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File: 541.460.000n
C.H.



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 667

**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

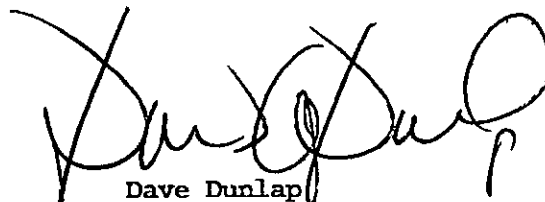
Dunn Field, Def Depot Memphis

Lot #: C0H120157

Frank Johnson

UXB International

SEVERN TRENT LABORATORIES, INC.



Dave Dunlap
Project Manager

August 31, 2000

CASE NARRATIVE
UXB International Inc.
Dunn Field

LOT # C0H120157

Sample Receiving:

STL Pittsburgh received a sample on August 12, 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 Metals:

There were no problems associated with the analysis.

General Chemistry:

STL North Canton did the reactive cyanide and reactive sulfide analyses. All data is included in the package.

There were no problems associated with the analyses.

METHODS SUMMARY

COH120157

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.

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SAMPLE SUMMARY

COH120157

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DHQQN	001	DF/S1/0224/GRAB/005	08/11/00	10:00
DHQQQ	002	DF/S1/0224/SDC/024	08/11/00	10:00
DHQXR	003	DF/S1/0224/SDC/025	08/11/00	10:00

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.

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Cooler Receipt Form

STL Pittsburgh

Client: UXB International Project: _____ Quote: 34878
 Cooler Rec'd & Opened for Temp. Check on: 8-12-00
 Coolers Opened and Unpacked on: 8-12-00 By: AC
 (Signature)

STL Pittsburgh Lot Number: COH120157

	Yes	No
1. Were custody seals on the outside of the cooler? _____	☒	☐
If YES, how many and where? Quantity <u>2</u> Location <u>Front</u>		
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? <u>Bubble pack & bubble tape</u>		
7. Were the samples chilled? (Record temperatures on reverse side.) _____	☒	☐
8. Were the samples appropriately preserved? _____	☒	☐
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? _____	☒	☐
15. Was a sufficient amount of sample sent in each bottle? _____	☒	☐
16. Samples received by: <u>FEDEX</u> <u>UPS</u> <u>CLIENT DROP-OFF</u> <u>OTHER</u> <u>AIRBORNE</u>		

Explain any discrepancies: _____

Level 2 Review _____
 Was contacted on _____ by _____ to resolve discrepancies.

UP: Unpreserved

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

Lot Number*

[illegible]

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FedEx. USA Airbill

FedEx Tracking Number 821738766900

Date 8/14/00

Sender's Name Chloris Rose Phone 901 745-4999

Company WXB Int

Address Residence Inn, 1111 W. Old Poplar St Dept./Room/Suite/Box

City Memphis State TN ZIP 38119

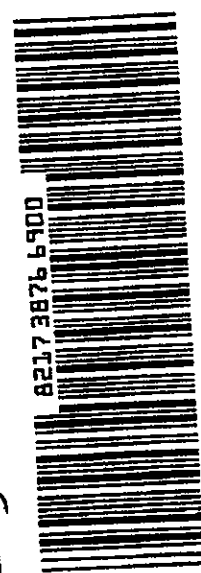
2 Your Internal Billing Reference

3 To Recipient's Name Rusty Vincine Phone 412 820-2081

Company Sevens Trent

Address 452 William Pitt Way Dept./Room/Suite/Box

City Pittsburgh State PA ZIP 15238



34878

0200

Packages up to 150 lbs.

4a Express Package Service

☒ FedEx Priority Overnight

☐ FedEx Standard Overnight

☐ FedEx First Overnight

☐ FedEx 2Day

☐ FedEx Express Saver

4b Express Freight Service

☐ FedEx 1Day Freight

☐ FedEx 2Day Freight

☐ FedEx 3Day Freight

5 Packaging

☐ FedEx Letter

☐ FedEx Pak

6 Special Handling

☒ Saturday Delivery

☐ Sunday Delivery

☐ Hold Weekday

☐ Hold Saturday

7 Payment

☒ Bill To

☐ Recipient

☐ Third Party

☐ Credit Card

☐ Cash/Check

8 Release Signature

Signature

Signature

Signature

Signature

Signature

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Signature

Signature

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SBCCOM
M nitoring Branch Laboratory

CLEARANCE REPORT

August-11, 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/S1/02 24/GRAB /005		ND	ND	N/A	ND	ND
DF/S1/02 24/SDC/ 024		ND	ND	N/A	ND	ND
DF/S1/02 24/SDC/ 025		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

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DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH120157 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/12/00

Work Order: DHQXN102

Date Extracted: 08/18/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0231136

Client Sample Id: DF/S1/0224/GRAB/005

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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/12/00

Work Order: DHQXQ102

Date Extracted: 08/18/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0231136

Client Sample Id: DF/S1/0224/SDC/024

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH120157 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/12/00

Work Order: DHQXR102

Date Extracted: 08/18/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0231136

Client Sample Id: DF/S1/0224/SDC/025

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID: C0H180000 136

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 08/11/00

Work Order: DJ34T101 Date Extracted: 08/18/00

Dilution factor: 1 Date Analyzed: 08/18/00

QC Batch: 0231136

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.463	
78-93-3	2-Butanone	0.526	
56-23-5	Carbon tetrachloride	0.503	
108-90-7	Chlorobenzene	0.446	
67-66-3	Chloroform	0.493	
107-06-2	1,2-Dichloroethane	0.495	
75-35-4	1,1-Dichloroethene	0.472	
127-18-4	Tetrachloroethene	0.427	
79-01-6	Trichloroethene	0.444	
75-01-4	Vinyl chloride	0.503	

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0H120157

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC RE-2	89	99	112	102	00
02	DF/S1/0224/GRAB/005	89	94	108	98	00
03	DF/S1/0224/SDC/024	90	95	108	100	00
04	DF/S1/0224/SDC/025	92	94	113	101	00
05	METHOD BLK. DJ32V101	87	98	107	102	00
06	LCS DJ34T101	94	102	110	103	00
07	LAB MS/MSD D	95	97	104	98	00
08	LAB MS/MSD S	96	103	112	107	00

SURROGATES

SRG01 = 4-Bromofluorobenzene
 SRG02 = Dibromofluoromethane
 SRG03 = 1,2-Dichloroethane-d4
 SRG04 = Toluene-d8

QC LIMITS

(80-114)
 (78-110)
 (77-120)
 (78-111)

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

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0H180000

WO #: DJ34T101

BATCH: 0231136

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Benzene	0.500	0.463	93	79 - 116	
Carbon tetrachloride	0.500	0.503	101	72 - 133	
Chlorobenzene	0.500	0.446	89	81 - 115	
Chloroform	0.500	0.493	99	81 - 122	
2-Butanone	0.500	0.526	105	35 - 156	
1,2-Dichloroethane	0.500	0.495	99	73 - 127	
1,1-Dichloroethene	0.500	0.472	94	65 - 119	
Tetrachloroethene	0.500	0.427	85	78 - 131	
Trichloroethene	0.500	0.444	89	80 - 122	
Vinyl chloride	0.500	0.503	101	53 - 134	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

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 #: C0H110155

WO #: DHPDW119

BATCH: 0231136

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Benzene	0.500	ND	0.455	91	73 - 123	
2-Butanone	0.500	ND	0.540	108	10 - 151	
Carbon tetrachloride	0.500	ND	0.499	100C	61 - 143	
Chlorobenzene	0.500	ND	0.443	89C	70 - 122	
Tetrachloroethene	0.500	ND	0.424	85	70 - 130	
Trichloroethene	0.500	ND	0.432	86	58 - 141	
Chloroform	0.500	ND	0.491	98	65 - 131	
1,2-Dichloroethane	0.500	ND	0.496	99	67 - 132	
1,1-Dichloroethene	0.500	ND	0.469	94	57 - 138	
Vinyl chloride	0.500	ND	0.500	100	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:

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 #: COH110155

WO #: DHPDW11A

BATCH: 0231136

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
=====	=====	=====	=====	=====	=====	=====	=====
Benzene	0.500	0.496	99	8.6	20	73 - 123	
2-Butanone	0.500	0.592	118	9.2	34	10 - 151	
Carbon tetrachloride	0.500	0.546	109	9.0	20	61 - 143	
Chlorobenzene	0.500	0.476	95	7.2	20	70 - 122	
Chloroform	0.500	0.534	107	8.4	20	65 - 131	
1,2-Dichloroethane	0.500	0.536	107	7.6	20	67 - 132	
Trichloroethene	0.500	0.475	95	9.6	20	58 - 141	
Vinyl chloride	0.500	0.545	109	8.5	20	51 - 133	
1,1-Dichloroethene	0.500	0.512	102	8.7	20	57 - 138	
Tetrachloroethene	0.500	0.447	89	5.2	20	70 - 130	

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:

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SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DJ32V101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: WB40818.D

Lot Number: C0H120157

Date Analyzed: 08/18/00

Time Analyzed: 06:55

Matrix: SOLID

Date Extracted: 08/18/00

GC Column: ID: .00

Extraction Method: 1311/5030B

Instrument ID: HP4

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	LAB MS/MSD	DHPDW11A D	4081808.D	08/18/00	10:29
02	LAB MS/MSD	DHPDW119 S	4081807.D	08/18/00	10:05
03	INTRA-LAB QC	DHPDW301	4081802.D	08/18/00	08:07
04	DF/S1/0224/GRAB/005	DHQQN102	4081809.D	08/18/00	10:53
05	DF/S1/0224/SDC/024	DHQQQ102	4081810.D	08/18/00	11:17
06	DF/S1/0224/SDC/025	DHQQR102	4081811.D	08/18/00	11:41
07	CHECK SAMPLE	DJ34T101 C	4081801.D	08/18/00	07:44
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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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: C0H180000 106
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 08/11/00
Work Order: DJ32V101 Date Extracted: 08/18/00
Dilution factor: 1 Date Analyzed: 08/18/00

QC Batch: 0231136

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

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: COH120157

Lab File ID (Standard): CC40818

Date Analyzed: 08/18/00

Instrument ID: HP4

Time Analyzed: 0626

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ)	RT #	IS2 (DCB)	RT #	IS3	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	92479	10.12	154329	12.46	384594	6.99
UPPER LIMIT	184958	10.32	308658	12.66	769188	7.19
LOWER LIMIT	46240	9.92	77165	12.26	192297	6.79
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	91449	10.12	130570	12.45	399213	7.00
02 INTRA-LAB CH	93114	10.12	137831	12.46	394292	7.00
03 DF/S1/0224/G	83852	10.12	117974	12.46	369444	7.01
04 DF/S1/0224/S	82341	10.12	113527	12.46	364842	7.01
05 DF/S1/0224/S	81906	10.12	113808	12.46	358461	7.01
06						
07						
08						
09						
10						
11						
12						
13						
14						
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

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH120157 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/12/00

Work Order: DHQXN103

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/19/00

QC Batch: 0230349

Client Sample Id: DF/S1/0224/GRAB/005

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(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 I

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH120157 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/12/00

Work Order: DHQXQ103

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/19/00

QC Batch: 0230349

Client Sample Id: DF/S1/0224/SDC/024

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

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/12/00

Work Order: DHQXR103

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/19/00

QC Batch: 0230349

Client Sample Id: DF/S1/0224/SDC/025

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

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

Matrix: (soil/water) SOLID Lab Sample ID: C0H170000 349
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL Date Received: 08/11/00
Work Order: DJ213102 Date Extracted: 08/16/00
Dilution factor: 1 Date Analyzed: 08/18/00

QC Batch: 0230349

Client Sample Id: CHECK SAMPLE

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.200	
121-14-2	2,4-Dinitrotoluene	0.212	
118-74-1	Hexachlorobenzene	0.233	
87-68-3	Hexachlorobutadiene	0.209	
67-72-1	Hexachloroethane	0.200	
98-95-3	Nitrobenzene	0.206	
87-86-5	Pentachlorophenol	0.229	
110-86-1	Pyridine	0.222	
95-95-4	2,4,5-Trichlorophenol	0.222	
88-06-2	2,4,6-Trichlorophenol	0.217	
1319-77-3	Cresols (total)	0.648	

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0H120157

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC	51	45	84	44	51	75	00
02	DF/S1/0224/GRAB/005	60	64	92	51	59	84	00
03	DF/S1/0224/SDC/024	50	52	88	39	50	72	00
04	DF/S1/0224/SDC/025	68	71	90	55	66	87	00
05	METHOD BLK. DJ213101	67	72	80	63	70	81	00
06	LCS DJ213102	80	85	87	78	83	95	00
07	LAB MS/MSD D	53	50	79	45	52	76	00
08	LAB MS/MSD S	51	48	78	43	53	75	00

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = 2-Fluorobiphenyl
 SRG03 = Terphenyl-d14
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(32-112)
 (30-110)
 (10-144)
 (13-110)
 (10-113)
 (21-122)

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

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0H170000

WO #: DJ213102

BATCH: 0230349

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.200	80	28 - 110	
2,4-Dinitrotoluene	0.250	0.212	85	47 - 131	
Hexachlorobenzene	0.250	0.233	93	57 - 128	
Hexachlorobutadiene	0.250	0.209	83	36 - 116	
Hexachloroethane	0.250	0.200	80	30 - 110	
Nitrobenzene	0.250	0.206	82	45 - 130	
Pentachlorophenol	0.250	0.229	92	10 - 140	
Pyridine	0.250	0.222	89	10 - 148	
2,4,5-Trichlorophenol	0.250	0.222	89	41 - 125	
2,4,6-Trichlorophenol	0.250	0.217	87	46 - 135	
Cresols (total)	0.750	0.648	86	29 - 144	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

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 #: COH110155

WO #: DHPDW117

BATCH: 0230349

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene	0.250	ND	0.111	44	18 - 110	
2,4-Dinitrotoluene	0.250	ND	0.163	65	31 - 131	
Hexachlorobenzene	0.250	ND	0.191	77	36 - 132	
Hexachlorobutadiene	0.250	ND	0.106	43	18 - 116	
Hexachloroethane	0.250	ND	0.105	42	18 - 110	
Nitrobenzene	0.250	ND	0.131	52	10 - 211	
Pentachlorophenol	0.250	ND	0.182	73	10 - 140	
Pyridine	0.250	ND	0.127	51	10 - 148	
2,4,5-Trichlorophenol	0.250	ND	0.148	59	24 - 143	
2,4,6-Trichlorophenol	0.250	ND	0.142	57	36 - 135	
Cresols (total)	0.750	ND	0.426	57	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:

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 #: C0H110155

WO #: DHPDW118

BATCH: 0230349

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS		QUAL
					RPD	REC	
1,4-Dichlorobenzene	0.250	0.113	45	2.0	36	18 - 110	
2,4-Dinitrotoluene	0.250	0.160	64	2.2	32	31 - 131	
Hexachlorobenzene	0.250	0.195	78	2.0	22	36 - 132	
Hexachlorobutadiene	0.250	0.112	45	4.8	32	18 - 116	
Hexachloroethane	0.250	0.106	42	1.3	33	18 - 110	
Nitrobenzene	0.250	0.136	54	3.6	50	10 - 211	
Pentachlorophenol	0.250	0.184	73	1.1	56	10 - 140	
Pyridine	0.250	0.127	51	0.0	65	10 - 148	
2,4,5-Trichlorophenol	0.250	0.155	62	4.6	22	24 - 143	
2,4,6-Trichlorophenol	0.250	0.148	59	3.9	27	36 - 135	
Cresols (total)	0.750	0.410	55	3.9	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

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SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DJ213101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D0818004.

Lot Number: C0H120157

Date Analyzed: 08/18/00

Time Analyzed: 19:32

Matrix: SOLID

Date Extracted: 08/16/00

GC Column: HP5MS ID: .25

Extraction Method: 1311/3520C

Instrument ID: 721

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	DHPDW102	D0819002.	08/19/00	15:43
02	LAB MS/MSD	DHPDW117 S	D0819003.	08/19/00	16:12
03	LAB MS/MSD	DHPDW118 D	D0819004.	08/19/00	16:42
04	DF/S1/0224/GRAB/005	DHQQN103	D0819015.	08/19/00	22:05
05	DF/S1/0224/SDC/024	DHQQQ103	D0819016.	08/19/00	22:35
06	DF/S1/0224/SDC/025	DHQQXR103	D0819017.	08/19/00	23:04
07	CHECK SAMPLE	DJ213102 C	D0818005.	08/18/00	20:02
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: COH170000 349

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/11/00

Work Order: DJ213101

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0230349

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(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

667 34 FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0H120157

Lab File ID (Standard): D0818CCC

Date Analyzed: 08/18/00

Instrument ID: 721

Time Analyzed: 1729

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	96229	4.63	325569	5.86	172061	8.43
UPPER LIMIT	192458	5.13	651138	6.36	344122	8.93
LOWER LIMIT	48115	4.13	162785	5.36	86031	7.93
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	101500	4.63	368274	5.85	194048	8.42
02 LCS	93352	4.63	324310	5.85	177159	8.42
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
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 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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Lab Name: STL PITTSBURGH Contract:
Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0H120157
Lab File ID (Standard): D0818CCC Date Analyzed: 08/18/00
Instrument ID: 721 Time Analyzed: 1729

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	301209	11.31	258869	17.16	197368	20.12
UPPER LIMIT	602418	11.81	517738	17.66	394736	20.62
LOWER LIMIT	150605	10.81	129435	16.66	98684	19.62
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	341157	11.30	299661	17.14	256927	20.11
02 LCS	314510	11.30	290890	17.14	248509	20.11
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
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 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: COH120157

Lab File ID (Standard): D0819CCC

Date Analyzed: 08/19/00

Instrument ID: 721

Time Analyzed: 1444

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====	=====
12 HOUR STD		132827	4.62	443861	5.85	242512	8.42
UPPER LIMIT		265654	5.12	887722	6.35	485024	8.92
LOWER LIMIT		66414	4.12	221931	5.35	121256	7.92
=====	=====	=====	=====	=====	=====	=====	=====
CLIENT							
SAMPLE NO.							
=====	=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0224/G		140933	4.62	492348	5.84	268872	8.41
02 DF/S1/0224/S		142983	4.62	518296	5.84	298995	8.41
03 DF/S1/0224/S		133992	4.62	468996	5.84	261761	8.41
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
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 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0H120157

Lab File ID (Standard): D0819CCC

Date Analyzed: 08/19/00

Instrument ID: 721

Time Analyzed: 1444

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	436531	11.30	376616	17.14	297053	20.11
UPPER LIMIT	873062	11.80	753232	17.64	594106	20.61
LOWER LIMIT	218266	10.80	188308	16.64	148527	19.61
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0224/G	449735	11.29	350827	17.12	306962	20.09
02 DF/S1/0224/S	512724	11.29	398655	17.13	343151	20.10
03 DF/S1/0224/S	436079	11.29	343069	17.13	306331	20.10
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
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.

PESTICIDE SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/12/00

Work Order: DHQXN104

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229484

Client Sample Id: DF/S1/0224/GRAB/005

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

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UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/12/00

Work Order: DHQXQ104

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229484

Client Sample Id: DF/S1/0224/SDC/024

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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/12/00

Work Order: DHQXR104

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229484

Client Sample Id: DF/S1/0224/SDC/025

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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160000 484

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/11/00

Work Order: DJ0KG102

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229484

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00196	
76-44-8	Heptachlor	0.00216	
1024-57-3	Heptachlor epoxide	0.00221	
58-89-9	Lindane	0.00159	
72-43-5	Methoxychlor	0.00234	

FORM I

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

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Lab Code: QESPIT

QESSDG:

Lot #: C0H120157

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	~~INTRA-LAB QC~~	98	91	00
02	DF/S1/0224/GRAB/005	100	82	00
03	DF/S1/0224/SDC/024	97	87	00
04	DF/S1/0224/SDC/025	94	84	00
05	METHOD BLK. DJ0KG101	101	95	00
06	LCS DJ0KG102	96	84	00
07	~~LAB MS/MSD D~~	~~94~~	~~85~~	~~00~~
08	~~LAB MS/MSD S~~	~~96~~	~~84~~	~~00~~

lm
8/25/20SURROGATES

SRG01 = Decachlorobiphenyl
 SRG02 = Tetrachloro-m-xylene

QC LIMITS

(10-147)
 (39-130)

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

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0H160000

WO #: DJ0KG102

BATCH: 0229484

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Lindane	0.00250	0.00159	64	49 - 137	
Heptachlor	0.00250	0.00216	86	57 - 124	
Heptachlor epoxide	0.00250	0.00221	88	53 - 135	
Endrin	0.00250	0.00196	79	46 - 137	
Methoxychlor	0.00250	0.00234	93	12 - 154	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

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Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C0H110155

WO #: DHPE310M

BATCH: 0229484

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
Lindane	0.00250	ND	0.00160	64	30 - 148	
Heptachlor	0.00250	ND	0.00217	87	25 - 135	
Heptachlor epoxide	0.00250	ND	0.00221	88	38 - 138	
Endrin	0.00250	ND	0.00209	84	28 - 148	
Methoxychlor	0.00250	ND	0.00243	97	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 limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

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 #: C0H110155

WO #: DHPE310N

BATCH: 0229484

COMPOUND	SPIKE	MSD	MSD	QC LIMITS		QUAL
	ADDED (mg/L)	CONCENT. (mg/L)	% REC	% RPD	RPD REC	
Lindane	0.00250	0.00163	65	1.9	22 30 - 148	
Heptachlor	0.00250	0.00219	87	0.64	32 25 - 135	
Heptachlor epoxide	0.00250	0.00222	89	0.31	31 38 - 138	
Endrin	0.00250	0.00224	90	6.7	40 28 - 148	
Methoxychlor	0.00250	0.00245	98	0.73	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

DJ0KG101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

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Lab File ID: D-B5457.d

Lot Number: C0H120157

Matrix: SOLID

Extraction Method: 1311/3510

Date Extracted: 08/16/00

Date Analyzed(1): 08/18/00

Date Analyzed(2): N/A

Time Analyzed(1): 07:08

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 ~~LAB MS/MSD~~	~~DHPE310M S~~	~~08/18/00~~	~~N/A~~
02 ~~LAB MS/MSD~~	~~DHPE310N D~~	~~08/18/00~~	~~N/A~~
03 ~~INTRA-LAB QC~~	~~DHPE3103~~	~~08/18/00~~	~~N/A~~
04 DF/S1/0224/GRAB/005	DHGXN104	08/18/00	N/A
05 DF/S1/0224/SDC/024	DHGXQ104	08/18/00	N/A
06 DF/S1/0224/SDC/025	DHGXN104	08/18/00	N/A
07 CHECK SAMPLE	DJ0KG102 C	08/18/00	N/A
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

um 8/25/00

COMMENTS:

FORM IV

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UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160000 484

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/11/00

Work Order: DJ0KG101

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229484

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(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

HERBICIDE SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/12/00

Work Order: DHQXN105

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229487

Client Sample Id: DF/S1/0224/GRAB/005

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/12/00

Work Order: DHQXQ105

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229487

Client Sample Id: DF/S1/0224/SDC/024

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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 003

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/12/00

Work Order: DHQXR105

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229487

Client Sample Id: DF/S1/0224/SDC/025

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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

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

Lab Sample ID: COH160000 487

Sample WT/Vol: 100 / mL
Work Order: DJ0KX102
Dilution factor: 1

Date Received: 08/11/00
Date Extracted: 08/16/00
Date Analyzed: 08/18/00

QC Batch: 0229487

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.100	
93-72-1	2,4,5-TP (Silvex)	0.0282	

FORM I

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SW846 8151A SURROGATE RECOVERY

Lab Name: Severn-Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0H120157

	CLIENT ID.	SRG01	TOT OUT
	=====	=====	=====
01	INTRA-LAB QC	53	00
02	DF/S1/0224/GRAB/005	56	00
03	DF/S1/0224/SDC/024	55	00
04	DF/S1/0224/SDC/025	55	00
05	METHOD BLK. DJ0KX101	91	00
06	LCS DJ0KX102	84	00
07	LAB MS/MSD D	53	00
08	LAB MS/MSD S	65	00

m 8/25/00

SURROGATES
SRG01 = DCAA

QC LIMITS
(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

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Lab Code: QESPIT

SDG No:

Lot #: C0H160000

WO #: DJ0KX102

BATCH: 0229487

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	0.160	0.100	62	28 - 136	
2,4,5-TP (Silvex)	0.0400	0.0282	70	50 - 128	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COH110155

WO #: DHPE310P

BATCH: 0229487

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
2,4-D	0.160	ND	0.134	83	35- 133	
2,4,5-TP (Silvex)	0.0400	ND	0.0331	83	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

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Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COH110155

WO #: DHPE310Q

BATCH: 0229487

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD %	MSD %	QC LIMITS		QUAL
	(mg/L)	(mg/L)	REC	RPD	RPD	REC	
=====	=====	=====	=====	=====	=====	=====	=====
2,4-D	0.160	0.118	74	12	20	35 - 133	
2,4,5-TP (Silvex)	0.0400	0.0299	75	10	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 limitsSpike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

DJ0KX101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

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Lab File ID: A-A50220.

Lot Number: C0H120157

Matrix: SOLID

Extraction Method:

Date Extracted: 08/16/00

Date Analyzed(1): 08/18/00

Date Analyzed(2): N/A

Time Analyzed(1): 04:08

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 LAB MS/MSD	DHPE310P S	08/17/00	N/A
02 LAB MS/MSD	DHPE310Q D	08/17/00	N/A
03 INTRA LAB QC	DHPE3104	08/17/00	N/A
04 DF/S1/0224/GRAB/005	DHGXN105	08/18/00	N/A
05 DF/S1/0224/SDC/024	DHGXQ105	08/18/00	N/A
06 DF/S1/0224/SDC/025	DHGXN105	08/18/00	N/A
07 CHECK SAMPLE	DJ0KX102 C	08/18/00	N/A
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

11/8/25/00

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS.

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

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

Lab Sample ID: COH160000 487

Sample WT/Vol: 100 / mL
Work Order: DJ0KX101
Dilution factor: 1

Date Received: 08/11/00
Date Extracted: 08/16/00
Date Analyzed: 08/18/00

QC Batch: 0229487

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

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHQXN Client ID: DF/S1/0224/GRAB/005
Matrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162
Weight: 1.00 Volume: 100 Percent Moisture: 10.69

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	1.1	9.4		1	ICPST	8/15/00	13:34

Comments: Lot #: C0H120157 Sample #: 1

Version 4.10.2

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

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Metals Data Reporting Form

Sample Results

Lab Sample ID: DHQQQ Client ID: DF/S1/0224/SDC/024
Matrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162
Weight: 1.00 Volume: 100 Percent Moisture: 11.12

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	1.1	9.9		1	ICPST	8/15/00	13:51

Comments: Lot #: C0H120157 Sample #: 2

Version 4.10 2

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

Form 1 Equivalent

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHQXR Client ID: DF/S1/0224/SDC/025
Matrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162
Weight: 1.00 Volume: 100 Percent Moisture: 13.97

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	1.2	9.5		1	ICPST	8/15/00	13:55

Comments: Lot #: C0H120157 Sample #: 3

Version 4.10.2

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

Form 1 Equivalent

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STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00815B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 8/15/00 9:10 AM							
			Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	10	2.6	U						

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00815B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 8/15/00 10:02 AM	CCB2 8/15/00 10:52 AM	CCB3 8/15/00 11:42 AM	CCB4 8/15/00 12:32 PM	CCB5 8/15/00 1:22 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Arsenic	189.042	10	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00815B.ARC

Standard Source: _____

Standard ID: _____

			CCB6 8/15/00 2:03 PM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Arsenic	189 042	10	2.6	U				

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DHRK1BMatrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162Weight: 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	8/15/00	13:26

Comments: Lot # C0H120157

Version 4.10.2

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

Form 3 Equivalent

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Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DHQXNSOriginal Sample ID: DHQXNClient ID: DF/S1/0224/GRAB/005SMatrix: Soil Units: mg/kgPrep Date: 8/14/00 Prep Batch: 0227162Weight: 1.00 Volume: 100Percent Moisture: 10.69

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	9.4		211		223.94	90.0	1	1	ICPST	8/15/00	13:34	8/15/00	13:42

Comments: Lot #: C0H120157 Sample #: 1

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

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DHQXND

Original Sample ID: DHQXN Client ID: DF/S1/0224/GRAB/005D

Matrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162

Weight: 1.00 Volume: 100 Percent Moisture: 10.69

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	9.4		212		223.94	90.2	1	1	ICPST	8/15/00	13:34	8/15/00	13:47

Comments: Lot #: C0H120157 Sample # 1

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: DHGXNDMatrix Spike Sample ID: DHGXNS Client ID: DF/S1/0224/GRAB/005DMatrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162Weight: 1.00 Volume: 100 Percent Moisture: 10.69

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	211		212		0.2 %	1	1	ICPST	8/15/00	13:42	8/15/00	13:47

Comments: Lot #: C0H120157 Sample #: 1

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

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DHRK1CMatrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162Weight: 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	102.7		80-120	1	ICPST	8/15/00	13:30

Comments: Lot #: C0H120157

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

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Sample Results

Lab Sample ID: DHGXNT Client ID: DF/S1/0224/GRAB/005
Matrix: TCLP Units: mg/L Prep Date: 8/16/00 Prep Batch: 0228339
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000072	0.00020	0.000072	U	1	CVAA	8/16/00	10:25

Comments: Lot #: C0H120157 Sample #: 1

Version 4.10.2

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

Form 1 Equivalent

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STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHQQQT Client ID: DF/S1/0224/SDC/024
Matrix: TCLP Units: mg/L Prep Date: 8/16/00 Prep Batch: 0228339
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000072	0.00020	0.000072	U	1	CVAA	8/16/00	10:26

Comments: Lot #: COH120157 Sample #: 2

Version 4.10.2

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

Form 1 Equivalent

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHQXRT Client ID: DF/S1/0224/SDC/025
Matrix: TCLP Units: mg/L Prep Date: 8/16/00 Prep Batch: 0228339
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000072	0.00020	0.000072	U	1	CVAA	8/16/00	10:28

Comments: Lot #: C0H120157 Sample #: 3

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHGXNTClient ID: DF/S1/0224/GRAB/005Matrix: TCLP Units: mg/LPrep Date: 8/16/00 Prep Batch: 0229104Weight: NA Volume: 50Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.043	0.50	0.22	B	1	ICP	8/16/00	15:30
Barium	493.41	0.00044	10.0	1.2	B	1	ICP	8/16/00	15:30
Cadmium	228.80	0.0038	0.10	0.0038	U	1	ICP	8/16/00	15:30
Chromium	267.72	0.0039	0.50	0.034	B	1	ICP	8/16/00	15:30
Lead	220.35	0.033	0.50	0.036	B	1	ICP	8/16/00	15:30
Selenium	196.03	0.053	0.25	0.053	U	1	ICP	8/16/00	15:30
Silver	328.07	0.0028	0.50	0.0028	U	1	ICP	8/16/00	15:30

Comments: Lot # C0H120157 Sample # 1

Version 4.10.2

U Result is less than the IDL

B Result is between IDL and RL

Form 1 Equivalent

STL-Pittsburgh
Metals Data Reporting Form

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Sample Results

Lab Sample ID: DHQXQT Client ID: DF/S1/0224/SDC/024
Matrix: TCLP Units: mg/L Prep Date: 8/16/00 Prep Batch: 0229104
Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.043	0.50	0.16	B	1	ICP	8/16/00	15:33
Barium	493.41	0.00044	10.0	1.1	B	1	ICP	8/16/00	15:33
Cadmium	228.80	0.0038	0.10	0.0038	U	1	ICP	8/16/00	15:33
Chromium	267.72	0.0039	0.50	0.0082	B	1	ICP	8/16/00	15:33
Lead	220.35	0.033	0.50	0.035	B	1	ICP	8/16/00	15:33
Selenium	196.03	0.053	0.25	0.053	U	1	ICP	8/16/00	15:33
Silver	328.07	0.0028	0.50	0.0028	U	1	ICP	8/16/00	15:33

Comments: Lot #: C0H120157 Sample #: 2

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHQXRT Client ID: DF/S1/0224/SDC/025
 Matrix: TCLP Units: mg/L Prep Date: 8/16/00 Prep Batch: 0229104
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.043	0.50	0.19	B	1	ICP	8/16/00	15:36
Barium	493.41	0.00044	10.0	1.0	B	1	ICP	8/16/00	15:36
Cadmium	228.80	0.0038	0.10	0.0038	U	1	ICP	8/16/00	15:36
Chromium	267.72	0.0039	0.50	0.0039	U	1	ICP	8/16/00	15:36
Lead	220.35	0.033	0.50	0.033	U	1	ICP	8/16/00	15:36
Selenium	196.03	0.053	0.25	0.053	U	1	ICP	8/16/00	15:36
Silver	328.07	0.0028	0.50	0.0028	U	1	ICP	8/16/00	15:36

Comments: Lot #: C0H120157 Sample #: 3

Version 4.10.2

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

Form 1 Equivalent

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0816HGA.PRN

Standard Source: _____

Standard ID: _____

			ICB1 8/16/00 9:49 AM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U				

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STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00816B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 8/16/00 11:54 AM							
			Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	193.696	500	42.6	U						
Barium	493.409	10000	0.4	U						
Cadmium	228.802	100	3.8	U						
Chromium	267.716	500	3.9	U						
Lead	220.353	500	33.0	U						
Selenium	196.026	250	52.5	U						
Silver	328.068	500	2.8	U						

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0816HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 8/16/00 9:52 AM		CCB2 8/16/00 10:12 AM		CCB3 8/16/00 10:33 AM			
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U	0.1	U	0.1	U		

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00816B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 8/16/00 12:24 PM		CCB2 8/16/00 1:02 PM		CCB3 8/16/00 1:40 PM		CCB4 8/16/00 2:22 PM		CCB5 8/16/00 3:00 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	193.696	500	42.6	U	42.6	U	42.6	U	42.6	U	42.6	U
Barium	493.409	10000	0.6	B	0.4	U	0.7	B	0.7	B	0.8	B
Cadmium	228.802	100	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U
Chromium	267.716	500	3.9	U	3.9	U	3.9	U	3.9	U	3.9	U
Lead	220.353	500	33.0	U	36.8	B	33.0	U	33.0	U	33.0	U
Selenium	196.026	250	52.5	U	52.5	U	52.5	U	52.5	U	52.5	U
Silver	328.068	500	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U

STL-Pittsburgh
Metals Data Reporting Form

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Continuing Calibration Blank Results

Instrument: ICP

Units: ug/L

Chart Number: J00816B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 8/16/00 3:42 PM							
			Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	193.696	500	42.6	U						
Barium	493.409	10000	0.8	B						
Cadmium	228.802	100	3.8	U						
Chromium	267.716	500	3.9	U						
Lead	220.353	500	33.0	U						
Selenium	196.026	250	52.5	U						
Silver	328.068	500	2.8	U						

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DHVFXTMatrix: TCLP Units: mg/L Prep Date: 8/16/00 Prep Batch: 0228339Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000072	0.00020	0.000072	U	1	CVAA	8/16/00	9:57

Comments: Lot #: C0H120157

Version 4.10.2

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

Form 3 Equivalent

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DHVJ0BTMatrix: TCLP Units: mg/L Prep Date: 8/16/00 Prep Batch: 0228339Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000072	0.00020	0.000072	U	1	CVAA	8/16/00	9:54

Comments: Lot #: C0H120157

Version 4.10.2

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DHVFXBTMatrix: TCLP Units: mg/L Prep Date: 8/16/00 Prep Batch: 0229104Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.696	0.043	0.50	0.11	B	1	ICP	8/16/00	14:29
Barium	493.409	0.00044	10.0	0.00092	B	1	ICP	8/16/00	14:29
Cadmium	228.802	0.0038	0.10	0.0038	U	1	ICP	8/16/00	14:29
Chromium	267.716	0.0039	0.50	0.0039	U	1	ICP	8/16/00	14:29
Lead	220.353	0.033	0.50	0.033	U	1	ICP	8/16/00	14:29
Selenium	196.026	0.053	0.25	0.053	U	1	ICP	8/16/00	14:29
Silver	328.068	0.0028	0.50	0.0028	U	1	ICP	8/16/00	14:29

Comments: Lot #: C0H120157

Version 4.10.2

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

Form 3 Equivalent

STL-Pittsburgh
Metals Data Reporting Form

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Preparation Blank Results

Lab Sample ID: DHWJKBT

Matrix: TCLP Units: mg/L Prep Date: 8/16/00 Prep Batch: 0229104

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.696	0.043	0.50	0.043	U	1	ICP	8/16/00	14:26
Barium	493.409	0.00044	10.0	0.00056	B	1	ICP	8/16/00	14:26
Cadmium	228.802	0.0038	0.10	0.0038	U	1	ICP	8/16/00	14:26
Chromium	267.716	0.0039	0.50	0.0039	U	1	ICP	8/16/00	14:26
Lead	220.353	0.033	0.50	0.033	U	1	ICP	8/16/00	14:26
Selenium	196.026	0.053	0.25	0.053	U	1	ICP	8/16/00	14:26
Silver	328.068	0.0028	0.50	0.0028	U	1	ICP	8/16/00	14:26

Comments: Lot #: C0H120157

Version 4.10.2

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

Form 3 Equivalent

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STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DHVJ0CTMatrix: TCLP Units: mg/L Prep Date: 8/16/00 Prep Batch: 0228339Weight: 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	0.0025	101.6		80-120	1	CVAA	8/16/00	9:55

Comments: Lot #: C0H120157

Version 4.10.2

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

Form 7 Equivalent

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DHWJKCTMatrix: TCLP Units: mg/L Prep Date: 8/16/00 Prep Batch: 0229104Weight: 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	105.8		80-120	1	ICP	8/16/00	14:32
Barium	493.409	2.0	1.8	90.6	B	80-120	1	ICP	8/16/00	14:32
Cadmium	228.802	0.050	0.048	95.6	B	80-120	1	ICP	8/16/00	14:32
Chromium	267.716	0.20	0.19	96.2	B	80-120	1	ICP	8/16/00	14:32
Lead	220.353	0.50	0.49	97.8	B	80-120	1	ICP	8/16/00	14:32
Selenium	196.026	2.0	2.1	103.4		80-120	1	ICP	8/16/00	14:32
Silver	328.068	0.050	0.047	93.8	B	80-120	1	ICP	8/16/00	14:32

Comments: Lot #: C0H120157

Version 4.10.2

U Result is less than the IDL

B Result is between IDL and RL

Form 7 Equivalent

GENERAL CHEMISTRY SUMMARY

Client Sample ID: DF/S1/0224/GRAB/005

General Chemistry

Lot-Sample #...: C0H120157-001 Work Order #...: DHQXN Matrix.....: SOLID
 Date Sampled...: 08/11/00 Date Received...: 08/12/00
 % Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.8		No Units	SW846 9045C	08/12/00	0225154
				Dilution Factor: 1	MS Run #: 0225048	
Ignitability	NO	--	No Units	SW846 SECTION 7.1	08/14/00	0227199
				Dilution Factor: 1	MS Run #: 0227060	
Percent Solids	89.3		%	MCAWW 160.3 MOD	08/14-08/15/00	0227275
				Dilution Factor: 1	MS Run #: 0233011	
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	08/17/00	0230409
				Dilution Factor: 1	MS Run #: 0230212	
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	08/17/00	0230406
				Dilution Factor: 1	MS Run #: 0230210	

UXB INTERNATIONAL

Client Sample ID: DF/S1/0224/SDC/024

General Chemistry

Lot-Sample #...: C0H120157-002 Work Order #...: DHQXQ Matrix.....: SOLID
 Date Sampled...: 08/11/00 Date Received...: 08/12/00
 % Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.6		No Units	SW846 9045C	08/12/00	0225154
			Dilution Factor: 1	MS Run #.....: 0225048		
Ignitability	NO	--	No Units	SW846 SECTION 7.1	08/14/00	0227199
			Dilution Factor: 1	MS Run #.....: 0227060		
Percent Solids	88.9		%	MCAWW 160.3 MOD	08/14-08/15/00	0227275
			Dilution Factor: 1	MS Run #.....: 0233011		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	08/17/00	0230409
			Dilution Factor: 1	MS Run #.....: 0230212		
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	08/17/00	0230406
			Dilution Factor: 1	MS Run #.....: 0230210		

Client Sample ID: DF/S1/0224/SDC/025

General Chemistry

Lot-Sample #...: C0H120157-003

Work Order #...: DHQXR

Matrix.....: SOLID

Date Sampled...: 08/11/00

Date Received...: 08/12/00

% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.7		No Units	SW846 9045C	08/12/00	0225154
			Dilution Factor: 1	MS Run #.....: 0225048		
Ignitability	NO	--	No Units	SW846 SECTION 7.1	08/14/00	0227199
			Dilution Factor: 1	MS Run #.....: 0227060		
Percent Solids	86.0		%	MCAWW 160.3 MOD	08/14-08/15/00	0227275
			Dilution Factor: 1	MS Run #.....: 0233011		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	08/17/00	0230409
			Dilution Factor: 1	MS Run #.....: 0230212		
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	08/17/00	0230406
			Dilution Factor: 1	MS Run #.....: 0230210		

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0H120157

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Reactive Cyanide	ND	Work Order #: DJ2J4101 200	mg/kg	MB Lot-Sample #: A0H170000-409 SW846 7.3.3	08/17/00	0230409
		Dilution Factor: 1				
Reactive Sulfide	ND	Work Order #: DJ2H1101 200	mg/kg	MB Lot-Sample #: A0H170000-406 SW846 7.3.4	08/17/00	0230406
		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 #...: C0H120157

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	101	Work Order #: DHRDA101 (85 - 115) Dilution Factor: 1	LCS Lot-Sample#: C0H120000-154 SW846 9045C	08/12/00	0225154

NOTE(S) :

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: COH120157

Work Order #...: DHM03-SMP
DHM03-DUP

Matrix.....: SOLID

Date Sampled...: 08/09/00

Date Received...: 08/10/00

% Moisture.....: 69

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Reactive Cyanide	ND	ND	mg/kg	0.0	(0-20)	SD Lot-Sample #: COH100137-005 SW846 7.3.3	08/17/00	0230409
Dilution Factor: 1								
Prep Date.....: 0230212 Analysis Date...: Prep Batch #...:								
Reactive Sulfide	ND	ND	mg/kg	0	(0-20)	SD Lot-Sample #: COH100137-005 SW846 7.3.4	08/17/00	0230406
Dilution Factor: 1								
Prep Date.....: 0230210 Analysis Date...: Prep Batch #...:								

667 97

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Ignitability						SD Lot-Sample #:	COH110155-001	
.			No Units	0	(0-0.0)	SW846 SECTION 7.1	08/14/00	0227199
			Dilution Factor: 1					
			Prep Date.....: 0227060		Analysis Date...		Prep Batch #....:	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: C0H120157

Work Order #....: DHQR0-SMP
DHQR0-DUP

Matrix.....: SOLID

Date Sampled....: 08/11/00

Date Received...: 08/12/00

% Moisture.....: 37

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	63.1	51.9	%	19	(0-20)	SD Lot-Sample #: C0H120140-001 MCAWW 160.3 MOD	08/14-08/15/00	0227275
Dilution Factor: 1								
Prep Date.....: 0233011 Analysis Date...: Prep Batch #....:								
pH	6.3	6.2	No Units	1.4	(0-20)	SD Lot-Sample #: C0H120140-001 SW846 9045C	08/12/00	0225154
Dilution Factor: 1								
Prep Date.....: 0225048 Analysis Date...: Prep Batch #....:								

GC/MS VOLATILE DATA

667 100

GC/MS VOLATILE
QC SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0H120157

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC RE-2	89	99	112	102	00
02	DF/S1/0224/GRAB/005	89	94	108	98	00
03	DF/S1/0224/SDC/024	90	95	108	100	00
04	DF/S1/0224/SDC/025	92	94	113	101	00
05	METHOD BLK. DJ32V101	87	98	107	102	00
06	LCS DJ34T101	94	102	110	103	00
07	LAB MS/MSD D	95	97	104	98	00
08	LAB MS/MSD S	96	103	112	107	00

SURROGATES

SRG01 = 4-Bromofluorobenzene
 SRG02 = Dibromofluoromethane
 SRG03 = 1,2-Dichloroethane-d4
 SRG04 = Toluene-d8

QC LIMITS

(80-114)
 (78-110)
 (77-120)
 (78-111)

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

FORM II

667 102

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: COH180000

WO #: DJ34T101

BATCH: 0231136

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Benzene	0.500	0.463	93	79 - 116	
2-Butanone	0.500	0.526	105	35 - 156	
Carbon tetrachloride	0.500	0.503	101	72 - 133	
Chlorobenzene	0.500	0.446	89	81 - 115	
Chloroform	0.500	0.493	99	81 - 122	
1,2-Dichloroethane	0.500	0.495	99	73 - 127	
1,1-Dichloroethene	0.500	0.472	94	65 - 119	
Tetrachloroethene	0.500	0.427	85	78 - 131	
Trichloroethene	0.500	0.444	89	80 - 122	
Vinyl chloride	0.500	0.503	101	53 - 134	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

STL Pittsburgh

1004

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

667 103

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 #: C0H110155

WO #: DHPDW119

BATCH: 0231136

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Benzene	0.500	ND	0.455	91	73 - 123	
2-Butanone	0.500	ND	0.540	108	10 - 151	
Carbon tetrachloride	0.500	ND	0.499	100C	61 - 143	
Chlorobenzene	0.500	ND	0.443	89C	70 - 122	
Chloroform	0.500	ND	0.491	98	65 - 131	
1,2-Dichloroethane	0.500	ND	0.496	99	67 - 132	
1,1-Dichloroethene	0.500	ND	0.469	94	57 - 138	
Tetrachloroethene	0.500	ND	0.424	85	70 - 130	
Trichloroethene	0.500	ND	0.432	86	58 - 141	
Vinyl chloride	0.500	ND	0.500	100	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 limitsSpike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

667 104

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 #: C0H110155

WO #: DHPDW11A

BATCH: 0231136

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Benzene	0.500	0.496	99	8.6	20	73 - 123	
2-Butanone	0.500	0.592	118	9.2	34	10 - 151	
Carbon tetrachloride	0.500	0.546	109	9.0	20	61 - 143	
Chlorobenzene	0.500	0.476	95	7.2	20	70 - 122	
Chloroform	0.500	0.534	107	8.4	20	65 - 131	
1,2-Dichloroethane	0.500	0.536	107	7.6	20	67 - 132	
1,1-Dichloroethene	0.500	0.512	102	8.7	20	57 - 138	
Tetrachloroethene	0.500	0.447	89	5.2	20	70 - 130	
Trichloroethene	0.500	0.475	95	9.6	20	58 - 141	
Vinyl chloride	0.500	0.545	109	8.5	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

STL Pittsburgh

1006

SW846 8260B METHOD BLANK SUMMARY

DJ32V101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: WB40818.D

Lot Number: C0H120157

Date Analyzed: 08/18/00

Time Analyzed: 06:55

Matrix: SOLID

Date Extracted: 08/18/00

GC Column: ID: .00

Extraction Method: 1311/5030B

Instrument ID: HP4

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 LAB MS/MSD	DHPDW11A D	4081808.D	08/18/00	10:29
02 LAB MS/MSD	DHPDW119 S	4081807.D	08/18/00	10:05
03 INTRA-LAB QC	DHPDW301	4081802.D	08/18/00	08:07
04 DF/S1/0224/GRAB/005	DHQXN102	4081809.D	08/18/00	10:53
05 DF/S1/0224/SDC/024	DHQXQ102	4081810.D	08/18/00	11:17
06 DF/S1/0224/SDC/025	DHQXR102	4081811.D	08/18/00	11:41
07 CHECK SAMPLE	DJ34T101 C	4081801.D	08/18/00	07:44
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

667 106
Lab Name: STL-PITTSBURGH Contract:

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

Lab File ID: CF40810 BFB Injection Date: 08/10/00

Instrument ID: HP4 BFB Injection Time: 1200

GC Column: DB624 20M ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	42.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.4 (0.4)1
174	50.0 - 100.0% of mass 95	82.0
175	5.0 - 9.0% of mass 174	5.6 (6.9)1
176	95.0 - 101.0% of mass 174	81.8 (99.8)1
177	5.0 - 9.0% of mass 176	5.8 (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	3C40810	08/10/00	1235
02	VSTD20	VSTD20	1B40810	08/10/00	1341
03	VSTD100	VSTD100	1D40810	08/10/00	1406
04	VSTD200	VSTD200	1E40810	08/10/00	1435
05	VSTD5	VSTD5	2A40810	08/10/00	1611
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

667 107

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: COH120157

Lab File ID: BF40818

BFB Injection Date: 08/18/00

Instrument ID: HP4

BFB Injection Time: 0552

GC Column: DB624 20M ID: 0.18 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.9
75	30.0 - 60.0% of mass 95	41.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	74.3
175	5.0 - 9.0% of mass 174	5.3 (7.2)1
176	95.0 - 101.0% of mass 174	73.1 (98.4)1
177	5.0 - 9.0% of mass 176	5.2 (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	CC40818	08/18/00	0626
02	INTRA-LAB BL	DJ32V101	WB40818	08/18/00	0655
03	INTRA-LAB CH	DJ34T101	4081801	08/18/00	0744
04	DF/S1/0224/G	DHQXN102	4081809	08/18/00	1053
05	DF/S1/0224/S	DHQXQ102	4081810	08/18/00	1117
06	DF/S1/0224/S	DHQXR102	4081811	08/18/00	1141
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

667 108 8A VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: COH120157

Lab File ID (Standard): CC40818

Date Analyzed: 08/18/00

Instrument ID: HP4

Time Analyzed: 0626

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DCB) AREA #	RT #	IS3 AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	92479	10.12	154329	12.46	384594	6.99
UPPER LIMIT	184958	10.32	308658	12.66	769188	7.19
LOWER LIMIT	46240	9.92	77165	12.26	192297	6.79
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	91449	10.12	130570	12.45	399213	7.00
02 INTRA-LAB CH	93114	10.12	137831	12.46	394292	7.00
03 DF/S1/0224/G	83852	10.12	117974	12.46	369444	7.01
04 DF/S1/0224/S	82341	10.12	113527	12.46	364842	7.01
05 DF/S1/0224/S	81906	10.12	113808	12.46	358461	7.01
06						
07						
08						
09						
10						
11						
12						
13						
14						
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.

667 109

**GC/MS VOLATILE
SAMPLE DATA**

667 110

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/12/00

Work Order: DHQXN102

Date Extracted: 08/18/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0231136

Client Sample Id: DF/S1/0224/GRAB/005

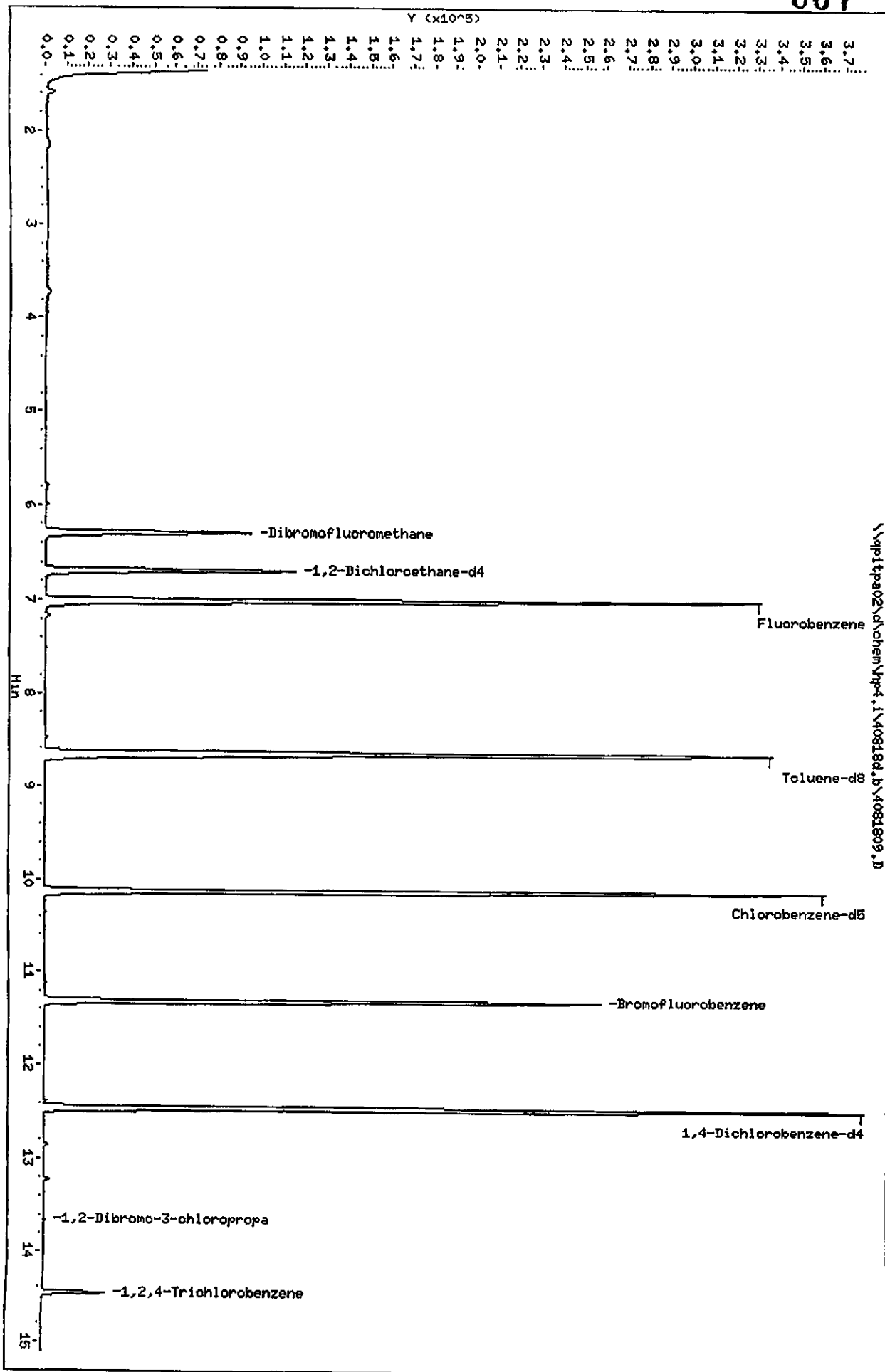
		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene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

667

111

Data File: \\ppltpa02\chem\hpa4.1\40818d.b\4081809.D
Date: 18-AUG-2000 10:53
Client ID: HF/SI/0224/GRB/006
Sample Info: c0h120157-001 (1ml/10ml)/5ml
Volume Injected (ul): 5.0
Column phase: DB 624

Instrument: hpa4.i
Operator: 10039
Column diameter: 0.18



667 112

Data File: \\qpitpa02\d\chem\hp4.i\40818d.b\4081809.D
 Report Date: 18-Aug-2000 11:25

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40818d.b\4081809.D
 Lab Smp Id: DHQXN102 Client Smp ID: DF/S1/0224/GRAB/005
 Inj Date : 18-AUG-2000 10:53 MS Autotune Date: 08-AUG-1996 10:00
 Operator : 10099 Inst ID: hp4.i
 Smp Info : c0h120157-001 (1ml/10ml)/5ml
 Misc Info : dhqxn102,40818d.b,8260bh2o.M
 Comment :
 Method : \\qpitpa02\d\chem\hp4.i\40818d.b\8260bh2o.m
 Meth Date : 18-Aug-2000 06:59 gordonk Quant Type: ISTD
 Cal Date : 10-AUG-2000 12:35 Cal File: 3C40810.D
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC073

Compound Sublist: tclp.sub

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.006	6.994	(1.000)	369444	250.000	
* 69 Chlorobenzene-d5	119	10.124	10.118	(1.000)	83852	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.459	12.459	(1.000)	117974	250.000	
\$ 43 1,2-Dichloroethane-d4	65	6.694	6.682	(0.955)	89738	268.772	53.75
\$ 39 Dibromofluoromethane	113	6.291	6.279	(0.898)	73060	236.141	47.23
\$ 59 Toluene-d8	98	8.650	8.645	(0.854)	323119	245.429	49.08
\$ 80 Bromofluorobenzene	95	11.310	11.304	(1.117)	113529	223.634	44.73
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.					

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Compounds	QUANT SIG	CONCENTRATIONS				
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL
	MASS					(ng) (UG/L)
-----	----	--	-----	-----	-----	-----
65 Tetrachloroethene	164					
70 Chlorobenzene	112					

Compound Not Detected.
 Compound Not Detected.

667 114

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/12/00

Work Order: DHQXQ102

Date Extracted: 08/18/00

Dilution factor: 1

Date Analyzed: 08/18/00

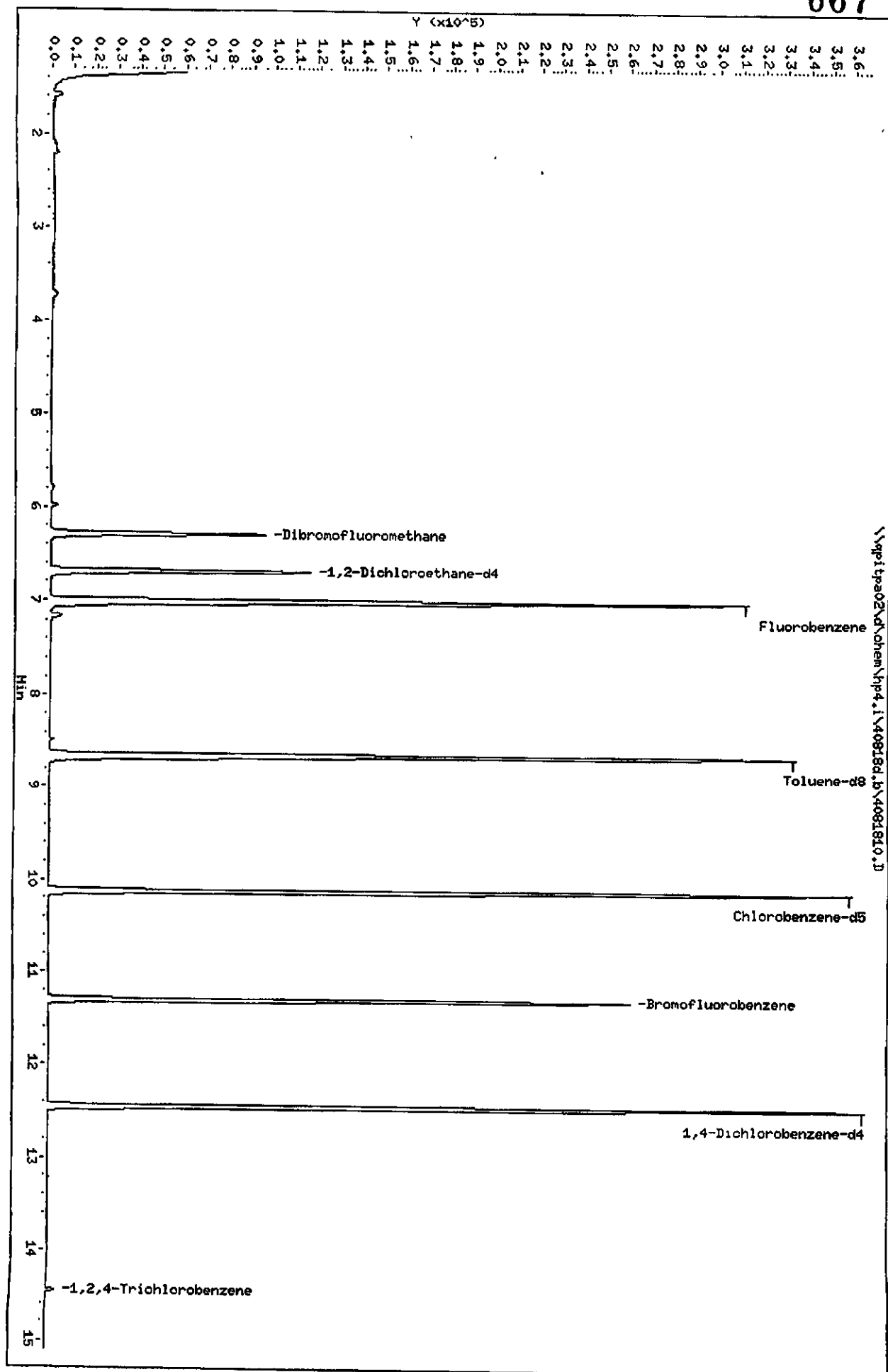
QC Batch: 0231136

Client Sample Id: DF/S1/0224/SDC/024

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

Data File: \\gpi02\chem\hp4.i\40818d.b\4081810.D
Date: 18-AUG-2000 11:17
Client ID:
Sample Info: c0h120187-002 (1ml/10ml)/Bm1
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp4.i
Operator: 10099
Column diameter: 0.18



667 116

Data File: \\qpitpa02\d\chem\hp4.i\40818d.b\4081810.D
 Report Date: 18-Aug-2000 11:48

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40818d.b\4081810.D

Lab Smp Id:

Inj Date : 18-AUG-2000 11:17

MS Autotune Date: 08-AUG-1996 10:00

Operator : 10099

Inst ID: hp4.i

Smp Info : c0h120157-002 (1ml/10ml)/5ml

Misc Info : ,40818d.b,8260bh2o.M

Comment :

Method : \\qpitpa02\d\chem\hp4.i\40818d.b\8260bh2o.m

Meth Date : 18-Aug-2000 06:59 gordonk

Quant Type: ISTD

Cal Date : 10-AUG-2000 12:35

Cal File: 3C40810.D

Als bottle: 14

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: tclp.sub

Target Version: 4.04

Processing Host: PITPC073

KLG
8/18/00

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.007	6.994	(1.000)	364842	250.000		
* 69 Chlorobenzene-d5	119	10.124	10.118	(1.000)	82341	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.460	12.459	(1.000)	113527	250.000		
\$ 43 1,2-Dichloroethane-d4	65	6.695	6.682	(0.956)	88808	269.342	53.87	
\$ 39 Dibromofluoromethane	113	6.291	6.279	(0.898)	72550	237.450	47.49	
\$ 59 Toluene-d8	98	8.651	8.645	(0.854)	323563	250.276	50.06	
\$ 80 Bromofluorobenzene	95	11.310	11.304	(1.117)	111811	224.292	44.86	
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.			

667 117

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(UG/L)
*****	****	==	*****	*****	*****	*****	*****
65 Tetrachloroethene	164				Compound Not Detected.		
70 Chlorobenzene	112				Compound Not Detected.		

667 118

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/12/00

Work Order: DHQXR102

Date Extracted: 08/18/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0231136

Client Sample Id: DF/S1/0224/SDC/025

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

Data File: \\ppitpa02\chem\hp4.1\40818d.b\4081811.D

Date: 18-AUG-2000 11:41

Client ID:

Sample Info: con120187-003 (1ml/10ml)/5ml

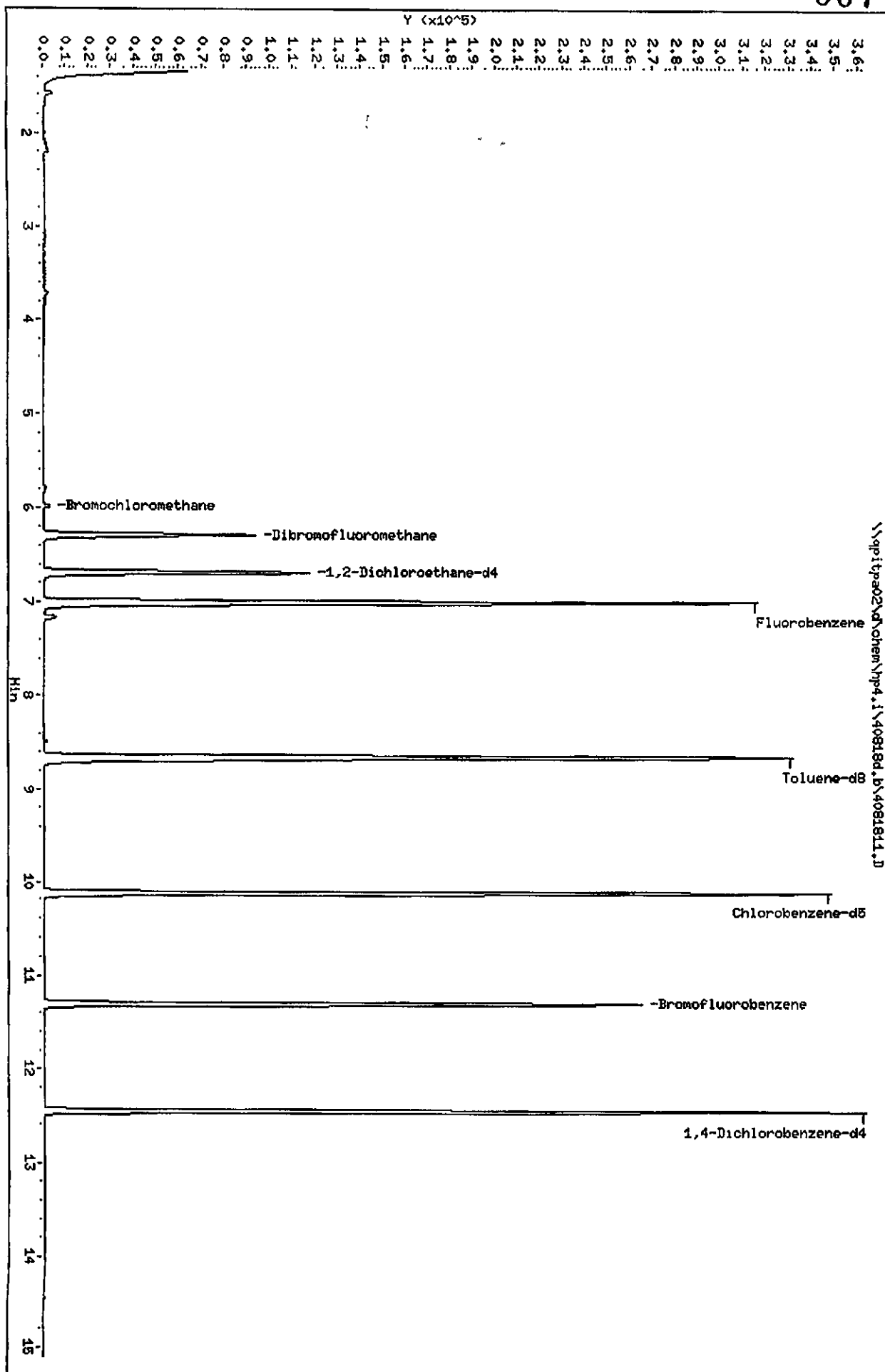
Volume Injected (ul): 5.0

Column phase: DB 624

Instrument: hp4.1

Operator: 10099

Column diameter: 0.18



STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40818d.b\4081811.D

Lab Smp Id:

Inj Date : 18-AUG-2000 11:41

MS Autotune Date: 08-AUG-1996 10:00

Operator : 10099

Inst ID: hp4.i

Smp Info : c0h120157-003 (1ml/10ml)/5ml

Misc Info : ,40818d.b,8260bh2o.M

Comment :

Method : \\qpitpa02\d\chem\hp4.i\40818d.b\8260bh2o.m

Meth Date : 18-Aug-2000 06:59 gordonk

Quant Type: ISTD

Cal Date : 10-AUG-2000 12:35

Cal File: 3C40810.D

Als bottle: 15

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: tclp.sub

Target Version: 4.04

Processing Host: PITPC073

KLG
8/18/00

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.006	6.994	(1.000)	358461	250.000	
* 69 Chlorobenzene-d5	119	10.124	10.118	(1.000)	81906	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.460	12.459	(1.000)	113808	250.000	
\$ 43 1,2-Dichloroethane-d4	65	6.695	6.682	(0.956)	91774	283.292	56.66
\$ 39 Dibromofluoromethane	113	6.291	6.279	(0.898)	70721	235.584	47.12
\$ 59 Toluene-d8	98	8.651	8.645	(0.854)	324195	252.097	50.42
\$ 80 Bromofluorobenzene	95	11.310	11.304	(1.117)	113607	229.105	45.82
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.					

