/MS VOLATILE
QC SUMMARY

670 82

SW846 8260B SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lct #: C0H170113

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
01	INTRA-LAB QC	92	84	89	89	00
02	DF/S1/0228/GRAB/006	93	88	86	85	00
03	METHOD BLK. DJ6X8101	91	94	93	90	00
04	LCS DJ748101	91	92	97	98	00
05	LAB MS/MSD D	90	93	94	97	00
06	LAB MS/MSD S	91	93	97	98	00

SURROGATES		QC LIMITS
SRG01	= Toluene-d8	(78-111)
SRG02	= 4-Bromofluorobenzene	(80-114)
SRG03	= 1,2-Dichloroethane-d4	(77-120)
SRG04	= Dibromofluoromethane	(78-110)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Lot #: C0H220000 WO #: DJ748101
BATCH: 0235134

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Benzene	0.500	0.441	88	79- 116	
2-Butanone	0.500	0.201	40	35- 156	
Carbon tetrachloride	0.500	0.479	96	72- 133	
Chlorobenzene	0.500	0.418	84	81- 115	
Chloroform	0.500	0.454	91	81- 122	
1,2-Dichloroethane	0.500	0.441	88	73- 127	
1,1-Dichloroethene	0.500	0.538	108	65- 119	
Tetrachloroethene	0.500	0.432	86	78- 131	
Trichloroethene	0.500	0.446	89	80- 122	
Vinyl chloride	0.500	0.563	113	53- 134	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

670 84 SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0H160154 WO #: DHX4011E
BATCH: 0235134

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
Benzene	0.500	ND	0.440	88	73- 123	
2-Butanone	0.500	ND	0.212	42	10- 151	
Carbon tetrachloride	0.500	ND	0.512	102	61- 143	
Chlorobenzene	0.500	ND	0.423	85	70- 122	
Chloroform	0.500	ND	0.471	94	65- 131	
1,2-Dichloroethane	0.500	ND	0.448	90	67- 132	
1,1-Dichloroethene	0.500	ND	0.572	114	57- 138	
Tetrachloroethene	0.500	ND	0.440	88	70- 130	
Trichloroethene	0.500	ND	0.453	91	58- 141	
Vinyl chloride	0.500	ND	0.643	129	51- 133	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0H160154 WO #: DHX4011F
BATCH: 0235134

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Carbon tetrachloride	0.500	0.526	105	2.9		20	61- 143	
Chlorobenzene	0.500	0.446	89	5.4		20	70- 122	
Benzene	0.500	0.473	95	7.2		20	73- 123	
2-Butanone	0.500	0.206	41	2.8		34	10- 151	
Chloroform	0.500	0.488	98	3.6		20	65- 131	
1,2-Dichloroethane	0.500	0.463	93	3.2		20	67- 132	
1,1-Dichloroethene	0.500	0.594	119	3.8		20	57- 138	
Tetrachloroethene	0.500	0.465	93	5.5		20	70- 130	
Trichloroethene	0.500	0.477	95	5.2		20	58- 141	
Vinyl chloride	0.500	0.663	133	3.0		20	51- 133	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 10 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

670 86 SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DJ6X8101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT — SDG Number:

Lab File ID: 5082203.D — Lot Number: C0H170113

Date Analyzed: 08/22/00 — Time Analyzed: 07:41

Matrix: SOLID — Date Extracted:08/22/00

GC Column: ID: .00 — Extraction Method: 1311/5030B

Instrument ID: HP5 — Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DHX40102	5082207.D	08/22/00	09:18
02	LAB MS/MSD	DHX4011E S	5082211.D	08/22/00	10:56
03	LAB MS/MSD	DHX4011F D	5082212.D	08/22/00	11:20
04	DF/S1/0228/GRAB/006	DJ0QL102	5082206.D	08/22/00	08:53
05	CHECK SAMPLE	DJ748101 C	5082210.D	08/22/00	10:31
06					
07					
08					
09					
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30					

COMMENTS:

FORM IV

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

670 87

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: METHODS

Lab File ID: BF50802K BFB Injection Date: 08/02/00

Instrument ID: HP5 BFB Injection Time: 1308

GC Column: DB624 20M ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.6
75	30.0 - 60.0% of mass 95	51.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	50.0 - 100.0% of mass 95	81.9
175	5.0 - 9.0% of mass 174	5.6 (6.8)1
176	95.0 - 101.0% of mass 174	78.3 (95.6)1
177	5.0 - 9.0% of mass 176	5.1 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSYD50	VSTD50	CC50802K	08/02/00	1338
02	VSTD100	VSTD100	1D50802K	08/02/00	2014
03	VSTD200	VSTD200	1E50803K	08/02/00	2041
04	VSTD5	VSTD5	2A50802K	08/02/00	2120
05	VSTD20	VSTD20	2B50802K	08/02/00	2147
06					
07					
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22					

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

670 88 BROMOFLUOROBENZENE (BFB)

Lab Name: STL PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID: BF50822 BFB Injection Date: 08/22/00

Instrument ID: HP5 BFB Injection Time: 0525

GC Column: DB624 20M ID: 0.20 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	46.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.6 (0.8)1
174	50.0 - 100.0% of mass 95	82.9
175	5.0 - 9.0% of mass 174	6.0 (7.2)1
176	95.0 - 101.0% of mass 174	79.1 (95.5)1
177	5.0 - 9.0% of mass 176	5.6 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	CC50822	08/22/00	0550
02	INTRA-LAB BL	DJ6X8101	5082203	08/22/00	0741
03	DF/S1/0228/G	DJ0QL102	5082206	08/22/00	0853
04	INTRA-LAB CH	DJ748101	5082210	08/22/00	1031
05					
06					
07					
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20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID (Standard): CC50822 Date Analyzed: 08/22/00

Instrument ID: HP5 Time Analyzed: 0550

GC Column: DB 624 ID: 0.20 (mm) Heated Purge: (Y/N) N

		IS1 (CBZ) AREA #	RT #	IS2 (DCB) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	146944	9.97	224422	12.27	648101	6.88
	UPPER LIMIT	293888	10.17	448844	12.47	1296202	7.08
	LOWER LIMIT	73472	9.77	112211	12.07	324051	6.68
	EPA SAMPLE NO.						
01	INTRA-LAB BL	143051	9.96	190736	12.28	617428	6.88
02	DF/S1/0228/G	140970	9.96	176785	12.28	636115	6.89
03	INTRA-LAB CH	145916	9.97	197376	12.27	635208	6.88
04							
05							
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19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.20 minutes of internal standard RT
RT LOWER LIMIT = - 0.20 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

670 90

GC/MS VOLATILE
SAMPLE DATA

UXB INTERNATIONAL

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

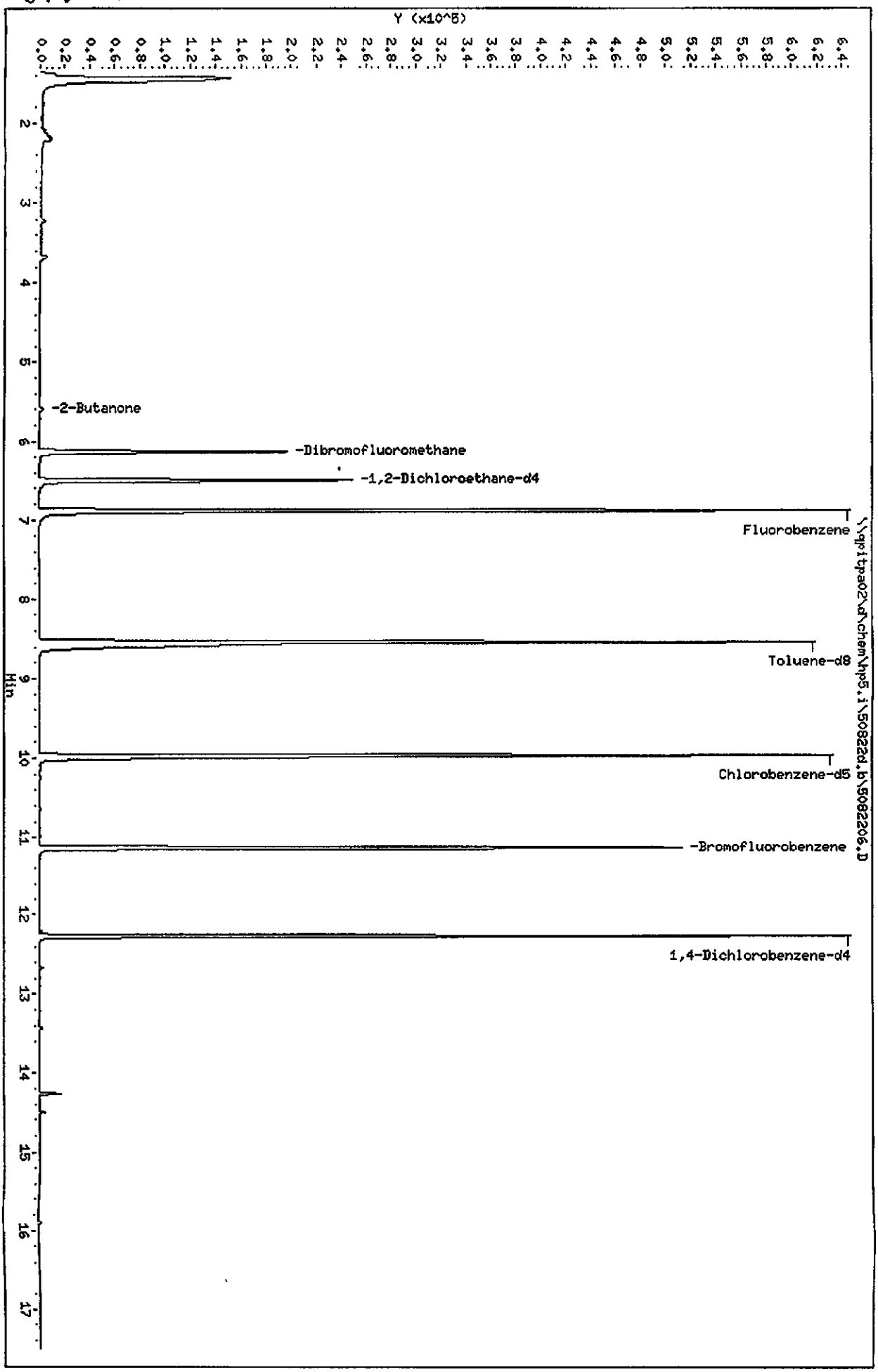
Matrix: (soil/water) SOLID Lab Sample ID:C0H170113 001
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 08/17/00
Work Order: DJ0QL102 Date Extracted:08/22/00
Dilution factor: 1 Date Analyzed: 08/22/00
Moisture %:20

QC Batch: 0235134

Client Sample Id: DF/S1/0228/GRAB/006

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.013	J
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene	0.050	U
79-01-6	Trichloroethene	0.050	U
75-01-4	Vinyl chloride	0.050	U



Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\5082206.D
Date : 22-AUG-2000 08:53
Client ID: DF/S1/0228/GRAB/006
Sample Info: c0h170113-004 (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.i
Operator: 10099
Column diameter: 0.20

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50822d.b\5082206.D
Lab Smp Id: DJ0QL102 Client Smp ID: DF/S1/0228/GRAB/006
Inj Date : 22-AUG-2000 08:53 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : c0h170113-001 (1ml/10ml)/5ml
Misc Info : dj0ql102,50822d.b,8260bh2o.m,tclp.sub
Comment :
Method : \\qpitpa02\d\chem\hp5.i\50822d.b\8260bh2o.m
Meth Date : 22-Aug-2000 06:24 gordonk Quant Type: ISTD
Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.04
Processing Host: PITPC073

1116 8/22/00

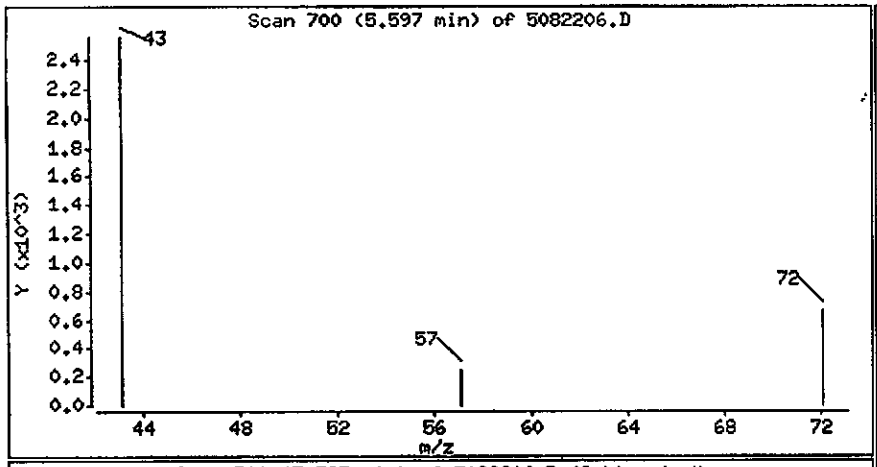
Concentration Formula: Amt * DF * 1/Vo*Vt

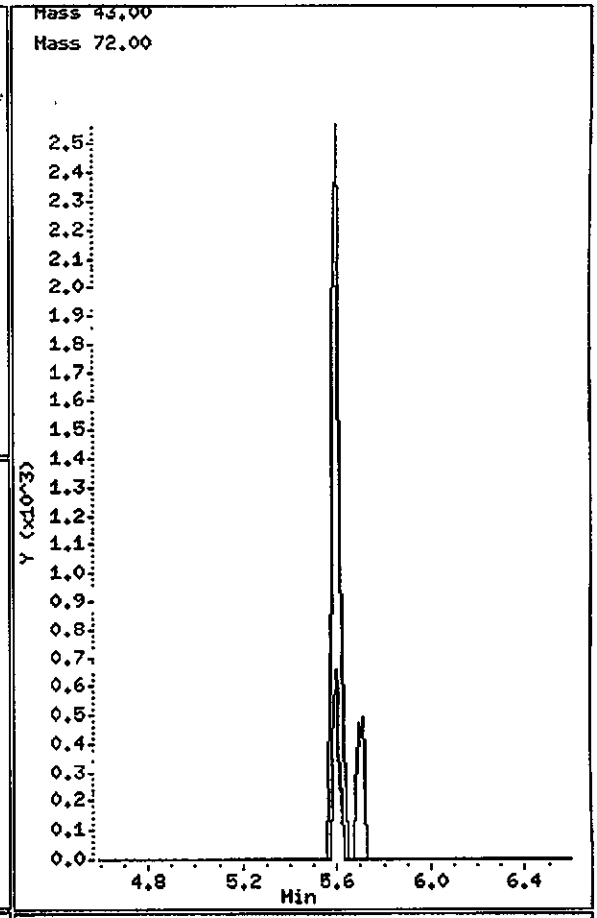
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

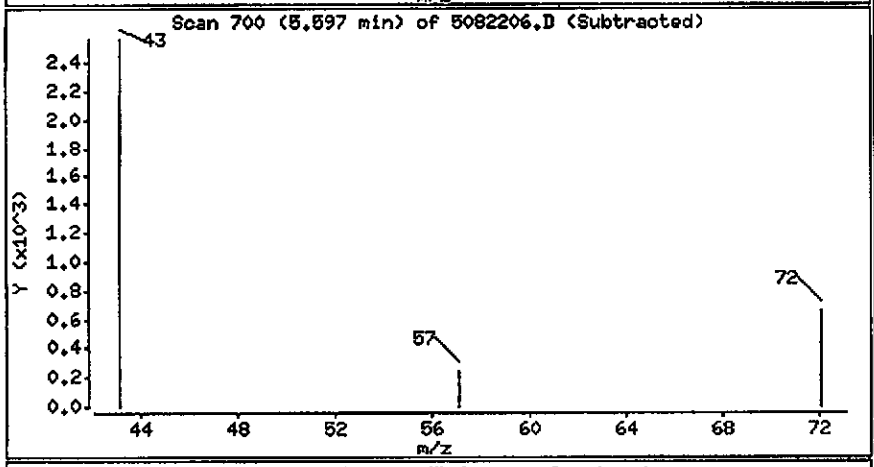
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6 886	6.881	(1 000)	636115	250.000	
* 69 Chlorobenzene-d5	119	9.964	9.965	(1.000)	140970	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.276	12.271	(1.000)	176785	250.000	
$ 39 Dibromofluoromethane	113	6.131	6.126	(0.890)	128973	212.810	42.56
$ 43 1,2-Dichloroethane-d4	65	6.496	6.485	(0.943)	167196	216.076	43.22
$ 59 Toluene-d8	98	8.541	8.535	(0 857)	604968	231 547	46.31
$ 80 Bromofluorobenzene	95	11.132	11.133	(1.117)	211302	219.721	43.94
3 Vinyl Chloride	62	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
31 2-Butanone	43	5.596	5.591	(0.813)	5706	6.25768	1.252
37 Chloroform	83	Compound Not Detected.					
41 Carbon Tetrachloride	117	Compound Not Detected.					
42 Benzene	78	Compound Not Detected.					
45 1,2-Dichloroethane	62	Compound Not Detected.					
47 Trichloroethene	130	Compound Not Detected.					
65 Tetrachloroethene	164	Compound Not Detected.					

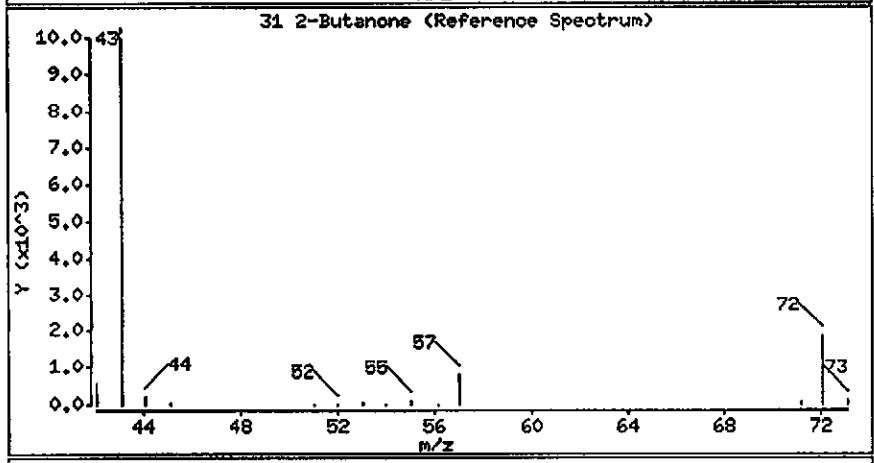
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/L)
70 Chlorobenzene	112	Compound Not Detected.					

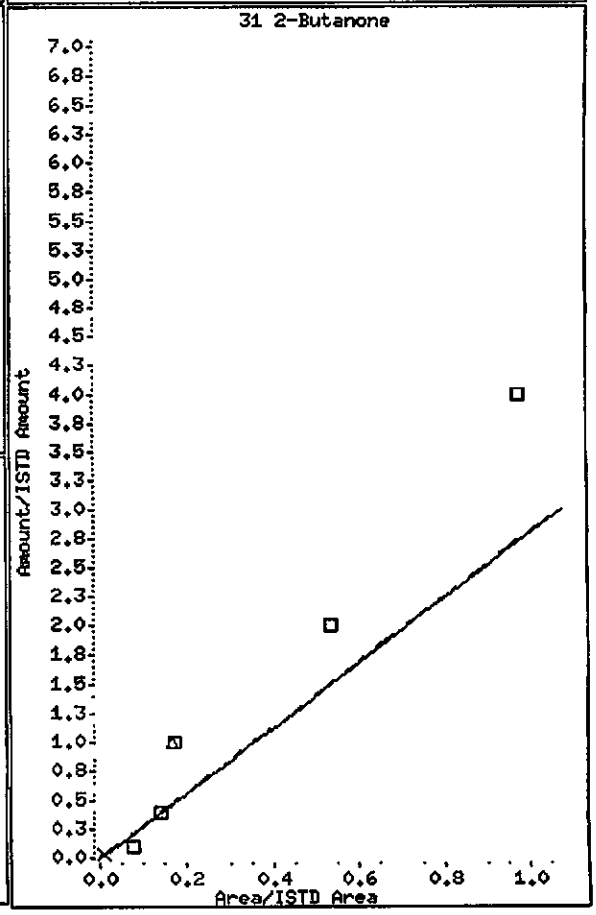
31 2-Butanone

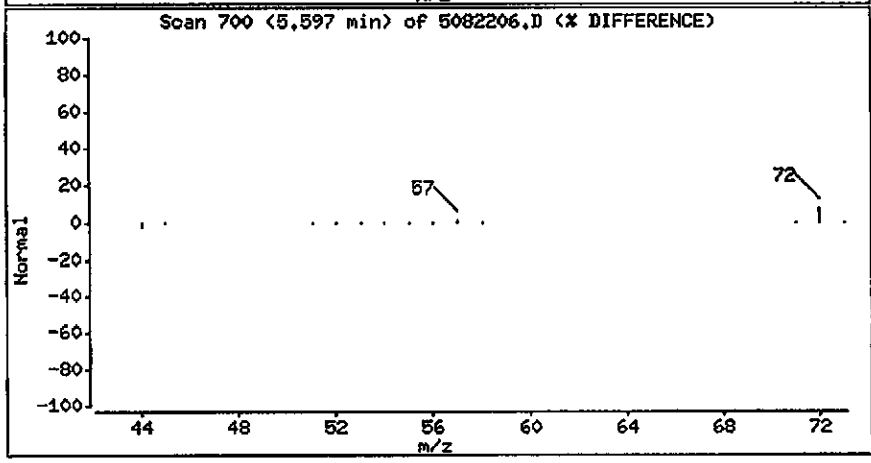












670 96

GC/MS VOLATILE
CALIBRATION DATA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: METHODS

Instrument ID: HP5 Calibration Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N Calibration Time(s): 1338 2147

GC Column: DB 624 ID: 0.20 (mm)

LAB FILE ID: RRF5 =2A50802K RRF20 =2B50802K
RRF50 =CC50802K RRF100=1D50802K RRF200=1E50803K

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.180	0.198	0.184	0.196	0.144	0.180	12.2
* Chloromethane	0.261	0.295	0.261	0.295	0.274	0.277	6.1*
Vinyl Chloride	0.259	0.290	0.258	0.282	0.230	0.264	8.9
Bromomethane	0.050	0.036	0.031	0.038	0.029	0.037	22.5
Chloroethane	0.046	0.046	0.055	0.052	0.039	0.048	12.6
Trichlorofluoromethane	0.064	0.072	0.085	0.077	0.042	0.068	23.9
1,1-Dichloroethene	0.176	0.217	0.199	0.210	0.169	0.194	10.7
Methylene Chloride	0.191	0.240	0.229	0.280	0.270	0.242	14.6
trans-1,2-Dichloroethene	0.215	0.255	0.216	0.245	0.241	0.234	7.7
* 1,1-Dichloroethane	0.398	0.468	0.416	0.484	0.451	0.443	8.1*
cis-1,2-dichloroethene	0.238	0.285	0.245	0.300	0.295	0.273	10.6
Chloroform	0.350	0.405	0.362	0.436	0.439	0.398	10.3
Bromochloromethane	0.102	0.121	0.108	0.142	0.145	0.124	16.0
1,1,1-Trichloroethane	0.296	0.364	0.323	0.365	0.340	0.338	8.7
Carbon Tetrachloride	0.234	0.293	0.259	0.292	0.263	0.268	9.3
1,2-Dichloroethane	0.300	0.339	0.316	0.411	0.395	0.352	13.9
Benzene	0.940	1.116	0.988	1.143	1.125	1.062	8.6
Trichloroethene	0.225	0.260	0.234	0.263	0.257	0.248	6.9
1,2-Dichloropropane	0.242	0.274	0.258	0.314	0.308	0.279	11.2
Bromodichloromethane	0.240	0.273	0.270	0.343	0.338	0.293	15.6
cis-1,3-Dichloropropene	0.315	0.370	0.359	0.463	0.450	0.391	16.1
Toluene	4.806	5.192	5.014	5.077	4.766	4.971	3.6
trans-1,3-Dichloropropene	1.360	1.663	1.597	1.973	1.961	1.711	15.2
1,1,2-Trichloroethane	0.928	0.994	0.922	1.150	1.141	1.027	10.9
Tetrachloroethene	0.844	0.919	0.890	0.853	0.756	0.852	7.3
Dibromochloromethane	0.722	0.882	0.856	1.112	1.131	0.941	18.7
* Chlorobenzene	3.084	3.344	3.045	3.322	3.274	3.214	4.3*
Ethylbenzene	1.657	1.880	1.730	1.839	1.729	1.767	5.1
Styrene	2.779	3.305	3.170	3.656	3.423	3.267	10.0
* Bromoform	0.408	0.509	0.526	0.762	0.758	0.593	26.9*
* 1,1,2,2-Tetrachloroethane	0.921	0.985	0.888	1.148	1.051	0.999	10.4*
1,3-Dichlorobenzene	1.537	1.598	1.445	1.532	1.529	1.528	3.6
1,4-Dichlorobenzene	1.563	1.599	1.453	1.581	1.563	1.552	3.7
1,2-Dichlorobenzene	1.461	1.514	1.371	1.503	1.415	1.453	4.1
Dibromomethane	0.129	0.144	0.135	0.185	0.180	0.155	16.8
1,2-Dibromoethane	0.891	0.990	0.924	1.210	1.183	1.040	14.2
1,1,1,2-Tetrachloroethane	0.842	0.987	0.946	1.094	1.076	0.989	10.4

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

670 98

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: METHODS

Instrument ID: HP5 Calibration Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N Calibration Time(s): 1338 2147

GC Column: DB 624 ID: 0.20 (mm)

LAB FILE ID: RRF5 =2A50802K RRF20 =2B50802K
RRF50 =CC50802K RRF100=1D50802K RRF200=1E50803K

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
1,2,3-Trichloropropane	0.285	0.308	0.277	0.361	0.353	0.317	12.1
1,2-Dibromo-3-chloropropane	0.130	0.140	0.129	0.205	0.204	0.162	24.3
2,2-Dichloropropane	0.302	0.376	0.329	0.374	0.352	0.347	9.1
1,1-Dichloropropene	0.246	0.302	0.265	0.294	0.269	0.275	8.3
1,3-Dichloropropane	1.692	1.889	1.800	2.223	2.155	1.952	11.7
n-Propylbenzene	0.884	1.044	0.911	0.891	0.843	0.915	8.4
Bromobenzene	0.839	0.939	0.822	0.873	0.839	0.862	5.4
1,3,5-Trimethylbenzene	2.230	2.653	2.395	2.388	2.207	2.375	7.5
2-Chlorotoluene	0.781	0.893	0.803	0.816	0.808	0.820	5.2
4-Chlorotoluene	0.815	0.898	0.792	0.818	0.774	0.819	5.8
tert-Butylbenzene	2.218	2.523	2.238	2.124	1.955	2.212	9.4
1,2,4-Trimethylbenzene	2.171	2.488	2.245	2.314	2.272	2.298	5.2
sec-Butylbenzene	3.531	3.945	3.553	3.168	2.883	3.416	11.9
4-Isopropyltoluene	2.580	2.921	2.684	2.455	2.274	2.583	9.4
n-Butylbenzene	2.306	2.672	2.448	2.106	1.876	2.282	13.4
1,2,4-Trichlorobenzene	0.752	0.597	0.526	0.634	0.655	0.633	13.1
Hexachlorobutadiene	0.612	0.544	0.482	0.320	0.306	0.453	30.0
Naphthalene	2.634	1.334	1.026	1.574	1.574	1.628	37.2
1,2,3-Trichlorobenzene	1.158	0.514	0.422	0.538	0.555	0.637	46.3
Acetone	0.197	0.147	0.108	0.168	0.149	0.154	21.3
Carbon Disulfide	0.455	0.586	0.772	0.689	0.595	0.619	19.2
2-Butanone	0.762	0.343	0.173	0.268	0.244	0.358	65.3
4-Methyl-2-Pentanone	1.062	1.490	1.182	1.862	1.772	1.474	23.9
2-Hexanone	0.734	1.026	0.809	1.360	1.268	1.039	26.4
Methyl tert-butyl ether	0.502	0.589	0.682	0.850	0.904	0.705	24.1
Isopropylbenzene	4.619	5.363	5.059	5.147	4.568	4.951	7.0
1,2-Dichloroethene (total)	0.226	0.270	0.230	0.272	0.268	0.253	9.0
Xylenes (total)	1.702	2.012	1.856	2.109	1.981	1.932	8.1
Dibromofluoromethane	0.314	0.205	0.207	0.230	0.234	0.238	18.8
1,2-Dichloroethane-d4	0.403	0.255	0.260	0.301	0.300	0.304	19.6
Toluene-d8	6.743	4.105	4.379	4.041	3.899	4.633	25.7
Bromofluorobenzene	2.397	1.447	1.534	1.581	1.568	1.705	22.9

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

INITIAL CALIBRATION REPORT

Instrument ID: hp5.i
Lab File ID: 2A50802K.D
Analysis Type: WATER

Injection Date: 02-AUG-2000 21:20
Lab Sample ID: vstd5
Method File: \\QPITPA02\D\chem\hp5.i\50802d.b

COMPOUND	%RSD
Xylenes (total)	8.1
1,2-Dichloroethene (total)	9.0
Dichlorodifluoromethane	12 2
Chloromethane	6 1
Vinyl Chloride	8.9
Bromomethane	22.5
Chloroethane	12.6
Trichlorofluoromethane	23.9
1,1-Dichloroethene	10 7
Acetone	21 3
Carbon Disulfide	19.2
Methylene Chloride	14.6
trans-1,2-Dichloroethene	7.7
Methyl tert-butyl ether	24.1
1,1-Dichloroethane	8.1
2,2-Dichloropropane	9 1
cis-1,2-dichloroethene	10.6
2-Butanone	65 3
Bromochloromethane	16.0
Chloroform	10.3
1,1,1-Trichloroethane	8.7
Dibromofluoromethane	18.8
Carbon Tetrachloride	9 3
1,1-Dichloropropene	8 3
1,2-Dichloroethane-d4	19.6
Benzene	8.6
1,2-Dichloroethane	13.9
Trichloroethene	6.9
1,2-Dichloropropane	11 2
Dibromomethane	16 8
Bromodichloromethane	15 6
cis-1,3-Dichloropropene	16 1
4-Methyl-2-Pentanone	23 9
Toluene-d8	25 7
Toluene	3.6
trans-1,3-Dichloropropene	15 2
1,1,2-Trichloroethane	10 9
Tetrachloroethene	7 3
1,3-Dichloropropane	11 7

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b/2A50802K.D
Report Date: 08/02/2000

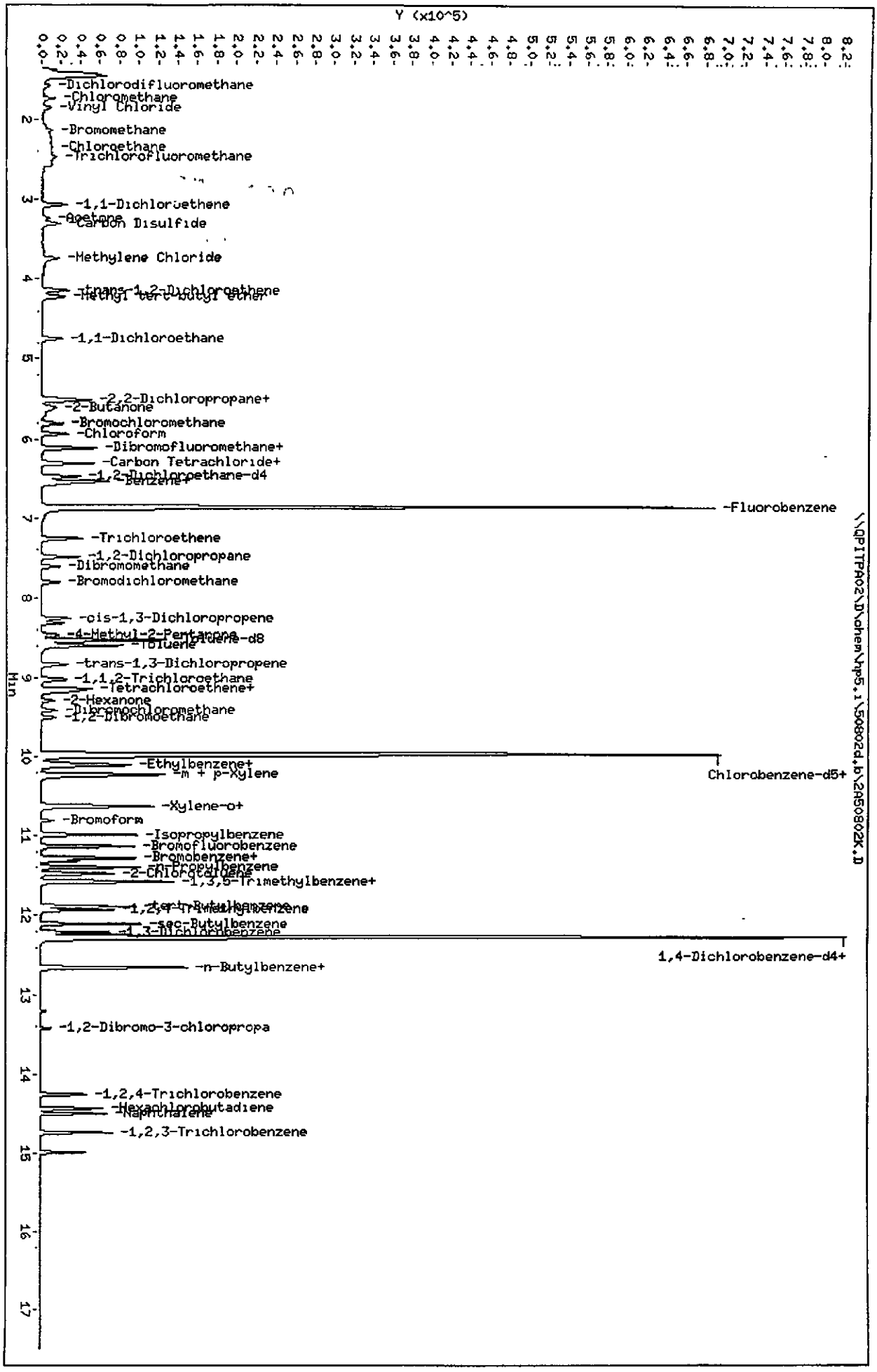
INITIAL CALIBRATION REPORT

Instrument ID: hp5.i
Lab File ID: 2A50802K.D
Analysis Type: WATER

Injection Date: 02-AUG-2000 21:20
Lab Sample ID: vstd5
Method File: \\QPITPA02\D\chem\hp5.i\50802d.b

COMPOUND	%RSD
2-Hexanone	26.4
Dibromochloromethane	18 7
1,2-Dibromoethane	14 2
Chlorobenzene	4.3
1,1,1,2-Tetrachloroethane	10.4
Ethylbenzene	5.1
m + p-Xylene	4.6
Xylene-o	8.1
Styrene	10 0
Bromoform	26 9
Isopropylbenzene	7 0
Bromofluorobenzene	22.9
1,1,2,2-Tetrachloroethane	10 4
Bromobenzene	5 4
1,2,3-Trichloropropane	12 1
n-Propylbenzene	8.4
2-Chlorotoluene	5 2
1,3,5-Trimethylbenzene	7 5
4-Chlorotoluene	5 8
tert-Butylbenzene	9.4
1,2,4-Trimethylbenzene	5.2
sec-Butylbenzene	11.9
1,3-Dichlorobenzene	3 6
4-Isopropyltoluene	9.4
1,4-Dichlorobenzene	3.7
n-Butylbenzene	13.4
1,2-Dichlorobenzene	4.1
1,2-Dibromo-3-chloropropane	24.3
1,2,4-Trichlorobenzene	13.1
Hexachlorobutadiene	30 0
Naphthalene	37 2
1,2,3-Trichlorobenzene	46 3

The average of all %RSD's in the initial calibration is 14.0



Data File: \\QPITPA02\D\chem\hp5.i\508021.b\2A508021.D
Date : 02-AUG-2000 21:20
Client ID: vstd5
Sample Info: vstd5 5ML
Purge Volume: 5.0
Column phase: DB 624

670 101

Instrument: hp5.i
Operator: 034635
Column diameter: 0.20

670 102

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50802d.b\2A50802K.D
Lab Smp Id: vstd5 Client Smp ID: vstd5
Inj Date : 02-AUG-2000 21:20 MS Autotune Date: 13-MAR-2000 09:53
Operator : 034635 Inst ID: hp5.i
Smp Info : vstd5 5ML
Misc Info : vstd5,50802d.b,8260bh2o.m,3-dwlist.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\50802d.b\8260bh2o.m
Meth Date : 02-Aug-2000 22:48 journetp Quant Type: ISTD
Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-dwlist.sub
Target Version: 4.04
Processing Host: PITPC076

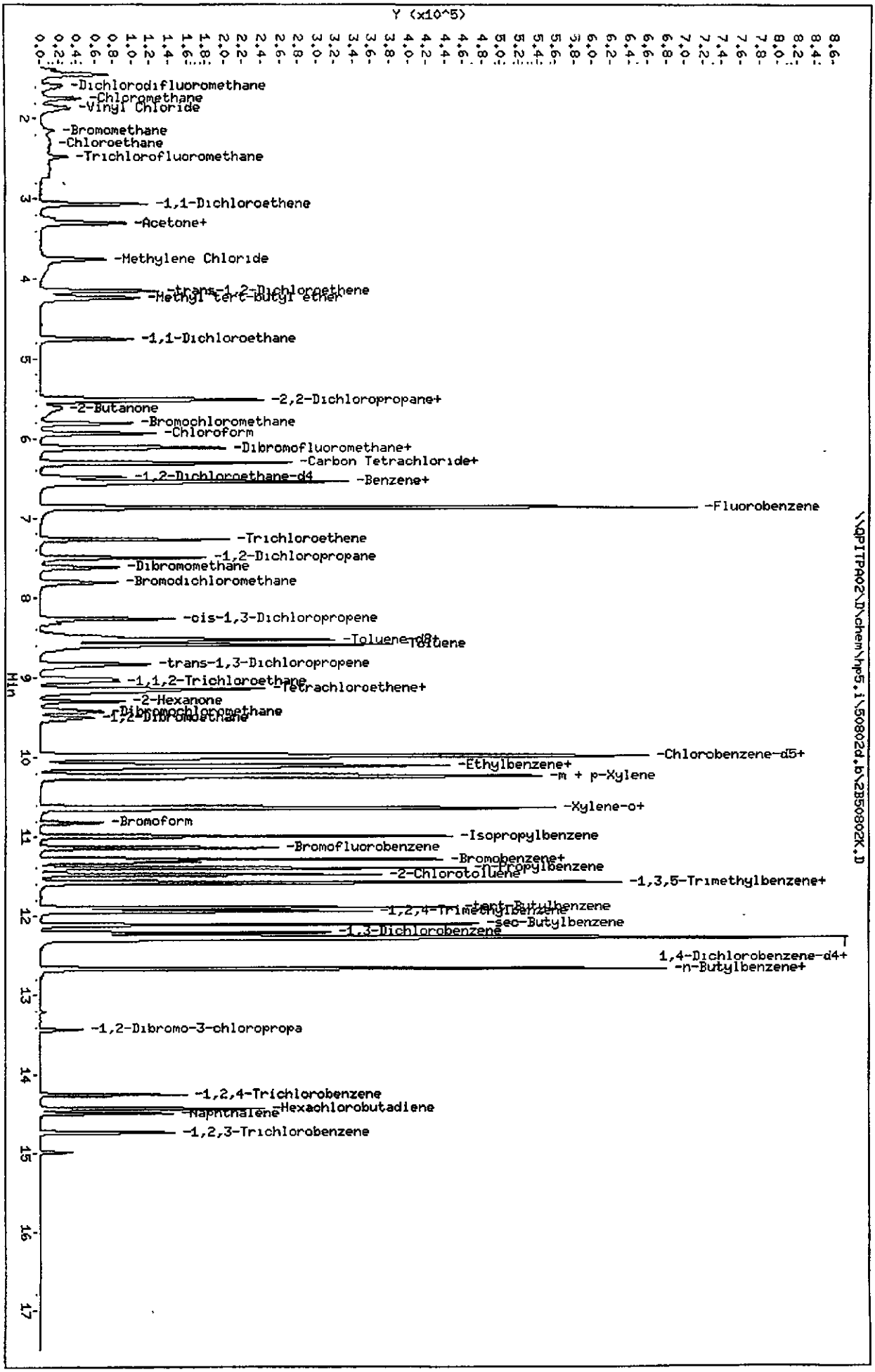
Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	6.863	6 863	(1 000)	687073	250 000	
* 69 Chlorobenzene-d5	119	9.966	9 966	(1 000)	157933	250 000	
* 92 1,4-Dichlorobenzene-d4	152	12.272	12 272	(1 000)	210625	250.000	
$ 39 Dibromofluoromethane	113	6 121	6.121	(0 892)	21609	25.0000	33.01
$ 43 1,2-Dichloroethane-d4	65	6 480	6.480	(0 944)	27715	25.0000	33 16
$ 59 Toluene-d8	98	8 524	8 524	(0.855)	106488	25.0000	36.38
$ 80 Bromofluorobenzene	95	11 134	11.134	(1.117)	37858	25.0000	35.14
1 Dichlorodifluoromethane	85	1.577	1.577	(0.230)	12365	25 0000	24.91
2 Chloromethane	50	1.735	1.735	(0.253)	17929	25 0000	23.53
3 Vinyl Chloride	62	1.851	1.851	(0 270)	17788	25 0000	24.52
4 Bromomethane	94	2.137	2.137	(0 311)	3428	25 0000	33.89
5 Chloroethane	64	2.240	2 240	(0 326)	3139	25 0000	24.00
6 Trichlorofluoromethane	101	2.465	2 465	(0.359)	4400	25.0000	23 48
12 1,1-Dichloroethene	96	3.067	3 067	(0.447)	12104	25.0000	22 66
13 Acetone	43	3.232	3 232	(0 471)	13554	25.0000	32.08
15 Carbon Disulfide	76	3 305	3 305	(0 482)	31287	25.0000	18 38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18 Methylene Chloride	84	3 743	3 743	(0.545)	13130	25 0000	19 74
19 trans-1,2-Dichloroethene	96	4 144	4 144	(0.604)	14780	25 0000	22.96
20 Methyl tert-butyl ether	73	4 223	4 223	(0 615)	34458	25 0000	17.77
24 1,1-Dichloroethane	63	4.746	4 746	(0 692)	27330	25 0000	22.42
27 2,2-Dichloropropane	77	5 501	5 501	(0 801)	20736	25 0000	21.77
28 cis-1,2-dichloroethene	96	5 519	5.519	(0.804)	16356	25 0000	21 82
31 2-Butanone	43	5 604	5 604	(0 817)	52392	25.0000	53 20
30 Bromochloromethane	128	5 805	5.805	(0 846)	6983	25.0000	20 55
37 Chloroform	83	5.933	5.933	(0.864)	24074	25.0000	21 98
38 1,1,1-Trichloroethane	97	6.115	6 115	(0.891)	20338	25 0000	21.92
41 Carbon Tetrachloride	117	6.304	6 304	(0.918)	16064	25 0000	21.78
40 1,1-Dichloropropene	75	6.310	6 310	(0 919)	16917	25 0000	22.34
42 Benzene	78	6 541	6.541	(0 953)	64620	25 0000	22.13
45 1,2-Dichloroethane	62	6 565	6.565	(0 957)	20623	25.0000	21 30
47 Trichloroethene	130	7.259	7.259	(1.058)	15438	25.0000	22 67
49 1,2-Dichloropropane	63	7.490	7 490	(1.091)	16660	25.0000	21 71
50 Dibromomethane	93	7.612	7 612	(1.109)	8888	25 0000	20 92
53 Bromodichloromethane	83	7.800	7 800	(1 136)	16507	25 0000	20 50
57 cis-1,3-Dichloropropene	75	8.257	8 257	(1 203)	21676	25.0000	20 15
58 4-Methyl-2-Pentanone	43	8 463	8.463	(0 849)	16780	25.0000	18.02
60 Toluene	91	8 591	8.591	(0 862)	75896	25.0000	24.17
61 trans-1,3-Dichloropropene	75	8 835	8.835	(0.886)	21475	25 0000	19.87
64 1,1,2-Trichloroethane	97	9 029	9.029	(0.906)	14660	25.0000	22.59
65 Tetrachloroethene	164	9.139	9.139	(0.917)	13323	25 0000	24.74
67 Dibromochloromethane	129	9.412	9.412	(0.944)	11404	25 0000	19.19
63 1,3-Dichloropropane	76	9.169	9.169	(0.920)	26724	25 0000	21.67
66 2-Hexanone	43	9.285	9.285	(0 932)	11592	25 0000	17.65
68 1,2-Dibromoethane	107	9 498	9.498	(0 953)	14069	25.0000	21 42
70 Chlorobenzene	112	9 996	9.996	(1 003)	48700	25.0000	23 99
72 Ethylbenzene	106	10 106	10.106	(1 014)	26166	25.0000	23.44
71 1,1,1,2-Tetrachloroethane	131	10.082	10.082	(1.012)	13304	25.0000	21.29
73 m + p-Xylene	106	10.228	10.228	(1.026)	60830	50.0000	47 75
74 Xylene-o	106	10.617	10.617	(1.065)	26874	25 0000	22.02
76 Styrene	104	10.635	10.635	(1 067)	43891	25 0000	21.27
77 Bromoform	173	10 806	10 806	(1.084)	6444	25 0000	17.22
78 Isopropylbenzene	105	10 988	10.988	(1.103)	72953	25.0000	23 32
79 Bromobenzene	156	11 280	11 280	(0 919)	17681	25.0000	24 33
83 1,1,2,2-Tetrachloroethane	83	11.274	11.274	(0.919)	19405	25.0000	23.06
84 1,2,3-Trichloropropane	110	11.310	11.310	(0 922)	6004	25 0000	22.50
81 n-Propylbenzene	120	11.390	11.390	(0.928)	18623	25 0000	24 17
82 2-Chlorotoluene	126	11.475	11 475	(0 935)	16447	25 0000	23 80
86 1,3,5-Trimethylbenzene	105	11 566	11.566	(0 942)	46969	25.0000	23 48
85 4-Chlorotoluene	126	11 578	11 578	(0.943)	17158	25.0000	24 85
87 tert-Butylbenzene	119	11 888	11 888	(0 969)	46716	25.0000	25 07
88 1,2,4-Trimethylbenzene	105	11 937	11 937	(0 973)	45721	25 0000	23 62
89 sec-Butylbenzene	105	12 107	12.107	(0 987)	74375	25.0000	25.84
91 1,3-Dichlorobenzene	146	12 211	12.211	(0.995)	32379	25.0000	25 15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	90 4-Isopropyltoluene	119	12.253	12.253	(0 999)	54348	25 0000	24 98
	93 1,4-Dichlorobenzene	146	12.296	12.296	(1 002)	32914	25 0000	25 18
	94 n-Butylbenzene	91	12.655	12.655	(1.031)	48569	25 0000	25.26
	95 1,2-Dichlorobenzene	146	12.661	12 661	(1.032)	30767	25 0000	25.14
	96 1,2-Dibromo-3-chloropropane	157	13.428	13 428	(1.094)	2741	25 0000	20 14
	97 1,2,4-Trichlorobenzene	180	14 261	14.261	(1.162)	15831	25.0000	29 70
	98 Hexachlorobutadiene	225	14 443	14 443	(1 177)	12896	25 0000	33.78
	99 Naphthalene	128	14.504	14 504	(1 182)	55482	25 0000	40.44
	100 1,2,3-Trichlorobenzene	180	14 748	14 748	(1 202)	24382	25 0000	45.40
M	29 1,2-Dichloroethene (total)	96				31136	50.0000	44.70
M	75 Xylenes (total)	106				87704	25 0000	71.86



Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\2B50802K.D
Date : 02-AUG-2000 21:47
Client ID: vstd20
Sample Info: vstd20 5ML
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.i
Operator: 034635
Column diameter: 0.20

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50802d.b\2B50802K.D
Lab Smp Id: vstd20 Client Smp ID: vstd20
Inj Date : 02-AUG-2000 21:47 MS Autotune Date: 13-MAR-2000 09:53
Operator : 034635 Inst ID: hp5.i
Smp Info : vstd20 5ML
Misc Info : vstd20,50802d.b,8260bh2o.m,3-dwlist.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\50802d.b\8260bh2o.m
Meth Date : 02-Aug-2000 22:07 journetp Quant Type: ISTD
Cal Date : 02-AUG-2000 21:47 Cal File: 2B50802K.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-dwlist.sub
Target Version: 4.04
Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo*Vt

8/18/2/4

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

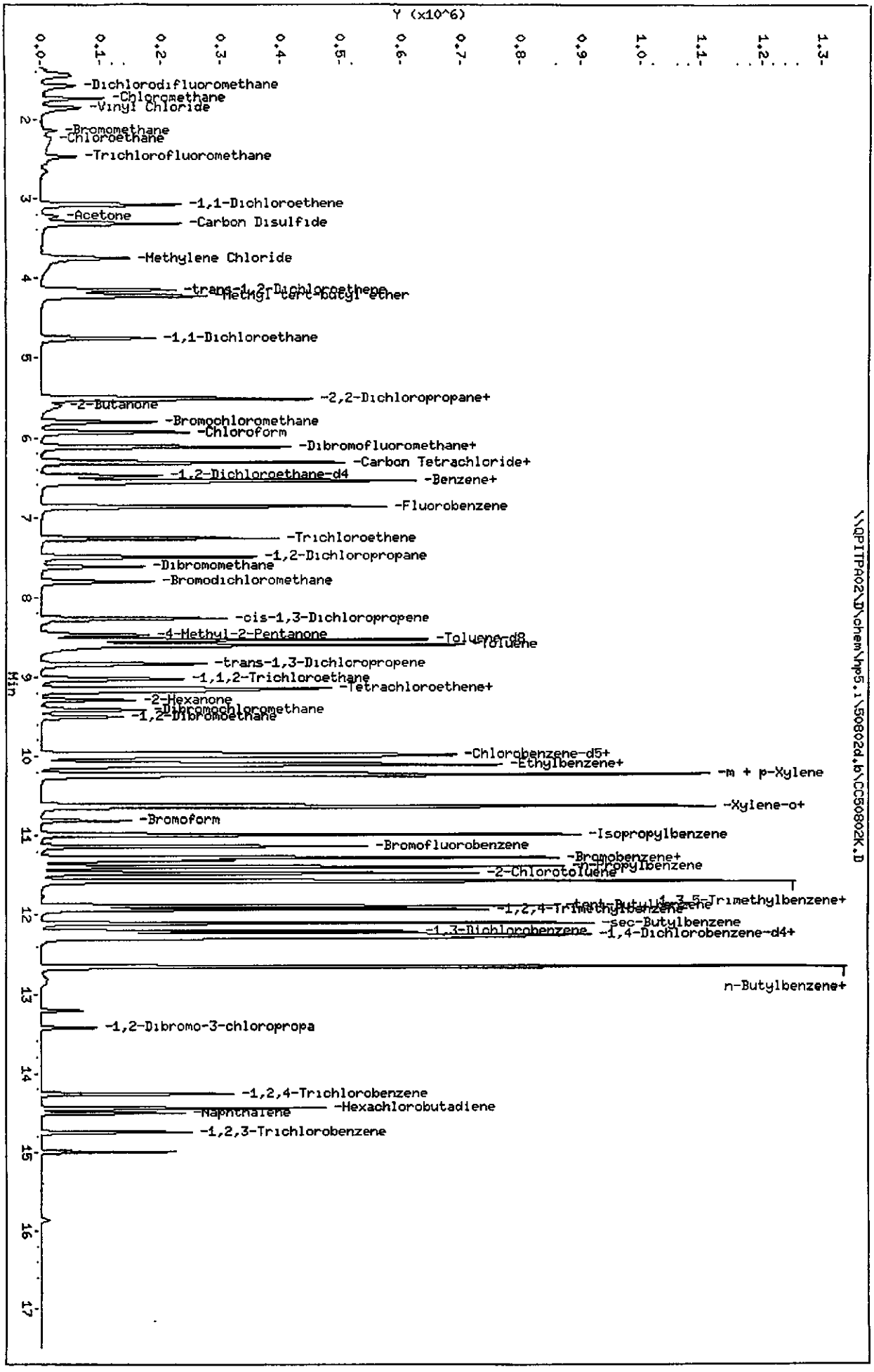
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	6.867	6.867	(1 000)	698002	250.000	
* 69 Chlorobenzene-d5	119	9 975	9.975	(1 000)	161574	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.275	12.275	(1.000)	211681	250 000	
$ 39 Dibromofluoromethane	113	6.125	6.125	(0.892)	57211	100 000	86 03
$ 43 1,2-Dichloroethane-d4	65	6 483	6.483	(0.944)	71317	100 000	83.99
$ 59 Toluene-d8	98	8.528	8 528	(0.855)	265317	100 000	88.60
$ 80 Bromofluorobenzene	95	11 137	11 137	(1 116)	93538	100 000	84.86
1 Dichlorodifluoromethane	85	1 592	1 592	(0 232)	55421	100.000	109.9
2 Chloromethane	50	1 738	1.738	(0.253)	82302	100.000	106.3
3 Vinyl Chloride	62	1.860	1.860	(0.271)	81070	100.000	110 0
4 Bromomethane	94	2.146	2.146	(0.313)	10187	100 000	99 14
5 Chloroethane	64	2.274	2.274	(0.331)	12868	100 000	96.85
6 Trichlorofluoromethane	101	2 474	2 474	(0 360)	20188	100 000	106 0
12 1,1-Dichloroethene	96	3 065	3 065	(0.446)	60558	100 000	111.6
13 Acetone	43	3 241	3 241	(0 472)	41036	100 000	95 61
15 Carbon Disulfide	76	3 302	3.302	(0.481)	163761	100.000	94 67

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18 Methylene Chloride	84	3 746	3 746	(0 546)	67084	100 000	99 29
19 trans-1,2-Dichloroethene	96	4 147	4.147	(0 604)	71236	100 000	108 9
20 Methyl tert-butyl ether	73	4 233	4.233	(0.616)	164574	100.000	83 54
24 1,1-Dichloroethane	63	4 756	4.756	(0.693)	130791	100.000	105 6
27 2,2-Dichloropropane	77	5 510	5 510	(0.802)	104841	100.000	108.4
28 cis-1,2-dichloroethene	96	5.522	5 522	(0.804)	79538	100.000	104 5
31 2-Butanone	43	5 614	5.614	(0.818)	95899	100 000	95.85
30 Bromochloromethane	128	5 808	5 808	(0.846)	33835	100 000	98 00
37 Chloroform	83	5 942	5 942	(0 865)	113103	100 000	101.6
38 1,1,1-Trichloroethane	97	6 112	6.112	(0 890)	101784	100 000	108.0
41 Carbon Tetrachloride	117	6 307	6.307	(0.918)	81944	100.000	109.4
40 1,1-Dichloropropene	75	6 313	6.313	(0.919)	84476	100.000	109 8
42 Benzene	78	6.538	6 538	(0.952)	311636	100.000	105.0
45 1,2-Dichloroethane	62	6.569	6 569	(0.957)	94592	100.000	96 19
47 Trichloroethene	130	7.262	7 262	(1 058)	72516	100.000	104.8
49 1,2-Dichloropropane	63	7.493	7.493	(1.091)	76451	100 000	98 05
50 Dibromomethane	93	7 615	7 615	(1.109)	40139	100 000	93 01
53 Bromodichloromethane	83	7.804	7 804	(1.136)	76185	100 000	93 13
57 cis-1,3-Dichloropropene	75	8.260	8 260	(1.203)	103293	100 000	94 51
58 4-Methyl-2-Pentanone	43	8 491	8 491	(0 851)	96287	100.000	101 1
60 Toluene	91	8 594	8 594	(0 862)	335539	100.000	104.4
61 trans-1,3-Dichloropropene	75	8 832	8 832	(0 885)	107465	100 000	97.20
64 1,1,2-Trichloroethane	97	9 039	9.039	(0 906)	64253	100.000	96.78
65 Tetrachloroethene	164	9 142	9.142	(0.916)	59391	100.000	107 8
67 Dibromochloromethane	129	9.428	9.428	(0.945)	57018	100.000	93.79
63 1,3-Dichloropropane	76	9.172	9 172	(0.920)	122108	100.000	96 79
66 2-Hexanone	43	9.300	9 300	(0.932)	66302	100 000	98 70
68 1,2-Dibromoethane	107	9.495	9 495	(0 952)	64011	100 000	95.26
70 Chlorobenzene	112	10 006	10 006	(1 003)	216100	100.000	104 0
72 Ethylbenzene	106	10 109	10 109	(1 013)	121510	100.000	106 4
71 1,1,1,2-Tetrachloroethane	131	10 097	10.097	(1 012)	63793	100.000	99.80
73 m + p-Xylene	106	10.231	10 231	(1.026)	275041	200.000	211 0
74 Xylene-o	106	10.626	10 626	(1 065)	130035	100.000	104.1
76 Styrene	104	10.645	10.645	(1 067)	213585	100 000	101.2
77 Bromoform	173	10.815	10.815	(1.084)	32886	100.000	85.88
78 Isopropylbenzene	105	10 991	10 991	(1 102)	346609	100.000	108.3
79 Bromobenzene	156	11.283	11.283	(0.919)	79496	100.000	108.9
83 1,1,2,2-Tetrachloroethane	83	11.283	11 283	(0 919)	83410	100.000	98.64
84 1,2,3-Trichloropropane	110	11 320	11.320	(0.922)	26087	100.000	97 26
81 n-Propylbenzene	120	11.393	11.393	(0 928)	88410	100 000	114 2
82 2-Chlorotoluene	126	11 478	11.478	(0 935)	75639	100.000	108.9
86 1,3,5-Trimethylbenzene	105	11 569	11 569	(0.943)	224604	100.000	111 7
85 4-Chlorotoluene	126	11 581	11.581	(0 944)	76082	100.000	109 6
87 tert-Butylbenzene	119	11.892	11 892	(0.969)	213615	100.000	114.1
88 1,2,4-Trimethylbenzene	105	11.940	11 940	(0 973)	210714	100 000	108 3
89 sec-Butylbenzene	105	12.105	12.105	(0 986)	334061	100 000	115.5
91 1,3-Dichlorobenzene	146	12.214	12.214	(0.995)	135346	100 000	104.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	90 4-Isopropyltoluene	119	12.251	12 251	(0 998)	247366	100.000	113.1
	93 1,4-Dichlorobenzene	146	12 299	12 299	(1 002)	135382	100 000	103 0
	94 n-Butylbenzene	91	12 658	12 658	(1 031)	226282	100 000	117.1
	95 1,2-Dichlorobenzene	146	12 664	12 664	(1 032)	128178	100.000	104 2
	96 1,2-Dibromo-3-chloropropane	157	13 431	13.431	(1.094)	11885	100.000	86.90
	97 1,2,4-Trichlorobenzene	180	14 264	14.264	(1.162)	50587	100.000	94 43
	98 Hexachlorobutadiene	225	14.441	14.441	(1.176)	46110	100.000	120.2
	99 Naphthalene	128	14.501	14 501	(1 181)	112957	100 000	81.91
	100 1,2,3-Trichlorobenzene	180	14.745	14 745	(1 201)	43562	100 000	80.71
M	29 1,2-Dichloroethene (total)	96				150774	200 000	213 0
M	75 Xylenes (total)	106				405076	100.000	324 4

Data File: \\QPITPA02\D\chem\hp5.i\508020.b\CC50802K.D
Date : 02-AUG-2000 13:38
Client ID: vsyd50
Sample Info: vstd50 5ML
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.i
Operator: 034635
Column diameter: 0.20



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VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50802d.b\CC50802K.D
Lab Smp Id: vstd50 Client Smp ID: vsyd50
Inj Date : 02-AUG-2000 13:38 MS Autotune Date: 13-MAR-2000 09:53
Operator : 034635 Inst ID: hp5.i
Smp Info : vstd50 5ML
Misc Info : vstd50,50802d.b,8260bh2o.m,3-dwlist.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\50802d.b\8260bh2o.m
Meth Date : 02-Aug-2000 20:58 journetp Quant Type: ISTD
Cal Date : 02-AUG-2000 13:38 Cal File: CC50802K.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-dwlist.sub
Target Version: 4.04
Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo*Vt

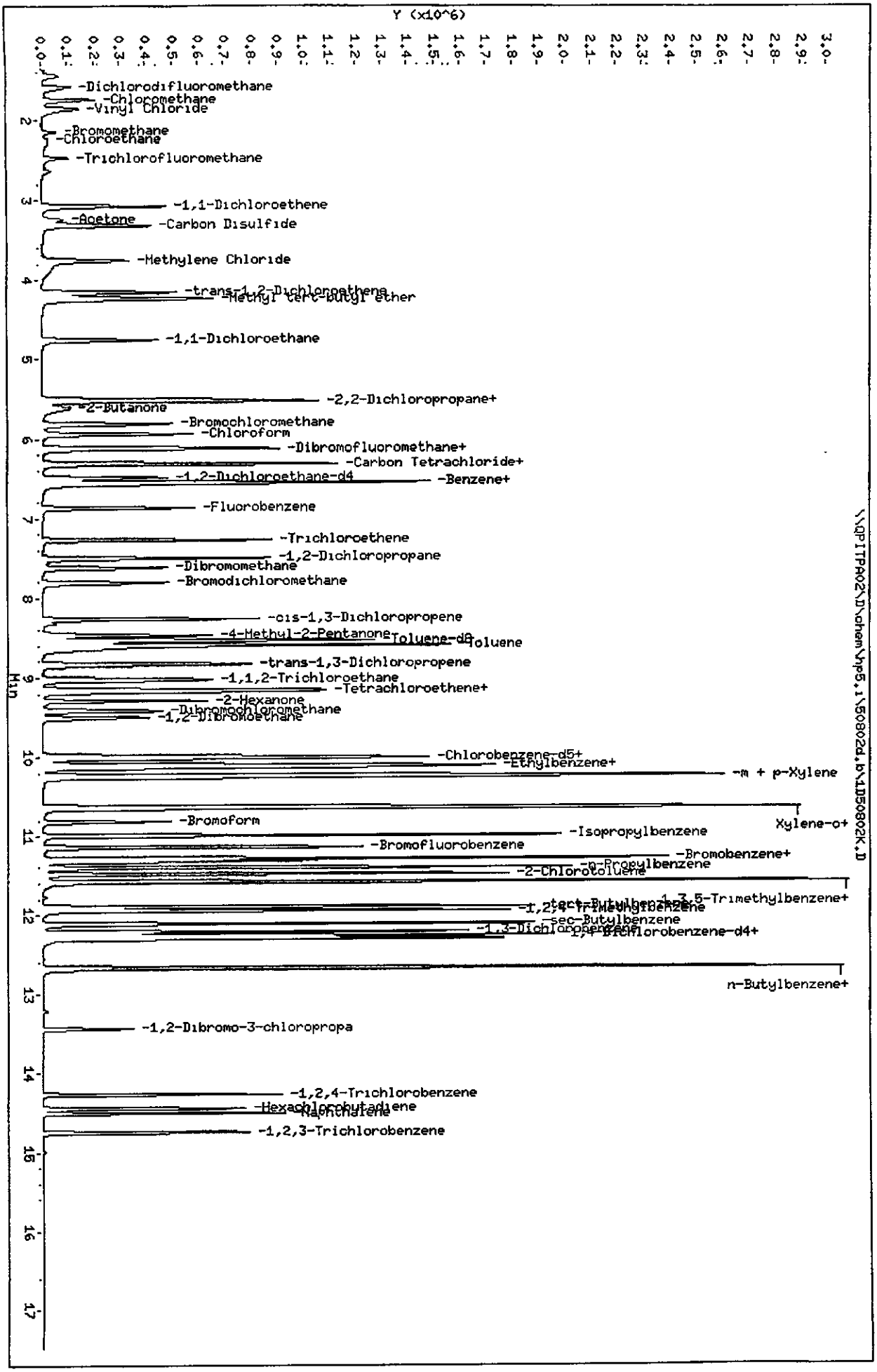
8/2/16

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	6.869	6.869	(1.000)	570388	250 000	
* 69 Chlorobenzene-d5	119	9 972	9 972	(1.000)	129893	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12 271	12 271	(1 000)	181026	250.000	
$ 39 Dibromofluoromethane	113	6 121	6 121	(0 891)	117962	250 000	250 0
$ 43 1,2-Dichloroethane-d4	65	6 480	6 480	(0 943)	148281	250 000	250.0
$ 59 Toluene-d8	98	8 524	8 524	(0 855)	568822	250 000	250.0
$ 80 Bromofluorobenzene	95	11.134	11.134	(1.117)	199246	250 000	250.0
1 Dichlorodifluoromethane	85	1.570	1.570	(0.229)	105289	250 000	250.0
2 Chloromethane	50	1 729	1.729	(0.252)	148897	250 000	250 0
3 Vinyl Chloride	62	1 844	1 844	(0.269)	147428	250 000	250 0
4 Bromomethane	94	2.136	2 136	(0.311)	17517	250.000	250 0
5 Chloroethane	64	2.240	2 240	(0 326)	31215	250.000	250 0
6 Trichlorofluoromethane	101	2.471	2 471	(0 360)	48624	250 000	250 0
12 1,1-Dichloroethene	96	3 073	3 073	(0 447)	113629	250.000	250.0
13 Acetone	43	3 225	3 225	(0 470)	61510	250 000	250.0
15 Carbon Disulfide	76	3 310	3 310	(0 482)	440078	250 000	250 0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18 Methylene Chloride	84	3 742	3.742	(0 545)	130580	250.000	250.0
19 trans-1,2-Dichloroethene	96	4 150	4.150	(0 604)	122948	250 000	250 0
20 Methyl tert-butyl ether	73	4 217	4.217	(0 614)	389305	250.000	250 0
24 1,1-Dichloroethane	63	4 752	4.752	(0 692)	237305	250 000	250.0
27 2,2-Dichloropropane	77	5.506	5 506	(0 802)	187509	250 000	250 0
28 cis-1,2-dichloroethene	96	5.519	5.519	(0 803)	140023	250.000	250 0
31 2-Butanone	43	5.592	5 592	(0.814)	98604	250.000	250 0
30 Bromochloromethane	128	5 805	5 805	(0 845)	61479	250 000	250 0
37 Chloroform	83	5 932	5.932	(0.864)	206800	250 000	250.0
38 1,1,1-Trichloroethane	97	6 115	6 115	(0 890)	184054	250 000	250 0
41 Carbon Tetrachloride	117	6.303	6 303	(0.918)	147650	250 000	250 0
40 1,1-Dichloropropene	75	6.309	6 309	(0.919)	151377	250 000	250 0
42 Benzene	78	6.541	6.541	(0.952)	563383	250.000	250.0
45 1,2-Dichloroethane	62	6.565	6 565	(0.956)	179985	250.000	250.0
47 Trichloroethene	130	7 265	7.265	(1.058)	133551	250 000	250 0
49 1,2-Dichloropropane	63	7.490	7.490	(1 090)	146938	250.000	250.0
50 Dibromomethane	93	7.611	7.611	(1 108)	76981	250.000	250 0
53 Bromodichloromethane	83	7 800	7 800	(1.135)	153917	250 000	250.0
57 cis-1,3-Dichloropropene	75	8 262	8.262	(1.203)	204710	250.000	250 0
58 4-Methyl-2-Pentanone	43	8.469	8.469	(0.849)	153535	250 000	250 0
60 Toluene	91	8.591	8.591	(0.862)	651330	250.000	250 0
61 trans-1,3-Dichloropropene	75	8.828	8 828	(0 885)	207421	250.000	250 0
64 1,1,2-Trichloroethane	97	9.029	9 029	(0 905)	119781	250.000	250 0
65 Tetrachloroethene	164	9.138	9.138	(0 916)	115649	250.000	250 0
67 Dibromochloromethane	129	9.412	9 412	(0 944)	111124	250 000	250 0
63 1,3-Dichloropropane	76	9.169	9.169	(0.919)	233843	250.000	250.0
66 2-Hexanone	43	9 284	9.284	(0.931)	105074	250 000	250 0
68 1,2-Dibromoethane	107	9.497	9.497	(0.952)	120031	250.000	250 0
70 Chlorobenzene	112	10.002	10 002	(1 003)	395524	250.000	250 0
72 Ethylbenzene	106	10.112	10.112	(1.014)	224695	250.000	250.0
71 1,1,1,2-Tetrachloroethane	131	10 087	10 087	(1.012)	122838	250 000	250 0
73 m + p-Xylene	106	10 227	10.227	(1.026)	507137	500 000	500 0
74 Xylene-o	106	10.623	10.623	(1 065)	241036	250.000	250.0
76 Styrene	104	10 635	10.635	(1.066)	411700	250.000	250 0
77 Bromoform	173	10.811	10 811	(1.084)	68351	250 000	250 0
78 Isopropylbenzene	105	10 988	10.988	(1 102)	657185	250 000	250.0
79 Bromobenzene	156	11.280	11.280	(0.919)	148763	250 000	250 0
83 1,1,2,2-Tetrachloroethane	83	11.280	11.280	(0.919)	160831	250.000	250.0
84 1,2,3-Trichloropropane	110	11.316	11.316	(0.922)	50187	250 000	250 0
81 n-Propylbenzene	120	11.395	11.395	(0.929)	164882	250 000	250 0
82 2-Chlorotoluene	126	11 474	11.474	(0 935)	145382	250 000	250 0
86 1,3,5-Trimethylbenzene	105	11.572	11 572	(0.943)	433522	250.000	250 0
85 4-Chlorotoluene	126	11.578	11 578	(0.943)	143371	250 000	250.0
87 tert-Butylbenzene	119	11 888	11 888	(0.969)	405047	250 000	250 0
88 1,2,4-Trimethylbenzene	105	11.937	11.937	(0.973)	406389	250.000	250 0
89 sec-Butylbenzene	105	12 107	12 107	(0.987)	643172	250 000	250 0
91 1,3-Dichlorobenzene	146	12 210	12 210	(0.995)	261521	250.000	250 0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	90 4-Isopropyltoluene	119	12 253	12.253	(0 999)	485794	250 000	250 0
	93 1,4-Dichlorobenzene	146	12 296	12.296	(1 002)	263101	250 000	250.0
	94 n-Butylbenzene	91	12 655	12 655	(1 031)	443246	250.000	250.0
	95 1,2-Dichlorobenzene	146	12.667	12 667	(1 032)	248227	250 000	250 0
	96 1,2-Dibromo-3-chloropropane	157	13 427	13 427	(1 094)	23282	250 000	250 0
	97 1,2,4-Trichlorobenzene	180	14.261	14 261	(1 162)	95174	250.000	250.0
	98 Hexachlorobutadiene	225	14.443	14 443	(1 177)	87330	250.000	250 0
	99 Naphthalene	128	14 504	14 504	(1 182)	185770	250.000	250.0
	100 1,2,3-Trichlorobenzene	180	14 747	14 747	(1 202)	76383	250.000	250.0
M	29 1,2-Dichloroethene (total)	96				262971	500.000	500.0
M	75 Xylenes (total)	106				748174	250.000	776.0



Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\1D50802K.D
Date : 02-AUG-2000 20:14
Client ID: vstd100
Sample Info: vstd100 5ML
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.i
Operator: 034635
Column diameter: 0.20

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50802d.b\1D50802K.D
Lab Smp Id: vstd100 Client Smp ID: vstd100
Inj Date : 02-AUG-2000 20:14 MS Autotune Date: 13-MAR-2000 09:53
Operator : 034635 Inst ID: hp5.i
Smp Info : vstd100 5ML
Misc Info : vstd100,50802d.b,8260bh2o.m,3-dwlist.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\50802d.b\8260bh2o.m
Meth Date : 02-Aug-2000 21:01 journetp Quant Type: ISTD
Cal Date : 02-AUG-2000 20:14 Cal File: 1D50802K.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-dwlist.sub
Target Version: 4.04
Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo*Vt

8/21/h

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

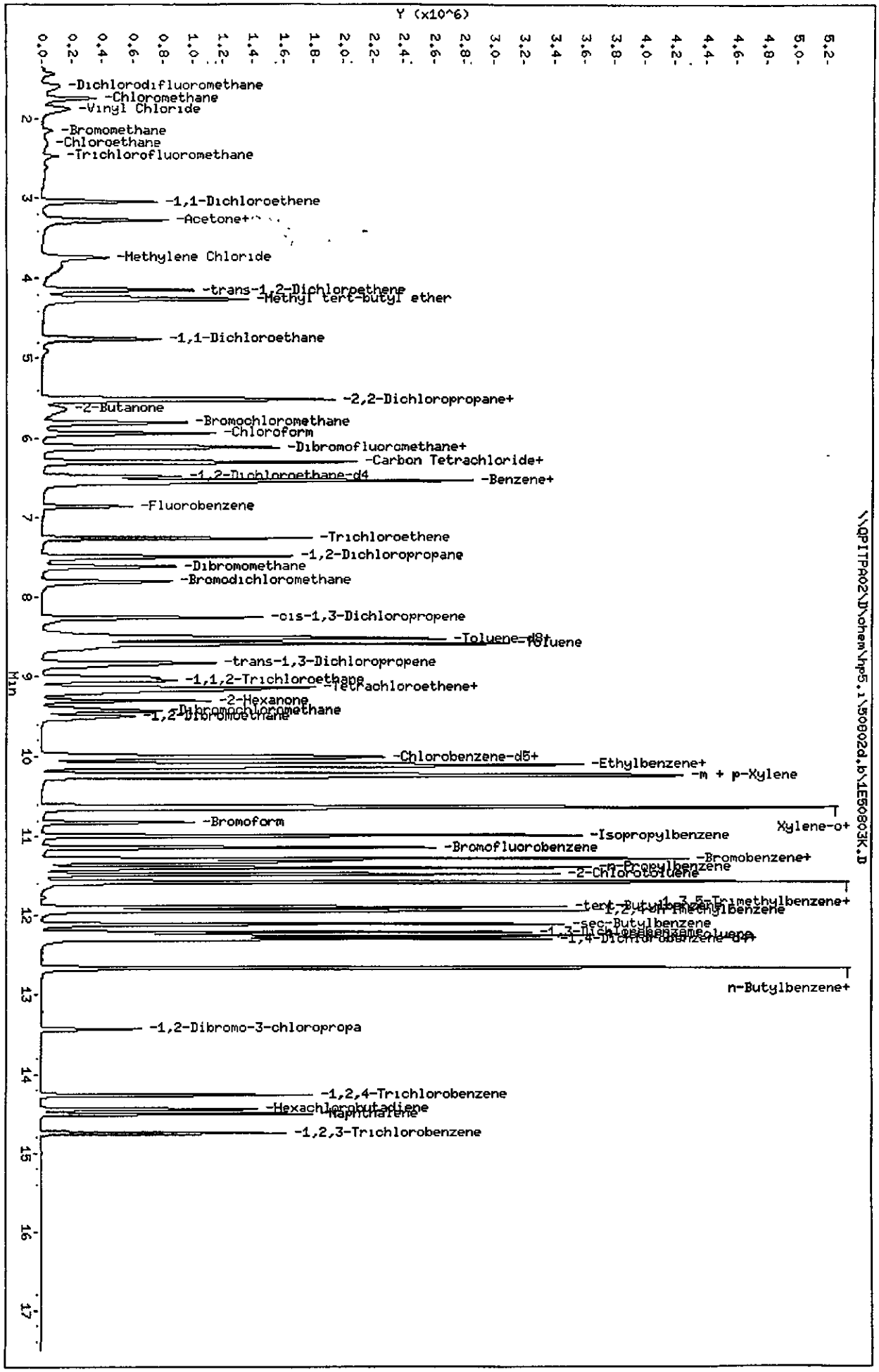
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	46 Fluorobenzene	96	6.867	6 867	(1 000)	570722	250.000	
*	69 Chlorobenzene-d5	119	9.976	9 976	(1 000)	146582	250.000	
*	92 1,4-Dichlorobenzene-d4	152	12.276	12 276	(1.000)	218584	250.000	
$	39 Dibromofluoromethane	113	6.125	6 125	(0.892)	262664	500.000	505.9
$	43 1,2-Dichloroethane-d4	65	6 484	6.484	(0.944)	343888	500.000	503.0
$	59 Toluene-d8	98	8.534	8.534	(0.855)	1184662	500 000	459 4
$	80 Bromofluorobenzene	95	11 138	11.138	(1.116)	463558	500.000	496.1
	1 Dichlorodifluoromethane	85	1 581	1 581	(0.230)	224016	500.000	502 6
	2 Chloromethane	50	1 739	1 739	(0.253)	336806	500.000	510 5
	3 Vinyl Chloride	62	1 855	1.855	(0 270)	321536	500.000	510.8
	4 Bromomethane	94	2.141	2.141	(0 312)	43437	500.000	501.8
	5 Chloroethane	64	2 238	2 238	(0.326)	59428	500.000	462 7
	6 Trichlorofluoromethane	101	2.475	2.475	(0 360)	87672	500.000	170.7
	12 1,1-Dichloroethene	96	3 071	3.071	(0 447)	239887	500.000	501.1
	13 Acetone	43	3.236	3 236	(0 471)	191463	500.000	488 0
	15 Carbon Disulfide	76	3.309	3 309	(0.482)	786475	500.000	472 4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18 Methylene Chloride	84	3.747	3 747	(0 546)	319075	500.000	542 0
19 trans-1,2-Dichloroethene	96	4.154	4.154	(0.605)	279203	500 000	520 5
20 Methyl tert-butyl ether	73	4.233	4.233	(0.616)	970330	500 000	547.7
24 1,1-Dichloroethane	63	4.756	4 756	(0 693)	552017	500 000	519 1
27 2,2-Dichloropropane	77	5.511	5 511	(0 802)	427004	500 000	532.7
28 cis-1,2-dichloroethene	96	5 523	5.523	(0 804)	342636	500.000	541.7
31 2-Butanone	43	5 608	5.608	(0 817)	306326	500 000	471 3
30 Bromochloromethane	128	5.809	5 809	(0.846)	162299	500.000	557.1
37 Chloroform	83	5.937	5 937	(0.864)	497815	500.000	530 0
38 1,1,1-Trichloroethane	97	6 119	6.119	(0 891)	416583	500.000	526.8
41 Carbon Tetrachloride	117	6 308	6 308	(0.919)	333315	500 000	535.2
40 1,1-Dichloropropene	75	6 314	6.314	(0.919)	336156	500 000	533.0
42 Benzene	78	6.545	6.545	(0.953)	1304308	500.000	525 7
45 1,2-Dichloroethane	62	6.569	6.569	(0.957)	469146	500.000	550 9
47 Trichloroethene	130	7 269	7.269	(1.058)	300367	500.000	521 6
49 1,2-Dichloropropane	63	7.494	7.494	(1 091)	358281	500 000	548.2
50 Dibromomethane	93	7.616	7.616	(1 109)	211356	500.000	578.0
53 Bromodichloromethane	83	7.804	7.804	(1.136)	392085	500.000	589.9
57 cis-1,3-Dichloropropene	75	8 261	8.261	(1.203)	528648	500.000	611 0
58 4-Methyl-2-Pentanone	43	8.473	8.473	(0.849)	545975	500.000	594 8
60 Toluene	91	8.595	8.595	(0.862)	1488525	500.000	493.8
61 trans-1,3-Dichloropropene	75	8.832	8.832	(0.885)	578506	500.000	571 6
64 1,1,2-Trichloroethane	97	9.021	9 021	(0 904)	337205	500.000	535.1
65 Tetrachloroethene	164	9.143	9.143	(0.916)	250091	500 000	483 4
67 Dibromochloromethane	129	9.416	9.416	(0 944)	326055	500.000	577.8
63 1,3-Dichloropropane	76	9 173	9.173	(0 920)	651695	500.000	549.9
66 2-Hexanone	43	9.289	9 289	(0.931)	398644	500.000	645.4
68 1,2-Dibromoethane	107	9.502	9.502	(0.952)	354797	500.000	569 8
70 Chlorobenzene	112	10.007	10.007	(1.003)	974066	500 000	506.3
72 Ethylbenzene	106	10.116	10 116	(1.014)	539176	500.000	520.0
71 1,1,1,2-Tetrachloroethane	131	10.092	10 092	(1 012)	320711	500.000	537 1
73 m + p-Xylene	106	10.232	10.232	(1 026)	1233624	1000 00	1037
74 Xylene-o	106	10.621	10.621	(1.065)	618270	500.000	541 5
76 Styrene	104	10.639	10.639	(1.066)	1071843	500.000	557 1
77 Bromoform	173	10.810	10.810	(1.084)	223415	500.000	621 8
78 Isopropylbenzene	105	10.986	10 986	(1 101)	1508889	500.000	522 2
79 Bromobenzene	156	11 278	11 278	(0 919)	381862	500.000	497 5
83 1,1,2,2-Tetrachloroethane	83	11.278	11 278	(0 919)	501781	500.000	530 0
84 1,2,3-Trichloropropane	110	11.314	11.314	(0.922)	157715	500.000	529.8
81 n-Propylbenzene	120	11.394	11.394	(0.928)	389368	500 000	503.3
82 2-Chlorotoluene	126	11.473	11.473	(0.935)	356543	500 000	499.5
86 1,3,5-Trimethylbenzene	105	11.570	11.570	(0 943)	1044090	500.000	513.5
85 4-Chlorotoluene	126	11.582	11.582	(0 944)	357535	500 000	499.0
87 tert-Butylbenzene	119	11.892	11.892	(0 969)	928481	500.000	503 3
88 1,2,4-Trimethylbenzene	105	11 935	11.935	(0 972)	1011500	500.000	519 3
89 sec-Butylbenzene	105	12.105	12.105	(0.986)	1384852	500.000	491 6
91 1,3-Dichlorobenzene	146	12.209	12 209	(0.995)	669672	500.000	503 9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
90	4-Isopropyltoluene	119	12 251	12 251	(0.998)	1073287	500.000	503 5
93	1,4-Dichlorobenzene	146	12.300	12 300	(1.002)	691021	500 000	506 0
94	n-Butylbenzene	91	12 659	12 659	(1 031)	920747	500 000	510 3
95	1,2-Dichlorobenzene	146	12 665	12 665	(1 032)	657247	500 000	508 9
96	1,2-Dibromo-3-chloropropane	157	13 431	13 431	(1 094)	89468	500.000	645 9
97	1,2,4-Trichlorobenzene	180	14.265	14.265	(1.162)	276982	500.000	571 0
98	Hexachlorobutadiene	225	14.441	14 441	(1.176)	140103	500.000	448 5
99	Naphthalene	128	14.502	14 502	(1.181)	688231	500.000	659 8
100	1,2,3-Trichlorobenzene	180	14.746	14 746	(1.201)	235110	500.000	585 4
M 29	1,2-Dichloroethene (total)	96				621839	1000.00	1064
M 75	Xylenes (total)	106				1851894	500 000	1622

Data File: \\QPITPA02\D\chem\hp5.i\500802d.b\1E50803K.D
Date : 02-AUG-2000 20:41
Client ID: vstd200
Sample Info: vstd200 5ML
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.i
Operator: 034635
Column diameter: 0.20



670 118

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50802d.b\1E50803K.D
Lab Smp Id: vstd200 Client Smp ID: vstd200
Inj Date : 02-AUG-2000 20:41 MS Autotune Date: 13-MAR-2000 09:53
Operator : 034635 Inst ID: hp5.i
Smp Info : vstd200 5ML
Misc Info : vstd200,50802d.b,8260bh2o.m,3-dwlist.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\50802d.b\8260bh2o.m
Meth Date : 02-Aug-2000 21:13 journetp Quant Type: ISTD
Cal Date : 02-AUG-2000 20:41 Cal File: 1E50803K.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-dwlist.sub
Target Version: 4.04
Processing Host: PITPC076

DJ 8/2/N

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 46 Fluorobenzene	96	6 867	6.867	(1.000)	603853	250.000	
* 69 Chlorobenzene-d5	119	9.988	9 988	(1.000)	150029	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.281	12 281	(1 000)	214236	250.000	
$ 39 Dibromofluoromethane	113	6 131	6 131	(0 893)	566586	1000.00	1025
$ 43 1,2-Dichloroethane-d4	65	6 490	6 490	(0.945)	725774	1000.00	1003
$ 59 Toluene-d8	98	8 528	8.528	(0.854)	2340102	1000.00	907 3
$ 80 Bromofluorobenzene	95	11.143	11 143	(1.116)	940882	1000.00	986 9
1 Dichlorodifluoromethane	85	1.592	1 592	(0.232)	347402	1000 00	777 6
2 Chloromethane	50	1.738	1.738	(0 253)	662850	1000 00	959 2
3 Vinyl Chloride	62	1.872	1 872	(0 273)	556401	1000.00	863 9
4 Bromomethane	94	2.146	2 146	(0 313)	69717	1000.00	799 4
5 Chloroethane	64	2 298	2 298	(0 335)	95098	1000.00	744.5
6 Trichlorofluoromethane	101	2.468	2.468	(0.360)	102662	1000.00	225.4
12 1,1-Dichloroethene	96	3 040	3 040	(0 443)	409087	1000 00	839.9
13 Acetone	43	3 265	3 265	(0.476)	359363	1000 00	889 6
15 Carbon Disulfide	76	3 278	3.278	(0.477)	1437563	1000 00	847.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18 Methylene Chloride	84	3.740	3 740	(0 545)	652334	1000 00	1037
19 trans-1,2-Dichloroethene	96	4 141	4 141	(0 603)	581479	1000 00	1019
20 Methyl tert-butyl ether	73	4.251	4 251	(0.619)	2184256	1000.00	1128
24 1,1-Dichloroethane	63	4.750	4.750	(0.692)	1090091	1000 00	975.0
27 2,2-Dichloropropane	77	5.504	5.504	(0 802)	851118	1000 00	1003
28 cis-1,2-dichloroethene	96	5.522	5 522	(0 804)	712395	1000 00	1051
31 2-Butanone	43	5.632	5 632	(0 820)	590711	1000 00	883.9
30 Bromochloromethane	128	5 814	5 814	(0 847)	351353	1000 00	1109
37 Chloroform	83	5 942	5 942	(0.865)	1060147	1000 00	1053
38 1,1,1-Trichloroethane	97	6 112	6.112	(0.890)	820126	1000.00	984 2
41 Carbon Tetrachloride	117	6.301	6.301	(0.918)	636270	1000.00	972.3
40 1,1-Dichloropropene	75	6.313	6.313	(0 919)	650411	1000 00	979.6
42 Benzene	78	6.538	6 538	(0 952)	2717417	1000 00	1028
45 1,2-Dichloroethane	62	6.575	6.575	(0.957)	955280	1000.00	1048
47 Trichloroethene	130	7.262	7.262	(1.058)	620882	1000.00	1015
49 1,2-Dichloropropane	63	7.493	7.493	(1 091)	745225	1000.00	1061
50 Dibromomethane	93	7.615	7 615	(1 109)	433757	1000 00	1094
53 Bromodichloromethane	83	7 804	7.804	(1 136)	817806	1000 00	1126
57 cis-1,3-Dichloropropene	75	8 266	8.266	(1 204)	1086486	1000.00	1144
58 4-Methyl-2-Pentanone	43	8 497	8.497	(0.851)	1063448	1000.00	1103
60 Toluene	91	8 594	8 594	(0.861)	2860061	1000.00	940 7
61 trans-1,3-Dichloropropene	75	8.832	8 832	(0 884)	1176838	1000 00	1106
64 1,1,2-Trichloroethane	97	9 057	9.057	(0.907)	684924	1000.00	1049
65 Tetrachloroethene	164	9 142	9.142	(0.915)	453391	1000.00	881 5
67 Dibromochloromethane	129	9.434	9.434	(0.945)	678825	1000.00	1135
63 1,3-Dichloropropane	76	9.172	9.172	(0.918)	1293210	1000.00	1052
66 2-Hexanone	43	9.306	9.306	(0.932)	761090	1000.00	1157
68 1,2-Dibromoethane	107	9.501	9.501	(0.951)	709787	1000.00	1089
70 Chlorobenzene	112	10 018	10.018	(1.003)	1964708	1000.00	998 2
72 Ethylbenzene	106	10 115	10.115	(1.013)	1037389	1000 00	981.9
71 1,1,1,2-Tetrachloroethane	131	10 103	10 103	(1 012)	645820	1000 00	1045
73 m + p-Xylene	106	10.243	10.243	(1 026)	2367911	2000.00	1956
74 Xylene-o	106	10.632	10.632	(1 065)	1189067	1000.00	1014
76 Styrene	104	10 645	10.645	(1.066)	2054051	1000.00	1034
77 Bromoform	173	10.821	10.821	(1.083)	454593	1000.00	1180
78 Isopropylbenzene	105	10.991	10 991	(1.100)	2741223	1000.00	940 7
79 Bromobenzene	156	11 283	11.283	(0.919)	718687	1000 00	964 0
83 1,1,2,2-Tetrachloroethane	83	11 283	11 283	(0 919)	900446	1000 00	976 2
84 1,2,3-Trichloropropane	110	11 326	11 326	(0 922)	302202	1000 00	1028
81 n-Propylbenzene	120	11.399	11 399	(0.928)	722501	1000 00	961.9
82 2-Chlorotoluene	126	11.478	11 478	(0.935)	692131	1000 00	991.5
86 1,3,5-Trimethylbenzene	105	11 575	11 575	(0.943)	1891500	1000 00	958 9
85 4-Chlorotoluene	126	11.588	11 588	(0 944)	663760	1000 00	955 7
87 tert-Butylbenzene	119	11 892	11.892	(0.968)	1675429	1000.00	940.4
88 1,2,4-Trimethylbenzene	105	11 940	11 940	(0 972)	1946587	1000.00	1016
89 sec-Butylbenzene	105	12 111	12 111	(0 986)	2470570	1000.00	914.1
91 1,3-Dichlorobenzene	146	12 214	12 214	(0 995)	1310314	1000.00	1005

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	90 4-Isopropyltoluene	119	12.257	12 257	(0 998)	1948505	1000 00	945 4
	93 1,4-Dichlorobenzene	146	12 299	12 299	(1 001)	1339466	1000 00	1001
	94 n-Butylbenzene	91	12.658	12 658	(1.031)	1607769	1000 00	926 0
	95 1,2-Dichlorobenzene	146	12 670	12.670	(1.032)	1212606	1000.00	966 0
	96 1,2-Dibromo-3-chloropropane	157	13 431	13 431	(1.094)	174706	1000.00	1217
	97 1,2,4-Trichlorobenzene	180	14 264	14 264	(1 161)	561234	1000.00	1139
	98 Hexachlorobutadiene	225	14 441	14 441	(1 176)	262011	1000 00	881 2
	99 Naphthalene	128	14 502	14 502	(1 181)	1349093	1000 00	1240
	100 1,2,3-Trichlorobenzene	180	14 745	14.745	(1 201)	475892	1000 00	1160
M	29 1,2-Dichloroethene (total)	96				1293874	2000.00	2073
M	75 Xylenes (total)	106				3556978	1000.00	3033

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: METHODS

Instrument ID: HP5 Calibration Date: 08/22/00 Time: 0550

Lab File ID: CC50822 Init. Calib. Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N Init. Calib. Times: 1338 2147

GC Column: DB 624 ID: 0.20 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Chloromethane	0.277	0.319	0.1	15.2	50.0	
Vinyl Chloride	0.264	0.302	0.01	14.4	20.0	
Bromomethane	0.037	0.058	0.01	56.8	50.0	<-
Chloroethane	0.048	0.065	0.01	35.4	50.0	
1,1-Dichloroethene	0.194	0.219	0.01	12.9	20.0	
Methylene Chloride	0.242	0.241	0.01	0.4	50.0	
trans-1,2-Dichloroethene	0.234	0.239	0.01	2.1	50.0	
1,1-Dichloroethane	0.443	0.452	0.1	2.0	50.0	
cis-1,2-dichloroethene	0.273	0.269	0.01	1.5	50.0	
Chloroform	0.398	0.394	0.01	1.0	20.0	
1,1,1-Trichloroethane	0.338	0.360	0.01	6.5	50.0	
Carbon Tetrachloride	0.268	0.288	0.01	7.5	50.0	
1,2-Dichloroethane	0.352	0.346	0.01	1.7	50.0	
Benzene	1.062	1.060	0.01	0.2	50.0	
Trichloroethene	0.248	0.248	0.01	0.0	50.0	
1,2-Dichloropropane	0.279	0.260	0.01	6.8	20.0	
Bromodichloromethane	0.293	0.267	0.01	8.9	50.0	
cis-1,3-Dichloropropene	0.391	0.337	0.01	13.8	50.0	
Toluene	4.971	4.701	0.01	5.4	20.0	
trans-1,3-Dichloropropene	1.711	1.544	0.01	9.8	50.0	
1,1,2-Trichloroethane	1.027	0.948	0.01	7.7	50.0	
Tetrachloroethene	0.852	0.836	0.01	1.9	50.0	
Dibromochloromethane	0.941	0.907	0.01	3.6	50.0	
Chlorobenzene	3.214	3.046	0.3	5.2	50.0	
Ethylbenzene	1.767	1.709	0.01	3.3	20.0	
Styrene	3.267	3.264	0.01	0.1	50.0	
Bromoform	0.593	0.573	0.1	3.4	50.0	
1,1,2,2-Tetrachloroethane	0.999	0.869	0.3	13.0	50.0	
Acetone	0.154	0.113	0.01	26.6	50.0	
Carbon Disulfide	0.619	0.743	0.01	20.0	50.0	
2-Butanone	0.358	0.167	0.01	53.4	50.0	<-
4-Methyl-2-Pentanone	1.474	1.265	0.01	14.2	50.0	
2-Hexanone	1.039	0.885	0.01	14.8	50.0	
Xylenes (total)	1.932	1.932	0.01	0.0	50.0	
Dibromofluoromethane	0.238	0.232	0.01	2.5	50.0	
1,2-Dichloroethane-d4	0.304	0.290	0.01	4.6	50.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: SDG No.: METHODS

Instrument ID: HP5 Calibration Date: 08/22/00 Time: 0550

Lab File ID: CC50822 Init. Calib. Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N Init. Calib. Times: 1338 2147

GC Column: DB 624 ID: 0.20 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Toluene-d8	4.633	4.241	0.01	8.5	50.0
Bromofluorobenzene	1.705	1.635	0.01	4.1	50.0

Data File: \\qpitpa02\d\chem\hp5.i\50822d.b/CC50822.D
Report Date: 08/22/2000

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: hp5.i
Lab File ID: CC50822.D
Analysis Type: WATER

Injection Date: 22-AUG-2000 05:50
Lab Sample ID: vstd50
Method File: \\QPITPA02\D\chem\hp5.i\50822d.b

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
154	Xylenes (total)	750.0000	764.5791	1 9	50 0	
2	Chloromethane	250.0000	287.5033	15.0	50.0	
3	Vinyl Chloride	250.0000	285.8357	14.3	20.0	
4	Bromomethane	250.0000	391.5724	56.6	50.0	<-
5	Chloroethane	250.0000	339.9443	36.0	50.0	
9	1,1-Dichloroethene	250.0000	281.8723	12.7	20.0	
106	Acetone	250.0000	183.5804	26.6	50.0	
107	Carbon Disulfide	250.0000	299.8286	19.9	50.0	
10	Methylene Chloride	250.0000	249.4527	0.2	50.0	
13	trans-1,2-Dichloroethene	250.0000	254.8286	1.9	50.0	
15	1,1-Dichloroethane	250.0000	255.0735	2.0	50.0	
17	cis-1,2-dichloroethene	250.0000	246 6698	1.3	50.0	
108	2-Butanone	250.0000	116.6606	53.3	50.0	<-
18	Chloroform	250.0000	246 8685	1.3	20.0	
149	Dibromofluoromethane	250.0000	243.2757	2.7	50.0	
20	1,1,1-Trichloroethane	250.0000	266.3119	6.5	50.0	
21	Carbon Tetrachloride	250.0000	268.4547	7.4	50.0	
150	1,2-Dichloroethane-d4	250.0000	238 0029	4.8	50.0	
24	Benzene	250 0000	249.4357	0.2	50.0	
23	1,2-Dichloroethane	250.0000	245.9247	1.6	50.0	
137	Fluorobenzene	250.0000	250.0000	0 0	50.0	
26	Trichloroethene	250.0000	250.1874	0.1	50 0	
27	1,2-Dichloropropane	250.0000	233.1499	6.7	20.0	
28	Bromodichloromethane	250 0000	227.5214	9.0	50.0	
31	cis-1,3-Dichloropropene	250 0000	215.4862	13.8	50.0	
110	4-Methyl-2-Pentanone	250.0000	214.6168	14.2	50.0	
151	Toluene-d8	250.0000	228.8171	8.5	50.0	
33	Toluene	250.0000	236.4366	5.4	20.0	
34	trans-1,3-Dichloropropene	250.0000	225.6986	9.7	50.0	
36	1,1,2-Trichloroethane	250.0000	230.7988	7.7	50.0	
37	Tetrachloroethene	250.0000	245.1491	1.9	50.0	
111	2-Hexanone	250.0000	212.8380	14.9	50.0	
38	Dibromochloromethane	250 0000	241.0796	3.6	50.0	
101	Chlorobenzene-d5	250.0000	250.0000	0.0	50.0	
40	Chlorobenzene	250.0000	236.9252	5.2	50.0	
41	Ethylbenzene	250.0000	241.7871	3.3	20.0	
0	m + p-Xylene	500.0000	493.0130	1.4	50.0	
0	Xylene-o	250.0000	249 9756	0.0	50 0	
44	Styrene	250.0000	249.8533	0.1	50.0	

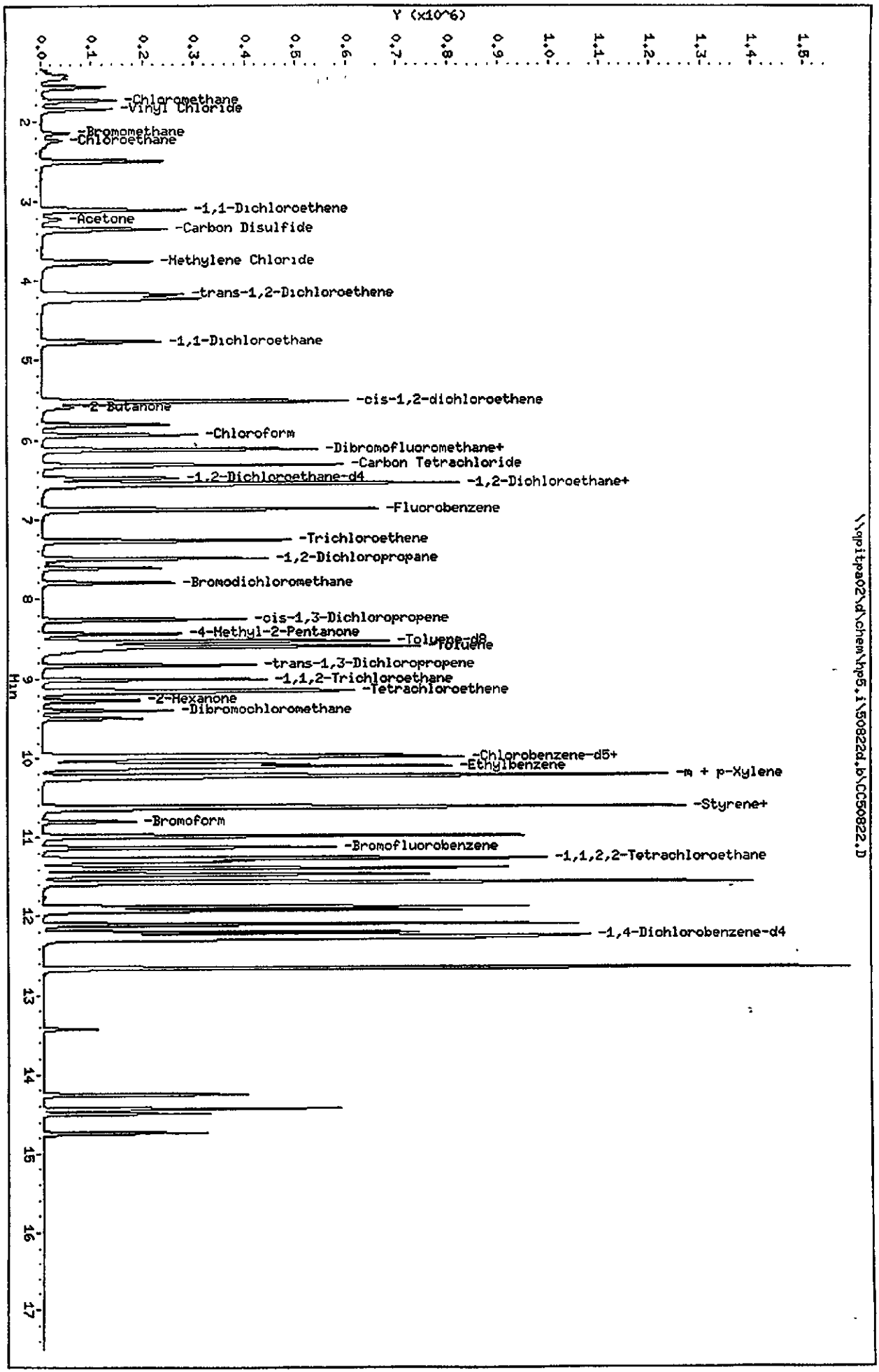
670 124
Data File: \\qpitpa02\d\chem\hp5.i\50822d.b/CC50822.D
Report Date: 08/22/2000

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: hp5.i
Lab File ID: CC50822.D
Analysis Type: WATER

Injection Date: 22-AUG-2000 05:50
Lab Sample ID: vstd50
Method File: \\QPITPA02\D\chem\hp5.i\50822d.b

	COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
45	Bromoform	250.0000	241.8495	3.3	50.0
152	Bromofluorobenzene	250.0000	239.6887	4.1	50.0
46	1,1,2,2-Tetrachloroethane	250.0000	217.6458	12.9	50.0
102	1,4-Dichlorobenzene-d4	250.0000	250.0000	0.0	50.0



Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\CC50822.D
Date : 22-AUG-2000 05:50
Client ID: vstd50
Sample Info: vstd50 5ML
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.i
Operator: 10099
Column diameter: 0.20

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50822d.b\CC50822.D
Lab Smp Id: vstd50 Client Smp ID: vstd50
Inj Date : 22-AUG-2000 05:50 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : vstd50 5ML
Misc Info : vstd50,50822d.b,8260bh2o.m,2-br.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\50822d.b\8260bh2o.m
Meth Date : 22-Aug-2000 06:24 gordonk Quant Type: ISTD
Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-br.sub
Target Version: 4.04
Processing Host: PITPC073

KLG 8/22/00

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.881	6.881	(1.000)	648101	250.000	
* 69 Chlorobenzene-d5	119	9.965	9.965	(1.000)	146944	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.271	12 271	(1.000)	224422	250.000	
$ 39 Dibromofluoromethane	113	6.126	6 126	(0.890)	150214	250.000	243.3
$ 43 1,2-Dichloroethane-d4	65	6.485	6.485	(0.943)	187632	250.000	238 0
$ 59 Toluene-d8	98	8.535	8.535	(0.857)	623172	250.000	228.8
$ 80 Bromofluorobenzene	95	11.133	11.133	(1.117)	240273	250.000	239.7
2 Chloromethane	50	1.740	1.740	(0.253)	206643	250 000	287.5
4 Bromomethane	94	2 142	2.142	(0.311)	37357	250.000	391.6
3 Vinyl Chloride	62	1.850	1.850	(0.269)	195591	250.000	285.8
5 Chloroethane	64	2.239	2.239	(0.325)	41937	250.000	339.9
18 Methylene Chloride	84	3.760	3.760	(0.546)	156485	250.000	249.4
13 Acetone	43	3.218	3.218	(0.468)	73157	250.000	183.6
15 Carbon Disulfide	76	3.346	3.346	(0.486)	481542	250.000	299.8
12 1,1-Dichloroethene	96	3.103	3.103	(0.451)	142024	250.000	281.9
24 1,1-Dichloroethane	63	4.764	4.764	(0.692)	293224	250.000	255.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
19	trans-1,2-Dichloroethene	96	4.167	4.167	(0.606)	154737	250.000	254 8
28	cis-1,2-dichloroethene	96	5.530	5 530	(0.804)	174387	250.000	246.7
37	Chloroform	83	5.938	5.938	(0.863)	255107	250.000	246 9
45	1,2-Dichloroethane	62	6.570	6.570	(0.955)	224541	250.000	245.9
31	2-Butanone	43	5.591	5.591	(0.813)	108380	250.000	116.7
38	1,1,1-Trichloroethane	97	6.126	6.126	(0.890)	233040	250.000	266.3
41	Carbon Tetrachloride	117	6.315	6.315	(0.918)	186734	250.000	268.4
53	Bromodichloromethane	83	7.805	7.805	(1.134)	172824	250.000	227 5
49	1,2-Dichloropropane	63	7.495	7 495	(1.089)	168792	250.000	233.1
57	cis-1,3-Dichloropropene	75	8.262	8.262	(1.201)	218679	250.000	215.5
47	Trichloroethene	130	7.270	7.270	(1.057)	160688	250.000	250.2
67	Dibromochloromethane	129	9.399	9.399	(0.943)	133288	250.000	241.1
64	1,1,2-Trichloroethane	97	9.010	9.010	(0.904)	139351	250.000	230.8
42	Benzene	78	6.552	6.552	(0 952)	687003	250.000	249.4
61	trans-1,3-Dichloropropene	75	8.827	8.827	(0.886)	226948	250.000	225.7
77	Bromoform	173	10.805	10.805	(1.084)	84230	250.000	241.8
58	4-Methyl-2-Pentanone	43	8.438	8 438	(0.847)	185909	250.000	214.6
66	2-Hexanone	43	9.265	9.265	(0.930)	130026	250.000	212.8
65	Tetrachloroethene	164	9.144	9.144	(0.918)	122809	250.000	245.1
83	1,1,2,2-Tetrachloroethane	83	11.273	11.273	(0.919)	195120	250.000	217 6
60	Toluene	91	8.602	8.602	(0.863)	690830	250.000	236.4
70	Chlorobenzene	112	9.995	9.995	(1.003)	447544	250.000	236.9
72	Ethylbenzene	106	10 111	10.111	(1.015)	251107	250.000	241.8
76	Styrene	104	10.634	10.634	(1.067)	479705	250.000	249.8
M 75	Xylenes (total)	106				868212	250.000	764.6
73	m + p-Xylene	106	10.227	10.227	(1.026)	584354	500.000	493.0
74	Xylene-o	106	10 616	10.616	(1.065)	283857	250.000	250 0

670 128

GC/MS VOLATILE
QC DATA

Data File: \\qpitpa02\d\chem\hp5.1\50802d.b\BF50802K.D

Date : 02-AUG-2000 13:08

Client ID: 50NGBFB

Instrument: hp5.1

Sample Info: bfb 192-188-2 50ng

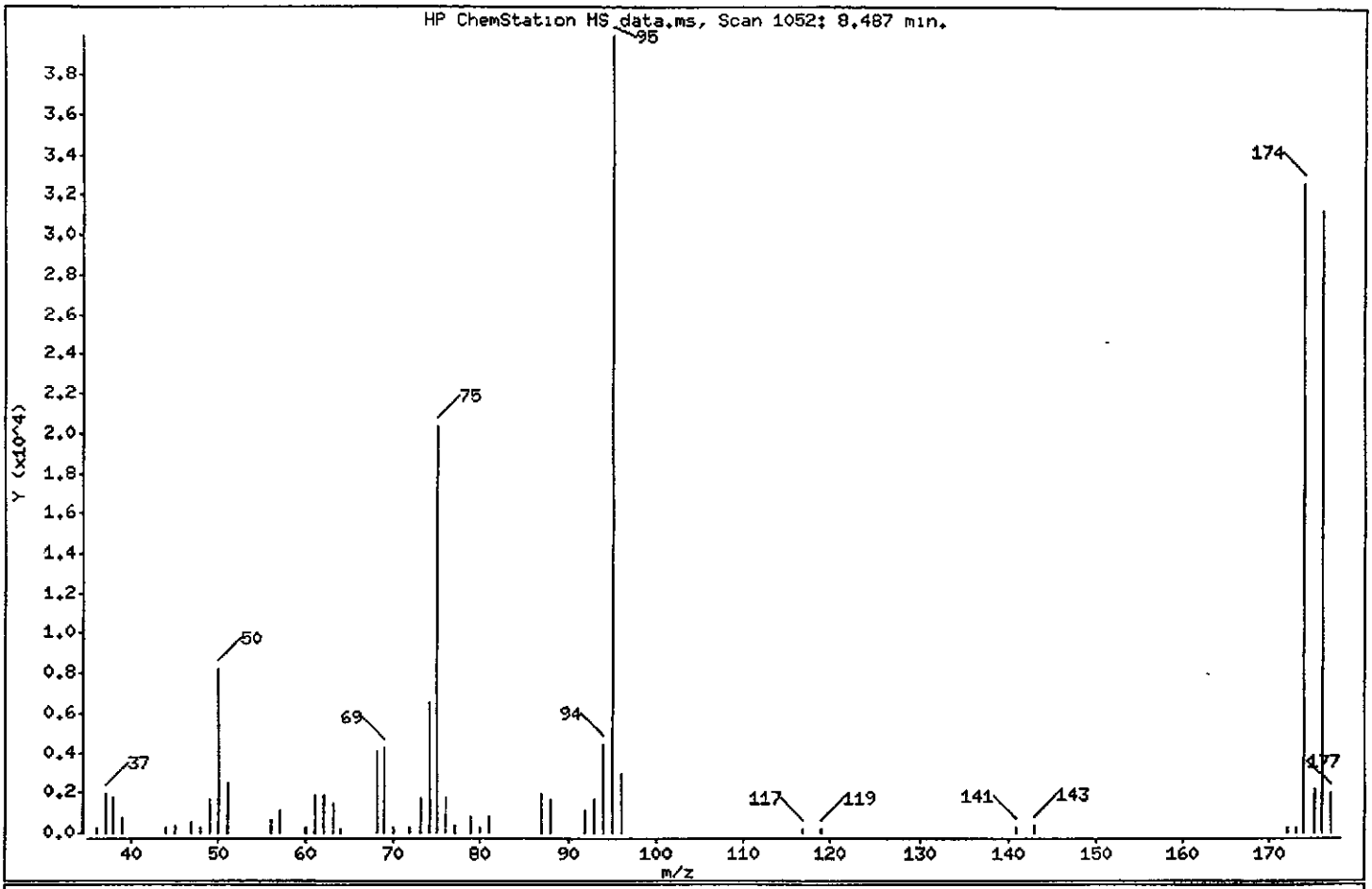
Volume Injected (uL): 2.0

Operator: 034635

Column phase: DB624 20m

Column diameter: 0.20

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.61
75	30.00 - 60.00% of mass 95	50.99
96	5.00 - 9.00% of mass 95	7.31
173	Less than 2.00% of mass 174	0.72 (0.87)
174	50.00 - 100.00% of mass 95	81.90
175	5.00 - 9.00% of mass 174	5.60 (6.84)
176	95.00 - 101.00% of mass 174	78.34 (95.65)
177	5.00 - 9.00% of mass 176	5.11 (6.52)

Data File: \\qpitpa02\d\chem\hp5.1\50802d.b\BF50802K.D

Date : 02-AUG-2000 13:08

Client ID: 50NGBFB

Instrument: hp5.1

Sample Info: bfb 192-188-2 50ng

Volume Injected (uL): 2.0

Operator: 034635

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF50802K.D
Spectrum: HP ChemStation MS data.ms, Scan 1052: 8.487 min.
Location of Maximum: 95.00
Number of points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	288	57.00	1130	75.00	20376	96.00	2922
37.10	1916	60.00	291	76.00	1706	116.90	205
38.10	1731	61.00	1834	77.00	336	118.90	221
39.10	704	62.00	1881	78.90	844	140.90	306
44.10	321	63.10	1469	79.90	300	142.90	379
45.00	358	64.00	225	81.00	872	171.90	244
47.00	573	68.00	4033	87.00	1965	173.10	286
48.00	286	69.00	4273	88.00	1695	173.90	32728
49.00	1672	70.00	312	92.00	1102	175.00	2239
50.00	8236	71.90	233	93.00	1620	176.00	31304
51.00	2485	73.00	1749	94.00	4379	177.00	2040
56.10	645	74.00	6496	95.00	39960		

Data File: \\qpitpa02\d\chem\hp5.i\50802d.b\BF50802K.D

Date : 02-AUG-2000 13:08

Client ID: 50NGBFB

Instrument: hp5.i

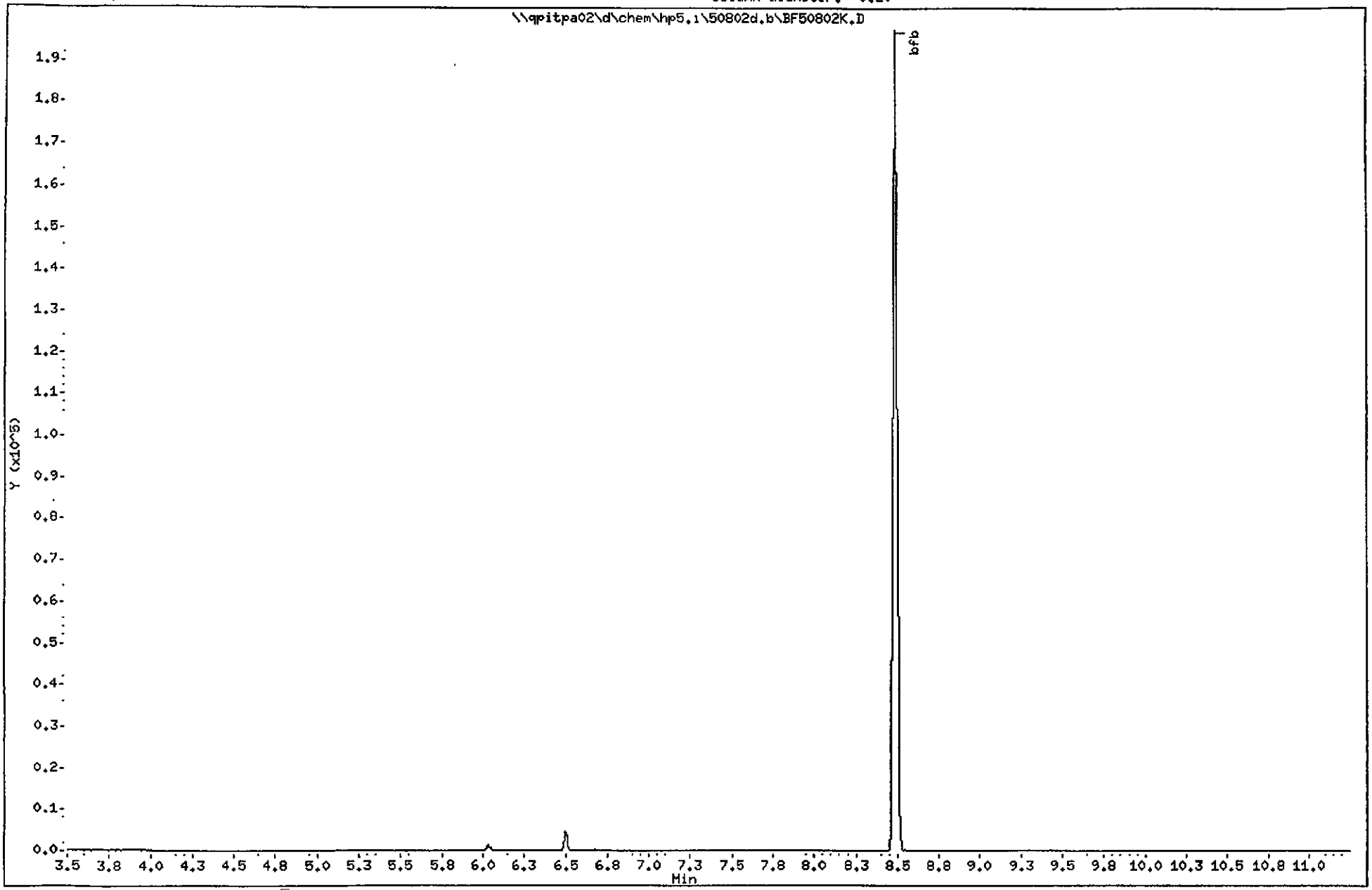
Sample Info: bfb 192-188-2 50ng

Volume Injected (uL): 2.0

Operator: 034635

Column phase: DB624 20m

Column diameter: 0.20



Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\BF50822.D

Date : 22-AUG-2000 05:25

Client ID: 50NGBFB

Instrument: hp5.i

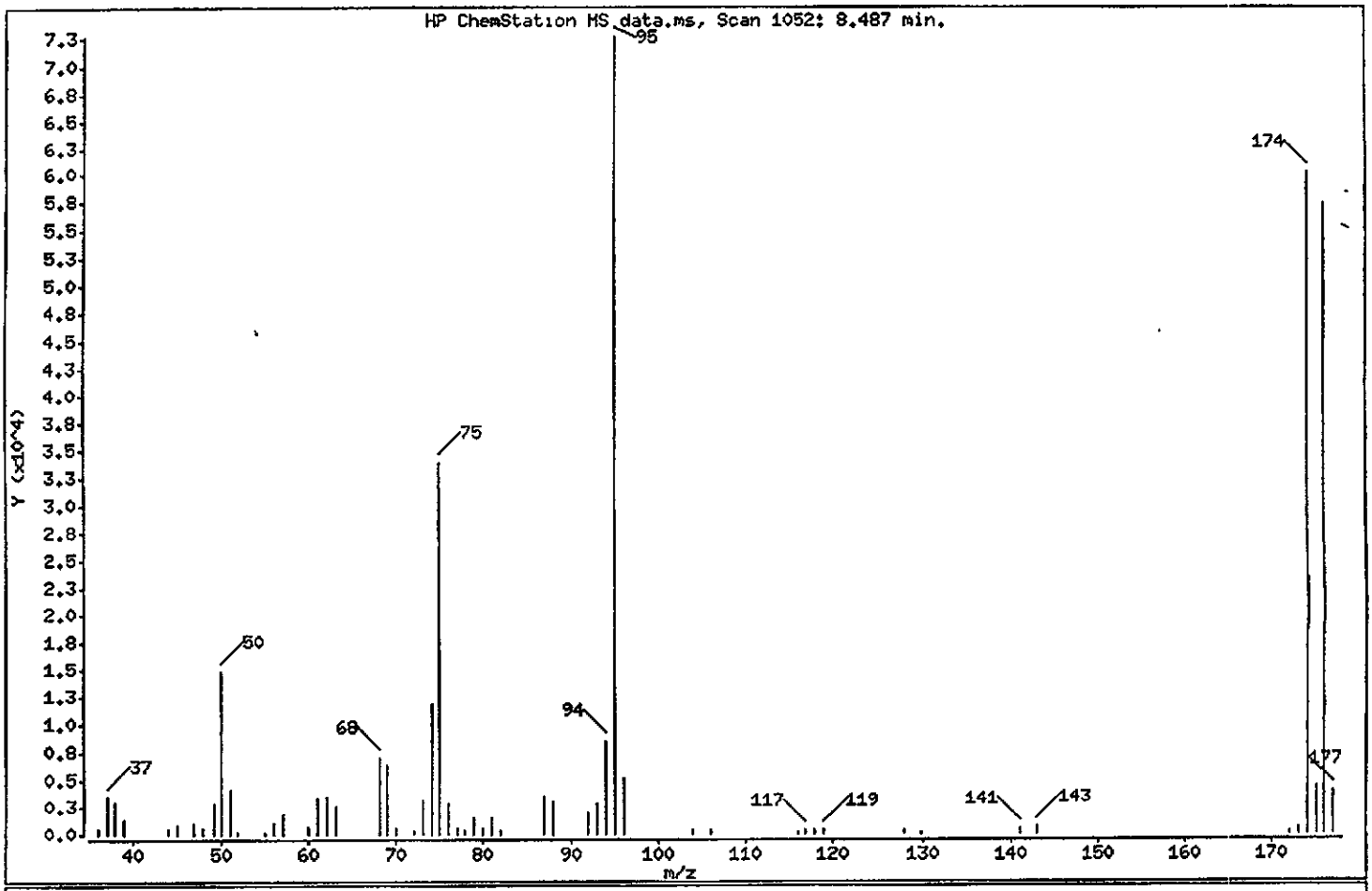
Sample Info: BFB 192-189-5 50NG

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.43
75	30.00 - 60.00% of mass 95	46.44
96	5.00 - 9.00% of mass 95	7.05
173	Less than 2.00% of mass 174	0.65 (0.78)
174	50.00 - 100.00% of mass 95	82.85
175	5.00 - 9.00% of mass 174	6.00 (7.24)
176	95.00 - 101.00% of mass 174	79.09 (95.47)
177	5.00 - 9.00% of mass 176	5.62 (7.11)

Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\BF50822.D

Date : 22-AUG-2000 05:25

Client ID: 50NGBFB

Instrument: hp5.i

Sample Info: BFB 192-189-5 50NG

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF50822.D
Spectrum: HP ChemStation MS data.ms, Scan 1052: 8.487 min.
Location of Maximum: 95.00
Number of points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	563	60.00	632	80.00	433	118.90	295
37.10	3500	61.00	3335	80.90	1585	128.00	270
38.10	3087	62.00	3501	81.90	332	129.90	245
39.10	1342	63.10	2437	87.00	3484	141.00	578
44.00	447	68.00	7022	88.00	2939	142.90	630
45.00	817	69.00	6381	92.00	2051	171.90	245
47.00	931	70.00	493	93.00	2896	173.00	469
48.00	482	72.00	366	94.00	8531	174.00	60176
49.10	2870	73.00	3125	95.00	72632	175.00	4357
50.10	14836	74.00	11860	96.00	5124	176.00	57448
51.10	4258	75.00	33728	103.90	276	177.00	4082
52.00	227	76.00	2928	106.00	290		
55.00	251	77.00	525	115.90	207		
56.00	1063	77.90	376	116.90	418		
57.00	1869	78.90	1529	117.90	293		

Data File: \\QPITPA02\D\chem\hp5.i\50822d.b\BF50822.D

Page 1

Date : 22-AUG-2000 05:25

Client ID: 50NGBFB

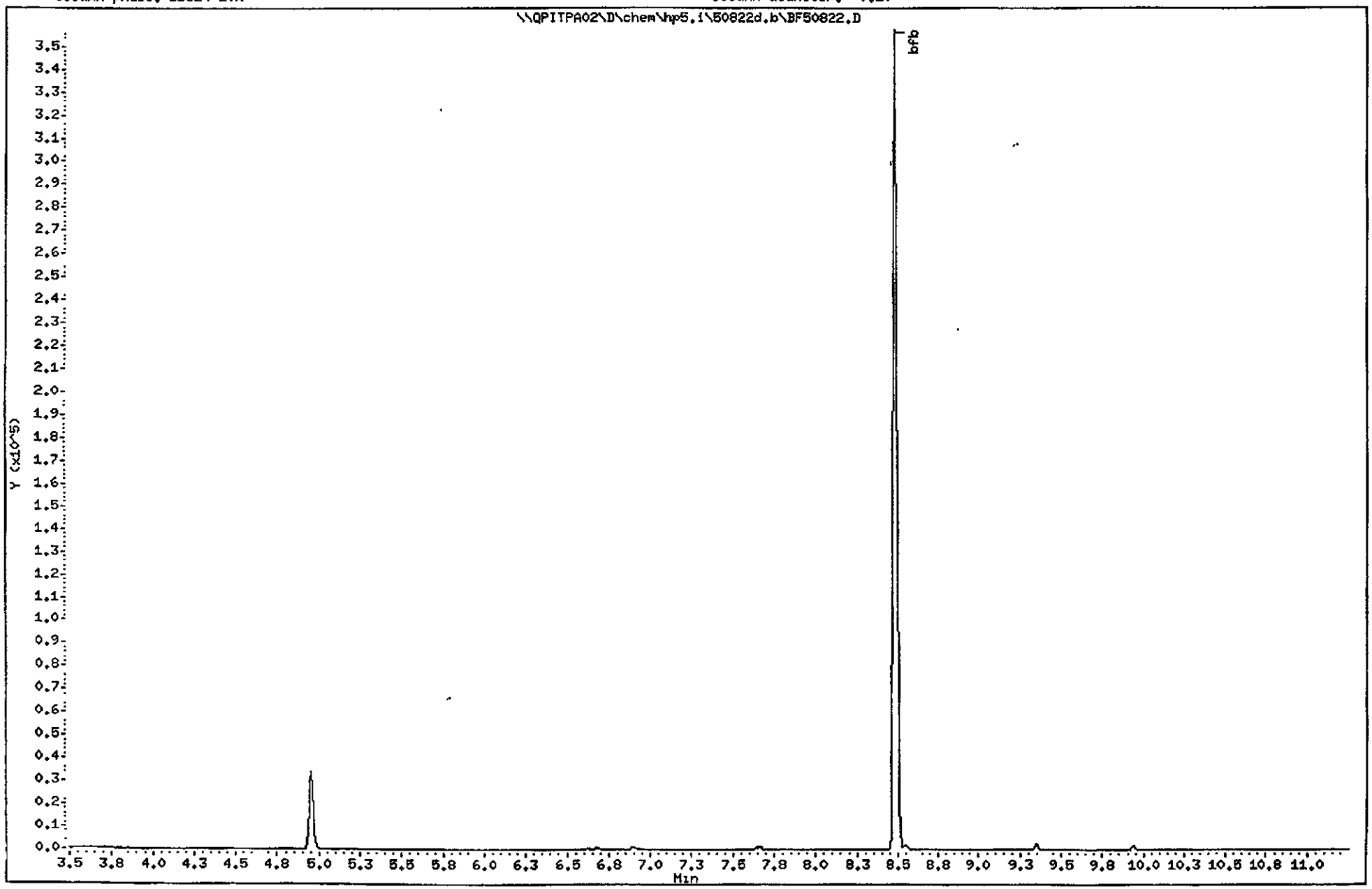
Instrument: hp5.i

Sample Info: BFB 192-189-5 50NG

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20



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1055

STL Pittsburgh

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C0H220000 106
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

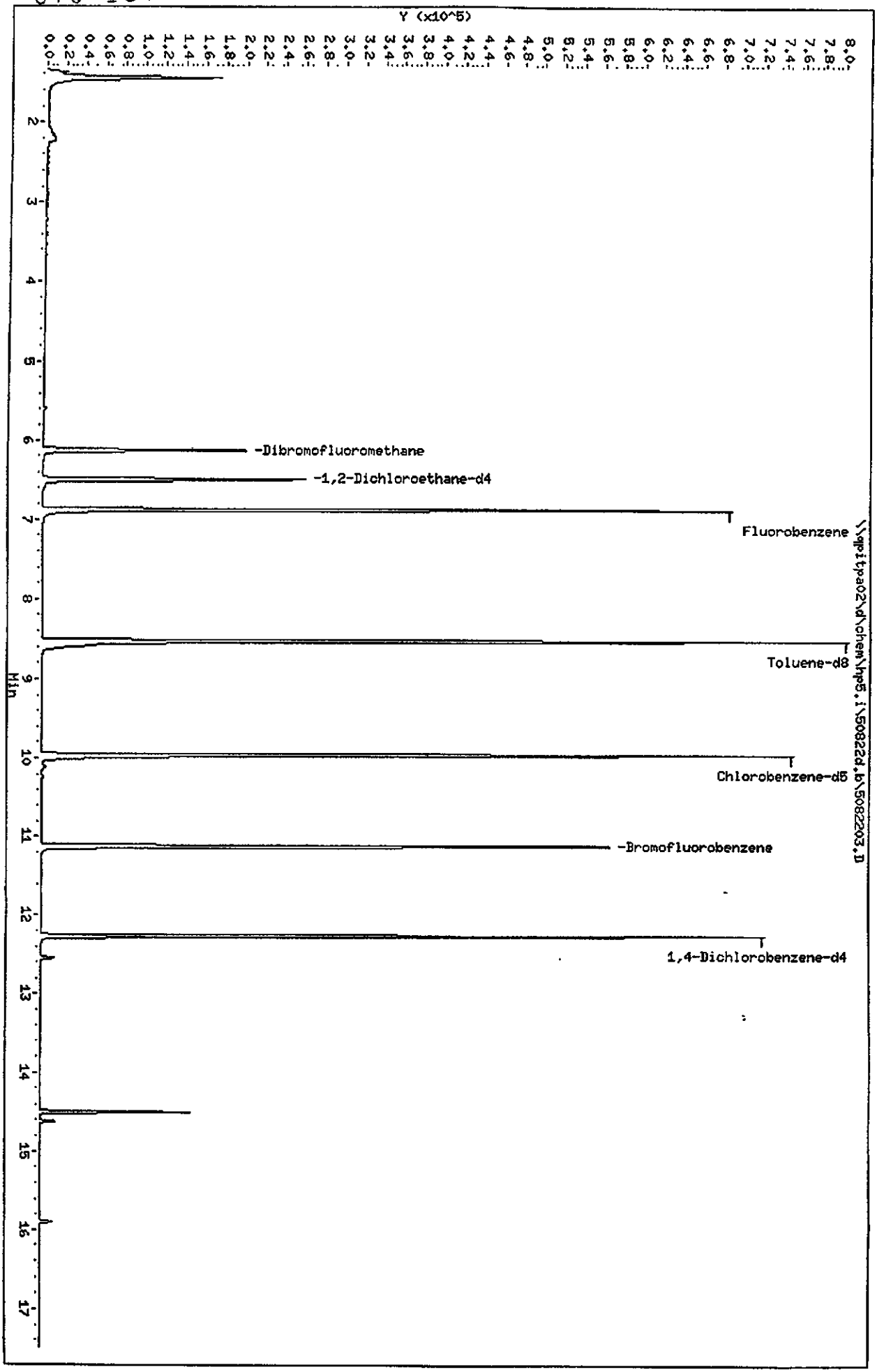
Sample WT/Vol: 5 / mL Date Received: 08/16/00
Work Order: DJ6X8101 Date Extracted:08/22/00
Dilution factor: 1 Date Analyzed: 08/22/00
Moisture %:NA

QC Batch: 0235134

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene	0.050	U
79-01-6	Trichloroethene	0.050	U
75-01-4	Vinyl chloride	0.050	U

670 136



Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\5082203.D
Date : 22-AUG-2000 07:41
Client ID:
Sample Info: tclp prep blank 8/21/00 (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.i
Operator: 10099
Column diameter: 0.20

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50822d.b\5082203.D
Lab Smp Id:
Inj Date : 22-AUG-2000 07:41 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : tclp prep blank 8/21/00 (1ml/10ml)/5ml
Misc Info : ,50822d.b,8260bh2o.m,2-br.sub
Comment :
Method : \\qpitpa02\d\chem\hp5.i\50822d.b\8260bh2o.m
Meth Date : 22-Aug-2000 06:24 gordonk Quant Type: ISTD
Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.04
Processing Host: PITPC073

KLG 8/22/00

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.879	6.881	(1.000)	617428	250.000	
* 69 Chlorobenzene-d5	119	9.963	9.965	(1.000)	143051	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.275	12.271	(1.000)	190736	250.000	
$ 39 Dibromofluoromethane	113	6.137	6.126	(0.892)	132267	224.851	44 97
$ 43 1,2-Dichloroethane-d4	65	6.495	6.485	(0.944)	173744	231.334	46.27
$ 59 Toluene-d8	98	8.533	8.535	(0.857)	600791	226.603	45.32
$ 80 Bromofluorobenzene	95	11.125	11.133	(1.117)	228734	234.388	46.88
3 Vinyl Chloride	62	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
31 2-Butanone	43	Compound Not Detected.					
37 Chloroform	83	Compound Not Detected.					
41 Carbon Tetrachloride	117	Compound Not Detected.					
42 Benzene	78	Compound Not Detected.					
45 1,2-Dichloroethane	62	Compound Not Detected.					
47 Trichloroethene	130	Compound Not Detected.					
65 Tetrachloroethene	164	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/L)
70 Chlorobenzene	112	Compound Not Detected.					

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

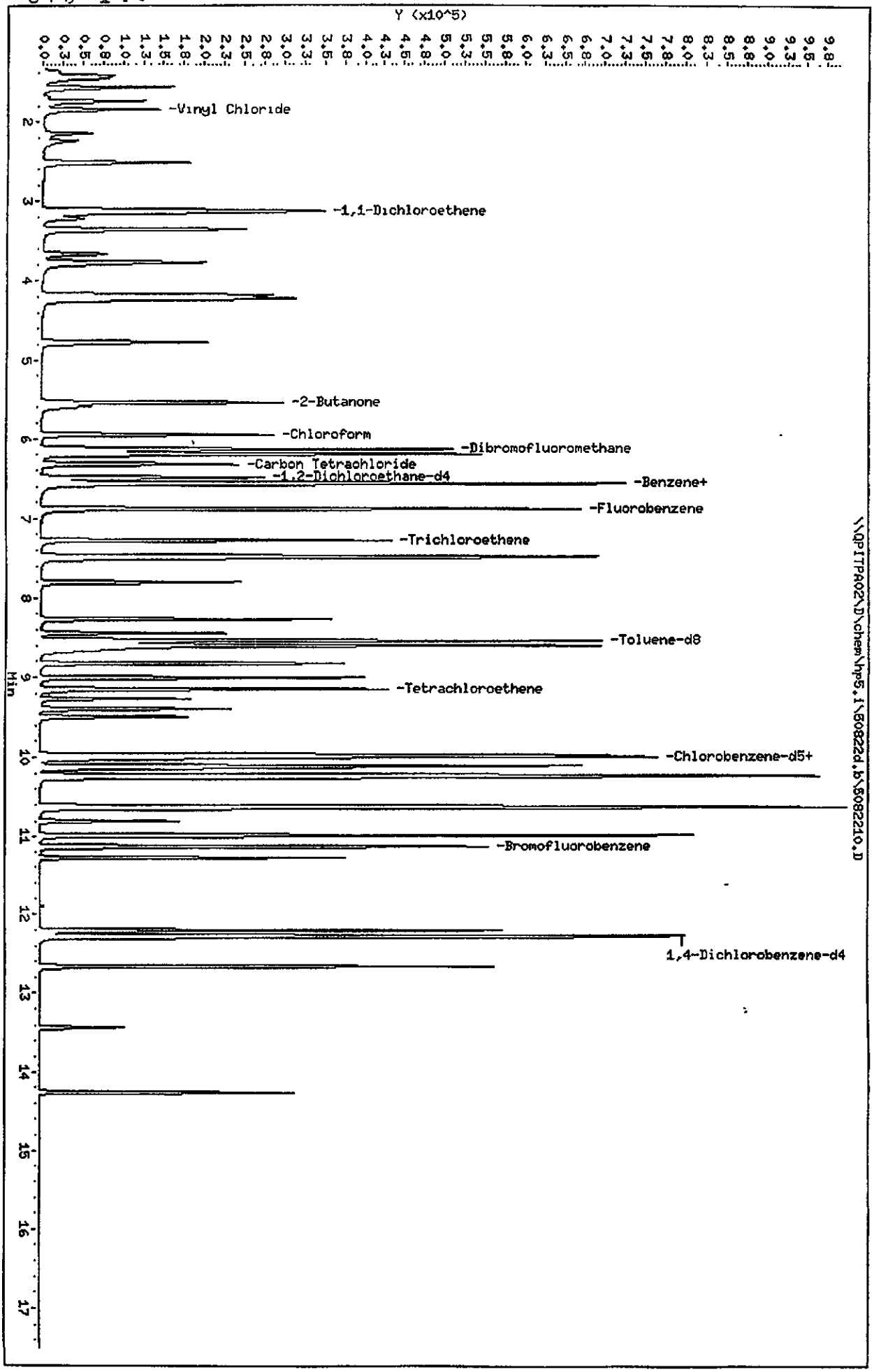
Matrix: (soil/water) SOLID Lab Sample ID:C0H220000 134
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 08/16/00
Work Order: DJ748101 Date Extracted:08/22/00
Dilution factor: 1 Date Analyzed: 08/22/00
Moisture %:NA

QC Batch: 0235134

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.441	
78-93-3	2-Butanone	0.201	
56-23-5	Carbon tetrachloride	0.479	
108-90-7	Chlorobenzene	0.418	
67-66-3	Chloroform	0.454	
107-06-2	1,2-Dichloroethane	0.441	
75-35-4	1,1-Dichloroethene	0.538	
127-18-4	Tetrachloroethene	0.432	
79-01-6	Trichloroethene	0.446	
75-01-4	Vinyl chloride	0.563	



Data File: \\QPITPA02\D\chem\hp5.i\508222d.b\5082210.D
Date : 22-AUG-2000 10:31
Client ID:
Sample Info: blank ms (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.i
Operator: 10099
Column diameter: 0.20

Data File: \\QPITPA02\D\chem\hp5.i\50822d.b\5082210.D
Report Date: 22-Aug-2000 10:50

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50822d.b\5082210.D
Lab Smp Id:
Inj Date : 22-AUG-2000 10:31 MS Autotune Date: 13-MAR-2000 09:53
Operator : 10099 Inst ID: hp5.i
Smp Info : blank ms (1ml/10ml)/5ml
Misc Info : ,50822d.b,8260bh2o.m,tclp.sub
Comment :
Method : \\QPITPA02\D\chem\hp5.i\50822d.b\8260bh2o.m
Meth Date : 22-Aug-2000 06:24 gordonk Quant Type: ISTD
Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tclp.sub
Target Version: 4.04
Processing Host: PITPC076

KLG 8/22/00

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/L)
* 46 Fluorobenzene	96	6.878	6.881	(1.000)	635208	250.000	
* 69 Chlorobenzene-d5	119	9.969	9.965	(1.000)	145916	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.274	12.271	(1.000)	197376	250.000	
$ 39 Dibromofluoromethane	113	6.130	6.126	(0.891)	148002	244.558	48.91
$ 43 1,2-Dichloroethane-d4	65	6.495	6.485	(0.944)	186499	241.367	48.27
$ 59 Toluene-d8	98	8.533	8.535	(0.856)	618497	228.701	45.74
$ 80 Bromofluorobenzene	95	11.131	11.133	(1.117)	228322	229.372	45.87
3 Vinyl Chloride	62	1.847	1.850	(0.269)	188733	281.412	56.28
12 1,1-Dichloroethene	96	3.119	3.103	(0.453)	132845	269.005	53.80
31 2-Butanone	43	5.589	5.591	(0.813)	91348	100.324	20.06
37 Chloroform	83	5.948	5.938	(0.865)	230175	227.263	45.45
41 Carbon Tetrachloride	117	6.325	6.315	(0.920)	163394	239.670	47.93
42 Benzene	78	6.556	6.552	(0.953)	595074	220.444	44.09
45 1,2-Dichloroethane	62	6.580	6.570	(0.957)	197298	220.473	44.09
47 Trichloroethene	130	7.274	7.270	(1.057)	140416	223.063	44.61
65 Tetrachloroethene	164	9.147	9.144	(0.918)	107404	215.910	43.18

Data File: \\QPITPA02\D\chem\hp5.i\50822d.b\5082210.D
Report Date: 22-Aug-2000 10:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (UG/L)
70 Chlorobenzene	112	9 993	9.995	(1.002)	392461	209.229	41.84

GC/MS VOLATILE
MISCELLANEOUS

GC/MS Volatile Run Log

STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8380

Committed To Your Success

Method: 624 Inst. ID HP5

Analyst KLG & RW Reviewed by: _____ Date: _____

Std: 192-188-2 BFB Std: 192-187-1 Lvl Std: 192-187-2 surr Std: 192-187-8 VOA Std: _____

Std: _____ Std: _____ Std: _____ Std: _____ Std: _____

Date	File ID	Lot No. /Sample No.	Vol. /Wt.	pH	Port#	Comments
8/2/00	1. BF50802	BFB	50ng			0820 624
	2. QL50802	QC Check 20ppb	5ml			624
	3. IA50802	VStd5 Bonus	5ml			
	4. IB50802	VStd20 Bonus	5ml			624
	5. IC50802	VStd100 Bonus	5ml			
	6 ID50802	VStd200 Bonus	5ml			
	7. BF50802K	BFB	50ng			8260B
	8. CC50802K	VSTD50	5ml			8260B
	9. IA50802K	VSTD5	5ml			
	10. IB50802K	VSTD20	5ml			
	11. ID50802K	VSTD100	5ml			
	12. IE50802K pH 8/2/00	VSTD200	5ml			
	13. 2A50802K	VSTD5	5ml			
	14. 2B50802K	VSTD20	5ml			
	15. 3A50802K	VSTD5	5ml			
	16					
	17					
	18					
	19					
	20					
	21					
	22.					