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Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(UG/L)
-----	----	--	-----	-----	-----	-----	-----
65 Tetrachloroethene	164				Compound Not Detected		
70 Chlorobenzene	112				Compound Not Detected.		

667 122

GC/MS VOLATILE
CALIBRATION DATA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL-PITTSBURGH

Contract:

667 123

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP4

Calibration Date(s): 08/10/00 08/10/00

Heated Purge: (Y/N) N

Calibration Time(s): 1235 1611

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID: RRF5 =2A40810 RRF20 =1B40810 RRF50 =3C40810 RRF100=1D40810 RRF200=1E40810							
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.270	0.232	0.256	0.246	0.242	0.249	5.8
Chloromethane	0.409	0.330	0.353	0.366	0.338	0.359	8.7*
Vinyl Chloride	0.348	0.275	0.312	0.317	0.302	0.311	8.5
Bromomethane	0.054	0.044	0.049	0.051	0.042	0.048	10.6
Chloroethane	0.067	0.052	0.060	0.060	0.053	0.058	10.6
Trichlorofluoromethane	0.130	0.262	0.133	0.130	0.115	0.154	39.4
1,1-Dichloroethene	0.225	0.168	0.201	0.201	0.197	0.198	10.2
Methylene Chloride	0.290	0.216	0.251	0.254	0.247	0.252	10.4
trans-1,2-Dichloroethene	0.286	0.217	0.254	0.262	0.258	0.255	9.7
1,1-Dichloroethane	0.508	0.380	0.430	0.443	0.433	0.439	10.5*
cis-1,2-dichloroethene	0.315	0.242	0.283	0.291	0.281	0.282	9.3
Chloroform	0.430	0.325	0.372	0.379	0.368	0.375	9.9
Bromochloromethane	0.146	0.113	0.128	0.133	0.130	0.130	9.2
1,1,1-Trichloroethane	0.351	0.276	0.322	0.330	0.323	0.320	8.5
Carbon Tetrachloride	0.273	0.221	0.266	0.268	0.266	0.259	8.1
1,2-Dichloroethane	0.343	0.255	0.285	0.289	0.273	0.289	11.4
Benzene	1.249	0.930	1.065	1.092	1.032	1.074	10.8
Trichloroethene	0.319	0.244	0.280	0.291	0.281	0.283	9.5
1,2-Dichloropropane	0.318	0.239	0.268	0.278	0.266	0.274	10.5
Bromodichloromethane	0.281	0.229	0.265	0.280	0.271	0.265	8.1
cis-1,3-Dichloropropene	0.358	0.297	0.351	0.372	0.356	0.347	8.3
Toluene	5.700	4.373	4.724	4.867	4.519	4.837	10.7
trans-1,3-Dichloropropene	1.430	1.230	1.353	1.468	1.436	1.383	6.9
1,1,2-Trichloroethane	1.053	0.867	0.908	0.948	0.902	0.936	7.7
Tetrachloroethene	1.191	0.837	0.914	0.941	0.900	0.957	14.3
Dibromochloromethane	0.833	0.722	0.856	0.932	0.797	0.828	9.3
Chlorobenzene	3.900	2.895	3.224	3.306	3.080	3.281	11.6*
Ethylbenzene	2.114	1.598	1.789	1.829	1.714	1.809	10.6
Styrene	4.024	3.116	3.723	3.815	3.477	3.631	9.6
Bromoform	0.434	0.398	0.520	0.596	0.602	0.510	18.2*
1,1,2,2-Tetrachloroethane	0.786	0.637	0.688	0.712	0.680	0.701	7.8*
1,3-Dichlorobenzene	1.929	1.407	1.603	1.643	1.429	1.602	13.1
1,4-Dichlorobenzene	1.971	1.423	1.582	1.626	1.531	1.627	12.7
1,2-Dichlorobenzene	1.754	1.275	1.433	1.477	1.412	1.470	12.0
Dibromomethane	0.148	0.121	0.135	0.138	0.132	0.135	7.4
1,2-Dibromoethane	0.999	0.847	0.893	0.942	0.884	0.913	6.4
1,1,1,2-Tetrachloroethane	1.131	0.884	0.977	1.020	0.917	0.986	9.8

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

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6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: (STL-PITTSBURGH)

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP4

Calibration Date(s): 08/10/00 08/10/00

Heated Purge: (Y/N) N

Calibration Time(s): 1235

1611

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID:		RRF5 =2A40810		RRF20 =1B40810			
RRF50 =3C40810		RRF100=1D40810		RRF200=1E40810			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
1,2,3-Trichloropropane	0.268	0.198	0.215	0.219	0.202	0.220	12.7
1,2-Dibromo-3-chloropropane	0.080	0.071	0.088	0.100	0.123	0.092	21.8
2,2-Dichloropropane	0.325	0.258	0.303	0.317	0.315	0.304	8.7
1,1-Dichloropropene	0.294	0.233	0.269	0.274	0.262	0.266	8.2
1,3-Dichloropropane	1.877	1.479	1.564	1.628	1.531	1.616	9.6
n-Propylbenzene	1.120	0.868	1.002	0.995	0.896	0.976	10.2
Bromobenzene	1.010	0.745	0.854	0.880	0.822	0.862	11.2
1,3,5-Trimethylbenzene	3.127	2.327	2.712	2.719	2.498	2.677	11.2
2-Chlorotoluene	0.978	0.746	0.857	0.864	0.791	0.847	10.4
4-Chlorotoluene	1.040	0.763	0.880	0.877	0.778	0.868	12.7
tert-Butylbenzene	2.786	2.115	2.487	2.515	2.362	2.453	10.0
1,2,4-Trimethylbenzene	2.883	2.142	2.593	2.618	2.498	2.547	10.5
sec-Butylbenzene	4.344	3.210	3.806	3.832	2.498	3.538	20.0
4-Isopropyltoluene	3.403	2.506	3.059	3.096	2.362	2.885	15.1
n-Butylbenzene	2.782	2.037	2.596	2.629	2.710	2.551	11.6
1,2,4-Trichlorobenzene	0.794	0.569	0.618	0.664	0.722	0.673	13.1
Hexachlorobutadiene	0.733	0.451	0.501	0.512	0.514	0.542	20.2
Naphthalene	1.091	0.920	0.845	0.932	1.110	0.980	11.8
1,2,3-Trichlorobenzene	0.658	0.465	0.393	0.430	0.479	0.485	21.0
Acetone	0.141	0.067	0.073	0.072	0.071	0.085	37.1
Carbon Disulfide	0.645	0.484	0.564	0.603	0.604	0.580	10.5
2-Butanone	0.105	0.116	0.126	0.140	0.141	0.126	12.2
4-Methyl-2-Pentanone	0.599	1.031	1.073	1.244	1.189	1.027	24.7
2-Hexanone	0.355	0.688	0.739	0.852	0.821	0.691	28.8
Methyl tert-butyl ether	0.621	0.450	0.512	0.559	0.564	0.541	11.8
Isopropylbenzene	6.240	4.826	5.619	5.716	5.322	5.545	9.4
1,2-Dichloroethene (total)	0.301	0.230	0.268	0.277	0.269	0.269	9.5
Xylenes (total)	2.450	1.818	2.156	2.199	2.131	2.151	10.5
Dibromofluoromethane	0.218	0.201	0.212	0.211	0.205	0.209	3.1
1,2-Dichloroethane-d4	0.249	0.218	0.227	0.224	0.213	0.226	6.1
Toluene-d8	4.168	3.861	3.929	3.954	3.714	3.925	4.2
Bromofluorobenzene	1.632	1.369	1.550	1.524	1.493	1.514	6.3

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

INITIAL CALIBRATION REPORT

Instrument ID: hp4.i
Lab File ID: 2A40810.D
Analysis Type: WATER

Injection Date: 10-AUG-2000 16:11
Lab Sample ID: vstd5
Method File: \\QPITPA02\d\chem\hp4.i\40810d.b

COMPOUND	%RSD
Xylenes (total)	10.5
1,2-Dichloroethene (total)	9.5
Dichlorodifluoromethane	5.8
Chloromethane	8.7
Vinyl Chloride	8.5
Bromomethane	10.6
Chloroethane	10.6
Trichlorofluoromethane	39.4
1,1-Dichloroethene	10.2
Carbon Disulfide	10.5
Acetone	37.1
Methylene Chloride	10.4
trans-1,2-Dichloroethene	9.7
Methyl tert-butyl ether	11.8
1,1-Dichloroethane	10.5
2,2-Dichloropropane	8.7
cis-1,2-dichloroethene	9.3
2-Butanone	12.2
Bromochloromethane	9.2
Chloroform	9.9
1,1,1-Trichloroethane	8.5
Dibromofluoromethane	3.1
Carbon Tetrachloride	8.1
1,1 Dichloropropene	8.2
Benzene	10.8
1,2-Dichloroethane-d4	6.1
1,2-Dichloroethane	11.4
Trichloroethene	9.5
1,2-Dichloropropane	10.5
Dibromomethane	7.4
Bromodichloromethane	8.1
cis-1,3-Dichloropropene	8.3
4-Methyl-2-Pentanone	24.7
Toluene-d8	4.2
Toluene	10.7
trans 1,3-Dichloropropene	6.9
1,1,2-Trichloroethane	7.7
Tetrachloroethene	14.3
1,3-Dichloropropane	9.6

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INITIAL CALIBRATION REPORT

Instrument ID: hp4.i
Lab File ID: 2A40810.D
Analysis Type: WATER

Injection Date: 10-AUG-2000 16:11
Lab Sample ID: vstd5
Method File: \\QPITPA02\d\chem\hp4.i\40810d.b

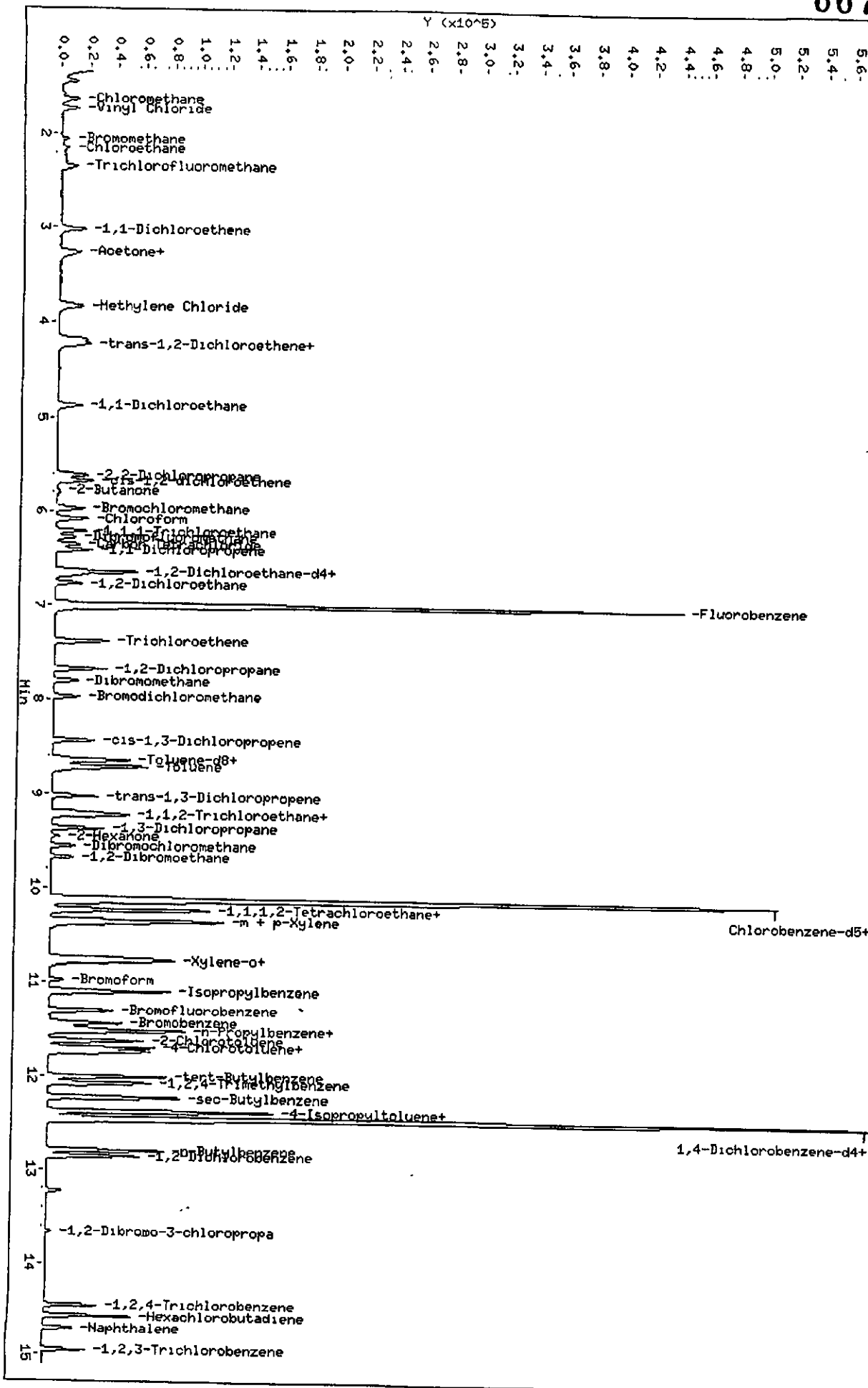
COMPOUND	%RSD
2-Hexanone	28.8
Dibromochloromethane	9.3
1,2-Dibromoethane	6.4
Chlorobenzene	11.6
Ethylbenzene	10.6
1,1,1,2-Tetrachloroethane	9.8
m + p Xylene	11.2
Xylene-o	10.5
Styrene	9.6
Bromoform	18.2
Isopropylbenzene	9.4
Bromofluorobenzene	6.3
Bromobenzene	11.2
1,1,2,2-Tetrachloroethane	7.8
n-Propylbenzene	10.2
1,2,3-Trichloropropane	12.7
2-Chlorotoluene	10.4
1,3,5-Trimethylbenzene	11.2
4-Chlorotoluene	12.7
tert-Butylbenzene	10.0
1,2,4-Trimethylbenzene	10.5
sec-Butylbenzene	20.0
4-Isopropyltoluene	15.1
1,3-Dichlorobenzene	13.1
1,4-Dichlorobenzene	12.7
n-Butylbenzene	11.6
1,2-Dichlorobenzene	12.0
1,2-Dibromo-3-chloropropane	21.8
1,2,4-Trichlorobenzene	13.1
Hexachlorobutadiene	20.2
Naphthalene	11.8
1,2,3-Trichlorobenzene	21.0

The average of all %RSD's in the initial calibration is 11.9

Data File: \\APITPA02\chem\hp4.1\40810d.b\2440810.D
 Date: 10-RUG-2000 16:11
 Client ID: vstd5
 Sample Info: vstd5 Sm1
 Volume Injected (uL): 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 10099
 Column diameter: 0.18

\\APITPA02\chem\hp4.1\40810d.b\2440810.D



STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\d\chem\hp4.i\40810d.b\2A40810.D
 Lab Smp Id: vstd5 Client Smp ID: vstd5
 Inj Date : 10-AUG-2000 16:11 MS Autotune Date: 08-AUG-1996 10:00
 Operator : 10099 Inst ID: hp4.i
 Smp Info : vstd5 5ml
 Misc Info : vstd5,40810d.b,8260bh2o.M
 Comment :
 Method : \\QPITPA02\d\chem\hp4.i\40810d.b\8260bh2o.m
 Meth Date : 10-Aug-2000 16:30 dudeckk Quant Type: ISTD
 Cal Date : 10-AUG-2000 16:11 Cal File: 2A40810.D
 Als bottle: 9 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-padep.sub
 Target Version: 4.04
 Processing Host: PITPC077

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.997	6.997	(1.000)	491906	250.000		
* 69 Chlorobenzene-d5	119	10.121	10.121	(1.000)	123051	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.457	12.457	(1.000)	193489	250.000		
\$ 39 Dibromofluoromethane	113	6.282	6.282	(0.898)	10708	25.0000	25.99	
\$ 43 1,2-Dichloroethane-d4	65	6.679	6.679	(0.955)	12231	25.0000	27.51	
\$ 59 Toluene-d8	98	8.648	8.648	(0.854)	51294	25.0000	26.55	
\$ 80 Bromofluorobenzene	95	11.307	11.307	(1.117)	20080	25.0000	26.95	
1 Dichlorodifluoromethane	85	1.446	1.446	(0.207)	13265	25.0000	27.08	
2 Chloromethane	50	1.630	1.630	(0.233)	20128	25.0000	28.48	
3 Vinyl Chloride	62	1.734	1.734	(0.248)	17147	25.0000	28.02	
4 Bromomethane	94	2.058	2.058	(0.294)	2679	25.0000	28.25	
5 Chloroethane	64	2.156	2.156	(0.308)	3307	25.0000	28.68	
6 Trichlorofluoromethane	101	2.357	2.357	(0.337)	6400	25.0000	21.08	
12 1,1-Dichloroethene	96	3.024	3.024	(0.432)	11058	25.0000	28.32	
13 Acetone	43	3.299	3.299	(0.471)	6919	25.0000	41.55	

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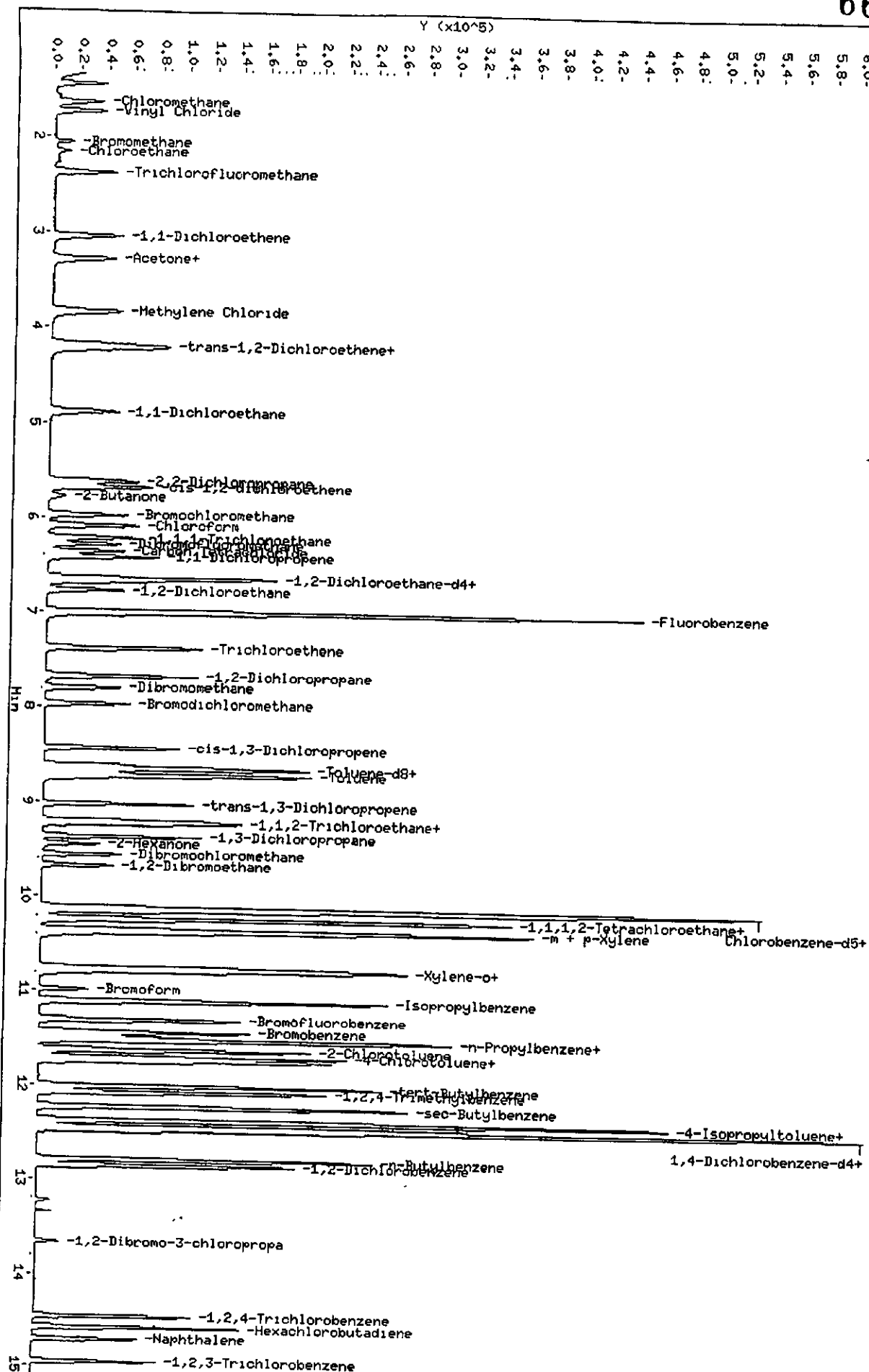
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	----	--	-----	-----	-----	-----	-----
15 Carbon Disulfide	76	3.268	3 268	(0 467)	31731	25.0000	27 80
18 Methylene Chloride	84	3 831	3 831	(0 547)	14257	25 0000	28 78
19 trans-1,2-Dichloroethene	96	4 173	4 173	(0 596)	14093	25 0000	28 03
20 Methyl tert-butyl ether	73	4 228	4.228	(0 604)	30561	25.0000	28.69
24 1,1-Dichloroethane	63	4.876	4 876	(0 697)	25008	25 0000	28 96
27 2,2-Dichloropropane	77	5 616	5 616	(0.803)	15990	25 0000	26 76
28 cis-1,2-dichloroethene	96	5 677	5.677	(0 811)	15495	25.0000	27.88
M 29 1,2-Dichloroethene (total)	100				29588	50 0000	55 90
30 Bromochloromethane	128	5.970	5 970	(0.853)	7206	25 0000	28.12
31 2-Butanone	43	5.793	5.793	(0.828)	5171	25.0000	20 90
37 Chloroform	83	6 086	6 086	(0 870)	21140	25.0000	28 66
38 1,1,1-Trichloroethane	97	6.215	6 215	(0 888)	17260	25 0000	27 38
40 1,1-Dichloropropene	75	6.417	6.417	(0.917)	14454	25.0000	27 57
41 Carbon Tetrachloride	117	6 355	6 355	(0.908)	13427	25.0000	26.37
42 Benzene	78	6 643	6 643	(0.949)	61463	25 0000	29 09
45 1,2-Dichloroethane	62	6.771	6 771	(0.968)	16869	25 0000	29.67
47 Trichloroethene	130	7.376	7.376	(1.054)	15704	25 0000	28 19
49 1,2-Dichloropropane	63	7.670	7.670	(1 096)	15634	25 0000	29 02
50 Dibromomethane	93	7 792	7 792	(1.114)	7298	25 0000	27 50
53 Bromodichloromethane	83	7 969	7.969	(1.139)	13838	25.0000	26 51
57 cis-1,3-Dichloropropene	75	8.434	8.434	(1 205)	17627	25 0000	25 82
58 4-Methyl-2-Pentanone	43	8 611	8 611	(0 851)	7373	25.0000	14.58
60 Toluene	91	8 715	8 715	(0.861)	70144	25 0000	29 46
61 trans-1,3-Dichloropropene	75	9 027	9 027	(0.892)	17599	25.0000	25 84
63 1,3-Dichloropropane	76	9 375	9 375	(0 926)	23100	25 0000	29 04
64 1,1,2-Trichloroethane	97	9 204	9 204	(0.909)	12959	25 0000	28 14
65 Tetrachloroethene	164	9 235	9 235	(0.912)	14657	25 0000	31 12
66 2-Hexanone	43	9.455	9.455	(0 934)	4366	25 0000	12.84
67 Dibromochloromethane	129	9 565	9 565	(0.945)	10256	25.0000	25.16
68 1,2 Dibromoethane	107	9 675	9.675	(0.956)	12295	25 0000	27 36
70 Chlorobenzene	112	10.146	10 146	(1.002)	47987	25 0000	29 71
71 1,1,1,2-Tetrachloroethane	131	10.237	10.237	(1 011)	13922	25.0000	28 68
72 Ethylbenzene	106	10 231	10 231	(1.011)	26012	25 0000	29 21
73 m + p-Xylene	106	10 354	10 354	(1.023)	63235	50 0000	58 89
74 Xylene-o	106	10 751	10 751	(1 062)	30145	25 0000	28.48
M 75 Xylenes (total)	106				93380	25 0000	88.21
76 Styrene	104	10.781	10 781	(1.065)	49515	25.0000	27 70
77 Bromoform	173	10.977	10 977	(1 085)	5341	25.0000	21.28
78 Isopropylbenzene	105	11 105	11 105	(1 097)	76781	25 0000	28 13
79 Bromobenzene	156	11 442	11 442	(0 919)	19540	25 0000	29.27
81 n Propylbenzene	120	11 521	11 521	(0.925)	21681	25 0000	28 69
82 2-Chlorotoluene	126	11.625	11 625	(0 933)	18930	25.0000	28 87
83 1,1,1,2-Tetrachloroethane	83	11 485	11 485	(0 922)	15206	25 0000	28 04
84 1,2,3-Trichloropropane	110	11.533	11.533	(0 926)	5196	25 0000	30.41
85 4-Chlorotoluene	126	11.747	11 747	(0.943)	20134	25 0000	29 98
86 1,3,5-Trimethylbenzene	105	11 705	11 705	(0 940)	60506	25 0000	29.21
87 tert-Butylbenzene	119	12 016	12 016	(0 965)	53913	25 0000	28.40

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	====	==	=====	=====	=====	=====	=====
88 1,2,4-Trimethylbenzene	105	12.078	12.078	(0.970)	55777	25.0000	28.30
89 sec-Butylbenzene	105	12.236	12.236	(0.982)	84044	25.0000	30.69
90 4-Isopropyltoluene	119	12.383	12.383	(0.994)	65851	25.0000	29.49
91 1,3-Dichlorobenzene	146	12.383	12.383	(0.994)	37331	25.0000	30.10
93 1,4-Dichlorobenzene	146	12.481	12.481	(1.002)	38132	25.0000	30.29
94 n-Butylbenzene	91	12.793	12.793	(1.027)	53828	25.0000	27.27
95 1,2-Dichlorobenzene	146	12.854	12.854	(1.032)	33936	25.0000	29.83
96 1,2-Dibromo-3 chloropropane	157	13.655	13.655	(1.096)	1548	25.0000	21.58
97 1,2,4-Trichlorobenzene	180	14.456	14.456	(1.160)	15371	25.0000	29.48
98 Hexachlorobutadiene	225	14.572	14.572	(1.170)	14183	25.0000	33.79
99 Naphthalene	128	14.712	14.712	(1.181)	21111	25.0000	27.83
100 1,2,3-Trichlorobenzene	180	14.957	14.957	(1.201)	12722	25.0000	33.89

Data File: \\QPIF02\chem\hp4.1\40810d.b\B40810.D
 Date: 10-AUG-2000 13:41
 Client ID: vstd20
 Sample Info: vstd20 5ml
 Volume Injected (ul): 5.0
 Column Phase: DB 624

Instrument: hp4.i
 Operator: 10099
 Column diameter: 0.18

\\QPIF02\chem\hp4.1\40810d.b\B40810.D



STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\d\chem\hp4.i\40810d.b\1B40810.D
 Lab Smp Id: vstd20 Client Smp ID: vstd20
 Inj Date : 10-AUG-2000 13:41 MS Autotune Date: 08-AUG-1996 10:00
 Operator : 10099 Inst ID: hp4.i
 Smp Info : vstd20 5ml
 Misc Info : ,40810d.b,8260bh2o.M
 Comment :
 Method : \\QPITPA02\d\chem\hp4.i\40810d.b\8260bh2o.m *Kr/4s/w*
 Meth Date : 10-Aug-2000 16:36 dudeckk Quant Type: ISTD
 Cal Date : 10-AUG-2000 12:35 Cal File: 3C40810.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-padep.sub
 Target Version: 4.04
 Processing Host: PITPC077

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.997	6.997	(1.000)	495734	250.000	
* 69 Chlorobenzene-d5	119	10.121	10.121	(1.000)	122194	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.457	12.457	(1.000)	193773	250.000	
\$ 39 Dibromofluoromethane	113	6.282	6.282	(0.898)	39868	100.000	96.03
\$ 43 1,2-Dichloroethane-d4	65	6.686	6.686	(0.955)	43190	100.000	96.40
\$ 59 Toluene-d8	98	8.648	8.648	(0.854)	188713	100.000	98.36
\$ 80 Bromofluorobenzene	95	11.301	11.301	(1.117)	66910	100.000	90.44
1 Dichlorodifluoromethane	85	1.446	1.446	(0.207)	45915	100.000	93.00
2 Chloromethane	50	1.642	1.642	(0.235)	65384	100.000	91.78
3 Vinyl Chloride	62	1.734	1.734	(0.248)	54521	100.000	88.42
4 Bromomethane	94	2.058	2.058	(0.294)	8706	100.000	91.10
5 Chloroethane	64	2.156	2.156	(0.308)	10327	100.000	88.87
6 Trichlorofluoromethane	101	2.376	2.376	(0.340)	52000	100.000	169.9
12 1,1-Dichloroethene	96	3.042	3.042	(0.435)	33276	100.000	84.57
13 Acetone	43	3.287	3.287	(0.470)	13351	100.000	79.56

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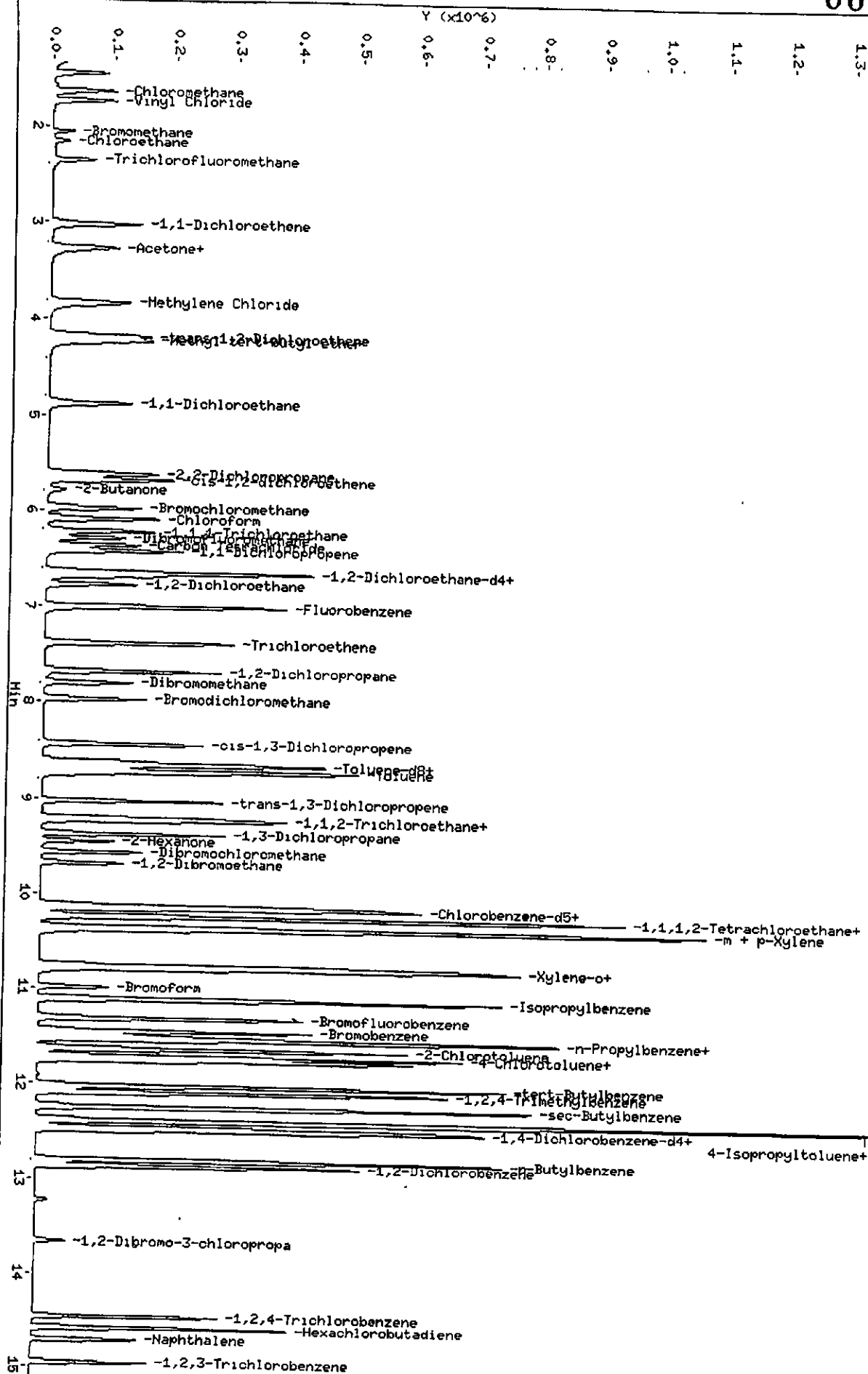
Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----	-----
15 Carbon Disulfide	76	3 280	3.280 (0.469)		95940	100 000	83.40
18 Methylene Chloride	84	3 837	3 837 (0.548)		42892	100 000	85.93
19 trans-1,2-Dichloroethene	96	4 185	4 185 (0.598)		43098	100 000	85.05
20 Methyl tert-butyl ether	73	4 216	4.216 (0.603)		89338	100 000	83.21
24 1,1-Dichloroethane	63	4 888	4 888 (0.699)		75338	100 000	86.56
27 2,2-Dichloropropane	77	5 622	5 622 (0.803)		51218	100 000	85.05
28 cis-1,2-dichloroethene	96	5.683	5 683 (0.812)		48046	100.000	85.79
M 29 1,2-Dichloroethene (total)	100				91144	200 000	170.9
30 Bromochloromethane	128	5 976	5 976 (0.854)		22414	100 000	86.81
31 2-Butanone	43	5 781	5.781 (0.826)		23101	100 000	92.67
37 Chloroform	83	6.086	6 086 (0.870)		64531	100 000	86.80
38 1,1,1-Trichloroethane	97	6 221	6.221 (0.889)		54745	100 000	86.19
40 1,1 Dichloropropene	75	6.417	6 417 (0.917)		46259	100 000	87.56
41 Carbon Tetrachloride	117	6.362	6.362 (0.909)		43908	100 000	85.57
42 Benzene	78	6.643	6.643 (0.949)		184379	100 000	86.60
45 1,2-Dichloroethane	62	6 771	6.771 (0.968)		50547	100.000	88.23
47 Trichloroethene	130	7 376	7 376 (1.054)		48396	100 000	86.20
49 1,2-Dichloropropane	63	7.670	7.670 (1.096)		47316	100 000	87.15
50 Dibromomethane	93	7.792	7.792 (1.114)		23948	100 000	89.56
53 Bromodichloromethane	83	7 963	7 963 (1.138)		45346	100 000	86.19
57 cis-1,3-Dichloropropene	75	8.434	8.434 (1.205)		58991	100 000	85.74
58 4-Methyl-2-Pentanone	43	8 605	8 605 (0.850)		50415	100.000	100.4
60 Toluene	91	8 715	8.715 (0.861)		213743	100.000	90.42
61 trans-1,3-Dichloropropene	75	9 027	9 027 (0.892)		60110	100 000	88.90
63 1,3-Dichloropropane	76	9.369	9 369 (0.926)		72296	100.000	91.54
64 1,1,2-Trichloroethane	97	9.204	9.204 (0.909)		42363	100 000	92.64
65 Tetrachloroethene	164	9 229	9.229 (0.912)		40917	100 000	87.50
66 2-Hexanone	43	9.449	9.449 (0.934)		33613	100 000	99.54
67 Dibromochloromethane	129	9.559	9 559 (0.944)		35270	100.000	87.15
68 1,2-Dibromoethane	107	9 675	9.675 (0.956)		41407	100 000	92.79
70 Chlorobenzene	112	10 146	10 146 (1.002)		141512	100.000	88.24
71 1,1,1,2 Tetrachloroethane	131	10.237	10.237 (1.011)		43214	100 000	89.66
72 Ethylbenzene	106	10 231	10 231 (1.011)		78133	100 000	88.37
73 m + p-Xylene	106	10 354	10.354 (1.023)		188943	200 000	177.2
74 Xylene-o	106	10 751	10 751 (1.062)		88866	100 000	84.54
M 75 Xylenes (total)	106				277809	100.000	264.3
76 Styrene	104	10 781	10.781 (1.065)		152301	100.000	85.81
77 Bromoform	173	10 977	10.977 (1.085)		19430	100 000	77.94
78 Isopropylbenzene	105	11 105	11 105 (1.097)		235896	100 000	87.04
79 Bromobenzene	156	11.442	11 442 (0.919)		57778	100.000	86.43
81 n-Propylbenzene	120	11 521	11 521 (0.925)		67241	100.000	88.85
82 2-Chlorotoluene	126	11 631	11.631 (0.934)		57854	100 000	88.10
83 1,1,2,2-Tetrachloroethane	83	11 484	11 484 (0.922)		49373	100 000	90.93
84 1,2,3 Trichloropropane	110	11.527	11 527 (0.925)		15385	100 000	89.92
85 4-Chlorotoluene	126	11.747	11.747 (0.943)		59169	100 000	87.97
86 1,3,5-Trimethylbenzene	105	11 705	11.705 (0.940)		180333	100.000	86.92
87 tert-Butylbenzene	119	12 016	12 016 (0.965)		163958	100.000	86.23

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====	
88 1,2,4-Trimethylbenzene	105	12.077	12.077	(0.970)	165998	100.000	84.09	
89 sec-Butylbenzene	105	12.236	12.236	(0.982)	248807	100.000	90.73	
90 4-Isopropyltoluene	119	12.383	12.383	(0.994)	194280	100.000	86.87	
91 1,3-Dichlorobenzene	146	12.383	12.383	(0.994)	109061	100.000	87.81	
93 1,4-Dichlorobenzene	146	12.481	12.481	(1.002)	110287	100.000	87.48	
94 n-Butylbenzene	91	12.793	12.793	(1.027)	157888	100.000	79.86	
95 1,2-Dichlorobenzene	146	12.854	12.854	(1.032)	98805	100.000	86.71	
96 1,2-Dibromo-3-chloropropane	157	13.655	13.655	(1.096)	5540	100.000	77.11	
97 1,2,4-Trichlorobenzene	180	14.456	14.456	(1.160)	44128	100.000	84.50	
98 Hexachlorobutadiene	225	14.578	14.578	(1.170)	34976	100.000	83.21	
99 Naphthalene	128	14.706	14.706	(1.181)	71345	100.000	93.92	
100 1,2,3-Trichlorobenzene	180	14.957	14.957	(1.201)	36040	100.000	95.86	

Data File: \\QIPITP02\chem\hp4.1\40810d.b\3C40810.D
 Date: 10-AUG-2000 12:35
 Client ID: vstd50
 Sample Info: vstd50 5ml
 Volume Injected (uL): 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 10099
 Column diameter: 0.18

\\QIPITP02\chem\hp4.1\40810d.b\3C40810.D



STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\d\chem\hp4.i\40810d.b\3C40810.D
 Lab Smp Id: vstd50 Client Smp ID: vstd50
 Inj Date : 10-AUG-2000 12:35 MS Autotune Date: 08-AUG-1996 10:00
 Operator : 10099 Inst ID: hp4.i
 Smp Info : vstd50 5ml
 Misc Info : vstd50,40810d.b,8260bh2o.M
 Comment :
 Method : \\QPITPA02\d\chem\hp4.i\40810d.b\8260bh2o.m Kc/10/4
 Meth Date : 10-Aug-2000 16:35 dudeckk Quant Type: ISTD
 Cal Date : 10-AUG-2000 12:35 Cal File: 3C40810.D
 Als bottle: 2 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-padep.sub
 Target Version: 4.04
 Processing Host: PITPC077

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.999	6.999	(1.000)	452795	250.000	
* 69 Chlorobenzene-d5	119	10.123	10.123	(1.000)	115782	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.458	12.458	(1.000)	186854	250.000	
\$ 39 Dibromofluoromethane	113	6.283	6.283	(0.898)	95911	250.000	252.9
\$ 43 1,2-Dichloroethane-d4	65	6.681	6.681	(0.955)	102798	250.000	251.2
\$ 59 Toluene-d8	98	8.649	8.649	(0.854)	454896	250.000	250.2
\$ 80 Bromofluorobenzene	95	11.302	11.302	(1.117)	179460	250.000	256.0
1 Dichlorodifluoromethane	85	1.448	1.448	(0.207)	115938	250.000	257.1
2 Chloromethane	50	1.631	1.631	(0.233)	159962	250.000	245.8
3 Vinyl Chloride	62	1.735	1.735	(0.248)	141303	250.000	250.9
4 Bromomethane	94	2.059	2.059	(0.294)	22348	250.000	256.0
5 Chloroethane	64	2.157	2.157	(0.308)	27388	250.000	258.0
6 Trichlorofluoromethane	101	2.359	2.359	(0.337)	60442	250.000	216.3
12 1,1-Dichloroethene	96	3.019	3.019	(0.431)	91101	250.000	253.5
13 Acetone	43	3.306	3.306	(0.472)	32876	250.000	214.5

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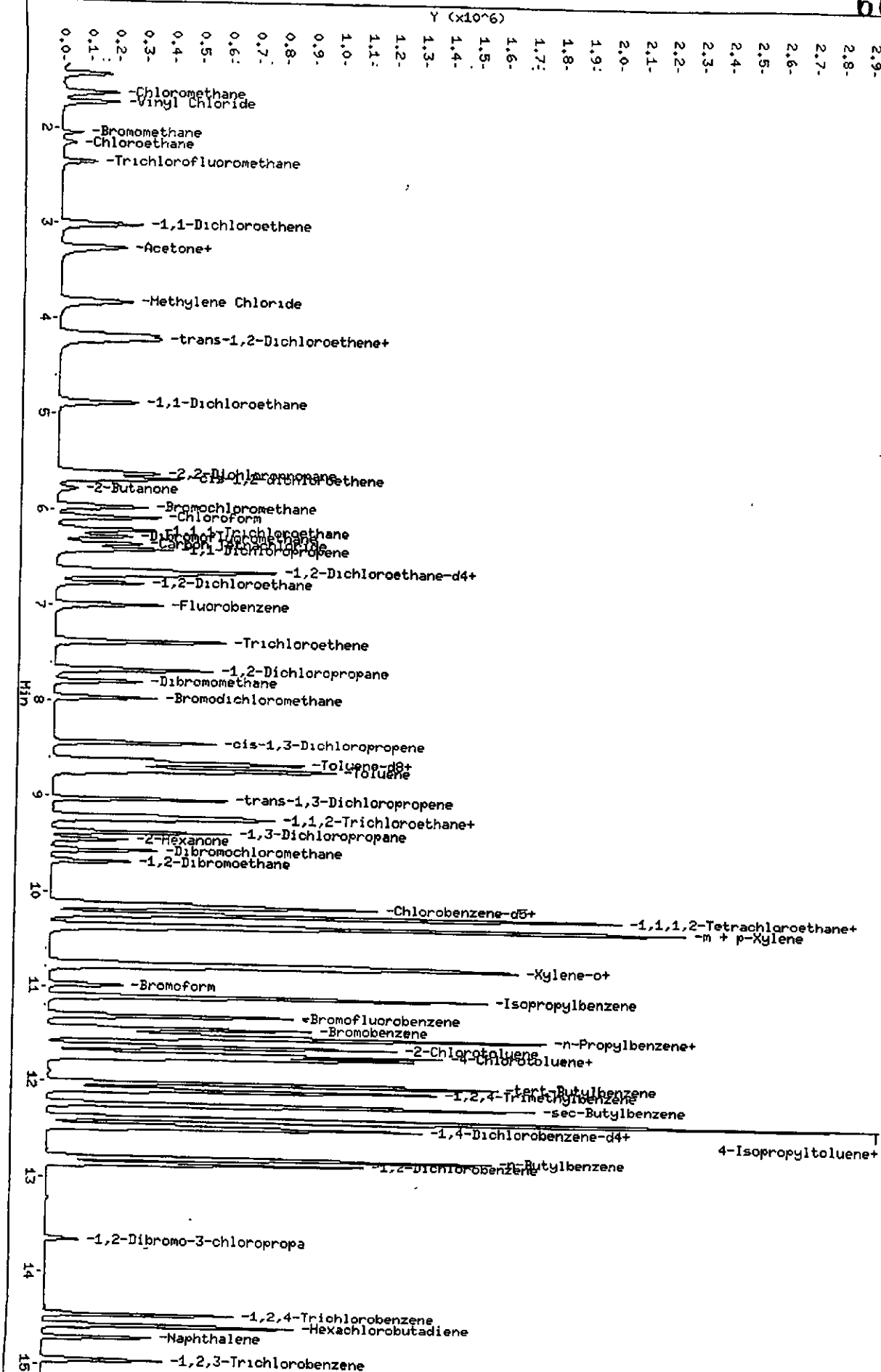
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----	-----
15 Carbon Disulfide	76	3.263	3.263	(0.466)	255615	250.000	243.3
18 Methylene Chloride	84	3.826	3.826	(0.547)	113786	250.000	249.6
19 trans-1,2-Dichloroethene	96	4.174	4.174	(0.596)	114892	250.000	248.2
20 Methyl tert-butyl ether	73	4.229	4.229	(0.604)	231861	250.000	236.4
24 1,1-Dichloroethane	63	4.877	4.877	(0.697)	194782	250.000	245.0
27 2,2-Dichloropropane	77	5.617	5.617	(0.803)	137248	250.000	249.5
28 cis-1,2-dichloroethene	96	5.678	5.678	(0.811)	128140	250.000	250.5
M 29 1,2-Dichloroethene (total)	100				243032	500.000	498.9
30 Bromochloromethane	128	5.972	5.972	(0.853)	58062	250.000	246.2
31 2-Butanone	43	5.788	5.788	(0.827)	57056	250.000	250.6
37 Chloroform	83	6.088	6.088	(0.870)	168272	250.000	247.8
38 1,1,1-Trichloroethane	97	6.216	6.216	(0.888)	145744	250.000	251.2
40 1,1-Dichloropropene	75	6.412	6.412	(0.916)	121878	250.000	252.6
41 Carbon Tetrachloride	117	6.357	6.357	(0.908)	120223	250.000	256.5
42 Benzene	78	6.644	6.644	(0.949)	482417	250.000	248.1
45 1,2-Dichloroethane	62	6.772	6.772	(0.968)	129175	250.000	246.8
47 Trichloroethene	130	7.378	7.378	(1.054)	126828	250.000	247.3
49 1,2-Dichloropropane	63	7.671	7.671	(1.096)	121524	250.000	245.0
50 Dibromomethane	93	7.793	7.793	(1.114)	60950	250.000	249.5
53 Bromodichloromethane	83	7.965	7.965	(1.138)	120038	250.000	249.8
57 cis-1,3-Dichloropropene	75	8.435	8.435	(1.205)	158789	250.000	252.7
58 4-Methyl-2-Pentanone	43	8.613	8.613	(0.851)	124218	250.000	261.1
60 Toluene	91	8.717	8.717	(0.861)	546931	250.000	244.2
61 trans-1,3-Dichloropropene	75	9.028	9.028	(0.892)	156662	250.000	244.5
63 1,3-Dichloropropane	76	9.371	9.371	(0.926)	181089	250.000	242.0
64 1,1,2-Trichloroethane	97	9.206	9.206	(0.909)	105090	250.000	242.5
65 Tetrachloroethene	164	9.230	9.230	(0.912)	105893	250.000	239.0
66 2-Hexanone	43	9.450	9.450	(0.934)	85599	250.000	267.5
67 Dibromochloromethane	129	9.560	9.560	(0.944)	99083	250.000	258.4
68 1,2-Dibromoethane	107	9.676	9.676	(0.956)	103441	250.000	244.6
70 Chlorobenzene	112	10.147	10.147	(1.002)	373335	250.000	245.7
71 1,1,1,2-Tetrachloroethane	131	10.239	10.239	(1.011)	113136	250.000	247.7
72 Ethylbenzene	106	10.233	10.233	(1.011)	207145	250.000	247.2
73 m + p-Xylene	106	10.355	10.355	(1.023)	503449	500.000	498.3
74 Xylene-o	106	10.752	10.752	(1.062)	249635	250.000	250.6
M 75 Xylenes (total)	106				753084	250.000	756.0
76 Styrene	104	10.777	10.777	(1.065)	431111	250.000	256.4
77 Bromoform	173	10.978	10.978	(1.085)	60256	250.000	255.1
78 Isopropylbenzene	105	11.107	11.107	(1.097)	650561	250.000	253.3
79 Bromobenzene	156	11.443	11.443	(0.919)	159642	250.000	247.7
81 n-Propylbenzene	120	11.516	11.516	(0.924)	187300	250.000	256.7
82 2-Chlorotoluene	126	11.626	11.626	(0.933)	160084	250.000	252.8
83 1,1,2,2-Tetrachloroethane	83	11.486	11.486	(0.922)	128619	250.000	245.6
84 1,2,3-Trichloropropane	110	11.535	11.535	(0.926)	40191	250.000	243.6
85 4-Chlorotoluene	126	11.749	11.749	(0.943)	164352	250.000	253.4
86 1,3,5-Trimethylbenzene	105	11.706	11.706	(0.940)	506685	250.000	253.3
87 tert-Butylbenzene	119	12.012	12.012	(0.964)	464665	250.000	253.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
88 1,2,4-Trimethylbenzene	105	12.079	12.079	(0.970)	484587	250.000	254.6
89 sec-Butylbenzene	105	12.238	12.238	(0.982)	711176	250.000	268.9
90 4-Isopropyltoluene	119	12.384	12.384	(0.994)	571632	250.000	265.1
91 1,3-Dichlorobenzene	146	12.378	12.378	(0.994)	299598	250.000	250.2
93 1,4-Dichlorobenzene	146	12.476	12.476	(1.001)	295702	250.000	243.2
94 n-Butylbenzene	91	12.794	12.794	(1.027)	485052	250.000	254.4
95 1,2-Dichlorobenzene	146	12.855	12.855	(1.032)	267693	250.000	243.6
96 1,2-Dibromo-3-chloropropane	157	13.662	13.662	(1.097)	16497	250.000	238.1
97 1,2,4-Trichlorobenzene	180	14.457	14.457	(1.160)	115576	250.000	229.5
98 Hexachlorobutadiene	225	14.579	14.579	(1.170)	93635	250.000	231.0
99 Naphthalene	128	14.708	14.708	(1.181)	157980	250.000	215.7
100 1,2,3-Trichlorobenzene	180	14.958	14.958	(1.201)	73511	250.000	202.8

Data File: \\QPI1P022\chem\hp4.1\40810d.b\140810.D
 Date: 10-AUG-2000 14:06
 Client ID: vsid100
 Sample Info: vsid100 5m1
 Volume Injected (uL): 5.0
 Column phase: DB 624

Instrument: hp4.i
 Operator: 10099
 Column diameter: 0.18

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STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\d\chem\hp4.i\40810d.b\1D40810.D
 Lab Smp Id: vstd100 Client Smp ID: vstd100
 Inj Date : 10-AUG-2000 14:06 MS Autotune Date: 08-AUG-1996 10:00
 Operator : 10099 Inst ID: hp4.i
 Smp Info : vstd100 5ml
 Misc Info : ,40810d.b,8260bh2o.M
 Comment :
 Method : \\QPITPA02\d\chem\hp4.i\40810d.b\8260bh2o.m
 Meth Date : 10-Aug-2000 16:36 dudeckk Quant Type: ISTD
 Cal Date : 10-AUG-2000 12:35 Cal File: 3C40810.D
 Als bottle: 5 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-padep.sub
 Target Version: 4.04
 Processing Host: PITPC077

KSF/10/0

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL AMT (ng)	ON COL (ng)
* 46 Fluorobenzene	96	6.995	6.995	(1.000)	473366	250.000		
* 69 Chlorobenzene-d5	119	10.119	10.119	(1.000)	119424	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.454	12.454	(1.000)	194132	250.000		
\$ 39 Dibromofluoromethane	113	6.280	6.280	(0.898)	200165	500.000	504.9	
\$ 43 1,2-Dichloroethane-d4	65	6.683	6.683	(0.955)	211639	500.000	494.7	
\$ 59 Toluene d8	98	8.646	8.646	(0.854)	944343	500.000	503.6	
\$ 80 Bromofluorobenzene	95	11.305	11.305	(1.117)	364072	500.000	503.5	
1 Dichlorodifluoromethane	85	1.444	1.444	(0.207)	232828	500.000	493.9	
2 Chloromethane	50	1.634	1.634	(0.234)	346234	500.000	509.0	
3 Vinyl Chloride	62	1.738	1.738	(0.248)	299912	500.000	509.4	
4 Bromomethane	94	2.055	2.055	(0.294)	48414	500.000	530.5	
5 Chloroethane	64	2.159	2.159	(0.309)	56931	500.000	513.0	
6 Trichlorofluoromethane	101	2.361	2.361	(0.338)	123603	500.000	423.0	
12 1,1-Dichloroethene	96	3.021	3.021	(0.432)	190578	500.000	507.2	
13 Acetone	43	3.303	3.303	(0.472)	67734	500.000	422.7	

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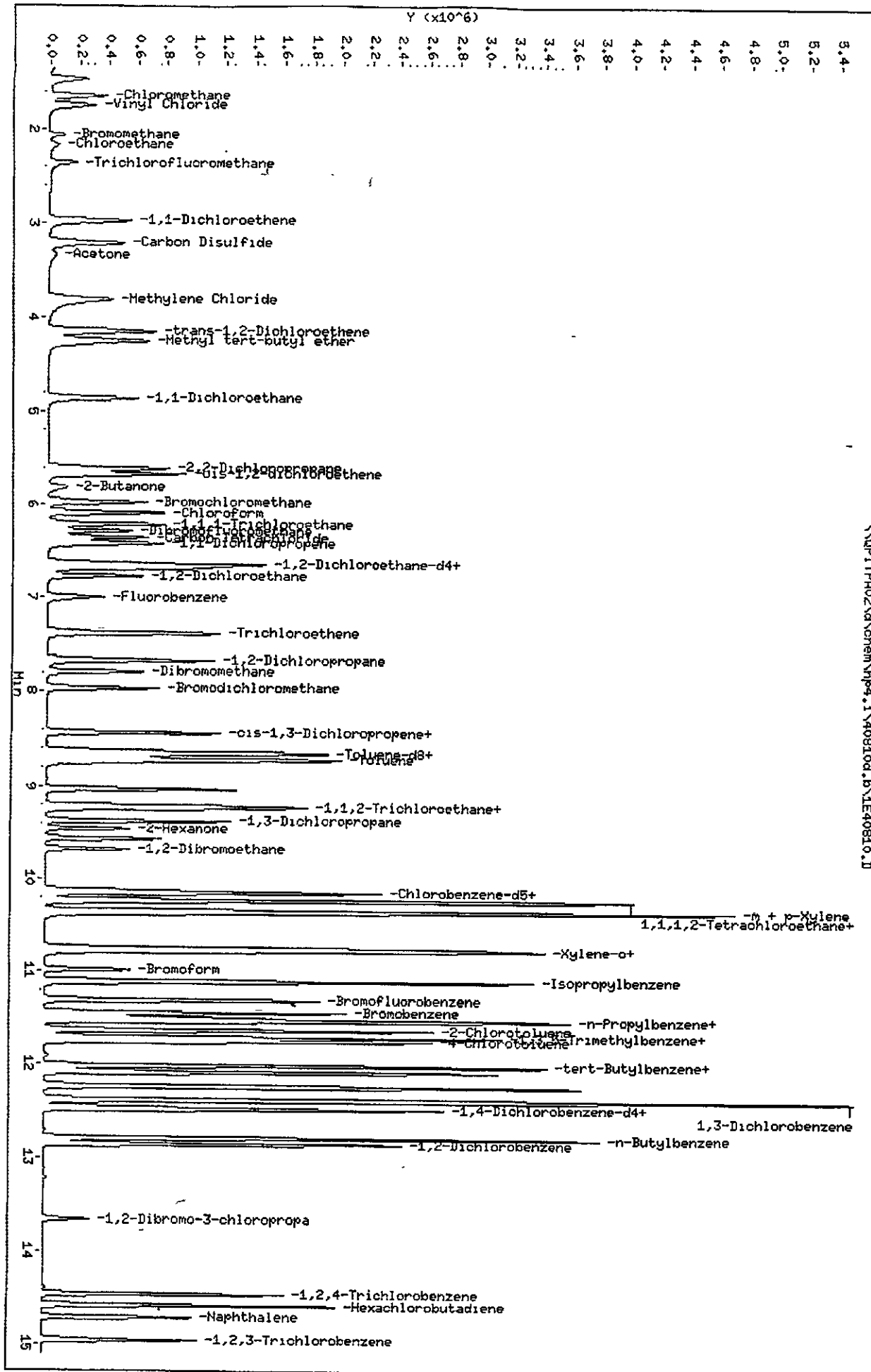
Compounds	QUANT SIG			AMOUNTS		
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----
15 Carbon Disulfide	76	3 260	3.260 (0 466)	570903	500 000	519 7
18 Methylene Chloride	84	3 828	3.828 (0 547)	240513	500 000	504 6
19 trans-1,2-Dichloroethene	96	4.177	4 177 (0.597)	248235	500 000	513 0
20 Methyl tert-butyl ether	73	4.220	4.220 (0.603)	529200	500 000	516 2
24 1,1-Dichloroethane	63	4.880	4 880 (0 698)	419405	500 000	504 6
27 2,2-Dichloropropane	77	5.626	5 626 (0 804)	300256	500.000	522 2
28 cis-1,2-dichloroethene	96	5.675	5 675 (0.811)	275543	500 000	515 3
M 29 1,2 Dichloroethene (total)	100			523778	1000 00	1028
30 Bromochloromethane	128	5 974	5 974 (0 854)	126075	500.000	511 4
31 2-Butanone	43	5 785	5 785 (0 827)	132359	500 000	556.1
37 Chloroform	83	6 084	6 084 (0.870)	359191	500 000	506 0
38 1,1,1-Trichloroethane	97	6.219	6 219 (0 889)	312280	500 000	514 9
40 1,1-Dichloropropene	75	6.414	6.414 (0 917)	259153	500.000	513.7
41 Carbon Tetrachloride	117	6 359	6 359 (0.909)	254014	500 000	518 4
42 Benzene	78	6.640	6.640 (0 949)	1033933	500 000	508 6
45 1,2-Dichloroethane	62	6.769	6 769 (0.968)	273325	500.000	499 6
47 Trichloroethene	130	7.380	7 380 (1.055)	275944	500 000	514 7
49 1,2-Dichloropropane	63	7 668	7.668 (1 096)	263031	500 000	507 4
50 Dibromomethane	93	7.796	7 796 (1 114)	130892	500 000	512 6
53 Bromodichloromethane	83	7.967	7.967 (1.139)	265584	500 000	528 6
57 cis-1,3-Dichloropropene	75	8.432	8.432 (1.205)	352109	500 000	535 9
58 4-Methyl 2-Pentanone	43	8 609	8.609 (0 851)	297073	500 000	605.4
60 Toluene	91	8 713	8 713 (0 861)	1162390	500 000	503 1
61 trans-1,3-Dichloropropene	75	9.025	9 025 (0.892)	350695	500 000	530 7
63 1,3 Dichloropropane	76	9.373	9.373 (0 926)	388797	500 000	503.7
64 1,1,2-Trichloroethane	97	9 202	9.202 (0.909)	226447	500 000	506 7
65 Tetrachloroethene	164	9 233	9 233 (0 912)	224740	500 000	491 8
66 2-Hexanone	43	9 446	9 446 (0.934)	203465	500.000	616.5
67 Dibromochloromethane	129	9 563	9.563 (0.945)	222559	500 000	562.7
68 1,2 Dibromoethane	107	9.679	9.679 (0 957)	224892	500 000	515 7
70 Chlorobenzene	112	10.150	10 150 (1 003)	789750	500 000	503 8
71 1,1,1,2-Tetrachloroethane	131	10.241	10 241 (1 012)	243741	500 000	517.4
72 Ethylbenzene	106	10.235	10 235 (1 011)	436917	500.000	505.6
73 m + p-Xylene	106	10 357	10.357 (1.024)	1056681	1000.00	1014
74 Xylene-o	106	10 755	10 755 (1.063)	525170	500 000	511 2
M 75 Xylenes (total)	106			1581851	500.000	1540
76 Styrene	104	10 779	10.779 (1.065)	911313	500 000	525.4
77 Bromoform	173	10 981	10.981 (1.085)	142435	500 000	584 6
78 Isopropylbenzene	105	11.103	11 103 (1 097)	1365371	500 000	515.5
79 Bromobenzene	156	11 446	11 446 (0 919)	341865	500.000	510 5
81 n-Propylbenzene	120	11.519	11.519 (0.925)	386309	500.000	509 5
82 2 Chlorotoluene	126	11.629	11 629 (0.934)	335393	500 000	509 8
83 1,1,2,2-Tetrachloroethane	83	11.482	11 482 (0.922)	276312	500.000	507 9
84 1,2,3-Trichloropropane	110	11 531	11.531 (0.926)	85050	500 000	496 2
85 4-Chlorotoluene	126	11 745	11 745 (0.943)	340449	500 000	505 2
86 1,3,5-Trimethylbenzene	105	11.702	11 702 (0 940)	1055866	500.000	508 0
87 tert-Butylbenzene	119	12 014	12 014 (0 965)	976616	500 000	512 7

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						AMOUNTS	
QUANT SIG						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	====	==	=====	=====	=====	=====	=====
88 1,2,4-Trimethylbenzene	105	12.081	12.081	(0.970)	1016549	500.000	514.0
89 sec Butylbenzene	105	12.234	12.234	(0.982)	1487770	500.000	541.5
90 4-Isopropyltoluene	119	12.381	12.381	(0.994)	1201958	500.000	536.4
91 1,3-Dichlorobenzene	146	12.381	12.381	(0.994)	638053	500.000	512.8
93 1,4-Dichlorobenzene	146	12.479	12.479	(1.002)	631138	500.000	499.7
94 n Butylbenzene	91	12.790	12.790	(1.027)	1020614	500.000	515.3
95 1,2-Dichlorobenzene	146	12.852	12.852	(1.032)	573514	500.000	502.4
96 1,2-Dibromo-3-chloropropane	157	13.659	13.659	(1.097)	38988	500.000	541.6
97 1,2,4 Trichlorobenzene	180	14.453	14.453	(1.161)	257882	500.000	492.9
98 Hexachlorobutadiene	225	14.576	14.576	(1.170)	198835	500.000	472.2
99 Naphthalene	128	14.710	14.710	(1.181)	362076	500.000	475.8
100 1,2,3-Trichlorobenzene	180	14.955	14.955	(1.201)	167134	500.000	443.7

Data File: \\QPI7P022\chem\hp4.1\40810d.b\1E40810.D
 Date: 10-AUG-2000 14:35
 Client ID: vstd200
 Sample Info: vstd200 5ml
 Volume Injected (uL): 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 10099
 Column diameter: 0.18



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STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\d\chem\hp4.i\40810d.b\1E40810.D
Lab Smp Id: vstd200 Client Smp ID: vstd200
Inj Date : 10-AUG-2000 14:35 MS Autotune Date: 08-AUG-1996 10:00
Operator : 10099 Inst ID: hp4.i
Smp Info : vstd200 5ml
Misc Info : ,40810d.b,8260bh2o.M
Comment :
Method : \\QPITPA02\d\chem\hp4.i\40810d.b\8260bh2o.m K. f/10
Meth Date : 10-Aug-2000 16:37 dudeckk Quant Type: ISTD
Cal Date : 10-AUG-2000 12:35 Cal File: 3C40810.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 4.04
Processing Host: PITPC077

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.992	6.992	(1.000)	525499	250.000	
* 69 Chlorobenzene-d5	119	10.122	10.122	(1.000)	130469	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.458	12.458	(1.000)	216631	250.000	
\$ 39 Dibromofluoromethane	113	6.283	6.283	(0.899)	430551	1000.00	978.3
\$ 43 1,2-Dichloroethane-d4	65	6.681	6.681	(0.955)	446979	1000.00	941.2
\$ 59 Toluene-d8	98	8.649	8.649	(0.854)	1938238	1000.00	946.2
\$ 80 Bromofluorobenzene	95	11.308	11.308	(1.117)	778999	1000.00	986.2
1 Dichlorodifluoromethane	85	1.454	1.454	(0.208)	508101	1000.00	970.8
2 Chloromethane	50	1.643	1.643	(0.235)	711140	1000.00	941.7
3 Vinyl Chloride	62	1.747	1.747	(0.250)	635614	1000.00	972.4
4 Bromomethane	94	2.065	2.065	(0.295)	88530	1000.00	873.9
5 Chloroethane	64	2.169	2.169	(0.310)	111598	1000.00	905.9
6 Trichlorofluoromethane	101	2.358	2.358	(0.337)	242021	1000.00	746.2
12 1,1-Dichloroethene	96	2.970	2.970	(0.425)	414175	1000.00	993.0
13 Acetone	43	3.343	3.343	(0.478)	149260	1000.00	839.0