GC/MS Volatile Run Log

Method: 8260B Inst. ID HP5

STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8380

Analyst KLG Reviewed by: _____ Date: _____

Std: A2-189-SBFB Std: 192-189-Int Std: A2-189-ZSwn Std: 192-188-DMTBE/CSZ Std: A2-188-INOA

Std: 192-186 Ketones Std: 192-187-4MS Std: _____ Std: _____ Std: _____

Date	File ID	Lot No. /Sample No.	Vol. /Wt.	pH	Port#	Comments
8/22/00	1. BF50822	BFB	50ng			0525
	2. CC50822	VSTD50	5ml			
	3. WB50822	VBLK	5ml			
	4. 5082201	Blank MS	5ml			
	5. 5082202	COH170241-007	2ml/5ml	1		need 4X total
	6. 5082203	TCLP Prep Blank 8/21/00	(1ml/10ml)/5ml	5		
	7. 5082204	COH170241-007	(2ml/8ml)/5ml	1		two diluted
	8. 5082205	Blank MS	(1ml/10ml)/5ml	5		fails
	9. 5082206	COH170113-001	(1ml/10ml)/5ml	5		
	10. 5082207	COH160154-001	(1ml/10ml)/5ml	5		
	11. 5082208	COH160154-002	(1ml/10ml)/5ml	5		
	12. 5082209	COH160154-003	(1ml/10ml)/5ml	5		
	13. 5082210	Blank MS	(1ml/10ml)/5ml	5		
	14. 5082211	COH160154-001 MS	(1ml/10ml)/5ml	5		
	15. 5082212	COH160154-001 MSD	(1ml/10ml)/5ml	5		
	16					
	17					
	18					
	19					
	20					
	21					
	22.					

ZHE Leachate Worksheet
(Method 1311)

P023501

STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8380

STL Committed To Your Success

670 149

	Lab Sample ID #	Client ID	Weight (gm)	Vessel	Extraction Fluid No. / Volume	pH	On Date	On Time	On Initials	Off Date	Off Time	Off Initials
1.	COH160154	BIK	—	55	TCLP #1	4.93	8/21/2000	09:50	WT	8/22/2000	06:25	WT
2.	↓	001	25.0g	XX	↓	5.31	↓	↓	↓	↓	↓	↓
3.		002	↓	22		5.26						
4.	↓	003		G		5.17						
5.	COH170113	001		AA	↓	5.87	↓	↓	↓	↓	↓	↓
6.	—											
7.												
8.												
9.												
10.												
11.												
12.					WT 8/21/2000							
13.												
14.												
15.												
16.												
17.												
18.												

Extract(s) (Record line number from above)	Extract(s) Received Date	Time	Analyst	Location	Extract(s) Relinquished Date	Time	Analyst	Location
All Above	8/22/2000	07:15	B Trout	Org Prep	8/22/2000	07:20	B Trout	CLP-01
All Above	8/22/00	0720	Kathy Gordon	CLP01	8/22/00	1130	Kathy Gordon	N401

• = Sample determined to have free-liquid, % solid determination was performed
<5 = Extraction Fluid No. 1 5.7 mL Glacial Acetic Acid dil 500mL + 64.3 mL of 1 N Na OH dil to 1 L (pH 4.93+ 0.05)

Room Temp: 19 Tumbler RPMs: 30 (30±2)

PH Calibration	(4.0)	(7.0)	(10)
Date 8/21/2000	4.00	7.02	10.04
Date 8/22/2000	4.00	7.02	10.05

Reviewed by: Ken Date: 8-22-00 Comments

PSR024 8/21/00 4:53:10 MT SAMPLE CUSTODIAN REMOVAL REQUEST PAGE 001

REQUESTED BY: **TROUTB**

METHOD: QK Volatile Organics, GC/MS (8260B)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
1A,B CLP1	DHX40-1-02	___ ___ ___	260549	399411	A-58-QK	COH160154	001		SOLID	0 3	1
1A,B CLP1	DHX47-1-02	___ ___ ___	260550	399411	A-58-QK	COH160154	002		SOLID	0 3	1
1A,B CLP1	DHX4A-1-02	___ ___ ___	260551	399411	A-58-QK	COH160154	003		SOLID	0 3	1

COH170113-001

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Ken Duda	B Trout	8/21/2000 07:20
B Trout	Ken Duda	8/21/2000 09:40

***** END OF REPORT *****

GC/MS SEMIVOLATILE DATA

GC/MS SEMIVOLATILE
QC SUMMARY

670 150

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0H170113

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
01	INTRA-LAB QC	59	53	92	52	61	67	00
02	DF/S1/0228/GRAB/006	55	54	94	47	54	68	00
03	METHOD BLK. DJ700101	66	64	100	57	70	60	00
04	LCS DJ700102	76	75	100	69	77	68	00
05	LAB MS/MSD D	43	43	86	36	43	63	00
06	LAB MS/MSD S	46	46	94	39	47	69	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(32-112)
SRG02	= 2-Fluorobiphenyl	(30-110)
SRG03	= Terphenyl-d14	(10-144)
SRG04	= 2-Fluorophenol	(13-110)
SRG05	= Phenol-d5	(10-113)
SRG06	= 2,4,6-Tribromophenol	(21-122)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Lot #: C0H220000 WO #: DJ700102
BATCH: 0235112

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.186	74	28- 110	
2,4-Dinitrotoluene	0.250	0.155	62	47- 131	
Hexachlorobenzene	0.250	0.182	73	57- 128	
Hexachlorobutadiene	0.250	0.171	68	36- 116	
Hexachloroethane	0.250	0.200	80	30- 110	
Nitrobenzene	0.250	0.189	76	45- 130	
Pentachlorophenol	0.250	0.192	77	10- 140	
Pyridine	0.250	0.122	49	10- 148	
2,4,5-Trichlorophenol	0.250	0.181	72	41- 125	
2,4,6-Trichlorophenol	0.250	0.173	69	46- 135	
Cresols (total)	0.750	0.607	81	29- 144	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

670 152 SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0H160154 WO #: DHX4011C
BATCH: 0235112

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	ND	0.107	43	18- 110	
2,4-Dinitrotoluene	0.250	ND	0.136	54	31- 131	
Hexachlorobenzene	0.250	ND	0.176	71	36- 132	
Hexachlorobutadiene	0.250	ND	0.103	41	18- 116	
Hexachloroethane	0.250	ND	0.102	41	18- 110	
Nitrobenzene	0.250	ND	0.119	48	10- 211	
Pentachlorophenol	0.250	ND	0.190	76	10- 140	
Pyridine	0.250	ND	0.124	50	10- 148	
2,4,5-Trichlorophenol	0.250	ND	0.143	57	24- 143	
2,4,6-Trichlorophenol	0.250	ND	0.140	56	36- 135	
Cresols (total)	0.750	ND	0.391	52	25- 144	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0H160154 WO #: DHX4011D
BATCH: 0235112

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.100	40	6.6	36	18- 110	
2,4-Dinitrotoluene	0.250	0.120	48	12	32	31- 131	
Hexachlorobenzene	0.250	0.165	66	6.4	22	36- 132	
Hexachlorobutadiene	0.250	0.0968	39	6.3	32	18- 116	
Hexachloroethane	0.250	0.0960	38	6.0	33	18- 110	
Nitrobenzene	0.250	0.111	44	7.0	50	10- 211	
Pentachlorophenol	0.250	0.173	69	8.9	56	10- 140	
Pyridine	0.250	0.114	45	9.1	65	10- 148	
2,4,5-Trichlorophenol	0.250	0.135	54	5.8	22	24- 143	
2,4,6-Trichlorophenol	0.250	0.130	52	7.2	27	36- 135	
Cresols (total)	0.750	0.355	47	9.6	33	25- 144	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

670 154 SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DJ700101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT SDG Number:

Lab File ID: S0823002. Lot Number: C0H170113

Date Analyzed: 08/23/00 Time Analyzed: 23:32

Matrix: SOLID Date Extracted:08/21/00

GC Column: DB5MS ID: .25 Extraction Method: 1311/3520C

Instrument ID: 71 Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	DHX40103	S0825021.	08/25/00	19:58
02	LAB MS/MSD	DHX4011C S	S0824001.	08/24/00	18:56
03	LAB MS/MSD	DHX4011D D	S0824002.	08/24/00	19:30
04	DF/S1/0228/GRAB/006	DJ0QL103	S0824005.	08/24/00	21:12
05	CHECK SAMPLE	DJ700102 C	S0823001.	08/23/00	22:58
06					
07					
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30					

COMMENTS:

FORM IV

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C4H170113

Lab File ID: S0823DFT DFTPP Injection Date: 08/23/00

Instrument ID: 71 DFTPP Injection Time: 1917

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	57.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	53.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	23.2
365	Greater than 1.0% of mass 198	2.67
441	Present, but less than mass 443	15.1
442	Greater than 40.0% of mass 198	92.2
443	17.0 - 23.0% of mass 442	17.3 (18.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	S0823CC2	08/23/00	1935
02	SSTD20	SSTD20	S0823CC1	08/23/00	2009
03	SSTD80	SSTD80	S0823CC3	08/23/00	2043
04	SSTD120	SSTD120	S0823CC4	08/23/00	2116
05	SSTD160	SSTD160	S0823CC5	08/23/00	2150
06					
07					
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FORM 5

670 156 SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID: S0823DFT DFTPP Injection Date: 08/23/00

Instrument ID: 71 DFTPP Injection Time: 1917

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	57.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	53.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	23.2
365	Greater than 1.0% of mass 198	2.67
441	Present, but less than mass 443	15.1
442	Greater than 40.0% of mass 198	92.2
443	17.0 - 23.0% of mass 442	17.3 (18.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	S0823CC2	08/23/00	1935
02	INTRA-LAB CH	DJ700102	S0823001	08/23/00	2258
03	INTRA-LAB BL	DJ700101	S0823002	08/23/00	2332
04					
05					
06					
07					
08					
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FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: CUH101L3

Lab File ID: S0824DF1 DFTPP Injection Date: 08/24/00

Instrument ID: 71 DFTPP Injection Time: 1515

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	55.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	23.9
365	Greater than 1.0% of mass 198	5.32
441	Present, but less than mass 443	13.8
442	Greater than 40.0% of mass 198	86.5
443	17.0 - 23.0% of mass 442	17.0 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	S0824CCC	08/24/00	1530
02	SSTD20	SSTD20	S0824C01	08/24/00	1604
03	SSTD80	SSTD80	S0824C03	08/24/00	1638
04	SSTD120	SSTD120	S0824C04	08/24/00	1712
05	SSTD160	SSTD160	S0824C05	08/24/00	1746
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FORM 5

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID: S0824DF1 DFTPP Injection Date: 08/24/00

Instrument ID: 71 DFTPP Injection Time: 1515

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	52.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	55.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	23.9
365	Greater than 1.0% of mass 198	5.32
441	Present, but less than mass 443	13.8
442	Greater than 40.0% of mass 198	86.5
443	17.0 - 23.0% of mass 442	17.0 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	S0824CCC	08/24/00	1530
02	DF/S1/0228/G	DJ0QL103	S0824005	08/24/00	2112
03					
04					
05					
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FORM V SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID (Standard): S0823CC2 Date Analyzed: 08/23/00

Instrument ID: 71 Time Analyzed: 1935

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	147014	5.23	543040	6.80	257929	9.90
	UPPER LIMIT	294028	5.73	1086080	7.30	515858	10.40
	LOWER LIMIT	73507	4.73	271520	6.30	128965	9.40
	CLIENT SAMPLE NO.						
01	INTRA-LAB CH	96216	5.24	397562	6.82	191210	9.93
02	INTRA-LAB BL	89960	5.25	380795	6.82	180111	9.93
03							
04							
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

670 160

FORM 8

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID (Standard): S0823CC2 Date Analyzed: 08/23/00

Instrument ID: 71 Time Analyzed: 1935

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	367100	13.24	428185	19.91	372130	23.29
	UPPER LIMIT	734200	13.74	856370	20.41	744260	23.79
	LOWER LIMIT	183550	12.74	214093	19.41	186065	22.79
	CLIENT SAMPLE NO.						
01	INTRA-LAB CH	282814	13.27	261450	19.94	267824	23.32
02	INTRA-LAB BL	268738	13.28	254204	19.94	250103	23.32
03							
04							
05							
06							
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID (Standard): S0824CCC Date Analyzed: 08/24/00

Instrument ID: 71 Time Analyzed: 1530

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	197135	5.15	716872	6.71	383278	9.80
	UPPER LIMIT	394270	5.65	1433744	7.21	766556	10.30
	LOWER LIMIT	98568	4.65	358436	6.21	191639	9.30
	CLIENT SAMPLE NO.						
01	DF/S1/0228/G	247526	5.16	921037	6.72	497429	9.79
02							
03							
04							
05							
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18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C0H170113

Lab File ID (Standard): S0824CCC Date Analyzed: 08/24/00

Instrument ID: 71 Time Analyzed: 1530

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	652627		13.12		712357		19.78		607120		23.15	
	UPPER LIMIT	1305254		13.62		1424714		20.28		1214240		23.65	
	LOWER LIMIT	326314		12.62		356179		19.28		303560		22.65	
	CLIENT SAMPLE NO.												
01	DF/S1/0228/G	844110		13.12		824467		19.78		778808		23.14	
02													
03													
04													
05													
06													
07													
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18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

GC/MS SEMIVOLATILE
SAMPLE DATA

UXB INTERNATIONAL

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

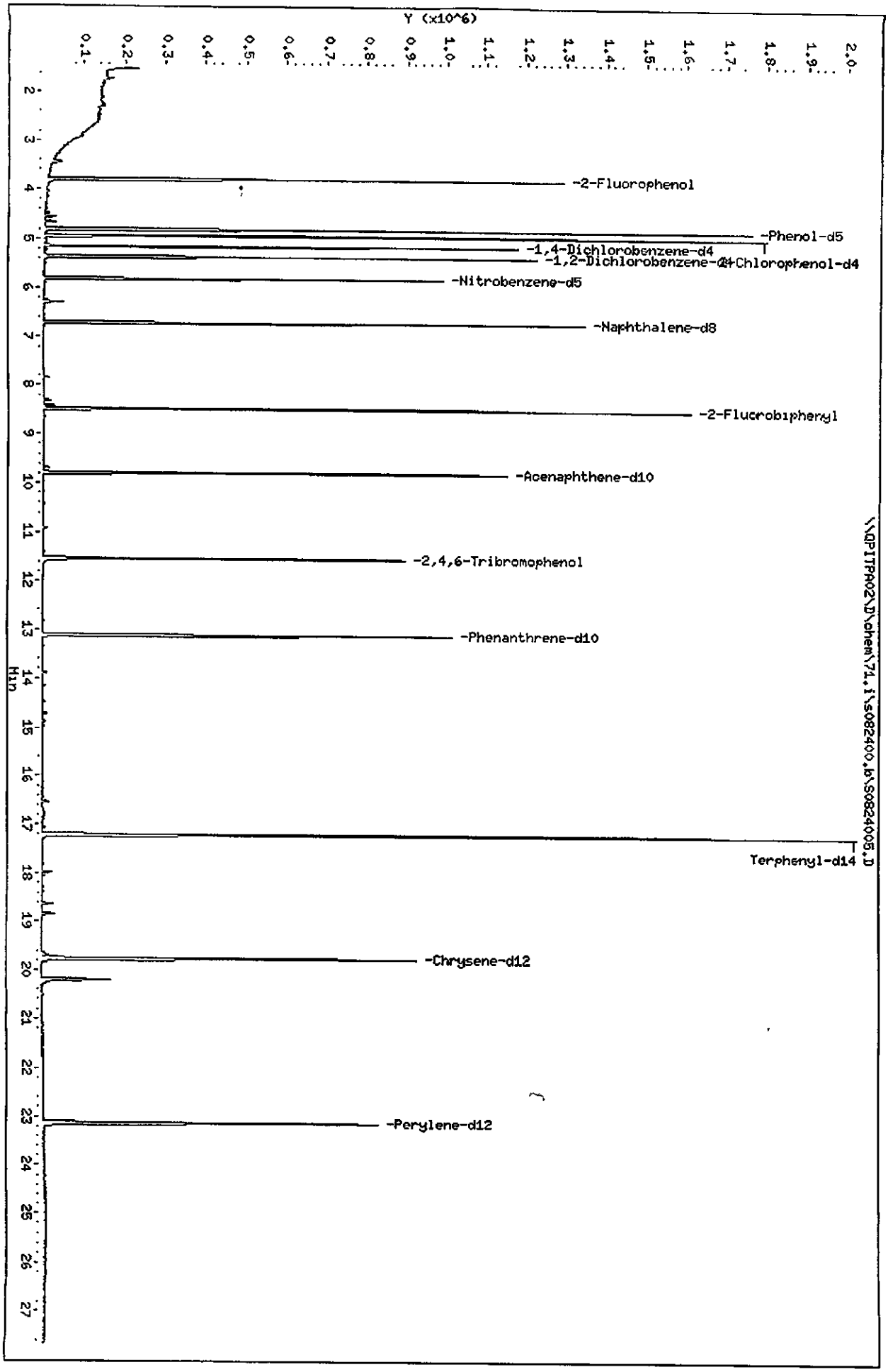
Matrix: (soil/water) SOLID Lab Sample ID:C0H170113 001
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL Date Received: 08/17/00
Work Order: DJ0QL103 Date Extracted:08/21/00
Dilution factor: 1 Date Analyzed: 08/24/00
Moisture %:20

QC Batch: 0235112

Client Sample Id: DF/S1/0228/GRAB/006

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U



Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824005.D
Date : 24-AUG-2000 21:12
Client ID: DF/SI/0228/GRAB/006
Sample Info: c0h170113-001 8/21/00 8270c tclp
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 71.i
Operator: 045183
Column diameter: 0.25

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824005.D
Lab Smp Id: DJ0QL103 Client Smp ID: DF/S1/0228/GRAB/006
Inj Date : 24-AUG-2000 21:12
Operator : 045183 Inst ID: 71.i
Smp Info : c0h170113-001 8/21/00 8270c tclp
Misc Info : dj0ql103,s082400.b,8270clp.m,1-tclp.sub,
Comment :
Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
Meth Date : 25-Aug-2000 12:01 bachas Quant Type: ISTD
Cal Date : 24-AUG-2000 15:30 Cal File: S0824CCC.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.04
Processing Host: PITPC050

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)*gpc

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.001	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
gpc	1.000	gpc correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (mg/L)	
*	1 1,4-Dichlorobenzene-d4	152	5.155	5.153	(1.000)	247526	40.0000		(a)
*	2 Naphthalene-d8	136	6.715	6.713	(1 000)	921037	40 0000		(a)
*	3 Acenaphthene-d10	164	9.792	9 795	(1.000)	497429	40.0000		(a)
*	4 Phenanthrene-d10	188	13.120	13 123	(1.000)	844110	40.0000		(a)
*	5 Chrysene-d12	240	19.776	19.780	(1 000)	824467	40.0000		(a)
*	6 Perylene-d12	264	23 142	23.145	(1.000)	778808	40 0000		(a)
	10 Pyridine	79	Compound Not Detected.						
	28 1,4-Dichlorobenzene	146	Compound Not Detected						
M	34 Cresols, total	100	Compound Not Detected.						
	31 2-Methylphenol	108	Compound Not Detected.						
	35 4-Methylphenol	108	Compound Not Detected.						
	38 Hexachloroethane	117	Compound Not Detected						
	39 Nitrobenzene	77	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (mg/L)
59 Hexachlorobutadiene	224	Compound Not Detected					
69 2,4,6-Trichlorophenol	196	Compound Not Detected.					
70 2,4,5-Trichlorophenol	196	Compound Not Detected.					
91 2,4-Dinitrotoluene	165	Compound Not Detected.					
113 Hexachlorobenzene	283	Compound Not Detected.					
117 Pentachlorophenol	265	Compound Not Detected					
$ 172 Nitrobenzene-d5	82	5.822	5 821	(0 867)	450617	55 0814	0.13770(a)
$ 173 2-Fluorobiphenyl	172	8.483	8.481	(0.866)	873537	53.6185	0.13405(a)
$ 174 Terphenyl-d14	244	17.207	17.199	(0.870)	1509682	93.6611	0.23415(a)
$ 175 Phenol-d5	99	4.813	4.816	(0.934)	801605	80.2760	0.20069(a)
$ 176 2-Fluorophenol	112	3.808	3.807	(0.739)	552025	69.8732	0.17468(a)
$ 177 2,4,6-Tribromophenol	330	11.544	11 542	(0.880)	204668	102.032	0.25508(a)
$ 178 2-Chlorophenol-d4	132	4.946	4.945	(0.960)	639865	87.8816	0.21970(a)
$ 179 1,2-Dichlorobenzene-d4	152	5.368	5.367	(1.041)	243979	43 8067	0 10952(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

GC/MS SEMIVOLATILE
CALIBRATION DATA

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

670 169

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: COH170 13

Instrument ID: 71 Calibration Date(s): 08/23/00 08/23/00

Calibration Time(s): 1935 2150

LAB FILE ID: RRF20 =S0823CC1 RRF50 =S0823CC2
RRF80 =S0823CC3 RRF120=S0823CC4 RRF160=S0823CC5

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol	2.028	2.226	2.129	2.109	1.972	2.093	4.7
bis(2-Chloroethyl)ether	1.545	1.687	1.595	1.585	1.563	1.595	3.5
2-Chlorophenol	1.398	1.536	1.448	1.445	1.397	1.445	3.9
1,3-Dichlorobenzene	1.480	1.607	1.501	1.497	1.454	1.508	3.9
1,4-Dichlorobenzene	1.503	1.628	1.524	1.516	1.476	1.529	3.8
1,2-Dichlorobenzene	1.376	1.507	1.412	1.393	1.335	1.405	4.5
2-Methylphenol	1.285	1.420	1.372	1.407	1.410	1.379	4.0
2,2'-oxybis(1-Chloropropane)	2.551	2.702	2.588	2.584	2.582	2.601	2.2
4-Methylphenol	1.361	1.529	1.480	1.468	1.380	1.444	4.9
Hexachloroethane	0.544	0.601	0.564	0.564	0.562	0.567	3.7
Nitrobenzene	0.404	0.444	0.434	0.446	0.439	0.433	4.0
Isophorone	0.684	0.764	0.754	0.768	0.763	0.747	4.7
2-Nitrophenol	0.162	0.189	0.183	0.190	0.190	0.183	6.7
2,4-Dimethylphenol	0.334	0.367	0.356	0.370	0.368	0.359	4.2
bis(2-Chloroethoxy)methane	0.428	0.478	0.461	0.468	0.458	0.459	4.1
N-Nitroso-di-n-propylamine *	1.056	1.170	1.168	1.195	1.232	1.164	5.7*
2,4-Dichlorophenol	0.251	0.279	0.270	0.278	0.278	0.271	4.4
1,2,4-Trichlorobenzene	0.275	0.301	0.280	0.283	0.278	0.283	3.5
Naphthalene	1.043	1.138	1.068	1.085	1.036	1.074	3.8
4-Chloroaniline	0.393	0.440	0.422	0.434	0.429	0.424	4.3
Hexachlorobutadiene	0.149	0.165	0.152	0.156	0.152	0.155	3.9
4-Chloro-3-Methylphenol	0.265	0.301	0.300	0.318	0.324	0.302	7.7
2-Methylnaphthalene	0.611	0.698	0.668	0.686	0.674	0.667	5.1
Hexachlorocyclopentadiene *	0.322	0.356	0.340	0.360	0.352	0.346	4.5*
2,4,6-Trichlorophenol	0.333	0.375	0.351	0.371	0.357	0.357	4.7
2,4,5-Trichlorophenol	0.350	0.398	0.371	0.397	0.383	0.380	5.3
2-Chloronaphthalene	1.167	1.301	1.184	1.197	1.097	1.189	6.2
2-Nitroaniline	0.361	0.421	0.412	0.439	0.441	0.415	7.8
Dimethylphthalate	1.150	1.314	1.249	1.325	1.291	1.266	5.6
Acenaphthylene	1.646	1.929	1.811	1.876	1.801	1.813	5.9
2,6-Dinitrotoluene	0.219	0.286	0.280	0.302	0.299	0.277	12.1
3-Nitroaniline	0.271	0.339	0.331	0.358	0.362	0.332	11.0
Acenaphthene	1.018	1.178	1.114	1.157	1.132	1.120	5.5
2,4-Dinitrophenol *	0.057	0.104	0.115	0.137	0.149	0.112	31.9*
4-Nitrophenol *	0.126	0.163	0.159	0.173	0.172	0.159	12.2*
Dibenzofuran	1.419	1.639	1.531	1.603	1.575	1.553	5.5
2,4-Dinitrotoluene	0.261	0.346	0.339	0.373	0.375	0.339	13.7

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: COH170113

Instrument ID: 71 Calibration Date(s): 08/23/00 08/23/00

Calibration Time(s): 1935 2150

LAB FILE ID: RRF20 =S0823CC1 RRF50 =S0823CC2
RRF80 =S0823CC3 RRF120=S0823CC4 RRF160=S0823CC5

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Diethylphthalate	1.000	1.235	1.180	1.254	1.256	1.185	9.1
4-Chlorophenyl-phenylether	0.518	0.610	0.582	0.617	0.615	0.588	7.1
Fluorene	1.118	1.350	1.287	1.371	1.360	1.297	8.1
4-Nitroaniline	0.257	0.334	0.325	0.348	0.353	0.323	12.0
4,6-Dinitro-2-methylphenol	0.059	0.107	0.115	0.132	0.144	0.111	29.4
N-Nitrosodiphenylamine (1)	0.542	0.641	0.606	0.642	0.657	0.618	7.5
4-Bromophenyl-phenylether	0.188	0.228	0.210	0.227	0.232	0.217	8.4
Hexachlorobenzene	0.197	0.245	0.228	0.242	0.247	0.232	9.0
Pentachlorophenol	0.095	0.137	0.140	0.153	0.158	0.137	18.1
Phenanthrene	0.974	1.204	1.124	1.193	1.214	1.142	8.8
Anthracene	0.974	1.232	1.173	1.254	1.285	1.184	10.5
Carbazole	0.888	1.164	1.104	1.208	1.235	1.120	12.4
Di-n-Butylphthalate	0.980	1.320	1.287	1.393	1.422	1.280	13.8
Fluoranthene	0.880	1.185	1.157	1.271	1.313	1.161	14.6
Pyrene	1.043	1.038	0.970	1.002	0.978	1.006	3.3
Butylbenzylphthalate	0.430	0.465	0.441	0.463	0.471	0.454	3.9
3,3'-Dichlorobenzidine	0.428	0.476	0.466	0.464	0.452	0.457	-4.0
Benzo(a)Anthracene	0.951	1.030	1.001	1.032	1.028	1.008	3.4
Chrysene	0.902	0.972	0.950	0.986	0.980	0.958	3.5
bis(2-ethylhexyl)Phthalate	0.598	0.669	0.663	0.690	0.691	0.662	5.7
Di-n-octylphthalate	1.075	1.358	1.367	1.482	1.460	1.348	12.0
Benzo(b)fluoranthene	1.024	1.281	1.224	1.421	1.574	1.305	15.9
Benzo(k)fluoranthene	1.296	1.638	1.679	1.709	1.389	1.542	12.1
Benzo(a)pyrene	0.984	1.220	1.221	1.316	1.335	1.215	11.5
Indeno(1,2,3-cd)pyrene	1.337	1.667	1.714	1.887	1.903	1.702	13.4
Dibenz(a,h)anthracene	1.189	1.512	1.577	1.778	1.765	1.564	15.3
Benzo(g,h,i)perylene	1.126	1.361	1.382	1.532	1.597	1.400	13.0
Pyridine	1.663	1.744	1.739	1.654	1.479	1.656	6.5
N-Nitrosodimethylamine	0.964	1.084	1.048	1.020	0.888	1.001	7.7
Aniline	2.050	2.216	2.124	2.090	1.971	2.090	4.3
Benzyl Alcohol	0.992	1.113	1.084	1.114	1.106	1.082	4.8
Benzoic Acid	0.122	0.192	0.201	0.202	0.213	0.186	19.5
1-Methylnaphthalene	0.575	0.650	0.627	0.645	0.632	0.626	4.8
2,3,4,6-Tetrachlorophenol	0.238	0.298	0.285	0.312	0.305	0.288	10.2
2,3,5,6-Tetrachlorophenol	0.229	0.281	0.276	0.306	0.301	0.279	10.9
1,2-Diphenylhydrazine	0.958	1.120	1.013	1.072	1.106	1.054	6.4
Benzidine	0.338	0.349	0.306	0.309	0.312	0.323	6.1

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: . SAS No.: SDG No.: CUH70113

Instrument ID: 71 Calibration Date(s): 08/23/00 08/23/00

Calibration Time(s): 1935 2150

LAB FILE ID: RRF20 =S0823CC1 RRF50 =S0823CC2
RRF80 =S0823CC3 RRF120=S0823CC4 RRF160=S0823CC5

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Methyl methanesulfonate	0.475	0.480	0.494	0.494	0.494	0.487	1.9
2-Naphthylamine	0.846	0.915	0.738	0.720	0.671	0.778	12.8
7,12-dimethylbenz[a]anthrace	0.510	0.701	0.731	0.774	0.695	0.682	14.9
Nitrobenzene-d5	0.396	0.434	0.418	0.429	0.426	0.421	3.5
2-Fluorobiphenyl	1.301	1.397	1.290	1.333	1.270	1.318	3.7
Terphenyl-d14	0.856	0.844	0.798	0.822	0.794	0.823	3.3
Phenol-d5	1.858	2.020	1.918	1.914	1.827	1.907	3.9
2-Fluorophenol	1.442	1.555	1.453	1.438	1.379	1.453	4.4
2,4,6-Tribromophenol	0.093	0.119	0.113	0.124	0.125	0.115	11.3
2-Chlorophenol-d4	1.256	1.349	1.272	1.267	1.220	1.273	3.7
1,2-Dichlorobenzene-d4	0.887	0.943	0.890	0.880	0.838	0.888	4.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: \\QPITPA02\D\chem\71.i\s082300.b/S0823CC2.D
Report Date: 08/24/2000

INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0823CC2.D
Analysis Type: NONE

Injection Date: 23-AUG-2000 19:35
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s082300.b\

COMPOUND	%RSD
Benzo(b)fluoranthene	15.9
Benzo(k)fluoranthene	12.1
7,12-dimethylbenz[a]anthracen	14.9
Benzo(a)pyrene	11.5
Indeno(1,2,3-cd)pyrene	13.4
Dibenz(a,h)anthracene	15.3
Benzo(g,h,i)perylene	13.0

The average of all %RSD's in the initial calibration is 7.9

Data File: \\QPITPA02\D\chem\71.i\s082300.b/S0823CC2.D
Report Date: 08/24/2000

INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0823CC2.D
Analysis Type: NONE

Injection Date: 23-AUG-2000 19:35
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s082300.b\8270clp

COMPOUND	%RSD
N-Nitrosodimethylamine	7.7
Pyridine	6.5
Methyl methanesulfonate	1.9
2-Fluorophenol	4.4
Phenol-d5	3.9
Phenol	4.7
Aniline	4.3
bis(2-Chloroethyl)ether	3.5
2-Chlorophenol-d4	3.7
2-Chlorophenol	3.9
1,3-Dichlorobenzene	3.9
1,4-Dichlorobenzene	3.8
Benzyl Alcohol	4.8
1,2-Dichlorobenzene-d4	4.2
1,2-Dichlorobenzene	4.5
2-Methylphenol	4.0
2,2'-oxybis(1-Chloropropane)	2.2
4-Methylphenol	4.9
N-Nitroso-di-n-propylamine	5.7
Hexachloroethane	3.7
Nitrobenzene-d5	3.5
Nitrobenzene	4.0
Isophorone	4.7
2-Nitrophenol	6 7
2,4-Dimethylphenol	4.2
Benzoic Acid	19.5
bis(2-Chloroethoxy)methane	4.1
2,4-Dichlorophenol	4.4
1,2,4-Trichlorobenzene	3.5
Naphthalene	3.8
4-Chloroaniline	4.3
Hexachlorobutadiene	3.9
4-Chloro-3-Methylphenol	7.7
2-Methylnaphthalene	5.1
1-Methylnaphthalene	4.8
Hexachlorocyclopentadiene	4.5
2,4,6-Trichlorophenol	4.7
2,4,5-Trichlorophenol	5.3
2-Fluorobiphenyl	3.7

Data File: \\QPITPA02\D\chem\71.i\s082300.b/S0823CC2.D
Report Date: 08/24/2000

INITIAL CALIBRATION REPORT

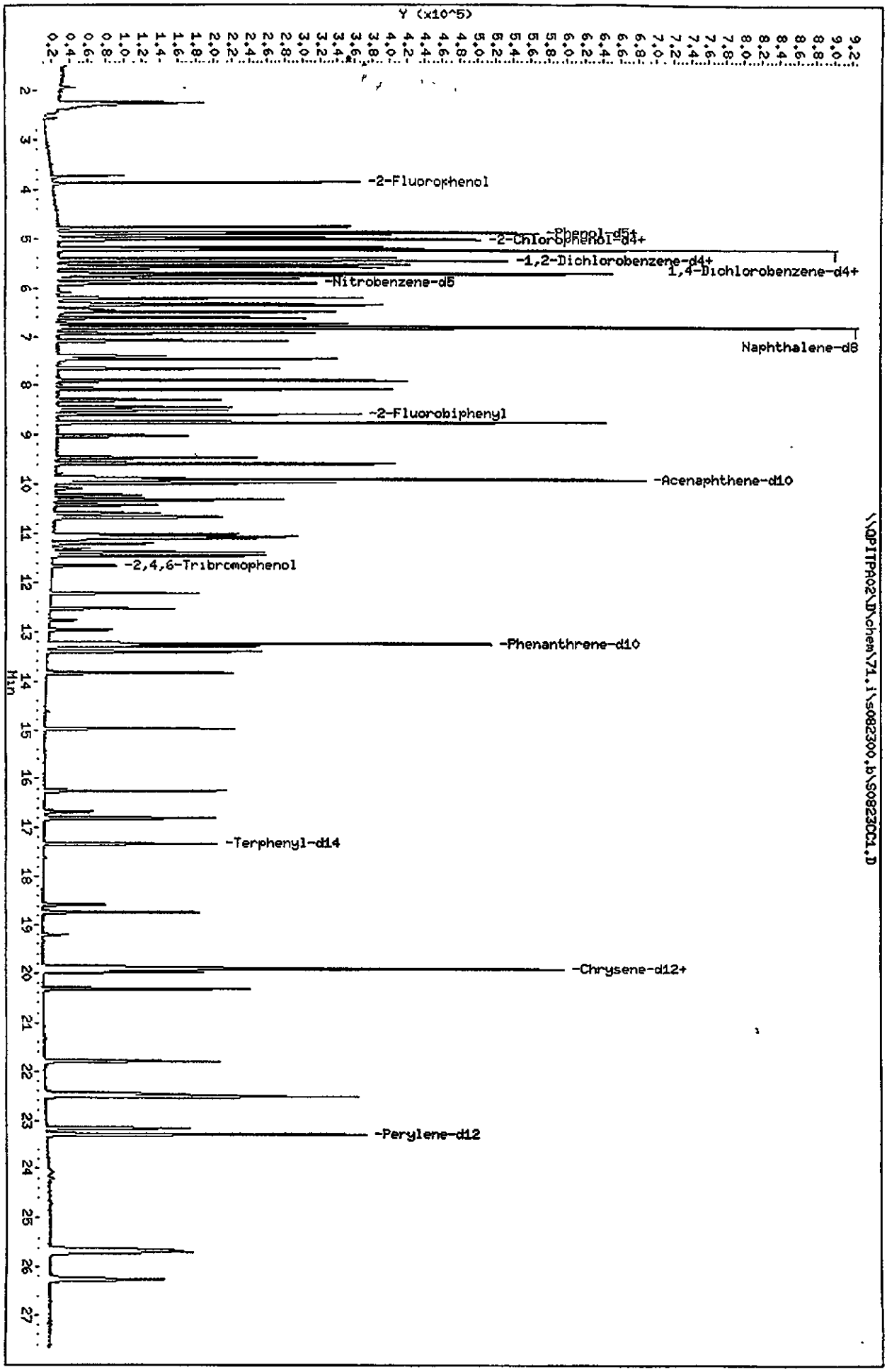
Instrument ID: 71.i
Lab File ID: S0823CC2.D
Analysis Type: NONE

Injection Date: 23-AUG-2000 19:35
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s082300.b\

COMPOUND	%RSD
2-Chloronaphthalene	6.2
2-Nitroaniline	7.8
Dimethylphthalate	5.6
Acenaphthylene	5.9
2,6-Dinitrotoluene	12.1
3-Nitroaniline	11.0
Acenaphthene	5.5
2,4-Dinitrophenol	31.9
4-Nitrophenol	12.2
Dibenzofuran	5.5
2,4-Dinitrotoluene	13.7
2,3,5,6-Tetrachlorophenol	10.9
2-Naphthylamine	12.8
2,3,4,6-Tetrachlorophenol	10.2
Diethylphthalate	9.1
Fluorene	8.1
4-Chlorophenyl-phenylether	7.1
4-Nitroaniline	12.0
4,6-Dinitro-2-methylphenol	29.4
N-Nitrosodiphenylamine (1)	7.5
1,2-Diphenylhydrazine	6.4
2,4,6-Tribromophenol	11.3
4-Bromophenyl-phenylether	8.4
Hexachlorobenzene	9.0
Pentachlorophenol	18.1
Phenanthrene	8.8
Anthracene	10.5
Carbazole	12.4
Di-n-Butylphthalate	13.8
Fluoranthene	14.6
Benzidine	6.1
Pyrene	3.3
Terphenyl-d14	3.3
Butylbenzylphthalate	3.9
Benzo(a)Anthracene	3.4
3,3'-Dichlorobenzidine	4.0
Chrysene	3.5
bis(2-ethylhexyl)Phthalate	5.7
Di-n-octylphthalate	12.0

Data File: \\QPITPA02\DX\chem\71.i\s082300.b\S0823001.D
Date : 23-AUG-2000 20:09
Client ID: SSTD20
Sample Info: sstd20(10 ug/ml) 194-188-3 8270/clp
Column phase: Hp5-MS

Instrument: 71.i
Operator: 045183
Column diameter: 0.25



Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823CC1.D
Report Date: 24-Aug-2000 08:19

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823CC1.D
Lab Smp Id: sstd20 Client Smp ID: SSTD20
Inj Date : 23-AUG-2000 20:09
Operator : 045183 Inst ID: 71.i
Smp Info : sstd20(10 ug/ml) 194-188-3 8270/clp
Misc Info : sstd20,s082300.b,8270clp.m,1-8270l.sub,1,1
Comment :
Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
Meth Date : 24-Aug-2000 08:19 BachaS Quant Type: ISTD
Cal Date : 23-AUG-2000 19:35 Cal File: S0823CC2.D
Als bottle: 94 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8270l.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	5.232	5.232	(1.000)	164744	40.0000	
* 2 Naphthalene-d8	136	6.802	6.802	(1.000)	606167	40.0000	
* 3 Acenaphthene-d10	164	9.901	9.901	(1.000)	278861	40.0000	
* 4 Phenanthrene-d10	188	13.245	13.245	(1.000)	407984	40.0000	
* 5 Chrysene-d12	240	19.912	19.912	(1.000)	349799	40.0000	
* 6 Perylene-d12	264	23.288	23.288	(1 000)	321713	40.0000	
13 N-Nitrosodimethylamine	74	2.224	2.224	(0.425)	79402	20.0000	19.260(M)
10 Pyridine	79	2.251	2.251	(0.430)	136957	20.0000	20.086(M)
19 Methyl methanesulfonate	80	3.731	3.731	(0.713)	39151	20 0000	19 500
22 Aniline	93	4.917	4.917	(0.940)	168909	20.0000	19.620
23 Phenol	94	4.890	4.890	(0.935)	167078	20 0000	19.382
24 bis(2-Chloroethyl)ether	93	4.986	4.986	(0.953)	127232	20.0000	19.367
25 2-Chlorophenol	128	5.029	5.029	(0.961)	115148	20.0000	19.350
27 1,3-Dichlorobenzene	146	5.189	5.189	(0.992)	121959	20.0000	19.640
28 1,4-Dichlorobenzene	146	5.248	5.248	(1.003)	123781	20.0000	19.649
29 1,2-Dichlorobenzene	146	5.462	5.462	(1.044)	113354	20.0000	19.596
30 Benzyl Alcohol	108	5.403	5.403	(1.033)	81721	20.0000	18.343
31 2-Methylphenol	108	5.547	5.547	(1.060)	105835	20.0000	18.635
32 2,2'-oxybis(1-Chloropropane)	45	5.590	5 590	(1.068)	210140	20.0000	19.611
33 N-Nitroso-di-n-propylamine	70	5.750	5.750	(1.099)	86973	20;0000	18.137
35 4-Methylphenol	108	5.707	5.707	(1.091)	112076	20.0000	18.852
38 Hexachloroethane	117	5.814	5.814	(1.111)	44773	20.0000	19.172
39 Nitrobenzene	77	5.921	5.921	(0.870)	122300	20.0000	18.631
44 Isophorone	82	6.204	6 204	(0.912)	207448	20.0000	18.332
45 2-Nitrophenol	139	6.322	6.322	(0.929)	48981	20.0000	17.682
46 2,4-Dimethylphenol	107	6.354	6.354	(0 934)	101231	20.0000	18.606

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.493	6.493	(0.954)	129613	20.0000	18.650
51 2,4-Dichlorophenol	162	6.615	6.615	(0.973)	76036	20.0000	18.498
52 Benzoic Acid	122	6.450	6.450	(0.948)	37106	20.0000	13.173 (M)
53 1,2,4-Trichlorobenzene	180	6.744	6 744	(0.991)	83496	20.0000	19.429
54 Naphthalene	128	6.829	6.829	(1.004)	316135	20.0000	19.421
55 4-Chloroaniline	127	6.931	6.931	(1.019)	119239	20.0000	18.565
59 Hexachlorobutadiene	225	7.091	7.091	(1.042)	45254	20.0000	19.293
62 4-Chloro-3-Methylphenol	107	7.657	7 657	(1.126)	80254	20.0000	17 550
65 2-Methylnaphthalene	142	7.892	7.892	(1.160)	185098	20.0000	18.299
66 1-Methylnaphthalene	142	8.079	8.079	(1.188)	174366	20.0000	18.383
67 Hexachlorocyclopentadiene	237	8 293	8.293	(0.838)	44889	20 0000	18.594
69 2,4,6-Trichlorophenol	196	8.432	8.432	(0.852)	46435	20.0000	18.644
70 2,4,5-Trichlorophenol	196	8.491	8.491	(0.858)	48753	20.0000	18.413
73 2-Chloronaphthalene	162	8.758	8.758	(0.885)	162703	20.0000	19.627
77 2-Nitroaniline	65	9.014	9.014	(0.910)	50365	20.0000	17.417
80 Dimethylphthalate	163	9.468	9.468	(0.956)	160410	20.0000	18.176
82 2,6-Dinitrotoluene	165	9.596	9.596	(0.969)	30576	20 0000	15.820
83 Acenaphthylene	152	9.580	9.580	(0.968)	229573	20.0000	18.164
85 3-Nitroaniline	138	9.858	9.858	(0.996)	37806	20.0000	16.321
86 Acenaphthene	153	9.970	9.970	(1.007)	141899	20.0000	18 175
87 2,4-Dinitrophenol	184	10.077	10.077	(1 018)	7895	20.0000	10.065
89 4-Nitrophenol	109	10.211	10.211	(1.031)	17526	20.0000	15 847
90 Dibenzofuran	168	10.307	10.307	(1.041)	197915	20 0000	18.274
91 2,4-Dinitrotoluene	165	10 419	10.419	(1 052)	36379	20.0000	15 399
95 2,3,5,6-Tetrachlorophenol	232	10.579	10.579	(1.069)	31913	20.0000	16.437
92 2,3,4,6-Tetrachlorophenol	232	10.675	10.675	(1.078)	33225	20.0000	16.561
96 2-Naphthylamine	143	10.649	10.649	(1.076)	117974	20.0000	21.748
97 Diethylphthalate	149	11.017	11.017	(1.113)	139453	20.0000	16.882
98 Fluorene	166	11.065	11.065	(1.118)	155827	20.0000	17.232
99 4-Chlorophenyl-phenylether	204	11.103	11.103	(1.121)	72209	20.0000	17.601
100 4-Nitroaniline	138	11.204	11.204	(1.132)	35849	20.0000	15 896
102 4,6-Dinitro-2-methylphenol	198	11.317	11.317	(0.854)	11965	20.0000	10.543
103 N-Nitrosodiphenylamine (1)	169	11.386	11.386	(0.860)	110472	20.0000	17 547
104 1,2-Diphenylhydrazine	77	11.450	11.450	(0.864)	195505	20.0000	18.189
112 4-Bromophenyl-phenylether	248	12.219	12.219	(0.923)	38336	20 0000	17.320
113 Hexachlorobenzene	284	12.524	12.524	(0.946)	40179	20.0000	16 979
117 Pentachlorophenol	266	12.962	12.962	(0.979)	19422	20.0000	13.952
122 Phenanthrene	178	13.293	13.293	(1.004)	198697	20.0000	17.063
123 Anthracene	178	13.400	13.400	(1.012)	198763	20.0000	16.464
126 Carbazole	167	13.833	13.833	(1.044)	181073	20.0000	15.855
130 Di-n-Butylphthalate	149	14.981	14.981	(1.131)	199819	20;0000	15.303
135 Fluoranthene	202	16.253	16.253	(1.227)	179634	20.0000	15 164
136 Benzidine	184	16.669	16.669	(0.837)	59109	20.0000	20.936
137 Pyrene	202	16.798	16.798	(0.844)	182414	20.0000	20.727
144 Butylbenzylphthalate	149	18.737	18.737	(0.941)	75227	20.0000	18.942
149 3,3'-Dichlorobenzidine	252	19.907	19.907	(1.000)	74872	20.0000	18.724
150 Benzo(a)Anthracene	228	19.869	19.869	(0.998)	166387	20.0000	18.864

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
151 Chrysene	228	19.971	19.971	(1.003)	157829	20.0000	18.839
153 bis(2-ethylhexyl)Phthalate	149	20.313	20.313	(1.020)	104637	20 0000	18 068
155 Di-n-octylphthalate	149	21.782	21.782	(0.935)	172942	20.0000	15 945
157 Benzo(b)fluoranthene	252	22.455	22.455	(0.964)	164753	20.0000	15.700
158 Benzo(k)fluoranthene	252	22.508	22.508	(0.967)	208444	20.0000	16 805
159 7,12-dimethylbenz[a]anthracen	256	22 514	22.514	(0.967)	81974	20.0000	14.942
167 Benzo(a)pyrene	252	23.160	23.160	(0.994)	158363	20.0000	16 202
169 Indeno(1,2,3-cd)pyrene	276	25.639	25.639	(1.101)	215137	20.0000	15.718
170 Dibenz(a,h)anthracene	278	25.687	25.687	(1.103)	191327	20.0000	15.206
171 Benzo(g,h,i)perylene	276	26.258	26.258	(1.128)	181204	20.0000	16.097
$ 172 Nitrobenzene-d5	82	5.900	5.900	(0.867)	120151	20.0000	18.840
$ 173 2-Fluorobiphenyl	172	8.581	8.581	(0.867)	181439	20.0000	19.742
$ 174 Terphenyl-d14	244	17.326	17.326	(0.870)	149649	20.0000	20.800
$ 175 Phenol-d5	99	4.879	4.879	(0.933)	153042	20.0000	19.478
$ 176 2-Fluorophenol	112	3.875	3 875	(0.741)	118803	20.0000	19.846
$ 177 2,4,6-Tribromophenol	330	11.658	11.658	(0.880)	18993	20.0000	16.227
$ 178 2-Chlorophenol-d4	132	5 013	5.013	(0.958)	103452	20.0000	19.731
$ 179 1,2-Dichlorobenzene-d4	152	5.446	5.446	(1.041)	73100	20.0000	19.996

QC Flag Legend

M - Compound response manually integrated.

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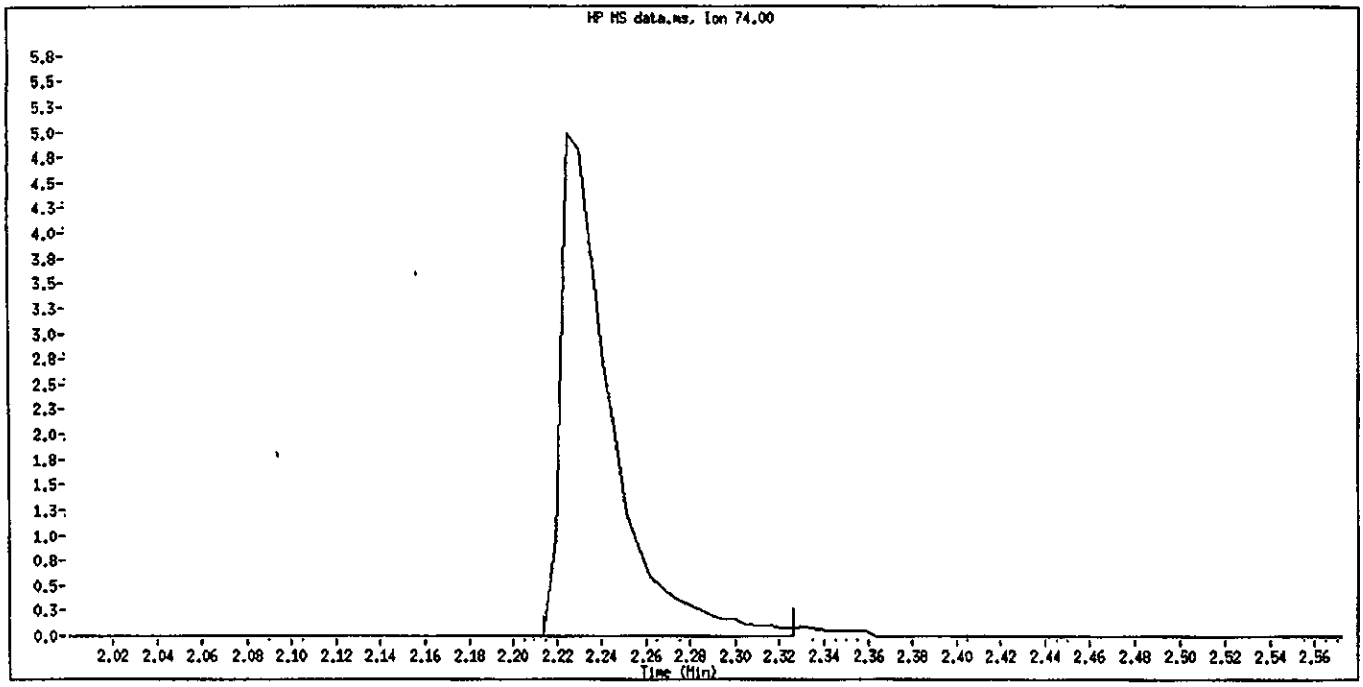
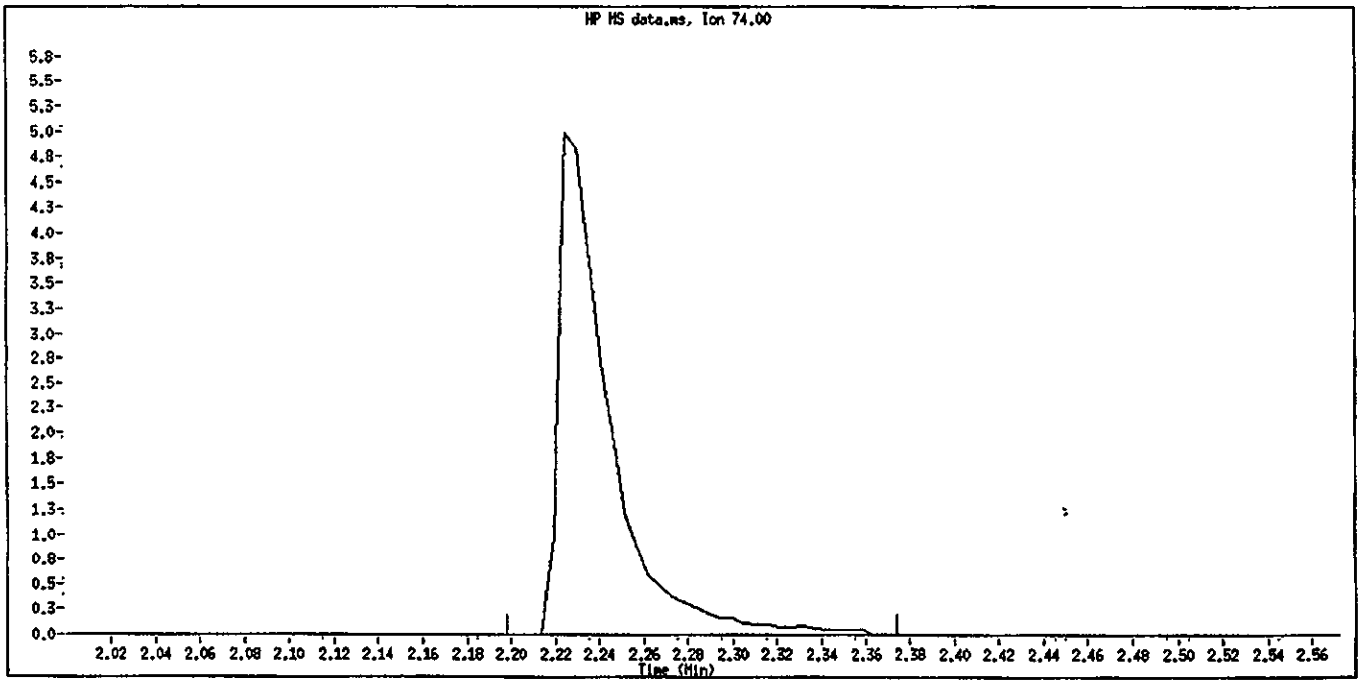
Client ID: SSTD20
Compound Name. N-Nitrosodimethylamine
CAS # 62-75-9
Report Date: 08/24/2000



Original Integration

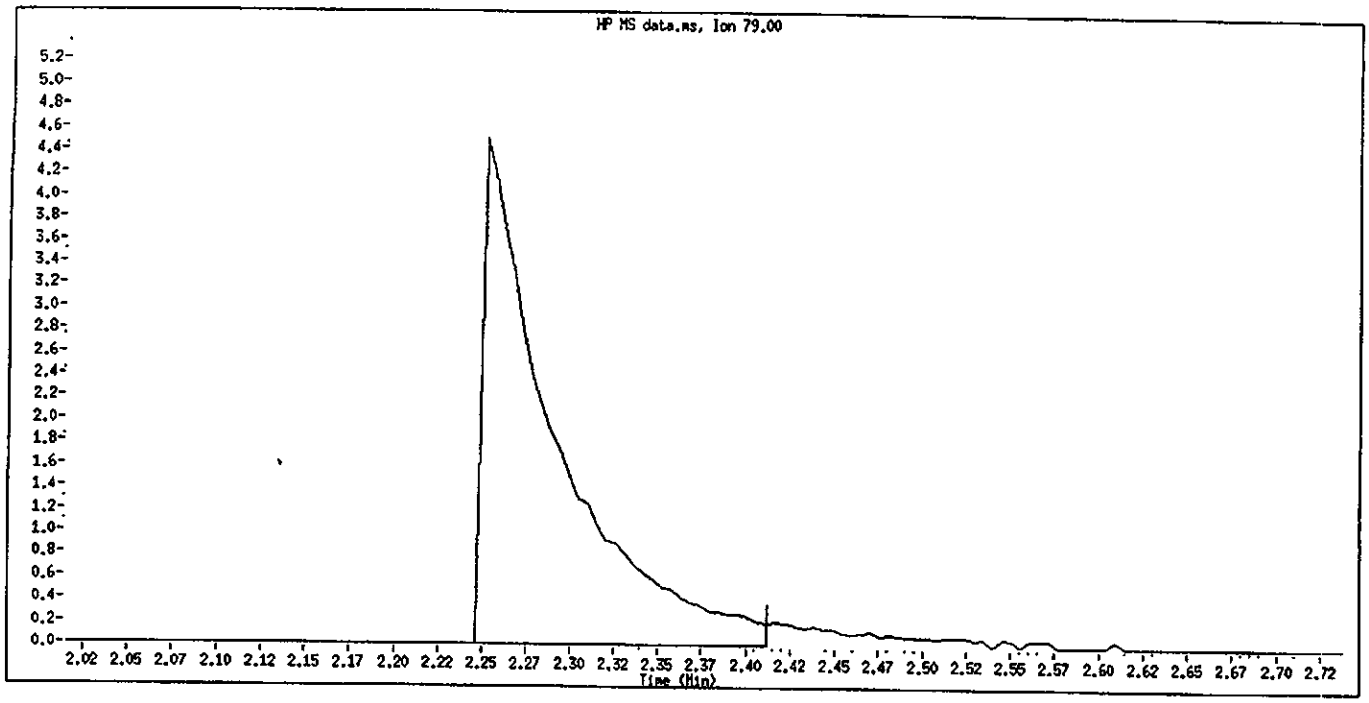


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

670 180

Data File Name: S0823CC1.D
Inj. Date and Time: 23-AUG-2000 20:09
Instrument ID: 71 i
Client ID: SSTD20
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 08/24/2000



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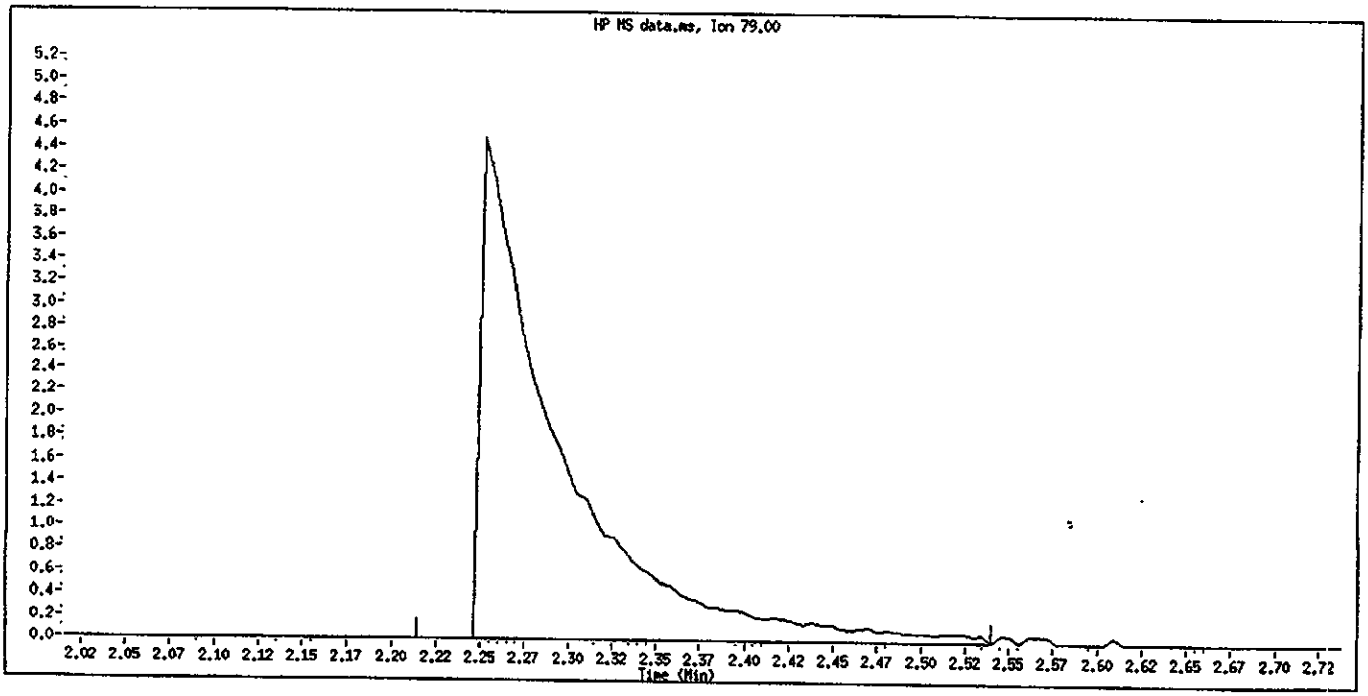
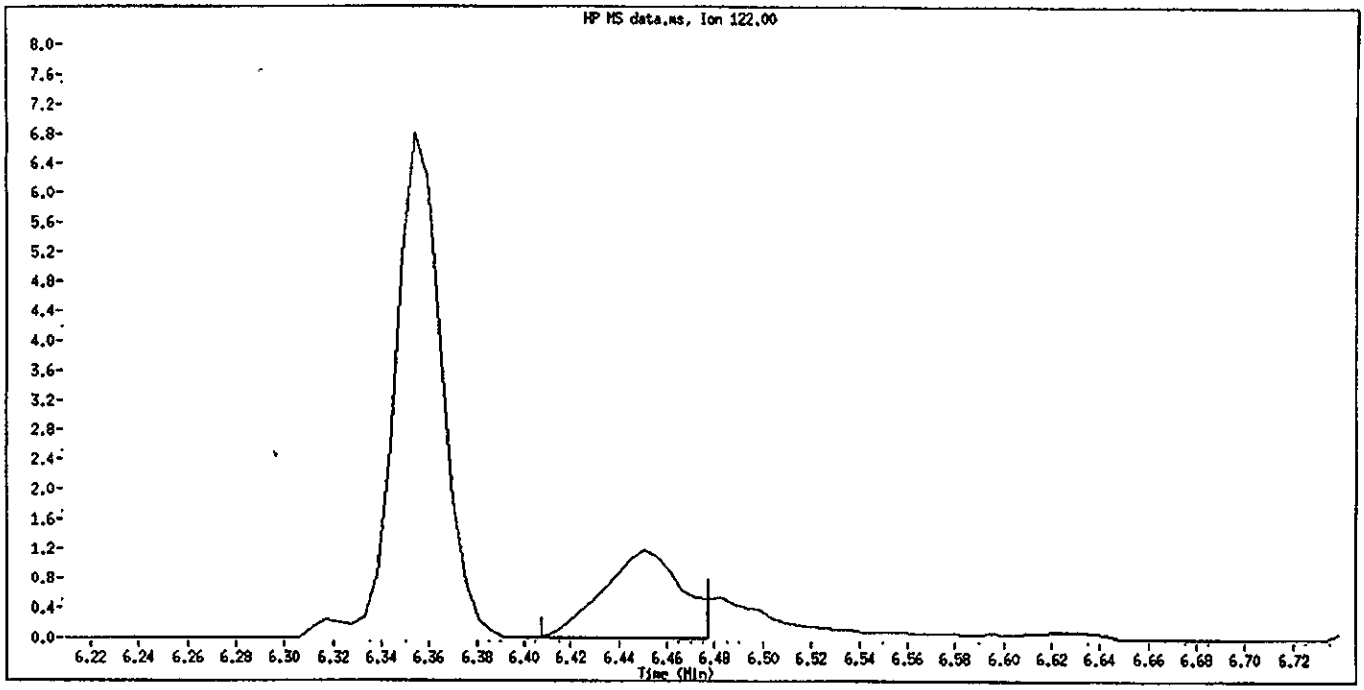


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0823CC1.D
Inj Date and Time: 23-AUG-2000 20:09
Instrument ID: 71.1
Client ID: SSTD20
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 08/24/2000



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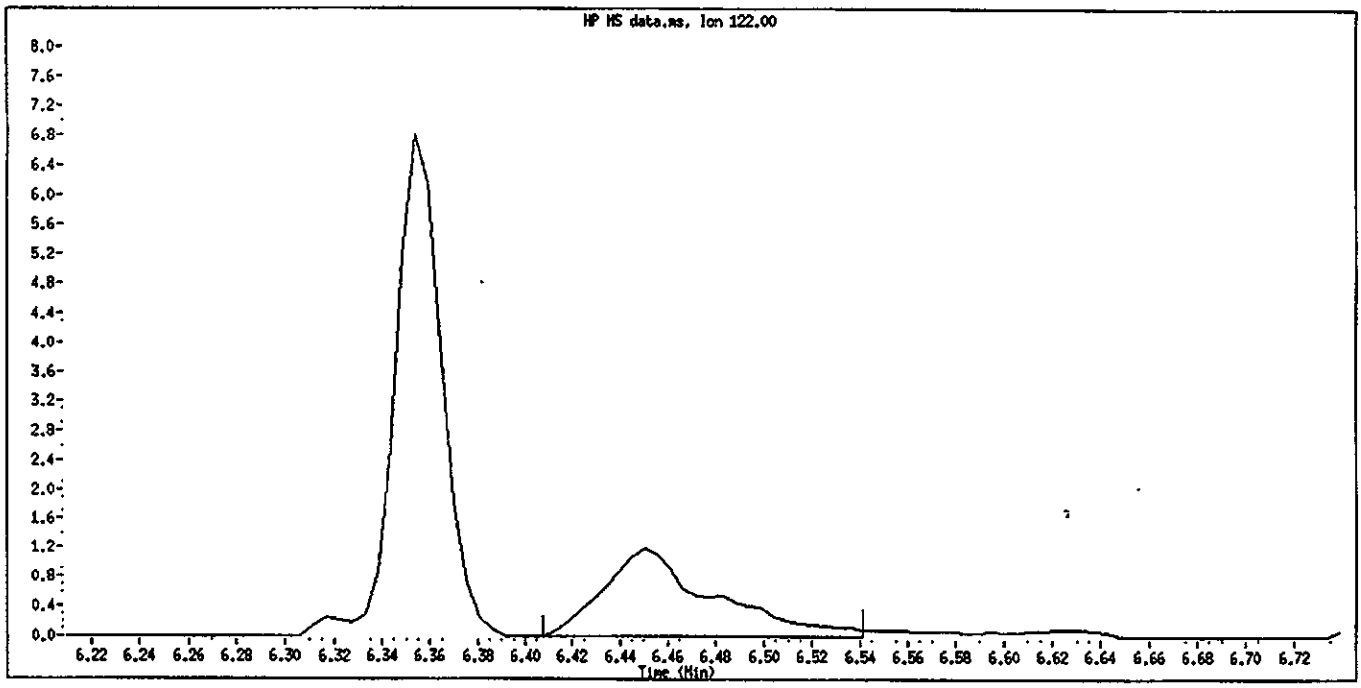
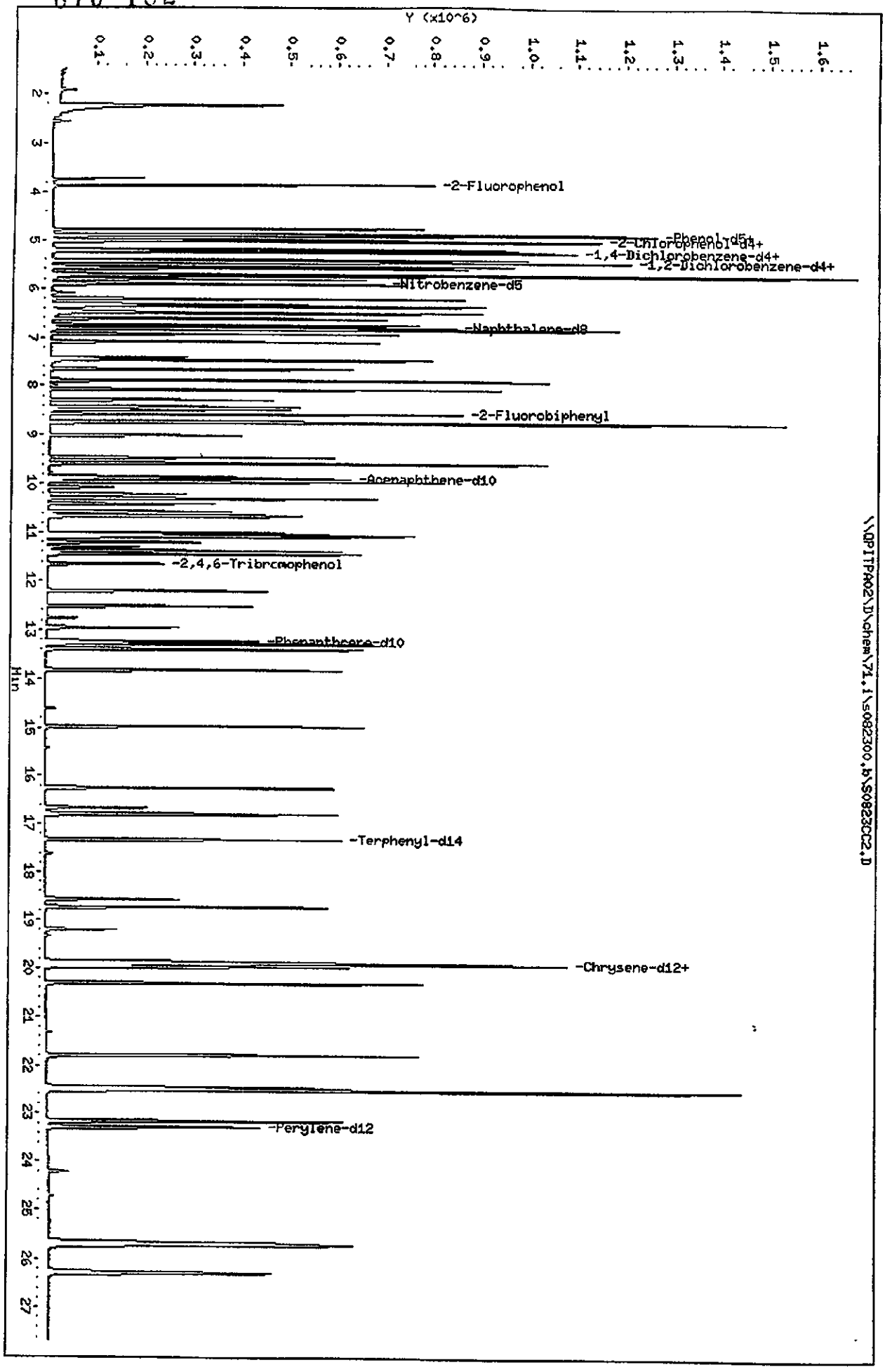


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown



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Client ID: SSTD50
Sample Info: sstd50(25 ug/ml) 194-183-7 8270/clp

Instrument: 71.i
Operator: 045183
Column diameter: 0.25

Column phase: Hp5-MS

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823CC2.D
Lab Smp Id: sstd50 Client Smp ID: SSTD50
Inj Date : 23-AUG-2000 19:35
Operator : 045183 Inst ID: 71.i
Smp Info : sstd50(25 ug/ml) 194-183-7 8270/clp
Misc Info : sstd50,s082300.b,8270clp.m,1-8270l.sub,1,2
Comment :
Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
Meth Date : 24-Aug-2000 08:18 BachaS Quant Type: ISTD
Cal Date : 23-AUG-2000 19:35 Cal File: S0823CC2.D
Als bottle: 95 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8270l.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	5.227	5.227	(1.000)	147014	40.0000	
* 2 Naphthalene-d8	136	6.803	6.803	(1.000)	543040	40.0000	
* 3 Acenaphthene-d10	164	9.901	9.901	(1.000)	257929	40.0000	
* 4 Phenanthrene-d10	188	13.240	13.240	(1 000)	367100	40.0000	
* 5 Chrysene-d12	240	19.912	19 912	(1.000)	428185	40 0000	
* 6 Perylene-d12	264	23 288	23.288	(1.000)	372130	40.0000	
13 N-Nitrosodimethylamine	74	2.214	2.214	(0.424)	199238	50.0000	54.155(M)
10 Pyridine	79	2.230	2.230	(0.427)	320458	50.0000	52.666(M)
19 Methyl methanesulfonate	80	3.725	3.725	(0.713)	88248	50.0000	49.254
22 Aniline	93	4.917	4.917	(0.941)	407251	50.0000	53.012
23 Phenol	94	4.890	4.890	(0.936)	409065	50.0000	53.178
24 bis(2-Chloroethyl)ether	93	4.986	4.986	(0.954)	310085	50.0000	52 892
25 2-Chlorophenol	128	5.029	5.029	(0.962)	282237	50.0000	53.147
27 1,3-Dichlorobenzene	146	5.189	5.189	(0.993)	295255	50.0000	53.281
28 1,4-Dichlorobenzene	146	5.248	5.248	(1.004)	299280	50.0000	53.238
29 1,2-Dichlorobenzene	146	5.456	5.456	(1.044)	276927	50.0000	53.646
30 Benzyl Alcohol	108	5.403	5.403	(1.034)	204557	50.0000	51.453
31 2-Methylphenol	108	5.547	5.547	(1.061)	261037	50.0000	51.507
32 2,2'-oxybis(1-Chloropropane)	45	5.590	5.590	(1.069)	496591	50.0000	51.933
33 N-Nitroso-di-n-propylamine	70	5.750	5.750	(1.100)	215091	50.0000	50.265
35 4-Methylphenol	108	5 707	5.707	(1 092)	280909	50.0000	52.950
38 Hexachloroethane	117	5.814	5.814	(1.112)	110387	50.0000	52.970
39 Nitrobenzene	77	5.921	5.921	(0.870)	301197	50.0000	51.218
44 Isophorone	82	6.204	6.204	(0.912)	518667	50.0000	51.164
45 2-Nitrophenol	139	6.316	6.316	(0.929)	128057	50.0000	51.602
46 2,4-Dimethylphenol	107	6.354	6.354	(0.934)	249387	50.0000	51.166

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.493	6.493	(0.954)	324295	50.0000	52.088
51 2,4-Dichlorophenol	162	6.616	6.616	(0 973)	189578	50 0000	51 481
52 Benzoic Acid	122	6 487	6.487	(0.954)	130175	50 0000	51.586
53 1,2,4-Trichlorobenzene	180	6.744	6.744	(0.991)	204249	50.0000	53 054
54 Naphthalene	128	6.829	6.829	(1.004)	772836	50.0000	52.996
55 4-Chloroaniline	127	6.931	6.931	(1.019)	299043	50.0000	51.972
59 Hexachlorobutadiene	225	7.091	7.091	(1.042)	111893	50.0000	53.249
62 4-Chloro-3-Methylphenol	107	7.657	7.657	(1.126)	204153	50 0000	49.836
65 2-Methylnaphthalene	142	7.892	7.892	(1.160)	473870	50.0000	52.294
66 1-Methylnaphthalene	142	8.079	8.079	(1 188)	441266	50.0000	51.929
67 Hexachlorocyclopentadiene	237	8.293	8.293	(0 838)	114963	50.0000	51.484
69 2,4,6-Trichlorophenol	196	8.427	8.427	(0.851)	120824	50.0000	52.447
70 2,4,5-Trichlorophenol	196	8.496	8.496	(0 858)	128370	50.0000	52.417
73 2-Chloronaphthalene	162	8.758	8.758	(0.885)	419421	50.0000	54.701
77 2-Nitroaniline	65	9.014	9.014	(0.910)	135661	50.0000	50.720
80 Dimethylphthalate	163	9.468	9.468	(0.956)	423764	50.0000	51.912
82 2,6-Dinitrotoluene	165	9.596	9 596	(0.969)	92076	50.0000	51.507
83 Acenaphthylene	152	9.580	9 580	(0.968)	621836	50.0000	53.194
85 3-Nitroaniline	138	9.864	9.864	(0.996)	109299	50 0000	51.013
86 Acenaphthene	153	9.965	9.965	(1.006)	379820	50.0000	52.598
87 2,4-Dinitrophenol	184	10.077	10.077	(1.018)	33658	50 0000	46.391
89 4-Nitrophenol	109	10.216	10.216	(1.032)	52590	50.0000	51.410
90 Dibenzofuran	168	10.307	10.307	(1.041)	528358	50.0000	52.743
91 2,4-Dinitrotoluene	165	10.419	10.419	(1 052)	111465	50.0000	51.012
95 2,3,5,6-Tetrachlorophenol	232	10.579	10.579	(1.069)	90480	50.0000	50.383
92 2,3,4,6-Tetrachlorophenol	232	10.676	10.676	(1.078)	95952	50.0000	51.708
96 2-Naphthylamine	143	10.654	10.654	(1.076)	294878	50 0000	58.772
97 Diethylphthalate	149	11.023	11.023	(1.113)	398144	50.0000	52.112
98 Fluorene	166	11 066	11.066	(1.118)	435276	50 0000	52.041
99 4-Chlorophenyl-phenylether	204	11 103	11.103	(1 121)	196648	50 0000	51.824
100 4-Nitroaniline	138	11.210	11.210	(1.132)	107689	50.0000	51.627
102 4,6-Dinitro-2-methylphenol	198	11 317	11.317	(0.855)	49077	50.0000	48.060
103 N-Nitrosodiphenylamine (1)	169	11.391	11.391	(0.860)	294072	50.0000	51.911
104 1,2-Diphenylhydrazine	77	11.456	11.456	(0.865)	513757	50.0000	53.122
112 4-Bromophenyl-phenylether	248	12.219	12.219	(0.923)	104844	50.0000	52.643
113 Hexachlorobenzene	284	12.529	12.529	(0.946)	112312	50.0000	52.748
117 Pentachlorophenol	266	12.962	12.962	(0.979)	62756	50.0000	50.102
122 Phenanthrene	178	13.299	13.299	(1.004)	552573	50.0000	52.737
123 Anthracene	178	13.405	13.405	(1.013)	565113	50.0000	52.024
126 Carbazole	167	13.838	13.838	(1.045)	534164	50.0000	51.980
130 Di-n-Butylphthalate	149	14 981	14 981	(1.132)	605588	50.0000	51.545
135 Fluoranthene	202	16.258	16.258	(1.228)	543909	50.0000	51.028
136 Benzidine	184	16.669	16.669	(0.837)	187005	50.0000	54.110
137 Pyrene	202	16.803	16.803	(0.844)	555860	50.0000	51.598
144 Butylbenzylphthalate	149	18.737	18.737	(0.941)	249081	50.0000	51.236
149 3,3'-Dichlorobenzidine	252	19.912	19.912	(1.000)	254801	50.0000	52 055
150 Benzo(a)Anthracene	228	19.869	19.869	(0.998)	551499	50.0000	51.080

Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823CC2.D
Report Date: 24-Aug-2000 08:18

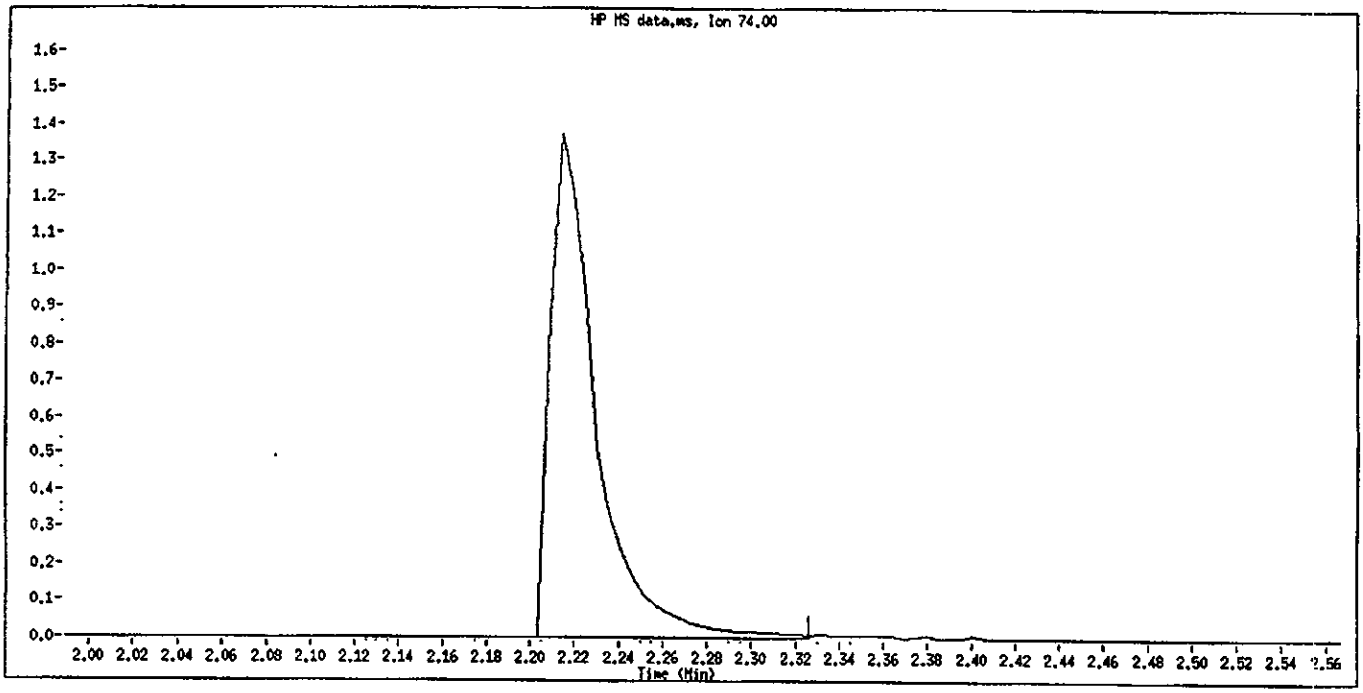
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
151 Chrysene	228	19 976	19.976	(1.003)	520349	50.0000	50.740
153 bis(2-ethylhexyl)Phthalate	149	20.313	20.313	(1.020)	358272	50.0000	50.537
155 Di-n-octylphthalate	149	21 787	21.787	(0.936)	631668	50 0000	50.349
157 Benzo(b)fluoranthene	252	22.460	22.460	(0.964)	595916	50 0000	49.095(H)
158 Benzo(k)fluoranthene	252	22.524	22.524	(0.967)	762084	50.0000	53.116
159 7,12-dimethylbenz[a]anthracen	256	22.524	22 524	(0.967)	326305	50.0000	51.420
167 Benzo(a)pyrene	252	23.165	23.165	(0.995)	567428	50.0000	50.189
169 Indeno(1,2,3-cd)pyrene	276	25.655	25.655	(1.102)	775573	50.0000	48.986
170 Dibenz(a,h)anthracene	278	25.703	25.703	(1.104)	703558	50.0000	48.341
171 Benzo(g,h,i)perylene	276	26.285	26.285	(1.129)	633013	50.0000	48.614
$ 172 Nitrobenzene-d5	82	5.900	5.900	(0.867)	294672	50.0000	51.577
$ 173 2-Fluorobiphenyl	172	8.581	8.581	(0 867)	450370	50.0000	52 980
$ 174 Terphenyl-d14	244	17.327	17.327	(0.870)	451589	50.0000	51.278
$ 175 Phenol-d5	99	4.879	4.879	(0.934)	371300	50.0000	52.957
$ 176 2-Fluorophenol	112	3 870	3.870	(0.740)	285775	50.0000	53.497
$ 177 2,4,6-Tribromophenol	330	11.659	11.659	(0 881)	54557	50 0000	51 802
$ 178 2-Chlorophenol-d4	132	5.013	5.013	(0.959)	247994	50.0000	53.004
$ 179 1,2-Dichlorobenzene-d4	152	5.440	5.440	(1.041)	173270	50 0000	53.112

QC Flag Legend

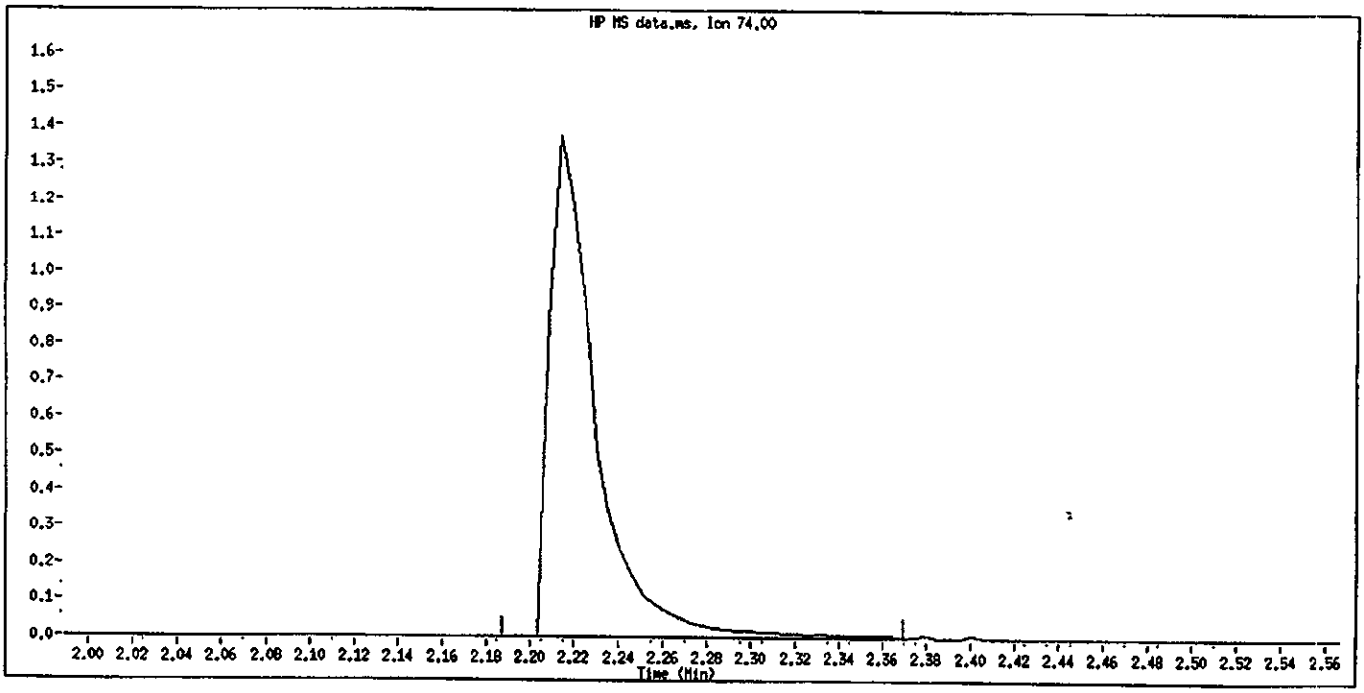
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

670 186

Data File Name: S0823CC2 D
Inj Date and Time: 23-AUG-2000 19 35
Instrument ID. 71 1
Client ID. SSTD50
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 08/24/2000



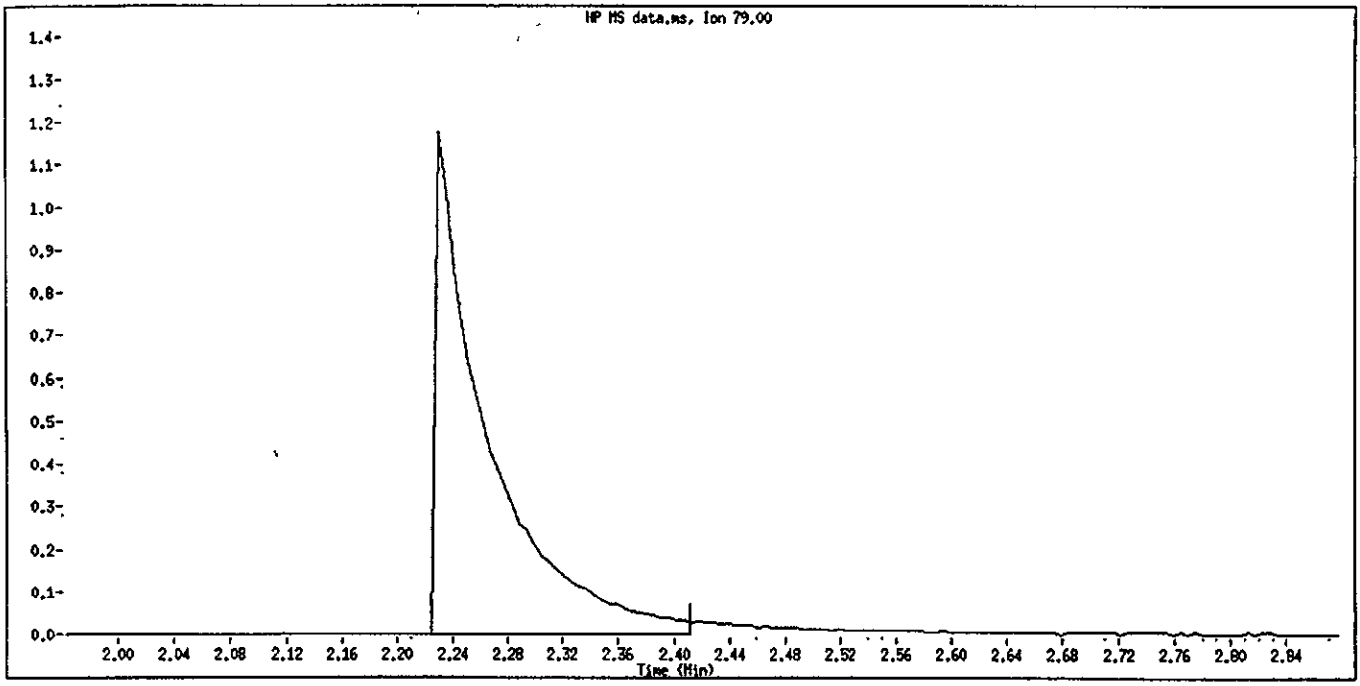
Original Integration



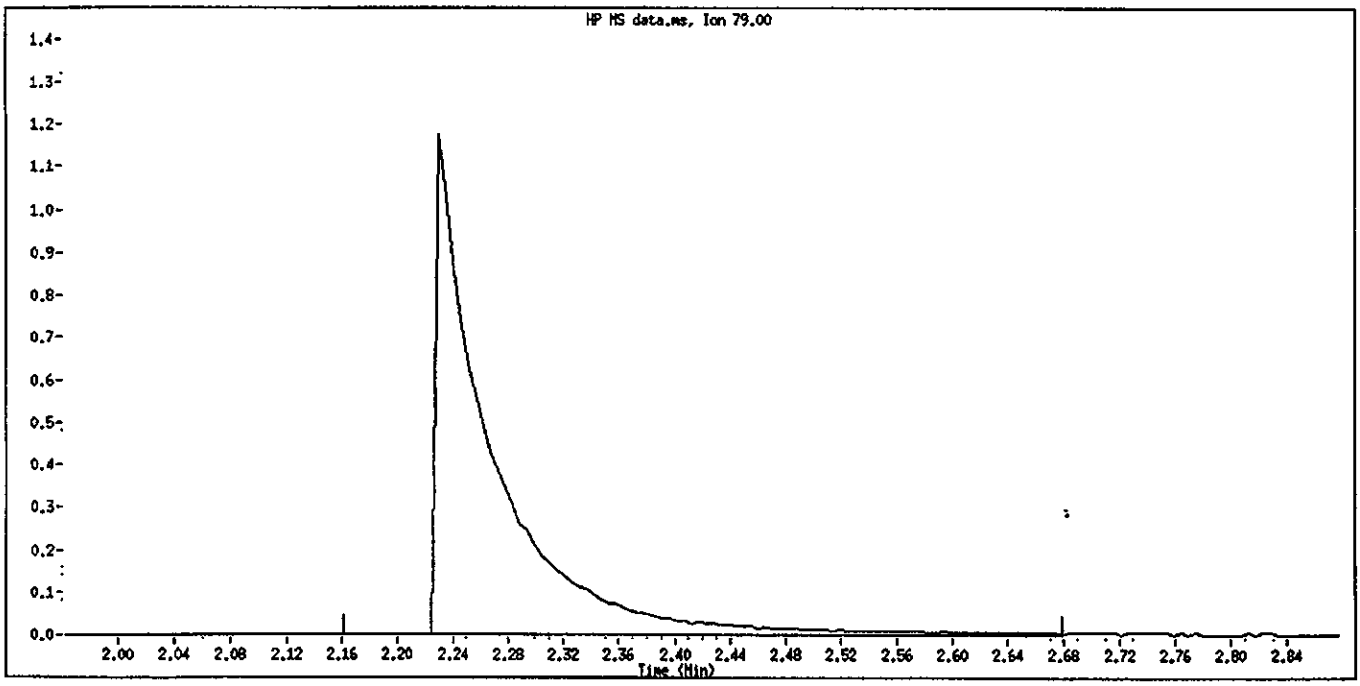
Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name. S0823CC2 D
Inj Date and Time: 23-AUG-2000 19:35
Instrument ID: 71.i
Client ID. SSTD50
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 08/24/2000

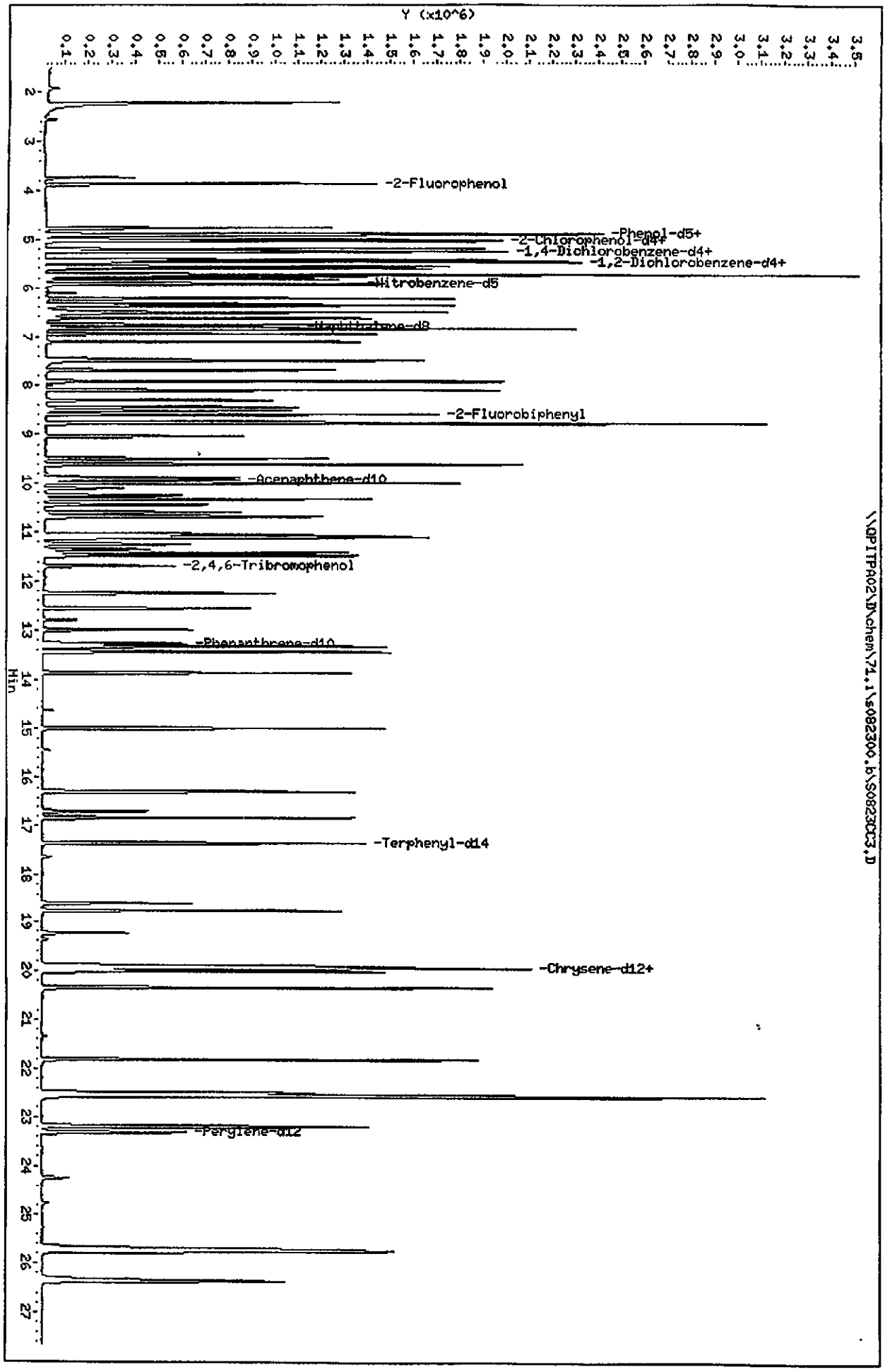


Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography



Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823CC3.D
Date : 23-AUG-2000 20:43
Client ID: SSTD80
Sample Info: sstd80(40 ug/ml) 194-189-5 8270/olp

Instrument: 71.i
Operator: 045183
Column diameter: 0.25

Column phase: Hp5-MS

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823CC3.D
Lab Smp Id: sstd80 Client Smp ID: SSTD80
Inj Date : 23-AUG-2000 20:43
Operator : 045183 Inst ID: 71.i
Smp Info : sstd80(40 ug/ml) 194-188-5 8270/clp
Misc Info : sstd80,s082300.b,8270clp.m,1-8270l.sub,1,3
Comment :
Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
Meth Date : 24-Aug-2000 08:20 BachaS Quant Type: ISTD
Cal Date : 23-AUG-2000 19:35 Cal File: S0823CC2.D
Als bottle: 96 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8270l.sub
Target Version: 4.04
Processing Host: PITPC050

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1	1,4-Dichlorobenzene-d4	152	5.243	5.243	(1.000)	186770	40.0000	
* 2	Naphthalene-d8	136	6.824	6.824	(1.000)	702664	40.0000	
* 3	Acenaphthene-d10	164	9.928	9.928	(1.000)	354192	40.0000	
* 4	Phenanthrene-d10	188	13.272	13.272	(1.000)	527278	40.0000	
* 5	Chrysene-d12	240	19.945	19.945	(1 000)	638311	40.0000	
* 6	Perylene-d12	264	23.321	23.321	(1.000)	543249	40.0000	
13	N-Nitrosodimethylamine	74	2.219	2.219	(0.423)	391596	80.0000	83.783(M)
10	Pyridine	79	2.225	2.225	(0.424)	649440	80.0000	84.013(M)
19	Methyl methanesulfonate	80	3.737	3 737	(0.713)	184552	80.0000	81.079
22	Aniline	93	4.933	4.933	(0.941)	793341	80 0000	81.287
23	Phenol	94	4.912	4.912	(0.937)	795223	80.0000	81.374
24	bis(2-Chloroethyl)ether	93	5.003	5.003	(0.954)	595867	80.0000	80.004
25	2-Chlorophenol	128	5.051	5.051	(0.963)	541105	80.0000	80.204
27	1,3-Dichlorobenzene	146	5.206	5.206	(0.993)	560758	80 0000	79.653
28	1,4-Dichlorobenzene	146	5.264	5.264	(1.004)	569337	80.0000	79.720
29	1,2-Dichlorobenzene	146	5.473	5.473	(1.044)	527293	80.0000	80.403
30	Benzyl Alcohol	108	5.425	5.425	(1.035)	404754	80 0000	80.137(M)
31	2-Methylphenol	108	5.564	5.564	(1.061)	512484	80.0000	79.596
32	2,2'-oxybis(1-Chloropropane)	45	5.606	5.606	(1 069)	966902	80.0000	79.594
33	N-Nitroso-di-n-propylamine	70	5.772	5.772	(1 101)	436318	80.0000	80.259
35	4-Methylphenol	108	5.729	5.729	(1.093)	552950	80.0000	82.043
38	Hexachloroethane	117	5.831	5.831	(1.112)	210796	80.0000	79.621
39	Nitrobenzene	77	5.943	5.943	(0.871)	609293	80.0000	80.073
44	Isophorone	82	6.226	6.226	(0.912)	1059392	80.0000	80.763
45	2-Nitrophenol	139	6.338	6.338	(0.929)	257791	80.0000	80.282
46	2,4-Dimethylphenol	107	6.376	6.376	(0.934)	499754	80.0000	79.240

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6 514	6.514	(0.955)	648026	80.0000	80.441
51 2,4-Dichlorophenol	162	6.637	6 637	(0.973)	380236	80 0000	79.799
52 Benzoic Acid	122	6 541	6.541	(0.959)	282105	80.0000	86.397
53 1,2,4-Trichlorobenzene	180	6.766	6.766	(0.991)	394073	80.0000	79.107
54 Naphthalene	128	6.851	6.851	(1.004)	1501076	80.0000	79.551
55 4-Chloroaniline	127	6.953	6.953	(1.019)	593293	80.0000	79.687
59 Hexachlorobutadiene	225	7.113	7.113	(1.042)	214443	80.0000	78.868
62 4-Chloro-3-Methylphenol	107	7.684	7.684	(1.126)	422435	80.0000	79.694
65 2-Methylnaphthalene	142	7 914	7.914	(1 160)	939196	80 0000	80.100
66 1-Methylnaphthalene	142	8.101	8.101	(1.187)	881098	80.0000	80.134
67 Hexachlorocyclopentadiene	237	8 315	8 315	(0.838)	241273	80.0000	78.683
69 2,4,6-Trichlorophenol	196	8.454	8.454	(0.851)	248416	80.0000	78.526
70 2,4,5-Trichlorophenol	196	8.523	8.523	(0.858)	262843	80.0000	78.157
73 2-Chloronaphthalene	162	8.785	8.785	(0.885)	838464	80.0000	79.633
77 2-Nitroaniline	65	9.047	9 047	(0.911)	291655	80.0000	79.407
80 Dimethylphthalate	163	9.495	9.495	(0.956)	884513	80.0000	78.906
82 2,6-Dinitrotoluene	165	9.624	9.624	(0.969)	198463	80 0000	80.847
83 Acenaphthylene	152	9.608	9.608	(0.968)	1283082	80.0000	79.929
85 3-Nitroaniline	138	9.896	9.896	(0.997)	234641	80.0000	79.750
86 Acenaphthene	153	9 998	9.998	(1.007)	789523	80.0000	79.619
87 2,4-Dinitrophenol	184	10.110	10.110	(1.018)	81576	80.0000	81.878
89 4-Nitrophenol	109	10.254	10 254	(1.033)	112925	80.0000	80.389
90 Dibenzofuran	168	10.334	10.334	(1.041)	1084569	80 0000	78.842
91 2,4-Dinitrotoluene	165	10.452	10.452	(1 053)	240272	80.0000	80.075
95 2,3,5,6-Tetrachlorophenol	232	10.607	10.607	(1.068)	195688	80.0000	79.352
92 2,3,4,6-Tetrachlorophenol	232	10.708	10 708	(1.079)	202182	80.0000	79 342
96 2-Naphthylamine	143	10.687	10.687	(1.076)	523128	80.0000	75.928
97 Diethylphthalate	149	11.050	11.050	(1.113)	835560	80.0000	79.641
98 Fluorene	166	11.098	11.098	(1.118)	911871	80.0000	79 392
99 4-Chlorophenyl-phenylether	204	11.130	11.130	(1.121)	412638	80.0000	79.191
100 4-Nitroaniline	138	11.253	11.253	(1.133)	230000	80.0000	80.296
102 4,6-Dinitro-2-methylphenol	198	11.354	11.354	(0.856)	120928	80.0000	82.448
103 N-Nitrosodiphenylamine (1)	169	11.419	11.419	(0.860)	638652	80.0000	78.490
104 1,2-Diphenylhydrazine	77	11.483	11.483	(0.865)	1068208	80.0000	76.899
112 4-Bromophenyl-phenylether	248	12.247	12 247	(0.923)	221729	80.0000	77.512
113 Hexachlorobenzene	284	12.562	12.562	(0.946)	240936	80.0000	78.782
117 Pentachlorophenol	266	12.994	12.994	(0.979)	147703	80.0000	82.099
122 Phenanthrene	178	13.331	13.331	(1.004)	1185184	80.0000	78.751
123 Anthracene	178	13.438	13.438	(1.012)	1237014	80.0000	79.285
126 Carbazole	167	13.871	13 871	(1.045)	1164089	80 0000	78.867
130 Di-n-Butylphthalate	149	15 008	15.008	(1 131)	1356794	80.0000	80.402
135 Fluoranthene	202	16.291	16.291	(1 227)	1220019	80.0000	79.687
136 Benzidine	184	16.697	16.697	(0.837)	390465	80.0000	75.788
137 Pyrene	202	16.835	16.835	(0.844)	1238694	80.0000	77.131
144 Butylbenzylphthalate	149	18.769	18.769	(0.941)	563475	80 0000	77.751
149 3,3'-Dichlorobenzidine	252	19.945	19.945	(1.000)	594534	80.0000	81.477
150 Benzo(a)Anthracene	228	19.907	19.907	(0.998)	1277844	80.0000	79.394

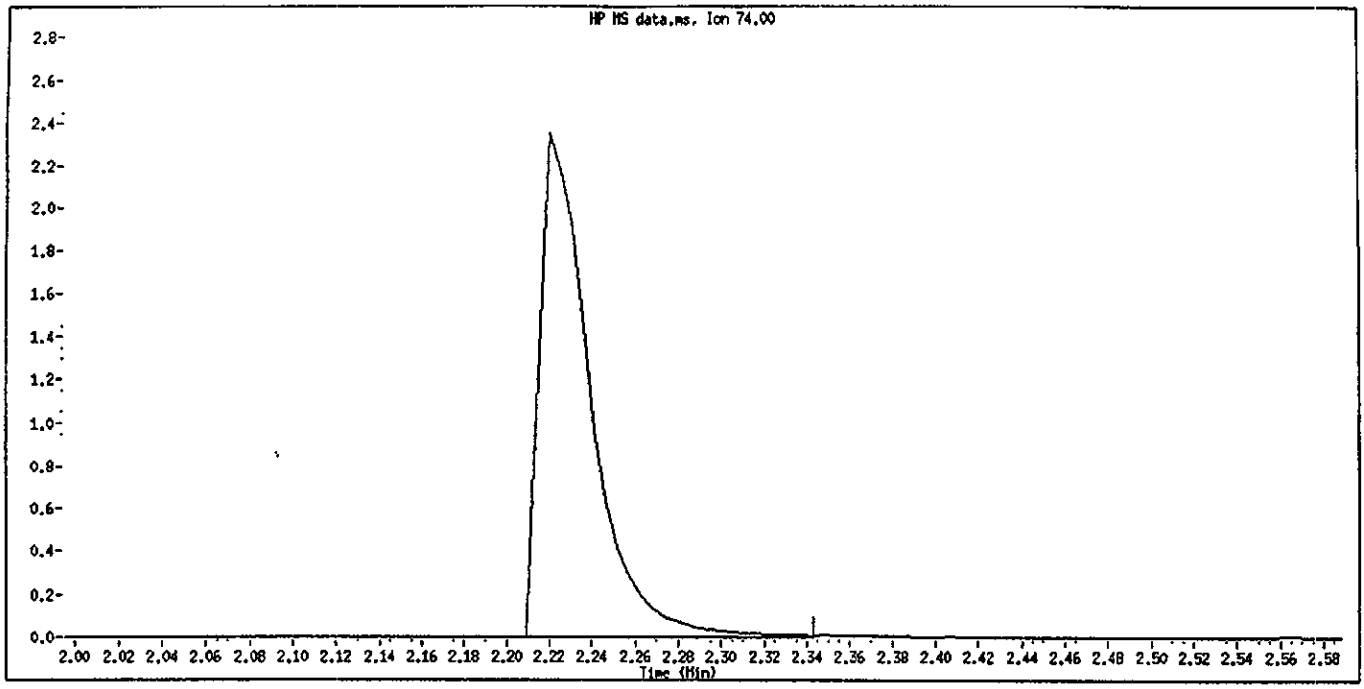
Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823CC3.D
Report Date: 24-Aug-2000 08:20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
151 Chrysene	228	20.014	20.014	(1.003)	1212807	80.0000	79.332
153 bis(2-ethylhexyl)Phthalate	149	20.340	20.340	(1.020)	845957	80.0000	80.047
155 Di-n-octylphthalate	149	21.820	21.820	(0.936)	1485734	80.0000	81.122
157 Benzo(b)fluoranthene	252	22.509	22.509	(0.965)	1329539	80.0000	75.033
158 Benzo(k)fluoranthene	252	22.568	22.568	(0.968)	1824185	80.0000	87.094
159 7,12-dimethylbenz[a]anthracen	256	22.568	22.568	(0.968)	794274	80.0000	85.738
167 Benzo(a)pyrene	252	23.209	23.209	(0.995)	1326772	80.0000	80.388
169 Indeno(1,2,3-cd)pyrene	276	25.709	25.709	(1.102)	1862201	80.0000	80.570
170 Dibenz(a,h)anthracene	278	25.757	25.757	(1.104)	1713846	80.0000	80.665
171 Benzo(g,h,i)perylene	276	26.350	26.350	(1.130)	1501578	80.0000	78.993
$ 172 Nitrobenzene-d5	82	5.921	5.921	(0.868)	587821	80.0000	79.515
$ 173 2-Fluorobiphenyl	172	8.609	8.609	(0.867)	913899	80.0000	78.289
$ 174 Terphenyl-d14	244	17.359	17.359	(0.870)	1019338	80.0000	77.643
$ 175 Phenol-d5	99	4.896	4.896	(0.934)	716564	80.0000	80.446
$ 176 2-Fluorophenol	112	3.886	3 886	(0.741)	542855	80.0000	79.992
$ 177 2,4,6-Tribromophenol	330	11.691	11.691	(0.881)	119107	80.0000	78.737
$ 178 2-Chlorophenol-d4	132	5.035	5.035	(0.960)	475315	80.0000	79.965
$ 179 1,2-Dichlorobenzene-d4	152	5 462	5.462	(1.042)	332308	80.0000	80.180

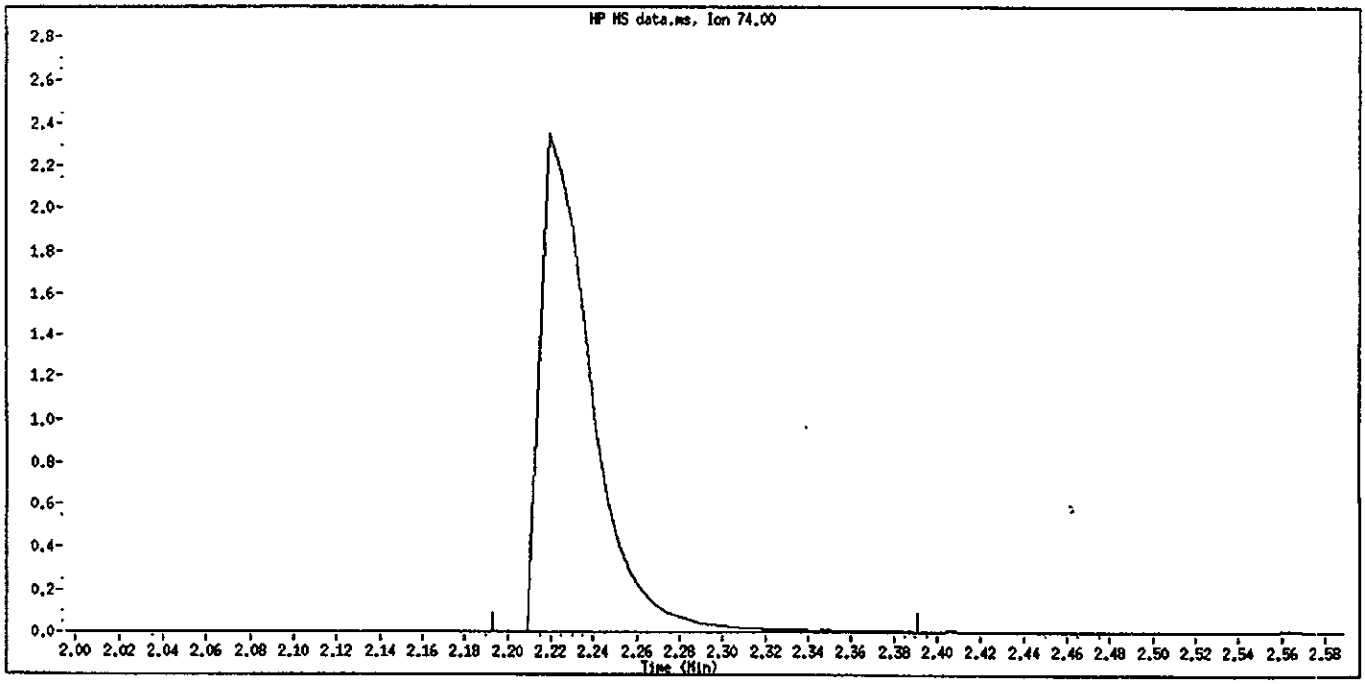
QC Flag Legend

M - Compound response manually integrated.

Data File Name: S0823CC3.D
Inj. Date and Time: 23-AUG-2000 20:43
Instrument ID: 71.i
Client ID: SSTD80
Compound Name: N-Nitrosodimethylamine
CAS # 62-75-9
Report Date: 08/24/2000



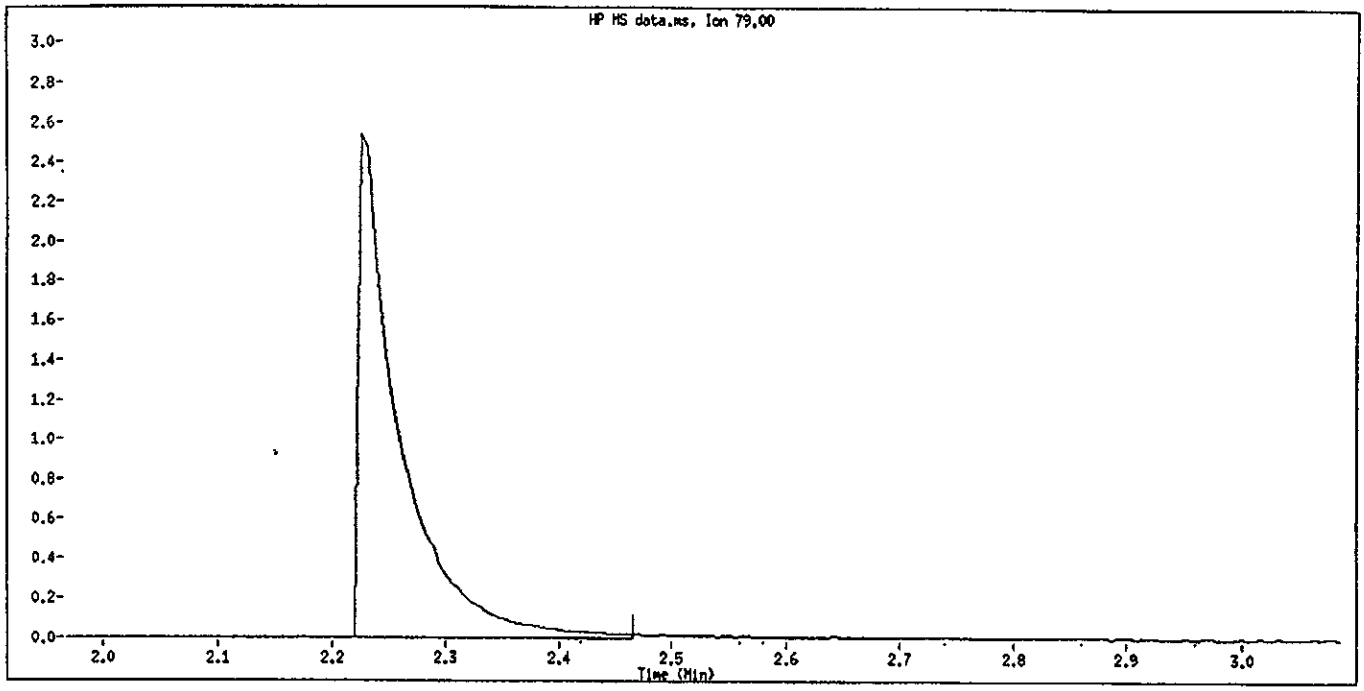
Original Integration



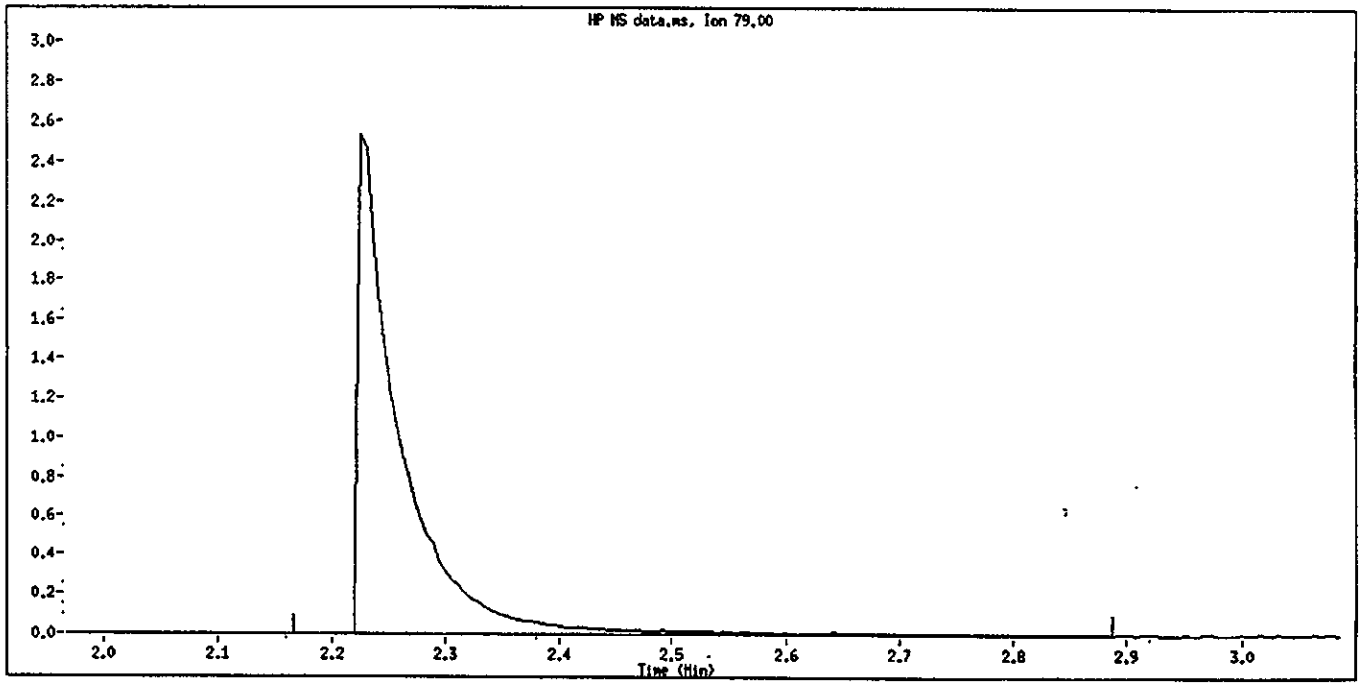
Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0823CC3.D
Inj. Date and Time: 23-AUG-2000 20:43
Instrument ID: 71 1
Client ID. SSTD80
Compound Name: Pyridine
CAS # 110-86-1
Report Date: 08/24/2000



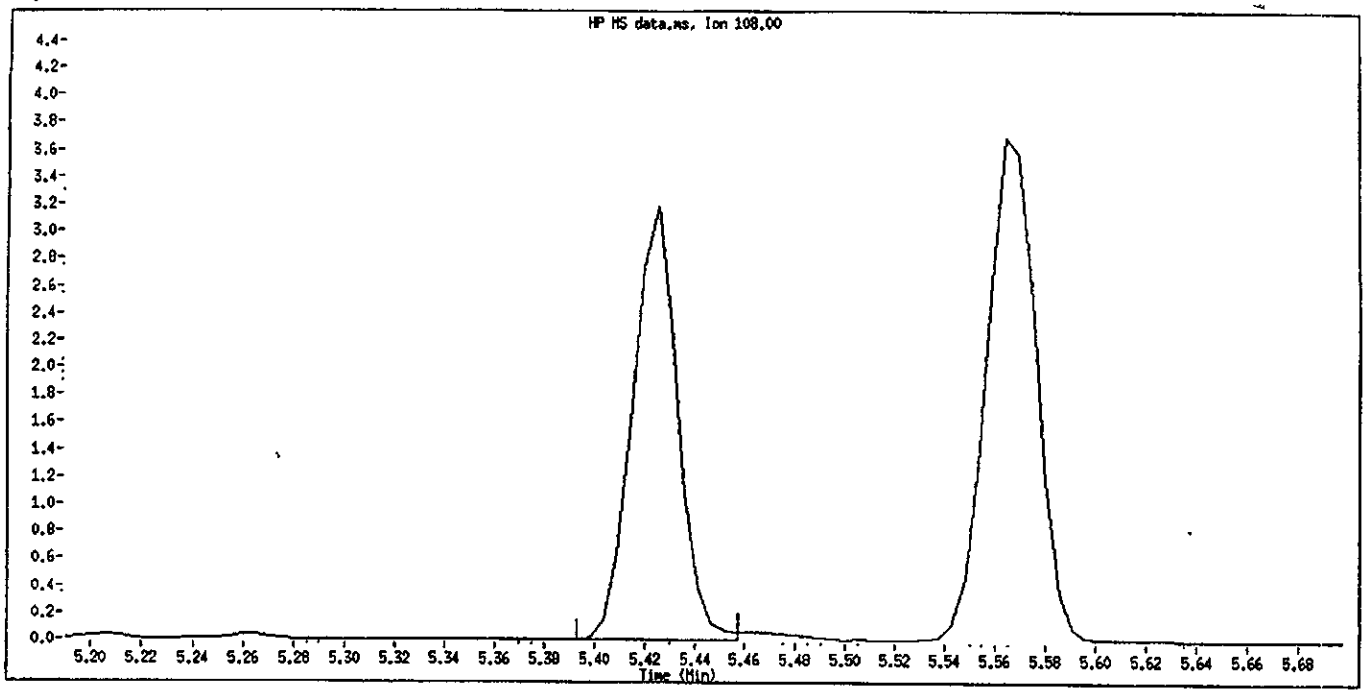
Original Integration



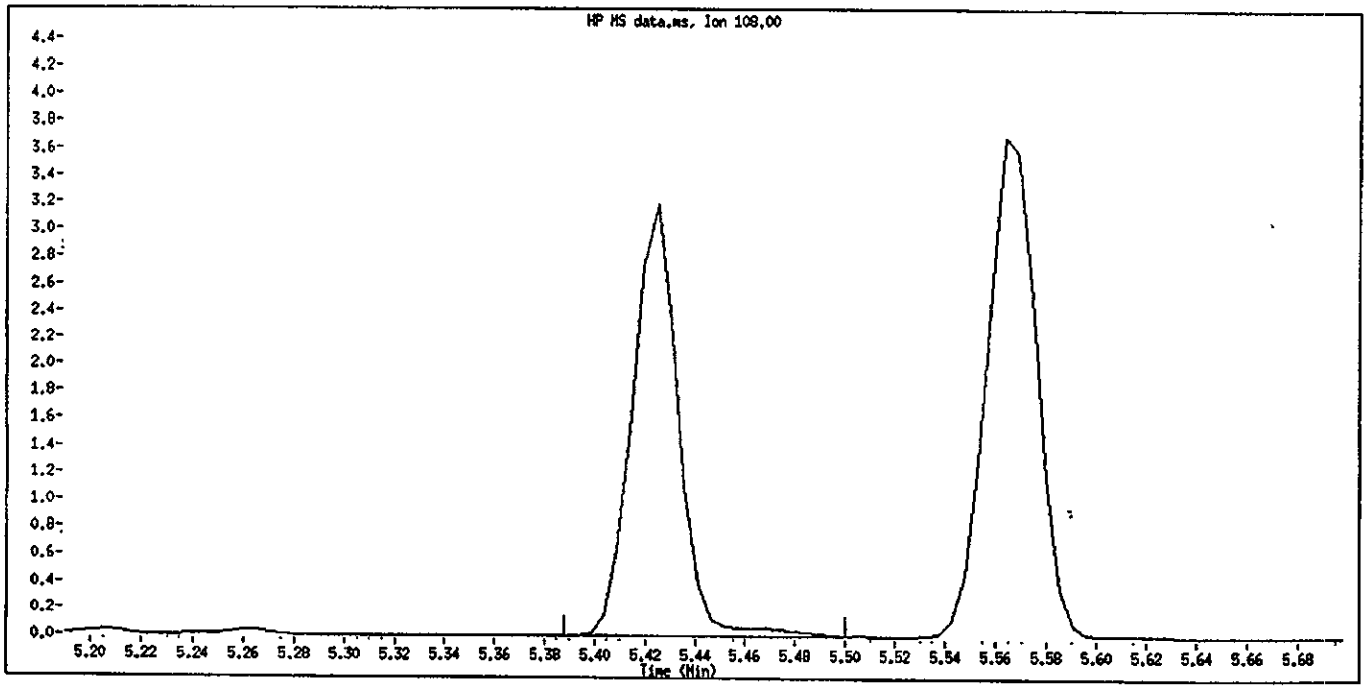
Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0823CC3 D
Inj. Date and Time 23-AUG-2000 20 43
Instrument ID. 71.i
Client ID· SSTD80
Compound Name· Benzyl Alcohol
CAS #: 100-51-6
Report Date· 08/24/2000



Original Integration



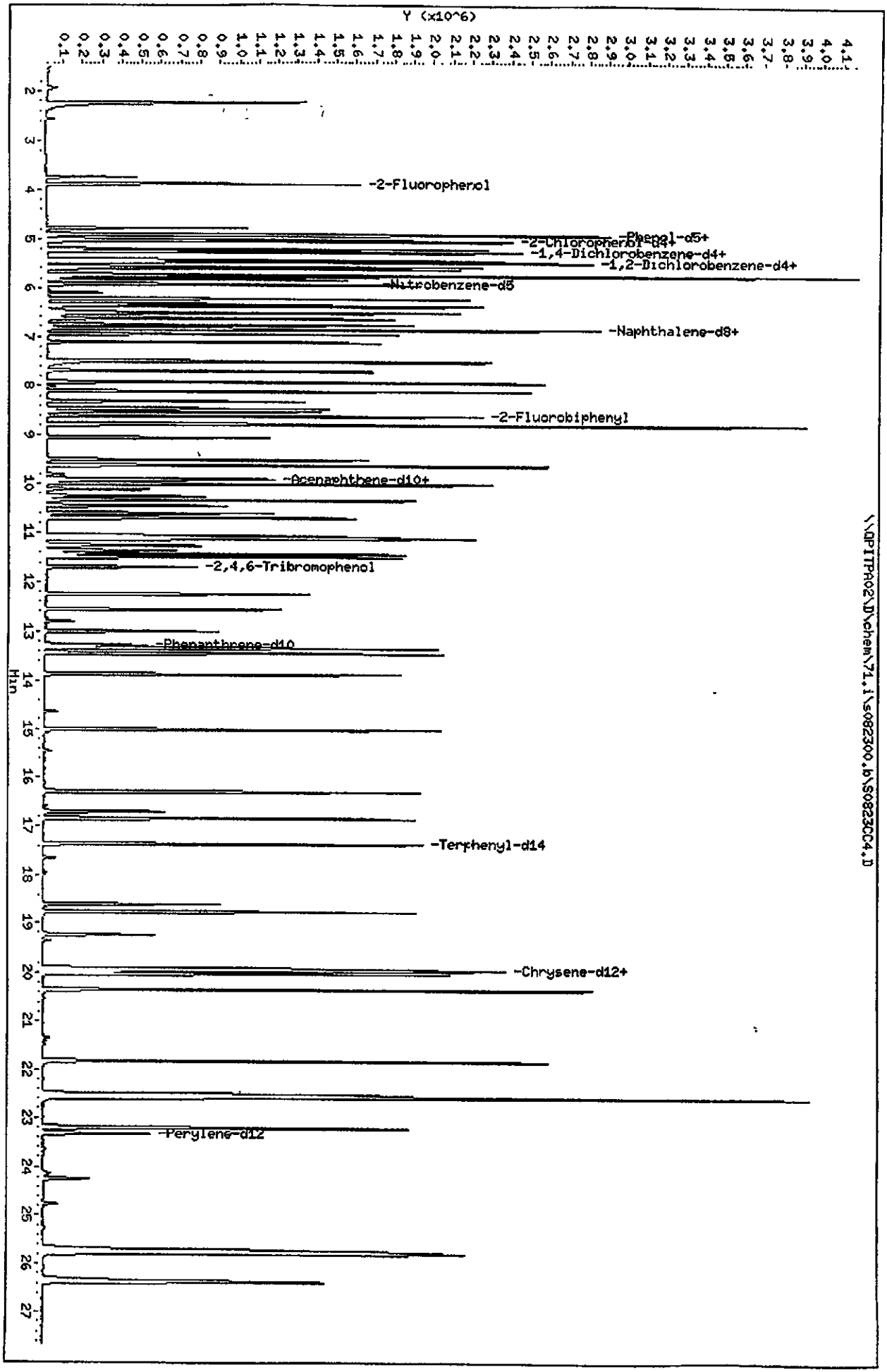
Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823CC4.D
Date : 23-AUG-2000 21:16
Client ID: SSTD120
Sample Info: sstd120(60 ug/ml) 194-188-6 8270/olp

Instrument: 71.i
Operator: 045183
Column diameter: 0.25

Column Phase: Hp5-MS



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823CC4.D
Lab Smp Id: sstd120 Client Smp ID: SSTD120
Inj Date : 23-AUG-2000 21:16
Operator : 045183 Inst ID: 71.i
Smp Info : sstd120(60 ug/ml) 194-188-6 8270/clp
Misc Info : sstd120,s082300.b,8270clp.m,1-8270l.sub,1,4
Comment :
Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
Meth Date : 24-Aug-2000 08:21 BachaS Quant Type: ISTD
Cal Date : 23-AUG-2000 19:35 Cal File: S0823CC2.D
Als bottle: 97 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8270l.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	5.248	5.248	(1.000)	157907	40.0000	
* 2 Naphthalene-d8	136	6.824	6.824	(1.000)	596353	40.0000	
* 3 Acenaphthene-d10	164	9.933	9.933	(1 000)	301348	40.0000	
* 4 Phenanthrene-d10	188	13.278	13 278	(1 000)	452069	40.0000	
* 5 Chrysene-d12	240	19.955	19.955	(1.000)	592895	40.0000	
* 6 Perylene-d12	264	23.332	23.332	(1.000)	480138	40 0000	
13 N-Nitrosodimethylamine	74	2.230	2 230	(0.425)	483449	120.000	122.34 (M)
10 Pyridine	79	2.230	2.230	(0.425)	783361	120.000	119.86 (M)
19 Methyl methanesulfonate	80	3.742	3.742	(0.713)	233828	120.000	121.50
22 Aniline	93	4.933	4.933	(0.940)	990024	120.000	119.98
23 Phenol	94	4.917	4.917	(0.937)	999094	120.000	120.92
24 bis(2-Chloroethyl)ether	93	5.008	5.008	(0.954)	751020	120.000	119.27
25 2-Chlorophenol	128	5.051	5.051	(0.962)	684451	120.000	120.00
27 1,3-Dichlorobenzene	146	5.206	5.206	(0 992)	709001	120.000	119.12
28 1,4-Dichlorobenzene	146	5.264	5.264	(1 003)	718445	120.000	118.99
29 1,2-Dichlorobenzene	146	5.478	5.478	(1.044)	659706	120.000	118.98
30 Benzyl Alcohol	108	5.425	5.425	(1.034)	527491	120.000	123.53 (M)
31 2-Methylphenol	108	5.569	5.569	(1.061)	666491	120.000	122.44
32 2,2'-oxybis(1-Chloropropane)	45	5.606	5.606	(1 068)	1224314	120.000	119.20
33 N-Nitroso-di-n-propylamine	70	5.777	5.777	(1.101)	566254	120.000	123.20
35 4-Methylphenol	108	5.735	5.735	(1.093)	695398	120.000	122.04
38 Hexachloroethane	117	5.831	5.831	(1.111)	267265	120.000	119.40
39 Nitrobenzene	77	5.943	5.943	(0.871)	797110	120.000	123.43
44 Isophorone	82	6.231	6.231	(0.913)	1374865	120.000	123.50
45 2-Nitrophenol	139	6.338	6.338	(0.929)	340466	120.000	124.93
46 2,4-Dimethylphenol	107	6.381	6.381	(0.935)	662440	120.000	123.76

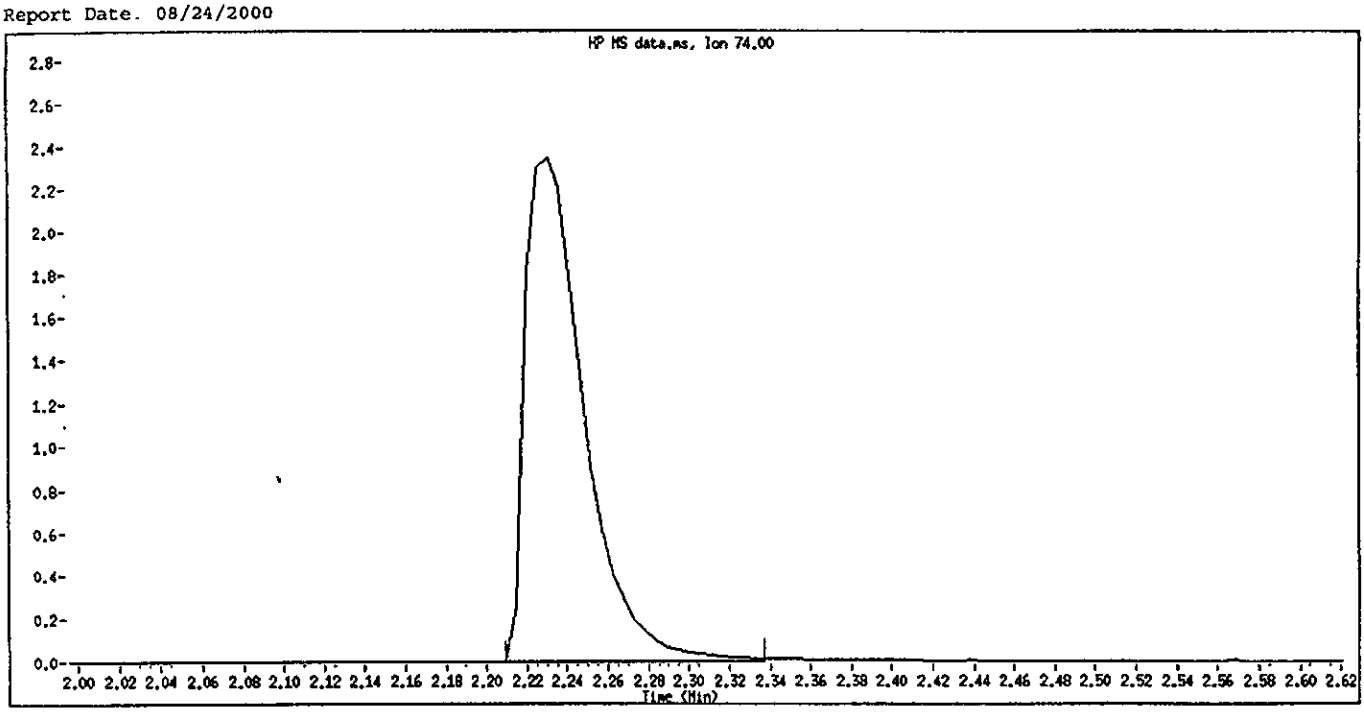
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.514	6.514	(0.955)	838330	120.000	122.62
51 2,4-Dichlorophenol	162	6.643	6 643	(0.973)	496739	120 000	122.83
52 Benzoic Acid	122	6.557	6.557	(0.961)	360957	120 000	130.25
53 1,2,4-Trichlorobenzene	180	6.766	6.766	(0.991)	505698	120.000	119.61
54 Naphthalene	128	6.856	6.856	(1.005)	1940846	120.000	121.19
55 4-Chloroaniline	127	6.953	6.953	(1 019)	776725	120.000	122.92
59 Hexachlorobutadiene	225	7 113	7 113	(1.042)	278390	120 000	120.64
62 4-Chloro-3-Methylphenol	107	7.695	7.695	(1.128)	568923	120.000	126.46
65 2-Methylnaphthalene	142	7.919	7 919	(1.160)	1226971	120.000	123.30
66 1-Methylnaphthalene	142	8.106	8.106	(1.188)	1153666	120.000	123.63
67 Hexachlorocyclopentadiene	237	8.315	8.315	(0.837)	325913	120.000	124.92
69 2,4,6-Trichlorophenol	196	8.459	8.459	(0.852)	335425	120.000	124.62
70 2,4,5-Trichlorophenol	196	8.528	8.528	(0.859)	358927	120.000	125.44
73 2-Chloronaphthalene	162	8.790	8.790	(0.885)	1082143	120.000	120.80
77 2-Nitroaniline	65	9 052	9 052	(0.911)	397029	120.000	127.05
80 Dimethylphthalate	163	9.501	9.501	(0.956)	1198132	120.000	125.63
82 2,6-Dinitrotoluene	165	9.629	9.629	(0.969)	272798	120.000	130.62
83 Acenaphthylene	152	9.613	9.613	(0.968)	1696504	120.000	124.22
85 3-Nitroaniline	138	9.901	9.901	(0.997)	323517	120.000	129.24
86 Acenaphthene	153	10.003	10.003	(1.007)	1045639	120.000	123.94
87 2,4-Dinitrophenol	184	10.115	10.115	(1.018)	123856	120.000	146.11
89 4-Nitrophenol	109	10.265	10.265	(1.033)	156478	120.000	130.93
90 Dibenzofuran	168	10.339	10.339	(1.041)	1449197	120.000	123.82
91 2,4-Dinitrotoluene	165	10.462	10.462	(1.053)	337373	120.000	132.15
95 2,3,5,6-Tetrachlorophenol	232	10.612	10.612	(1.068)	276370	120.000	131.72
92 2,3,4,6-Tetrachlorophenol	232	10 713	10.713	(1.079)	282483	120 000	130.29
96 2-Naphthylamine	143	10.692	10.692	(1.076)	651279	120.000	111.10
97 Diethylphthalate	149	11.055	11.055	(1.113)	1133771	120.000	127.02
98 Fluorene	166	11.103	11.103	(1.118)	1239391	120.000	126.83
99 4-Chlorophenyl-phenylether	204	11.135	11.135	(1.121)	558056	120.000	125.88
100 4-Nitroaniline	138	11.269	11.269	(1.134)	315051	120.000	129.28
102 4,6-Dinitro-2-methylphenol	198	11.365	11.365	(0.856)	179570	120.000	142.80
103 N-Nitrosodiphenylamine (1)	169	11.429	11.429	(0.861)	870276	120.000	124.75
104 1,2-Diphenylhydrazine	77	11.493	11.493	(0.866)	1454542	120.000	122.13
112 4-Bromophenyl-phenylether	248	12.252	12.252	(0.923)	307572	120 000	125.41
113 Hexachlorobenzene	284	12.567	12.567	(0.946)	328918	120.000	125.44
117 Pentachlorophenol	266	13.000	13.000	(0.979)	207110	120.000	134.27
122 Phenanthrene	178	13.336	13.336	(1.004)	1617692	120 000	125.37
123 Anthracene	178	13.443	13.443	(1.012)	1701102	120.000	127.17
126 Carbazole	167	13.876	13.876	(1.045)	1638396	120.000	129.47
130 Di-n-Butylphthalate	149	15.014	15.014	(1.131)	1889385	120.000	130.59
135 Fluoranthene	202	16.296	16.296	(1.227)	1723908	120.000	131.33
136 Benzidine	184	16.707	16.707	(0.837)	549468	120.000	114.82
137 Pyrene	202	16.846	16.846	(0.844)	1782389	120.000	119.49
144 Butylbenzylphthalate	149	18.775	18.775	(0.941)	823025	120.000	122.26
149 3,3'-Dichlorobenzidine	252	19.955	19.955	(1.000)	826272	120.000	121.91
150 Benzo(a)Anthracene	228	19.913	19.913	(0.998)	1835606	120.000	122.78

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
151 Chrysene	228	20.025	20.025	(1.003)	1752991	120.000	123.45
153 bis(2-ethylhexyl)Phthalate	149	20 345	20.345	(1.020)	1227305	120.000	125.03
155 Di-n-octylphthalate	149	21.825	21.825	(0.935)	2134944	120.000	131.89
157 Benzo(b)fluoranthene	252	22 520	22.520	(0.965)	2046480	120.000	130.67
158 Benzo(k)fluoranthene	252	22.584	22 584	(0.968)	2461690	120.000	132.98
159 7,12-dimethylbenz[a]anthracen	256	22.584	22.584	(0.968)	1114477	120.000	136.12
167 Benzo(a)pyrene	252	23.219	23.219	(0 995)	1895581	120.000	129.95
169 Indeno(1,2,3-cd)pyrene	276	25.725	25.725	(1.103)	2718296	120.000	133.07
170 Dibenz(a,h)anthracene	278	25.773	25.773	(1.105)	2560537	120.000	136.36
171 Benzo(g,h,i)perylene	276	26.371	26.371	(1.130)	2206169	120 000	131.31
$ 172 Nitrobenzene-d5	82	5.922	5.922	(0.868)	767212	120.000	122.28
$ 173 2-Fluorobiphenyl	172	8.614	8.614	(0.867)	1204978	120.000	121 33
$ 174 Terphenyl-d14	244	17 364	17.364	(0.870)	1461376	120.000	119.84
$ 175 Phenol-d5	99	4.901	4.901	(0.934)	906947	120.000	120.43
$ 176 2-Fluorophenol	112	3.891	3.891	(0.741)	681114	120.000	118 71
$ 177 2,4,6-Tribromophenol	330	11.696	11.696	(0.881)	168052	120.000	129.58
$ 178 2-Chlorophenol-d4	132	5.035	5.035	(0.959)	600280	120.000	119.45
$ 179 1,2-Dichlorobenzene-d4	152	5 462	5.462	(1.041)	416962	120.000	118.99

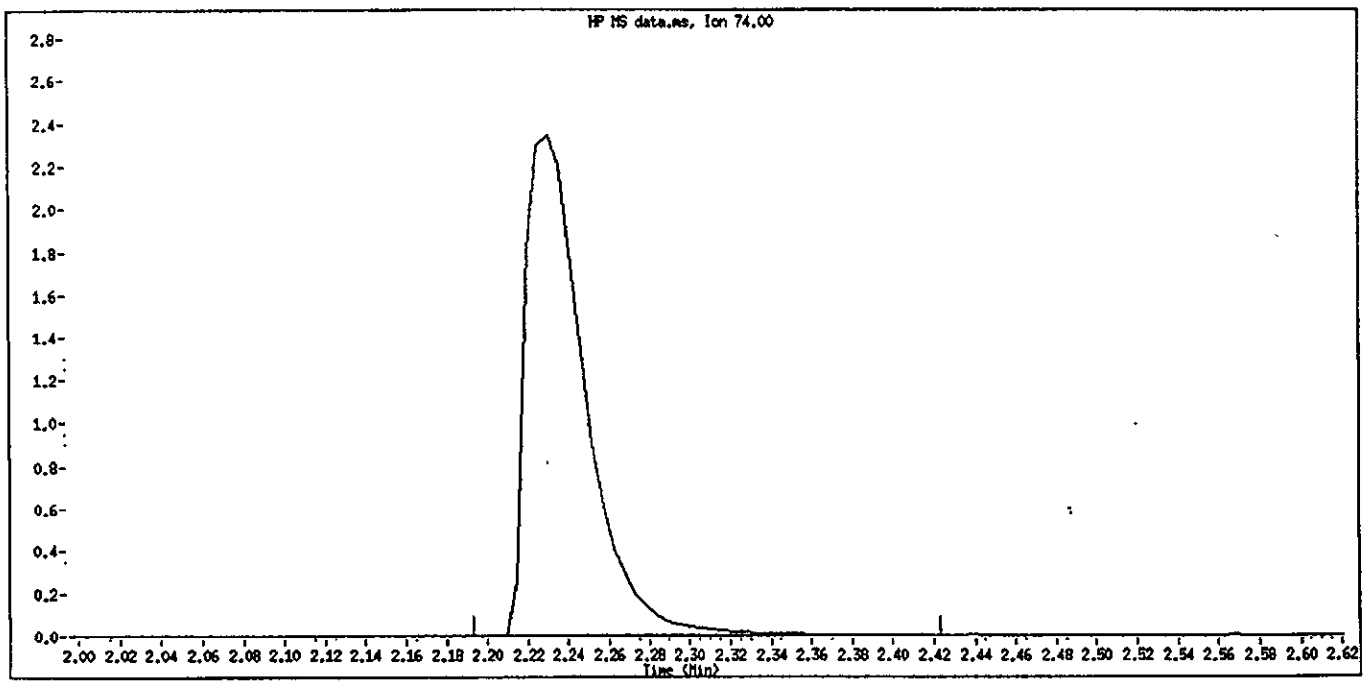
QC Flag Legend

M - Compound response manually integrated.

Data File Name: S0823CC4 D
Inj. Date and Time: 23-AUG-2000 21 16
Instrument ID: 71 1
Client ID: SSTD120
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 08/24/2000



Original Integration

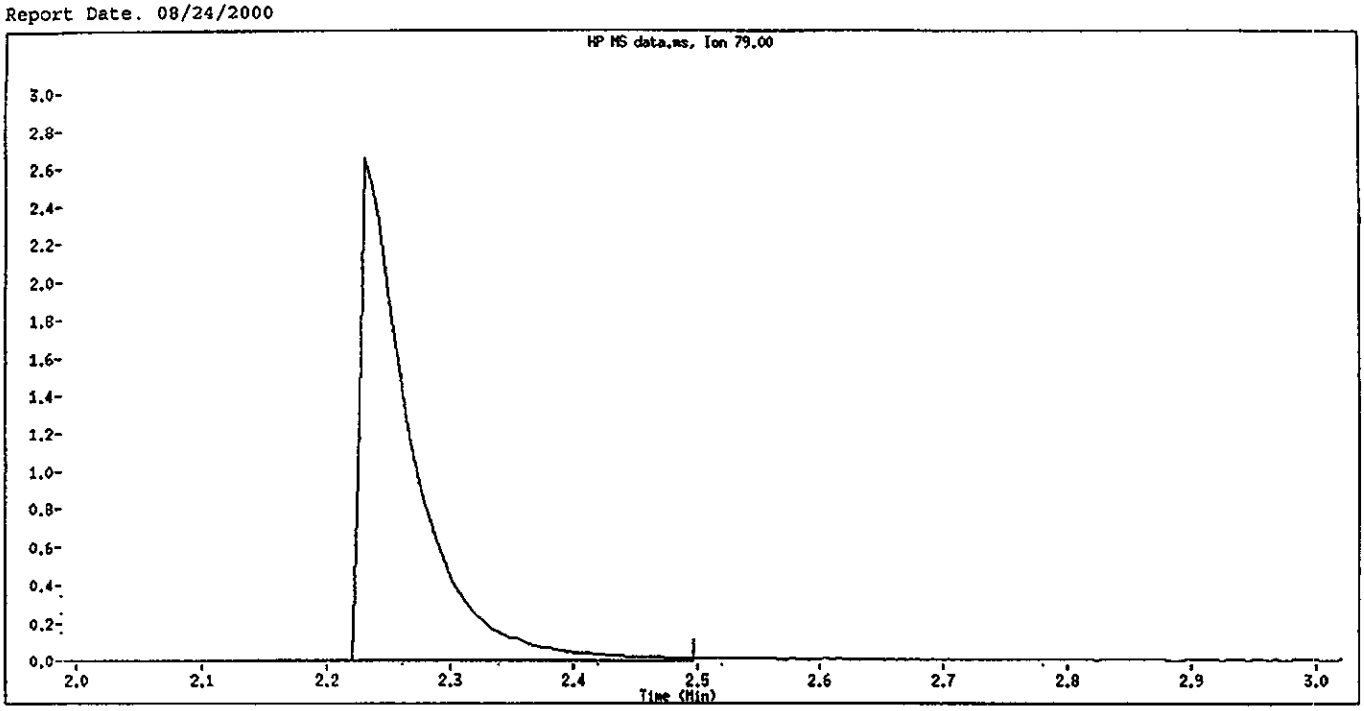


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

670 200

Data File Name: S0823CC4.D
Inj. Date and Time: 23-AUG-2000 21 16
Instrument ID. 71 i
Client ID: SSTD120
Compound Name: Pyridine
CAS #: 110-86-1
Report Date. 08/24/2000



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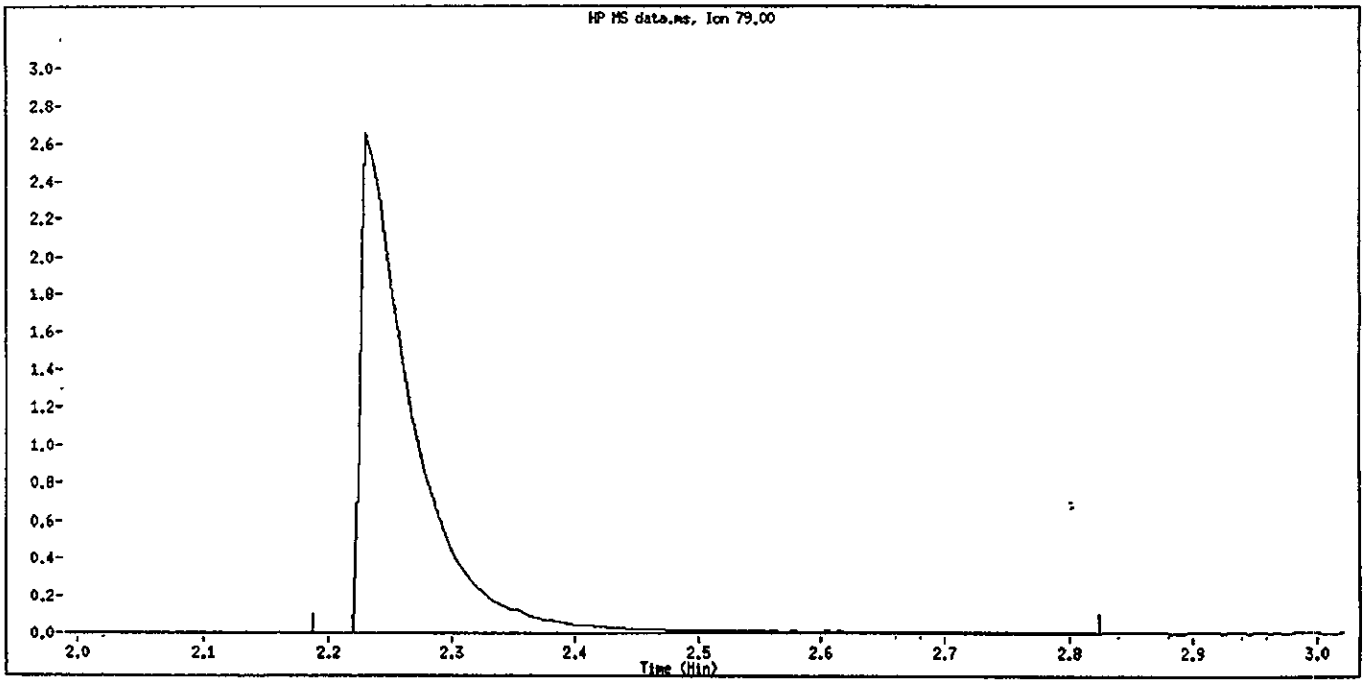
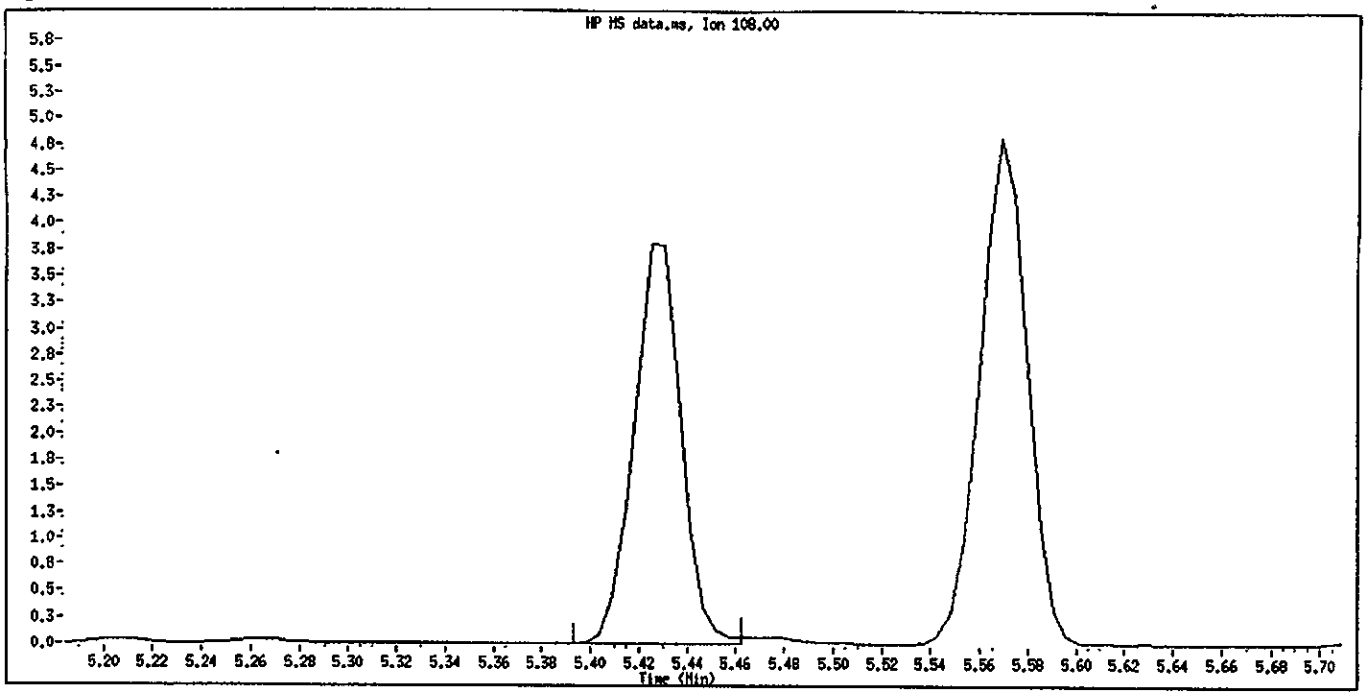


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0823CC4.D
Inj. Date and Time: 23-AUG-2000 21 16
Instrument ID: 71.i
Client ID: SSTD120
Compound Name: Benzyl Alcohol
CAS #: 100-51-6
Report Date: 08/24/2000



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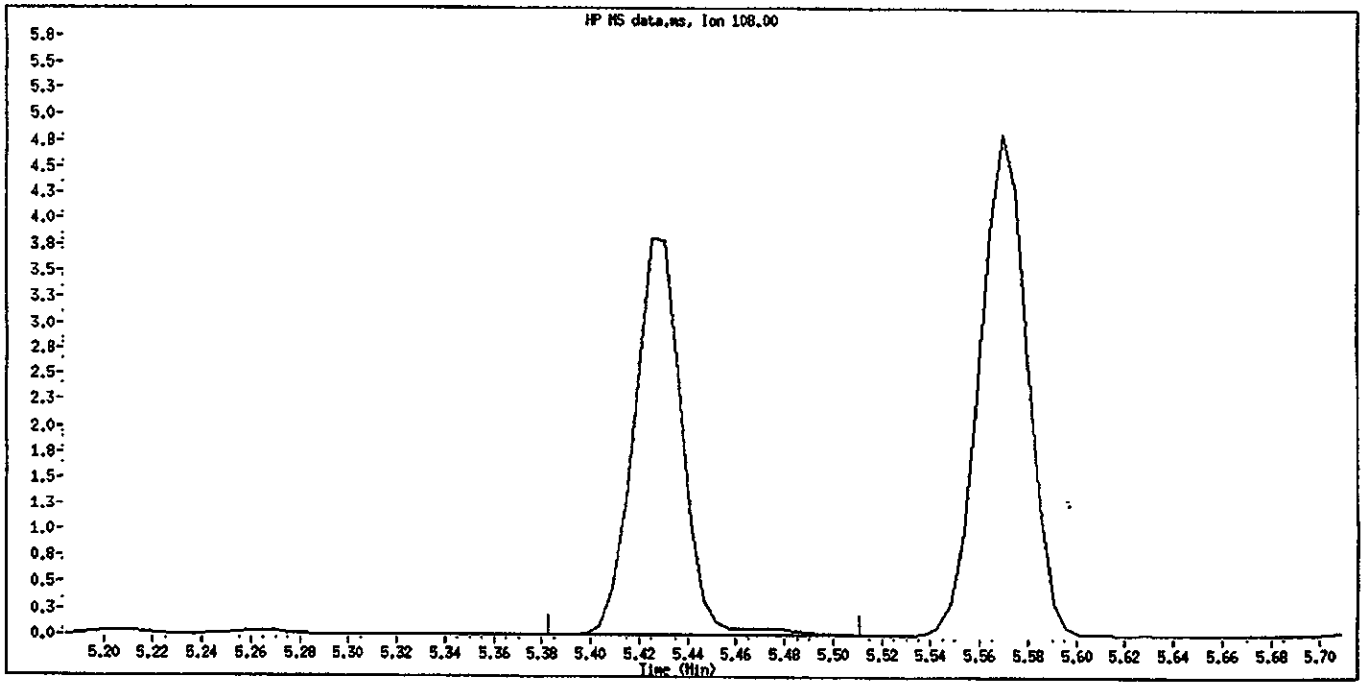
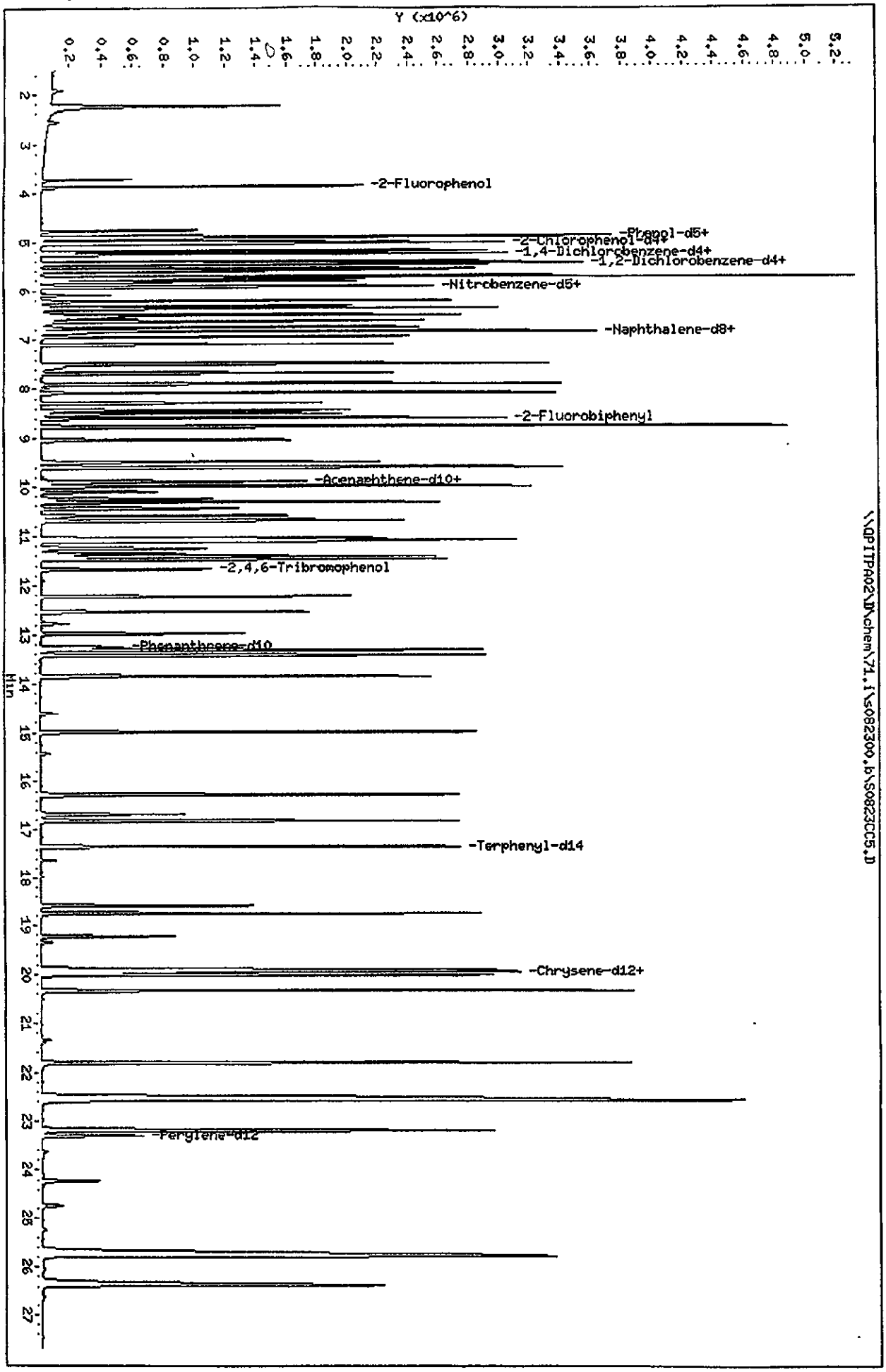


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

670 202



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Date : 23-AUG-2000 21:50
Client ID: sstd160
Sample Info: sstd160(80 ug/ml) 194-188-7 8270/clp

Instrument: 71.i
Operator: 045183
Column diameter: 0.25

Column phase: Hp5-MS

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823CC5.D
Lab Smp Id: sstd160 Client Smp ID: sstd160
Inj Date : 23-AUG-2000 21:50
Operator : 045183 Inst ID: 71.i
Smp Info : sstd160(80 ug/ml) 194-188-7 8270/clp
Misc Info : sstd160,s082300.b,8270clp.m,1-8270l.sub,1,5
Comment :
Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
Meth Date : 24-Aug-2000 08:47 BachaS Quant Type: ISTD
Cal Date : 23-AUG-2000 21:50 Cal File: S0823CC5.D
Als bottle: 98 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8270l.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	5.235	5.235	(1.000)	158484	40.0000	
* 2 Naphthalene-d8	136	6.811	6.811	(1 000)	617599	40.0000	
* 3 Acenaphthene-d10	164	9.910	9.910	(1.000)	324967	40.0000	
* 4 Phenanthrene-d10	188	13.259	13 259	(1.000)	477676	40 0000	
* 5 Chrysene-d12	240	19.937	19.937	(1 000)	667094	40.0000	
* 6 Perylene-d12	264	23.313	23 313	(1.000)	561940	40.0000	
13 N-Nitrosodimethylamine	74	2.228	2.228	(0.426)	562936	160.000	141.94(M)
10 Pyridine	79	2.222	2.222	(0.425)	937416	160.000	142.92(M)
19 Methyl methanesulfonate	80	3.734	3.734	(0 713)	313330	160.000	162.22(A)
22 Aniline	93	4.925	4.925	(0.941)	1249284	160.000	150.85
23 Phenol	94	4.909	4.909	(0.938)	1250434	160 000	150.79
24 bis(2-Chloroethyl)ether	93	5.000	5.000	(0.955)	990841	160.000	156 78
25 2-Chlorophenol	128	5.043	5.043	(0.963)	885805	160.000	154.73
27 1,3-Dichlorobenzene	146	5.192	5.192	(0.992)	921491	160.000	154.25
28 1,4-Dichlorobenzene	146	5.251	5.251	(1.003)	935389	160.000	154.35
29 1,2-Dichlorobenzene	146	5.465	5.465	(1.044)	846528	160.000	152.12
30 Benzyl Alcohol	108	5.417	5.417	(1.035)	701275	160.000	163.63(AM)
31 2-Methylphenol	108	5.561	5.561	(1.062)	894094	160.000	163.65(A)
32 2,2'-oxybis(1-Chloropropane)	45	5.598	5.598	(1.069)	1636924	160.000	158.80
33 N-Nitroso-di-n-propylamine	70	5.769	5.769	(1.102)	780849	160.000	169.27(A)
35 4-Methylphenol	108	5.727	5.727	(1.094)	874648	160.000	152.94
38 Hexachloroethane	117	5.817	5.817	(1.111)	356460	160.000	158.67
39 Nitrobenzene	77	5.935	5.935	(0.871)	1085687	160.000	162.33(A)
44 Isophorone	82	6.223	6.223	(0.914)	1884181	160.000	163.42(A)
45 2-Nitrophenol	139	6.325	6.325	(0.929)	469300	160.000	166.28(A)
46 2,4-Dimethylphenol	107	6.368	6.368	(0.935)	908694	160.000	163.93(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.507	6.507	(0.955)	1131106	160.000	159.74
51 2,4-Dichlorophenol	162	6.629	6.629	(0.973)	686448	160.000	163.90(A)
52 Benzoic Acid	122	6.571	6.571	(0.965)	525405	160.000	183.07(A)
53 1,2,4-Trichlorobenzene	180	6.752	6.752	(0.991)	687843	160.000	157 10
54 Naphthalene	128	6.843	6.843	(1.005)	2559878	160.000	154.35
55 4-Chloroaniline	127	6 939	6.939	(1.019)	1059491	160.000	161.90(A)
59 Hexachlorobutadiene	225	7.100	7.100	(1.042)	374409	160 000	156.67
62 4-Chloro-3-Methylphenol	107	7.682	7.682	(1.128)	801877	160.000	172.11(A)
65 2-Methylnaphthalene	142	7.906	7.906	(1.161)	1666147	160.000	161.67(A)
66 1-Methylnaphthalene	142	8.088	8.088	(1.187)	1562294	160.000	161 66(A)
67 Hexachlorocyclopentadiene	237	8.296	8.296	(0.837)	457379	160.000	162.57(A)
69 2,4,6-Trichlorophenol	196	8.446	8.446	(0.852)	463825	160.000	159.80
70 2,4,5-Trichlorophenol	196	8.515	8.515	(0.859)	497963	160.000	161.39(A)
73 2-Chloronaphthalene	162	8.772	8.772	(0.885)	1425934	160.000	147.61
77 2-Nitroaniline	65	9.039	9.039	(0.912)	573370	160.000	170.15(A)
80 Dimethylphthalate	163	9 488	9.488	(0.957)	1678052	160.000	163.16(A)
82 2,6-Dinitrotoluene	165	9.616	9.616	(0.970)	389112	160.000	172.76(A)
83 Acenaphthylene	152	9.594	9.594	(0.968)	2341592	160.000	158.99
85 3-Nitroaniline	138	9.888	9.888	(0.998)	470702	160.000	174.37(A)
86 Acenaphthene	153	9.984	9.984	(1.008)	1472016	160.000	161.79(A)
87 2,4-Dinitrophenol	184	10.102	10.102	(1.019)	194204	160.000	212.45(A)
89 4-Nitrophenol	109	10.257	10.257	(1.035)	223441	160.000	173.37(A)
90 Dibenzofuran	168	10.326	10.326	(1.042)	2047846	160 000	162.25(A)
91 2,4-Dinitrotoluene	165	10.449	10.449	(1.054)	487878	160.000	177.22(A)
95 2,3,5,6-Tetrachlorophenol	232	10.599	10.599	(1.070)	391311	160.000	172.95(A)
92 2,3,4,6-Tetrachlorophenol	232	10.700	10.700	(1.080)	396609	160.000	169.64(A)
96 2-Naphthylamine	143	10.679	10.679	(1.078)	872004	160.000	137.95
97 Diethylphthalate	149	11.042	11 042	(1.114)	1632012	160.000	169.54(A)
98 Fluorene	166	11.085	11.085	(1.119)	1767446	160.000	167 72(A)
99 4-Chlorophenyl-phenylether	204	11.117	11.117	(1.122)	798995	160.000	167.13(A)
100 4-Nitroaniline	138	11.261	11.261	(1.136)	459031	160.000	174 66(A)
102 4,6-Dinitro-2-methylphenol	198	11.357	11.357	(0.857)	274483	160.000	206.57(A)
103 N-Nitrosodiphenylamine (1)	169	11.416	11.416	(0.861)	1254604	160.000	170.20(A)
104 1,2-Diphenylhydrazine	77	11.475	11.475	(0.865)	2112309	160.000	167.85(A)
112 4-Bromophenyl-phenylether	248	12.233	12.233	(0.923)	442492	160.000	170.75(A)
113 Hexachlorobenzene	284	12.549	12.549	(0.946)	472512	160.000	170.55(A)
117 Pentachlorophenol	266	12.981	12.981	(0.979)	301246	160.000	184.83(A)
122 Phenanthrene	178	13.318	13.318	(1.004)	2318723	160.000	170.07(A)
123 Anthracene	178	13.425	13.425	(1.012)	2454796	160.000	173.68(A)
126 Carbazole	167	13.863	13.863	(1.046)	2359610	160.000	176.46(A)
130 Di-n-Butylphthalate	149	14.995	14.995	(1.131)	2716698	160 000	177.70(A)
135 Fluoranthene	202	16.277	16.277	(1.228)	2509278	160.000	180 92(A)
136 Benzidine	184	16.689	16.689	(0.837)	832914	160.000	154.69
137 Pyrene	202	16.828	16.828	(0.844)	2609675	160.000	155 49
144 Butylbenzylphthalate	149	18.756	18.756	(0.941)	1257178	160.000	165.99(A)
149 3,3'-Dichlorobenzidine	252	19.937	19.937	(1.000)	1205931	160.000	158.13
150 Benzo(a)Anthracene	228	19.899	19.899	(0.998)	2743986	160.000	163.13(A)

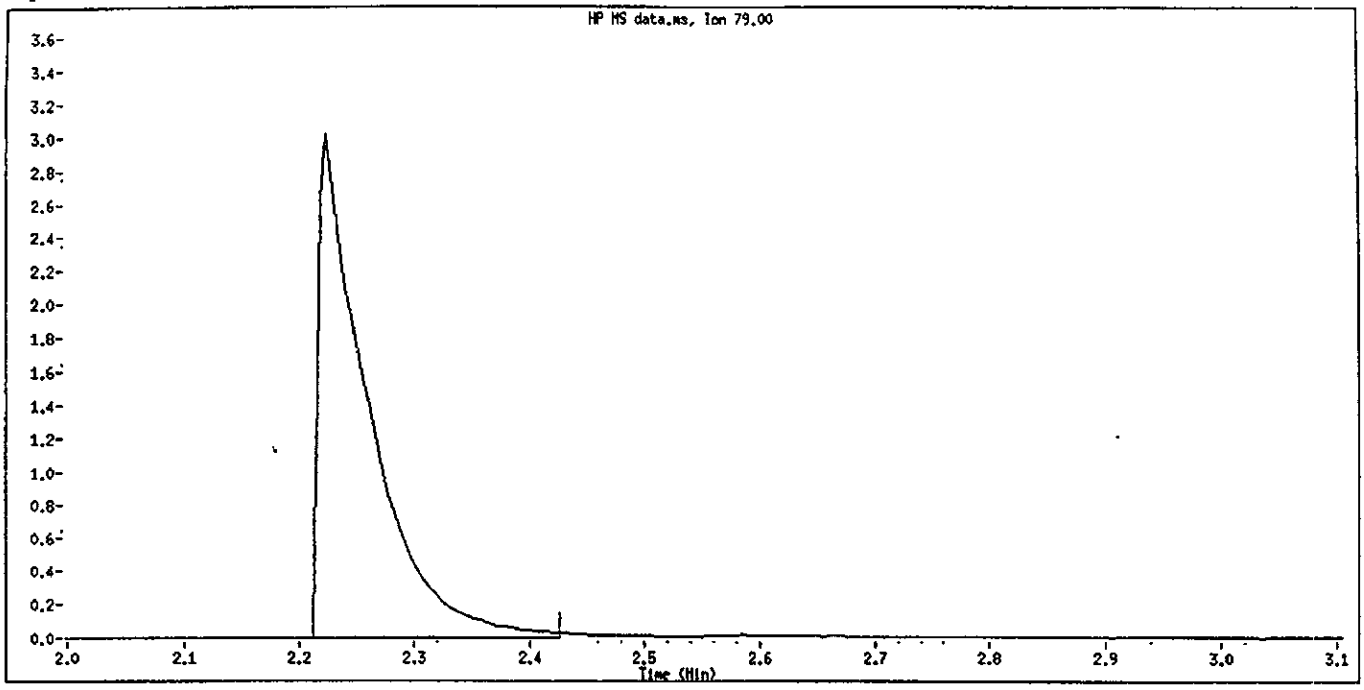
Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823CC5.D
Report Date: 24-Aug-2000 08:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
151 Chrysene	228	20.012	20 012	(1.004)	2614704	160.000	163 65(A)
153 bis(2-ethylhexyl)Phthalate	149	20 332	20.332	(1.020)	1843827	160.000	166.94(A)
155 Di-n-octylphthalate	149	21 812	21.812	(0.936)	3281635	160 000	173.22(A)
157 Benzo(b)fluoranthene	252	22.517	22.517	(0.966)	3537380	160.000	192.99(A)
158 Benzo(k)fluoranthene	252	22.586	22.586	(0 969)	3121962	160.000	144.10
159 7,12-dimethylbenz[a]anthracen	256	22.576	22.576	(0 968)	1561556	160 000	162.96(A)
167 Benzo(a)pyrene	252	23.206	23.206	(0.995)	3000220	160.000	175.73(A)
169 Indeno(1,2,3-cd)pyrene	276	25.722	25.722	(1.103)	4278011	160.000	178.94(A)
170 Dibenz(a,h)anthracene	278	25.765	25.765	(1.105)	3967286	160.000	180.52(A)
171 Benzo(g,h,i)perylene	276	26.369	26.369	(1.131)	3590272	160.000	182.59(A)
$ 172 Nitrobenzene-d5	82	5.914	5.914	(0.868)	1053665	160.000	162.16(A)
$ 173 2-Fluorobiphenyl	172	8 595	8.595	(0.867)	1651323	160.000	154.18
$ 174 Terphenyl-d14	244	17.346	17.346	(0.870)	2118885	160.000	154.43
$ 175 Phenol-d5	99	4.893	4.893	(0.935)	1158272	160.000	153.24
$ 176 2-Fluorophenol	112	3 878	3.878	(0.741)	874004	160.000	151.77
$ 177 2,4,6-Tribromophenol	330	11.678	11 678	(0.881)	238693	160.000	174.18(A)
$ 178 2-Chlorophenol-d4	132	5.027	5.027	(0.960)	773435	160.000	153.34
$ 179 1,2-Dichlorobenzene-d4	152	5.449	5.449	(1.041)	531245	160.000	151.06

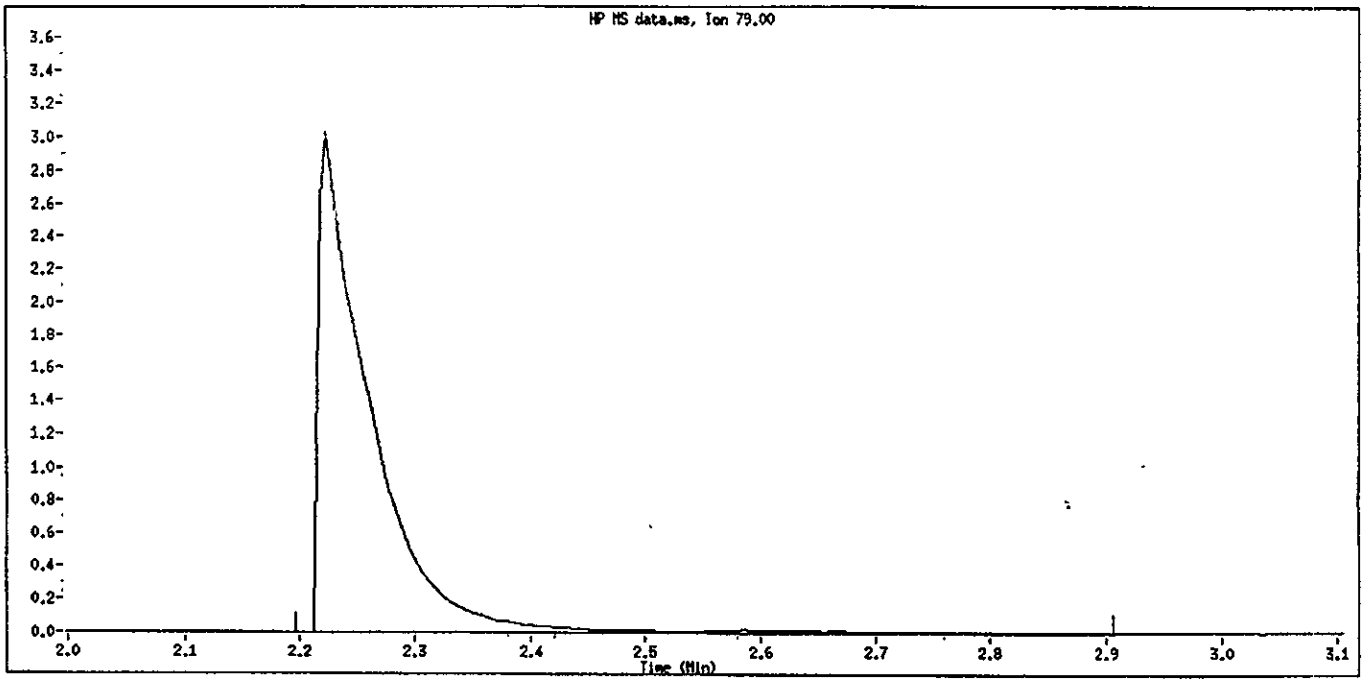
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File Name: S0823CC5.D
Inj Date and Time: 23-AUG-2000 21:50
Instrument ID: 71.1
Client ID: sstd160
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 08/24/2000



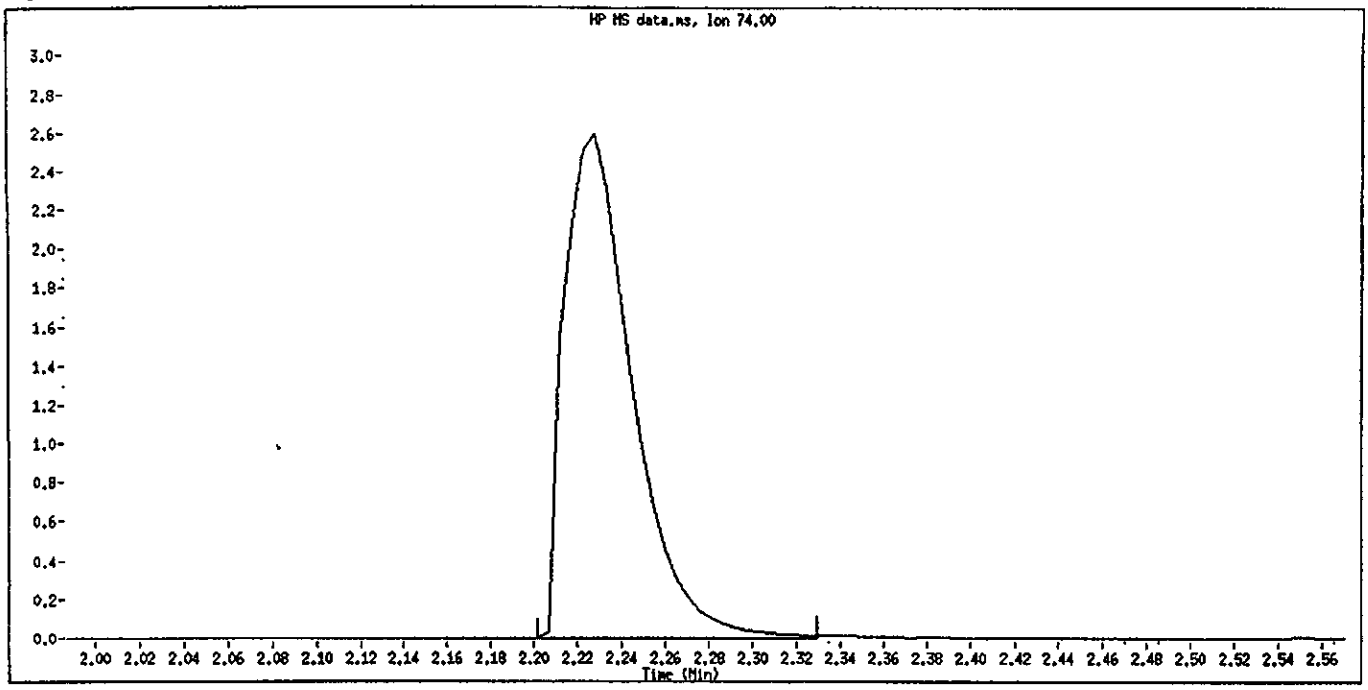
Original Integration



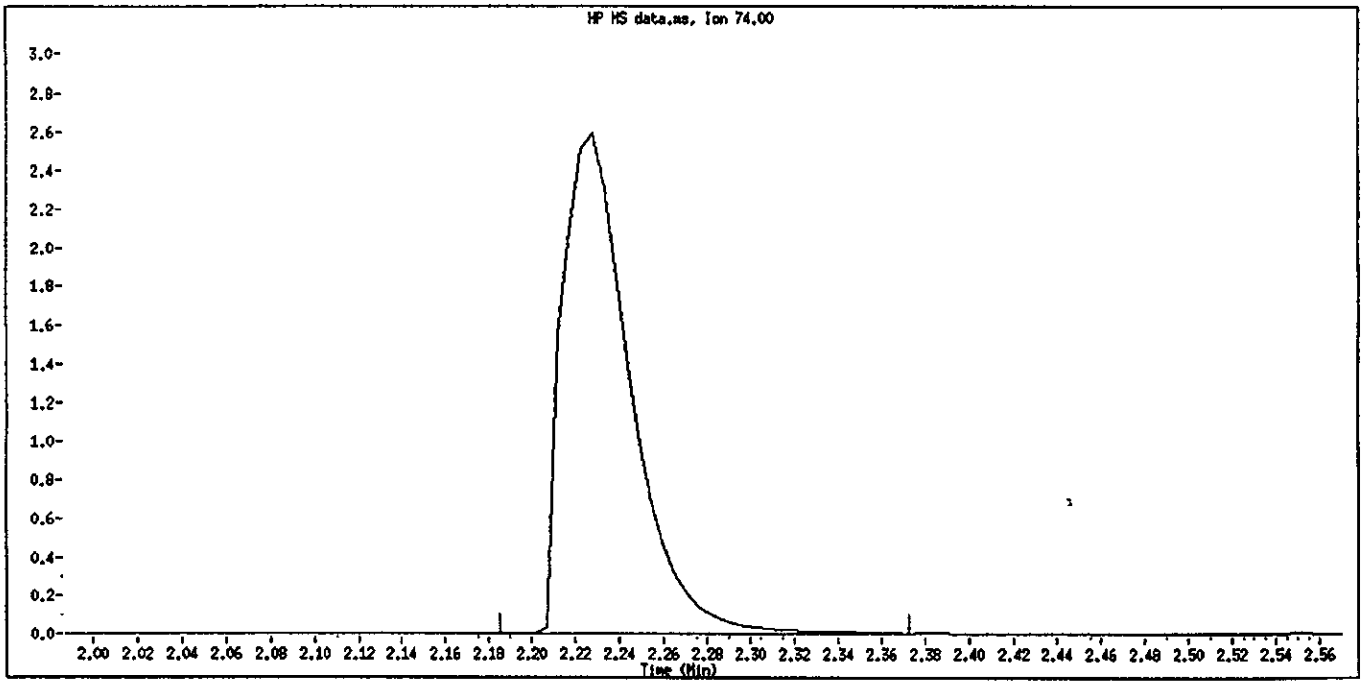
Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name. S0823CC5 D
Inj. Date and Time: 23-AUG-2000 21:50
Instrument ID: 71.1
Client ID: sstd160
Compound Name. N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 08/24/2000



Original Integration

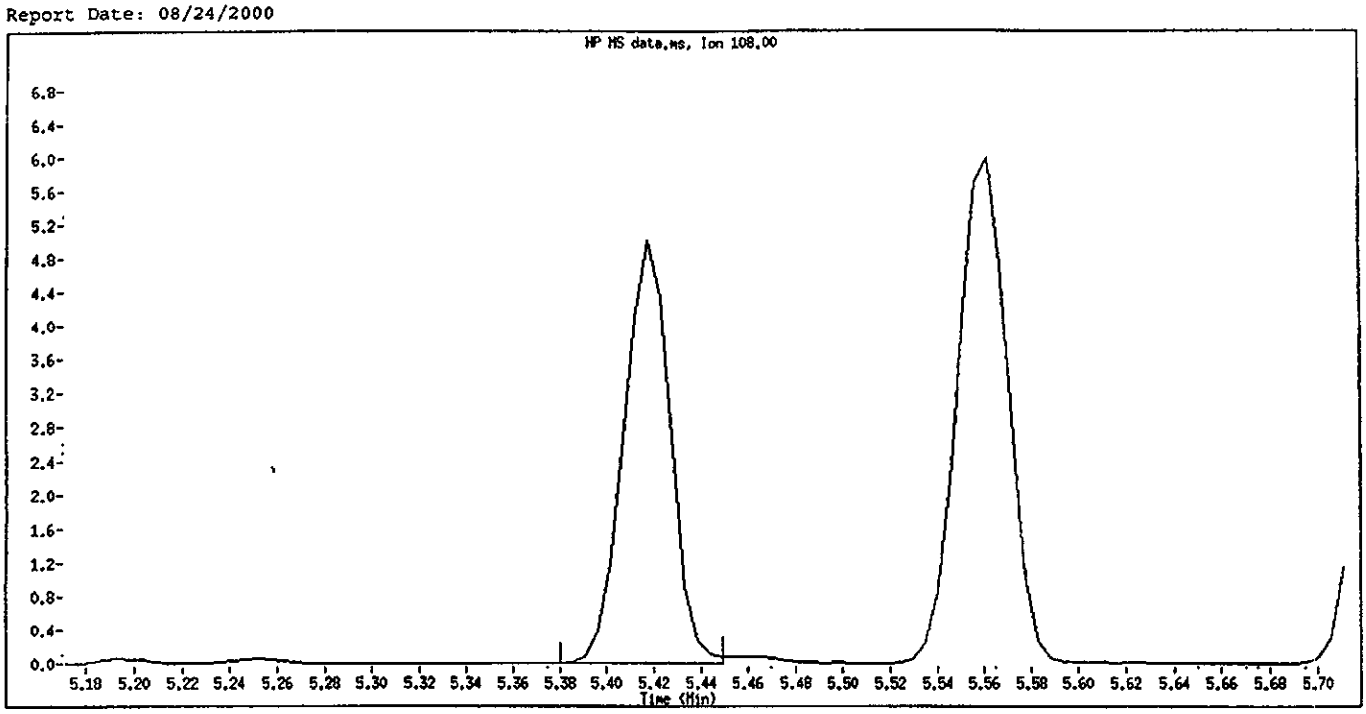


Manual Integration

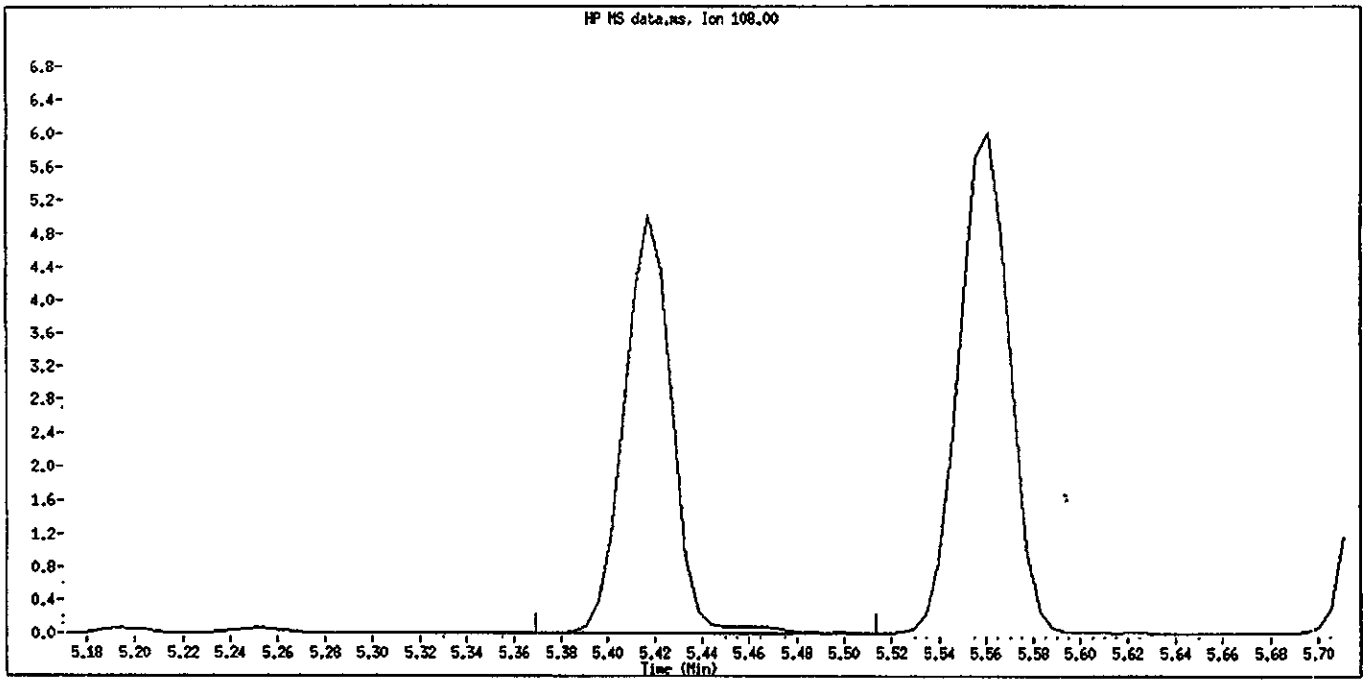
Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

670 208

Data File Name. S0823CC5.D
Inj. Date and Time: 23-AUG-2000 21:50
Instrument ID: 71 1
Client ID sstd160
Compound Name: Benzyl Alcohol
CAS #: 100-51-6
Report Date: 08/24/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

670 209

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: C4H170113

Instrument ID: 71 Calibration Date(s): 08/24/00

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF1 =S0824C01.D RRF2 =S0824CCC.D
RRF3 =S0824C03.D RRF4 =S0824C04.D RRF5 =S0824C05.D

COMPOUND		RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD
Phenol	*	1.808	1.901	1.804	1.745	1.741	1.800	3.6*
bis(2-Chloroethyl)ether		1.377	1.450	1.346	1.316	1.314	1.361	4.1
2-Chlorophenol		1.302	1.346	1.297	1.290	1.286	1.304	1.9
1,3-Dichlorobenzene		1.457	1.489	1.420	1.400	1.361	1.425	3.5
1,4-Dichlorobenzene	*	1.478	1.529	1.453	1.416	1.384	1.452	3.9*
1,2-Dichlorobenzene		1.362	1.432	1.344	1.312	1.280	1.346	4.3
2-Methylphenol		1.186	1.217	1.187	1.156	1.180	1.185	1.8
2,2'-oxybis(1-Chloropropane		1.598	1.673	1.545	1.516	1.492	1.565	4.6
4-Methylphenol		1.264	1.341	1.265	1.234	1.229	1.267	3.5
Hexachloroethane		0.519	0.545	0.522	0.522	0.510	0.524	2.5
Nitrobenzene		0.370	0.395	0.369	0.368	0.356	0.372	3.9
Isophorone		0.644	0.692	0.646	0.636	0.624	0.648	3.9
2-Nitrophenol	*	0.122	0.126	0.164	0.180	0.184	0.155	19.0*
2,4-Dimethylphenol		0.328	0.341	0.337	0.332	0.331	0.334	1.6
bis(2-Chloroethoxy)methane		0.410	0.440	0.413	0.413	0.405	0.416	3.3
N-Nitroso-di-n-propylamine	#	0.917	0.966	0.905	0.884	0.898	0.914	3.4#
2,4-Dichlorophenol	*	0.262	0.281	0.286	0.286	0.286	0.280	3.7*
1,2,4-Trichlorobenzene		0.301	0.318	0.315	0.319	0.314	0.313	2.3
Naphthalene		1.074	1.124	1.025	1.003	0.957	1.037	6.2
4-Chloroaniline		0.402	0.426	0.420	0.415	0.412	0.415	2.2
Hexachlorobutadiene	*	0.176	0.193	0.193	0.201	0.198	0.192	4.9*
4-Chloro-3-Methylphenol	*	0.266	0.290	0.300	0.294	0.299	0.290	4.8*
2-Methylnaphthalene		0.671	0.709	0.677	0.670	0.662	0.678	2.7
Hexachlorocyclopentadiene	#	0.249	0.296	0.342	0.389	0.396	0.334	18.6#
2,4,6-Trichlorophenol	*	0.304	0.340	0.353	0.370	0.376	0.349	8.2*
2,4,5-Trichlorophenol		0.353	0.391	0.396	0.412	0.416	0.394	6.4
2-Chloronaphthalene		1.112	1.215	1.130	1.156	1.087	1.140	4.3
2-Nitroaniline		0.235	0.285	0.324	0.340	0.340	0.305	14.7
Dimethylphthalate		1.205	1.300	1.271	1.292	1.270	1.268	2.9
Acenaphthylene		1.730	1.891	1.788	1.796	1.716	1.784	3.9
2,6-Dinitrotoluene		0.196	0.239	0.268	0.283	0.287	0.255	14.7
3-Nitroaniline		0.260	0.299	0.328	0.341	0.347	0.315	11.5
Acenaphthene	*	1.119	1.201	1.138	1.150	1.112	1.144	3.1*
2,4-Dinitrophenol	#	0.036	0.056	0.094	0.126	0.152	0.093	51.8#<-
4-Nitrophenol	#	0.127	0.156	0.162	0.176	0.187	0.162	14.0#
Dibenzofuran		1.565	1.651	1.593	1.600	1.557	1.593	2.3
2,4-Dinitrotoluene		0.246	0.310	0.350	0.369	0.383	0.332	16.7

670 210

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: CCH7013

Instrument ID: 71 Calibration Date(s): 08/24/00

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF1 =S0824C01.D RRF2 =S0824CCC.D
RRF3 =S0824C03.D RRF4 =S0824C04.D RRF5 =S0824C05.D

COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD
Diethylphthalate	1.153	1.260	1.270	1.277	1.282	1.248	4.3
4-Chlorophenyl-phenylether	0.586	0.642	0.643	0.662	0.669	0.640	5.1
Fluorene	1.231	1.354	1.322	1.328	1.318	1.311	3.6
4-Nitroaniline	0.263	0.309	0.325	0.341	0.353	0.318	11.0
4,6-Dinitro-2-methylphenol	0.035	0.053	0.086	0.107	0.120	0.080	44.9
N-Nitrosodiphenylamine (1) *	0.514	0.543	0.547	0.554	0.546	0.541	2.9*
4-Bromophenyl-phenylether	0.176	0.201	0.207	0.217	0.225	0.205	9.1
Hexachlorobenzene	0.194	0.220	0.227	0.241	0.250	0.226	9.5
Pentachlorophenol *	0.070	0.102	0.123	0.143	0.155	0.119	28.6*
Phenanthrene	0.972	1.068	1.021	1.045	1.022	1.026	3.5
Anthracene	0.965	1.092	1.059	1.086	1.065	1.053	4.9
Carbazole	0.888	1.018	0.983	1.034	1.022	0.989	6.0
Di-n-Butylphthalate	0.888	1.058	1.139	1.201	1.180	1.093	11.6
Fluoranthene *	0.908	1.101	1.081	1.160	1.179	1.086	9.9*
Pyrene	1.052	1.038	0.995	0.990	0.956	1.006	3.8
Butylbenzylphthalate	0.276	0.286	0.404	0.433	0.430	0.366	21.5
3,3'-Dichlorobenzidine	0.316	0.370	0.423	0.448	0.436	0.399	13.7
Benzo(a)Anthracene	0.917	0.980	0.973	1.018	0.999	0.977	3.9
Chrysene	0.934	0.953	0.932	0.963	0.932	0.943	1.5
bis(2-ethylhexyl)Phthalate	0.366	0.409	0.568	0.612	0.605	0.512	22.6
Di-n-octylphthalate *	0.588	0.716	1.057	1.156	1.229	0.949	29.7*
Benzo(b)fluoranthene	0.988	1.102	1.203	1.327	1.505	1.225	16.4
Benzo(k)fluoranthene	1.313	1.638	1.650	1.655	1.482	1.548	9.7
Benzo(a)pyrene *	0.965	1.110	1.168	1.242	1.251	1.147	10.2*
Indeno(1,2,3-cd)pyrene	1.215	1.467	1.600	1.784	1.802	1.574	15.5
Dibenz(a,h)anthracene	1.069	1.284	1.458	1.623	1.636	1.414	17.0
Benzo(g,h,i)perylene	1.053	1.225	1.288	1.454	1.456	1.295	13.1
Pyridine	1.436	1.521	1.406	1.376	1.342	1.416	4.8
N-Nitrosodimethylamine	0.831	0.920	0.851	0.831	0.823	0.851	4.7
Aniline	1.814	1.852	1.749	1.669	1.648	1.746	5.1
Benzyl Alcohol	0.906	0.922	0.926	0.911	0.923	0.918	0.9
Benzoic Acid	0.068	0.061	0.127	0.154	0.183	0.119	44.8
1-Methylnaphthalene	0.632	0.667	0.643	0.630	0.617	0.638	2.9
2,3,4,6-Tetrachlorophenol	0.270	0.301	0.324	0.344	0.362	0.320	11.3
2,3,5,6-Tetrachlorophenol	0.225	0.256	0.295	0.319	0.336	0.286	15.8

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: SDG No.: CHI70113

Instrument ID: 71 Calibration Date(s): 08/24/00

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF1 =S0824C01.D RRF2 =S0824CCC.D
RRF3 =S0824C03.D RRF4 =S0824C04.D RRF5 =S0824C05.D

COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD
1,2-Diphenylhydrazine	0.739	0.847	0.764	0.765	0.717	0.766	6.4
Benzidine	0.180	0.188	0.281	0.319	0.306	0.255	25.9
Methyl methanesulfonate	0.420	0.437	0.407	0.395	0.391	0.410	4.6
2-Naphthylamine	0.849	0.780	0.708	0.660	0.616	0.723	12.9
7,12-dimethylbenz[a]anthrac	0.494	0.671	0.742	0.768	0.759	0.687	16.7
Nitrobenzene-d5	0.347	0.368	0.355	0.359	0.348	0.355	2.4
2-Fluorobiphenyl	1.314	1.384	1.278	1.317	1.257	1.310	3.7
Terphenyl-d14	0.779	0.785	0.779	0.787	0.779	0.782	0.5
Phenol-d5	1.628	1.685	1.615	1.570	1.570	1.614	2.9
2-Fluorophenol	1.269	1.329	1.269	1.269	1.248	1.277	2.4
2,4,6-Tribromophenol	0.071	0.082	0.097	0.109	0.116	0.095	19.5
2-Chlorophenol-d4	1.169	1.213	1.184	1.167	1.150	1.177	2.0
1,2-Dichlorobenzene-d4	0.909	0.942	0.890	0.889	0.869	0.900	3.0

FORM VI SV-3 1/87 Rev.

670 212
Data File: \\QPITPA02\D\chem\71.i\s082400.b/S0824CCC.D
Report Date: 08/25/2000

INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0824CCC.D
Analysis Type: NONE

Injection Date: 24-AUG-2000 15:30
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s082400.b\

COMPOUND	%RSD
Benzo(b)fluoranthene	16.4
Benzo(k)fluoranthene	9.7
7,12-dimethylbenz[a]anthracen	16.7
Benzo(a)pyrene	10.2
Indeno(1,2,3-cd)pyrene	15.5
Dibenz(a,h)anthracene	17.0
Benzo(g,h,i)perylene	13.1

The average of all %RSD's in the initial calibration is 9.4

INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0824CCC.D
Analysis Type: NONE

Injection Date: 24-AUG-2000 15:30
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s082400.b\8270clp

COMPOUND	%RSD
N-Nitrosodimethylamine	4.7
Pyridine	4.8
Methyl methanesulfonate	4.6
2-Fluorophenol	2.4
Phenol-d5	2.9
Phenol	3.6
Aniline	5.1
bis(2-Chloroethyl)ether	4.1
2-Chlorophenol-d4	2.0
2-Chlorophenol	1.9
1,3-Dichlorobenzene	3.5
1,4-Dichlorobenzene	3.9
Benzyl Alcohol	0.9
1,2-Dichlorobenzene-d4	3.0
1,2-Dichlorobenzene	4.3
2-Methylphenol	1.8
2,2'-oxybis(1-Chloropropane)	4.6
4-Methylphenol	3.5
N-Nitroso-di-n-propylamine	3.4
Hexachloroethane	2.5
Nitrobenzene-d5	2.4
Nitrobenzene	3.9
Isophorone	3.9
2-Nitrophenol	19.0
2,4-Dimethylphenol	1.6
bis(2-Chloroethoxy)methane	3.3
Benzoic Acid	44.8
2,4-Dichlorophenol	3.7
1,2,4-Trichlorobenzene	2.3
Naphthalene	6.2
4-Chloroaniline	2.2
Hexachlorobutadiene	4.9
4-Chloro-3-Methylphenol	4.8
2-Methylnaphthalene	2.7
1-Methylnaphthalene	2.9
Hexachlorocyclopentadiene	18.6
2,4,6-Trichlorophenol	8.2
2,4,5-Trichlorophenol	6.4
2-Fluorobiphenyl	3.7

Data File: \\QPITPA02\D\chem\71.i\s082400.b/S0824CCC.D
Report Date: 08/25/2000

INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0824CCC.D
Analysis Type: NONE

Injection Date: 24-AUG-2000 15:30
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s082400.b\

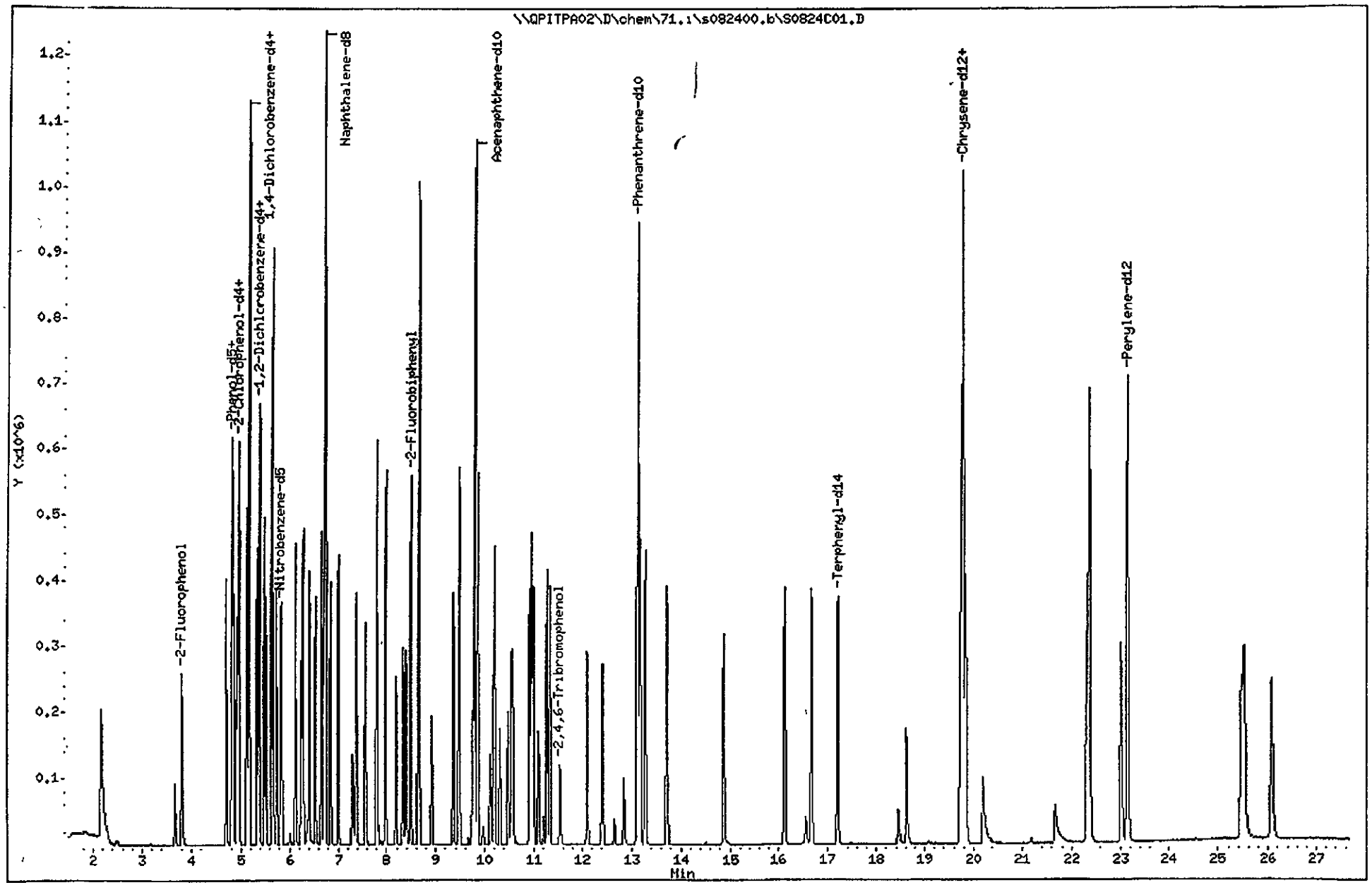
COMPOUND	%RSD
2-Chloronaphthalene	4.3
2-Nitroaniline	14.7
Dimethylphthalate	2.9
Acenaphthylene	3.9
2,6-Dinitrotoluene	14.7
3-Nitroaniline	11.5
Acenaphthene	3.1
2,4-Dinitrophenol	51.8
4-Nitrophenol	14.0
Dibenzofuran	2.3
2,4-Dinitrotoluene	16.7
2,3,5,6-Tetrachlorophenol	15.8
2-Naphthylamine	12 9
2,3,4,6-Tetrachlorophenol	11.3
Diethylphthalate	4.3
Fluorene	3.6
4-Chlorophenyl-phenylether	5.1
4-Nitroaniline	11.0
4,6-Dinitro-2-methylphenol	44.9
N-Nitrosodiphenylamine (1)	2.9
1,2-Diphenylhydrazine	6.4
2,4,6-Tribromophenol	19.5
4-Bromophenyl-phenylether	9.1
Hexachlorobenzene	9.5
Pentachlorophenol	28.6
Phenanthrene	3.5
Anthracene	4 9
Carbazole	6.0
Di-n-Butylphthalate	11.6
Fluoranthene	9.9
Benzidine	25.9
Pyrene	3.8
Terphenyl-d14	0.5
Butylbenzylphthalate	21.5
Benzo(a)Anthracene	3.9
3,3'-Dichlorobenzidine	13.7
Chrysene	1.5
bis(2-ethylhexyl)Phthalate	22.6
Di-n-octylphthalate	29.7

Data File: \\QPITPA02\D\chem\71.1\s082400.b\S0824C01.D
Date : 24-AUG-2000 16:04
Client ID: SSTD20
Sample Info: sstd20(10 ug/ml) 194-188-3 8270/olp

Column phase: Hp5-MS

Instrument: 71.1

Operator: 045183
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824C01.D
Lab Smp Id: sstd50 Client Smp ID: SSTD20
Inj Date : 24-AUG-2000 16:04
Operator : 045183 Inst ID: 71.i
Smp Info : sstd20(10 ug/ml) 194-188-3 8270/clp
Misc Info : sstd50,s082400.b,8270clp.m,1-8270l.sub,1,1
Comment :
Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
Meth Date : 25-Aug-2000 10:01 bachas Quant Type: ISTD
Cal Date : 24-AUG-2000 16:04 Cal File: S0824C01.D
Als bottle: 96 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8270l.sub
Target Version: 4.04
Processing Host: PITPC050

8/25/00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1	1,4-Dichlorobenzene-d4	152	5.159	5.159	(1.000)	232602	40.0000	
* 2	Naphthalene-d8	136	6.714	6.714	(1.000)	857958	40.0000	
* 3	Acenaphthene-d10	164	9.791	9.791	(1.000)	467922	40.0000	
* 4	Phenanthrene-d10	188	13.119	13.119	(1.000)	811091	40.0000	
* 5	Chrysene-d12	240	19.776	19.776	(1.000)	728901	40.0000	
* 6	Perylene-d12	264	23.146	23.146	(1.000)	639978	40.0000	
13	N-Nitrosodimethylamine	74	2.157	2.157	(0.418)	96682	20.0000	18.983
10	Pyridine	79	2.168	2.168	(0.420)	166954	20.0000	19.420(M)
19	Methyl methanesulfonate	80	3.669	3.669	(0.711)	48804	20.0000	19.592
22	Aniline	93	4.850	4.850	(0 940)	210977	20.0000	19.792
23	Phenol	94	4.828	4.828	(0.936)	210261	20.0000	19.499
24	bis(2-Chloroethyl)ether	93	4.919	4.919	(0.953)	160127	20.0000	19.479
25	2-Chlorophenol	128	4.962	4 962	(0.962)	151466	20.0000	19.671
27	1,3-Dichlorobenzene	146	5.117	5 117	(0.992)	169468	20.0000	19.781
28	1,4-Dichlorobenzene	146	5.175	5.175	(1.003)	171946	20.0000	19.664
29	1,2-Dichlorobenzene	146	5.384	5.384	(1.043)	158371	20.0000	19.495
30	Benzyl Alcohol	108	5.336	5.336	(1.034)	105421	20.0000	19.828
31	2-Methylphenol	108	5.475	5.475	(1.061)	137996	20.0000	19.743
32	2,2'-oxybis(1-Chloropropane)	45	5.512	5.512	(1.068)	185882	20 0000	19.541
33	N-Nitroso-di-n-propylamine	70	5.672	5.672	(1.099)	106698	20.0000	19 489
35	4-Methylphenol	108	5.635	5.635	(1 092)	146952	20.0000	19.407
38	Hexachloroethane	117	5.736	5.736	(1.112)	60326	20.0000	19.497
39	Nitrobenzene	77	5.843	5.843	(0.870)	158966	20.0000	19.354
44	Isophorone	82	6.121	6.121	(0.912)	276367	20.0000	19.290
45	2-Nitrophenol	139	6.239	6.239	(0.929)	52340	20.0000	19.712
46	2,4-Dimethylphenol	107	6.276	6.276	(0.935)	140556	20.0000	19 590

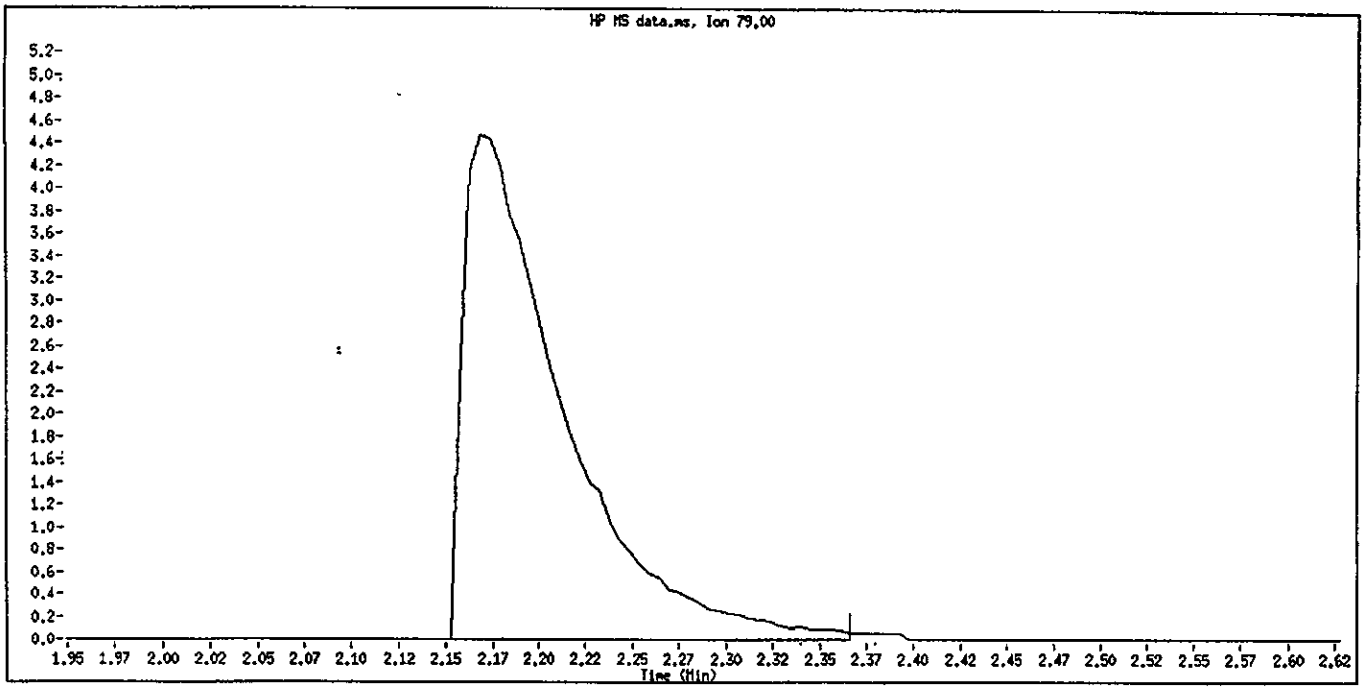
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.409	6.409	(0 955)	175945	20 0000	19 299
51 2,4-Dichlorophenol	162	6.532	6.532	(0.973)	112594	20.0000	19.314
52 Benzoic Acid	122	6.372	6.372	(0.949)	29173	20.0000	21.008 (M)
53 1,2,4-Trichlorobenzene	180	6.655	6 655	(0.991)	129176	20.0000	19.468
54 Naphthalene	128	6 741	6 741	(1.004)	460974	20.0000	19.552
55 4-Chloroaniline	127	6.842	6.842	(1.019)	172269	20.0000	19.416
59 Hexachlorobutadiene	225	7.002	7.002	(1.043)	75754	20.0000	19.087
62 4-Chloro-3-Methylphenol	107	7.569	7.569	(1 127)	114191	20.0000	19.153
65 2-Methylnaphthalene	142	7.798	7.798	(1 162)	287775	20.0000	19.445
66 1-Methylnaphthalene	142	7.980	7.980	(1 189)	270997	20 0000	19.462
67 Hexachlorocyclopentadiene	237	8.194	8 194	(0.837)	58269	20 0000	18.273
69 2,4,6-Trichlorophenol	196	8.333	8.333	(0.851)	71196	20.0000	18.896
70 2,4,5-Trichlorophenol	196	8.391	8.391	(0.857)	82551	20.0000	18.982 (M)
73 2-Chloronaphthalene	162	8.653	8.653	(0.884)	260055	20.0000	19.114
77 2-Nitroaniline	65	8.910	8.910	(0 910)	55036	20.0000	18.083
80 Dimethylphthalate	163	9.358	9 358	(0.956)	281878	20.0000	19.243
82 2,6-Dinitrotoluene	165	9.487	9.487	(0.969)	45977	20 0000	18.040
83 Acenaphthylene	152	9.471	9.471	(0.967)	404852	20.0000	19.111
85 3-Nitroaniline	138	9.748	9.748	(0 996)	60754	20.0000	18.594
86 Acenaphthene	153	9.855	9 855	(1 007)	261800	20 0000	19.293
87 2,4-Dinitrophenol	184	9.967	9.967	(1.018)	8352	20.0000	15.647
89 4-Nitrophenol	109	10.106	10 106	(1 032)	29753	20 0000	17.987
90 Dibenzofuran	168	10.192	10.192	(1.041)	366193	20.0000	19.467
91 2,4-Dinitrotoluene	165	10.304	10.304	(1 052)	57450	20.0000	17.661
95 2,3,5,6-Tetrachlorophenol	232	10.464	10.464	(1.069)	52713	20.0000	18.702
92 2,3,4,6-Tetrachlorophenol	232	10.566	10.566	(1.079)	63164	20 0000	18.907 (M)
96 2-Naphthylamine	143	10.534	10.534	(1.076)	198665	20 0000	20.852
97 Diethylphthalate	149	10.902	10.902	(1.113)	269672	20.0000	19.108
98 Fluorene	166	10.950	10.950	(1.118)	288045	20.0000	19.046
99 4-Chlorophenyl-phenylether	204	10.988	10.988	(1.122)	137214	20.0000	19.099
100 4-Nitroaniline	138	11.089	11.089	(1.133)	61592	20.0000	18 396
102 4,6-Dinitro-2-methylphenol	198	11.196	11.196	(0.853)	14084	20.0000	15.856
103 N-Nitrosodiphenylamine (1)	169	11.271	11.271	(0.859)	208440	20.0000	19.447
104 1,2-Diphenylhydrazine	77	11.335	11.335	(0.864)	299572	20.0000	18.634
112 4-Bromophenyl-phenylether	248	12.104	12.104	(0.923)	71538	20.0000	18.687
113 Hexachlorobenzene	284	12.403	12.403	(0.945)	78875	20.0000	18.776
117 Pentachlorophenol	266	12.847	12 847	(0.979)	28331	20.0000	16.275
122 Phenanthrene	178	13.173	13.173	(1.004)	394019	20.0000	19.058
123 Anthracene	178	13.279	13.279	(1.012)	391468	20.0000	18.772
126 Carbazole	167	13.712	13.712	(1.045)	359981	20.0000	18 632
130 Di-n-Butylphthalate	149	14.866	14.866	(1.133)	360356	20.0000	18.262
135 Fluoranthene	202	16.121	16.121	(1 229)	368182	20.0000	18.077
136 Benzidine	184	16.549	16.549	(0.837)	65605	20 0000	19.559 (M)
137 Pyrene	202	16.666	16 666	(0.843)	383346	20.0000	20.127
144 Butylbenzylphthalate	149	18.622	18.622	(0.942)	100486	20.0000	19.635 (M)
149 3,3'-Dichlorobenzidine	252	19.781	19.781	(1.000)	115345	20.0000	18.426
150 Benzo(a)Anthracene	228	19 738	19.738	(0.998)	334118	20.0000	19.337

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
151 Chrysene	228	19 834	19.834	(1.003)	340413	20 0000	19.803
153 bis(2-ethylhexyl)Phthalate	149	20.203	20.203	(1.022)	133441	20 0000	18.888(M)
155 Di-n-octylphthalate	149	21.667	21.667	(0 936)	188199	20.0000	18.044(M)
157 Benzo(b)fluoranthene	252	22 324	22.324	(0.964)	316215	20.0000	18.915
158 Benzo(k)fluoranthene	252	22.372	22.372	(0.967)	420188	20.0000	17.797
159 7,12-dimethylbenz[a]anthracen	256	22.377	22.377	(0.967)	158049	20 0000	16 955
167 Benzo(a)pyrene	252	23.018	23 018	(0.994)	308822	20 0000	18.606
169 Indeno(1,2,3-cd)pyrene	276	25.460	25.460	(1.100)	388802	20.0000	18.124
170 Dibenz(a,h)anthracene	278	25.508	25.508	(1.102)	341970	20 0000	18.170
171 Benzo(g,h,i)perylene	276	26.069	26.069	(1.126)	336947	20.0000	18.487
$ 172 Nitrobenzene-d5	82	5.822	5.822	(0.867)	148883	20.0000	19.424
$ 173 2-Fluorobiphenyl	172	8.482	8.482	(0.866)	307319	20.0000	19.476
$ 174 Terphenyl-d14	244	17.201	17.201	(0.870)	284020	20.0000	19.921
$ 175 Phenol-d5	99	4.812	4.812	(0.933)	189280	20.0000	19.654
$ 176 2-Fluorophenol	112	3.813	3.813	(0.739)	147542	20 0000	19.537
$ 177 2,4,6-Tribromophenol	330	11.543	11.543	(0.880)	28785	20.0000	18.519
$ 178 2-Chlorophenol-d4	132	4 946	4.946	(0.959)	135934	20 0000	19.630
$ 179 1,2-Dichlorobenzene-d4	152	5 373	5.373	(1.041)	105772	20.0000	19.653

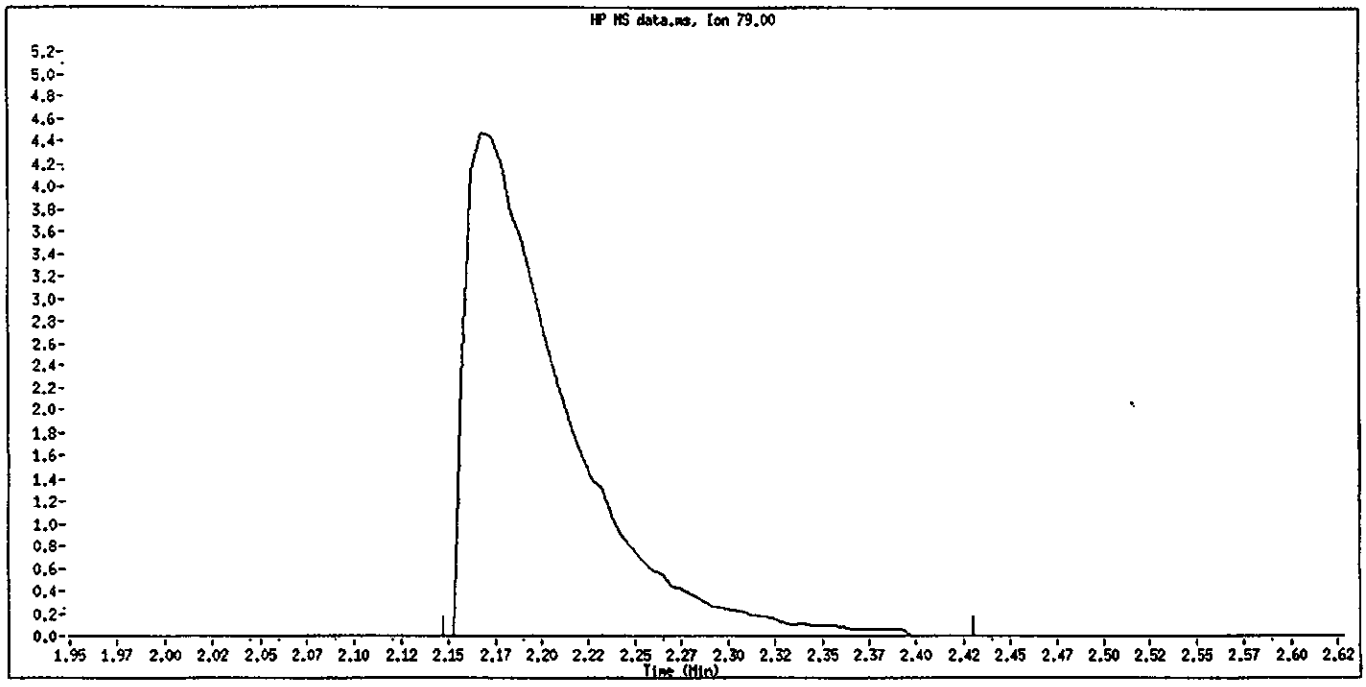
QC Flag Legend

M - Compound response manually integrated.

Data File Name. S0824C01.D
Inj. Date and Time: 24-AUG-2000 16:04
Instrument ID: 71.i
Client ID: SSTD20
Compound Name Pyridine
CAS #: 110-86-1
Report Date: 08/25/2000



Original Integration

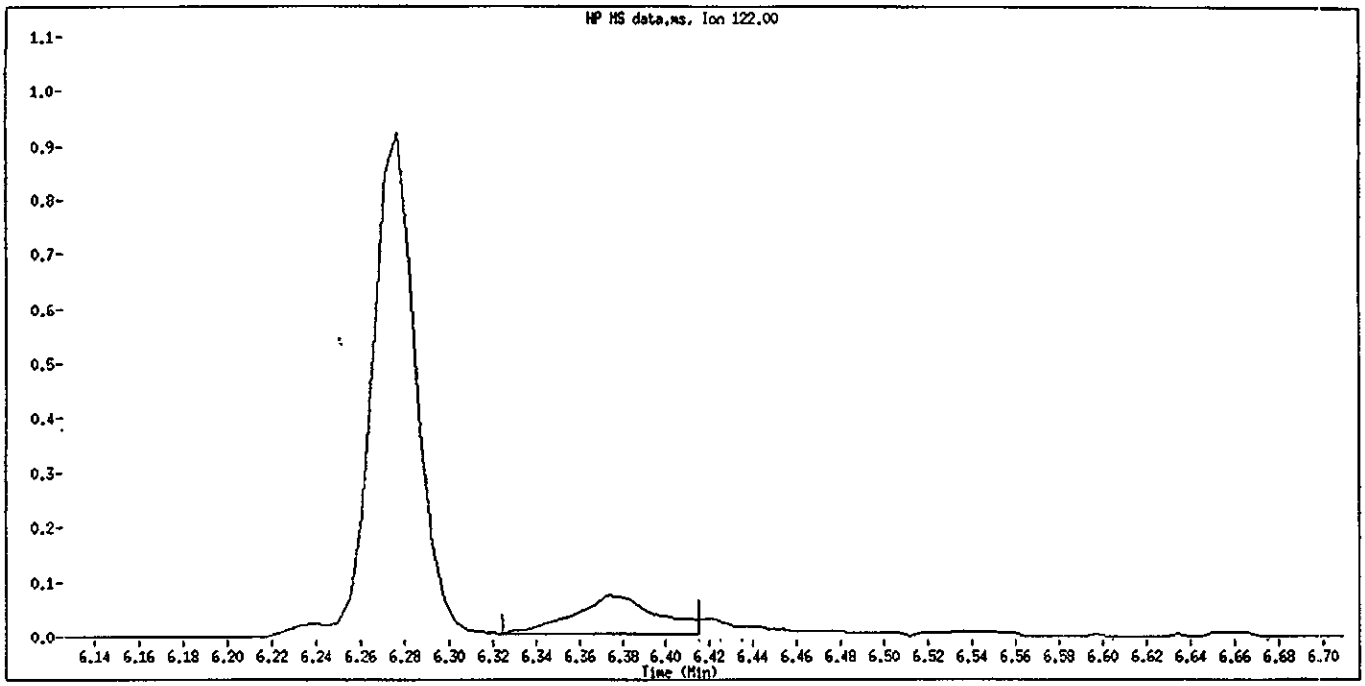


Manual Integration

Manually Integrated By BachaS
Manual Integration Reason: Poor Chromatography

670 220

Data File Name S0824C01 D
Inj. Date and Time 24-AUG-2000 16:04
Instrument ID. 71.i
Client ID. SSTD20
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 08/25/2000



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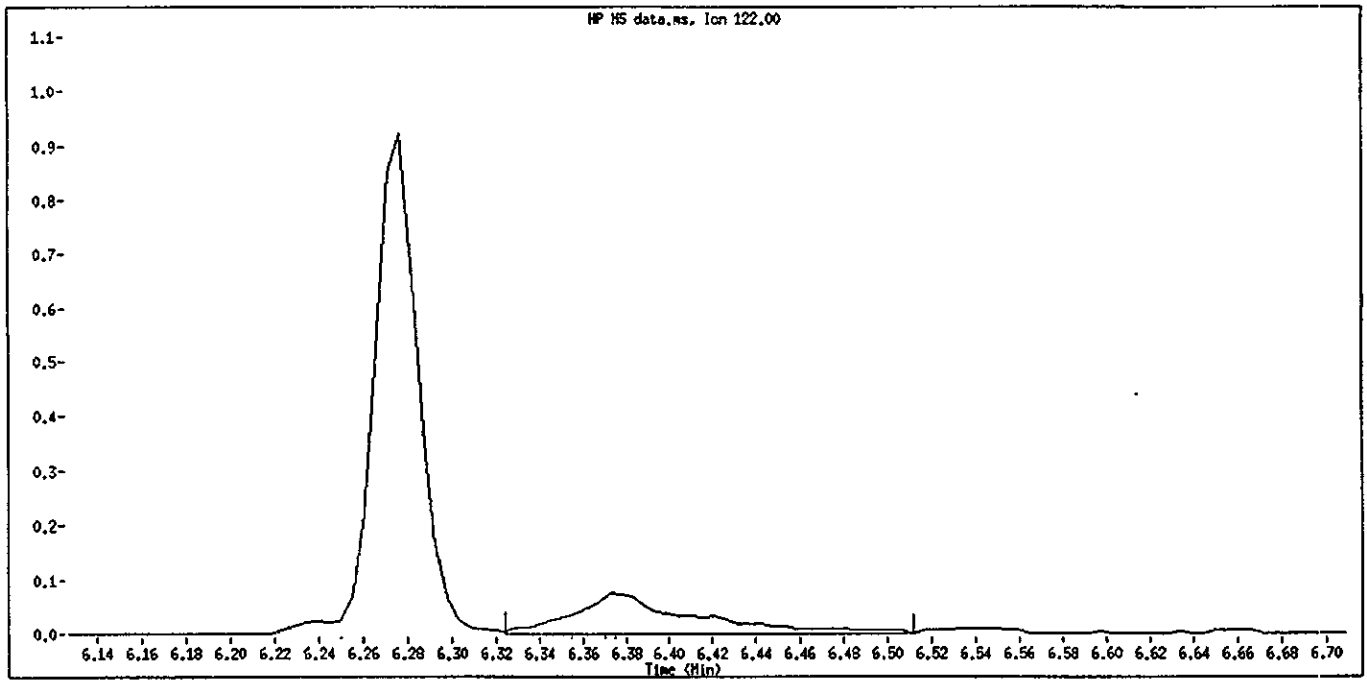
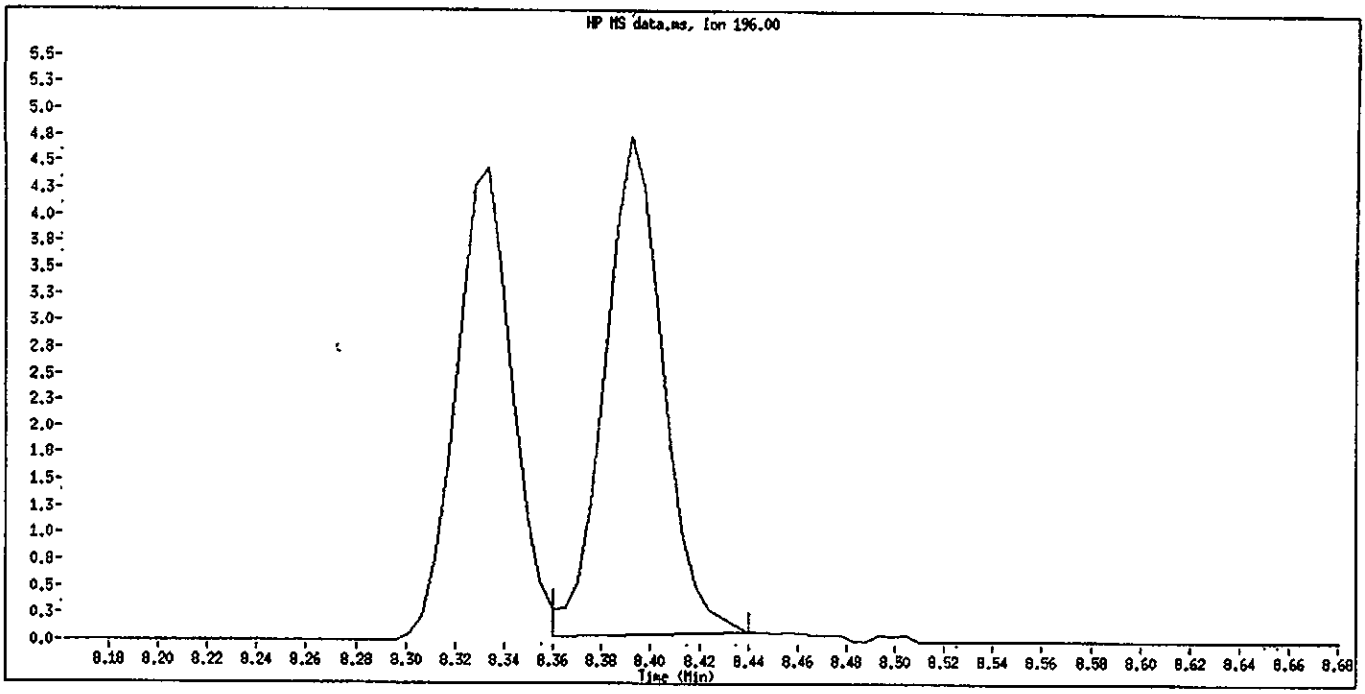


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824C01.D
Inj. Date and Time 24-AUG-2000 16:04
Instrument ID: 71.i
Client ID: SSTD20
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 08/25/2000



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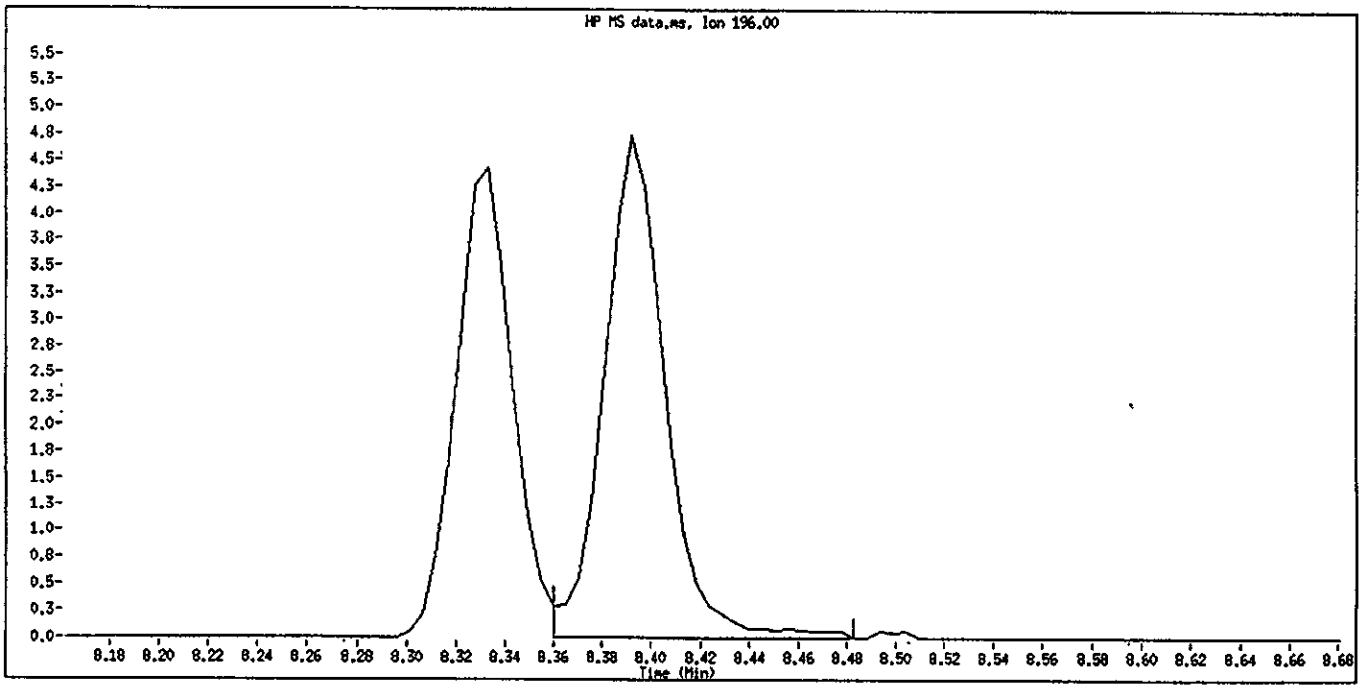
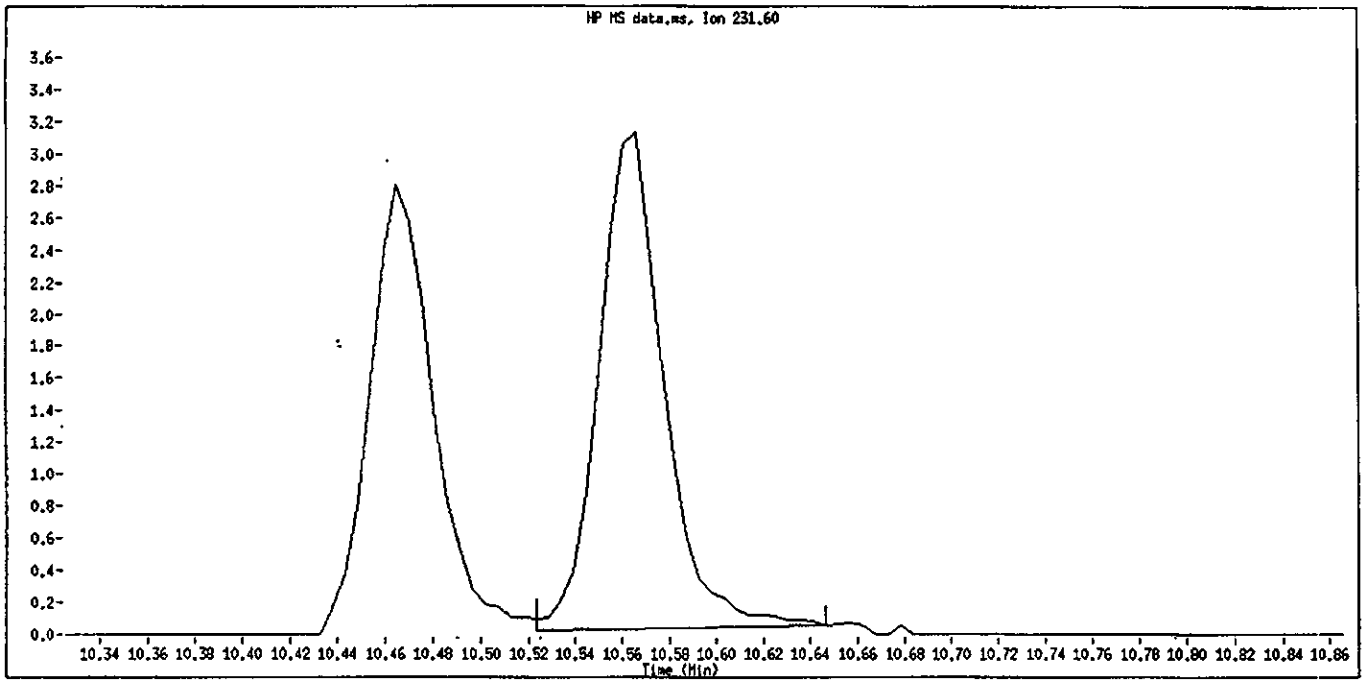


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824C01.D
Inj. Date and Time: 24-AUG-2000 16 04
Instrument ID: 71 1
Client ID SSTD20
Compound Name: 2,3,4,6-Tetrachlorophenol
CAS # 58-90-2
Report Date: 08/25/2000



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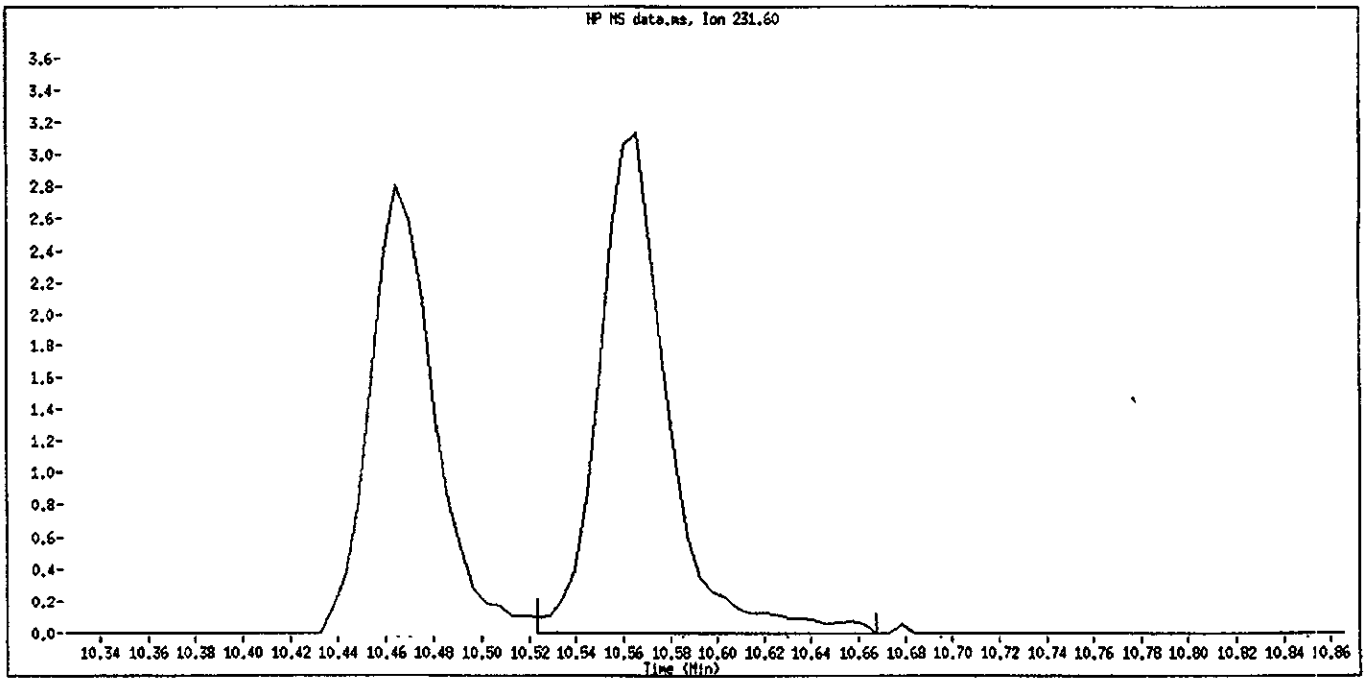
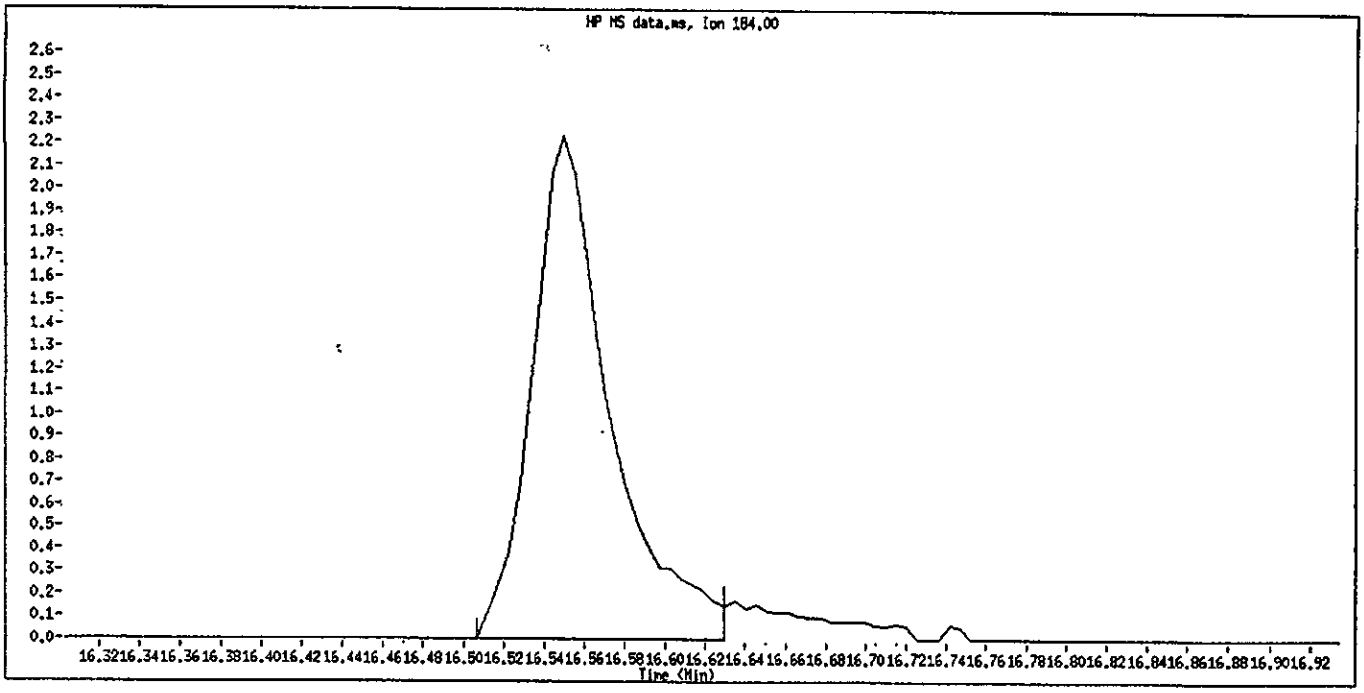


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason Poor Chromatography

Data File Name S0824C01.D
Inj Date and Time 24-AUG-2000 16:04
Instrument ID: 71.1
Client ID: SSTD20
Compound Name: Benzidine
CAS #: 92-87-5
Report Date: 08/25/2000



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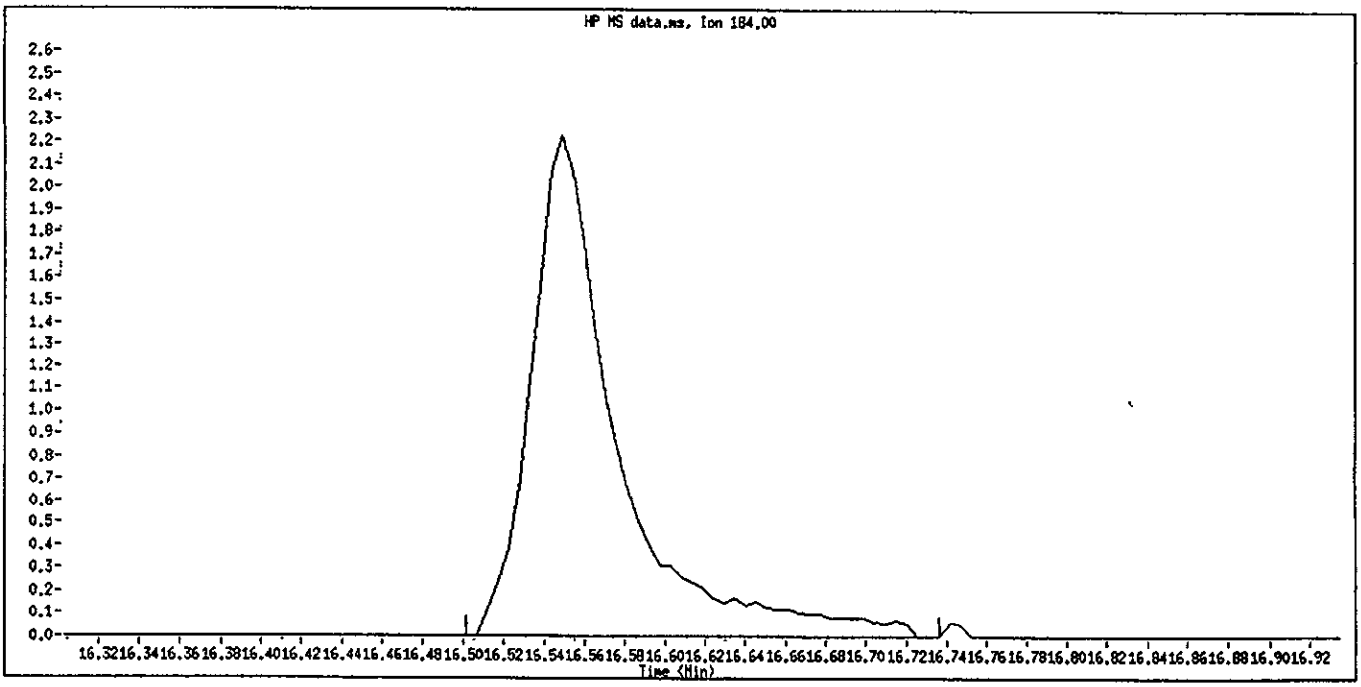
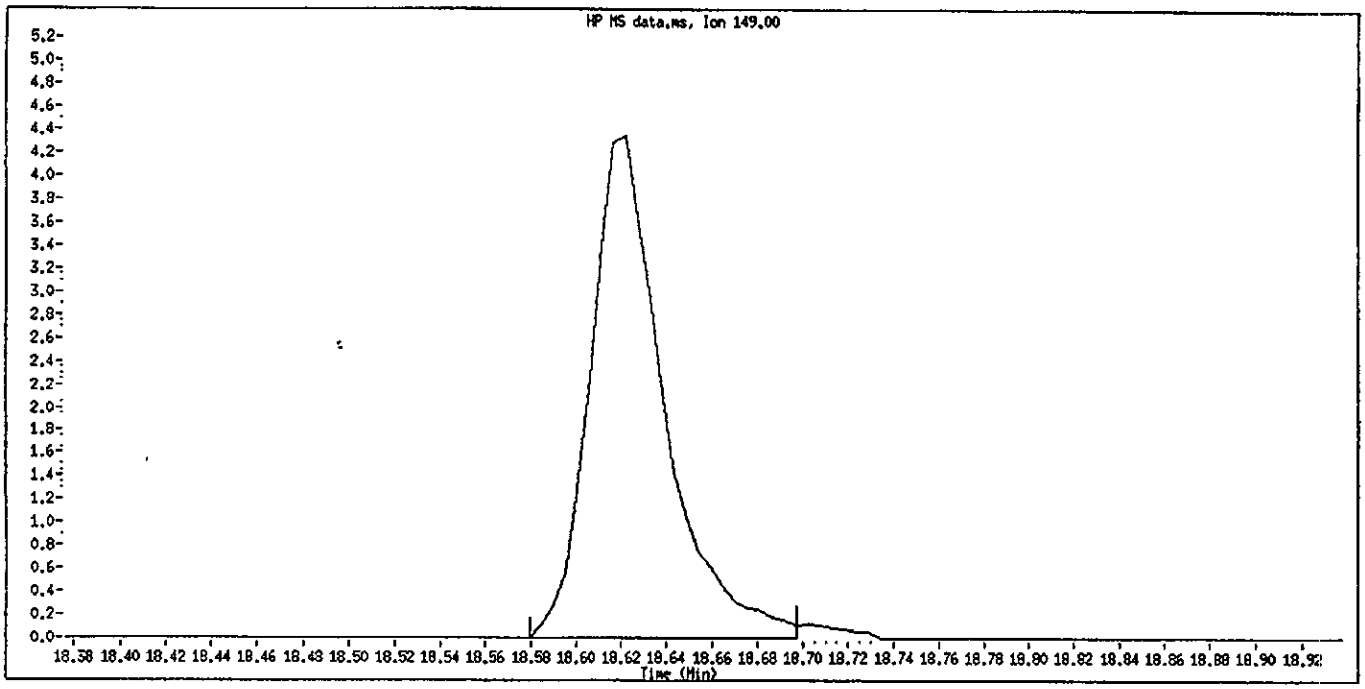


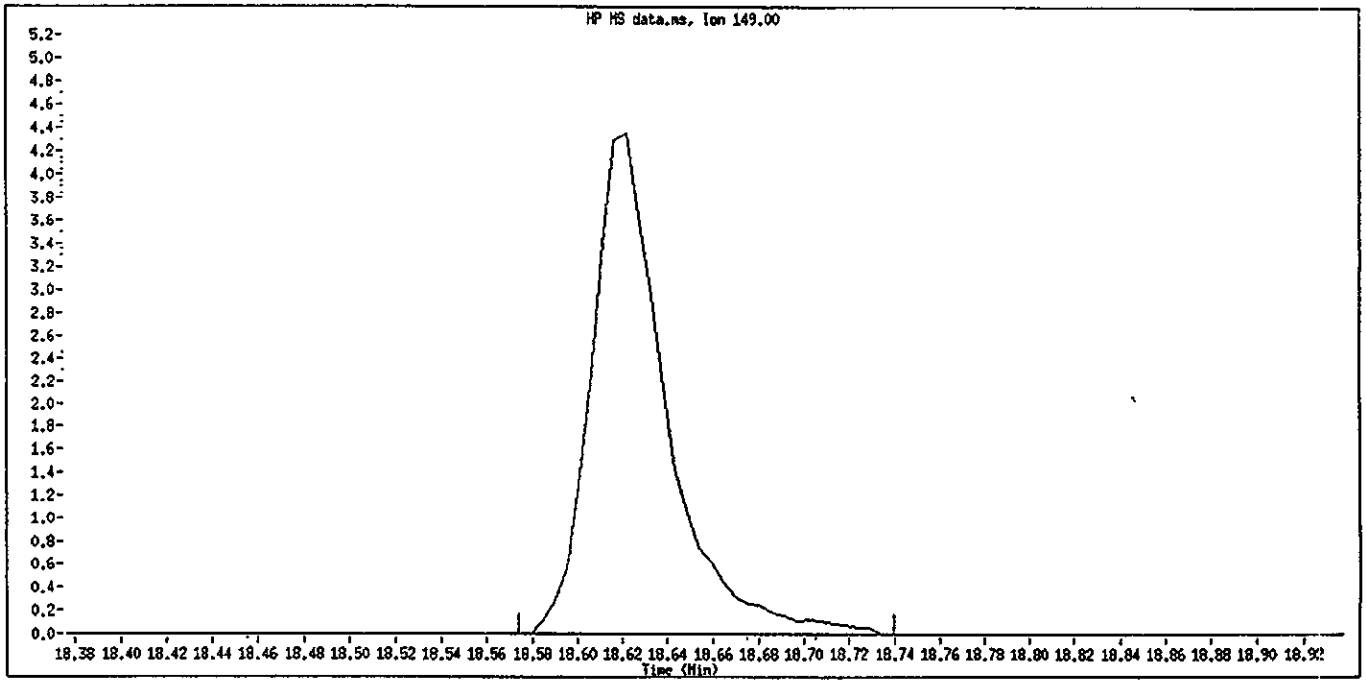
Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824C01 D
Inj. Date and Time: 24-AUG-2000 16:04
Instrument ID: 71 1
Client ID. SSTD20
Compound Name. Butylbenzylphthalate
CAS # 85-68-7
Report Date: 08/25/2000



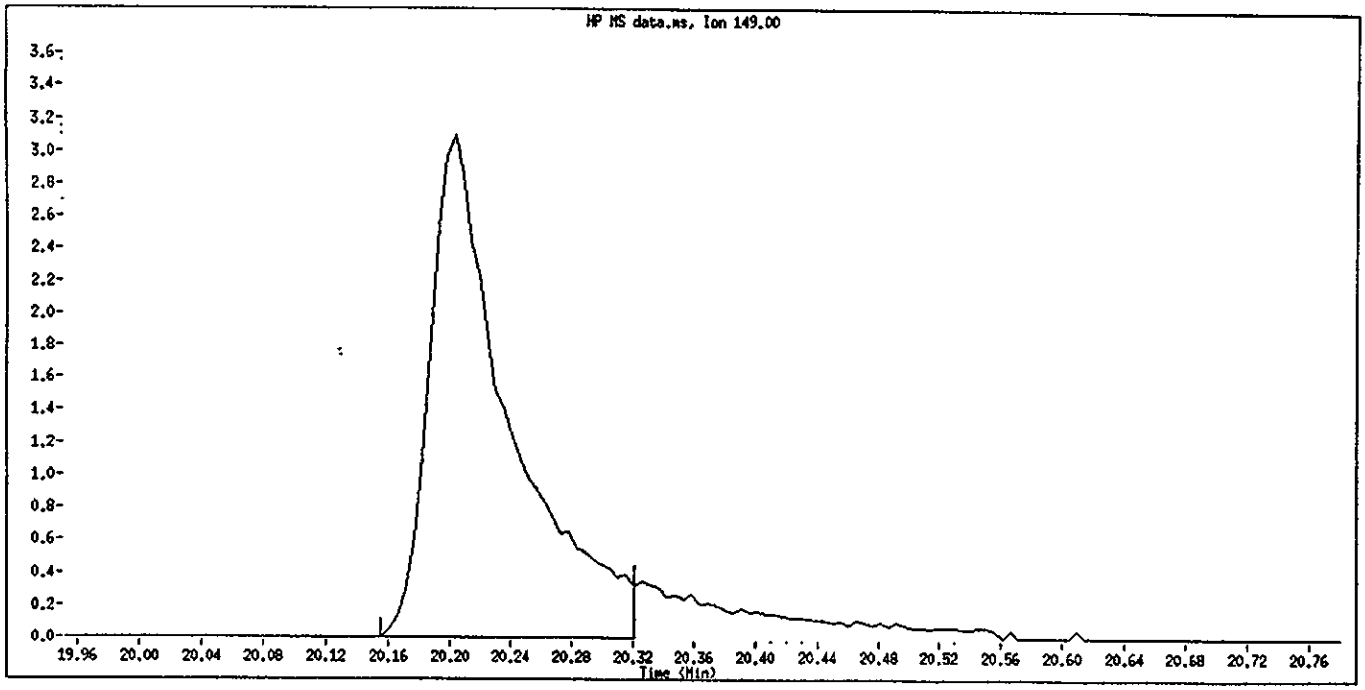
Original Integration



Manual Integration

Manually Integrated By BachaS
Manual Integration Reason: Poor Chromatography

Data File Name. S0824C01.D
Inj. Date and Time. 24-AUG-2000 16 04
Instrument ID: 71.i
Client ID. SSTD20
Compound Name: bis(2-ethylhexyl)Phthalate
CAS #: 117-81-7
Report Date: 08/25/2000



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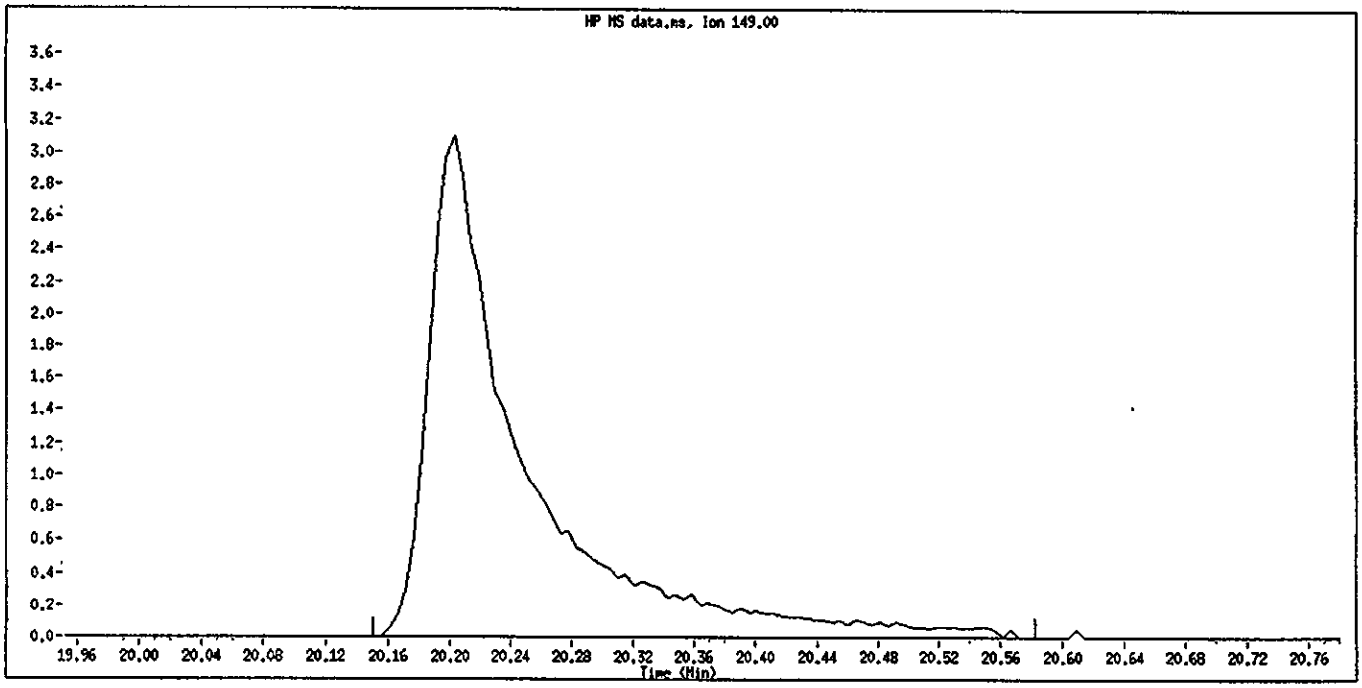
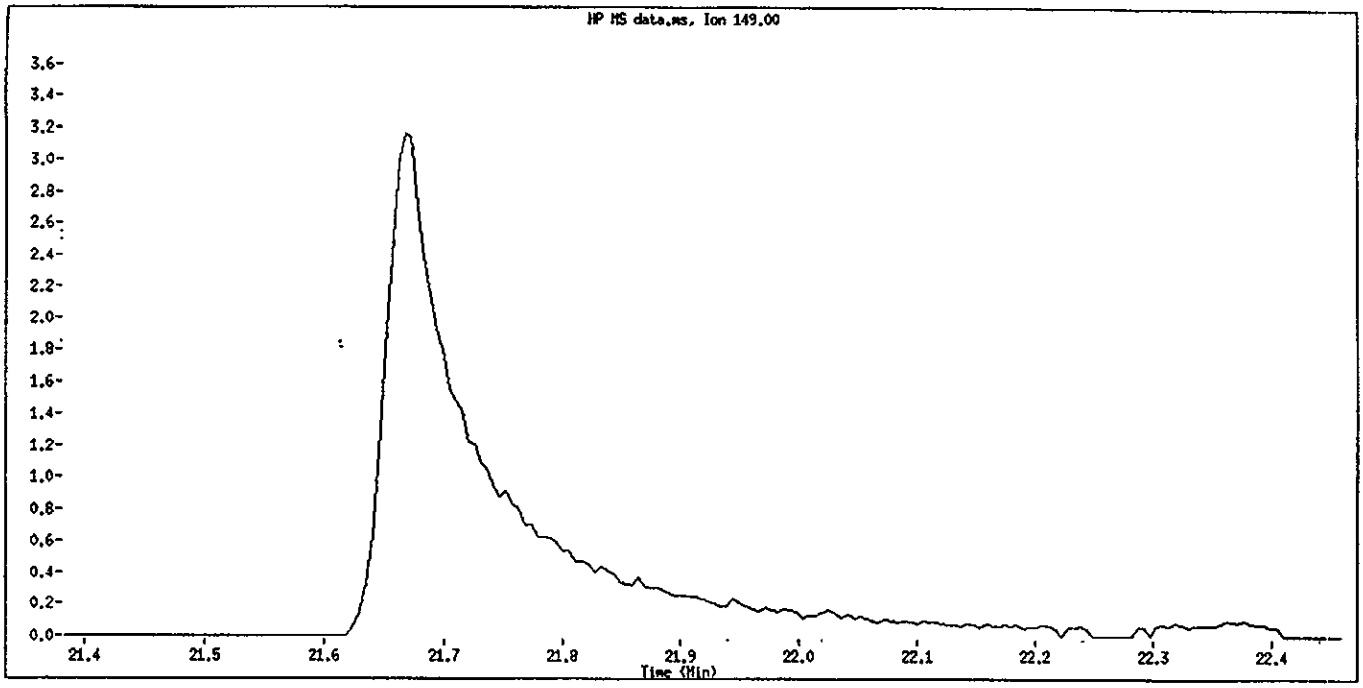


Manual Integration

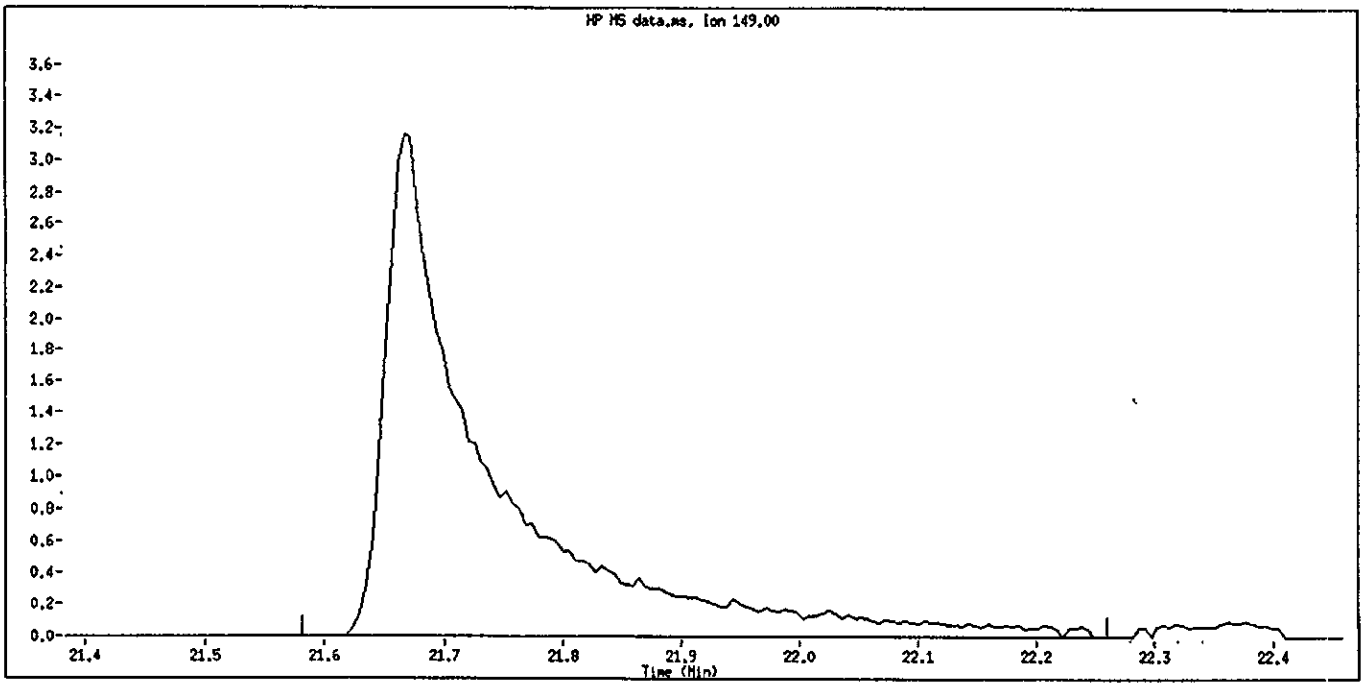
Manually Integrated By: BachaS
Manual Integration Reason Poor Chromatography

b/U 226

Data File Name. S0824C01.D
Inj Date and Time: 24-AUG-2000 16 04
Instrument ID: 71.i
Client ID· SSTD20
Compound Name: Di-n-octylphthalate
CAS # 117-84-0
Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason. Poor Chromatography

Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824CCC.D

Date : 24-AUG-2000 15:30

Client ID: SSTD50

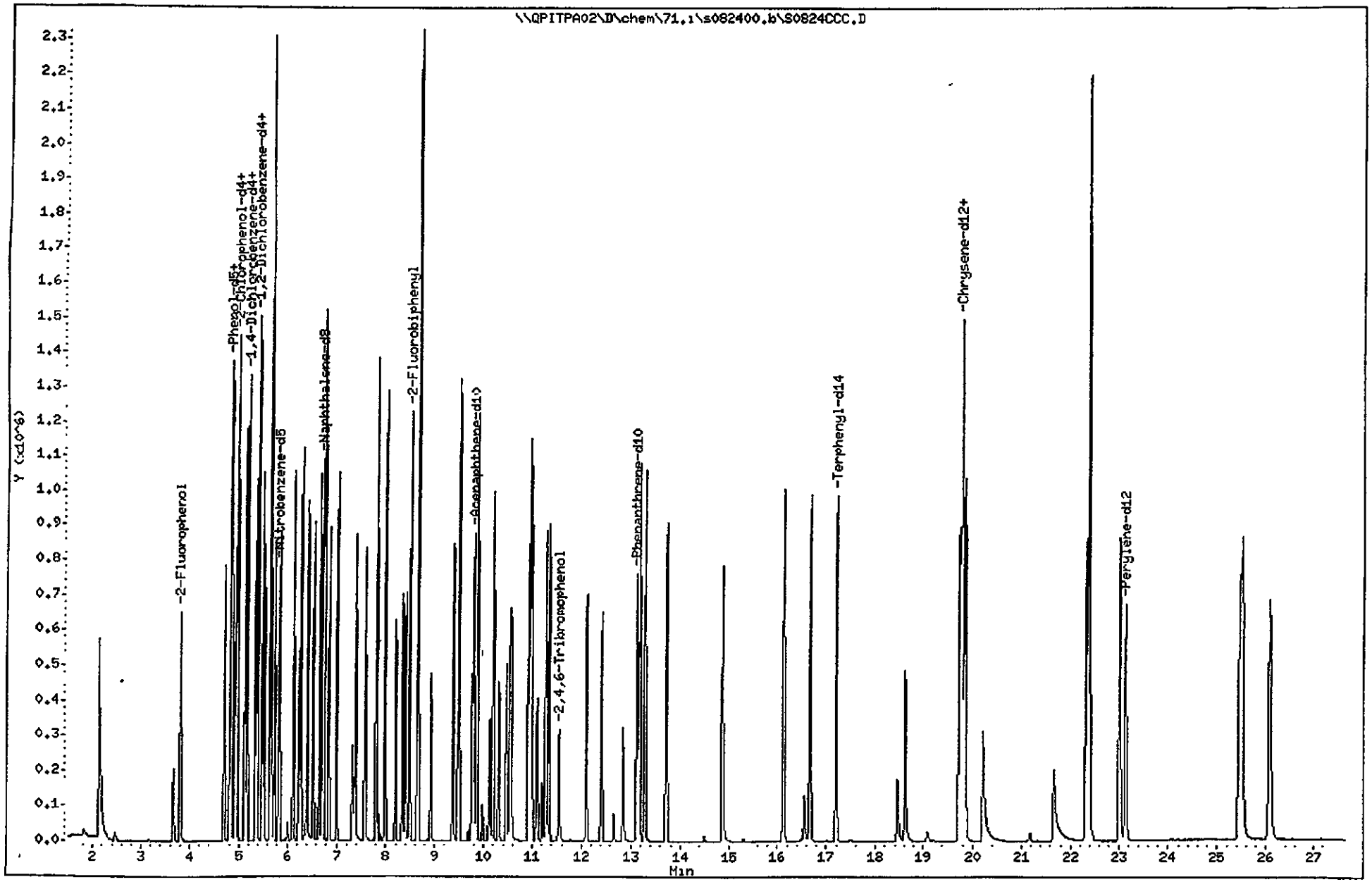
Sample Info: sstd50(25 ug/ml) 194-183-13 8270/clp

Column phase: Hp5-MS

Instrument: 71.i

Operator: 045183

Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824CCC.D
Lab Smp Id: sstd50 Client Smp ID: SSTD50
Inj Date : 24-AUG-2000 15:30
Operator : 045183 Inst ID: 71.i
Smp Info : sstd50(25 ug/ml) 194-183-13 8270/clp
Misc Info : sstd50,s082400.b,8270clp.m,1-8270l.sub,1,2
Comment :
Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
Meth Date : 25-Aug-2000 10:00 bachas Quant Type: ISTD
Cal Date : 24-AUG-2000 15:30 Cal File: S0824CCC.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8270l.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	5.153	5.153	(1 000)	197135	40 0000	
* 2 Naphthalene-d8	136	6.713	6.713	(1 000)	716872	40.0000	
* 3 Acenaphthene-d10	164	9.795	9.795	(1.000)	383278	40.0000	
* 4 Phenanthrene-d10	188	13.123	13.123	(1.000)	652627	40.0000	
* 5 Chrysene-d12	240	19.780	19.780	(1 000)	712357	40.0000	
* 6 Perylene-d12	264	23.145	23.145	(1.000)	607120	40.0000	
13 N-Nitrosodimethylamine	74	2.129	2 129	(0 413)	226788	50.0000	50 000(M)
10 Pyridine	79	2.135	2.135	(0.414)	374852	50.0000	50.000(M)
19 Methyl methanesulfonate	80	3 657	3 657	(0 710)	107717	50.0000	50 000
22 Aniline	93	4.848	4.848	(0.941)	456403	50.0000	50.000
23 Phenol	94	4.827	4 827	(0.937)	468378	50.0000	50.000
24 bis(2-Chloroethyl)ether	93	4.918	4.918	(0.954)	357427	50.0000	50.000
25 2-Chlorophenol	128	4.961	4.961	(0.963)	331674	50 0000	50.000
27 1,3-Dichlorobenzene	146	5 116	5.116	(0 993)	367002	50 0000	50.000
28 1,4-Dichlorobenzene	146	5 174	5.174	(1.004)	376763	50 0000	50.000
29 1,2-Dichlorobenzene	146	5.383	5.383	(1 045)	352952	50.0000	50.000
30 Benzyl Alcohol	108	5.335	5.335	(1.035)	227239	50.0000	50.000
31 2-Methylphenol	108	5.473	5.473	(1.062)	300009	50.0000	50.000
32 2,2'-oxybis(1-Chloropropane)	45	5 516	5.516	(1 070)	412339	50.0000	50.000
33 N-Nitroso-di-n-propylamine	70	5 676	5 676	(1.102)	237925	50.0000	50.000
35 4-Methylphenol	108	5.639	5 639	(1.094)	330379	50.0000	50.000
38 Hexachloroethane	117	5.735	5.735	(1.113)	134409	50.0000	50.000
39 Nitrobenzene	77	5.842	5.842	(0.870)	354225	50.0000	50.000
44 Isophorone	82	6 125	6.125	(0.912)	619787	50.0000	50.000
45 2-Nitrophenol	139	6.237	6.237	(0.929)	112527	50.0000	50.000
46 2,4-Dimethylphenol	107	6.275	6.275	(0.935)	305902	50.0000	50.000

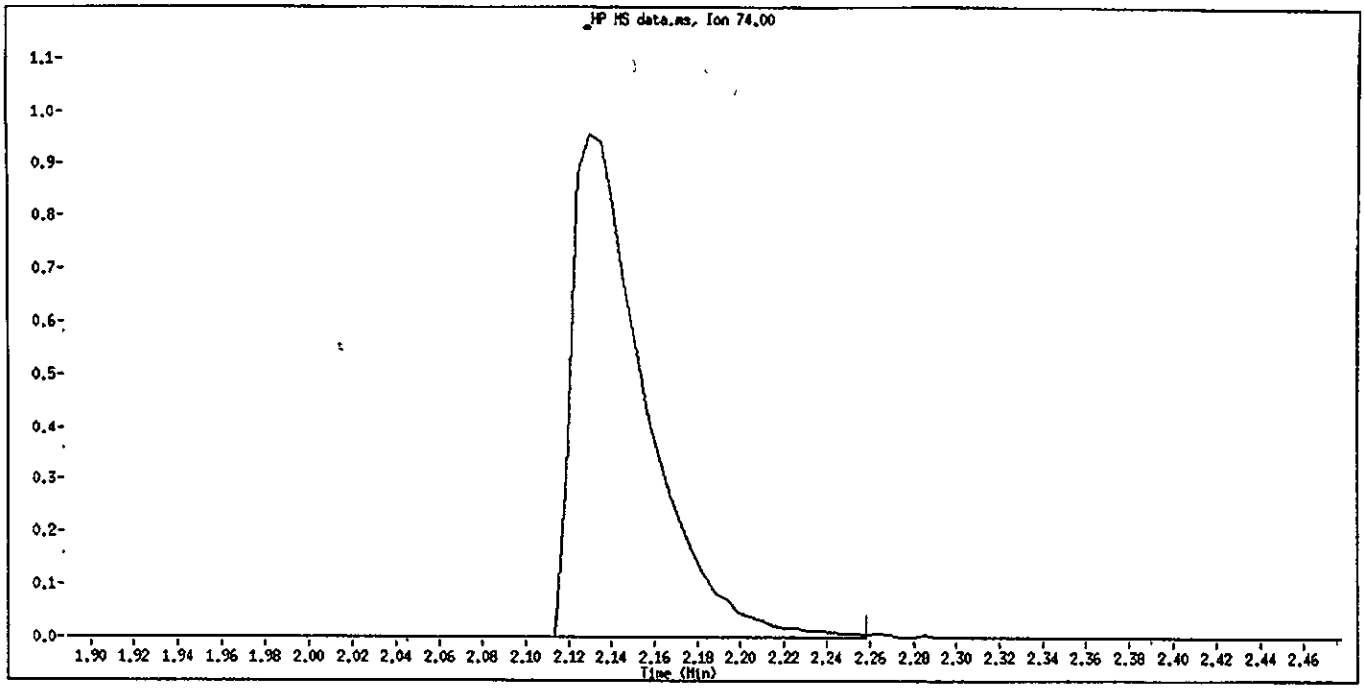
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.408	6.408	(0.955)	394237	50.0000	50.000
51 2,4-Dichlorophenol	162	6.531	6.531	(0 973)	251891	50.0000	50.000
52 Benzoic Acid	122	6.419	6.419	(0 956)	55091	50 0000	50.000 (M)
53 1,2,4-Trichlorobenzene	180	6.659	6.659	(0 992)	284584	50.0000	50.000
54 Naphthalene	128	6.740	6.740	(1.004)	1007017	50.0000	50.000
55 4-Chloroaniline	127	6.841	6.841	(1.019)	381489	50.0000	50.000
59 Hexachlorobutadiene	225	7.001	7.001	(1.043)	173372	50.0000	50.000
62 4-Chloro-3-Methylphenol	107	7.573	7.573	(1.128)	259633	50.0000	50.000
65 2-Methylnaphthalene	142	7.797	7.797	(1.162)	635434	50.0000	50.000
66 1-Methylnaphthalene	142	7.979	7.979	(1.189)	597347	50 0000	50.000
67 Hexachlorocyclopentadiene	237	8.193	8.193	(0.836)	141871	50.0000	50.000
69 2,4,6-Trichlorophenol	196	8.331	8.331	(0.851)	162828	50.0000	50.000
70 2,4,5-Trichlorophenol	196	8.396	8.396	(0.857)	187178	50.0000	50.000 (M)
73 2-Chloronaphthalene	162	8.652	8.652	(0.883)	581912	50.0000	50.000
77 2-Nitroaniline	65	8.914	8.914	(0.910)	136591	50.0000	50.000
80 Dimethylphthalate	163	9.368	9.368	(0.956)	622634	50.0000	50.000
82 2,6-Dinitrotoluene	165	9.491	9.491	(0.969)	114609	50.0000	50.000
83 Acenaphthylene	152	9 475	9.475	(0 967)	906132	50.0000	50.000
85 3-Nitroaniline	138	9.758	9.758	(0.996)	143218	50.0000	50.000
86 Acenaphthene	153	9 859	9.859	(1.007)	575401	50.0000	50.000
87 2,4-Dinitrophenol	184	9 972	9.972	(1.018)	26618	50.0000	50.000
89 4-Nitrophenol	109	10.121	10.121	(1.033)	74565	50.0000	50.000
90 Dibenzofuran	168	10 196	10.196	(1.041)	790966	50.0000	50.000
91 2,4-Dinitrotoluene	165	10.313	10.313	(1.053)	148804	50 0000	50.000
95 2,3,5,6-Tetrachlorophenol	232	10.468	10.468	(1.069)	122931	50.0000	50.000
92 2,3,4,6-Tetrachlorophenol	232	10.570	10.570	(1.079)	144300	50 0000	50 000 (M)
96 2-Naphthylamine	143	10.543	10.543	(1.076)	373569	50.0000	50.000
97 Diethylphthalate	149	10.912	10.912	(1 114)	603786	50.0000	50.000
98 Fluorene	166	10.954	10.954	(1.118)	648917	50.0000	50.000
99 4-Chlorophenyl-phenylether	204	10.987	10.987	(1.122)	307482	50.0000	50.000
100 4-Nitroaniline	138	11.104	11.104	(1.134)	148120	50.0000	50.000
102 4,6-Dinitro-2-methylphenol	198	11.206	11 206	(0.854)	43138	50.0000	50.000
103 N-Nitrosodiphenylamine (1)	169	11.280	11.280	(0.860)	443143	50.0000	50 000
104 1,2-Diphenylhydrazine	77	11.339	11.339	(0 864)	690993	50.0000	50 000
112 4-Bromophenyl-phenylether	248	12.103	12.103	(0.922)	164131	50 0000	50.000
113 Hexachlorobenzene	284	12.413	12 413	(0.946)	179353	50.0000	50.000
117 Pentachlorophenol	266	12.846	12 846	(0.979)	83077	50.0000	50.000 (M)
122 Phenanthrene	178	13.177	13.177	(1.004)	870981	50.0000	50.000
123 Anthracene	178	13.284	13.284	(1.012)	890482	50.0000	50.000
126 Carbazole	167	13.716	13.716	(1.045)	830457	50.0000	50.000
130 Di-n-Butylphthalate	149	14.870	14.870	(1 133)	862822	50.0000	50.000
135 Fluoranthene	202	16.126	16.126	(1.229)	898172	50.0000	50 000
136 Benzidine	184	16.548	16 548	(0.837)	167519	50 0000	50.000 (M)
137 Pyrene	202	16 671	16.671	(0 843)	924793	50 0000	50.000
144 Butylbenzylphthalate	149	18.620	18.620	(0 941)	254636	50.0000	50.000
149 3,3'-Dichlorobenzidine	252	19.785	19.785	(1.000)	329975	50.0000	50.000
150 Benzo(a)Anthracene	228	19.737	19.737	(0.998)	872284	50.0000	50.000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
151 Chrysene	228	19.838	19 838	(1 003)	848268	50.0000	50.000
153 bis(2-ethylhexyl)Phthalate	149	20.202	20.202	(1.021)	364429	50.0000	50.000(M)
155 Di-n-octylphthalate	149	21.671	21 671	(0.936)	543125	50.0000	50.000(M)
157 Benzo(b)fluoranthene	252	22.328	22.328	(0 965)	835985	50.0000	50.000
158 Benzo(k)fluoranthene	252	22.381	22.381	(0.967)	1243290	50.0000	50.000
159 7,12-dimethylbenz(a)anthracen	256	22 387	22.387	(0.967)	509480	50 0000	50.000
167 Benzo(a)pyrene	252	23.022	23.022	(0 995)	842123	50.0000	50.000
169 Indeno(1,2,3-cd)pyrene	276	25.464	25.464	(1.100)	1113025	50.0000	50.000
170 Dibenz(a,h)anthracene	278	25.517	25.517	(1.102)	974398	50.0000	50.000
171 Benzo(g,h,i)perylene	276	26.083	26.083	(1.127)	929890	50.0000	50.000
$ 172 Nitrobenzene-d5	82	5.821	5.821	(0.867)	329447	50.0000	50.000
$ 173 2-Fluorobiphenyl	172	8.481	8.481	(0.866)	663189	50.0000	50.000
$ 174 Terphenyl-d14	244	17 199	17.199	(0.870)	699422	50.0000	50.000
$ 175 Phenol-d5	99	4 816	4.816	(0.935)	415159	50.0000	50.000
$ 176 2-Fluorophenol	112	3.807	3.807	(0.739)	327424	50.0000	50.000
$ 177 2,4,6-Tribromophenol	330	11 542	11 542	(0.880)	67165	50.0000	50.000
$ 178 2-Chlorophenol-d4	132	4.945	4.945	(0.960)	298859	50.0000	50.000
$ 179 1,2-Dichlorobenzene-d4	152	5.367	5.367	(1.041)	232033	50.0000	50.000

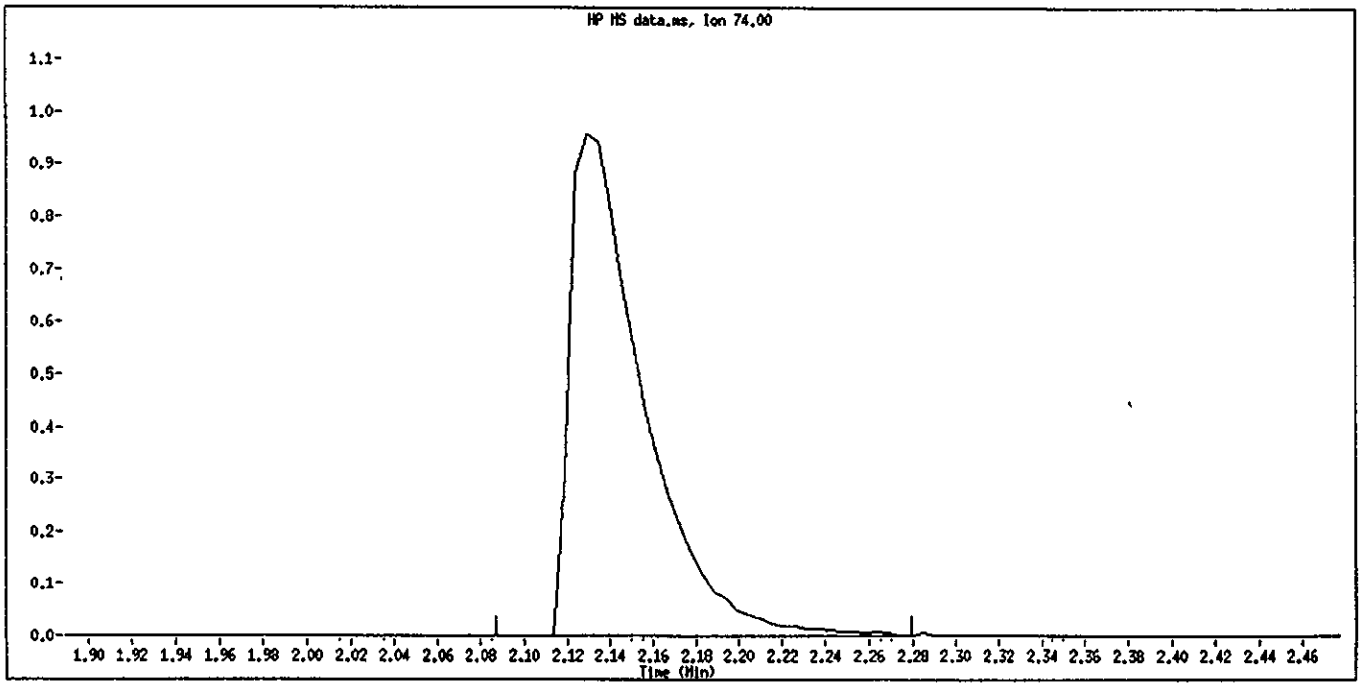
QC Flag Legend

M - Compound response manually integrated.