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Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	CAL-AMT (ng)	ON-COL (ng)
*****	----	--	-----	-----	-----	-----
15 Carbon Disulfide	76	3.208	3 208 (0 459)		1270062	1042
18 Methylene Chloride	84	3 807	3 807 (0 545)		519426	981 7
19 trans-1,2-Dichloroethene	96	4 144	4 144 (0 593)		542185	1009
20 Methyl tert-butyl ether	73	4.247	4 247 (0 607)		1186317	1042
24 1,1-Dichloroethane	63	4.865	4 865 (0.696)		910317	986 7
27 2,2-Dichloropropane	77	5 611	5 611 (0 802)		661709	1037
28 cis-1,2 dichloroethene	96	5 672	5 672 (0 811)		590114	994 1
M 29 1,2-Dichloroethene (total)	100				1132299	2003
30 Bromochloromethane	128	5 971	5 971 (0 854)		273528	999 4
31 2-Butanone	43	5 812	5 812 (0 831)		296637	1122
37 Chloroform	83	6.088	6 088 (0 871)		774338	982 6
38 1,1,1-Trichloroethane	97	6.210	6.210 (0.888)		678817	1008
40 1,1-Dichloropropene	75	6.412	6 412 (0 917)		550915	983 7
41 Carbon Tetrachloride	117	6.350	6 350 (0 908)		558273	1026
42 Benzene	78	6 638	6.638 (0 949)		2168595	960 9
45 1,2-Dichloroethane	62	6.766	6 766 (0 968)		573393	944 1
47 Trichloroethene	130	7.384	7 384 (1 056)		590195	991.7
49 1,2-Dichloropropane	63	7.671	7 671 (1.097)		559853	972.8
50 Dibromomethane	93	7 793	7.793 (1.115)		278055	980.9
53 Bromodichloromethane	83	7.964	7 964 (1 139)		569575	1021
57 cis-1,3 Dichloropropene	75	8 435	8 435 (1 206)		749239	1027
58 4 Methyl-2 Pentanone	43	8 618	8.618 (0.851)		620377	1157
60 Toluene	91	8.716	8.716 (0 861)		2358321	934.3
61 trans-1,3-Dichloropropene	75	8 435	8 435 (0 833)		749239	1038
63 1,3-Dichloropropane	76	9.377	9 377 (0.926)		799129	947 6
64 1,1,2-Trichloroethane	97	9 211	9 211 (0 910)		470827	964 3
65 Tetrachloroethene	164	9.236	9.236 (0 912)		469546	940 4
66 2-Hexanone	43	9.456	9 456 (0 934)		428392	1188
67 Dibromochloromethane	129	9 230	9.230 (0.912)		416139	963.0
68 1,2-Dibromoethane	107	9 682	9.682 (0 957)		461094	967 8
70 Chlorobenzene	112	10.153	10 153 (1 003)		1607588	938 8
71 1,1,1,2 Tetrachloroethane	131	10.245	10 245 (1.012)		478686	930.2
72 Ethylbenzene	106	10.232	10.232 (1 011)		894469	947.5
73 m + p-Xylene	106	10.355	10 355 (1.023)		2106879	1851
74 Xylene-o	106	10.752	10 752 (1 062)		1112076	990.8
M 75 Xylenes (total)	106				3218955	2868
76 Styrene	104	10 783	10.783 (1 065)		1814554	957.5
77 Bromoform	173	10.984	10 984 (1.085)		313995	1180
78 Isopropylbenzene	105	11 107	11.107 (1 097)		2777670	959.9
79 Bromobenzene	156	11 443	11 443 (0 919)		712268	953.1
81 n-Propylbenzene	120	11.522	11 522 (0 925)		776756	918.1
82 2-Chlorotoluene	126	11 632	11 632 (0 934)		685389	933 6
83 1,1,2,2-Tetrachloroethane	83	11 486	11 486 (0 922)		589052	970 4
84 1,2,3-Trichloropropane	110	11 535	11.535 (0 926)		175481	917.4
85 4-Chlorotoluene	126	11 749	11 749 (0.943)		674535	897.1
86 1,3,5-Trimethylbenzene	105	11.706	11 706 (0 940)		2164970	933 4
87 tert-Butylbenzene	119	12 018	12 018 (0 965)		2046796	962 9

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Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	====	==	=====	=====	=====	=====	=====	
88 1,2,4-Trimethylbenzene	105	11.706	11.706	(0.940)	2164970	1000.00	981.0	
89 sec-Butylbenzene	105	11.706	11.706	(0.940)	2164970	1000.00	706.2	
90 4-Isopropyltoluene	119	12.018	12.018	(0.965)	2046796	1000.00	818.6	
91 1,3-Dichlorobenzene	146	12.378	12.378	(0.994)	1237961	1000.00	891.6	
93 1,4-Dichlorobenzene	146	12.482	12.482	(1.002)	1326529	1000.00	941.2	
94 n-Butylbenzene	91	12.794	12.794	(1.027)	2348250	1000.00	1062	
95 1,2-Dichlorobenzene	146	12.855	12.855	(1.032)	1223559	1000.00	960.5	
96 1,2-Dibromo-3-chloropropane	157	13.662	13.662	(1.097)	106838	1000.00	1330	
97 1,2,4-Trichlorobenzene	180	14.457	14.457	(1.160)	625908	1000.00	1072	
98 Hexachlorobutadiene	225	14.579	14.579	(1.170)	445298	1000.00	947.6	
99 Naphthalene	128	14.707	14.707	(1.181)	962222	1000.00	1133	
100 1,2,3-Trichlorobenzene	180	14.958	14.958	(1.201)	415080	1000.00	987.5	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

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Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 40818D

Instrument ID: HP4

Calibration Date: 08/18/00 Time: 0626

Lab File ID: CC40818

Init. Calib. Date(s): 08/10/00 08/10/00

Heated Purge: (Y/N) N

Init. Calib. Times: 1235 1611

GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.249	0.222	0.01	10.8	50.0
Chloromethane	0.359	0.298	0.1	17.0	50.0
Vinyl Chloride	0.311	0.262	0.01	15.8	20.0
Bromomethane	0.048	0.041	0.01	14.6	50.0
Chloroethane	0.058	0.057	0.01	1.7	50.0
Trichlorofluoromethane	0.154	0.136	0.01	11.7	50.0
1,1-Dichloroethene	0.198	0.171	0.01	13.6	20.0
Methylene Chloride	0.252	0.177	0.01	29.8	50.0
trans-1,2-Dichloroethene	0.255	0.222	0.01	12.9	50.0
1,1-Dichloroethane	0.439	0.388	0.1	11.6	50.0
cis-1,2-dichloroethene	0.282	0.255	0.01	9.6	50.0
Chloroform	0.375	0.346	0.01	7.7	20.0
Bromochloromethane	0.130	0.112	0.01	13.8	50.0
1,1,1-Trichloroethane	0.320	0.297	0.01	7.2	50.0
Carbon Tetrachloride	0.259	0.237	0.01	8.5	50.0
1,2-Dichloroethane	0.289	0.269	0.01	6.9	50.0
Benzene	1.074	0.946	0.01	11.9	50.0
Trichloroethene	0.283	0.240	0.01	15.2	50.0
1,2-Dichloropropane	0.274	0.233	0.01	15.0	20.0
Bromodichloromethane	0.265	0.232	0.01	12.4	50.0
cis-1,3-Dichloropropene	0.347	0.300	0.01	13.5	50.0
Toluene	4.837	4.284	0.01	11.4	20.0
trans-1,3-Dichloropropene	1.383	1.248	0.01	9.8	50.0
1,1,2-Trichloroethane	0.936	0.847	0.01	9.5	50.0
Tetrachloroethene	0.957	1.325	0.01	38.4	50.0
Dibromochloromethane	0.828	1.259	0.01	52.0	50.0
Chlorobenzene	3.281	2.841	0.3	13.4	50.0
Ethylbenzene	1.809	1.578	0.01	12.8	20.0
Styrene	3.631	3.286	0.01	9.5	50.0
Bromoform	0.510	0.450	0.1	11.8	50.0
1,1,2,2-Tetrachloroethane	0.701	0.668	0.3	4.7	50.0
1,3-Dichlorobenzene	1.602	1.376	0.01	14.1	50.0
1,4-Dichlorobenzene	1.627	1.364	0.01	16.2	50.0
1,2-Dichlorobenzene	1.470	1.238	0.01	15.8	50.0
Dibromomethane	0.135	0.124	0.01	8.1	50.0
1,2-Dibromoethane	0.913	0.831	0.01	9.0	50.0
1,1,1,2-Tetrachloroethane	0.986	0.834	0.01	15.4	50.0

<-

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FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 40818D

Instrument ID: HP4

Calibration Date: 08/18/00 Time: 0626

Lab File ID: CC40818

Init. Calib. Date(s): 08/10/00 08/10/00

Heated Purge: (Y/N) N

Init. Calib. Times: 1235 1611

GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,2,3-Trichloropropane	0.220	0.215	0.01	2.3	50.0
1,2-Dibromo-3-chloropropane	0.092	0.086	0.01	6.5	50.0
2,2-Dichloropropane	0.304	0.276	0.01	9.2	50.0
1,1-Dichloropropene	0.266	0.239	0.01	10.2	50.0
1,3-Dichloropropane	1.616	1.449	0.01	10.3	50.0
n-Propylbenzene	0.976	0.849	0.01	13.0	50.0
Bromobenzene	0.862	0.699	0.01	18.9	50.0
1,3,5-Trimethylbenzene	2.677	2.357	0.01	12.0	50.0
2-Chlorotoluene	0.847	0.726	0.01	14.3	50.0
4-Chlorotoluene	0.868	0.751	0.01	13.5	50.0
tert-Butylbenzene	2.453	2.124	0.01	13.4	50.0
1,2,4-Trimethylbenzene	2.547	2.357	0.01	7.4	50.0
sec-Butylbenzene	3.538	2.357	0.01	33.4	50.0
4-Isopropyltoluene	2.885	2.124	0.01	26.4	50.0
n-Butylbenzene	2.551	2.272	0.01	10.9	50.0
1,2,4-Trichlorobenzene	0.673	0.569	0.01	15.4	50.0
Hexachlorobutadiene	0.542	0.379	0.01	30.1	50.0
Naphthalene	0.980	0.969	0.01	1.1	50.0
1,2,3-Trichlorobenzene	0.485	0.371	0.01	23.5	50.0
Acetone	0.085	0.094	0.01	10.6	50.0
Carbon Disulfide	0.580	0.527	0.01	9.1	50.0
2-Butanone	0.126	0.165	0.01	31.0	50.0
4-Methyl-2-Pentanone	1.027	1.245	0.01	21.2	50.0
2-Hexanone	0.691	0.911	0.01	31.8	50.0
Methyl tert-butyl ether	0.541	0.567	0.01	4.8	50.0
Isopropylbenzene	5.545	4.904	0.01	11.6	50.0
1,2-Dichloroethene (total)	0.269	0.239	0.01	11.2	50.0
Xylenes (total)	2.151	1.870	0.01	13.1	50.0
=====	=====	=====	=====	=====	=====
Dibromofluoromethane	0.209	0.209	0.01	0.0	50.0
1,2-Dichloroethane-d4	0.226	0.238	0.01	5.3	50.0
Toluene-d8	3.925	3.947	0.01	0.6	50.0
Bromofluorobenzene	1.514	1.473	0.01	2.7	50.0

Data File: \\qpitpa02\d\chem\hp4.i\40818d.b\CC40818.D
 Report Date: 08/18/2000

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CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: hp4.i
 Lab File ID: CC40818.D
 Analysis Type: WATER

Injection Date: 18-AUG-2000 06:26
 Lab Sample ID: vstd50
 Method File: \\QPITPA02\D\chem\hp4.i\40818d.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
154 Xylenes (total)	750.0000	668.3760	10.9	50.0
153 1,2-Dichloroethene (total)	500.0000	443.6496	11.3	50.0
1 Dichlorodifluoromethane	250.0000	222.7969	10.9	50.0
2 Chloromethane	250.0000	207.3098	17.1	50.0
3 Vinyl Chloride	250.0000	211.0808	15.6	20.0
4 Bromomethane	250.0000	212.0789	15.2	50.0
5 Chloroethane	250.0000	242.9876	2.8	50.0
6 Trichlorofluoromethane	250.0000	221.1007	11.6	50.0
9 1,1-Dichloroethene	250.0000	215.6893	13.7	20.0
107 Carbon Disulfide	250.0000	227.2885	9.1	50.0
106 Acetone	250.0000	278.4783	11.4	50.0
10 Methylene Chloride	250.0000	176.0088	29.6	50.0
13 trans-1,2-Dichloroethene	250.0000	217.5311	13.0	50.0
134 Methyl tert-butyl ether	250.0000	261.6600	4.7	50.0
15 1,1-Dichloroethane	250.0000	220.9456	11.6	50.0
74 2,2-Dichloropropane	250.0000	226.8512	9.3	50.0
17 cis-1,2-dichloroethene	250.0000	225.7100	9.7	50.0
108 2-Butanone	250.0000	328.6754	31.5	50.0
19 Bromochloromethane	250.0000	215.5930	13.8	50.0
18 Chloroform	250.0000	230.4797	7.8	20.0
20 1,1,1-Trichloroethane	250.0000	231.7077	7.3	50.0
149 Dibromofluoromethane	250.0000	249.6716	0.1	50.0
21 Carbon Tetrachloride	250.0000	229.0136	8.4	50.0
75 1,1-Dichloropropene	250.0000	224.4209	10.2	50.0
24 Benzene	250.0000	220.3906	11.8	50.0
150 1,2-Dichloroethane-d4	250.0000	262.8104	5.1	50.0
23 1,2-Dichloroethane	250.0000	232.4337	7.0	50.0
137 Fluorobenzene	250.0000	250.0000	0.0	50.0
26 Trichloroethene	250.0000	211.8598	15.3	50.0
27 1,2-Dichloropropane	250.0000	212.4186	15.0	20.0
60 Dibromomethane	250.0000	229.4538	8.2	50.0
28 Bromodichloromethane	250.0000	218.7351	12.5	50.0
34 trans-1,3-Dichloropropene	250.0000	225.5219	9.8	50.0
31 cis-1,3-Dichloropropene	250.0000	216.2122	13.5	50.0
110 4-Methyl-2-Pentanone	250.0000	302.9603	21.2	50.0
151 Toluene-d8	250.0000	251.3914	0.6	50.0
33 Toluene	250.0000	221.4291	11.4	20.0
36 1,1,2-Trichloroethane	250.0000	226.3986	9.4	50.0
37 Tetrachloroethene	250.0000	346.2131	38.5	50.0

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Data File: \\qpitpa02\d\chem\hp4.i\40818d.b\CC40818.D
Report Date: 08/18/2000

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

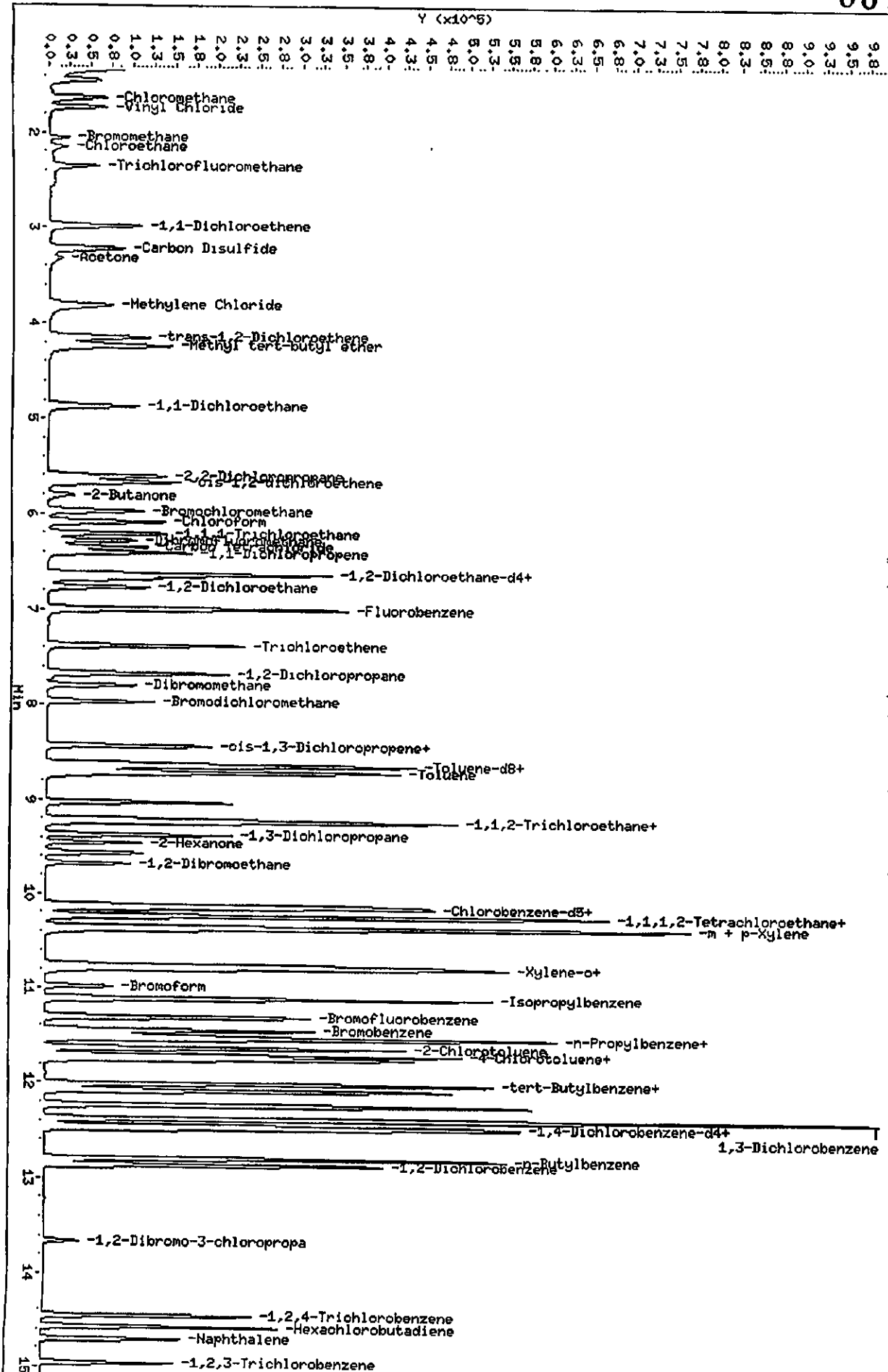
Instrument ID: hp4.i
Lab File ID: CC40818.D
Analysis Type: WATER

Injection Date: 18-AUG-2000 06:26
Lab Sample ID: vstd50
Method File: \\QPITPA02\D\chem\hp4.i\40818d.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
38 Dibromochloromethane	250.0000	380.0815	52.0	50.0
77 1,3-Dichloropropane	250.0000	224.1393	10.3	50.0
111 2-Hexanone	250.0000	329.7738	31.9	50.0
63 1,2-Dibromoethane	250.0000	227.5142	9.0	50.0
101 Chlorobenzene-d5	250.0000	250.0000	0.0	50.0
40 Chlorobenzene	250.0000	216.4735	13.4	50.0
41 Ethylbenzene	250.0000	218.1599	12.7	20.0
64 1,1,1,2-Tetrachloroethane	250.0000	211.4728	15.4	50.0
o m + p-Xylene	500.0000	444.6928	11.1	50.0
o Xylene-o	250.0000	217.3433	13.1	50.0
44 Styrene	250.0000	226.2328	9.5	50.0
45 Bromoform	250.0000	220.7641	11.7	50.0
144 Isopropylbenzene	250.0000	221.0995	11.6	50.0
152 Bromofluorobenzene	250.0000	243.3817	2.6	50.0
84 Bromobenzene	250.0000	202.6979	18.9	50.0
46 1,1,2,2-Tetrachloroethane	250.0000	238.2984	4.7	50.0
83 n-Propylbenzene	250.0000	217.3748	13.1	50.0
65 1,2,3-Trichloropropane	250.0000	244.0099	2.4	50.0
86 2-Chlorotoluene	250.0000	214.1643	14.3	50.0
89 1,2,4-Trimethylbenzene	250.0000	231.3975	7.4	50.0
90 sec-Butylbenzene	250.0000	166.5748	33.4	50.0
85 1,3,5-Trimethylbenzene	250.0000	220.1784	11.9	50.0
87 4-Chlorotoluene	250.0000	216.2528	13.5	50.0
91 4-Isopropyltoluene	250.0000	184.0396	26.4	50.0
88 tert-Butylbenzene	250.0000	216.4642	13.4	50.0
48 1,3-Dichlorobenzene	250.0000	214.6396	14.1	50.0
102 1,4-Dichlorobenzene-d4	250.0000	250.0000	0.0	50.0
49 1,4-Dichlorobenzene	250.0000	209.6570	16.1	50.0
94 n-Butylbenzene	250.0000	222.6784	10.9	50.0
50 1,2-Dichlorobenzene	250.0000	210.4842	15.8	50.0
69 1,2-Dibromo-3-chloropropane	250.0000	231.2119	7.5	50.0
95 1,2,4-Trichlorobenzene	250.0000	211.1521	15.5	50.0
96 Hexachlorobutadiene	250.0000	174.6392	30.1	50.0
97 Naphthalene	250.0000	247.2967	1.1	50.0
98 1,2,3-Trichlorobenzene	250.0000	191.1557	23.5	50.0

Data File: \\sp1tpa02\chem\hp4.1\40818d.b\CC40818.D
 Date: 18-AUG-2000 06:26
 Client ID: vstd50
 Sample Info: vstd50 Sm1
 Volume Injected (ul): 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 10099
 Column diameter: 0.18



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Data File: \\qpitpa02\d\chem\hp4.i\40818d.b\CC40818.D
 Report Date: 18-Aug-2000 06:59

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40818d.b\CC40818.D
 Lab Smp Id: vstd50 Client Smp ID: vstd50
 Inj Date : 18-AUG-2000 06:26 MS Autotune Date: 08-AUG-1996 10:00
 Operator : 10099 Inst ID: hp4.i
 Smp Info : vstd50 5ml
 Misc Info : vstd50,40818d.b,8260bh2o.M
 Comment :
 Method : \\QPITPA02\D\chem\hp4.i\40818d.b\8260bh2o.m
 Meth Date : 18-Aug-2000 06:59 gordonk Quant Type: ISTD
 Cal Date : 10-AUG-2000 12:35 Cal File: 3C40810.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-padep.sub
 Target Version: 4.04
 Processing Host: PITPC073

KLG
8/18/00

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.994	6.994	(1.000)	384594	250.000	
* 69 Chlorobenzene-d5	119	10.118	10.118	(1.000)	92479	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.459	12.459	(1.000)	154329	250.000	
\$ 39 Dibromofluoromethane	113	6.279	6.279	(0.898)	80414	250.000	249.7
\$ 43 1,2-Dichloroethane-d4	65	6.682	6.682	(0.955)	91345	250.000	262.8
\$ 59 Toluene-d8	98	8.645	8.645	(0.854)	365020	250.000	251.4
\$ 80 Bromofluorobenzene	95	11.304	11.304	(1.117)	136265	250.000	243.4
1 Dichlorodifluoromethane	85	1.443	1.443	(0.206)	85337	250.000	222.8
2 Chloromethane	50	1.633	1.633	(0.233)	114570	250.000	207.3
3 Vinyl Chloride	62	1.737	1.737	(0.248)	100973	250.000	211.1
4 Bromomethane	94	2.054	2.054	(0.294)	15724	250.000	212.1
5 Chloroethane	64	2.152	2.152	(0.308)	21906	250.000	243.0
6 Trichlorofluoromethane	101	2.354	2.354	(0.337)	52484	250.000	221.1
12 1,1-Dichloroethene	96	2.984	2.984	(0.427)	65841	250.000	215.7
13 Acetone	43	3.326	3.326	(0.476)	36255	250.000	278.5

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Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ng)	ON-COL (ng)
-----	----	==	=====	-----	-----	-----	-----
15 Carbon Disulfide	76	3 222	3.222	(0.461)	202846	250.000	227.3
18 Methylene Chloride	84	3.815	3 815	(0.545)	68157	250.000	176.0
19 trans-1,2-Dichloroethene	96	4.151	4 151	(0.594)	85516	250 000	217.5
20 Methyl tert-butyl ether	73	4 237	4 237	(0.606)	217949	250.000	261.7
24 1,1-Dichloroethane	63	4.867	4.867	(0.696)	149186	250.000	220.9
27 2,2-Dichloropropane	77	5 612	5 612	(0.802)	105980	250 000	226.8
28 cis-1,2-dichloroethene	96	5.674	5 674	(0.811)	98062	250.000	225.7
M 29 1,2-Dichloroethene (total)	100				183579	500.000	443.6
30 Bromochloromethane	128	5.973	5 973	(0.854)	43186	250 000	215.6
31 2-Butanone	43	5.808	5.808	(0.830)	63563	250.000	328.7
37 Chloroform	83	6.083	6.083	(0.870)	132933	250 000	230.5
38 1,1,1-Trichloroethane	97	6.205	6.205	(0.887)	114181	250.000	231.7
40 1,1-Dichloropropene	75	6.407	6.407	(0.916)	91981	250.000	224.4
41 Carbon Tetrachloride	117	6.352	6.352	(0.908)	91163	250 000	229.0
42 Benzene	78	6 639	6.639	(0.949)	364033	250.000	220.4
45 1,2-Dichloroethane	62	6 768	6 768	(0.968)	103310	250.000	232.4
47 Trichloroethene	130	7 379	7.379	(1.055)	92278	250.000	211.8
49 1,2-Dichloropropane	63	7.673	7.673	(1.097)	89472	250.000	212.4
50 Dibromomethane	93	7.795	7 795	(1.114)	47602	250.000	229.4
53 Bromodichloromethane	83	7.966	7.966	(1.139)	89279	250 000	218.7
57 cis-1,3-Dichloropropene	75	8.431	8.431	(1.205)	115409	250.000	216.2
58 4-Methyl-2-Pentanone	43	8.614	8.614	(0.851)	115118	250.000	303.0
60 Toluene	91	8 712	8.712	(0.861)	396164	250.000	221.4
61 trans-1,3-Dichloropropene	75	8.431	8.431	(0.833)	115409	250 000	225.5
63 1,3-Dichloropropane	76	9.372	9.372	(0.926)	133978	250.000	224.1
64 1,1,2-Trichloroethane	97	9 207	9.207	(0.910)	78351	250.000	226.4
65 Tetrachloroethene	164	9.232	9.232	(0.912)	122524	250 000	346.2
66 2-Hexanone	43	9.458	9.458	(0.935)	84283	250.000	329.8
67 Dibromochloromethane	129	9.232	9.232	(0.912)	116416	250.000	380.1
68 1,2-Dibromoethane	107	9.678	9.678	(0.957)	76836	250.000	227.5
70 Chlorobenzene	112	10.149	10.149	(1.003)	262754	250.000	216.5
71 1,1,1,2-Tetrachloroethane	131	10.240	10.240	(1.012)	77138	250.000	211.5
72 Ethylbenzene	106	10.228	10.228	(1.011)	145984	250.000	218.2
73 m + p-Xylene	106	10.356	10.356	(1.024)	358838	500.000	444.7
74 Xylene-o	106	10.754	10.754	(1.063)	172916	250.000	217.3
M 75 Xylenes (total)	106				531755	250.000	668.4
76 Styrene	104	10.778	10.778	(1.065)	303882	250.000	226.2
77 Bromoform	173	10.986	10.986	(1.086)	41648	250.000	220.8
78 Isopropylbenzene	105	11.108	11.108	(1.098)	453497	250.000	221.1
79 Bromobenzene	156	11.445	11.445	(0.919)	107915	250 000	202.7
81 n-Propylbenzene	120	11.518	11.518	(0.924)	131017	250.000	217.4
82 2-Chlorotoluene	126	11.628	11.628	(0.933)	112013	250.000	214.2
83 1,1,2,2-Tetrachloroethane	83	11 487	11.487	(0.922)	103052	250 000	238.3
84 1,2,3-Trichloropropane	110	11.536	11.536	(0.926)	33250	250.000	244.0
85 4-Chlorotoluene	126	11.750	11.750	(0.943)	115843	250.000	216.2
86 1,3,5-Trimethylbenzene	105	11.707	11.707	(0.940)	363810	250 000	220.2
87 tert-Butylbenzene	119	12.013	12.013	(0.964)	327811	250.000	216.5

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Data File: \\qpitpa02\d\chem\hp4.i\40818d.b\CC40818.D
Report Date: 18-Aug-2000 06:59

Page 3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
88 1,2,4-Trimethylbenzene	105	11.707	11.707	(0.940)	363810	250.000	231.4
89 sec-Butylbenzene	105	11.707	11.707	(0.940)	363810	250.000	166.6
90 4-Isopropyltoluene	119	12.013	12.013	(0.964)	327811	250.000	184.0
91 1,3-Dichlorobenzene	146	12.386	12.386	(0.994)	212314	250.000	214.6
93 1,4-Dichlorobenzene	146	12.484	12.484	(1.002)	210511	250.000	209.6
94 n-Butylbenzene	91	12.796	12.796	(1.027)	350627	250.000	222.7
95 1,2-Dichlorobenzene	146	12.857	12.857	(1.032)	191016	250.000	210.5
96 1,2-Dibromo-3-chloropropane	157	13.664	13.664	(1.097)	13230	250.000	231.2
97 1,2,4-Trichlorobenzene	180	14.458	14.458	(1.160)	87822	250.000	211.2
98 Hexachlorobutadiene	225	14.581	14.581	(1.170)	58461	250.000	174.6
99 Naphthalene	128	14.709	14.709	(1.181)	149607	250.000	247.3
100 1,2,3-Trichlorobenzene	180	14.960	14.960	(1.201)	57240	250.000	191.2

667 155

GC/MS VOLATILE
QC DATA

Date : 10-AUG-2000 12:00

Client ID: 50NGBFB

Instrument: hp4.1

Sample Info: bfb 1ul inj

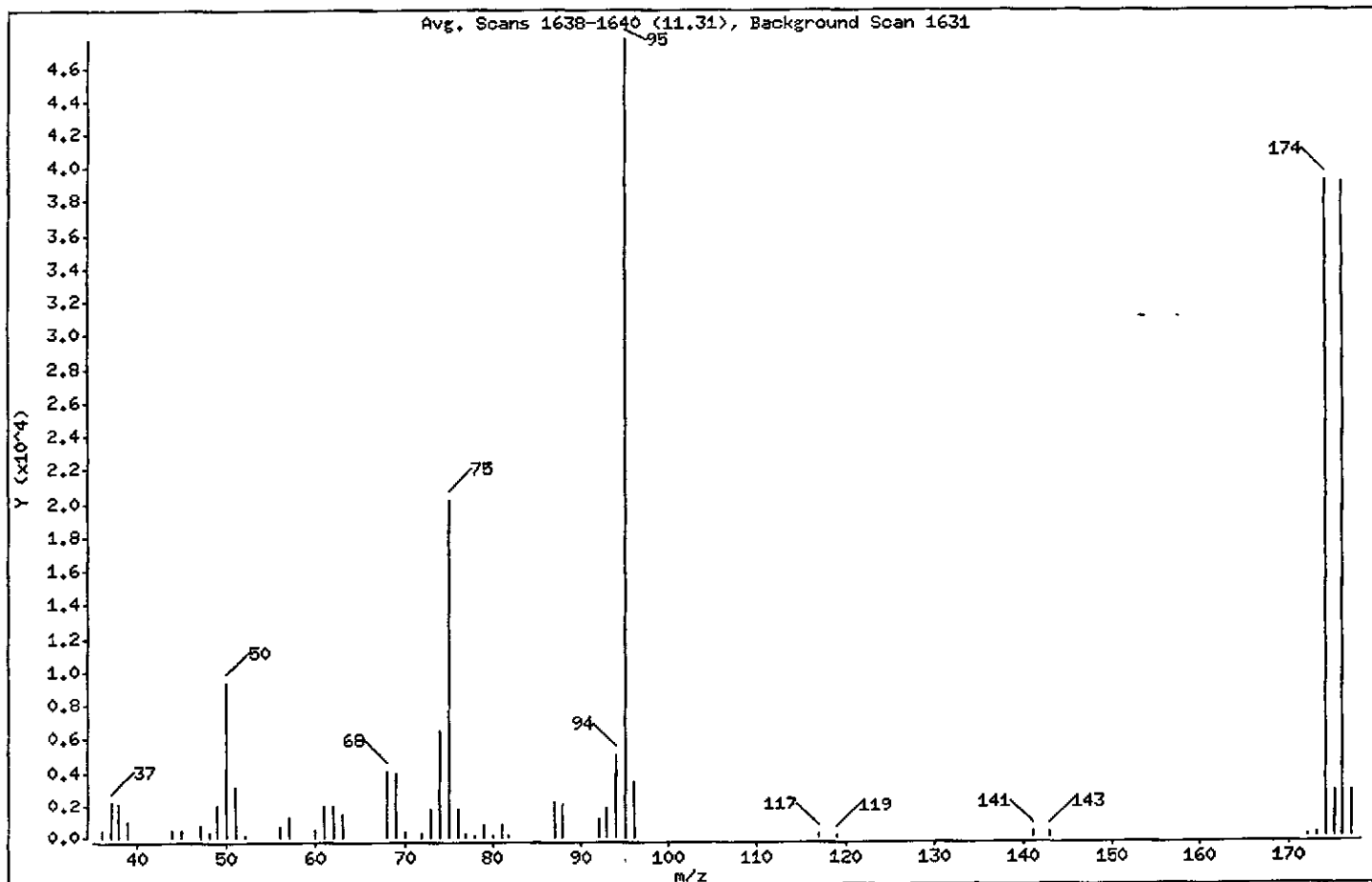
Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

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	19.51
75	30.00 - 60.00% of mass 95	42.21
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.37 (0.45)
174	50.00 - 100.00% of mass 95	81.99
175	5.00 - 9.00% of mass 174	5.65 (6.89)
176	95.00 - 101.00% of mass 174	81.79 (99.76)
177	5.00 - 9.00% of mass 176	5.80 (7.09)

Date : 10-AUG-2000 12:00

Client ID: 50NGBFB

Instrument: hp4.1

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Sample Info: bfb 1ul inj

Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

Data File: CF40810.D

Spectrum: Avg. Scans 1638-1640 (11.31), Background Scan 1631

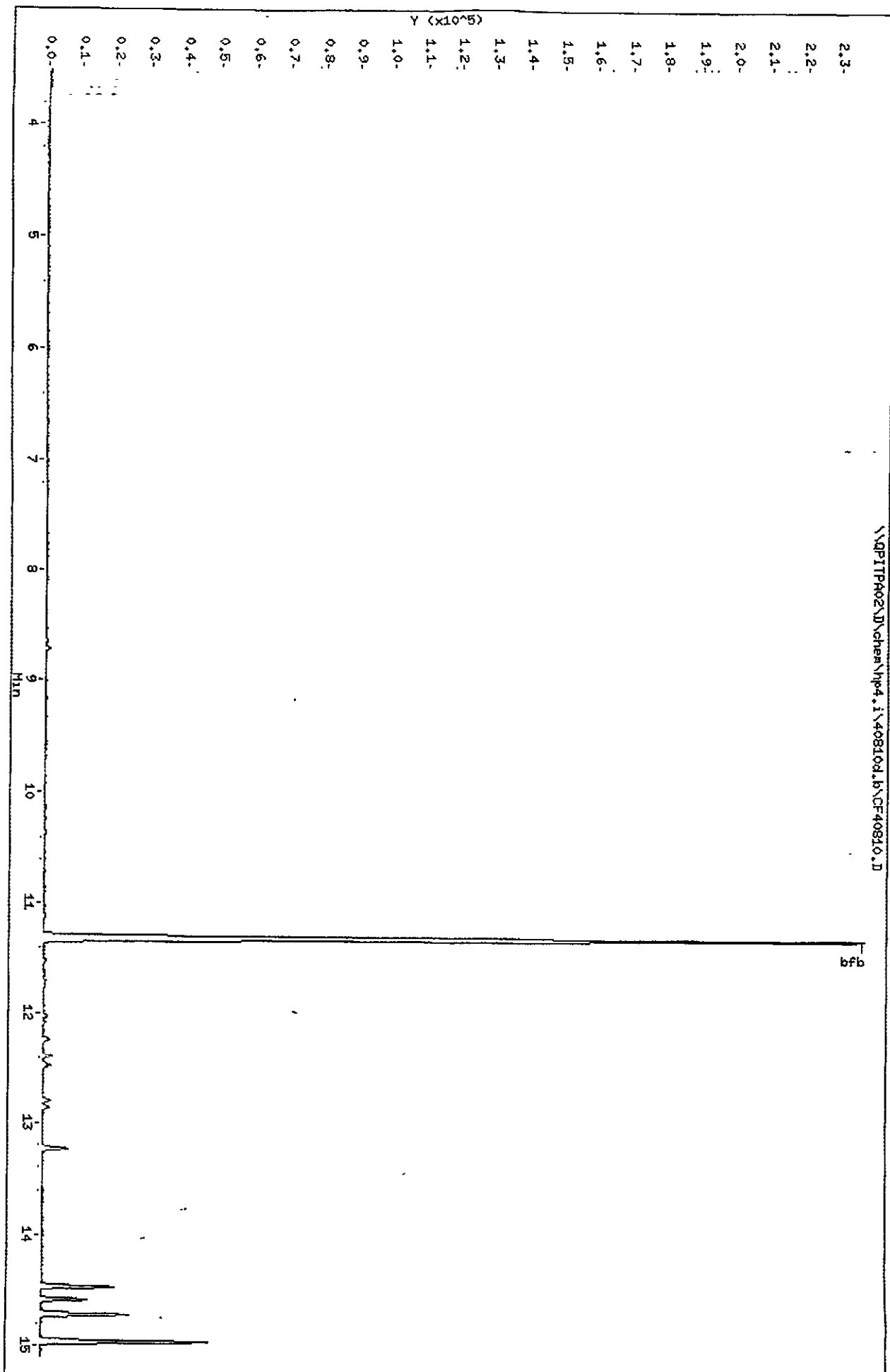
Location of Maximum: 95.00

Number of points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	473	57.00	1184	77.00	272	117.00	175
37.00	2196	60.00	430	78.00	148	119.00	88
38.00	2037	61.00	1977	79.00	774	141.00	349
39.00	933	62.00	1941	80.00	149	143.00	362
44.00	415	63.00	1417	81.00	783	172.00	88
45.00	397	68.00	4008	82.00	67	173.00	176
47.00	788	69.00	3910	87.00	2228	174.00	39112
48.00	297	70.00	281	88.00	2125	175.00	2695
49.00	1951	72.00	235	92.00	1080	176.00	39016
50.00	9308	73.00	1752	93.00	1826	177.00	2766
51.00	3097	74.00	6463	94.00	5013		
52.00	75	75.00	20136	95.00	47704		
56.00	665	76.00	1791	96.00	3437		

Data File: \\NPITPA02\Nchem\hp4.i\40810d.b\CF40810.D
Date: 10-AUG-2000 12:00
Client ID: 50NGBFB
Sample Info: bfb 1u1 inj
Volume Injected (uL): 1.0
Column phase: DB624 20w

Instrument: hp4.i
Operator: 10099
Column diameter: 0.18



Data File: \\QPITPA02\dl\chem\hp4.1\40818d.b\BF40818.D

Date : 18-AUG-2000 05:52

Client ID: 50NGBFB

Instrument: hp4.1

Sample Info: bfb 1ul inj

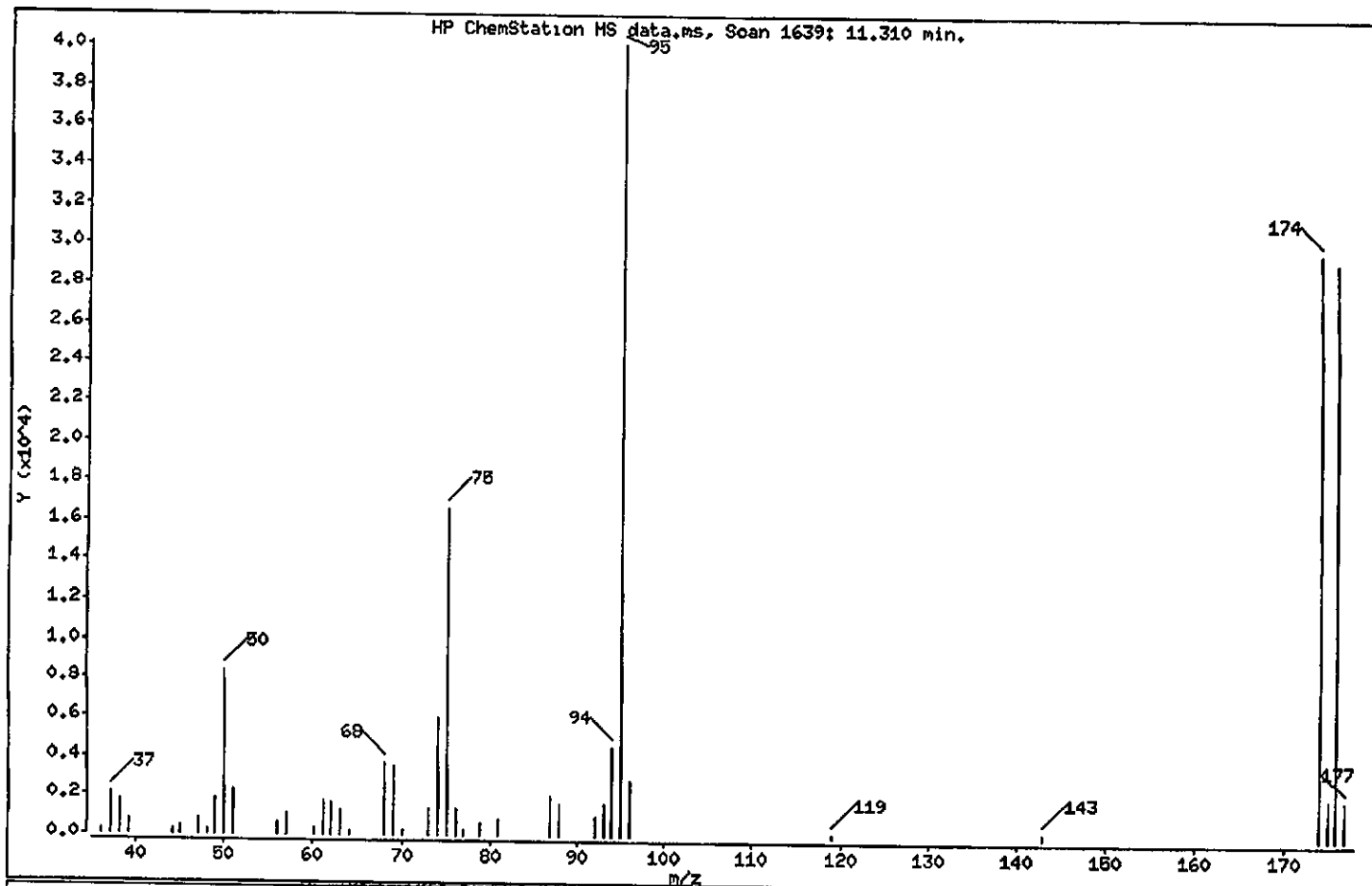
Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

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	20.88
75	30.00 - 60.00% of mass 95	41.83
96	5.00 - 9.00% of mass 95	7.17
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	74.31
175	5.00 - 9.00% of mass 174	5.35 (7.20)
176	95.00 - 101.00% of mass 174	73.11 (98.39)
177	5.00 - 9.00% of mass 176	5.16 (7.06)

Data File: \\QPITPA02\\d\\chem\\hp4.i\\40818d.b\\BF40818.D

Date : 18-AUG-2000 05:52

Client ID: 50NGBFB

Instrument: hp4.i

Sample Info: bfb 1ul inj

Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

Data File: BF40818.D

Spectrum: HP ChemStation MS data.ms, Scan 1639: 11.310 min.

Location of Maximum: 94.95

Number of points: 41

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	309	56.00	603	74.00	6010	94.95	40104
37.10	2105	57.00	1134	75.00	16656	96.05	2875
38.10	1726	60.05	383	76.05	1416	118.95	230
39.05	759	61.05	1748	76.85	271	142.90	272
44.05	314	62.05	1660	78.85	692	173.95	29800
45.05	436	63.05	1300	80.95	794	174.95	2145
47.05	843	64.05	217	86.90	1993	175.95	29320
48.00	242	68.00	3651	87.90	1678	176.95	2071
49.00	1866	69.00	3541	92.00	1008		
50.00	8372	70.00	312	93.00	1690		
51.00	2293	73.00	1379	94.00	4569		

Data File: \\NPITPA02\Nchem\hp4.i\40818d.b\BF40818.D

Date : 18-AUG-2000 05:52

Client ID: 60NGBFB

Sample Info: hfb 1ul inj

Volume Injected (ul): 1.0

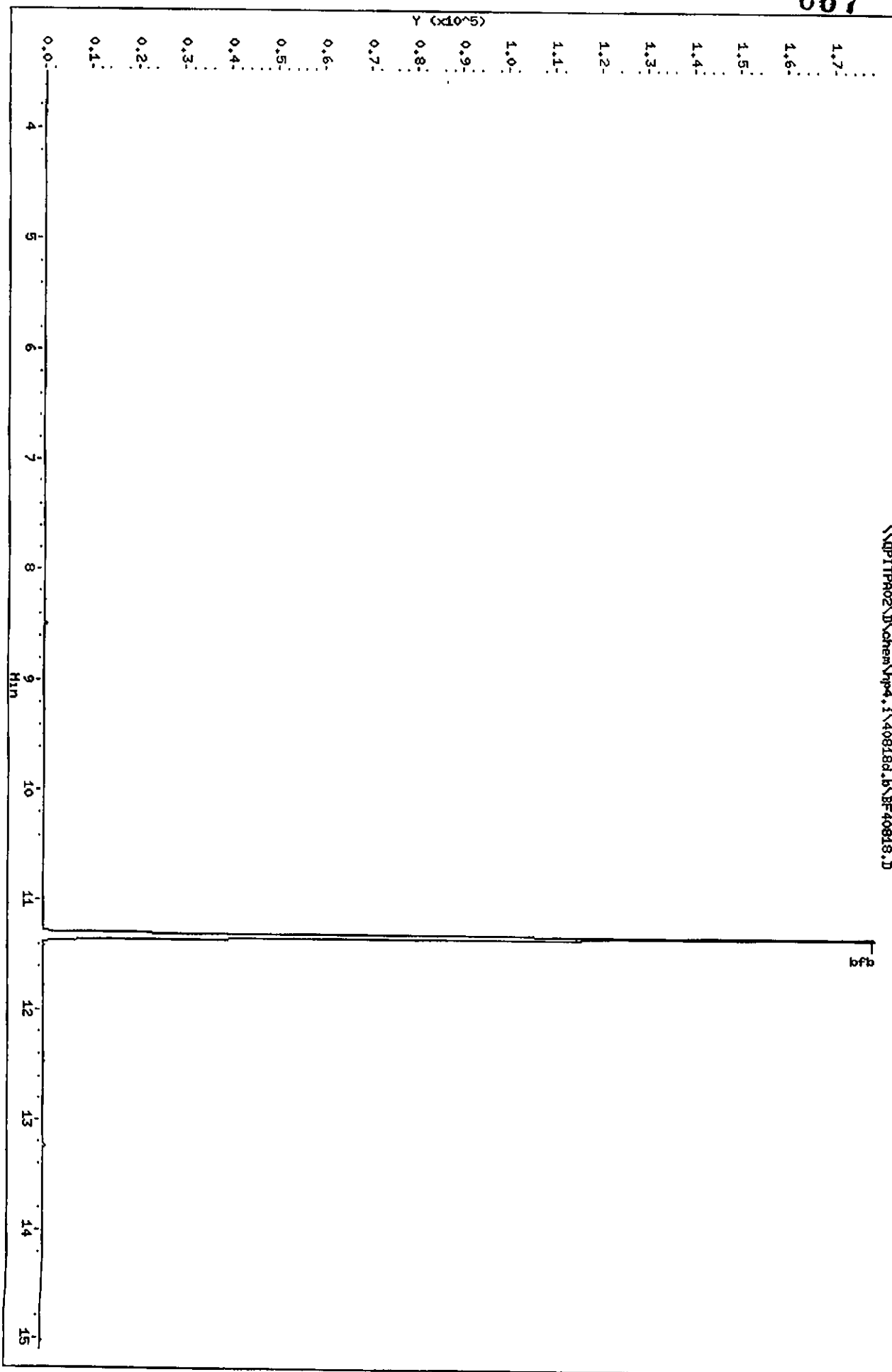
Column phase: DB624 20m

Instrument: hp4.i

Operator: 10099

Column diameter: 0.18

\\NPITPA02\Nchem\hp4.i\40818d.b\BF40818.D



667

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UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H180000 106

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/11/00

Work Order: DJ32V101

Date Extracted: 08/18/00

Dilution factor: 1

Date Analyzed: 08/18/00

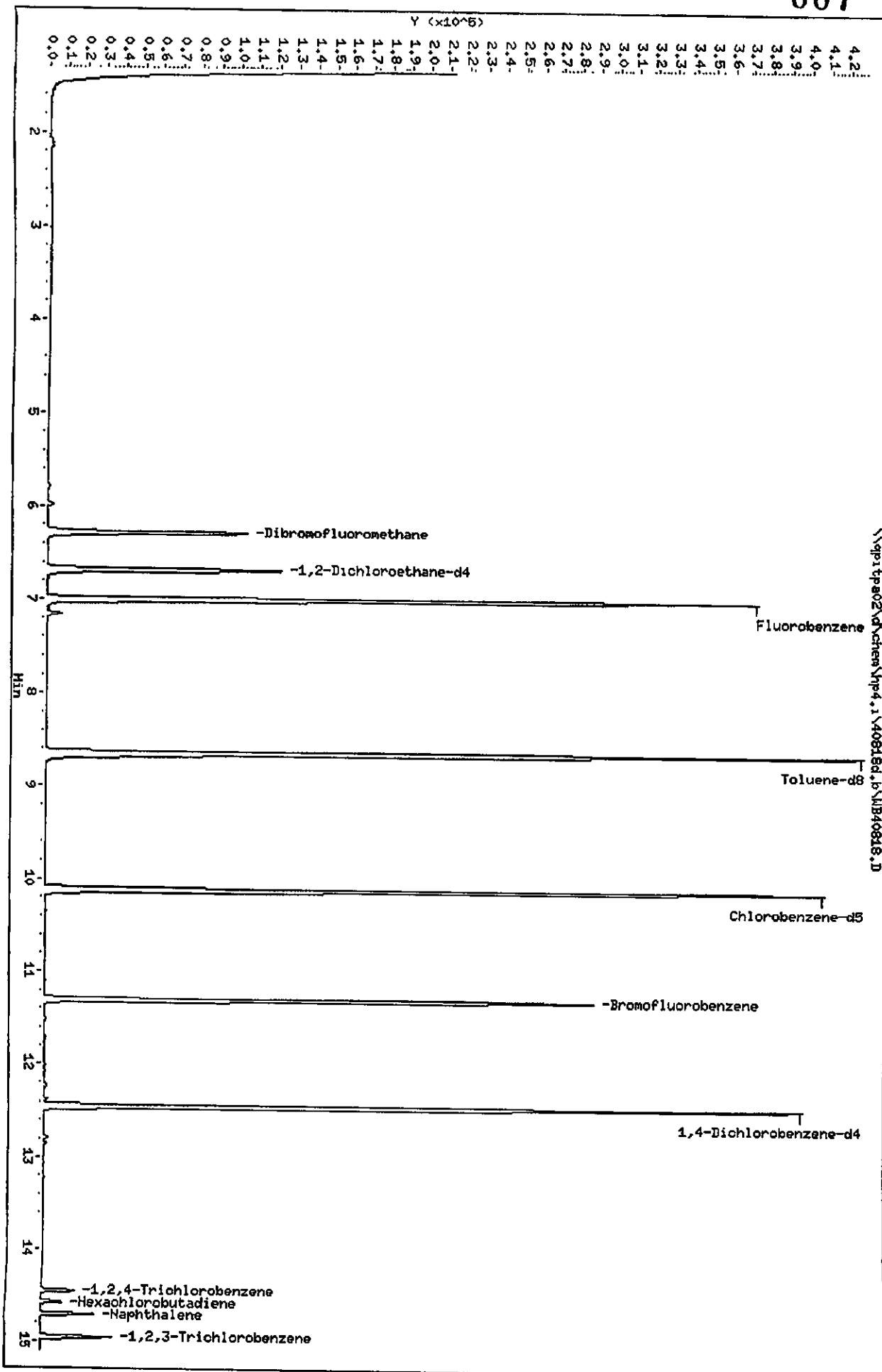
QC Batch: 0231136

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

Data File: \\ppitpa02\chem\hp4.1\40818d.b\MB40818.D
Date: 18-AUG-2000 06:55
Client ID:
Sample Info: TCLP PREP BLANK 8/17/00 (4HL/10HL)/SM
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hp4.1
Operator: 10099
Column diameter: 0.18



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Data File: \\qpitpa02\d\chem\hp4.i\40818d.b\WB40818.D
Report Date: 18-Aug-2000 07:28

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40818d.b\WB40818.D

Lab Smp Id:

Inj Date : 18-AUG-2000 06:55

MS Autotune Date: 08-AUG-1996 10:00

Operator : 10099

Inst ID: hp4.i

Smp Info : TCLP PREP BLANK 8/17/00 (1ML/10ML)/5ML

Misc Info : ,40818d.b,8260bh2o.M

Comment :

Method : \\qpitpa02\d\chem\hp4.i\40818d.b\8260bh2o.m

Meth Date : 18-Aug-2000 06:59 gordonk Quant Type: ISTD

Cal Date : 10-AUG-2000 12:35

Cal File: 3C40810.D

Als bottle: 3

Dil Factor: 1.00000

Integrator: HP RTE

Target Version: 4.04

Processing Host: PITPC073

Compound Sublist: tclp.sub

KLG
8/18/00

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.001	6.994	(1.000)	399213	250.000	
* 69 Chlorobenzene-d5	119	10.119	10.118	(1.000)	91449	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.454	12.459	(1.000)	130570	250.000	
\$ 43 1,2-Dichloroethane-d4	65	6.683	6.682	(0.955)	96479	267.414	53.48
\$ 39 Dibromofluoromethane	113	6.286	6.279	(0.898)	81756	244.543	48.91
\$ 59 Toluene-d8	98	8.645	8.645	(0.854)	364794	254.065	50.81
\$ 80 Bromofluorobenzene	95	11.305	11.304	(1.117)	120938	218.438	43.69
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.					

Data File: \\qpitpa02\d\chem\hp4.i\40818d.b\WB40818.D
 Report Date: 18-Aug-2000 07:28

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 Page 2

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ng)	(UG/L)
-----	----	---		--	-----	-----	-----	-----	-----
65 Tetrachloroethene			164				Compound Not Detected.		
70 Chlorobenzene			112				Compound Not Detected.		

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UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH180000 136

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/11/00

Work Order: DJ34T101

Date Extracted: 08/18/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0231136

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.463	
78-93-3	2-Butanone	0.526	
56-23-5	Carbon tetrachloride	0.503	
108-90-7	Chlorobenzene	0.446	
67-66-3	Chloroform	0.493	
107-06-2	1,2-Dichloroethane	0.495	
75-35-4	1,1-Dichloroethene	0.472	
127-18-4	Tetrachloroethene	0.427	
79-01-6	Trichloroethene	0.444	
75-01-4	Vinyl chloride	0.503	

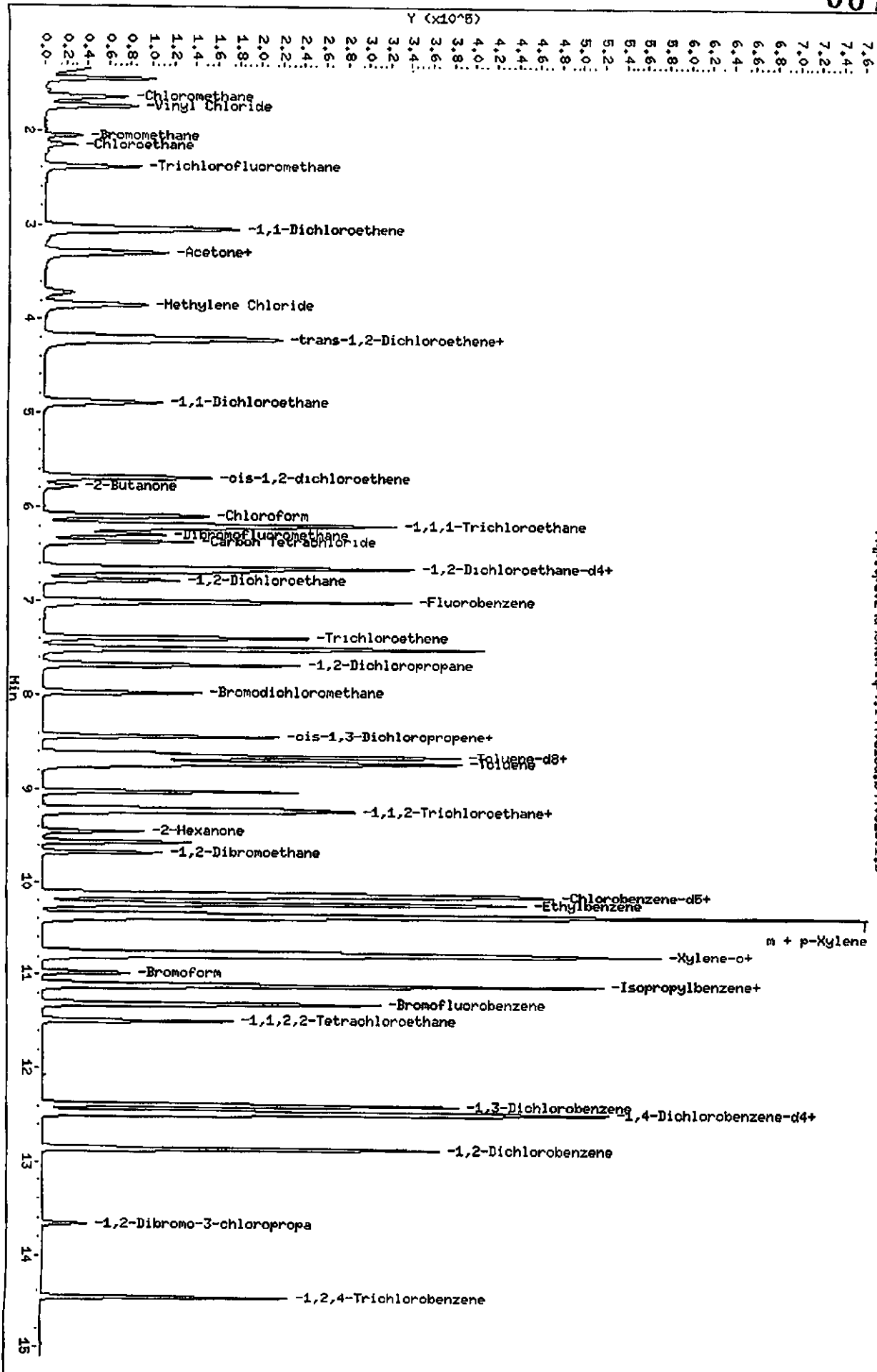
667

167

Data File: \\ppltpa02\chem\hp4.1\40818d.b\4081801.D
 Date : 18-AUG-2000 07:44
 Client ID:
 Sample Injot blank ms (1ml/10ml)/5ml
 Volume Injected (ul): 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 10099
 Column diameter: 0.18

\\ppltpa02\chem\hp4.1\40818d.b\4081801.D



667 168

Data File: \\qpitpa02\d\chem\hp4.i\40818d.b\4081801.D
 Report Date: 18-Aug-2000 08:16

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40818d.b\4081801.D

Lab Smp Id:

Inj Date : 18-AUG-2000 07:44

MS Autotune Date: 08-AUG-1996 10:00

Operator : 10099

Inst ID: hp4.i

Smp Info : blank ms (1ml/10ml)/5ml

Misc Info : ,40818d.b,8260bh2o.M

Comment :

Method : \\qpitpa02\d\chem\hp4.i\40818d.b\8260bh2o.m

Meth Date : 18-Aug-2000 06:59 gordonk Quant Type: ISTD

Cal Date : 10-AUG-2000 12:35

Cal File: 3C40810.D

Als bottle: 5

Dil Factor: 1.00000

Integrator: HP RTE

Target Version: 4.04

Processing Host: PITPC073

Compound Sublist: tclp.sub

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.004	6.994	(1.000)	394292	250.000	
* 69 Chlorobenzene-d5	119	10.121	10.118	(1.000)	93114	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.457	12.459	(1.000)	137831	250.000	
\$ 43 1,2-Dichloroethane-d4	65	6.692	6.682	(0.955)	98223	275.646	55.13
\$ 39 Dibromofluoromethane	113	6.288	6.279	(0.898)	84435	255.708	51.14
\$ 59 Toluene-d8	98	8.654	8.645	(0.855)	377532	258.235	51.65
\$ 80 Bromofluorobenzene	95	11.307	11.304	(1.117)	131792	233.786	46.76
3 Vinyl Chloride	62	1.734	1.737	(0.248)	123261	251.333	50.27
12 1,1-Dichloroethene	96	3.048	2.984	(0.435)	73822	235.886	47.18
31 2-Butanone	43	5.787	5.808	(0.826)	52113	262.841	52.57
37 Chloroform	83	6.093	6.083	(0.870)	145728	246.448	49.29
41 Carbon Tetrachloride	117	6.368	6.352	(0.909)	102549	251.279	50.26
42 Benzene	78	6.649	6.639	(0.949)	391886	231.418	46.28
45 1,2-Dichloroethane	62	6.777	6.768	(0.968)	112834	247.617	49.52
47 Trichloroethene	130	7.389	7.379	(1.055)	99122	221.975	44.39

Data File: \\qpitpa02\d\chem\hp4.i\40818d.b\4081801.D
Report Date: 18-Aug-2000 08:16

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Page 2

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (UG/L)
-----		----	==	=====	=====	=====	=====	-----
65 Tetrachloroethene		164	9.235	9 232	(0.912)	76151	213.709	42.74
70 Chlorobenzene		112	10.152	10 149	(1.003)	272303	222.810	44.56

667 170

GC/MS VOLATILE
MISCELLANEOUS

GCMS Volatile

Run Log

Method: 8260B

Inst. ID HP4

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



Analyst KLG

Reviewed by:

Date:

Std: 92-188-2 BFB Std: 92-187-SInt
Std: 92-187-8MS Std: 92-188-11NOA

Std: 92-188-10MTBE Std: 92-186-6 Ketone
Std:

Date	File ID	Lot No. / Sample No.	Vol. / Wt.	pH	Port#	Comments
5/10/00	1 BFB40810	BFB	50ng			0935
	2. 2040810	VSD50	5ml			
	3. 4081001	TCLP Prep Blank 8/9/00	(1ml/10ml) 5ml			
	4. 4081002 CF40810	BFB	50ng			not run
	5. 3040810	VSD50	5ml			1700
	6. 1A40810	VSD5	5ml			
	7. 1B40810	VSD20	5ml			
	8. 1D40810	VSD100	5ml			
	9. 1E40810	VSD200	5ml			
	10. 4081001	VBLK	5ul			
	11. 4081002	VBLK	5ul			
	12. 2A40810	VSD5	5ul			
	13. 4081003	PB BULK	(1.2/10.2) 5.0	5		
	14.					
	15.					
	16.					
	17.					
	18.					
	19.					
	20.					
	21.					
	22.					

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GCMS Volatile

Run Log

Method: 8260BInst. ID HP4

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

Analyst KLG

Reviewed by: _____

Date: _____

Std: 192-189-5BFB Std: 192-189-11H7Std: 192-188-DMTBE/CS2 Std: 192-188-11NOAStd: 192-188-6ketones Std: 192-187-4MS

Std: _____

Date	File ID	Lot No. / Sample No.	Vol. / Wt.	pH	Port#	Comments
8/18/00	1. 13F40818	TBF	50mg			0552
	2. C040818	V8150	5ml			
	3. VB40818	TEP Prep Blank x1710	(1ml/10ml) / 5ml	5		
	4. VB40818	VBK	5ml			
	5. 4081801	Blank MS	(1ml/10ml) / 5ml	5		
	6. 4081802	C0H10155-001	(1ml/10ml) / 5ml	5		
	7. 4081803	Blank MS	5ml			
	8. 4081804	C0H10155-009	(1ml/10ml) / 5ml	5		②
	9. 4081805	C0H10155-001	5ml	1		
	10. 4081806	C0H10155-009	(1ml/10ml) / 5ml	5		
	11. 4081807	C0H10155-001 MS	(1ml/10ml) / 5ml	5		
	12. 4081808	C0H10155-001 MSB	(1ml/10ml) / 5ml	5		
	13. 4081809	C0H120157-001	(1ml/10ml) / 5ml	5		
	14. 4081810	C0H120157-002	(1ml/10ml) / 5ml	5		
	15. 4081811	C0H120157-003	(1ml/10ml) / 5ml	5		
	16. 4081812					
	17. 4081813					
	18. 4081814					
	19. 4081815					
	20.					
	21.					
	22.					

ZHE Leachate Worksheet

(Method 1311)

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

Committed To Your Success

9023102

[illegible]

I:\QALogbooks\ZHE

667 174

PSR024 8/17/00 5:12:53 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: TROUT

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

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
		CNTR#								RCVD	REQD
21B,C CLP1	DHPDW-3-01	___	259751	054156	A-58-QK	COH110155	001		SOLID	0	4 1
21B,C CLP1	DHPED-1-01	___	259752	054156	A-58-QK	COH110155	009		SOLID	0	4 1

COH120157-001
002
003

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Ka Trout
B Trout

B Trout
Ka Trout

8/17/2000 08:05
8/17/2000 08:45

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

667 175

GC/MS SEMIVOLATILE DATA

667 176

**GC/MS SEMIVOLATILE
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: COH120157

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC	51	45	84	44	51	75	00
02	DF/S1/0224/GRAB/005	60	64	92	51	59	84	00
03	DF/S1/0224/SDC/024	50	52	88	39	50	72	00
04	DF/S1/0224/SDC/025	68	71	90	55	66	87	00
05	METHOD BLK. DJ213101	67	72	80	63	70	81	00
06	LCS DJ213102	80	85	87	78	83	95	00
07	LAB MS/MSD D	53	50	79	45	52	76	00
08	LAB MS/MSD S	51	48	78	43	53	75	00

SURROGATES

SRG01 = Nitrobenzene-d5
 SRG02 = 2-Fluorobiphenyl
 SRG03 = Terphenyl-d14
 SRG04 = 2-Fluorophenol
 SRG05 = Phenol-d5
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(32-112)
 (30-110)
 (10-144)
 (13-110)
 (10-113)
 (21-122)

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

FORM II

667 178

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0H170000

WO #: DJ213102

BATCH: 0230349

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.200	80	28- 110	
2,4-Dinitrotoluene	0.250	0.212	85	47- 131	
Hexachlorobenzene	0.250	0.233	93	57- 128	
Hexachlorobutadiene	0.250	0.209	83	36- 116	
Hexachloroethane	0.250	0.200	80	30- 110	
Nitrobenzene	0.250	0.206	82	45- 130	
Pentachlorophenol	0.250	0.229	92	10- 140	
Pyridine	0.250	0.222	89	10- 148	
2,4,5-Trichlorophenol	0.250	0.222	89	41- 125	
2,4,6-Trichlorophenol	0.250	0.217	87	46- 135	
Cresols (total)	0.750	0.648	86	29- 144	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

667 179

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 #: COH110155

WO #: DHPDW117

BATCH: 0230349

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene	0.250	ND	0.111	44	18 - 110	
2,4-Dinitrotoluene	0.250	ND	0.163	65	31 - 131	
Hexachlorobenzene	0.250	ND	0.191	77	36 - 132	
Hexachlorobutadiene	0.250	ND	0.106	43	18 - 116	
Hexachloroethane	0.250	ND	0.105	42	18 - 110	
Nitrobenzene	0.250	ND	0.131	52	10 - 211	
Pentachlorophenol	0.250	ND	0.182	73	10 - 140	
Pyridine	0.250	ND	0.127	51	10 - 148	
2,4,5-Trichlorophenol	0.250	ND	0.148	59	24 - 143	
2,4,6-Trichlorophenol	0.250	ND	0.142	57	36 - 135	
Cresols (total)	0.750	ND	0.426	57	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:

667 180

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 #: C0H110155

WO #: DHPDW118

BATCH: 0230349

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD		QC LIMITS			QUAL
			% REC	% RPD	RPD	REC		
1,4-Dichlorobenzene	0.250	0.113	45	2.0	36	18 - 110		
2,4-Dinitrotoluene	0.250	0.160	64	2.2	32	31 - 131		
Hexachlorobenzene	0.250	0.195	78	2.0	22	36 - 132		
Hexachlorobutadiene	0.250	0.112	45	4.8	32	18 - 116		
Hexachloroethane	0.250	0.106	42	1.3	33	18 - 110		
Nitrobenzene	0.250	0.136	54	3.6	50	10 - 211		
Pentachlorophenol	0.250	0.184	73	1.1	56	10 - 140		
Pyridine	0.250	0.127	51	0.0	65	10 - 148		
2,4,5-Trichlorophenol	0.250	0.155	62	4.6	22	24 - 143		
2,4,6-Trichlorophenol	0.250	0.148	59	3.9	27	36 - 135		
Cresols (total)	0.750	0.410	55	3.9	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

667

181

BLANK WORKORDER NO.

SW846 8270C METHOD BLANK SUMMARY

DJ213101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D0818004.

Lot Number: C0H120157

Date Analyzed: 08/18/00

Time Analyzed: 19:32

Matrix: SOLID

Date Extracted:08/16/00

GC Column: HP5MS ID: .25

Extraction Method: 1311/3520C

Instrument ID: 721

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	DHPDW102	D0819002.	08/19/00	15:43
02	LAB MS/MSD	DHPDW117 S	D0819003.	08/19/00	16:12
03	LAB MS/MSD	DHPDW118 D	D0819004.	08/19/00	16:42
04	DF/S1/0224/GRAB/005	DHGXN103	D0819015.	08/19/00	22:05
05	DF/S1/0224/SDC/024	DHGXQ103	D0819016.	08/19/00	22:35
06	DF/S1/0224/SDC/025	DHGXK103	D0819017.	08/19/00	23:04
07	CHECK SAMPLE	DJ213102 C	D0818005.	08/18/00	20:02
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

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

667 182

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0H120157

Lab File ID: D0818DFT

DFTPP Injection Date: 08/18/00

Instrument ID: 721

DFTPP Injection Time: 1313

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.8
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	6.2
275	10.0 - 30.0% of mass 198	23.5
365	Greater than 1.0% of mass 198	1.31
441	Present, but less than mass 443	11.7
442	Greater than 40.0% of mass 198	82.1
443	17.0 - 23.0% of mass 442	15.1 (18.4)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	SSTD020	SSTD20	D0818CC1	08/18/00	1334
02	SSTD050	SSTD50	D0818CC2	08/18/00	1404
03	SSTD080	SSTD80	D0818CC3	08/18/00	1434
04	SSTD120	SSTD120	D0818CC4	08/18/00	1504
05	SSTD160	SSTD160	D0818CC5	08/18/00	1533
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

667 183

Contract:

SDG No.: C0H120157

DFTPP Injection Date: 08/18/00

DFTPP Injection Time: 1649

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	SSTD050	SSTD50	D0818CCC	08/18/00	1729
02	INTRA-LAB BL	DJ213101	D0818004	08/18/00	1932
03	LCS	DJ213102	D0818005	08/18/00	2002
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

667 184

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0H120157

Lab File ID: D0819DF3

DFTPP Injection Date: 08/19/00

Instrument ID: 721

DFTPP Injection Time: 1423

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	57.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.8
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	6.8
275	10.0 - 30.0% of mass 198	25.8
365	Greater than 1.0% of mass 198	1.62
441	Present, but less than mass 443	10.6
442	Greater than 40.0% of mass 198	78.2
443	17.0 - 23.0% of mass 442	15.1 (19.3)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	SSTD050	SSTD50	D0819CCC	08/19/00	1444
02	DF/S1/0224/G	DHGXN103	D0819015	08/19/00	2205
03	DF/S1/0224/S	DHGXQ103	D0819016	08/19/00	2235
04	DF/S1/0224/S	DHGX R103	D0819017	08/19/00	2304
05					
06					
07					
08					
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19					
20					
21					
22					

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

667 185

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0H120157

Lab File ID (Standard): D0818CCC

Date Analyzed: 08/18/00

Instrument ID: 721

Time Analyzed: 1729

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	96229	4.63	325569	5.86	172061	8.43
UPPER LIMIT	192458	5.13	651138	6.36	344122	8.93
LOWER LIMIT	48115	4.13	162785	5.36	86031	7.93
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	101500	4.63	368274	5.85	194048	8.42
02 LCS	93352	4.63	324310	5.85	177159	8.42
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
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.

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: COH120157

Lab File ID (Standard): D0818CCC

Date Analyzed: 08/18/00

Instrument ID: 721

Time Analyzed: 1729

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	301209	11.31	258869	17.16	197368	20.12
UPPER LIMIT	602418	11.81	517738	17.66	394736	20.62
LOWER LIMIT	150605	10.81	129435	16.66	98684	19.62
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	341157	11.30	299661	17.14	256927	20.11
02 LCS	314510	11.30	290890	17.14	248509	20.11
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
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 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

667 187

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0H120157

Lab File ID (Standard): D0819CCC

Date Analyzed: 08/19/00

Instrument ID: 721

Time Analyzed: 1444

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	132827	4.62	443861	5.85	242512	8.42
UPPER LIMIT	265654	5.12	887722	6.35	485024	8.92
LOWER LIMIT	66414	4.12	221931	5.35	121256	7.92
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0224/G	140933	4.62	492348	5.84	268872	8.41
02 DF/S1/0224/S	142983	4.62	518296	5.84	298995	8.41
03 DF/S1/0224/S	133992	4.62	468996	5.84	261761	8.41
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
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.

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0H120157

Lab File ID (Standard): D0819CCC

Date Analyzed: 08/19/00

Instrument ID: 721

Time Analyzed: 1444

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	436531	11.30	376616	17.14	297053	20.11
UPPER LIMIT	873062	11.80	753232	17.64	594106	20.61
LOWER LIMIT	218266	10.80	188308	16.64	148527	19.61
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0224/G	449735	11.29	350827	17.12	306962	20.09
02 DF/S1/0224/S	512724	11.29	398655	17.13	343151	20.10
03 DF/S1/0224/S	436079	11.29	343069	17.13	306331	20.10
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
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.

667 189

**GC/MS SEMIVOLATILE
SAMPLE DATA**

667 190

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/12/00

Work Order: DHQXN103

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/19/00

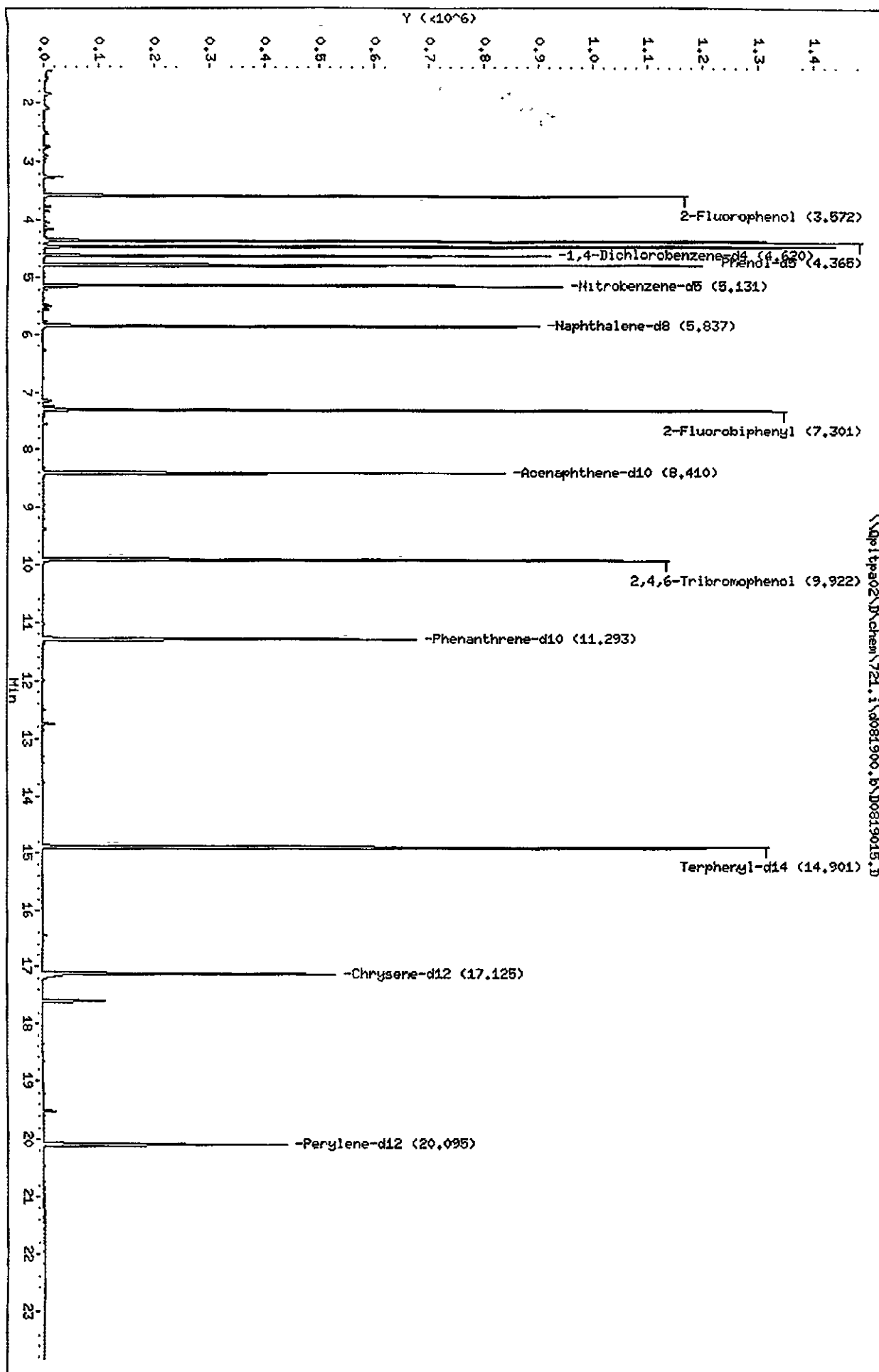
QC Batch: 0230349

Client Sample Id: DF/S1/0224/GRAB/005

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: \\np1tpa02\chem\721.i\081900.b\0819015.D
Date: 19-AUG-2000 22:05
Client ID: DF/SL/0224/GRB/005
Sample Info: C0H12O157-001 tolp 8/16/00 82700
Volume Injected (uL): 2.0
Column phase: Hp8-MS

Instrument: 721.i
Operator: 001562, DLF
Column diameter: 0.25



667 192

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081900.b\D0819015.D
Lab Smp Id: DHQXN103 Client Smp ID: DF/S1/0224/GRAB/005
Inj Date : 19-AUG-2000 22:05
Operator : 001562, DLF Inst ID: 721.i
Smp Info : C0h120157-001 tclp 8/16/00 8270c
Misc Info : dhqxn103,d081900.b,8270c.m,tclp.sub
Comment :
Method : \\Qpitpa02\D\chem\721.i\d081900.b\8270c.m
Meth Date : 21-Aug-2000 07:32 ferguson Quant Type: ISTD
Cal Date : 18-AUG-2000 15:33 Cal File: D0818CC5.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

ALP
8-21-00

Compound Sublist: tclp.sub

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

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)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.620	4.624	(1.000)	140933	40.0000	(aQ)
* 2 Naphthalene-d8	136	5.836	5.847	(1.000)	492348	40.0000	(a)
* 3 Acenaphthene-d10	164	8.410	8.421	(1.000)	268872	40.0000	(a)
* 4 Phenanthrene-d10	188	11.285	11.296	(1.000)	449735	40.0000	(a)
* 5 Chrysene-d12	240	17.124	17.142	(1.000)	350827	40.0000	(a)
* 6 Perylene-d12	264	20.094	20.105	(1.000)	306962	40.0000	(a)
9 Pyridine	79				Compound Not Detected.		
27 1,4-Dichlorobenzene	146				Compound Not Detected.		
M 195 Cresols, total	100				Compound Not Detected.		
30 2-Methylphenol	108				Compound Not Detected.		
192 4-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
56 Hexachlorobutadiene	224				Compound Not Detected.		

667 193

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (mg/L)
-----	----	==	-----	-----	-----	-----	-----
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	265				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.131	5.142	(0.879)	292569	60.2918	0.15073(a)
\$ 155 2-Fluorobiphenyl	172	7.301	7.305	(0.868)	559164	63.8249	0.15956(a)
\$ 156 Terphenyl-d14	244	14.900	14.898	(0.870)	776953	92.1176	0.23029(a)
\$ 157 Phenol-d5	99	4.365	4.362	(0.945)	498773	87.9278	0.21982(a)
\$ 158 2-Fluorophenol	112	3.572	3.569	(0.773)	363523	76.2095	0.19052(a)
\$ 159 2,4,6-Tribromophenol	330	9.921	9.926	(0.879)	224880	125.676	0.31419(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.

667 194

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH120157 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/12/00

Work Order: DHQXQ103

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/19/00

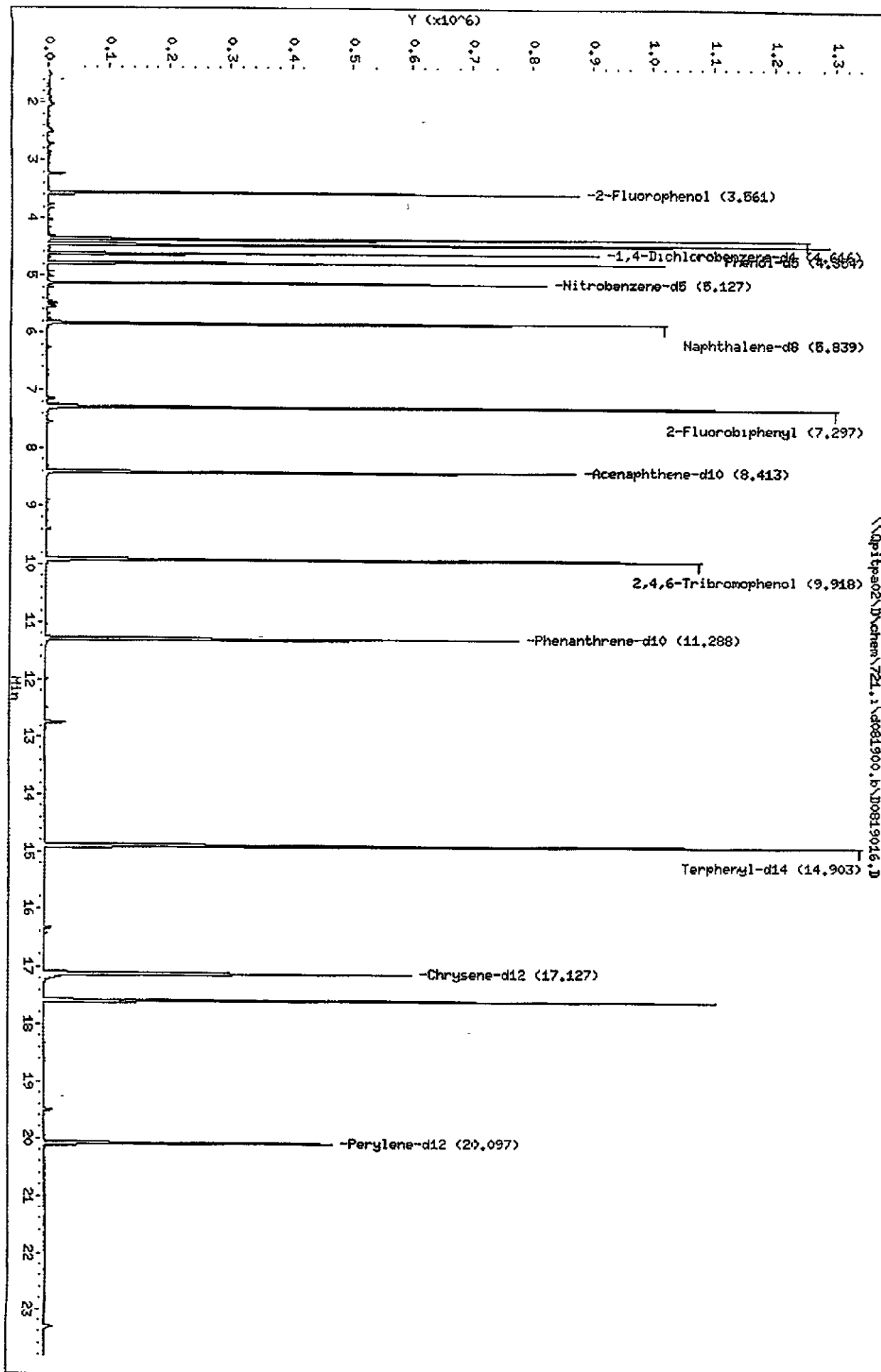
QC Batch: 0230349

Client Sample Id: DF/S1/0224/SDC/024

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: \\qptp02\chem\721.1\081900.b\0819016.D
Date: 19-AUG-2000 22:35
Client ID: DF/S1/0224/SDC/024
Sample Info: C0H12O157-002 tcip 8/16/00 82700
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 721.i
Operator: 001562, DLF
Column diameter: 0.25



667 196

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081900.b\D0819016.D
Lab Smp Id: DHQXQ103 Client Smp ID: DF/S1/0224/SDC/024
Inj Date : 19-AUG-2000 22:35
Operator : 001562, DLF Inst ID: 721.i
Smp Info : C0h120157-002 tclp 8/16/00 8270c
Misc Info : dhqxq103,d081900.b,8270c.m,tclp.sub
Comment :
Method : \\Qpitpa02\D\chem\721.i\d081900.b\8270c.m
Meth Date : 21-Aug-2000 07:32 ferguson Quant Type: ISTD
Cal Date : 18-AUG-2000 15:33 Cal File: D0818CC5.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

DLH
8-21-00

Compound Sublist: tclp.sub

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

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)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.616	4.624	(1.000)	142983	40.0000	(aQ)
* 2 Naphthalene-d8	136	5.839	5.847	(1.000)	518296	40.0000	(a)
* 3 Acenaphthene-d10	164	8.412	8.421	(1.000)	298995	40.0000	(a)
* 4 Phenanthrene-d10	188	11.288	11.296	(1.000)	512724	40.0000	(a)
* 5 Chrysene-d12	240	17.127	17.142	(1.000)	398655	40.0000	(a)
* 6 Perylene-d12	264	20.097	20.105	(1.000)	343151	40.0000	(a)
9 Pyridine	79				Compound Not Detected.		
27 1,4-Dichlorobenzene	146				Compound Not Detected.		
M 195 Cresols, total	100				Compound Not Detected.		
30 2-Methylphenol	108				Compound Not Detected.		
192 4-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
56 Hexachlorobutadiene	224				Compound Not Detected.		

667 197

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (mg/L)
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	265				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.126	5.142 (0.878)		254627	49.8458	0.12461(a)
\$ 155 2-Fluorobiphenyl	172	7.297	7.305 (0.867)		507100	52.0506	0.13013(a)
\$ 156 Terphenyl-d14	244	14.903	14.898 (0.870)		844354	88.0985	0.22025(a)
\$ 157 Phenol-d5	99	4.354	4.362 (0.943)		432713	75.1885	0.18797(a)
\$ 158 2-Fluorophenol	112	3.561	3.569 (0.771)		286228	59.1450	0.14786(a)
\$ 159 2,4,6-Tribromophenol	330	9.924	9.926 (0.879)		219294	107.498	0.26875(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.

667 198

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/12/00

Work Order: DHQXR103

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/19/00

QC Batch: 0230349

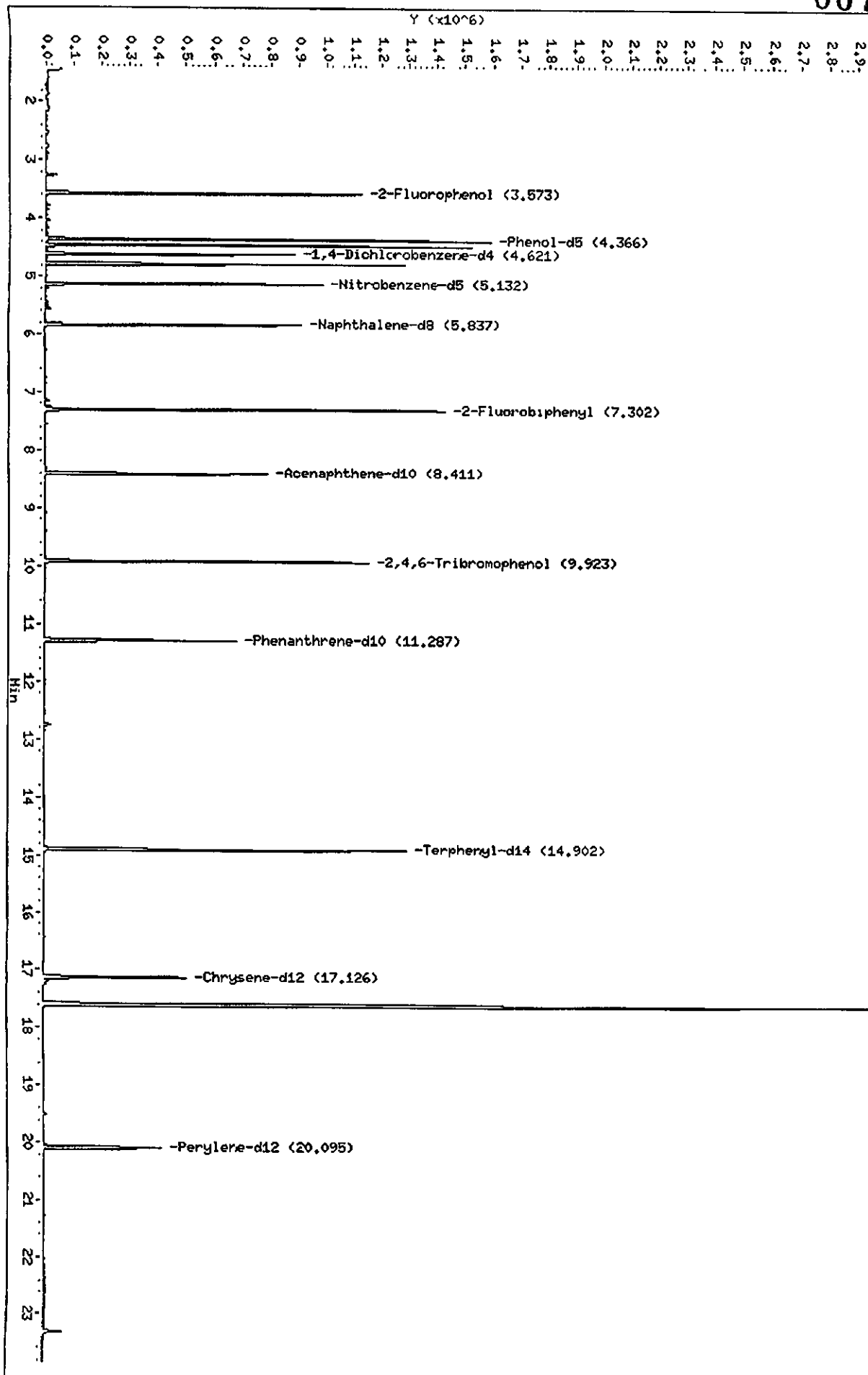
Client Sample Id: DF/S1/0224/SDC/025

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: \\qipitpa02\chem\721.1\0081900.b\00819017.D
Date: 19-AUG-2000 23:04
Client ID: DF/S1/0224/SIC/025
Sample Info: C0H12O157-003 tcip 8/16/00 8270c
Volume Injected (uL): 2.0
Column phase: HP5-MS

Instrument: 721.1
Operator: 001562, MLF
Column diameter: 0.25

\\qipitpa02\chem\721.1\0081900.b\00819017.D



667 200

STL Pittsburgh

Semivolatiles REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081900.b\D0819017.D
 Lab Smp Id: DHQXR103 Client Smp ID: DF/S1/0224/SDC/025
 Inj Date : 19-AUG-2000 23:04
 Operator : 001562, DLF Inst ID: 721.i
 Smp Info : C0h120157-003 tclp 8/16/00 8270c
 Misc Info : dhqxr103,d081900.b,8270c.m,tclp.sub
 Comment :
 Method : \\Qpitpa02\D\chem\721.i\d081900.b\8270c.m
 Meth Date : 21-Aug-2000 07:32 ferguson Quant Type: ISTD
 Cal Date : 18-AUG-2000 15:33 Cal File: D0818CC5.D
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC013

DLH
8-21-00

Compound Sublist: tclp.sub

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

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)

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.621	4.624	(1.000)	133992	40.0000	(aQ)	
* 2 Naphthalene-d8	136	5.837	5.847	(1.000)	468996	40.0000	(a)	
* 3 Acenaphthene-d10	164	8.410	8.421	(1.000)	261761	40.0000	(a)	
* 4 Phenanthrene-d10	188	11.286	11.296	(1.000)	436079	40.0000	(a)	
* 5 Chrysene-d12	240	17.125	17.142	(1.000)	343069	40.0000	(a)	
* 6 Perylene-d12	264	20.095	20.105	(1.000)	306331	40.0000	(a)	
9 Pyridine	79				Compound Not Detected.			
27 1,4-Dichlorobenzene	146				Compound Not Detected.			
M 195 Cresols, total	100				Compound Not Detected.			
30 2-Methylphenol	108				Compound Not Detected.			
192 4-Methylphenol	108				Compound Not Detected.			
34 Hexachloroethane	117				Compound Not Detected.			
35 Nitrobenzene	77				Compound Not Detected.			
56 Hexachlorobutadiene	224				Compound Not Detected.			

667 201

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (mg/L)
66 2,4,6-Trichlorophenol	196				Compound Not Detected		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	265				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.131	5.142	(0.879)	312619	67.6314	0.16908(a)
\$ 155 2-Fluorobiphenyl	172	7.302	7.305	(0.868)	601909	70.5703	0.17642(a)
\$ 156 Terphenyl-d14	244	14.901	14.898	(0.870)	739649	89.6778	0.22419(a)
\$ 157 Phenol-d5	99	4.365	4.362	(0.945)	530001	98.2729	0.24568(a)
\$ 158 2-Fluorophenol	112	3.579	3.569	(0.775)	374715	82.6252	0.20656(a)
\$ 159 2,4,6-Tribromophenol	330	9.922	9.926	(0.879)	226719	130.672	0.32668(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.

667 202

**GC/MS SEMIVOLATILE
CALIBRATION DATA**

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

667 203

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0H120157

Instrument ID: 721

Calibration Date(s): 08/18/00

Min RRF for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF1	=D0818CC1.D	RRF2	=D0818CC2.D			
RRF3		=D0818CC3.D	RRF4	=D0818CC4.D	RRF5	=D0818CC5.D		
COMPOUND		RRF1	RRF2	RRF3	RRF4	RRF5	RRF	% RSD
=====		=====	=====	=====	=====	=====	=====	=====
Phenol	*	1.677	1.823	1.607	1.615	1.580	1.660	5.9*
bis(2-Chloroethyl) ether		1.254	1.326	1.195	1.216	1.214	1.241	4.2
2-Chlorophenol		1.359	1.434	1.327	1.372	1.382	1.375	2.8
1,3-Dichlorobenzene		1.436	1.526	1.433	1.473	1.430	1.460	2.8
1,4-Dichlorobenzene	*	1.483	1.589	1.457	1.471	1.438	1.488	4.0*
1,2-Dichlorobenzene		1.348	1.466	1.343	1.367	1.334	1.372	4.0
2-Methylphenol		1.112	1.224	1.106	1.137	1.149	1.146	4.1
2,2'-oxybis(1-Chloropropane		1.616	1.702	1.546	1.574	1.507	1.589	4.7
4-Methylphenol		1.192	1.316	1.164	1.192	1.202	1.213	4.9
Hexachloroethane		0.646	0.678	0.641	0.654	0.646	0.653	2.3
Nitrobenzene		0.372	0.412	0.382	0.388	0.379	0.387	3.9
Isophorone		0.632	0.693	0.629	0.645	0.661	0.652	4.0
2-Nitrophenol	*	0.210	0.229	0.215	0.218	0.217	0.218	3.2*
2,4-Dimethylphenol		0.352	0.394	0.361	0.370	0.377	0.371	4.3
bis(2-Chloroethoxy) methane		0.392	0.427	0.392	0.397	0.403	0.402	3.6
N-Nitroso-di-n-propylamine	#	0.827	0.888	0.787	0.828	0.798	0.826	4.8#
2,4-Dichlorophenol	*	0.297	0.329	0.308	0.309	0.317	0.312	3.8*
1,2,4-Trichlorobenzene		0.333	0.360	0.343	0.355	0.352	0.349	3.1
Naphthalene		0.990	1.070	1.013	1.038	1.026	1.027	2.9
4-Chloroaniline		0.414	0.450	0.413	0.421	0.419	0.423	3.6
Hexachlorobutadiene	*	0.204	0.221	0.215	0.220	0.216	0.215	3.1*
4-Chloro-3-Methylphenol		0.295	0.334	0.298	0.305	0.301	0.307	5.1
2-Methylnaphthalene		0.621	0.699	0.636	0.657	0.658	0.654	4.5
Hexachlorocyclopentadiene	#	0.448	0.488	0.475	0.505	0.476	0.478	4.3#
2,4,6-Trichlorophenol	*	0.392	0.434	0.402	0.425	0.428	0.416	4.4*
2,4,5-Trichlorophenol		0.418	0.464	0.425	0.439	0.422	0.434	4.3
2-Chloronaphthalene		1.111	1.213	1.121	1.173	1.120	1.148	3.8
2-Nitroaniline		0.365	0.415	0.370	0.391	0.378	0.384	5.3
Dimethylphthalate		1.336	1.492	1.346	1.416	1.329	1.384	5.1
Acenaphthylene		1.655	1.838	1.674	1.730	1.669	1.713	4.4
2,6-Dinitrotoluene		0.317	0.366	0.326	0.338	0.324	0.334	5.9
3-Nitroaniline		0.344	0.396	0.353	0.359	0.350	0.360	5.8
Acenaphthene	*	1.007	1.136	1.025	1.054	1.046	1.054	4.7*
2,4-Dinitrophenol	#	0.202	0.269	0.251	0.264	0.267	0.251	11.2#
4-Nitrophenol	#	0.233	0.288	0.258	0.274	0.285	0.268	8.5#
Dibenzofuran		1.554	1.730	1.580	1.647	1.597	1.622	4.3
2,4-Dinitrotoluene		0.419	0.488	0.440	0.462	0.444	0.451	5.8

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0H120157

Instrument ID: 721

Calibration Date(s): 08/18/00

Min RRF for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF1 =D0818CC1.D	RRF2 =D0818CC2.D			RRF3 =D0818CC3.D	RRF4 =D0818CC4.D	RRF5 =D0818CC5.D		
COMPOUND		RRF1	RRF2	RRF3	RRF4	RRF5	RRF	%	RSD	
Diethylphthalate		1.357	1.568	1.414	1.472	1.391	1.440	5.7		
4-Chlorophenyl-phenylether		0.592	0.677	0.618	0.639	0.611	0.627	5.2		
Fluorene		1.221	1.400	1.269	1.302	1.198	1.278	6.2		
4-Nitroaniline		0.329	0.385	0.338	0.348	0.344	0.349	6.2		
4,6-Dinitro-2-methylphenol		0.137	0.179	0.166	0.172	0.180	0.167	10.5		
N-Nitrosodiphenylamine (1)	*	0.488	0.535	0.491	0.511	0.504	0.506	3.7*		
4-Bromophenyl-phenylether		0.197	0.225	0.210	0.214	0.215	0.212	4.7		
Hexachlorobenzene		0.248	0.288	0.268	0.273	0.287	0.273	6.0		
Pentachlorophenol	*	0.160	0.195	0.180	0.184	0.196	0.183	7.9*		
Phenanthrene		0.929	1.080	0.961	0.976	0.995	0.988	5.7		
Anthracene		0.947	1.081	0.961	0.964	0.978	0.986	5.5		
Carbazole		0.835	0.953	0.844	0.832	0.874	0.868	5.8		
Di-n-Butylphthalate		1.182	1.371	1.201	1.196	1.228	1.236	6.3		
Fluoranthene	*	0.928	1.086	0.948	0.944	0.993	0.980	6.5*		
Pyrene		1.150	1.230	1.191	1.214	1.193	1.196	2.5		
Butylbenzylphthalate		0.604	0.656	0.626	0.649	0.638	0.635	3.2		
3,3'-Dichlorobenzidine		0.411	0.457	0.446	0.448	0.446	0.442	4.0		
Benzo (a) Anthracene		1.012	1.087	1.063	1.097	1.086	1.069	3.2		
Chrysene		0.897	0.957	0.921	0.958	0.971	0.941	3.3		
bis(2-ethylhexyl) Phthalate		0.796	0.855	0.843	0.900	0.884	0.856	4.7		
Di-n-octylphthalate	*	1.774	1.978	1.855	1.922	2.042	1.914	5.4*		
Benzo (b) fluoranthene		1.223	1.301	1.329	1.591	1.718	1.432	14.7		
Benzo (k) fluoranthene		1.199	1.400	1.217	1.042	1.015	1.175	13.2		
Benzo (a) pyrene	*	1.075	1.191	1.118	1.160	1.159	1.141	3.9*		
Indeno (1,2,3-cd) pyrene		0.983	1.179	1.255	1.335	1.306	1.212	11.6		
Dibenz (a,h) anthracene		0.966	1.152	1.222	1.332	1.254	1.185	11.7		
Benzo (g,h,i) perylene		0.915	1.069	1.140	1.234	1.141	1.100	10.8		
Pyridine		1.042	0.979	0.940	0.963	0.933	0.971	4.5		
N-Nitrosodimethylamine		0.659	0.644	0.619	0.640	0.623	0.637	2.5		
Aniline		1.592	1.678	1.551	1.551	1.514	1.577	4.0		
Benzyl Alcohol		0.884	0.969	0.873	0.916	0.904	0.909	4.1		
Benzoic Acid		0.196	0.257	0.217	0.260	0.266	0.239	12.8		
1-Methylnaphthalene		0.592	0.648	0.582	0.600	0.596	0.604	4.2		
2,3,4,6-Tetrachlorophenol		0.336	0.395	0.366	0.376	0.367	0.368	5.7		
2,3,5,6-Tetrachlorophenol		0.354	0.417	0.376	0.395	0.389	0.386	6.1		

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Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No. :

SAS No. :

SDG No.: COH120157

Instrument ID: 721

Calibration Date(s): 08/18/00

Min $\overline{\text{RRF}}$ for SPCC(♯) = 0.050

Max %RSD for CCC(*) = 30.0%

[illegible]

INITIAL CALIBRATION REPORT

Instrument ID: 721.i
Lab File ID: D0818CC2.D
Analysis Type: NONE

Injection Date: 18-AUG-2000 14:04
Lab Sample ID: sstd50
Method File: \\Qpitpa02\D\chem\721.i\d081800.b

COMPOUND	%RSD
-----	-----
Benzo(b)fluoranthene	14.7
Benzo(k)fluoranthene	13.2
7,12-dimethylbenz[a]anthracen	7.9
Benzo(a)pyrene	3.9
Indeno(1,2,3-cd)pyrene	11.6
Dibenz(a,h)anthracene	11.7
Benzo(g,h,i)perylene	10.8

The average of all %RSD's in the initial calibration is 5.4

INITIAL CALIBRATION REPORT

Instrument ID: 721.i
Lab File ID: D0818CC2.D
Analysis Type: NONE

Injection Date: 18-AUG-2000 14:04
Lab Sample ID: sstd50
Method File: \\Qpitpa02\D\chem\721.i\d081800.b\8270c.

COMPOUND	%RSD
Pyridine	4.5
N-Nitrosodimethylamine	2.5
Methyl methanesulfonate	2.8
2-Fluorophenol	3.7
Phenol-d5	5.5
Phenol	5.9
Aniline	4.0
bis(2-Chloroethyl) ether	4.2
2-Chlorophenol-d4	3.0
2-Chlorophenol	2.8
1,3-Dichlorobenzene	2.8
1,4-Dichlorobenzene	4.0
Benzyl Alcohol	4.1
1,2-Dichlorobenzene-d4	3.5
1,2-Dichlorobenzene	4.0
2-Methylphenol	4.1
2,2'-oxybis(1-Chloropropane)	4.7
4-Methylphenol	4.9
N-Nitroso-di-n-propylamine	4.8
Hexachloroethane	2.3
Nitrobenzene-d5	2.4
Nitrobenzene	3.9
Isophorone	4.0
2-Nitrophenol	3.2
2,4-Dimethylphenol	4.3
bis(2-Chloroethoxy)methane	3.6
Benzoic Acid	12.8
2,4-Dichlorophenol	3.8
1,2,4-Trichlorobenzene	3.1
Naphthalene	2.9
4-Chloroaniline	3.6
Hexachlorobutadiene	3.1
4-Chloro-3-Methylphenol	5.1
2-Methylnaphthalene	4.5
1-Methylnaphthalene	4.2
Hexachlorocyclopentadiene	4.3
2,4,6-Trichlorophenol	4.4
2,4,5-Trichlorophenol	4.3
2-Fluorobiphenyl	3.6

INITIAL CALIBRATION REPORT

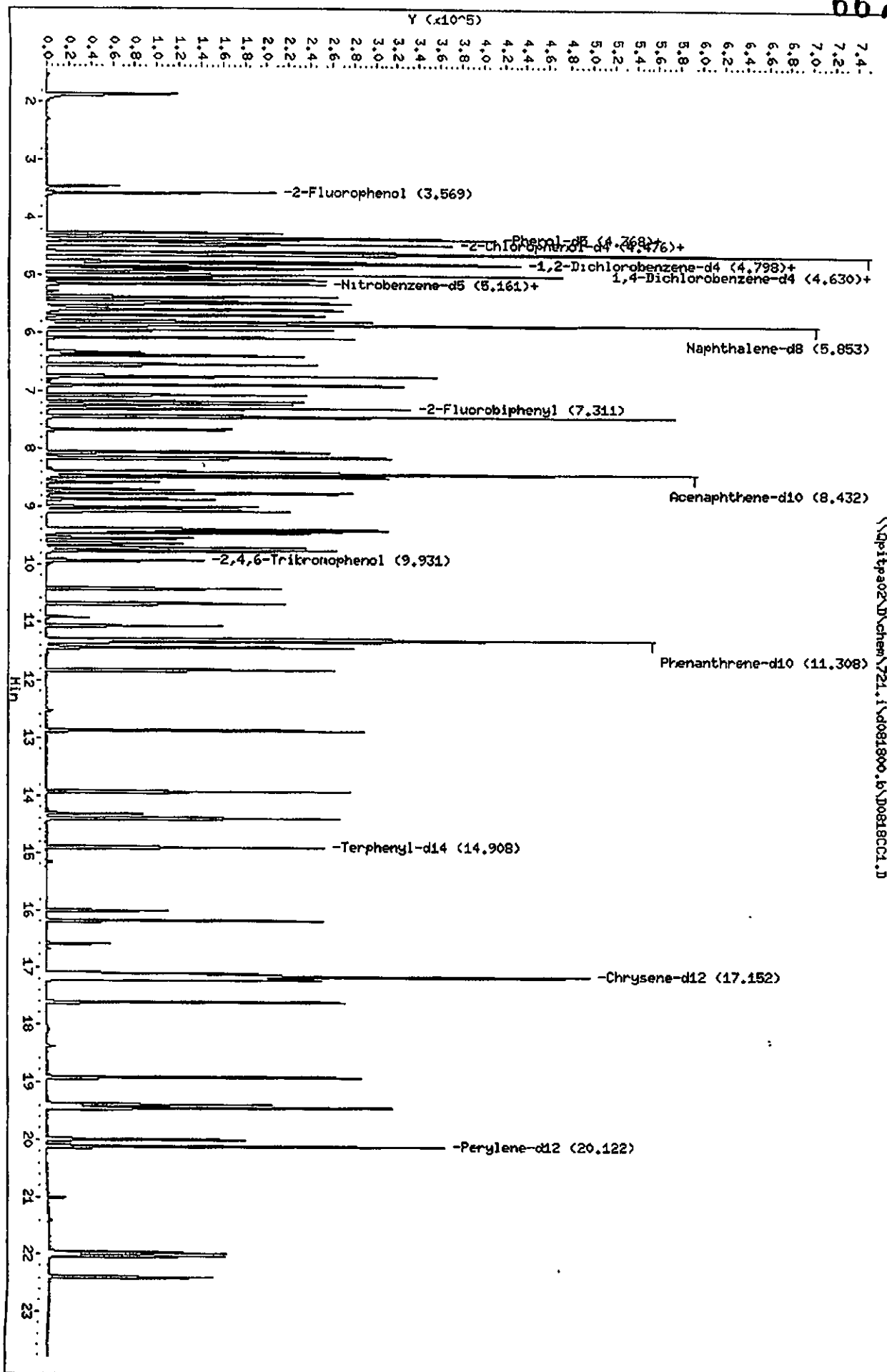
Instrument ID: 721.i
Lab File ID: D0818CC2.D
Analysis Type: NONE

Injection Date: 18-AUG-2000 14:04
Lab Sample ID: sstd50
Method File: \\Qpitpa02\D\chem\721.i\d081800.b

COMPOUND	%RSD
2-Chloronaphthalene	3.8
2-Nitroaniline	5.3
Dimethylphthalate	5.1
Acenaphthylene	4.4
2,6-Dinitrotoluene	5.9
3-Nitroaniline	5.8
Acenaphthene	4.7
2,4-Dinitrophenol	11.2
4-Nitrophenol	8.5
Dibenzofuran	4.3
2,4-Dinitrotoluene	5.8
2,3,5,6-Tetrachlorophenol	6.1
2-Naphthylamine	18.1
2,3,4,6-Tetrachlorophenol	5.7
Diethylphthalate	5.7
Fluorene	6.2
4-Chlorophenyl-phenylether	5.2
4-Nitroaniline	6.2
4,6-Dinitro-2-methylphenol	10.5
N-Nitrosodiphenylamine (1)	3.7
1,2-Diphenylhydrazine	5.7
2,4,6-Tribromophenol	6.9
4-Bromophenyl-phenylether	4.7
Hexachlorobenzene	6.0
Pentachlorophenol	7.9
Phenanthrene	5.7
Anthracene	5.5
Carbazole	5.8
Di-n-Butylphthalate	6.3
Fluoranthene	6.5
Benzidine	7.4
Pyrene	2.5
Terphenyl-d14	3.0
Butylbenzylphthalate	3.2
Benzo(a)Anthracene	3.2
3,3'-Dichlorobenzidine	4.0
Chrysene	3.3
bis(2-ethylhexyl)Phthalate	4.7
Di-n-octylphthalate	5.4

Data File: \\qptp0202\chem\721.i\ad081800.b\00818CC1.D
 Date: 18-AUG-2000 13:34
 Client ID: SST020
 Sample Info: sst020 (10UG/ML) 194-188-3 8270/c1p/625
 Column Phase: Hp5-MS

Instrument: 721.1
 Operator: 001862, JLF
 Column diameter: 0.25



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STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081800.b\D0818CC1.D
Lab Smp Id: sstd20 Client Smp ID: SST020
Inj Date : 18-AUG-2000 13:34
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd020 (10UG/ML) 194-188-3 8270/clp/625
Misc Info : sstd20,d081800.b,8270c.m,3-root.sub,1,1
Comment :
Method : \\Qpitpa02\D\chem\721.i\d081800.b\8270c.m
Meth Date : 19-Aug-2000 11:40 ferguson Quant Type: ISTD
Cal Date : 18-AUG-2000 13:34 Cal File: D0818CC1.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-root.sub
Target Version: 4.04
Processing Host: PITPC013

AL2
8-14-00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
*****	----	==	=====	=====	=====	=====	=====
* 1 1,4-Dichlorobenzene-d4	152	4.630	4.630	(1.000)	114739	40.0000	
* 2 Naphthalene-d8	136	5.852	5.852	(1.000)	397408	40.0000	
* 3 Acenaphthene-d10	164	8.432	8.432	(1.000)	216151	40.0000	
* 4 Phenanthrene-d10	188	11.307	11.307	(1.000)	396650	40.0000	
* 5 Chrysene-d12	240	17.152	17.152	(1.000)	316908	40.0000	
* 6 Perylene-d12	264	20.121	20.121	(1.000)	244028	40.0000	
10 N-Nitrosodimethylamine	74	1.869	1.869	(0.404)	37789	20.0000	20.686
9 Pyridine	79	1.855	1.855	(0.401)	59779	20.0000	21.447 (M)
16 Methyl methanesulfonate	80	3.454	3.454	(0.746)	27321	20.0000	19.730
21 Aniline	93	4.395	4.395	(0.949)	91366	20.0000	20.193 (Q)
22 Phenol	94	4.374	4.374	(0.945)	96213	20.0000	20.202 (Q)
23 bis(2-Chloroethyl)ether	93	4.442	4.442	(0.959)	71935	20.0000	20.207
24 2-Chlorophenol	128	4.482	4.482	(0.968)	77974	20.0000	19.774
26 1,3-Dichlorobenzene	146	4.596	4.596	(0.993)	82393	20.0000	19.678
27 1,4-Dichlorobenzene	146	4.643	4.643	(1.003)	85077	20.0000	19.939
28 1,2-Dichlorobenzene	146	4.804	4.804	(1.038)	77347	20.0000	19.656
29 Benzyl Alcohol	108	4.764	4.764	(1.029)	50728	20.0000	19.449
30 2-Methylphenol	108	4.865	4.865	(1.051)	63787	20.0000	19.414
31 2,2'-oxybis(1-Chloropropane)	45	4.898	4.898	(1.058)	92689	20.0000	20.334
32 N-Nitroso-di-n-propylamine	70	5.026	5.026	(1.086)	47431	20.0000	20.028
192 4-Methylphenol	108	4.992	4.992	(1.078)	68378	20.0000	19.647
34 Hexachloroethane	117	5.080	5.080	(1.097)	37089	20.0000	19.796
35 Nitrobenzene	77	5.160	5.160	(0.882)	74023	20.0000	19.263
41 Isophorone	82	5.375	5.375	(0.919)	125698	20.0000	19.395
42 2-Nitrophenol	139	5.469	5.469	(0.935)	41741	20.0000	19.294
43 2,4-Dimethylphenol	107	5.490	5.490	(0.938)	70035	20.0000	19.005

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
44 bis (2-Chloroethoxy)methane	93	5.604	5.604	(0.958)	77977	20.0000	19.515
48 2,4-Dichlorophenol	162	5.705	5.705	(0.975)	59081	20.0000	19.052
49 Benzoic Acid	122	5.597	5.597	(0.956)	39063	20.0000	16.428 (MH)
50 1,2,4-Trichlorobenzene	180	5.805	5.805	(0.992)	66236	20.0000	19.113
51 Naphthalene	128	5.879	5.879	(1.005)	196704	20.0000	19.266
52 4-Chloroaniline	127	5.953	5.953	(1.017)	82364	20.0000	19.576
56 Hexachlorobutadiene	225	6.087	6.087	(1.040)	40582	20.0000	18.973 (Q)
59 4-Chloro-3-Methylphenol	107	6.544	6.544	(1.118)	58614	20.0000	19.237
62 2-Methylnaphthalene	142	6.739	6.739	(1.152)	123351	20.0000	18.981
63 1-Methylnaphthalene	142	6.894	6.894	(1.178)	117695	20.0000	19.624
64 Hexachlorocyclopentadiene	237	7.068	7.068	(0.838)	48419	20.0000	18.734
66 2,4,6-Trichlorophenol	196	7.182	7.182	(0.852)	42341	20.0000	18.818
67 2,4,5-Trichlorophenol	196	7.236	7.236	(0.858)	45126	20.0000	19.264
70 2-Chloronaphthalene	162	7.458	7.458	(0.884)	120075	20.0000	19.358
73 2-Nitroaniline	65	7.673	7.673	(0.910)	39463	20.0000	19.027
76 Dimethylphthalate	163	8.062	8.062	(0.956)	144401	20.0000	19.308
78 2,6-Dinitrotoluene	165	8.170	8.170	(0.969)	34230	20.0000	18.950
79 Acenaphthylene	152	8.150	8.150	(0.967)	178865	20.0000	19.322
81 3-Nitroaniline	138	8.398	8.398	(0.996)	37189	20.0000	19.089
82 Acenaphthene	153	8.486	8.486	(1.006)	108801	20.0000	19.112
83 2,4-Dinitrophenol	184	8.573	8.573	(1.017)	21830	20.0000	16.119
85 4-Nitrophenol	109	8.707	8.707	(1.033)	25172	20.0000	17.418
86 Dibenzofuran	168	8.768	8.768	(1.040)	167934	20.0000	19.165
87 2,4-Dinitrotoluene	165	8.875	8.875	(1.053)	45277	20.0000	18.596
91 2,3,5,6-Tetrachlorophenol	232	9.003	9.003	(1.068)	38219	20.0000	18.314
88 2,3,4,6-Tetrachlorophenol	232	9.090	9.090	(1.078)	36351	20.0000	18.273
92 2-Naphthylamine	143	9.070	9.070	(1.076)	87834	20.0000	22.317
93 Diethylphthalate	149	9.399	9.399	(1.115)	146664	20.0000	18.842
94 Fluorene	166	9.426	9.426	(1.118)	131938	20.0000	19.106
95 4-Chlorophenyl-phenylether	204	9.460	9.460	(1.122)	63963	20.0000	18.861
96 4-Nitroaniline	138	9.554	9.554	(1.133)	35585	20.0000	18.873
98 4,6-Dinitro-2-methylphenol	198	9.641	9.641	(0.853)	27238	20.0000	16.461
99 N-Nitrosodiphenylamine (1)	169	9.715	9.715	(0.859)	96852	20.0000	19.305
100 1,2-Diphenylhydrazine	77	9.769	9.769	(0.864)	145642	20.0000	18.760
106 4-Bromophenyl-phenylether	248	10.434	10.434	(0.923)	39135	20.0000	18.594
107 Hexachlorobenzene	284	10.689	10.689	(0.945)	49156	20.0000	18.170
111 Pentachlorophenol	266	11.072	11.072	(0.979)	31712	20.0000	17.487 (Q)
115 Phenanthrene	178	11.354	11.354	(1.004)	184224	20.0000	18.801
116 Anthracene	178	11.448	11.448	(1.012)	187760	20.0000	19.203
119 Carbazole	167	11.831	11.831	(1.046)	165669	20.0000	19.246 (Q)
120 Di-n-Butylphthalate	149	12.872	12.872	(1.138)	234438	20.0000	19.130
123 Fluoranthene	202	13.934	13.934	(1.232)	184023	20.0000	18.939
124 Benzidine	184	14.324	14.324	(0.835)	60496	20.0000	20.195
125 Pyrene	202	14.404	14.404	(0.840)	182272	20.0000	19.241
131 Butylbenzylphthalate	149	16.184	16.184	(0.944)	95758	20.0000	19.043
135 3,3'-Dichlorobenzidine	252	17.179	17.179	(1.002)	65111	20.0000	18.606
136 Benzo (a) Anthracene	228	17.111	17.111	(0.998)	160414	20.0000	18.940

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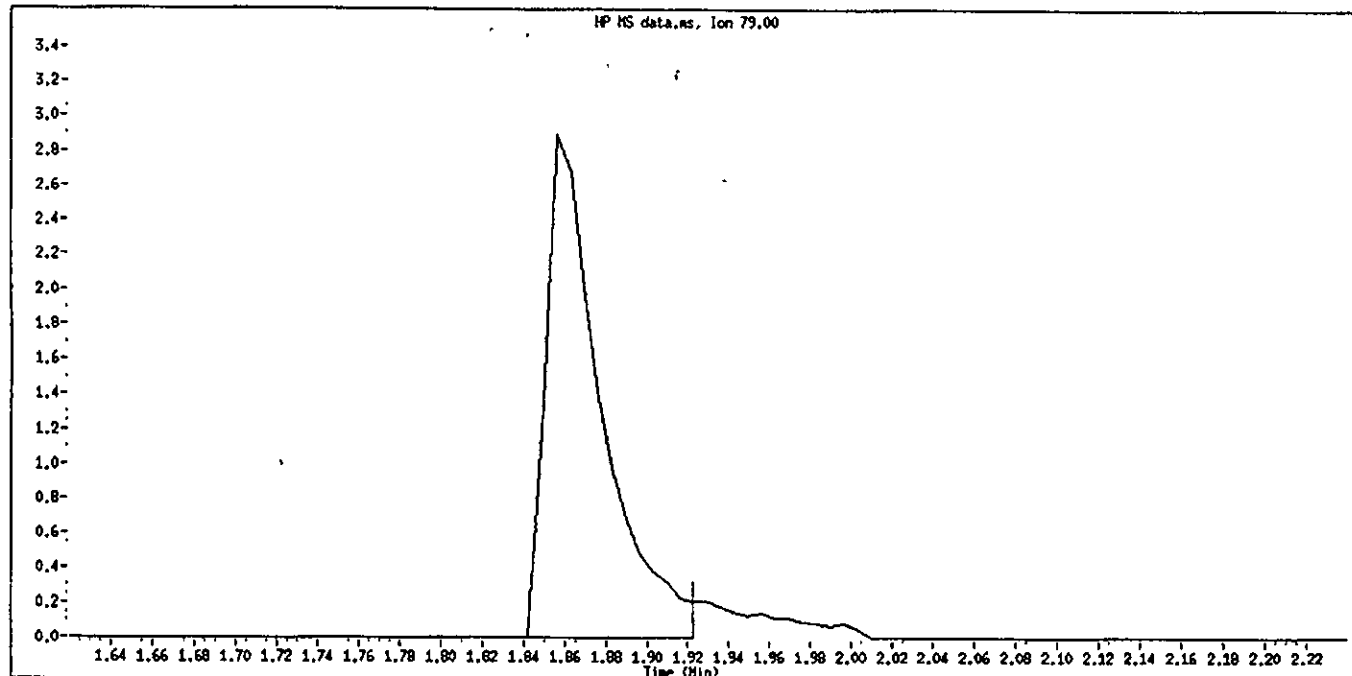
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
137 Chrysene	228	17.205	17.205	(1.003)	142210	20.0000	19.074
139 bis(2-ethylhexyl)Phthalate	149	17.615	17.615	(1.027)	126201	20.0000	18.618
140 Di-n-octylphthalate	149	18.925	18.925	(0.941)	216520	20.0000	18.538
141 Benzo(b)fluoranthene	252	19.389	19.389	(0.964)	149276	20.0000	17.080 (H)
142 Benzo(k)fluoranthene	252	19.443	19.443	(0.966)	146266	20.0000	20.413
143 7,12-dimethylbenz[a]anthracen	256	19.456	19.456	(0.967)	65776	20.0000	17.503
146 Benzo(a)pyrene	252	20.000	20.000	(0.994)	131198	20.0000	18.854
149 Indeno(1,2,3-cd)pyrene	276	21.982	21.982	(1.092)	119958	20.0000	16.228 (H)
150 Dibenz(a,h)anthracene	278	22.036	22.036	(1.095)	117860	20.0000	16.302
151 Benzo(g,h,i)perylene	276	22.392	22.392	(1.113)	111623	20.0000	16.635
\$ 154 Nitrobenzene-d5	82	5.140	5.140	(0.878)	76562	20.0000	19.547
\$ 155 2-Fluorobiphenyl	172	7.310	7.310	(0.867)	137689	20.0000	19.550
\$ 156 Terphenyl-d14	244	14.908	14.908	(0.869)	146850	20.0000	19.274
\$ 157 Phenol-d5	99	4.361	4.361	(0.942)	93676	20.0000	20.284
\$ 158 2-Fluorophenol	112	3.568	3.568	(0.771)	76626	20.0000	19.731
\$ 159 2,4,6-Tribromophenol	330	9.930	9.930	(0.878)	28016	20.0000	17.752
\$ 186 2-Chlorophenol-d4	132	4.468	4.468	(0.965)	70761	20.0000	19.530
\$ 187 1,2-Dichlorobenzene-d4	152	4.791	4.791	(1.035)	51585	20.0000	19.978

QC Flag Legend

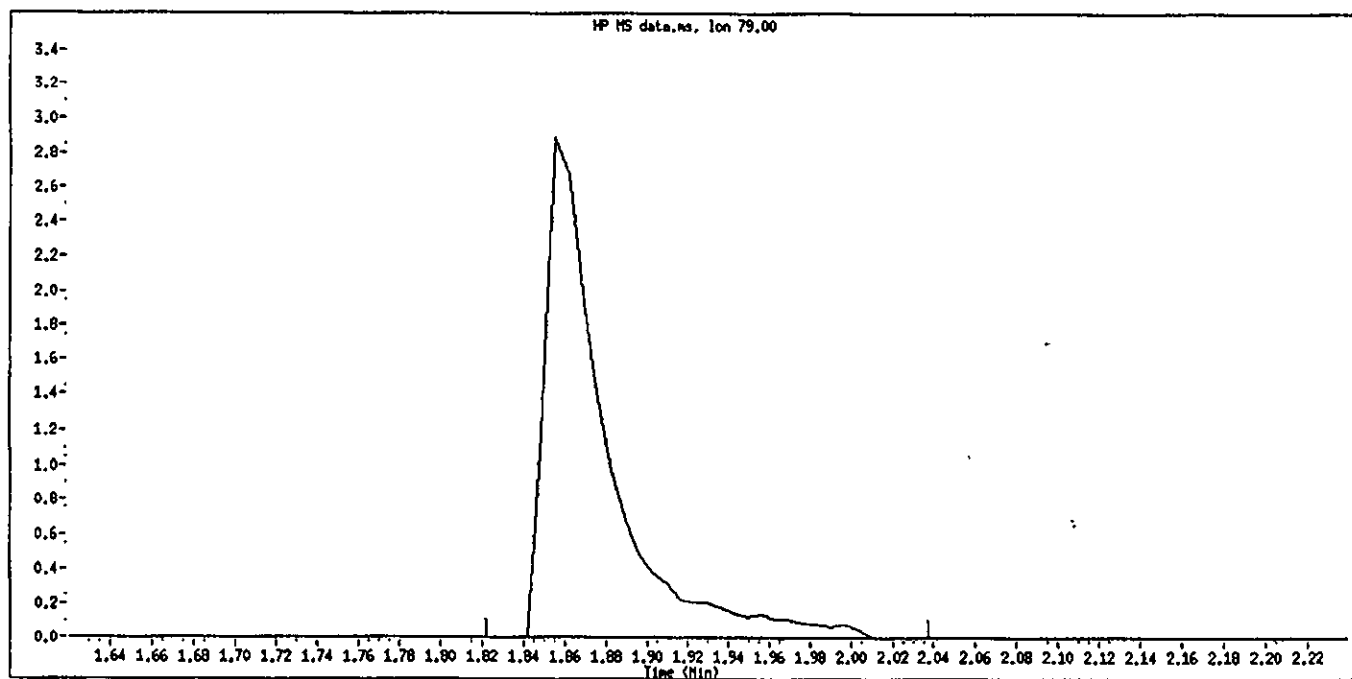
Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Data File Name D0818CC1.D
Inj. Date and Time 18-AUG-2000 13:34
Instrument ID: 721.i
Client ID. SST020
Compound Name. Pyridine
CAS #: 110-86-1
Report Date 08/19/2000

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Original Integration

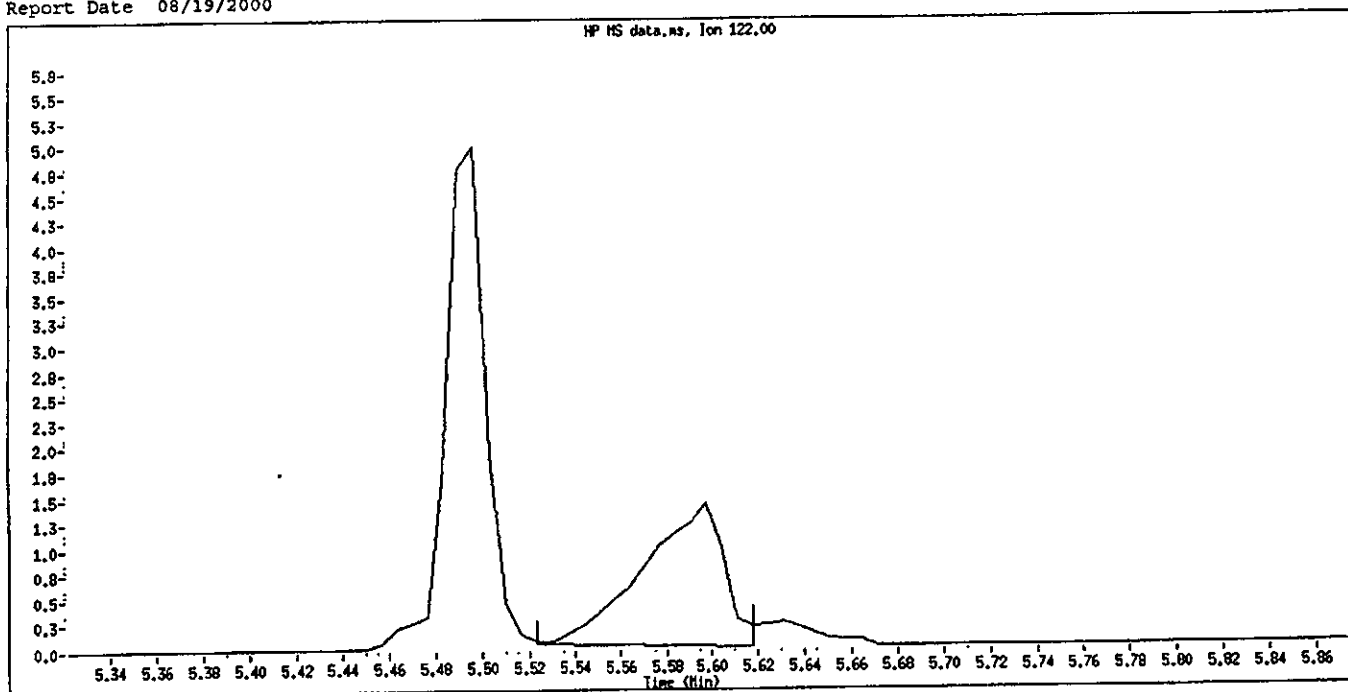


Manual Integration

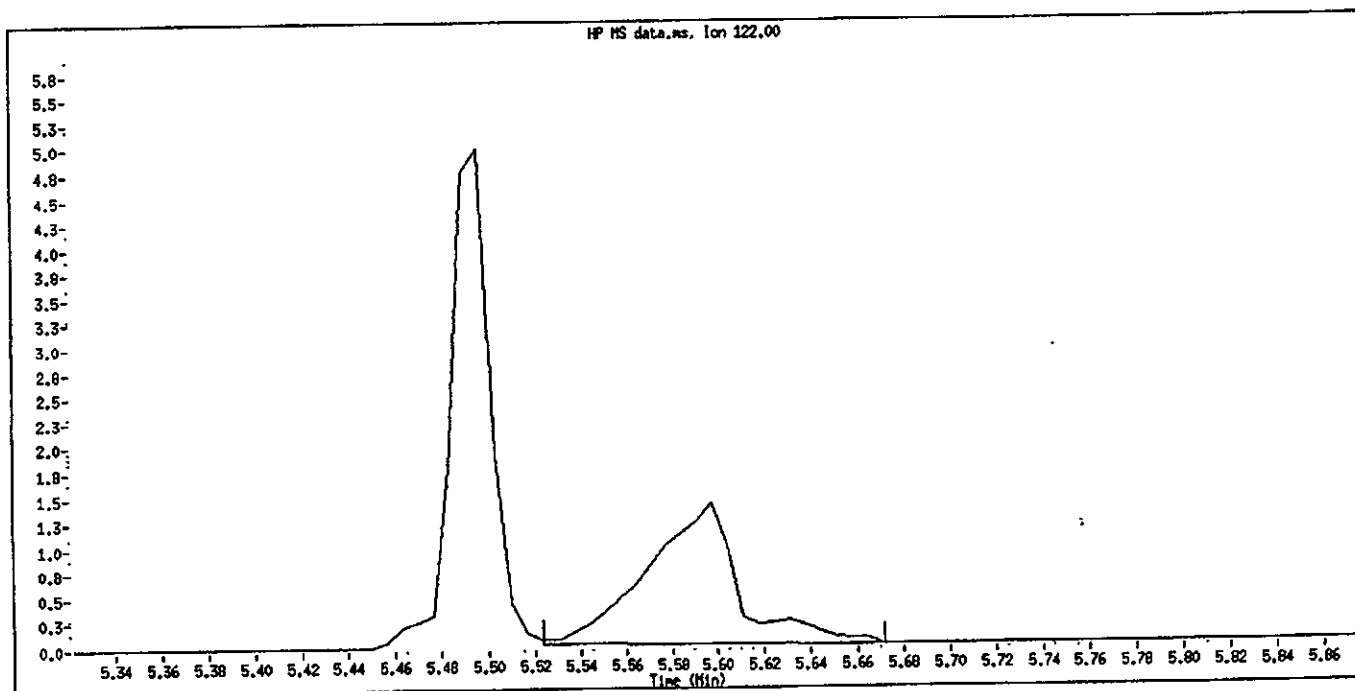
Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File Name D0818CC1.D
Inj. Date and Time: 18-AUG-2000 13:34
Instrument ID: 721.i
Client ID: SST020
Compound Name Benzoic Acid
CAS #: 65-85-0
Report Date 08/19/2000