Data File Name: S0824CCC D
Inj. Date and Time: 24-AUG-2000 15:30
Instrument ID: 71.1
Client ID: SSTD50
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 08/25/2000



Original Integration

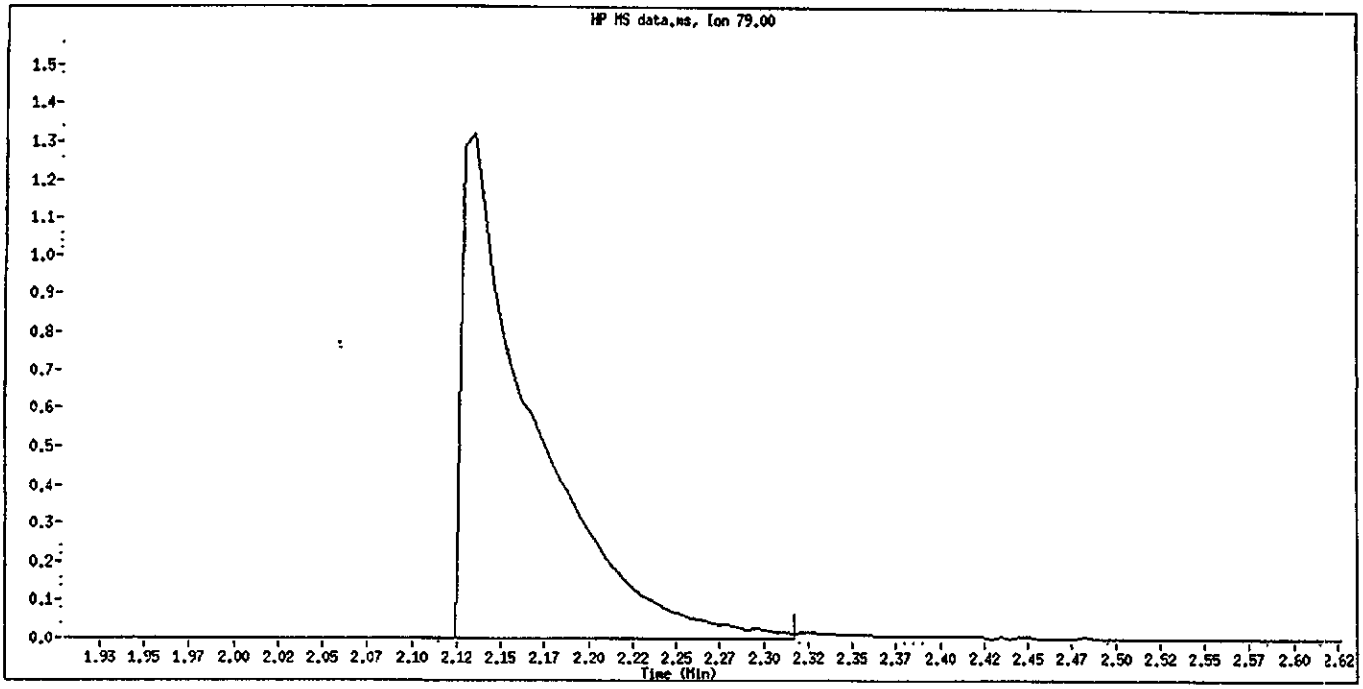


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

670 232

Data File Name S0824CCC.D
Inj Date and Time: 24-AUG-2000 15:30
Instrument ID: 71.i
Client ID: SSTD50
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 08/25/2000



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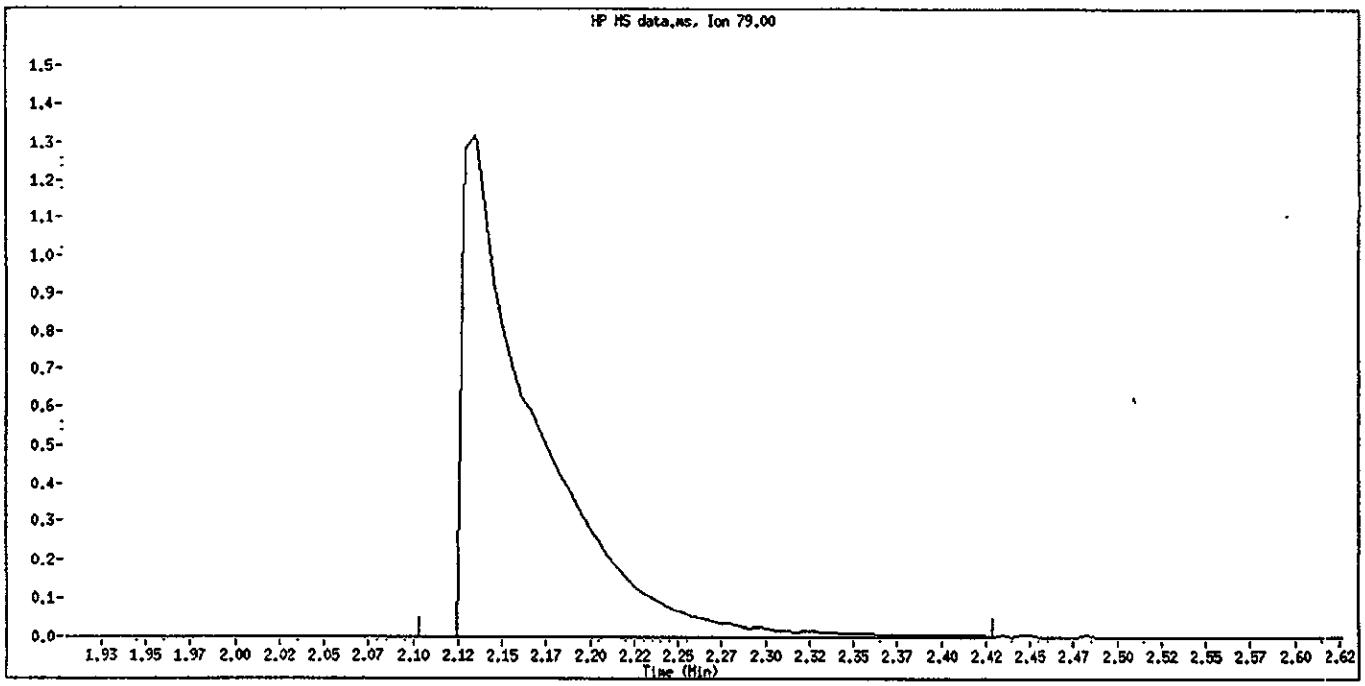
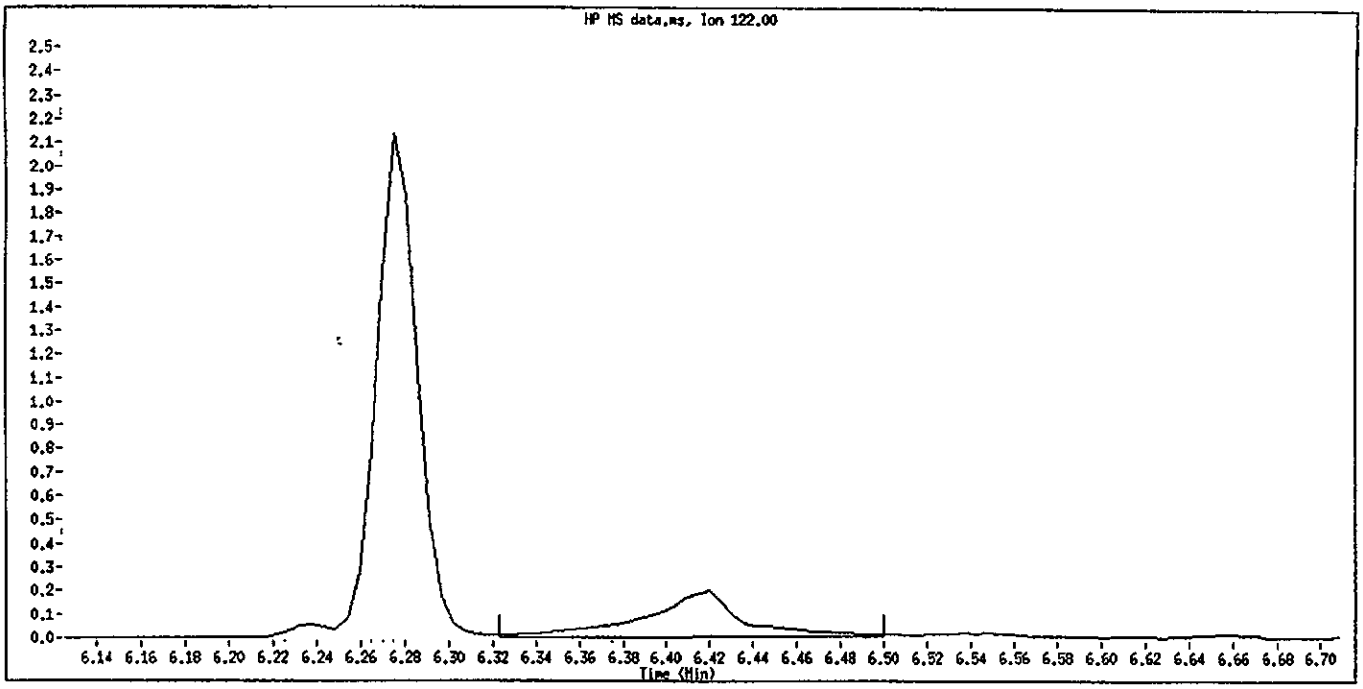


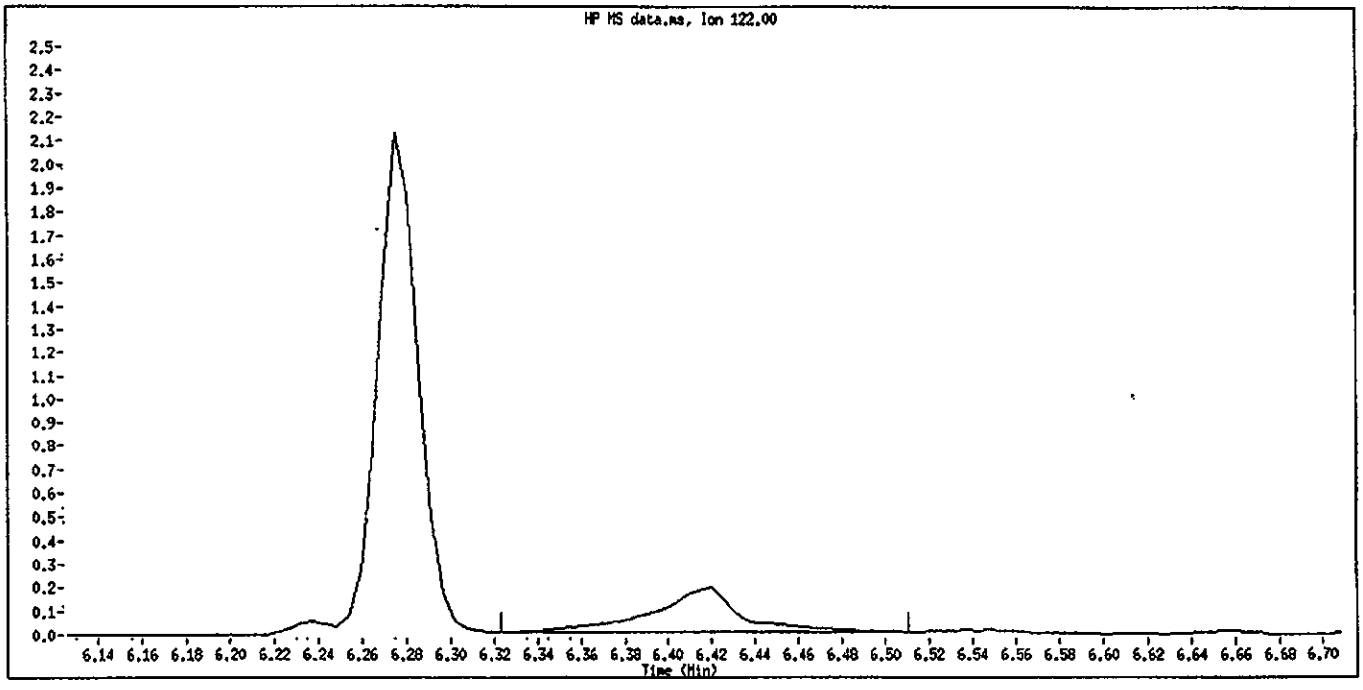
Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824CCC.D
Inj. Date and Time: 24-AUG-2000 15:30
Instrument ID. 71 i
Client ID: SSTD50
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date 08/25/2000



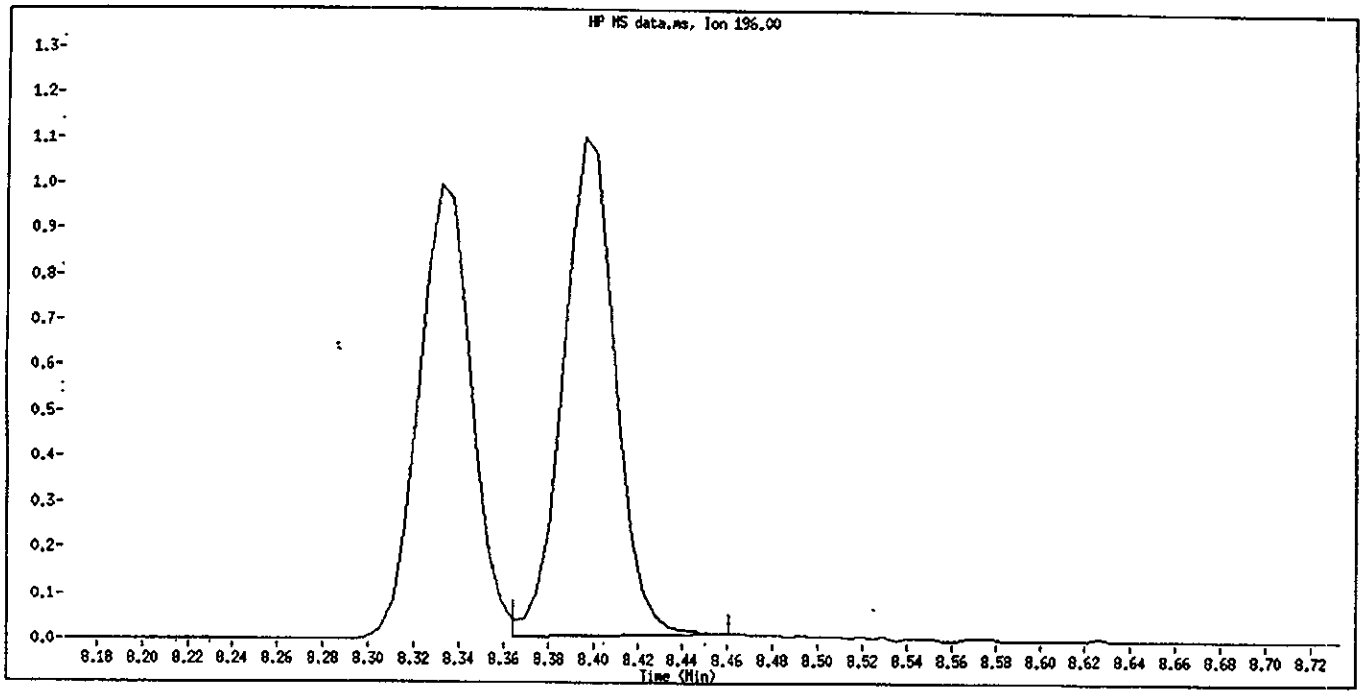
Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

Data File Name S0824CCC.D 670 234
Inj. Date and Time: 24-AUG-2000 15 30
Instrument ID. 71.i
Client ID: SSTD50
Compound Name: 2,4,5-Trichlorophenol
CAS # 95-95-4
Report Date: 08/25/2000



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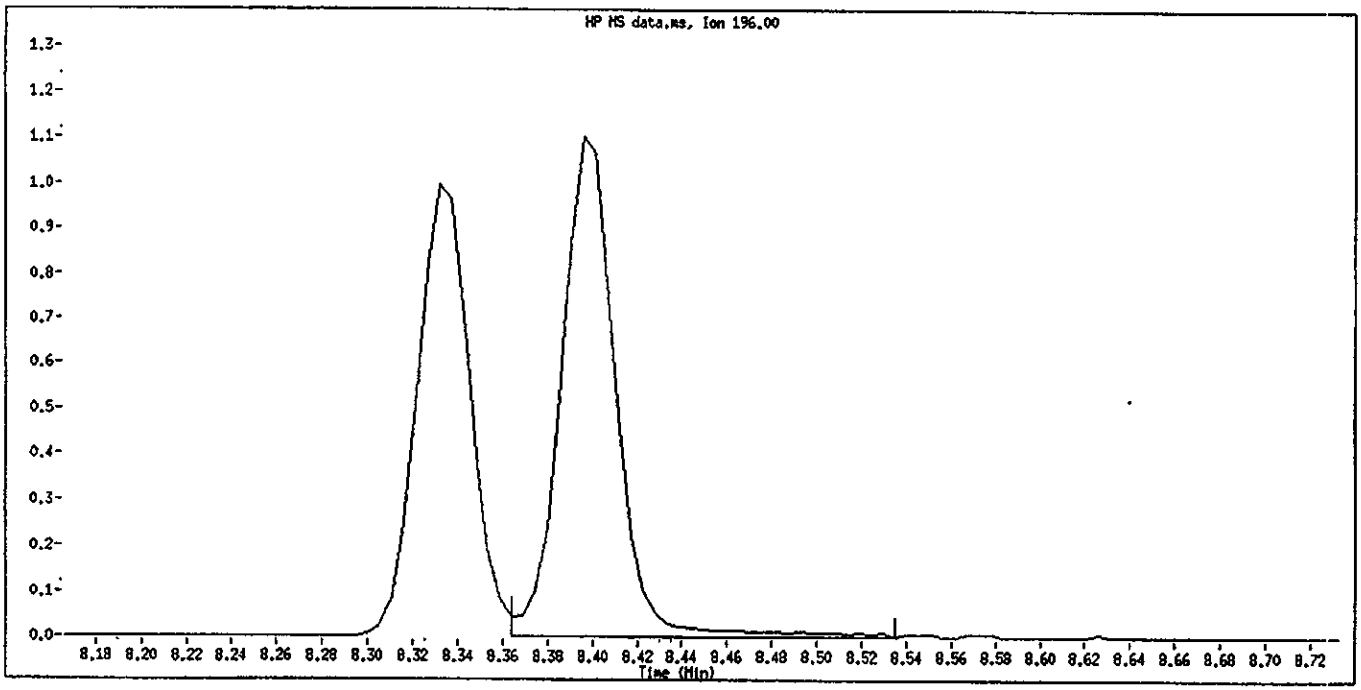

Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824CCC.D
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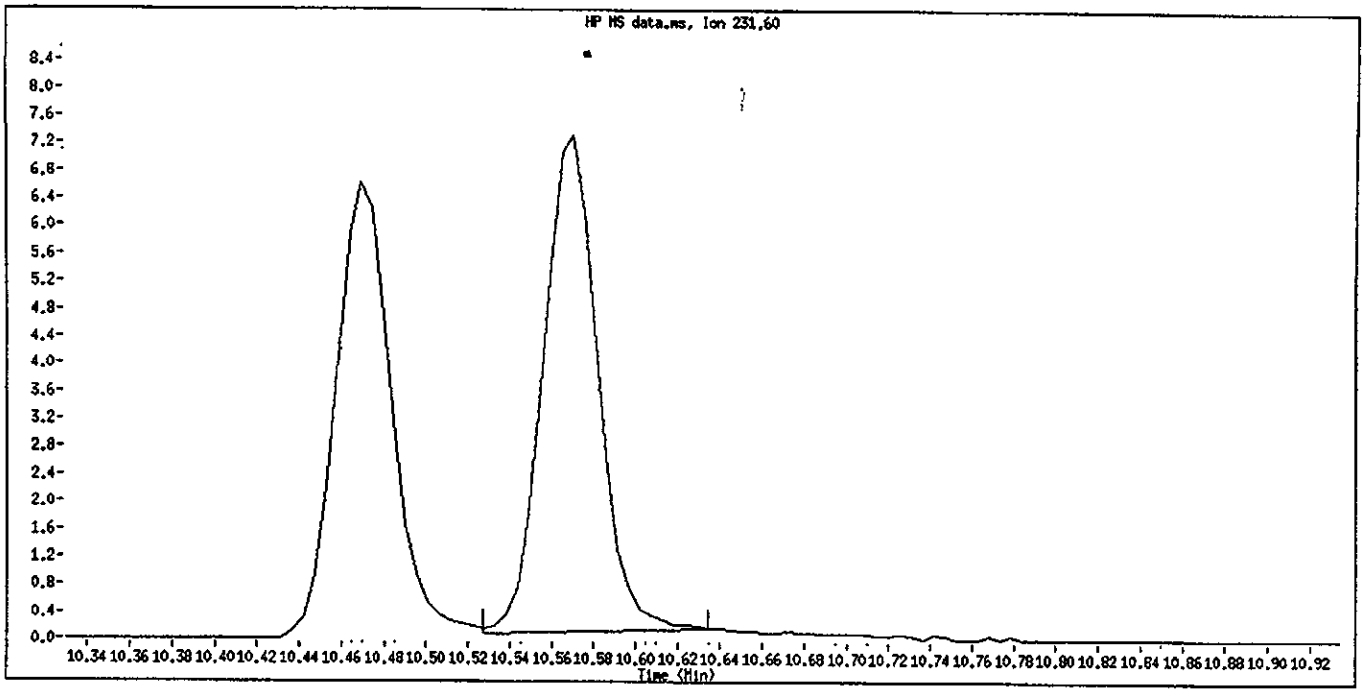
Instrument ID: 71.i
Client ID: SSTD50
Compound Name: 2,3,4,6-Tetrachlorophenol
CAS #: 58-90-2
Report Date. 08/25/2000



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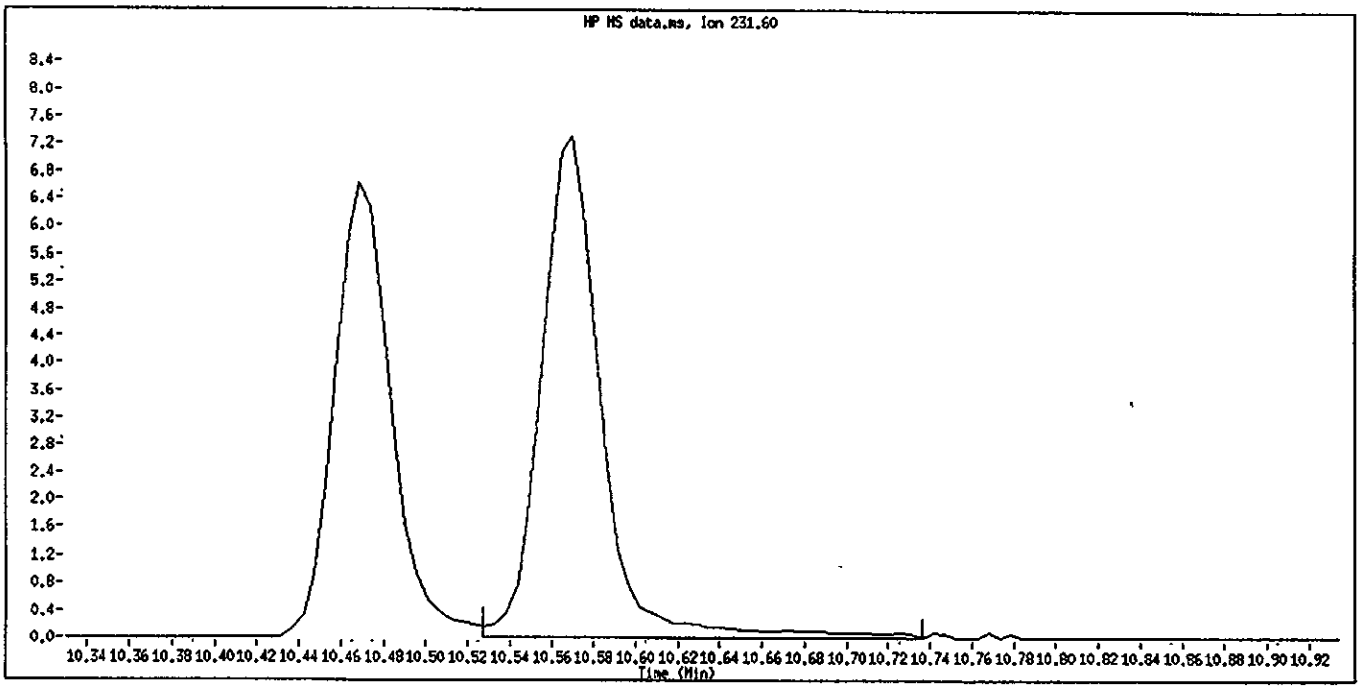
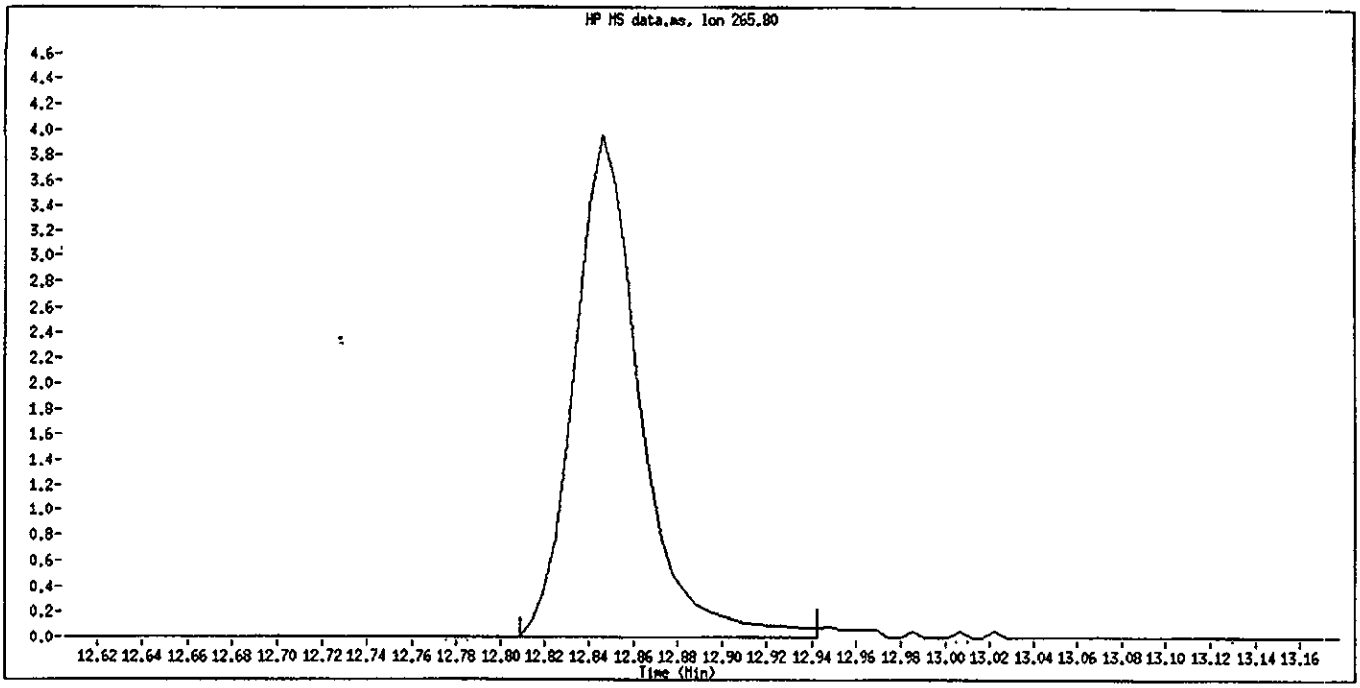


Manual Integration

Manually Integrated By· BachaS
Manual Integration Reason: Poor Chromatography

670 236

Data File Name: S0824CCC.D
Inj. Date and Time: 24-AUG-2000 15:30
Instrument ID: 71.i
Client ID: SSTD50
Compound Name: Pentachlorophenol
CAS #: 87-86-5
Report Date: 08/25/2000



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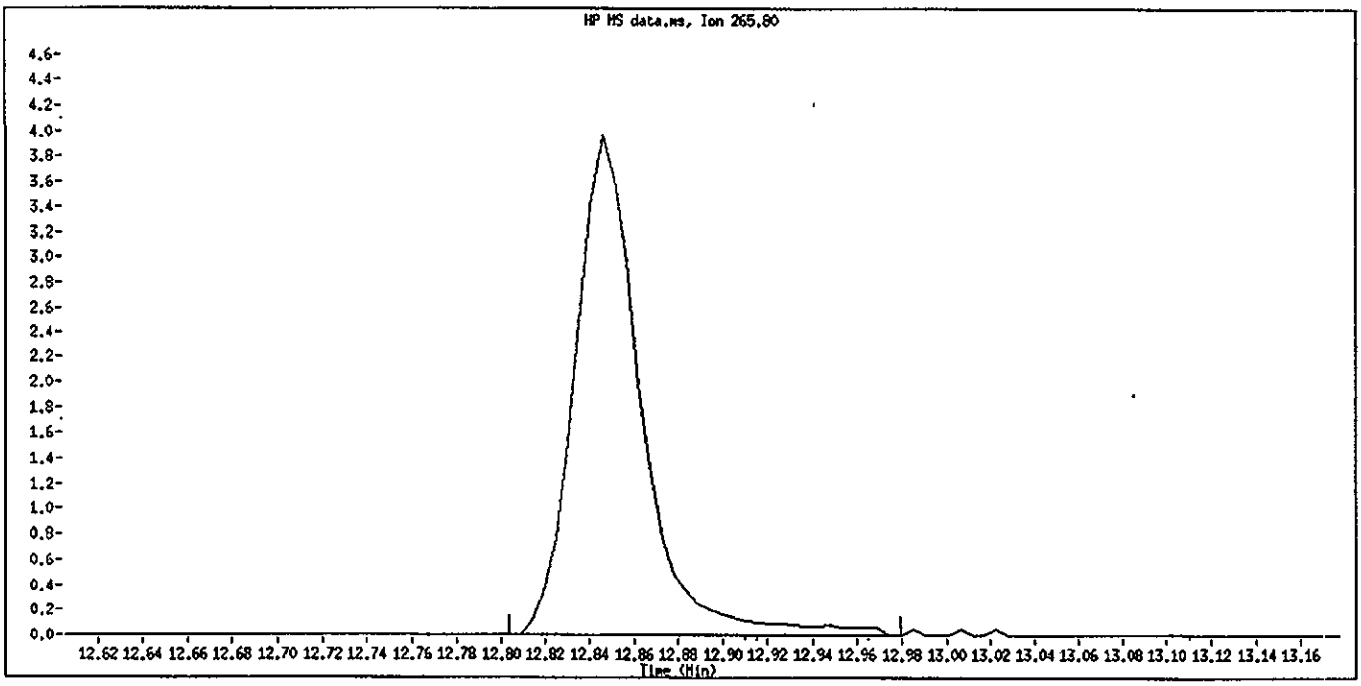
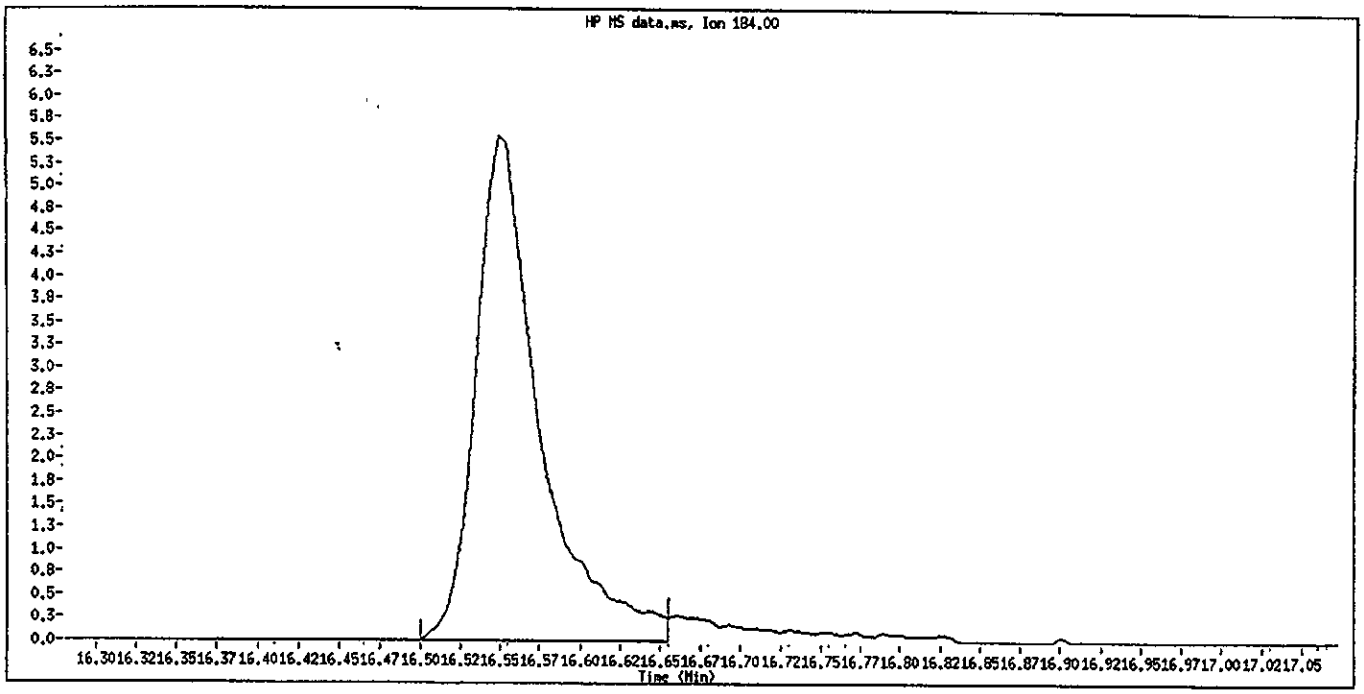


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824CCC.D
Inj. Date and Time 24-AUG-2000 15 30
Instrument ID: 71 i
Client ID: SSTD50
Compound Name: Benzidine
CAS #. 92-87-5
Report Date: 08/25/2000



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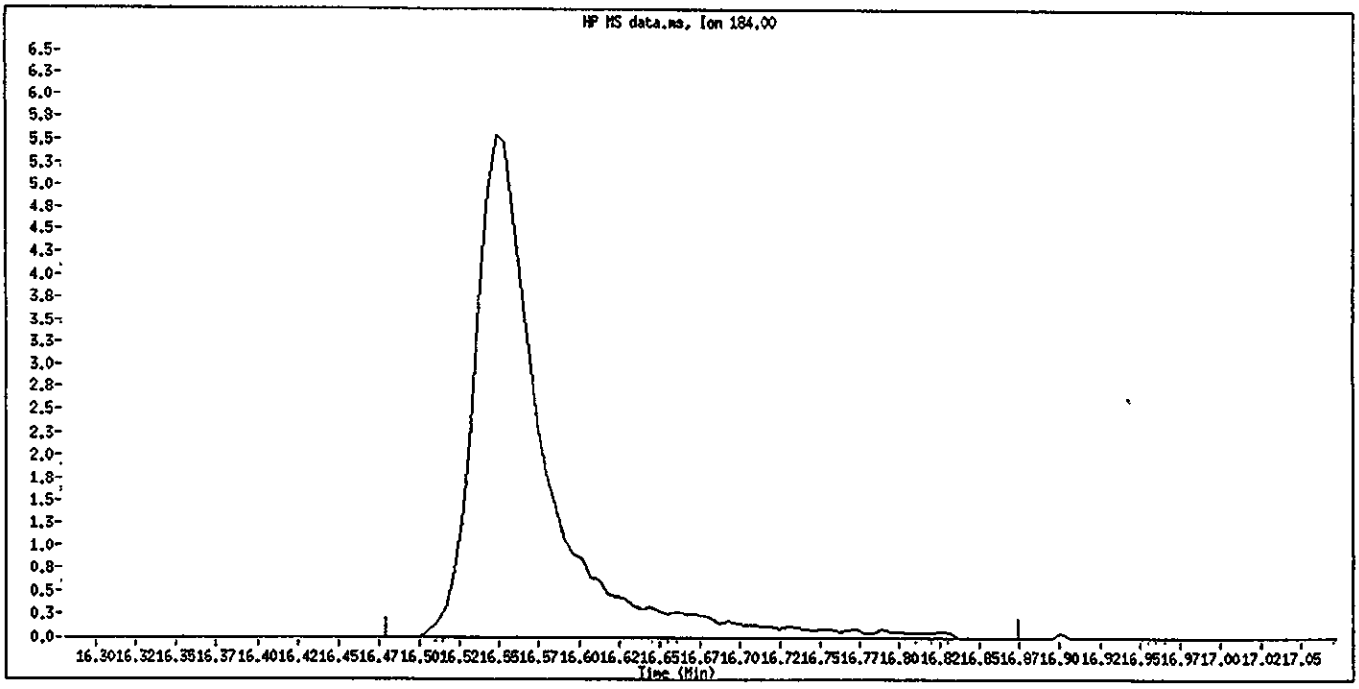
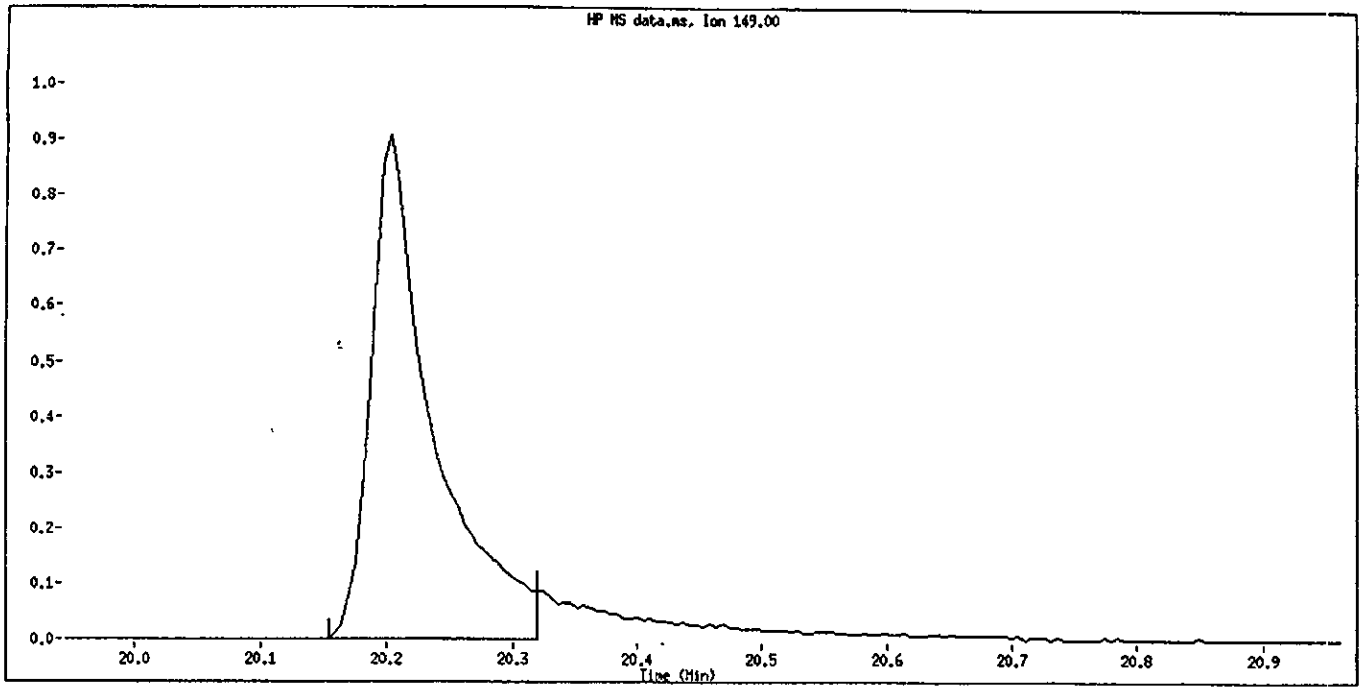


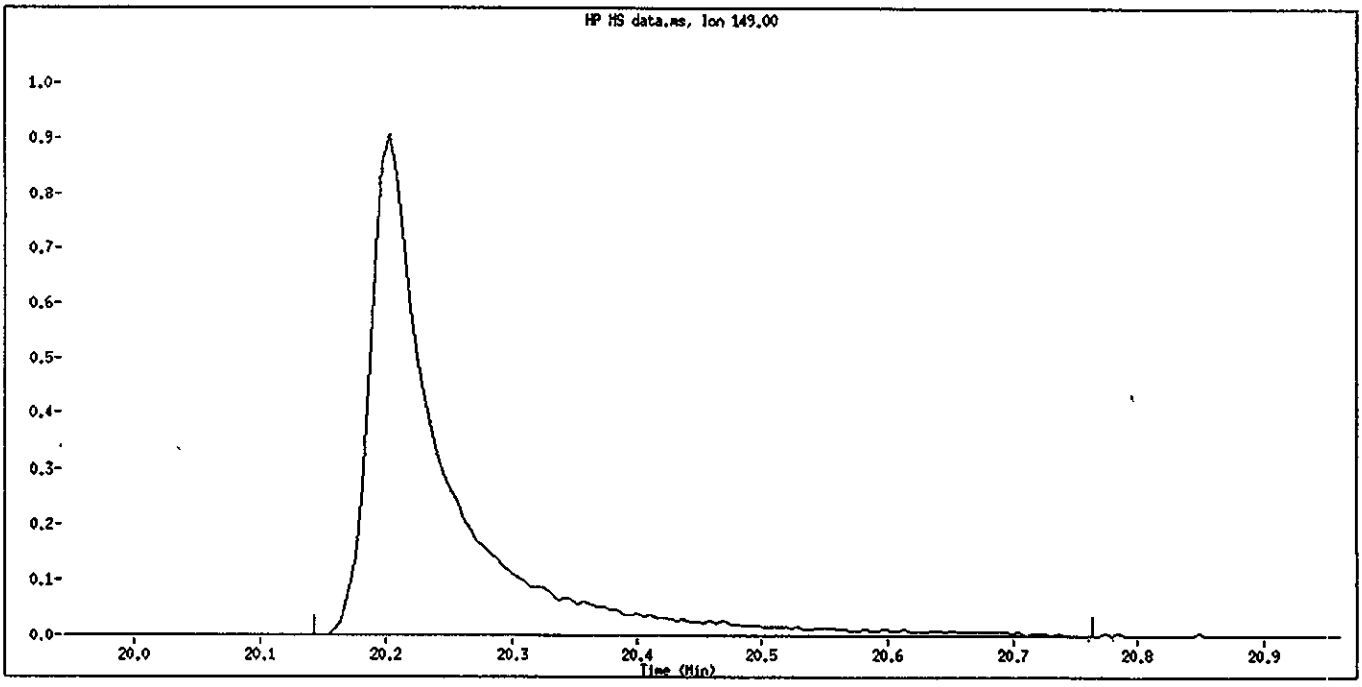
Manual Integration

Manually Integrated By BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824CCC.D
Inj. Date and Time: 24-AUG-2000 15:30
Instrument ID: 71 i
Client ID SSTD50
Compound Name: bis(2-ethylhexyl)Phthalate
CAS #: 117-81-7
Report Date: 08/25/2000



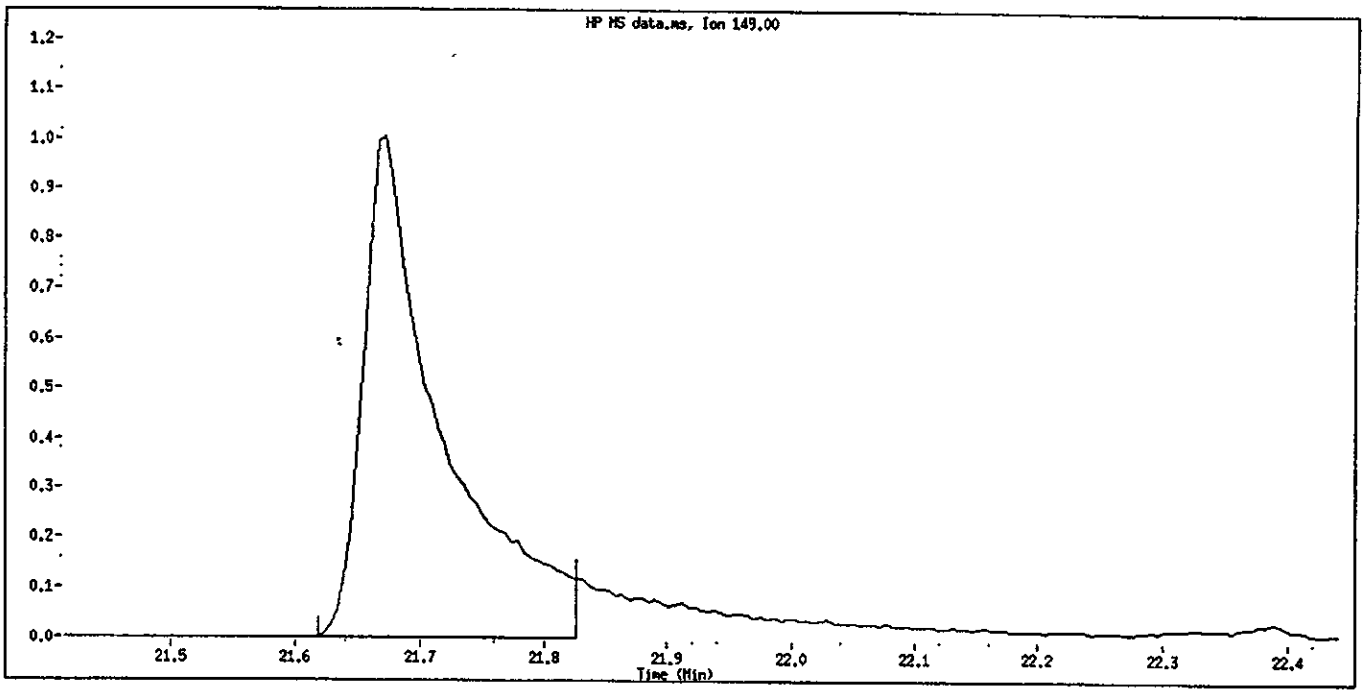
Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824CCC.D
Inj. Date and Time 24-AUG-2000 15:30
Instrument ID: 71.i
Client ID: SSTD50
Compound Name: Di-n-octylphthalate
CAS #: 117-84-0
Report Date: 08/25/2000



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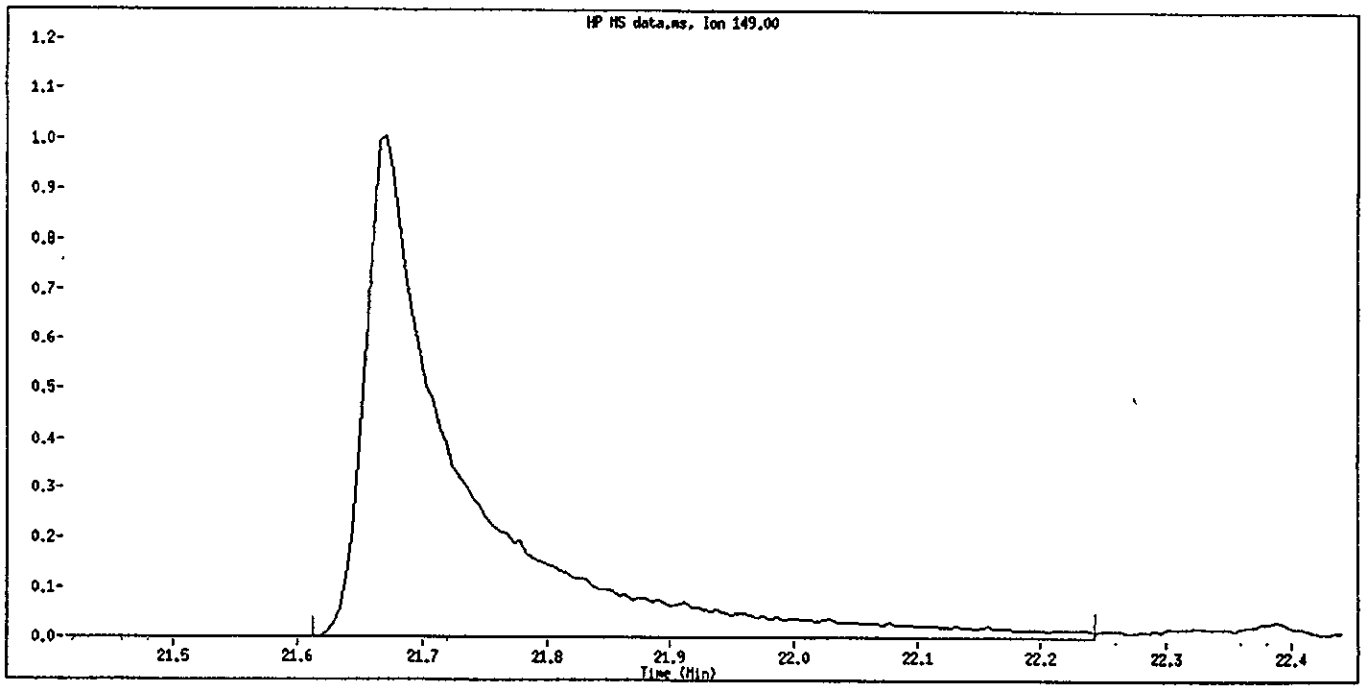
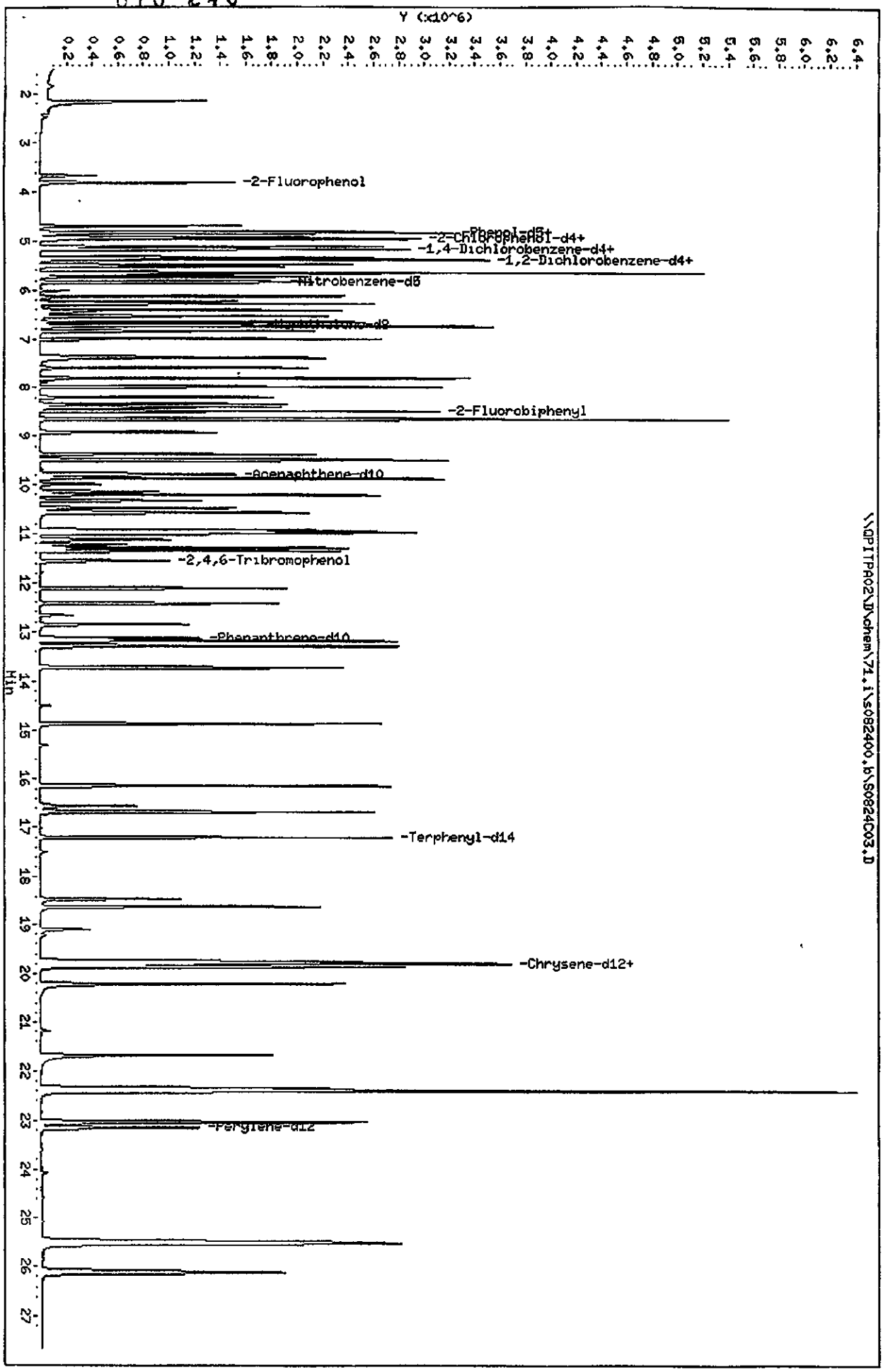


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

670 240



Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824C03.D
Date : 24-AUG-2000 16:38
Client ID: SSTD80
Sample Info: sstd80(40 ug/ml) 194-188-5 8270/clp

Instrument: 71.i
Operator: 045183
Column diameter: 0.25

Column phase: Hp5-MS

Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824C03.D
Report Date: 25-Aug-2000 10:03

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824C03.D
Lab Smp Id: sstd80 Client Smp ID: SSTD80
Inj Date : 24-AUG-2000 16:38
Operator : 045183 Inst ID: 71.i
Smp Info : sstd80(40 ug/ml) 194-188-5 8270/clp
Misc Info : sstd80,s082400.b,8270clp.m,1-82701.sub,1,3
Comment :
Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
Meth Date : 25-Aug-2000 10:02 bachas Quant Type: ISTD
Cal Date : 24-AUG-2000 16:38 Cal File: S0824C03.D
Als bottle: 97 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	5.158	5.158	(1.000)	321416	40.0000	
* 2 Naphthalene-d8	136	6.718	6.718	(1 000)	1178912	40.0000	
* 3 Acenaphthene-d10	164	9.800	9.800	(1.000)	665606	40.0000	
* 4 Phenanthrene-d10	188	13.134	13.134	(1.000)	1153929	40.0000	
* 5 Chrysene-d12	240	19.795	19.795	(1.000)	1295147	40.0000	
* 6 Perylene-d12	264	23.166	23.166	(1 000)	1106796	40.0000	
13 N-Nitrosodimethylamine	74	2.139	2.139	(0.415)	546797	80.0000	78.450(M)
10 Pyridine	79	2.134	2 134	(0.414)	904018	80.0000	77.357(M)
19 Methyl methanesulfonate	80	3.662	3.662	(0.710)	261923	80.0000	77.351
22 Aniline	93	4.853	4.853	(0.941)	1124107	80.0000	77.505
23 Phenol	94	4.837	4.837	(0.938)	1159962	80 0000	78.553
24 bis(2-Chloroethyl)ether	93	4.923	4.923	(0.954)	865373	80.0000	77 413
25 2-Chlorophenol	128	4.965	4.965	(0.963)	833632	80.0000	78.890
27 1,3-Dichlorobenzene	146	5.120	5 120	(0.993)	912536	80.0000	78.032
28 1,4-Dichlorobenzene	146	5.179	5.179	(1.004)	933911	80.0000	78.174
29 1,2-Dichlorobenzene	146	5.387	5 387	(1 045)	864185	80.0000	77.963
30 Benzyl Alcohol	108	5.339	5 339	(1.035)	595334	80.0000	80.686(M)
31 2-Methylphenol	108	5.484	5.484	(1.063)	763079	80.0000	79.334
32 2,2'-oxybis(1-Chloropropane)	45	5.521	5.521	(1.070)	993367	80 0000	76.994
33 N-Nitroso-di-n-propylamine	70	5.687	5 687	(1.103)	581683	80.0000	77.899
35 4-Methylphenol	108	5.644	5.644	(1.094)	813009	80.0000	78.453
38 Hexachloroethane	117	5.740	5.740	(1.113)	335684	80 0000	79.003
39 Nitrobenzene	77	5.852	5.852	(0 871)	870463	80.0000	78.061
44 Isophorone	82	6 130	6.130	(0.913)	1522726	80.0000	78.213
45 2-Nitrophenol	139	6.242	6.242	(0.929)	385689	80.0000	95.482
46 2,4-Dimethylphenol	107	6.285	6.285	(0 936)	795574	80.0000	80.462

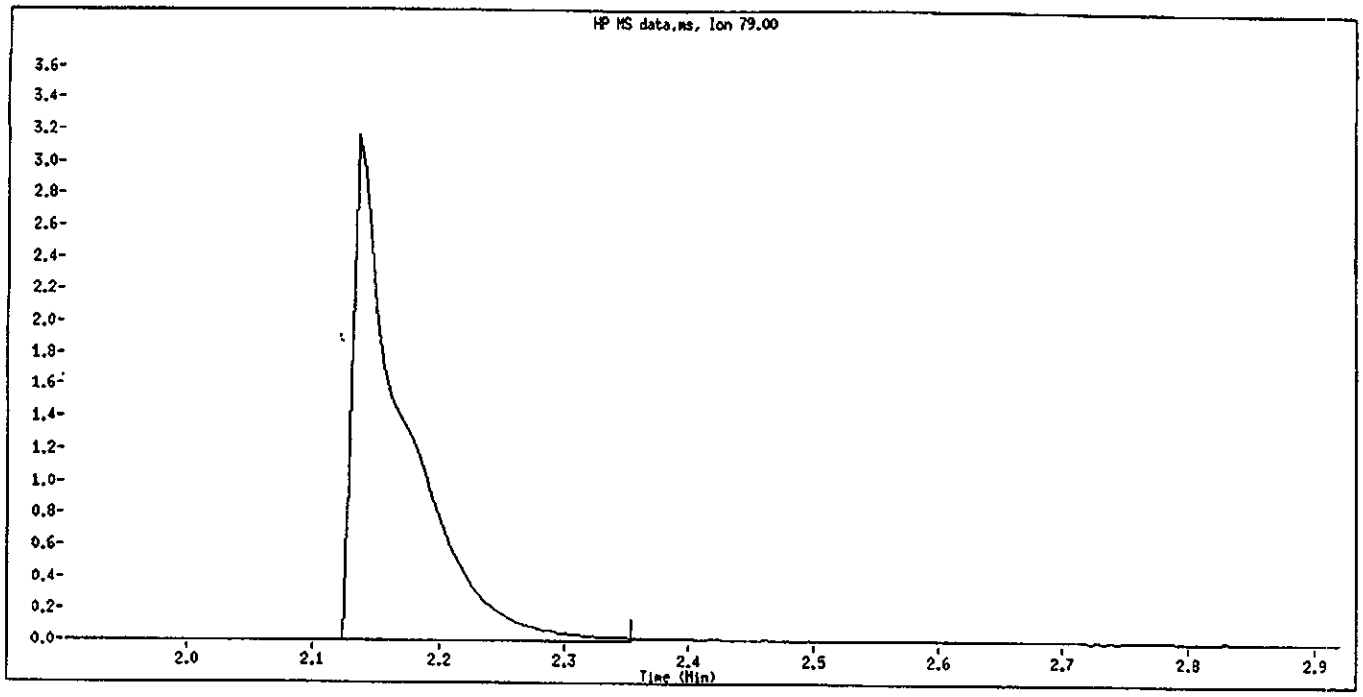
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6 419	6.419	(0.955)	974656	80.0000	78 521
51 2,4-Dichlorophenol	162	6.536	6.536	(0.973)	673765	80 0000	82.696
52 Benzoic Acid	122	6.461	6.461	(0.962)	298636	80.0000	118.68 (M)
53 1,2,4-Trichlorobenzene	180	6.664	6.664	(0 992)	742493	80.0000	80.951
54 Naphthalene	128	6.750	6.750	(1.005)	2417089	80.0000	76.324
55 4-Chloroaniline	127	6.851	6.851	(1.020)	990860	80.0000	80.845
59 Hexachlorobutadiene	225	7 006	7.006	(1.043)	454693	80 0000	82.220
62 4-Chloro-3-Methylphenol	107	7 583	7.583	(1.129)	707653	80.0000	84.142
65 2-Methylnaphthalene	142	7.802	7.802	(1.161)	1595724	80.0000	78.973
66 1-Methylnaphthalene	142	7.989	7.989	(1.189)	1516240	80.0000	79.497
67 Hexachlorocyclopentadiene	237	8.197	8.197	(0.836)	454682	80.0000	92.444
69 2,4,6-Trichlorophenol	196	8.342	8.342	(0.851)	469461	80.0000	84.907
70 2,4,5-Trichlorophenol	196	8.411	8.411	(0.858)	526809	80.0000	83.366 (M)
73 2-Chloronaphthalene	162	8.662	8.662	(0 884)	1504070	80.0000	78.462
77 2-Nitroaniline	65	8.929	8.929	(0.911)	431593	80 0000	92.133
80 Dimethylphthalate	163	9.378	9 378	(0.957)	1691985	80.0000	80.797
82 2,6-Dinitrotoluene	165	9.506	9 506	(0.970)	356769	80.0000	91.399
83 Acenaphthylene	152	9.480	9.480	(0.967)	2380305	80.0000	79.326
85 3-Nitroaniline	138	9.773	9 773	(0.997)	437413	80.0000	88.887
86 Acenaphthene	153	9.870	9.870	(1.007)	1515602	80.0000	79 006
87 2,4-Dinitrophenol	184	9 987	9.987	(1.019)	125895	80.0000	122.14
89 4-Nitrophenol	109	10.137	10.137	(1.034)	215888	80.0000	87.468
90 Dibenzofuran	168	10.206	10.206	(1.041)	2120644	80 0000	79.499
91 2,4-Dinitrotoluene	165	10.329	10.329	(1.054)	466355	80.0000	92.753
95 2,3,5,6-Tetrachlorophenol	232	10.479	10.479	(1 069)	393043	80 0000	91 180
92 2,3,4,6-Tetrachlorophenol	232	10.580	10.580	(1.080)	431532	80.0000	86.894 (M)
96 2-Naphthylamine	143	10.559	10.559	(1.077)	942395	80.0000	72.707
97 Diethylphthalate	149	10.927	10.927	(1 115)	1690511	80.0000	82 757
98 Fluorene	166	10.965	10.965	(1.119)	1760174	80.0000	81.205
99 4-Chlorophenyl-phenylether	204	10.997	10.997	(1.122)	855677	80 0000	82.449
100 4-Nitroaniline	138	11.130	11 130	(1.136)	432955	80.0000	86.955
102 4,6-Dinitro-2-methylphenol	198	11.226	11.226	(0.855)	198282	80 0000	118.83
103 N-Nitrosodiphenylamine (1)	169	11.291	11.291	(0.860)	1263183	80.0000	81 869
104 1,2-Diphenylhydrazine	77	11.355	11.355	(0 865)	1762296	80 0000	78.008
112 4-Bromophenyl-phenylether	248	12.113	12.113	(0 922)	478158	80 0000	85.032
113 Hexachlorobenzene	284	12.423	12.423	(0.946)	524399	80.0000	85.000
117 Pentachlorophenol	266	12.856	12.856	(0.979)	283178	80.0000	100.03 (M)
122 Phenanthrene	178	13.187	13.187	(1.004)	2357287	80 0000	80.094
123 Anthracene	178	13.299	13.299	(1.013)	2444747	80.0000	81.586
126 Carbazole	167	13.732	13.732	(1.046)	2269417	80.0000	81 691
130 Di-n-Butylphthalate	149	14.875	14.875	(1.133)	2629288	80.0000	88 616
135 Fluoranthene	202	16.141	16.141	(1.229)	2495514	80.0000	83.981
136 Benzidine	184	16.558	16.558	(0 836)	727309	80.0000	103.84
137 Pyrene	202	16.686	16.686	(0.843)	2578327	80.0000	77.416
144 Butylbenzylphthalate	149	18.631	18.631	(0 941)	1047318	80.0000	100.45
149 3,3'-Dichlorobenzidine	252	19.801	19.801	(1.000)	1095632	80.0000	91 451
150 Benzo(a)Anthracene	228	19.752	19.752	(0.998)	2521171	80.0000	81.401

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
151 Chrysene	228	19.865	19.865	(1.004)	2414109	80.0000	79.355
153 bis(2-ethylhexyl)Phthalate	149	20.207	20.207	(1.021)	1471809	80.0000	101 49(M)
155 Di-n-octylphthalate	149	21.686	21.686	(0.936)	2339641	80.0000	107.45
157 Benzo(b)fluoranthene	252	22.349	22.349	(0.965)	2663139	80.0000	87.687
158 Benzo(k)fluoranthene	252	22.413	22.413	(0.967)	3651619	80 0000	86.048
159 7,12-dimethylbenz[a]anthracen	256	22.413	22.413	(0.967)	1643251	80 0000	93.396
167 Benzo(a)pyrene	252	23.049	23.049	(0.995)	2586545	80.0000	86.468
169 Indeno(1,2,3-cd)pyrene	276	25.506	25.506	(1.101)	3542909	80 0000	89.703
170 Dibenz(a,h)anthracene	278	25.549	25.549	(1.103)	3228416	80.0000	91 844
171 Benzo(g,h,i)perylene	276	26 120	26.120	(1.128)	2850535	80.0000	86.667
$ 172 Nitrobenzene-d5	82	5.831	5.831	(0.868)	836196	80.0000	79 595
$ 173 2-Fluorobiphenyl	172	8.491	8.491	(0.866)	1702039	80.0000	77 170
$ 174 Terphenyl-d14	244	17.215	17.215	(0.870)	2018423	80.0000	79.784
$ 175 Phenol-d5	99	4.821	4.821	(0.935)	1038331	80.0000	78.672
$ 176 2-Fluorophenol	112	3.812	3.812	(0.739)	815511	80.0000	78.756
$ 177 2,4,6-Tribromophenol	330	11.552	11 552	(0 880)	224627	80.0000	93.199
$ 178 2-Chlorophenol-d4	132	4.949	4.949	(0.960)	760977	80.0000	79.685
$ 179 1,2-Dichlorobenzene-d4	152	5.371	5 371	(1 041)	572363	80.0000	77.948

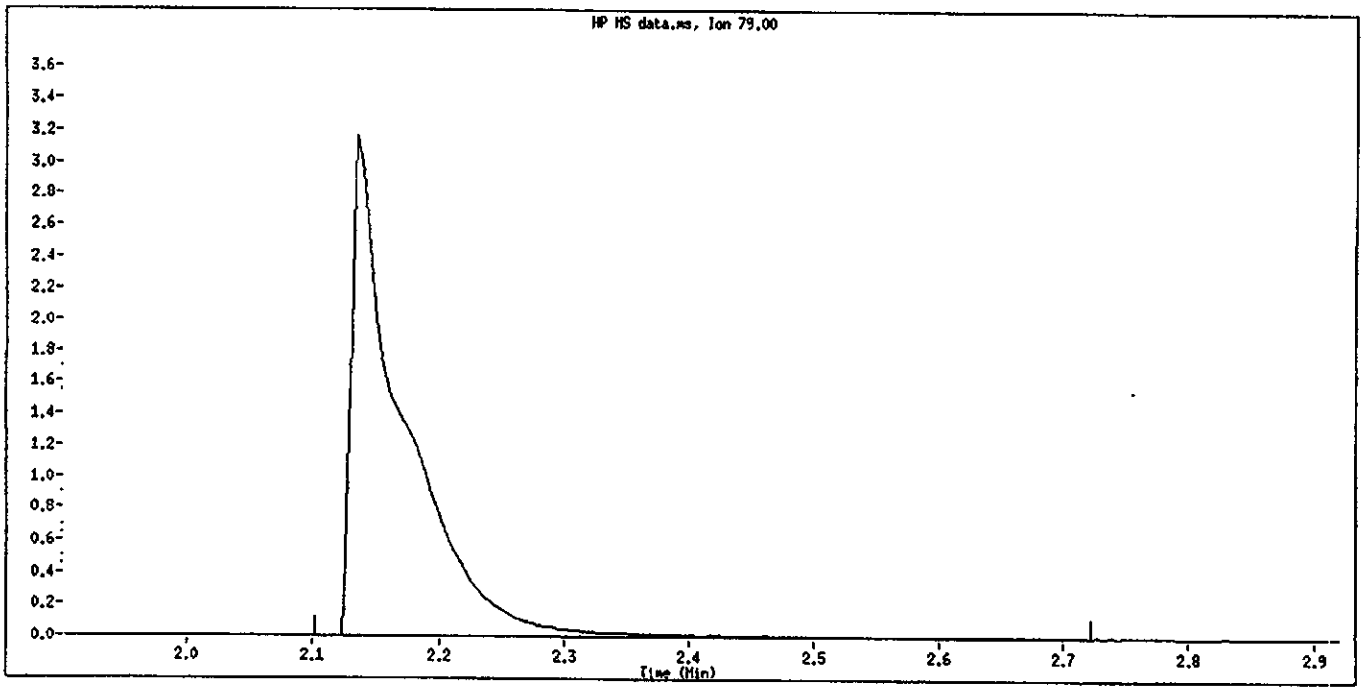
QC Flag Legend

M - Compound response manually integrated.

Data File Name: S0824C03.D
Inj Date and Time: 24-AUG-2000 16:38
Instrument ID: 71.i
Client ID. SSTD80
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 08/25/2000



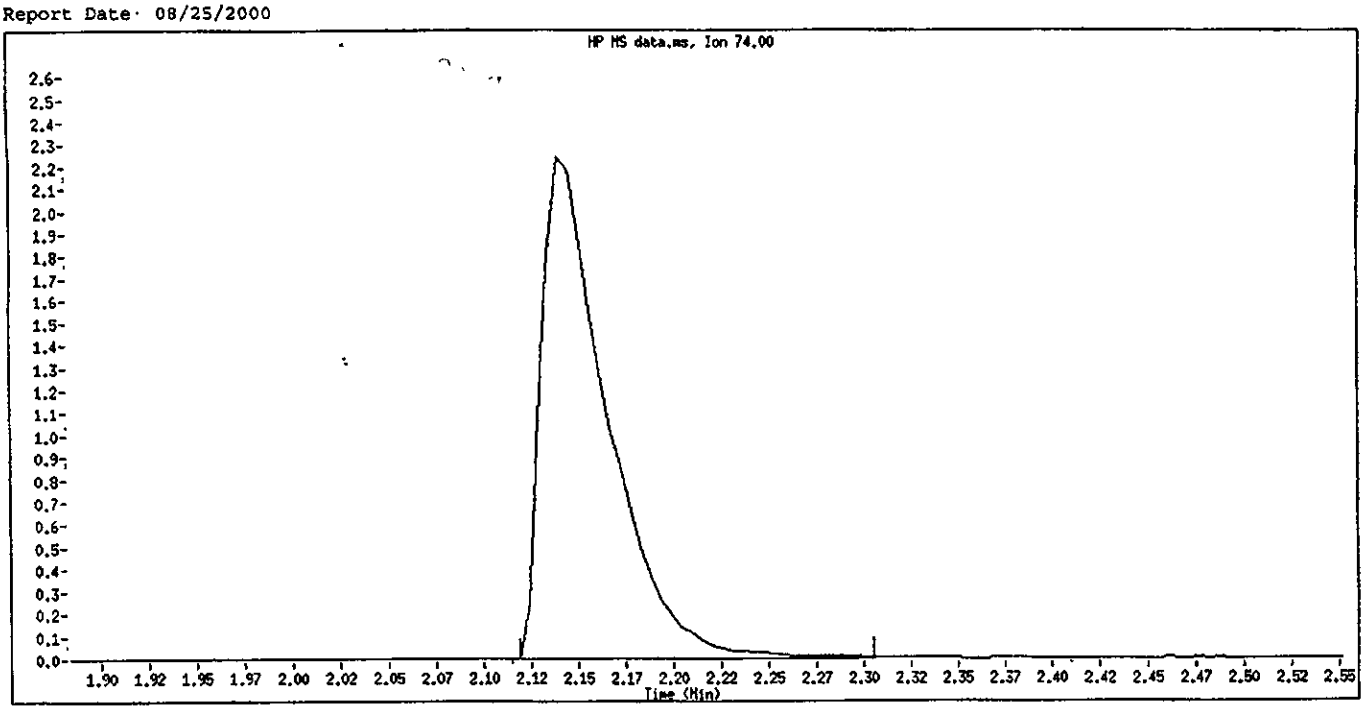
Original Integration



Manual Integration

Manually Integrated By BachaS
Manual Integration Reason: Unknown

Data File Name: S0824C03.D
Inj. Date and Time: 24-AUG-2000 16:38
Instrument ID: 71.i
Client ID: SSTD80
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 08/25/2000



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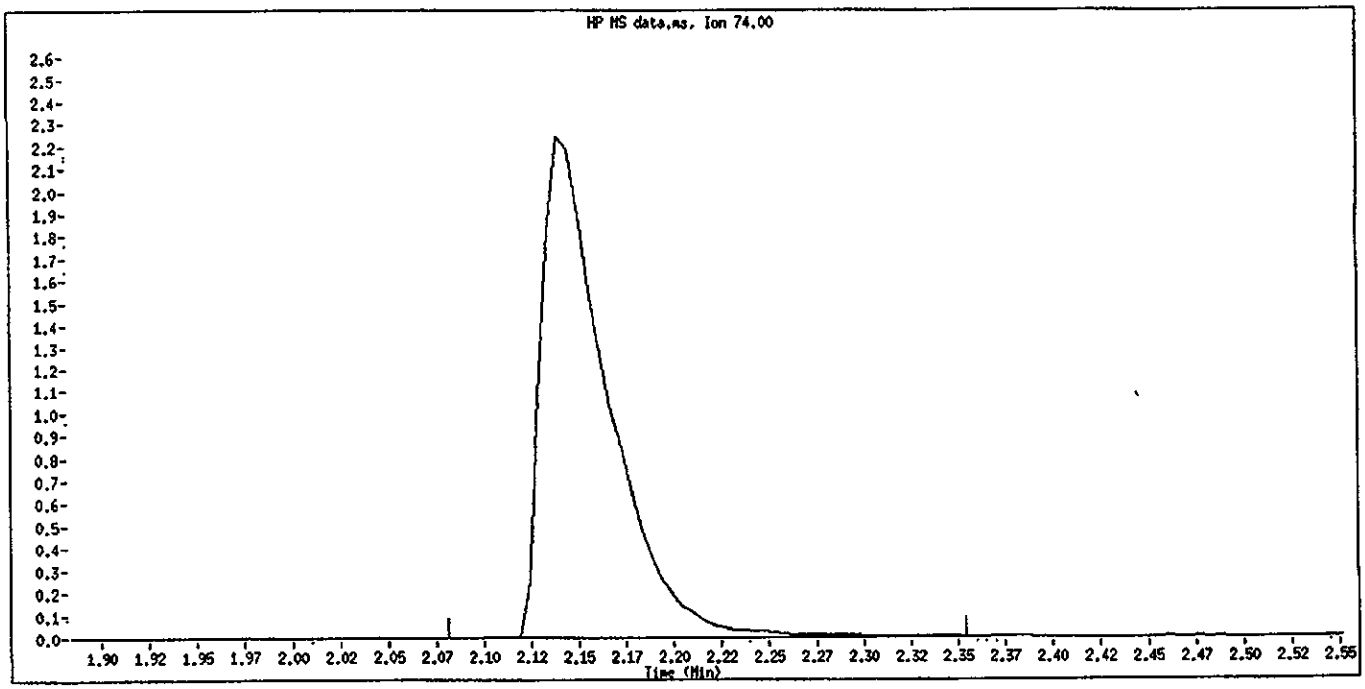
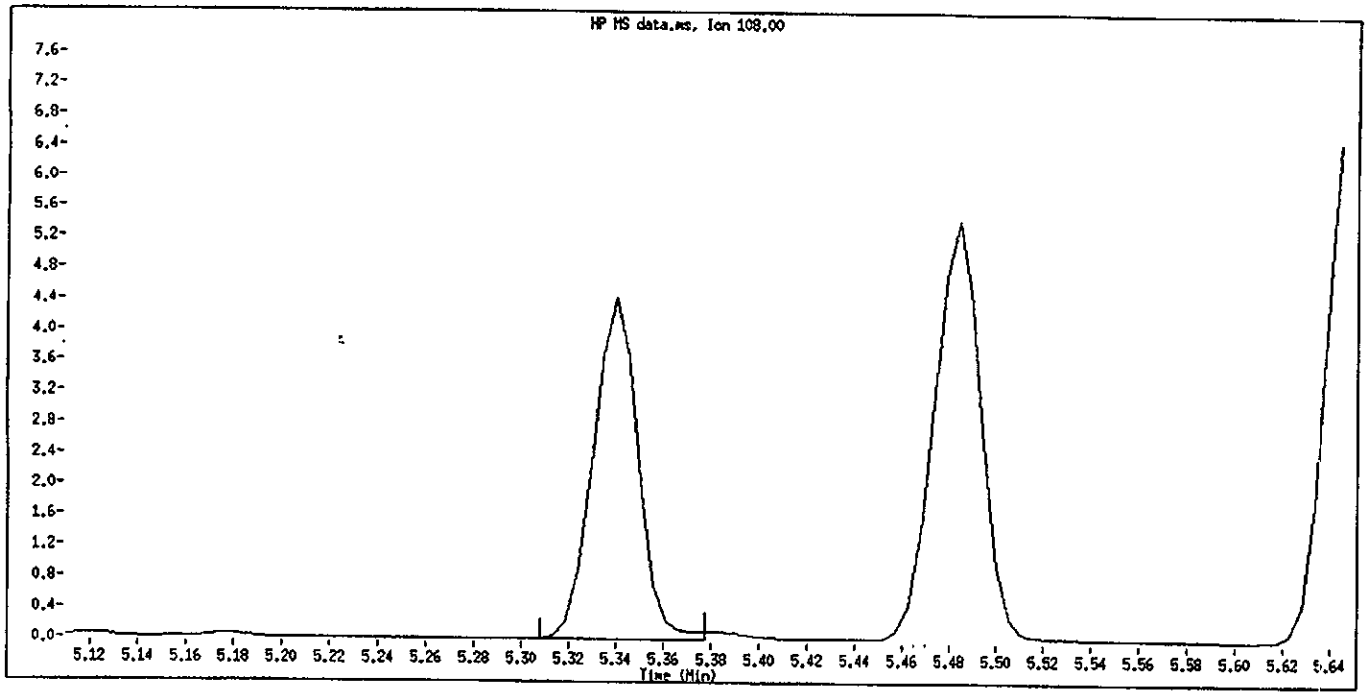


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

670 246

Data File Name: S0824C03.D
Inj. Date and Time: 24-AUG-2000 16:38
Instrument ID 71 i
Client ID: SSTD80
Compound Name: Benzyl Alcohol
CAS #: 100-51-6
Report Date: 08/25/2000



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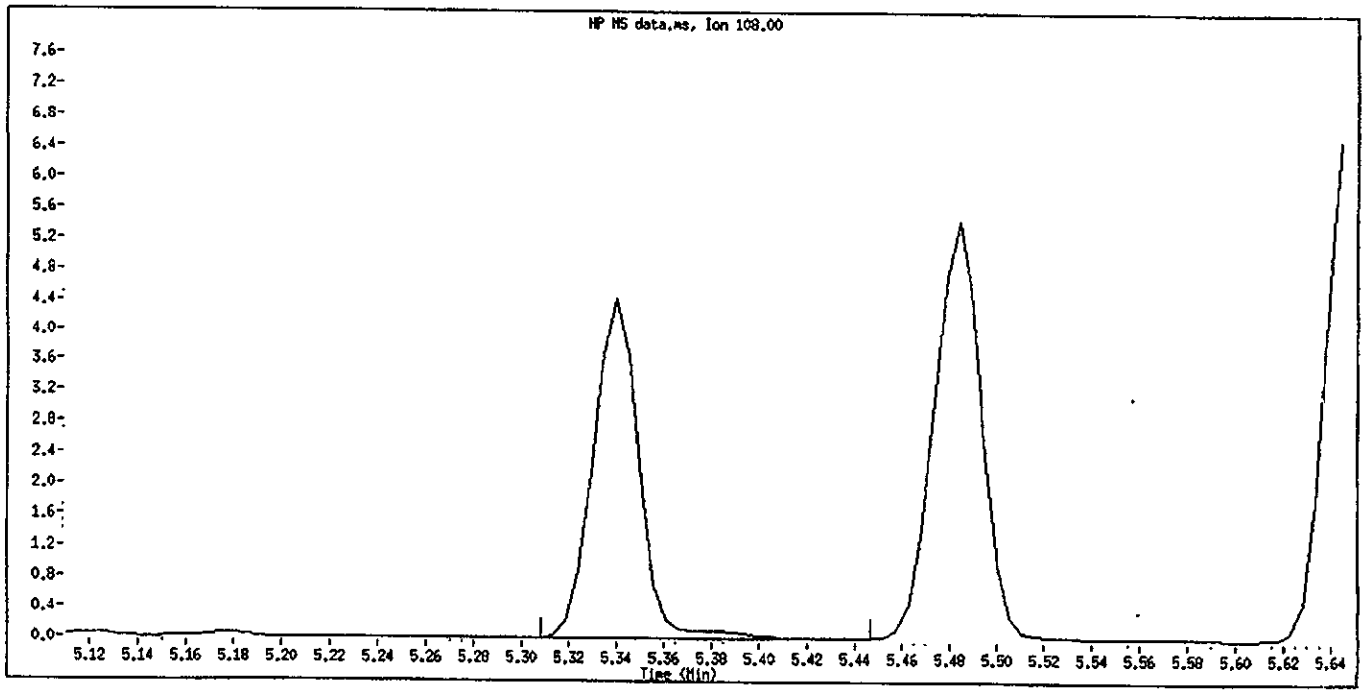
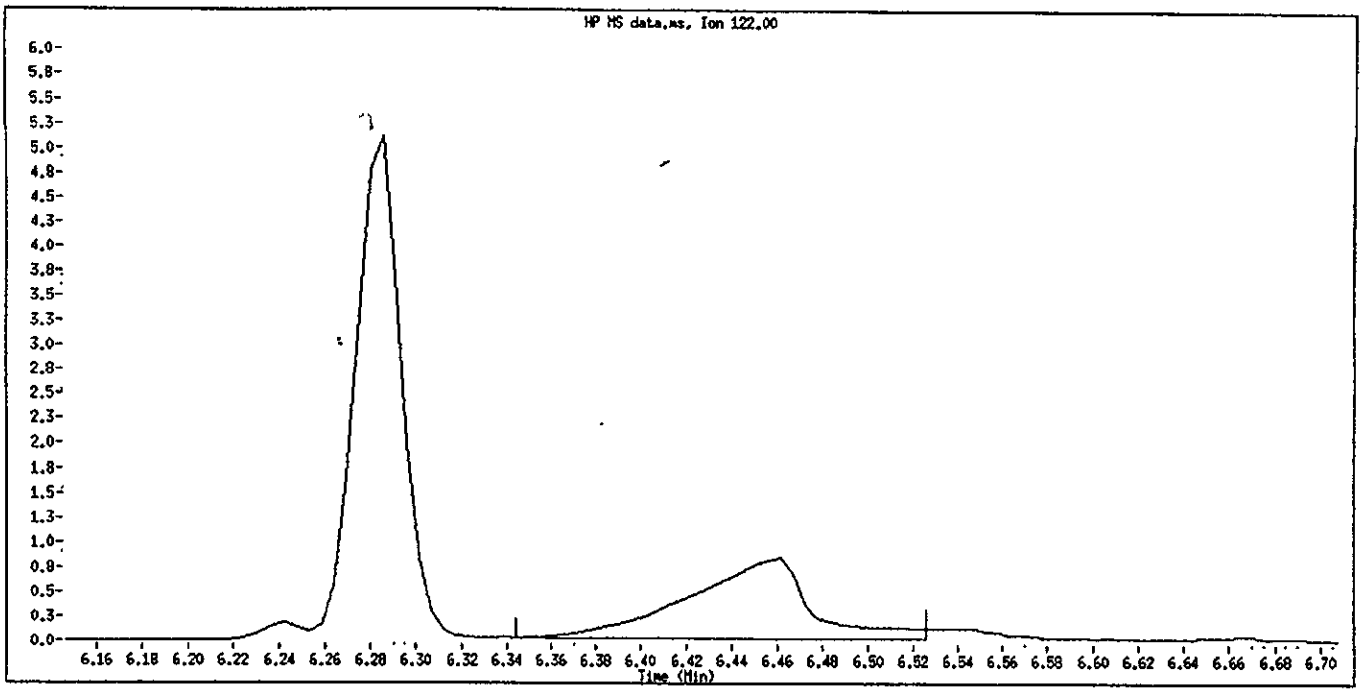


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824C03.D
Inj. Date and Time: 24-AUG-2000 16:38
Instrument ID: 71.i
Client ID: SSTD80
Compound Name Benzoic Acid
CAS #: 65-85-0
Report Date. 08/25/2000



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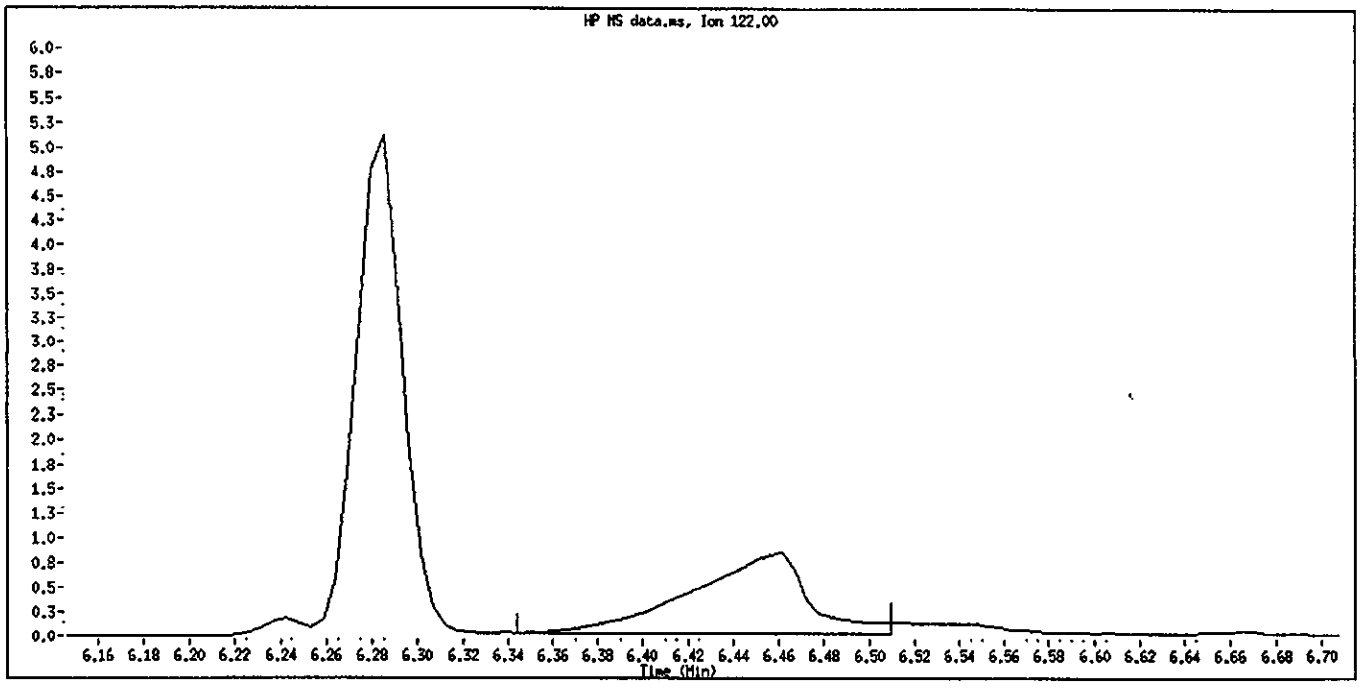
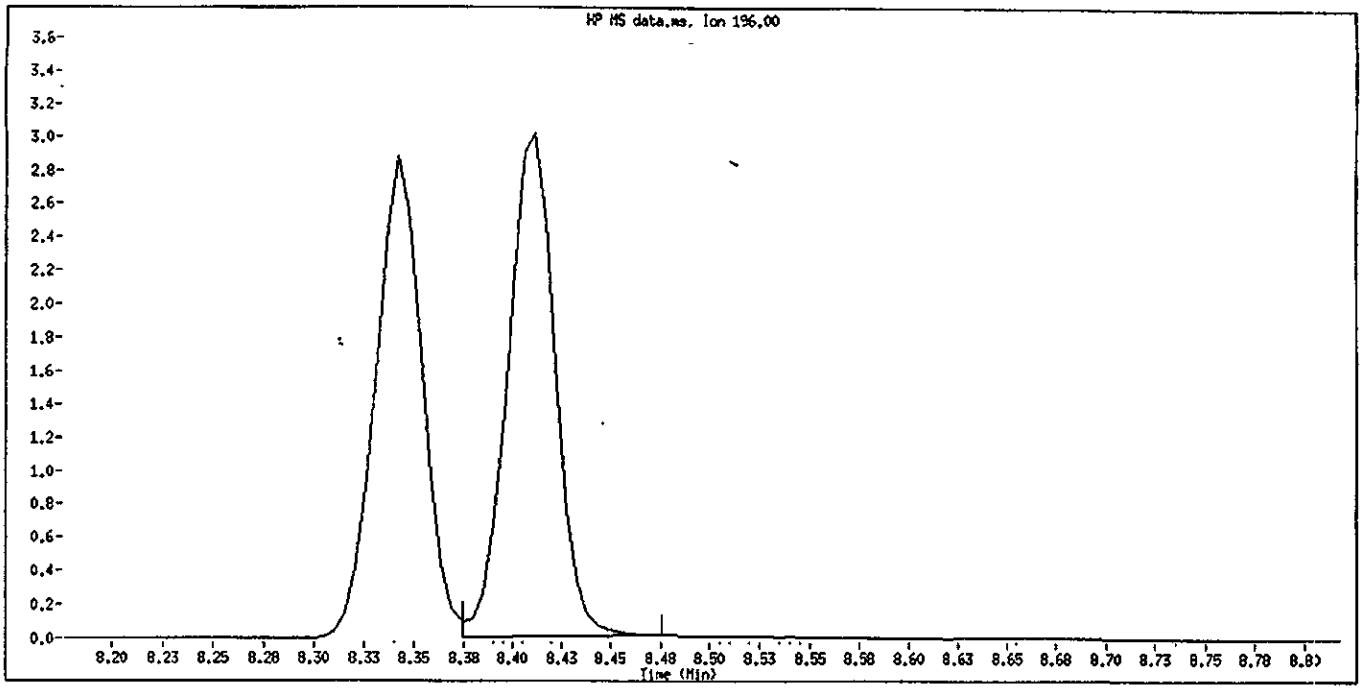


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824C03.D
Inj. Date and Time: 24-AUG-2000 16:38
Instrument ID. 71.i
Client ID: SSTD80
Compound Name 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date 08/25/2000



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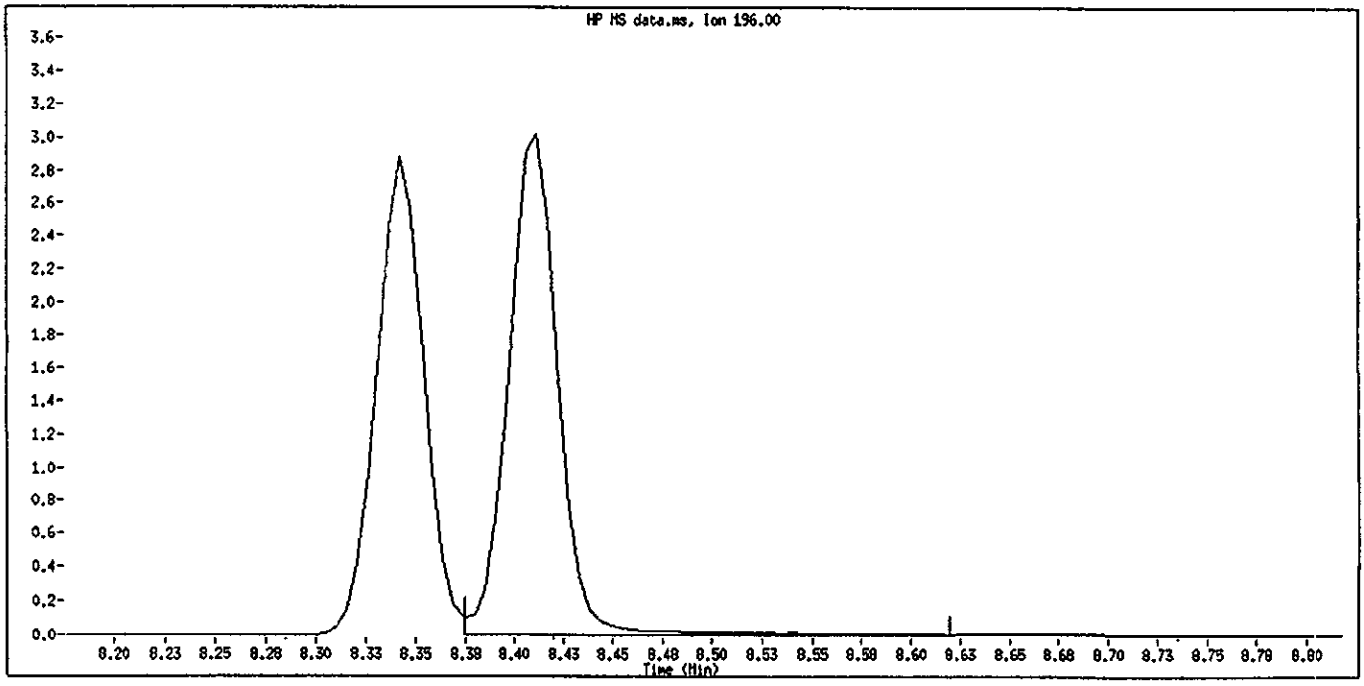
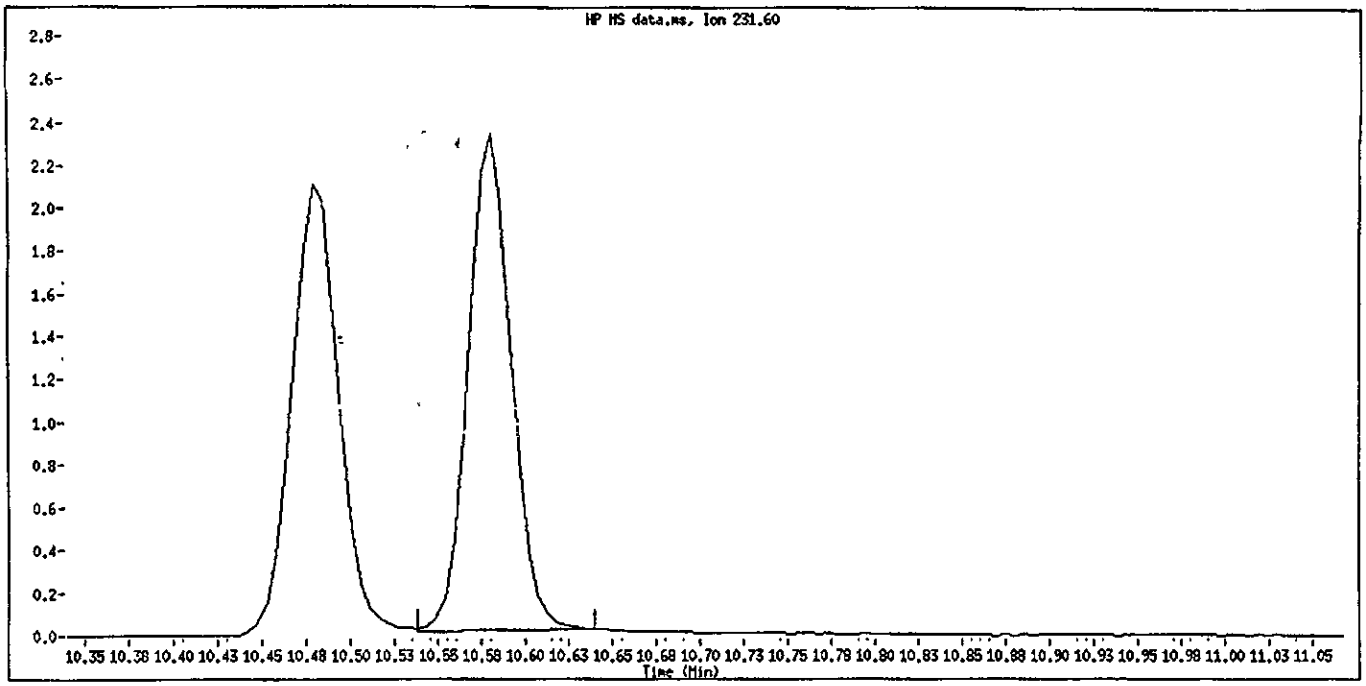


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name. S0824C03.D
Inj. Date and Time: 24-AUG-2000 16:38
Instrument ID. 71.i
Client ID: SSTD80
Compound Name: 2,3,4,6-Tetrachlorophenol
CAS #. 58-90-2
Report Date. 08/25/2000



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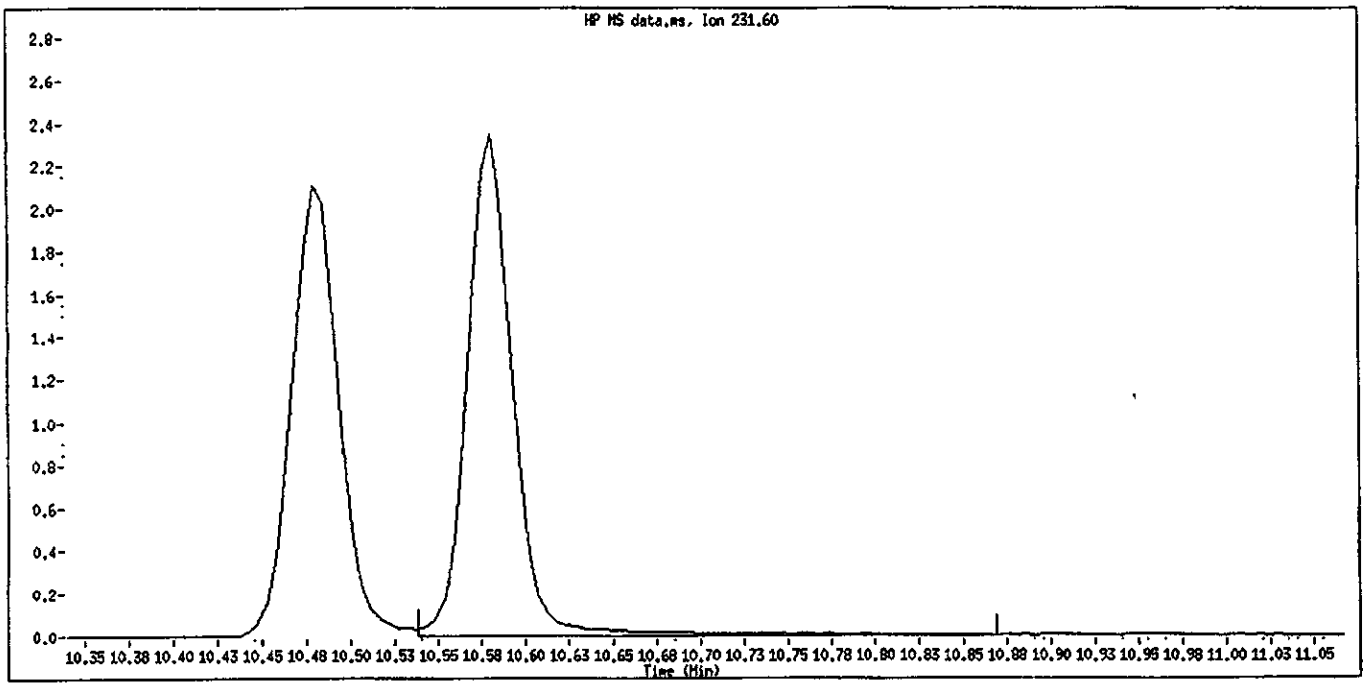
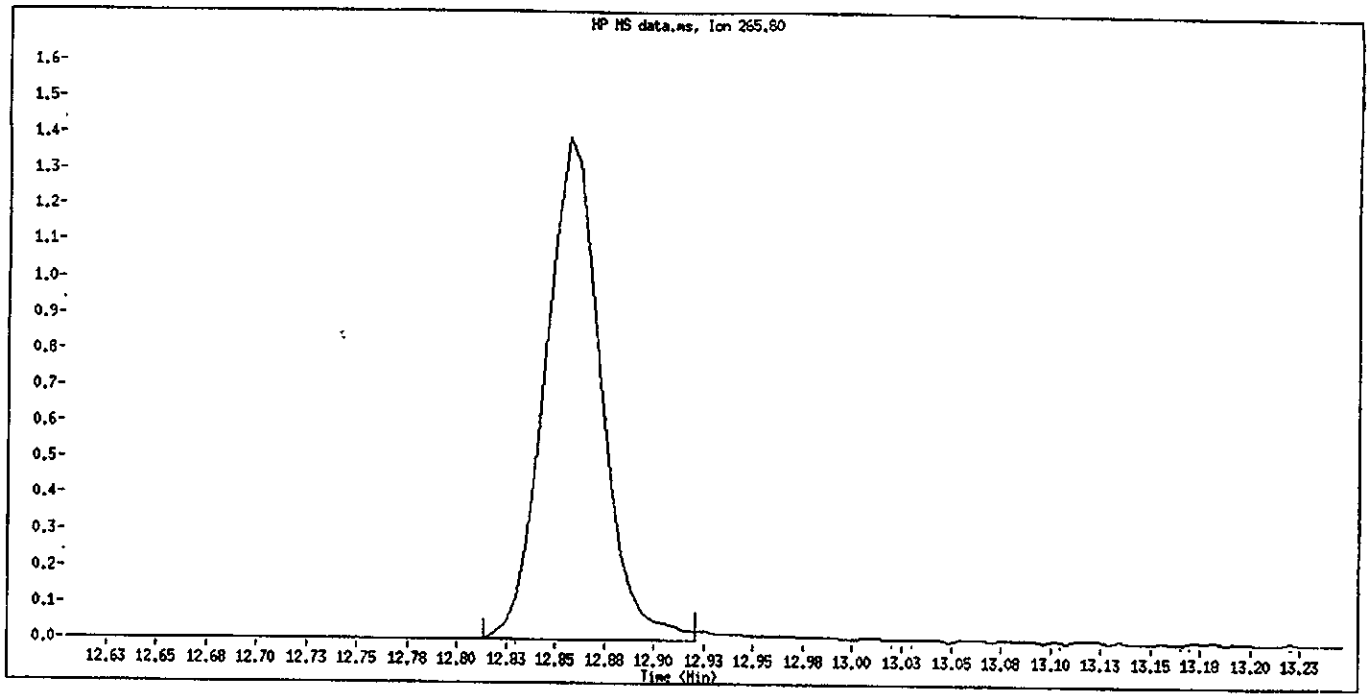


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

670 250

Data File Name. S0824C03 D
Inj Date and Time: 24-AUG-2000 16:38
Instrument ID. 71.i
Client ID: SSTD80
Compound Name: Pentachlorophenol
CAS #. 87-86-5
Report Date: 08/25/2000



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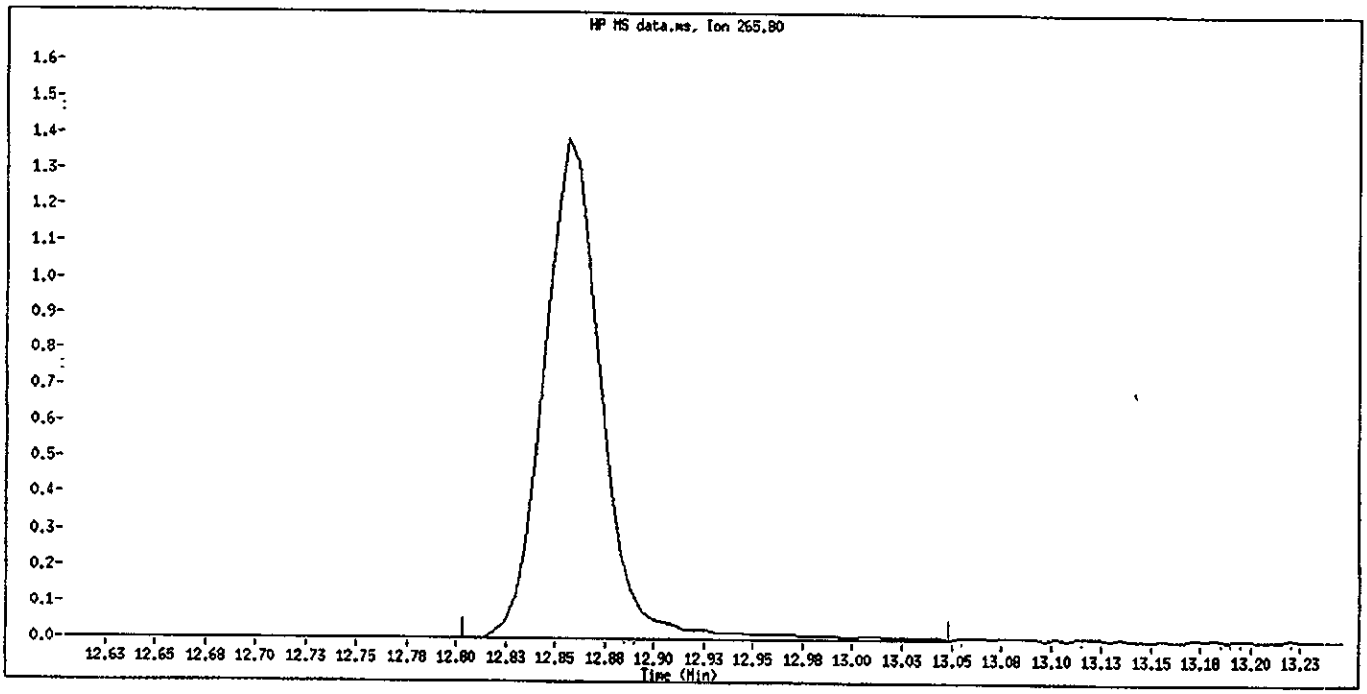
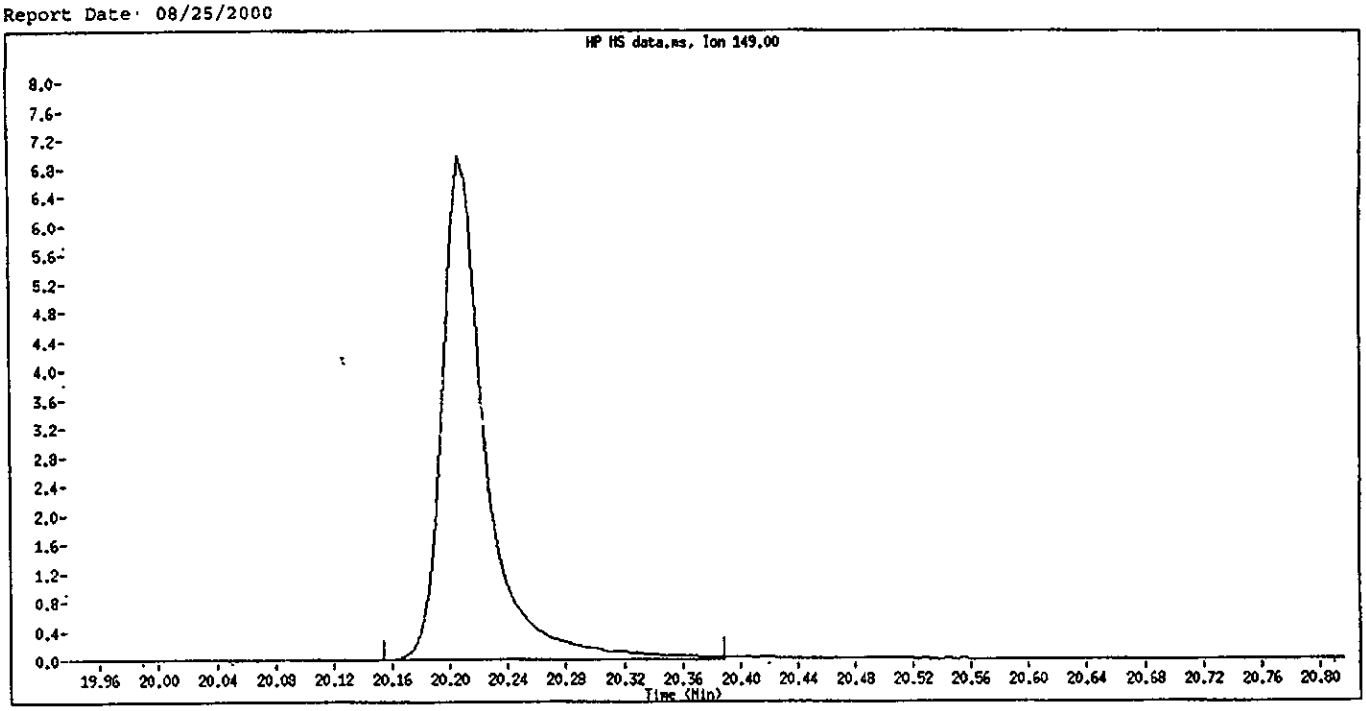


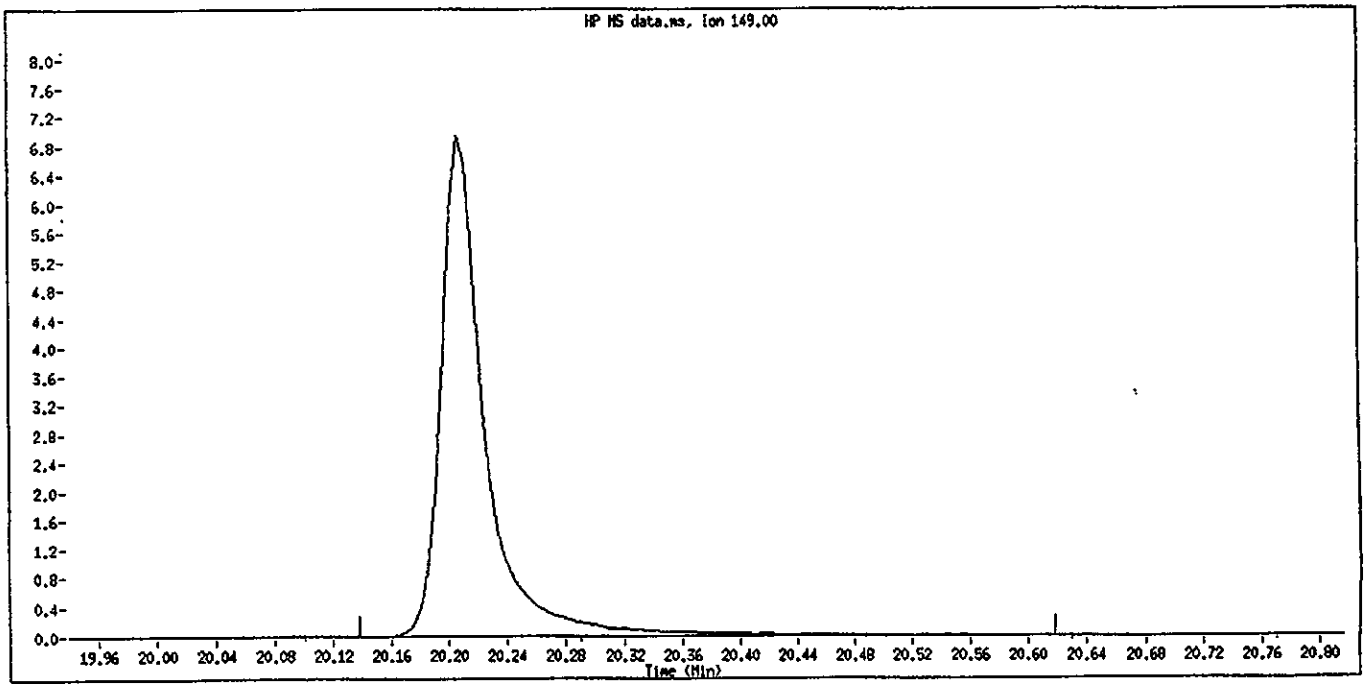
Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824C03.D
Inj. Date and Time: 24-AUG-2000 16:38
Instrument ID: 71 i
Client ID: SSTD80
Compound Name: bis(2-ethylhexyl)Phthalate
CAS #: 117-81-7
Report Date: 08/25/2000

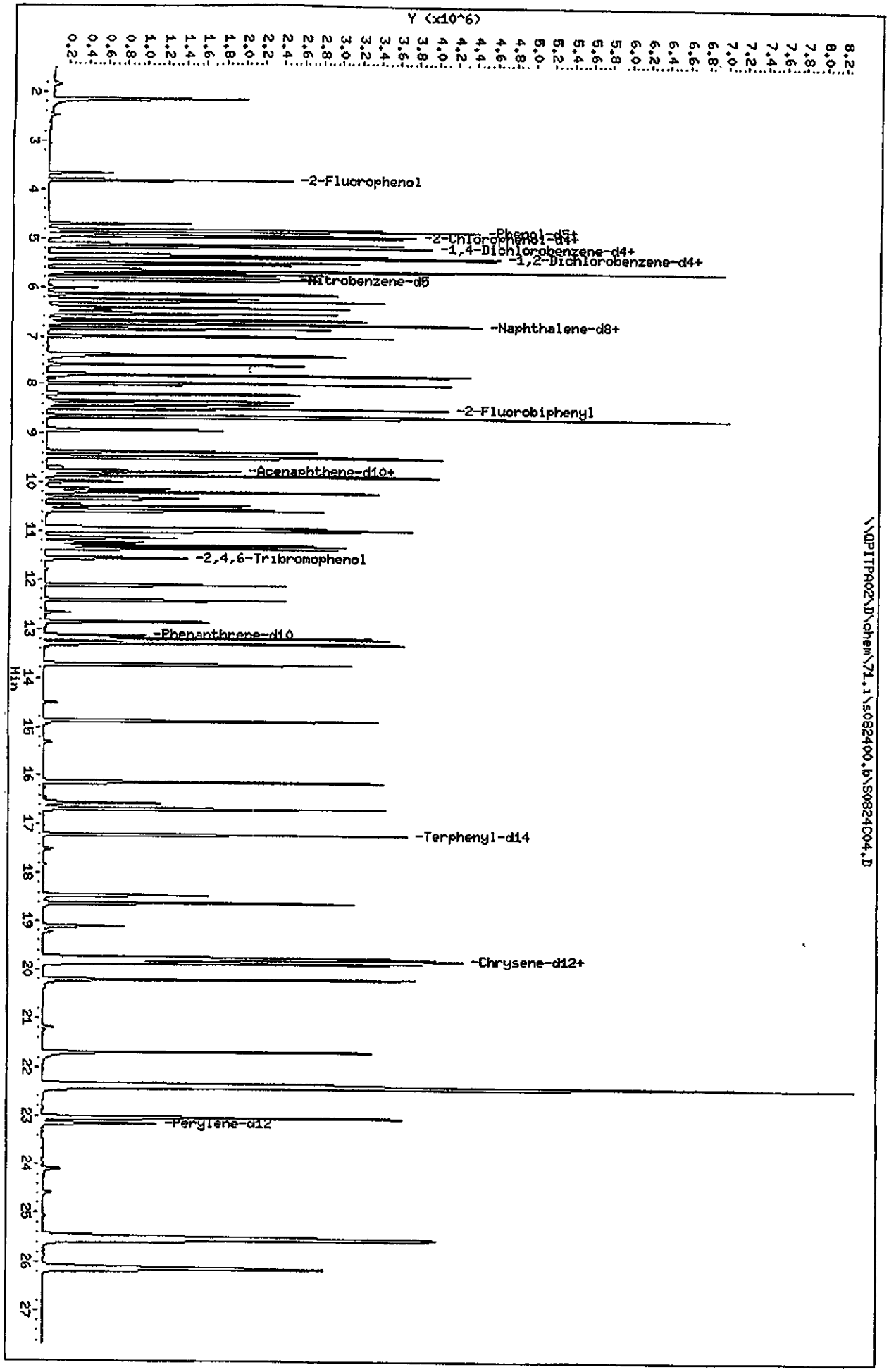


Original Integration



Manual Integration

Manually Integrated By. BachaS
Manual Integration Reason: Unknown



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Date : 24-AUG-2000 17:12
Client ID: SSTD120
Sample Info: sstd120(60 ug/ml) 194-188-6 8270/olp