667 214



Original Integration



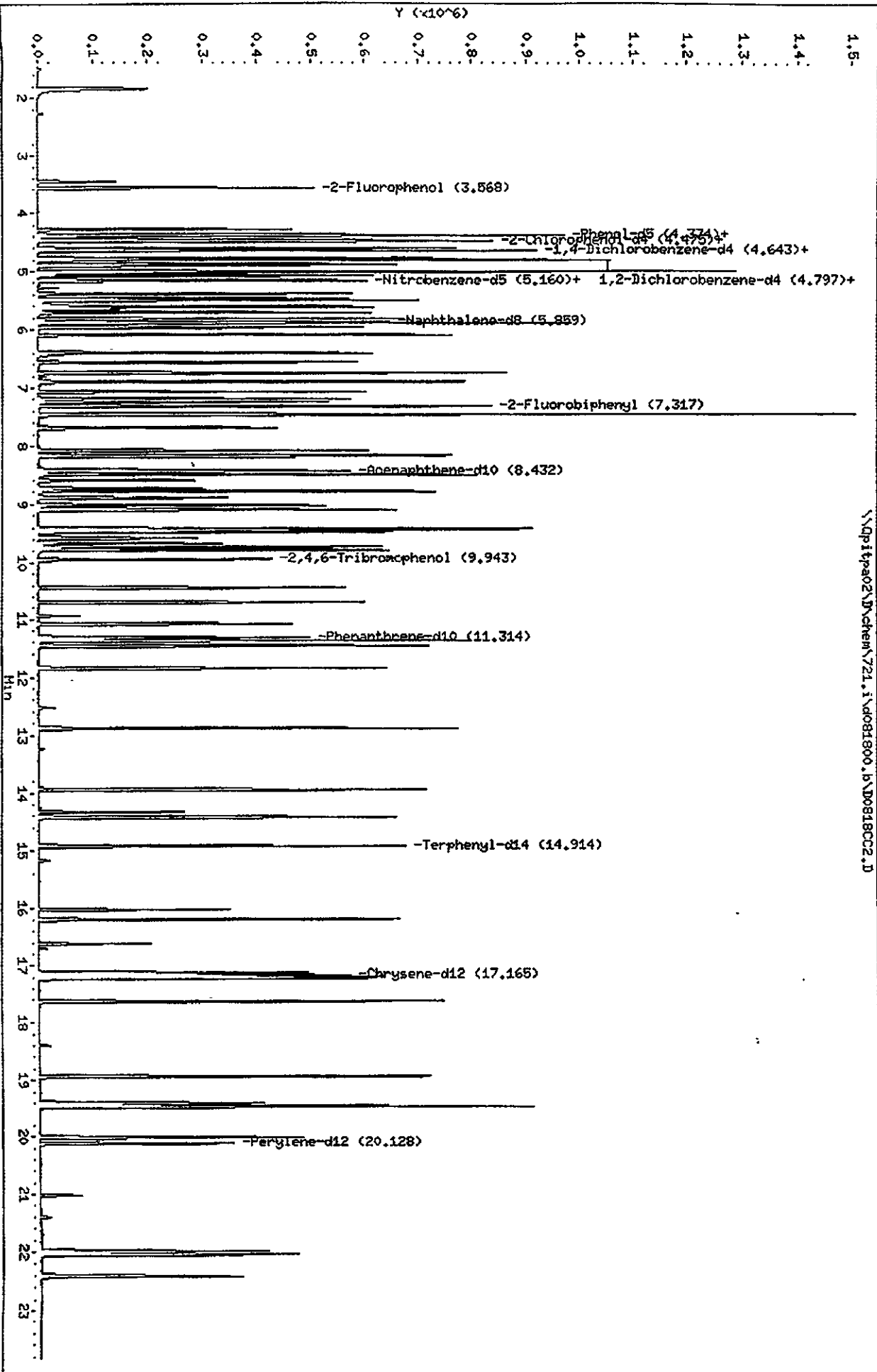
Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File: \\dp1tpa02\chem\721.1\4081800.b\00818002.D
 Date: 18-AUG-2000 14:04
 Client ID: SST050
 Sample Info: sst050 (25UG/ML) 194-183-7 8270/c1p/625
 Column phase: Hp5-HS

Instrument: 721.1
 Operator: 001562, MLF
 Column diameter: 0.25

\\dp1tpa02\chem\721.1\4081800.b\00818002.D



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STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081800.b\D0818CC2.D
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Inj Date : 18-AUG-2000 14:04
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd050 (25UG/ML) 194-183-7 8270/clp/625
Misc Info : sstd50,d081800.b,8270c.m,3-root.sub,1,2
Comment :
Method : \\Qpitpa02\D\chem\721.i\d081800.b\8270c.m
Meth Date : 19-Aug-2000 11:42 ferguson Quant Type: ISTD
Cal Date : 18-AUG-2000 13:34 Cal File: D0818CC1.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-root.sub
Target Version: 4.04
Processing Host: PITPC013

DL 2
8-19-00

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	4.629	4.629	(1.000)	103604	40.0000	
* 2 Naphthalene-d8	136	5.858	5.858	(1.000)	361173	40.0000	
* 3 Acenaphthene-d10	164	8.431	8.431	(1.000)	202171	40.0000	
* 4 Phenanthrene-d10	188	11.313	11.313	(1.000)	374557	40.0000	
* 5 Chrysene-d12	240	17.164	17.164	(1.000)	325262	40.0000	
* 6 Perylene-d12	264	20.127	20.127	(1.000)	244162	40.0000	
10 N-Nitrosodimethylamine	74	1.848	1.848	(0.399)	83352	50.0000	50 530
9 Pyridine	79	1.828	1.828	(0.395)	126832	50.0000	50 395(M)
16 Methyl methanesulfonate	80	3.447	3.447	(0.745)	65438	50.0000	52.335
21 Aniline	93	4.394	4.394	(0.949)	217348	50.0000	53.198
22 Phenol	94	4.380	4.380	(0.946)	236088	50.0000	54.899
23 bis(2-Chloroethyl)ether	93	4.448	4.448	(0.961)	171751	50.0000	53.431
24 2-Chlorophenol	128	4.481	4.481	(0.968)	185677	50.0000	52.147
26 1,3-Dichlorobenzene	146	4.595	4.595	(0.993)	197648	50.0000	52.278
27 1,4-Dichlorobenzene	146	4.642	4.642	(1.003)	205753	50.0000	53.404
28 1,2-Dichlorobenzene	146	4.804	4.804	(1.038)	189926	50.0000	53.453
29 Benzyl Alcohol	108	4.763	4.763	(1.029)	125488	50.0000	53.283
30 2-Methylphenol	108	4.871	4.871	(1.052)	158531	50.0000	53.436
31 2,2'-oxybis(1-Chloropropane)	45	4.898	4.898	(1.058)	220491	50.0000	53.569
32 N-Nitroso-di-n-propylamine	70	5.032	5.032	(1.087)	115057	50.0000	53.805
192 4-Methylphenol	108	4.998	4.998	(1.080)	170381	50.0000	54.218
34 Hexachloroethane	117	5.079	5.079	(1.097)	87839	50.0000	51.922
35 Nitrobenzene	77	5.166	5.166	(0.882)	186011	50.0000	53.262
41 Isophorone	82	5.388	5.388	(0.920)	313068	50.0000	53.151
42 2-Nitrophenol	139	5.469	5.469	(0.933)	103401	50.0000	52.592
43 2,4-Dimethylphenol	107	5.502	5.502	(0.939)	177962	50.0000	53.137

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
44 bis(2-Chloroethoxy)methane	93	5.610	5.610	(0.958)	192730	50.0000	53.074
48 2,4-Dichlorophenol	162	5.711	5.711	(0.975)	148542	50.0000	52.706
49 Benzoic Acid	122	5.650	5.650	(0.964)	116146	50.0000	53.746
50 1,2,4-Trichlorobenzene	180	5.811	5.811	(0.992)	162707	50.0000	51.662
51 Naphthalene	128	5.878	5.878	(1.003)	483269	50.0000	52.082
52 4-Chloroaniline	127	5.959	5.959	(1.017)	203143	50.0000	53.126
56 Hexachlorobutadiene	225	6.087	6.087	(1.039)	99871	50.0000	51.376
59 4-Chloro-3-Methylphenol	107	6.557	6.557	(1.119)	150673	50.0000	54.413
62 2-Methylnaphthalene	142	6.745	6.745	(1.151)	315459	50.0000	53.413
63 1-Methylnaphthalene	142	6.900	6.900	(1.178)	292448	50.0000	53.655
64 Hexachlorocyclopentadiene	237	7.068	7.068	(0.838)	123328	50.0000	51.018
66 2,4,6-Trichlorophenol	196	7.188	7.188	(0.853)	109812	50.0000	52.181
67 2,4,5-Trichlorophenol	196	7.249	7.249	(0.860)	117158	50.0000	53.472
70 2-Chloronaphthalene	162	7.464	7.464	(0.885)	306623	50.0000	52.852
73 2-Nitroaniline	65	7.686	7.686	(0.912)	104932	50.0000	54.092
76 Dimethylphthalate	163	8.075	8.075	(0.958)	377115	50.0000	53.913
78 2,6-Dinitrotoluene	165	8.183	8.183	(0.971)	92630	50.0000	54.828
79 Acenaphthylene	152	8.156	8.156	(0.967)	464433	50.0000	53.641
81 3-Nitroaniline	138	8.411	8.411	(0.998)	100181	50.0000	54.979
82 Acenaphthene	153	8.492	8.492	(1.007)	287124	50.0000	53.925
83 2,4-Dinitrophenol	184	8.592	8.592	(1.019)	67903	50.0000	53.606
85 4-Nitrophenol	109	8.734	8.734	(1.036)	72786	50.0000	53.848
86 Dibenzofuran	168	8.781	8.781	(1.041)	437098	50.0000	53.333
87 2,4-Dinitrotoluene	165	8.895	8.895	(1.055)	123364	50.0000	54.171
91 2,3,5,6-Tetrachlorophenol	232	9.016	9.016	(1.069)	105340	50.0000	53.966
88 2,3,4,6-Tetrachlorophenol	232	9.103	9.103	(1.080)	99785	50.0000	53.629
92 2-Naphthylamine	143	9.083	9.083	(1.077)	231323	50.0000	62.839
93 Diethylphthalate	149	9.412	9.412	(1.116)	396252	50.0000	54.426
94 Fluorene	166	9.432	9.432	(1.119)	353818	50.0000	54.780
95 4-Chlorophenyl-phenylether	204	9.473	9.473	(1.123)	171209	50.0000	53.977
96 4-Nitroaniline	138	9.580	9.580	(1.136)	97331	50.0000	55.189
98 4,6-Dinitro-2-methylphenol	198	9.667	9.667	(0.855)	83982	50.0000	53.747
99 N-Nitrosodiphenylamine (1)	169	9.728	9.728	(0.860)	250423	50.0000	52.859
100 1,2-Diphenylhydrazine	77	9.782	9.782	(0.865)	380682	50.0000	51.926
106 4-Bromophenyl-phenylether	248	10.440	10.440	(0.923)	105234	50.0000	52.948
107 Hexachlorobenzene	284	10.695	10.695	(0.945)	134954	50.0000	52.828
111 Pentachlorophenol	266	11.078	11.078	(0.979)	91121	50.0000	53.210
115 Phenanthrene	178	11.367	11.367	(1.005)	505576	50.0000	54.640
116 Anthracene	178	11.461	11.461	(1.013)	506237	50.0000	54.830
119 Carbazole	167	11.844	11.844	(1.047)	446417	50.0000	54.922
120 Di-n-Butylphthalate	149	12.885	12.885	(1.139)	641863	50.0000	55.466
123 Fluoranthene	202	13.947	13.947	(1.233)	508376	50.0000	55.406
124 Benzidine	184	14.330	14.330	(0.835)	170486	50.0000	55.452
125 Pyrene	202	14.417	14.417	(0.840)	499985	50.0000	51.423
131 Butylbenzylphthalate	149	16.197	16.197	(0.944)	266695	50.0000	51.674
135 3,3'-Dichlorobenzidine	252	17.191	17.191	(1.002)	186008	50.0000	51.788
136 Benzo(a)Anthracene	228	17.124	17.124	(0.998)	441816	50.0000	50.824

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
137 Chrysene	228	17.225	17.225	(1.004)	389180	50.0000	50.859
139 bis(2-ethylhexyl)Phthalate	149	17.621	17.621	(1.027)	347509	50.0000	49.950
140 Di-n-octylphthalate	149	18.931	18.931	(0.941)	603822	50.0000	51.670
141 Benzo(b)fluoranthene	252	19.408	19.408	(0.964)	397126	50.0000	45.414 (H)
142 Benzo(k)fluoranthene	252	19.462	19.462	(0.967)	427233	50.0000	59.592
143 7,12-dimethylbenz[a]anthracen	256	19.475	19.475	(0.968)	194657	50.0000	51.769
146 Benzo(a)pyrene	252	20.020	20.020	(0.995)	363567	50.0000	52.220
149 Indeno(1,2,3-cd)pyrene	276	22.001	22.001	(1.093)	359737	50.0000	48.638 (H)
150 Dibenz(a,h)anthracene	278	22.055	22.055	(1.096)	351464	50.0000	48.588
151 Benzo(g,h,i)perylene	276	22.418	22.418	(1.114)	326367	50.0000	48.612
\$ 154 Nitrobenzene-d5	82	5.146	5.146	(0.878)	184821	50.0000	51.920
\$ 155 2-Fluorobiphenyl	172	7.316	7.316	(0.868)	346791	50.0000	52.644
\$ 156 Terphenyl-d14	244	14.914	14.914	(0.869)	390312	50.0000	49.914
\$ 157 Phenol-d5	99	4.367	4.367	(0.943)	227234	50.0000	54.492
\$ 158 2-Fluorophenol	112	3.568	3.568	(0.771)	185942	50.0000	53.026
\$ 159 2,4,6-Tribromophenol	330	9.943	9.943	(0.879)	78913	50.0000	52.953
\$ 186 2-Chlorophenol-d4	132	4.468	4.468	(0.965)	171616	50.0000	52.456
\$ 187 1,2-Dichlorobenzene-d4	152	4.790	4.790	(1.035)	123511	50.0000	52.974

QC Flag Legend

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

Data File Name: D0818CC2.D

Inj. Date and Time: 18-AUG-2000 14:04

Instrument ID: 721.1

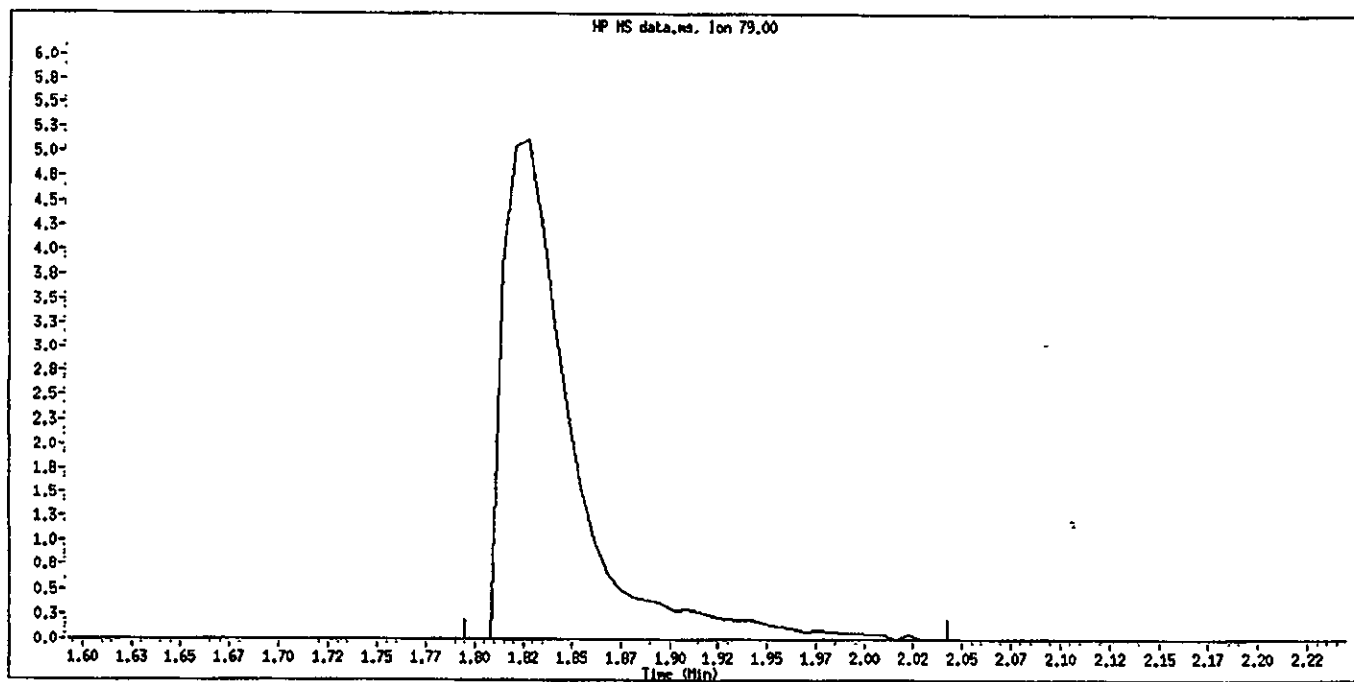
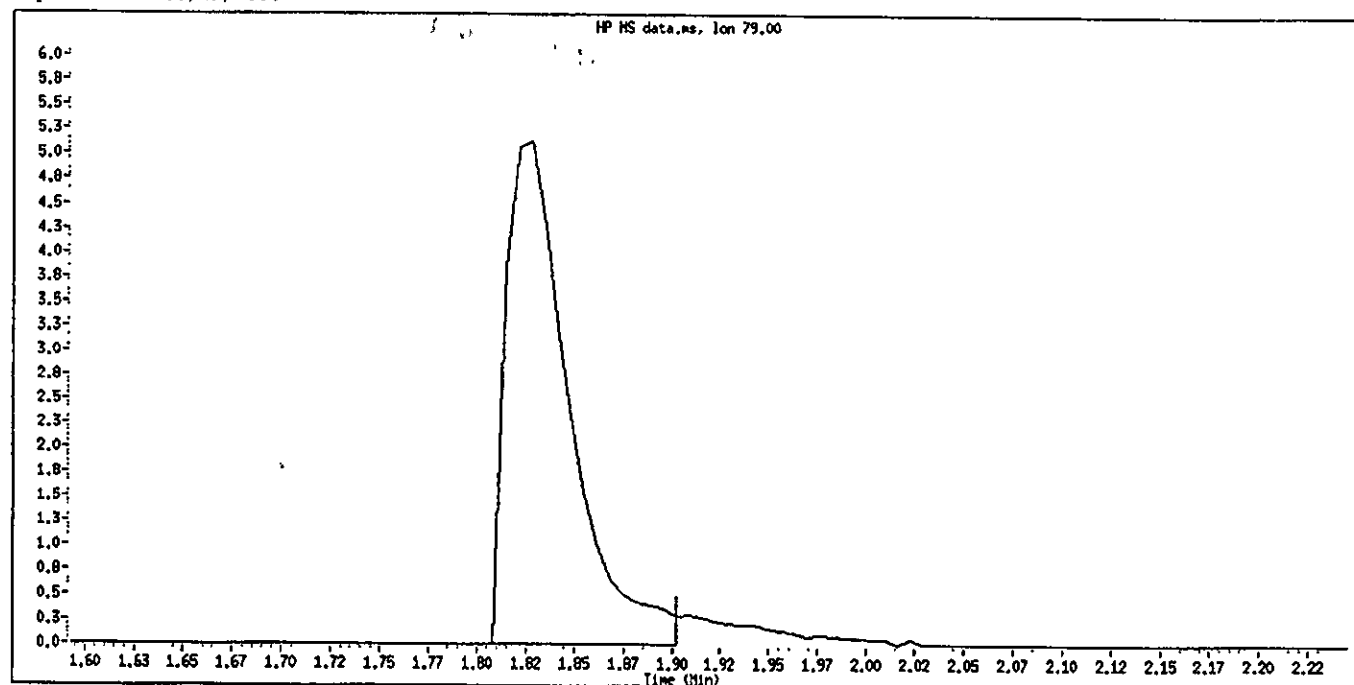
Client ID: SST050

Compound Name: Pyridine

CAS #: 110-86-1

Report Date: 08/19/2000

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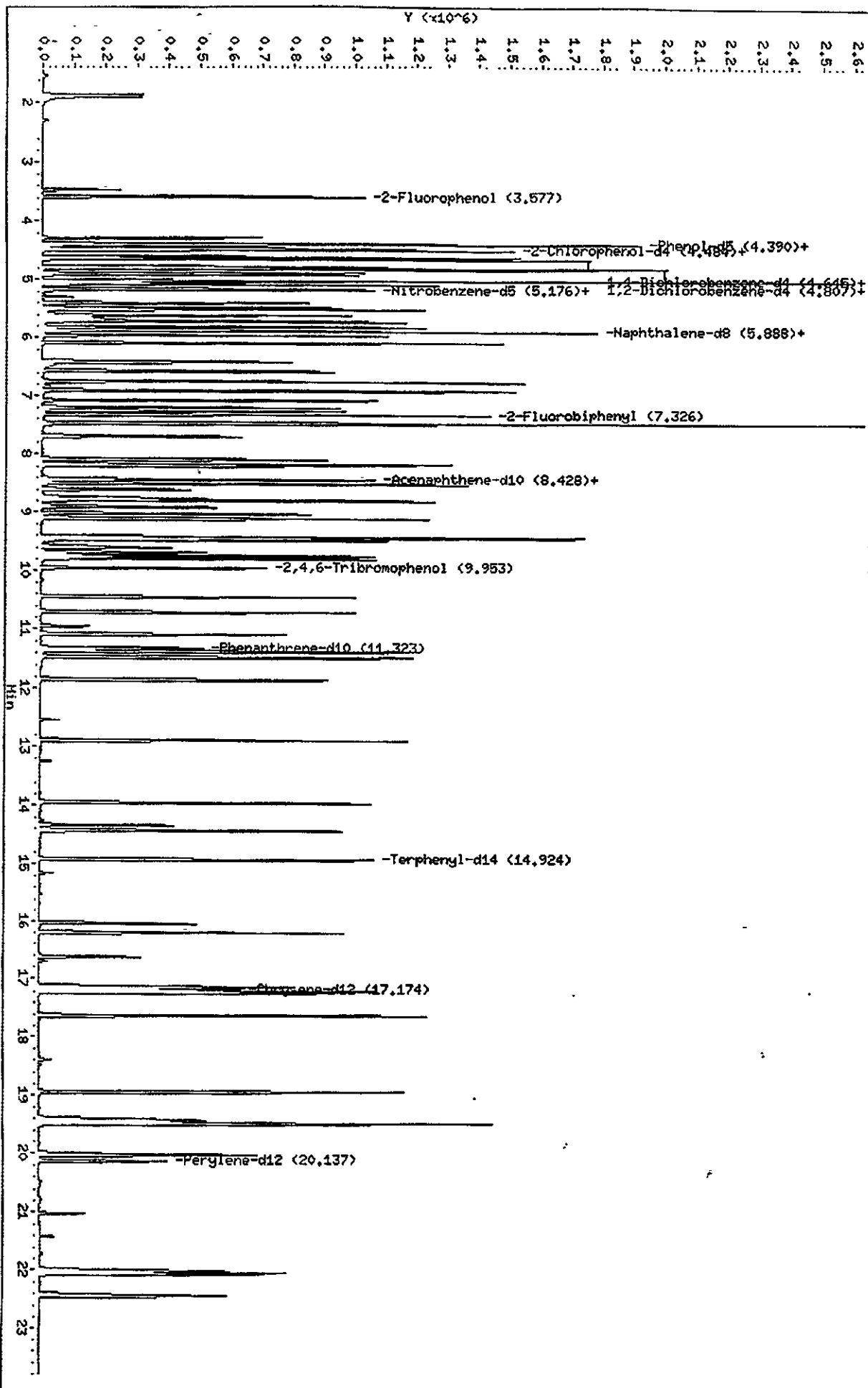


Manually Integrated By: FergusonD

Manual Integration Reason: Unknown

Data File: \\Dp1tpa02\N\chem\721.1\081800.b\0818003.D
Date: 18-AUG-2000 14:34
Client ID: SST080
Sample Info: sstd080 (40UG/ML) 194-188-5 8270/cjp/625
Column phase: Hp5-MS

Instrument: 721.1
Operator: 001562, MLF
Column diameter: 0.25



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STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081800.b\D0818CC3.D
Lab Smp Id: sstd80 Client Smp ID: SSTD080
Inj Date : 18-AUG-2000 14:34
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd080 (40UG/ML) 194-188-5 8270/clp/625
Misc Info : sstd80,d081800.b,8270c.m,3-root.sub,1,3
Comment :
Method : \\Qpitpa02\D\chem\721.i\d081800.b\8270c.m
Meth Date : 19-Aug-2000 11:44 ferguson Quant Type: ISTD
Cal Date : 18-AUG-2000 13:34 Cal File: D0818CC1.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

DL 7
8-14-00

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	4.632	4.632	(1.000)	133731	40.0000	
* 2 Naphthalene-d8	136	5.861	5.861	(1.000)	447324	40.0000	
* 3 Acenaphthene-d10	164	8.434	8.434	(1.000)	246054	40.0000	
* 4 Phenanthrene-d10	188	11.323	11.323	(1.000)	444897	40.0000	
* 5 Chrysene-d12	240	17.167	17.167	(1.000)	342342	40.0000	
* 6 Perylene-d12	264	20.136	20.136	(1.000)	268385	40.0000	
10 N-Nitrosodimethylamine	74	1.891	1.891	(0.408)	165532	80.0000	77.743
9 Pyridine	79	1.857	1.857	(0.401)	251490	80.0000	77.415
16 Methyl methanesulfonate	80	3.463	3.463	(0.748)	127180	80.0000	78.800
21 Aniline	93	4.403	4.403	(0.951)	414865	80.0000	78.667
22 Phenol	94	4.390	4.390	(0.948)	429757	80.0000	77.421
23 bis(2-Chloroethyl)ether	93	4.457	4.457	(0.962)	319707	80.0000	77.053
24 2-Chlorophenol	128	4.490	4.490	(0.970)	354991	80.0000	77.238
26 1,3-Dichlorobenzene	146	4.605	4.605	(0.994)	383277	80.0000	78.539
27 1,4-Dichlorobenzene	146	4.645	4.645	(1.003)	389639	80.0000	78.349
28 1,2-Dichlorobenzene	146	4.813	4.813	(1.039)	359279	80.0000	78.337
29 Benzyl Alcohol	108	4.773	4.773	(1.030)	233588	80.0000	76.839
30 2-Methylphenol	108	4.880	4.880	(1.054)	295682	80.0000	77.212
31 2,2'-oxybis(1-Chloropropane)	45	4.907	4.907	(1.059)	413618	80.0000	77.852
32 N-Nitroso-di-n-propylamine	70	5.055	5.055	(1.091)	210609	80.0000	76.301
192 4-Methylphenol	108	5.014	5.014	(1.083)	311476	80.0000	76.787
34 Hexachloroethane	117	5.082	5.082	(1.097)	171424	80.0000	78.502
35 Nitrobenzene	77	5.176	5.176	(0.883)	341687	80.0000	78.996
41 Isophorone	82	5.397	5.397	(0.921)	562575	80.0000	77.117
42 2-Nitrophenol	139	5.478	5.478	(0.935)	192241	80.0000	78.946
43 2,4-Dimethylphenol	107	5.512	5.512	(0.940)	323307	80.0000	77.944

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
44 bis(2-Chloroethoxy)methane	93	5.619	5.619	(0.959)	350322	80.0000	77.891
48 2,4-Dichlorophenol	162	5.720	5.720	(0.976)	275645	80.0000	78.968
49 Benzoic Acid	122	5.693	5.693	(0.971)	194330	80.0000	72.606
50 1,2,4-Trichlorobenzene	180	5.814	5.814	(0.992)	307087	80.0000	78.726
51 Naphthalene	128	5.888	5.888	(1.005)	906660	80.0000	78.893
52 4-Chloroaniline	127	5.962	5.962	(1.017)	369789	80.0000	78.082
56 Hexachlorobutadiene	225	6.089	6.089	(1.039)	192188	80.0000	79.826 (Q)
59 4-Chloro-3-Methylphenol	107	6.573	6.573	(1.121)	267033	80.0000	77.862
62 2-Methylnaphthalene	142	6.748	6.748	(1.151)	569144	80.0000	77.807
63 1-Methylnaphthalene	142	6.902	6.902	(1.178)	520379	80.0000	77.086
64 Hexachlorocyclopentadiene	237	7.077	7.077	(0.839)	233706	80.0000	79.436
66 2,4,6-Trichlorophenol	196	7.198	7.198	(0.853)	197785	80.0000	77.222
67 2,4,5-Trichlorophenol	196	7.258	7.258	(0.861)	209240	80.0000	78.467
70 2-Chloronaphthalene	162	7.473	7.473	(0.886)	551851	80.0000	78.156
73 2-Nitroaniline	65	7.695	7.695	(0.912)	181912	80.0000	77.050
76 Dimethylphthalate	163	8.085	8.085	(0.959)	662331	80.0000	77.800
78 2,6-Dinitrotoluene	165	8.192	8.192	(0.971)	160375	80.0000	77.996 (Q)
79 Acenaphthylene	152	8.165	8.165	(0.968)	823569	80.0000	78.156
81 3-Nitroaniline	138	8.427	8.427	(0.999)	173758	80.0000	78.351
82 Acenaphthene	153	8.501	8.501	(1.008)	504477	80.0000	77.849
83 2,4-Dinitrophenol	184	8.609	8.609	(1.021)	123640	80.0000	80.200
85 4-Nitrophenol	109	8.756	8.756	(1.038)	126826	80.0000	77.094
86 Dibenzofuran	168	8.790	8.790	(1.042)	777589	80.0000	77.957
87 2,4-Dinitrotoluene	165	8.911	8.911	(1.057)	216484	80.0000	78.108
91 2,3,5,6-Tetrachlorophenol	232	9.025	9.025	(1.070)	184926	80.0000	77.843
88 2,3,4,6-Tetrachlorophenol	232	9.119	9.119	(1.081)	180362	80.0000	79.647
92 2-Naphthylamine	143	9.099	9.099	(1.079)	331479	80.0000	73.987
93 Diethylphthalate	149	9.428	9.428	(1.118)	696031	80.0000	78.551
94 Fluorene	166	9.442	9.442	(1.119)	624729	80.0000	79.474
95 4-Chlorophenyl-phenylether	204	9.482	9.482	(1.124)	304403	80.0000	78.854
96 4-Nitroaniline	138	9.609	9.609	(1.139)	166088	80.0000	77.380
98 4,6-Dinitro-2-methylphenol	198	9.690	9.690	(0.856)	147308	80.0000	79.370
99 N-Nitrosodiphenylamine (1)	169	9.744	9.744	(0.861)	437152	80.0000	77.685
100 1,2-Diphenylhydrazine	77	9.791	9.791	(0.865)	656092	80.0000	75.344
106 4-Bromophenyl-phenylether	248	10.442	10.442	(0.922)	187234	80.0000	79.311
107 Hexachlorobenzene	284	10.711	10.711	(0.946)	238710	80.0000	78.670
111 Pentachlorophenol	266	11.087	11.087	(0.979)	160186	80.0000	78.751 (Q)
115 Phenanthrene	178	11.376	11.376	(1.005)	855060	80.0000	77.799
116 Anthracene	178	11.470	11.470	(1.013)	854826	80.0000	77.947
119 Carbazole	167	11.860	11.860	(1.047)	751518	80.0000	77.839 (Q)
120 Di-n-Butylphthalate	149	12.895	12.895	(1.139)	1068994	80.0000	77.771
123 Fluoranthene	202	13.956	13.956	(1.233)	843841	80.0000	77.427
124 Benzidine	184	14.339	14.339	(0.835)	260302	80.0000	80.441
125 Pyrene	202	14.433	14.433	(0.841)	815725	80.0000	79.710
131 Butylbenzylphthalate	149	16.206	16.206	(0.944)	428484	80.0000	78.880
135 3,3'-Dichlorobenzidine	252	17.207	17.207	(1.002)	305341	80.0000	80.772
136 Benzo(a)Anthracene	228	17.133	17.133	(0.998)	727703	80.0000	79.534

667 223

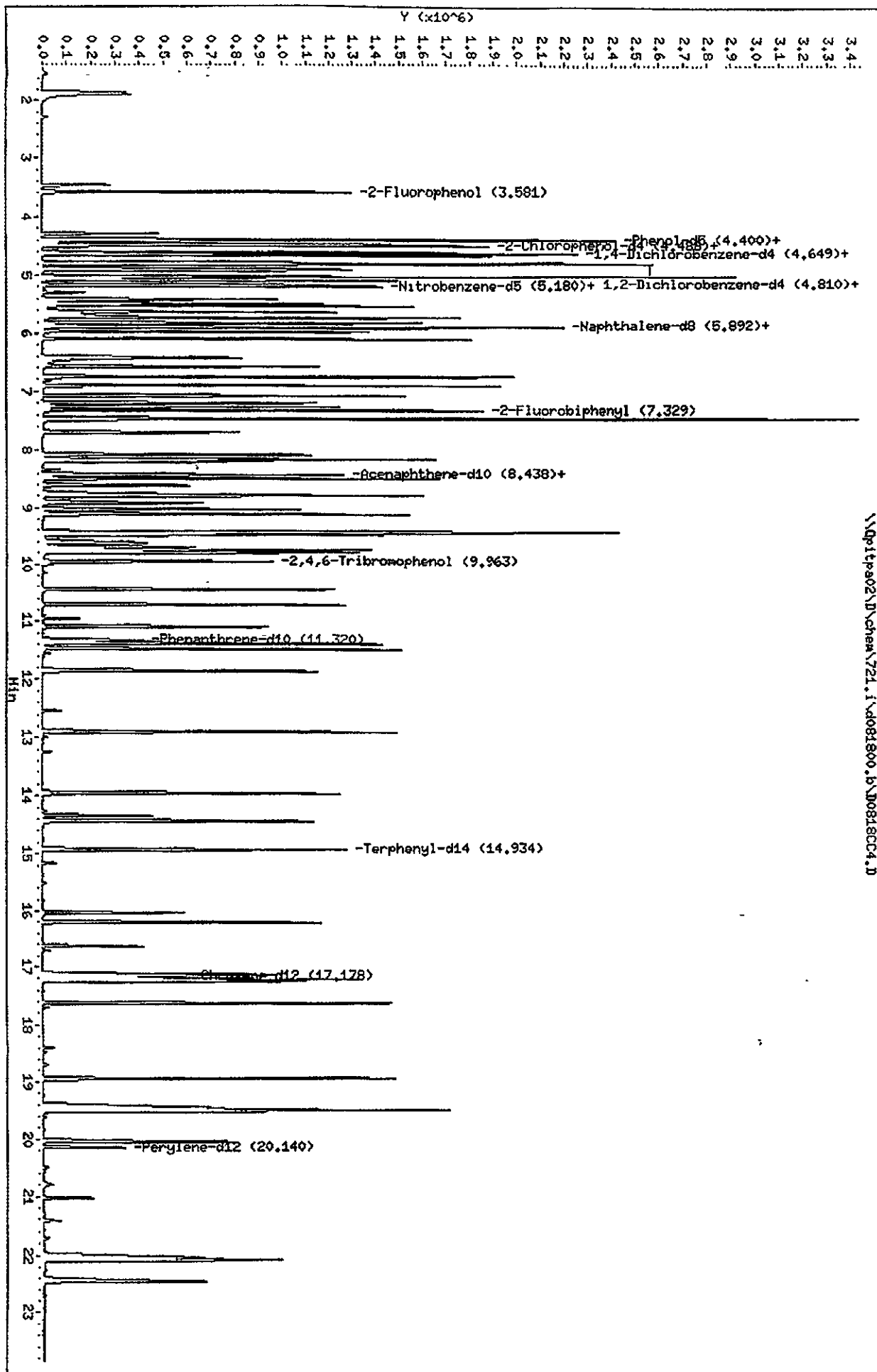
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
137 Chrysene	228	17.234	17.234	(1.004)	630720	80.0000	78.312
139 bis(2-ethylhexyl)Phthalate	149	17.624	17.624	(1.027)	577071	80.0000	78.808
140 Di-n-octylphthalate	149	18.941	18.941	(0.941)	995867	80.0000	77.527
141 Benzo(b)fluoranthene	252	19.431	19.431	(0.965)	713567	80.0000	74.236 (H)
142 Benzo(k)fluoranthene	252	19.485	19.485	(0.968)	653280	80.0000	82.898
143 7,12-dimethylbenz[a]anthracen	256	19.498	19.498	(0.968)	321961	80.0000	77.898
146 Benzo(a)pyrene	252	20.036	20.036	(0.995)	599912	80.0000	78.389
149 Indeno(1,2,3-cd)pyrene	276	22.024	22.024	(1.094)	673894	80.0000	82.890 (H)
150 Dibenz(a,h)anthracene	278	22.071	22.071	(1.096)	655855	80.0000	82.486
151 Benzo(g,h,i)perylene	276	22.441	22.441	(1.114)	612033	80.0000	82.935
\$ 154 Nitrobenzene-d5	82	5.156	5.156	(0.880)	346563	80.0000	78.607
\$ 155 2-Fluorobiphenyl	172	7.325	7.325	(0.869)	624183	80.0000	77.853
\$ 156 Terphenyl-d14	244	14.923	14.923	(0.869)	651773	80.0000	79.191
\$ 157 Phenol-d5	99	4.383	4.383	(0.946)	416517	80.0000	77.381
\$ 158 2-Fluorophenol	112	3.577	3.577	(0.772)	355918	80.0000	78.634
\$ 159 2,4,6-Tribromophenol	330	9.952	9.952	(0.879)	139285	80.0000	78.687
\$ 186 2-Chlorophenol-d4	132	4.477	4.477	(0.967)	330306	80.0000	78.217
\$ 187 1,2-Dichlorobenzene-d4	152	4.800	4.800	(1.036)	234330	80.0000	77.862

QC Flag Legend

Q - Qualifier signal failed the ratio test.
 H - Operator selected an alternate compound hit.

Data File: \\Apitpa02\chem\724.i\4081800.b\0081800C4.D
 Date: 18-AUG-2000 15:04
 Client ID: SST120
 Sample Info: sst120 (60UG/ML) 194-189-6 8270/c1p/625
 Column phase: Hp5-MS

Instrument: 724.i
 Operator: 001562, DLF
 Column diameter: 0.25



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STL Pittsburgh

Semivolatle REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081800.b\D0818CC4.D
Lab Smp Id: sstd120 Client Smp ID: SSTD120
Inj Date : 18-AUG-2000 15:04
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd120 (60UG/ML) 194-188-6 8270/clp/625
Misc Info : sstd120,d081800.b,8270c.m,3-root.sub,1,4
Comment :
Method : \\Qpitpa02\D\chem\721.i\d081800.b\8270c.m
Meth Date : 19-Aug-2000 11:45 ferguson Quant Type: ISTD
Cal Date : 18-AUG-2000 13:34 Cal File: D0818CC1.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

OK
8-19-00

Compound Sublist: 3-root.sub

						AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*****		----	--	-----	-----	-----	-----	-----
*	1 1,4-Dichlorobenzene-d4	152	4.635	4.635	(1.000)	116067	40.0000	(Q)
*	2 Naphthalene-d8	136	5.864	5.864	(1.000)	389437	40.0000	
*	3 Acenaphthene-d10	164	8.437	8.437	(1.000)	210140	40.0000	
*	4 Phenanthrene-d10	188	11.326	11.326	(1.000)	387116	40.0000	
*	5 Chrysene-d12	240	17.177	17.177	(1.000)	280572	40.0000	
*	6 Perylene-d12	264	20.140	20.140	(1.000)	219626	40.0000	
	10 N-Nitrosodimethylamine	74	1.894	1.894	(0.409)	222728	120.000	120.52
	9 Pyridine	79	1.854	1.854	(0.400)	335473	120.000	118.98
	16 Methyl methanesulfonate	80	3.466	3.466	(0.748)	168895	120.000	120.57
	21 Aniline	93	4.407	4.407	(0.951)	539970	120.000	117.97
	22 Phenol	94	4.400	4.400	(0.949)	562249	120.000	116.70
	23 bis(2-Chloroethyl) ether	93	4.460	4.460	(0.962)	423502	120.000	117.60 (M)
	24 2-Chlorophenol	128	4.494	4.494	(0.970)	477624	120.000	119.74
	26 1,3-Dichlorobenzene	146	4.608	4.608	(0.994)	512820	120.000	121.08
	27 1,4-Dichlorobenzene	146	4.649	4.649	(1.003)	512264	120.000	118.68
	28 1,2-Dichlorobenzene	146	4.810	4.810	(1.038)	475953	120.000	119.57
	29 Benzyl Alcohol	108	4.783	4.783	(1.032)	319026	120.000	120.92
	30 2-Methylphenol	108	4.884	4.884	(1.054)	395845	120.000	119.10
	31 2,2'-oxybis(1-Chloropropane)	45	4.911	4.911	(1.059)	548130	120.000	118.87 (Q)
	32 N-Nitroso-di-n-propylamine	70	5.065	5.065	(1.093)	288191	120.000	120.30
192	4-Methylphenol	108	5.018	5.018	(1.083)	415128	120.000	117.92
	34 Hexachloroethane	117	5.078	5.078	(1.096)	227629	120.000	120.10
	35 Nitrobenzene	77	5.179	5.179	(0.883)	453264	120.000	120.37
41	Isophorone	82	5.408	5.408	(0.922)	754019	120.000	118.72
42	2-Nitrophenol	139	5.482	5.482	(0.935)	254334	120.000	119.97
43	2,4-Dimethylphenol	107	5.515	5.515	(0.940)	432091	120.000	119.65

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
44 bis(2-Chloroethoxy)methane	93	5.623	5.623	(0.959)	464163	120.000	118.54
48 2,4-Dichlorophenol	162	5.723	5.723	(0.976)	361308	120.000	118.89
49 Benzoic Acid	122	5.723	5.723	(0.976)	303577	120.000	130.28(M)
50 1,2,4-Trichlorobenzene	180	5.817	5.817	(0.992)	414861	120.000	122.16
51 Naphthalene	128	5.891	5.891	(1.005)	1212936	120.000	121.23
52 4-Chloroaniline	127	5.965	5.965	(1.017)	491751	120.000	119.27
56 Hexachlorobutadiene	225	6.093	6.093	(1.039)	257318	120.000	122.76(Q)
59 4-Chloro-3-Methylphenol	107	6.583	6.583	(1.123)	356242	120.000	119.31
62 2-Methylnaphthalene	142	6.751	6.751	(1.151)	767462	120.000	120.51
63 1-Methylnaphthalene	142	6.906	6.906	(1.178)	701656	120.000	119.39
64 Hexachlorocyclopentadiene	237	7.074	7.074	(0.838)	318116	120.000	126.61
66 2,4,6-Trichlorophenol	196	7.201	7.201	(0.854)	268242	120.000	122.63
67 2,4,5-Trichlorophenol	196	7.268	7.268	(0.861)	277013	120.000	121.64
70 2-Chloronaphthalene	162	7.477	7.477	(0.886)	739567	120.000	122.64
73 2-Nitroaniline	65	7.705	7.705	(0.913)	246616	120.000	122.31
76 Dimethylphthalate	163	8.095	8.095	(0.959)	892986	120.000	122.82
78 2,6-Dinitrotoluene	165	8.202	8.202	(0.972)	213047	120.000	121.32(Q)
79 Acenaphthylene	152	8.169	8.169	(0.968)	1090441	120.000	121.17
81 3-Nitroaniline	138	8.437	8.437	(1.000)	226478	120.000	119.58
82 Acenaphthene	153	8.505	8.505	(1.008)	664288	120.000	120.03
83 2,4-Dinitrophenol	184	8.619	8.619	(1.021)	166580	120.000	126.52
85 4-Nitrophenol	109	8.773	8.773	(1.040)	172467	120.000	122.75(Q)
86 Dibenzofuran	168	8.793	8.793	(1.042)	1038138	120.000	121.87
87 2,4-Dinitrotoluene	165	8.921	8.921	(1.057)	291450	120.000	123.13
91 2,3,5,6-Tetrachlorophenol	232	9.035	9.035	(1.071)	249243	120.000	122.85
88 2,3,4,6-Tetrachlorophenol	232	9.123	9.123	(1.081)	236992	120.000	122.54
92 2-Naphthylamine	143	9.116	9.116	(1.080)	405314	120.000	105.93
93 Diethylphthalate	149	9.438	9.438	(1.119)	927953	120.000	122.62
94 Fluorene	166	9.452	9.452	(1.120)	820537	120.000	122.22
95 4-Chlorophenyl-phenylether	204	9.485	9.485	(1.124)	402782	120.000	122.17
96 4-Nitroaniline	138	9.633	9.633	(1.142)	219530	120.000	119.76
98 4,6-Dinitro-2-methylphenol	198	9.707	9.707	(0.857)	200010	120.000	123.85
99 N-Nitrosodiphenylamine (1)	169	9.754	9.754	(0.861)	593863	120.000	121.28
100 1,2-Diphenylhydrazine	77	9.801	9.801	(0.865)	964069	120.000	127.24
106 4-Bromophenyl-phenylether	248	10.453	10.453	(0.923)	248297	120.000	120.88
107 Hexachlorobenzene	284	10.715	10.715	(0.946)	316887	120.000	120.02
111 Pentachlorophenol	266	11.098	11.098	(0.980)	213992	120.000	120.90(Q)
115 Phenanthrene	178	11.387	11.387	(1.005)	1133045	120.000	118.48
116 Anthracene	178	11.481	11.481	(1.014)	1118968	120.000	117.26
119 Carbazole	167	11.863	11.863	(1.047)	966734	120.000	115.08(Q)
120 Di-n-Butylphthalate	149	12.898	12.898	(1.139)	1389511	120.000	116.18
123 Fluoranthene	202	13.966	13.966	(1.233)	1096115	120.000	115.59
124 Benzidine	184	14.342	14.342	(0.835)	308726	120.000	116.41
125 Pyrene	202	14.436	14.436	(0.840)	1021646	120.000	121.81
131 Butylbenzylphthalate	149	16.210	16.210	(0.944)	546479	120.000	122.75
135 3,3'-Dichlorobenzidine	252	17.211	17.211	(1.002)	376696	120.000	121.58
136 Benzo(a)Anthracene	228	17.144	17.144	(0.998)	923602	120.000	123.17

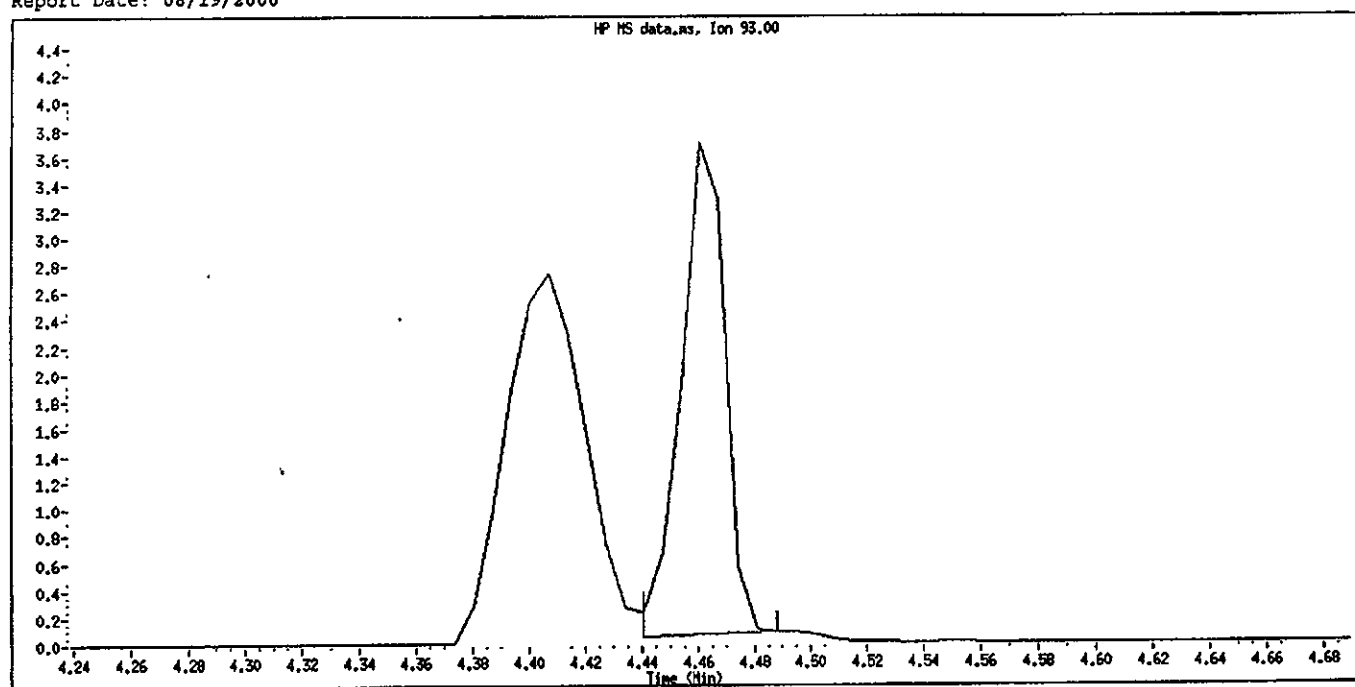
667 227

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(NG)	(NG)
137 Chrysene	228	17.244	17.244	(1.004)	806851		120.000	122.24
139 bis(2-ethylhexyl)Phthalate	149	17.634	17.634	(1.027)	757687		120.000	126.25
140 Di-n-octylphthalate	149	18.951	18.951	(0.941)	1266602		120.000	120.49
141 Benzo(b)fluoranthene	252	19.448	19.448	(0.966)	1048391		120.000	133.28 (H)
142 Benzo(k)fluoranthene	252	19.508	19.508	(0.969)	686379		120.000	106.43
143 7,12-dimethylbenz[a]anthracen	256	19.508	19.508	(0.969)	420171		120.000	124.23
146 Benzo(a)pyrene	252	20.046	20.046	(0.995)	764416		120.000	122.06
149 Indeno(1,2,3-cd)pyrene	276	22.034	22.034	(1.094)	879910		120.000	132.26 (H)
150 Dibenz(a,h)anthracene	278	22.088	22.088	(1.097)	877496		120.000	134.86
151 Benzo(g,h,i)perylene	276	22.458	22.458	(1.115)	813234		120.000	134.66
\$ 154 Nitrobenzene-d5	82	5.159	5.159	(0.880)	462317		120.000	120.45
\$ 155 2-Fluorobiphenyl	172	7.329	7.329	(0.869)	839007		120.000	122.53
\$ 156 Terphenyl-d14	244	14.934	14.934	(0.869)	847811		120.000	125.69
\$ 157 Phenol-d5	99	4.387	4.387	(0.946)	544157		120.000	116.48
\$ 158 2-Fluorophenol	112	3.580	3.580	(0.772)	474529		120.000	120.79
\$ 159 2,4,6-Tribromophenol	330	9.962	9.962	(0.880)	189668		120.000	123.14
\$ 186 2-Chlorophenol-d4	132	4.481	4.481	(0.967)	441613		120.000	120.49
\$ 187 1,2-Dichlorobenzene-d4	152	4.803	4.803	(1.036)	312098		120.000	119.48

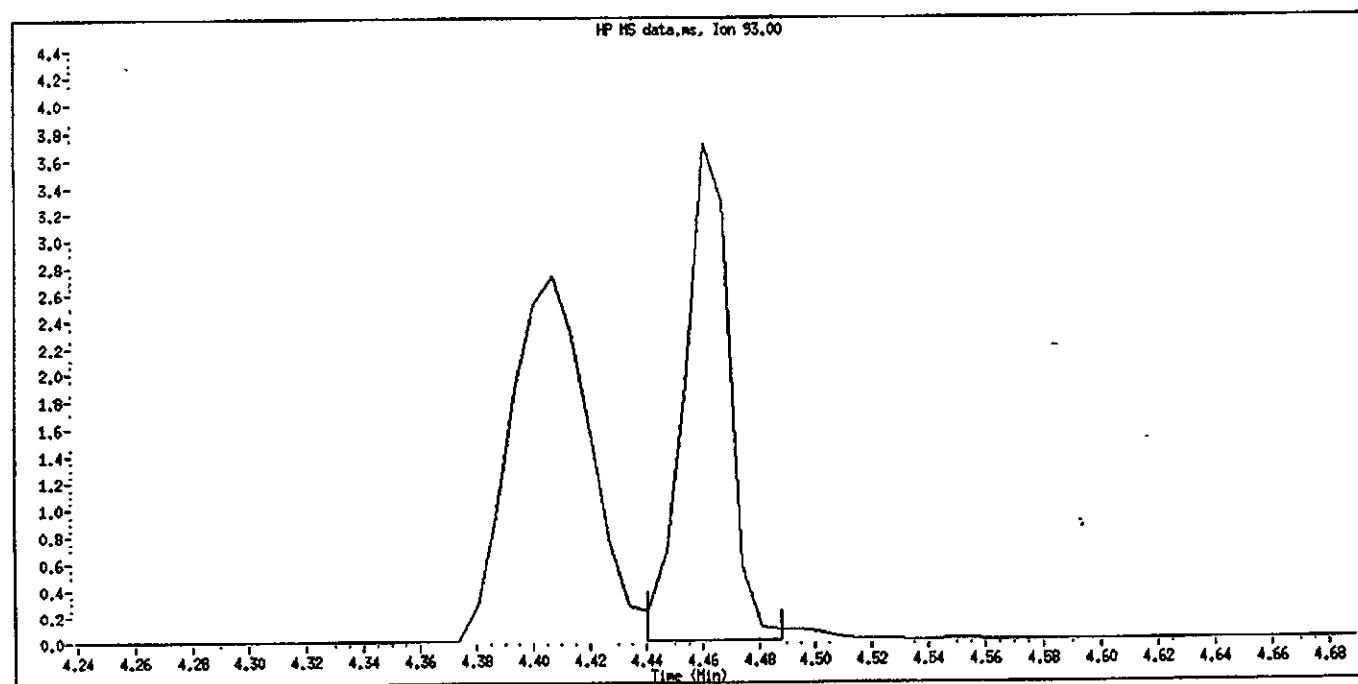
QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

667 228



Original Integration



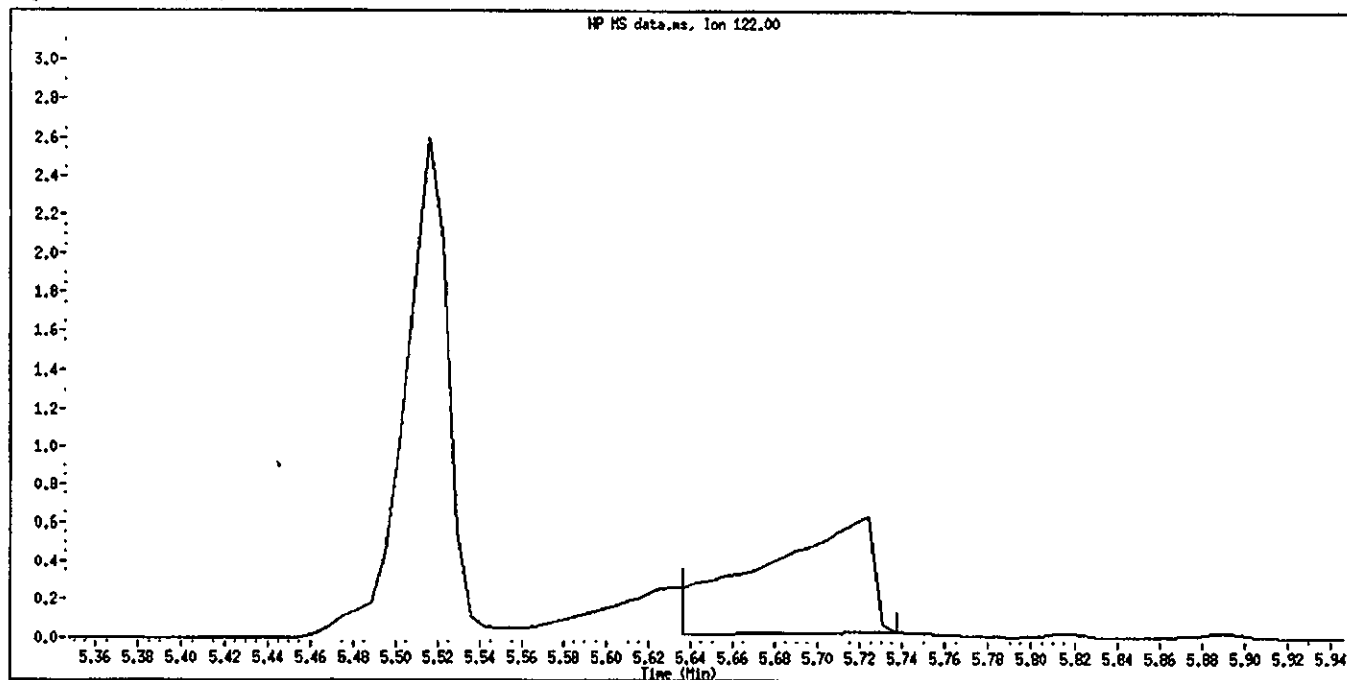
Manual Integration

Manually Integrated By: FergusonD

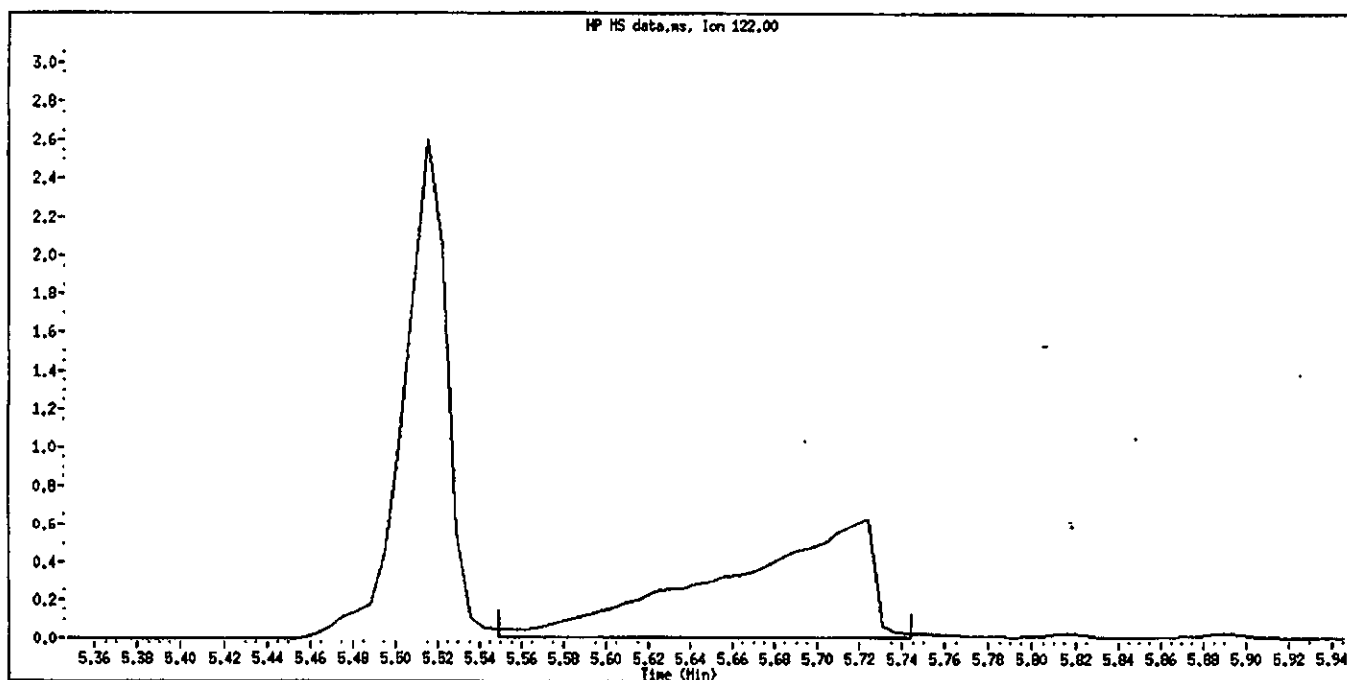
Manual Integration Reason: Unknown

Data File Name: D0818CC4.D
Inj. Date and Time: 18-AUG-2000 15:04
Instrument ID: 721.i
Client ID: SSTD120
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 08/19/2000

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Original Integration

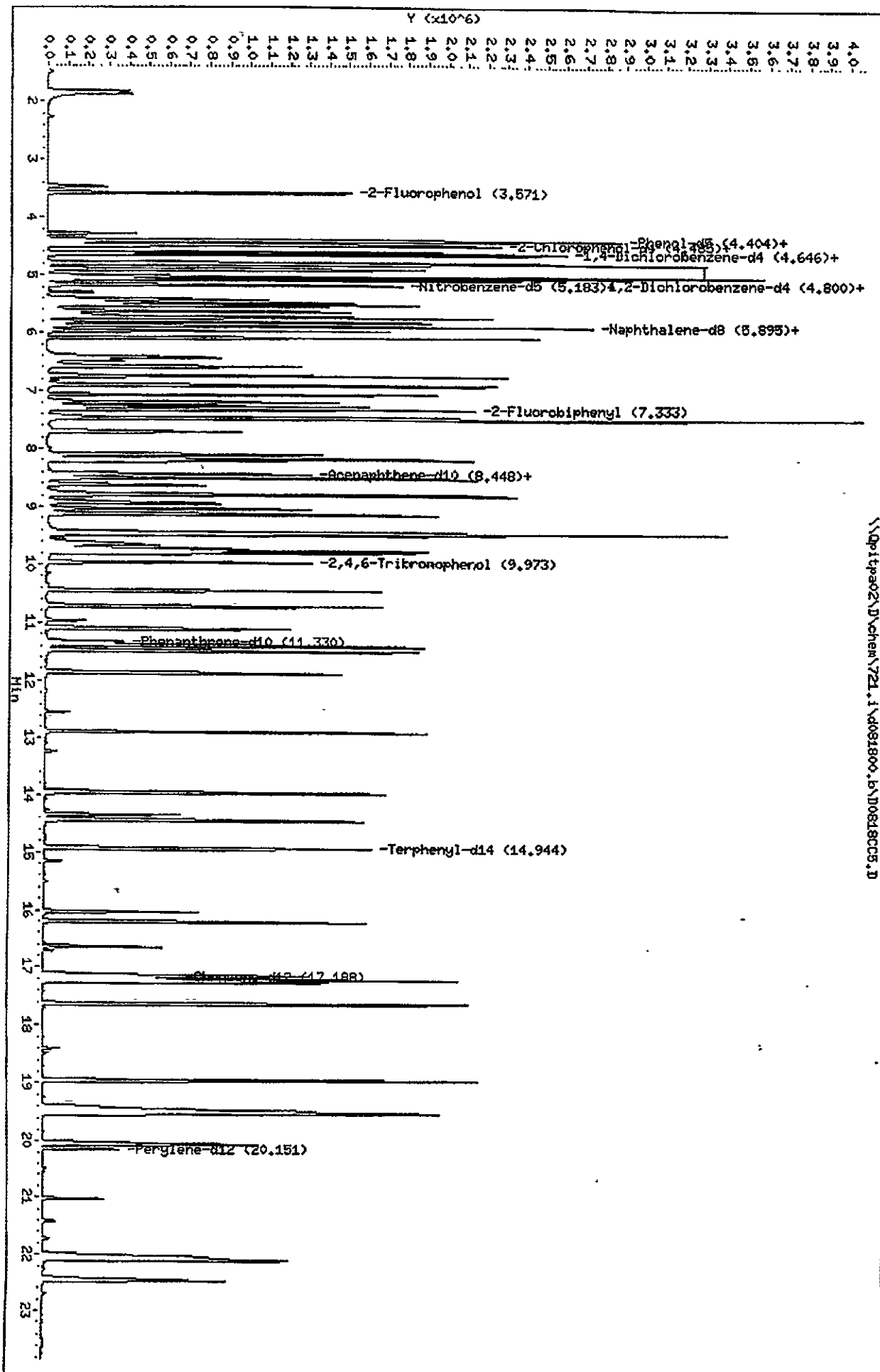


Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Unknown

Data File: \\q:\tpa02\chem\721.1\4081800.b\00818005.D
 Date: 18-AUG-2000 15:33
 Client ID: SSTDA60
 Sample Info: sscd160 (80UG/ML) 194-488-7 8270/olp/625
 Column phase: Hp5-MS

Instrument: 721.i
 Operator: 001562, DLF
 Column diameter: 0.25



667 231

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081800.b\D0818CC5.D
Lab Smp Id: sstd160 Client Smp ID: SSTD160
Inj Date : 18-AUG-2000 15:33
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd160 (80UG/ML) 194-188-7 8270/clp/625
Misc Info : sstd160,d081800.b,8270c.m,3-root.sub,1,5
Comment :
Method : \\Qpitpa02\D\chem\721.i\d081800.b\8270c.m
Meth Date : 19-Aug-2000 11:47 ferguson Quant Type: ISTD
Cal Date : 18-AUG-2000 15:33 Cal File: D0818CC5.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

OK
8-19-00

Compound Sublist: 3-root.sub

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
*****	****	..	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	4.632	4.632	(1.000)	113760	40.0000	(Q)
* 2 Naphthalene-d8	136	5.868	5.868	(1.000)	389217	40.0000	
* 3 Acenaphthene-d10	164	8.441	8.441	(1.000)	223888	40.0000	
* 4 Phenanthrene-d10	188	11.330	11.330	(1.000)	394874	40.0000	
* 5 Chrysene-d12	240	17.188	17.188	(1.000)	315656	40.0000	
* 6 Perylene-d12	264	20.150	20.150	(1.000)	238620	40.0000	
10 N-Nitrosodimethylamine	74	1.864	1.864	(0.403)	283693	160.000	156.63
9 Pyridine	79	1.810	1.810	(0.391)	424686	160.000	153.68
16 Methyl methanesulfonate	80	3.456	3.456	(0.746)	214630	160.000	156.33
21 Aniline	93	4.410	4.410	(0.952)	689037	160.000	153.59
22 Phenol	94	4.403	4.403	(0.951)	718954	160.000	152.26
23 bis(2-Chloroethyl)ether	93	4.464	4.464	(0.964)	552209	160.000	156.45 (M)
24 2-Chlorophenol	128	4.491	4.491	(0.970)	628737	160.000	160.82 (A)
26 1,3-Dichlorobenzene	146	4.605	4.605	(0.994)	650786	160.000	156.77
27 1,4-Dichlorobenzene	146	4.652	4.652	(1.004)	654249	160.000	154.65
28 1,2-Dichlorobenzene	146	4.813	4.813	(1.039)	607057	160.000	155.60
29 Benzyl Alcohol	108	4.786	4.786	(1.033)	411173	160.000	159.00
30 2-Methylphenol	108	4.887	4.887	(1.055)	522745	160.000	160.47 (A)
31 2,2'-oxybis(1-Chloropropane)	45	4.907	4.907	(1.059)	685638	160.000	151.71 (Q)
32 N-Nitroso-di-n-propylamine	70	5.069	5.069	(1.094)	363011	160.000	154.60
192 4-Methylphenol	108	5.028	5.028	(1.086)	547015	160.000	158.53
34 Hexachloroethane	117	5.082	5.082	(1.097)	294136	160.000	158.34
35 Nitrobenzene	77	5.183	5.183	(0.883)	590774	160.000	156.97
41 Isophorone	82	5.418	5.418	(0.923)	1029721	160.000	162.22 (A)
42 2-Nitrophenol	139	5.485	5.485	(0.935)	337937	160.000	159.50
43 2,4-Dimethylphenol	107	5.525	5.525	(0.942)	586475	160.000	162.50 (A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
44 bis(2-Chloroethoxy)methane	93	5.626	5.626	(0.959)	626925	160.000	160.20 (A)
48 2,4-Dichlorophenol	162	5.734	5.734	(0.977)	493435	160.000	162.46 (A)
49 Benzoic Acid	122	5.754	5.754	(0.981)	413742	160.000	177.66 (A)
50 1,2,4-Trichlorobenzene	180	5.821	5.821	(0.992)	547903	160.000	161.43 (A)
51 Naphthalene	128	5.895	5.895	(1.005)	1597717	160.000	159.78
52 4-Chloroaniline	127	5.975	5.975	(1.018)	651908	160.000	158.20
56 Hexachlorobutadiene	225	6.090	6.090	(1.038)	336166	160.000	160.47 (AQ)
59 4-Chloro-3-Methylphenol	107	6.600	6.600	(1.125)	469001	160.000	157.17
62 2-Methylnaphthalene	142	6.755	6.755	(1.151)	1024251	160.000	160.93 (A)
63 1-Methylnaphthalene	142	6.909	6.909	(1.177)	927766	160.000	157.95
64 Hexachlorocyclopentadiene	237	7.077	7.077	(0.838)	426149	160.000	159.19
66 2,4,6-Trichlorophenol	196	7.212	7.212	(0.854)	383416	160.000	164.52 (A)
67 2,4,5-Trichlorophenol	196	7.279	7.279	(0.862)	377707	160.000	155.67
70 2-Chloronaphthalene	162	7.487	7.487	(0.887)	1003360	160.000	156.17
73 2-Nitroaniline	65	7.715	7.715	(0.914)	338380	160.000	157.51
76 Dimethylphthalate	163	8.105	8.105	(0.960)	1190195	160.000	153.65
78 2,6-Dinitrotoluene	165	8.212	8.212	(0.973)	290369	160.000	155.20 (Q)
79 Acenaphthylene	152	8.179	8.179	(0.969)	1494770	160.000	155.90
81 3-Nitroaniline	138	8.454	8.454	(1.002)	313203	160.000	155.21
82 Acenaphthene	153	8.515	8.515	(1.009)	936356	160.000	158.80
83 2,4-Dinitrophenol	184	8.636	8.636	(1.023)	239050	160.000	170.41 (A)
85 4-Nitrophenol	109	8.797	8.797	(1.042)	255191	160.000	170.48 (AQ)
86 Dibenzofuran	168	8.804	8.804	(1.043)	1430449	160.000	157.61 (Q)
87 2,4-Dinitrotoluene	165	8.945	8.945	(1.060)	397193	160.000	157.50
91 2,3,5,6-Tetrachlorophenol	232	9.045	9.045	(1.072)	348709	160.000	161.32 (A)
88 2,3,4,6-Tetrachlorophenol	232	9.140	9.140	(1.083)	328690	160.000	159.52
92 2-Naphthylamine	143	9.133	9.133	(1.082)	534736	160.000	131.17
93 Diethylphthalate	149	9.449	9.449	(1.119)	1245712	160.000	154.50
94 Fluorene	166	9.462	9.462	(1.121)	1072469	160.000	149.94
95 4-Chlorophenyl-phenylether	204	9.496	9.496	(1.125)	547189	160.000	155.78
96 4-Nitroaniline	138	9.664	9.664	(1.145)	308524	160.000	157.97
98 4,6-Dinitro-2-methylphenol	198	9.731	9.731	(0.859)	284070	160.000	172.45 (A)
99 N-Nitrosodiphenylamine (1)	169	9.771	9.771	(0.862)	795767	160.000	159.33
100 1,2-Diphenylhydrazine	77	9.811	9.811	(0.866)	1263074	160.000	163.42 (A)
106 4-Bromophenyl-phenylether	248	10.456	10.456	(0.923)	339496	160.000	162.03 (A)
107 Hexachlorobenzene	284	10.725	10.725	(0.947)	453027	160.000	168.21 (A)
111 Pentachlorophenol	266	11.108	11.108	(0.980)	308948	160.000	171.13 (AQ)
115 Phenanthrene	178	11.397	11.397	(1.006)	1572226	160.000	161.17 (A)
116 Anthracene	178	11.491	11.491	(1.014)	1544446	160.000	158.67
119 Carbazole	167	11.874	11.874	(1.048)	1381046	160.000	161.16 (AQ)
120 Di-n-Butylphthalate	149	12.908	12.908	(1.139)	1940042	160.000	159.02
123 Fluoranthene	202	13.976	13.976	(1.234)	1569160	160.000	162.22 (A)
124 Benzidine	184	14.353	14.353	(0.835)	432330	160.000	144.90
125 Pyrene	202	14.453	14.453	(0.841)	1506773	160.000	159.68
131 Butylbenzylphthalate	149	16.220	16.220	(0.944)	805772	160.000	160.88 (A)
135 3,3'-Dichlorobenzidine	252	17.228	17.228	(1.002)	563872	160.000	161.77 (A)
136 Benzo (a) Anthracene	228	17.161	17.161	(0.998)	1371356	160.000	162.55 (A)

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
137 Chrysene	228	17.261	17.261	(1.004)	1225676	160.000	165.05 (A)
139 bis(2-ethylhexyl)Phthalate	149	17.638	17.638	(1.026)	1115809	160.000	165.26 (A)
140 Di-n-octylphthalate	149	18.968	18.968	(0.941)	1948748	160.000	170.63 (A)
141 Benzo(b)fluoranthene	252	19.478	19.478	(0.967)	1639598	160.000	191.85 (AH)
142 Benzo(k)fluoranthene	252	19.539	19.539	(0.970)	968981	160.000	138.30 (M)
143 7,12-dimethylbenz[a]anthracen	256	19.532	19.532	(0.969)	635297	160.000	172.88 (A)
146 Benzo(a)pyrene	252	20.063	20.063	(0.996)	1105928	160.000	162.54 (A)
149 Indeno(1,2,3-cd)pyrene	276	22.045	22.045	(1.094)	1246224	160.000	172.41 (AH)
150 Dibenzo(a,h)anthracene	278	22.098	22.098	(1.097)	1196898	160.000	169.31 (A)
151 Benzo(g,h,i)perylene	276	22.474	22.474	(1.115)	1088744	160.000	165.94 (A)
\$ 154 Nitrobenzene-d5	82	5.163	5.163	(0.880)	612492	160.000	159.66
\$ 155 2-Fluorobiphenyl	172	7.339	7.339	(0.869)	1138477	160.000	156.06
\$ 156 Terphenyl-d14	244	14.944	14.944	(0.869)	1215070	160.000	160.11 (A)
\$ 157 Phenol-d5	99	4.397	4.397	(0.949)	701861	160.000	153.28
\$ 158 2-Fluorophenol	112	3.577	3.577	(0.772)	593493	160.000	154.14
\$ 159 2,4,6-Tribromophenol	330	9.973	9.973	(0.880)	262317	160.000	166.96 (A)
\$ 186 2-Chlorophenol-d4	132	4.477	4.477	(0.967)	570512	160.000	158.81
\$ 187 1,2-Dichlorobenzene-d4	152	4.800	4.800	(1.036)	398419	160.000	155.62

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File Name: D0818CC5.D

Inj. Date and Time: 18-AUG-2000 15:33

Instrument ID: 721.i

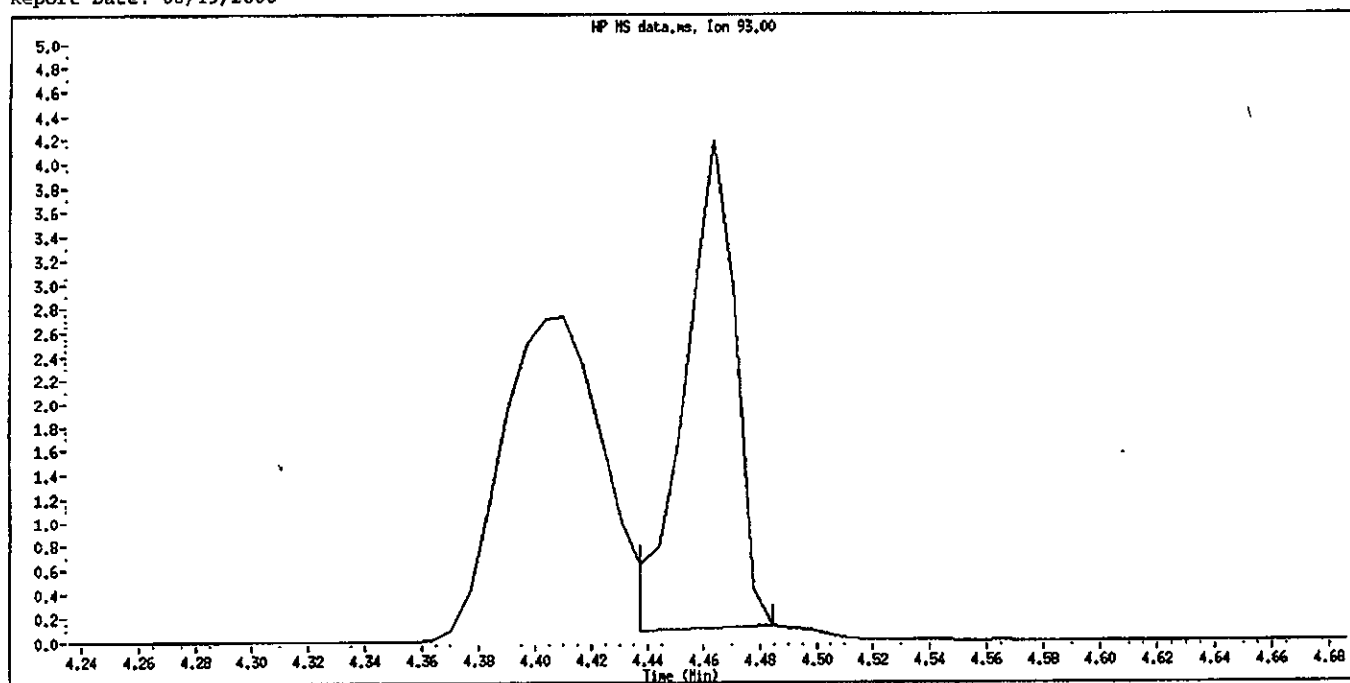
Client ID: SSTD160

Compound Name: bis(2-Chloroethyl)ether

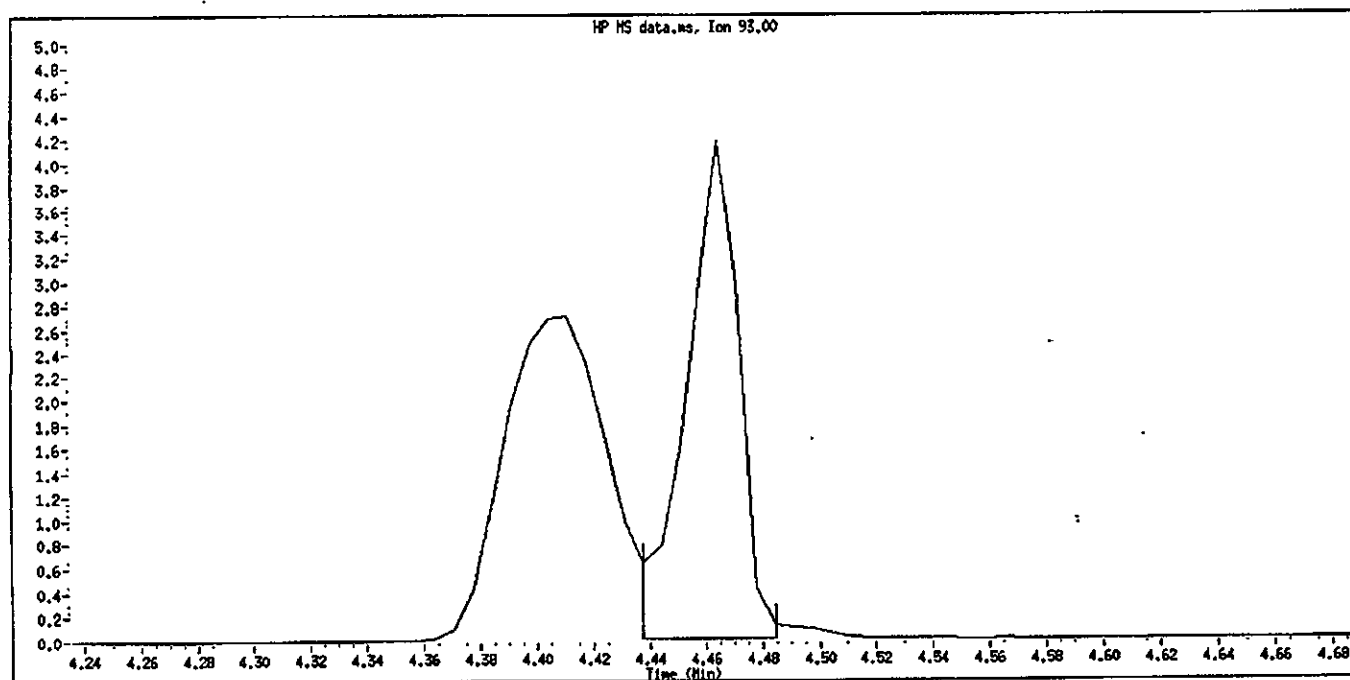
CAS #: 111-44-4

Report Date: 08/19/2000

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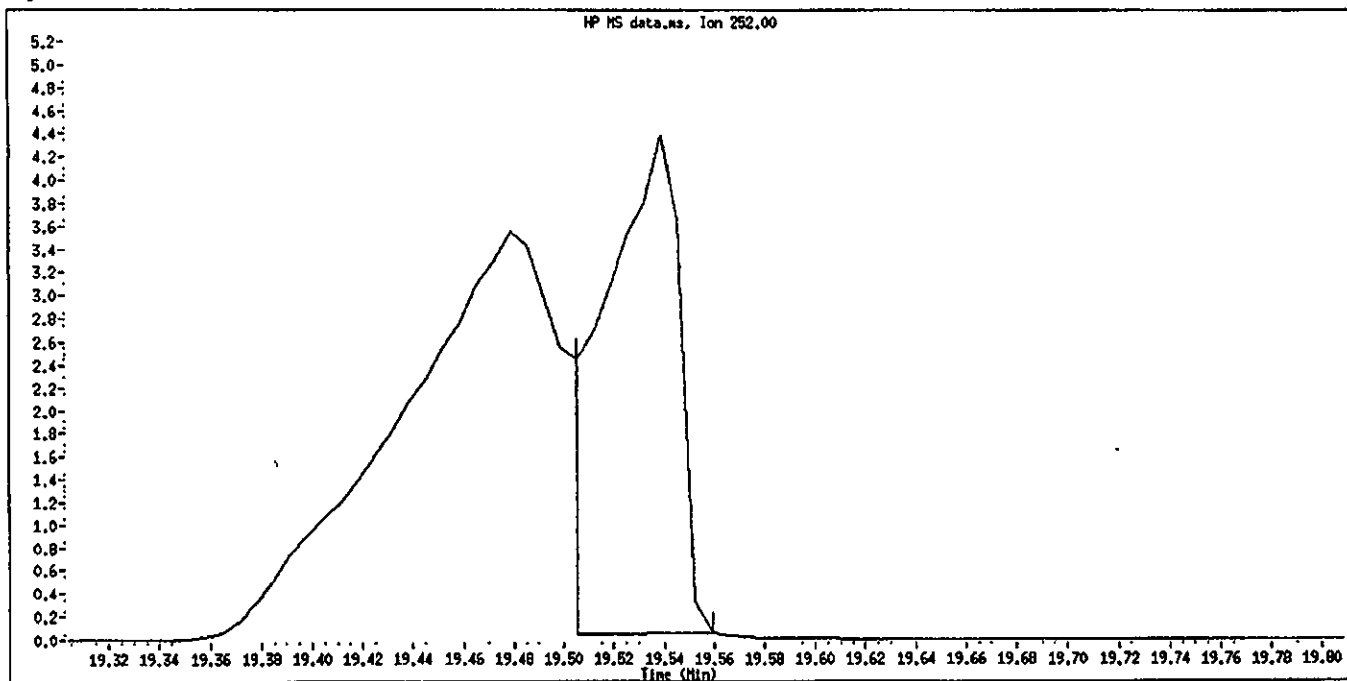
Original Integration



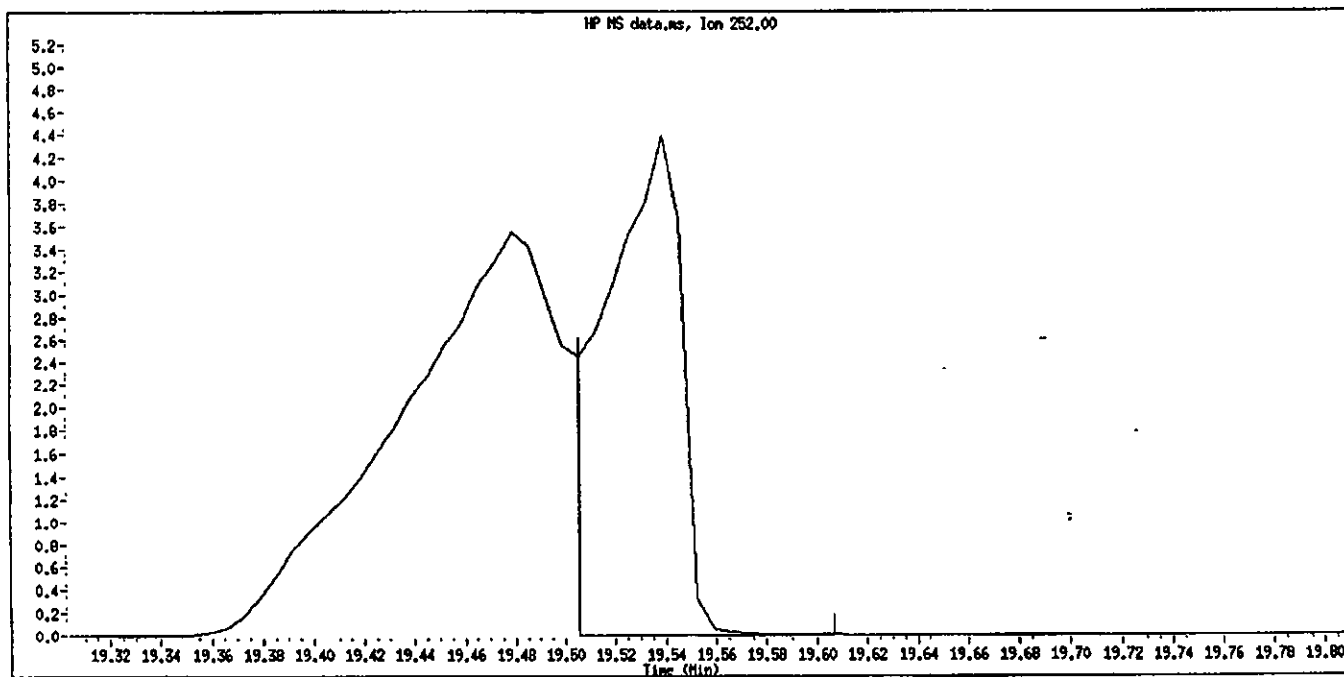
Manual Integration

Manually Integrated By: FergusonD

Manual Integration Reason: Unknown



Original Integration



Manual Integration

Manually Integrated By: FergusonD

Manual Integration Reason: Unknown

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FORM 7

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0H120157

Instrument ID: 721

Calibration Date: 08/18/00

Time: 1729

Lab File ID: D0818CCC

Init. Calib. Date(s): 08/18/00

08/18/00

Init. Calib. Times: 1334

1533

GC Column: HP5-MS

ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.660	1.779	0.01	7.2	20.0
bis(2-Chloroethyl) ether	1.241	1.331	0.01	7.2	50.0
2-Chlorophenol	1.375	1.441	0.01	4.8	50.0
1,3-Dichlorobenzene	1.460	1.546	0.01	5.9	50.0
1,4-Dichlorobenzene	1.488	1.585	0.01	6.5	20.0
1,2-Dichlorobenzene	1.372	1.467	0.01	6.9	50.0
2-Methylphenol	1.146	1.191	0.01	3.9	50.0
2,2'-oxybis(1-Chloropropane)	1.589	1.748	0.01	10.0	50.0
4-Methylphenol	1.213	1.259	0.01	3.8	50.0
Hexachloroethane	0.653	0.704	0.01	7.8	50.0
Nitrobenzene	0.387	0.414	0.01	7.0	50.0
Isophorone	0.652	0.697	0.01	6.9	50.0
2-Nitrophenol	0.218	0.230	0.01	5.5	20.0
2,4-Dimethylphenol	0.371	0.390	0.01	5.1	50.0
bis(2-Chloroethoxy) methane	0.402	0.432	0.01	7.5	50.0
N-Nitroso-di-n-propylamine	0.826	0.863	0.05	4.5	50.0
2,4-Dichlorophenol	0.312	0.328	0.01	5.1	20.0
1,2,4-Trichlorobenzene	0.349	0.369	0.01	5.7	50.0
Naphthalene	1.027	1.090	0.01	6.1	50.0
4-Chloroaniline	0.423	0.453	0.01	7.1	50.0
Hexachlorobutadiene	0.215	0.228	0.01	6.0	20.0
4-Chloro-3-Methylphenol	0.307	0.326	0.01	6.2	20.0
2-Methylnaphthalene	0.654	0.689	0.01	5.4	50.0
Hexachlorocyclopentadiene	0.478	0.508	0.05	6.3	50.0
2,4,6-Trichlorophenol	0.416	0.444	0.01	6.7	20.0
2,4,5-Trichlorophenol	0.434	0.472	0.01	8.8	50.0
2-Chloronaphthalene	1.148	1.263	0.01	10.0	50.0
2-Nitroaniline	0.384	0.411	0.01	7.0	50.0
Dimethylphthalate	1.384	1.481	0.01	7.0	50.0
Acenaphthylene	1.713	1.856	0.01	8.3	50.0
2,6-Dinitrotoluene	0.334	0.358	0.01	7.2	50.0
3-Nitroaniline	0.360	0.378	0.01	5.0	50.0
Acenaphthene	1.054	1.134	0.01	7.6	20.0
2,4-Dinitrophenol	0.251	0.259	0.05	3.2	50.0
4-Nitrophenol	0.268	0.276	0.05	3.0	50.0
Dibenzofuran	1.622	1.711	0.01	5.5	50.0
2,4-Dinitrotoluene	0.451	0.474	0.01	5.1	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

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Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0H120157

Instrument ID: 721

Calibration Date: 08/18/00

Time: 1729

Lab File ID: D0818CCC

Init. Calib. Date(s): 08/18/00

08/18/00

Init. Calib. Times: 1334

1533

GC Column: HP5-MS

ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.440	1.534	0.01	6.5	50.0
4-Chlorophenyl-phenylether	0.627	0.657	0.01	4.8	50.0
Fluorene	1.278	1.352	0.01	5.8	50.0
4-Nitroaniline	0.349	0.369	0.01	5.7	50.0
4,6-Dinitro-2-methylphenol	0.167	0.175	0.01	4.8	50.0
N-Nitrosodiphenylamine (1)	0.506	0.531	0.01	4.9	20.0
4-Bromophenyl-phenylether	0.212	0.231	0.01	9.0	50.0
Hexachlorobenzene	0.273	0.299	0.01	9.5	50.0
Pentachlorophenol	0.183	0.195	0.01	6.6	20.0
Phenanthrene	0.988	1.068	0.01	8.1	50.0
Anthracene	0.986	1.101	0.01	11.7	50.0
Carbazole	0.868	0.954	0.01	9.9	50.0
Di-n-Butylphthalate	1.236	1.370	0.01	10.8	50.0
Fluoranthene	0.980	1.073	0.01	9.5	20.0
Pyrene	1.196	1.221	0.01	2.1	50.0
Butylbenzylphthalate	0.635	0.648	0.01	2.0	50.0
3,3'-Dichlorobenzidine	0.442	0.448	0.01	1.4	50.0
Benzo(a)Anthracene	1.069	1.071	0.01	0.2	50.0
Chrysene	0.941	0.965	0.01	2.6	50.0
bis(2-ethylhexyl)Phthalate	0.856	0.854	0.01	0.2	50.0
Di-n-octylphthalate	1.914	1.928	0.01	0.7	20.0
Benzo(b)fluoranthene	1.432	1.312	0.01	8.4	50.0
Benzo(k)fluoranthene	1.175	1.338	0.01	13.9	50.0
Benzo(a)pyrene	1.141	1.180	0.01	3.4	20.0
Indeno(1,2,3-cd)pyrene	1.212	1.239	0.01	2.2	50.0
Dibenz(a,h)anthracene	1.185	1.215	0.01	2.5	50.0
Benzo(g,h,i)perylene	1.100	1.156	0.01	5.1	50.0
Pyridine	0.971	1.058	0.01	9.0	50.0
N-Nitrosodimethylamine	0.637	0.687	0.01	7.8	50.0
Aniline	1.577	1.675	0.01	6.2	50.0
Benzyl Alcohol	0.909	0.928	0.01	2.1	50.0
Benzoic Acid	0.239	0.252	0.01	5.4	50.0
1-Methylnaphthalene	0.604	0.630	0.01	4.3	50.0
2,3,4,6-Tetrachlorophenol	0.368	0.393	0.01	6.8	50.0
2,3,5,6-Tetrachlorophenol	0.386	0.397	0.01	2.8	50.0
1,2-Diphenylhydrazine	0.783	0.864	0.01	10.3	50.0
Benzidine	0.378	0.412	0.01	9.0	50.0

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FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0H120157

Instrument ID: 721

Calibration Date: 08/18/00 Time: 1729

Lab File ID: D0818CCC

Init. Calib. Date(s): 08/18/00 08/18/00

Init. Calib. Times: 1334 1533

GC Column: HP5-MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Methyl methanesulfonate	0.483	0.476	0.01	1.4	50.0
2-Naphthylamine	0.728	0.862	0.01	18.4	50.0
7,12-dimethylbenz [a] anthrace	0.616	0.617	0.01	0.2	50.0
=====	=====	=====	=====	=====	=====
Nitrobenzene-d5	0.394	0.420	0.01	6.6	50.0
2-Fluorobiphenyl	1.303	1.393	0.01	6.9	50.0
Terphenyl-d14	0.962	0.968	0.01	0.6	50.0
Phenol-d5	1.610	1.699	0.01	5.5	50.0
2-Fluorophenol	1.354	1.427	0.01	5.4	50.0
2,4,6-Tribromophenol	0.159	0.170	0.01	6.9	50.0
2-Chlorophenol-d4	1.263	1.320	0.01	4.5	50.0
1,2-Dichlorobenzene-d4	0.900	0.953	0.01	5.9	50.0

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CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: 721.i
 Lab File ID: D0818CCC.D
 Analysis Type: NONE

Injection Date: 18-AUG-2000 17:29
 Lab Sample ID: sstd50
 Method File: \\Qpitpa02\D\chem\721.i\d081800.b\8270c.

8270c

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
66 Pyridine	50.0000	54.4553	8.9	50.0
67 N-Nitrosodimethylamine	50.0000	53.9580	7.9	50.0
87 Methyl methanesulfonate	50.0000	49.2963	1.4	50.0
185 2-Fluorophenol	50.0000	52.6978	5.4	50.0
184 Phenol-d5	50.0000	52.7605	5.5	50.0
1 Phenol	50.0000	53.5738	7.1	20.0
68 Aniline	50.0000	53.0837	6.2	50.0
2 bis(2-Chloroethyl)ether	50.0000	53.6194	7.2	50.0
187 2-Chlorophenol-d4	50.0000	52.2708	4.5	50.0
3 2-Chlorophenol	50.0000	52.4102	4.8	50.0
4 1,3-Dichlorobenzene	50.0000	52.9518	5.9	50.0
11 1,4-Dichlorobenzene-d4	40.0000	40.0000	0.0	50.0
5 1,4-Dichlorobenzene	50.0000	53.2845	6.6	20.0
69 Benzyl Alcohol	50.0000	51.0499	2.1	50.0
188 1,2-Dichlorobenzene-d4	50.0000	52.9132	5.8	50.0
6 1,2-Dichlorobenzene	50.0000	53.4554	6.9	50.0
7 2-Methylphenol	50.0000	52.0015	4.0	50.0
8 2,2'-oxybis(1-Chloropropane)	50.0000	54.9852	10.0	50.0
9 4-Methylphenol	50.0000	51.8873	3.8	50.0
18 N-Nitroso-d1-n-propylamine	50.0000	52.2563	4.5	50.0
12 Hexachloroethane	50.0000	53.8735	7.7	50.0
181 Nitrobenzene-d5	50.0000	53.3223	6.6	50.0
13 Nitrobenzene	50.0000	53.5037	7.0	50.0
14 Isophorone	50.0000	53.4339	6.9	50.0
15 2-Nitrophenol	50.0000	52.9258	5.9	20.0
16 2,4-Dimethylphenol	50.0000	52.6087	5.2	50.0
17 bis(2-Chloroethoxy)methane	50.0000	53.6504	7.3	50.0
71 Benzoic Acid	50.0000	52.6545	5.3	50.0
18 2,4-Dichlorophenol	50.0000	52.5022	5.0	20.0
19 1,2,4-Trichlorobenzene	50.0000	52.9058	5.8	50.0
32 Naphthalene-d8	40.0000	40.0000	0.0	50.0
20 Naphthalene	50.0000	53.0365	6.1	50.0
21 4-Chloroaniline	50.0000	53.5359	7.1	50.0
22 Hexachlorobutadiene	50.0000	52.9516	5.9	20.0
23 4-Chloro-3-Methylphenol	50.0000	53.0751	6.2	20.0
24 2-Methylnaphthalene	50.0000	52.6965	5.4	50.0
72 1-Methylnaphthalene	50.0000	52.2124	4.4	50.0
25 Hexachlorocyclopentadiene	50.0000	53.1476	6.3	50.0
26 2,4,6-Trichlorophenol	50.0000	53.3427	6.7	20.0

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CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 721.i
Lab File ID: D0818CCC.D
Analysis Type: NONE

Injection Date: 18-AUG-2000 17:29
Lab Sample ID: sstd50
Method File: \\Qpitpa02\D\chem\721.i\d081800.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
27 2,4,5-Trichlorophenol	50.0000	54.4293	8.9	50.0
182 2-Fluorobiphenyl	50.0000	53.4321	6.9	50.0
28 2-Chloronaphthalene	50.0000	55.0157	10.0	50.0
29 2-Nitroaniline	50.0000	53.5047	7.0	50.0
30 Dimethylphthalate	50.0000	53.5156	7.0	50.0
31 Acenaphthylene	50.0000	54.1825	8.4	50.0
32 2,6-Dinitrotoluene	50.0000	53.5163	7.0	50.0
33 3-Nitroaniline	50.0000	52.4504	4.9	50.0
52 Acenaphthene-d10	40.0000	40.0000	0.0	50.0
34 Acenaphthene	50.0000	53.8473	7.7	20.0
35 2,4-Dinitrophenol	50.0000	51.6361	3.3	50.0
36 4-Nitrophenol	50.0000	51.6820	3.4	50.0
37 Dibenzofuran	50.0000	52.7740	5.5	50.0
38 2,4-Dinitrotoluene	50.0000	52.5786	5.2	50.0
77 2,3,5,6-Tetrachlorophenol	50.0000	51.3682	2.7	50.0
114 2-Naphthylamine	50.0000	59.1884	18.4	50.0
76 2,3,4,6-Tetrachlorophenol	50.0000	53.3579	6.7	50.0
39 Diethylphthalate	50.0000	53.2438	6.5	50.0
41 Fluorene	50.0000	52.9076	5.8	50.0
40 4-Chlorophenyl-phenylether	50.0000	52.3547	4.7	50.0
42 4-Nitroaniline	50.0000	52.9014	5.8	50.0
43 4,6-Dinitro-2-methylphenol	50.0000	52.3433	4.7	50.0
44 N-Nitrosodiphenylamine (1)	50.0000	52.4519	4.9	20.0
78 1,2-Diphenylhydrazine	50.0000	55.1763	10.4	50.0
186 2,4,6-Tribromophenol	50.0000	53.3878	6.8	50.0
45 4-Bromophenyl-phenylether	50.0000	54.3528	8.7	50.0
46 Hexachlorobenzene	50.0000	54.7270	9.5	50.0
47 Pentachlorophenol	50.0000	53.4086	6.8	20.0
78 Phenanthrene-d10	40.0000	40.0000	0.0	50.0
48 Phenanthrene	50.0000	54.0459	8.1	50.0
49 Anthracene	50.0000	55.8208	11.6	50.0
50 Carbazole	50.0000	54.9792	10.0	50.0
51 Di-n-Butylphthalate	50.0000	55.4087	10.8	50.0
52 Fluoranthene	50.0000	54.7566	9.5	20.0
79 Benzidine	50.0000	54.5202	9.0	50.0
53 Pyrene	50.0000	51.0565	2.1	50.0
183 Terphenyl-d14	50.0000	50.3470	0.7	50.0
54 Butylbenzylphthalate	50.0000	51.0377	2.1	50.0
56 Benzo(a)Anthracene	50.0000	50.0776	0.2	50.0

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CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 721.i
Lab File ID: D0818CCC.D
Analysis Type: NONE

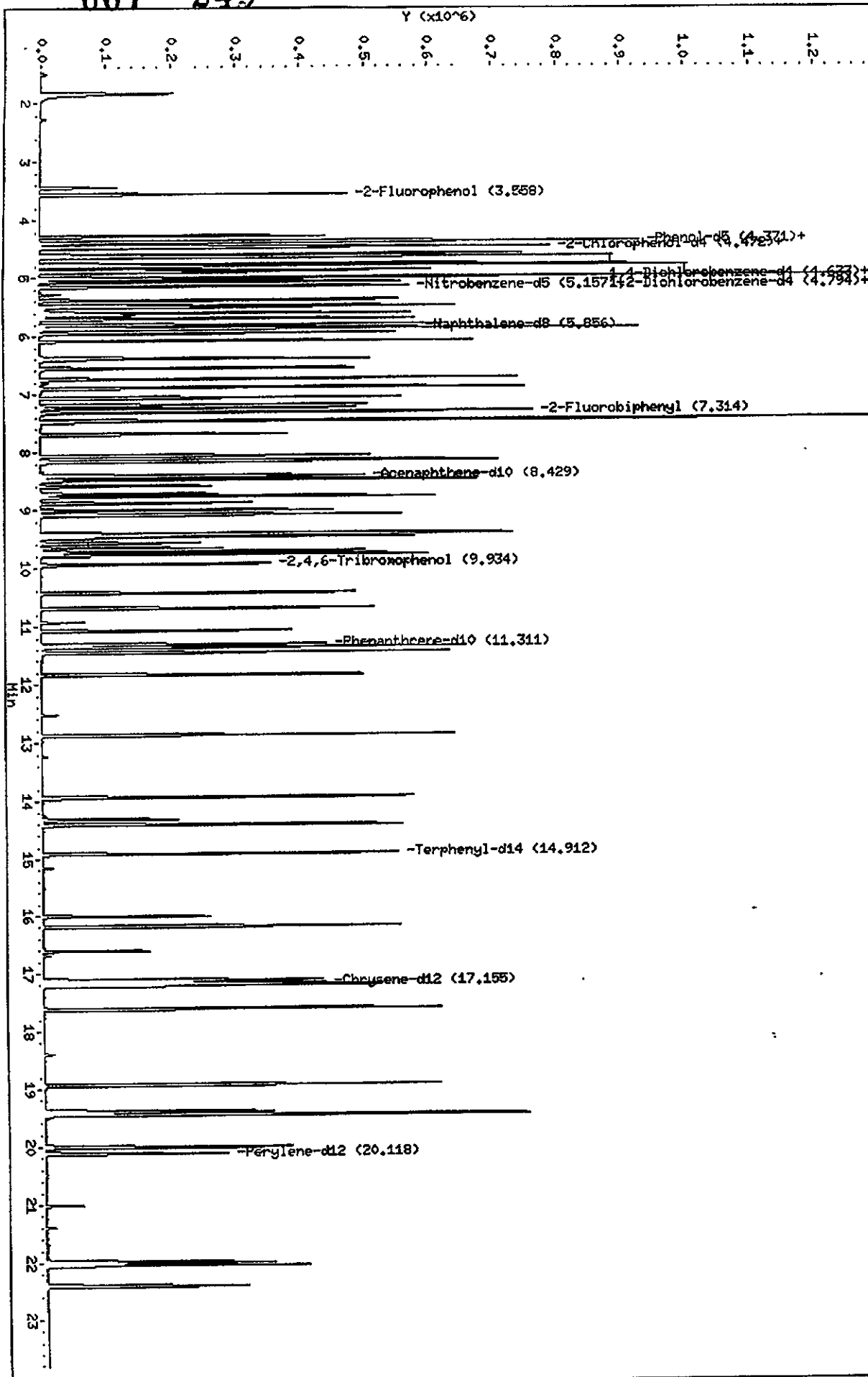
Injection Date: 18-AUG-2000 17:29
Lab Sample ID: sstd50
Method File: \\Qpitpa02\D\chem\721.i\d081800.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
90 Chrysene-d12	40.0000	40.0000	0.0	50.0
55 3,3'-Dichlorobenzidine	50.0000	50.7159	1.4	50.0
57 Chrysene	50.0000	51.2778	2.6	50.0
58 bis(2-ethylhexyl)Phthalate	50.0000	49.8898	0.2	50.0
59 Di-n-octylphthalate	50.0000	50.3668	0.7	20.0
60 Benzo(b)fluoranthene	50.0000	45.7840	8.4	50.0
61 Benzo(k)fluoranthene	50.0000	56.9644	13.9	50.0
143 7,12-dimethylbenz(a)anthracen	50.0000	50.1135	0.2	50.0
62 Benzo(a)pyrene	50.0000	51.7229	3.4	20.0
101 Perylene-d12	40.0000	40.0000	0.0	50.0
63 Indeno(1,2,3-cd)pyrene	50.0000	51.1279	2.3	50.0
64 Dibenzo(a,h)anthracene	50.0000	51.2591	2.5	50.0
65 Benzo(g,h,i)perylene	50.0000	52.5738	5.1	50.0

Data File: \\Opitpa02\chem\721.1\081800.b\081800C.D
 Date: 18-AUG-2000 17:29
 Client ID: SST1050
 Sample Info: sst050 (25UG/ML) 194-183-7 8270/olp/625
 Column phase: Hp5-MS

Instrument: 721.1
 Operator: 001B62, MLF
 Column diameter: 0.25

\\Opitpa02\chem\721.1\081800.b\081800C.D



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STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081800.b\D0818CCC.D
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Inj Date : 18-AUG-2000 17:29
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd050 (25UG/ML) 194-183-7 8270/clp/625
Misc Info : sstd50,d081800.b,8270c.m,3-root.sub,2
Comment :
Method : \\Qpitpa02\D\chem\721.i\d081800.b\8270c.m
Meth Date : 19-Aug-2000 12:15 ferguson Quant Type: ISTD
Cal Date : 18-AUG-2000 15:33 Cal File: D0818CC5.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

DLA
8-19-00

Compound Sublist: 3-root.sub

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	4.626	4.626	(1.000)	96229	40.0000	
* 2 Naphthalene-d8	136	5.855	5.855	(1.000)	325569	40.0000	
* 3 Acenaphthene-d10	164	8.428	8.428	(1.000)	172061	40.0000	
* 4 Phenanthrene-d10	188	11.310	11.310	(1.000)	301209	40.0000	
* 5 Chrysene-d12	240	17.155	17.155	(1.000)	258869	40.0000	
* 6 Perylene-d12	264	20.117	20.117	(1.000)	197368	40.0000	
10 N-Nitrosodimethylamine	74	1.845	1.845	(0.399)	82670	50.0000	53.958
9 Pyridine	79	1.818	1.818	(0.393)	127294	50.0000	54.455 (M)
16 Methyl methanesulfonate	80	3.444	3.444	(0.744)	57251	50.0000	49.296
21 Aniline	93	4.391	4.391	(0.949)	201441	50.0000	53.084
22 Phenol	94	4.377	4.377	(0.946)	213988	50.0000	53.574
23 bis(2-Chloroethyl)ether	93	4.445	4.445	(0.961)	160087	50.0000	53.619
24 2-Chlorophenol	128	4.478	4.478	(0.968)	173330	50.0000	52.410
26 1,3-Dichlorobenzene	146	4.592	4.592	(0.993)	185943	50.0000	52.952
27 1,4-Dichlorobenzene	146	4.639	4.639	(1.003)	190679	50.0000	53.284
28 1,2-Dichlorobenzene	146	4.801	4.801	(1.038)	176413	50.0000	53.455
29 Benzyl Alcohol	108	4.760	4.760	(1.029)	111670	50.0000	51.050
30 2-Methylphenol	108	4.868	4.868	(1.052)	143294	50.0000	52.001
31 2,2'-oxybis(1-Chloropropane)	45	4.895	4.895	(1.058)	210208	50.0000	54.985
32 N-Nitroso-di-n-propylamine	70	5.029	5.029	(1.087)	103791	50.0000	52.256
192 4-Methylphenol	108	4.995	4.995	(1.080)	151450	50.0000	51.887
34 Hexachloroethane	117	5.069	5.069	(1.096)	84653	50.0000	53.873
35 Nitrobenzene	77	5.157	5.157	(0.881)	168434	50.0000	53.504
41 Isophorone	82	5.378	5.378	(0.919)	283706	50.0000	53.434
42 2-Nitrophenol	139	5.466	5.466	(0.933)	93800	50.0000	52.926
43 2,4-Dimethylphenol	107	5.493	5.493	(0.938)	158823	50.0000	52.609

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Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)
=====	----	--	-----	-----	-----	-----	-----
44 bis (2-Chloroethoxy)methane	93	5.600	5.600	(0.956)	175619	50.0000	53.650
48 2,4-Dichlorophenol	162	5.701	5.701	(0.974)	133382	50.0000	52.502
49 Benzoic Acid	122	5.640	5.640	(0.963)	102570	50.0000	52.654
50 1,2,4-Trichlorobenzene	180	5.808	5.808	(0.992)	150198	50.0000	52.906
51 Naphthalene	128	5.876	5.876	(1.003)	443611	50.0000	53.036
52 4-Chloroaniline	127	5.949	5.949	(1.016)	184531	50.0000	53.536
56 Hexachlorobutadiene	225	6.084	6.084	(1.039)	92786	50.0000	52.952
59 4-Chloro-3-Methylphenol	107	6.554	6.554	(1.119)	132480	50.0000	53.075
62 2-Methylnaphthalene	142	6.735	6.735	(1.150)	280547	50.0000	52.696
63 1-Methylnaphthalene	142	6.890	6.890	(1.177)	256531	50.0000	52.212
64 Hexachlorocyclopentadiene	237	7.065	7.065	(0.838)	109342	50.0000	53.148
66 2,4,6-Trichlorophenol	196	7.185	7.185	(0.853)	95538	50.0000	53.343
67 2,4,5-Trichlorophenol	196	7.239	7.239	(0.859)	101495	50.0000	54.429
70 2-Chloronaphthalene	162	7.461	7.461	(0.885)	271641	50.0000	55.016
73 2-Nitroaniline	65	7.683	7.683	(0.912)	88335	50.0000	53.505
76 Dimethylphthalate	163	8.072	8.072	(0.958)	318585	50.0000	53.516
78 2,6-Dinitrotoluene	165	8.173	8.173	(0.970)	76949	50.0000	53.516
79 Acenaphthylene	152	8.153	8.153	(0.967)	399251	50.0000	54.182
81 3-Nitroaniline	138	8.401	8.401	(0.997)	81339	50.0000	52.450
82 Acenaphthene	153	8.489	8.489	(1.007)	244008	50.0000	53.847
83 2,4-Dinitrophenol	184	8.583	8.583	(1.018)	55666	50.0000	51.636
85 4-Nitrophenol	109	8.724	8.724	(1.035)	59454	50.0000	51.682
86 Dibenzofuran	168	8.778	8.778	(1.041)	368100	50.0000	52.774
87 2,4-Dinitrotoluene	165	8.885	8.885	(1.054)	101904	50.0000	52.579
91 2,3,5,6-Tetrachlorophenol	232	9.006	9.006	(1.069)	85335	50.0000	51.368
98 2,3,4,6-Tetrachlorophenol	232	9.093	9.093	(1.079)	84494	50.0000	53.358
92 2-Naphthylamine	143	9.073	9.073	(1.077)	185435	50.0000	59.188
93 Diethylphthalate	149	9.409	9.409	(1.116)	329912	50.0000	53.244
94 Fluorene	166	9.429	9.429	(1.119)	290828	50.0000	52.908
95 4-Chlorophenyl-phenylether	204	9.463	9.463	(1.123)	141330	50.0000	52.355
96 4-Nitroaniline	138	9.577	9.577	(1.136)	79401	50.0000	52.901
98 4,6-Dinitro-2-methylphenol	198	9.658	9.658	(0.854)	65772	50.0000	52.343
99 N-Nitrosodiphenylamine (1)	169	9.718	9.718	(0.859)	199832	50.0000	52.452
100 1,2-Diphenylhydrazine	77	9.772	9.772	(0.864)	325295	50.0000	55.176
106 4-Bromophenyl-phenylether	248	10.430	10.430	(0.922)	86872	50.0000	54.353
107 Hexachlorobenzene	284	10.692	10.692	(0.945)	112427	50.0000	54.727
111 Pentachlorophenol	266	11.075	11.075	(0.979)	73551	50.0000	53.408
115 Phenanthrene	178	11.357	11.357	(1.004)	402153	50.0000	54.046
116 Anthracene	178	11.451	11.451	(1.012)	414458	50.0000	55.821
119 Carbazole	167	11.841	11.841	(1.047)	359374	50.0000	54.979
120 Di-n-Butylphthalate	149	12.882	12.882	(1.139)	515637	50.0000	55.409
123 Fluoranthene	202	13.937	13.937	(1.232)	404029	50.0000	54.757
124 Benzidine	184	14.327	14.327	(0.835)	133407	50.0000	54.520
125 Pyrene	202	14.414	14.414	(0.840)	395093	50.0000	51.056
131 Butylbenzylphthalate	149	16.187	16.187	(0.944)	209643	50.0000	51.038
135 3,3'-Dichlorobenzidine	252	17.188	17.188	(1.002)	144974	50.0000	50.716
136 Benzo(a)Anthracene	228	17.121	17.121	(0.998)	346468	50.0000	50.078

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
*****	****	==	=====	=====	=====	=====	=====
137 Chrysene	228	17.215	17.215	(1.004)	312289	50.0000	51.278
139 bis(2-ethylhexyl)Phthalate	149	17.618	17.618	(1.027)	276243	50.0000	49.890
140 Di-n-octylphthalate	149	18.928	18.928	(0.941)	475783	50.0000	50.367
141 Benzo(b)fluoranthene	252	19.399	19.399	(0.964)	323633	50.0000	45.784
142 Benzo(k)fluoranthene	252	19.452	19.452	(0.967)	330126	50.0000	56.964
143 7,12-dimethylbenz[a]anthracen	256	19.466	19.466	(0.968)	152318	50.0000	50.113
146 Benzo(a)pyrene	252	20.010	20.010	(0.995)	291093	50.0000	51.723
149 Indeno(1,2,3-cd)pyrene	276	21.998	21.998	(1.093)	305678	50.0000	51.128
150 Dibenz(a,h)anthracene	278	22.045	22.045	(1.096)	299722	50.0000	51.259
151 Benzo(g,h,i)perylene	276	22.408	22.408	(1.114)	285316	50.0000	52.574
\$ 154 Nitrobenzene-d5	82	5.143	5.143	(0.878)	171100	50.0000	53.322
\$ 155 2-Fluorobiphenyl	172	7.313	7.313	(0.868)	299563	50.0000	53.432
\$ 156 Terphenyl-d14	244	14.911	14.911	(0.869)	313338	50.0000	50.347
\$ 157 Phenol-d5	99	4.364	4.364	(0.943)	204352	50.0000	52.760
\$ 158 2-Fluorophenol	112	3.558	3.558	(0.769)	171636	50.0000	52.698
\$ 159 2,4,6-Tribromophenol	330	9.940	9.940	(0.879)	63981	50.0000	53.388
\$ 186 2-Chlorophenol-d4	132	4.465	4.465	(0.965)	158836	50.0000	52.271
\$ 187 1,2-Dichlorobenzene-d4	152	4.787	4.787	(1.035)	114588	50.0000	52.913

QC Flag Legend

M - Compound response manually integrated.

Inj. Date and Time: 18-AUG-2000 17:29

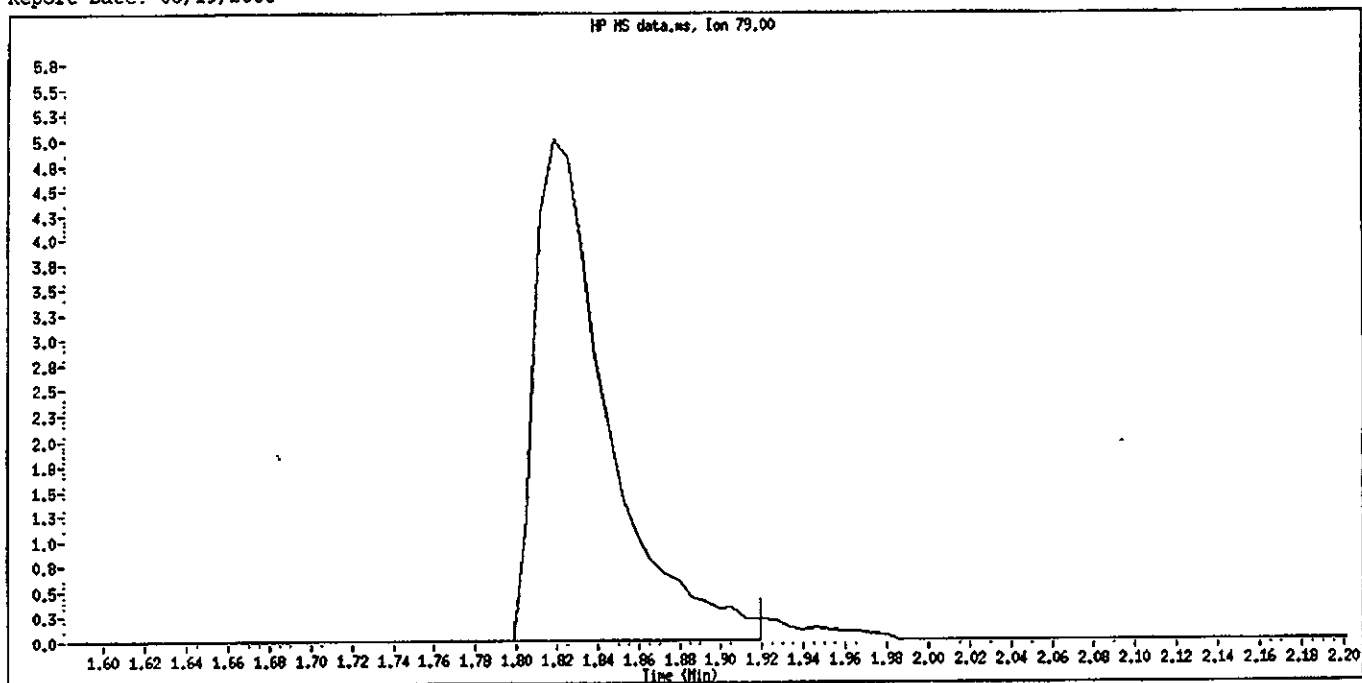
Instrument ID: 721.i

Client ID: SSTD050

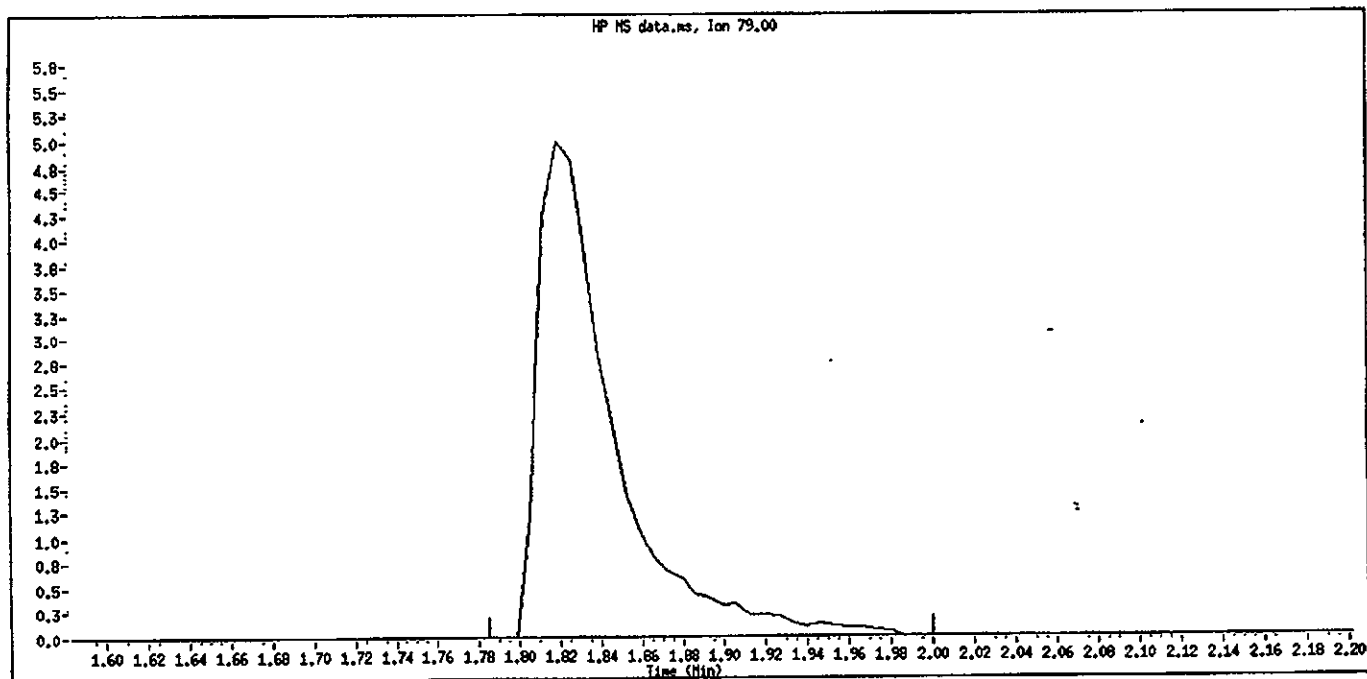
Compound Name: Pyridine

CAS #: 110-86-1

Report Date: 08/19/2000



Original Integration



Manual Integration

Manually Integrated By: FergusonD

Manual Integration Reason: Poor Chromatography

STL Pittsburgh

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 721.i Calibration Date: 18-AUG-2000
Lab File ID: D0818CCC.D Calibration Time: 14:04
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Analysis Type: SV Level:
Quant Type: ISTD Sample Type:
Operator: 001562, DLF
Method File: \\Qpitpa02\D\chem\721.i\d081800.b\8270c.m
Misc Info: sstd50,d081800.b,8270c.m,3-root.sub,2

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	103604	51802	207208	96229	-7.12
2 Naphthalene-d8	361173	180587	722346	325569	-9.86
3 Acenaphthene-d10	202171	101086	404342	172061	-14.89
4 Phenanthrene-d10	374557	187279	749114	301209	-19.58
5 Chrysene-d12	325262	162631	650524	258869	-20.41
6 Perylene-d12	244162	122081	488324	197368	-19.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.63	4.13	5.13	4.63	-0.06
2 Naphthalene-d8	5.86	5.36	6.36	5.86	-0.05
3 Acenaphthene-d10	8.43	7.93	8.93	8.43	-0.03
4 Phenanthrene-d10	11.31	10.81	11.81	11.31	-0.03
5 Chrysene-d12	17.16	16.66	17.66	17.16	-0.06
6 Perylene-d12	20.13	19.63	20.63	20.12	-0.05

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.

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FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0H120157

Instrument ID: 721

Calibration Date: 08/19/00

Time: 1444

Lab File ID: D0819CCC

Init. Calib. Date(s): 08/18/00

08/18/00

Init. Calib. Times: 1334

1533

GC Column: HP5-MS

ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.660	1.776	0.01	7.0	20.0
bis(2-Chloroethyl) ether	1.241	1.306	0.01	5.2	50.0
2-Chlorophenol	1.375	1.407	0.01	2.3	50.0
1,3-Dichlorobenzene	1.460	1.543	0.01	5.7	50.0
1,4-Dichlorobenzene	1.488	1.596	0.01	7.2	20.0
1,2-Dichlorobenzene	1.372	1.465	0.01	6.8	50.0
2-Methylphenol	1.146	1.189	0.01	3.8	50.0
2,2'-oxybis(1-Chloropropane)	1.589	1.697	0.01	6.8	50.0
4-Methylphenol	1.213	1.258	0.01	3.7	50.0
Hexachloroethane	0.653	0.688	0.01	5.4	50.0
Nitrobenzene	0.387	0.420	0.01	8.5	50.0
Isophorone	0.652	0.693	0.01	6.3	50.0
2-Nitrophenol	0.218	0.229	0.01	5.0	20.0
2,4-Dimethylphenol	0.371	0.393	0.01	5.9	50.0
bis(2-Chloroethoxy) methane	0.402	0.425	0.01	5.7	50.0
N-Nitroso-di-n-propylamine	0.826	0.857	0.05	3.8	50.0
2,4-Dichlorophenol	0.312	0.332	0.01	6.4	20.0
1,2,4-Trichlorobenzene	0.349	0.374	0.01	7.2	50.0
Naphthalene	1.027	1.089	0.01	6.0	50.0
4-Chloroaniline	0.423	0.446	0.01	5.4	50.0
Hexachlorobutadiene	0.215	0.238	0.01	10.7	20.0
4-Chloro-3-Methylphenol	0.307	0.321	0.01	4.6	20.0
2-Methylnaphthalene	0.654	0.687	0.01	5.0	50.0
Hexachlorocyclopentadiene	0.478	0.495	0.05	3.6	50.0
2,4,6-Trichlorophenol	0.416	0.438	0.01	5.3	20.0
2,4,5-Trichlorophenol	0.434	0.454	0.01	4.6	50.0
2-Chloronaphthalene	1.148	1.272	0.01	10.8	50.0
2-Nitroaniline	0.384	0.400	0.01	4.2	50.0
Dimethylphthalate	1.384	1.486	0.01	7.4	50.0
Acenaphthylene	1.713	1.837	0.01	7.2	50.0
2,6-Dinitrotoluene	0.334	0.354	0.01	6.0	50.0
3-Nitroaniline	0.360	0.362	0.01	0.6	50.0
Acenaphthene	1.054	1.120	0.01	6.3	20.0
2,4-Dinitrophenol	0.251	0.234	0.05	6.8	50.0
4-Nitrophenol	0.268	0.276	0.05	3.0	50.0
Dibenzofuran	1.622	1.752	0.01	8.0	50.0
2,4-Dinitrotoluene	0.451	0.480	0.01	6.4	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

667 249

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0H120157

Instrument ID: 721

Calibration Date: 08/19/00

Time: 1444

Lab File ID: D0819CCC

Init. Calib. Date(s): 08/18/00

08/18/00

Init. Calib. Times: 1334

1533

GC Column: HP5-MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.440	1.547	0.01	7.4	50.0
4-Chlorophenyl-phenylether	0.627	0.669	0.01	6.7	50.0
Fluorene	1.278	1.365	0.01	6.8	50.0
4-Nitroaniline	0.349	0.351	0.01	0.6	50.0
4,6-Dinitro-2-methylphenol	0.167	0.168	0.01	0.6	50.0
N-Nitrosodiphenylamine (1)	0.506	0.527	0.01	4.2	20.0
4-Bromophenyl-phenylether	0.212	0.236	0.01	11.3	50.0
Hexachlorobenzene	0.273	0.308	0.01	12.8	50.0
Pentachlorophenol	0.183	0.198	0.01	8.2	20.0
Phenanthrene	0.988	1.078	0.01	9.1	50.0
Anthracene	0.986	1.075	0.01	9.0	50.0
Carbazole	0.868	0.943	0.01	8.6	50.0
Di-n-Butylphthalate	1.236	1.341	0.01	8.5	50.0
Fluoranthene	0.980	1.072	0.01	9.4	20.0
Pyrene	1.196	1.217	0.01	1.8	50.0
Butylbenzylphthalate	0.635	0.650	0.01	2.4	50.0
3,3'-Dichlorobenzidine	0.442	0.455	0.01	2.9	50.0
Benzo (a) Anthracene	1.069	1.080	0.01	1.0	50.0
Chrysene	0.941	0.971	0.01	3.2	50.0
bis (2-ethylhexyl) Phthalate	0.856	0.849	0.01	0.8	50.0
Di-n-octylphthalate	1.914	1.840	0.01	3.9	20.0
Benzo (b) fluoranthene	1.432	1.322	0.01	7.7	50.0
Benzo (k) fluoranthene	1.175	1.330	0.01	13.2	50.0
Benzo (a) pyrene	1.141	1.174	0.01	2.9	20.0
Indeno (1,2,3-cd) pyrene	1.212	1.260	0.01	4.0	50.0
Dibenz (a,h) anthracene	1.185	1.260	0.01	6.3	50.0
Benzo (g,h,i) perylene	1.100	1.204	0.01	9.4	50.0
Pyridine	0.971	1.109	0.01	14.2	50.0
N-Nitrosodimethylamine	0.637	0.716	0.01	12.4	50.0
Aniline	1.577	1.624	0.01	3.0	50.0
Benzyl Alcohol	0.909	0.893	0.01	1.8	50.0
Benzoic Acid	0.239	0.215	0.01	10.0	50.0
1-Methylnaphthalene	0.604	0.636	0.01	5.3	50.0
2,3,4,6-Tetrachlorophenol	0.368	0.410	0.01	11.4	50.0
2,3,5,6-Tetrachlorophenol	0.386	0.411	0.01	6.5	50.0
1,2-Diphenylhydrazine	0.783	0.834	0.01	6.5	50.0
Benzidine	0.378	0.398	0.01	5.3	50.0

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 FORM 7
 SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0H120157

Instrument ID: 721

Calibration Date: 08/19/00

Time: 1444

Lab File ID: D0819CCC

Init. Calib. Date(s): 08/18/00

08/18/00

Init. Calib. Times: 1334

1533

GC Column: HP5-MS

ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Methyl methanesulfonate	0.483	0.492	0.01	1.9	50.0
2-Naphthylamine	0.728	0.849	0.01	16.6	50.0
7,12-dimethylbenz[a]anthracene	0.616	0.624	0.01	1.3	50.0
Nitrobenzene-d5	0.394	0.425	0.01	7.9	50.0
2-Fluorobiphenyl	1.303	1.390	0.01	6.7	50.0
Terphenyl-d14	0.962	0.984	0.01	2.3	50.0
Phenol-d5	1.610	1.679	0.01	4.3	50.0
2-Fluorophenol	1.354	1.400	0.01	3.4	50.0
2,4,6-Tribromophenol	0.159	0.174	0.01	9.4	50.0
2-Chlorophenol-d4	1.263	1.303	0.01	3.2	50.0
1,2-Dichlorobenzene-d4	0.900	0.957	0.01	6.3	50.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 721.i
Lab File ID: D0819CCC.D
Analysis Type: NONE

Injection Date: 19-AUG-2000 14:44
Lab Sample ID: sstd50
Method File: \\Qpitpa02\D\chem\721.i\d081900.b\8270c.