Instrument: 71.i
Operator: 045183
Column diameter: 0.25

Column phase: Hp5-MS

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824C04.D
Lab Smp Id: sstd120 Client Smp ID: SSTD120
Inj Date : 24-AUG-2000 17:12
Operator : 045183 Inst ID: 71.i
Smp Info : sstd120(60 ug/ml) 194-188-6 8270/clp
Misc Info : sstd120,s082400.b,8270clp.m,1-8270l.sub,1,4
Comment :
Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
Meth Date : 25-Aug-2000 10:03 bachas Quant Type: ISTD
Cal Date : 24-AUG-2000 17:12 Cal File: S0824C04.D
Als bottle: 98 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8270l.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	5.159	5.159	(1.000)	291958	40.0000	
* 2 Naphthalene-d8	136	6.725	6.725	(1.000)	1044399	40.0000	
* 3 Acenaphthene-d10	164	9.802	9.802	(1.000)	569547	40.0000	
* 4 Phenanthrene-d10	188	13 130	13.130	(1.000)	972496	40.0000	
* 5 Chrysene-d12	240	19 797	19.797	(1.000)	1183024	40.0000	
* 6 Perylene-d12	264	23.168	23.168	(1.000)	1048648	40.0000	
13 N-Nitrosodimethylamine	74	2.136	2.136	(0.414)	727677	120.000	116.16(M)
10 Pyridine	79	2.125	2.125	(0.412)	1205305	120.000	115.09(M)
19 Methyl methanesulfonate	80	3.664	3.664	(0.710)	346120	120.000	114.31
22 Aniline	93	4.855	4.855	(0.941)	1461736	120.000	113.08
23 Phenol	94	4.839	4.839	(0.938)	1528394	120.000	115.40
24 bis(2-Chloroethyl)ether	93	4.924	4.924	(0.954)	1152561	120.000	115.06
25 2-Chlorophenol	128	4.967	4.967	(0.963)	1129757	120.000	118.27
27 1,3-Dichlorobenzene	146	5.122	5.122	(0.993)	1226006	120.000	116.53
28 1,4-Dichlorobenzene	146	5.175	5.175	(1.003)	1240022	120.000	115.65
29 1,2-Dichlorobenzene	146	5.389	5.389	(1 045)	1148953	120.000	115.53
30 Benzyl Alcohol	108	5.341	5.341	(1.035)	798285	120.000	119.33
31 2-Methylphenol	108	5.485	5.485	(1.063)	1012854	120 000	116.92
32 2,2'-oxybis(1-Chloropropane)	45	5.523	5.523	(1.070)	1327985	120.000	114.92
33 N-Nitroso-di-n-propylamine	70	5.688	5.688	(1.102)	774193	120.000	115.55
35 4-Methylphenol	108	5.651	5.651	(1.095)	1081114	120 000	116.10
38 Hexachloroethane	117	5.736	5.736	(1.112)	457322	120.000	118.86
39 Nitrobenzene	77	5 854	5.854	(0.871)	1154807	120.000	117.66
44 Isophorone	82	6.137	6.137	(0.913)	1994275	120 000	116.69
45 2-Nitrophenol	139	6.244	6.244	(0.928)	563791	120.000	146.12
46 2,4-Dimethylphenol	107	6.287	6.287	(0.935)	1041868	120.000	119.20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.420	6.420	(0.955)	1293335	120.000	118.20
51 2,4-Dichlorophenol	162	6.543	6.543	(0.973)	897687	120.000	123 25
52 Benzoic Acid	122	6.474	6.474	(0.963)	483327	120.000	180.42(AM)
53 1,2,4-Trichlorobenzene	180	6.666	6 666	(0.991)	1000210	120.000	122.30
54 Naphthalene	128	6 751	6.751	(1.004)	3143519	120.000	113.94
55 4-Chloroaniline	127	6 853	6.853	(1.019)	1299876	120.000	119.79
59 Hexachlorobutadiene	225	7.008	7.008	(1.042)	630773	120.000	126.44
62 4-Chloro-3-Methylphenol	107	7.590	7.590	(1.129)	921399	120.000	122 73
65 2-Methylnaphthalene	142	7.804	7.804	(1.160)	2098205	120.000	117.90
66 1-Methylnaphthalene	142	7.991	7.991	(1 188)	1975495	120.000	117.67
67 Hexachlorocyclopentadiene	237	8.199	8.199	(0.837)	664731	120.000	146.37
69 2,4,6-Trichlorophenol	196	8.343	8.343	(0.851)	632469	120 000	129.98
70 2,4,5-Trichlorophenol	196	8.413	8.413	(0.858)	703188	120.000	127.38(M)
73 2-Chloronaphthalene	162	8.664	8.664	(0.884)	1975085	120.000	120.31
77 2-Nitroaniline	65	8.931	8 931	(0.911)	580256	120 000	137.66
80 Dimethylphthalate	163	9.380	9.380	(0.957)	2207076	120.000	122.36
82 2,6-Dinitrotoluene	165	9.508	9.508	(0.970)	483663	120 000	137.69
83 Acenaphthylene	152	9.481	9 481	(0.967)	3068240	120 000	119.62
85 3-Nitroaniline	138	9.775	9 775	(0.997)	582603	120 000	133 26
86 Acenaphthene	153	9.871	9.871	(1.007)	1965772	120 000	119 82
87 2,4-Dinitrophenol	184	9.989	9.989	(1 019)	215086	120.000	193.84(A)
89 4-Nitrophenol	109	10.144	10 144	(1.035)	301020	120.000	136.14
90 Dibenzofuran	168	10.208	10.208	(1.041)	2733034	120 000	119.80
91 2,4-Dinitrotoluene	165	10.331	10.331	(1.054)	630253	120.000	138.83
95 2,3,5,6-Tetrachlorophenol	232	10.480	10.480	(1.069)	545532	120.000	139.78
92 2,3,4,6-Tetrachlorophenol	232	10 582	10.582	(1.080)	587213	120.000	133.14(M)
96 2-Naphthylamine	143	10.560	10.560	(1.077)	1127256	120.000	105.68
97 Diethylphthalate	149	10.929	10.929	(1 115)	2182306	120.000	123.60
98 Fluorene	166	10.966	10.966	(1.119)	2268425	120.000	121.72
99 4-Chlorophenyl-phenylether	204	10.998	10.998	(1.122)	1132076	120.000	125.52
100 4-Nitroaniline	138	11.137	11.137	(1.136)	582942	120.000	132.19
102 4,6-Dinitro-2-methylphenol	198	11.233	11.233	(0.856)	313491	120.000	183.56(A)
103 N-Nitrosodiphenylamine (1)	169	11 298	11.298	(0.860)	1615414	120.000	123.14
104 1,2-Diphenylhydrazine	77	11.356	11.356	(0.865)	2232916	120.000	117 95
112 4-Bromophenyl-phenylether	248	12.115	12.115	(0 923)	633909	120.000	130.03
113 Hexachlorobenzene	284	12.425	12.425	(0.946)	703199	120.000	131.08
117 Pentachlorophenol	266	12.857	12.857	(0.979)	417454	120.000	156.99(M)
122 Phenanthrene	178	13.189	13.189	(1.004)	3050205	120.000	122.22
123 Anthracene	178	13.301	13.301	(1.013)	3169775	120.000	124.09
126 Carbazole	167	13.734	13.734	(1.046)	3016323	120 000	126.50
130 Di-n-Butylphthalate	149	14.877	14.877	(1.133)	3503842	120.000	134.48
135 Fluoranthene	202	16.143	16.143	(1.229)	3382961	120.000	130.97
136 Benzidine	184	16.560	16.560	(0 836)	1131439	120.000	158.13
137 Pyrene	202	16.693	16.693	(0.843)	3515498	120.000	116.64
144 Butylbenzylphthalate	149	18.632	18.632	(0.941)	1535755	120.000	148.50
149 3,3'-Dichlorobenzidine	252	19.802	19.802	(1.000)	1588984	120.000	137.96
150 Benzo(a)Anthracene	228	19.760	19.760	(0.998)	3613892	120.000	125.71

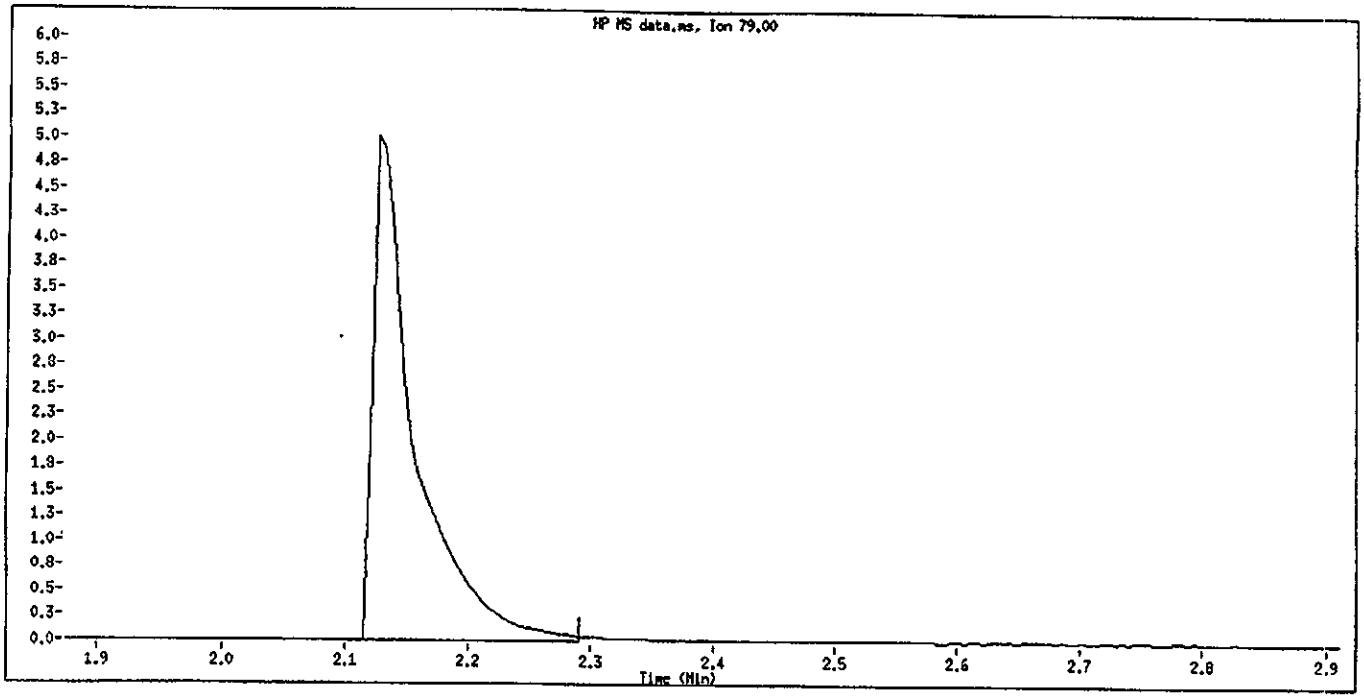
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
151 Chrysene	228	19.866	19.866	(1.004)	3419215	120.000	122.27
153 bis(2-ethylhexyl)Phthalate	149	20.208	20 208	(1.021)	2174102	120.000	150.31(M)
155 Di-n-octylphthalate	149	21.688	21.688	(0.936)	3635623	120 000	157.75
157 Benzo(b)fluoranthene	252	22.366	22.366	(0.965)	4173814	120.000	137.85
158 Benzo(k)fluoranthene	252	22.425	22.425	(0.968)	5205450	120.000	126 96
159 7,12-dimethylbenz[a]anthracen	256	22.425	22.425	(0.968)	2417395	120 000	137.83
167 Benzo(a)pyrene	252	23 056	23.056	(0.995)	3906933	120 000	132.91
169 Indeno(1,2,3-cd)pyrene	276	25.518	25.518	(1.101)	5611964	120.000	141.16
170 Dibenz(a,h)anthracene	278	25.566	25.566	(1.104)	5105708	120.000	143.36
171 Benzo(g,h,i)perylene	276	26.143	26.143	(1.128)	4576079	120.000	139.07
$ 172 Nitrobenzene-d5	82	5.833	5.833	(0.867)	1124051	120.000	120.58
$ 173 2-Fluorobiphenyl	172	8.493	8.493	(0.866)	2250815	120.000	119.45
$ 174 Terphenyl-d14	244	17.217	17.217	(0 870)	2794236	120.000	120.69
$ 175 Phenol-d5	99	4.828	4.828	(0 936)	1375540	120.000	116.01
$ 176 2-Fluorophenol	112	3.808	3.808	(0.738)	1111430	120.000	118.62
$ 177 2,4,6-Tribromophenol	330	11.554	11.554	(0.880)	317011	120.000	145.16
$ 178 2-Chlorophenol-d4	132	4.951	4.951	(0.960)	1022512	120.000	118.40
$ 179 1,2-Dichlorobenzene-d4	152	5.373	5.373	(1.041)	778776	120.000	117 55

QC Flag Legend

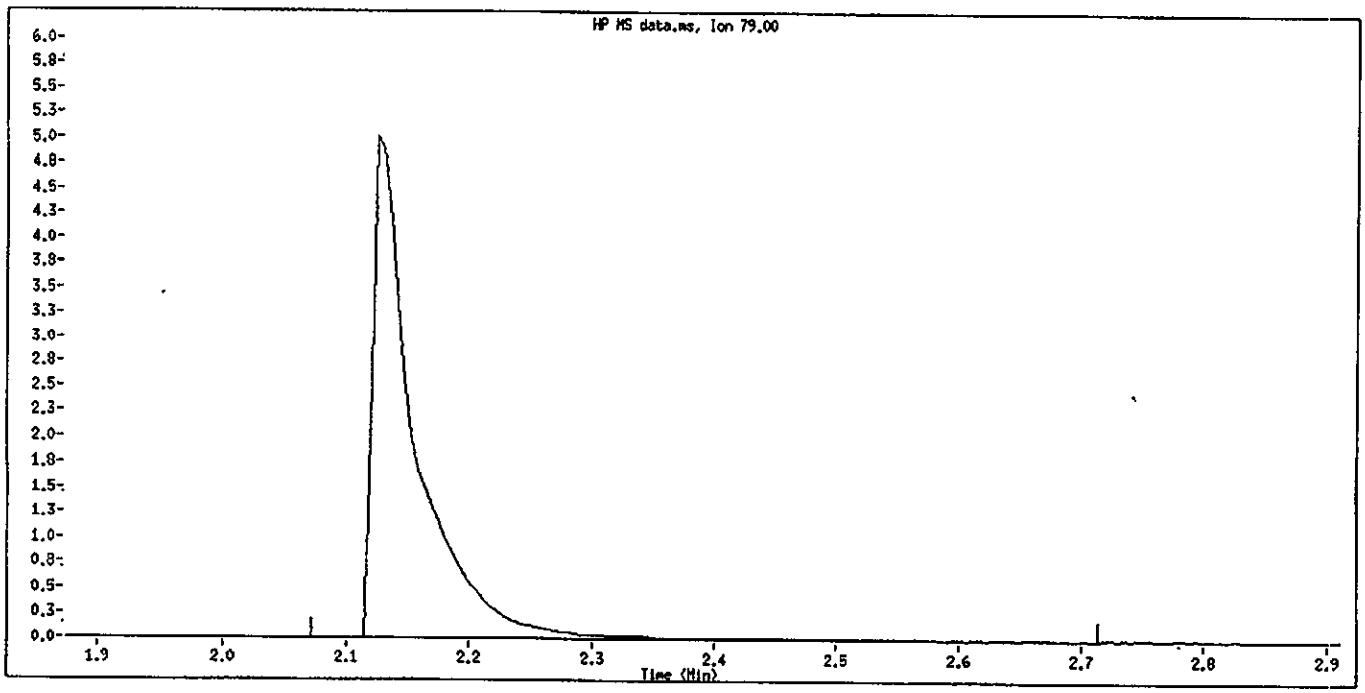
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

670 256

Data File Name: S0824C04.D
Inj. Date and Time: 24-AUG-2000 17:12
Instrument ID: 71.i
Client ID. SSTD120
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 08/25/2000



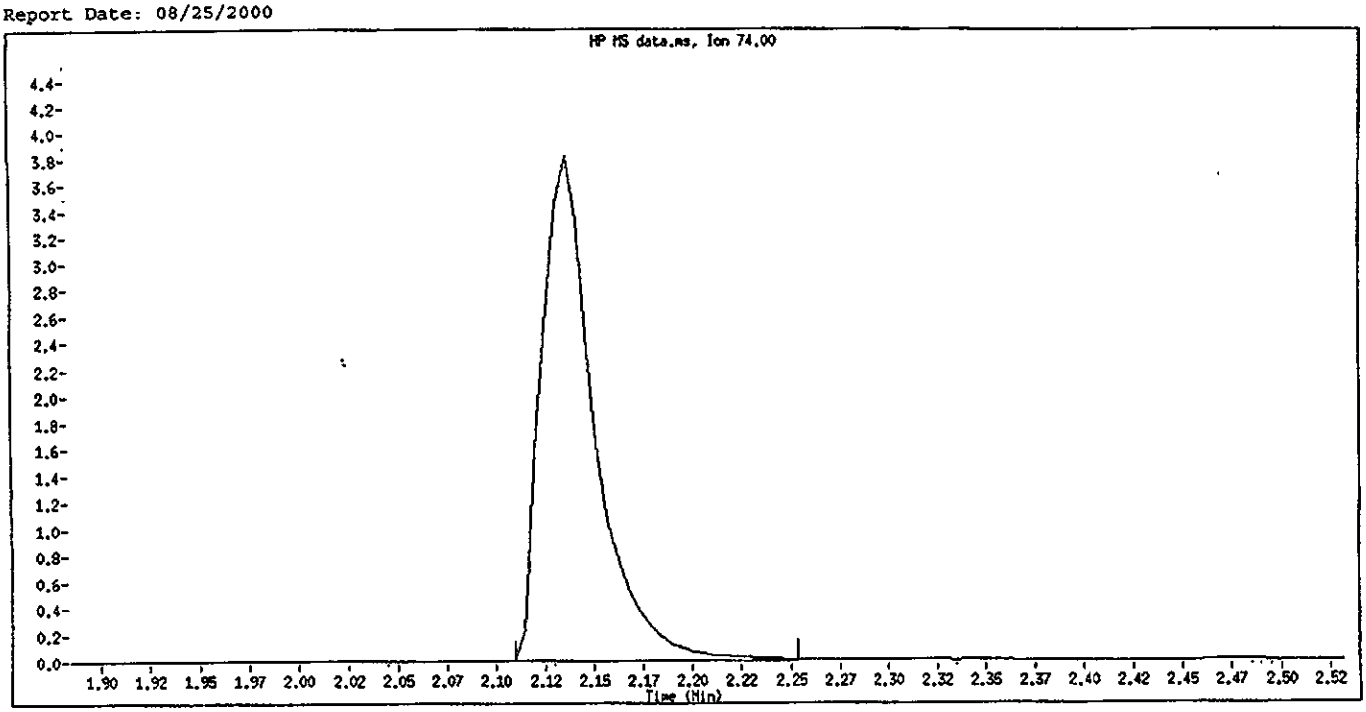
Original Integration



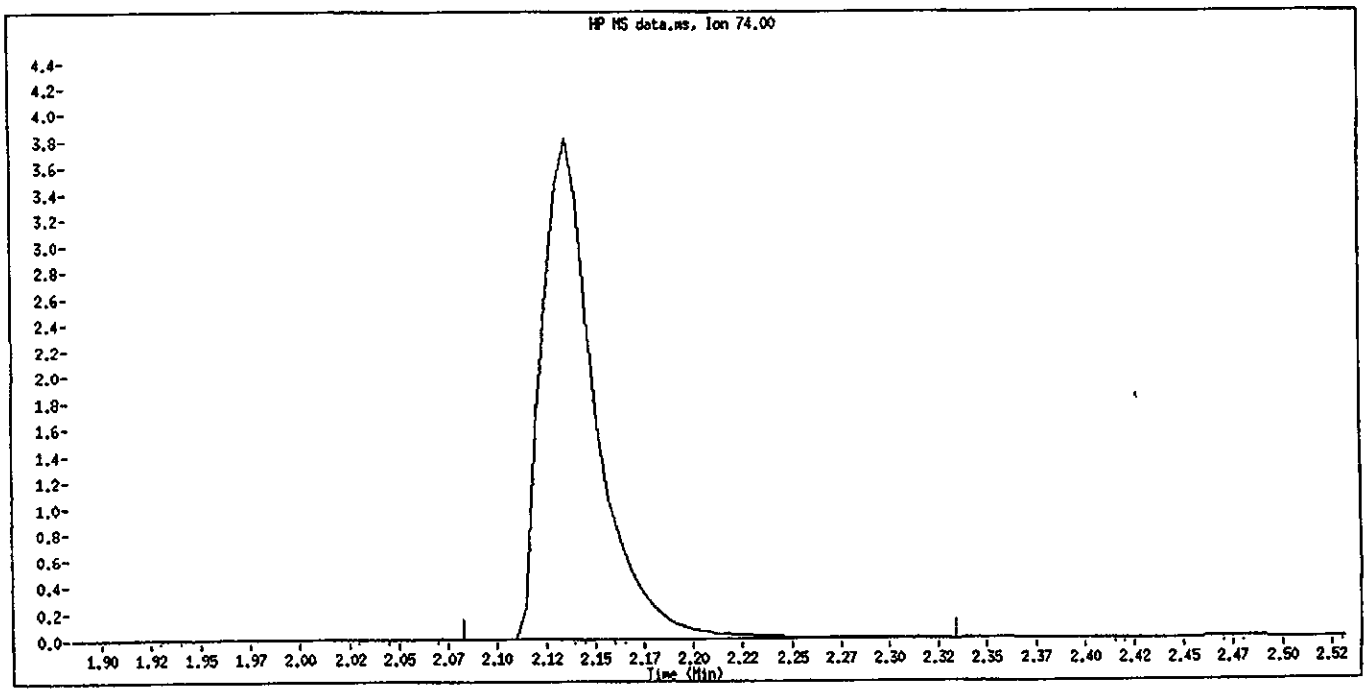
Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name: S0824C04.D
Inj. Date and Time: 24-AUG-2000 17:12
Instrument ID. 71.1
Client ID: SSTD120
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

670 258

Data File Name. S0824C04 D

Inj. Date and Time: 24-AUG-2000 17:12

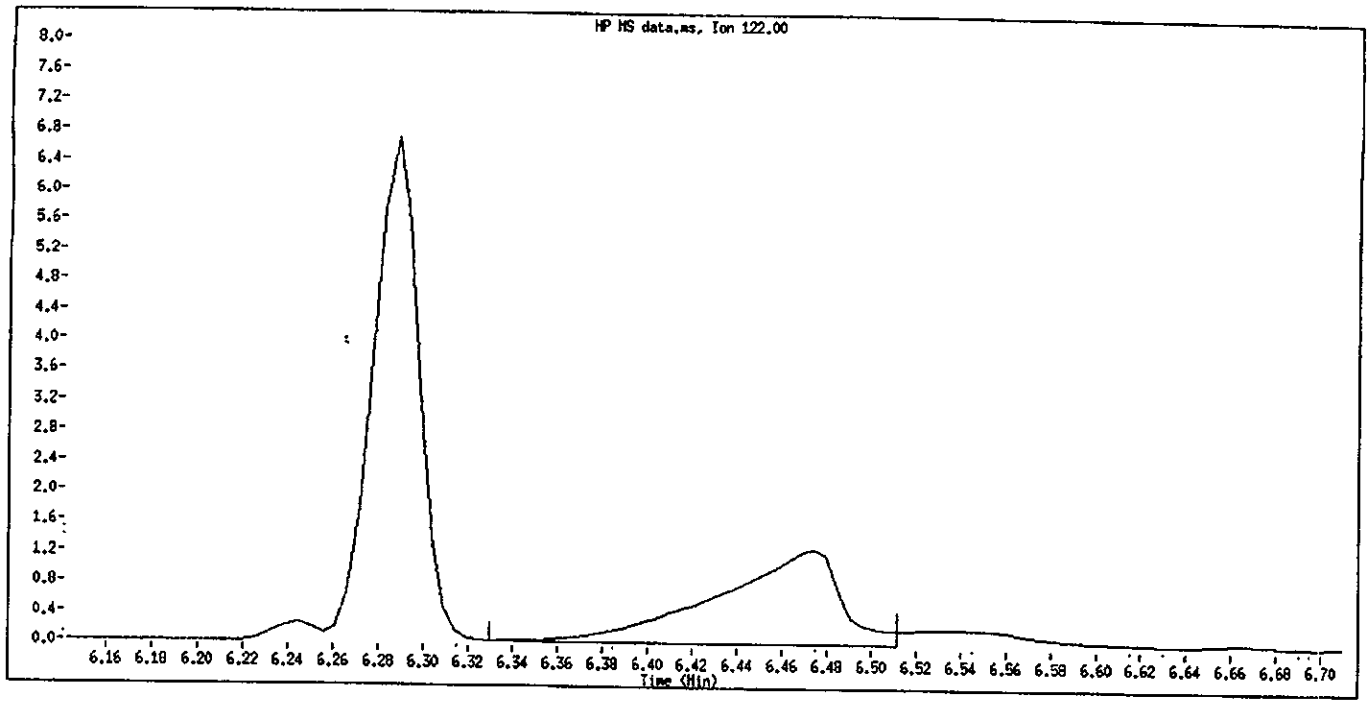
Instrument ID 71.1

Client ID: SSTD120

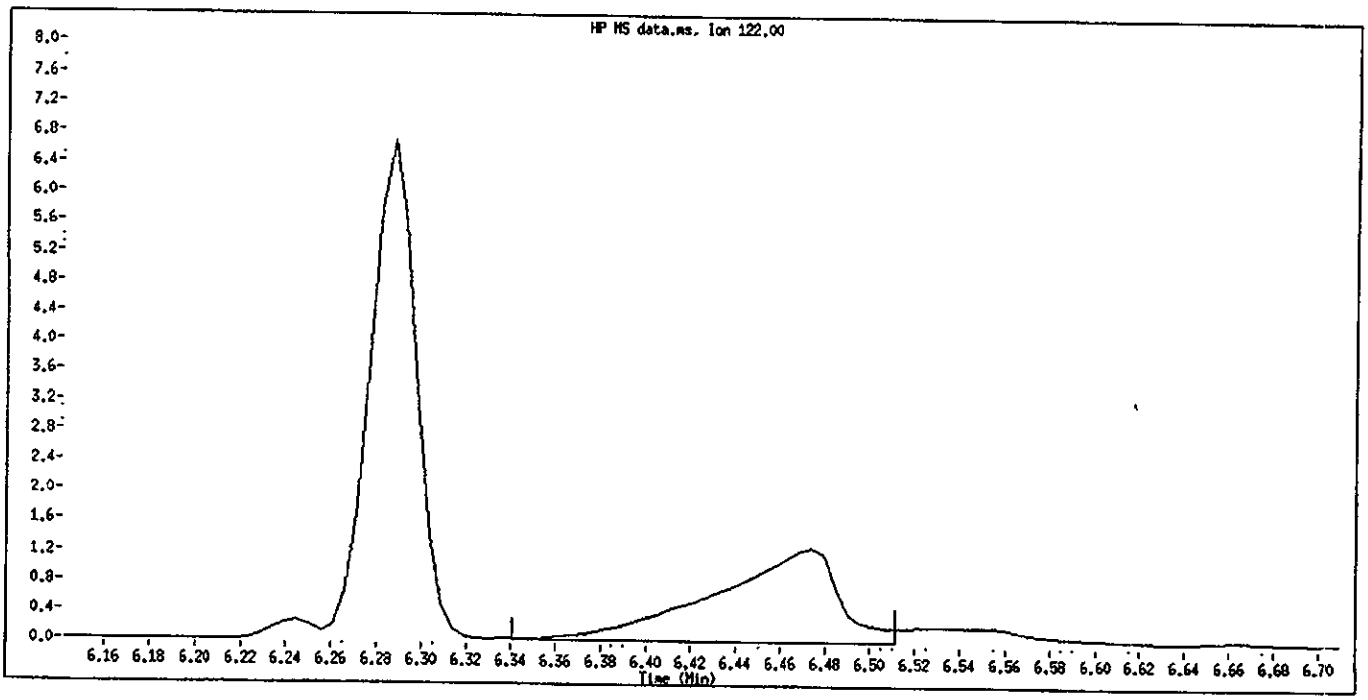
Compound Name: Benzoic Acid

CAS # 65-85-0

Report Date: 08/25/2000



Original Integration

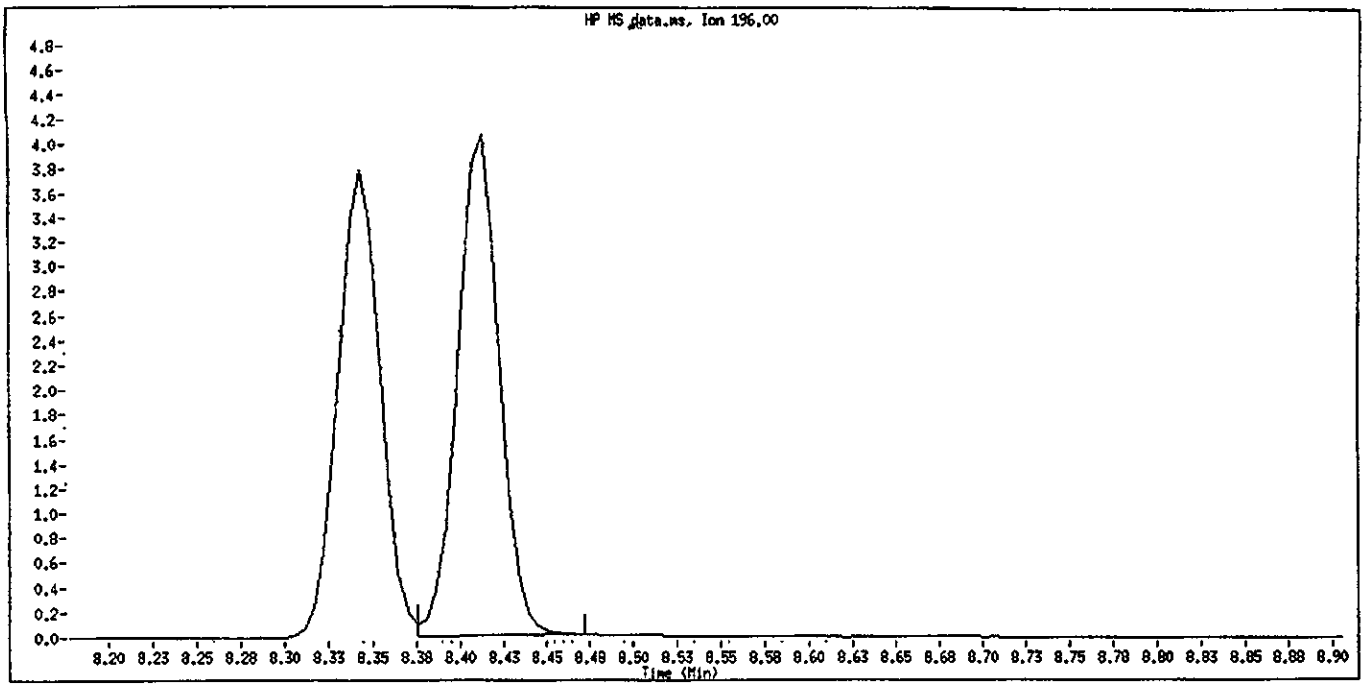


Manual Integration

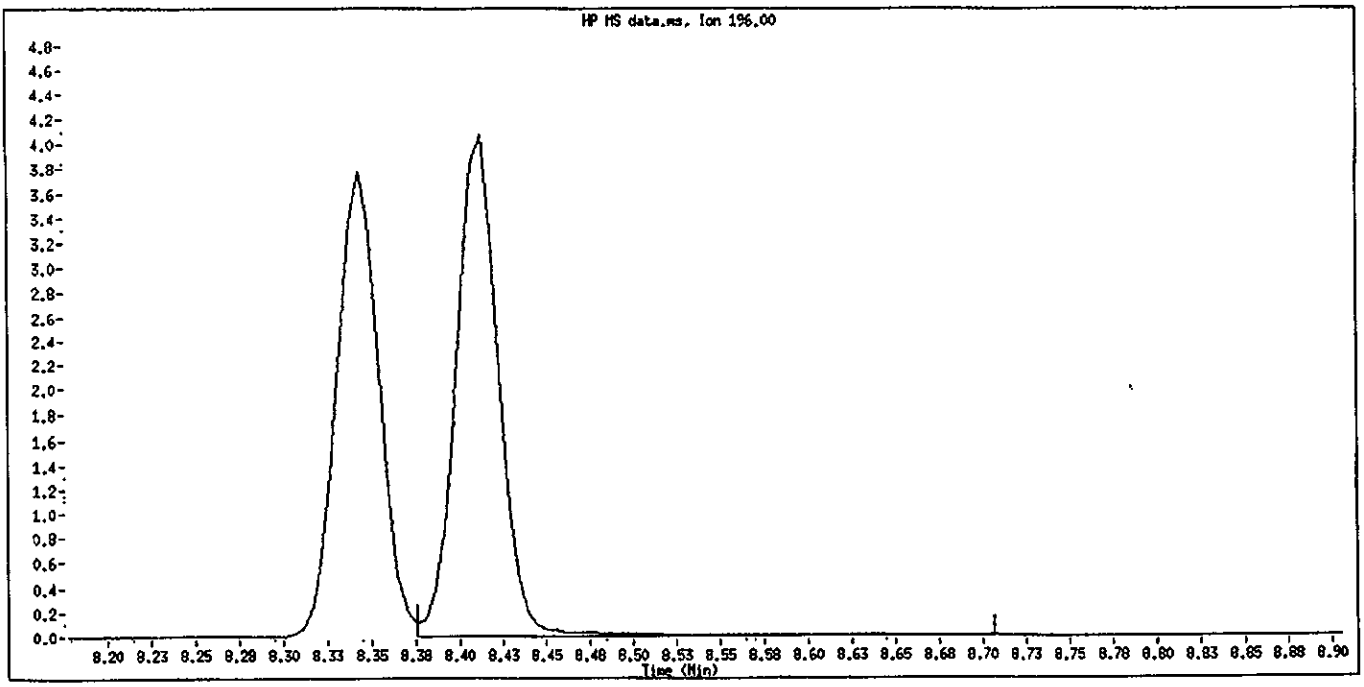
Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File Name: S0824C04.D
Inj. Date and Time 24-AUG-2000 17:12
Instrument ID: 71.1
Client ID. SSTD120
Compound Name. 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date. 08/25/2000



Original Integration

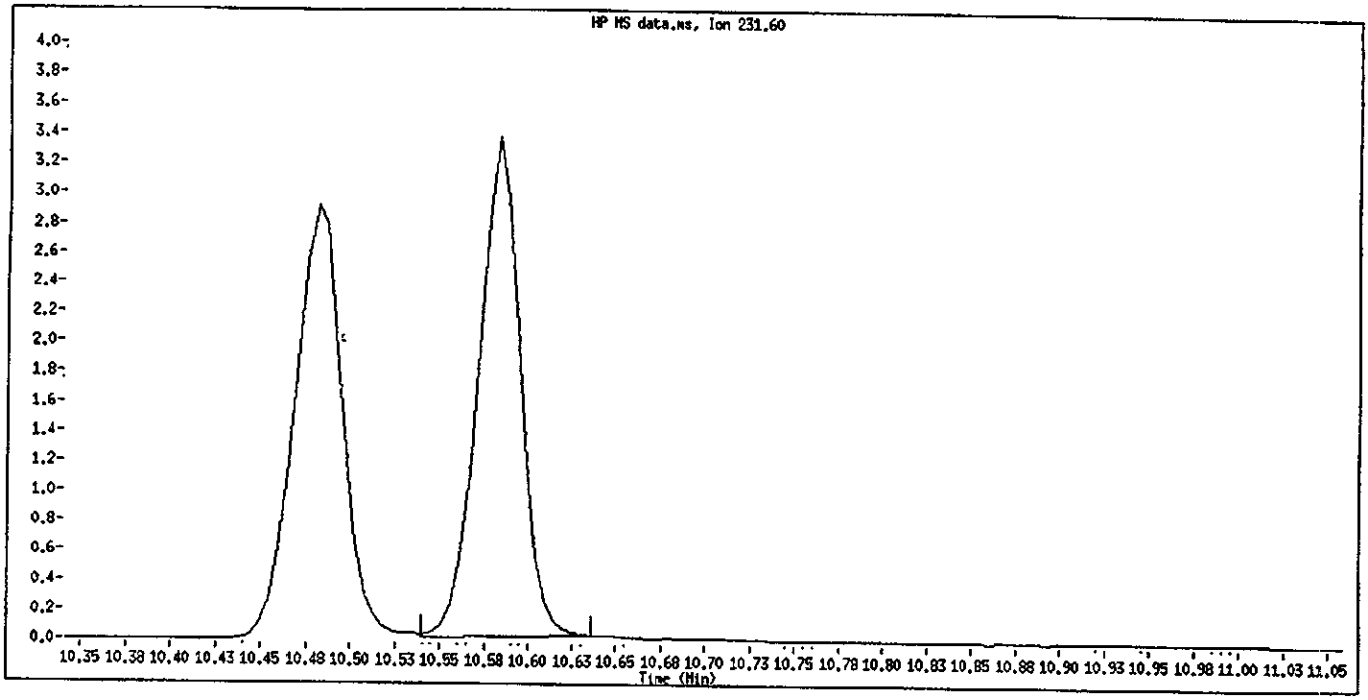


Manual Integration

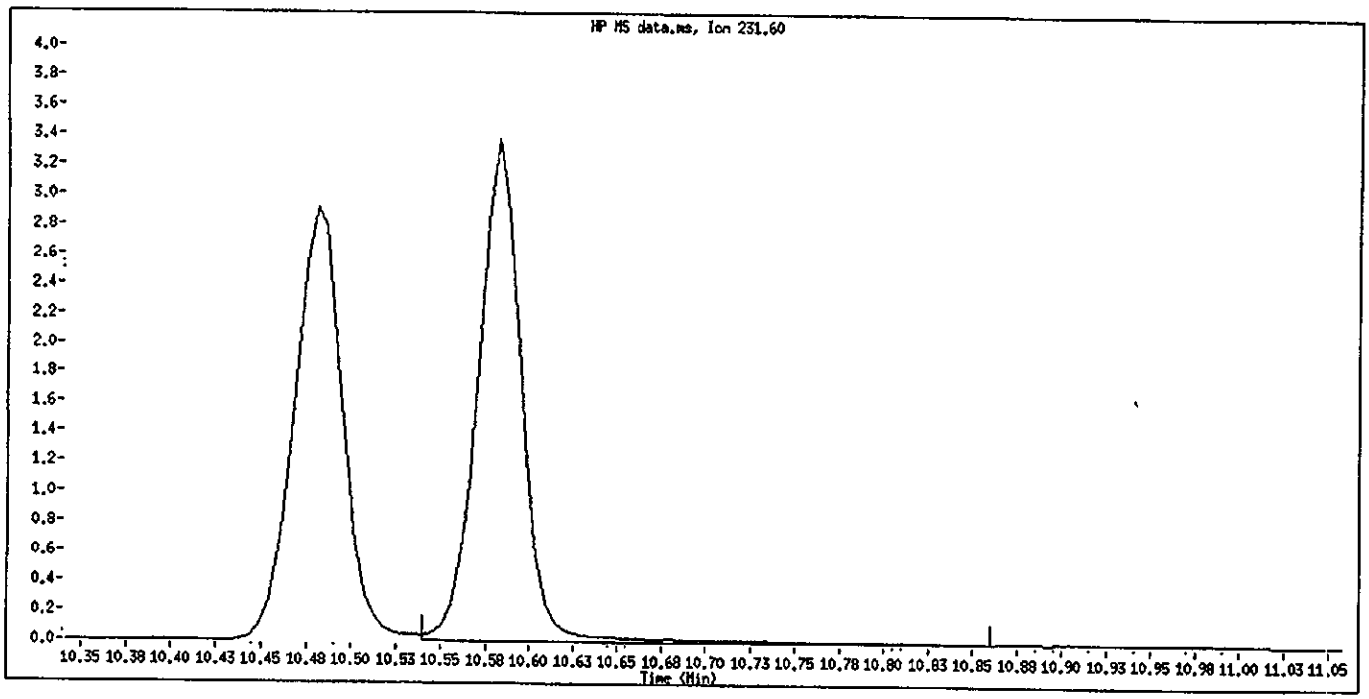
Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

670 260

Data File Name: S0824C04.D
Inj. Date and Time: 24-AUG-2000 17:12
Instrument ID: 71.i
Client ID: SSTD120
Compound Name: 2,3,4,6-Tetrachlorophenol
CAS #: 58-90-2
Report Date: 08/25/2000



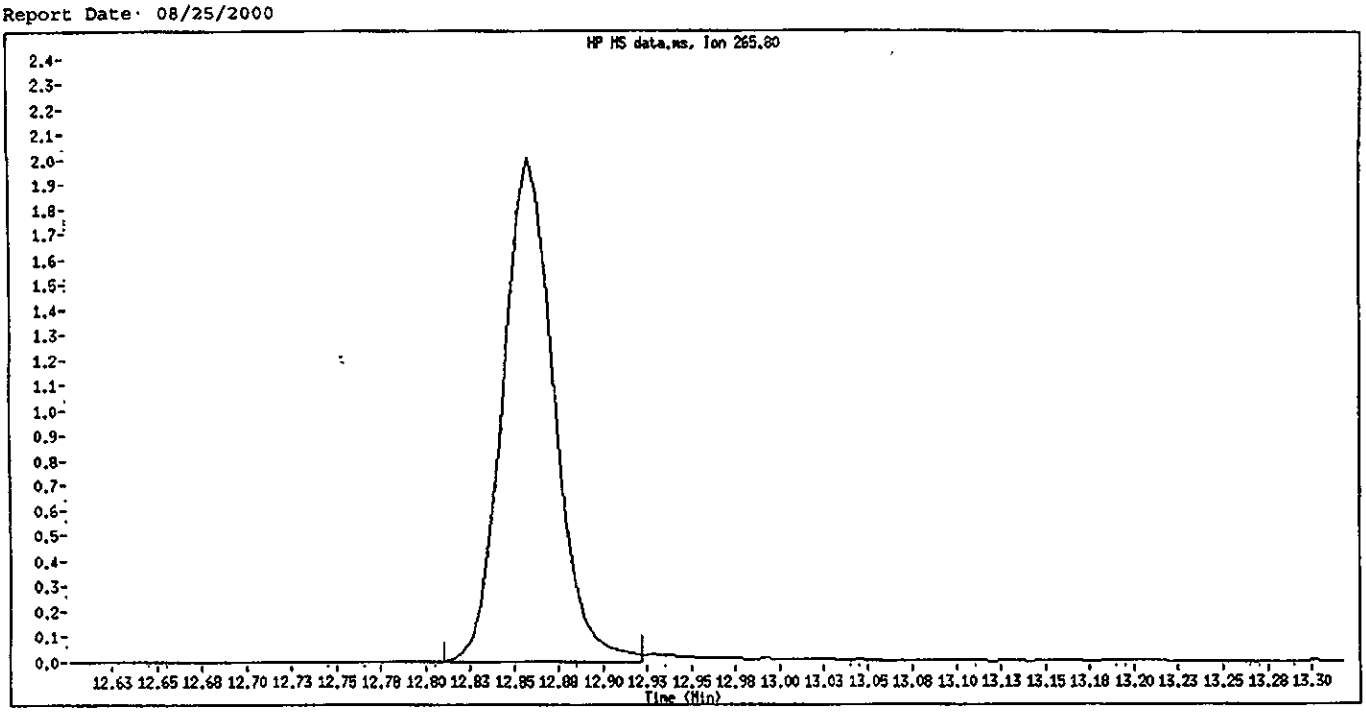
Original Integration



Manual Integration

Manually Integrated By. BachaS
Manual Integration Reason: Unknown

Data File Name: S0824C04.D
Inj. Date and Time. 24-AUG-2000 17:12
Instrument ID: 71 i
Client ID: SSTD120
Compound Name: Pentachlorophenol
CAS #: 87-86-5
Report Date: 08/25/2000



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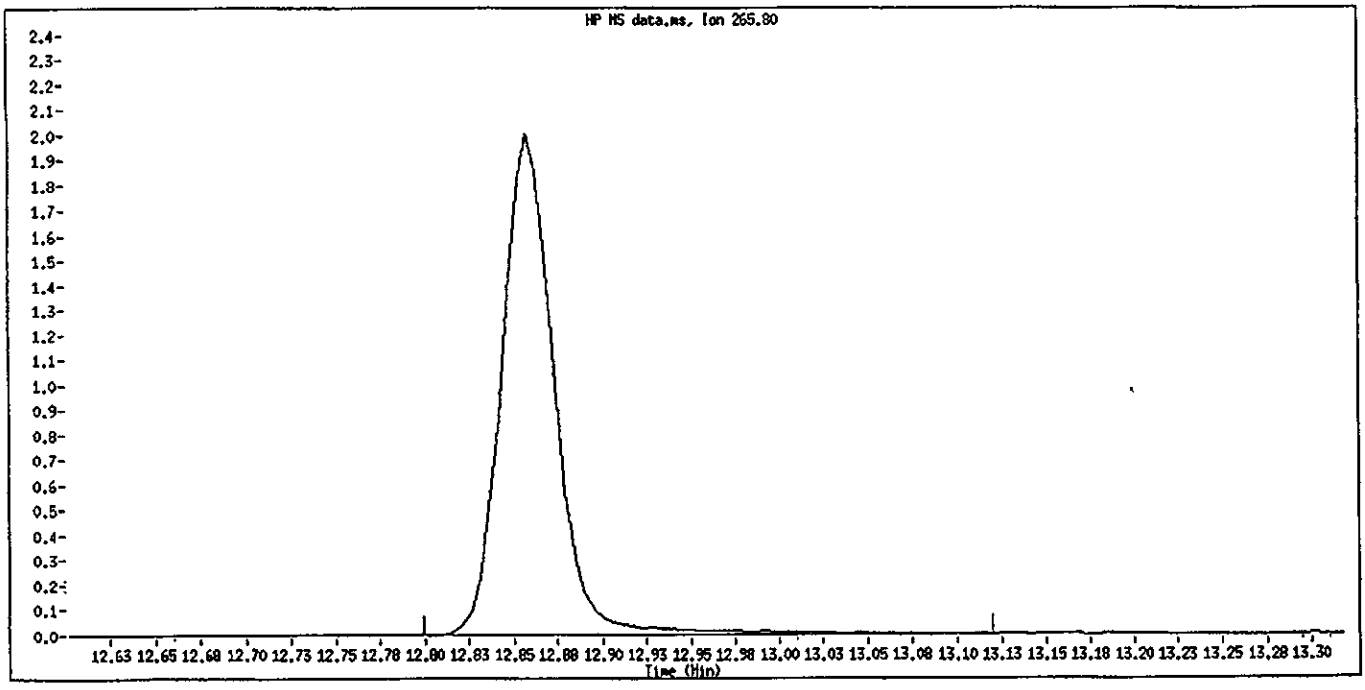
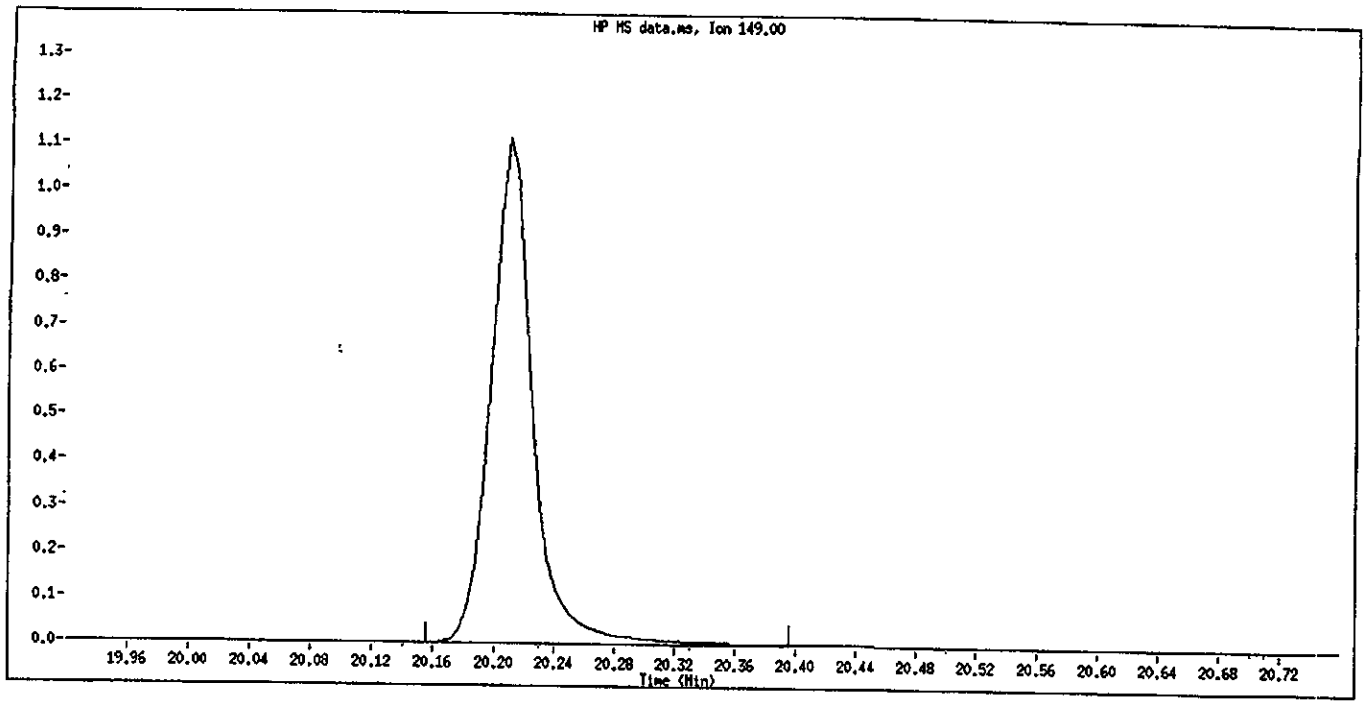


Manual Integration

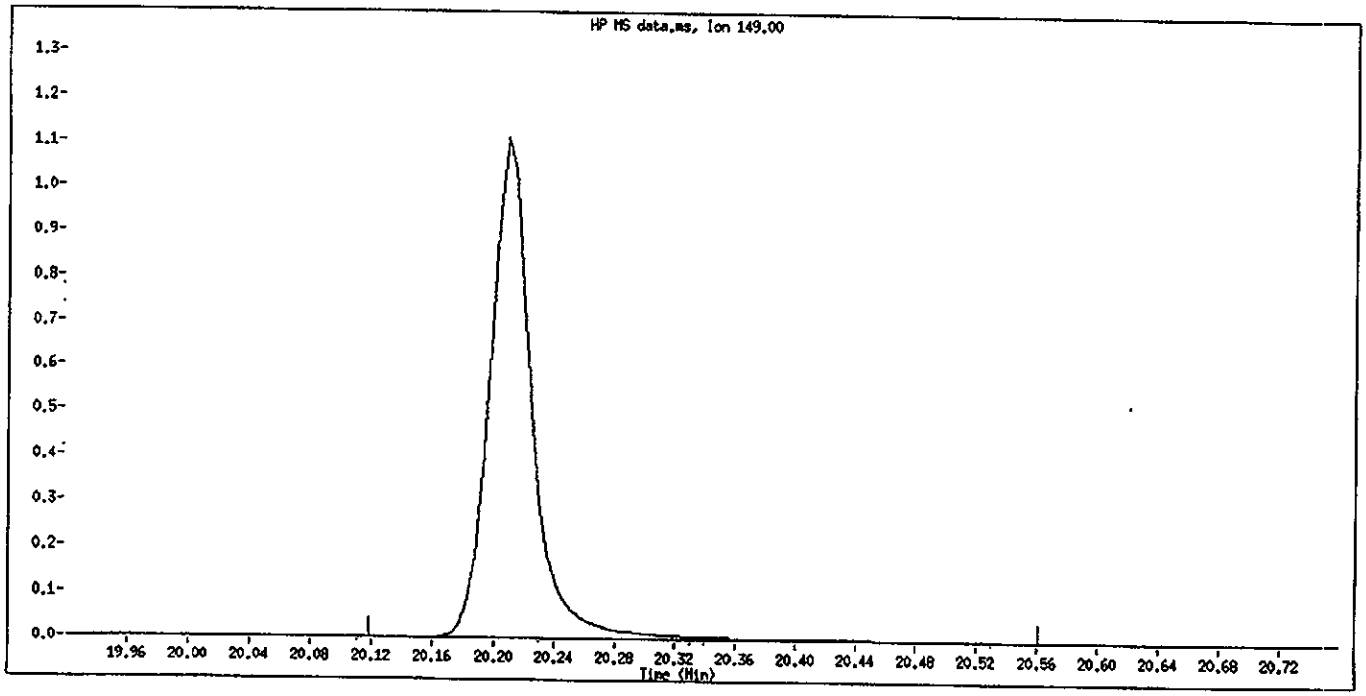
Manually Integrated By: BachaS
Manual Integration Reason: Unknown

670 262

Data File Name. S0824C04.D
Inj. Date and Time: 24-AUG-2000 17:12
Instrument ID: 71 i
Client ID: SSTD120
Compound Name: bis(2-ethylhexyl)Phthalate
CAS #· 117-81-7
Report Date. 08/25/2000



Original Integration

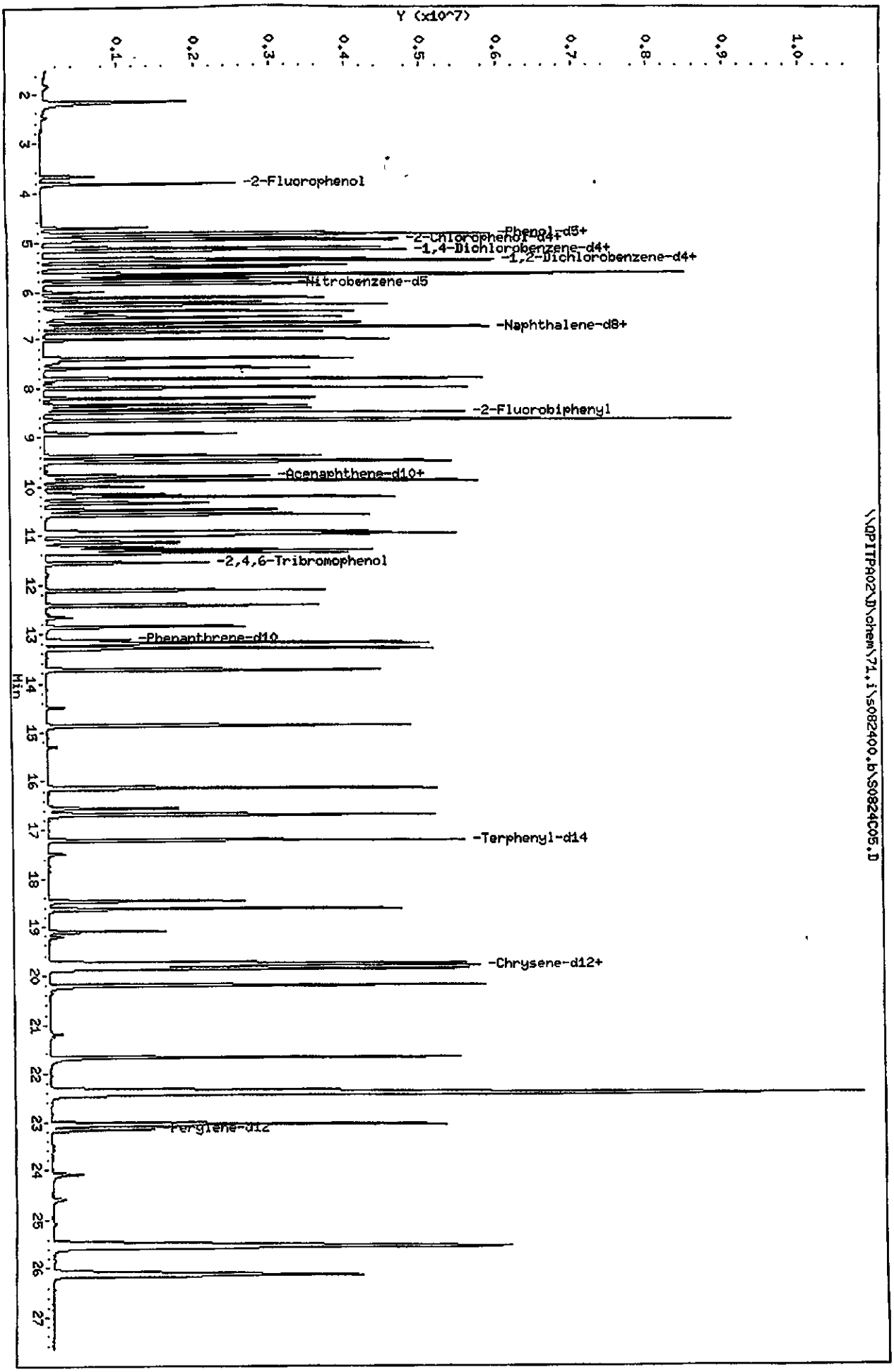


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824C05.D
Date : 24-AUG-2000 17:46
Client ID: SSTD160
Sample Info: sstd160(80 ug/ml) 194-188-7 8270/clp
Column phase: Hp5-MS

Instrument: 71.i
Operator: 045183
Column diameter: 0.25



Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824C05.D
Report Date: 25-Aug-2000 10:05

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824C05.D
Lab Smp Id: sstd50 Client Smp ID: SSTD160
Inj Date : 24-AUG-2000 17:46
Operator : 045183 Inst ID: 71.i
Smp Info : sstd160(80 ug/ml) 194-188-7 8270/clp
Misc Info : sstd50,s082400.b,8270clp.m,1-8270l.sub,1,5
Comment :
Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
Meth Date : 25-Aug-2000 10:05 bachas Quant Type: ISTD
Cal Date : 24-AUG-2000 17:46 Cal File: S0824C05.D
Als bottle: 99 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-8270l.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	5.160	5.160	(1.000)	296008	40.0000	
* 2 Naphthalene-d8	136	6 720	6.720	(1.000)	1094270	40.0000	
* 3 Acenaphthene-d10	164	9 797	9.797	(1.000)	621902	40.0000	
* 4 Phenanthrene-d10	188	13.131	13 131	(1.000)	1093221	40.0000	
* 5 Chrysene-d12	240	19.798	19.798	(1.000)	1396480	40.0000	
* 6 Perylene-d12	264	23 163	23.163	(1.000)	1169320	40.0000	
13 N-Nitrosodimethylamine	74	2.148	2.148	(0.416)	974451	160.000	154.70(M)
10 Pyridine	79	2.137	2.137	(0.414)	1589121	160 000	151.62(M)
19 Methyl methanesulfonate	80	3 670	3 670	(0.711)	463517	160.000	152.70
22 Aniline	93	4.856	4.856	(0 941)	1950808	160.000	150.96
23 Phenol	94	4.845	4.845	(0.939)	2061209	160.000	154.76
24 bis(2-Chloroethyl)ether	93	4.931	4.931	(0.955)	1555472	160.000	154.48
25 2-Chlorophenol	128	4.973	4.973	(0.964)	1522100	160.000	157.72
27 1,3-Dichlorobenzene	146	5.123	5.123	(0.993)	1611934	160.000	152.81
28 1,4-Dichlorobenzene	146	5.176	5.176	(1.003)	1638556	160.000	152.50
29 1,2-Dichlorobenzene	146	5 390	5.390	(1.045)	1515358	160.000	152.13
30 Benzyl Alcohol	108	5.342	5.342	(1.035)	1092389	160.000	160.84(AM)
31 2-Methylphenol	108	5.486	5.486	(1.063)	1397620	160.000	159.30
32 2,2'-oxybis(1-Chloropropane)	45	5.524	5.524	(1.070)	1766370	160.000	152.52
33 N-Nitroso-di-n-propylamine	70	5.695	5.695	(1.104)	1063461	160.000	157.23
35 4-Methylphenol	108	5.652	5.652	(1.095)	1455031	160.000	155 25
38 Hexachloroethane	117	5 737	5.737	(1.112)	603563	160.000	155.75
39 Nitrobenzene	77	5.855	5.855	(0.871)	1556900	160.000	153.04
44 Isophorone	82	6.138	6.138	(0.913)	2732142	160.000	154.01
45 2-Nitrophenol	139	6.245	6.245	(0.929)	803691	160.000	189.60(A)
46 2,4-Dimethylphenol	107	6.288	6.288	(0.936)	1447186	160.000	158.42

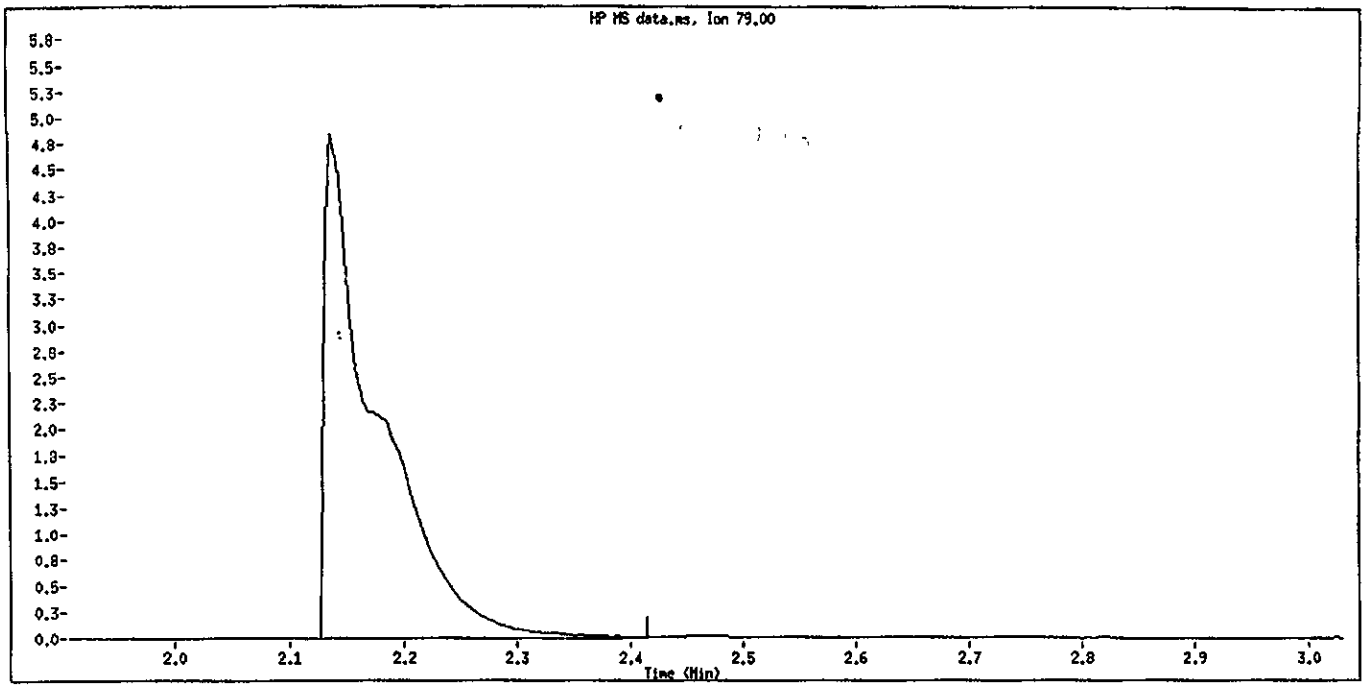
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.421	6.421	(0.955)	1774246	160.000	155.78
51 2,4-Dichlorophenol	162	6 544	6 544	(0.974)	1253121	160.000	163 35(A)
52 Benzoic Acid	122	6.496	6.496	(0.967)	800337	160 000	246.57(AM)
53 1,2,4-Trichlorobenzene	180	6.667	6.667	(0.992)	1373773	160.000	160.26(A)
54 Naphthalene	128	6.752	6.752	(1.005)	4189059	160.000	147.70
55 4-Chloroaniline	127	6.854	6.854	(1.020)	1802192	160 000	158.80
59 Hexachlorobutadiene	225	7.004	7.004	(1.042)	864516	160.000	164.29(A)
62 4-Chloro-3-Methylphenol	107	7.591	7 591	(1.130)	1309049	160.000	165.09(A)
65 2-Methylnaphthalene	142	7.805	7.805	(1.161)	2897420	160.000	156 29
66 1-Methylnaphthalene	142	7.992	7.992	(1.189)	2701777	160.000	154.84
67 Hexachlorocyclopentadiene	237	8.195	8.195	(0 836)	983870	160.000	189.32(A)
69 2,4,6-Trichlorophenol	196	8.344	8.344	(0.852)	934422	160.000	172.44(A)
70 2,4,5-Trichlorophenol	196	8 414	8.414	(0 859)	1035942	160.000	169.35(AM)
73 2-Chloronaphthalene	162	8.670	8 670	(0.885)	2705121	160.000	152.64
77 2-Nitroaniline	65	8.932	8.932	(0.912)	846415	160.000	178.56(A)
80 Dimethylphthalate	163	9.381	9.381	(0.957)	3160665	160.000	160.38(A)
82 2,6-Dinitrotoluene	165	9.509	9.509	(0.971)	713449	160.000	180.15(A)
83 Acenaphthylene	152	9.482	9.482	(0.968)	4267838	160.000	153.85
85 3-Nitroaniline	138	9.781	9.781	(0.998)	863439	160.000	176.27(A)
86 Acenaphthene	153	9.872	9.872	(1.008)	2765306	160.000	155.46
87 2,4-Dinitrophenol	184	9.995	9.995	(1.020)	377413	160.000	261 90(A)
89 4-Nitrophenol	109	10.155	10 155	(1.037)	464221	160.000	184 82(A)
90 Dibenzofuran	168	10.209	10.209	(1 042)	3874412	160.000	156.41
91 2,4-Dinitrotoluene	165	10.342	10.342	(1.056)	953577	160.000	184.89(A)
95 2,3,5,6-Tetrachlorophenol	232	10.481	10.481	(1.070)	835126	160.000	187.53(A)
92 2,3,4,6-Tetrachlorophenol	232	10.588	10.588	(1 081)	901434	160.000	181.03(AM)
96 2-Naphthylamine	143	10.567	10.567	(1 079)	1532114	160.000	136 40
97 Diethylphthalate	149	10.930	10 930	(1.116)	3187945	160 000	164.26(A)
98 Fluorene	166	10.967	10.967	(1.119)	3279670	160.000	160.93(A)
99 4-Chlorophenyl-phenylether	204	11.005	11.005	(1 123)	1664966	160.000	167.17(A)
100 4-Nitroaniline	138	11.149	11 149	(1.138)	877686	160.000	177.34(A)
102 4,6-Dinitro-2-methylphenol	198	11.245	11.245	(0 856)	525531	160.000	239.67(A)
103 N-Nitrosodiphenylamine (1)	169	11 304	11.304	(0 861)	2385436	160.000	161.41(A)
104 1,2-Diphenylhydrazine	77	11.363	11.363	(0 865)	3134459	160.000	149.66
112 4-Bromophenyl-phenylether	248	12.116	12.116	(0.923)	984291	160 000	175.31(A)
113 Hexachlorobenzene	284	12.426	12 426	(0.946)	1095315	160.000	176.85(A)
117 Pentachlorophenol	266	12.858	12.858	(0.979)	677045	160 000	209.12(AM)
122 Phenanthrene	178	13.195	13.195	(1.005)	4467980	160.000	159.40
123 Anthracene	178	13.302	13 302	(1.013)	4658187	160.000	161.77(A)
126 Carbazole	167	13.740	13.740	(1.046)	4468078	160.000	165.31(A)
130 Di-n-Butylphthalate	149	14.878	14.878	(1.133)	5159353	160.000	172.67(A)
135 Fluoranthene	202	16.144	16.144	(1 229)	5154954	160.000	173 72(A)
136 Benzidine	184	16.555	16.555	(0.836)	1712336	160.000	192.45(A)
137 Pyrene	202	16.694	16 694	(0.843)	5341318	160.000	152.00
144 Butylbenzylphthalate	149	18.628	18.628	(0.941)	2404794	160.000	188.28(A)
149 3,3'-Dichlorobenzidine	252	19.803	19.803	(1.000)	2434858	160.000	174.91(A)
150 Benzo(a)Anthracene	228	19.761	19.761	(0.998)	5578511	160.000	163.49(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
151 Chrysene	228	19.873	19.873	(1.004)	5206917	160 000	158.18
153 bis(2-ethylhexyl)Phthalate	149	20.204	20.204	(1.021)	3379673	160.000	188.98(AM)
155 Di-n-octylphthalate	149	21.684	21.684	(0 936)	5747706	160 000	207.17(A)
157 Benzo(b)fluoranthene	252	22 384	22.384	(0.966)	7039254	160 000	196.58(A)
158 Benzo(k)fluoranthene	252	22.437	22.437	(0.969)	6933251	160.000	153.25
159 7,12-dimethylbenz(a)anthracen	256	22.432	22.432	(0.968)	3549769	160.000	176.76(A)
167 Benzo(a)pyrene	252	23.062	23.062	(0 996)	5850350	160.000	174.45(A)
169 Indeno(1,2,3-cd)pyrene	276	25.525	25.525	(1.102)	8427557	160.000	183.21(A)
170 Dibenz(a,h)anthracene	278	25 567	25.567	(1.104)	7651081	160.000	185.10(A)
171 Benzo(g,h,i)perylene	276	26.150	26.150	(1.129)	6809822	160 000	179.84(A)
$ 172 Nitrobenzene-d5	82	5.834	5.834	(0.868)	1524726	160 000	156.87
$ 173 2-Fluorobiphenyl	172	8.494	8.494	(0.867)	3126164	160 000	153.48
$ 174 Terphenyl-d14	244	17.218	17.218	(0 870)	4349943	160.000	159.33
$ 175 Phenol-d5	99	4.829	4.829	(0.936)	1859333	160.000	155.70
$ 176 2-Fluorophenol	112	3 814	3 814	(0.739)	1478343	160.000	156.47
$ 177 2,4,6-Tribromophenol	330	11.560	11.560	(0.880)	507143	160.000	195.21(A)
$ 178 2-Chlorophenol-d4	132	4.957	4.957	(0.961)	1361849	160.000	156.41
$ 179 1,2-Dichlorobenzene-d4	152	5.374	5 374	(1.041)	1029497	160.000	154 57

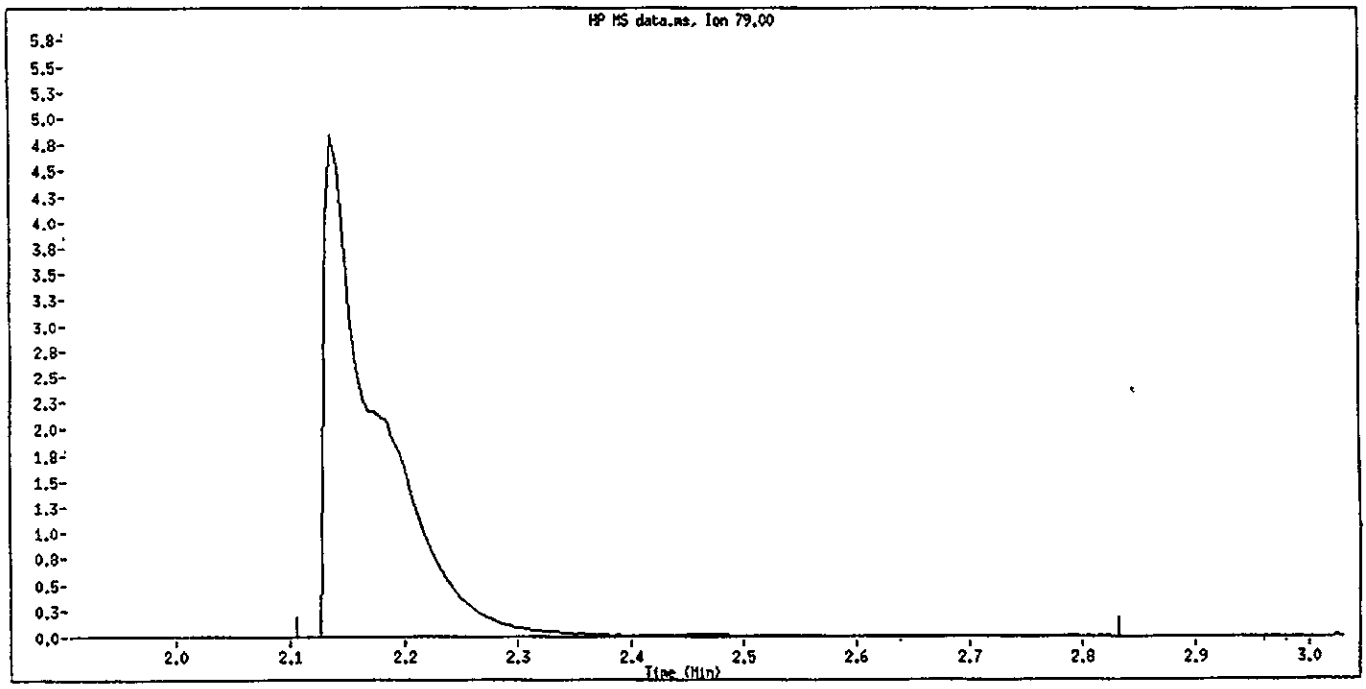
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File Name: S0824C05.D
Inj. Date and Time: 24-AUG-2000 17:46
Instrument ID 71.i
Client ID: SSTD160
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 08/25/2000



Original Integration

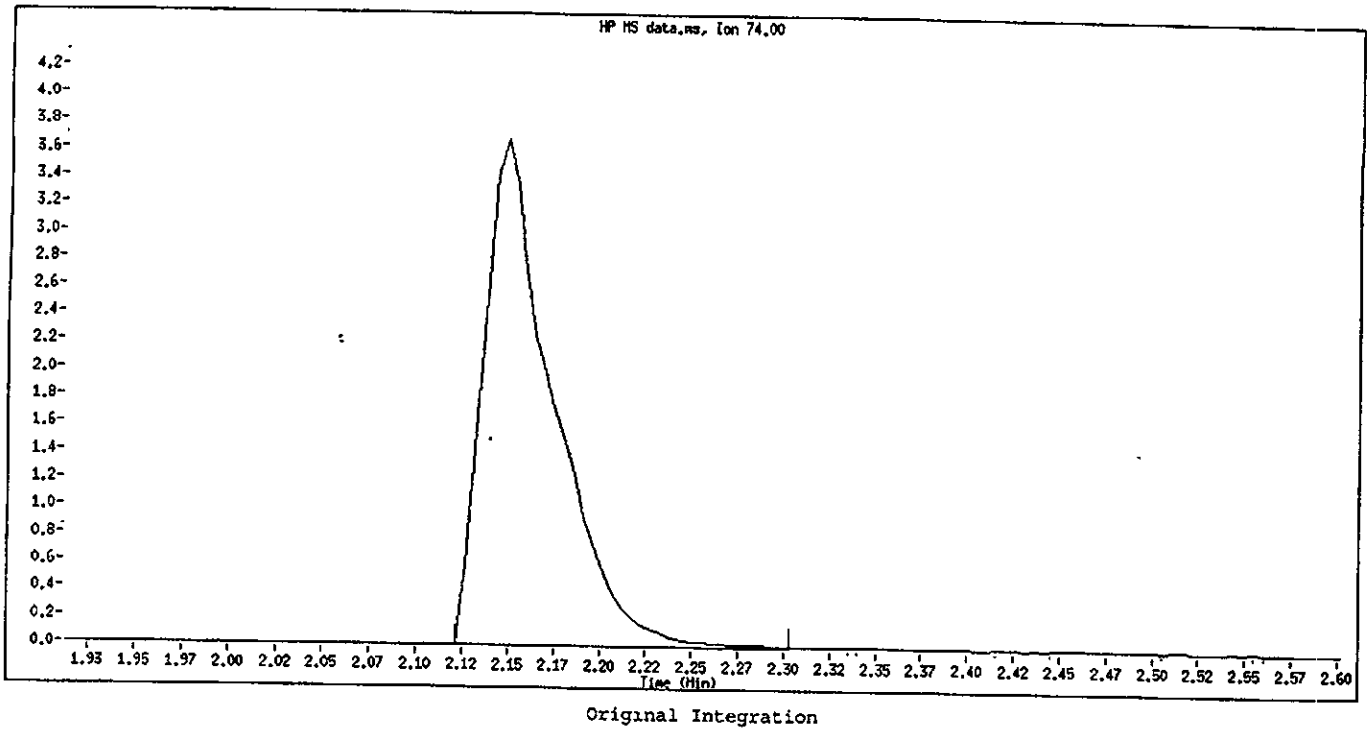


Manual Integration

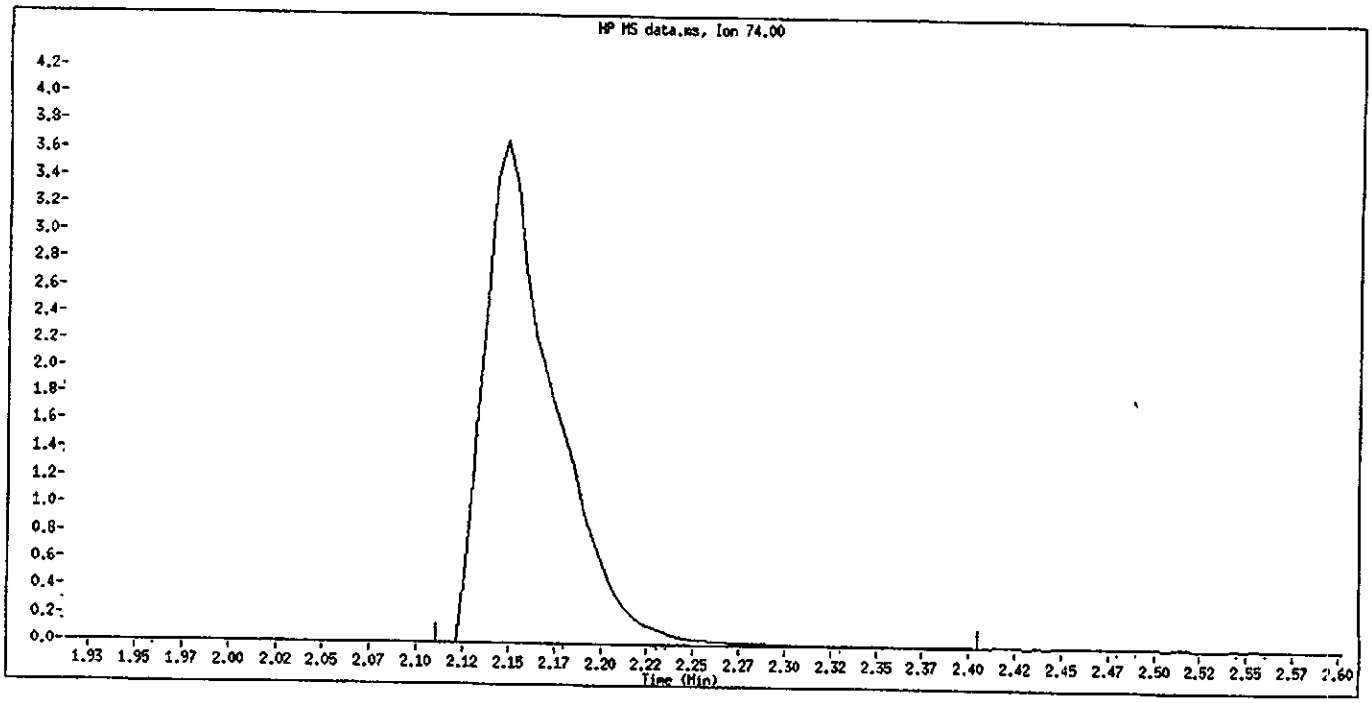
Manually Integrated By: BachaS
Manual Integration Reason: Unknown

670 266

Data File Name S0824C0S D
Inj Date and Time: 24-AUG-2000 17:46
Instrument ID: 71.i
Client ID: SSTD160
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 08/25/2000



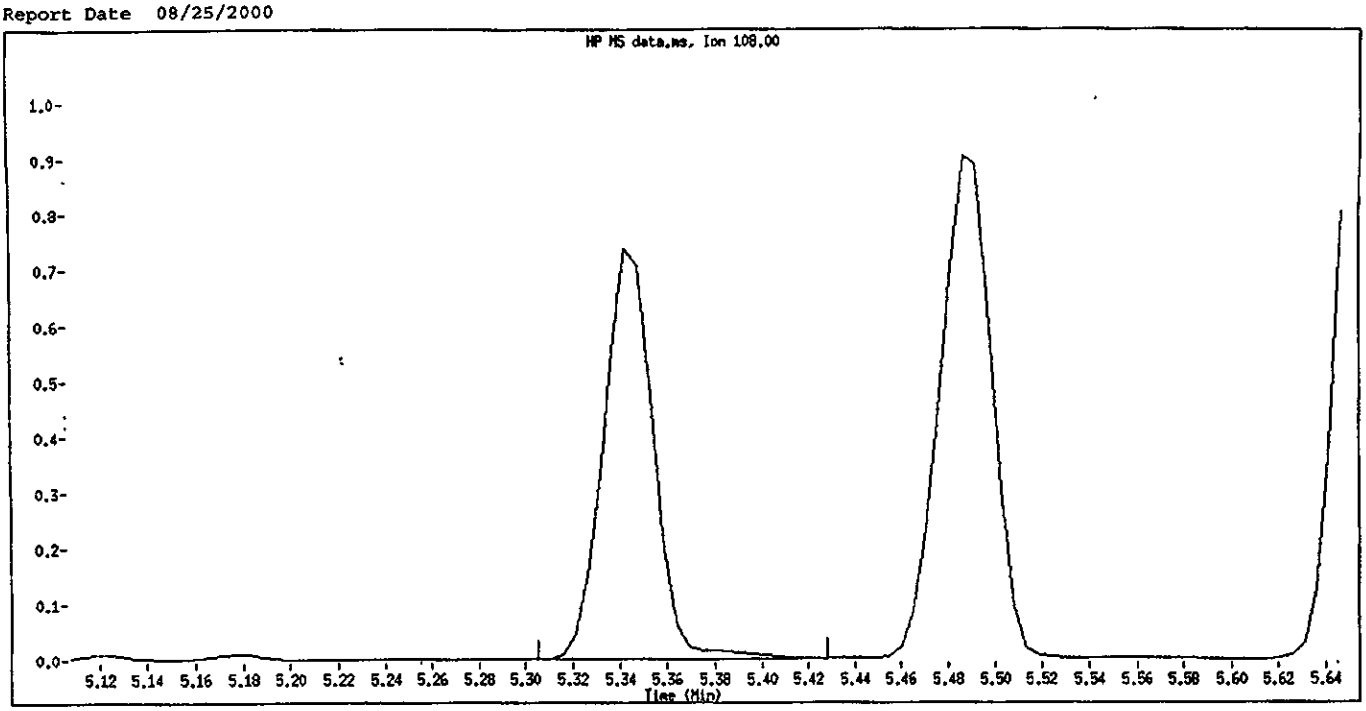
Original Integration



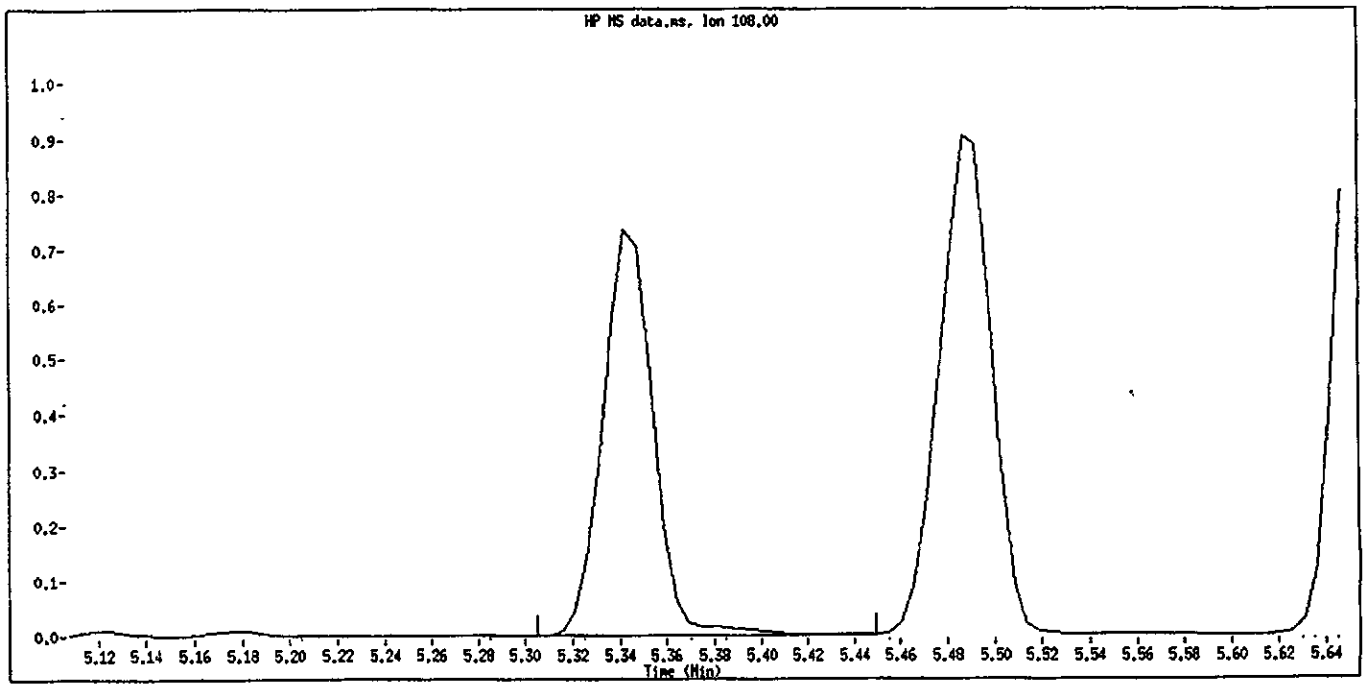
Manual Integration

Manually Integrated By BachaS
Manual Integration Reason. Unknown

Data File Name: S0824C05.D
Inj. Date and Time: 24-AUG-2000 17.46
Instrument ID: 71 i
Client ID: SSTD160
Compound Name: Benzyl Alcohol
CAS #: 100-51-6
Report Date 08/25/2000



Original Integration

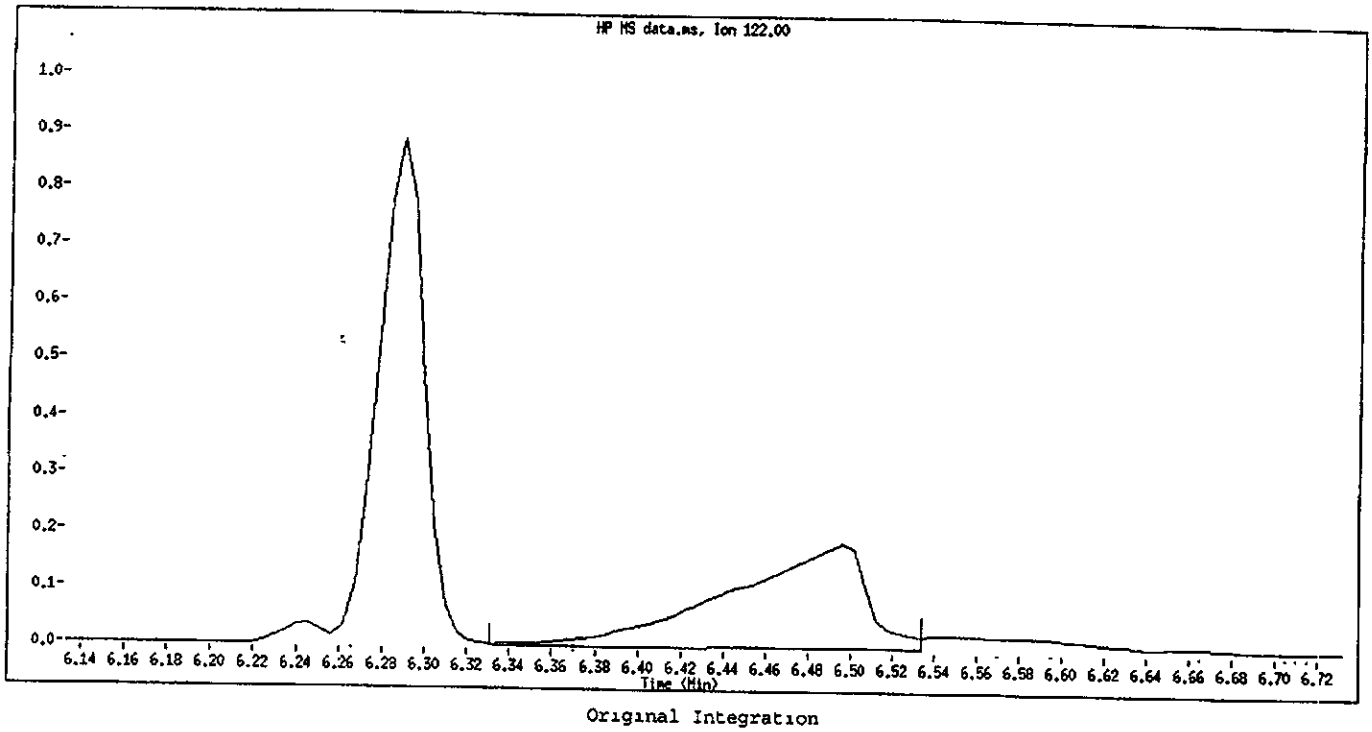


Manual Integration

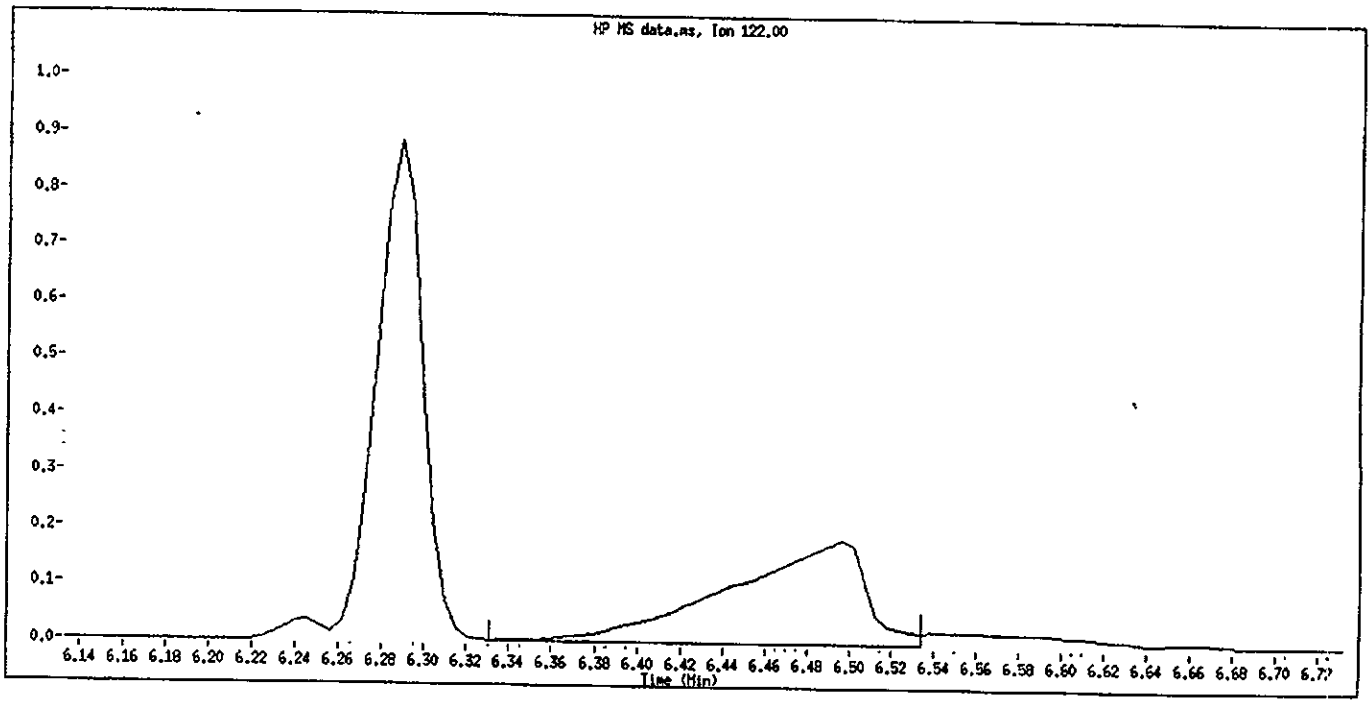
Manually Integrated By: BachaS
Manual Integration Reason: Unknown

670 270

Data File Name: S0824C05.D
Inj. Date and Time 24-AUG-2000 17:46
Instrument ID: 71 i
Client ID. SSTD160
Compound Name. Benzoic Acid
CAS #: 65-85-0
Report Date: 08/25/2000



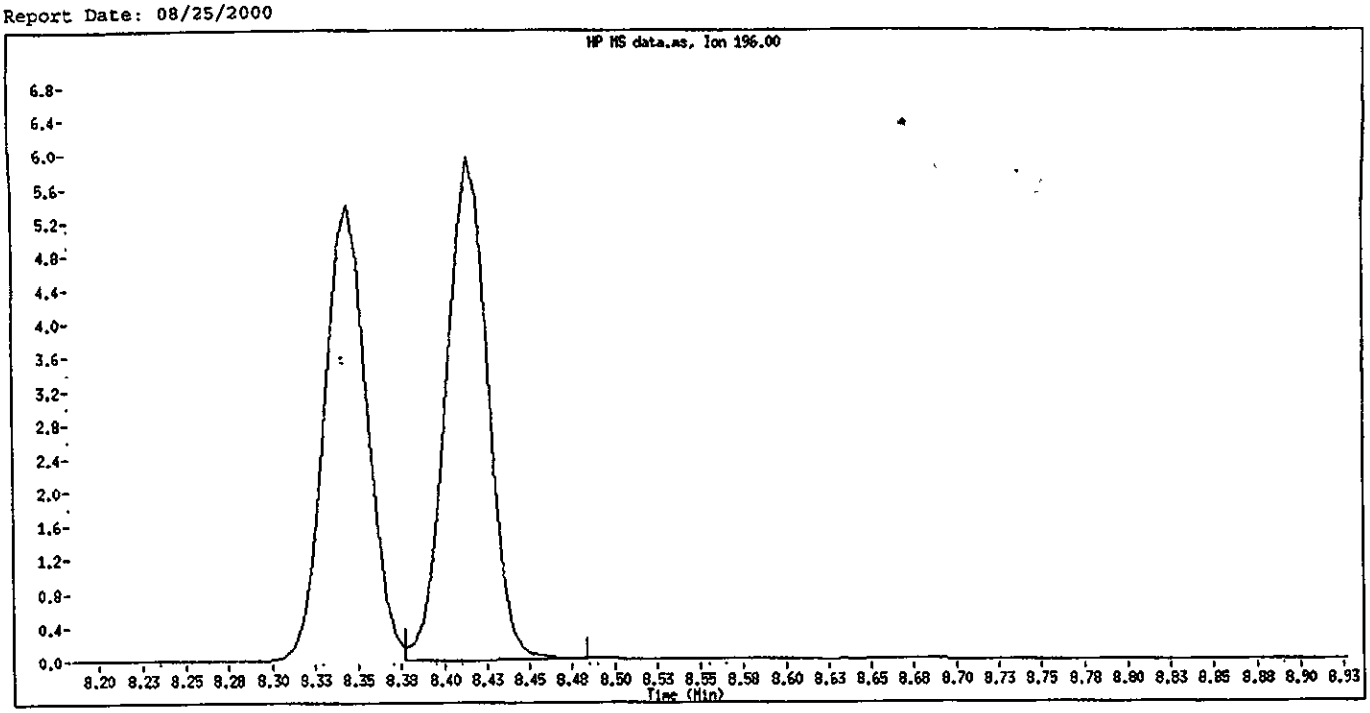
Original Integration



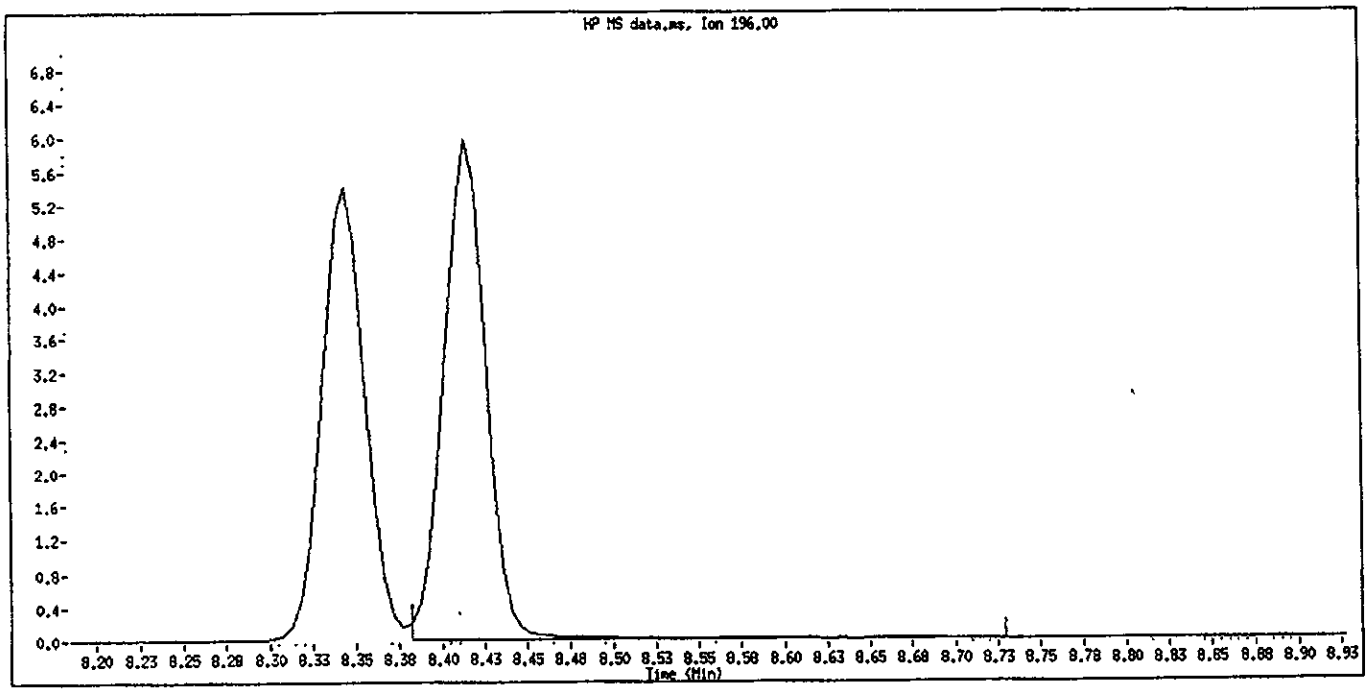
Manual Integration

Manually Integrated By BachaS
Manual Integration Reason. Poor Chromatography

Data File Name: S0824C05.D
Inj. Date and Time. 24-AUG-2000 17.46
Instrument ID: 71.i
Client ID: SSTD160
Compound Name· 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 08/25/2000



Original Integration

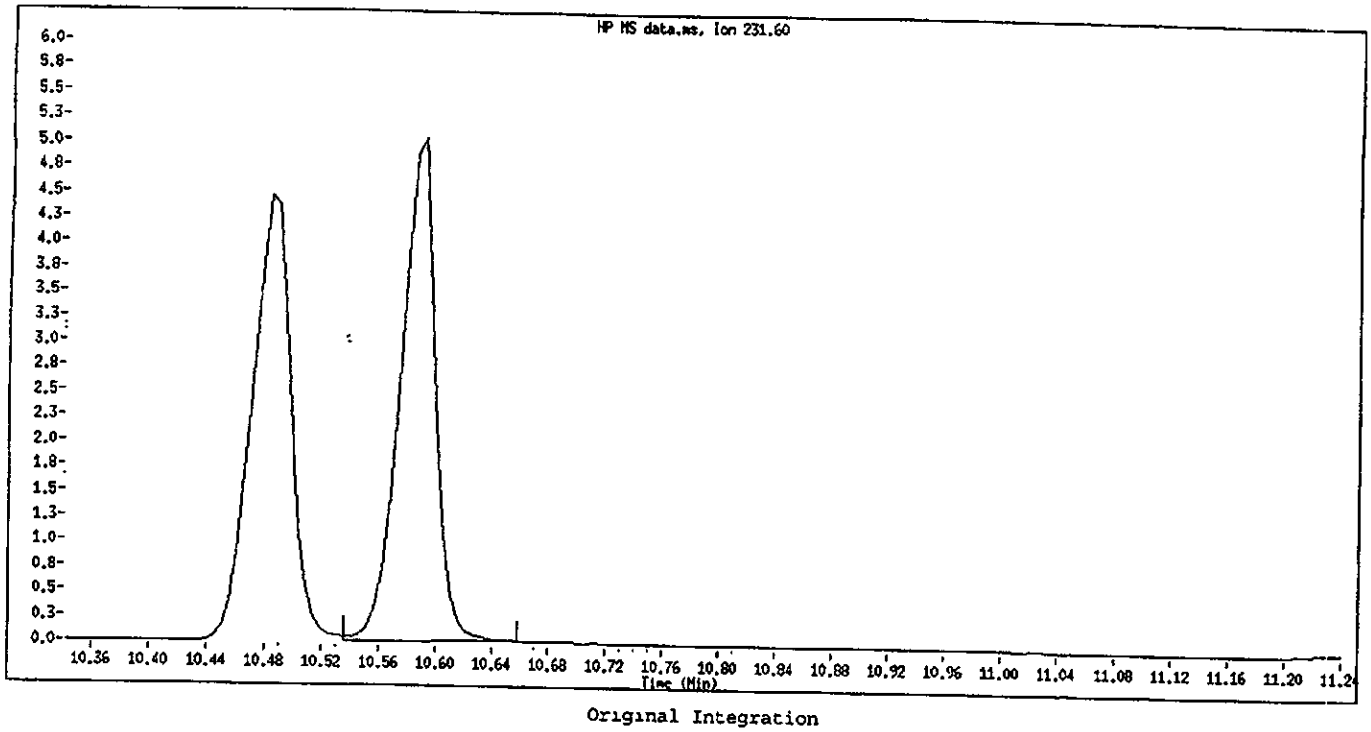


Manual Integration

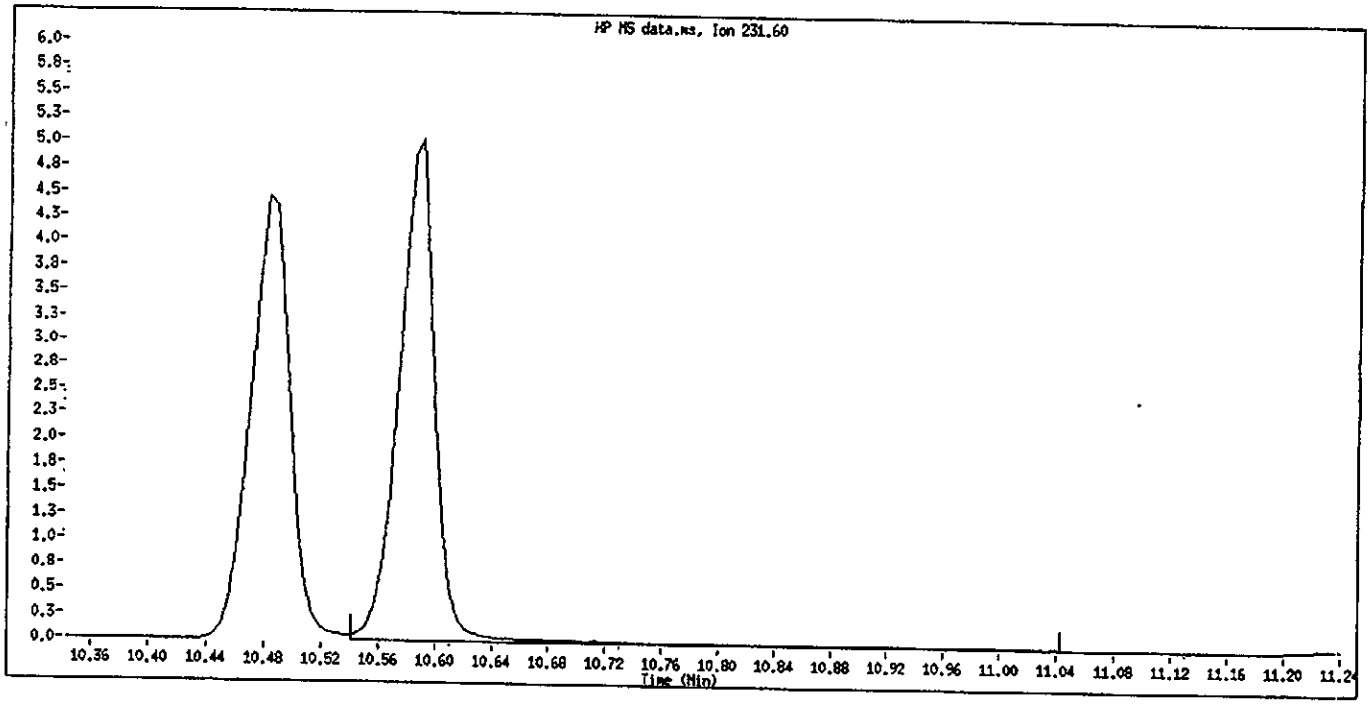
Manually Integrated By· BachaS
Manual Integration Reason· Unknown

670 272

Data File Name: S0824C05.D
Inj. Date and Time: 24-AUG-2000 17:46
Instrument ID: 71.i
Client ID: SSTD160
Compound Name. 2,3,4,6-Tetrachlorophenol
CAS #: 58-90-2
Report Date: 08/25/2000



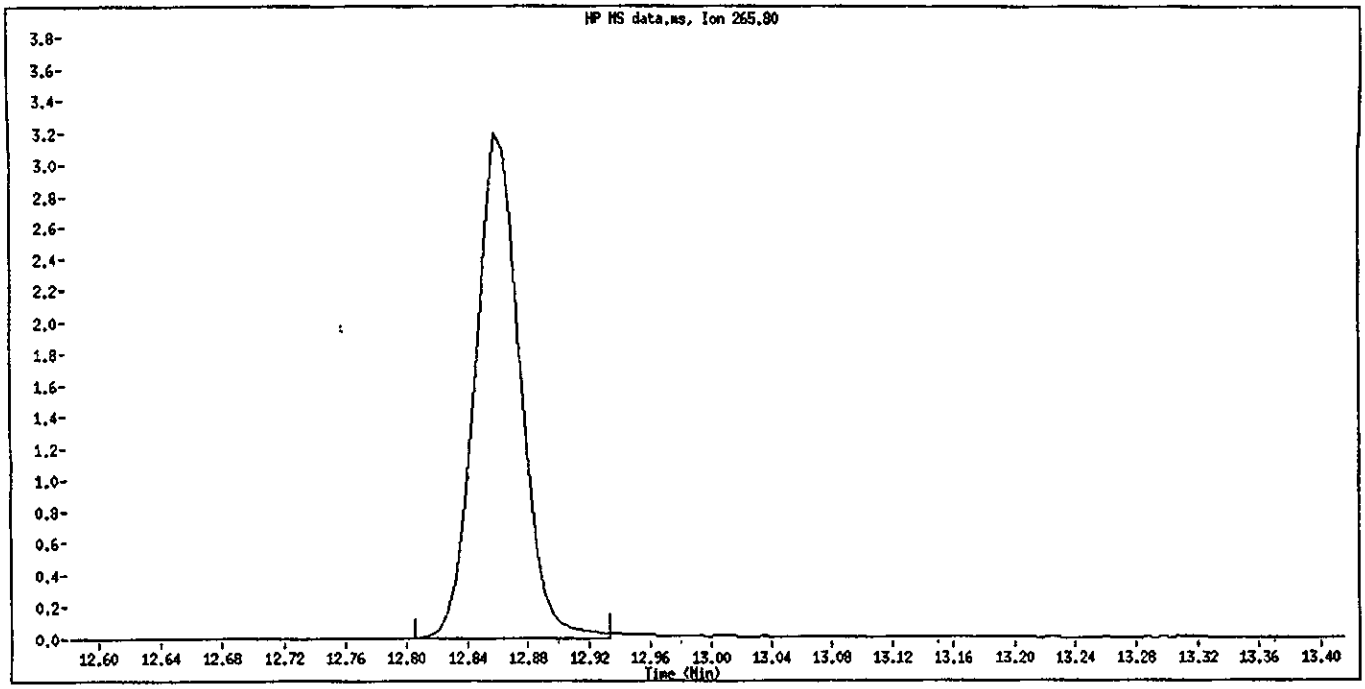
Original Integration



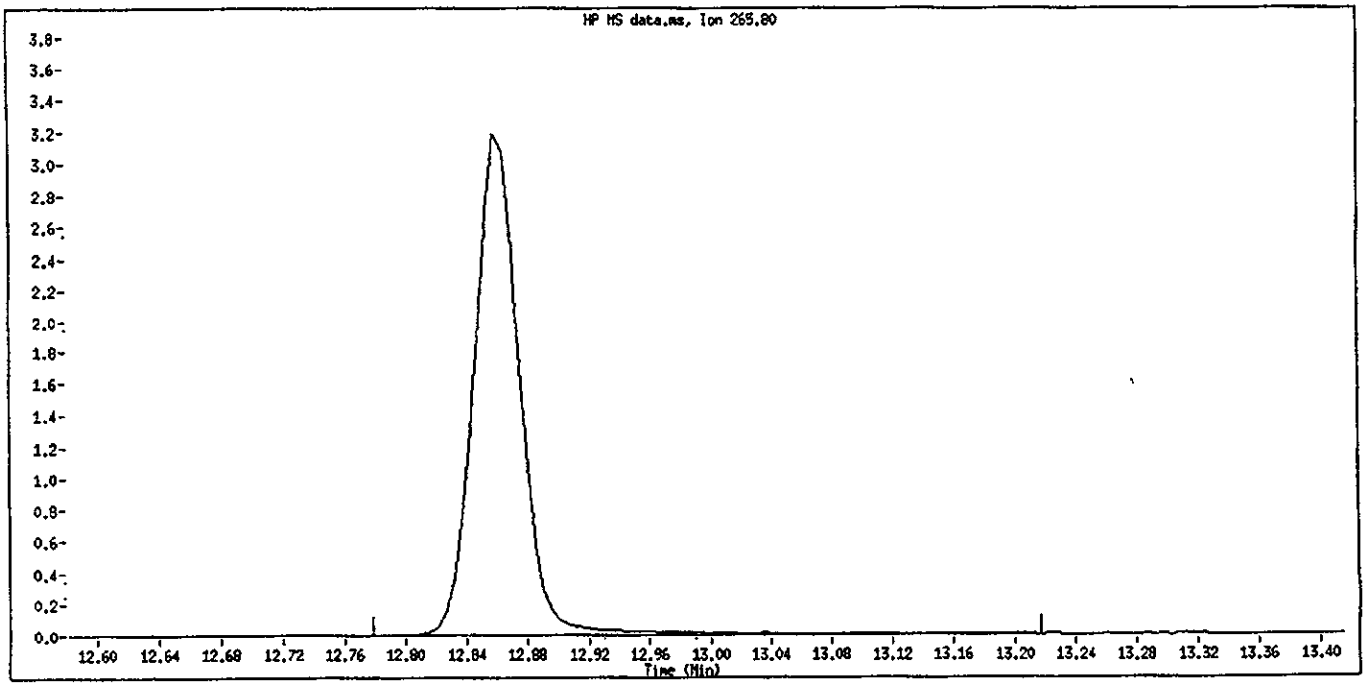
Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason. Unknown

Data File Name S0824C05.D
Inj. Date and Time: 24-AUG-2000 17:46
Instrument ID 71 i
Client ID. SSTD160
Compound Name: Pentachlorophenol
CAS # 87-86-5
Report Date: 08/25/2000



Original Integration

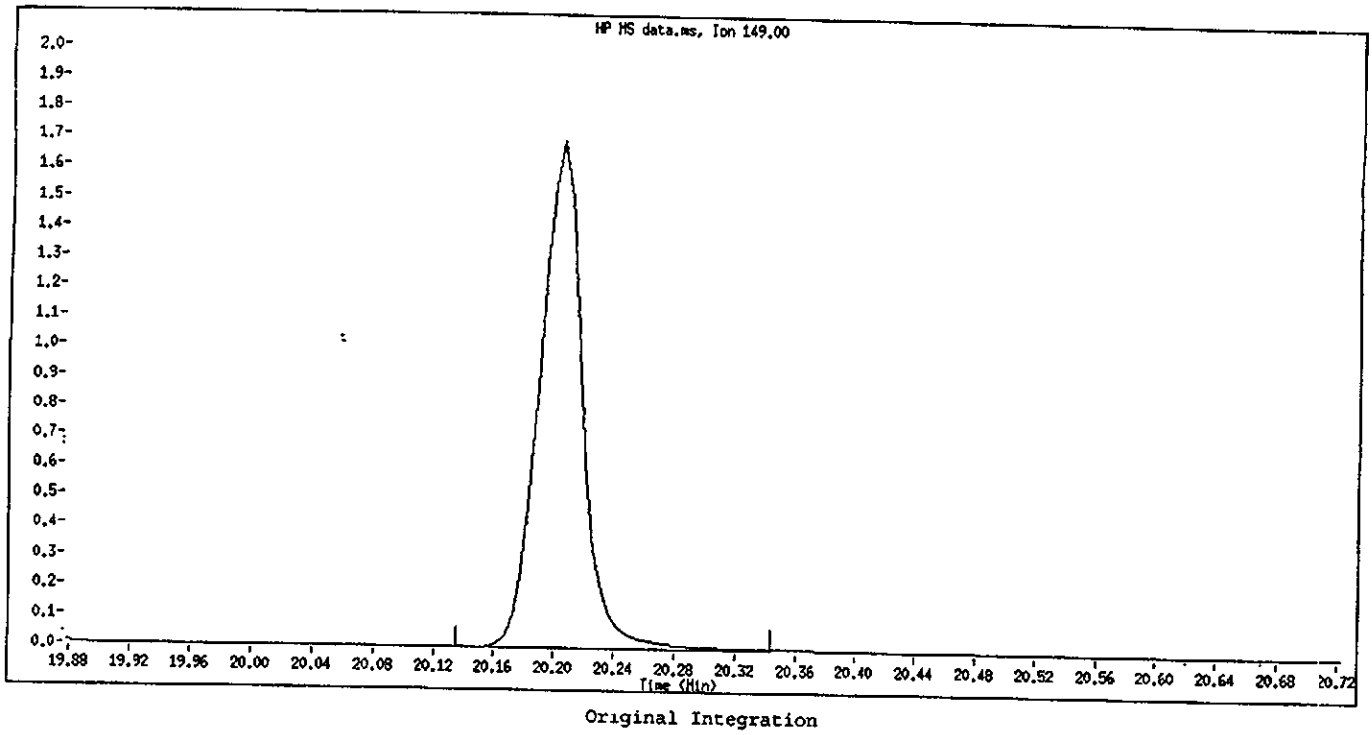


Manual Integration

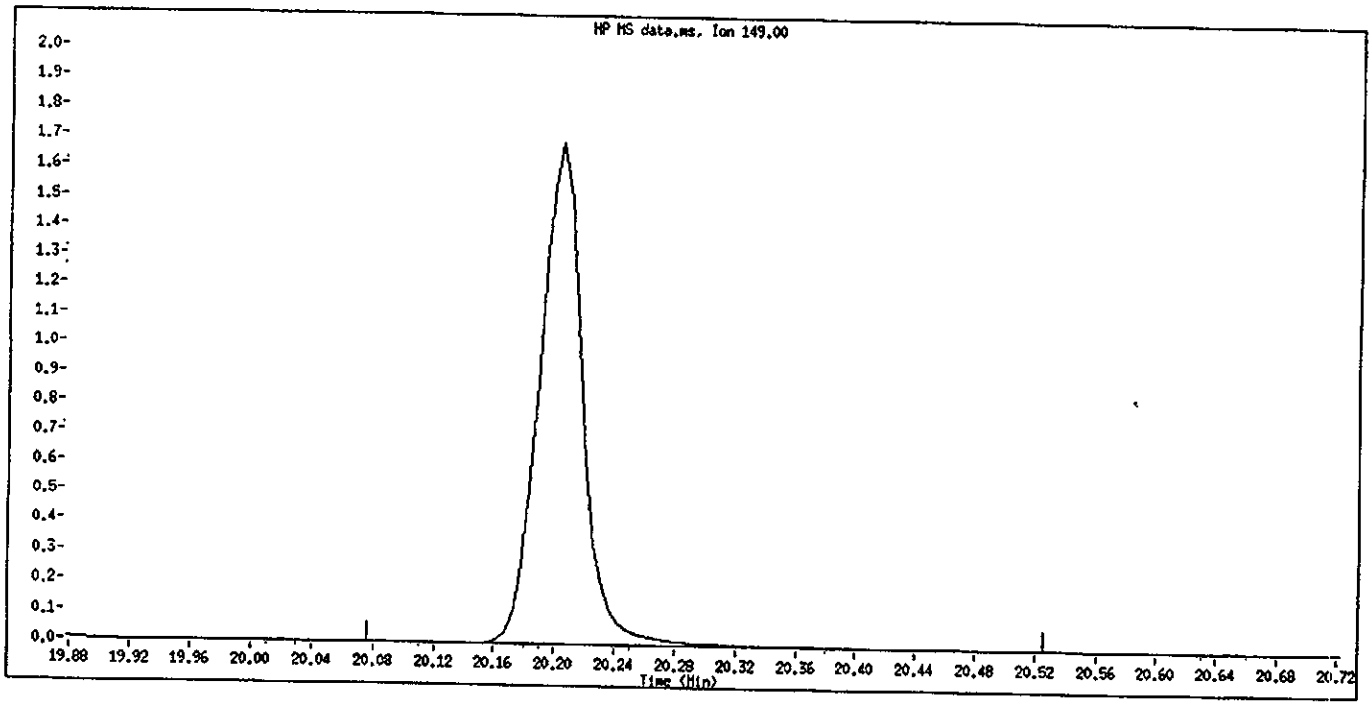
Manually Integrated By BachaS
Manual Integration Reason: Unknown

670 274

Data File Name: S0824C05.D
Inj Date and Time 24-AUG-2000 17:46
Instrument ID. 71.i
Client ID: SSTD160
Compound Name: bis(2-ethylhexyl)Phthalate
CAS #. 117-81-7
Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

GC/MS SEMIVOLATILE
QC DATA

Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823DFT.D

Date : 23-AUG-2000 19:17

Client ID: DFTPP02

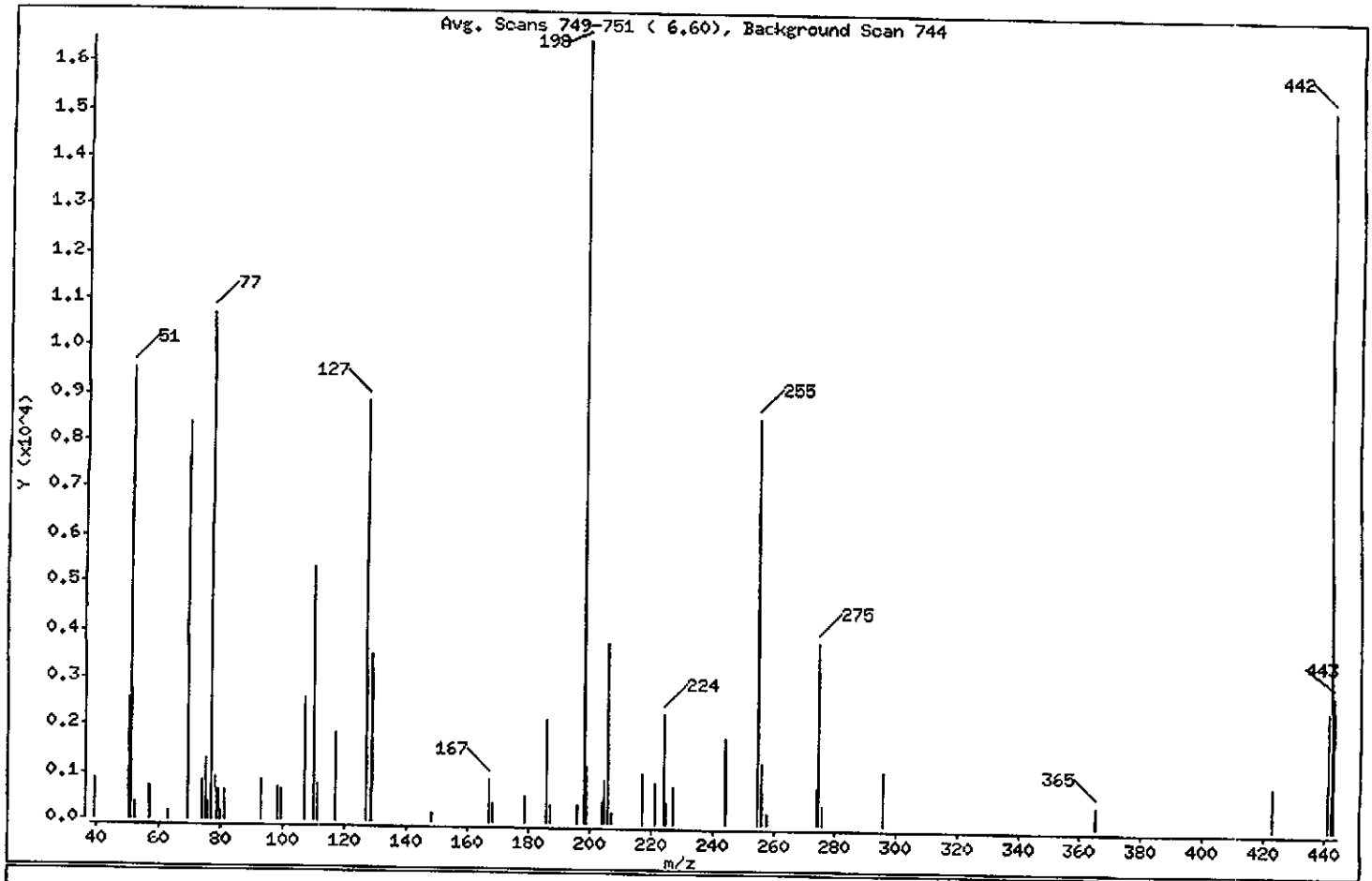
Instrument: 71.i

Sample Info: DFTPP050 (25ppb) 194-158-6

Operator: 045183

Column phase:
1 dftpp

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	57.74
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	50.87
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	53.83
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.27
275	10.00 - 30.00% of mass 198	23.17
365	Greater than 1.00% of mass 198	2.67
441	Present, but less than mass 443	15.06
442	Greater than 40.00% of mass 198	92.19
443	17.00 - 23.00% of mass 442	17.26 (18.72)

Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823DFT.D

Date : 23-AUG-2000 19:17

Client ID: DFTPP02

Instrument: 71.i

Sample Info: DFTPP050 (25ppb) 194-158-6

Operator: 045183

Column phase:

Column diameter: 2.00

Data File: S0823DFT.D

Spectrum: Avg. Scans 749-751 (6.60), Background Scan 744

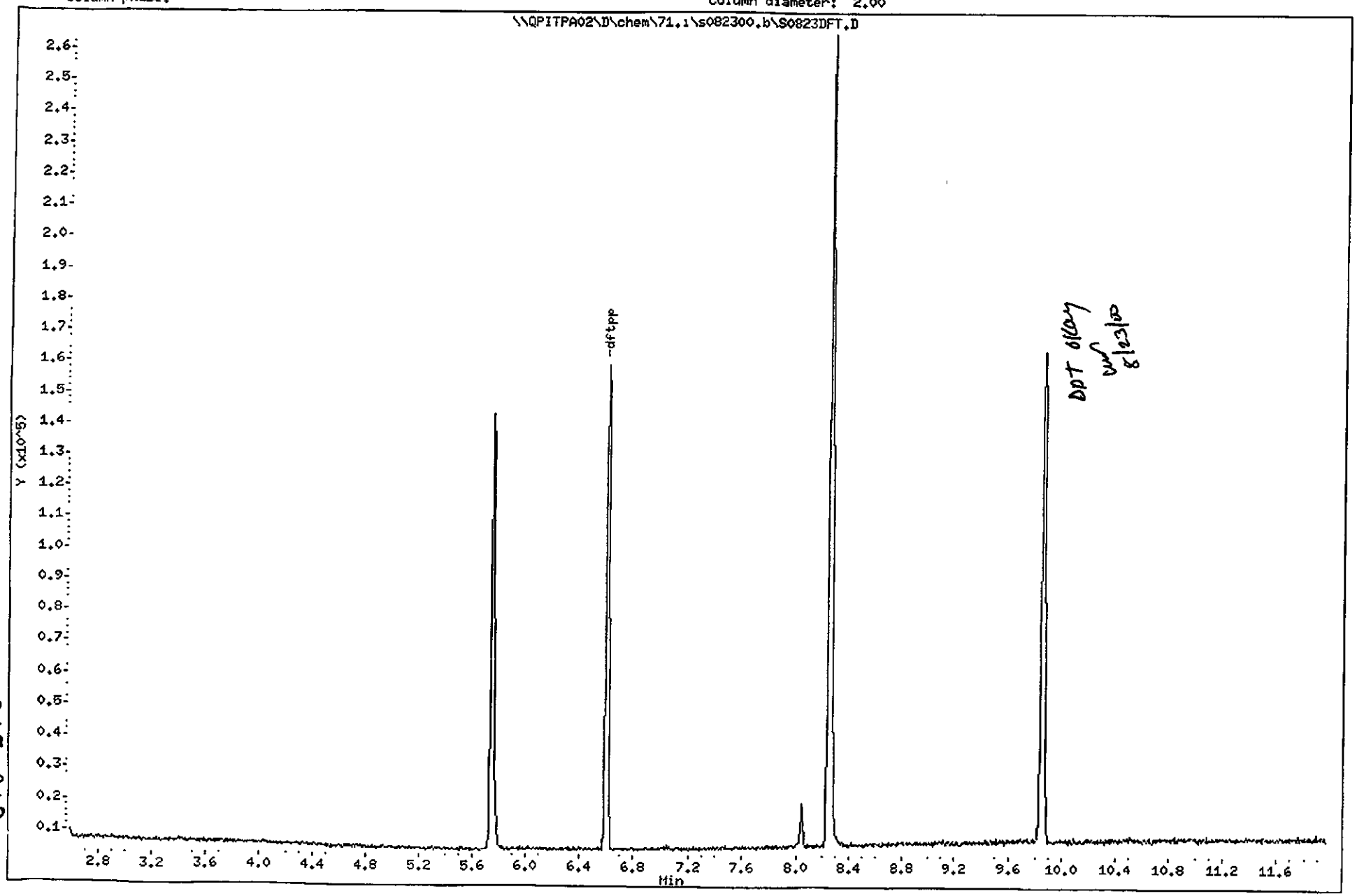
Location of Maximum: 198.00

Number of points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	876	93.00	877	187.00	387	256.00	1276
50.00	2583	98.00	722	196.00	373	258.00	211
51.00	9530	99.00	682	198.00	16504	274.00	785
52.00	383	107.00	2581	199.00	1200	275.00	3824
57.00	714	110.00	5345	204.00	453	276.00	418
63.00	177	111.00	784	205.00	921	296.00	1141
69.00	8396	117.00	1868	206.00	3807	365.00	441
74.00	839	127.00	8885	207.00	219	423.00	910
75.00	1297	128.00	679	217.00	1077	441.00	2486
76.00	381	129.00	3514	221.00	867	442.00	15217
77.00	10701	148.00	182	224.00	2321	443.00	2849
78.00	914	167.00	893	225.00	461		
79.00	644	168.00	411	227.00	801		
80.00	180	179.00	551	244.00	1821		
81.00	662	186.00	2160	255.00	8578		

Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823DFT.D
Date : 23-AUG-2000 19:17
Client ID: DFTPP02
Sample Info: DFTPP050 (25ppb) 194-158-6

Instrument: 71.1
Operator: 045183
Column diameter: 2.00
Column phase:

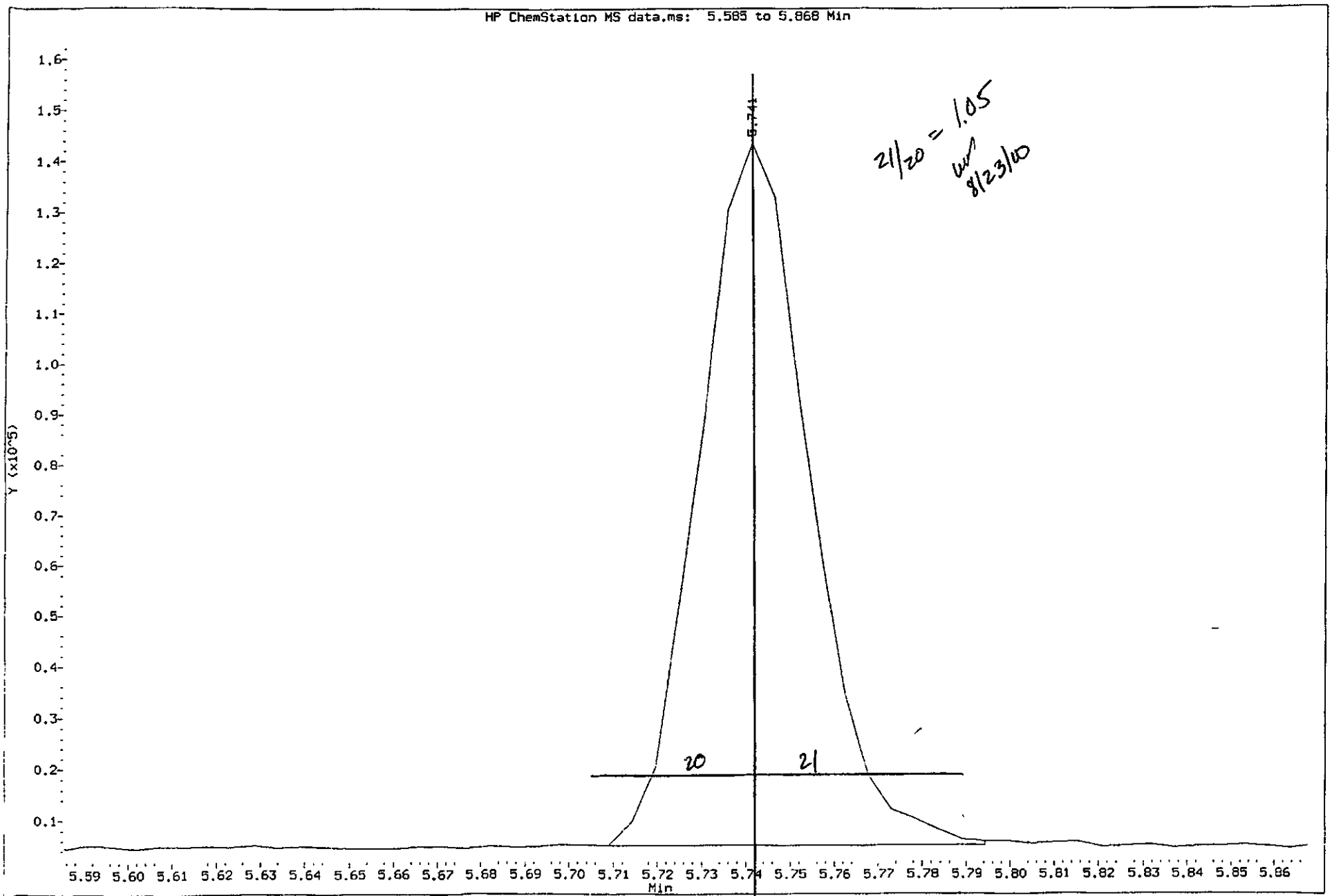


670 278

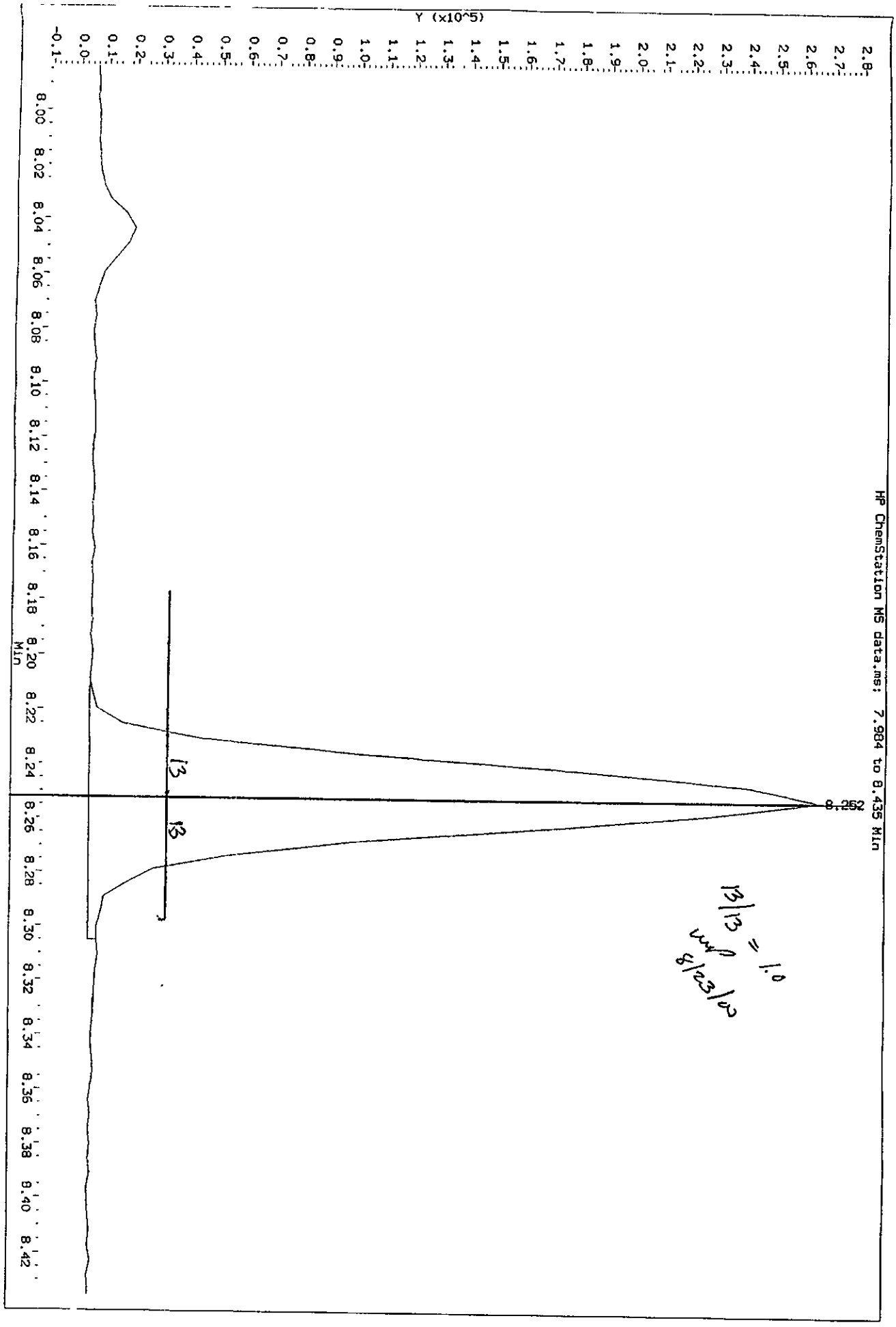
2131

STL Pittsburgh

Data File: \\QPITPA02\D\chem\71.1\s082300.b\S0823DFT.D
Injection Date: 23-AUG-2000 19:17
Instrument: 71.1
Client Sample ID: DFTPP02



670 280


Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823DFT.D
Injection Date: 23-AUG-2000 19:17
Instrument: 71.i
Client Sample ID: DFTPP02
HP ChemStation MS data.ms: 7.984 to 8.435 Min
Y (x10^5)
Min
8.262
i3
i3
i3/i3 = 1.0
wnl
g/23/00

Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824DF1.D

Date : 24-AUG-2000 15:15

Client ID: DFTPP02

Instrument: 71.i

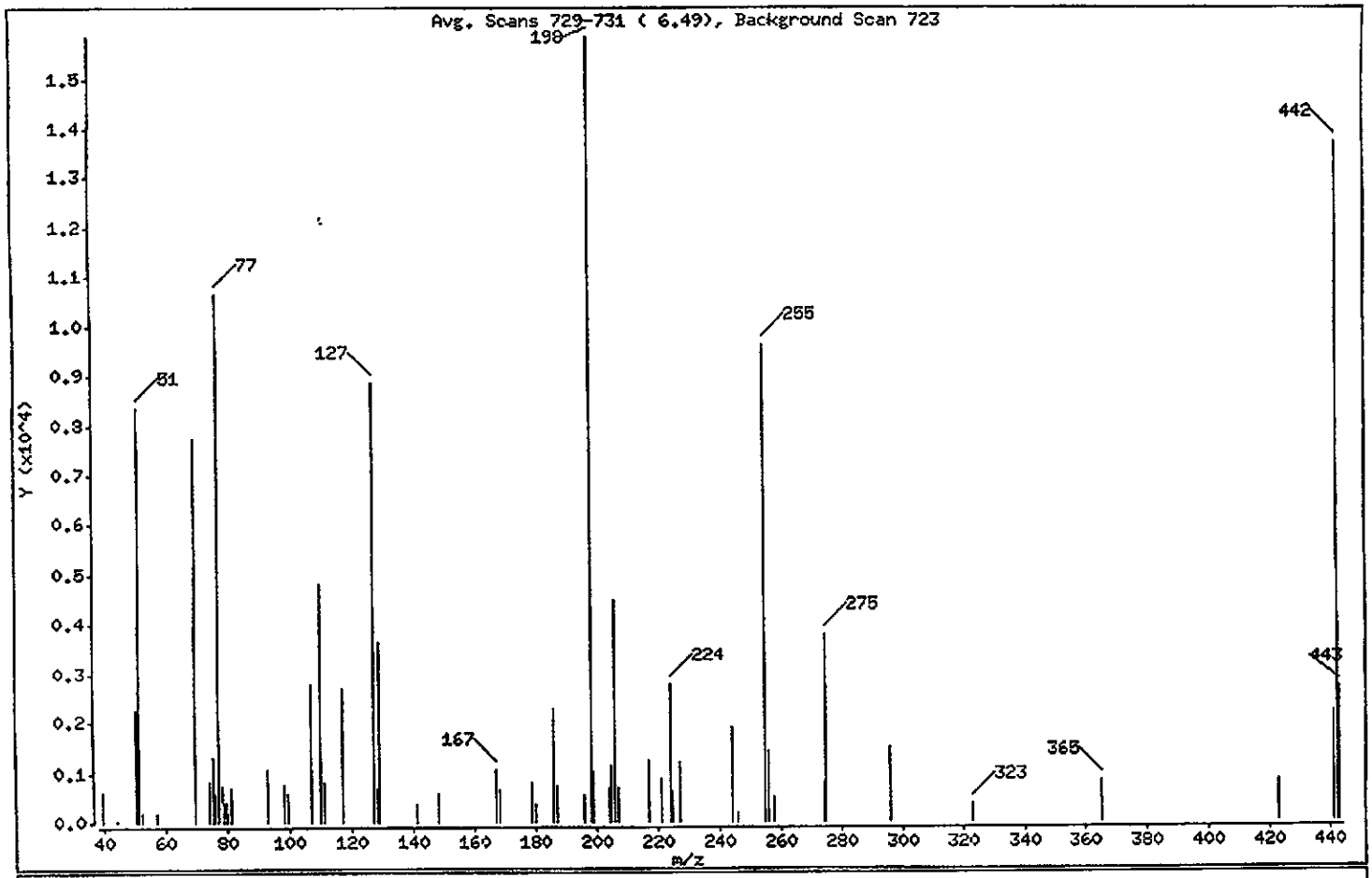
Sample Info: DFTPP050 (25ppb) 194-158-6

Operator: 045183

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	52.75
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	48.65
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	55.77
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.49
275	10.00 - 30.00% of mass 198	23.86
365	Greater than 1.00% of mass 198	5.32
441	Present, but less than mass 443	13.83
442	Greater than 40.00% of mass 198	86.50
443	17.00 - 23.00% of mass 442	16.96 (19.61)

Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824DF1.D

Date : 24-AUG-2000 15:15

Client ID: DFTPP02

Instrument: 71.i

Sample Info: DFTPP050 (25ppb) 194-158-6

Operator: 045183

Column phase:

Column diameter: 2.00

Data File: S0824DF1.D

Spectrum: Avg. Scans 729-731 (6.49), Background Scan 723

Location of Maximum: 198.00

Number of points: 59

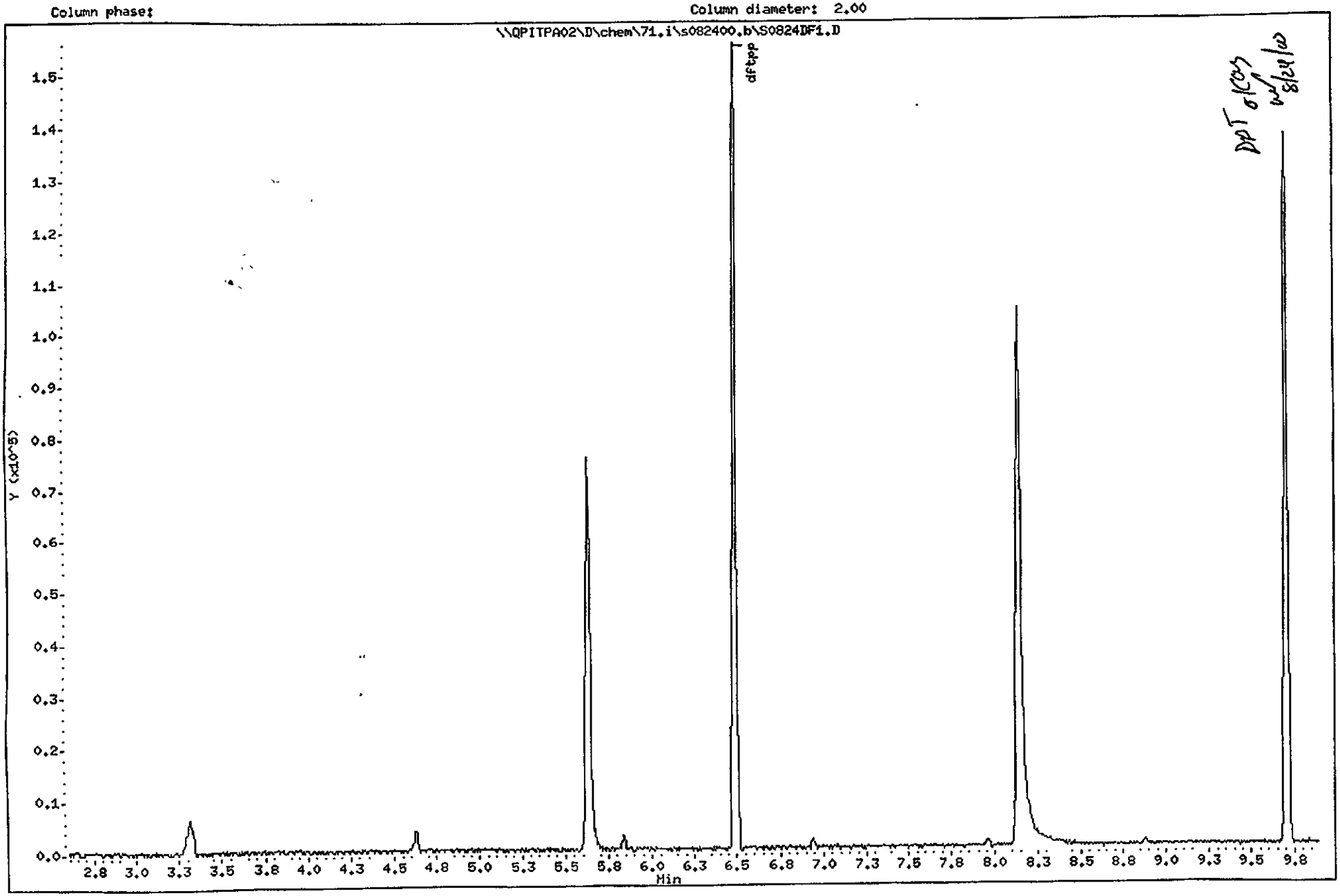
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	636	93.00	1070	180.00	370	244.00	1902
44.00	19	98.00	762	186.00	2264	246.00	179
50.00	2243	99.00	571	187.00	746	255.00	9638
51.00	8366	107.00	2776	196.00	554	256.00	1415
52.00	189	110.00	4810	198.00	15861	258.00	496
57.00	196	111.00	784	199.00	1030	274.00	818
69.00	7717	117.00	2711	204.00	696	275.00	3784
74.00	835	127.00	8846	205.00	1124	296.00	1509
75.00	1297	128.00	693	206.00	4484	323.00	359
76.00	568	129.00	3646	207.00	680	365.00	844
77.00	10639	141.00	352	217.00	1227	423.00	848
78.00	738	148.00	572	221.00	882	441.00	2194
79.00	411	167.00	1060	224.00	2765	442.00	13719
80.00	186	168.00	652	225.00	602	443.00	2690
81.00	676	179.00	790	227.00	1194		

Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824DF1.D
Date : 24-AUG-2000 15:15
Client ID: DFTPP02
Sample Info: DFTPP050 (25ppb) 194-158-6

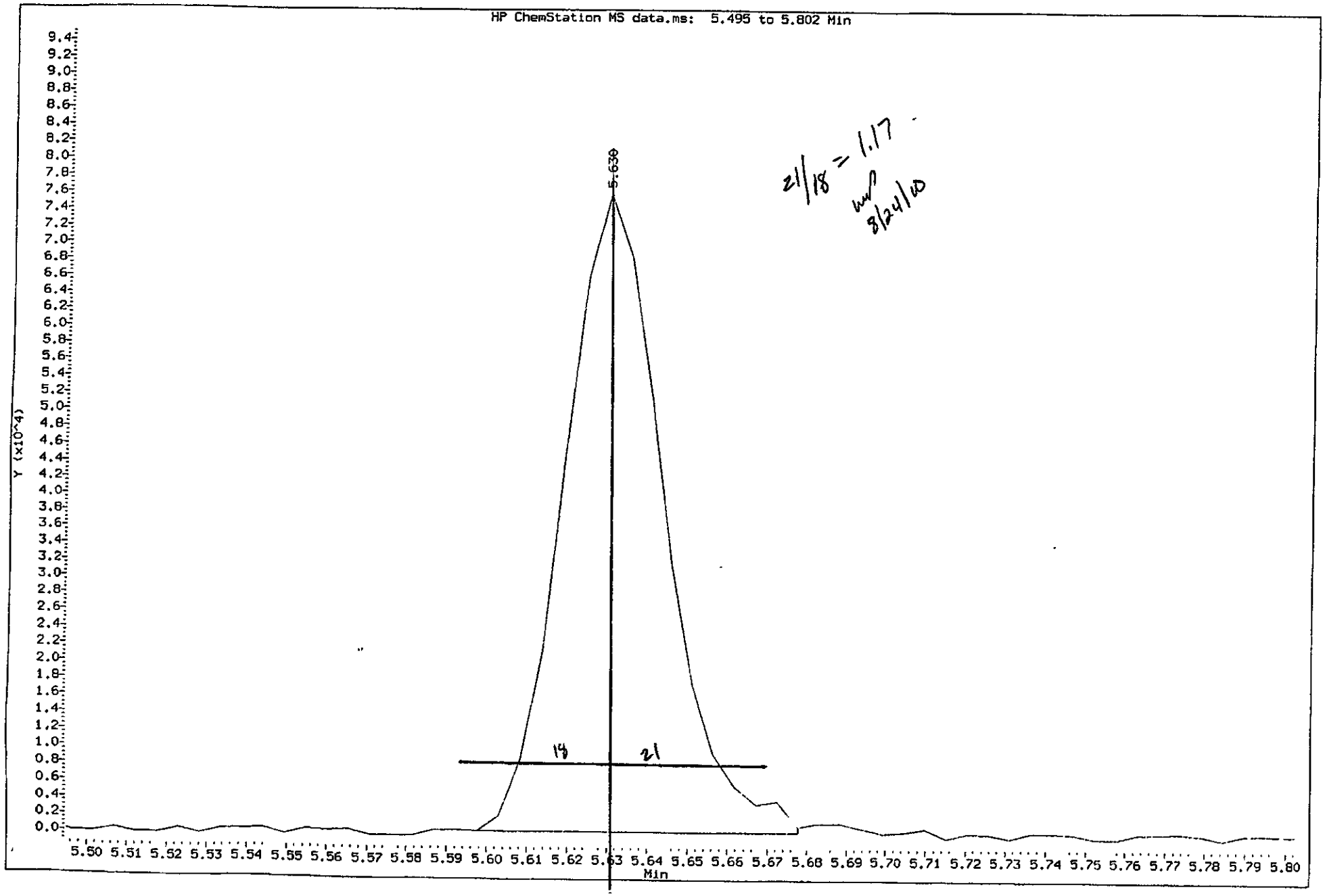
Instrument: 71.i

Operator: 045183
Column diameter: 2.00

Column phase:



Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824DF1.D
Injection Date: 24-AUG-2000 15:15
Instrument: 71.i
Client Sample ID: DFTPP02



21/18 = 1.17
wnl
8/24/00

670 284

2137

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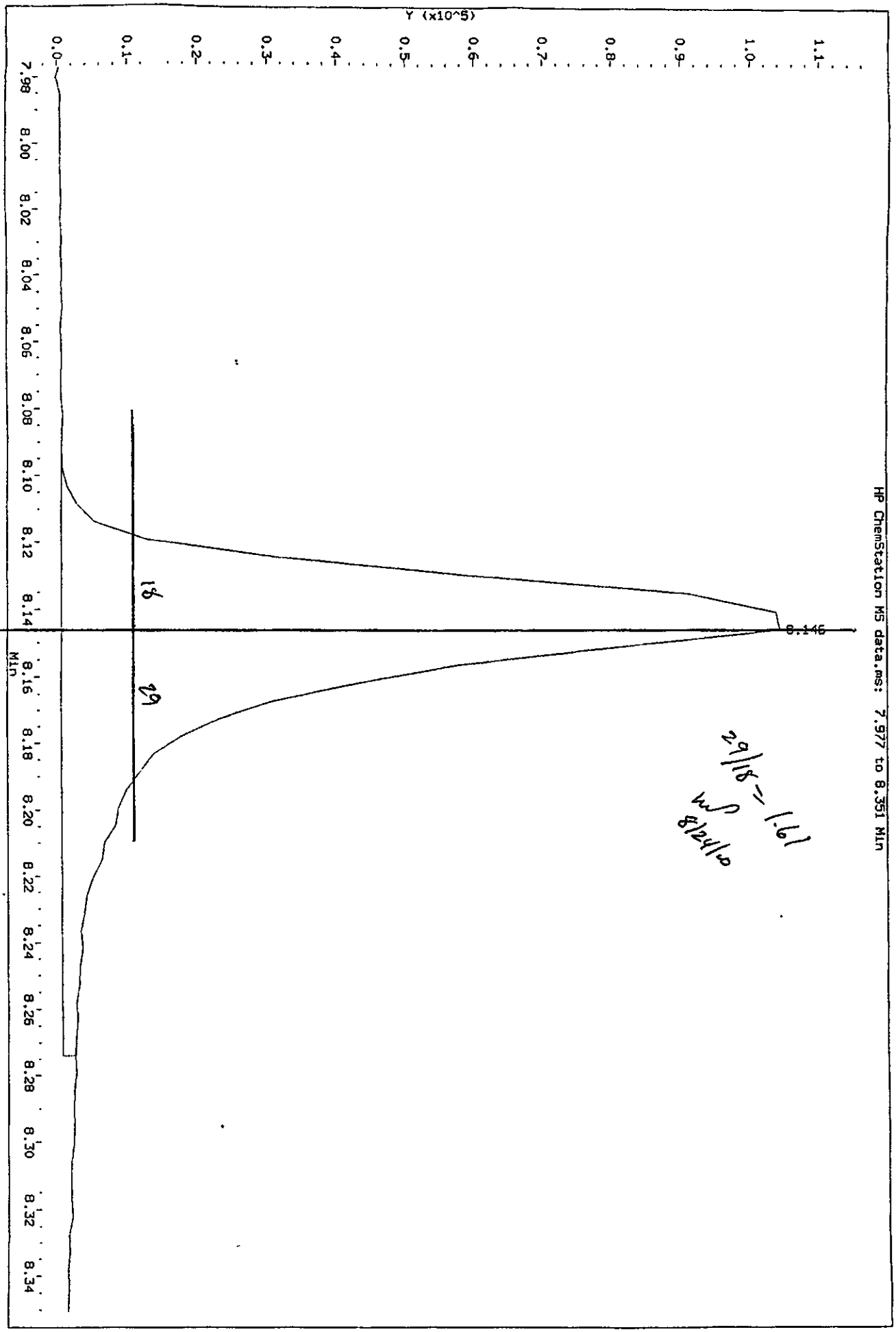

Data File: \\QPITPA02\D\chem\Y1.i\s082400.b\S0824DF1.D
Injection Date: 24-AUG-2000 15:15
Instrument: Y1.i
Client Sample ID: DFTPP02
HP ChemStation MS data.ms: 7.977 to 8.351 Min
Y (x10^5)
Min
8.146
18
19
19/18 = 1.61
WM 8/24/00

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Lab Sample ID:C0H220000 112

Sample WT/Vol: 200 / mL
Work Order: DJ700101
Dilution factor: 1
Moisture %:NA

Date Received: 08/16/00
Date Extracted:08/21/00
Date Analyzed: 08/23/00

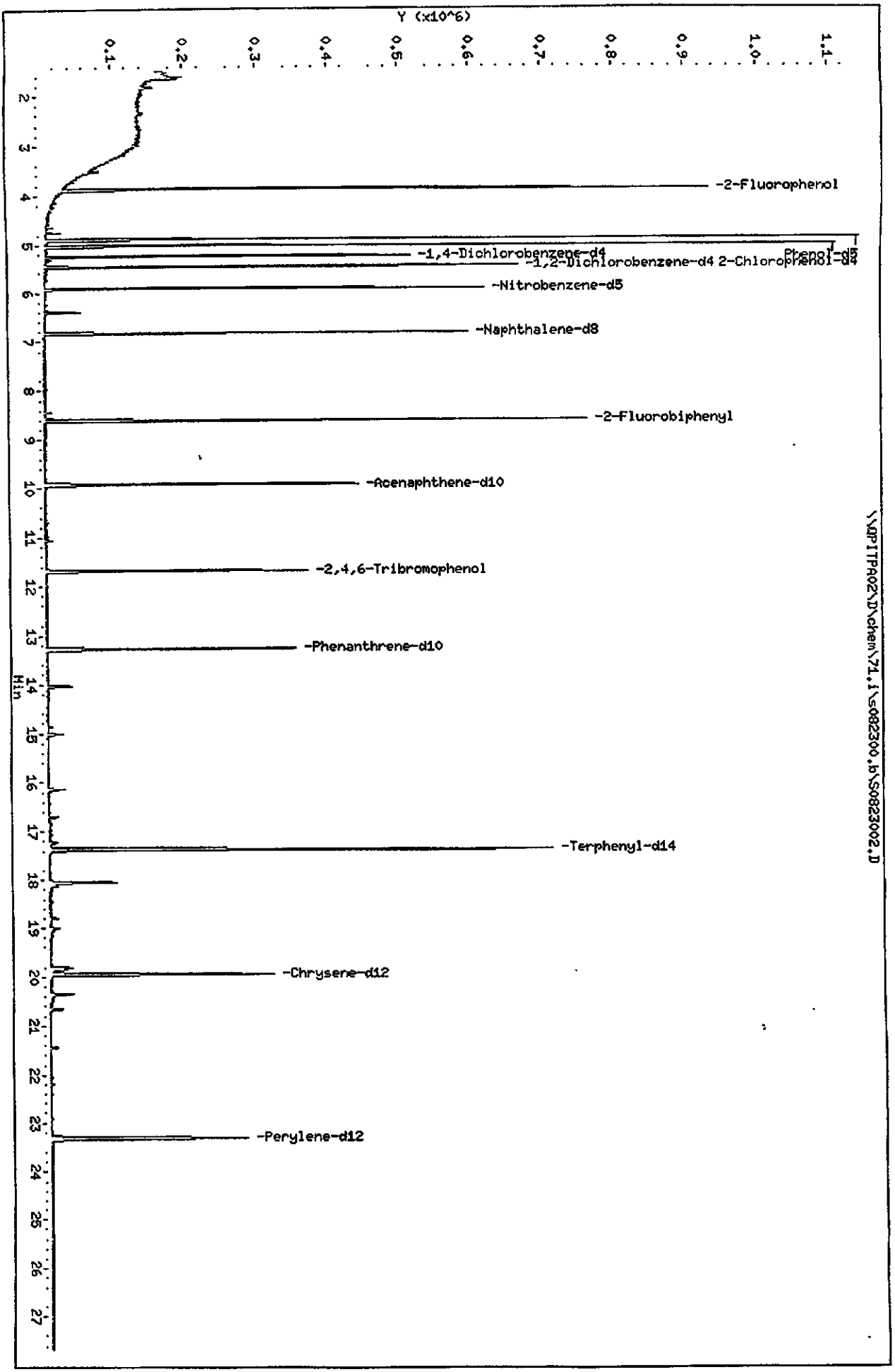
QC Batch: 0235112

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U

Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823002.D
Date : 23-AUG-2000 23:32
Client ID: INTRA-LAB BLANK
Sample Info: c0h160154-sblk 8/21/00 8270c tclp
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 71.i
Operator: 045183
Column diameter: 0.25



Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823002.D
Report Date: 24-Aug-2000 09:17

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823002.D
Lab Smp Id: DJ700101 Client Smp ID: INTRA-LAB BLANK
Inj Date : 23-AUG-2000 23:32
Operator : 045183 Inst ID: 71.i
Smp Info : c0h160154-sblk 8/21/00 8270c tclp
Misc Info : dj700101,s082300.b,8270clp.m,1-tclp.sub,
Comment :
Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
Meth Date : 24-Aug-2000 09:15 bachas Quant Type: ISTD
Cal Date : 23-AUG-2000 21:50 Cal File: S0823CC5.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.04
Processing Host: PITPC050

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)*gpc

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.001	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
gpc	1.000	gpc correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (mg/L)	
*	1 1,4-Dichlorobenzene-d4	152	5.245	5.235	(1.000)	89960	40.0000		(a)
*	2 Naphthalene-d8	136	6.821	6.811	(1.000)	380795	40.0000		(a)
*	3 Acenaphthene-d10	164	9.930	9.910	(1.000)	180111	40.0000		(a)
*	4 Phenanthrene-d10	188	13.275	13.259	(1.000)	268738	40.0000		(a)
*	5 Chrysene-d12	240	19.942	19.937	(1.000)	254204	40.0000		(a)
*	6 Perylene-d12	264	23.318	23.313	(1.000)	250103	40.0000		(a)
	10 Pyridine	79	Compound Not Detected.						
	28 1,4-Dichlorobenzene	146	Compound Not Detected.						
M	34 Cresols, total	100	Compound Not Detected.						
	31 2-Methylphenol	108	Compound Not Detected.						
	35 4-Methylphenol	108	Compound Not Detected.						
	38 Hexachloroethane	117	Compound Not Detected.						
	39 Nitrobenzene	77	Compound Not Detected						

Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823002.D
Report Date: 24-Aug-2000 09:17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (mg/L)
59 Hexachlorobutadiene	224	Compound Not Detected.					
69 2,4,6-Trichlorophenol	196	Compound Not Detected.					
70 2,4,5-Trichlorophenol	196	Compound Not Detected					
91 2,4-Dinitrotoluene	165	Compound Not Detected					
113 Hexachlorobenzene	283	Compound Not Detected.					
117 Pentachlorophenol	265	Compound Not Detected.					
$ 172 Nitrobenzene-d5	82	5.919	5.914	(0.868)	265301	66 2212	0.16555(a)
$ 173 2-Fluorobiphenyl	172	8.606	8.595	(0.867)	382277	64.3993	0.16100(a)
$ 174 Terphenyl-d14	244	17.361	17.346	(0.871)	523418	100.112	0.25028(a)
$ 175 Phenol-d5	99	4.893	4.893	(0.933)	449202	104.700	0.26175(a)
$ 176 2-Fluorophenol	112	3.889	3.878	(0.741)	281883	86.2356	0.21559(a)
$ 177 2,4,6-Tribromophenol	330	11.688	11.678	(0.880)	69849	90.5971	0.22649(a)
$ 178 2-Chlorophenol-d4	132	5.032	5.027	(0 959)	316167	110.432	0.27608(a)
$ 179 1,2-Dichlorobenzene-d4	152	5.459	5.449	(1.041)	113848	57.0304	0.14258(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID Lab Sample ID:C0H220000 112
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL Date Received: 08/16/00
Work Order: DJ700102 Date Extracted:08/21/00
Dilution factor: 1 Date Analyzed: 08/23/00
Moisture %:NA

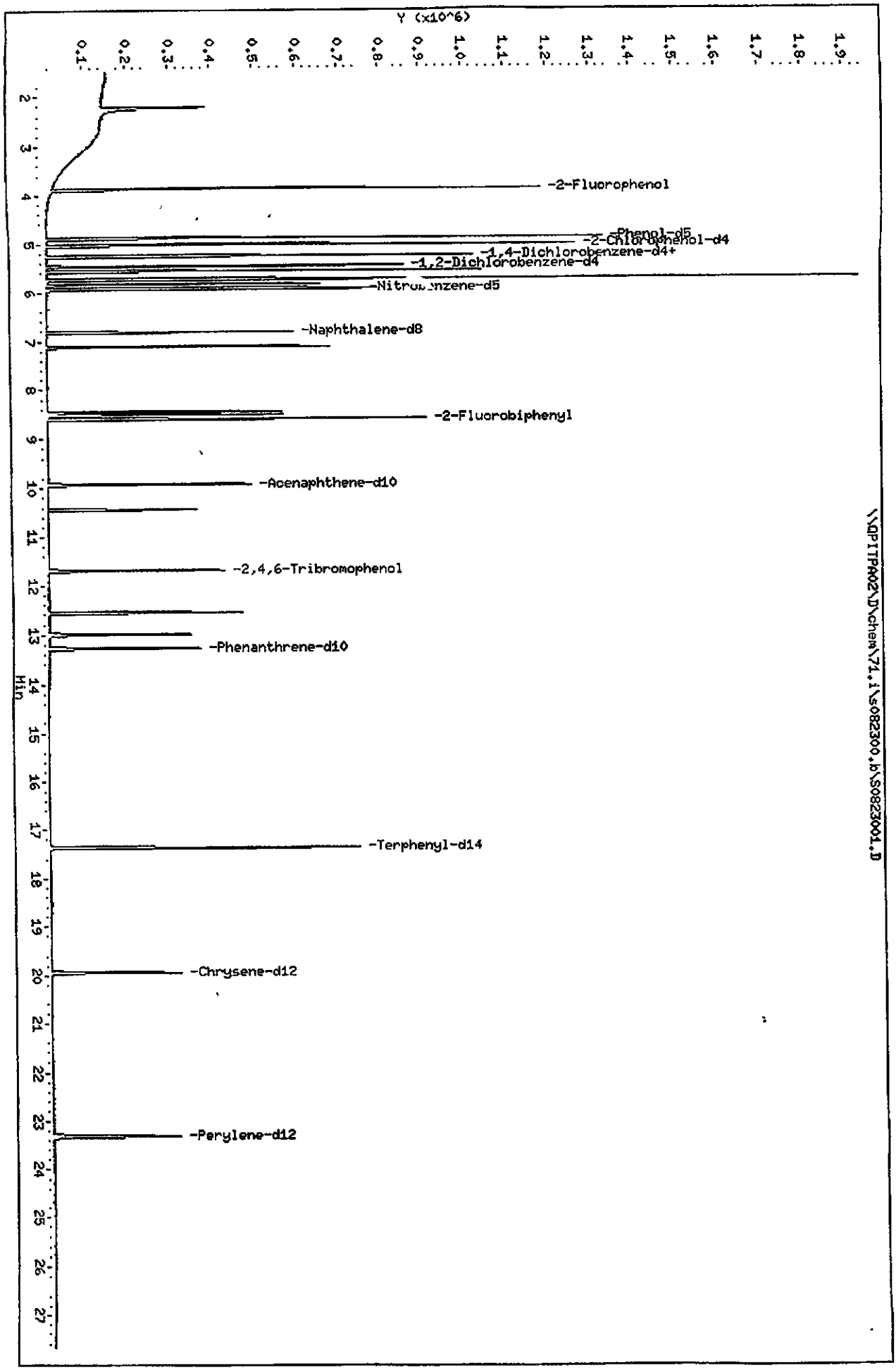
QC Batch: 0235112

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.186	
121-14-2	2,4-Dinitrotoluene	0.155	
118-74-1	Hexachlorobenzene	0.182	
87-68-3	Hexachlorobutadiene	0.171	
67-72-1	Hexachloroethane	0.200	
98-95-3	Nitrobenzene	0.189	
87-86-5	Pentachlorophenol	0.192	
110-86-1	Pyridine	0.122	
95-95-4	2,4,5-Trichlorophenol	0.181	
88-06-2	2,4,6-Trichlorophenol	0.173	
1319-77-3	Cresols (total)	0.607	

Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823001.D
Date : 23-AUG-2000 22:58
Client ID: INTRA-LAB CHECK
Sample Info: c0h160154-lcs 8/21/00 8270c tclp
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 71.i
Operator: 045183
Column diameter: 0.25



Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823001.D Page 1
Report Date: 24-Aug-2000 09:16

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823001.D
Lab Smp Id: DJ700102 Client Smp ID: INTRA-LAB CHECK
Inj Date : 23-AUG-2000 22:58
Operator : 045183 Inst ID: 71.i
Smp Info : c0h160154-lcs 8/21/00 8270c tclp
Misc Info : dj700102,s082300.b,8270clp.m,1-tclp.sub,
Comment :
Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
Meth Date : 24-Aug-2000 09:15 bachas Quant Type: ISTD
Cal Date : 23-AUG-2000 21:50 Cal File: S0823CC5.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.04
Processing Host: PITPC050

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)*gpc

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.001	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
gpc	1.000	gpc correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (mg/L)	
*	1 1,4-Dichlorobenzene-d4	152	5.243	5.235	(1.000)	96216	40 0000		(a)
*	2 Naphthalene-d8	136	6.819	6.811	(1.000)	397562	40.0000		(a)
*	3 Acenaphthene-d10	164	9.928	9.910	(1.000)	191210	40.0000		(a)
*	4 Phenanthrene-d10	188	13.272	13.259	(1.000)	282814	40.0000		(a)
*	5 Chrysene-d12	240	19.939	19.937	(1.000)	261450	40.0000		(a)
*	6 Perylene-d12	264	23.320	23.313	(1.000)	267824	40.0000		(a)
	10 Pyridine	79	2.230	2.222	(0.425)	194279	48.7879	0.12197	(aM)
	28 1,4-Dichlorobenzene	146	5.264	5.251	(1.004)	273627	74.3734	0 18593	(a)
M	34 Cresols, total	100				830476	242.679	0.60670	(a)
	31 2-Methylphenol	108	5.563	5.561	(1.061)	258937	78 0671	0.19517	(a)
	35 4-Methylphenol	108	5.729	5.727	(1.093)	571539	164.612	0.41153	(aA)
	38 Hexachloroethane	117	5.830	5.817	(1.112)	108900	79.8459	0.19961	(a)
	39 Nitrobenzene	77	5.937	5.935	(0.871)	326088	75.7420	0.18935	(a)

Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823001.D
Report Date: 24-Aug-2000 09:16

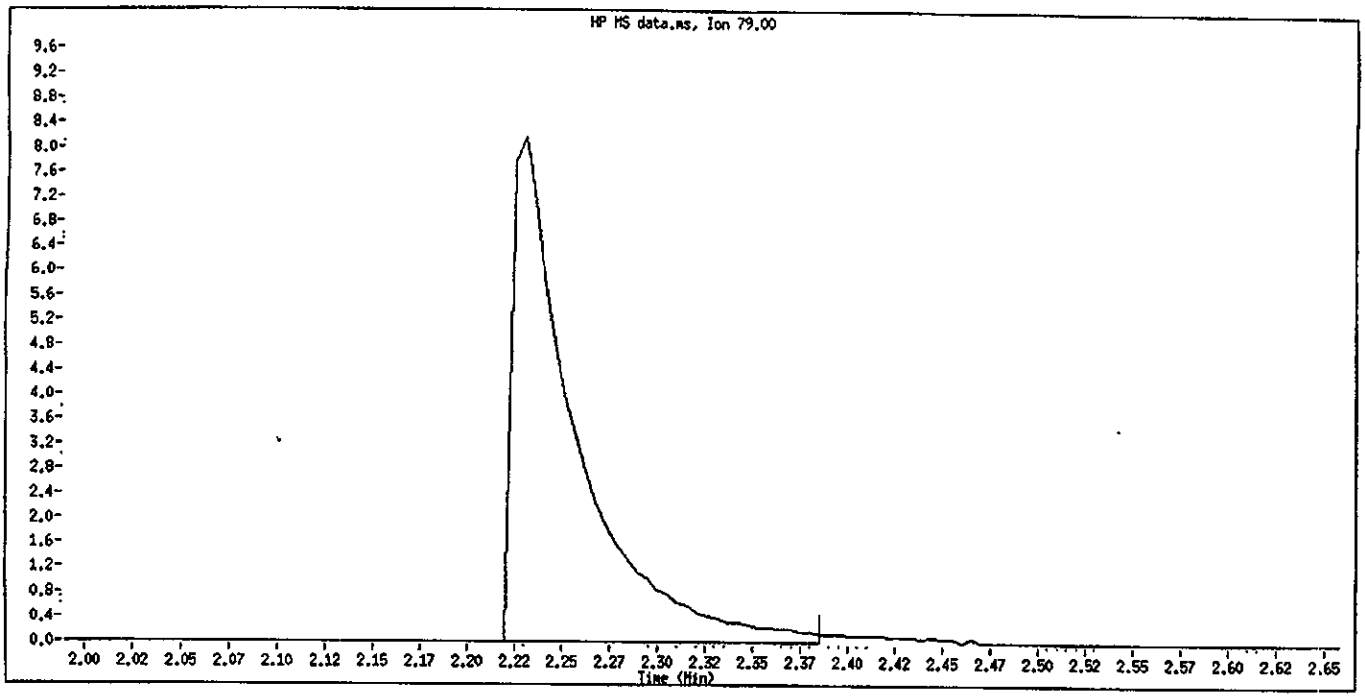
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
59 Hexachlorobutadiene	225	7 112	7.100	(1.043)	105218	68.3951	0.17099(a)
69 2,4,6-Trichlorophenol	196	8.453	8.446	(0 851)	118363	69.3070	0.17327(a)
70 2,4,5-Trichlorophenol	196	8.512	8.515	(0.857)	131181	72.2557	0.18064(a)
91 2,4-Dinitrotoluene	165	10.446	10.449	(1.052)	100424	61.9954	0.15499(a)
113 Hexachlorobenzene	284	12.561	12.549	(0.946)	119563	72.8890	0.18222(a)
117 Pentachlorophenol	266	12.994	12.981	(0.979)	74071	76.7598	0.19190(a)
$ 172 Nitrobenzene-d5	82	5.916	5.914	(0.868)	318549	76.1589	0 19040(a)
$ 173 2-Fluorobiphenyl	172	8.608	8.595	(0 867)	469599	74.5178	0 18629(a)
$ 174 Terphenyl-d14	244	17.359	17.346	(0.871)	535671	99.6158	0.24904(a)
$ 175 Phenol-d5	99	4.895	4.893	(0.934)	532704	116.090	0.29022(a)
$ 176 2-Fluorophenol	112	3.886	3.878	(0.741)	359314	102.777	0.25694(a)
$ 177 2,4,6-Tribromophenol	330	11.685	11.678	(0.880)	82215	101.329	0 25332(a)
$ 178 2-Chlorophenol-d4,	132	5.029	5.027	(0.959)	380750	124.342	0.31086(a)
$ 179 1,2-Dichlorobenzene-d4	152	5.462	5.449	(1.042)	155856	72.9972	0.18249(a)

QC Flag Legend

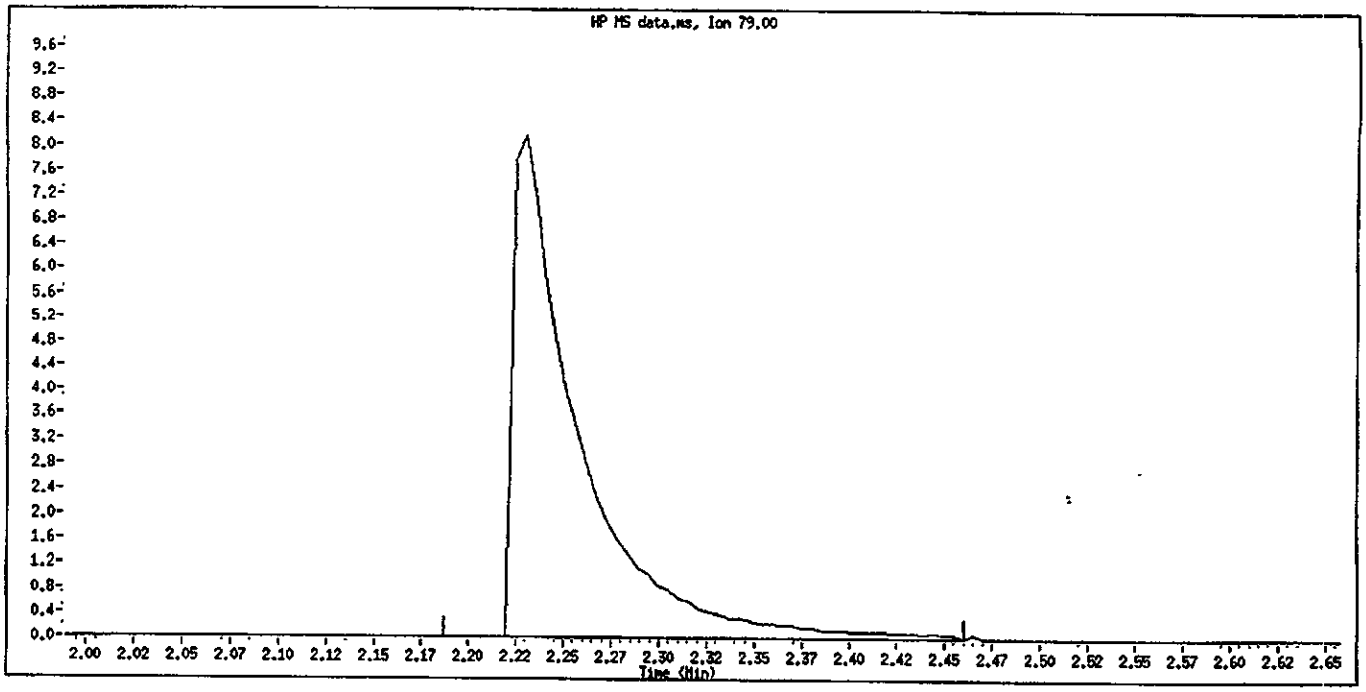
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

670 294

Data File Name: S0823001.D
Inj. Date and Time: 23-AUG-2000 22.58
Instrument ID. 71.1
Client ID. INTRA-LAB CHECK
Compound Name: Pyridine
CAS #: 110-86-1
Report Date 08/24/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

GC/MS SEMIVOLATILE
MISCELLANEOUS

Continuous L-L Extraction Worksheet

TCLP

STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8380

Committed To Your Success

Began 8-21-00	Time 13:50	Prep Meth # 3520C	H2SO4 186-163	Solvent Mecl2	Solvent Lot T1927	NaSO4 Lot Number T03265	Clean up Method NA	
Change over 8-22-00	Time 10:05	Analysis 8270	NaOH. 0166-19	Solvent Mfg. BAKER				
Completed 8-23-00	Time 0900							

	Lot Number	Sample ID	Client ID	Extract Vol (mL)	Final Volume mL	pH	Surrogate Lot #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol. (mL)	Cleanup Init/date
1.	COH160154	BLK	NA	200	1.0	5/2 11	194-183-2	0.5	NA	NA	NA
2.		LCS				5/2/11					
3.		MS (001)				5/2/11			194-178-3	0.5	
4.		MSD (001)				5/2/11					
5.		001				5/2/11			194-178-3	0.5	
6.		002				5/2/11			NA	NA	
7.		003				5/2/11					
8.	COH170113	001				6/2/11					
9.											
10.											
11.											
12.											
13.											
14.											
15.											
16.											
17.			WT 8/21/2000								
18.											
19.											
20.											
21.											
22.											
23.											
Prep Analyst:	KG	KG	KG	WT	KG/JM	WT	JM/WT	JM/WT	JM/WT	JM/WT	WT

Extract(s) (Record line number from above)	Extract(s) Received Date	Time	Analyst	Location	Extract(s) Relinquished Date	Time	Analyst	Location
ALL ABOVE	8-23-00	0900		ORG. PREP	8-23-00	0905		BF01-BNA
ALL ABOVE	8/23/00	1430		VANCHAIN	8/23/00	1530		BF01-BNA
ALL ABOVE	8/24/00	0730		CABINET	8/24/00	0900		MW2SWHD

Batch Number: 0235112

Reviewed By: [signature] Date 8-23-00

STL Pittsburgh

TCLP (Method 1311)

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571

Quanterr Environmental Services

QUA-4181

Filter Lot# 832001W

By	Date	Checked by	Date	pH Instrument	Probe	Balance
James L. Murphy	8-17-00	Ellen Fawot	8-18-00	Accumet AR25	SN005946	C948117

Serial Number: 085 | Log Book Number: 96-MT-52

Project Number	Lot Number	Client Codes	Solution Number 1 - Log Book Number	Solution Number 2 - Log Book Number
	COH160184, COH170113		004497-12	

Fluid Determination

Sample ID	Wgt/Vol	Init. pH	Final pH	Extract Fluid #1, or #2	Conc : HNO_3 to Acidity (for Metals)
DHX4D	5.00g / 96.5ml	5.49	1.91	Soln #1	10ml
DHX47	↓ / ↓	5.51	1.96	↓	↓
DHX4A	↓ / ↓	5.59	1.67	↓	↓
DJ00L	↓ / ↓	5.75	1.79	↓	↓

J.M 8-17-00

J.M 8-17-00

TCLP Extraction

	Sample ID	Wgt (g) Wet/Dry	Fluid Vol.	Glass	Final pH Aft Tumbling
1.	PB-TCLP	—	2000ml	↓	4.93
2.	DHX4D	100.0g	↓	↓	5.05
3.	↓	↓	↓	↓	5.08
4.	DHX47	↓	↓	↓	5.09
5.	DHX4A	↓	↓	↓	5.04
6.	DJ00L	↓	↓	↓	5.53
7.					
8.					
9.					
10					
11					
12.					
13.					

J.M 8-17-00

Extract(s) Received

Extract(s) (Record line number from above)	Date	Time	Analyst	Location
All above	8-18-00	11:00	James L Murphy	Metals Prep

Extract(s) Relinquished

Date	Time	Analyst	Location
8-18-00	11:30	A Lee	17E

* = Sample determined to have free-liquid, % solid determination was performed.

<5 = Extraction Fluid No. 1 5.7 mL Glacial Acetic Acid dil 500 mL + 64.3 mL of 1N Na OH dil to 1L (pH 4.93 ± 0.05)

>5 = Extraction Fluid No. 2 5.7 mL Glacial Acetic Acid dil to 1L (pH 2.88 ± 0.05)

Date/Time On: 8-17-00 1:00 | Date/Time Off: 8-18-00 | Agitation Apparatus RPMs: 30 ± 2 J.M - 8-17-00

pH Calibration	(4.0)	(7.0)	(10.0)
Date 8-17-00	4.01	7.02	10.05
Date 8-18-00	4.00	7.02	10.05

Comments: Room temp° = 21° pH E.F. = 4.98

670 297

2150

670 298

Comment: STL PITT HP597371A LOG 2ul inj (100ul+1ul IS)
Operator: 045183
Data Path: D:\HPCHEM\1\DATA\s082300.b\
Pre-Seq Cmd:
Post-Seq Cmd:

VVP / SRB
E270
IS= 194-183-2

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	S0823DFT	DFTPP1	DFTPP050 (25ppb) 194-158-6
2	Sample	95	S0823CC2	EARLY	sstd50(25 ug/ml) 194-183-7 82
3	Sample	94	S0823CC1	EARLY	sstd20(10 ug/ml) 194-188-3 82
4	Sample	96	S0823CC3	EARLY	sstd80(40 ug/ml) 194-188-5 82
5	Sample	97	S0823CC4	EARLY	sstd120(60 ug/ml) 194-188-6 8
6	Sample	98	S0823CC5	EARLY	sstd160(80 ug/ml) 194-188-7 8
7	Sample	99	S0823VER	EARLY	ver50(25 ug/ml) 194-183-8 827
8	Sample	2	S0823001	EARLY	c0h160154-lcs 8/21/00 8270c t
9	Sample	3	S0823002	EARLY	c0h160154-sblk 8/21/00 8270c
10	Sample	4	S0823003	EARLY	c0h160154-001ms 8/21/00 8270c
11	Sample	5	S0823004	EARLY	c0h160154-001msd 8/21/00 8270
12	Sample	6	S0823005	EARLY	c0h160154-001 8/21/00 8270c t
13	Sample	7	S0823006	EARLY	c0h160154-002 8/21/00 8270c t
14	Sample	8	S0823007	EARLY	c0h160154-003 8/21/00 8270c t
15	Sample	9	S0823008	EARLY	c0h170113-001 8/21/00 8270c t

Last Modified: Thu Aug 24 09:11:26 2000

Sequence Name: D:\HPCHEM\1\SEQUENCE\S082400.S
Comment: STL PITT HP597371A LOG 2ul inj (100ul+1ul IS)
Operator: 045183
Data Path: D:\HPCHEM\1\DATA\s082400.b\
Pre-Seq Cmd:
Post-Seq Cmd:

670 299

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	S0824DFT	DFTPP1	DFTPP050 (25ppb) 194-158-6
2	Sample	1	S0824DF1	DFTPP1	DFTPP050 (25ppb) 194-158-6
3	Sample	2	S0824CCC	EARLY	sstd50(25 ug/ml) 194-183-13 8
4	Sample	96	S0824C01	EARLY	sstd20(10 ug/ml) 194-188-3 82
5	Sample	97	S0824C03	EARLY	sstd80(40 ug/ml) 194-188-5 82
6	Sample	98	S0824C04	EARLY	sstd120(60 ug/ml) 194-188-6 8
7	Sample	99	S0824C05	EARLY	sstd160(80 ug/ml) 194-188-7 8
8	Sample	3	S0824001	EARLY	c0h160154-001ms 8/21/00 8270c
9	Sample	4	S0824002	EARLY	c0h160154-001msd 8/21/00 8270
10	Sample	5	S0824003	EARLY	c0h160154-002 8/21/00 8270c t
11	Sample	6	S0824004	EARLY	c0h160154-003 8/21/00 8270c t
12	Sample	7	S0824005	EARLY	c0h170113-001 8/21/00 8270c t
13	Sample	8	S0824006	EARLY	c0h150136-sblk 8/16/00 sadva1
14	Sample	9	S0824007	EARLY	c0h150136-lcs 8/16/00 sadva11
15	Sample	10	S0824008	EARLY	c0h150136-004 8/16/00 sadva11
16	Sample	11	S0824009	EARLY	c0h150136-004ms 8/16/00 sadva
17	Sample	12	S0824010	EARLY	c0h150136-004msd 8/16/00 sadv
18	Sample	13	S0824011	EARLY	c0h150136-001 8/16/00 sadva11
19	Sample	14	S0824012	EARLY	c0h150136-002 8/16/00 sadva11
20	Sample	17	S0824015	EARLY	c0h150136-006 8/16/00 sadva11
21	Sample	18	S0824016	EARLY	c0h150136-007 8/16/00 sadva11
22	Sample	20	S0824018	EARLY	c0h150136-009 8/16/00 sadva11
23	Sample	21	S0824019	EARLY	c0h150136-010 8/16/00 sadva11
24	Sample	22	S0824020	EARLY	c0h150136-011 8/16/00 sadva11
25	Sample	19	S0824017	EARLY	c0h150136-008 8/16/00 sadva11
26	Sample	15	S0824013	EARLY	c0h150136-003 8/16/00 sadva11
27	Sample	16	S0824014	EARLY	c0h150136-005 8/16/00 sadva11

Last Modified: Fri Aug 25 11:47:39 2000

670 300

PSR024 8/21/00 1:53:41 MT SAMPLE CUSTODIAN REMOVAL REQUEST

REQUESTED BY: GEEHRINK

METHOD: QL Base/Neutrals and Acids (8270C)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
1A,E CLP1 17E	DHX40-1-03	___ ___ ___	260343	399411	A-59-QL	C0H160154	001		SOLID	0 3	1
1A,E CLP1	DHX47-1-03	___ ___ ___	260344	399411	A-59-QL	C0H160154	002		SOLID	0 3	1
1A,E CLP1	DHX4A-1-03	___ ___ ___	260345	399411	A-59-QL	C0H160154	003		SOLID	0 3	1
1E CLP1	DJ0QL-1-03	___ ___ ___	260346	399411	A-59-QL	C0H170113	001		SOLID	0 3	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Ken Geehr	B Trout	8/21/2000 07:45
B Trout	Ken Geehr	8/21/2000 13:50

***** END OF REPORT *****

PESTICIDE DATA

670 302

PESTICIDE
QC SUMMARY

SW846 8081A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0H170113

	CLIENT ID.	SRG01	SRG02	TOT OUT
01	~~INTRA LAB QC~~ DF8.2500	95	88	00
02	DF/S1/0228/GRAB/006	121	53	00
03	METHOD BLK. DJ6M5101	100	89	00
04	LCS DJ6M5102	99	90	00
05	~~LAB MS/MSD D~~ DF8.2500	97	87	00
06	~~LAB MS/MSD S~~	96	86	00

SURROGATES		QC LIMITS
SRG01	= Decachlorobiphenyl	(10-147)
SRG02	= Tetrachloro-m-xylene	(39-130)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

670-304 SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Lot #: C0H210000 WO #: DJ6M5102
BATCH: 0234434

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
Lindane	0.00250	0.00169	68	49- 137	
Heptachlor	0.00250	0.00233	93	57- 124	
Heptachlor epoxide	0.00250	0.00238	95	53- 135	
Endrin	0.00250	0.00224	90	46- 137	
Methoxychlor	0.00250	0.00249	100	12- 154	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C0H160154 WO #: DHX40119
BATCH: 0234434

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
Lindane	0.00250	ND	0.00161	64	30 - 148	
Heptachlor	0.00250	ND	0.00226	91	25 - 135	
Heptachlor epoxide	0.00250	ND	0.00228	91	38 - 138	
Endrin	0.00250	ND	0.00234	94	28 - 148	
Methoxychlor	0.00250	ND	0.00247	99	13 - 154	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0H160154 WO #: DHX4011A
BATCH: 0234434

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Lindane	0.00250	0.00164	65	1.4	22	30- 148	
Heptachlor	0.00250	0.00228	91	0.66	32	25- 135	
Heptachlor epoxide	0.00250	0.00233	93	2.2	31	38- 138	
Endrin	0.00250	0.00232	93	0.85	40	28- 148	
Methoxychlor	0.00250	0.00247	99	0.12	29	13- 154	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.: DJ6M5101

SW846 8081A METHOD BLANK SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

Lab File ID: D-B5582.d

Matrix: SOLID

SDG Number:

Lot Number: C0H170113

Extraction Method: 1311/3510

Date Extracted: 08/21/00

Date Analyzed(1): 08/24/00

Time Analyzed(1): 02:37

Instrument ID(1): G/H

Date Analyzed(2): N/A

Time Analyzed(2): N/A

Instrument ID(2): N/A

GC Column(1): DB608/1701 ID: 053 GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
01	~~INTRA LAB QC~~	DHX40104	08/24/00	N/A
02	LAB MS/MSD 08-25-00	DHX4011A D	08/24/00	N/A
03	~~LAB MS/MSD~~	DHX40119 S	08/24/00	N/A
04	DF/S1/0228/GRAB/006	DJ0QL104	08/24/00	N/A
05	CHECK SAMPLE	DJ6M5102 C	08/24/00	N/A
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

PESTICIDE
SAMPLE DATA

UXB INTERNATIONAL

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:C0H170113 001

Sample WT/Vol: 100 / mL
Work Order: DJ0QL104
Dilution factor: 1
Moisture %:20

Date Received: 08/17/00
Date Extracted:08/21/00
Date Analyzed: 08/24/00

QC Batch: 0234434

Client Sample Id: DF/S1/0228/GRAB/006

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5589.d
Report Date: 28-Aug-2000 11:15

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5589.d
Lab Smp Id: DJ0QL104 Client Smp ID: DF/S1/0228/GRAB/006
Inj Date : 24-AUG-2000 05:50
Operator : 1891 Inst ID: gc4.i
Smp Info : DJ0QL104,5280-G.b,,PEST.sub,,,
Misc Info : 170113001
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC043

Concentration Formula: Amt * DF * (Vt/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

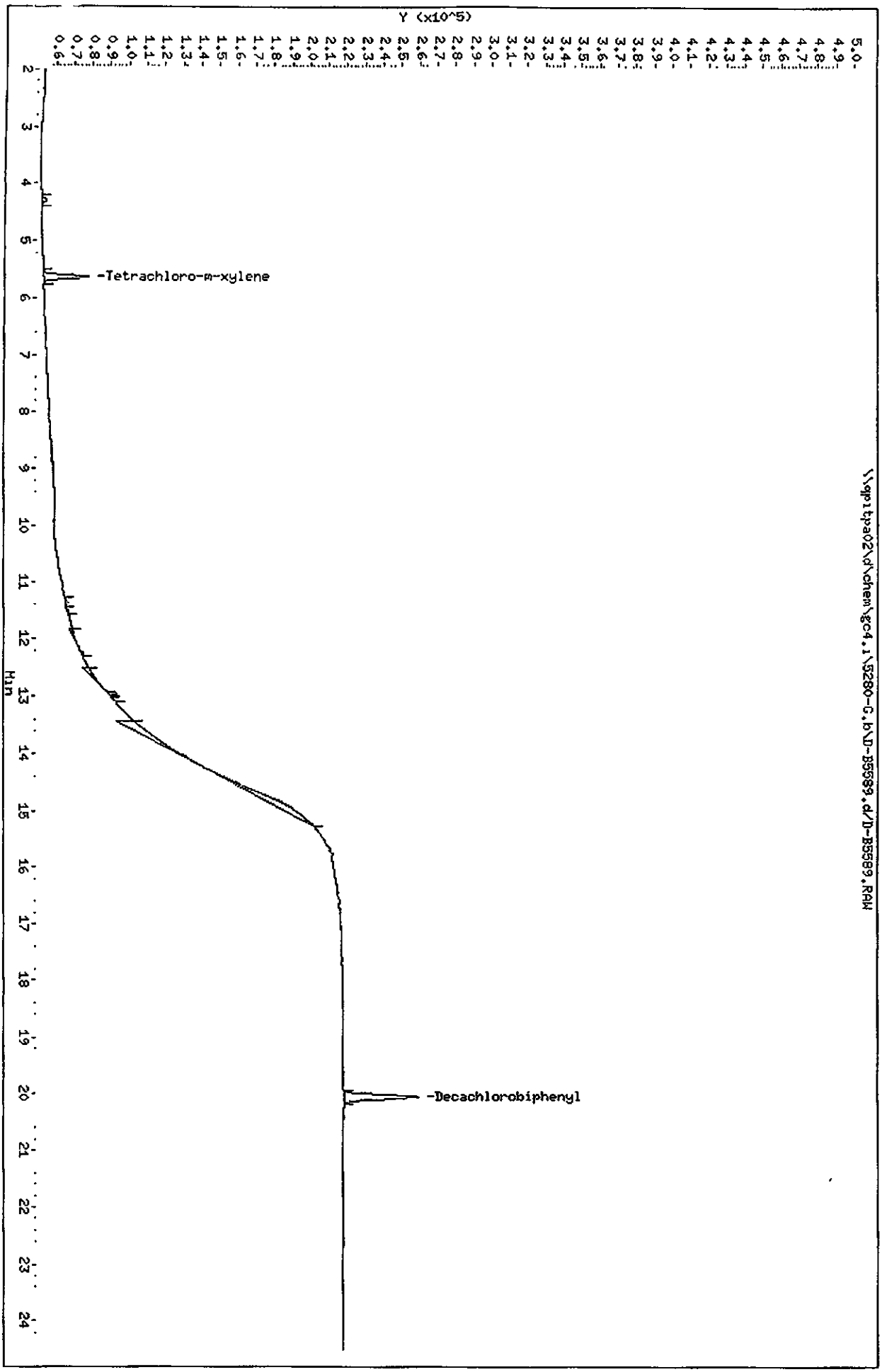
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 1	Tetrachloro-m-xylene	5.633	5 633	0.000	24289	0.01062	0.001062(aR)
5	alpha-BHC	Compound Not Detected.					
6	gamma-BHC (Lindane)	Compound Not Detected.					
9	Chlordane	Compound Not Detected					
10	Heptachlor	Compound Not Detected.					
11	Aldrin	Compound Not Detected.					
7	beta-BHC	Compound Not Detected.					
8	delta-BHC	Compound Not Detected.					
12	Heptachlor epoxide	Compound Not Detected.					
15	Endosulfan I	Compound Not Detected.					
13	gamma-Chlordane	Compound Not Detected.					
14	alpha-Chlordane	Compound Not Detected.					
16	4,4'-DDE	Compound Not Detected.					
17	Dieldrin	Compound Not Detected.					
20	Endrin	Compound Not Detected.					

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5589.d
Report Date: 28-Aug-2000 11:15

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
	18 Toxaphene	Compound Not Detected.					
	21 4,4'-DDD	Compound Not Detected					
	22 Endosulfan II	Compound Not Detected.					
	23 4,4'-DDT	Compound Not Detected.					
	24 Endrin aldehyde	Compound Not Detected.					
	25 Methoxychlor	Compound Not Detected.					
	26 Endosulfan sulfate	Compound Not Detected.					
	58 MIREX	Compound Not Detected.					
	29 Kepone	Compound Not Detected.					
	27 Endrin ketone	Compound Not Detected					
$	30 Decachlorobiphenyl	20.053	20.060	-0.007	40889	0.02418	0.002418(aR)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.


Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5589.d
Date : 24-AUG-2000 05:50
Client ID: BF/SI/0228/GRAB/006
Sample Info: DJOQL104,5280-G.b,,PEST.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5589.d\D-B5589.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-Decachlorobiphenyl

PESTICIDE
CALIBRATION DATA

(6D)
589046
DB170)

Report Date : 28-Aug-2000 11:49

STL - Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Quant Method : ESTD
Target Version : 4.04
Last Update : 28-Aug-2000 11:31
Number of Cpnds : 31
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	90.000000
Initial:End Threshold	45.000000
Initial:Area Threshold	900.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	1.000000
Initial:Negative Peaks	OFF
Initial:Tension	0.000000
15.000:Start Threshold	672.000000
15.000:End Threshold	336.000000
15.000:Area Threshold	6720.000000

	Compound	RT	RT Window	RF
$ 1	Tetrachloro-m-xylene	5.633	5.583-5.683	2.29e+006
58	MIREX	16.827	16.777-16.877	1.78e+006
2	Diallate A	7.087	7.037-7.137	9.30e+004
3	Diallate B	7.667	7.617-7.717	2.03e+004
4	HEXACHLOROBENZENE	6.987	6.937-7.037	4.59e+006
5	alpha-BHC	8.380	8.330-8.430	3.06e+006
6	gamma-BHC (Lindane)	9.760	9.710-9.810	2.65e+006
7	beta-BHC	12.187	12.137-12.237	1.66e+006
8	delta-BHC	12.860	12.810-12.910	3.44e+006
9	Chlordane	10.093	10.043-10.143	8.23e+004
		10.687	10.637-10.737	1.74e+005
		13.967	13.917-14.017	3.26e+005
		14.073	14.023-14.123	4.55e+005
10	Heptachlor	10.687	10.637-10.737	2.94e+006
11	Aldrin	11.660	11.610-11.710	2.85e+006
12	Heptachlor epoxide	13.360	13.310-13.410	3.31e+006
13	gamma-Chlordane	13.967	13.917-14.017	3.39e+006
14	alpha-Chlordane	14.067	14.017-14.117	3.31e+006
15	Endosulfan I	13.907	13.857-13.957	3.20e+006
16	4,4'-DDE	14.220	14.170-14.270	3.37e+006
17	Dieldrin	14.507	14.457-14.557	3.40e+006

LD
5890B
DB-701

Report Date : 28-Aug-2000 11:49

STL - Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

	Compound	RT	RT Window	RF
	18 Toxaphene	15.253	15.203-15.303	3.96e+004
		15.560	15.510-15.610	4.93e+004
		16.020	15.970-16.070	5.17e+004
		16.753	16.703-16.803	4.68e+004
	19 Isodrin	12.807	12.757-12.857	3.02e+006
	20 Endrin	14.820	14.770-14.870	3.16e+006
	21 4,4'-DDD	15.367	15.317-15.417	2.46e+006
	22 Endosulfan II	15.520	15.470-15.570	2.86e+006
	23 4,4'-DDT	15.660	15.610-15.710	2.48e+006
	24 Endrin aldehyde	16.187	16.137-16.237	1.34e+006
	25 Methoxychlor	16.700	16.650-16.750	1.17e+006
	26 Endosulfan sulfate	16.773	16.723-16.823	1.75e+006
	27 Endrin ketone	17.740	17.690-17.790	2.06e+006
	28 Chlorobenzilate	15.133	15.083-15.183	1.73e+005
	29 Kepone	17.753	17.703-17.803	3.85e+003
$	30 Decachlorobiphenyl	20.060	20.010-20.110	1.69e+006

GE
589048
DB1701

Report Date : 10-Aug-2000 10:15

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 07-AUG-2000 15:52
End Cal Date : 08-AUG-2000 01:35
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\QPITPA02\D\chem\gc4.i\5080-G.b\PESTB.m
Cal Date : 10-Aug-2000 10:13 colussyj
Curve Type : Average

Calibration File Names:
Level 1: \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5169.d
Level 2: \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5170.d
Level 3: \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5171.d
Level 4: \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5172.d
Level 5: \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5173.d

Compound	0.00500 Level 1	0.01000 Level 2	0.02500 Level 3	0.05000 Level 4	0.10000 Level 5	RRF	% RSD
58 MIREX	1717200	1905900	1858960	1704380	1699680	1777224	5.496
2 Diallate A	103950	93024	99998	82384	85644	93000	9.850
3 Diallate B	20490	19356	22592	18885	20126	20290	7.062
4 HEXACHLOROBENZENE	4802600	5203200	4812200	4191820	3941180	4590200	11.162
5 alpha-BHC	2667000	2830800	3055520	3330260	3438180	3064352	10.612
6 gamma-BHC (Lindane)	2382000	2511200	2643320	2831260	2893030	2652162	8.065
7 beta-BHC	1626400	1702800	1618720	1725080	1640460	1662692	2.892
8 delta-BHC	2971800	3297300	3341200	3772520	3793980	3435360	10.137
9 Chlordane(1)	+++++	+++++	82268	+++++	+++++	82268	0.000
(2)	+++++	+++++	173988	+++++	+++++	173988	0.000
(3)	+++++	+++++	326140	+++++	+++++	326140	0.000
(4)	+++++	+++++	455048	+++++	+++++	455048	0.000
10 Heptachlor	2845000	2881500	2932480	3021840	3018560	2939876	2.709
11 Aldrin	2564400	2788000	2758080	3062260	3068470	2848242	7.584
12 Heptachlor epoxide	3088200	3294800	3215840	3521580	3447520	3313588	5.268
13 gamma-Chlordane	3213400	3424900	3273400	3491400	3557250	3392070	4.278
14 alpha-Chlordane	3213400	3331200	3185280	3357060	3451710	3307730	3.298
15 Endosulfan I	3116400	3197300	3153200	3268060	3244960	3195984	1.964
16 4,4'-DDE	3204200	3353600	3274240	3502640	3506290	3368194	4.013
17 Dieldrin	3261600	3314800	3365760	3501500	3534780	3395688	3.483
18 Toxaphene(1)	+++++	+++++	39627	+++++	+++++	39627	0.000
(2)	+++++	+++++	49318	+++++	+++++	49318	0.000
(3)	+++++	+++++	51662	+++++	+++++	51662	0.000
(4)	+++++	+++++	46756	+++++	+++++	46756	0.000
19 Isodrin	2860600	2804280	3396740	2897987	3140960	3020113	8.168
20 Endrin	3703000	3244100	2903400	2961360	2997380	3161848	10.414

Report Date : 10-Aug-2000 10:15

UDE Lm 8/10/00
589048
D01201

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 07-AUG-2000 15:52
End Cal Date : 08-AUG-2000 01:35
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\QPITPA02\D\chem\gc4.i\5080-G.b\PESTB.m
Cal Date : 10-Aug-2000 10:13 colussyj
Curve Type : Average

	Compound	0.00500 Level 1	0.01000 Level 2	0.02500 Level 3	0.05000 Level 4	0.10000 Level 5	___ RRF	% RSD
	21 4,4'-DDD	2577600	2487900	2352760	2418220	2456840	2458664	3.394
	22 Endosulfan II	2994400	2894500	2709280	2852400	2862900	2862696	3.579
	23 4,4'-DDT	2456000	2464900	2422640	2537100	2542800	2484688	2.129
	24 Endrin aldehyde	1240600	1334300	1306320	1402820	1418550	1340518	5.426
	25 Methoxychlor	1159000	1166100	1155580	1186610	1171330	1167724	1 045
	26 Endosulfan sulfate	1617000	1735800	1695280	1847580	1862520	1751636	5.923
	27 Endrin ketone	1945000	2106500	2014480	2148860	2106920	2064352	4.014
	~~28 Chlorobenzilate~~	~~******~~	~~151000~~	~~196460~~	~~161240~~	~~182290~~	~~172748~~	~~11.857~~
	29 Kepone	4100	4240	3904	3315	3673	3846	9.511
$	1 Tetrachloro-m-xylene	2408400	2410900	2242520	2218520	2151030	2286274	5.140
$	30 Decachlorobiphenyl	1669400	1747300	1676520	1702600	1659770	1691118	2.081

Lm 8/10/00

670 318

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: 4140-G

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 08/07/00 08/08/00

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): Date Analyzed :08/07/00

Lab Sample ID (PEM): EVALB Time Analyzed :1525

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.91	14.86	14.96	0.02243	0.02500	-10.3
4,4'-DDT	15.77	15.72	15.82	0.02457	0.02500	-1.7

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00

Combined % breakdown (1): _____

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL-PITTSBURGH Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: 4140-G

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 08/07/00 08/08/00

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): Date Analyzed :08/08/00

Lab Sample ID (PEM): EVALB Time Analyzed :0258

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.91	14.86	14.96	0.02216	0.02500	-11.4
4,4'-DDT	15.77	15.72	15.82	0.02475	0.02500	-1.0

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00

Combined % breakdown (1): _____

670 320

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 4140-G

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 08/07/00 08/08/00

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): Date Analyzed :08/23/00

Lab Sample ID (PEM): EVALB Time Analyzed :0930

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.82	14.77	14.87	0.02254	0.02500	-9.8
4,4'-DDT	15.66	15.61	15.71	0.02395	0.02500	-4.2

4,4'-DDT % breakdown (1): ~~2.07~~ 2.8 Endrin % breakdown (1): 0.00

Combined % breakdown (1): ~~2.07~~ 2.8

LM
8/29/00

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 4140-G

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 08/07/00 08/08/00

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): Date Analyzed :08/23/00

Lab Sample ID (PEM): EVALB Time Analyzed :2159

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Endrin	14.82	14.77	14.87	0.02268	0.02500	-9.3
4,4'-DDT	15.66	15.61	15.71	0.02391	0.02500	-4.4

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00

Combined % breakdown (1): _____

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5546.d
Report Date: 28-Aug-2000 10:42

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08/7/01

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B5546.d
Analysis Type:
Lab Sample ID: MEDTOX
Method: \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

Injection Date: 23-AUG-2000 09:58
Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Init. Cal. Times: 15:52 01:35
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
18 Toxaphene(1)	39627	41452	0 010	4.6	15.0
(2)	49318	51889	0.010	5.2	15.0
(3)	51662	51653	0.010	-0 0	15.0
(4)	46756	45873	0.010	-1.9	15.0
$ 1 Tetrachloro-m-xylene	2286274	2432280	0.000	6.4	15.0
$ 30 Decachlorobiphenyl	1691118	1767680	0.010	4.5	15.0

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5547.d
Report Date: 28-Aug-2000 10:33

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STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B5547.d
Analysis Type:
Lab Sample ID: MEDCHLOR
Method: \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

Injection Date: 23-AUG-2000 10:26
Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Init. Cal. Times: 15:52 01:35
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
9 Chlordane(1)	82268	90056	0.010	9 5	15.0
(2)	173988	185328	0.010	6.5	15.0
(3)	326140	335012	0.010	2.7	15.0
(4)	455048	454768	0.010	-0.1	15.0
$ 1 Tetrachloro-m-xylene	2286274	2506400	0 000	9.6	15.0
$ 30 Decachlorobiphenyl	1691118	1804360	0.010	6.7	15.0

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5548.d
Report Date: 28-Aug-2000 10:33

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B5548.d
Analysis Type:
Lab Sample ID: MEDA
Method: \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

Injection Date: 23-AUG-2000 10:54
Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Init. Cal. Times: 15:52 01:35
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
$	1 Tetrachloro-m-xylene	2286274	2457880	0.000	7.5	15.0
	5 alpha-BHC	3064352	3275640	0.010	6.9	15.0
	6 gamma-BHC (Lindane)	2652162	2893720	0.010	9.1	15.0
	10 Heptachlor	2939876	3144200	0.010	7 0	15.0
	15 Endosulfan I	3195984	3393120	0.010	6.2	15.0
	17 Dieldrin	3395688	3568680	0.010	5.1	15.0
	20 Endrin	3161848	2983760	0 010	-5.6	15.0
	21 4,4'-DDD	2458664	2523760	0.010	2.6	15 0
	23 4,4'-DDT	2484688	2414760	0.010	-2 8	15.0
	25 Methoxychlor	1167724	1157240	0.010	-0 9	15.0
$	30 Decachlorobiphenyl	1691118	1822160	0.010	7.7	15.0

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5549.d 589045 D61701
Report Date: 28-Aug-2000 10:33

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B5549.d
Analysis Type:
Lab Sample ID: MEDB
Method: \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

Injection Date: 23-AUG-2000 11:21
Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Init. Cal. Times: 15:52 01:35
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
11	Aldrin	2848242	3039800	0.010	6.7	15.0
7	beta-BHC	1662692	1705040	0.010	2.5	15.0
8	delta-BHC	3435360	3235560	0.010	-5.8	15.0
12	Heptachlor epoxide	3313588	3540520	0.010	6.8	15.0
13	gamma-Chlordane	3392070	3545160	0.010	4.5	15.0
14	alpha-Chlordane	3307730	3486280	0.010	5.4	15.0
16	4,4'-DDE	3368194	3558040	0.010	5.6	15.0
22	Endosulfan II	2862696	2822720	0.010	-1.4	15.0
24	Endrin aldehyde	1340518	1378280	0.010	2 8	15.0
26	Endosulfan sulfate	1751636	1597600	0.010	-8.8	15.0
27	Endrin ketone	2064352	2139560	0.010	3.6	15.0

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5570.d
Report Date: 28-Aug-2000 10:38

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STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B5570.d
Analysis Type:
Lab Sample ID: MEDA
Method: \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

Injection Date: 23-AUG-2000 21:04
Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Init. Cal. Times: 15:52 01:35
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
$	1 Tetrachloro-m-xylene	2286274	2414920	0.000	5.6	15.0
	5 alpha-BHC	3064352	3206080	0.010	4.6	15.0
	6 gamma-BHC (Lindane)	2652162	2776320	0.010	4.7	15.0
	10 Heptachlor	2939876	2965040	0.010	0.9	15.0
	15 Endosulfan I	3195984	3208680	0.010	0.4	15.0
	17 Dieldrin	3395688	3430960	0.010	1.0	15.0
	20 Endrin	3161848	2991040	0.010	-5.4	15.0
	21 4,4'-DDD	2458664	2466640	0.010	0 3	15.0
	23 4,4'-DDT	2484688	2403200	0.010	-3.3	15.0
	25 Methoxychlor	1167724	1168980	0.010	0.1	15.0
$	30 Decachlorobiphenyl	1691118	1784200	0.010	5.5	15.0

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Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5571.d
Report Date: 28-Aug-2000 10:38

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B5571.d
Analysis Type:
Lab Sample ID: MEDB
Method: \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

Injection Date: 23-AUG-2000 21:32
Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Init. Cal. Times: 15:52 01:35
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
11 Aldrin	2848242	2968560	0.010	4 2	15.0
7 beta-BHC	1662692	1640360	0.010	-1.3	15.0
8 delta-BHC	3435360	3299720	0.010	-3.9	15.0
12 Heptachlor epoxide	3313588	3358440	0.010	1.4	15.0
13 gamma-Chlordane	3392070	3389840	0.010	-0 1	15.0
14 alpha-Chlordane	3307730	3339520	0.010	1.0	15.0
16 4,4'-DDE	3368194	3419760	0.010	1.5	15.0
22 Endosulfan II	2862696	2768840	0.010	-3.3	15.0
24 Endrin aldehyde	1340518	1332280	0.010	-0.6	15 0
26 Endosulfan sulfate	1751636	1721160	0.010	-1.7	15.0
27 Endrin ketone	2064352	2158640	0.010	4.6	15.0

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5593.d
Report Date: 28-Aug-2000 11:11

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STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B5593.d
Analysis Type:
Lab Sample ID: MEDA
Method: \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

Injection Date: 24-AUG-2000 07:41
Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Init. Cal. Times: 15:52 01:35
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
$	1 Tetrachloro-m-xylene	2286274	2434280	0.000	6.5	15.0
	5 alpha-BHC	3064352	3232760	0.010	5.5	15.0
	6 gamma-BHC (Lindane)	2652162	2810320	0.010	6.0	15.0
	10 Heptachlor	2939876	3054320	0.010	3.9	15.0
	15 Endosulfan I	3195984	3285360	0.010	2.8	15.0
	17 Dieldrin	3395688	3589840	0.010	5.7	15.0
	20 Endrin	3161848	2948520	0.010	-6.7	15.0
	21 4,4'-DDD	2458664	2444360	0.010	-0.6	15.0
	23 4,4'-DDT	2484688	2401520	0.010	-3.3	15.0
	25 Methoxychlor	1167724	1161360	0.010	-0.5	15.0
$	30 Decachlorobiphenyl	1691118	1825040	0 010	7.9	15.0

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5594.d
Report Date: 28-Aug-2000 11:12

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: D-B5594.d
Analysis Type:
Lab Sample ID: MEDB
Method: \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

Injection Date: 24-AUG-2000 08:09
Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Init. Cal. Times: 15:52 01:35
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D
11 Aldrin	2848242	2973640	0.010	4.4	15.0
7 beta-BHC	1662692	1668520	0.010	0.4	15.0
8 delta-BHC	3435360	3234040	0.010	-5.9	15.0
12 Heptachlor epoxide	3313588	3490760	0.010	5.3	15.0
13 gamma-Chlordane	3392070	3495760	0 010	3.1	15.0
14 alpha-Chlordane	3307730	3445280	0.010	4.2	15.0
16 4,4'-DDE	3368194	3452080	0.010	2.5	15.0
22 Endosulfan II	2862696	2805120	0.010	-2.0	15.0
24 Endrin aldehyde	1340518	1343640	0.010	0.2	15.0
26 Endosulfan sulfate	1751636	1685800	0.010	-3.8	15.0
27 Endrin ketone	2064352	2118600	0.010	2.6	15.0

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0H170113

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 08/07/00 08/08/00

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.63 DCB: 20.06

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		EVALB	08/07/00	1525	5.73*	20.28*
02		MEDTOX	08/07/00	1552	5.72*	20.28*
03		MEDCHLOR	08/07/00	1620	5.73*	20.29*
04		LOWA	08/07/00	2125	5.73*	20.27*
05		MLOWA	08/07/00	2153	5.73*	20.27*
06		MEDA	08/07/00	2221	5.73*	20.27*
07		MHIGHA	08/07/00	2249	5.74*	20.27*
08		HIGHA	08/07/00	2316	5.73*	20.27*
09		LOWB	08/07/00	2344		
10		MLOWB	08/08/00	0012		
11		MEDB	08/08/00	0039		
12		MHIGHB	08/08/00	0107		
13		HIGHB	08/08/00	0135		
14		2ND A	08/08/00	0203	5.73*	20.26*
15		2ND B	08/08/00	0230		
16		EVALB	08/08/00	0258	5.75*	20.27*
17		EVALB	08/23/00	0930	5.63	20.06
18		MEDTOX	08/23/00	0958	5.63	20.06
19		MEDCHLOR	08/23/00	1026	5.63	20.06
20		MEDA	08/23/00	1054	5.63	20.06
21		MEDB	08/23/00	1121		
22		MEDA	08/23/00	2104	5.63	20.06
23		MEDB	08/23/00	2132		
24		EVALB	08/23/00	2159	5.63	20.06
25	PBLK4434	DJ6M5101	08/24/00	0237	5.63	20.05
26	LCS4434	DJ6M5102	08/24/00	0304	5.63	20.06
27	DF/S1/0228/G	DJ0QL104	08/24/00	0550	5.63	20.05
28		MEDA	08/24/00	0741	5.63	20.05
29		MEDB	08/24/00	0809		
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\5080-G.SEQ
Created by : DE11/02/98 on : 8/7/00 18:00
Edited by : DE08/07/00 on : 8/7/00 18:19
Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
REVIEWED BY:

Number of Times Edited : 1

DE 8/7/00

Sequence File Header Information:

Number of Rows : 54
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB,5080-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
2	Cal:Replace	MEDTOX,5080-G.b	190-98-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR,5080-G	190-85-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Cal:Replace	LOWIX,5080-G.b,	190-80-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MLOWIX,5080-G.b	190-80-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	MEDIX,5080-G.b,	190-80-8		1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
7	Cal:Replace	MHIGHIX,5080-G.	190-80-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
8	Cal:Replace	HIGHIX,5080-G.b	190-80-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
9	Cal:Replace	LOWF,5080-G.b,,	190-74-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
10	Cal:Replace	MLOWF,5080-G b,	190-74-2		1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
11	Cal:Replace	MEDF,5080-G.b,,	190-74-3		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	MHIGHF,5080-G.b	190-74-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
13	Cal:Replace	HIGHF,5080-G.b,	190-74-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
14	Cal:Replace	LOWA,5080-G.b,,	190-84-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Cal:Replace	MLOWA,5080-G b,	190-84-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Cal:Replace	MEDA,5080-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Cal:Replace	MHIGHA,5080-G.b	190-84-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Cal:Replace	HIGHA,5080-G.b,	190-84-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Cal:Replace	LOWB,5080-G.b,,	190-84-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
20	Cal:Replace	MLOWB,5080-G b,	190-84-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Cal:Replace	MEDB,5080-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Cal:Replace	MHIGHB,5080-G.b	190-84-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Cal:Replace	HIGHB,5080-G.b,	190-84-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Std Check	2ND A,5080-G.b,	190-82-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Std Check	2ND B,5080-G.b,	190-82-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Std Check	EVALB,5080-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DGRC1101,5080-G	140198BLK		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
28	Sample	DGRC1102,5080-G	140198LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DGRC1103,5080-G	140198LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DG7T7101,5080-G	140198018		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
31	Sample	DG7T7101,5080-G	140198018		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
32	Sample	DG7T7101,5080-G	140198018		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DG7TA101,5080-G	140198019		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DG7TA101,5080-G	140198019		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DG7TA101,5080-G	140198019		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
36	Sample	DG7TC101,5080-G	140198020		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	DG7TC101,5080-G	140198020		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
38	Sample	DG7TC101,5080-G	140198020		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample	DGD7P101,5080-G	180137004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DGD7P10L,5080-G	180137004S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
41	Sample	DGD7P10M,5080-G	180137004D		1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
42	Sample	DGM9M101,5080-G	180137BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DGM9M102,5080-G	180137LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DHEH6101,5080-G	030147BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DHEH6102,5080-G	030147LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
46	Sample	DHEH6103,5080-G	030147LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Std Check	MEDA,5080-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Std Check	MEDB,5080-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Std Check	EVALB,5080-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DH991102,5080-G	030147019		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DHA8R102,5080-G	030241009		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DHA9A102,5080-G	030241012		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Std Check	MEDA,5080-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Std Check	MEDB,5080-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0 000	100 000
					1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000

Sequence Process Information - Channel A

Row	Site	Rack	Vial	Inst	Process	Calib	Report	Raw	Result	Baseline	Modified	Cal	Level	Update	Out

670 332

				Method	Method	Method	Format	File	File	File	Raw File	Rpt	Name	RT	Dev
1	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5151	D-A5151		D-A5151	-	-	-	LPT1
2	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A5152	D-A5152		D-A5152	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A5153	D-A5153		D-A5153	N	MED	N	LPT1:,LP
4	-	1	9	GEN4C	GEN4A	122190A	INDA	D-A5154	D-A5154		D-A5154	N	LOW	N	LPT1:
5	-	1	10	GEN4C	GEN4A	122190A	INDA	D-A5155	D-A5155		D-A5155	N	MLOW	N	LPT1:
6	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A5156	D-A5156		D-A5156	N	MLOW	N	LPT1
7	-	1	12	GEN4C	GEN4A	122190A	INDA	D-A5157	D-A5157		D-A5157	N	MLOW	N	LPT1
8	-	1	13	GEN4C	GEN4A	122190A	INDA	D-A5158	D-A5158		D-A5158	N	MLOW	N	LPT1:
9	-	1	4	GEN4C	GEN4A	122190A	INDA	D-A5159	D-A5159		D-A5159	N	LOW	N	LPT1
10	-	1	5	GEN4C	GEN4A	122190A	INDA	D-A5160	D-A5160		D-A5160	N	MLOW	N	LPT1
11	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A5161	D-A5161		D-A5161	N	MLOW	N	LPT1
12	-	1	7	GEN4C	GEN4A	122190A	INDA	D-A5162	D-A5162		D-A5162	N	MLOW	N	LPT1:
13	-	1	8	GEN4C	GEN4A	122190A	INDA	D-A5163	D-A5163		D-A5163	N	MLOW	N	LPT1:
14	-	1	4	GEN4C	GEN4A	122190A	INDA	D-A5164	D-A5164		D-A5164	N	LOW	N	LPT1
15	-	1	5	GEN4C	GEN4A	122190A	INDA	D-A5165	D-A5165		D-A5165	N	MLOW	N	LPT1:
16	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A5166	D-A5166		D-A5166	N	MLOW	N	LPT1:
17	-	1	7	GEN4C	GEN4A	122190A	INDA	D-A5167	D-A5167		D-A5167	N	MLOW	N	LPT1
18	-	1	8	GEN4C	GEN4A	122190A	INDA	D-A5168	D-A5168		D-A5168	N	MLOW	N	LPT1:
19	-	1	9	GEN4C	GEN4A	122190A	INDA	D-A5169	D-A5169		D-A5169	N	LOW	N	LPT1:
20	-	1	10	GEN4C	GEN4A	122190A	INDA	D-A5170	D-A5170		D-A5170	N	MLOW	N	LPT1
21	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A5171	D-A5171		D-A5171	N	MLOW	N	LPT1
22	-	1	12	GEN4C	GEN4A	122190A	INDA	D-A5172	D-A5172		D-A5172	N	MLOW	N	LPT1:
23	-	1	13	GEN4C	GEN4A	122190A	INDA	D-A5173	D-A5173		D-A5173	N	MLOW	N	LPT1:
24	-	1	23	GEN4C	GEN4A	122190A	INDA	D-A5174	D-A5174		D-A5174	-	-	-	LPT1:
25	-	1	24	GEN4C	GEN4A	122190A	INDA	D-A5175	D-A5175		D-A5175	-	-	-	LPT1
26	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5176	D-A5176		D-A5176	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5177	D-A5177		D-A5177	-	-	-	LPT1
28	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5178	D-A5178		D-A5178	-	-	-	LPT1
29	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5179	D-A5179		D-A5179	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5180	D-A5180		D-A5180	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5181	D-A5181		D-A5181	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5182	D-A5182		D-A5182	-	-	-	LPT1.
33	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5183	D-A5183		D-A5183	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5184	D-A5184		D-A5184	-	-	-	LPT1.
35	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5185	D-A5185		D-A5185	-	-	-	LPT1.
36	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5186	D-A5186		D-A5186	-	-	-	LPT1:
37	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5187	D-A5187		D-A5187	-	-	-	LPT1:
38	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5188	D-A5188		D-A5188	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5189	D-A5189		D-A5189	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5190	D-A5190		D-A5190	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5191	D-A5191		D-A5191	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5192	D-A5192		D-A5192	-	-	-	LPT1
43	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5193	D-A5193		D-A5193	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5194	D-A5194		D-A5194	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5195	D-A5195		D-A5195	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5196	D-A5196		D-A5196	-	-	-	LPT1.
47	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A5197	D-A5197		D-A5197	-	-	-	LPT1:
48	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A5198	D-A5198		D-A5198	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5199	D-A5199		D-A5199	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5200	D-A5200		D-A5200	-	-	-	LPT1
51	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5201	D-A5201		D-A5201	-	-	-	LPT1
52	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A5202	D-A5202		D-A5202	-	-	-	LPT1.
53	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A5203	D-A5203		D-A5203	-	-	-	LPT1:
54	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A5204	D-A5204		D-A5204	-	-	-	LPT1:

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5151.d
Report Date: 10-Aug-2000 09:48

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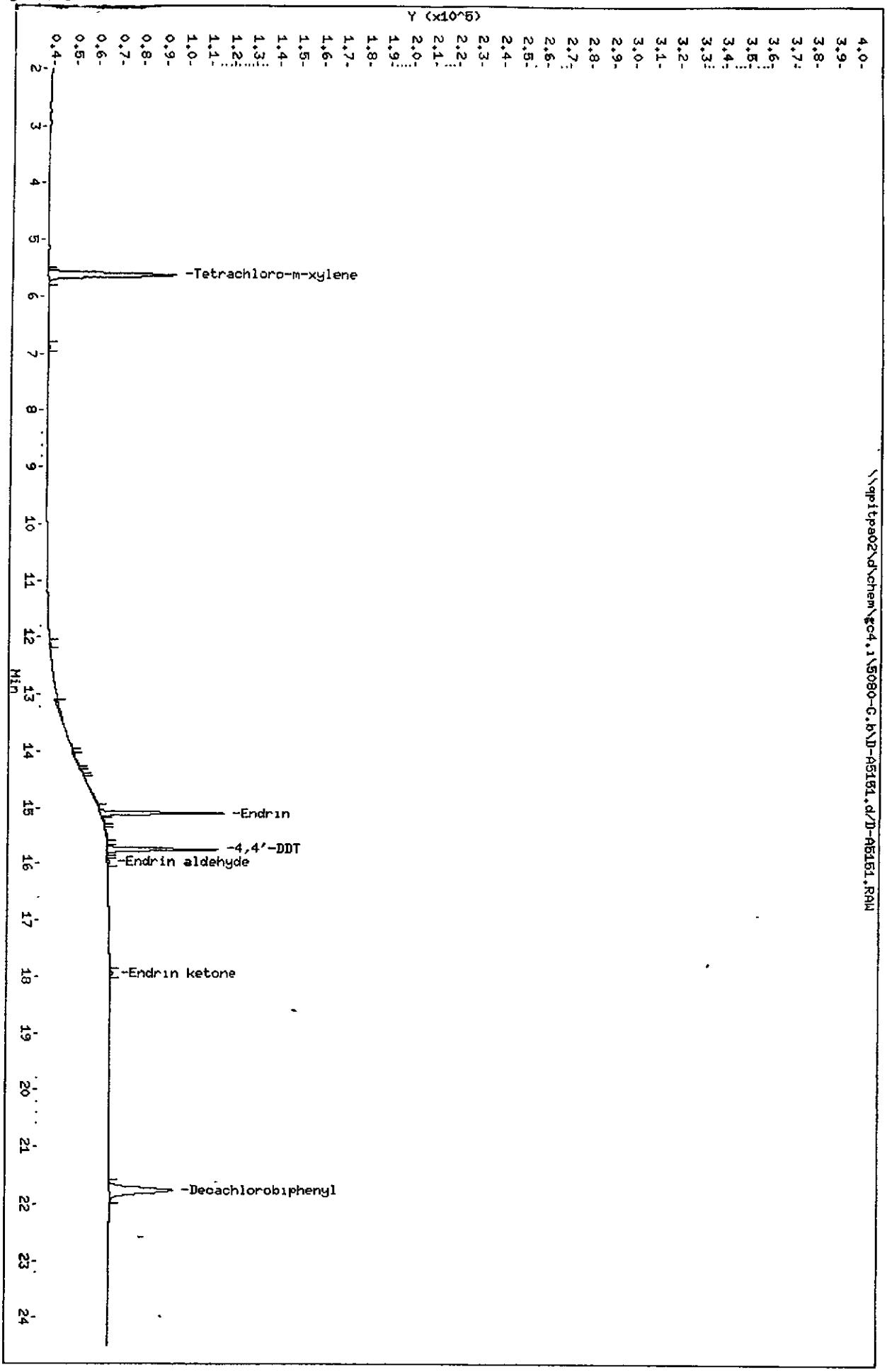
Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5151.d
Lab Smp Id: EVALB
Inj Date : 07-AUG-2000 15:25
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,5080-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-A5173.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ng)
$ 1 Tetrachloro-m-xylene	5 626	5 626	0 000	56739	0 01949	0.01949(R)
16 4,4'-DDE	Compound Not Detected.					
20 Endrin	15 093	15 087	0 006	54940	0 02353	0.02352
21 4,4'-DDD	Compound Not Detected					
23 4,4'-DDT	15 733	15 733	0 000	48966	0.02374	0 02374
24 Endrin aldehyde	15 960	15.947	0 013	B21	<0 0	0 0004363
27 Endrin ketone	17 946	17 933	0 013	1400	<0 0	0 0007414
$ 30 Decachlorobiphenyl	21.760	21 747	0 013	28218	0 01993	0.01993(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT=0
Endrin=39


Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5151.d
Date : 07-AUG-2000 15:25
Client ID:
Sample Info: EVALB,5080-G.b,,EVALBR.sub,3.1
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
\\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5151.d/D-A5151.RAW
-Tetrachloro-m-xylene
-Endrin
-4,4'-DDT
-Endrin aldehyde
-Endrin ketone
-Decachlorobiphenyl

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5152.d
Report Date: 10-Aug-2000 09:48

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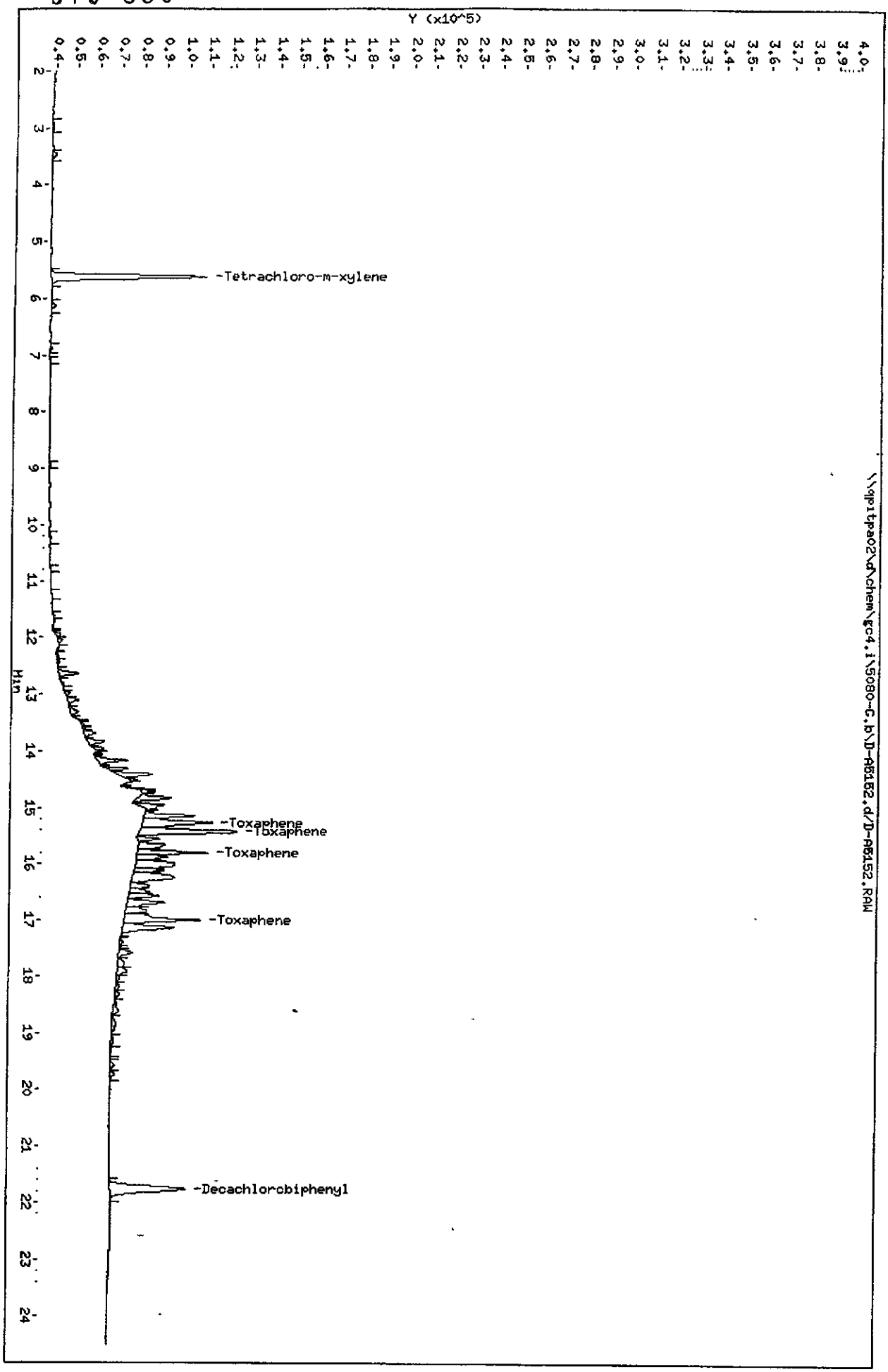
Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5152.d
Lab Smp Id: MEDTOX
Inj Date : 07-AUG-2000 15:52
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDTOX,5080-G.b,,1-TOX.sub,,1,3
Misc Info : 190-98-12
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-A5171.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.04
Processing Host: PITPC044

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
18 Toxaphene	15 260	15.260	0 000	30597	1 00000	1.000
$ 1 Tetrachloro-m-xylene	5.613	5 626	-0 013	69345	0 02500	0 02500
$ 30 Decachlorobiphenyl	21 753	21 747	0.006	33611	0.02500	0.02500

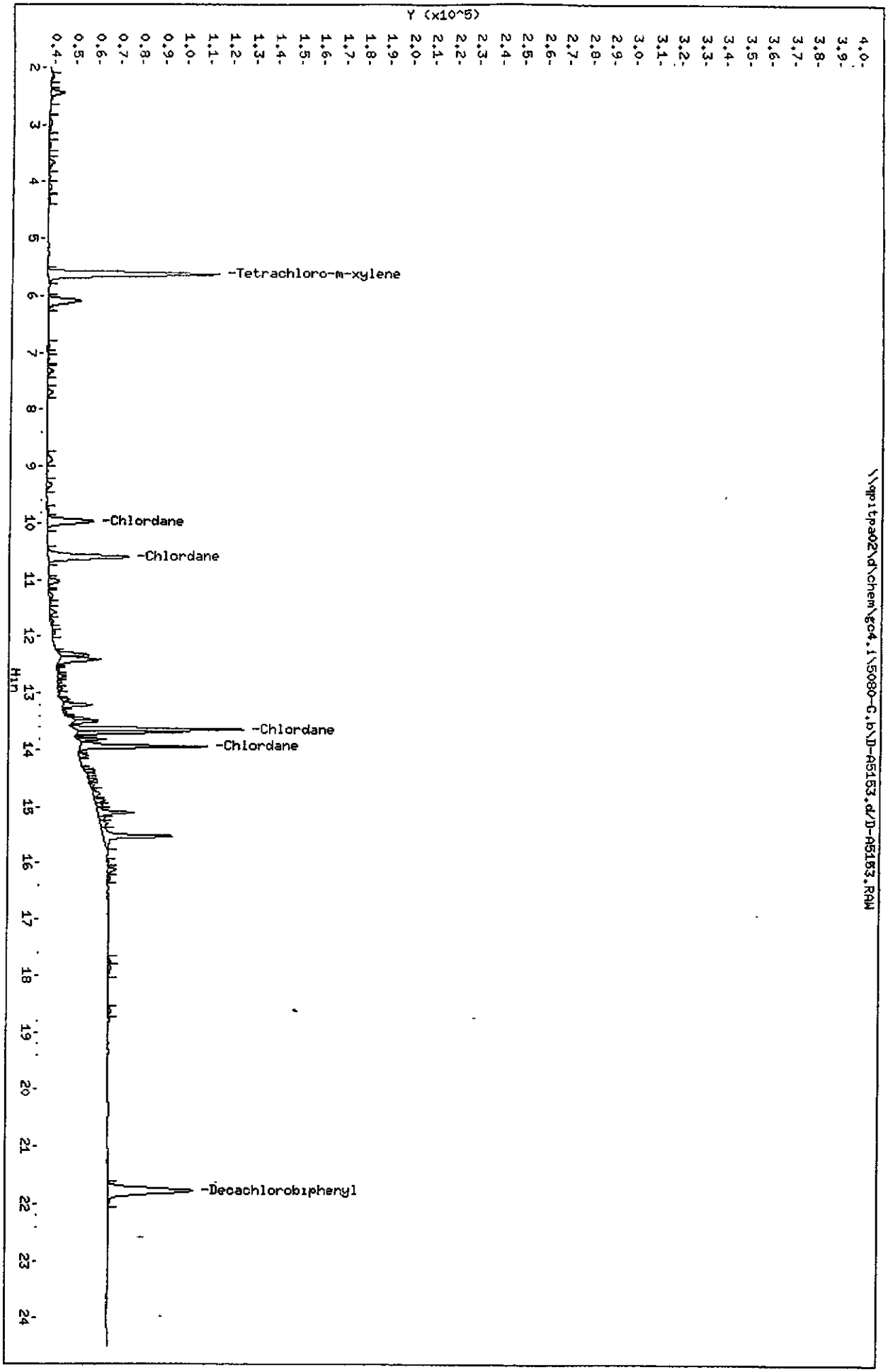

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5152.d
Date : 07-AUG-2000 15:52
Client ID:
Sample Info: MEDTOX,5080-G.b,,1-TOX,sub,,1,3
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5152.d/D-A5152.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-Toxaphene
-Toxaphene
-Toxaphene
-Toxaphene
-Decachlorobiphenyl

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5153.d
Report Date: 10-Aug-2000 09:48

STL Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5153.d
Lab Smp Id: MEDCHLOR
Inj Date : 07-AUG-2000 16:20
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDCHLOR,5080-G.b,,2-CHLO.sub,,1,3
Misc Info : 190-85-10
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-A5171.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
9 Chlordane	9 973	9 973	0 000	21090	0 25000	0.2500
$ 1 Tetrachloro m-xylene	5 620	5 626	0 006	75984	0 02500	0 02500
$ 30 Decachlorobiphenyl	21 766	21 747	0 019	37665	0 02500	0 02500

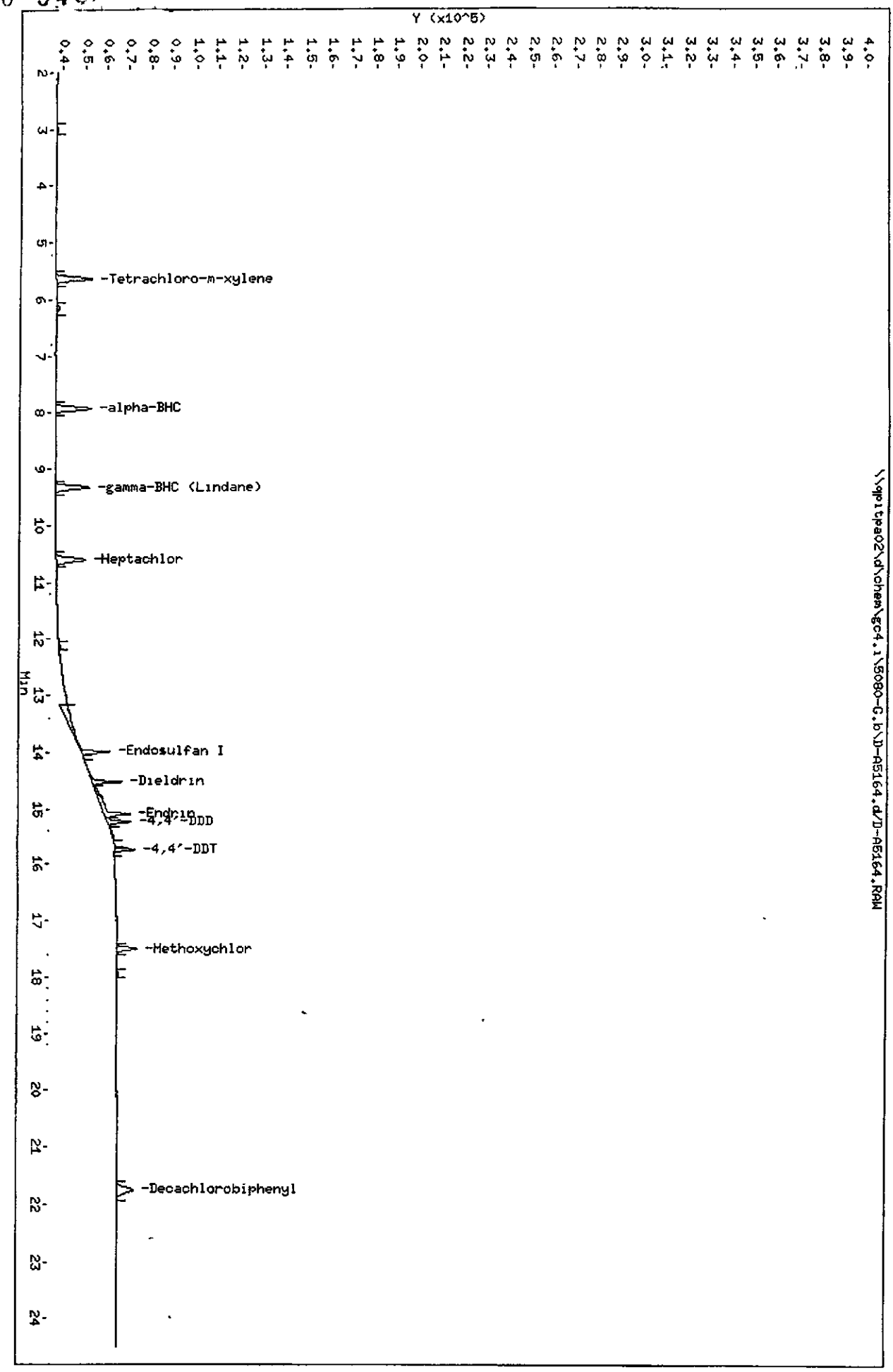

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5153.d
Date : 07-AUG-2000 16:20
Client ID:
Sample Info: MEDCHLOR,5080-G.b,,2-CHLO.sub,1,3
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
\\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5153.d\D-A5153.RAW
Min
-Tetrachloro-m-xylene
-Chlordane
-Chlordane
-Chlordane
-Chlordane
-Decachlorobiphenyl

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5164.d
Report Date: 10-Aug-2000 09:50

STL Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5164.d
Lab Smp Id: LOWA
Inj Date : 07-AUG-2000 21:25
Operator : 1891 Inst ID: gc4.i
Smp Info : LOWA,5080-G.b,,3-INDA.sub,,1,1
Misc Info : 190-84-1
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-A5171.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 Tetrachloro-m-xylene	5 633	5 626	0.007	15853	0.00500	0.005216
5 alpha-BHC	7 920	7 913	0 007	15848	0 00500	0 004767
6 gamma-BHC (Lindane)	9 320	9 313	0 007	15048	0 00500	0 004915
10 Heptachlor	10 600	10.593	0.007	12716	0.00500	0 005089
15 Endosulfan I	13.986	13.987	-0.001	12675	0 00500	0.004914
17 Dieldrin	14.513	14 513	0 000	13587	0 00500	0 004963
20 Endrin	15.086	15.087	-0 001	11660	0.00500	0 005071
21 4,4'-DDD	15 226	15 227	-0.001	11055	0 00500	0.005085
23 4,4'-DDT	15 733	15 733	0.000	9544	0.00500	0 004872
25 Methoxychlor	17.493	17.493	0 000	8916	0 01000	0 009927
$ 30 Decachlorobiphenyl	21 746	21 747	-0 001	7525	0 00500	0.005186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Date : 07-AUG-2000 21:25
Client ID:
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Column phase: DB608
Instrument: gc4.i
Operator: 1691
Column diameter: 0.53
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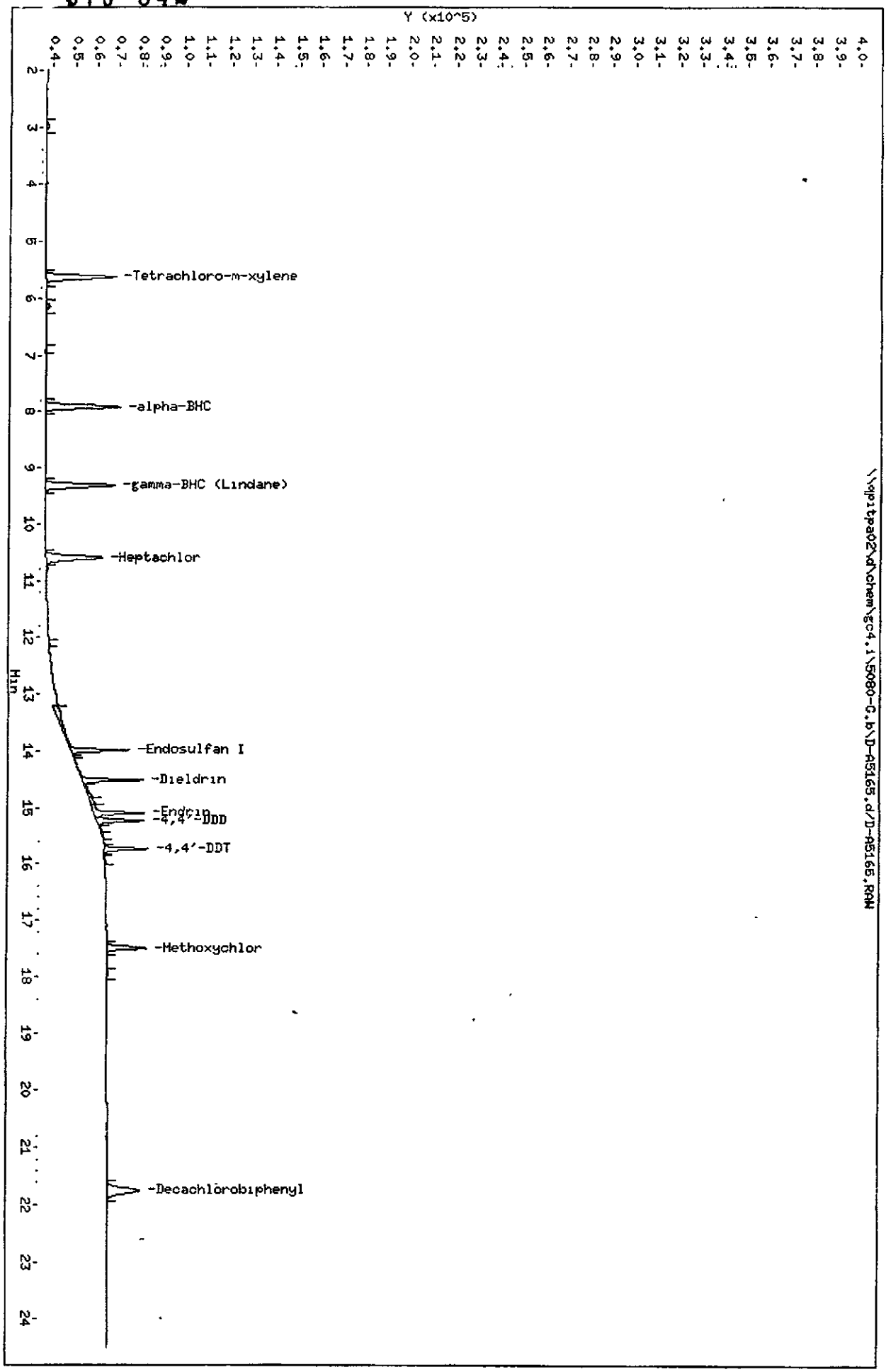
Y (x10^5)
Min
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5165.d
Report Date: 10-Aug-2000 09:50

STL Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5165.d
Lab Smp Id: MLOWA
Inj Date : 07-AUG-2000 21:53
Operator : 1891 Inst ID: gc4.i
Smp Info : MLOWA,5080-G.b,,3-INDA.sub,,1,2
Misc Info : 190-84-2
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-A5171.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	1 Tetrachloro-m-xylene	5.620	5 626	-0 006	31031	0.01000	0 01014
	5 alpha-BHC	7.906	7 913	-0 007	33270	0.01000	0 01000
	6 gamma-BHC (Lindane)	9 313	9 313	0 000	30684	0.01000	0.01002
	10 Heptachlor	10.593	10.593	0 000	25175	0 01000	0.01005
	15 Endosulfan I	13.986	13 987	-0 001	26164	0 01000	0.01010
	17 Dieldrin	14 513	14.513	0.000	27385	0 01000	0.01000
	20 Endrin	15.086	15 087	-0 001	22763	0 01000	0 009933
	21 4,4'-DDD	15 226	15 227	0 001	21464	0.01000	0 009914
	23 4,4'-DDT	15.733	15 733	0 000	19729	0.01000	0.01005
	25 Methoxychlor	17 493	17 493	0 000	18024	0.02000	0.02004
$	30 Decachlorobiphenyl	21 746	21 747	-0.001	14827	0 01000	0.01014



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Sample Info: ML0WA,5080-G.b,3-INDA.sub,1,2
Column phase: DB608

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53

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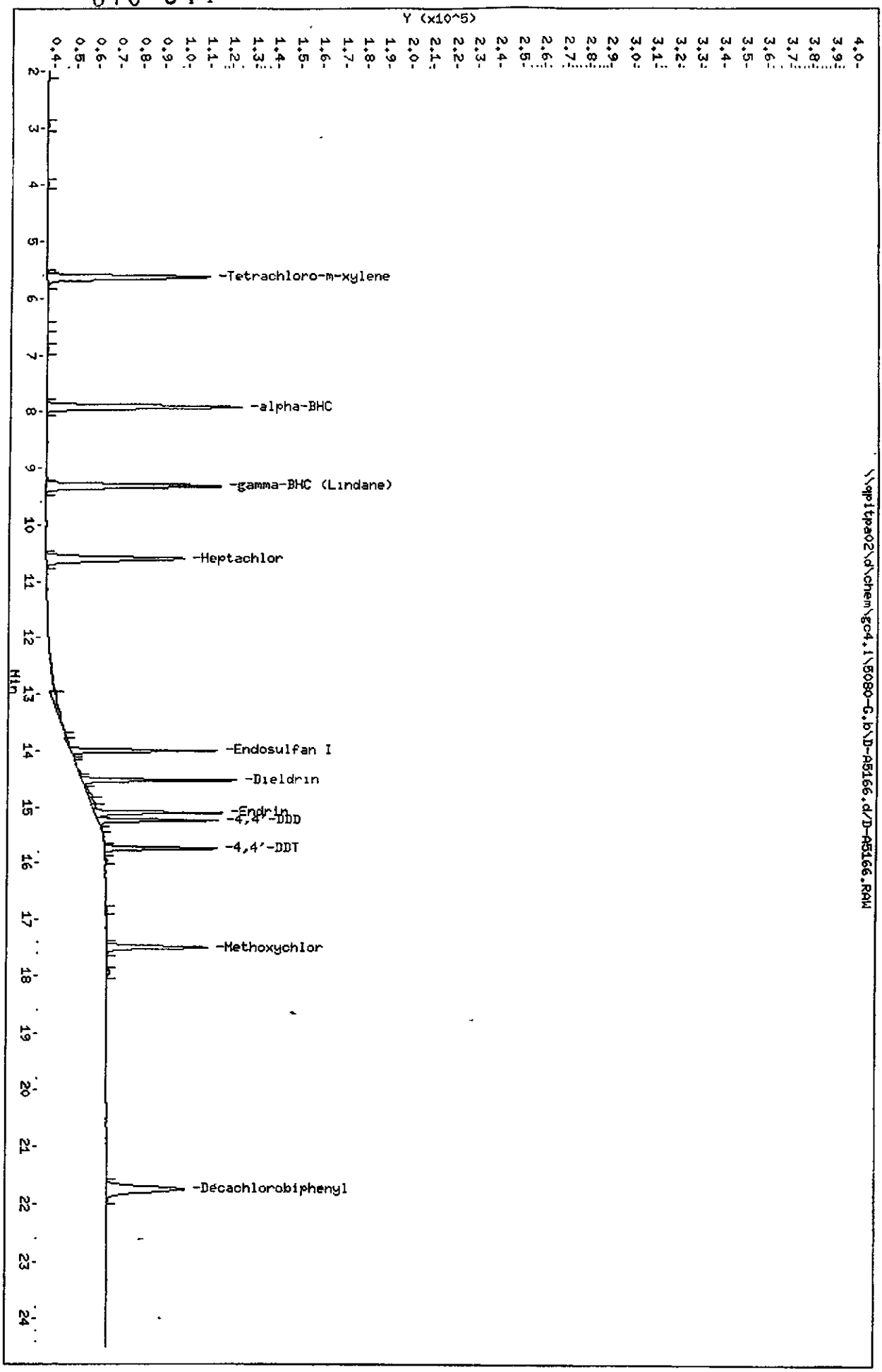
Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5166.d
Lab Smp Id: MEDA
Inj Date : 07-AUG-2000 22:21
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,5080-G.b,,3-INDA.sub,,1,3
Misc Info : 190-84-3
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-A5171.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1	Tetrachloro-m-xylene	5 626	5.626	0 000	72693	0 02500	0 02500
5	alpha-BHC	7 913	7 913	0.000	86990	0.02500	0 02500
6	gamma-BHC (Lindane)	9 313	9 313	0 000	77832	0 02500	0.02500
10	Heptachlor	10 593	10.593	0 000	61364	0 02500	0 02500
15	Endosulfan I	13 986	13.987	-0.001	65590	0.02500	0.02500
17	Dieldrin	14 513	14 513	0 000	68947	0 02500	0.02500
20	Endrin	15 086	15 087	-0 001	56661	0 02500	0.02500
21	4,4'-DDD	15 226	15 227	-0.001	53433	0 02500	0.02500
23	4,4'-DDT	15.733	15.733	0.000	50236	0.02500	0.02500
25	Methoxychlor	17 493	17.493	0 000	45234	0 05000	0 05000
$ 30	Decachlorobiphenyl	21.746	21 747	-0.001	34930	0 02500	0 02500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Date : 07-AUG-2000 22:21
Client ID:
Sample Info: MEDA,5080-G.b,,3-INDA.sub,1,3
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
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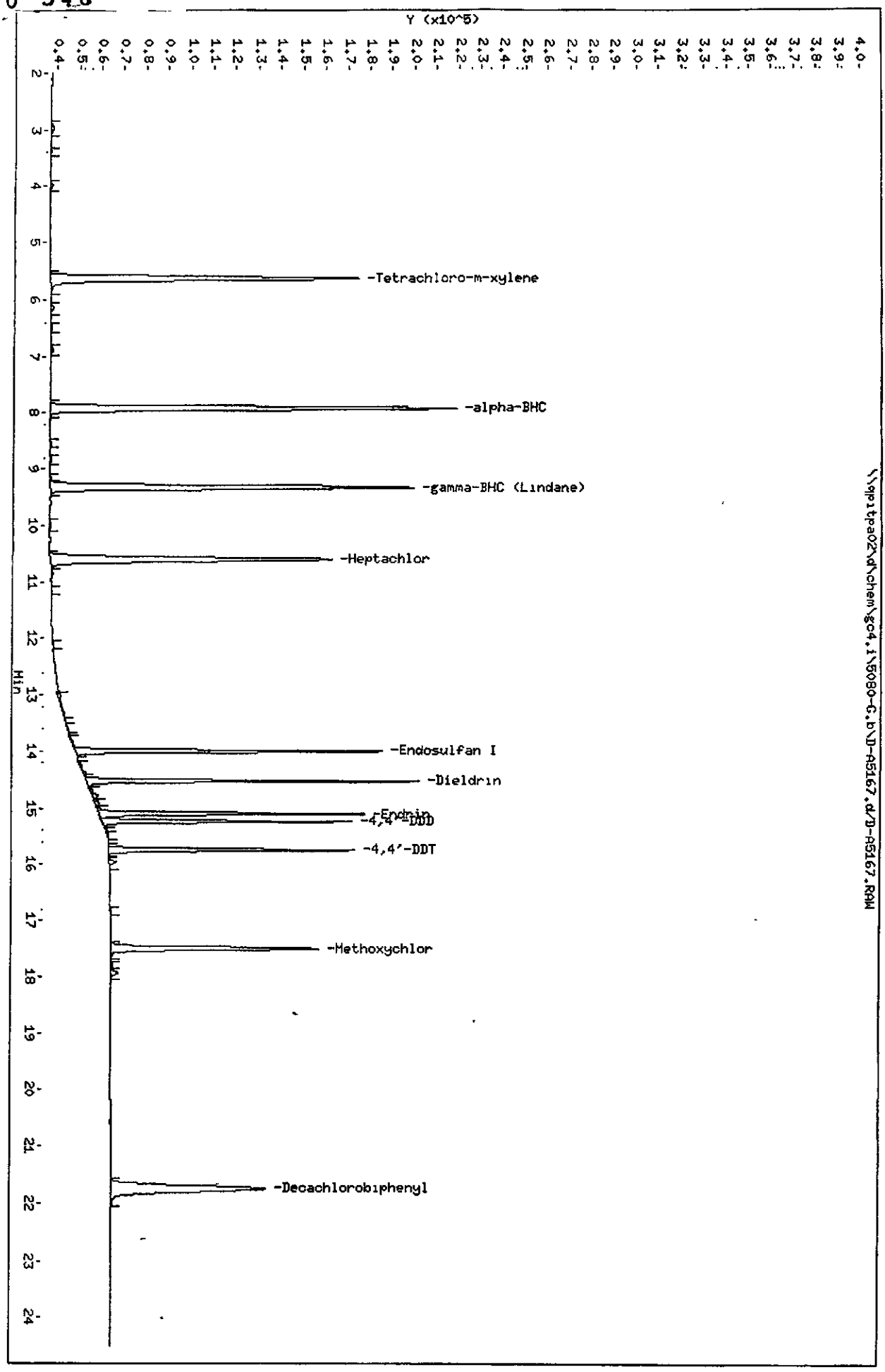
Y (x10^5)
Min
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5167.d
Report Date: 10-Aug-2000 09:50

STL Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5167.d
Lab Smp Id: MHIGHA
Inj Date : 07-AUG-2000 22:49
Operator : 1891 Inst ID: gc4.i
Smp Info : MHIGHA,5080-G.b,,3-INDA.sub,,1,4
Misc Info : 190-84-4
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-A5171.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1	Tetrachloro-m-xylene	5 633	5 626	0.007	137742	0.05000	0 04616
5	alpha-BHC	7 920	7.913	0 007	181782	0 05000	0.05342
6	gamma BHC (Lindane)	9.320	9 313	0 007	162195	0 05000	0.05217
10	Heptachlor	10 600	10 593	0.007	125021	0 05000	0.04993
15	Endosulfan I	13.986	13 987	-0.001	137092	0.05000	0 05214
17	Dieldrin	14 513	14 513	0.000	148279	0 05000	0 05305
20	Endrin	15 093	15 087	0 006	118328	0 05000	0.05122
21	4,4'-DDD	15.226	15.227	-0.001	111620	0 05000	0 05116
23	4,4'-DDT	15 733	15 733	0.000	109268	0 05000	0.05412
25	Methoxychlor	17 493	17 493	0 000	92276	0.10000	0.1020
$ 30	Decachlorobiphenyl	21.746	21 747	-0 001	68778	0 05000	0.04776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Date : 07-AUG-2000 22:49
Client ID:
Sample Info: MHIGH0,5080-G.b,,3-INDM.sub,,1,4
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5167.d\D-A5167.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

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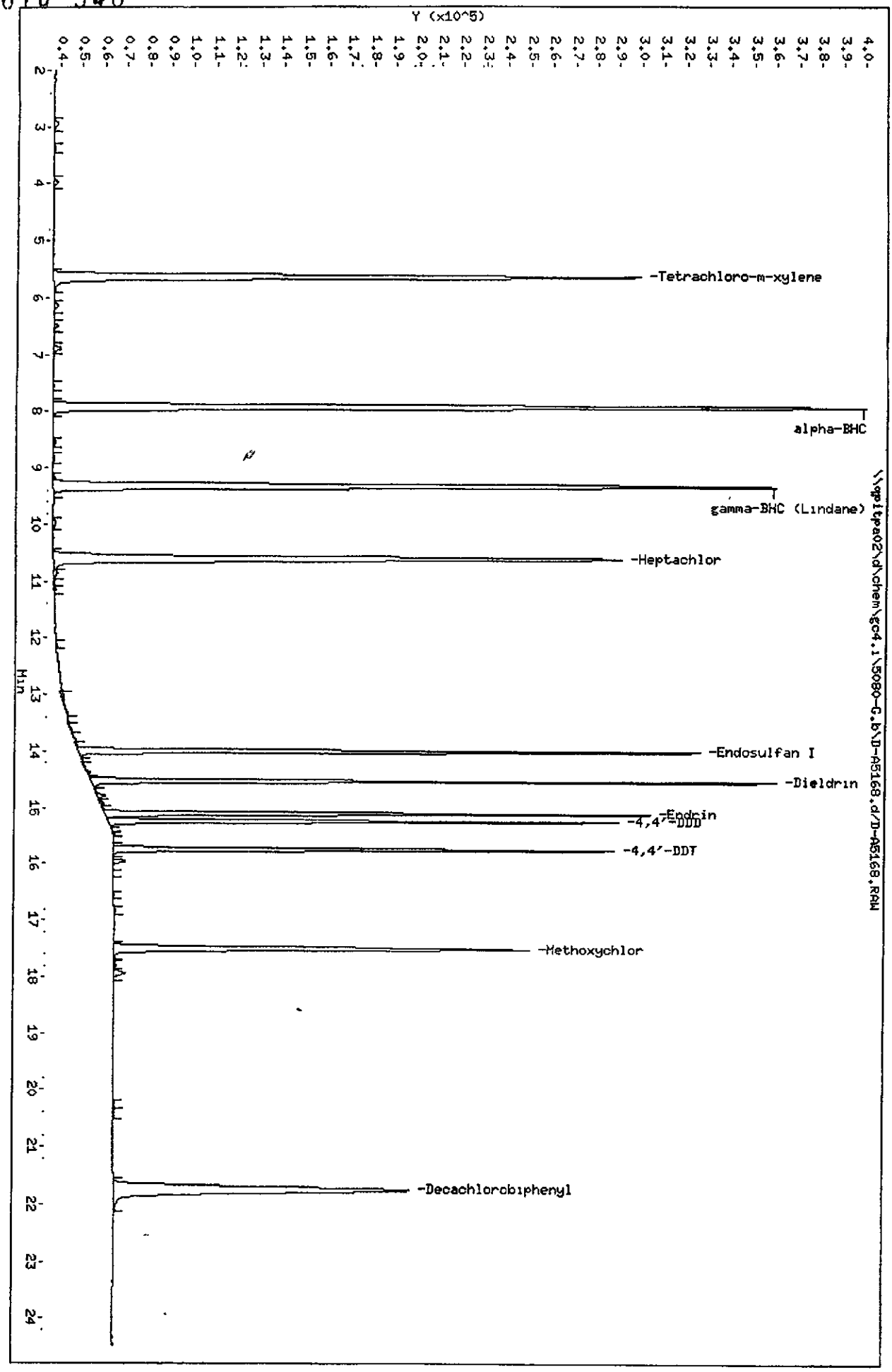
Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5168.d
Lab Smp Id: HIGHA
Inj Date : 07-AUG-2000 23:16
Operator : 1891 Inst ID: gc4.i
Smp Info : HIGHA,5080-G.b,,3-INDA.sub,,1,5
Misc Info : 190-84-5
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-A5171.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
$ 1 Tetrachloro-m xylene	5 626	5 626	0 000	262161	0.10000	0 09004
5 alpha-BHC	7 913	7.913	0 000	365264	0.10000	0 1058(A)
6 gamma-BHC (Lindane)	9 320	9.313	0.007	322032	0 10000	0 1028(A)
10 Heptachlor	10 600	10.593	0.007	253276	0 10000	0.1009(A)
15 Endosulfan I	13.986	13 987	-0 001	277145	0 10000	0 1043(A)
17 Dieldrin	14 513	14.513	0 000	305658	0 10000	0 1074(A)
20 Endrin	15 086	15.087	-0.001	243541	0.10000	0.1043(A)
21 4,4'-DDD	15.226	15 227	-0.001	228258	0.10000	0 1037(A)
23 4,4'-DDT	15.733	15 733	0 000	223635	0.10000	0 1084(A)
25 Methoxychlor	17 493	17.493	0 000	185176	0 20000	0.2037(A)
$ 30 Decachlorobiphenyl	21.746	21 747	-0 001	131858	0 10000	0.09313

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.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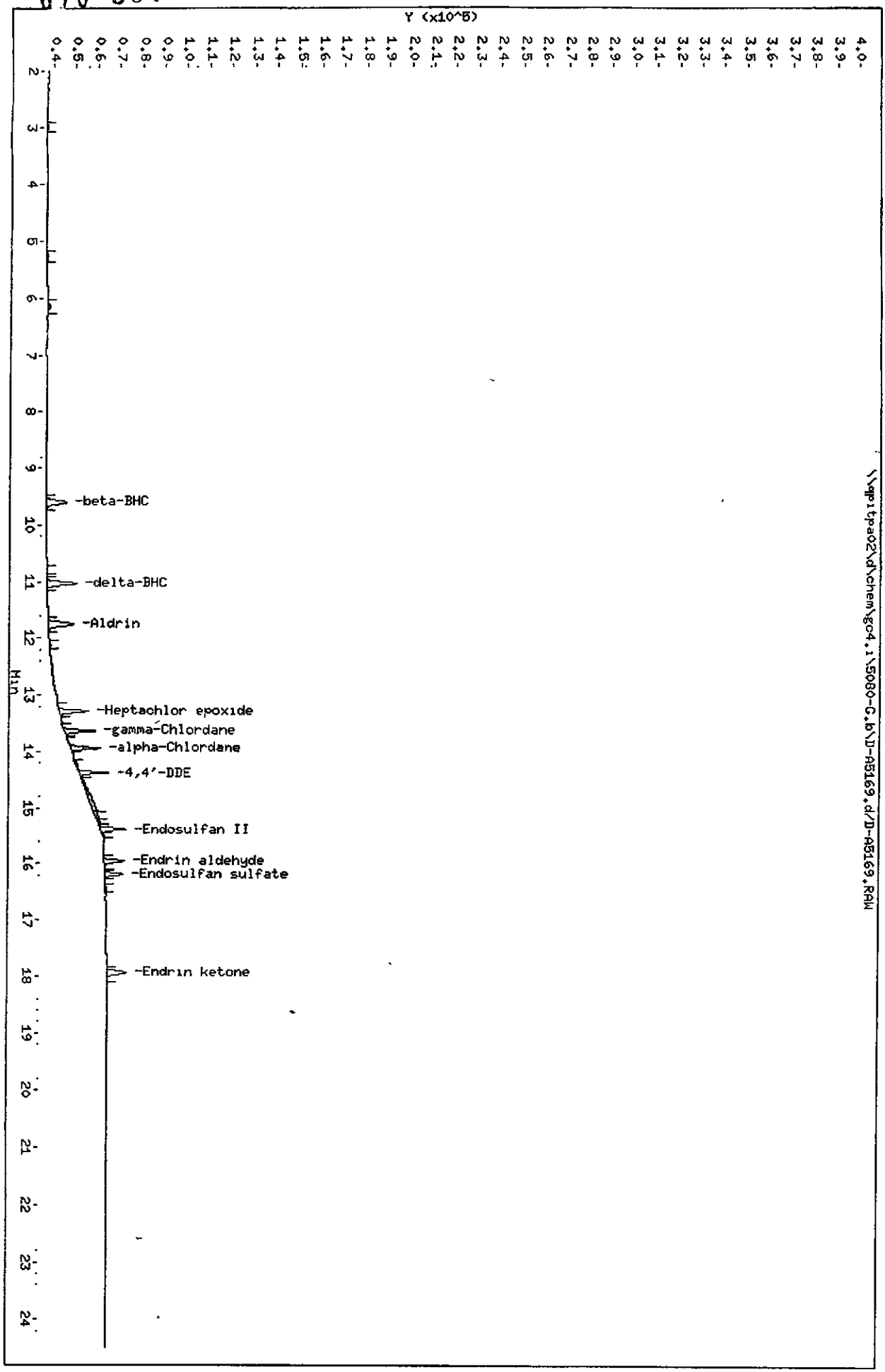
Date : 07-AUG-2000 23:16
Client ID:
Sample Info: HIGHA,5080-G.b,,3-INDA.sub,,1.5
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
Min
\\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5168.d/D-A5168.RAW
-Tetrachloro-m-xylene
alpha-BHC
gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

STL Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5169.d
Lab Smp Id: LOWB
Inj Date : 07-AUG-2000 23:44
Operator : 1891 Inst ID: gc4.i
Smp Info : LOWB,5080-G.b,,4-INDB.sub,,1,1
Misc Info : 190-84-7
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-A5171.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON COL (ng)
11 Aldrin	11.760	11.760	0.000	11236	0.00500	0.004920
7 beta-BHC	9.600	9.600	0.000	9296	0.00500	0.005219
8 delta-BHC	11.033	11.033	0.000	13481	0.00500	0.004758
12 Heptachlor epoxide	13.286	13.287	-0.001	12873	0.00500	0.004928
13 gamma-Chlordane	13.626	13.627	-0.001	13837	0.00500	0.004990
14 alpha-Chlordane	13.933	13.933	0.000	13545	0.00500	0.004894
16 4,4'-DDE	14.373	14.373	0.000	13074	0.00500	0.004848
22 Endosulfan II	15.380	15.380	0.000	11519	0.00500	0.005013
24 Endrin aldehyde	15.946	15.947	-0.001	9241	0.00500	0.005031
26 Endosulfan sulfate	16.180	16.172	0.008	8167	0.00500	0.004862
27 Endrin ketone	17.940	17.933	0.007	8743	0.00500	0.004898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Date : 07-AUG-2000 23:44
Client ID:
Sample Info: LOWB,5080-G,b,,4-INDB,sub,,1,1
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
Y (x10^5)
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Min
-beta-BHC
-delta-BHC
-Aldrin
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

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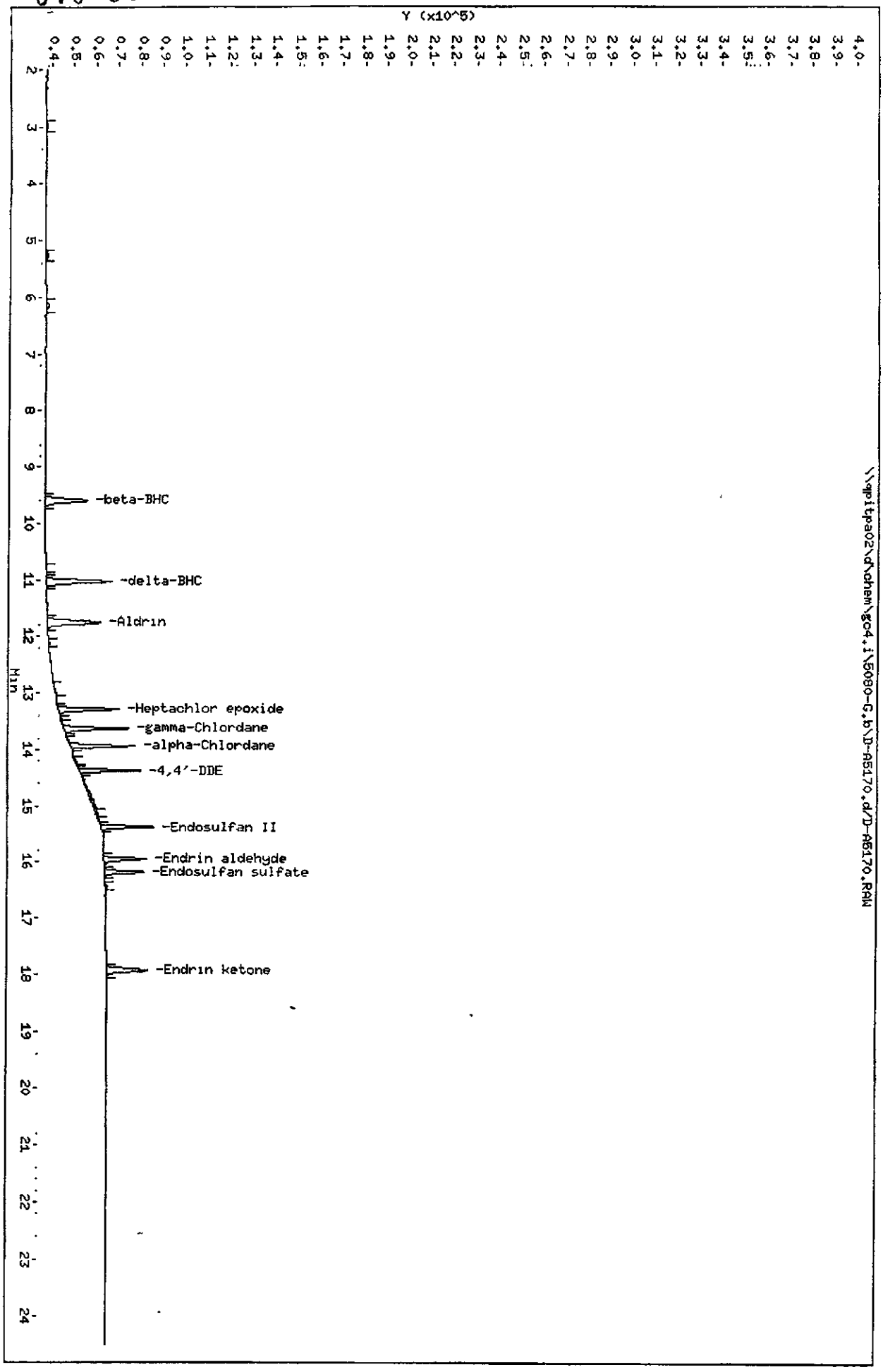
Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5170.d
Lab Smp Id: MLOWB
Inj Date : 08-AUG-2000 00:12
Operator : 1891 Inst ID: gc4.i
Smp Info : MLOWB,5080-G.b,,4-INDB.sub,,1,2
Misc Info : 190-84-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-A5171.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.760	11 760	0.000	23550	0 01000	0.01020
7 beta-BHC	9.600	9.600	0.000	18784	0 01000	0 01036
8 delta-BHC	11.033	11.033	0 000	28990	0.01000	0 01015
12 Heptachlor epoxide	13.286	13 287	0.001	26815	0.01000	0.01018
13 gamma-Chlordane	13 626	13 627	-0.001	28714	0 01000	0 01023
14 alpha-Chlordane	13 933	13 933	0 000	28897	0 01000	0 01029
16 4,4' DDE	14.373	14.373	0.000	27467	0.01000	0.01012
22 Endosulfan II	15 380	15 380	0 000	23637	0.01000	0.01019
24 Endrin aldehyde	15.946	15.947	-0 001	19153	0 01000	0 01028
26 Endosulfan sulfate	16 173	16.172	0 001	17673	0.01000	0 01034
27 Endrin ketone	17 933	17 933	0 000	18580	0 01000	0.01027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Date : 08-AUG-2000 00:12
Client ID:
Sample Info: MLOWB,5080-G,b,,4-INDB.sub,,1,2
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
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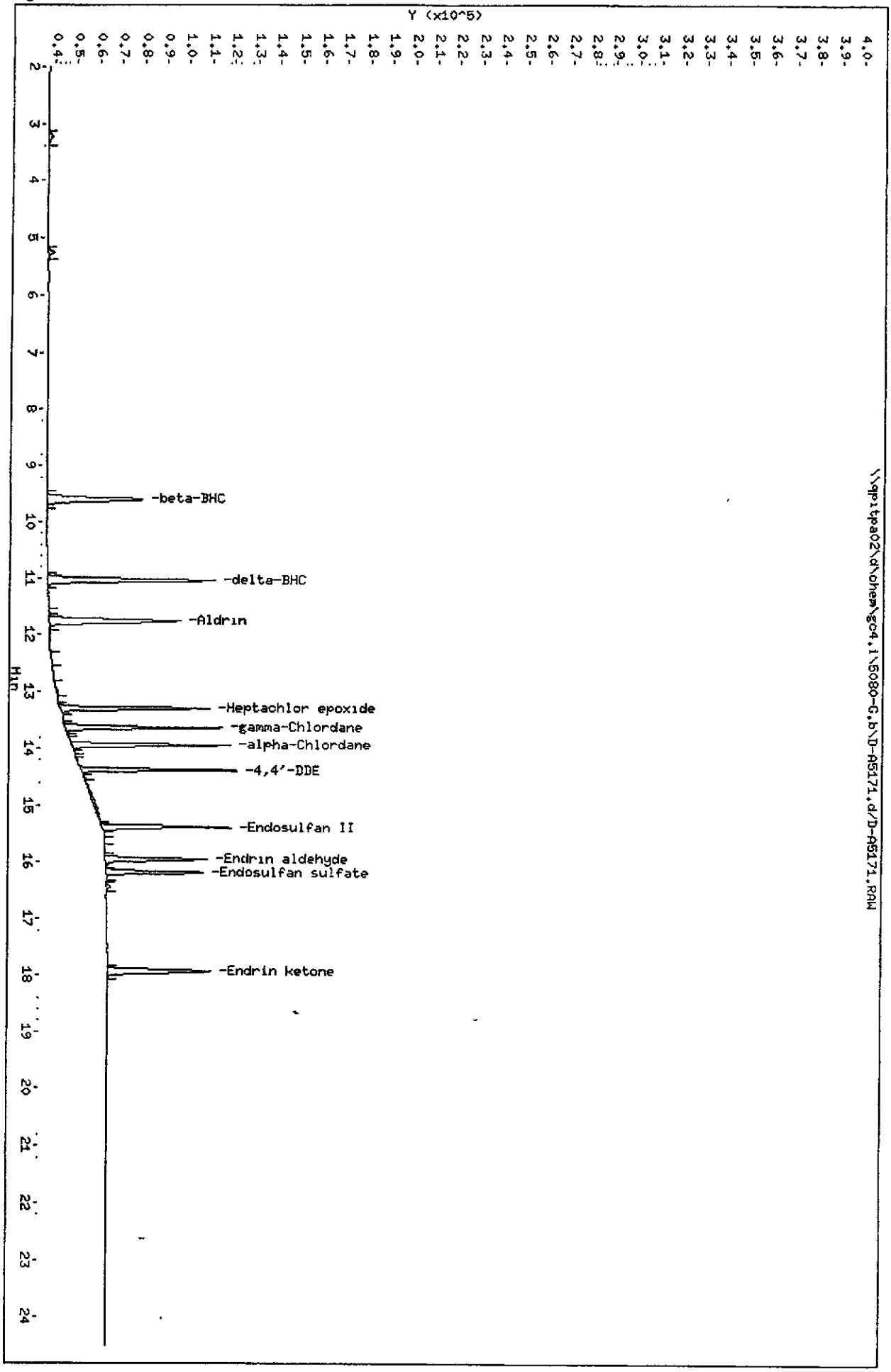
Y (x10^5)
Min
-beta-BHC
-delta-BHC
-Aldrin
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5171.d
Report Date: 10-Aug-2000 09:51