8270c

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
66 Pyridine	50.0000	57.0513	14.1	50.0
67 N-Nitrosodimethylamine	50.0000	56.2026	12.4	50.0
87 Methyl methanesulfonate	50.0000	50.9339	1.9	50.0
185 2-Fluorophenol	50.0000	51.7091	3.4	50.0
184 Phenol-d5	50.0000	52.1519	4.3	50.0
1 Phenol	50.0000	53.4900	7.0	20.0
68 Aniline	50.0000	51.4933	3.0	50.0
2 bis(2-Chloroethyl) ether	50.0000	52.6004	5.2	50.0
187 2-Chlorophenol-d4	50.0000	51.5806	3.2	50.0
3 2-Chlorophenol	50.0000	51.1885	2.4	50.0
4 1,3-Dichlorobenzene	50.0000	52.8569	5.7	50.0
11 1,4-Dichlorobenzene-d4	40.0000	40.0000	0.0	50.0
5 1,4-Dichlorobenzene	50.0000	53.6585	7.3	20.0
69 Benzyl Alcohol	50.0000	49.1226	1.8	50.0
188 1,2-Dichlorobenzene-d4	50.0000	53.1714	6.3	50.0
6 1,2-Dichlorobenzene	50.0000	53.3894	6.8	50.0
7 2-Methylphenol	50.0000	51.8877	3.8	50.0
8 2,2'-oxybis(1-Chloropropane)	50.0000	53.4052	6.8	50.0
9 4-Methylphenol	50.0000	51.8268	3.7	50.0
18 N-Nitroso-di-n-propylamine	50.0000	51.8919	3.8	50.0
12 Hexachloroethane	50.0000	52.6745	5.3	50.0
181 Nitrobenzene-d5	50.0000	53.9184	7.8	50.0
13 Nitrobenzene	50.0000	54.3330	8.7	50.0
14 Isophorone	50.0000	53.0995	6.2	50.0
15 2-Nitrophenol	50.0000	52.5661	5.1	20.0
16 2,4-Dimethylphenol	50.0000	52.9424	5.9	50.0
17 bis(2-Chloroethoxy)methane	50.0000	52.7957	5.6	50.0
71 Benzoic Acid	50.0000	44.8380	10.3	50.0
18 2,4-Dichlorophenol	50.0000	53.1891	6.4	20.0
19 1,2,4-Trichlorobenzene	50.0000	53.6052	7.2	50.0
32 Naphthalene-d8	40.0000	40.0000	0.0	50.0
20 Naphthalene	50.0000	52.9718	5.9	50.0
21 4-Chloroaniline	50.0000	52.6267	5.3	50.0
22 Hexachlorobutadiene	50.0000	55.2377	10.5	20.0
23 4-Chloro-3-Methylphenol	50.0000	52.2978	4.6	20.0
24 2-Methylnaphthalene	50.0000	52.5499	5.1	50.0
72 1-Methylnaphthalene	50.0000	52.6831	5.4	50.0
25 Hexachlorocyclopentadiene	50.0000	51.7569	3.5	50.0
26 2,4,6-Trichlorophenol	50.0000	52.5641	5.1	20.0

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CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 721.i
Lab File ID: D0819CCC.D
Analysis Type: NONE

Injection Date: 19-AUG-2000 14:44
Lab Sample ID: sstd50
Method File: \\Qpitpa02\D\chem\721.i\d081900.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
27 2,4,5-Trichlorophenol	50.0000	52.3083	4.6	50.0
182 2-Fluorobiphenyl	50.0000	53.3435	6.7	50.0
28 2-Chloronaphthalene	50.0000	55.4320	10.9	50.0
29 2-Nitroaniline	50.0000	52.0805	4.2	50.0
30 Dimethylphthalate	50.0000	53.6721	7.3	50.0
31 Acenaphthylene	50.0000	53.6322	7.3	50.0
32 2,6-Dinitrotoluene	50.0000	52.9045	5.8	50.0
33 3-Nitroaniline	50.0000	50.2687	0.5	50.0
52 Acenaphthene-d10	40.0000	40.0000	0.0	50.0
34 Acenaphthene	50.0000	53.1781	6.4	20.0
35 2,4-Dinitrophenol	50.0000	46.7240	6.6	50.0
36 4-Nitrophenol	50.0000	51.5608	3.1	50.0
37 Dibenzofuran	50.0000	54.0357	8.1	50.0
38 2,4-Dinitrotoluene	50.0000	53.2138	6.4	50.0
77 2,3,5,6-Tetrachlorophenol	50.0000	53.2334	6.5	50.0
114 2-Naphthylamine	50.0000	58.2994	16.6	50.0
76 2,3,4,6-Tetrachlorophenol	50.0000	55.7105	11.4	50.0
39 Diethylphthalate	50.0000	53.7042	7.4	50.0
41 Fluorene	50.0000	53.4147	6.8	50.0
40 4-Chlorophenyl-phenylether	50.0000	53.3245	6.6	50.0
42 4-Nitroaniline	50.0000	50.3440	0.7	50.0
43 4,6-Dinitro-2-methylphenol	50.0000	50.4731	0.9	50.0
44 N-Nitrosodiphenylamine (1)	50.0000	52.0765	4.2	20.0
78 1,2-Diphenylhydrazine	50.0000	53.2672	6.5	50.0
186 2,4,6-Tribromophenol	50.0000	54.5334	9.1	50.0
45 4-Bromophenyl-phenylether	50.0000	55.5856	11.2	50.0
46 Hexachlorobenzene	50.0000	56.5450	13.1	50.0
47 Pentachlorophenol	50.0000	54.2630	8.5	20.0
78 Phenanthrene-d10	40.0000	40.0000	0.0	50.0
48 Phenanthrene	50.0000	54.5350	9.1	50.0
49 Anthracene	50.0000	54.5185	9.0	50.0
50 Carbazole	50.0000	54.3227	8.6	50.0
51 Di-n-Butylphthalate	50.0000	54.2397	8.5	50.0
52 Fluoranthene	50.0000	54.6865	9.4	20.0
79 Benzidine	50.0000	52.6574	5.3	50.0
53 Pyrene	50.0000	50.8937	1.8	50.0
183 Terphenyl-d14	50.0000	51.1708	2.3	50.0
54 Butylbenzylphthalate	50.0000	51.2459	2.5	50.0
56 Benzo(a)Anthracene	50.0000	50.4920	1.0	50.0

Data File: \\Qpitpa02\D\chem\721.i\d081900.b/D0819CCC.D
Report Date: 08/21/2000

667 253

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 721.i
Lab File ID: D0819CCC.D
Analysis Type: NONE

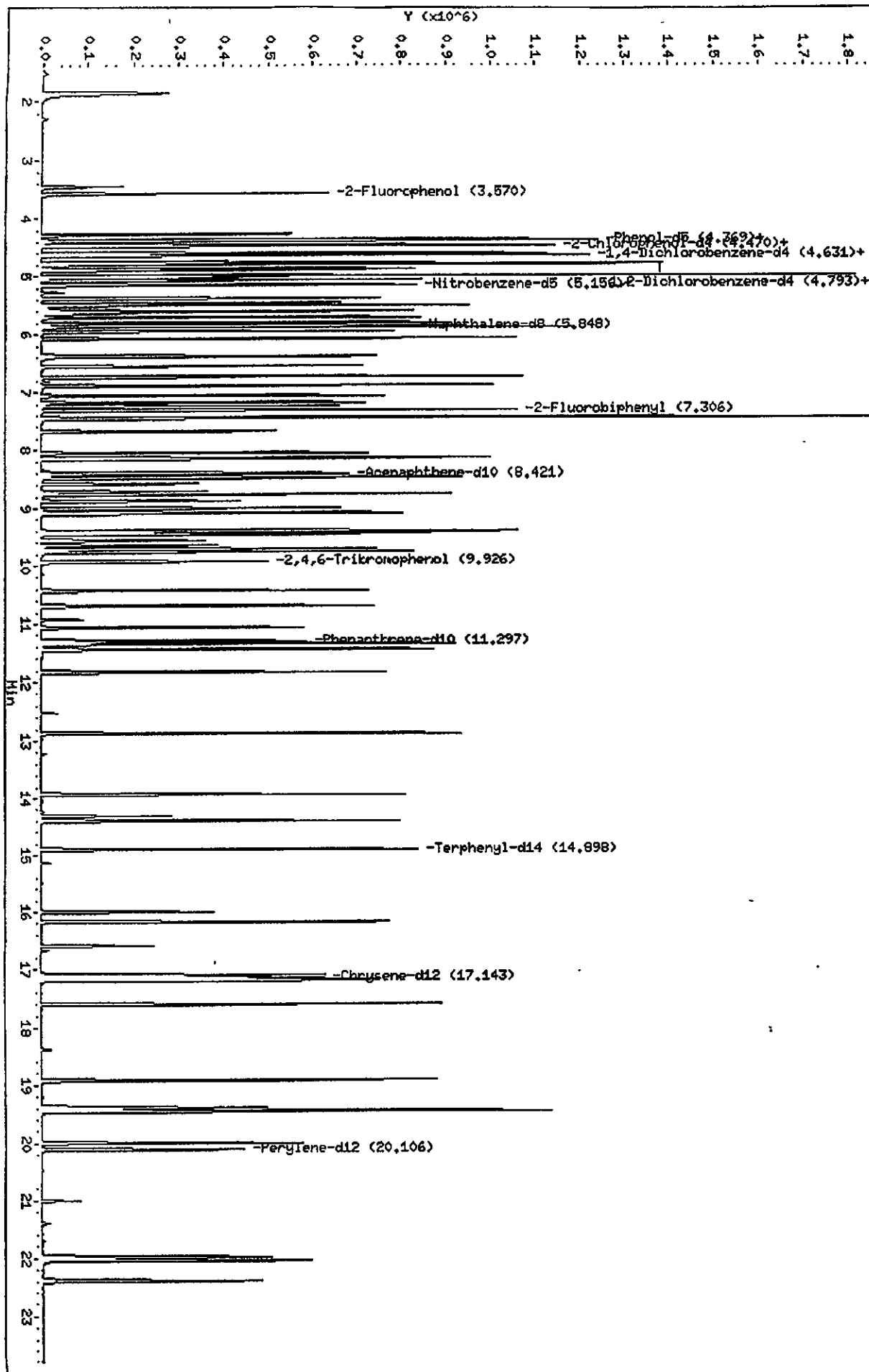
Injection Date: 19-AUG-2000 14:44
Lab Sample ID: sstd50
Method File: \\Qpitpa02\D\chem\721.i\d081900.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
90 Chrysene-d12	40.0000	40.0000	0.0	50.0
55 3,3'-Dichlorobenzidine	50.0000	51.5600	3.1	50.0
57 Chrysene	50.0000	51.5969	3.2	50.0
58 bis(2-ethylhexyl)Phthalate	50.0000	49.6437	0.7	50.0
59 Di-n-octylphthalate	50.0000	48.0620	3.9	20.0
60 Benzo(b)fluoranthene	50.0000	46.1491	7.7	50.0
61 Benzo(k)fluoranthene	50.0000	56.6196	13.2	50.0
143 7,12-dimethylbenz[a]anthracen	50.0000	50.6913	1.4	50.0
62 Benzo(a)pyrene	50.0000	51.4541	2.9	20.0
101 Perylene-d12	40.0000	40.0000	0.0	50.0
63 Indeno(1,2,3-cd)pyrene	50.0000	52.0139	4.0	50.0
64 Dibenz(a,h)anthracene	50.0000	53.1534	6.3	50.0
65 Benzo(g,h,i)perylene	50.0000	54.7389	9.5	50.0

Data File: \\q:\tpa02\chem\721.1\4081900.1\J08190CC.D
Date: 19-DEC-2000 14:44
Client ID: SST0050
Sample Info: sst0050 (25UG/ML) 194-183-7 8270/c/p/625
Column phase: Hp5-MS

Instrument: 721.1
Operator: 001562, DLF
Column diameter: 0.25

\\q:\tpa02\chem\721.1\4081900.1\J08190CC.D



667 255

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081900.b\D0819CCC.D
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Inj Date : 19-AUG-2000 14:44
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd050 (25UG/ML) 194-183-7 8270/clp/625
Misc Info : sstd50,d081900.b,8270c.m,3-root.sub,2
Comment :
Method : \\Qpitpa02\D\chem\721.i\d081900.b\8270c.m
Meth Date : 21-Aug-2000 07:28 ferguson Quant Type: ISTD
Cal Date : 18-AUG-2000 15:33 Cal File: D0818CC5.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

Compound Sublist: 3-root.sub

DL 1
8-21-00

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	4.624	4.624	(1.000)	132827	40.0000	
* 2 Naphthalene-d8	136	5.847	5.847	(1.000)	443861	40.0000	
* 3 Acenaphthene-d10	164	8.421	8.421	(1.000)	242512	40.0000	
* 4 Phenanthrene-d10	188	11.296	11.296	(1.000)	436531	40.0000	
* 5 Chrysene-d12	240	17.142	17.142	(1.000)	376616	40.0000	
* 6 Perylene-d12	264	20.105	20.105	(1.000)	297053	40.0000	
10 N-Nitrosodimethylamine	74	1.869	1.869	(0.404)	118858	50.0000	56.202
9 Pyridine	79	1.849	1.849	(0.400)	184083	50.0000	57.051 (M)
16 Methyl methanesulfonate	80	3.448	3.448	(0.746)	81650	50.0000	50.934
21 Aniline	93	4.389	4.389	(0.949)	269723	50.0000	51.493
22 Phenol	94	4.376	4.376	(0.946)	294910	50.0000	53.490
23 bis(2-Chloroethyl)ether	93	4.443	4.443	(0.961)	216772	50.0000	52.600
24 2-Chlorophenol	128	4.476	4.476	(0.968)	233674	50.0000	51.188
26 1,3-Dichlorobenzene	146	4.591	4.591	(0.993)	256201	50.0000	52.857
27 1,4-Dichlorobenzene	146	4.638	4.638	(1.003)	265046	50.0000	53.658
28 1,2-Dichlorobenzene	146	4.799	4.799	(1.038)	243206	50.0000	53.389
29 Benzyl Alcohol	108	4.759	4.759	(1.029)	148321	50.0000	49.122
30 2-Methylphenol	108	4.866	4.866	(1.052)	197359	50.0000	51.888
31 2,2'-oxybis(1-Chloropropane)	45	4.893	4.893	(1.058)	281817	50.0000	53.405
32 N-Nitroso-di-n-propylamine	70	5.027	5.027	(1.087)	142266	50.0000	51.892
192 4-Methylphenol	108	4.994	4.994	(1.080)	208806	50.0000	51.827
34 Hexachloroethane	117	5.068	5.068	(1.096)	114248	50.0000	52.674
35 Nitrobenzene	77	5.155	5.155	(0.882)	233192	50.0000	54.333
41 Isophorone	82	5.377	5.377	(0.920)	384367	50.0000	53.100
42 2-Nitrophenol	139	5.464	5.464	(0.935)	127012	50.0000	52.566
43 2,4-Dimethylphenol	107	5.491	5.491	(0.939)	217903	50.0000	52.942

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
44 bis(2-Chloroethoxy)methane	93	5.598	5.598	(0.957)	235614	50.0000	52.796
48 2,4-Dichlorophenol	162	5.699	5.699	(0.975)	184224	50.0000	53.189
49 Benzoic Acid	122	5.639	5.639	(0.964)	119079	50.0000	44.838
50 1,2,4-Trichlorobenzene	180	5.800	5.800	(0.992)	207478	50.0000	53.605
51 Naphthalene	128	5.867	5.867	(1.003)	604054	50.0000	52.972
52 4-Chloroaniline	127	5.948	5.948	(1.017)	247306	50.0000	52.627
56 Hexachlorobutadiene	225	6.076	6.076	(1.039)	131960	50.0000	55.238
59 4-Chloro-3-Methylphenol	107	6.546	6.546	(1.120)	177970	50.0000	52.298
62 2-Methylnaphthalene	142	6.734	6.734	(1.152)	381417	50.0000	52.550
63 1-Methylnaphthalene	142	6.889	6.889	(1.178)	352892	50.0000	52.683
64 Hexachlorocyclopentadiene	237	7.057	7.057	(0.838)	150080	50.0000	51.757
66 2,4,6-Trichlorophenol	196	7.177	7.177	(0.852)	132691	50.0000	52.564
67 2,4,5-Trichlorophenol	196	7.238	7.238	(0.860)	137478	50.0000	52.308
70 2-Chloronaphthalene	162	7.453	7.453	(0.885)	385763	50.0000	55.432
73 2-Nitroaniline	65	7.675	7.675	(0.911)	121190	50.0000	52.080
76 Dimethylphthalate	163	8.064	8.064	(0.958)	450344	50.0000	53.672
78 2,6-Dinitrotoluene	165	8.165	8.165	(0.970)	107216	50.0000	52.904
79 Acenaphthylene	152	8.145	8.145	(0.967)	557011	50.0000	53.632
81 3-Nitroaniline	138	8.400	8.400	(0.998)	109875	50.0000	50.269
82 Acenaphthene	153	8.474	8.474	(1.006)	339644	50.0000	53.178
83 2,4-Dinitrophenol	184	8.575	8.575	(1.018)	70995	50.0000	46.724
85 4-Nitrophenol	109	8.716	8.716	(1.035)	83601	50.0000	51.561
86 Dibenzofuran	168	8.763	8.763	(1.041)	531223	50.0000	54.036
87 2,4-Dinitrotoluene	165	8.877	8.877	(1.054)	145364	50.0000	53.214
91 2,3,5,6-Tetrachlorophenol	232	8.998	8.998	(1.069)	124643	50.0000	53.233
88 2,3,4,6-Tetrachlorophenol	232	9.092	9.092	(1.080)	124341	50.0000	55.710
92 2-Naphthylamine	143	9.066	9.066	(1.077)	257436	50.0000	58.299
93 Diethylphthalate	149	9.402	9.402	(1.116)	469016	50.0000	53.704
94 Fluorene	166	9.422	9.422	(1.119)	413838	50.0000	53.415
95 4-Chlorophenyl-phenylether	204	9.455	9.455	(1.123)	202888	50.0000	53.324
96 4-Nitroaniline	138	9.570	9.570	(1.136)	106502	50.0000	50.344
98 4,6-Dinitro-2-methylphenol	198	9.650	9.650	(0.854)	91915	50.0000	50.473
99 N-Nitrosodiphenylamine (1)	169	9.711	9.711	(0.860)	287536	50.0000	52.076
100 1,2-Diphenylhydrazine	77	9.764	9.764	(0.864)	455126	50.0000	53.267
106 4-Bromophenyl-phenylether	248	10.423	10.423	(0.923)	128756	50.0000	55.586
107 Hexachlorobenzene	284	10.685	10.685	(0.946)	168349	50.0000	56.545
111 Pentachlorophenol	266	11.061	11.061	(0.979)	108300	50.0000	54.263
115 Phenanthrene	178	11.350	11.350	(1.005)	588100	50.0000	54.535
116 Anthracene	178	11.444	11.444	(1.013)	586645	50.0000	54.518
119 Carbazole	167	11.827	11.827	(1.047)	514608	50.0000	54.323
120 Di-n-Butylphthalate	149	12.869	12.869	(1.139)	731528	50.0000	54.240
123 Fluoranthene	202	13.930	13.930	(1.233)	584795	50.0000	54.686
124 Benzidine	184	14.313	14.313	(0.835)	187456	50.0000	52.657
125 Pyrene	202	14.401	14.401	(0.840)	572968	50.0000	50.894
131 Butylbenzylphthalate	149	16.175	16.175	(0.944)	306244	50.0000	51.246
135 3,3'-Dichlorobenzidine	252	17.176	17.176	(1.002)	214426	50.0000	51.560
136 Benzo(a)Anthracene	228	17.102	17.102	(0.998)	508231	50.0000	50.492

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
=====	----	--	-----	-----	-----	-----	-----
137 Chrysene	228	17.203	17.203	(1.004)	457162	50.0000	51.597
139 bis(2-ethylhexyl) Phthalate	149	17.599	17.599	(1.027)	399910	50.0000	49.644
140 Di-n-octylphthalate	149	18.916	18.916	(0.941)	683319	50.0000	48.062
141 Benzo(b)fluoranthene	252	19.386	19.386	(0.964)	490975	50.0000	46.149
142 Benzo(k)fluoranthene	252	19.440	19.440	(0.967)	493856	50.0000	56.620
143 7,12-dimethylbenz[a]anthracen	256	19.454	19.454	(0.968)	231893	50.0000	50.691
146 Benzo(a)pyrene	252	19.998	19.998	(0.995)	435839	50.0000	51.454
149 Indeno(1,2,3-cd)pyrene	276	21.980	21.980	(1.093)	468040	50.0000	52.014
150 Dibenzo(a,h)anthracene	278	22.034	22.034	(1.096)	467774	50.0000	53.153
151 Benzo(g,h,i)perylene	276	22.397	22.397	(1.114)	447106	50.0000	54.739
\$ 154 Nitrobenzene-d5	82	5.142	5.142	(0.879)	235875	50.0000	53.918
\$ 155 2-Fluorobiphenyl	172	7.305	7.305	(0.868)	421520	50.0000	53.343
\$ 156 Terphenyl-d14	244	14.898	14.898	(0.869)	463319	50.0000	51.171
\$ 157 Phenol-d5	99	4.362	4.362	(0.943)	278818	50.0000	52.152
\$ 158 2-Fluorophenol	112	3.569	3.569	(0.772)	232468	50.0000	51.709
\$ 159 2,4,6-Tribromophenol	330	9.926	9.926	(0.879)	94715	50.0000	54.533
\$ 186 2-Chlorophenol-d4	132	4.463	4.463	(0.965)	216350	50.0000	51.581
\$ 187 1,2-Dichlorobenzene-d4	152	4.785	4.785	(1.035)	158940	50.0000	53.171

QC Flag Legend

M - Compound response manually integrated.

Data File Name: D0819CCC.D

Inj. Date and Time: 19-AUG-2000 14:44

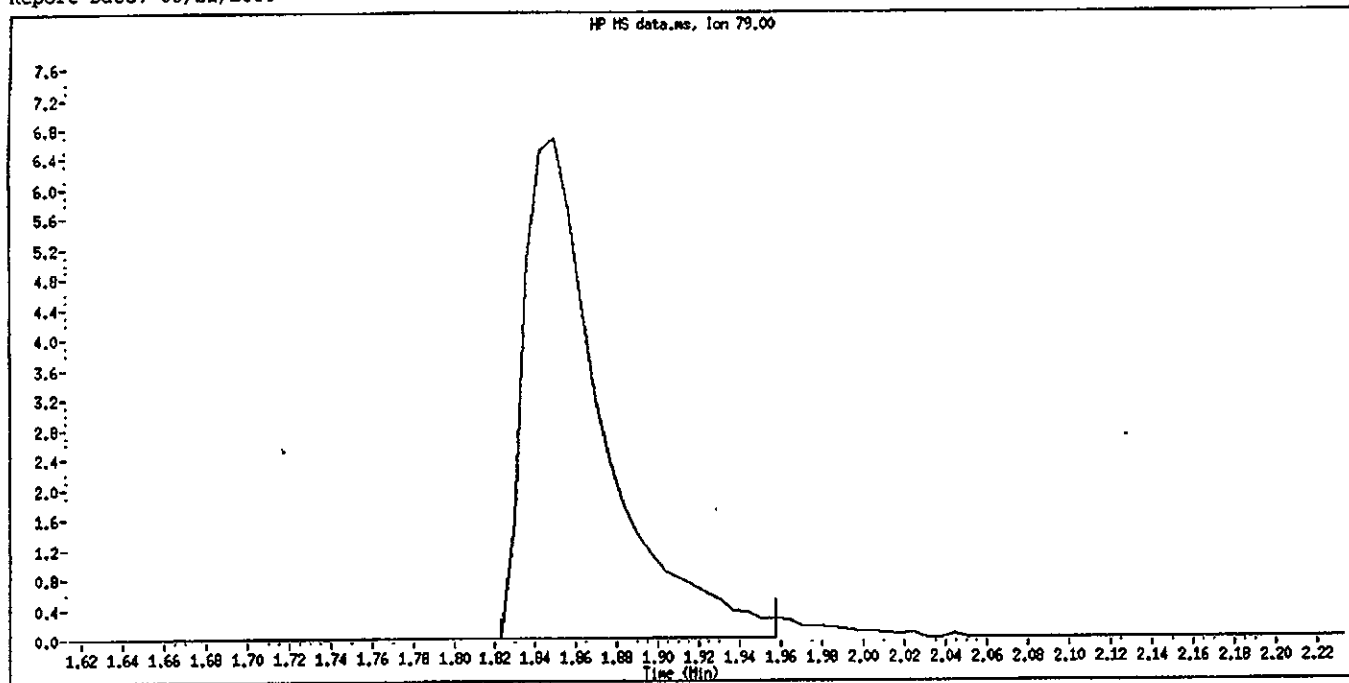
Instrument ID: 721.i

Client ID: SSTD050

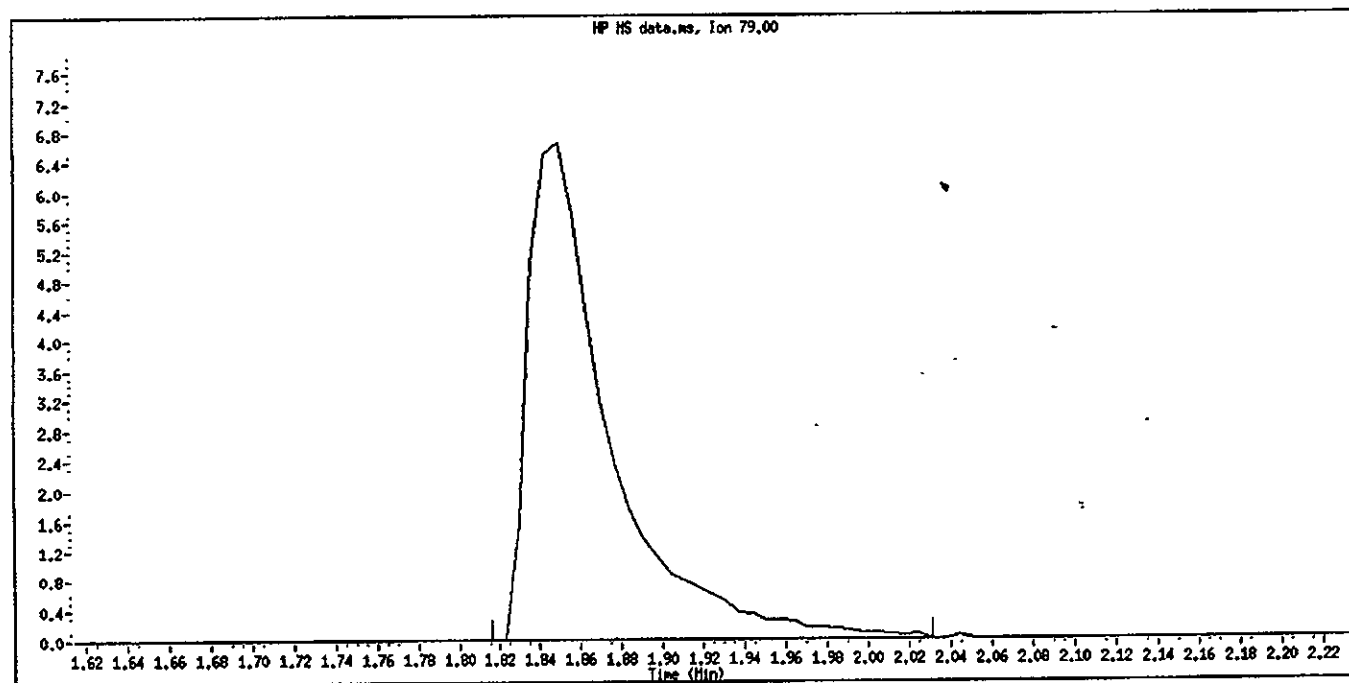
Compound Name: Pyridine

CAS #: 110-86-1

Report Date: 08/21/2000



Original Integration



Manual Integration

Manually Integrated By: FergusonD

Manual Integration Reason: Unknown

**GC/MS SEMIVOLATILE
QC DATA**

667 260

Data File: \\QPITPA02\chem\721.i\081800.b\081800.D

Page 3

Date : 18-AUG-2000 13:13

Client ID: DFTPP02

Instrument: 721.i

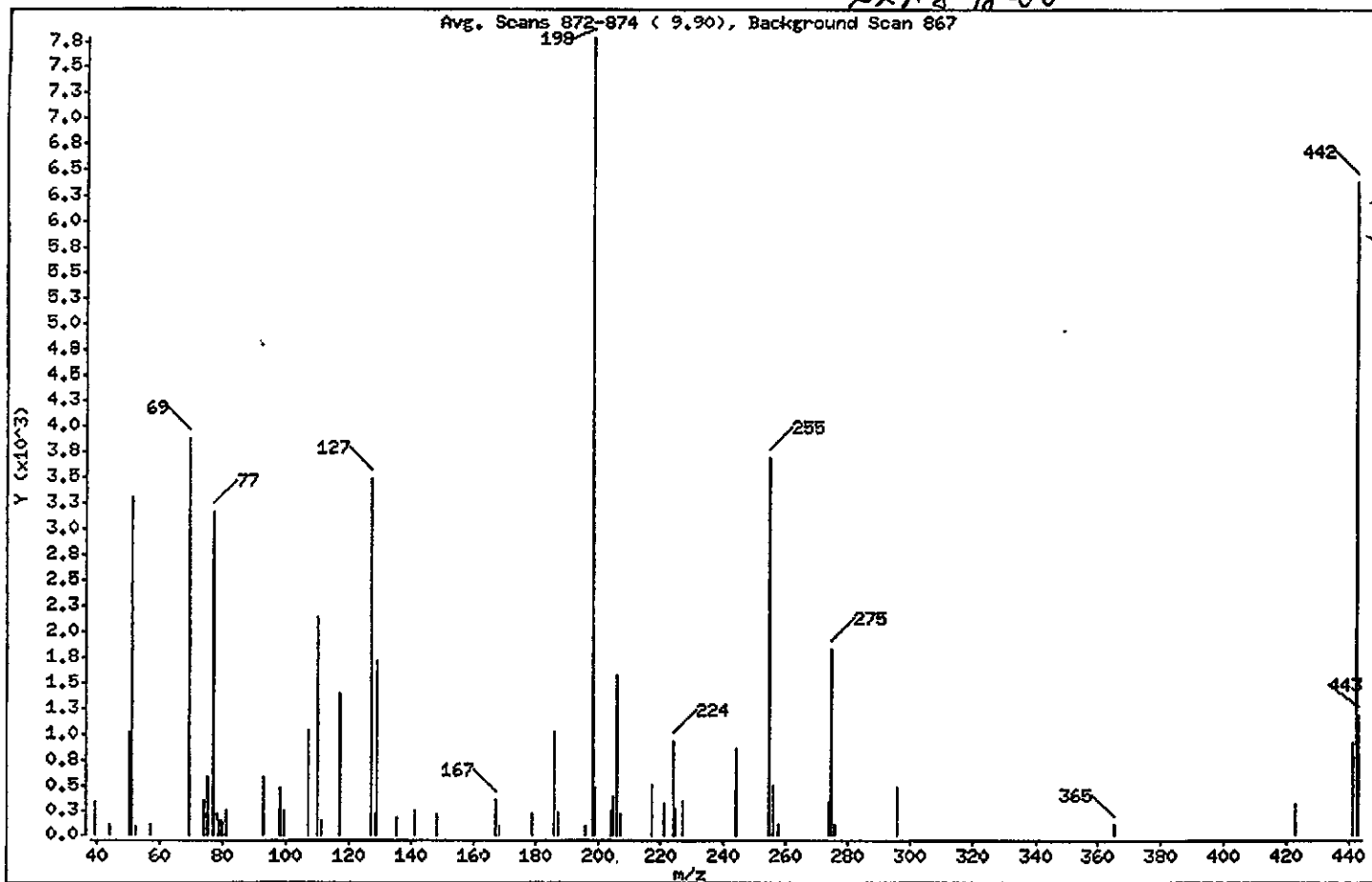
Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, ILF

Column phase:
1 dftpp

Column diameter: 0.25

DL 8-18-00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	42.43
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.97
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	44.80
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.25
275	10.00 - 30.00% of mass 198	23.53
365	Greater than 1.00% of mass 198	1.31
441	Present, but less than mass 443	11.74
442	Greater than 40.00% of mass 198	82.09
443	17.00 - 23.00% of mass 442	15.10 (18.39)

Date : 18-AUG-2000 13:13

Client ID: DFTPP02

Instrument: 721.i

Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

Data File: D0818DFT.D

Spectrum: Avg. Scans 872-874 (9.90), Background Scan 867

Location of Maximum: 198.00

Number of points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	337	98.00	482	186.00	1023	255.00	3685
44.00	115	99.00	285	187.00	227	256.00	504
50.00	1016	107.00	1038	196.00	86	258.00	101
51.00	3300	110.00	2146	198.00	7777	274.00	340
82.00	96	111.00	139	199.00	486	275.00	1830
57.00	109	117.00	1387	204.00	251	276.00	109
69.00	3886	127.00	3484	205.00	391	296.00	486
74.00	359	128.00	221	206.00	1576	365.00	102
75.00	585	129.00	1722	207.00	217	423.00	328
77.00	3172	135.00	180	217.00	499	441.00	913
78.00	210	141.00	246	221.00	323	442.00	6384
79.00	137	148.00	217	224.00	929	443.00	1174
80.00	118	167.00	349	225.00	267		
81.00	251	168.00	97	227.00	342		
93.00	583	179.00	223	244.00	851		

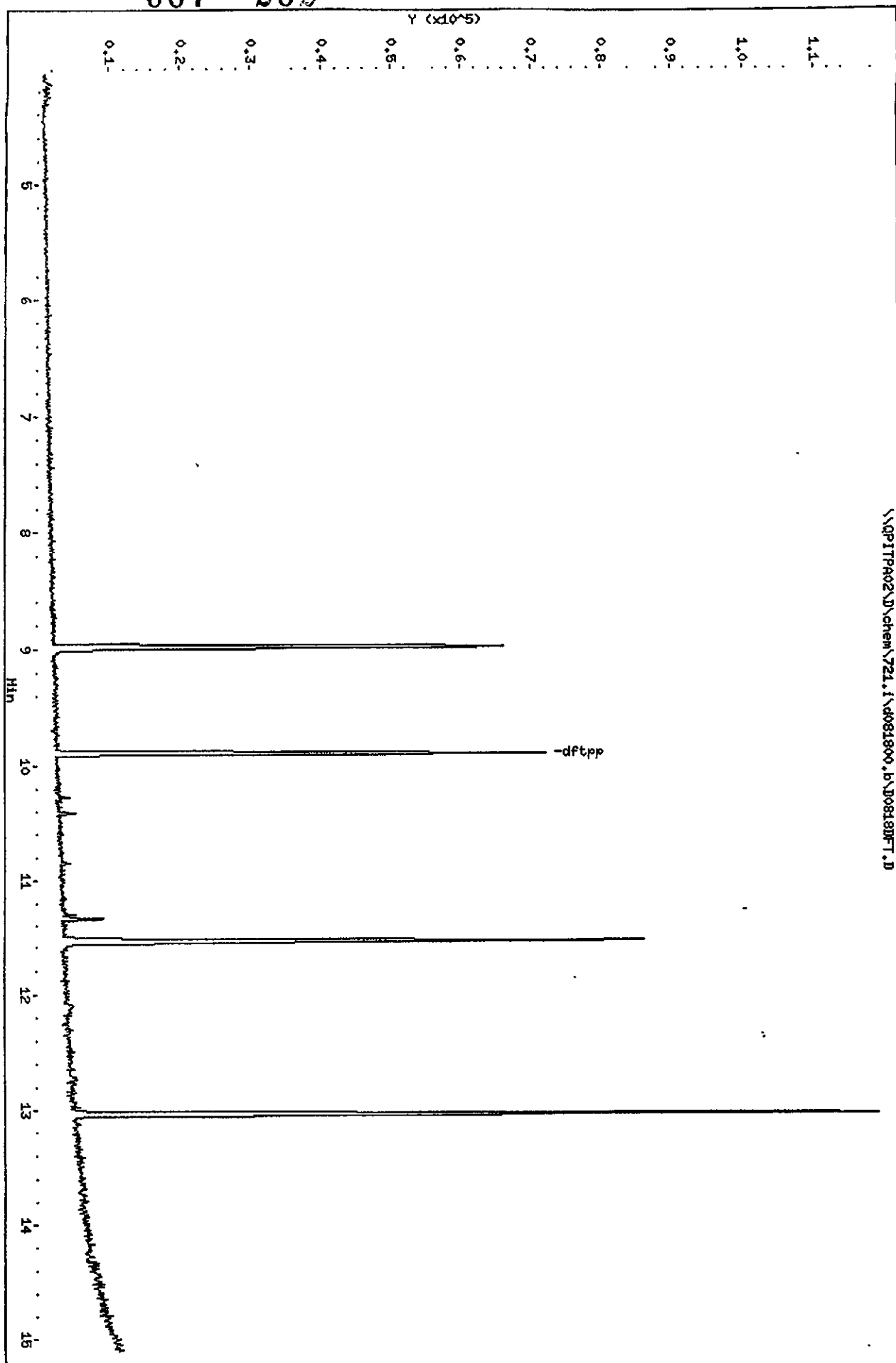
Data File: \\QPI1TPA02\N\chem\721.i\4061800.b\00818MFT.D
Date : 18-AUG-2000 13:13
Client ID: MFTPP02
Sample Info: dftpp (25ug/ml) 194-175-8

Instrument: 721.i

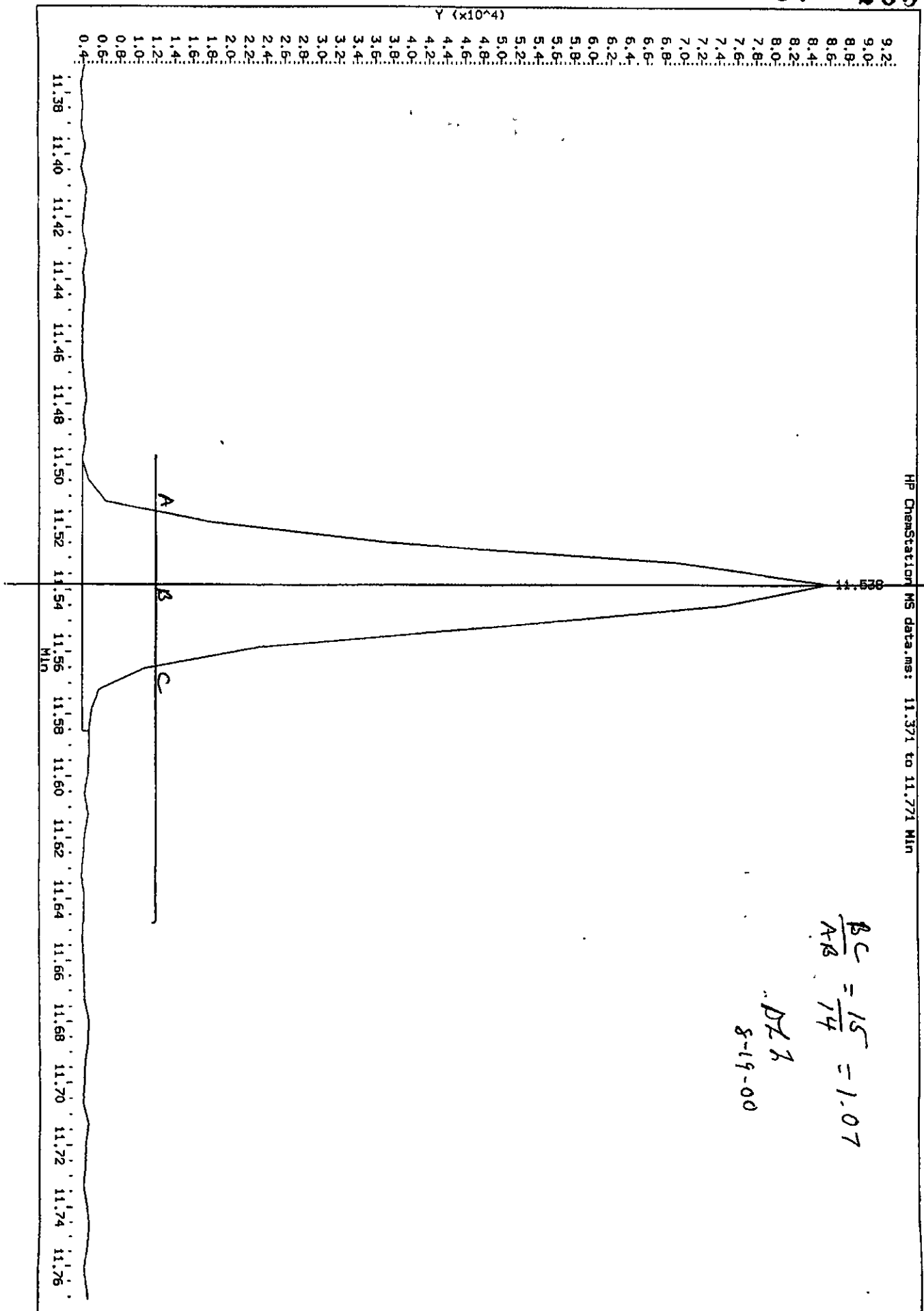
Column phases:

Operator: 001862, DLF
Column diameter: 0.25

\\QPI1TPA02\N\chem\721.i\4061800.b\00818MFT.D



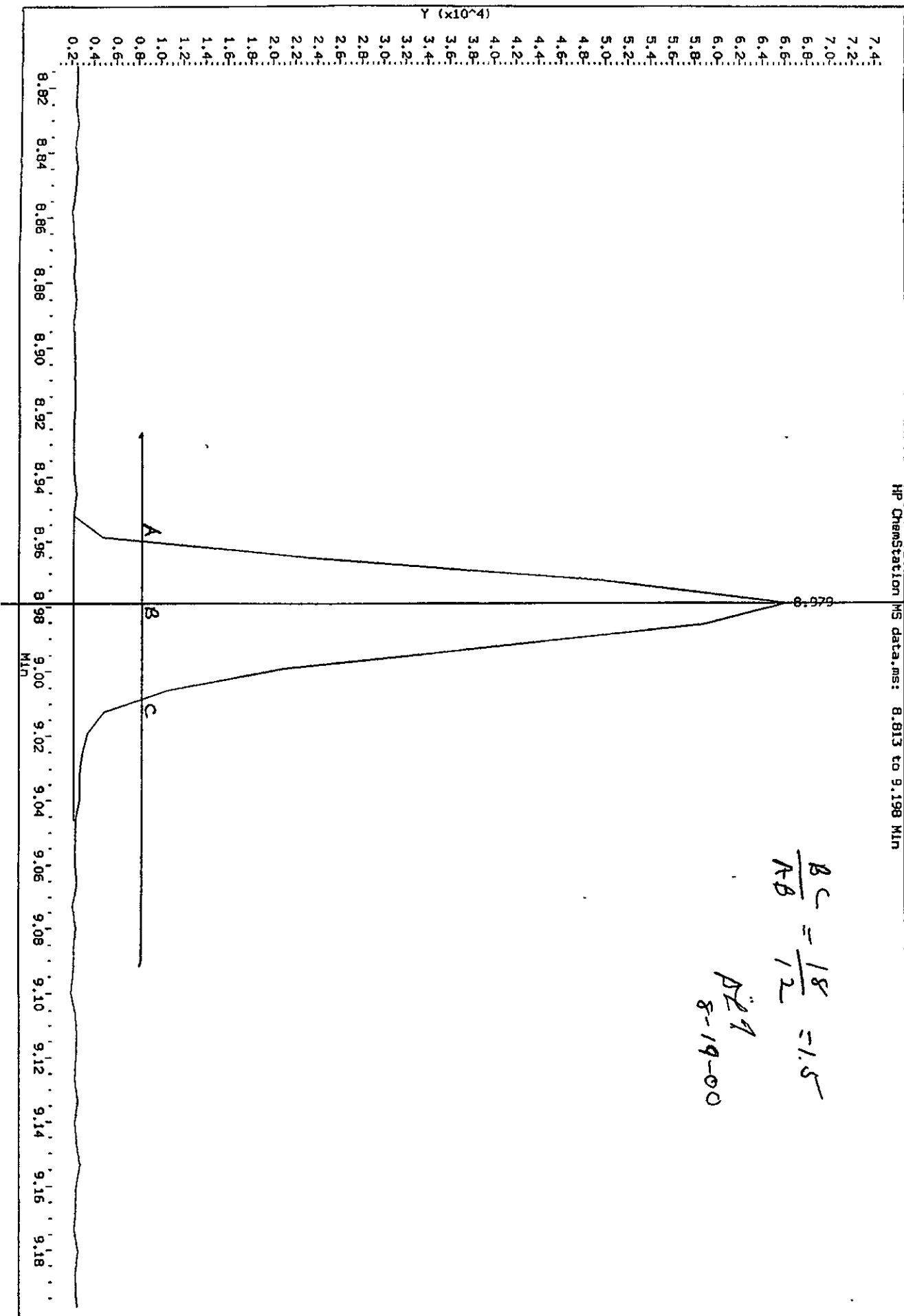
Data File: \\nqptp02\mchem\721.1\0081800.b\0081800.FT.D
 Injection Date: 18-AUG-2000 13:13
 Instrument: 721.1
 Client Sample ID: DFP02



667 264

Data File: \\Qd1tp02\\D\\chem\\721.1\\0081800.b\\D0818DFT.D
Injection Date: 18-AUG-2000 13:13
Instrument: 721.1
Client Sample ID: DFTP02

HP ChemStation MS data.ms: 8.813 to 9.198 Min



Data File: \\QPITPA02\N\chem\721.1\081800.b\0818DF3.D

Date : 18-AUG-2000 16:49

Client ID: DFTPP02

Instrument: 721.i

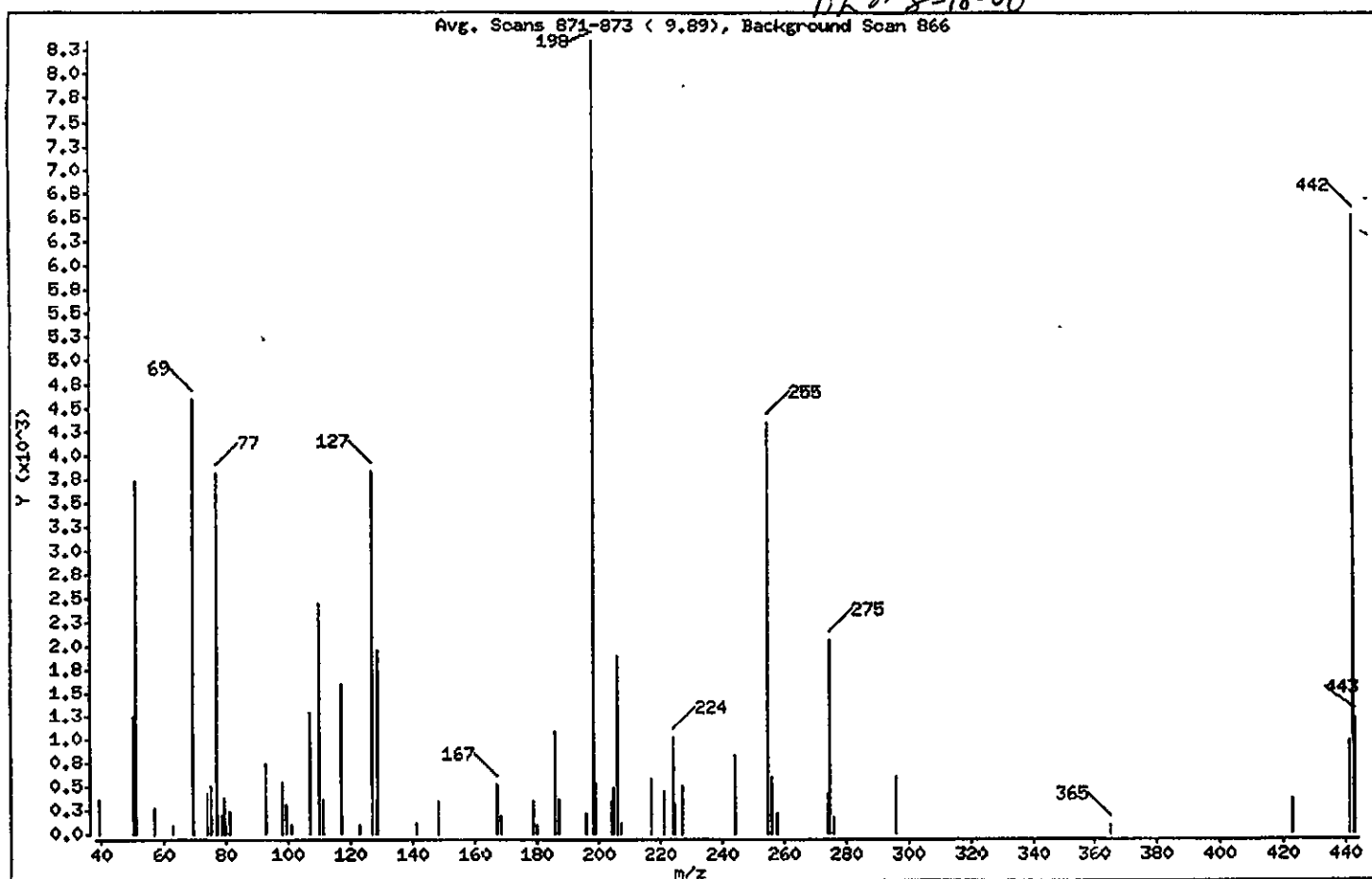
Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

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	44.87
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	54.97
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	45.71
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.54
275	10.00 - 30.00% of mass 198	24.88
365	Greater than 1.00% of mass 198	1.18
441	Present, but less than mass 443	11.62
442	Greater than 40.00% of mass 198	78.01
443	17.00 - 23.00% of mass 442	14.60 (18.72)

Date : 18-AUG-2000 16:49

Client ID: DFTPP02

Instrument: 721.i

Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

Data File: D0818DF3.D

Spectrum: Avg. Scans 871-873 (9.89), Background Scan 866

Location of Maximum: 198.00

Number of points: 58

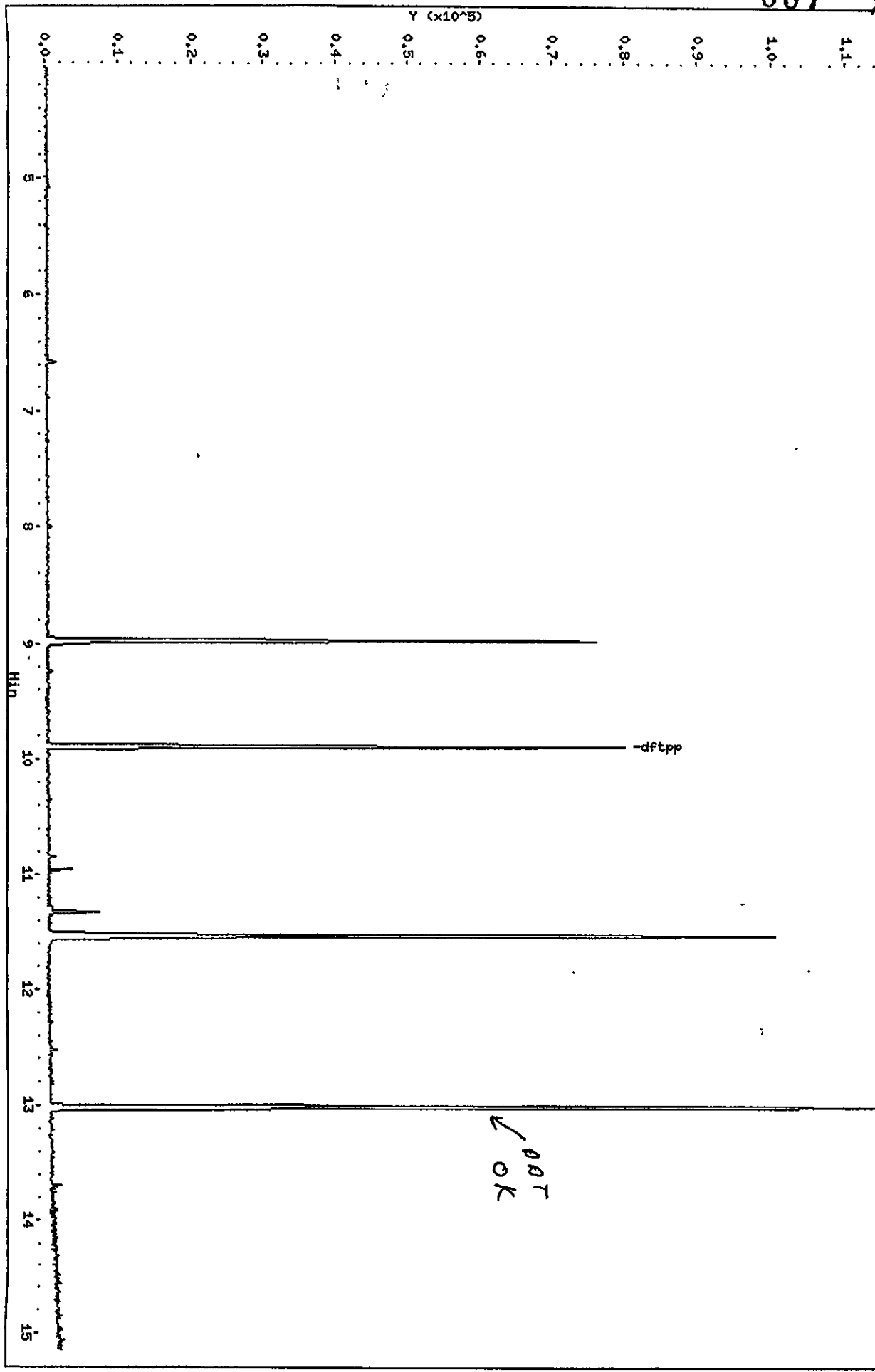
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	361	99.00	311	180.00	94	244.00	821
50.00	1247	101.00	88	186.00	1073	255.00	4340
51.00	3724	107.00	1290	187.00	361	256.00	601
57.00	274	110.00	2430	196.00	210	258.00	220
63.00	95	111.00	368	198.00	8355	274.00	413
69.00	4593	117.00	1599	199.00	546	275.00	2054
74.00	423	123.00	94	204.00	349	276.00	178
75.00	497	127.00	3819	205.00	488	296.00	587
77.00	3795	128.00	362	206.00	1885	365.00	99
78.00	200	129.00	1967	207.00	118	423.00	374
79.00	386	141.00	106	217.00	572	441.00	971
80.00	92	148.00	351	221.00	445	442.00	6518
81.00	226	167.00	515	224.00	1026	443.00	1220
93.00	727	168.00	197	225.00	308		
98.00	541	179.00	345	227.00	507		

Data File: \VPIPP02\chem\721.1\4081800.b\08180F3.D
Date : 18-AUG-2000 16:49
Client ID: DFTPP02
Sample Info: dftpp (250g/ml) 194-175-8

Instrument: 721.1
Operator: 001862, DLF
Column diameter: 0.25

Column phase:

\VPIPP02\chem\721.1\4081800.b\08180F3.D

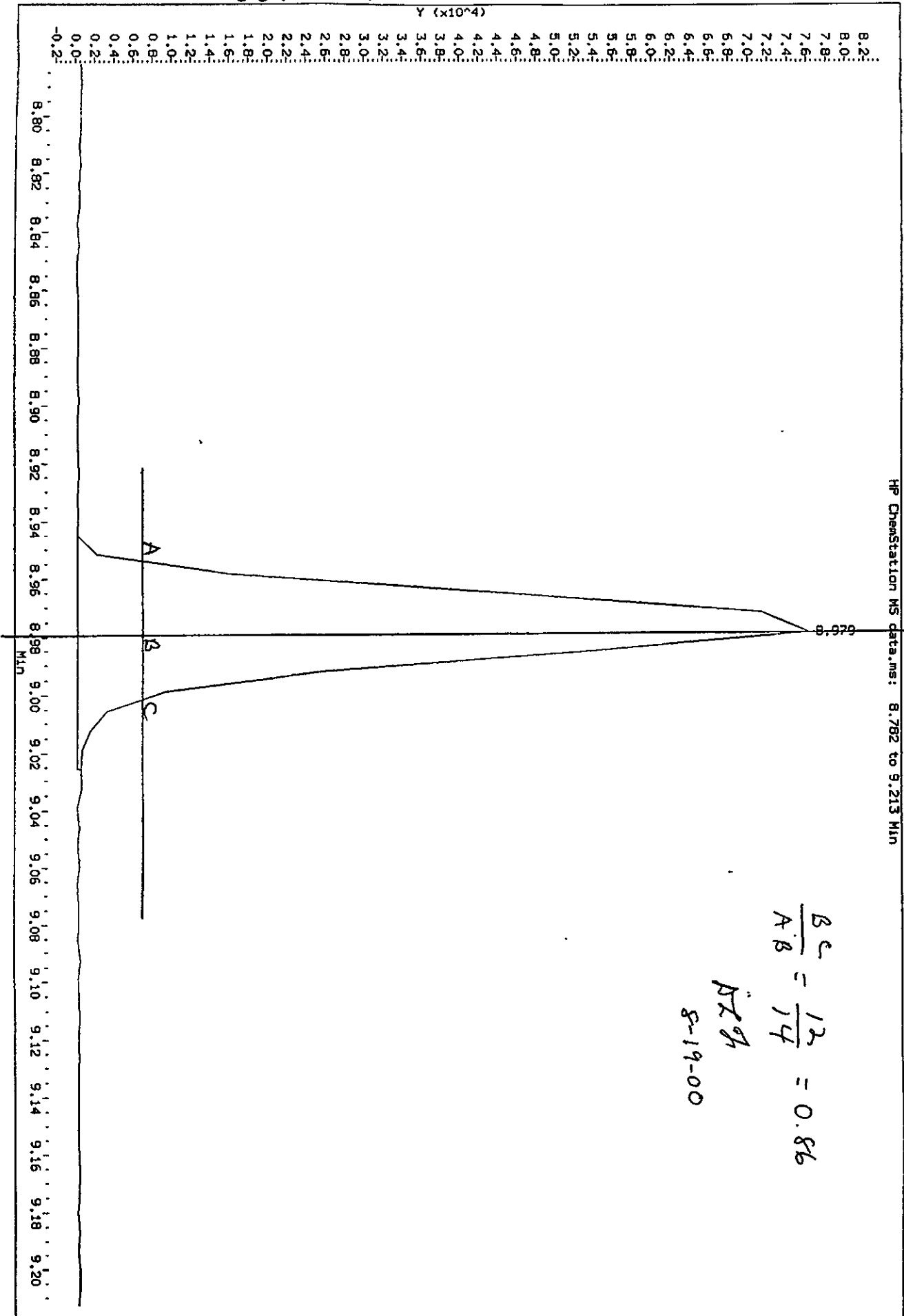


667 267

667 268

Data File: \\dptp02\chem\721_1\0081800.b\0081800F3.D
 Injection Date: 18-AUG-2000 16:49
 Instrument: 721.1
 Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 8.782 to 9.213 Min



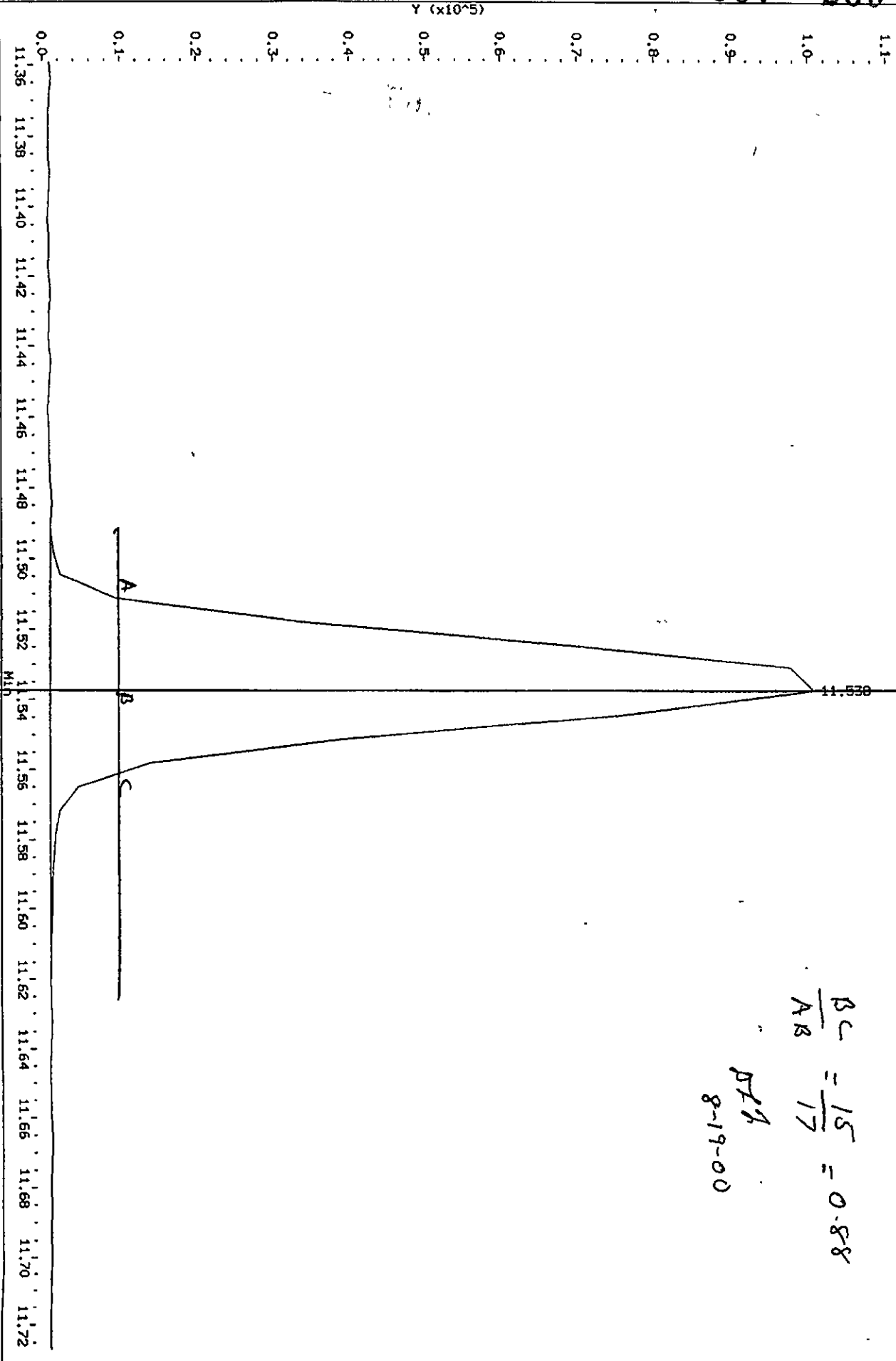
$$\frac{B}{A+B} = \frac{12}{14} = 0.86$$

8-19-00

667 269

Data File: \\qpltpa02\chem\721.1\0081800.b\0081800.F3.D
 Injection Date: 18-AUG-2000 16:49
 Instrument: 721.1
 Client Sample ID: DFTFP02

HP ChemStation MS data.ms: 11.359 to 11.727 Min



$$\frac{B_C}{A_B} = \frac{15}{17} = 0.88$$

PTA
 8-19-00

667 270

Data File: \\QPITPA02\ID\chem\721.i\d081900.b\0819DF3.D

Page 3

Date : 19-AUG-2000 14:23

Client ID: DFTPP02

Instrument: 721.i

Sample Info: dftpp <25ug/ml> 194-175-8

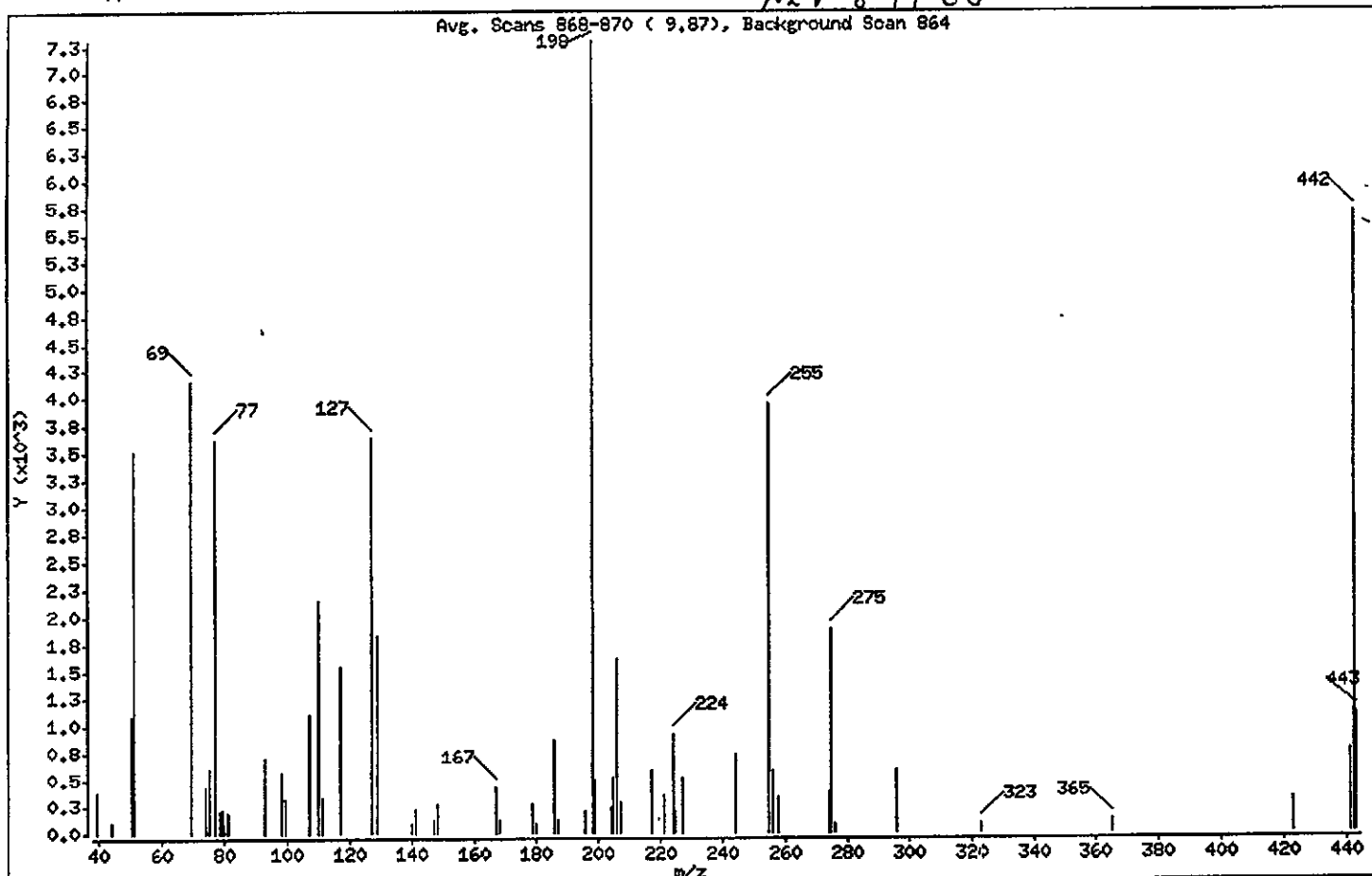
Operator: 001562, DLF

Column phase:

Column diameter: 0.25

1 dftpp

AT 8-19-00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.24
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	56.99
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.85
197	Less than 1.00% of mass 198	0.00
199	8.00 - 9.00% of mass 198	6.83
275	10.00 - 30.00% of mass 198	25.84
365	Greater than 1.00% of mass 198	1.62
441	Present, but less than mass 443	10.64
442	Greater than 40.00% of mass 198	78.17
443	17.00 - 23.00% of mass 442	15.06 (19.26)

Date : 19-AUG-2000 14:23

Client ID: DFTPP02

Instrument: 721.i

Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

Data File: D0819DF3.D

Spectrum: Avg. Scans 868-870 (9.87), Background Scan 864

Location of Maximum: 198.00

Number of points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	380	107.00	1100	187.00	111	256.00	589
44.00	104	110.00	2141	196.00	208	258.00	331
50.00	1091	111.00	343	198.00	7292	274.00	391
51.00	3818	117.00	1550	199.00	498	278.00	1884
69.00	4156	127.00	3635	204.00	240	276.00	90
74.00	434	129.00	1827	205.00	515	296.00	579
75.00	611	140.00	91	206.00	1605	323.00	91
77.00	3622	141.00	215	207.00	282	365.00	118
78.00	199	147.00	124	217.00	588	423.00	317
79.00	217	148.00	269	221.00	353	441.00	776
80.00	90	167.00	440	224.00	928	442.00	5700
81.00	182	168.00	120	225.00	209	443.00	1098
93.00	699	179.00	260	227.00	818		
98.00	565	180.00	84	244.00	744		
99.00	315	186.00	878	255.00	3938		

Data File: \\NPITPA02\chem\721.1\4081900.b\40819DF3.D
 Date: 19-01-2000 14:23
 Client ID: DFTPP02
 Sample Info: dftpp (25ug/ml) 194-175-8