STL Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5171.d
Lab Smp Id: MEDB
Inj Date : 08-AUG-2000 00:39
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,5080-G.b,,4-INDB.sub,,1,3
Misc Info : 190-84-9
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-A5171.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.760	11 760	0.000	58006	0 02500	0 02500
7 beta-BHC	9 600	9.600	0 000	42584	0.02500	0.02500
8 delta-BHC	11 033	11 033	0.000	74273	0.02500	0.02500
12 Heptachlor epoxide	13 286	13 287	-0 001	66246	0.02500	0 02500
13 gamma-Chlordane	13.626	13 627	-0.001	69472	0 02500	0.02500
14 alpha-Chlordane	13 933	13.933	0 000	70643	0 02500	0.02500
16 4,4'-DDE	14 373	14 373	0.000	69461	0 02500	0.02500
22 Endosulfan II	15 380	15 380	0 000	57285	0.02500	0 02500
24 Endrin aldehyde	15.946	15 947	-0 001	45633	0.02500	0 02500
26 Endosulfan sulfate	16 173	16 172	0.001	43154	0 02500	0 02500
27 Endrin ketone	17.933	17 933	0 000	45543	0 02500	0 02500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Date : 08-AUG-2000 00:39
Client ID:
Sample Info: MEDB,5080-C.b,,4-INDB.sub,,1,3
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
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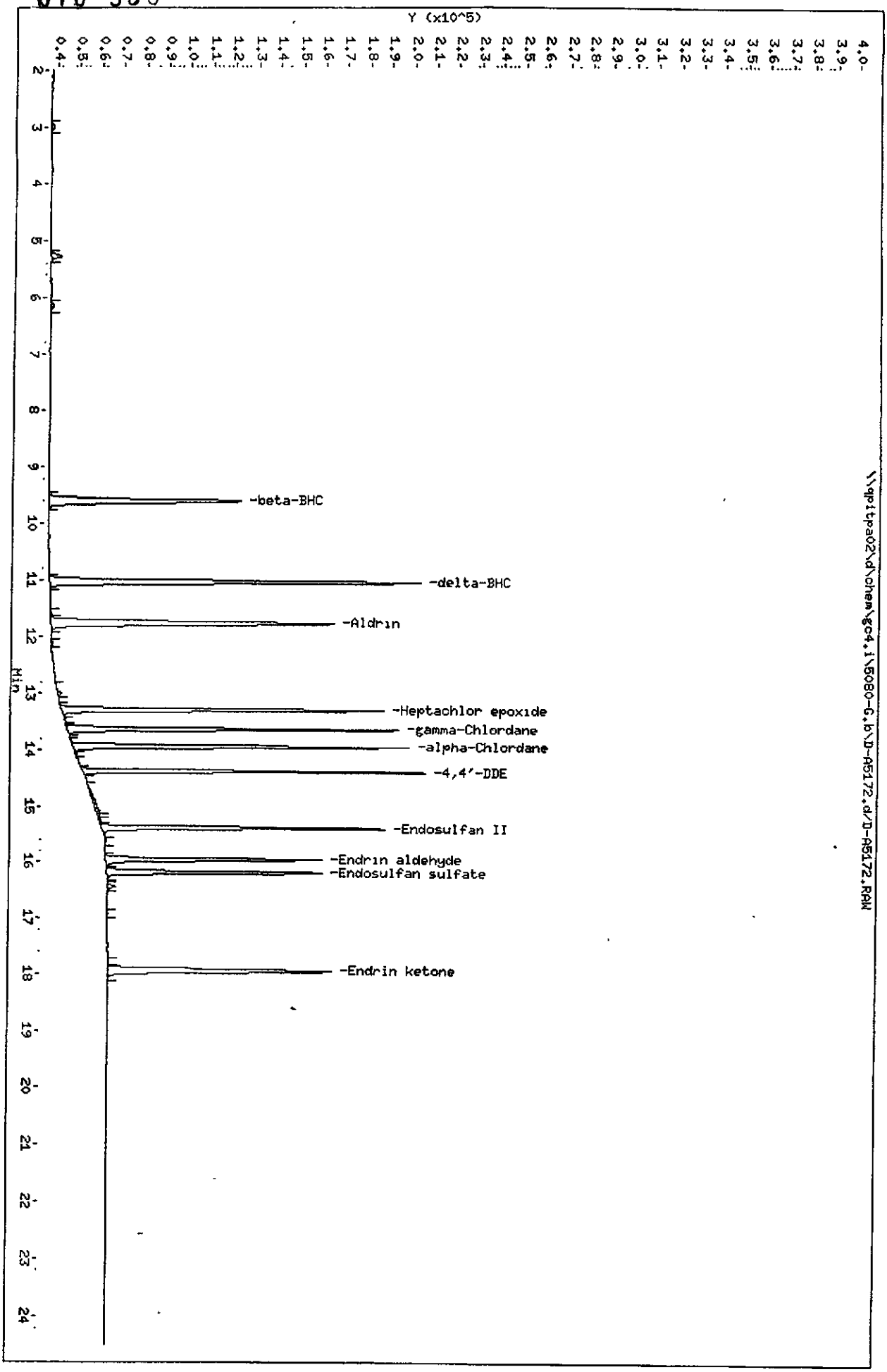
Y (x10^5)
Min
-beta-BHC
-delta-BHC
-Aldrin
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5172.d
Report Date: 10-Aug-2000 09:51

STL Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5172.d
Lab Smp Id: MHIGHB
Inj Date : 08-AUG-2000 01:07
Operator : 1891 Inst ID: gc4.i
Smp Info : MHIGHB,5080-G.b,,4-INDB.sub,,1,4
Misc Info : 190-84-10
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 01:07 Cal File: D-A5172.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11 760	11.760	0.000	126302	0 05000	0 05347
7 beta-BHC	9 600	9 600	0 000	85444	0 05000	0.04780
8 delta-BHC	11 033	11.033	0 000	165572	0 05000	0 05576
12 Heptachlor epoxide	13 286	13.287	-0 001	143750	0.05000	0 05333
13 gamma-Chlordane	13.626	13 627	-0.001	148093	0 05000	0 05206
14 alpha-Chlordane	13 933	13.933	0.000	150172	0 05000	0.05256
16 4,4'-DDE	14.373	14 373	0 000	153102	0 05000	0 05467
22 Endosulfan II	15 380	15 380	0.000	126536	0 05000	0 05334
24 Endrin aldehyde	15 946	15 947	-0 001	96525	0 05000	0.05135
26 Endosulfan sulfate	16 173	16 172	0.001	96278	0 05000	0.05461
27 Endrin ketone	17 933	17.933	0 000	99940	0 05000	0 05382


Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5172.d
Date : 08-AUG-2000 01:07
Client ID:
Sample Info: MHIGHB,5080-G.b,,4-INDB.sub,,1.4
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5172.d\D-A5172.RAW
Y (x10^5)
Min
-beta-BHC
-delta-BHC
-Aldrin
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5173.d
Report Date: 10-Aug-2000 09:51

STL Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5173.d
Lab Smp Id: HIGHB
Inj Date : 08-AUG-2000 01:35
Operator : 1891 Inst ID: gc4.i
Smp Info : HIGHB,5080-G.b,,4-INDB.sub,,1,5
Misc Info : 190-84-11
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-A5173.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.760	11.760	0.000	256434	0.10000	0.1067(A)
7 beta-BHC	9.600	9.600	0.000	158593	0.10000	0.09077
8 delta-BHC	11.033	11.033	0.000	325981	0.10000	0.1077(A)
12 Heptachlor epoxide	13.286	13.287	-0.001	283713	0.10000	0.1042(A)
13 gamma-Chlordane	13.626	13.627	-0.001	292940	0.10000	0.1024(A)
14 alpha-Chlordane	13.933	13.933	0.000	291044	0.10000	0.1015(A)
16 4,4'-DDE	14.373	14.373	0.000	309988	0.10000	0.1084(A)
22 Endosulfan II	15.380	15.380	0.000	255527	0.10000	0.1061(A)
24 Endrin aldehyde	15.946	15.947	-0.001	188859	0.10000	0.1004(A)
26 Endosulfan sulfate	16.180	16.172	0.008	193915	0.10000	0.1078(A)
27 Endrin ketone	17.933	17.933	0.000	201413	0.10000	0.1067(A)

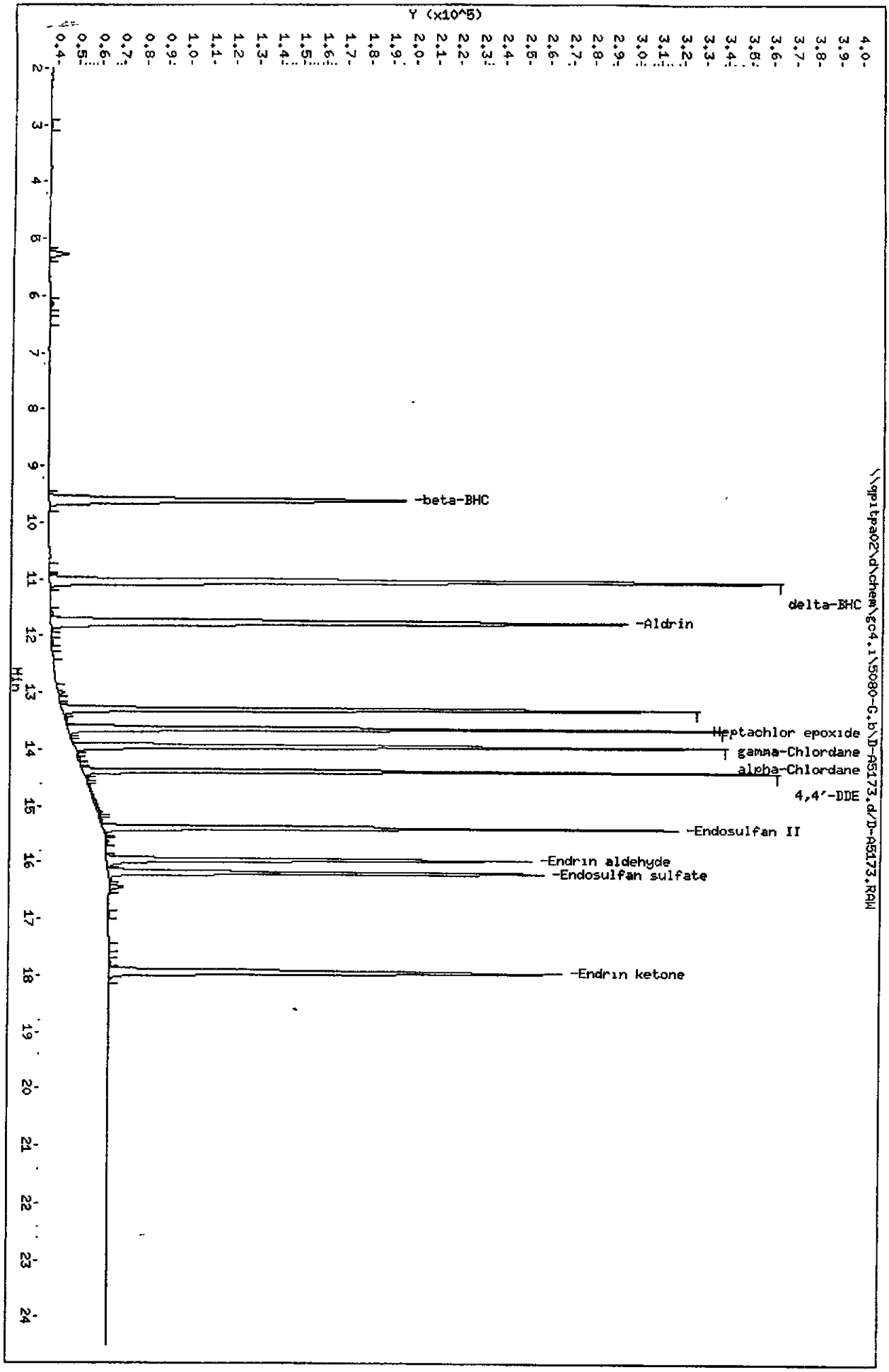
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\qpitpa02\d\chem\gc4.i\5080-G,b\D-A5173.d
Date : 08-AUG-2000 01:35
Client ID:
Sample Info: HIGHB,5080-G,b,,4-INDB,sub,,1,5

Column phase: DB608

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5174.d
Report Date: 10-Aug-2000 09:51

STL Pittsburgh

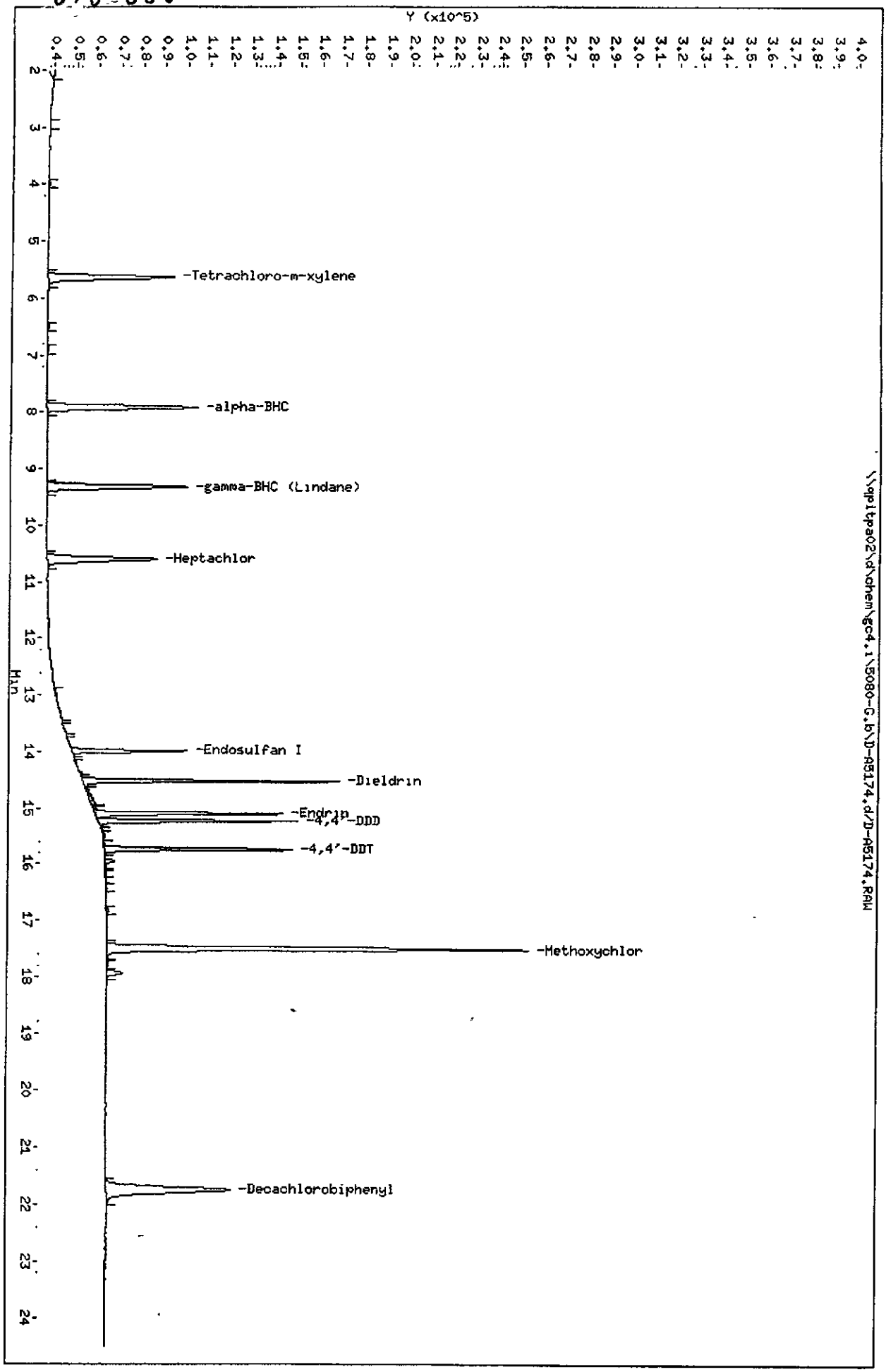
Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5174.d
Lab Smp Id: 2ND A
Inj Date : 08-AUG-2000 02:03
Operator : 1891 Inst ID: gc4.i
Smp Info : 2ND A,5080-G.b,,INDA.sub,,2,3
Misc Info : 190-82-2
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-A5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 Tetrachloro-m-xylene	5.626	5.626	0.000	56667	0 02500	0 01946
5 alpha-BHC	7.920	7.913	0.007	67450	0.02500	0 01953
6 gamma-BHC (Lindane)	9 320	9 313	0 007	62470	0 02500	0 01995
10 Heptachlor	10 600	10.593	0 007	49247	0 02500	0 01962
15 Endosulfan I	13.986	13 987	-0 001	51882	0.02500	0 01952
17 Dieldrin	14 513	14 513	0 000	114298	0 02500	0 04014
20 Endrin	15 086	15 087	-0 001	83529	0.02500	0.03577
21 4,4'-DDD	15 226	15 227	-0 001	88953	0.02500	0 04040
23 4,4'-DDT	15 733	15 733	0.000	83828	0.02500	0.04064
25 Methoxychlor	17 486	17 493	-0 007	187719	0 05000	0 2065(A)
$ 30 Decachlorobiphenyl	21.740	21.747	-0 007	55451	0 02500	0 03916

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

670-360

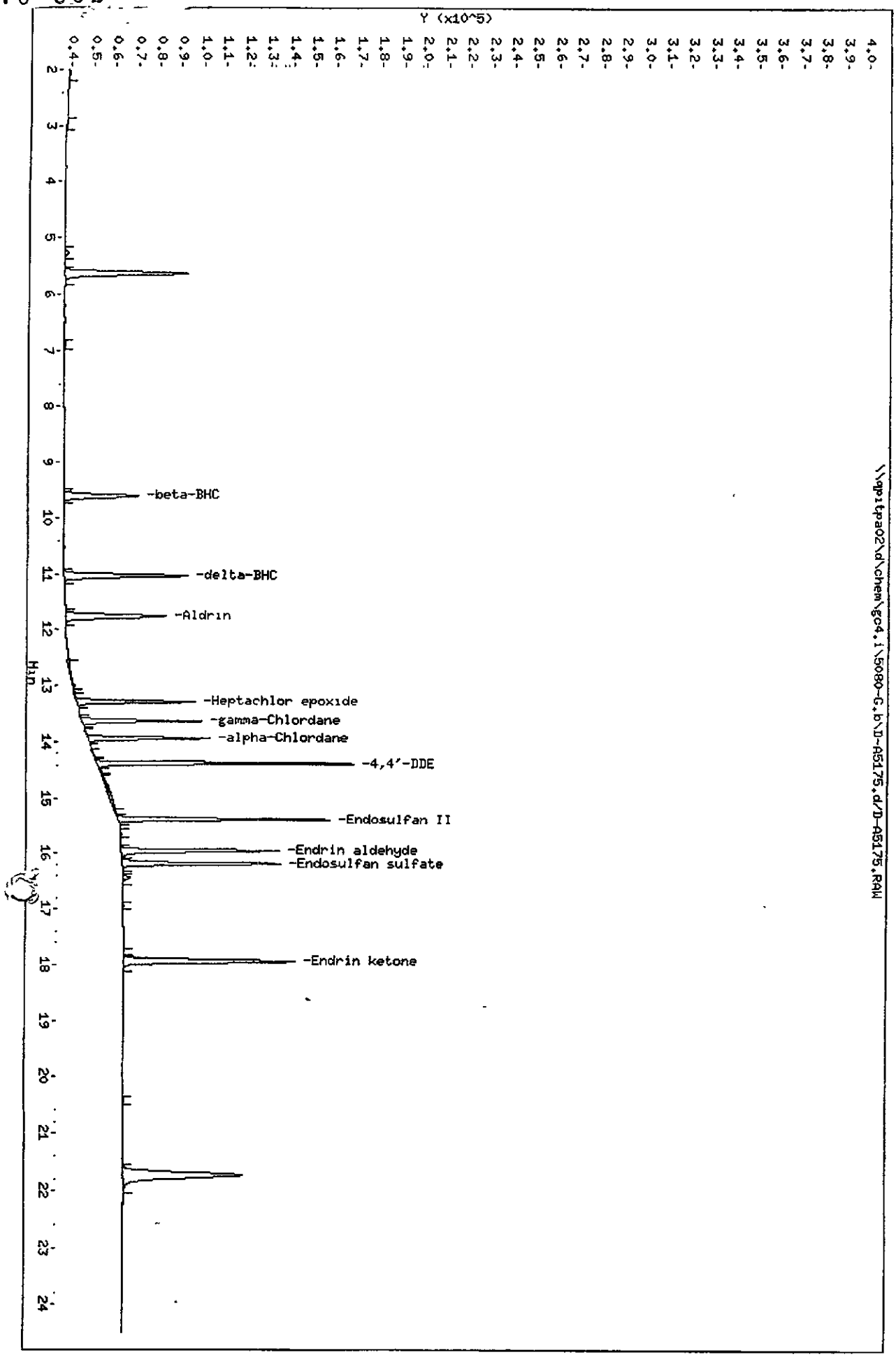

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5174.d
Date : 08-AUG-2000 02:03
Client ID:
Sample Info: 2ND A,5080-G.b,,INDA,sub,,2,3
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5174.d\D-A5174.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5175.d
Report Date: 10-Aug-2000 09:51

STL Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5175.d
Lab Smp Id: 2ND B
Inj Date : 08-AUG-2000 02:30
Operator : 1891 Inst ID: gc4.i
Smp Info : 2ND B,5080-G.b,,INDB.sub,,2,3
Misc Info : 190-82-5
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-A5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11 760	11 760	0 000	44837	0.02500	0 01866
7 beta-BHC	9 600	9 600	0 000	33280	0 02500	0.01905
8 delta BHC	11 033	11 033	0 000	55439	0 02500	0.01831
12 Heptachlor epoxide	13 286	13 287	-0 001	53095	0 02500	0,01949
13 gamma-Chlordane	13 626	13 627	-0 001	54336	0 02500	0 01899
14 alpha-Chlordane	13.933	13 933	0 000	54871	0 02500	0.01913
16 4,4'-DDE	14.373	14 373	0 000	115564	0.02500	0.04040
22 Endosulfan II	15.380	15.380	0.000	95406	0.02500	0 03960
24 Endrin aldehyde	15 946	15.947	-0.001	71195	0.02500	0.03784
26 Endosulfan sulfate	16 173	16.172	0.001	71790	0.02500	0 03992
27 Endrin ketone	17 933	17 933	0 000	77503	0 02500	0.04104


Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5175.d
Date : 08-AUG-2000 02:30
Client ID:
Sample Info: 2ND B,5080-G.b,,INDB.sub,2,3
Column phase: DB608
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5175.d/D-A5175.RAW
Y (x10^5)
Min
-beta-BHC
-delta-BHC
-Aldrin
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5176.d
Report Date: 10-Aug-2000 09:52

STL Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5176.d
Lab Smp Id: EVALB
Inj Date : 08-AUG-2000 02:58
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,5080-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTA.m
Meth Date : 10-Aug-2000 09:47 matkol Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-A5173.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 1 Tetrachloro-m-xylene	5 640	5.626	0.014	58813	0 02020	0.02020(R)
16 4,4' DDE	14 380	14 373	0.007	589	<0.0	0 0002059
20 Endrin	15 086	15 087	-0 001	54948	0 02353	0.02353
21 4,4'-DDD	Compound Not Detected					
23 4,4'-DDT	15.733	15.733	0.000	51331	0 02489	0.02489
24 Endrin aldehyde	15.946	15 947	-0 001	1885	0.00100	0.001002
27 Endrin ketone	17.933	17 933	0.000	2011	0.00107	0.001065
$ 30 Decachlorobiphenyl	21 740	21 747	-0.007	29283	0 02068	0 02068(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT = 1.1

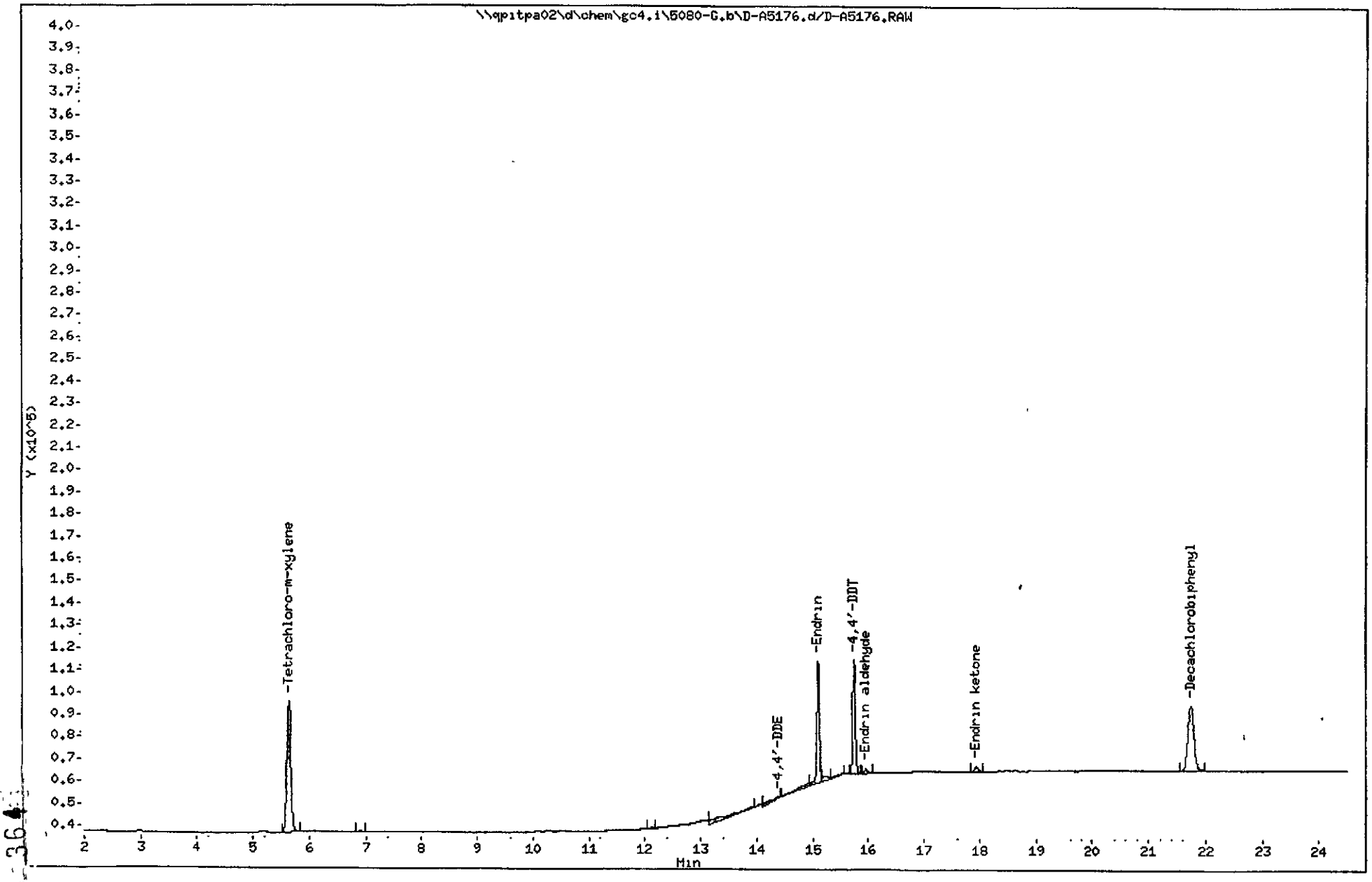
Endrin = 6.6

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-A5176.d
Date : 08-AUG-2000 02:58
Client ID:
Sample Info: EVALB,5080-G.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Operator: 1891
Column diameter: 0.53

Column phase: DB608



3064

STL Pittsburgh

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5545.d
Report Date: 28-Aug-2000 10:43

STL - Pittsburgh

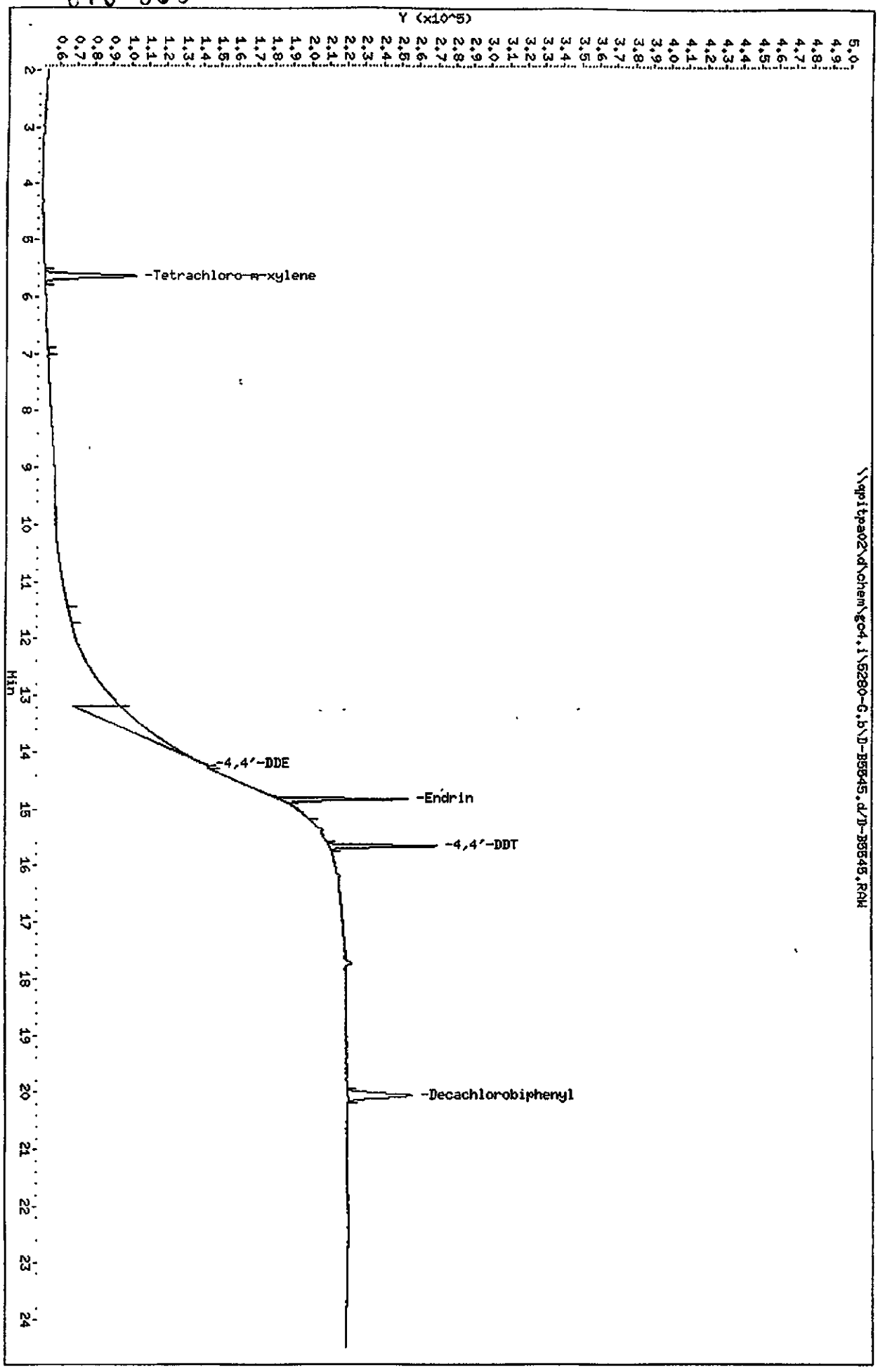
Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5545.d
Lab Smp Id: EVALB
Inj Date : 23-AUG-2000 09:30
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,5280-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng)
$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	50750	0.02220	0.02220(R)
16 4,4'-DDE	14.226	14.220	0.006	1744	<0.0	0.0005178
20 Endrin	14.820	14.820	0.000	71266	0.02254	0.02254
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.660	15.660	0.000	59511	0.02395	0.02395
24 Endrin aldehyde	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected.					
$ 30 Decachlorobiphenyl	20.060	20.060	0.000	36326	0.02148	0.02148(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT= 28
Endrin= D


Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5545.d
Date : 23-AUG-2000 09:30
Client ID:
Sample Info: EVAL,5280-G.b,,EVALBR.sub,,3,1
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5545.d\D-B5545.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-4,4'-DDE
-Endrin
-4,4'-DDT
-Decachlorobiphenyl

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5546.d
Lab Smp Id: MEDTOX
Inj Date : 23-AUG-2000 09:58
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDTOX,5280-G.b,,1-TOX.sub,,2,3
Misc Info : 190-98-12
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
18 Toxaphene	15.253	15.253	0.000	41452	1.00000	1.046(M)
$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	60807	0.02500	0.02660
$ 30 Decachlorobiphenyl	20.060	20.060	0.000	44192	0.02500	0.02613

QC Flag Legend

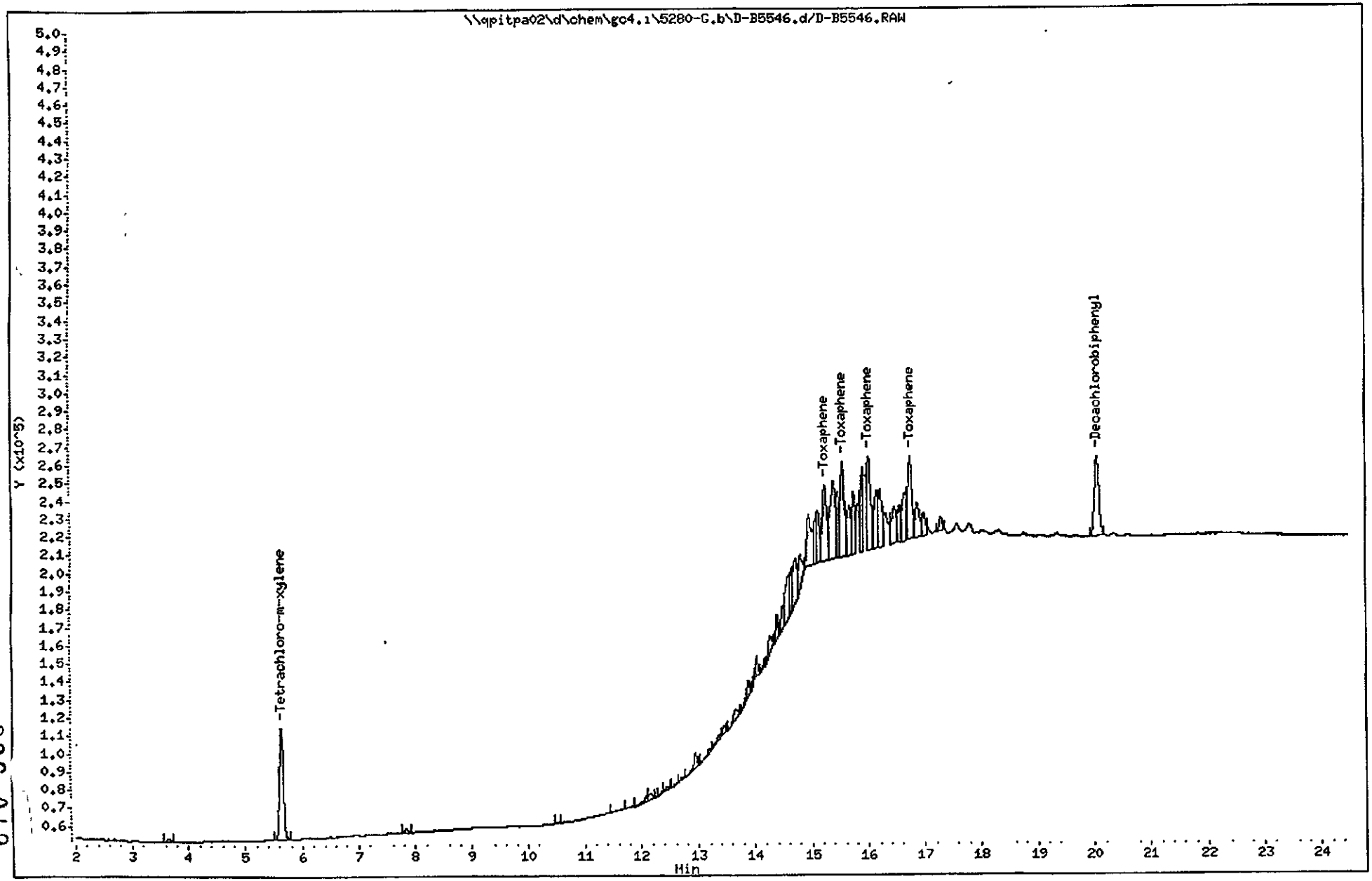
M - Compound response manually integrated.

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5546.d
Date : 23-AUG-2000 09:58
Client ID:
Sample Info: MEDTOX,5280-G.b,,1-TOX.sub,,2,3

Instrument: gc4.i

Operator: 1891
Column diameter: 0.53

Column phase: DB1701

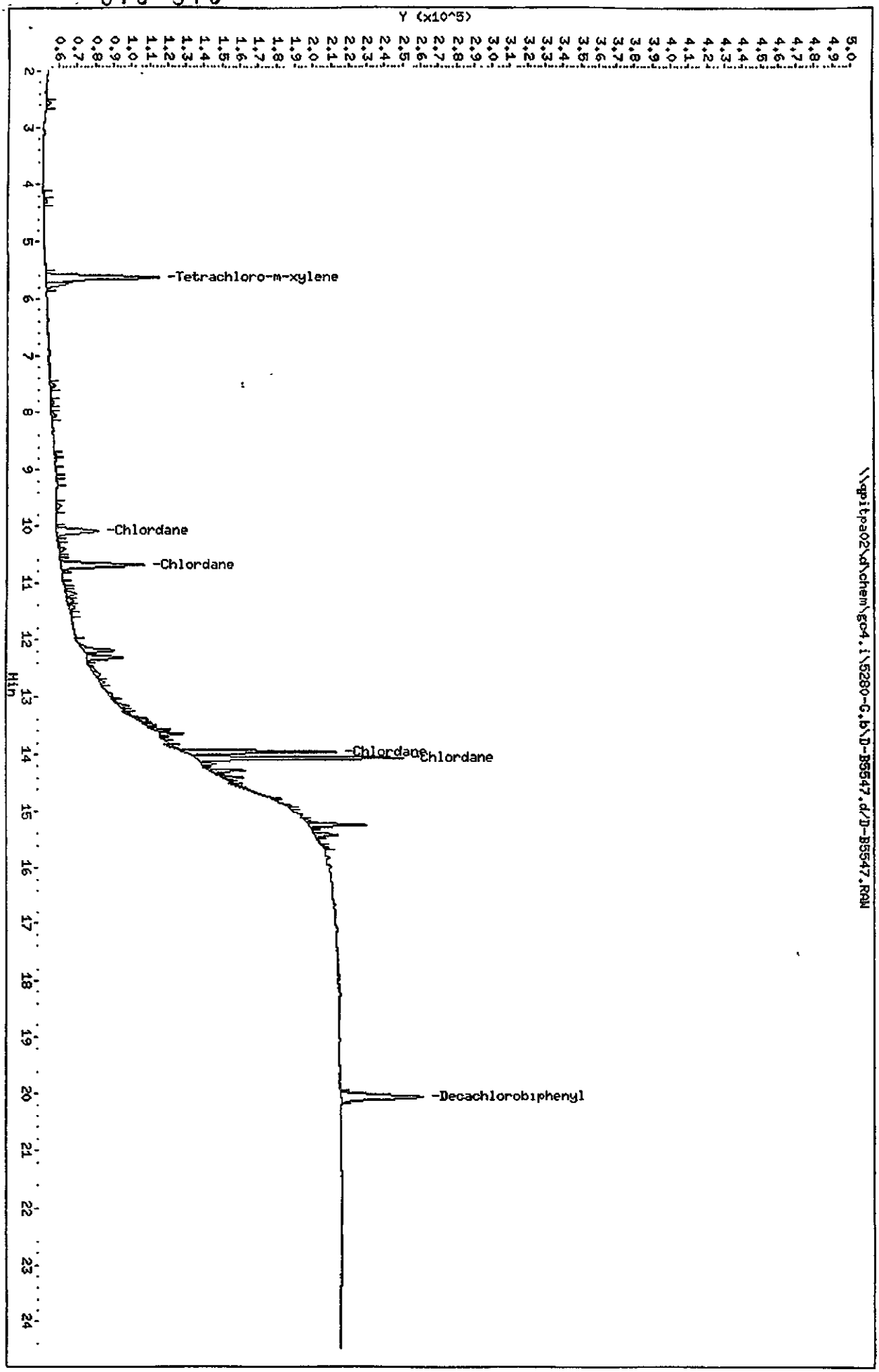


Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5547.d
Report Date: 28-Aug-2000 10:44

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5547.d
Lab Smp Id: MEDCHLOR
Inj Date : 23-AUG-2000 10:26
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDCHLOR,5280-G.b,,2-CHLO.sub,,2,3
Misc Info : 190-85-10
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.04
Processing Host: PITPC043

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
9 Chlordane	10.093	10.093	0.000	22514	0.25000	0.2737
$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	62660	0.02500	0.02741
$ 30 Decachlorobiphenyl	20.060	20.060	0.000	45109	0.02500	0.02667


Data File: \\qpitpa02\d\chem\gc4.i\5280-G,b\D-B5547.d
Date : 23-AUG-2000 10:26
Client ID:
Sample Info: MEDCHLOR,5280-G,b,,2-CHLO,sub,,2,3
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\5280-G,b\D-B5547.d/D-B5547.RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-Chlordane
-Chlordane
-Chlordane
Chlordane
-Decachlorobiphenyl

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5548.d
Report Date: 28-Aug-2000 10:44

STL - Pittsburgh

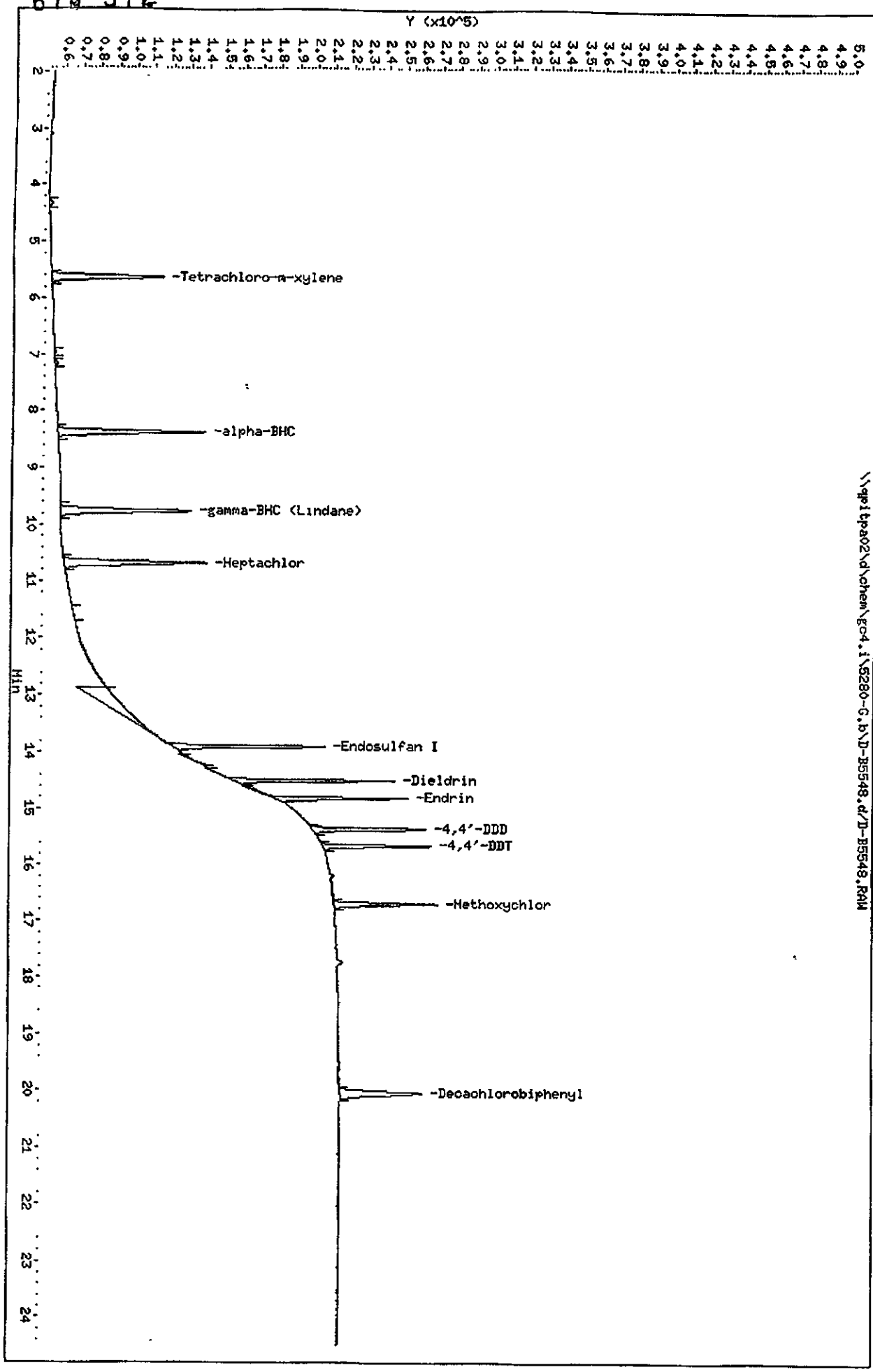
Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5548.d
Lab Smp Id: MEDA
Inj Date : 23-AUG-2000 10:54
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,5280-G.b,,3-INDA.sub,,2,3
Misc Info : 190-84-3
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC043

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
$	1 Tetrachloro-m-xylene	5.633	5.633	0.000	61447	0.02500	0.02688
	5 alpha-BHC	8.380	8.380	0.000	81891	0.02500	0.02672
	6 gamma-BHC (Lindane)	9.760	9 760	0.000	72343	0.02500	0.02728
	10 Heptachlor	10.686	10.686	0.000	78605	0.02500	0.02674
	15 Endosulfan I	13 906	13.906	0.000	84828	0.02500	0.02654
	17 Dieldrin	14 506	14.506	0.000	89217	0.02500	0.02627
	20 Endrin	14 820	14.820	0.000	74594	0.02500	0.02359
	21 4,4'-DDD	15.366	15.366	0.000	63094	0.02500	0.02566
	23 4,4'-DDT	15.660	15.660	0.000	60369	0 02500	0.02430
	25 Methoxychlor	16.700	16.700	0.000	57862	0.05000	0.04955
$	30 Decachlorobiphenyl	20.060	20 060	0.000	45554	0.02500	0.02694

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5548.d
Date : 23-AUG-2000 10:54
Client ID:
Sample Info: HEDA,5280-G.b,3-INDA,sub,2,3

Instrument: gc4.i
Operator: 1591
Column diameter: 0.53

Column phase: DB1701

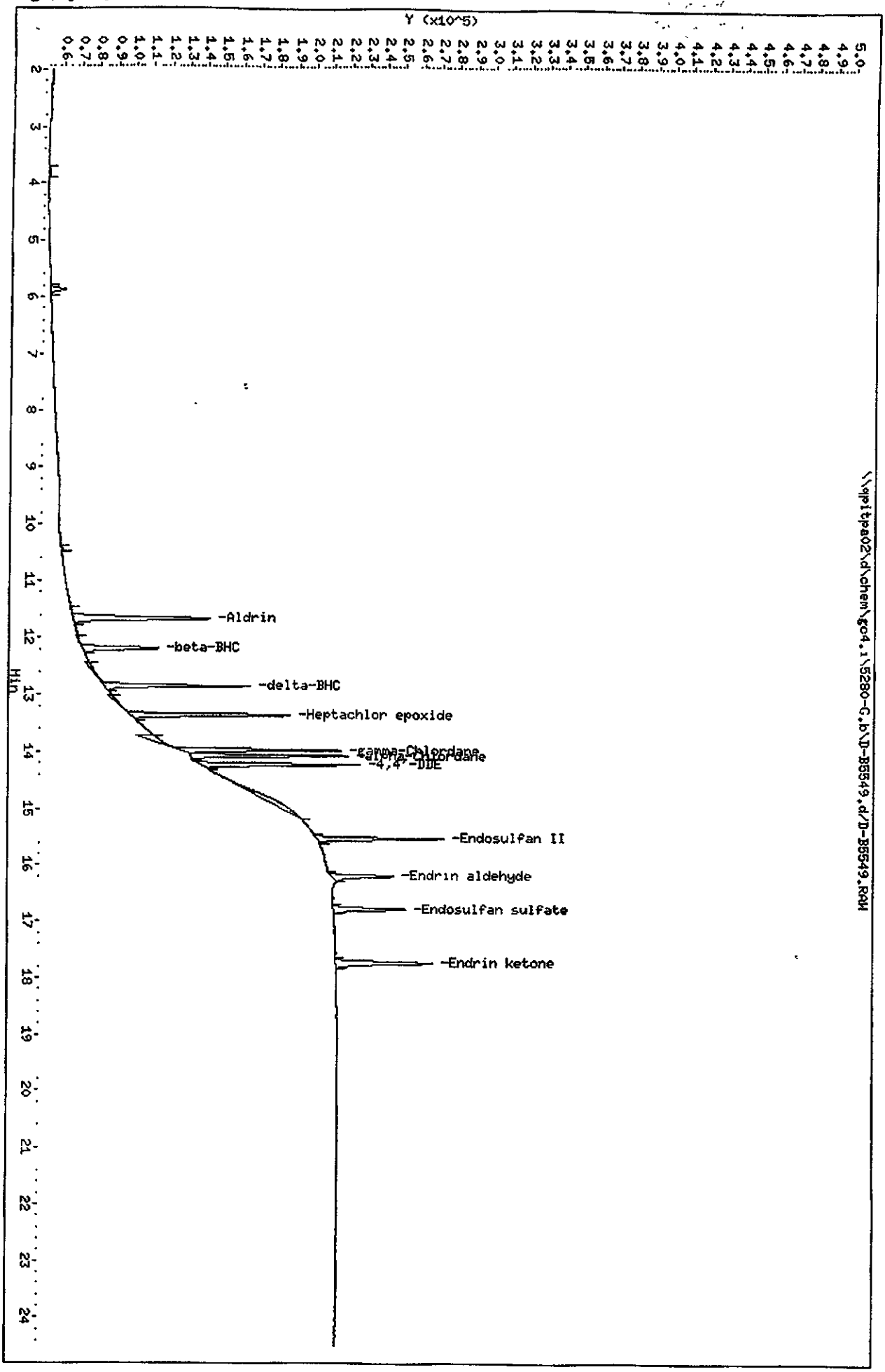


Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5549.d
Report Date: 28-Aug-2000 10:44

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5549.d
Lab Smp Id: MEDB
Inj Date : 23-AUG-2000 11:21
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,5280-G.b,,4-INDB.sub,,2,3
Misc Info : 190-84-9
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.660	11.660	0.000	75995	0.02500	0.02668
7 beta-BHC	12.186	12.186	0.000	42626	0.02500	0.02564
8 delta-BHC	12.860	12.860	0.000	80889	0.02500	0.02355
12 Heptachlor epoxide	13.360	13.360	0.000	88513	0.02500	0.02671
13 gamma-Chlordane	13.966	13.966	0.000	88629	0.02500	0.02613
14 alpha-Chlordane	14.066	14.066	0.000	87157	0.02500	0.02635
16 4,4'-DDE	14.220	14.220	0.000	88951	0.02500	0.02641
22 Endosulfan II	15.520	15.520	0.000	70568	0.02500	0.02465
24 Endrin aldehyde	16.186	16.186	0.000	34457	0.02500	0.02570
26 Endosulfan sulfate	16.773	16.773	0.000	39940	0.02500	0.02280
27 Endrin ketone	17.740	17.740	0.000	53489	0.02500	0.02591


Data File: \\wpitpa02\d\chem\gc4.i\5280-C.b\D-B5549.d
Date : 23-AUG-2000 11:21
Client ID:
Sample Info: MEDB,5280-C.b,,4-INDB.sub,,2,3
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\wpitpa02\d\chem\gc4.i\5280-C.b\D-B5549.d/D-B5549.RAW
Y (x10^5)
Min
-Aldrin
-beta-BHC
-delta-BHC
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5570.d
Report Date: 28-Aug-2000 10:47

STL - Pittsburgh

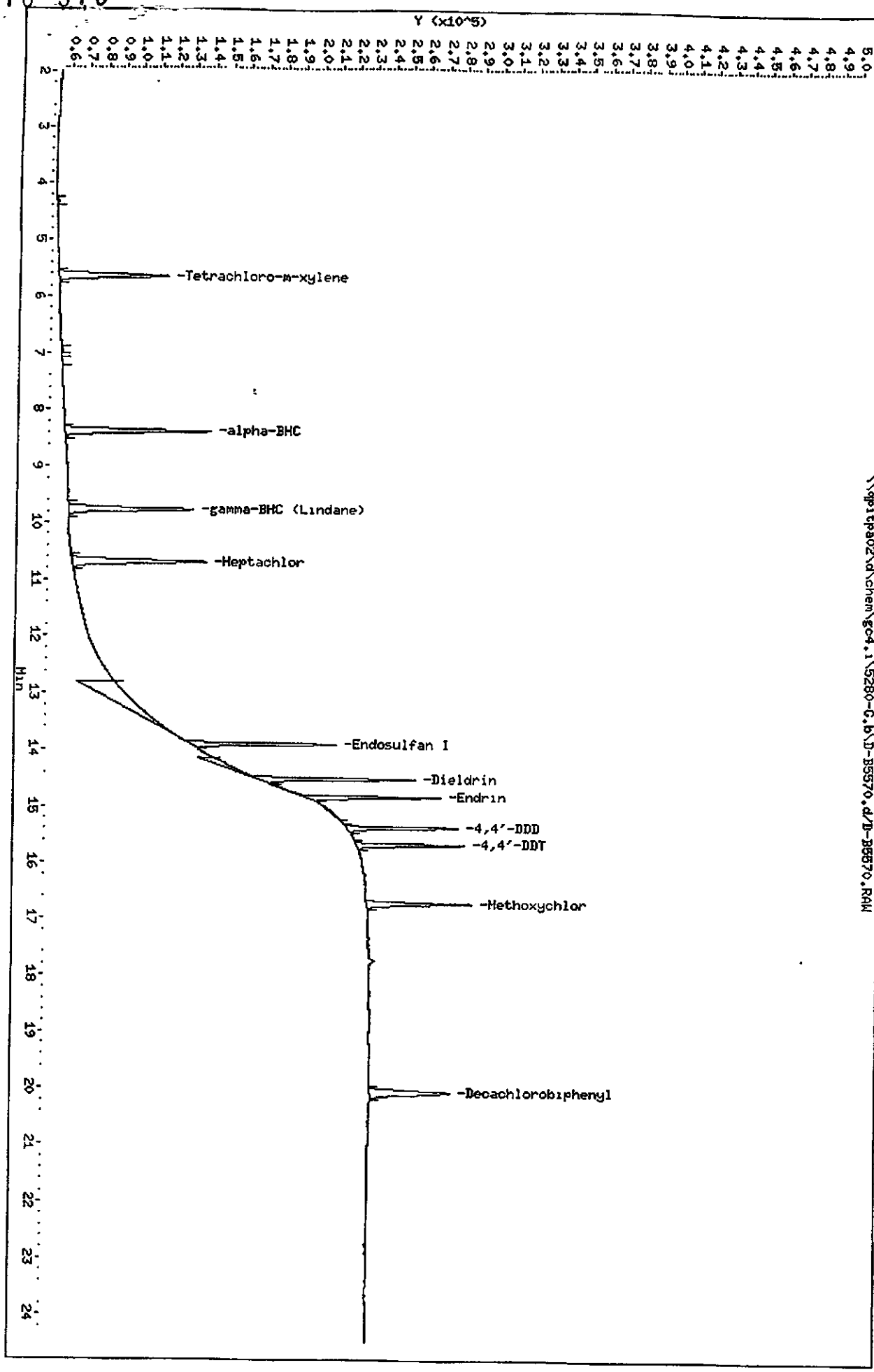
Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5570.d
Lab Smp Id: MEDA
Inj Date : 23-AUG-2000 21:04
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,5280-G.b,,INDA.sub,,2,3
Misc Info : 190-84-3
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	60373	0.02500	0.02641
5 alpha-BHC	8.380	8.380	0.000	80152	0.02500	0.02616
6 gamma-BHC (Lindane)	9.760	9.760	0 000	69408	0.02500	0.02617
10 Heptachlor	10.686	10.686	0.000	74126	0.02500	0.02521
15 Endosulfan I	13.906	13.906	0.000	80217	0.02500	0.02510
17 Dieldrin	14.506	14.506	0.000	85774	0.02500	0.02526
20 Endrin	14.820	14.820	0.000	74776	0.02500	0.02365
21 4,4'-DDD	15.366	15.366	0.000	61666	0.02500	0.02508
23 4,4'-DDT	15.660	15.660	0.000	60080	0.02500	0.02418
25 Methoxychlor	16.700	16.700	0 000	58449	0.05000	0.05005
$ 30 Decachlorobiphenyl	20.060	20.060	0.000	44605	0.02500	0.02638

Data File: \\qpitpa02\d\chem\gc4.i\5280-C,b\D-B5570.d
Date : 23-AUG-2000 21:04
Client ID:
Sample Info: MEDA,5280-C,b,,INDA,sub,2,3

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53

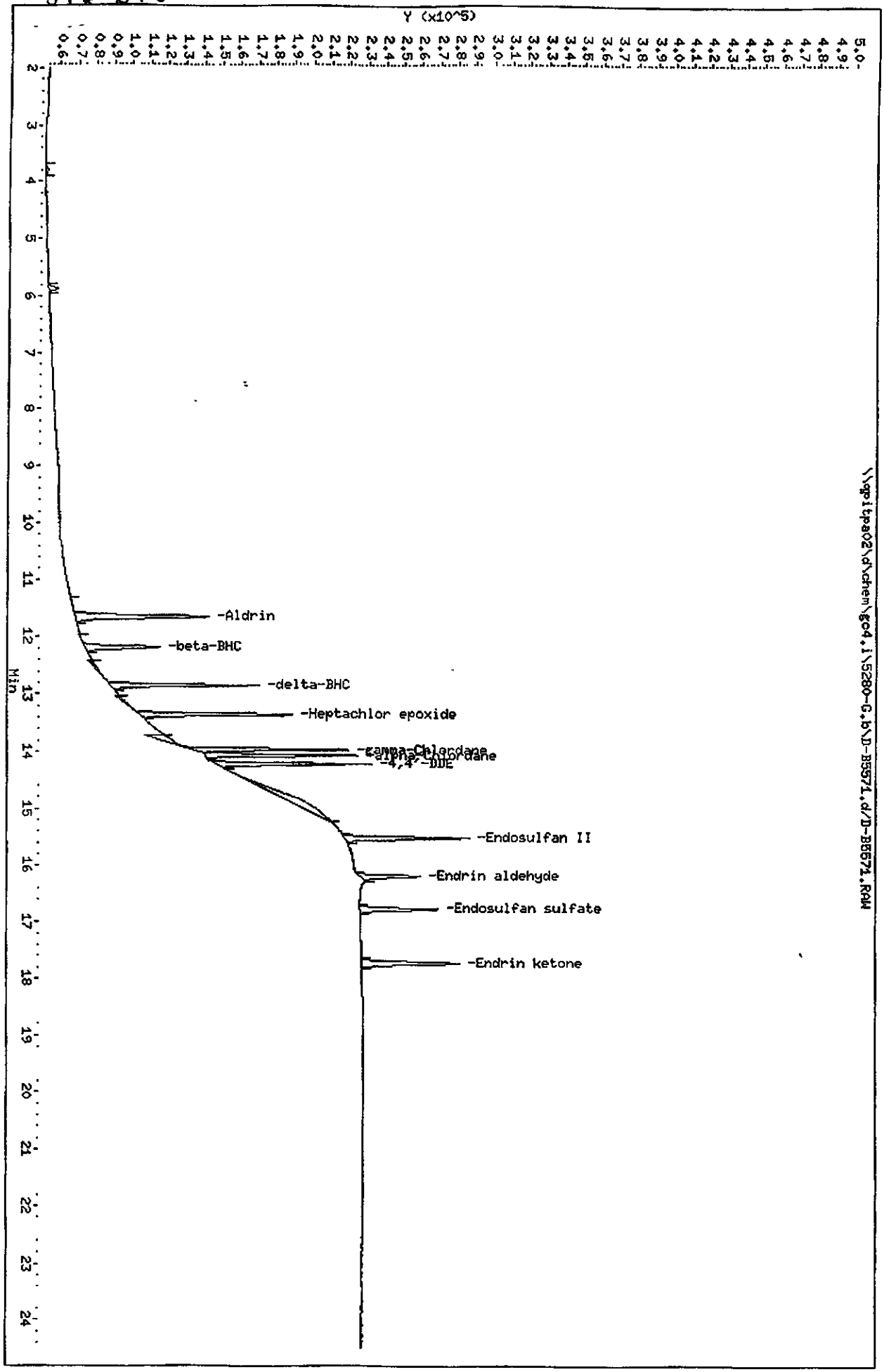
Column phase: DB1701



STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5571.d
Lab Smp Id: MEDB
Inj Date : 23-AUG-2000 21:32
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,5280-G.b,,INDB.sub,,2,3
Misc Info : 190-84-9
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.660	11.660	0.000	74214	0.02500	0.02606
7 beta-BHC	12.186	12.186	0.000	41009	0.02500	0.02466
8 delta-BHC	12.853	12.860	-0.007	82493	0.02500	0.02401
12 Heptachlor epoxide	13.360	13.360	0.000	83961	0.02500	0.02534
13 gamma-Chlordane	13.966	13.966	0.000	84746	0.02500	0.02498
14 alpha-Chlordane	14.066	14.066	0.000	83488	0.02500	0.02524
16 4,4'-DDE	14.220	14.220	0.000	85494	0.02500	0.02538
22 Endosulfan II	15.513	15.520	-0.007	69221	0.02500	0.02418
24 Endrin aldehyde	16.186	16.186	0.000	33307	0.02500	0.02485
26 Endosulfan sulfate	16.766	16.773	-0.007	43029	0.02500	0.02456
27 Endrin ketone	17.733	17.740	-0.007	53966	0.02500	0.02614


Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5571.d
Date : 23-AUG-2000 21:32
Client ID:
Sample Info: MEDB,5280-G.b,,INDB,sub,,2,3
Column phase: DB1701
Instrument: gc4.i
Operator: 1891
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5571.d\D-B5571.RAW
Y (x10^5)
Min
-Aldrin
-beta-BHC
-delta-BHC
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5572.d
Report Date: 28-Aug-2000 11:13

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5572.d
Lab Smp Id: EVALB
Inj Date : 23-AUG-2000 21:59
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,5280-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ng)
$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	47872	0.02094	0.02094(R)
16 4,4'-DDE	Compound Not Detected.					
20 Endrin	14.820	14.820	0.000	71695	0.02268	0.02268
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.660	15.660	0.000	59407	0.02391	0.02391
24 Endrin aldehyde	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected.					
$ 30 Decachlorobiphenyl	20.060	20.060	0.000	36265	0.02144	0.02144(R)

QC Flag Legend

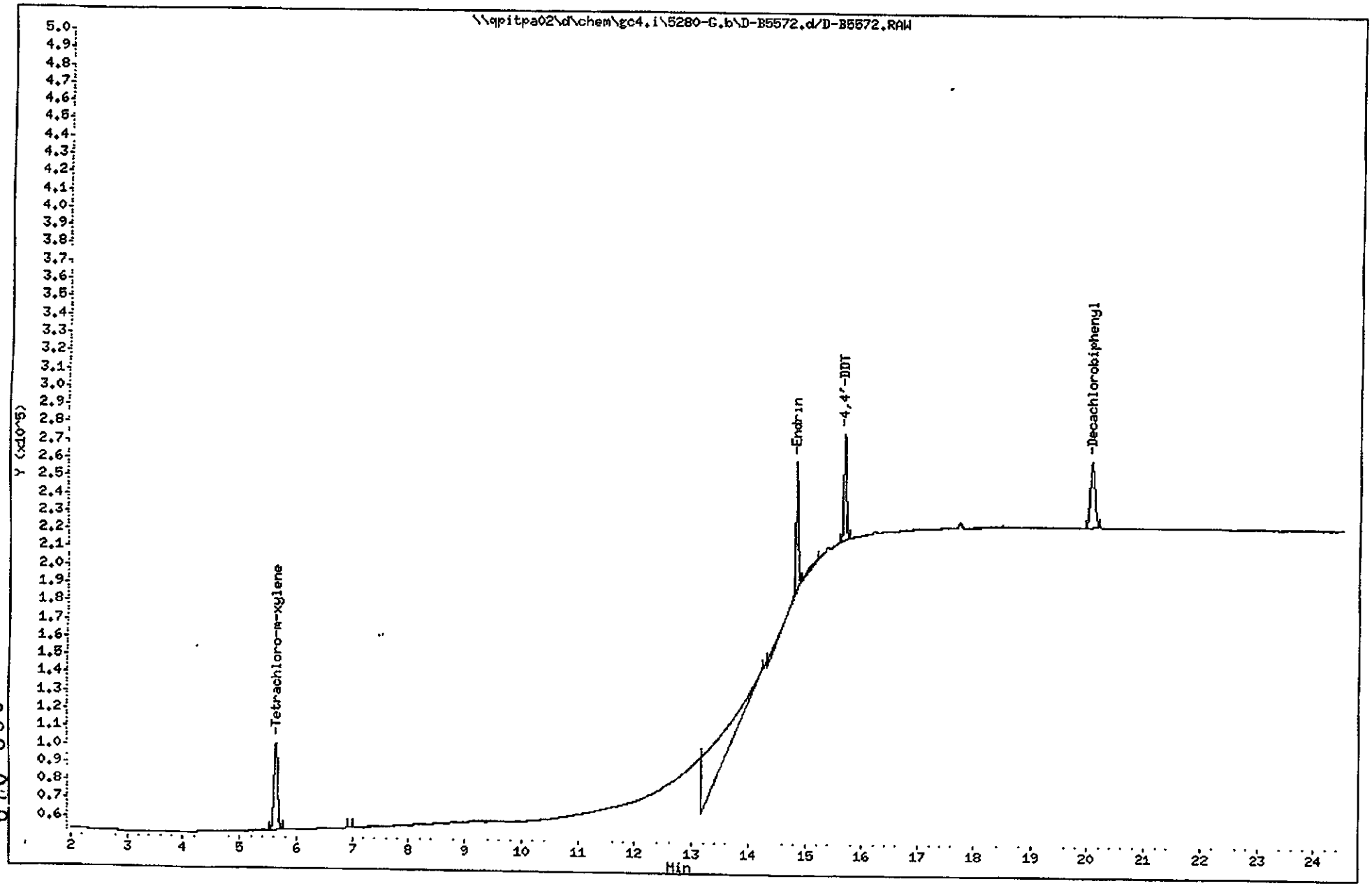
R - Spike/Surrogate failed recovery limits.

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5572.d
Date : 23-AUG-2000 21:59
Client ID:
Sample Info: EVALB,5280-G.b,,EVALBR.sub,,3,1

Instrument: gc4.i

Operator: 1891
Column diameter: 0.53

Column phase: DB1701

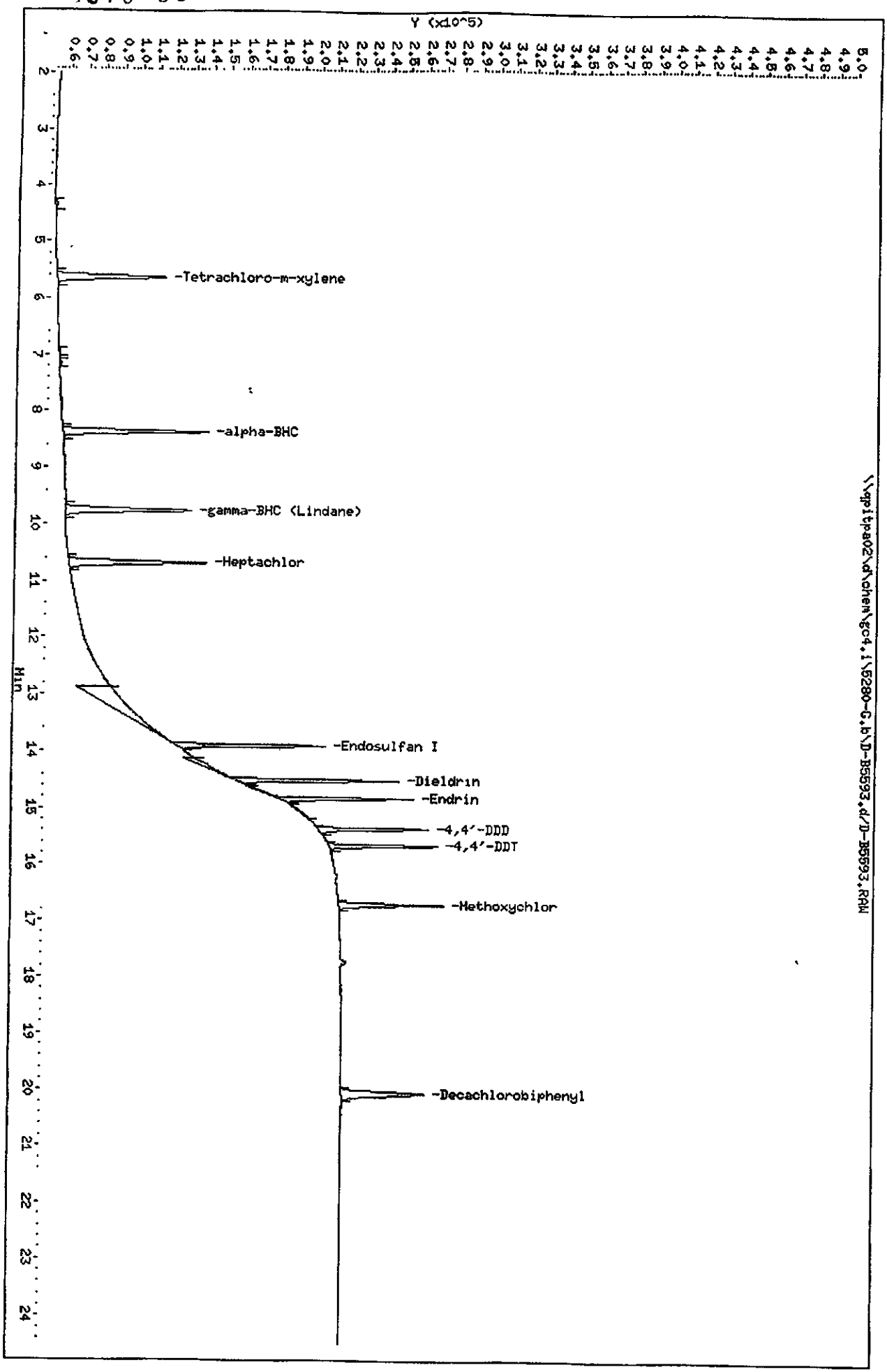


Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5593.d
Report Date: 28-Aug-2000 11:16

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5593.d
Lab Smp Id: MEDA
Inj Date : 24-AUG-2000 07:41
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,5280-G.b,,INDA.sub,,2,3
Misc Info : 190-84-3
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 4.04
Processing Host: PITPC043

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1	Tetrachloro-m-xylene	5.633	5.633	0.000	60857	0.02500	0.02662
5	alpha-BHC	8.373	8.380	-0.007	80819	0.02500	0.02637
6	gamma-BHC (Lindane)	9.760	9.760	0.000	70258	0.02500	0.02649
10	Heptachlor	10.680	10.686	-0.006	76358	0.02500	0.02597
15	Endosulfan I	13.906	13.906	0.000	82134	0.02500	0.02570
17	Dieldrin	14.500	14.506	-0.006	89746	0.02500	0.02643
20	Endrin	14.820	14.820	0.000	73713	0.02500	0.02331
21	4,4'-DDD	15.366	15.366	0.000	61109	0.02500	0.02485
23	4,4'-DDT	15.660	15.660	0.000	60038	0.02500	0.02416
25	Methoxychlor	16.700	16.700	0.000	58068	0.05000	0.04973
$ 30	Decachlorobiphenyl	20.053	20.060	-0.007	45626	0.02500	0.02698

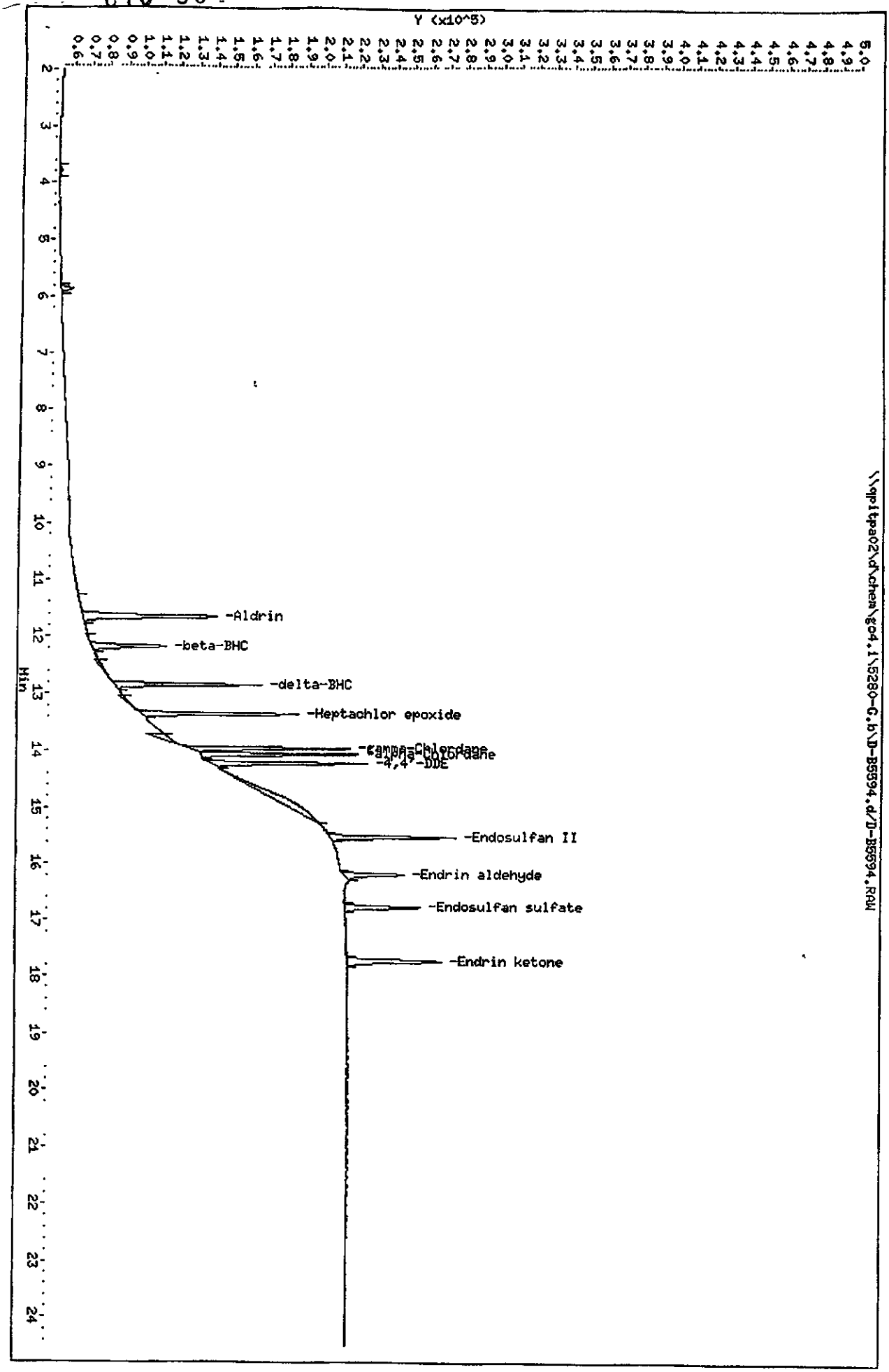

Data File: \\qpitpa02\d\chem\gc4,i\5280-G,b\D-B5593,d
Date : 24-AUG-2000 07:41
Client ID:
Sample Info: MEDA,5280-G,b,,INDA,sub,,2,3
Column phase: DB1701
Instrument: gc4,i
Operator: 1891
Column diameter: 0,53
\\qpitpa02\d\chem\gc4,i\5280-G,b\D-B5593,d/D-B5593,RAW
Y (x10^5)
Min
-Tetrachloro-m-xylene
-alpha-BHC
-gamma-BHC (Lindane)
-Heptachlor
-Endosulfan I
-Dieldrin
-Endrin
-4,4'-DDD
-4,4'-DDT
-Methoxychlor
-Decachlorobiphenyl

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5594.d
Report Date: 28-Aug-2000 11:16

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5594.d
Lab Smp Id: MEDB
Inj Date : 24-AUG-2000 08:09
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,5280-G.b,,INDB.sub,,2,3
Misc Info : 190-84-9
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
11 Aldrin	11.653	11.660	-0.007	74341	0.02500	0.02610
7 beta-BHC	12.180	12.186	-0.006	41713	0.02500	0.02509
8 delta-BHC	12.853	12.860	-0.007	80851	0.02500	0.02353
12 Heptachlor epoxide	13.353	13.360	-0.007	87269	0.02500	0.02634
13 gamma-Chlordane	13.960	13.966	-0.006	87394	0.02500	0.02576
14 alpha-Chlordane	14.060	14.066	-0.006	86132	0.02500	0.02604
16 4,4'-DDE	14.220	14.220	0.000	86302	0.02500	0.02562
22 Endosulfan II	15 513	15.520	-0.007	70128	0.02500	0.02450
24 Endrin aldehyde	16.180	16.186	-0.006	33591	0.02500	0.02506
26 Endosulfan sulfate	16.766	16.773	-0.007	42145	0.02500	0.02406
27 Endrin ketone	17.733	17.740	-0.007	52965	0.02500	0.02566


Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5594.d
Date : 24-AUG-2000 08:09
Client ID:
Sample Info: MEDB,5280-G.b,,INDB,sub,2,3
Column phase: DB1701
Instrument: gc4.i
Operator: 1691
Column diameter: 0.53
\\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5594.d/D-B5594.RAW
Y (x10^5)
Min
-Aldrin
-beta-BHC
-delta-BHC
-Heptachlor epoxide
-gamma-Chlordane
-alpha-Chlordane
-4,4'-DDE
-Endosulfan II
-Endrin aldehyde
-Endosulfan sulfate
-Endrin ketone

PESTICIDE
QC DATA

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:C0H210000 434

Sample WT/Vol: 100 / mL
Work Order: DJ6M5101
Dilution factor: 1
Moisture %:NA

Date Received: 08/16/00
Date Extracted:08/21/00
Date Analyzed: 08/24/00

QC Batch: 0234434

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5582.d
Lab Smp Id: DJ6M5101 Client Smp ID: PBLK4434
Inj Date : 24-AUG-2000 02:37
Operator : 1891 Inst ID: gc4.i
Smp Info : DJ6M5101,5280-G.b,,PEST.sub,,3,
Misc Info : 160154BLK
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC043

Concentration Formula: Amt * DF * (Vt/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 1 Tetrachloro-m-xylene	5.626	5.633	-0.007	40837	0.01786	0.001786(aR)
5 alpha-BHC	Compound Not Detected.					
6 gamma-BHC (Lindane)	Compound Not Detected.					
9 Chlordane	Compound Not Detected.					
10 Heptachlor	Compound Not Detected.					
11 Aldrin	Compound Not Detected.					
7 beta-BHC	Compound Not Detected.					
8 delta-BHC	Compound Not Detected.					
12 Heptachlor epoxide	Compound Not Detected.					
15 Endosulfan I	Compound Not Detected.					
13 gamma-Chlordane	Compound Not Detected.					
14 alpha-Chlordane	Compound Not Detected.					
16 4,4'-DDE	Compound Not Detected.					
17 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					

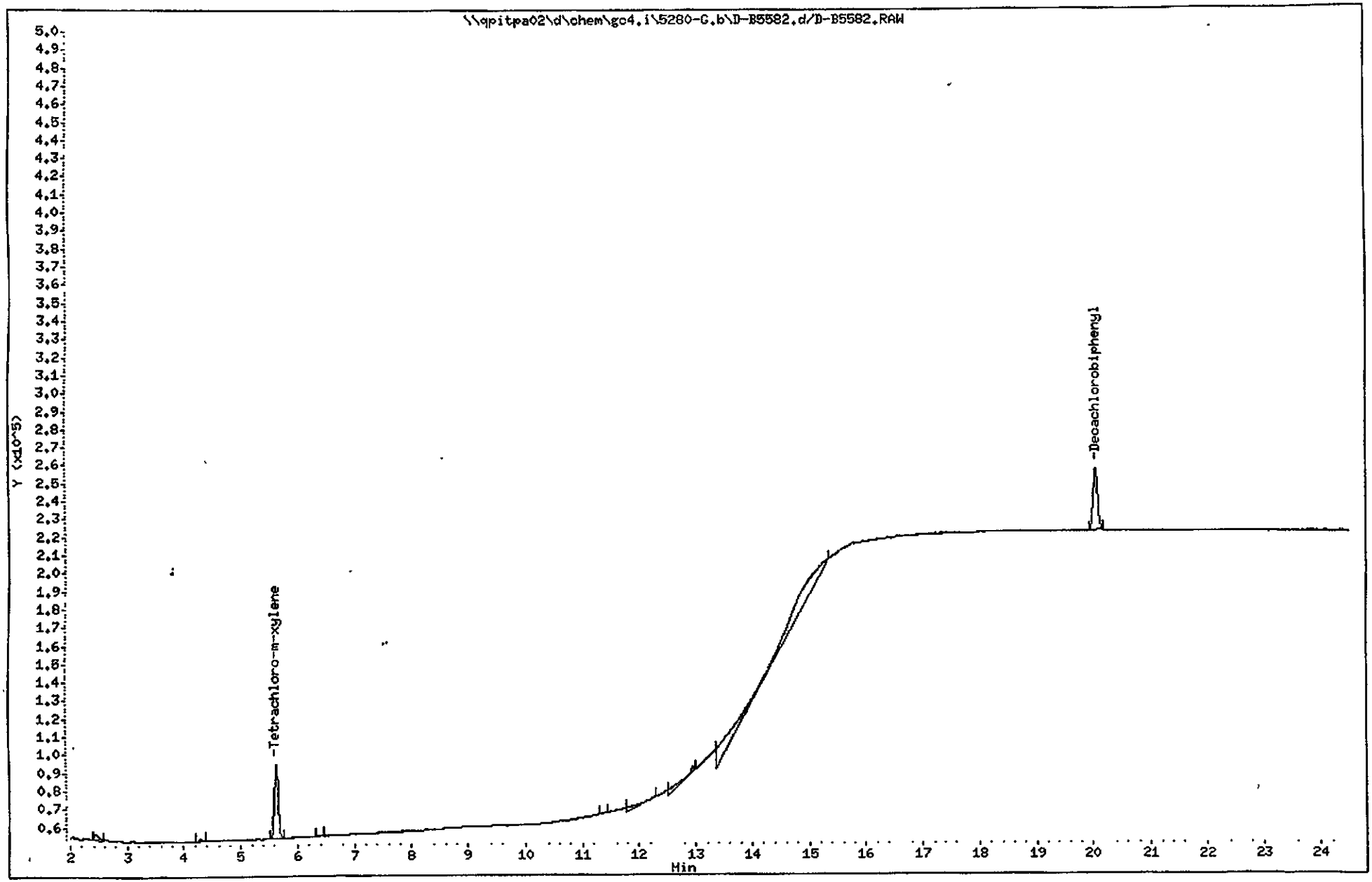
Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5582.d
Report Date: 28-Aug-2000 11:14

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
18	Toxaphene	Compound Not Detected.					
21	4,4'-DDD	Compound Not Detected.					
22	Endosulfan II	Compound Not Detected.					
23	4,4'-DDT	Compound Not Detected.					
24	Endrin aldehyde	Compound Not Detected.					
25	Methoxychlor	Compound Not Detected.					
26	Endosulfan sulfate	Compound Not Detected.					
58	MIREX	Compound Not Detected.					
29	Kepone	Compound Not Detected.					
27	Endrin ketone	Compound Not Detected.					
$ 30	Decachlorobiphenyl	20.053	20.060	-0.007	33939	0.02007	0.002007(aR)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5582.d
Date : 24-AUG-2000 02:37
Client ID: PBLK4434
Instrument: gc4.i
Sample Info: DJ6M5101,5280-G.b,,PEST.sub,,3,
Volume Injected (uL): 1.0
Operator: 1891
Column phase: DB1701
Column diameter: 0.53



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID:C0H210000 434

Sample WT/Vol: 100 / mL
Work Order: DJ6M5102
Dilution factor: 1
Moisture %:NA

Date Received: 08/16/00
Date Extracted:08/21/00
Date Analyzed: 08/24/00

QC Batch: 0234434

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00224	
76-44-8	Heptachlor	0.00233	
1024-57-3	Heptachlor epoxide	0.00238	
58-89-9	Lindane	0.00169	
72-43-5	Methoxychlor	0.00249	

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5583.d
Lab Smp Id: DJ6M5102 Client Smp ID: LCS4434
Inj Date : 24-AUG-2000 03:04
Operator : 1891 Inst ID: gc4.i
Smp Info : DJ6M5102,5280-G.b,,PEST.sub,,3,
Misc Info : 160154LCS
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC043

Concentration Formula: Amt * DF * (Vt/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
$ 1	Tetrachloro-m-xylene	5.626	5.633	-0.007	92830	0.04060	0.004060(aR)
5	alpha-BHC	8.373	8.380	-0 007	41043	0.01339	0.001339(a)
6	gamma-BHC (Lindane)	9.760	9.760	0.000	44918	0 01694	0.001694(aR)
9	Chlordane	Compound Not Detected.					
10	Heptachlor	10.686	10.686	0.000	68539	0.02331	0.002331(aR)
11	Aldrin	11.653	11.660	-0.007	66157	0.02323	0.002323(aR)
7	beta-BHC	12.180	12.186	-0.006	38657	0.02325	0 002325(a)
8	delta-BHC	Compound Not Detected.					
12	Heptachlor epoxide	13.353	13.360	-0.007	78766	0.02377	0.002377(a)
15	Endosulfan I	13.906	13.906	0.000	62467	0.01955	0.001954(a)
13	gamma-Chlordane	13.960	13.966	-0.006	70063	0.02065	0.002065(a)
14	alpha-Chlordane	14.060	14.066	-0.006	77460	0.02342	0.002342(a)
16	4,4'-DDE	14.220	14.220	0.000	88683	0.02633	0.002633(a)
17	Dieldrin	14.500	14.506	-0.006	82589	0.02432	0.002432(aR)
20	Endrin	14.820	14.820	0.000	70802	0.02239	0.002239(aR)
18	Toxaphene	Compound Not Detected.					

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5583.d
Report Date: 28-Aug-2000 11:14

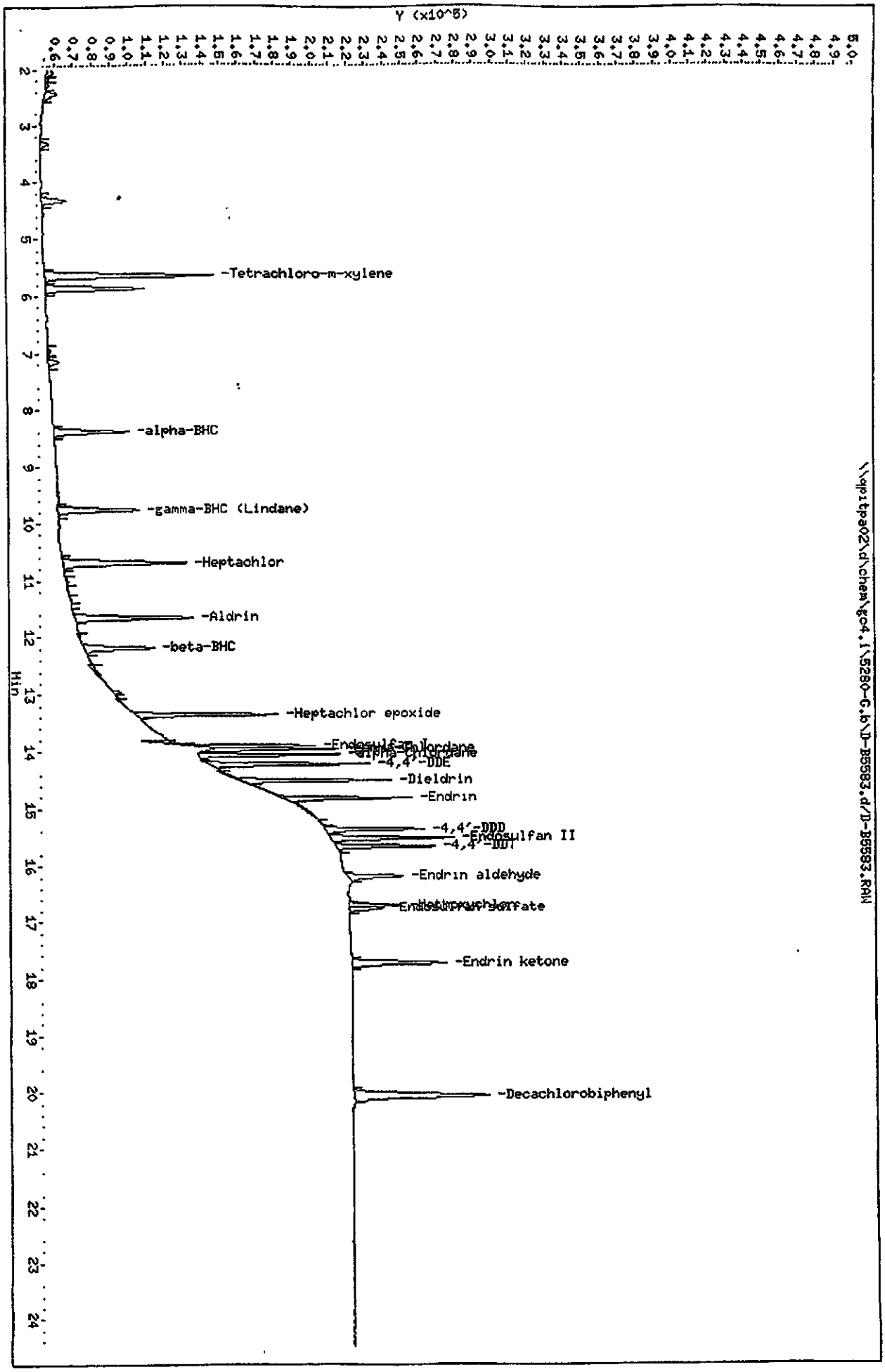
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (mg/L)
21	4,4'-DDD	15.366	15.366	0.000	54688	0.02224	0.002224(a)
22	Endosulfan II	15.513	15.520	-0.007	68017	0.02376	0.002376(a)
23	4,4'-DDT	15.660	15.660	0.000	54807	0.02206	0.002206(aR)
24	Endrin aldehyde	16.180	16.186	-0 006	31428	0.02344	0 002344(a)
25	Methoxychlor	16.700	16.700	0.000	29130	0.02495	0.002494(a)
26	Endosulfan sulfate	16.766	16.773	-0 007	18642	0.01064	0.001064(a)
58	MIREX	Compound Not Detected.					
29	Kepone	Compound Not Detected.					
27	Endrin ketone	17.733	17.740	-0.007	52702	0.02553	0.002553(a)
$ 30	Decachlorobiphenyl	20.060	20 060	0.000	75107	0.04441	0.004441(aR)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5583.d
Date : 24-AUG-2000 03:04
Client ID: LCS4434
Sample Info: DJ6M5102,5280-G,b,,PEST,sub,,3,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53



PESTICIDE
MISCELLANEOUS

STL Pittsburgh

TCLP (Method 1311)

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571

Quanterra Environmental Services

QUA-4181

Filter Lot # 832001101W

Serial Number: 085 | Log Book Number: 96-MT-52E

By	Date	Checked by	Date	pH Instrument	Probe	Balance
Jamael Murphy	8-17-00	Eileen M. Fawot	8-18-00	Accument AR25	SN005946C7	C948117

Project Number	Lot Number	Client Codes	Solution Number 1 - Log Book Number	Solution Number 2 - Log Book Number
	CON160154, CON170113		004497-12	

Fluid Determination

Sample ID	Wgt/Vol	Init pH	Final pH	Extract Fluid #1, or #2	Conc.: HNO_3 to Acidity (for Metals)
DHX40	5.00g / 96.5ml	5.49	1.91	Soln #1	6ml
DHX47		5.51	1.96		
DHX4A		5.59	1.67		
DJ00L		5.75	1.79		

J.M 8-17-00

J.M 8-17-00

TCLP Extraction

Sample ID	Wgt (g) Wet/Dry	Fluid Vol.	Glass	Final pH After Tumbling
1. PB-TCLP	—	2000ml		4.93
2. DHX40	100.0g			5.05
3. ↓				5.08
4. DHX47				5.09
5. DHX4A				5.04
6. DJ00L				5.53
7.				
8.				
9.				
10.				
11.				
12.				
13.				

J.M 8-17-00

Extract(s) Received / Relinquished

Extract(s) (Record line number from above)	Received Date	Received Time	Received Analyst	Received Location	Relinquished Date	Relinquished Time	Relinquished Analyst	Relinquished Location
All above	8-18-00	11:00	Jamael Murphy	Metals Prep	8-18-00	11:30	[signature]	17E

* = Sample determined to have free-liquid, % solid determination was performed.

<5 = Extraction Fluid No. 1 5.7 mL Glacial Acetic Acid dil 500 mL + 64.3 mL of 1N Na OH dil to 1L (pH 4.93 ± 0.05)

>5 = Extraction Fluid No 2 5.7 mL Glacial Acetic Acid dil to 1L (pH 2.88 ± 0.05)

Room temp° = 21° pH E.F. = 4.93

Date/Time On: 8-17-00 1:00 | Date/Time Off: 8-18-00 | Agitation Apparatus RPMs: 30 ± 2 J.M - 8/17/00

pH Calibration	(4.0)	(7.0)	(10.0)
Date 8-17-00	4.01	7.02	10.05
Date 8-18-00	4.00	7.02	10.05

Comments

670 395

3095

STL Pittsburgh

Separatory Funnel Extraction Worksheet

(TCLP)

B#0234434

Hexane

TQ8268 Baker

STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8380

670 396

Date Extraction Began	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg.	Clean up Method
8-21-00	8-22-00	Test (8081A)	3510C	MeCl2	T19271	Baker	NA

	Lot Number	Sample ID	Client ID	pH	Sample Volume (mL)	Final Volume (mL)	Surrogate Number	Surrogate Volume (mL)	Matrix Spike No.	Matrix Spike Volume (mL)	Cleanup Date
1.	PDH160154	Blk	NA	5	100	10.0	190-99-11	1.0	NA	NA	NA
2.		LCS		5					190-98-10	1.0	
3.		001 MS		5							
4.		001 MSD		5					NA	NA	
5.		001		5							
6		002		5							
7.		003		5							
8.	PDH170113	001		7		10.0					
9.											
10.											
11.											
12.											
13.											
14.											
15.											
16.											
17.											
18.											
19.											
20.											
21.											
22.											
23.											
24											
Analyst	PY	PY	PY	PY	PY	KG	PY	PY	PY	PY	PY

P. Yurshinski 8-21-00

Extract(s) (Record line number from above)	Extract(s) Received Date	Time	Analyst	Location	Extract(s) Relinquished Date	Time	Analyst	Location
All Above	8-21-00	1800	P. Yurshinski	Org Prep	8-21-00	1810	P. Yurshinski	Blank
All Above	8-22-00	0400	K. Dick	Ref 12 Ext	8-22-00	0740	K. Dick	Ref 1-62
ALL ABOVE	8-23-00	1620	J. DERUBEIS	RF 1 6C	8-23-00	1655	J. DERUBEIS	RF 1 6C

Sodium Sulfate Mfg Baker Lot Number T23625 Reviewed By K. Dick Date 8-22

3099

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\5080-G.SEQ
Created by : DE11/02/98 on : 8/7/00 18:00
Edited by : DE08/07/00 on : 8/7/00 18:19
Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
REVIEWED BY:

H

Number of Times Edited : 1

√DE 8/7/00

5080H.PDF
5080G1X.PDF

Sequence File Header Information:

Number of Rows : 54
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel B

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB,5080-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal:Replace	MEDTOX,5080-G.b	190-98-12		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR,5080-G	190-85-10		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Cal:Replace	LOWIX,5080-G.b,	190-80-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MLOWIX,5080-G.b	190-80-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	MEDIX,5080-G.b,	190-80-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal:Replace	MHIGHIX,5080-G.	190-80-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	HIGHIX,5080-G.b	190-80-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	LOWF,5080-G.b,,	190-74-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	MLOWF,5080-G.b,	190-74-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	MEDF,5080-G.b,,	190-74-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	MHIGHF,5080-G.b	190-74-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal:Replace	HIGHF,5080-G.b,	190-74-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Cal:Replace	LOWA,5080-G.b,,	190-84-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Cal:Replace	MLOWA,5080-G.b,	190-84-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Cal:Replace	MEDA,5080-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Cal:Replace	MHIGHA,5080-G.b	190-84-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Cal:Replace	HIGHA,5080-G.b,	190-84-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Cal:Replace	LOWB,5080-G.b,,	190-84-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Cal:Replace	MLOWB,5080-G.b,	190-84-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Cal:Replace	MEDB,5080-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Cal:Replace	MHIGHB,5080-G.b	190-84-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Cal:Replace	HIGHB,5080-G.b,	190-84-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Std Check	2ND A,5080-G.b,	190-82-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Std Check	2ND B,5080-G.b,	190-82-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Std Check	EVALB,5080-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DGRC1101,5080-G	140198BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	DGRC1102,5080-G	140198LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DGRC1103,5080-G	140198LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DG7T7101,5080-G	140198018		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DG7T7101,5080-G	140198018		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DG7T7101,5080-G	140198018		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DG7TA101,5080-G	140198019		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DG7TA101,5080-G	140198019		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DG7TA101,5080-G	140198019		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DG7TC101,5080-G	140198020		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	DG7TC101,5080-G	140198020		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample	DG7TC101,5080-G	140198020		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample	~~DGD7P10I,5080-G~~	~~180137004I~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DGD7P10L,5080-G	180137004S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DGD7P10M,5080-G	180137004D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DGM9M101,5080-G	180137BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	~~DGM9M102,5080-G~~	~~180137LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DHEH6101,5080-G	030147BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DHEH6102,5080-G	030147LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DHEH6103,5080-G	030147LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Std Check	MEDA,5080-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Std Check	MEDB,5080-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Std Check	EVALB,5080-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DH991102,5080-G	030147019		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DHA8R102,5080-G	030241009		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DHA9A102,5080-G	030241012		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Std Check	MEDA,5080-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Std Check	MEDB,5080-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel B

Row	Site	Rack	Vial	Inst	Process	Calib	Report	Raw	Result	Baseline	Modified	Cal	Level	Update	Out

670-398

				Method	Method	Method	Format	File	File	File	Raw File	Rpt	Name	RT	Dev
1	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5151	D-B5151		D-B5151	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B5152	D-B5152		D-B5152	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B5153	D-B5153		D-B5153	N	MED	N	LPT1:,LP
4	-	1	9	GEN4C	GEN4B	122190A	INDA	D-B5154	D-B5154		D-B5154	N	LOW	N	LPT1:
5	-	1	10	GEN4C	GEN4B	122190A	INDA	D-B5155	D-B5155		D-B5155	N	MLOW	N	LPT1:
6	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5156	D-B5156		D-B5156	N	MLOW	N	LPT1:
7	-	1	12	GEN4C	GEN4B	122190A	INDA	D-B5157	D-B5157		D-B5157	N	MLOW	N	LPT1:
8	-	1	13	GEN4C	GEN4B	122190A	INDA	D-B5158	D-B5158		D-B5158	N	MLOW	N	LPT1:
9	-	1	4	GEN4C	GEN4B	122190A	INDA	D-B5159	D-B5159		D-B5159	N	LOW	N	LPT1:
10	-	1	5	GEN4C	GEN4B	122190A	INDA	D-B5160	D-B5160		D-B5160	N	MLOW	N	LPT1:
11	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5161	D-B5161		D-B5161	N	MLOW	N	LPT1:
12	-	1	7	GEN4C	GEN4B	122190A	INDA	D-B5162	D-B5162		D-B5162	N	MLOW	N	LPT1:
13	-	1	8	GEN4C	GEN4B	122190A	INDA	D-B5163	D-B5163		D-B5163	N	MLOW	N	LPT1:
14	-	1	4	GEN4C	GEN4B	122190A	INDA	D-B5164	D-B5164		D-B5164	N	LOW	N	LPT1:
15	-	1	5	GEN4C	GEN4B	122190A	INDA	D-B5165	D-B5165		D-B5165	N	MLOW	N	LPT1:
16	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5166	D-B5166		D-B5166	N	MLOW	N	LPT1:
17	-	1	7	GEN4C	GEN4B	122190A	INDA	D-B5167	D-B5167		D-B5167	N	MLOW	N	LPT1:
18	-	1	8	GEN4C	GEN4B	122190A	INDA	D-B5168	D-B5168		D-B5168	N	MLOW	N	LPT1:
19	-	1	9	GEN4C	GEN4B	122190A	INDA	D-B5169	D-B5169		D-B5169	N	LOW	N	LPT1:
20	-	1	10	GEN4C	GEN4B	122190A	INDA	D-B5170	D-B5170		D-B5170	N	MLOW	N	LPT1:
21	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5171	D-B5171		D-B5171	N	MLOW	N	LPT1:
22	-	1	12	GEN4C	GEN4B	122190A	INDA	D-B5172	D-B5172		D-B5172	N	MLOW	N	LPT1:
23	-	1	13	GEN4C	GEN4B	122190A	INDA	D-B5173	D-B5173		D-B5173	N	MLOW	N	LPT1:
24	-	1	23	GEN4C	GEN4B	122190A	INDA	D-B5174	D-B5174		D-B5174	-	-	-	LPT1:
25	-	1	24	GEN4C	GEN4B	122190A	INDA	D-B5175	D-B5175		D-B5175	-	-	-	LPT1:
26	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5176	D-B5176		D-B5176	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5177	D-B5177		D-B5177	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5178	D-B5178		D-B5178	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5179	D-B5179		D-B5179	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5180	D-B5180		D-B5180	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5181	D-B5181		D-B5181	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5182	D-B5182		D-B5182	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5183	D-B5183		D-B5183	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5184	D-B5184		D-B5184	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5185	D-B5185		D-B5185	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5186	D-B5186		D-B5186	-	-	-	LPT1:
37	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5187	D-B5187		D-B5187	-	-	-	LPT1:
38	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5188	D-B5188		D-B5188	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5189	D-B5189		D-B5189	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5190	D-B5190		D-B5190	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5191	D-B5191		D-B5191	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5192	D-B5192		D-B5192	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5193	D-B5193		D-B5193	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5194	D-B5194		D-B5194	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5195	D-B5195		D-B5195	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5196	D-B5196		D-B5196	-	-	-	LPT1:
47	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5197	D-B5197		D-B5197	-	-	-	LPT1:
48	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5198	D-B5198		D-B5198	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5199	D-B5199		D-B5199	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5200	D-B5200		D-B5200	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5201	D-B5201		D-B5201	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5202	D-B5202		D-B5202	-	-	-	LPT1:
53	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5203	D-B5203		D-B5203	-	-	-	LPT1:
54	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5204	D-B5204		D-B5204	-	-	-	LPT1:

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\5230-G.SEQ
Created by : DE11/02/98 on : 8/23/00 11:07
Edited by : LM08/23/00 on : 8/28/00 09:39
Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
REVIEWED BY:

Number of Times Edited : 8

Sequence File Header Information:

Number of Rows : 177
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel B

Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB,5280-G.b,	190-88-8	545	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal.Replace	MEDTOX,5280-G.b	190-98-12		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
3	Cal.Replace	MEDCHLOR,5280-G	190-85-10		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Cal:Replace	MEDA,5280-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MEDB,5280-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	DGLF4113,5280-G	210212001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	DHN8P10A,5280-G	100270006		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
8	Sample	DHV7M103,5280-G	150146001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	~~DHLW6138,5280-G~~	~~100137001~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
10	Sample	DHLXR108,5280-G	100137002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
11	Sample	~~DHLXT100,5280-G~~	~~100137003~~		1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	~~DHLXW100,5280-G~~	~~100137004~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	DHM03108,5280-G	100137005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	DHM06108,5280-G	100137006		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	DHM07108,5280-G	100137007		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	DHM0A108,5280-G	100137008		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DHM0A11G,5280-G	100137008S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DHM0A11H,5280-G	100137008D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DHM0E108,5280-G	100137009		1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
20	Sample	DHM0F108,5280-G	100137010		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DHM0M108,5280-G	100137012		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DHM0R108,5280-G	100137014		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
23	Sample	DJ412115,5280-G	180213004S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DHQEW101,5280-G	100137BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DHQEW102,5280-G	100137LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Std Check	MEDA,5280-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Std Check	MEDB,5280-G.b,,	190-84-9	571	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Std Check	EVALB,5280-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DJ412116,5280-G	180213004D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DJ412104,5280-G	180213004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DJ417104,5280-G	180213005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DJ4WJ101,5280-G	180213BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DJ4WJ102,5280-G	180213LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DJ52C101,5280-G	180213BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DJ52C102,5280-G	180213LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DJ52C103,5280-G	180213LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	DJ401103,5280-G	180213001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample	DJ6M5101,5280-G	160154BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample	DJ6M5102,5280-G	160154LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DHX40119,5280-G	160154001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DHX4011A,5280-G	160154001D		1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
42	Sample	DHX40104,5280-G	160154001	TCLP	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DHX47104,5280-G	160154002		1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
44	Sample	DHX4A104,5280-G	160154003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DJ0QL104,5280-G	170113001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DJ4C3101,5280-G	170224BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DJ4C3102,5280-G	170224LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	DJ4C3103,5280-G	170224LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Std Check	MEDA,5280-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Std Check	MEDB,5280-G.b,,	190-84-9	594	1.000	1 000	1.000	1.000	1.000	1.000	0.000	100.000
51	Std Check	EVALB,5280-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DJ1RT103,5280-G	170224001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DJ1WG103,5280-G	170224003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DJ1X0103,5280-G	170224004		1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
55	Sample	DJ2N3101,5280-G	160223BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DJ2N3102,5280-G	160223LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DJ2N3103,5280-G	160223LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DHXN9104,5280-G	160223001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DHXND104,5280-G	160223002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

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60	Sample	DHXNF10A,5280-G	160223003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Sample	~~DHGDF103,5280-G~~	~~070171001~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Sample	DHGDH103,5280-G	070171003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Sample	~~DHGDM103,5280-G~~	~~070171001~~	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
64	Sample	~~DHGDP103,5280-G~~	~~070171005~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Sample	~~DHGDX103,5280-G~~	~~070171013~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Sample	~~DHGE2103,5280-G~~	~~070171015~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
67	Sample	~~DHGE5103,5280-G~~	~~070171017~~	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
68	Sample	~~DHGE7103,5280-G~~	~~070171019~~	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
69	Sample	DHNLX101,5280-G	070171BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
70	Sample	DHNLX102,5280-G	070171LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
71	Sample	DHNLX103,5280-G	070171LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
72	Std Check	MEDA,5280-G.b,,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
73	Std Check	MEDB,5280-G.b,,	190-84-9 617 (UPDATED L.T.)	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
74	Std Check	EVALB,5280-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
75	Sample	~~DHGEC103,5280-G~~	~~070171021~~	1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
76	Sample	~~DHGEE103,5280-G~~	~~070171023~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
77	Sample	~~DHGEH103,5280-G~~	~~070171026~~	1.000	1.000	1 000	1.000	1.000	1.000	0.000	100.000
78	Sample	~~DHGEM103,5280-G~~	~~070171028~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
79	Sample	~~DHGEP103,5280-G~~	~~070171030~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
80	Sample	~~DHGET103,5280-G~~	~~070171032~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
81	Sample	DHGEW103,5280-G	070171034	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
82	Sample	DJ0FK101,5280-G	070171BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
83	Sample	DJ0FK102,5280-G	070171LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
84	Sample	DJ0FK103,5280-G	070171LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
85	Sample	DHGDK103,5280-G	070171005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
86	Sample	~~DHGEG103,5280-G~~	~~070171025~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
87	Sample	DHGF9103,5280-G	070171036	1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
88	Sample	DHGFH103,5280-G	070171037	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
89	Sample	DHGFN103,5280-G	070171038	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
90	Sample	DHXCX103,5280-G	070171040	1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
91	Sample	DJ1Q4104,5280-G	170215001	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
92	Sample	DJ1Q8109,5280-G	170215003S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
93	Sample	DJ8V4101,5280-G	170215BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
94	Sample	DJ8V4102,5280-G	170215LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
95	Std Check	MEDA,5280-G.b,,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
96	Std Check	MEDB,5280-G.b,,	190-84-9 640	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
97	Std Check	EVALB,5280-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
98	Sample	DJ1Q810A,5280-G	170215003D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
99	Sample	DJ1Q4104,5280-G	170215002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
100	Sample	DJ1Q8108,5280-G	170215003	1.000	1.000	1.000	1 000	1.000	1.000	0.000	100.000
101	Sample	DJ1QF104,5280-G	170215004	1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
102	Sample	DJ1QG104,5280-G	170215005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
103	Sample	DJ1QJ104,5280-G	170215006	1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
104	Sample	DJ4MP104,5280-G	180281001	1.000	1.000	1.000	1.000	1.000	1 000	0.000	100.000
105	Sample	DJ4MR104,5280-G	180281002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
106	Sample	DHXDA104,5280-G	160189001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
107	Sample	DHXDG104,5280-G	160189002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
108	Sample	DHXDH104,5280-G	160189003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
109	Sample	DHXDL104,5280-G	160189004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
110	Sample	DHXDP104,5280-G	160189005	1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
111	Sample	DHXDT104,5280-G	160189006	1.000	1.000	1.000	1.000	1 000	1.000	0.000	100.000
112	Sample	DHXDV104,5280-G	160189007	1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
113	Sample	DHXDX104,5280-G	160189008	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
114	Sample	DJ1PM104,5280-G	170209001	1 000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
115	Sample	DJ6ML101,5280-G	180282BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
116	Sample	DJ6ML102,5280-G	180282LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
117	Sample	DJ6ML103,5280-G	180282LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
118	Std Check	MEDA,5280-G.b,,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
119	Std Check	MEDB,5280-G.b,,	190-84-9 663	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
120	Std Check	EVALB,5280-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
121	Sample	DJ4P1103,5280-G	180282004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
122	Sample	DJ4NQ103,5280-G	180282003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
123	Sample	DJ4P6103,5280-G	180282006	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
124	Sample	DJ4P8103,5280-G	180282007	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
125	Sample	DJ4PA103,5280-G	180282008	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
126	Sample	DJ4PD103,5280-G	180282009	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
127	Sample	DJ4PF103,5280-G	180282010	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
128	Sample	DJ4PL103,5280-G	180282011	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
129	Sample	DJ4PM103,5280-G	180282012	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
130	Sample	DHM0K108,5280-G	100137011	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
131	Sample	DHM0N108,5280-G	100137013	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
132	Sample	DJAQ1101,5280-G	100137BLK	1.000	1.000	1.000	1.000	1.000	1.000	0 000	100.000
133	Sample	DJAQ1102,5280-G	100137LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
134	Sample	DJAQ1103,5280-G	100137LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
135	Sample	~~DHV4Q104,5280-G~~	~~150136001~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
136	Sample	DHV58104,5280-G	150136002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
137	Sample	DHV5C104,5280-G	150136003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
138	Sample	DHV5E108,5280-G	150136004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
139	Sample	DJ023101,5280-G	150136BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
140	Sample	DJ023102,5280-G	150136LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
141	Std Check	MEDA,5280-G.b,,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
142	Std Check	MEDB,5280-G.b,,	190-84-9 (UPDATED L.T. 686 ~~688~~)	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
143	Std Check	EVALB,5280-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
144	Sample	DHV5E109,5280-G	150136004S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
145	Sample	DHV5E10A,5280-G	150136004D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
146	Sample	~~DHV5Y104,5280-G~~	~~150136005~~ ~~688~~ 690	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

147	Sample	DHV5K104,5280-G	150136006	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
148	Sample	DHV5M104,5280-G	150136007	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
149	Sample	~~DHV5Q104,5280-G~~	~~150136008~~ 693	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
150	Sample	DHV5T104,5280-G	150136009	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
151	Sample	DHV5X104,5280-G	150136010	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
152	Sample	DHV60104,5280-G	150136011	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000			
153	Sample	DJAN5101,5280-G	180278BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
154	Sample	DJAN5102,5280-G	180278LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
155	Sample	DJ4M410M,5280-G	180278001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
156	Sample	DJ4M410N,5280-G	180278001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
157	Sample	DJ4M4103,5280-G	180278001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000			
158	Sample	DJ7C810V,5280-G	220139001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
159	Sample	DJ7C810W,5280-G	220139001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
160	Sample	DJ7C8104,5280-G	220139001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
161	Sample	DJ7C9104,5280-G	220139002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
162	Sample	DJDTA101,5280-G	220139BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
163	Sample	DJDTA102,5280-G	220139LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
164	Std Check	MEDA,5280-G.b,,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
165	Std Check	MEDB,5280-G.b,,	190-84-9 709	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
166	Std Check	EVALB,5280-G.b,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
167	Sample	DJ7CC104,5280-G	220139003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
168	Sample	DHLX6108,5280-G	100137001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
169	Sample	~~DHLXR108,5280-G~~	~~100137002~~ 713	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
170	Sample	DHLXT108,5280-G	100137003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
171	Sample	DHLXW108,5280-G	100137004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
172	Sample	~~DHM06108,5280-G~~	~~100137006~~ 716	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
173	Sample	DHM0A108,5280-G	100137008	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
174	Sample	DHM0A11G,5280-G	100137008S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
175	Sample	~~DHM0A11H,5280-G~~	~~100137008D~~ 719	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
176	Std Check	MEDA,5280-G.b,,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			
177	Std Check	MEDB,5280-G.b,,	190-84-9 721	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000			

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Sequence Process Information - Channel B

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5545	D-B5545		D-B5545	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B5546	D-B5546		D-B5546	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B5547	D-B5547		D-B5547	N	MED	N	LPT1:,LP
4	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5548	D-B5548		D-B5548	N	MLOW	N	LPT1:
5	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5549	D-B5549		D-B5549	N	MLOW	N	LPT1:
6	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5550	D-B5550		D-B5550	-	-	-	LPT1:
7	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5551	D-B5551		D-B5551	-	-	-	LPT1:
8	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5552	D-B5552		D-B5552	-	-	-	LPT1:
9	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5553	D-B5553		D-B5553	-	-	-	LPT1:
10	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5554	D-B5554		D-B5554	-	-	-	LPT1:
11	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5555	D-B5555		D-B5555	-	-	-	LPT1:
12	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5556	D-B5556		D-B5556	-	-	-	LPT1:
13	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5557	D-B5557		D-B5557	-	-	-	LPT1:
14	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5558	D-B5558		D-B5558	-	-	-	LPT1:
15	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5559	D-B5559		D-B5559	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5560	D-B5560		D-B5560	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5561	D-B5561		D-B5561	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5562	D-B5562		D-B5562	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5563	D-B5563		D-B5563	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5564	D-B5564		D-B5564	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5565	D-B5565		D-B5565	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5566	D-B5566		D-B5566	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5567	D-B5567		D-B5567	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5568	D-B5568		D-B5568	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5569	D-B5569		D-B5569	-	-	-	LPT1:
26	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5570	D-B5570		D-B5570	-	-	-	LPT1:
27	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5571	D-B5571		D-B5571	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5572	D-B5572		D-B5572	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5573	D-B5573		D-B5573	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5574	D-B5574		D-B5574	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5575	D-B5575		D-B5575	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5576	D-B5576		D-B5576	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5577	D-B5577		D-B5577	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5578	D-B5578		D-B5578	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5579	D-B5579		D-B5579	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5580	D-B5580		D-B5580	-	-	-	LPT1:
37	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5581	D-B5581		D-B5581	-	-	-	LPT1:
38	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5582	D-B5582		D-B5582	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5583	D-B5583		D-B5583	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5584	D-B5584		D-B5584	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5585	D-B5585		D-B5585	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5586	D-B5586		D-B5586	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5587	D-B5587		D-B5587	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5588	D-B5588		D-B5588	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5589	D-B5589		D-B5589	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5590	D-B5590		D-B5590	-	-	-	LPT1:
47	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5591	D-B5591		D-B5591	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5592	D-B5592		D-B5592	-	-	-	LPT1:
49	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5593	D-B5593		D-B5593	-	-	-	LPT1:

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50	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5594	D-B5594	D-B5594	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5595	D-B5595	D-B5595	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5596	D-B5596	D-B5596	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5597	D-B5597	D-B5597	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5598	D-B5598	D-B5598	-	-	-	LPT1:
55	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5599	D-B5599	D-B5599	-	-	-	LPT1:
56	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5600	D-B5600	D-B5600	-	-	-	LPT1:
57	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5601	D-B5601	D-B5601	-	-	-	LPT1:
58	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5602	D-B5602	D-B5602	-	-	-	LPT1:
59	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5603	D-B5603	D-B5603	-	-	-	LPT1:
60	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5604	D-B5604	D-B5604	-	-	-	LPT1:
61	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5605	D-B5605	D-B5605	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5606	D-B5606	D-B5606	-	-	-	LPT1:
63	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5607	D-B5607	D-B5607	-	-	-	LPT1:
64	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5608	D-B5608	D-B5608	-	-	-	LPT1:
65	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5609	D-B5609	D-B5609	-	-	-	LPT1:
66	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5610	D-B5610	D-B5610	-	-	-	LPT1:
67	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5611	D-B5611	D-B5611	-	-	-	LPT1:
68	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5612	D-B5612	D-B5612	-	-	-	LPT1:
69	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5613	D-B5613	D-B5613	-	-	-	LPT1:
70	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5614	D-B5614	D-B5614	-	-	-	LPT1:
71	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5615	D-B5615	D-B5615	-	-	-	LPT1:
72	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5616	D-B5616	D-B5616	-	-	-	LPT1:
73	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5617	D-B5617	D-B5617	-	-	-	LPT1:
74	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5618	D-B5618	D-B5618	-	-	-	LPT1:
75	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5619	D-B5619	D-B5619	-	-	-	LPT1:
76	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5620	D-B5620	D-B5620	-	-	-	LPT1:
77	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5621	D-B5621	D-B5621	-	-	-	LPT1:
78	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5622	D-B5622	D-B5622	-	-	-	LPT1:
79	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5623	D-B5623	D-B5623	-	-	-	LPT1:
80	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5624	D-B5624	D-B5624	-	-	-	LPT1:
81	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5625	D-B5625	D-B5625	-	-	-	LPT1:
82	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5626	D-B5626	D-B5626	-	-	-	LPT1:
83	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5627	D-B5627	D-B5627	-	-	-	LPT1:
84	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5628	D-B5628	D-B5628	-	-	-	LPT1:
85	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5629	D-B5629	D-B5629	-	-	-	LPT1:
86	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5630	D-B5630	D-B5630	-	-	-	LPT1:
87	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5631	D-B5631	D-B5631	-	-	-	LPT1:
88	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5632	D-B5632	D-B5632	-	-	-	LPT1:
89	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5633	D-B5633	D-B5633	-	-	-	LPT1:
90	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5634	D-B5634	D-B5634	-	-	-	LPT1:
91	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5635	D-B5635	D-B5635	-	-	-	LPT1:
92	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5636	D-B5636	D-B5636	-	-	-	LPT1:
93	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5637	D-B5637	D-B5637	-	-	-	LPT1:
94	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5638	D-B5638	D-B5638	-	-	-	LPT1:
95	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5639	D-B5639	D-B5639	-	-	-	LPT1:
96	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5640	D-B5640	D-B5640	-	-	-	LPT1:
97	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5641	D-B5641	D-B5641	-	-	-	LPT1:
98	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5642	D-B5642	D-B5642	-	-	-	LPT1:
99	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5643	D-B5643	D-B5643	-	-	-	LPT1:
100	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5644	D-B5644	D-B5644	-	-	-	LPT1:
101	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5645	D-B5645	D-B5645	-	-	-	LPT1:
102	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5646	D-B5646	D-B5646	-	-	-	LPT1:
103	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5647	D-B5647	D-B5647	-	-	-	LPT1:
104	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5648	D-B5648	D-B5648	-	-	-	LPT1:
105	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5649	D-B5649	D-B5649	-	-	-	LPT1:
106	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5650	D-B5650	D-B5650	-	-	-	LPT1:
107	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5651	D-B5651	D-B5651	-	-	-	LPT1:
108	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5652	D-B5652	D-B5652	-	-	-	LPT1:
109	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5653	D-B5653	D-B5653	-	-	-	LPT1:
110	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5654	D-B5654	D-B5654	-	-	-	LPT1:
111	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5655	D-B5655	D-B5655	-	-	-	LPT1:
112	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5656	D-B5656	D-B5656	-	-	-	LPT1:
113	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5657	D-B5657	D-B5657	-	-	-	LPT1:
114	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5658	D-B5658	D-B5658	-	-	-	LPT1:
115	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5659	D-B5659	D-B5659	-	-	-	LPT1:
116	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5660	D-B5660	D-B5660	-	-	-	LPT1:
117	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5661	D-B5661	D-B5661	-	-	-	LPT1:
118	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5662	D-B5662	D-B5662	-	-	-	LPT1:
119	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5663	D-B5663	D-B5663	-	-	-	LPT1:
120	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5664	D-B5664	D-B5664	-	-	-	LPT1:
121	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5665	D-B5665	D-B5665	-	-	-	LPT1:
122	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5666	D-B5666	D-B5666	-	-	-	LPT1:
123	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5667	D-B5667	D-B5667	-	-	-	LPT1:
124	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5668	D-B5668	D-B5668	-	-	-	LPT1:
125	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5669	D-B5669	D-B5669	-	-	-	LPT1:
126	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5670	D-B5670	D-B5670	-	-	-	LPT1:
127	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5671	D-B5671	D-B5671	-	-	-	LPT1:
128	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5672	D-B5672	D-B5672	-	-	-	LPT1:
129	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5673	D-B5673	D-B5673	-	-	-	LPT1:
130	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5674	D-B5674	D-B5674	-	-	-	LPT1:
131	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5675	D-B5675	D-B5675	-	-	-	LPT1:
132	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5676	D-B5676	D-B5676	-	-	-	LPT1:
133	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5677	D-B5677	D-B5677	-	-	-	LPT1:
134	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5678	D-B5678	D-B5678	-	-	-	LPT1:
135	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5679	D-B5679	D-B5679	-	-	-	LPT1:
136	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5680	D-B5680	D-B5680	-	-	-	LPT1:

137	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5681	D-B5681	D-B5681	-	-	-	LPT1:
138	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5682	D-B5682	D-B5682	-	-	-	LPT1:
139	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5683	D-B5683	D-B5683	-	-	-	LPT1:
140	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5684	D-B5684	D-B5684	-	-	-	LPT1:
141	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5685	D-B5685	D-B5685	-	-	-	LPT1:
142	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5686	D-B5686	D-B5686	-	-	-	LPT1:
143	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5687	D-B5687	D-B5687	-	-	-	LPT1:
144	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5688	D-B5688	D-B5688	-	-	-	LPT1:
145	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5689	D-B5689	D-B5689	-	-	-	LPT1:
146	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5690	D-B5690	D-B5690	-	-	-	LPT1:
147	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5691	D-B5691	D-B5691	-	-	-	LPT1:
148	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5692	D-B5692	D-B5692	-	-	-	LPT1:
149	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5693	D-B5693	D-B5693	-	-	-	LPT1:
150	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5694	D-B5694	D-B5694	-	-	-	LPT1:
151	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5695	D-B5695	D-B5695	-	-	-	LPT1:
152	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5696	D-B5696	D-B5696	-	-	-	LPT1:
153	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5697	D-B5697	D-B5697	-	-	-	LPT1:
154	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5698	D-B5698	D-B5698	-	-	-	LPT1:
155	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5699	D-B5699	D-B5699	-	-	-	LPT1:
156	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5700	D-B5700	D-B5700	-	-	-	LPT1:
157	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5701	D-B5701	D-B5701	-	-	-	LPT1:
158	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5702	D-B5702	D-B5702	-	-	-	LPT1:
159	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5703	D-B5703	D-B5703	-	-	-	LPT1:
160	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5704	D-B5704	D-B5704	-	-	-	LPT1:
161	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5705	D-B5705	D-B5705	-	-	-	LPT1:
162	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5706	D-B5706	D-B5706	-	-	-	LPT1:
163	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5707	D-B5707	D-B5707	-	-	-	LPT1:
164	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5708	D-B5708	D-B5708	-	-	-	LPT1:
165	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5709	D-B5709	D-B5709	-	-	-	LPT1:
166	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5710	D-B5710	D-B5710	-	-	-	LPT1.
167	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5711	D-B5711	D-B5711	-	-	-	LPT1:
168	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5712	D-B5712	D-B5712	-	-	-	LPT1:
169	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5713	D-B5713	D-B5713	-	-	-	LPT1:
170	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5714	D-B5714	D-B5714	-	-	-	LPT1:
171	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5715	D-B5715	D-B5715	-	-	-	LPT1:
172	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5716	D-B5716	D-B5716	-	-	-	LPT1:
173	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5717	D-B5717	D-B5717	-	-	-	LPT1:
174	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5718	D-B5718	D-B5718	-	-	-	LPT1:
175	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5719	D-B5719	D-B5719	-	-	-	LPT1:
176	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5720	D-B5720	D-B5720	-	-	-	LPT1:
177	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5721	D-B5721	D-B5721	-	-	-	LPT1:

670 404

PSR1024 8/21/00 13:38:50 MT SAMPLE CUSTODIAN REMOVAL REQUEST

REQUESTED BY: YUSHINSC

METHOD: QJ Pesticides (8081A)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
1A,B CLP1	DHX40-1-04	___ ___ ___	260759	399411	A-36-QJ	COH160154	001		SOLID	0	3 1
1A,B CLP1	DHX47-1-04	___ ___ ___	260760	399411	A-36-QJ	COH160154	002		SOLID	0	3 1
1A,B CLP1	DHX4A-1-04	___ ___ ___	260761	399411	A-36-QJ	COH160154	003		SOLID	0	3 1
1E CLP1	DJ0QL-1-04	___ ___ ___	260762	399411	A-36-QJ	COH170113	001		SOLID	0	3 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
T. Yushinski	T. Yushinski	8-21-00 1535
T. Yushinski	T. Yushinski	8-21-00 1930

***** END OF REPORT *****

HERBICIDE DATA

HERBICIDE
QC SUMMARY

SW846 8151A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0H170113

	CLIENT ID.	SRG01	TOT OUT
~~01~~	~~INTRA-LAB QC~~	~~52~~	~~00~~
02	DF/S1/0228/GRAB/006	42	00
03	METHOD BLK. DJ6M3101	82	00
04	LCS DJ6M3102	93	00
~~05~~	~~LAB MS/MSD D~~	~~48~~	~~00~~
~~06~~	~~LAB MS/MSD S~~	~~52~~	~~00~~

JD 8/25/00

SURROGATES	QC LIMITS
SRG01 = DCAA	(42-125)

\# Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

670 408

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Lot #: C0H210000 WO #: DJ6M3102
BATCH: 0234431

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
2,4-D	0.160	0.129	81	28 - 136	
2,4,5-TP (Silvex)	0.0400	0.0337	84	50 - 128	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8151A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C0H160154 WO #: DHX40117
BATCH: 0234431

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
2,4-D	0.160	ND	0.121	76	35- 133	
2,4,5-TP (Silvex)	0.0400	ND	0.0311	78	50- 131	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

670 410 SW846 8151A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C0H160154 WO #: DHX40118
BATCH: 0234431

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
2,4-D	0.160	0.120	75	1.3	20	35- 133	
2,4,5-TP (Silvex)	0.0400	0.0305	76	1.8	20	50- 131	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8151A METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DJ6M3101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: A-A50304.

Lot Number: C0H170113

Matrix: SOLID

Extraction Method:

Date Extracted: 08/21/00

Date Analyzed(1): 08/22/00

Date Analyzed(2): N/A

Time Analyzed(1): 19:15

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

GC Column(1): DB5/DB1701 ID: 053

GC Column(2): N/A ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED(1)	DATE ANALYZED(2)
~~01~~	~~INTRA-LAB QC~~	~~DHX40105~~	~~08/22/00~~	~~N/A~~
~~02~~	~~LAB MS/MSD~~	~~DHX40117 S~~	~~08/22/00~~	~~N/A~~
~~03~~	~~LAB MS/MSD~~	~~DHX40118 D~~	~~08/22/00~~	~~N/A~~
04	DF/S1/0228/GRAB/006	DJ0QL105	08/22/00	N/A
05	CHECK SAMPLE	DJ6M3102 C	08/22/00	N/A
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

JD 8/25/00

COMMENTS:

FORM IV

670 412

HERBICIDE
SAMPLE DATA

UXB INTERNATIONAL

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8151A
Herbicides (8151A)

Lab Sample ID:C0H170113 001

Sample WT/Vol: 100 / mL
Work Order: DJ0QL105
Dilution factor: 1
Moisture %:20

Date Received: 08/17/00
Date Extracted:08/21/00
Date Analyzed: 08/22/00

QC Batch: 0234431

Client Sample Id: DF/S1/0228/GRAB/006

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

FORM I

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50300.D
Report Date: 23-Aug-2000 08:58

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50300.D
Lab Smp Id: DJ0QL105 Client Smp ID: DF/S1/0228/GRAB/006
Inj Date : 22-AUG-2000 17:20
Operator : 01797 Inst ID: gc1.i
Smp Info : DJ0QL105,5100.b
Misc Info : 17011301
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 23-Aug-2000 08:11 colussyj Quant Type: ESTD
Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC085

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
1	DALAPON	Compound Not Detected					
$ 2	DCAA	10.582	10.572	0.010	6730015	0.02088	0.04176(aRM)
3	MCPP	Compound Not Detected					
4	DICAMBA	Compound Not Detected.					
5	MCPA	Compound Not Detected.					
6	DICHLOROPROP	Compound Not Detected.					
7	2,4-D	Compound Not Detected.					
8	PENTACHLOROPHENOL	Compound Not Detected.					
9	2,4,5-TP(SILVEX)	Compound Not Detected.					
10	2,4,5-T	Compound Not Detected.					
11	DINOSEB	Compound Not Detected.					
12	2,4-DB	18 513	18.563	-0.050	989310	0.00540	0.01080(a)

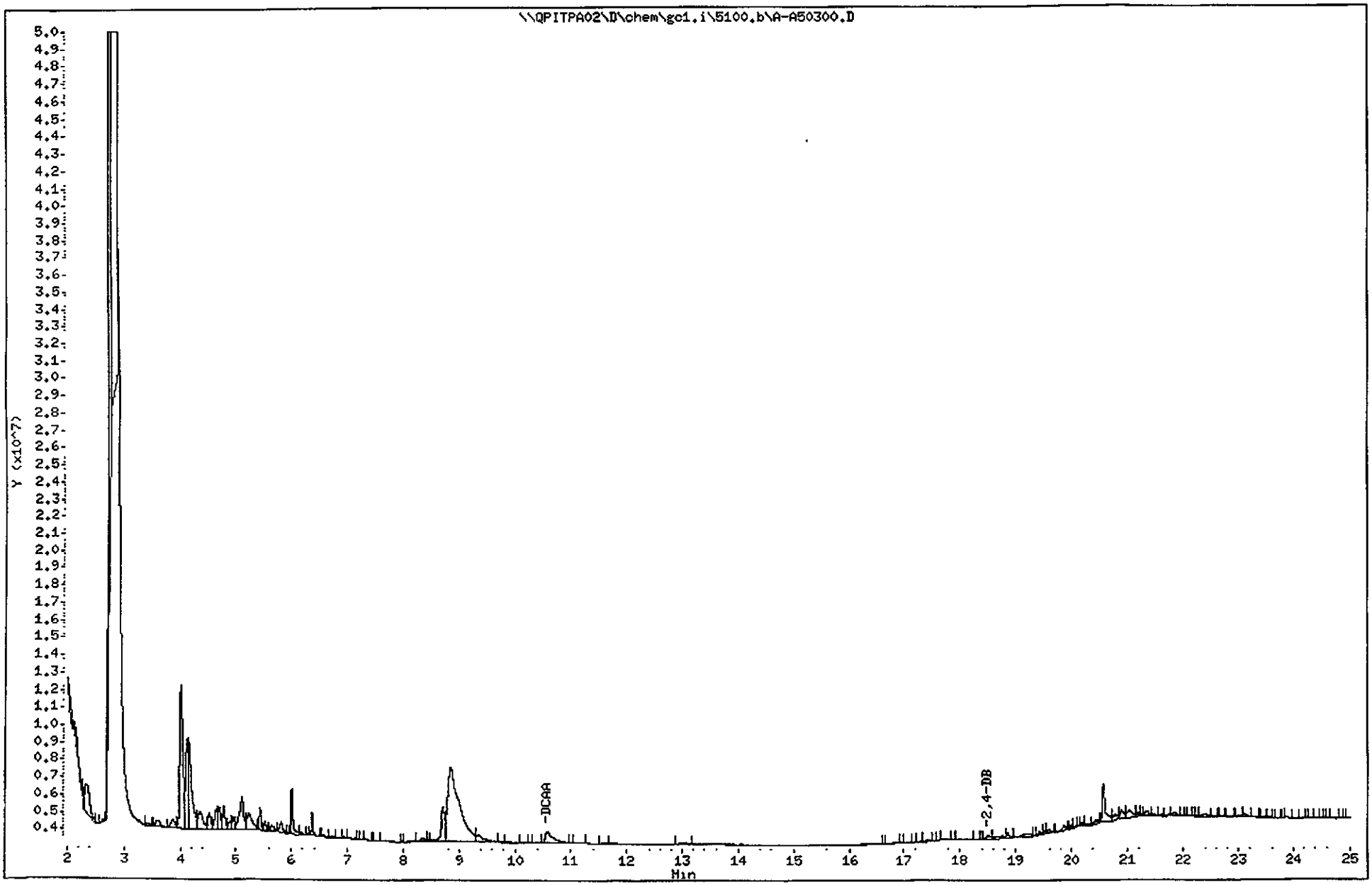
Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50300.D
Report Date: 23-Aug-2000 08:58

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50300.D
Date : 22-AUG-2000 17:20
Client ID: DF/S1/0228/CRAB/006
Sample Info: DJ0QL105,5100.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



HERBICIDE
CALIBRATION DATA

670 418

Report Date : 22-Aug-2000 13:17

LL
68901A
D0608

STL - Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Quant Method : ESTD
Last Update : 22-Aug-2000 13:16
Data Type : GC MULTI COMP
Target Version : 4.04
Number of Cpnds : 12

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	3608.000000
Initial:End Threshold	1804.000000
Initial:Area Threshold	36080.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	10.000000
Initial:Negative Peaks	ON
Initial:Tension	0.200000
0.000:Integrator OFF	n/a
2.000:Integrator ON	n/a

	Compound	RT	RT Window	RF
	1 DALAPON	3.732	3.662-3.802	8.93e+007
$	2 DCAA	10.572	10.502-10.642	3.22e+008
	3 MCPP	11.013	10.943-11.083	5.01e+005
	4 DICAMBA	11.182	11.112-11.252	2.30e+008
	5 MCPA	11.971	11.901-12.041	5.64e+005
	6 DICHLOROPROP	12.801	12.731-12.871	4.93e+007
	7 2,4-D	14.306	14.236-14.376	4.45e+007
	8 PENTACHLOROPHENOL	15.528	15.458-15.598	5.57e+008
	9 2,4,5-TP(SILVEX)	16.763	16.693-16.833	1.84e+009
	10 2,4,5-T	17.886	17.816-17.956	1.34e+009
	11 DINOSEB	18.065	17.995-18.135	1.41e+009
	12 2,4-DB	18.563	18.493-18.633	1.83e+008

Report Date : 10-Aug-2000 16:30

62
HP6890A
DB608

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 10-AUG-2000 10:19
End Cal Date : 10-AUG-2000 12:15
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Cal Date : 10-Aug-2000 16:28 eppingerd
Curve Type : Average

Calibration File Names:
Level 1: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50103.D
Level 2: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50104.D
Level 3: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50105.D
Level 4: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50106.D
Level 5: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50107.D

	Compound	0.00500 Level 1	0.01000 Level 2	0.02500 Level 3	0.05000 Level 4	0.10000 Level 5	RRF	% RSD	
1	DALAPON	97424455	93072727	91002779	83698724	81179426	89275622	7.524	
3	MCPP	681265	630930	522456	383315	284716	500536	33 201	<-
4	DICAMBA	220707170	230137371	243928918	229528449	226529376	230166257	3.715	
5	MCPA	776508	695450	582989	431197	334166	564062	32.359	<-
6	DICHLOROPROP	49158632	51162712	52161085	47671876	46352537	49301369	4 865	
7	2,4-D	42628152	44274706	47312844	44554365	43968632	44547740	3.846	
8	PENTACHLOROPHENOL	502838722	525058647	576543045	573417998	607178331	557007349	7.576	
9	2,4,5-TP(SILVEX)	1.901e+09	1.877e+09	1.922e+09	1 757e+09	1.754e+09	1.842e+09	4.377	
10	2,4,5-T	1.296e+09	1.358e+09	1.401e+09	1.321e+09	1.335e+09	1.342e+09	2.956	
11	DINOSEB	1.484e+09	1.464e+09	1.467e+09	1.320e+09	1.316e+09	1.410e+09	6.015	
12	2,4-DB	217813791	184847156	189191680	163999592	160050098	183180464	12.631	
$ 2	DCAA	355656009	348626753	335160787	296588071	275373868	322281098	10.787	

Avg RSD 10.89%

670 420

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50292.D
Report Date: 22-Aug-2000 13:13

12 689014 D6608

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: A-A50292.D
Analysis Type:
Lab Sample ID: MHERB
Method: \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m

Injection Date: 22-AUG-2000 12:35
Init. Cal. Date(s): 10-AUG-2000 10-AUG-2000
Init. Cal. Times: 10:19 12:15
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
	1 DALAPON	89275622	95364966	0.010	6 8	15.0	
$	2 DCAA	322281098	324583420	0 010	0.7	15.0	
	3 MCPP	500536	511776	0.010	2.2	15.0	
	4 DICAMBA	230166257	229502047	0.010	-0.3	15.0	
	5 MCPA	564062	567266	0.010	0.6	15.0	
	6 DICHLOROPROP	49301369	48868561	0.010	-0.9	15.0	
	7 2,4-D	44547740	42517767	0.010	-4.6	15.0	
	8 PENTACHLOROPHENOL	557007349	553029135	0.010	-0.7	15.0	
	9 2,4,5-TP(SILVEX)	1.842e+09	1.800e+09	0.010	-2.3	15.0	
	10 2,4,5-T	1.342e+09	1.253e+09	0.010	-6.6	15.0	
	11 DINOSEB	1.410e+09	1.634e+09	0.010	15.9	15.0	<-
	12 2,4-DB	183180464	161992012	0.010	-11.6	15.0	

4.43 %

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50306.D
Report Date: 23-Aug-2000 08:15

15 689014 D6608

670 421

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: A-A50306.D
Analysis Type:
Lab Sample ID: MHERB
Method: \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m

Injection Date: 22-AUG-2000 20:12
Init. Cal. Date(s): 10-AUG-2000 10-AUG-2000
Init. Cal. Times: 10:19 12:15
Quant Type: ESTD

	COMPOUND	RRF	RF0	MIN RRF	%D	MAX %D	
	1 DALAPON	89275622	96091936	0.010	7.6	15.0	
$	2 DCAA	322281098	328516134	0.010	1.9	15.0	
	3 MCPP	500536	510693	0.010	2.0	15.0	
	4 DICAMBA	230166257	230197435	0.010	0.0	15.0	
	5 MCPA	564062	559196	0.010	-0.9	15.0	
	6 DICHLOROPROP	49301369	48100708	0.010	-2.4	15.0	
	7 2,4-D	44547740	41521410	0.010	-6.8	15.0	
	8 PENTACHLOROPHENOL	557007349	547669267	0.010	-1.7	15.0	
	9 2,4,5-TP(SILVEX)	1.842e+09	1.811e+09	0.010	-1.7	15.0	
	10 2,4,5-T	1.342e+09	1.203e+09	0.010	-10.4	15.0	
	11 DINOSEB	1.410e+09	1.556e+09	0.010	10.3	15.0	
	12 2,4-DB	183180464	152395195	0.010	-16.8	15.0	<-

5.21%

670 422

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: C0H170113

GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 08/10/00 08/10/00

Instrument ID: GC1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.57

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	RT	#
01		LHERB	08/10/00	1019	10.58			
02		MLHERB	08/10/00	1048	10.58			
03		MHERB	08/10/00	1117	10.58			
04		MHHERB	08/10/00	1146	10.57			
05		HHERB	08/10/00	1215	10.57			
06		MHERB	08/22/00	1235	10.57			
07	DF/S1/0228/G	DJ0QL105	08/22/00	1720	10.58			
08	LCS	DJ6M3102	08/22/00	1846	10.58			
09	BLK	DJ6M3101	08/22/00	1915	10.59			
10		MHERB	08/22/00	2012	10.57			
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								

S1 = DCAA

QC LIMITS
(+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST OLM03.0

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50103.D
Report Date: 10-Aug-2000 16:25

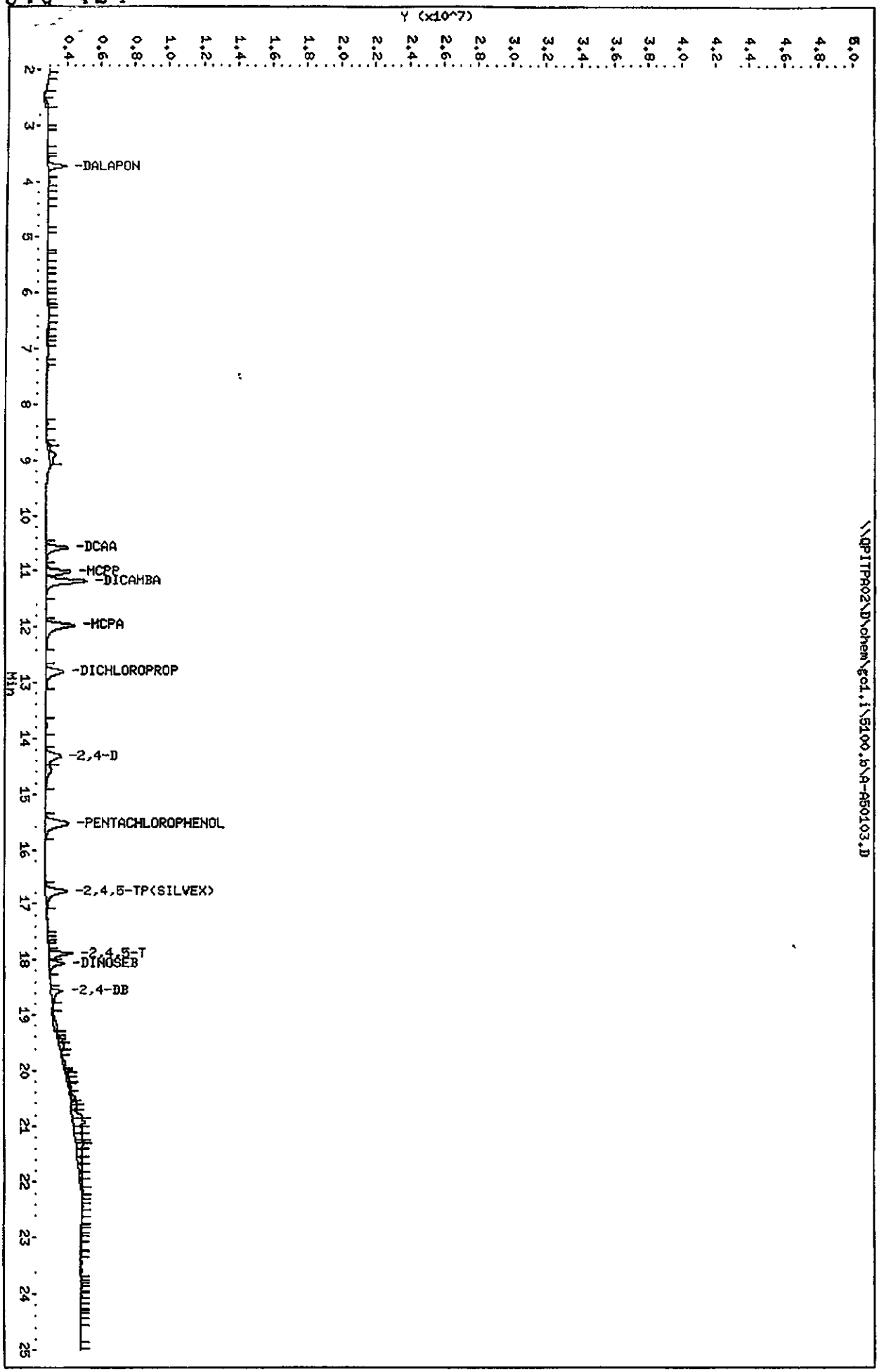
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50103.D
Lab Smp Id: Lherb
Inj Date : 10-AUG-2000 10:19
Operator : 01797 Inst ID: gc1.i
Smp Info : Lherb,5100.b
Misc Info : 190-94-1
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 10-Aug-2000 16:25 eppingerd Quant Type: ESTD
Cal Date : 10-AUG-2000 10:19 Cal File: A-A50103.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC086

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 DALAPON	3.727	3.730	-0.003	1071669	0.01100	0.01100
$	2 DCAA	10.576	10.575	0 001	7575473	0.02130	0.02130
	3 MCPP	11.015	11.018	-0.003	1444281	2.12000	2.120
	4 DICAMBA	11.184	11.188	-0.004	2339496	0.01060	0.01060
	5 MCPA	11.977	11.977	0.000	1661728	2.14000	2.140
	6 DICHLOROPROP	12.803	12.808	-0.005	1042163	0.02120	0.02120
	7 2,4-D	14.317	14.310	0.007	899454	0.02110	0.02110
	8 PENTACHLOROPHENOL	15.537	15.539	-0.002	1337551	0.00266	0.002660
	9 2,4,5-TP(SILVEX)	16.772	16.759	0.013	9978958	0.00525	0.005250
	10 2,4,5-T	17.886	17.886	0 000	6832309	0.00527	0 005270
	11 DINOSEB	18.062	18.065	-0.003	4705120	0.00317	0.003170
	12 2,4-DB	18.568	18 563	0.005	4595871	0.02110	0 02110

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50103.D
Date : 10-AUG-2000 10:19
Client ID:
Sample Info: Lherb,5100,b
Column phase: DB608

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53

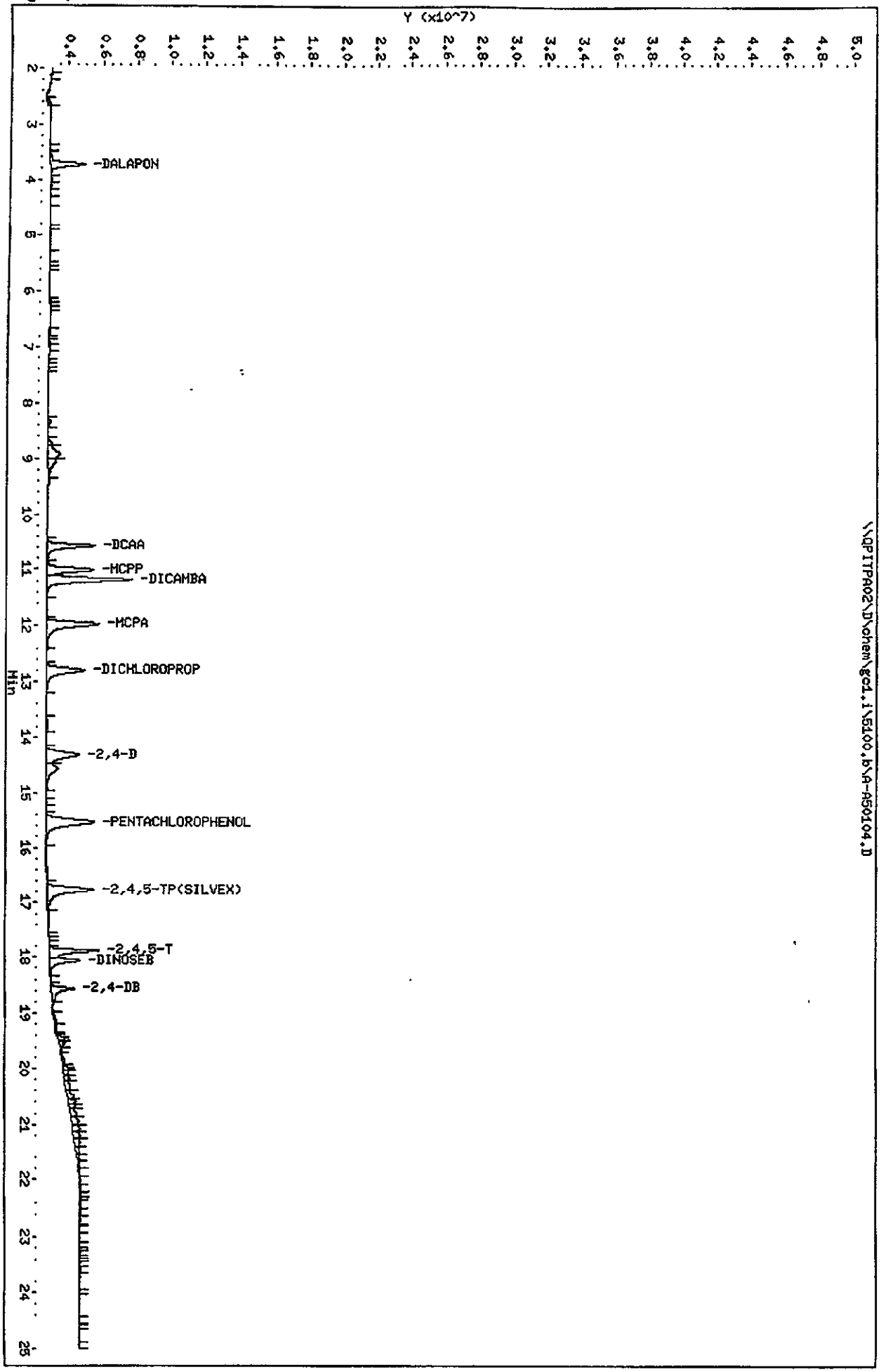


Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50104.D
Report Date: 10-Aug-2000 16:26

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50104.D
Lab Smp Id: MLherb
Inj Date : 10-AUG-2000 10:48
Operator : 01797 Inst ID: gc1.i
Smp Info : MLherb,5100.b
Misc Info : 190-94-2
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 10-Aug-2000 16:25 eppingerd Quant Type: ESTD
Cal Date : 10-AUG-2000 10:48 Cal File: A-A50104.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC086

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 DALAPON	3.728	3.730	-0.002	2047600	0.02200	0.02150
$	2 DCAA	10.575	10.575	0.000	14816637	0.04250	0.04208
	3 MCPP	11.014	11.018	-0.004	2687763	4.26000	4.096
	4 DICAMBA	11.188	11.188	0.000	4901926	0.02130	0.02174
	5 MCPA	11 975	11.977	-0.002	2976525	4.28000	4.044
	6 DICHLOROPROP	12.804	12.808	-0.004	2169299	0.04240	0.04325
	7 2,4-D	14.318	14.310	0.008	1881675	0.04250	0.04330
	8 PENTACHLOROPHENOL	15.534	15.539	-0 005	2793312	0.00532	0.005435
	9 2,4,5-TP(SILVEX)	16.761	16.759	0.002	19705532	0.01050	0.01043
	10 2,4,5-T	17.883	17.886	-0.003	14254305	0.01050	0.01074
	11 DINOSEB	18.065	18.065	0.000	9297434	0.00635	0.006307
	12 2,4-DB	18.563	18.563	0.000	7800550	0.04220	0.03874

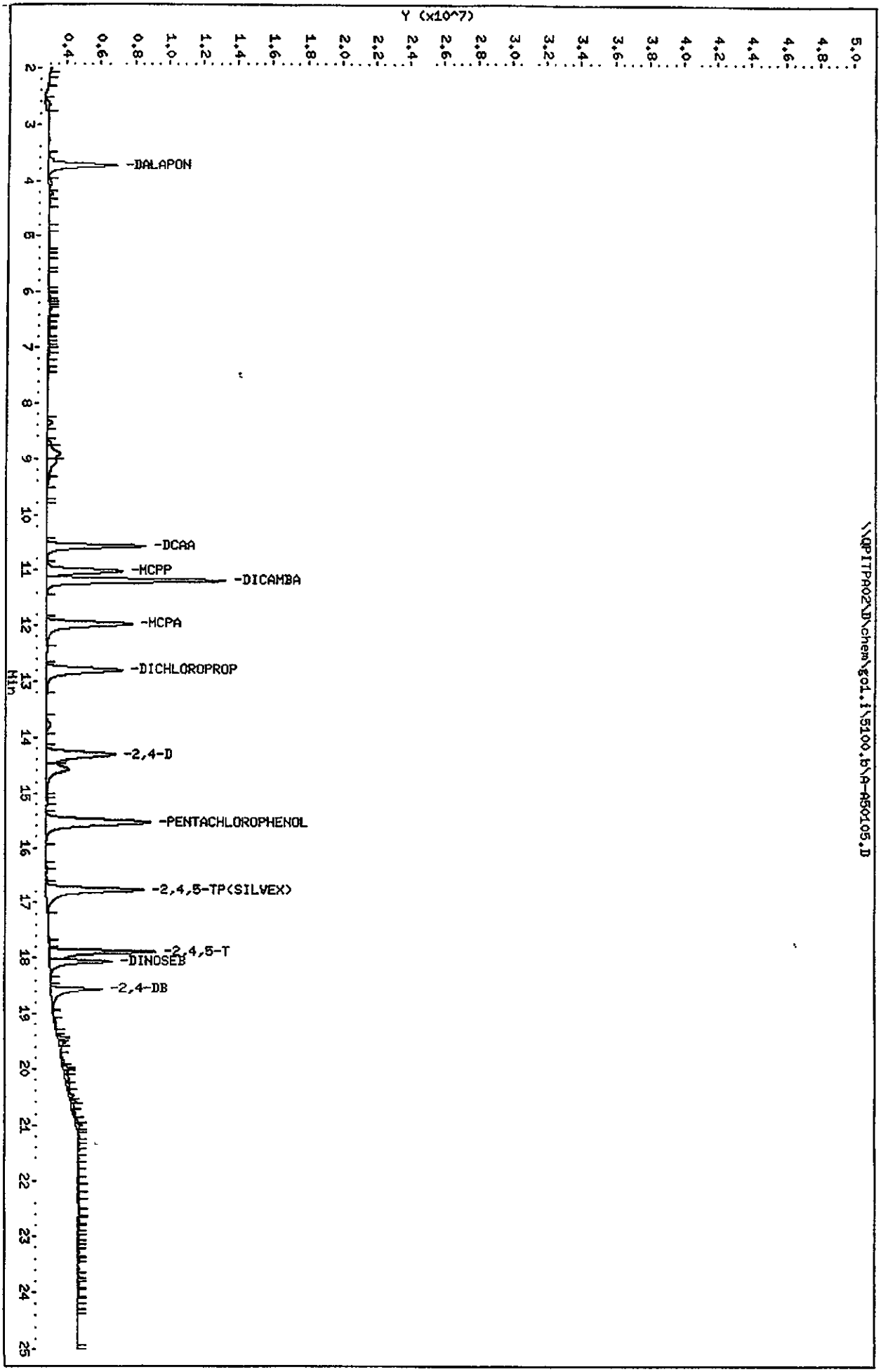

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50104.D
Date : 10-AUG-2000 10:48
Client ID:
Sample Info: MLherb,5100.b
Column phase: DB608
Instrument: gc1.i
Operator: 01797
Column diameter: 0.53
Y (x10^7)
Min
-DALAPON
-DCAA
-MCPP
-DICAMBA
-MCPA
-DICHLOROPROP
-2,4-D
-PENTACHLOROPHENOL
-2,4,5-TP(SILVEX)
-2,4,5-T
-DINOSEB
-2,4-DB
\\QPITPA02\D\chem\gc1.i\5100.b\A-A50104.D

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50105.D
Report Date: 10-Aug-2000 16:26

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50105.D
Lab Smp Id: Mherb
Inj Date : 10-AUG-2000 11:17
Operator : 01797 Inst ID: gc1.i
Smp Info : Mherb,5100.b
Misc Info : 190-94-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 10-Aug-2000 16:26 eppingerd Quant Type: ESTD
Cal Date : 10-AUG-2000 11:17 Cal File: A-A50105.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC086

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 DALAPON	3.730	3.730	0.000	3995022	0.04390	0.04258
$	2 DCAA	10.575	10.575	0.000	28522183	0 08510	0.08232
	3 MCPP	11.018	11.018	0.000	4451329	8 52000	7.279
	4 DICAMBA	11.188	11.188	0.000	10366979	0.04250	0.04476
	5 MCPA	11.977	11.977	0.000	4990385	8.56000	7.285
	6 DICHLOROPROP	12.808	12.808	0.000	4423260	0.08480	0.08702
	7 2,4-D	14.310	14.310	0.000	4026323	0.08510	0.09000
	8 PENTACHLOROPHENOL	15.539	15.539	0.000	6134418	0.01064	0.01147
	9 2,4,5-TP(SILVEX)	16 759	16.759	0.000	40562284	0.02110	0.02135
	10 2,4,5-T	17.886	17.886	0.000	29562585	0.02110	0.02187
	11 DINOSEB	18.065	18.065	0.000	18630907	0.01270	0.01266
	12 2,4-DB	18.563	18.563	0.000	15986697	0.08450	0.08103

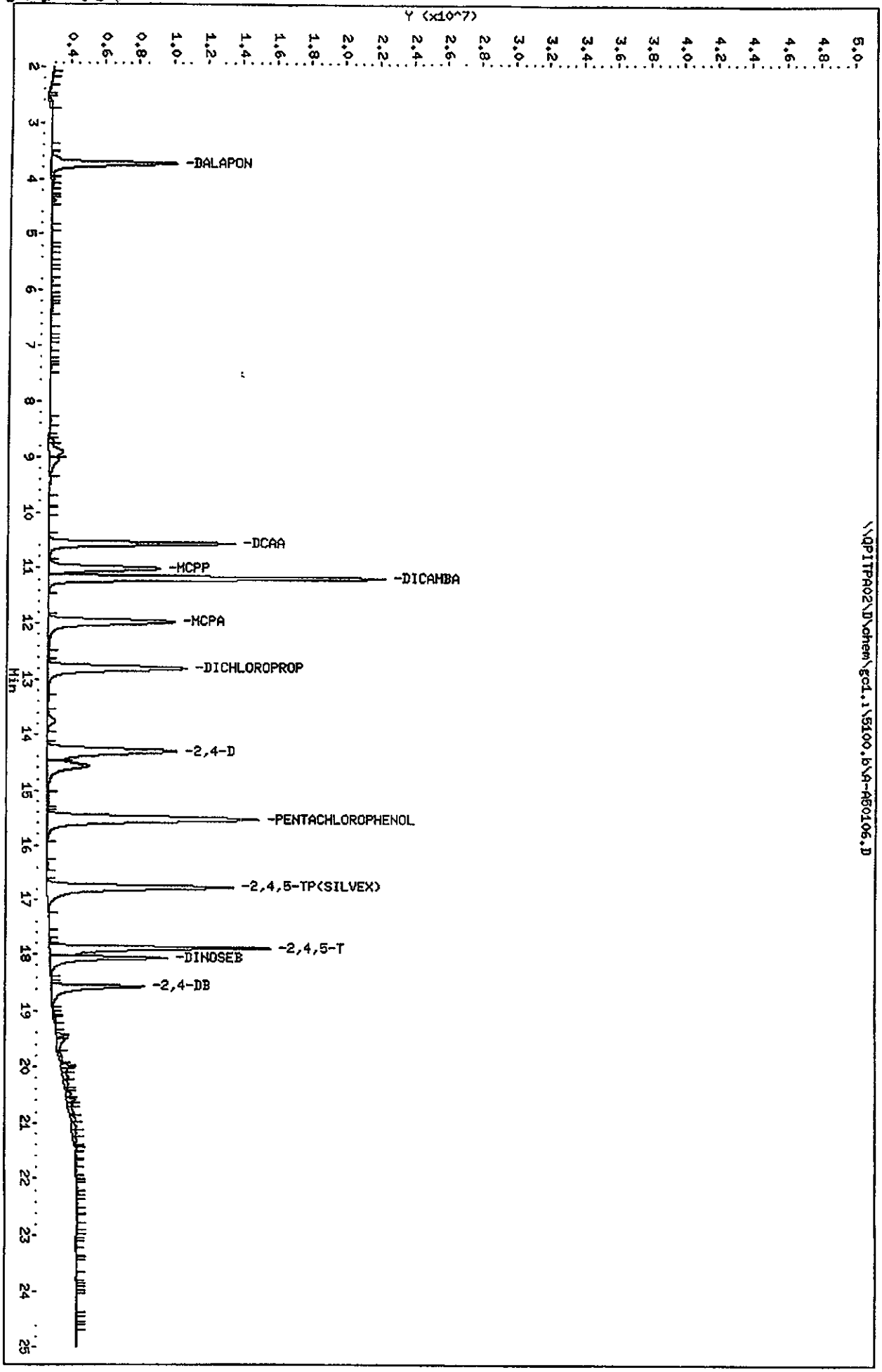

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50105.D
Date : 10-AUG-2000 11:17
Client ID:
Sample Info: MHerb,5100.b
Column phase: DB608
Instrument: gc1.i
Operator: 01797
Column diameter: 0.53
\\QPITPA02\D\chem\gc1.i\5100.b\A-A50105.D
Y (x10^7)
Min
-DALAPON
-DCAA
-MCPP
-DICAMBA
-MCPA
-DICHLOROPROP
-2,4-D
-PENTACHLOROPHENOL
-2,4,5-TP(SILVEX)
-2,4,5-T
-DINOSEB
-2,4-DB

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50106.D
Report Date: 10-Aug-2000 16:27

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50106.D
Lab Smp Id: MHherb
Inj Date : 10-AUG-2000 11:46
Operator : 01797 Inst ID: gc1.i
Smp Info : MHherb,5100.b
Misc Info : 190-94-4
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 10-Aug-2000 16:27 eppingerd Quant Type: ESTD
Cal Date : 10-AUG-2000 11:46 Cal File: A-A50106.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC086

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 DALAPON	3.731	3 730	0.001	7348748	0.08780	0.08049
$	2 DCAA	10.574	10.575	-0 001	50419972	0.17000	0.1510
	3 MCPP	11.016	11 018	-0.002	6516349	17.0000	11.75
	4 DICAMBA	11.188	11.188	0.000	19532871	0.08510	0.08453
	5 MCPA	11.973	11 977	-0 004	7373466	17 1000	11.86
	6 DICHLOROPROP	12.801	12.808	-0.007	8104219	0.17000	0.1620
	7 2,4-D	14.311	14.310	0.001	7574242	0.17000	0.1695
	8 PENTACHLOROPHENOL	15.536	15 539	-0.003	12202335	0.02128	0.02241
	9 2,4,5-TP(SILVEX)	16.755	16.759	-0 004	73984643	0.04210	0.03968
	10 2,4,5-T	17.886	17 886	0.000	55740496	0.04220	0.04147
	11 DINOSEB	18.064	18 065	-0.001	33519185	0.02540	0.02338
	12 2,4-DB	18.561	18.563	-0 002	27715931	0.16900	0.1467


Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A80106.D
Date : 10-AUG-2000 11:46
Client ID:
Sample Info: MHherb,5100.b
Column phase: DB608
Instrument: gc1.i
Operator: 01797
Column diameter: 0.53
Y (x10^7)
Min
-DALAPON
-DCAA
-MCPP
-DICAMBA
-MCPA
-DICHLOROPROP
-2,4-D
-PENTACHLOROPHENOL
-2,4,5-TP(SILVEX)
-2,4,5-T
-DINOSEB
-2,4-DB
\\QPITPA02\D\chem\gc1.i\5100.b\A-A80106.D

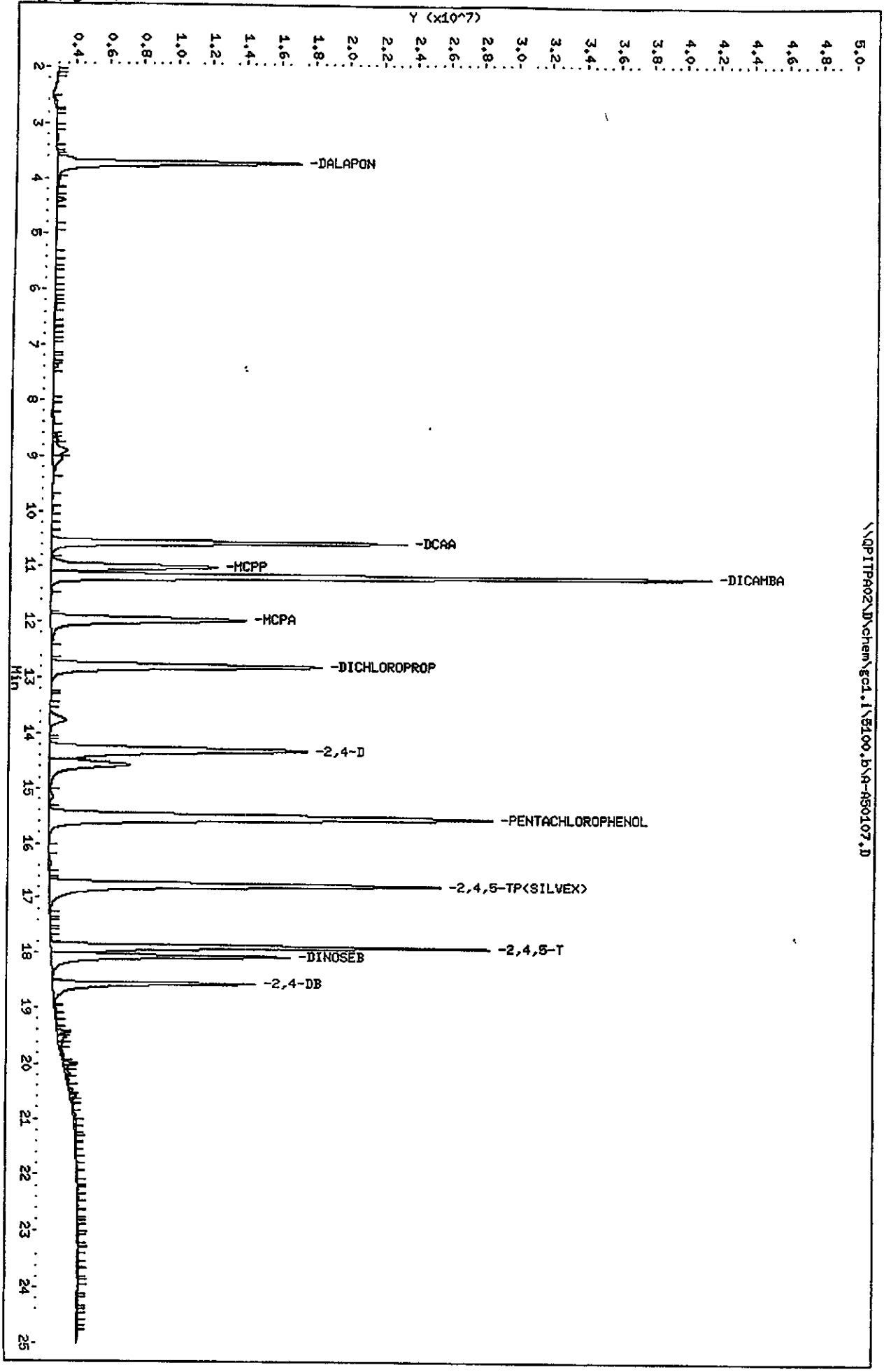
Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50107.D
Report Date: 10-Aug-2000 16:28

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50107.D
Lab Smp Id: Hherb
Inj Date : 10-AUG-2000 12:15
Operator : 01797 Inst ID: gc1.i
Smp Info : Hherb,5100.b
Misc Info : 190-94-5
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 10-Aug-2000 16:28 eppingerd Quant Type: ESTD
Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC086

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 DALAPON	3.731	3 730	0.001	14287579	0.17600	0.1600
$	2 DCAA	10.572	10.575	-0.003	93627115	0.34000	0.2905
	3 MCPP	11.014	11.018	-0.004	9708832	34.1000	19.40
	4 DICAMBA	11 187	11.188	-0.001	38509994	0.17000	0.1673
	5 MCPA	11.977	11.977	0.000	11361648	34.0000	20 14
	6 DICHLOROPROP	12.800	12.808	-0.008	15713510	0.33900	0.3187
	7 2,4-D	14.310	14.310	0.000	14949335	0.34000	0.3356
	8 PENTACHLOROPHENOL	15.535	15.539	-0.004	25835438	0.04255	0.04638
	9 2,4,5-TP(SILVEX)	16.758	16.759	-0.001	147347273	0.08400	0 07998
	10 2,4,5-T	17.889	17.886	0.003	112701183	0.08440	0.08396
	11 DINOSEB	18.062	18.065	-0.003	66830155	0.05080	0 04739
	12 2,4-DB	18.562	18.563	-0.001	54096933	0.33800	0.2953

670 432


Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50107.D
Date : 10-AUG-2000 12:15
Client ID:
Sample Info: MHerb,5100.b
Column phase: DB608
Instrument: gc1.i
Operator: 01797
Column diameter: 0.53
Y (x10^7)
Min
-DALAPON
-DCAA
-MCPP
-DICAMBA
-MCPA
-DICHLOROPROP
-2,4-D
-PENTACHLOROPHENOL
-2,4,5-TP(SILVEX)
-2,4,5-T
-DINOSEB
-2,4-DB
\\QPITPA02\D\chem\gc1.i\5100.b\A-A50107.D

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50292.D
Lab Smp Id: MHERB
Inj Date : 22-AUG-2000 12:35
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,5100.b
Misc Info : 190-94-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 22-Aug-2000 13:18 colussyj Quant Type: ESTD
Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC085

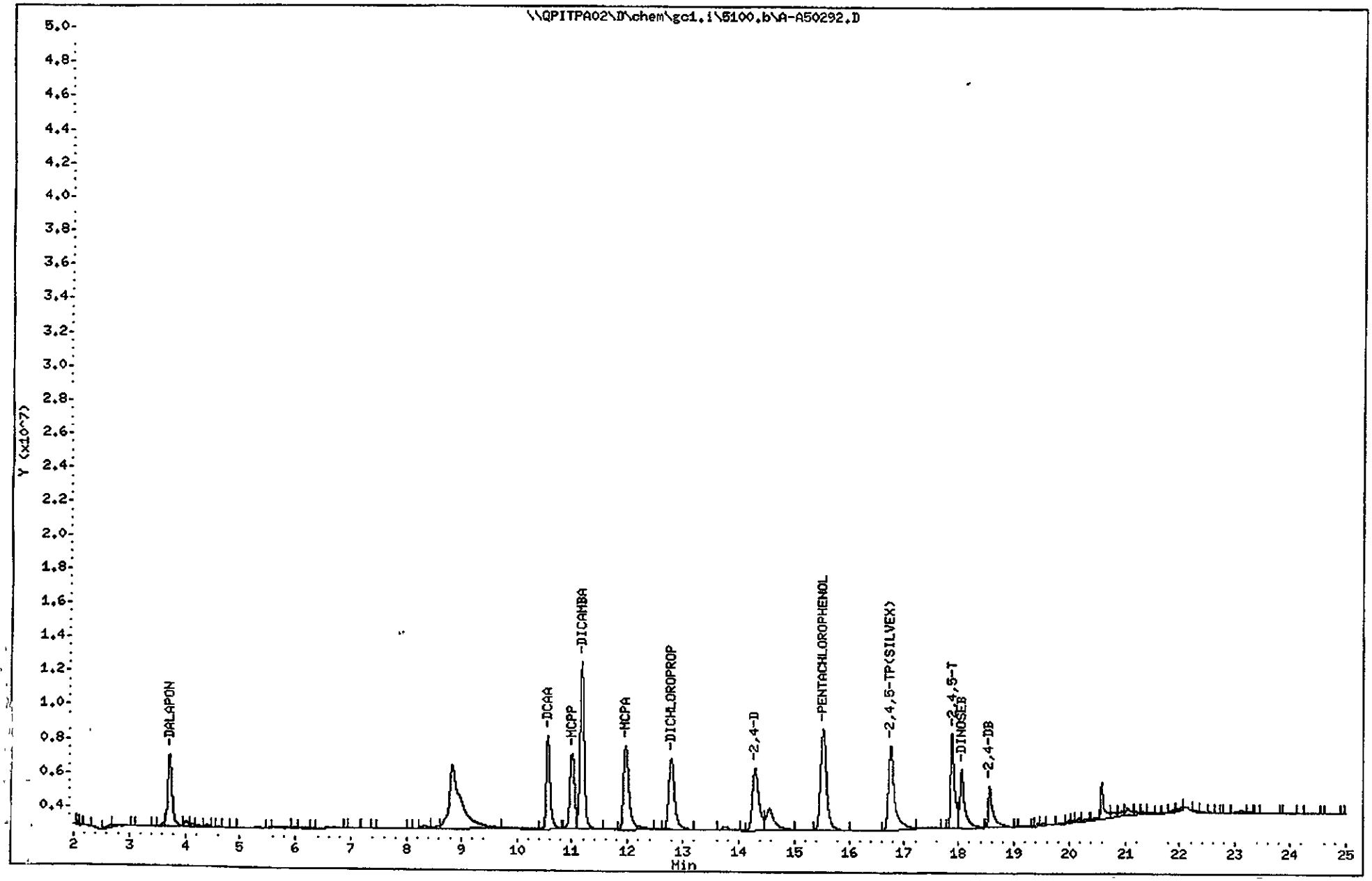
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 DALAPON	3.731	3.732	-0.001	4186522	0.04390	0.04689
$	2 DCAA	10.571	10.572	-0.001	27622049	0.08510	0.08571
	3 MCPP	11.009	11.013	-0.004	4360335	8.52000	8.711
	4 DICAMBA	11.183	11.182	0.001	9753837	0.04250	0.04238
	5 MCPA	11.968	11.970	-0.002	4855796	8.56000	8.609
	6 DICHLOROPROP	12.799	12.801	-0.002	4144054	0.08480	0.08406
	7 2,4-D	14.306	14.306	0.000	3618262	0.08510	0.08122
	8 PENTACHLOROPHENOL	15.525	15.528	-0.003	5884230	0.01064	0.01056
	9 2,4,5-TP(SILVEX)	16.757	16.763	-0.006	37980025	0.02110	0.02062
	10 2,4,5-T	17.886	17.886	0.000	26440635	0.02110	0.01970
	11 DINOSEB	18.065	18.064	0 001	20749502	0.01270	0.01471
	12 2,4-DB	18.561	18.563	-0.002	13688325	0.08450	0.07472

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50292.D
Date : 22-AUG-2000 12:35
Client ID:
Sample Info: MHERB,5100,b

Instrument: gc1.i

Operator: 01797
Column diameter: 0.53

Column phase: DB608



670 434

4030

STL Pittsburgh

STL - Pittsburgh

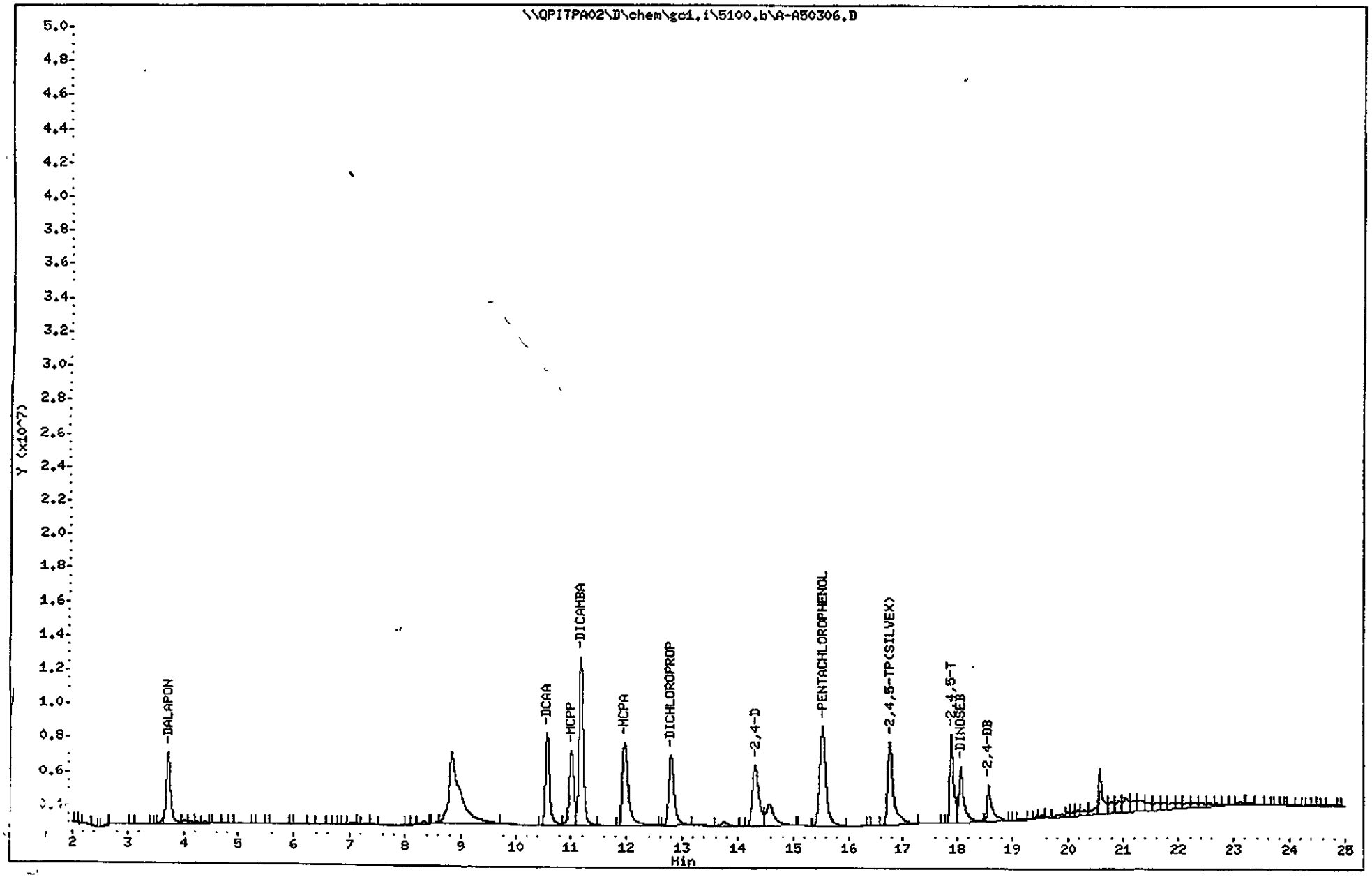
Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50306.D
Lab Smp Id: MHERB
Inj Date : 22-AUG-2000 20:12
Operator : 01797 Inst ID: gc1.i
Smp Info : MHERB,5100.b
Misc Info : 190-94-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 23-Aug-2000 08:11 colussyj Quant Type: ESTD
Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
Als bottle: 19 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC085

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 DALAPON	3.732	3.732	0.000	4218436	0.04390	0.04725
$	2 DCAA	10.574	10.572	0.002	27956723	0.08510	0.08675
	3 MCPP	11.013	11.013	0.000	4351107	8.52000	8.693
	4 DICAMBA	11.187	11.182	0.005	9783391	0.04250	0.04250
	5 MCPA	11.969	11.970	-0.001	4786715	8.56000	8.486
	6 DICHLOROPROP	12.802	12.801	0.001	4078940	0.08480	0.08273
	7 2,4-D	14.309	14.306	0.003	3533472	0.08510	0.07932
	8 PENTACHLOROPHENOL	15.534	15.528	0.006	5827201	0.01064	0.01046
	9 2,4,5-TP(SILVEX)	16.758	16.763	-0.005	38216405	0.02110	0.02074
	10 2,4,5-T	17.885	17.886	-0.001	25375069	0.02110	0.01890
	11 DINOSEB	18.064	18.064	0 000	19760344	0.01270	0.01401
	12 2,4-DB	18.568	18.563	0.005	12877394	0.08450	0.07030

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50306.D
Date : 22-AUG-2000 20:12
Client ID:
Sample Info: MHERB,5100.b

Instrument: gc1.i

Operator: 01797
Column phase: DB608
Column diameter: 0.53



670 436

4032

STL, Pittsburgh

HERBICIDE
QC DATA

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8151A
Herbicides (8151A)

Lab Sample ID:C0H210000 431

Sample WT/Vol: 100 / mL
Work Order: DJ6M3101
Dilution factor: 1
Moisture %:NA

Date Received: 08/16/00
Date Extracted:08/21/00
Date Analyzed: 08/22/00

QC Batch: 0234431

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

FORM I

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50304.D
Report Date: 23-Aug-2000 08:14

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50304.D
Lab Smp Id: DJ6M3101 Client Smp ID: BLK
Inj Date : 22-AUG-2000 19:15
Operator : 01797 Inst ID: gc1.i
Smp Info : DJ6M3101,5100.b
Misc Info : 160154BLK
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 23-Aug-2000 08:11 colussyj Quant Type: ESTD
Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
Als bottle: 17 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC085

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	1 DALAPON	Compound Not Detected					
$	2 DCAA	10.585	10 572	0.013	13270866	0.04118	0 08236(aR)
	3 MCPP	Compound Not Detected.					
	4 DICAMBA	Compound Not Detected.					
	5 MCPA	Compound Not Detected.					
	6 DICHLOROPROP	Compound Not Detected.					
	7 2,4-D	Compound Not Detected.					
	8 PENTACHLOROPHENOL	Compound Not Detected.					
	9 2,4,5-TP(SILVEX)	Compound Not Detected					
	10 2,4,5-T	Compound Not Detected.					
	11 DINOSEB	Compound Not Detected.					
	12 2,4-DB	18.523	18.563	-0 040	516666	0.00282	0.005641(a)

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50304.D
Report Date: 23-Aug-2000 08:14

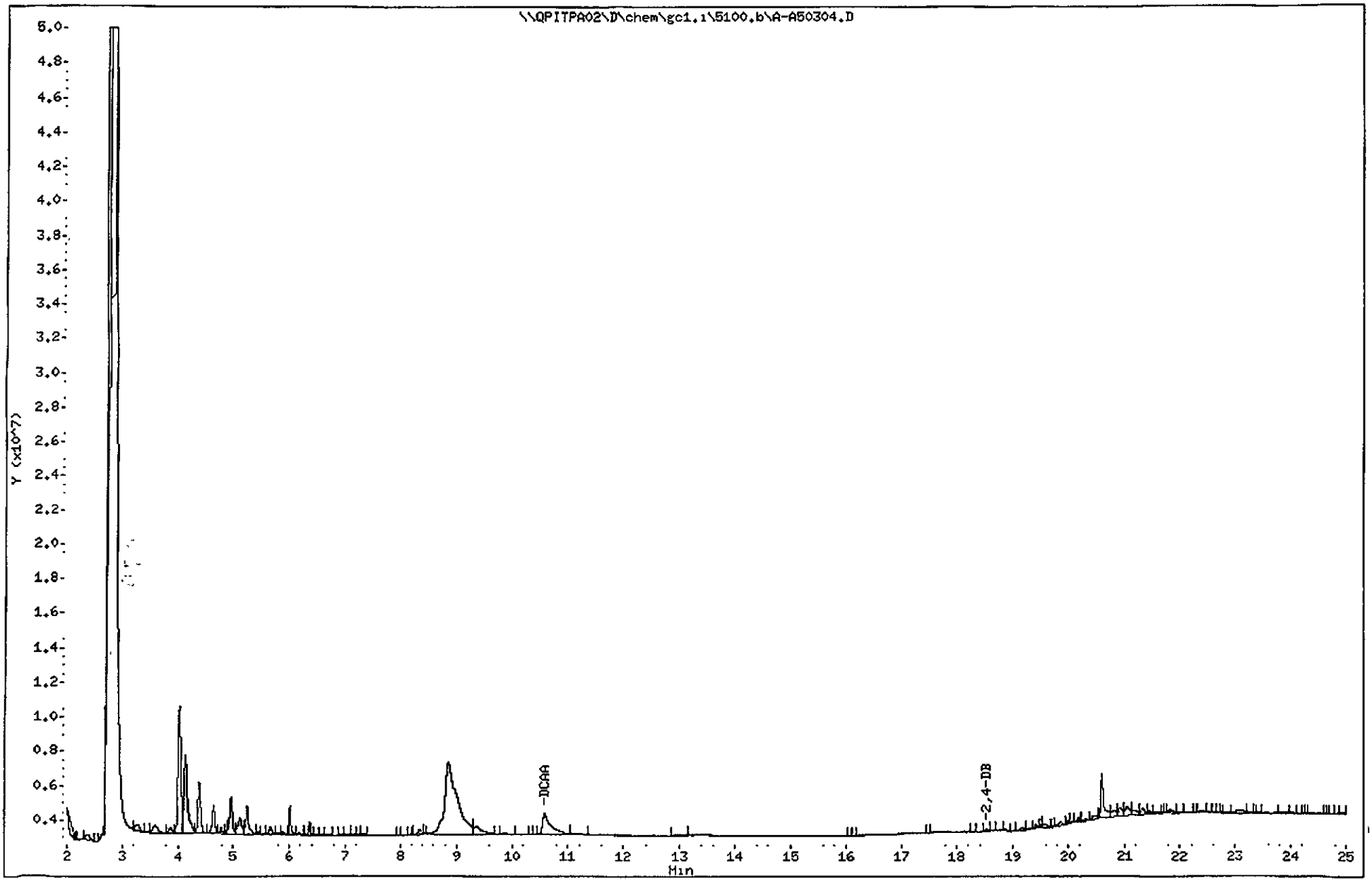
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

670_441

Data File: \\QPITPA02\D\chem\gc1.1\5100.b\A-A50304.D
Date : 22-AUG-2000 19:15
Client ID: BLK
Sample Info: DJ6M3101,5100.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc1.1
Operator: 01797
Column diameter: 0.53



4037

STL Pittsburgh

670 442

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8151A
Herbicides (8151A)

Lab Sample ID:C0H210000 431

Sample WT/Vol: 100 / mL
Work Order: DJ6M3102
Dilution factor: 1
Moisture %:NA

Date Received: 08/16/00
Date Extracted:08/21/00
Date Analyzed: 08/22/00

QC Batch: 0234431

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.129	
93-72-1	2,4,5-TP (Silvex)	0.0337	

FORM I

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50303.D
Report Date: 23-Aug-2000 08:14

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50303.D
Lab Smp Id: DJ6M3102 Client Smp ID: LCS
Inj Date : 22-AUG-2000 18:46
Operator : 01797 Inst ID: gc1.i
Smp Info : DJ6M3102,5100.b
Misc Info : 160154LCS
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 23-Aug-2000 08:11 colussyj Quant Type: ESTD
Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC085

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	1 DALAPON	3.731	3.732	-0.001	2950339	0.03305	0.06610(aR)
$	2 DCAA	10.576	10.572	0 004	15041476	0.04667	0.09334(aR)
	3 MCPP	11.011	11.013	-0 002	3967489	7.92647	15 85
	4 DICAMBA	11.187	11.182	0.005	8083754	0.03512	0.07024(a)
	5 MCPA	11.975	11.970	0.005	4376856	7.75953	15.52
	6 DICHLOROPROP	12.806	12.801	0 005	3423619	0.06944	0.1389(a)
	7 2,4-D	14.309	14.306	0.003	2877826	0.06460	0.1292(aR)
	8 PENTACHLOROPHENOL	15 530	15 528	0.002	5103503	0.00916	0 01832(a)
	9 2,4,5-TP(SILVEX)	16.761	16.763	-0.002	31008771	0.01683	0 03366(aR)
	10 2,4,5-T	17.888	17.886	0 002	21570738	0.01607	0.03214(aR)
	11 DINOSEB	18 059	18.064	-0.005	9670612	0.00686	0.01372(a)
	12 2,4-DB	18.563	18 563	0.000	11465485	0.06259	0.1252(a)

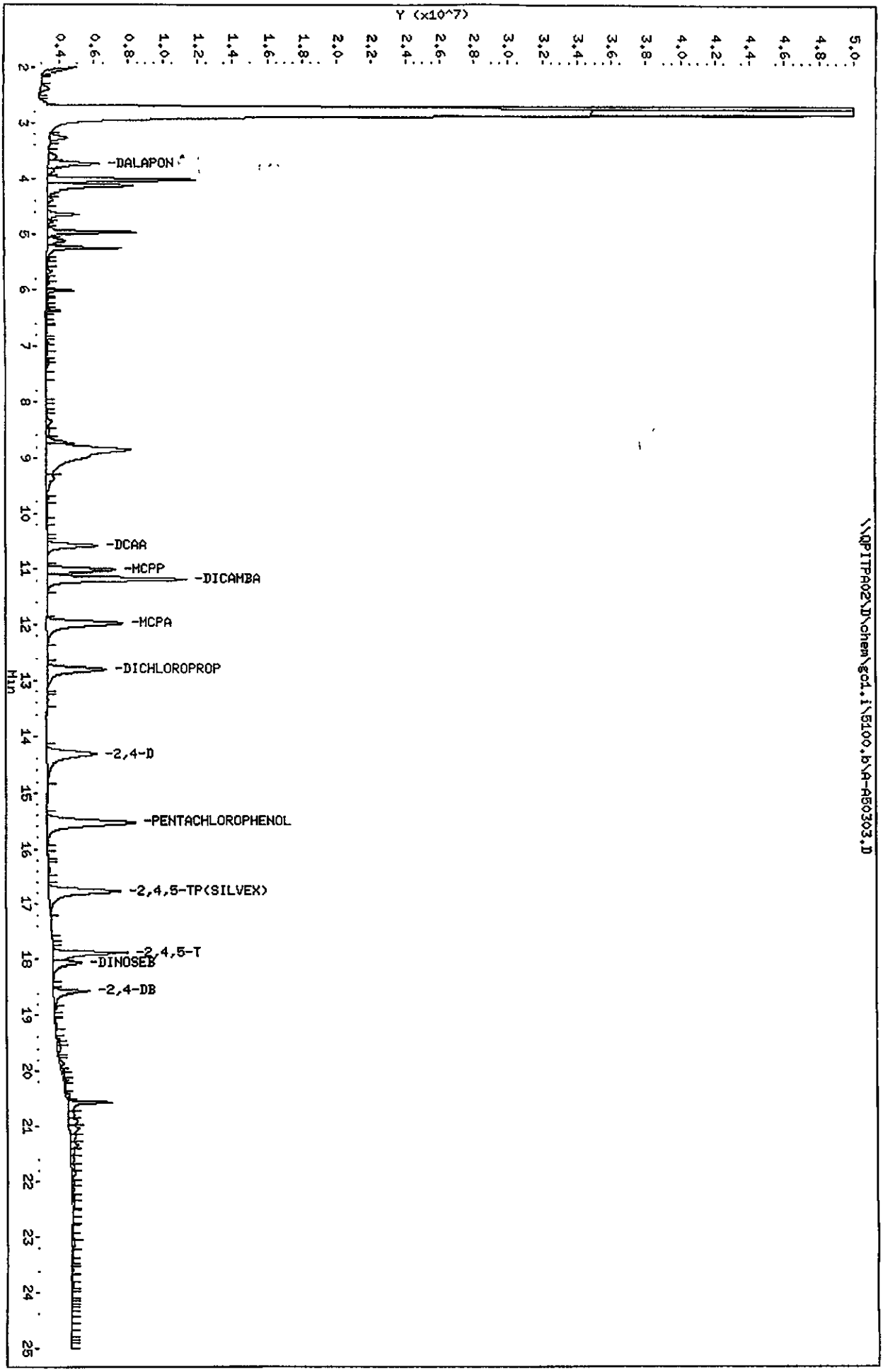
670-444
Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50303.D
Report Date: 23-Aug-2000 08:14

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: \\QPITPA02\D\chem\gc1.i\5100,b\A-A50303.D
Date : 22-AUG-2000 18:46
Client ID: LCS
Sample Info: DJ6M3102,5100,b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



HERBICIDE
MISCELLANEOUS

STL Pittsburgh

TCLP (Method 1311)

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571

Quanterra Environmental Services

QUA-4181

Filter Lot# 8320701W

By	Date	Checked by	Date	pH Instrument	Probe	Serial Number	Log Book Number
Jameel Murphy	8-17-00	Evan M Faust	8-18-00	Accumet AR25	SNC05960	085	96-MT-52

Project Number	Lot Number	Client Codes	Balance	Solution Number 1 - Log Book Number	Solution Number 2 - Log Book Number
	COH160184, COH170113		CG48117	004497-12	

Fluid Determination

Sample ID	Wgt/Vol	Init. pH	Final pH	Extract Fluid #1, or #2	Conc.: HNO_3 to Acidity (for Metals)
DHX4D	5.00g / 96.5ml	5.49	1.91	Soln #1	6ml
DHX47		5.51	1.96		
DHX4A		5.51	1.67		
DJ00L		5.75	1.79		

J.M 8-17-00

J.M 8-17-00

TCLP Extraction

	Sample ID	Wgt (g) Wet/Dry	Fluid Vol.	Glass	Final pH Aft. Tumbling
1.	PB-TCLP	—	2000ml		4.93
2.	DHX4D	100.0g			5.05
3.					5.08
4	DHX47				5.09
5.	DHX4A				5.04
6.	DJ00L				5.53
7.					
8.					
9.					
10.					
11					
12.					
13.					

J.M 8-17-00

Extract(s) (Record line number from above)

All above

Extract(s) Received

Date	Time	Analyst	Location
8-18-00	11:00	Jameel Murphy	Metals Prep

Extract(s) Relinquished

Date	Time	Analyst	Location
8-18-00	11:30	[signature]	17E

* = Sample determined to have free-liquid, % solid determination was performed

<5 = Extraction Fluid No. 1 5.7 mL Glacial Acetic Acid dil 500 mL + 64.3 mL of 1N Na OH dil to 1L (pH 4.93 ± 0.05)

>5 = Extraction Fluid No. 2 5.7 mL Glacial Acetic Acid dil to 1L (pH 2.88 ± 0.05)

Room temp° = 21°

pH E.F. = 4.98

Date/Time On	Date/Time Off	Agitation Apparatus RPMs.
8-17-00 1:00	8-18-00	30 ± 2 J.M - 8/17/00

pH Calibration	(4.0)	(7.0)	(10.0)
Date 8-17-00	4.01	7.02	10.05
Date 8-18-00	4.00	7.02	10.08

Comments

447 029

4043

STL Pittsburgh

Separatory Funnel Extraction Worksheet

(TCLP)

B#023443I

HEXANE T03268

STL Committed To Your Success

BAKER

STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8380

670 448

Date Extraction Began	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	Clean up Method
8-21-00	8-22-00	Nesb (8151A)	3510C	MeCl2/Ether	T19271 / B48l6	Baker	B-H / NA

	Lot Number	Sample ID	Client ID	pH	Sample Volume (mL)	Final Volume (mL)	Surrogate Number	Surrogate Volume (mL)	Matrix Spike No.	Matrix Spike Volume (mL)	Cleanup Date
1.	POH160154	BBK	NA	5/2/2	100	10.0	~~190-99-11~~ CBY 8-21-00	1.0	~~190-94~~ NA ~~190-98-10~~ CBY 8-21-00 NA	NA 1.0 NA	NA
2.		LCS		5							
3.		001 MS		5							
4.		001 MSD		5							
5.		001		5							
6.		002		5							
7.		003		5							
8.	POH170153	001		7							
9.											
10.											
11.											
12.											
13.											
14.											
15.											
16.											
17.											
18.											
19.											
20.											
21.											
22.											
23.											
24.											
Analyst		PY	PY	PY	PY	JM	PY	PY	PY	PY	PY

P. Yurshinski 8-21-00

Extract(s) (Record line number from above)	Extract(s) Received Date	Time	Analyst	Location	Extract(s) Relinquished Date	Time	Analyst	Location
All Above	8-21-00	2030	P. Yurshinski	Org Prep	8-21-00	2039	P. Yurshinski	Ref 12
ALL ABOVE	8-22-00	0600	James Miller	REF 12 - EXT -	8-22-00	0930	James Miller	RF-1-GC
ALL ABOVE	8-22-00	1100	W. Mya	RF1 GC	8-22-00	1400	W. Mya	RF1 GC

Sodium Sulfate Mfg. Baker | Lot Number T23625 | Reviewed By James Miller | Date 8-22-00

Sequence: C:\HPCHEM\2\SEQUENCE\5100.S

670 449

Created: DE 8-10-00

Sequence Table (Front Injector):

A

Vial Information Part:

Line	Vial	Vial Information
1	1	8151 HERB ANALYSIS
2	2	190-94-1 103
3	3	190-94-2
4	4	190-94-3 105
5	5	190-94-4
6	6	190-94-5
7	7	~~040131001~~
8	8	~~040131001S~~
9	9	~~040131001D~~ 110
10	10	~~040131002~~
11	11	040131003
12	12	040131004
13	13	040131005
14	14	~~040131006~~ 115
15	15	040131007
16	16	040131BLK
17	17	~~040131LCS~~
18	18	~~260154LCS~~
19	19	260154006 120
20	20	270298001
21	21	270298002
22	22	270298003
23	23	270298004
24	24	270298005 125
25	25	270298006

Sequence: C:\HPCHEM\2\SEQUENCE\5100.S

670 450

Line	Vial	Vial Information
26	26	270298007
27	27	190-94-3
28	28	280117001 129
29	29	270269001 X5
30	30	280199001 X10
31	31	250149002 X2
32	32	270270002 X2
33	33	270278002 X2
34	34	280173002 X2
35	35	250149BLK
36	36	250149LCS
37	37	250149LCD
38	38	190-94-3 139
39	1	RINSE

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE	HERB	1	Sample		
2	2	Lherb,5100.b	HERB	1	Sample		
3	3	MLherb,5100.b	HERB	1	Sample		
4	4	Mherb,5100.b	HERB	1	Sample		
5	5	MHherb,5100.b	HERB	1	Sample		
6	6	Hherb,5100.b	HERB	1	Sample		
7	7	DHD4P102,5100.b	HERB	1	Sample		
8	8	DHD4P103,5100.b	HERB	1	Sample		
9	9	DHD4P104,5100.b	HERB	1	Sample		
10	10	DHD4V102,5100.b	HERB	1	Sample		
11	11	DHD4W103,5100.b	HERB	1	Sample		
12	12	DHD50103,5100.b	HERB	1	Sample		
13	13	DHD51103,5100.b	HERB	1	Sample		
14	14	DHD53103,5100.b	HERB	1	Sample		
15	15	DHD56103,5100.b	HERB	1	Sample		
16	16	DHGWL101,5100.b	HERB	1	Sample		
17	17	DHGWL102,5100.b	HERB	1	Sample		
18	18	DH6JA102,5100.b	HERB	1	Sample		
19	19	DGTC2110,5100.b	HERB	1	Sample		
20	20	DGXK5110,5100.b	HERB	1	Sample		
21	21	DGXKA110,5100.b	HERB	1	Sample		
22	22	DGXKC110,5100.b	HERB	1	Sample		
23	23	DGXKM110,5100.b	HERB	1	Sample		

670-451

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
24	24	DGXKP110,5100.b	HERB	1	Sample		
25	25	DGXKQ110,5100.b	HERB	1	Sample		
26	26	DGXKR110,5100.b	HERB	1	Sample		
27	27	Mherb,5100.b	HERB	1	Sample		
28	28	DH0JA110,5100.b	HERB	1	Sample		
29	29	DGXDR11D,5100.b	HERB	1	Sample		
30	30	DH16L11D,5100.b	HERB	1	Sample		
31	31	DGQ6710U,5100.b	HERB	1	Sample		
32	32	DGXED10U,5100.b	HERB	1	Sample		
33	33	DGXFC10U,5100.b	HERB	1	Sample		
34	34	DH12K10U,5100.b	HERB	1	Sample		
35	35	DH6HW101,5100.b	HERB	1	Sample		
36	36	DH6HW102,5100.b	HERB	1	Sample		
37	37	DH6HW103,5100.b	HERB	1	Sample		
38	38	Mherb,5100.b	HERB	1	Sample		
39	1	HEXANE	HERB	1	Sample		

Sequence Table (Back Injector):

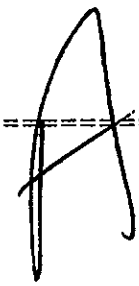
Vial Information Part:

Line	Vial	Vial Information
1	100	8151 HERB ANALYSIS
2	1	RINSE
3	2	190-94-1 108
4	3	190-94-2
5	4	190-94-3
6	5	190-94-4
7	6	190-94-5
8	7	040131001
9	8	040131001S
10	9	040131001D
11	10	040131002
12	11	040131003
13	12	040131004
14	13	040131005
15	14	040131006
16	15	040131007

DE 8-10-00

Sequence Table (Front Injector):

Vial Information Part:



Line	Vial	Vial Information
1	100	8151/515 HERB ANALYSIS
2	1	8151/515 HERB ANALYSIS
3	2	190-94-3 289
4	3	09013303 500XDL 290
5	4	09013305 200XDL 291
6	5	190-94-3 292
7	6	18011901 293
8	7	180119LCS 294
9	8	180119LCSD 295
10	9	180119BLK 296 ✓
11	10	16015401 297 ✓
12	11	16015402 298 ✓
13	12	16015403 299 ✓
14	13	17011301 300 ✓
15	14	16015401MS 301 ✓
16	15	16015401MSD ✓ 302 ✓
17	16	160154LCS 303 ✓
18	17	160154BLK 304 ✓
19	18	~~16015402~~ ~~305~~
20	19	190-94-3 306

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	100	HEXANE	HERB	1	Sample		
2	1	HEXANE	HERB	1	Sample		
3	2	MHERB,5100.b	HERB	1	Sample		
4	3	DHK11101,5100.b	HERB	1	Sample		
5	4	DHK1D101,5100.b	HERB	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
6	5	MHERB,5100.b	HERB	1	Sample		
7	6	DJ371102,5100.b	HERB	1	Sample		
8	7	DJ5JP102,5100.b	HERB	1	Sample		
9	8	DJ5JP103,5100.b	HERB	1	Sample		
10	9	DJ5JP101,5100.b	HERB	1	Sample		
11	10	DHX40105,5100.b	HERB	1	Sample		
12	11	DHX47105,5100.b	HERB	1	Sample		
13	12	DHX4A105,5100.b	HERB	1	Sample		
14	13	DJ0QL105,5100.b	HERB	1	Sample		
15	14	DHX40117,5100.b	HERB	1	Sample		
16	15	DHX40118,5100.b	HERB	1	Sample		
17	16	DJ6M3102,5100.b	HERB	1	Sample		
18	17	DJ6M3101,5100.b	HERB	1	Sample		
19	18	DHX47105,5100.b	HERB	1	Sample		
20	19	MHERB,5100.b	HERB	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	1	8151/515 HERB ANALYSIS
2	2	190-94-3
3	3	09013303 500XDL
4	4	09013305 200XDL
5	5	190-94-3

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE	HERBA	1	Sample		
2	2	MHERB,5100A.b	HERBA	1	Sample		
3	3	DHK11101,5100A.b	HERBA	1	Sample		
4	4	DHK1D101,5100A.b	HERBA	1	Sample		
5	5	MHERB,5100A.b	HERBA	1	Sample		

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PSRC24 8/21/00 13:38:03 MT SAMPLE CUSTODIAN REMOVAL REQUEST PAGE 001

REQUESTED BY: YUSHINSC

METHOD: QS Herbicides (8151A)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
1A,B CLP1	DHX40-1-05	___ ___ ___	260755	399411	A-64-QS	COH160154	001		SOLID	0	3 1
1A,B CLP1	DHX47-1-05	___ ___ ___	260756	399411	A-64-QS	COH160154	002		SOLID	0	3 1
1A,B CLP1	DHX4A-1-05	___ ___ ___	260757	399411	A-64-QS	COH160154	003		SOLID	0	3 1
1E CLP1	DJ0QL-1-05	___ ___ ___	260758	399411	A-64-QS	COH170113	001		SOLID	0	3 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
J. Yushinski	J. Yushinski	8-21-00 1535
J. Yushinski	J. Yushinski	8-21-00 1930

***** END OF REPORT *****

METALS DATA

670 456

STL-Pittsburgh

Cover Page - Inorganic Analysis Data Package

Client ID	Lab Sample ID:
DF/S1/0228/GRAB/006	DJ0QL
DF/S1/0228/GRAB/006D	DJ0QLD
DF/S1/0228/GRAB/006S	DJ0QLS

Comments: UXB, DUNN FIELD
C0H170113
6010B

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

Version 4.10.2

Cover Page Equivalent

REVIEWED BY: MTW
DATE: 8-23-00

METALS
RESULTS

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DJ0QL **Client ID:** DF/S1/0228/GRAB/006

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 0231154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 19.77

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	1.3	8.8		1	ICPST	8/21/00	14:32

Comments: Lot#: C0H170113 Sample#: 1

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPST

Units: ug/L

Chart Number: T00821B.ARC

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: 0057-022-8

Element	WL/ Mass	True Conc	ICV3-1 8/21/00 11:59 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	250.0	260.13	**104.1**								

Version 4.10.2

Form 2A Equivalent

STL-Pittsburgh

670 460

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPST **Units:** ug/L

Chart Number: T00821B.ARC **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** 0057-023-9

Element	WL/ Mass	True Conc	CCV3-1 8/21/00 12:48 PM Found	% Rec	CCV3-2 8/21/00 1:38 PM Found	% Rec	CCV3-3 8/21/00 2:16 PM Found	% Rec	CCV3-4 8/21/00 2:49 PM Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	514.01	102.8	515.67	103.1	510.53	102.1	521.42	104.3		

Version 4.10.2

Form 2A Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPST **Units:** ug/L

Chart Number: T00821B.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB1 8/21/00 12:03 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	10	2.6	U								

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

670 462

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST **Units:** ug/L

Chart Number: T00821B.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB1 8/21/00 12:53 PM Found	Q	CCB2 8/21/00 1:42 PM Found	Q	CCB3 8/21/00 2:20 PM Found	Q	CCB4 8/21/00 2:53 PM Found	Q	Found	Q
Arsenic	189.042	10	2.6	U	2.6	U	2.6	U	2.6	U		

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DJ361B

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 0231154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.26	1.0	0.26	U	1	ICPST	8/21/00	14:24

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST **Units:** ug/L

Chart Number: T00821B.ARC **Acceptable Range:** 0% - 0%

Standard Source: Inorganic Ventures **Standard ID:** 0057-011-1

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 8/21/00 12:07 PM Found	Found	Found	Found	Found
Arsenic	189.042	10		2				

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 4 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPST **Units:** ug/L

Chart Number: T00821B.ARC **Acceptable Range:** 80% - 120%

Standard Source: Inorganic Ventures **Standard ID:** 0014-197-7

Element	WL/ Mass	True Conc	ICSAB 8/21/00 12:11 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	1000	1049.2	**104.9**								

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL
N Spike recovery failed

Form 4 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DJ0QLS

Original Sample ID: DJ0QL **Client ID:** DF/S1/0228/GRAB/006S

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 0231154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 19.77

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	8.8		232		249.28	89.5	1	1	ICPST	8/21/00	14:32	8/21/00	14:41

Comments:

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DJ0QLD

Original Sample ID: DJ0QL **Client ID:** DF/S1/0228/GRAB/006D

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 0231154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 19.77

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Arsenic	189.0	8.8		236		249.28	91.1	1	1	ICPST	8/21/00	14:32	8/21/00	14:45

Comments:

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

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STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DJ0QLD

Matrix Spike Sample ID: DJ0QLS **Client ID:** DF/S1/0228/GRAB/006D

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 0231154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 19.77

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Arsenic	189.042	232		236		1.8 %	1	1	ICPST	8/21/00	14:41	8/21/00	14:45

Comments:

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DJ361C

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 0231154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	200	205	102.3		80-120	1	ICPST	8/21/00	14:28

Comments:

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DJ0QLP

Original Sample ID: DJ0QL **Client ID:** DF/S1/0228/GRAB/006

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/18/00 **Prep Batch:** 023154

Weight: 1.00 **Volume:** 100 **Percent Moisture:** 19.77

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	8.8		9.2			1	5	ICPST	8/21/00	14:32	8/21/00	14:36

Comments:

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL
E Serial dilution percent difference not within limits

Form 9 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST **Units:** ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Arsenic	189.04	10	2.6	4/1/00

STL-Pittsburgh

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Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICPST **Date of IEC's:** 8/1/00

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Pb(0.00055), Se(0.00001), Tl(-0.00002)
Aluminum	308.215	Pb(-0.000197), Se(0.000011)
Chromium	267.716	Sb(0.007006)
Chromium	267.716	As(-0.002615), Sb(0.012173)
Cobalt	228.616	Se(-0.000381)
Cobalt	228.616	Cd(-0.00009), Fe(0.089705), Ni(-0.00066), Pb(0.000077), Se(0.000351), Tl(0.002179)
Iron	271.441	Cd(0.000088), Pb(0.000086), Sb(0.000019), Se(-0.000016), Tl(-0.000034), V(-0.000349), Zn(0.000127)
Iron	271.441	Pb(0.000047), Sb(0.000021), Se(-0.00029)
Magnesium	279.078	Fe(-0.000306)
Manganese	257.61	Se(0.000579), Tl(-0.004577)
Molybdenum	202.03	Pb(-0.00087), Sb(-0.010184)
Molybdenum	202.03	Al(0.011136), As(-0.000847), Cr(-0.000312), Pb(-0.000331), Sb(-0.003352)
Nickel	231.604	Pb(0.000274), Sb(-0.000886), Zn(0.004694)
Nickel	231.604	Pb(0.000086)
Vanadium	292.402	Al(0.019591), Be(-0.00787), Cr(-0.000183), Fe(0.007812), Sb(-0.008005), Se(0.000216), Tl(0.001386)
Vanadium	292.402	Pb(-0.000428), Se(0.000099)

STL-Pittsburgh

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPST **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Arsenic	189.04	10000	6/15/00

670 474

Metals Data Reporting Form

Preparation Log

Preparation Batch: 0231154 **Instrument:** ICP **Matrix:** Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DJ361B	8/18/00	1.00	100	NA
DJ361C	8/18/00	1.00	100	NA
DJ0QL	8/18/00	1.00	100	19.77
DJ0QLD	8/18/00	1.00	100	19.77
DJ0QLS	8/18/00	1.00	100	19.77

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST **Chart Number:** T00821B.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
STD1		8/21/00	11:47
STD6		8/21/00	11:51
STD7		8/21/00	11:55
ICV3-1		8/21/00	11:59
ICB1		8/21/00	12:03
ICSA		8/21/00	12:07
ICSAB		8/21/00	12:11
ZZZZZZ		8/21/00	12:15
ZZZZZZ		8/21/00	12:19
ZZZZZZ		8/21/00	12:24
ZZZZZZ		8/21/00	12:28
ZZZZZZ		8/21/00	12:32
ZZZZZZ		8/21/00	12:36
ZZZZZZ		8/21/00	12:40
ZZZZZZ		8/21/00	12:44
CCV3-1		8/21/00	12:48
CCB1		8/21/00	12:53
ZZZZZZ		8/21/00	12:57
ZZZZZZ		8/21/00	13:01
ZZZZZZ		8/21/00	13:05
ZZZZZZ		8/21/00	13:09
ZZZZZZ		8/21/00	13:13
ZZZZZZ		8/21/00	13:18
ZZZZZZ		8/21/00	13:22
ZZZZZZ		8/21/00	13:26
ZZZZZZ		8/21/00	13:30
ZZZZZZ		8/21/00	13:34
CCV3-2		8/21/00	13:38
CCB2		8/21/00	13:42
ZZZZZZ		8/21/00	13:47
ZZZZZZ		8/21/00	13:51
ZZZZZZ		8/21/00	13:55
ZZZZZZ		8/21/00	13:59
ZZZZZZ		8/21/00	14:03
ZZZZZZ		8/21/00	14:07
ZZZZZZ		8/21/00	14:12
CCV3-3		8/21/00	14:16
CCB3		8/21/00	14:20
DJ361B		8/21/00	14:24

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST **Chart Number:** T00821B.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
DJ361C		8/21/00	14:28
DJ0QL	DF/S1/0228/GRAB/006	8/21/00	14:32
DJ0QLP	DF/S1/0228/GRAB/006	8/21/00	14:36
DJ0QLS	DF/S1/0228/GRAB/006S	8/21/00	14:41
DJ0QLD	DF/S1/0228/GRAB/006D	8/21/00	14:45
CCV3-4		8/21/00	14:49
CCB4		8/21/00	14:53
ZZZZZZ		8/21/00	14:57
ZZZZZZ		8/21/00	15:01
ZZZZZZ		8/21/00	15:06
ZZZZZZ		8/21/00	15:10
ZZZZZZ		8/21/00	15:14
ZZZZZZ		8/21/00	15:18
ZZZZZZ		8/21/00	15:22
ZZZZZZ		8/21/00	15:26
ZZZZZZ		8/21/00	15:31
ZZZZZZ		8/21/00	15:44
ZZZZZZ		8/21/00	15:48
ZZZZZZ		8/21/00	15:53
ZZZZZZ		8/21/00	15:57
ZZZZZZ		8/21/00	16:01
ZZZZZZ		8/21/00	16:05
ZZZZZZ		8/21/00	16:09
ZZZZZZ		8/21/00	16:13
ZZZZZZ		8/21/00	16:18
ZZZZZZ		8/21/00	16:22
ZZZZZZ		8/21/00	16:26
ZZZZZZ		8/21/00	16:30
ZZZZZZ		8/21/00	16:34
ZZZZZZ		8/21/00	16:38
ZZZZZZ		8/21/00	16:43
ZZZZZZ		8/21/00	16:47
ZZZZZZ		8/21/00	16:51
ZZZZZZ		8/21/00	16:55
ZZZZZZ		8/21/00	16:59
ZZZZZZ		8/21/00	17:03
ZZZZZZ		8/21/00	17:08
ZZZZZZ		8/21/00	17:12
ZZZZZZ		8/21/00	17:16

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPST **Chart Number:** T00821B.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		8/21/00	17:20
ZZZZZZ		8/21/00	17:24
ZZZZZZ		8/21/00	17:28
ZZZZZZ		8/21/00	17:33
ZZZZZZ		8/21/00	17:37
ZZZZZZ		8/21/00	17:41
ZZZZZZ		8/21/00	17:45
ZZZZZZ		8/21/00	17:49
ZZZZZZ		8/21/00	17:53
ZZZZZZ		8/21/00	17:58
ZZZZZZ		8/21/00	18:02
ZZZZZZ		8/21/00	18:06
ZZZZZZ		8/21/00	18:10
ZZZZZZ		8/21/00	18:14
ZZZZZZ		8/21/00	18:18
ZZZZZZ		8/21/00	18:23
ZZZZZZ		8/21/00	18:27
ZZZZZZ		8/21/00	18:31

METALS
RAW DATA

COH170113

Analysis Report 60CB Averages 08/22/00 06:55:29 AM

Reanalyzed 8/22/00

#	Sample Name	AS
1	STD1	-.0108
2	STD6	5.92857
3	STD7	
4	ICV3-1 0057-022-8	.26013
5	ICB1	-.00043
6	ICSA 0057-011-1	.00148
7	ICSAB 0014-197-7	1.0492
8	DJ5J3B	-.00122
9	DJ5J3C	2.0973
10	DGNQP	.02910
11	DGNQT	.00774
12	DGNQW	.01191
13	DGNQX	.00695
14	DGNR0	.00429
15	DGNR2	.02477
16	CCV3-1 0057-023-9	.51401
17	CCB1	-.00053
18	DGR3R	.07290
19	DGR3T	.07241
20	DGTLP	.05730
21	DGTLW	.06246
22	DGTM3	.06544
23	DGTM5	.05838
24	DGTMA	.07189
25	DGTMF	.07775
26	DGTMN	.05827
27	DGTN0	.09051
28	CCV3-2	.51567
29	CCB2	.00000
30	DGXLL	.05789
31	DGXLN	.07578
32	DGXLNP5	.01700
33	DGXLNS	1.9153
34	DGXLND	1.9074
35	DGXLQ	.07509
36	DGXLR	.07584
37	CCV3-3	.51053
38	CCB3	.00018
39	DJ361B	.00019
40	DJ361C	2.0451
41	DJ0QL	.07050
42	DJ0QLP5	.01482
43	DJ0QLS	1.8599
44	DJ0QLD	1.8916
45	CCV3-4	.52142
46	CCB4	.00094
47	DHV6NB	.00018
48	DHV6NC	2.0489
49	DHRLN	.00995
50	DHRLNP5	.00098
51	DHRLNS	1.8295
52	DHRLND	1.8457
53	DHRM3	.01432

#	Sample Name	AS
54	CCV3-5	.51092
55	CCB5	.00057
56	DHLLWB	.00050
57	DHLLWC	2.0106
58	DHKHX	.00178
59	DHKJ2	.00135
60	DHKJC	.00009
61	DHKJF	.00023
62	DHKJH	.00700
63	DHKJK	.00607
64	DHKJL	.00092
65	DHKJLP5	-.00037
66	CCV3-6	.50879
67	CCB6	.00053
68	DHKJLS	1.9793
69	DHKJLD	1.4633
70	DHKJP	-.00007
71	DHKHXF	.00064
72	DHKJ2F	.00131
73	DHKJCF	.00064
74	DHKJFF	.00071
75	DHKJHF	.00605
76	DHKJKF	.00676
77	DHKHLF	.00088
78	CCV3-7	.50859
79	CCB7	.00002
80	DHKJLP5F	.00049
81	DHKJLSF	1.9900
82	DHKJLDF	1.9844
83	DHKJPF	.00055
84	CCV3-8	.50970
85	CCB8	-.00106
86	DJ329BW	-.00074
87	DJ1AWBW	-.00093
88	DJ329CW	1.9843
89	DHVGGW	.00271
90	DHVGGP5W	-.00069
91	DHVGGSW	2.0023
92	DHVGGDW	2.0263
93	DHVGLW	.00512
94	DHVGNW	.00425
95	CCV3-9	.50278
96	CCB9	.00108

Analysis Report Summary 08/22/00 06:55:29 AM

R68220

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	T00821B	METTRA	08/21/00	11:47		X	IR
2	STD6	T00821B	METTRA	08/21/00	11:51		X	IR
3	STD7	T00821B	METTRA	08/21/00	11:55		X	IR
4	ICV3-1 0057-022-8	T00821B	METTRA	08/21/00	11:59	RJG	S	CONC
5	ICB1	T00821B	METTRA	08/21/00	12:03	RJG	S	CONC
6	ICSA 0057-011-1	T00821B	METTRA	08/21/00	12:07	RJG	Q	CONC
7	ICSAB 0014-197-7	T00821B	METTRA	08/21/00	12:11	RJG	Q	CONC
8	DJ5J3B	T00821B	METTRA	08/21/00	12:15	RJG	S	CONC
9	DJ5J3C	T00821B	METTRA	08/21/00	12:19	RJG	S	CONC
10	DGNQP	T00821B	METTRA	08/21/00	12:24	RJG	S	CONC
11	DGNQT	T00821B	METTRA	08/21/00	12:28	RJG	S	CONC
12	DGNQW	T00821B	METTRA	08/21/00	12:32	RJG	S	CONC
13	DGNQX	T00821B	METTRA	08/21/00	12:36	RJG	S	CONC
14	DGNR0	T00821B	METTRA	08/21/00	12:40	RJG	S	CONC
15	DGNR2	T00821B	METTRA	08/21/00	12:44	RJG	S	CONC
16	CCV3-1 0057-023-9	T00821B	METTRA	08/21/00	12:48	RJG	S	CONC
17	CCB1	T00821B	METTRA	08/21/00	12:53	RJG	S	CONC
18	DGR3R	T00821B	METTRA	08/21/00	12:57	RJG	S	CONC
19	DGR3T	T00821B	METTRA	08/21/00	13:01	RJG	S	CONC
20	DGTLP	T00821B	METTRA	08/21/00	13:05	RJG	S	CONC
21	DGTLW	T00821B	METTRA	08/21/00	13:09	RJG	S	CONC
22	DGTM3	T00821B	METTRA	08/21/00	13:13	RJG	S	CONC
23	DGTM5	T00821B	METTRA	08/21/00	13:18	RJG	S	CONC
24	DGTMA	T00821B	METTRA	08/21/00	13:22	RJG	S	CONC
25	DGTMF	T00821B	METTRA	08/21/00	13:26	RJG	S	CONC
26	DGTMN	T00821B	METTRA	08/21/00	13:30	RJG	S	CONC
27	DGTN0	T00821B	METTRA	08/21/00	13:34	RJG	S	CONC
28	CCV3-2	T00821B	METTRA	08/21/00	13:38	RJG	S	CONC
29	CCB2	T00821B	METTRA	08/21/00	13:42	RJG	S	CONC
30	DGXLL	T00821B	METTRA	08/21/00	13:47	RJG	S	CONC
31	DGXLN	T00821B	METTRA	08/21/00	13:51	RJG	S	CONC
32	DGXLNP5	T00821B	METTRA	08/21/00	13:55	RJG	S	CONC
33	DGXLNS	T00821B	METTRA	08/21/00	13:59	RJG	S	CONC
34	DGXLND	T00821B	METTRA	08/21/00	14:03	RJG	S	CONC
35	DGXLQ	T00821B	METTRA	08/21/00	14:07	RJG	S	CONC
36	DGXLR	T00821B	METTRA	08/21/00	14:12	RJG	S	CONC
37	CCV3-3	T00821B	METTRA	08/21/00	14:16	RJG	S	CONC
38	CCB3	T00821B	METTRA	08/21/00	14:20	RJG	S	CONC
39	DJ361B	T00821B	METTRA	08/21/00	14:24	RJG	S	CONC
40	DJ361C	T00821B	METTRA	08/21/00	14:28	RJG	S	CONC
41	DJ0QL	T00821B	METTRA	08/21/00	14:32	RJG	S	CONC
42	DJ0QLP5	T00821B	METTRA	08/21/00	14:36	RJG	S	CONC
43	DJ0QLS	T00821B	METTRA	08/21/00	14:41	RJG	S	CONC
44	DJ0QLD	T00821B	METTRA	08/21/00	14:45	RJG	S	CONC
45	CCV3-4	T00821B	METTRA	08/21/00	14:49	RJG	S	CONC
46	CCB4	T00821B	METTRA	08/21/00	14:53	RJG	S	CONC
47	DHV6NB	T00821B	METTRA	08/21/00	14:57	RJG	S	CONC
48	DHV6NC	T00821B	METTRA	08/21/00	15:01	RJG	S	CONC
49	DHRLN	T00821B	METTRA	08/21/00	15:06	RJG	S	CONC
50	DHRLNP5	T00821B	METTRA	08/21/00	15:10	RJG	S	CONC
51	DHRLNS	T00821B	METTRA	08/21/00	15:14	RJG	S	CONC
52	DHRLND	T00821B	METTRA	08/21/00	15:18	RJG	S	CONC
53	DHRM3	T00821B	METTRA	08/21/00	15:22	RJG	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	CCV3-5	T00821B	METTRA	08/21/00	15:26	RJG	S	CONC
55	CCB5	T00821B	METTRA	08/21/00	15:31	RJG	S	CONC
56	DHLLWB	T00821B	METTRA	08/21/00	15:44	RJG	S	CONC
57	DHLLWC	T00821B	METTRA	08/21/00	15:48	RJG	S	CONC
58	DHKHX	T00821B	METTRA	08/21/00	15:53	RJG	S	CONC
59	DHKJ2	T00821B	METTRA	08/21/00	15:57	RJG	S	CONC
60	DHKJC	T00821B	METTRA	08/21/00	16:01	RJG	S	CONC
61	DHKJF	T00821B	METTRA	08/21/00	16:05	RJG	S	CONC
62	DHKJH	T00821B	METTRA	08/21/00	16:09	RJG	S	CONC
63	DHKJK	T00821B	METTRA	08/21/00	16:13	RJG	S	CONC
64	DHKJL	T00821B	METTRA	08/21/00	16:18	RJG	S	CONC
65	DHKJLP5	T00821B	METTRA	08/21/00	16:22	RJG	S	CONC
66	CCV3-6	T00821B	METTRA	08/21/00	16:26	RJG	S	CONC
67	CCB6	T00821B	METTRA	08/21/00	16:30	RJG	S	CONC
68	DHKJLS	T00821B	METTRA	08/21/00	16:34	RJG	S	CONC
69	DHKJLD	T00821B	METTRA	08/21/00	16:38	RJG	S	CONC
70	DHKJP	T00821B	METTRA	08/21/00	16:43	RJG	S	CONC
71	DHKHXF	T00821B	METTRA	08/21/00	16:47	RJG	S	CONC
72	DHKJ2F	T00821B	METTRA	08/21/00	16:51	RJG	S	CONC
73	DHKJCF	T00821B	METTRA	08/21/00	16:55	RJG	S	CONC
74	DHKJFF	T00821B	METTRA	08/21/00	16:59	RJG	S	CONC
75	DHKJHF	T00821B	METTRA	08/21/00	17:03	RJG	S	CONC
76	DHKJKF	T00821B	METTRA	08/21/00	17:08	RJG	S	CONC
77	DHKHLF	T00821B	METTRA	08/21/00	17:12	RJG	S	CONC
78	CCV3-7	T00821B	METTRA	08/21/00	17:16	RJG	S	CONC
79	CCB7	T00821B	METTRA	08/21/00	17:20	RJG	S	CONC
80	DHKJLP5F	T00821B	METTRA	08/21/00	17:24	RJG	S	CONC
81	DHKJLSF	T00821B	METTRA	08/21/00	17:28	RJG	S	CONC
82	DHKJLDF	T00821B	METTRA	08/21/00	17:33	RJG	S	CONC
83	DHKJPF	T00821B	METTRA	08/21/00	17:37	RJG	S	CONC
84	CCV3-8	T00821B	METTRA	08/21/00	17:41	RJG	S	CONC
85	CCB8	T00821B	METTRA	08/21/00	17:45	RJG	S	CONC
86	DJ329BW	T00821B	METTRA	08/21/00	17:49	RJG	S	CONC
87	DJ1AWBW	T00821B	METTRA	08/21/00	17:53	RJG	S	CONC
88	DJ329CW	T00821B	METTRA	08/21/00	17:58	RJG	S	CONC
89	DHVGGW	T00821B	METTRA	08/21/00	18:02	RJG	S	CONC
90	DHVGGP5W	T00821B	METTRA	08/21/00	18:06	RJG	S	CONC
91	DHVGGSW	T00821B	METTRA	08/21/00	18:10	RJG	S	CONC
92	DHVGGDW	T00821B	METTRA	08/21/00	18:14	RJG	S	CONC
93	DHVGLW	T00821B	METTRA	08/21/00	18:18	RJG	S	CONC
94	DHVGNW	T00821B	METTRA	08/21/00	18:23	RJG	S	CONC
95	CCV3-9	T00821B	METTRA	08/21/00	18:27	RJG	S	CONC
96	CCB9	T00821B	METTRA	08/21/00	18:31	RJG	S	CONC

Method: METTRA Standard: STD1
Run Time: 08/21/00 11:47:01

Elem	AG	AL	AS	BA	BE	CA	CD
Avge	-.00069	.05964	-.01080	.00055	-.08461	.00455	-.00004
SDev	.00312	.01103	.00354	.00007	.00015	.00024	.00255
%RSD	448.69	18.491	32.780	13.489	.18317	5.2521	5716.2
#1	-.00290	.06744	-.00830	.00049	-.08472	.00438	-.00185
#2	.00151	.05184	-.01331	.00060	-.08450	.00472	.00176

Elem	CO	CR	CU	FE	MG	MN	MO
Avge	-.00143	-.00204	.02676	-.00199	-.00209	.00072	.00135
SDev	.00002	.00182	.00215	.00003	.00019	.00003	.00086
%RSD	1.6958	89.170	8.0468	1.3789	9.1816	4.7718	63.593
#1	-.00145	-.00333	.02524	-.00197	-.00222	.00074	.00074
#2	-.00142	-.00076	.02828	-.00201	-.00195	.00069	.00195

Elem	NI	PB/1	PB/2	SB/1	SB/2	SE/1	SE/2
Avge	.00044	.02781	-.00683	-.05874	.01295	-.12516	.08554
SDev	.00027	.00517	.00503	.00777	.00313	.00274	.01001
%RSD	61.730	18.578	73.667	13.228	24.173	2.1885	11.703
#1	.00025	.03147	-.00327	-.05325	.01074	-.12322	.09262
#2	.00063	.02416	-.01038	-.06424	.01516	-.12709	.07846

Elem	TL	V	ZN
Avge	-.04546	.00000	-.00050
SDev	.00129	.00000	.00010
%RSD	2.8326	.00000	19.033
#1	-.04455	.00000	-.00043
#2	-.04637	.00000	-.00057

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16050	--	--	--	--	--	--
SDev	221.3244	--	--	--	--	--	--
%RSD	1.378938	--	--	--	--	--	--
#1	16207	--	--	--	--	--	--
#2	15894	--	--	--	--	--	--

Standardization Rpt. 08/21/00 11:55:20 AM page 1

Method: METTRA Standard: STD6 0051-023-10
Run Time: 08/21/00 11:51:14

Elem	AG	AS	CD	PB/1	PB/2	SB/1	SB/2
Avge	11.969	5.9286	13.782	5.8964	7.2993	10.270	7.2110
SDev	.026	.0289	.062	.0335	.0129	.018	.0757
%RSD	.21497	.48754	.44994	.56804	.17742	.17763	1.0495
#1	11.951	5.9081	13.738	5.8727	7.2901	10.257	7.1575
#2	11.987	5.9490	13.826	5.9200	7.3085	10.283	7.2646

Elem	SE/1	SE/2	TL
Avge	5.6592	5.6193	4.2552
SDev	.0500	.0017	.0051
%RSD	.88290	.02971	.11974
#1	5.6239	5.6181	4.2588
#2	5.6945	5.6205	4.2516

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16022	--	--	--	--	--	--
SDev	76.86265	--	--	--	--	--	--
%RSD	.4797229	--	--	--	--	--	--
#1	16077	--	--	--	--	--	--
#2	15968	--	--	--	--	--	--

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Standardization Rpt. 08/21/00 11:59:01 AM page 1

Method: METTRA Standard: STD7 0051-0241
Run Time: 08/21/00 11:55:25

Elem	AL	BA	BE	CA	CO	CR	CU
Avge	8.3268	15.813	11.900	4.7462	3.2966	12.777	4.1087
SDev	.0039	.017	.026	.0052	.0003	.010	.0076
%RSD	.04722	.10483	.21759	.11011	.00998	.07744	.18523
#1	8.3240	15.801	11.882	4.7425	3.2964	12.770	4.1033
#2	8.3296	15.825	11.918	4.7499	3.2968	12.784	4.1141

Elem	FE	MG	MN	MO	NI	V	ZN
Avge	4.3290	14.480	10.898	2.3888	2.6585	.91852	3.2797
SDev	.0092	.025	.004	.0154	.0033	.00068	.0052
%RSD	.21353	.17372	.03966	.64327	.12483	.07364	.15796
#1	4.3225	14.462	10.894	2.3780	2.6561	.91804	3.2760
#2	4.3355	14.498	10.901	2.3997	2.6608	.91900	3.2833

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15785	--	--	--	--	--	--
SDev	13.01104	--	--	--	--	--	--
%RSD	.0824256	--	--	--	--	--	--
#1	15776	--	--	--	--	--	--
#2	15794	--	--	--	--	--	--

Standardization Report 08/21/00 11:59:02 AM

Method: METTRA Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD6	STD1	.167092	.000116	08/21/00 11:55:25
AL	308.215	STD7	STD1	6.06288	-.361604	08/21/00 11:55:25
AS	189.042	STD6	STD1	.168368	.001819	08/21/00 11:55:25
BA	493.409	STD7	STD1	.252968	-.000138	08/21/00 11:55:25
BE	313.042	STD7	STD1	.331132	.028016	08/21/00 11:55:25
CA	317.933	STD7	STD1	21.0896	-.095954	08/21/00 11:55:25
CD	226.502	STD6	STD1	.072558	.000003	08/21/00 11:55:25
CO	228.616	STD7	STD1	1.21284	.001738	08/21/00 11:55:25
CR	267.716	STD7	STD1	.312846	.000639	08/21/00 11:55:25
CU	324.753	STD7	STD1	.979925	-.026222	08/21/00 11:55:25
FE	271.441	STD7	STD1	11.6277	.023185	08/21/00 11:55:25
MG	279.078	STD7	STD1	6.90508	.014403	08/21/00 11:55:25
MN	257.610	STD7	STD1	.367080	-.000263	08/21/00 11:55:25
MO	202.030	STD7	STD1	1.67539	-.002254	08/21/00 11:55:25
NI	231.604	STD7	STD1	1.50388	-.000659	08/21/00 11:55:25
PB/1	220.351	STD6	STD1	.170400	-.004740	08/21/00 11:55:25
PB/2	220.352	STD6	STD1	.136872	.000934	08/21/00 11:55:25
PB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SB/1	206.831	STD6	STD1	.096816	.005687	08/21/00 11:55:25
SB/2	206.832	STD6	STD1	.138926	-.001799	08/21/00 11:55:25
SB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SE/1	196.021	STD6	STD1	.172880	.021637	08/21/00 11:55:25
SE/2	196.022	STD6	STD1	.180708	-.015457	08/21/00 11:55:25
SE	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
TL	190.864	STD6	STD1	.465040	.021141	08/21/00 11:55:25
V	292.402	STD7	STD1	4.33583	.000000	08/21/00 11:55:25
ZN	213.856	STD7	STD1	1.22711	.000612	08/21/00 11:55:25

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Analysis Report 08/21/00 12:03:12 PM page 1

Method: METTRA Sample Name: ICV3-1 0057-022-8 Operator: RJG
Run Time: 08/21/00 11:59:06
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP Rerun of 8200
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51677	11.931	.26013	1.0155	1.0179	25.466	.25336
SDev	.00460	.055	.00041	.0054	.0201	.448	.00113
%RSD	.88997	.45921	.15805	.53072	1.9777	1.7579	.44800
#1	.51352	11.892	.26042	1.0193	1.0322	25.783	.25256
#2	.52003	11.970	.25984	1.0116	1.0037	25.150	.25416
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	13.750	.27500	1.1000	1.1000	27.500	.27500
Low	.45000	11.250	.22500	.90000	.90000	22.500	.22500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0115	1.0179	.97853	12.486	24.386	.99603	1.0268
SDev	.0156	.0140	.00292	.028	.274	.00406	.0213
%RSD	1.5381	1.3719	.29883	.22609	1.1230	.40723	2.0762
#1	1.0005	1.0080	.98060	12.506	24.580	.99317	1.0117
#2	1.0225	1.0277	.97646	12.466	24.193	.99890	1.0419
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	13.750	27.500	1.1000	1.1000
Low	.90000	.90000	.90000	11.250	22.500	.90000	.90000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0446	.25638	.26220	.26026	.26683	.25668	.26006
SDev	.0190	.00559	.00582	.00202	.01250	.00158	.00311
%RSD	1.8204	2.1817	2.2212	.77692	4.6860	.61575	1.1957
#1	1.0580	.25242	.26632	.26169	.27567	.25557	.26226
#2	1.0311	.26033	.25808	.25883	.25799	.25780	.25787
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	1.1000			.27500			.27500
Low	.90000			.22500			.22500

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25478	.26693	.26288	.53524	1.0203	1.0697
SDev	.00959	.00649	.00113	.01396	.0139	.0100
%RSD	3.7631	2.4295	.43095	2.6081	1.3625	.93306
#1	.24800	.27151	.26368	.54511	1.0301	1.0767
#2	.26156	.26234	.26208	.52537	1.0105	1.0626
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.27500	.55000	1.1000	1.1000
Low			.22500	.45000	.90000	.90000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15988	--	--	--	--	--	--
SDev	231.0471	--	--	--	--	--	--
%RSD	1.445144	--	--	--	--	--	--
#1	16151	--	--	--	--	--	--
#2	15824	--	--	--	--	--	--

Method: METTRA Sample Name: ICB1 Operator: RJG
Run Time: 08/21/00 12:03:16
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	-.04448	-.00043	.00055	.00093	.01419	.00012
SDev	.00026	.00086	.00197	.00031	.00009	.00591	.00025
%RSD	211.21	1.9375	454.59	55.948	9.6269	41.661	198.37
#1	-.00006	-.04387	-.00183	.00033	.00086	.01001	-.00005
#2	.00030	-.04509	.00096	.00077	.00099	.01837	.00030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.00081	.00160	.00152	.01162	.00050	.00415
SDev	.00006	.00029	.00015	.01425	.00637	.00024	.00020
%RSD	74.210	35.873	9.5094	939.03	54.768	48.703	4.8352
#1	.00012	.00060	.00150	-.00856	.00712	.00033	.00429
#2	.00004	.00101	.00171	.01159	.01612	.00067	.00401
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00010	-.00185	-.00055	-.00098	-.00135	-.00022	-.00059
SDev	.00053	.00049	.00143	.00079	.00024	.00067	.00053
%RSD	547.92	26.792	257.45	79.841	18.044	308.58	89.013
#1	-.00047	-.00220	.00045	-.00043	-.00118	.00026	-.00022
#2	.00028	-.00150	-.00156	-.00154	-.00152	-.00069	-.00097
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00208	.00117	.00008	.00072	.00000	.00086
SDev	.00027	.00142	.00085	.00579	.00001	.00040
%RSD	13.077	121.25	1006.7	801.61	939.03	46.565
#1	-.00189	.00017	-.00052	.00481	-.00000	.00058
#2	-.00228	.00217	.00069	-.00337	.00000	.00114
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16086	--	--	--	--	--	--
SDev	50.80535	--	--	--	--	--	--
%RSD	.3158451	--	--	--	--	--	--
#1	16121	--	--	--	--	--	--
#2	16050	--	--	--	--	--	--

Method: METTRA Sample Name: ICSA 0057-011-1 Operator: RJG
Run Time: 08/21/00 12:07:25
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00020	525.90	.00149	.00173	-.00178	485.29	.00283
SDev	.00044	2.72	.00005	.00011	.00001	.53	.00005
%RSD	220.21	.51772	3.1934	6.2757	.74706	.10885	1.7474
#1	.00051	523.97	.00152	.00181	-.00179	484.92	.00286
#2	-.00011	527.82	.00145	.00166	-.00178	485.66	.00279
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.00				500.00	
Range		20.000				20.000	

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00114	.00335	.00397	208.91	535.05	.00870	-.00129
SDev	.00009	.00046	.00017	.81	1.56	.00014	.00056
%RSD	7.4834	13.643	4.3489	.38605	.29094	1.6532	43.560
#1	.00108	.00367	.00409	208.34	533.95	.00880	-.00089
#2	.00120	.00303	.00385	209.49	536.15	.00860	-.00168
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value				200.00	500.00		
Range				20.000	20.000		

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00302	-.06075	.02948	-.00057	-.00218	.00230	.00081
SDev	.00001	.00507	.00500	.00165	.00190	.00086	.00121
%RSD	.44628	8.3404	16.979	289.48	87.305	37.339	148.48
#1	.00301	-.05717	.02594	-.00174	-.00352	.00170	-.00004
#2	.00303	-.06434	.03301	.00060	-.00083	.00291	.00167
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00305	-.00408	-.00374	-.00264	.00055	.00627
SDev	.00210	.00111	.00004	.00382	.00269	.00001
%RSD	68.894	27.095	1.0229	144.89	492.81	.23092
#1	-.00156	-.00486	-.00376	-.00534	.00245	.00628
#2	-.00453	-.00330	-.00371	.00006	-.00136	.00626
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value						
Range						

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14704	--	--	--	--	--	--
SDev	53.66899	--	--	--	--	--	--
%RSD	.3649996	--	--	--	--	--	--
#1	14742	--	--	--	--	--	--
#2	14666	--	--	--	--	--	--

Analysis Report QC Standard 08/21/00 12:15:41 PM

Method: METTRA Sample Name: ICSAB 0014-197-7 Operator: RJG
Run Time: 08/21/00 12:11:35
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1551	527.30	1.0492	.54177	.50009	487.89	.95361
SDev	.0221	11.04	.0260	.00955	.00802	8.71	.01931
%RSD	1.9168	2.0942	2.4802	1.7635	1.6038	1.7844	2.0249
#1	1.1394	519.50	1.0308	.53501	.49442	481.73	.93995
#2	1.1708	535.11	1.0676	.54852	.50576	494.04	.96726
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	500.00	1.0000	.50000	.50000	500.00	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50444	.51505	.57037	209.94	535.87	.52060	1.0114
SDev	.01070	.01102	.01089	4.36	9.77	.01034	.0227
%RSD	2.1219	2.1387	1.9086	2.0784	1.8237	1.9858	2.2400
#1	.49687	.50726	.56268	206.86	528.96	.51329	.99535
#2	.51201	.52284	.57807	213.03	542.78	.52791	1.0274
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	500.00	.50000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q1.3458	1.0338	1.0658	1.0552	1.0877	1.0886	1.0883
SDev	.0233	.0109	.0282	.0225	.0406	.0097	.0200
%RSD	1.7315	1.0576	2.6464	2.1280	3.7339	.88789	1.8351
#1	Q1.3293	1.0261	1.0459	1.0393	1.0590	1.0818	1.0742
#2	Q1.3623	1.0416	1.0857	1.0710	1.1164	1.0955	1.1025
Errors	QC Fail	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	1.0000			1.0000			1.0000
Range	20.000			20.000			20.000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0388	1.0636	1.0554	1.1202	.52131	1.0926
SDev	.0023	.0331	.0228	.0231	.00856	.0216
%RSD	.22222	3.1095	2.1631	2.0616	1.6424	1.9732
#1	1.0372	1.0402	1.0392	1.1039	.51525	1.0774
#2	1.0405	1.0870	1.0715	1.1366	.52736	1.1079
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value			1.0000	1.0000	.50000	1.0000
Range			20.000	20.000	20.000	20.000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	14684	--	--	--	--	--	--
SDev	258.0587	--	--	--	--	--	--
%RSD	1.757453	--	--	--	--	--	--
#1	14866	--	--	--	--	--	--
#2	14501	--	--	--	--	--	--

Method: METTRA Sample Name: DJ5J3B Operator: RJG
Run Time: 08/21/00 12:15:45
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00068	.00638	-.00122	.00031	.00001	.08679	.00025
SDev	.00049	.01305	.00018	.00007	.00020	.01559	.00005
%RSD	71.298	204.57	15.048	23.590	2248.7	17.958	19.153
#1	.00034	.01560	-.00109	.00025	.00015	.09781	.00022
#2	.00103	-.00285	-.00136	.00036	-.00013	.07577	.00028
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00002	.00089	.00176	.03358	.06188	.00025	.00292
SDev	.00026	.00038	.00023	.00094	.01205	.00004	.00064
%RSD	1189.4	42.936	13.249	2.8054	19.476	14.835	21.779
#1	.00016	.00062	.00160	.03424	.07041	.00023	.00337
#2	-.00021	.00116	.00192	.03291	.05336	.00028	.00247
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00241	.00488	-.00211	.00022	-.00342	.00075	-.00064
SDev	.00003	.00156	.00023	.00037	.00185	.00116	.00139
%RSD	1.0541	32.075	10.944	168.28	54.156	154.82	216.60
#1	.00239	.00598	-.00227	.00048	-.00474	-.00007	-.00162
#2	.00243	.00377	-.00194	-.00004	-.00211	.00157	.00034
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00652	.00421	.00064	-.00223	.00001	.00314
SDev	.00312	.00173	.00219	.00033	.00000	.00003
%RSD	47.830	41.035	344.73	14.806	2.8054	1.0872
#1	-.00431	.00543	.00218	-.00246	.00001	.00316
#2	-.00872	.00299	-.00091	-.00199	.00001	.00311
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15690	--	--	--	--	--	--
SDev	130.7443	--	--	--	--	--	--
%RSD	.8333130	--	--	--	--	--	--
#1	15782	--	--	--	--	--	--
#2	15597	--	--	--	--	--	--

Analysis Report 08/21/00 12:24:00 PM page 1

Method: METTRA Sample Name: DJ5J3C Operator: RJG
Run Time: 08/21/00 12:19:54
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04879	1.8509	2.0973	2.0482	.05320	L.14425	.05294
SDev	.00037	.0213	.0240	.0231	.00026	.00109	.00060
%RSD	.75811	1.1491	1.1457	1.1276	.47990	.75382	1.1413
#1	.04853	1.8359	2.0804	2.0318	.05302	L.14502	.05252
#2	.04906	1.8659	2.1143	2.0645	.05338	L.14348	.05337
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53829	.21636	.25233	1.0617	L.04133	.52126	L.00125
SDev	.00734	.00268	.00357	.0099	.00507	.00591	.00018
%RSD	1.3637	1.2397	1.4148	.92873	12.268	1.1339	14.021
#1	.53310	.21446	.24980	1.0548	L.04492	.51708	L.00113
#2	.54348	.21826	.25485	1.0687	L.03775	.52544	L.00138
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53201	.53517	.52630	.52925	-.00411	.00102	L-.00068
SDev	.00713	.00502	.00938	.00793	.00135	.00058	.00083
%RSD	1.3392	.93882	1.7831	1.4988	32.785	56.398	121.85
#1	.52698	.53161	.51966	.52364	-.00315	.00143	L-.00009
#2	.53705	.53872	.53293	.53486	-.00506	.00062	L-.00127
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0499	2.0542	2.0528	2.1292	.52203	.55631
SDev	.0240	.0282	.0268	.0164	.00536	.00616
%RSD	1.1689	1.3729	1.3051	.77089	1.0274	1.1066
#1	2.0330	2.0343	2.0338	2.1176	.51823	.55196
#2	2.0668	2.0741	2.0717	2.1408	.52582	.56067
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			2.4000	2.4000	.60000	.60000
Low			1.6000	1.6000	.40000	.40000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15760	--	--	--	--	--	--
SDev	114.9048	--	--	--	--	--	--
%RSD	.7291148	--	--	--	--	--	--
#1	15841	--	--	--	--	--	--
#2	15678	--	--	--	--	--	--

670 500

Analysis Report 08/21/00 12:28:08 PM

Method: METTRA Sample Name: DGNQP Operator: RJG
Run Time: 08/21/00 12:24:03
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00096	52.832	.02911	.31182	.00367	28.111	.00188
SDev	.00032	.306	.00044	.00094	.00005	.174	.00019
%RSD	32.776	.57922	1.5273	.30106	1.4767	.61781	10.326
#1	.00074	52.615	.02942	.31116	.00371	27.989	.00174
#2	.00119	53.048	.02879	.31249	.00363	28.234	.00201
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01953	.06562	.06619	101.96	13.795	1.1434	.00413
SDev	.00033	.00056	.00048	.70	.067	.0079	.00078
%RSD	1.6934	.85984	.71887	.68534	.48890	.68807	18.927
#1	.01930	.06523	.06585	101.46	13.747	1.1378	.00358
#2	.01977	.06602	.06652	102.45	13.843	1.1489	.00468
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05250	.10479	.10382	.10414	-.00136	.00188	.00080
SDev	.00088	.00239	.00170	.00193	.00025	.00061	.00049
%RSD	1.6755	2.2828	1.6422	1.8568	18.269	32.252	60.770
#1	.05187	.10310	.10261	.10278	-.00154	.00145	.00046
#2	.05312	.10649	.10502	.10551	-.00118	.00231	.00115
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00152	.00753	.00452	.00010	.13034	.23042
SDev	.00007	.00113	.00073	.00169	.00125	.00177
%RSD	4.4269	15.053	16.244	1611.8	.95720	.76834
#1	-.00147	.00673	.00400	-.00109	.12946	.22917
#2	-.00157	.00833	.00503	.00130	.13122	.23167
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16018	--	--	--	--	--	--
SDev	104.9701	--	--	--	--	--	--
%RSD	.6553149	--	--	--	--	--	--
#1	16092	--	--	--	--	--	--
#2	15944	--	--	--	--	--	--

Method: METTRA Sample Name: DGNQT Operator: RJG
Run Time: 08/21/00 12:28:12
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00077	36.076	.00774	.27549	.00266	13.055	.00250
SDev	.00002	.062	.00049	.00143	.00015	.002	.00013
%RSD	2.9472	.17073	6.3296	.51952	5.6406	.01842	4.9924
#1	.00079	36.120	.00739	.27650	.00255	13.057	.00241
#2	.00076	36.033	.00809	.27448	.00276	13.053	.00259
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00714	.03652	.07009	28.380	5.9055	.10105	.00379
SDev	.00005	.00021	.00083	.002	.0127	.00008	.00067
%RSD	.69671	.57295	1.1894	.00664	.21518	.07543	17.527
#1	.00711	.03637	.07068	28.379	5.9145	.10111	.00332
#2	.00718	.03667	.06950	28.382	5.8965	.10100	.00426
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03163	.19569	.19385	.19446	.00066	.00021	.00036
SDev	.00051	.00137	.00083	.00010	.00237	.00114	.00155
%RSD	1.6116	.69835	.42586	.04913	359.41	540.41	430.00
#1	.03127	.19666	.19326	.19439	.00234	.00101	.00145
#2	.03199	.19473	.19443	.19453	-.00102	-.00059	-.00073
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	.00572	.00394	-.00164	.06203	.13286
SDev	.00140	.00215	.00097	.00167	.00023	.00014
%RSD	374.96	37.574	24.579	101.55	.37241	.10548
#1	-.00062	.00724	.00463	-.00282	.06219	.13276
#2	.00136	.00420	.00326	-.00046	.06187	.13296
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15931	--	--	--	--	--	--
SDev	11.98560	--	--	--	--	--	--
%RSD	.0752348	--	--	--	--	--	--
#1	15922	--	--	--	--	--	--
#2	15939	--	--	--	--	--	--

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Method: METTRA Sample Name: DGNQW Operator: RJG
Run Time: 08/21/00 12:32:21
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	60.590	.01191	.39395	.00404	35.531	.00208
SDev	.00026	.296	.00024	.00240	.00017	.255	.00011
%RSD	55.171	.48846	1.9974	.60892	4.3313	.71657	5.0628
#1	.00066	60.800	.01174	.39564	.00392	35.711	.00216
#2	.00029	60.381	.01208	.39225	.00416	35.351	.00201
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01013	.04784	.07020	41.519	11.449	.19167	.00168
SDev	.00006	.00042	.00081	.255	.066	.00109	.00053
%RSD	.60939	.87075	1.1525	.61404	.57224	.56897	31.291
#1	.01009	.04813	.07077	41.699	11.496	.19245	.00205
#2	.01017	.04754	.06963	41.339	11.403	.19090	.00131
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04190	.13663	.14384	.14144	.00173	-.00033	.00036
SDev	.00100	.00027	.00153	.00093	.00242	.00057	.00119
%RSD	2.3754	.19506	1.0664	.66060	140.04	173.80	334.33
#1	.04260	.13645	.14492	.14210	.00344	.00008	.00120
#2	.04119	.13682	.14275	.14078	.00002	-.00074	-.00049
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00371	.00385	.00381	.00624	.08072	.16639
SDev	.00197	.00099	.00000	.00289	.00099	.00115
%RSD	53.139	25.617	.03515	46.337	1.2238	.69387
#1	.00511	.00316	.00381	.00829	.08142	.16721
#2	.00232	.00455	.00381	.00420	.08002	.16558
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16401	--	--	--	--	--	--
SDev	83.72103	--	--	--	--	--	--
%RSD	.5104660	--	--	--	--	--	--
#1	16342	--	--	--	--	--	--
#2	16460	--	--	--	--	--	--

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Method: METTRA Sample Name: DGNQX Operator: RJG
Run Time: 08/21/00 12:36:30
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00079	46.567	.00696	.46253	.00310	24.989	.00194
SDev	.00007	.187	.00007	.00022	.00005	.002	.00011
%RSD	8.5348	.40151	.94362	.04756	1.4530	.00992	5.5968
#1	.00075	46.435	.00691	.46238	.00307	24.991	.00186
#2	.00084	46.699	.00701	.46269	.00313	24.987	.00202
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00939	.03932	.06625	25.606	7.7575	.25847	.00339
SDev	.00013	.00023	.00058	.091	.0075	.00069	.00094
%RSD	1.3615	.59204	.88195	.35346	.09688	.26592	27.610
#1	.00930	.03916	.06584	25.542	7.7522	.25799	.00405
#2	.00948	.03949	.06666	25.670	7.7628	.25896	.00273
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03916	.15575	.15835	.15749	-.00235	.00103	-.00010
SDev	.00094	.00103	.00354	.00202	.00129	.00002	.00044
%RSD	2.3983	.66038	2.2389	1.2841	54.959	2.0851	468.06
#1	.03982	.15648	.15585	.15606	-.00327	.00102	-.00041
#2	.03849	.15502	.16086	.15892	-.00144	.00105	.00022
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00144	.00544	.00411	.00299	.06633	.78269
SDev	.00110	.00112	.00038	.00074	.00019	.00182
%RSD	76.612	20.642	9.3099	24.885	.29359	.23296
#1	.00222	.00465	.00384	.00246	.06619	.78140
#2	.00066	.00623	.00438	.00351	.06646	.78398
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16169	--	--	--	--	--	--
SDev	45.96194	--	--	--	--	--	--
%RSD	.2842640	--	--	--	--	--	--
#1	16201	--	--	--	--	--	--
#2	16136	--	--	--	--	--	--

Method: METTRA Sample Name: DGNR0 Operator: RJG
Run Time: 08/21/00 12:40:39
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	7.6646	.00429	.11043	.00146	15.796	.00092
SDev	.00050	.0106	.00108	.00007	.00004	.119	.00009
%RSD	8582.1	.13832	25.077	.06805	2.7677	.75630	9.5713
#1	.00035	7.6721	.00506	.11038	.00149	15.881	.00098
#2	-.00036	7.6572	.00353	.11048	.00144	15.712	.00085
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00513	.00986	.03233	8.0347	2.9551	.12767	.00104
SDev	.00028	.00078	.00006	.0315	.0119	.00050	.00078
%RSD	5.3905	7.9049	.17966	.39176	.40221	.39255	75.046
#1	.00533	.01041	.03237	8.0569	2.9635	.12803	.00159
#2	.00494	.00931	.03228	8.0124	2.9467	.12732	.00049
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01445	.11568	.12486	.12180	.00233	-.00094	.00015
SDev	.00081	.00448	.00257	.00022	.00598	.00165	.00089
%RSD	5.6124	3.8719	2.0590	.18331	256.53	175.43	600.49
#1	.01388	.11885	.12304	.12164	-.00190	.00023	-.00048
#2	.01502	.11251	.12668	.12196	.00656	-.00211	.00078
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00618	.00115	.00283	.00784	.01959	.08210
SDev	.00393	.00208	.00008	.00201	.00003	.00060
%RSD	63.647	180.06	2.7042	25.629	.16568	.73057
#1	.00895	-.00032	.00277	.00642	.01957	.08252
#2	.00340	.00262	.00288	.00926	.01962	.08167
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16528	--	--	--	--	--	--
SDev	42.77996	--	--	--	--	--	--
%RSD	.2588309	--	--	--	--	--	--
#1	16558	--	--	--	--	--	--
#2	16498	--	--	--	--	--	--

Method: METTRA Sample Name: DGNR2 Operator: RJG
Run Time: 08/21/00 12:44:47
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00064	62.717	.02478	.32619	.00403	16.064	.00306
SDev	.00000	.082	.00056	.00022	.00012	.009	.00031
%RSD	.69904	.13044	2.2799	.06673	2.9049	.05464	10.035
#1	.00063	62.660	.02438	.32634	.00394	16.070	.00285
#2	.00064	62.775	.02518	.32603	.00411	16.058	.00328
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02734	.10307	.13682	178.06	14.214	.96145	.00221
SDev	.00023	.00021	.00007	.04	.019	.00022	.00055
%RSD	.84472	.20028	.05009	.02287	.13073	.02288	24.932
#1	.02718	.10292	.13687	178.09	14.227	.96130	.00182
#2	.02750	.10321	.13677	178.04	14.201	.96161	.00260
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07788	.18160	.18870	.18633	-.00028	-.00058	-.00048
SDev	.00114	.00146	.00114	.00125	.00337	.00037	.00137
%RSD	1.4627	.80547	.60364	.66914	1206.8	63.851	286.07
#1	.07708	.18263	.18950	.18721	.00211	-.00032	.00049
#2	.07869	.18056	.18789	.18545	-.00266	-.00084	-.00145
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.00168	.00116	.00054	.11089	.38478
SDev	.00017	.00064	.00037	.00246	.00029	.00014
%RSD	133.80	37.833	31.579	453.98	.26190	.03628
#1	.00001	.00213	.00142	.00228	.11069	.38488
#2	.00025	.00123	.00090	-.00120	.11110	.38468
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16508	--	--	--	--	--	--
SDev	85.55992	--	--	--	--	--	--
%RSD	.5182811	--	--	--	--	--	--
#1	16448	--	--	--	--	--	--
#2	16569	--	--	--	--	--	--

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Method: METTRA Sample Name: CCV3-1 0057-023-9 Operator: RJG
Run Time: 08/21/00 12:48:56
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0436	24.122	.51402	1.9959	2.0273	50.579	.49951
SDev	.0043	.061	.00162	.0074	.0125	.266	.00211
%RSD	.40781	.25203	.31549	.37287	.61836	.52559	.42140
#1	1.0466	24.165	.51516	2.0012	2.0361	50.767	.50100
#2	1.0406	24.079	.51287	1.9906	2.0184	50.391	.49302
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0270	2.0298	1.9510	25.105	49.103	2.0057	2.0406
SDev	.0090	.0083	.0080	.121	.220	.0080	.0026
%RSD	.44555	.41034	.40783	.48362	.44816	.39688	.12927
#1	2.0334	2.0357	1.9567	25.191	49.259	2.0114	2.0387
#2	2.0206	2.0239	1.9454	25.019	48.948	2.0001	2.0424
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0096	.52116	.51825	.51922	.51801	.51544	.51629
SDev	.0129	.00369	.00115	.00200	.00500	.00277	.00351
%RSD	.64346	.70807	.22185	.38436	.96552	.53772	.68065
#1	2.0187	.52377	.51907	.52063	.52154	.51740	.51878
#2	2.0004	.51855	.51744	.51781	.51447	.51348	.51381
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51582	.52238	.52019	1.0475	2.0080	2.0577
SDev	.00073	.00686	.00434	.0127	.0080	.0118
%RSD	.14077	1.3137	.83342	1.2108	.40087	.57208
#1	.51531	.52723	.52326	1.0565	2.0136	2.0661
#2	.51633	.51753	.51713	1.0385	2.0023	2.0494
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.55000	1.1000	2.2000	2.2000
Low			.45000	.90000	1.8000	1.8000

670 513

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15979	--	--	--	--	--	--
SDev	59.39697	--	--	--	--	--	--
%RSD	.3717259	--	--	--	--	--	--
#1	15937	--	--	--	--	--	--
#2	16021	--	--	--	--	--	--

Method: METTRA Sample Name: CCB1 Operator: RJG
Run Time: 08/21/00 12:53:05
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00042	-.03215	-.00054	.00055	.00089	.01531	.00026
SDev	.00004	.00591	.00102	.00025	.00033	.00508	.00009
%RSD	10.249	18.382	188.75	45.019	37.381	33.170	33.287
#1	.00039	-.02797	.00018	.00037	.00066	.01172	.00020
#2	.00045	-.03632	-.00126	.00072	.00113	.01890	.00032
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00038	.00093	.00140	.00870	.01504	.00056	.00493
SDev	.00091	.00011	.00003	.00815	.00333	.00022	.00194
%RSD	239.27	11.590	2.2839	93.629	22.151	39.876	39.437
#1	-.00026	.00086	.00142	.00294	.01268	.00040	.00630
#2	.00102	.00101	.00137	.01446	.01739	.00071	.00355
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00074	-.00105	-.00105	-.00105	-.00033	-.00006	-.00015
SDev	.00040	.00022	.00127	.00092	.00149	.00043	.00078
%RSD	54.050	21.247	121.44	88.056	448.22	668.12	509.79
#1	.00103	-.00089	-.00015	-.00040	.00072	.00024	.00040
#2	.00046	-.00121	-.00195	-.00170	-.00138	-.00037	-.00071
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00164	.00124	.00138	-.00139	.00000	.00084
SDev	.00001	.00181	.00121	.00054	.00000	.00016
%RSD	.55962	146.08	87.717	38.715	93.629	19.313
#1	.00164	.00252	.00223	-.00101	.00000	.00072
#2	.00165	-.00004	.00052	-.00177	.00001	.00095
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16109	--	--	--	--	--	--
SDev	68.76614	--	--	--	--	--	--
%RSD	.4268703	--	--	--	--	--	--
#1	16061	--	--	--	--	--	--
#2	16158	--	--	--	--	--	--

Method: METTRA Sample Name: DGR3R Operator: RJG
Run Time: 08/21/00 12:57:15
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00194	110.62	.07291	.44808	.00802	187.08	.00460
SDev	.00052	.67	.00011	.00091	.00023	1.38	.00056
%RSD	26.744	.60911	.14460	.20281	2.9236	.73570	12.185
#1	.00157	110.14	.07298	.44743	.00819	186.11	.00420
#2	.00231	111.09	.07283	.44872	.00786	188.05	.00499
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12869	.16732	.33703	264.99	61.988	6.4549	.00403
SDev	.00136	.00178	.00222	1.95	.411	.0543	.00116
%RSD	1.0535	1.0637	.65833	.73561	.66326	.84063	28.830
#1	.12774	.16606	.33546	263.61	61.697	6.4165	.00486
#2	.12965	.16857	.33860	266.37	62.278	6.4932	.00321
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.28261	.13188	.14633	.14152	-.00163	.00136	.00036
SDev	.00031	.00070	.00092	.00084	.00367	.00060	.00082
%RSD	.10838	.52742	.62727	.59628	224.31	44.139	228.35
#1	.28283	.13139	.14568	.14092	-.00423	.00178	-.00022
#2	.28239	.13237	.14698	.14212	.00096	.00093	.00094
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00434	-.00321	-.00358	-.00232	.18836	.71415
SDev	.00128	.00096	.00022	.00223	.00304	.00606
%RSD	29.396	30.076	6.0951	96.227	1.6156	.84840
#1	-.00344	-.00389	-.00374	-.00389	.19051	.70987
#2	-.00524	-.00252	-.00343	-.00074	.18620	.71844
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17302	--	--	--	--	--	--
SDev	191.5196	--	--	--	--	--	--
%RSD	1.106930	--	--	--	--	--	--
#1	17437	--	--	--	--	--	--
#2	17166	--	--	--	--	--	--

Analysis Report 08/21/00 01:05:30 PM

Method: METTRA Sample Name: DGR3T Operator: RJG
Run Time: 08/21/00 13:01:24
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00157	126.01	.07242	.60274	.01011	73.836	.00394
SDev	.00001	.06	.00118	.00032	.00011	.172	.00000
%RSD	.84059	.04913	1.6275	.05278	1.0415	.23235	.01995
#1	.00158	125.96	.07325	.60297	.01018	73.714	.00394
#2	.00157	126.05	.07158	.60252	.01004	73.957	.00394
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13911	.21204	.33210	283.66	51.631	5.1867	.00882
SDev	.00043	.00052	.00065	.37	.034	.0120	.00005
%RSD	.30668	.24571	.19488	.12882	.06673	.23193	.54103
#1	.13881	.21167	.33164	283.40	51.606	5.1782	.00878
#2	.13942	.21241	.33255	283.92	51.655	5.1952	.00885
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25689	.15959	.17828	.17206	.00214	.00084	.00128
SDev	.00304	.00067	.00125	.00106	.00194	.00020	.00051
%RSD	1.1843	.42246	.70291	.61629	90.312	23.633	40.054
#1	.25473	.15911	.17739	.17131	.00351	.00070	.00164
#2	.25904	.16006	.17917	.17280	.00077	.00099	.00092
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00054	-.00008	-.00023	-.00096	.20411	.79195
SDev	.00041	.00005	.00010	.00085	.00058	.00181
%RSD	75.734	59.501	44.487	88.558	.28430	.22898
#1	-.00025	-.00011	-.00016	-.00156	.20370	.79066
#2	-.00083	-.00005	-.00031	-.00036	.20452	.79323
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18158	--	--	--	--	--	--
SDev	78.24164	--	--	--	--	--	--
%RSD	.4308846	--	--	--	--	--	--
#1	18214	--	--	--	--	--	--
#2	18103	--	--	--	--	--	--

670 520

Analysis Report 08/21/00 01:09:40 PM

Method: METTRA Sample Name: DGTLP Operator: RJG
Run Time: 08/21/00 13:05:34
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00121	80.182	.05730	.33462	.00659	182.76	.00298
SDev	.00009	.697	.00015	.00221	.00001	.67	.00027
%RSD	7.6027	.86895	.26643	.66052	.10222	.36425	8.9843
#1	.00128	79.689	.05741	.33306	.00658	182.29	.00279
#2	.00115	80.675	.05719	.33618	.00659	183.23	.00317
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11082	.12843	.26646	200.81	52.646	4.7501	.00350
SDev	.00144	.00030	.00221	1.14	.275	.0299	.00043
%RSD	1.2957	.23360	.82935	.56560	.52328	.62997	12.407
#1	.10980	.12822	.26490	200.01	52.452	4.7289	.00319
#2	.11183	.12864	.26802	201.62	52.841	4.7713	.00381
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21557	.10138	.11297	.10911	-.00141	.00106	.00024
SDev	.00134	.00141	.00194	.00176	.00045	.00011	.00022
%RSD	.61907	1.3931	1.7135	1.6144	31.754	10.308	92.219
#1	.21652	.10038	.11160	.10787	-.00173	.00099	.00008
#2	.21463	.10238	.11434	.11036	-.00109	.00114	.00040
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00358	.00113	-.00044	-.00129	.13723	.56610
SDev	.00028	.00066	.00053	.00316	.00064	.00315
%RSD	7.8296	58.006	121.46	245.07	.46286	.55699
#1	-.00338	.00159	-.00006	.00094	.13678	.56387
#2	-.00377	.00067	-.00081	-.00352	.13768	.56833
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17184	--	--	--	--	--	--
SDev	61.09430	--	--	--	--	--	--
%RSD	.3555229	--	--	--	--	--	--
#1	17228	--	--	--	--	--	--
#2	17141	--	--	--	--	--	--

Analysis Report 08/21/00 01:13:49 PM

Method: METTRA Sample Name: DGTLW Operator: RJG
Run Time: 08/21/00 13:09:43
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00115	108.48	.06247	.48575	.00801	175.68	.00408
SDev	.00008	.51	.00002	.00096	.00017	.08	.00056
%RSD	7.3261	.47189	.03353	.19667	2.0869	.04827	13.656
#1	.00109	108.12	.06248	.48507	.00812	175.62	.00369
#2	.00120	108.84	.06245	.48642	.00789	175.74	.00447
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08522	.16639	.30239	264.26	97.273	3.3517	.00160
SDev	.00063	.00090	.00045	.84	.114	.0103	.00001
%RSD	.74002	.54355	.15010	.31837	.11730	.30784	.53657
#1	.08477	.16575	.30207	263.67	97.192	3.3444	.00160
#2	.08567	.16703	.30272	264.86	97.353	3.3590	.00161
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23851	.10329	.11505	.11114	-.00164	.00105	.00015
SDev	.00072	.00135	.00264	.00131	.00328	.00059	.00070
%RSD	.30086	1.3083	2.2955	1.1802	199.56	55.572	453.44
#1	.23800	.10424	.11319	.11021	-.00396	.00147	-.00034
#2	.23901	.10233	.11692	.11206	.00068	.00064	.00065
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00380	-.00285	-.00316	.00168	.19000	.69757
SDev	.00104	.00186	.00090	.00049	.00143	.00162
%RSD	27.436	65.522	28.343	29.076	.75259	.23252
#1	-.00306	-.00416	-.00380	.00202	.19101	.69643
#2	-.00454	-.00153	-.00253	.00133	.18899	.69872
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17369	--	--	--	--	--	--
SDev	38.75000	--	--	--	--	--	--
%RSD	.2231044	--	--	--	--	--	--
#1	17396	--	--	--	--	--	--
#2	17341	--	--	--	--	--	--

Analysis Report 08/21/00 01:17:59 PM

Method: METTRA Sample Name: DGTM3 Operator: RJG
Run Time: 08/21/00 13:13:53
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00360	105.17	.06545	.44376	.00785	115.42	.00636
SDev	.00002	.27	.00023	.00092	.00004	.09	.00070
%RSD	.64905	.25328	.34498	.20714	.53487	.07885	11.022
#1	.00358	104.99	.06529	.44311	.00787	115.35	.00587
#2	.00361	105.36	.06561	.44441	.00782	115.48	.00686
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13162	.17183	.28111	252.25	58.343	5.7826	.00121
SDev	.00022	.00030	.00100	.17	.112	.0128	.00053
%RSD	.16518	.17651	.35685	.06888	.19263	.22185	44.250
#1	.13147	.17161	.28040	252.12	58.263	5.7735	.00159
#2	.13178	.17204	.28182	252.37	58.422	5.7917	.00083
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25696	.17280	.18731	.18247	.00096	-.00058	-.00007
SDev	.00074	.00021	.00020	.00021	.00058	.00088	.00039
%RSD	.28840	.12076	.10904	.11274	60.535	150.82	555.57
#1	.25748	.17265	.18716	.18233	.00055	.00004	.00021
#2	.25643	.17294	.18745	.18262	.00137	-.00121	-.00035
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00493	.00014	-.00155	-.00074	.19411	.70303
SDev	.00040	.00112	.00088	.00010	.00071	.00056
%RSD	8.1948	813.77	57.079	12.970	.36615	.07898
#1	-.00464	.00093	-.00092	-.00067	.19360	.70264
#2	-.00521	-.00066	-.00217	-.00081	.19461	.70342
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

FINAL PAGE

PART I

ADMINISTRATIVE RECORD

PART I

FINAL PAGE