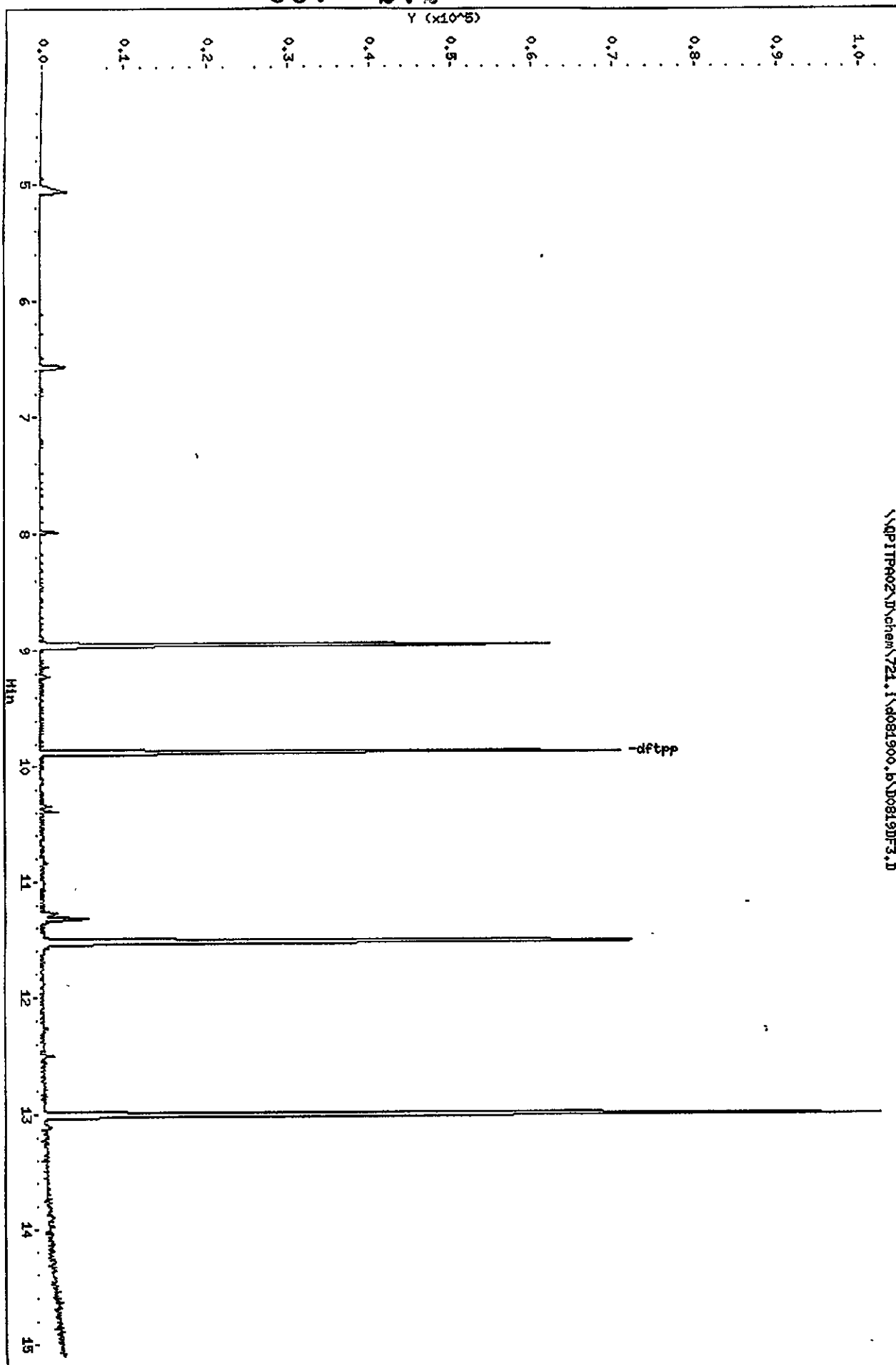
Instrument: 721.1

Operator: 001B62, DLF

Column diameter: 0.25

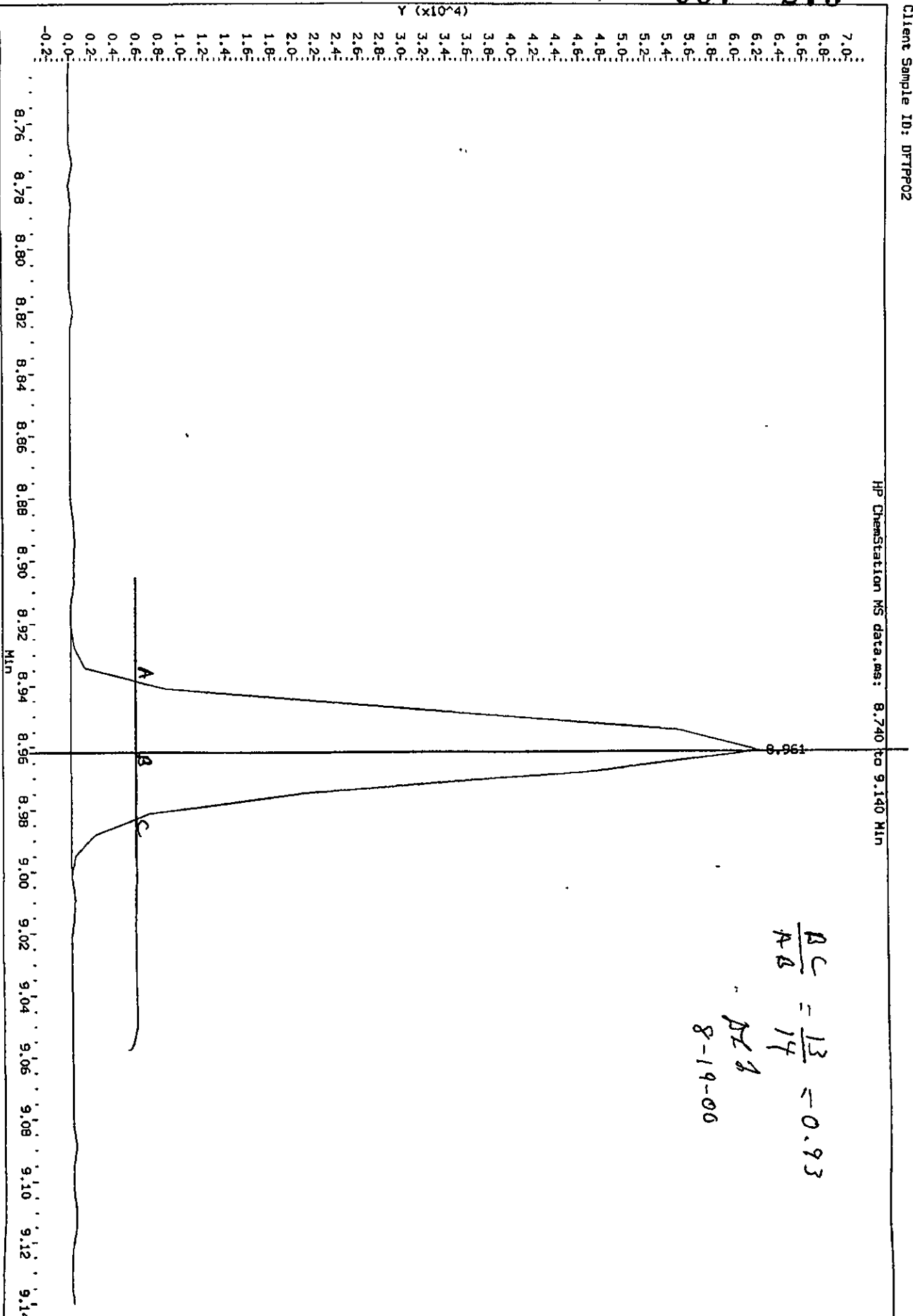
Column phase:

\\NPITPA02\chem\721.1\4081900.b\40819DF3.D



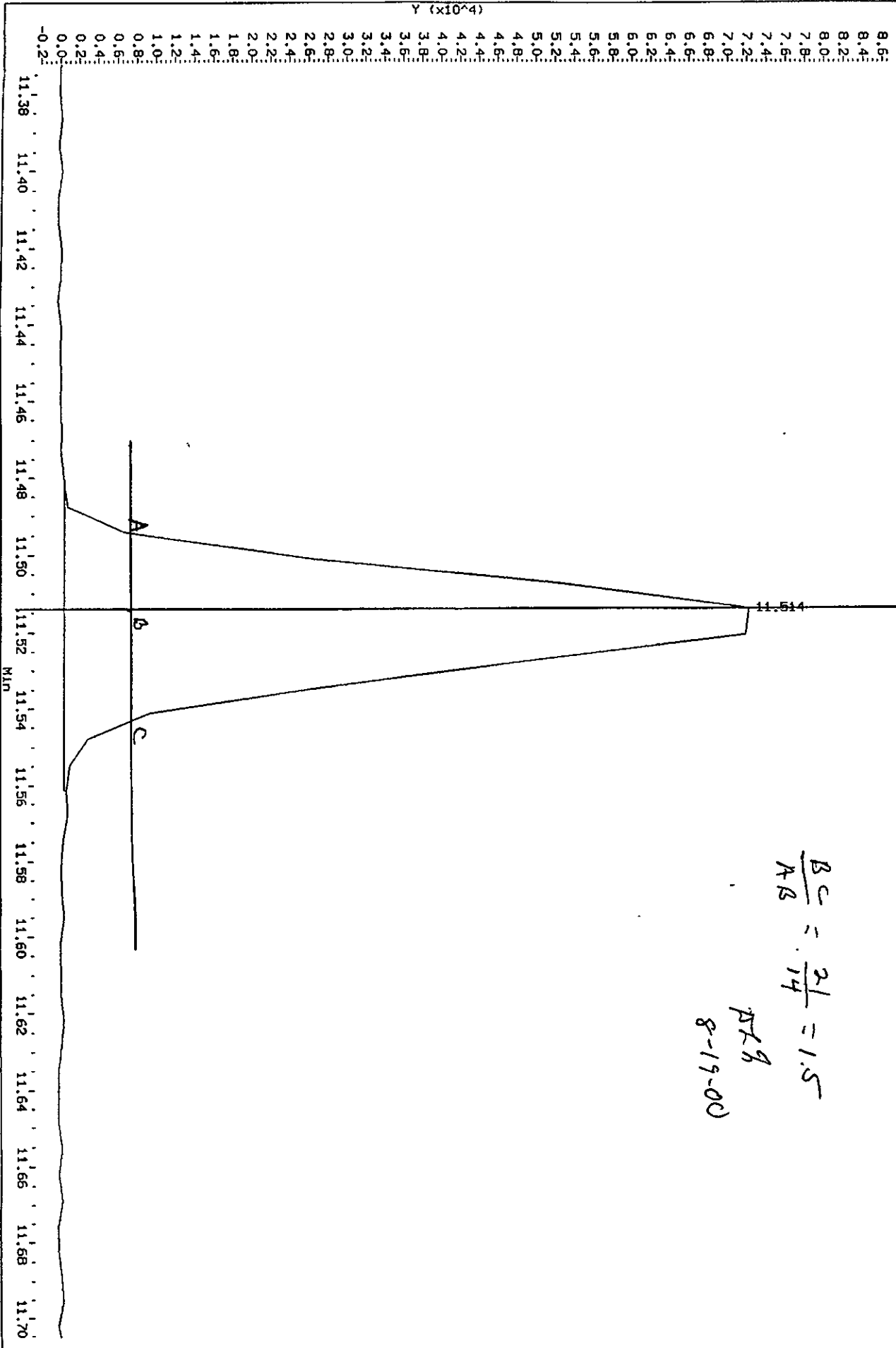
667 272

Data File: \\001rpa02\chem\721.1\0081900.b\008190F3.D
 Injection Date: 19-AUG-2000 14:23
 Instrument: 721.1
 Client Sample ID: DTFP02



Data File: \\qltpe02\\chem\\721.1\\081900.b\\081900.F3.D
 Injection Date: 19-AUG-2000 14:23
 Instrument: 721.1
 Client Sample ID: DTPP02

HP ChemStation MS data.ms: 11.372 to 11.705 Min



UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID

Lab Sample ID:COH170000 349

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/11/00

Work Order: DJ213101

Date Extracted:08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

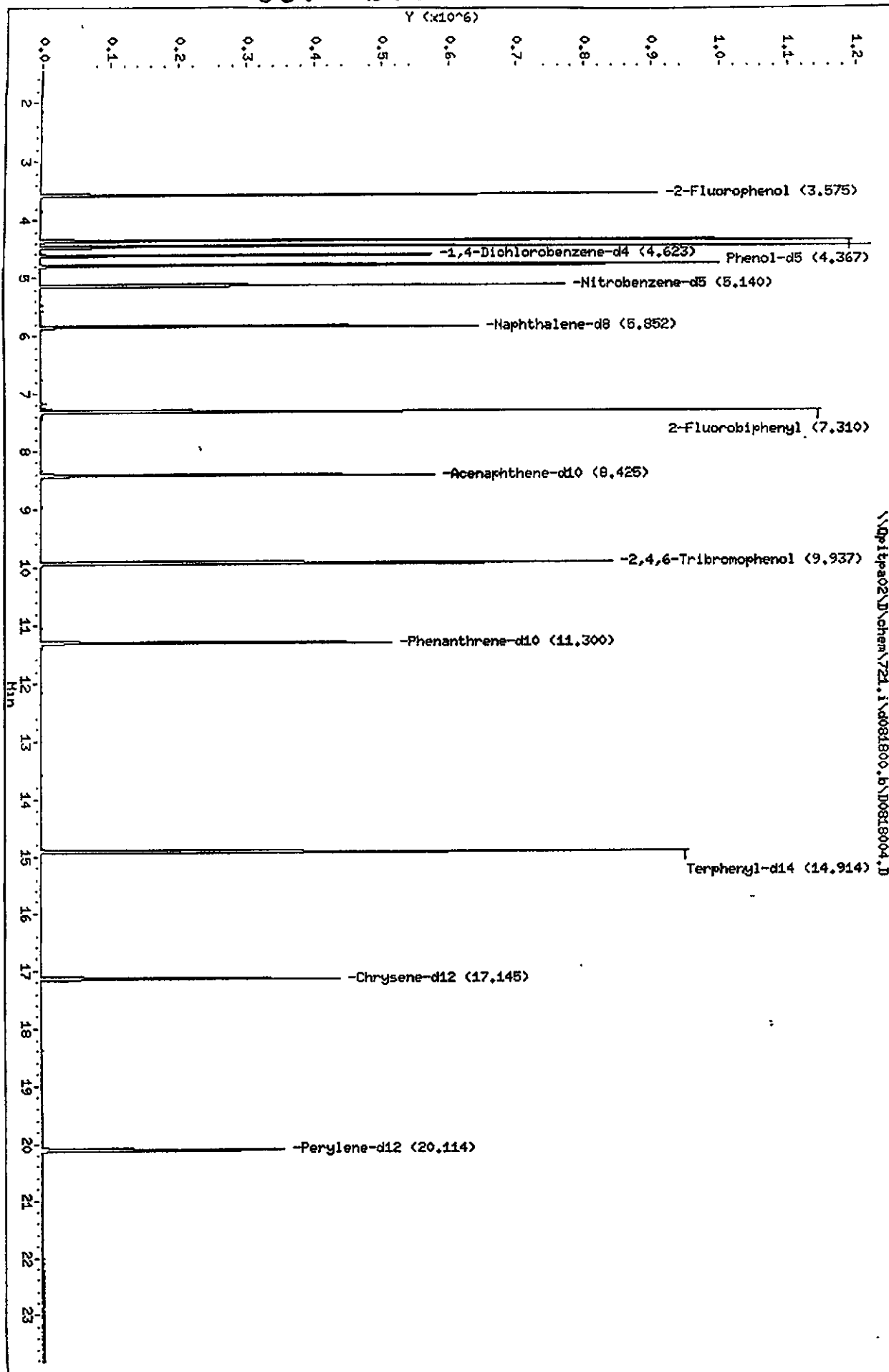
QC Batch: 0230349

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	mg/L
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\\chem\\721.1\\d081800.b\\D0818004.D
Date: 18-AUG-2000 19:32
Client ID: INTRA-LAB BLANK
Sample Info: c0h10i5--slk tcip 8/16/00 82700
Volume Injected (uL): 2.0
Column phase: HP5-MS

Instrument: 721.1
Operator: 001562, DLF
Column diameter: 0.25



667 277

STL, Pittsburgh

Semivolatatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081800.b\D0818004.D
Lab Smp Id: DJ213101 Client Smp ID: INTRA-LAB BLANK
Inj Date : 18-AUG-2000 19:32
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0h110155-sblk tclp 8/16/00 8270c
Misc Info : dj213101,d081800.b,8270c.m,tclp.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d081800.b\8270c.m
Meth Date : 19-Aug-2000 12:20 ferguson Quant Type: ISTD
Cal Date : 18-AUG-2000 15:33 Cal File: D0818CC5.D
Als bottle: 11 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

PL 9
8-21-00

Compound Sublist: tclp.sub

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

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)

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.629	4.626	(1.000)	101500	40.0000	(aQ)
* 2 Naphthalene-d8	136	5.852	5.855	(1.000)	368274	40.0000	(a)
* 3 Acenaphthene-d10	164	8.424	8.428	(1.000)	194048	40.0000	(a)
* 4 Phenanthrene-d10	188	11.300	11.310	(1.000)	341157	40.0000	(a)
* 5 Chrysene-d12	240	17.144	17.155	(1.000)	299661	40.0000	(a)
* 6 Perylene-d12	264	20.114	20.117	(1.000)	256927	40.0000	(a)
9 Pyridine	79	Compound Not Detected.					
27 1,4-Dichlorobenzene	146	Compound Not Detected.					
M 195 Cresols, total	100	Compound Not Detected.					
30 2-Methylphenol	108	Compound Not Detected.					
192 4-Methylphenol	108	Compound Not Detected.					
34 Hexachloroethane	117	Compound Not Detected.					
35 Nitrobenzene	77	Compound Not Detected.					
56 Hexachlorobutadiene	224	Compound Not Detected.					

667 273

Data File: \\Qpitpa02\D\chem\721.i\d081800.b\D0818004.D
Report Date: 19-Aug-2000 12:33

Page 2

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (mg/L)
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	265				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.139	5.143	(0.878)	244348	67.3196	0.16830(a)
\$ 155 2-Fluorobiphenyl	172	7.309	7.313	(0.868)	458034	72.4411	0.18110(a)
\$ 156 Terphenyl-d14	244	14.914	14.911	(0.870)	577936	80.2215	0.20055(a)
\$ 157 Phenol-d5	99	4.367	4.364	(0.943)	427637	104.675	0.26169(a)
\$ 158 2-Fluorophenol	112	3.574	3.558	(0.772)	326255	94.9683	0.23742(a)
\$ 159 2,4,6-Tribromophenol	330	9.936	9.940	(0.879)	164595	121.261	0.30315(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

667 279

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

Matrix: (soil/water) SOLID , , Lab Sample ID: COH170000 349

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/11/00

Work Order: DJ213102

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

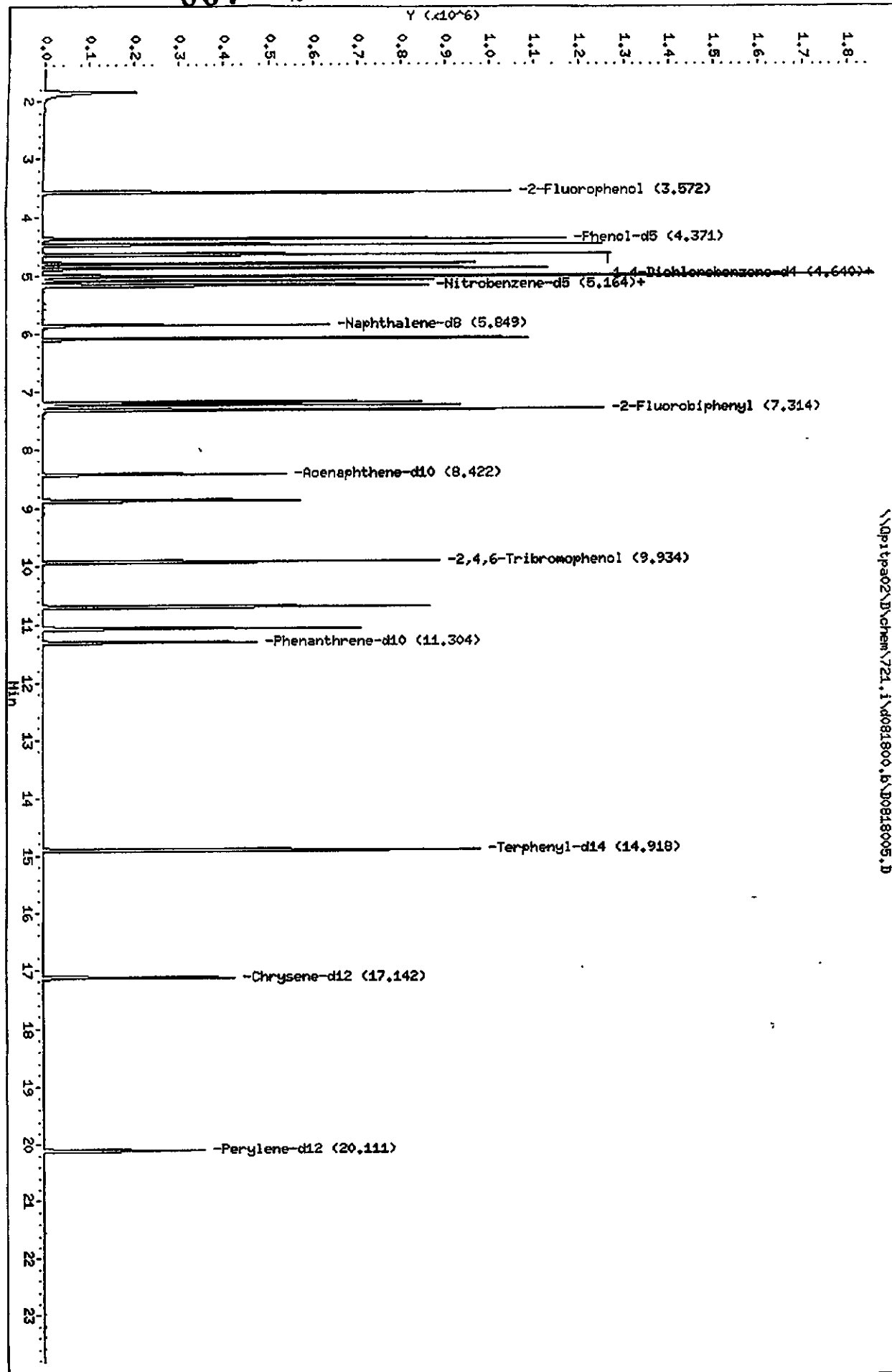
QC Batch: 0230349

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.200	
121-14-2	2,4-Dinitrotoluene	0.212	
118-74-1	Hexachlorobenzene	0.233	
87-68-3	Hexachlorobutadiene	0.209	
67-72-1	Hexachloroethane	0.200	
98-95-3	Nitrobenzene	0.206	
87-86-5	Pentachlorophenol	0.229	
110-86-1	Pyridine	0.222	
95-95-4	2,4,5-Trichlorophenol	0.222	
88-06-2	2,4,6-Trichlorophenol	0.217	
1319-77-3	Cresols (total)	0.648	

Data File: \\qptipa02\chem\721.1\4081800.1\J0818005.D
Date: 18-AUG-2000 20:02
Client ID: LCS
Sample Info: 001562-105 tcip 8/16/00 82700
Volume Injected (uL): 2.0
Column phase: HeB-HS

Instrument: 721.1
Operator: 001562, DLF
Column diameter: 0.25



STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\Qpitpa02\D\chem\721.i\d081800.b\D0818005.D
Lab Smp Id: DJ213102 Client Smp ID: LCS
Inj Date : 18-AUG-2000 20:02
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0h110155-lcs tclp 8/16/00 8270c
Misc Info : dj213102,d081800.b,8270c.m,tclp.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d081800.b\8270c.m
Meth Date : 19-Aug-2000 12:20 ferguson Quant Type: ISTD
Cal Date : 18-AUG-2000 15:33 Cal File: D0818CC5.D
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

PL1
8-21-00

Compound Sublist: tclp.sub

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

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)

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(NG)	(mg/L)
* 1 1,4-Dichlorobenzene-d4		152	4.626	4.626 (1.000)		93352	40.0000	(a)
* 2 Naphthalene-d8		136	5.849	5.855 (1.000)		324310	40.0000	(a)
* 3 Acenaphthene-d10		164	8.422	8.428 (1.000)		177159	40.0000	(a)
* 4 Phenanthrene-d10		188	11.304	11.310 (1.000)		314510	40.0000	(a)
* 5 Chrysene-d12		240	17.141	17.155 (1.000)		290890	40.0000	(a)
* 6 Perylene-d12		264	20.111	20.117 (1.000)		248509	40.0000	(a)
9 Pyridine		79	1.838	1.818 (0.397)		200925	88.6023	0.22150(a)
27 1,4-Dichlorobenzene		146	4.640	4.639 (1.003)		277606	79.9660	0.19991(a)
M 195 Cresols, total		100				720063	259.078	0.64770(a)
30 2-Methylphenol		108	4.868	4.868 (1.052)		228545	85.4946	0.21374(a)
192 4-Methylphenol		108	5.002	4.995 (1.081)		491517	173.584	0.43396(aAQ)
34 Hexachloroethane		117	5.076	5.069 (1.097)		121838	79.9270	0.19982(a)
35 Nitrobenzene		77	5.164	5.157 (0.883)		257914	82.2454	0.20561(a)
56 Hexachlorobutadiene		225	6.084	6.084 (1.040)		145658	83.4475	0.20862(a)

667 282

Data File: \\Qpitpa02\D\chem\721.i\d081800.b\D0818005.D
Report Date: 19-Aug-2000 12:33

Page 2

Compounds	QUANT SIG			CONCENTRATIONS			
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (mg/L)
=====	----	--	-----	-----	-----	-----	-----
66 2,4,6-Trichlorophenol	196	7.186	7.185	(0.853)	160294	86.9230	0.21731 (a)
67 2,4,5-Trichlorophenol	196	7.233	7.239	(0.859)	170358	88.7296	0.22182 (a)
87 2,4-Dinitrotoluene	165	8.879	8.885	(1.054)	169583	84.9804	0.21245 (a)
107 Hexachlorobenzene	284	10.692	10.692	(0.946)	199592	93.0484	0.23262 (a)
111 Pentachlorophenol	266	11.069	11.075	(0.979)	131616	91.5302	0.22882 (a)
\$ 154 Nitrobenzene-d5	82	5.143	5.143	(0.879)	254454	79.6069	0.19902 (a)
\$ 155 2-Fluorobiphenyl	172	7.313	7.313	(0.868)	488025	84.5421	0.21136 (a)
\$ 156 Terphenyl-d14	244	14.918	14.911	(0.870)	611859	87.4908	0.21873 (a)
\$ 157 Phenol-d5	99	4.371	4.364	(0.945)	469034	124.828	0.31207 (a)
\$ 158 2-Fluorophenol	112	3.571	3.558	(0.772)	369153	116.834	0.29208 (a)
\$ 159 2,4,6-Tribromophenol	330	9.933	9.940	(0.879)	179046	143.084	0.35771 (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.
- Q - Qualifier signal failed the ratio test.

4

(10)

**GC/MS SEMIVOLATILE
MISCELLANEOUS**



Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571

TCLP (Method 1311)

Project Number	004497-12	Log Number	004497-12	Client Codes	004497-12	Date	8-14-00	Checked by	Samuel Murphy	Filter Lot #	8320101W
Serial Number	084	Log Book Number	96-MT-526	pH Instrument	Accumant A125	Date	8-15-00	Client Codes	004497-12	Checked by	Samuel Murphy
Balance	0.0001g	Solution Number 1 - Log Book Number	95-0P-220-35-01	pH Instrument	Accumant A125	Date	8-15-00	Client Codes	004497-12	Checked by	Samuel Murphy

Fluid Determination				TCLP Extraction			
Sample ID	Wgt/Vol	Init. pH	Final pH	Extract Fluid #1, or #2	Conc.: HNO ₃ to Acidity (for Metals)	Sample ID	Wgt (g) Wet/Dry
DHQR2	5.00g / 96.5ml	4.24	1.74	Soln #1	5ml	1. DHQF2	100.0g
*DHQKQ4	5.00g / 96.5ml	9.74	5.80	Soln #2	5ml	2. DHQKQ4	767.8ml Glass
						3. DHQKQ4	200ml Glass
						4. DHQKQ4	200ml Glass
						5. DHQKQ4	200ml Glass
						6. DHQKQ4	200ml Glass
						7. DHQKQ4	200ml Glass
						8. DHQKQ4	200ml Glass
						9. DHQKQ4	200ml Glass
						10. DHQKQ4	200ml Glass
						11. DHQKQ4	200ml Glass
						12. DHQKQ4	200ml Glass
						13. DHQKQ4	200ml Glass

Extract(s) Received				Extract(s) Reinquished			
Extract(s)	Date	Time	Analyst	Location	Date	Time	Analyst
All above	8-15-00	14:00	Samuel Murphy	Metekolup	8-15-00	14:15	Samuel Murphy

Date/Time On	8-14-00 13:30	Date/Time Off	8-15-00	Agitation Apparatus RPMs	30 ± 2
Date	8-14-00	Date	8-15-00	pH Calibration	(4.0)
Date	8-14-00	Date	8-15-00	Final pH After Tumbling	4.80
Date	8-14-00	Date	8-15-00	Final pH After Tumbling	5.54
Date	8-14-00	Date	8-15-00	Final pH After Tumbling	5.49
Date	8-14-00	Date	8-15-00	Final pH After Tumbling	4.90
Date	8-14-00	Date	8-15-00	Final pH After Tumbling	5.49
Date	8-14-00	Date	8-15-00	Final pH After Tumbling	2.10

* = 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)

* Sample is multiphase & All fluid filtered from it will be added back in even though 5 grams of total filtered dry weight was used for fluid determination. E.F. = 4.97

TCLP (Method 1311)

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571



Project Number	James Murphy	Date	8-14-00	Files Let	8320101W
Client Codes	SC110155, CO110157, CO110158	Checked by	James Murphy	Serial Number	083
Log Book Number	04497-12	pH Instrument	Accumant N25	Log Book Number	96-MT-526
Solution Number 1 - Log Book Number	04497-12	Probe	DN 96-32030	Balance	04497

Fluid Determination				TCLP Extraction			
Sample ID	Wgt/Vol	Init. pH	Final pH	Extract Fluid #1, or #2	Conc., HNO ₃ to Acidity (for Metals)	Sample ID	Wgt (g) Wet/Dry
DH00W	5.00g / 96.5 mL	7.02	1.65	Soln #1	5mL	1. PB-TCLP 8-14-00	2000mL
DHPE3	/	7.56	1.71	/	/	2. /	/
DHPE4	/	9.10	1.69	/	/	3. DHPEW	/
DHPE6	/	9.59	1.55	/	/	4. DHPE3	100.0g
DHPE3	/	9.72	1.59	/	/	5. DHPE4	/
DHPE5	/	9.39	1.53	/	/	6. DHPE6	/
DHPE9	/	8.37	1.52	/	/	7. DHPE7	/
DHPEA	/	5.66	1.56	/	/	8. DHPE8	/
DHPE0	/	5.75	1.54	/	/	9. DHPE9	/
DHPEE	/	5.52	1.53	/	/	10. DHPEA	/
DHPE2	/	4.85	/	/	/	11. /	/
DH0XN	/	8.73	1.84	/	/	12. DHPE0	/
DH0X6	/	8.48	1.82	/	/	13. DHPEE	/

Extract(s) Received			Extract(s) Relinquished		
Date	Time	Analyst	Date	Time	Analyst
8-15-00	14:00	James Murphy	8-15-00	14:45	James Murphy
All above			17E.14E		

Date/Time On	Date/Time Off	Agitation Apparatus RPMs
8-14-00 13:00	8-15-00 9:00	30 ± 2
Date 8-14-00	pH Calibration	(4.0)
Date 8-15-00		(7.0)
Comments		

* = 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)

21. Room temp = 22°C pH E.F.2 4.97

667

285

Sequence Name: D:\HPCHEM\1\SEQUENCE\D081800.S
Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS
Operator: 001562, DLF
Data Path: D:\HPCHEM\1\DATA\d081800.b\
Pre-Seq Cmd:
Post-Seq Cmd:

667 287

NEW
COLUMN

NEW
5 PTS

CLP

8270c

Method Sections To Run On A Barcode Mismatch
(X) Full Method (X) Inject Anyway
() Reprocessing Only () Don't Inject

183-6
I.S. -194-177-5 8-14-00

Line Type	Vial	DataFile	Method	Sample Name
1 Sample	100	D0818WUP	70EARLY	wup 50
2 Sample	100	D0818WU2	70EARLY	wup 50
3 Sample	100	D0818WU3	70EARLY	wup 50
4 Sample	133	D0818DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
5 Sample	2	D0818CC1	70EARLY	sstd020 (10UG/ML) 194-188-3 8
6 Sample	3	D0818CC2	70EARLY	sstd050 (25UG/ML) 194-183-7 8
7 Sample	4	D0818CC3	70EARLY	sstd080 (40UG/ML) 194-188-5 8
8 Sample	5	D0818CC4	70EARLY	sstd120 (60UG/ML) 194-188-6 8
9 Sample	6	D0818CC5	70EARLY	sstd160 (80UG/ML) 194-188-7 8
10 Sample	7	D0818STV	70EARLY	STD VER 194-183-8
11 Sample	1	D0818DF2	DFTHP90	dftpp (25ug/ml) 194-175-8
12 Sample	1	D0818DF3	DFTHP90	dftpp (25ug/ml) 194-175-8
13 Sample	3	D0818CCC	70EARLY	sstd050 (25UG/ML) 194-183-7 8
14 Sample	8	D0818001	CLP	c0h120130-lcs h2o 8/14/00 clp
15 Sample	9	D0818002	CLP	c0h120130-lcsd h2o 8/14/00 cl
16 Sample	10	D0818003	CLP	c0h120130-003 h2o 8/14/00 clp
17 Sample	11	D0818004	70EARLY	c0h110155-sblk tclp 8/16/00 8
18 Sample	12	D0818005	70EARLY	c0h110155-lcs tclp 8/16/00 82
19 Sample	13	D0818006	70EARLY	c0h110155-001 tclp 8/16/00 82
20 Sample	14	D0818007	70EARLY	c0h110155-001ms tclp 8/16/00
21 Sample	15	D0818008	70EARLY	c0h110155-001msd tclp 8/16/00
22 Sample	16	D0818009	70EARLY	c0h110155-002 tclp 8/16/00 82
23 Sample	17	D0818010	70EARLY	c0h110155-003 tclp 8/16/00 82
24 Sample	18	D0818011	70EARLY	c0h110155-004 tclp 8/16/00 82
25 Sample	19	D0818012	70EARLY	c0h110155-005 tclp 8/16/00 82
26 Sample	20	D0818013	70EARLY	c0h110155-006 tclp 8/16/00 82
27 Sample	21	D0818014	70EARLY	c0h110155-007 tclp 8/16/00 82
28 Sample	22	D0818015	70EARLY	c0h110155-008 tclp 8/16/00 82
29 Sample	23	D0818016	70EARLY	c0h110155-009 tclp 8/16/00 82
30 Sample	24	D0818017	70EARLY	c0h110155-010 tclp 8/16/00 82
31 Sample	25	D0818018	70EARLY	c0h120157-001 tclp 8/16/00 82
32 Sample	26	D0818019	70EARLY	c0h120157-002 tclp 8/16/00 82
33 Sample	27	D0818020	70EARLY	c0h120157-003 tclp 8/16/00 82
34 Sample	28	D0818021	70EARLY	c0h110157-001 tclp 8/16/00 82
35 Sample	29	D0818022	70EARLY	blank
36 Sample	29	D0818023	70EARLY	blank

SAMPLES
MIXED UP
NRR ALL

Sequence Name: D:\HPCHEM\1\SEQUENCE\D081900.S
 Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS667 288
 Operator: 001562, DLF
 Data Path: D:\HPCHEM\1\DATA\d081900.b\
 Pre-Seq Cmd:
 Post-Seq Cmd:

AK 8-19-00

8270c

Method Sections To Run On A Barcode Mismatch
 (X) Full Method (X) Inject Anyway
 () Reprocessing Only () Don't Inject

I.S = 194-183-6

Line Type	Vial	DataFile	Method	Sample Name
1 Sample	1	D0819DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
2 Sample	1	D0819DF2	DFTHP90	dftpp (25ug/ml) 194-175-8
3 Sample ✓ 1423	1	D0819DF3	DFTHP90	dftpp (25ug/ml) 194-175-8
4 Sample ✓ 8270c	2	D0819CCC	70EARLY	sstd050 (25UG/ML) 194-183-7 8
5 Sample ✓ method	3	D0819001	70EARLY	c0h110155-sblk tclp 8/16/00 8
6 Sample PQ	4	D0819002	70EARLY	c0h110155-001 tclp 8/16/00 82
7 Sample PQ	5	D0819003	70EARLY	c0h110155-001ms tclp 8/16/00
8 Sample PQ	6	D0819004	70EARLY	c0h110155-001msd tclp 8/16/00
9 Sample PQ	7	D0819005	70EARLY	c0h110155-002 tclp 8/16/00 82
10 Sample PQ	8	D0819006	70EARLY	c0h110155-003 tclp 8/16/00 82
11 Sample PQ	9	D0819007	70EARLY	c0h110155-004 tclp 8/16/00 82
12 Sample PQ	10	D0819008	70EARLY	c0h110155-005 tclp 8/16/00 82
13 Sample PQ	11	D0819009	70EARLY	c0h110155-006 tclp 8/16/00 82
14 Sample PQ	12	D0819010	70EARLY	c0h110155-007 tclp 8/16/00 82
15 Sample PQ	13	D0819011	70EARLY	c0h110155-008 tclp 8/16/00 82
16 Sample PQ	14	D0819012	70EARLY	c0h110155-009 tclp 8/16/00 82
17 Sample PQ	15	D0819013	70EARLY	c0h110155-010 tclp 8/16/00 82
18 Sample PQ	16	D0819014	70EARLY	c0h110157-001 tclp 8/16/00 82
19 Sample PQ	17	D0819015	70EARLY ✓	C0h120157-001 tclp 8/16/00 82
20 Sample PQ	18	D0819016	70EARLY ✓	C0h120157-002 tclp 8/16/00 82
21 Sample PQ	19	D0819017	70EARLY ✓	C0h120157-003 tclp 8/16/00 82
22 Sample	20	D0819018	8270C	c0h080195-001 soil 8/10/00 82
23 Sample	21	D0819019	8270C	c0h080195-001ms soil 8/10/00
24 Sample	22	D0819020	8270C	c0h080195-001msd soil 8/10/00
25 Sample	23	D0819021	8270C	c0h080195-002 soil 8/10/00 82
26 Sample	24	D0819022	8270C	c0h080195-003 soil 8/10/00 82
27 Sample	25	D0819023	8270C	c0h080195-004 soil 8/10/00 82
28 Sample	26	D0819024	8270C	blank
29 Sample	26	D0819025	8270C	blank

30

REQUESTED BY: TROUTB

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
21B,C CLP1 16E, 17E	DHPDW-1-02	---	259326	054156	A-59-QL	COH110155	001		SOLID	0	4 1
21B,C CLP1	DHPE3-1-02	---	259327	054156	A-59-QL	COH110155	002		SOLID	0	4 1
21B,C CLP1	DHPE4-1-02	---	259328	054156	A-59-QL	COH110155	003		SOLID	0	4 1
21B,C CLP1	DHPE6-1-02	---	259329	054156	A-59-QL	COH110155	004		SOLID	0	4 1
21B,C CLP1	DHPE7-1-02	---	259330	054156	A-59-QL	COH110155	005		SOLID	0	4 1
21B,C CLP1	DHPE8-1-02	---	259331	054156	A-59-QL	COH110155	006		SOLID	0	4 1
21B,C CLP1	DHPE9-1-02	---	259332	054156	A-59-QL	COH110155	007		SOLID	0	4 1
21B,C CLP1	DHPEA-1-02	---	259333	054156	A-59-QL	COH110155	008		SOLID	0	4 1
21B,C CLP1	DHPED-1-02	---	259334	054156	A-59-QL	COH110155	009		SOLID	0	4 1
21B,C CLP1	DHPPE-1-02	---	259335	054156	A-59-QL	COH110155	010		SOLID	0	4 1
21E CLP1	DHQXN-1-03	---	259336	399411	A-59-QL	COH120157	001		SOLID	0	3 1
21E CLP1	DHQXQ-1-03	---	259337	399411	A-59-QL	COH120157	002		SOLID	0	3 1
21E CLP1	DHQXR-1-03	---	259338	399411	A-59-QL	COH120157	003		SOLID	0	3 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

K. Seely
B Trout

B Trout
K. Seely

8/16/2000 07:40
8/16/2000 14:15

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

667 290

PESTICIDE DATA

**PESTICIDE
QC SUMMARY**

667 292

SW846 8081A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0H120157

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	~~INTRA-LAB QC~~	~~98~~	~~91~~	~~00~~
02	DF/S1/0224/GRAB/005	100	82	00
03	DF/S1/0224/SDC/024	97	87	00
04	DF/S1/0224/SDC/025	94	84	00
05	METHOD BLK. DJ0KG101	101	95	00
06	LCS DJ0KG102	96	84	00
07	~~LAB MS/MSD D~~	~~94~~	~~85~~	~~00~~
08	~~LAB MS/MSD S~~	~~96~~	~~84~~	~~00~~

*lm
8/25/00*SURROGATES

SRG01 = Decachlorobiphenyl

SRG02 = Tetrachloro-m-xylene

QC LIMITS

(10-147)

(39-130)

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

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0H160000

WO #: DJ0KG102

BATCH: 0229484

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Lindane	0.00250	0.00159	64	49 - 137	
Heptachlor	0.00250	0.00216	86	57 - 124	
Heptachlor epoxide	0.00250	0.00221	88	53 - 135	
Endrin	0.00250	0.00196	79	46 - 137	
Methoxychlor	0.00250	0.00234	93	12 - 154	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

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 #: COH110155

WO #: DHPE310M

BATCH: 0229484

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Lindane	0.00250	ND	0.00160	64	30 - 148	
Heptachlor	0.00250	ND	0.00217	87	25 - 135	
Heptachlor epoxide	0.00250	ND	0.00221	88	38 - 138	
Endrin	0.00250	ND	0.00209	84	28 - 148	
Methoxychlor	0.00250	ND	0.00243	97	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

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

667 295

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C0H110155

WO #: DHPE310N

BATCH: 0229484

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS		QUAL
					RPD	REC	
Lindane	0.00250	0.00163	65	1.9	22	30 - 148	
Heptachlor	0.00250	0.00219	87	0.64	32	25 - 135	
Heptachlor epoxide	0.00250	0.00222	89	0.31	31	38 - 138	
Endrin	0.00250	0.00224	90	6.7	40	28 - 148	
Methoxychlor	0.00250	0.00245	98	0.73	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

DJ0KG101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

667 296

Lab File ID: D-B5457.d

Lot Number: C0H120157

Matrix: SOLID

Extraction Method: 1311/3510

Date Extracted: 08/16/00

Date Analyzed(1): 08/18/00

Date Analyzed(2): N/A

Time Analyzed(1): 07:08

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 ~~LAB MS/MSD~~	~~DHPE310M S~~	~~08/18/00~~	~~N/A~~
02 ~~LAB MS/MSD~~	~~DHPE310N D~~	~~08/18/00~~	~~N/A~~
03 ~~INTRA-LAB QC~~	~~DHPE3103~~	~~08/18/00~~	~~N/A~~
04 DF/S1/0224/GRAB/005	DHQXN104	08/18/00	N/A
05 DF/S1/0224/SDC/024	DHQQQ104	08/18/00	N/A
06 DF/S1/0224/SDC/025	DHQXR104	08/18/00	N/A
07 CHECK SAMPLE	DJ0KG102 C	08/18/00	N/A
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

um 8/25/00

COMMENTS:

FORM IV

**PESTICIDE
SAMPLE DATA**

667 298

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/12/00

Work Order: DHQXN104

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229484

Client Sample Id: DF/S1/0224/GRAB/005

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\5080-G.b\D-B5462.d
Lab Smp Id: DHQXN104 Client Smp ID: DF/S1/0224/GRAB/005
Inj Date : 18-AUG-2000 09:27
Operator : 1891 Inst ID: gc4.i
Smp Info : DHQXN104,5080-G.b,,PEST.sub,,
Misc Info : 120157001
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 20-Aug-2000 13:36 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/Vi)*(1/Ws)

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	100.000	initial volume of sample

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/Kg)
\$ 1 Tetrachloro-m-xylene	5.633	5.640	-0.007	37418	0.01637	1.637
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'-DDB				Compound Not Detected.		
17 Dieldrin				Compound Not Detected.		
20 Endrin				Compound Not Detected.		

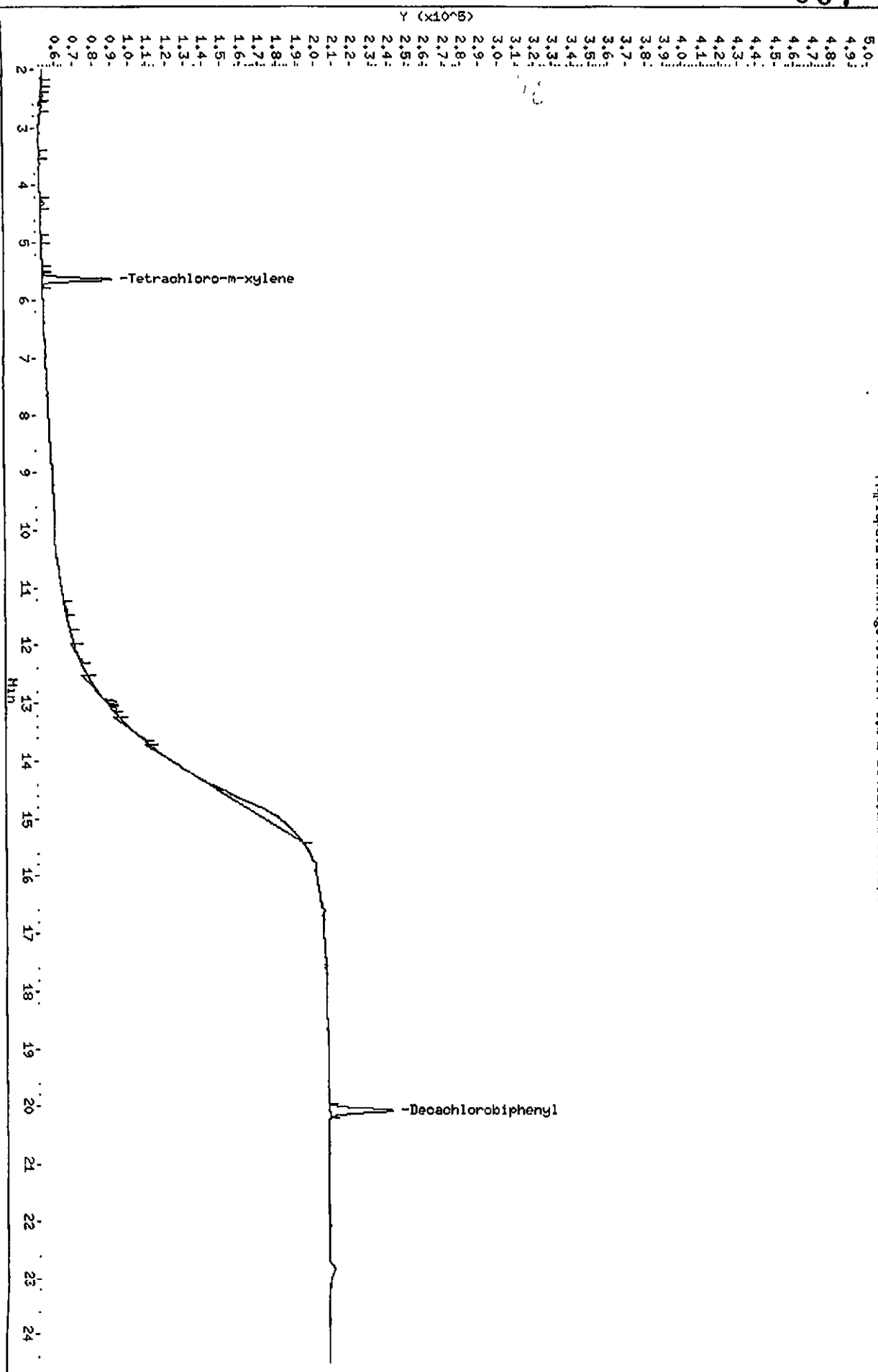
667 300

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
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	20.080	20.093	-0.013	33871	0.02003	2 003

Data File: \\pp1tpa02\chem\g04.1\5080-G.b\D-B5462.d
Date: 18-AUG-2000 09:27
Client ID: DF/SL/0224/GRAB/005
Sample Info: DHQX104,5080-G.b,,PEST.sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: g04.1
Operator: 1891
Column diameter: 0.53

\\pp1tpa02\chem\g04.1\5080-G.b\D-B5462.d\B-B5462.R04



667 302

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/12/00

Work Order: DHQXQ104

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229484

Client Sample Id: DF/S1/0224/SDC/024

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

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5463.d
Lab Smp Id: DHQXQ104 Client Smp ID: DF/S1/0224/SDC/024
Inj Date : 18-AUG-2000 09:55
Operator : 1891 Inst ID: gc4.i
Smp Info : DHQXQ104,5080-G.b,,PEST.sub,,
Misc Info : 120157002
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 20-Aug-2000 13:36 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: $\text{Amt} * \text{DF} * (\text{Vt}/\text{Vi}) * (1/\text{Ws})$

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	100.000	initial volume of sample

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/Kg)
\$ 1 Tetrachloro-m-xylene	5.640	5.640	0.000	39645	0.01734	1.734
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.		

667 304

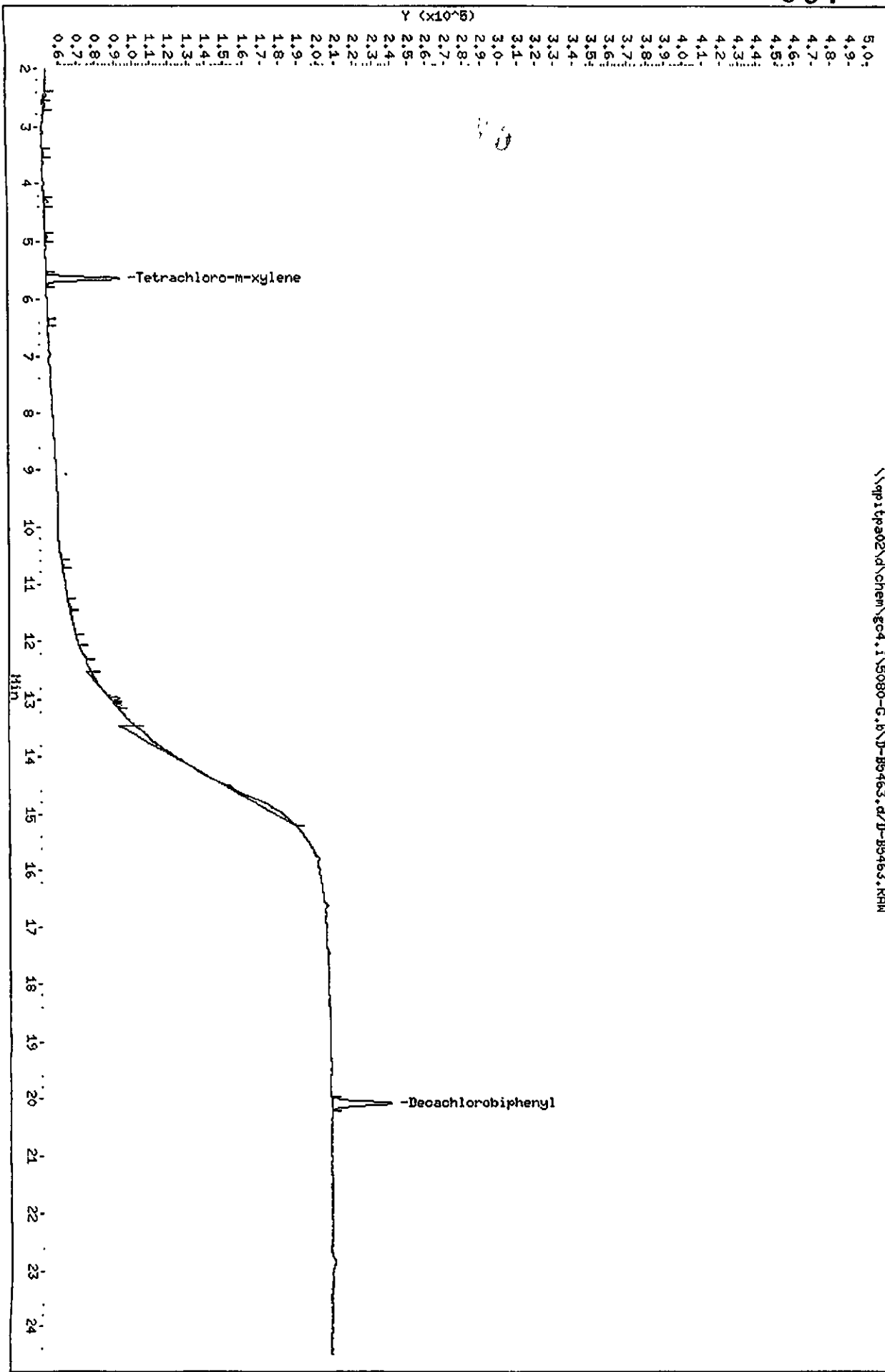
Data File: \\gpitpa02\d\chem\gc4.i\5080-G.b\D-B5463.d
 Report Date: 20-Aug-2000 13:44

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
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	20 080	20 093	-0.013	32726	0.01935	1.935

Data File: \\np1tpa02\chem\gc4.i\5080-G.b\D-B5463.d
Date : 18-AUG-2000 09:55
Client ID: DF/SL/0224/SDC/024
Sample Info: DHQX104,5080-G.b,,PEST,sub,,,
Volume Injected (uL): 1.0
Column phase: DB4701

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53

\\np1tpa02\chem\gc4.i\5080-G.b\D-B5463.d\B5463.RAW



667 306

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/12/00

Work Order: DHQXR104

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229484

Client Sample Id: DF/S1/0224/SDC/025

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(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

STL - Pittsburgh

Data file : \\gpitpa02\d\chem\gc4.i\5080-G.b\D-B5464.d
Lab Smp Id: DHQXR104 Client Smp ID: DF/S1/0224/SDC/025
Inj Date : 18-AUG-2000 10:23
Operator : 1891 Inst ID: gc4.i
Smp Info : DHQXR104, 5080-G.b, , PEST.sub, , ,
Misc Info : 120157003
Comment :
Method : \\gpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 20-Aug-2000 13:36 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/Vi)*(1/Ws)

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract
Vi	1.000	volume injected
Ws	100.000	initial volume of sample

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/Kg)
\$ 1 Tetrachloro-m-xylene	5.640	5.640	0 000	38342	0 01677	1.677
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.		

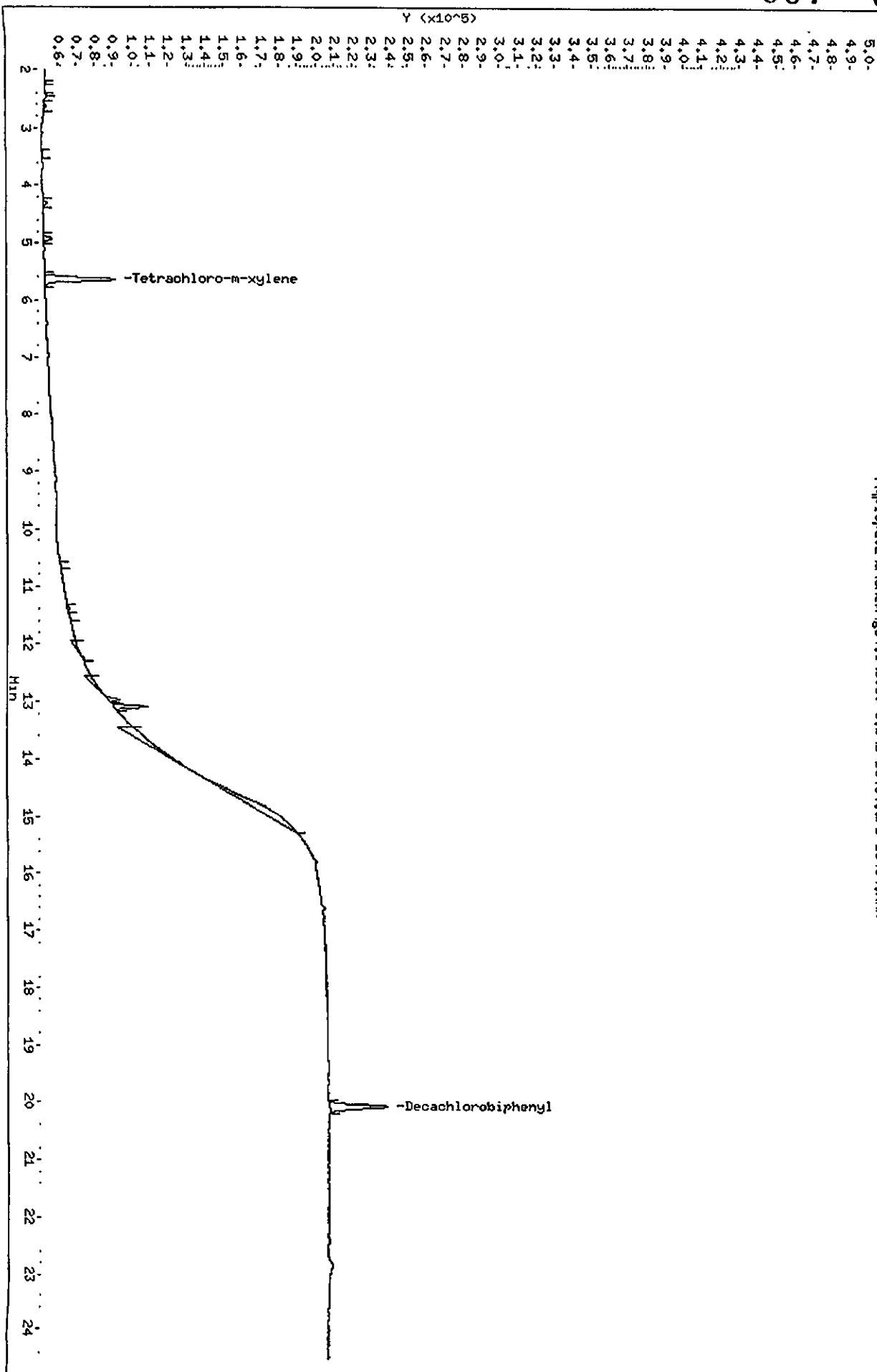
Data File: \\gpitpa02\d\chem\gc4.i\5080-G.b\D-B5464.d
Report Date: 20-Aug-2000 13:44

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/Kg)
=====	==	=====	=====	=====	=====	=====
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	20.080	20.093	-0.013	31617	0.01870	1.870

Data File: \\qpitpa02\chem\gc4.1\5080-G.b.D-B5464.d
 Date: 18-AUG-2000 10:23
 Client ID: DF/S1/0224/SDC/025
 Sample Info: DHQRI04,5080-G.b.,PEST.sub.,,
 Volume Injected (uL): 1.0
 Column Phase: DB1701

Instrument: gc4.i
 Operator: 1891
 Column diameter: 0.53

\\qpitpa02\chem\gc4.1\5080-G.b.D-B5464.d/D-B5464.RAW



667 310

**PESTICIDE
CALIBRATION DATA**

Report Date : 17-Aug-2000 13:31

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58904A
DB1701
8/18/00

667 311

STL Pittsburgh

COMPOUND LISTING

Method file : \\gpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
Quant Method : ESTD Target Version : 4.04
Last Update : 17-Aug-2000 13:27 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	5.640	5.590-5.690	2.29e+006
58 MIREX	16.827	16.777-16.877	1.78e+006
2 Diallate A	7.113	7.063-7.163	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	8.407	8.357-8.457	3.06e+006
6 gamma-BHC (Lindane)	9.793	9.743-9.843	2.65e+006
7 beta-BHC	12.220	12.170-12.270	1.66e+006
8 delta-BHC	12.887	12.837-12.937	3.44e+006
9 Chlordane	10.260	10.210-10.310	8.23e+004
	10.840	10.790-10.890	1.74e+005
	14.053	14.003-14.103	3.26e+005
	14.153	14.103-14.203	4.55e+005
10 Heptachlor	10.713	10.663-10.763	2.94e+006
11 Aldrin	11.680	11.630-11.730	2.85e+006
12 Heptachlor epoxide	13.373	13.323-13.423	3.31e+006
13 gamma-Chlordane	13.980	13.930-14.030	3.39e+006
14 alpha-Chlordane	14.080	14.030-14.130	3.31e+006
15 Endosulfan I	13.920	13.870-13.970	3.20e+006
16 4,4'-DDE	14.233	14.183-14.283	3.37e+006
17 Dieldrin	14.520	14.470-14.570	3.40e+006

667 312

Report Date : 17-Aug-2000 13:31

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58904/B
~~AS605~~ 281701 LM
8/18/00

STL Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m

Compound	RT	RT Window	RF
18 Toxaphene	15.333	15.283-15.383	3.96e+004
	15.653	15.603-15.703	4.93e+004
	16.113	16.063-16.163	5.17e+004
	16.867	16.817-16.917	4.68e+004
19 Isodrin	12.807	12.757-12.857	3.02e+006
20 Endrin	14.833	14.783-14.883	3.16e+006
21 4,4'-DDD	15.387	15.337-15.437	2.46e+006
22 Endosulfan II	15.540	15.490-15.590	2.86e+006
23 4,4'-DDT	15.680	15.630-15.730	2.48e+006
24 Endrin aldehyde	16.213	16.163-16.263	1.34e+006
25 Methoxychlor	16.727	16.677-16.777	1.17e+006
26 Endosulfan sulfate	16.800	16.750-16.850	1.75e+006
27 Endrin ketone	17.773	17.723-17.823	2.06e+006
28 Chlorobenzilate	15.133	15.083-15.183	1.73e+005
29 Kepone	17.780	17.730-17.830	3.85e+003
\$ 30 Decachlorobiphenyl	20.093	20.043-20.143	1.69e+006

Report Date : 10-Aug-2000 10:15

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589046
06179

667 313

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	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
58 MIREX	1717200	1905900	1858960	1704380	1699680	1777224	5.496
2 Diallyl A	103950	93024	99998	82384	85644	93000	9.850
3 Diallyl 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

667 314

Report Date : 10-Aug-2000 10:15

LDE
589046 8/10/00
DB/10/

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	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
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~~	~~178748~~	~~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

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL-PITTSBURGH

Contract:

667 315

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		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
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): _____

FORM VII PEST-1

OLM03.0

667 316

7D
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		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): _____

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

667 317

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 : 08/17/00

Lab Sample ID (PEM): EVALB Time Analyzed : 2220

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Endrin	14.83	14.78	14.88	0.02272	0.02500	-9.1
4,4'-DDT	15.67	15.63	15.73	0.02475	0.02500	-1.0

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00

Combined % breakdown (1): _____

PESTICIDE CALIBRATION VERIFICATION SUMMARY

667 318

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 : 08/18/00

Lab Sample ID (PEM): EVALB

Time Analyzed : 0859

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.83	14.78	14.88	0.02233	0.02500	-10.7
4,4'-DDT	15.67	15.63	15.73	0.02428	0.02500	-2.9

4,4'-DDT % breakdown (1): 0.00

Endrin % breakdown (1): 0.00

Combined % breakdown (1): _____

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5436.d
 Report Date: 18-Aug-2000 09:46

72
 584048
 061701
 667 319

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 17-AUG-2000 21:25
 Lab File ID: D-B5436.d Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
 Analysis Type: Init. Cal. Times: 15:52 01:35
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
-----	-----	-----	-----	-----
\$ 1 Tetrachloro-m-xylene	2286274	2403640	0.000	5.1 15.0
5 alpha-BHC	3064352	3211000	0.010	4.8 15.0
6 gamma-BHC (Lindane)	2652162	2834200	0.010	6.9 15.0
10 Heptachlor	2939876	3018160	0.010	2.7 15.0
15 Endosulfan I	3195984	3260880	0.010	2.0 15.0
17 Dieldrin	3395688	3572120	0.010	5.2 15.0
20 Endrin	3161848	3064360	0.010	-3.1 15.0
21 4,4'-DDD	2458664	2510880	0.010	2.1 15.0
23 4,4'-DDT	2484688	2471960	0.010	-0.5 15.0
25 Methoxychlor	1167724	1191000	0.010	2.0 15.0
\$ 30 Decachlorobiphenyl	1691118	1791880	0.010	6.0 15.0

667 320

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5437.d
Report Date: 18-Aug-2000 09:46

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06/17/01

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 17-AUG-2000 21:53
Lab File ID: D-B5437.d Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Analysis Type: Init. Cal. Times: 15:52 01:35
Lab Sample ID: MEDB Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	RRF	%D	MAX
11 Aldrin	2848242	2964680	0.010	4.1	15.0	
7 beta-BHC	1662692	1665520	0.010	0.2	15.0	
8 delta-BHC	3435360	3365280	0.010	-2.0	15.0	
12 Heptachlor epoxide	3313588	3387280	0.010	2.2	15.0	
13 gamma-Chlordane	3392070	3436600	0.010	1.3	15.0	
14 alpha-Chlordane	3307730	3411360	0.010	3.1	15.0	
16 4,4'-DDE	3368194	3448400	0.010	2.4	15.0	
22 Endosulfan II	2862696	2770720	0.010	-3.2	15.0	
24 Endrin aldehyde	1340518	1370000	0.010	2.2	15.0	
26 Endosulfan sulfate	1751636	1746480	0.010	-0.3	15.0	
27 Endrin ketone	2064352	2170960	0.010	5.2	15.0	

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5459.d
Report Date: 18-Aug-2000 09:52

STL - Pittsburgh

667 321

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 18-AUG-2000 08:03
Lab File ID: D-B5459.d Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Analysis Type: Init. Cal. Times: 15:52 01:35
Lab Sample ID: MEDA Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
			RRF	%D
\$ 1 Tetrachloro-m-xylene	2286274	2397160	0.000	4.9
5 alpha-BHC	3064352	3228200	0.010	5.3
6 gamma-BHC (Lindane)	2652162	2829560	0.010	6.7
10 Heptachlor	2939876	3041120	0.010	3.4
15 Endosulfan I	3195984	3290280	0.010	3.0
17 Dieldrin	3395688	3565080	0.010	5.0
20 Endrin	3161848	2883160	0.010	-8.8
21 4,4'-DDD	2458664	2445320	0.010	-0.5
23 4,4'-DDT	2484688	2451760	0.010	-1.3
25 Methoxychlor	1167724	1182680	0.010	1.3
\$ 30 Decachlorobiphenyl	1691118	1785880	0.010	5.6

667 322

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5460.d

Report Date: 20-Aug-2000 13:20

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DB1701
8/22/00

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 18-AUG-2000 08:31
 Lab File ID: D-B5460.d Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
 Analysis Type: Init. Cal. Times: 15:52 01:35
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
-----	-----	-----	-----	-----
11 Aldrin	2848242	2983960	0.010	4.8 15.0
7 beta-BHC	1662692	1703080	0.010	2.4 15.0
8 delta-BHC	3435360	3382800	0.010	-1.5 15.0
12 Heptachlor epoxide	3313588	3461160	0.010	4.5 15.0
13 gamma-Chlordane	3392070	3517440	0.010	3.7 15.0
14 alpha-Chlordane	3307730	3475800	0.010	5.1 15.0
16 4,4'-DDE	3368194	3496200	0.010	3.8 15.0
22 Endosulfan II	2862696	2808000	0.010	-1.9 15.0
24 Endrin aldehyde	1340518	1380120	0.010	3.0 15.0
26 Endosulfan sulfate	1751636	1714640	0.010	-2.1 15.0
27 Endrin ketone	2064352	2177080	0.010	5.5 15.0

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5482.d
Report Date: 20-Aug-2000 13:25

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STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 18-AUG-2000 18:42
Lab File ID: D-B5482.d Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Analysis Type: Init. Cal. Times: 15:52 01:35
Lab Sample ID: MEDA Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
			RRF	%D
\$ 1 Tetraachloro-m-xylene	2286274	2401800	0.000	5.1 15.0
5 alpha-BHC	3064352	3230720	0.010	5.4 15.0
6 gamma-BHC (Lindane)	2652162	2845120	0.010	7.3 15.0
10 Heptachlor	2939876	3044840	0.010	3.6 15.0
15 Endosulfan I	3195984	3312400	0.010	3.6 15.0
17 Dieldrin	3395688	3584080	0.010	5.5 15.0
20 Endrin	3161848	3046880	0.010	-3.6 15.0
21 4,4'-DDD	2458664	2513360	0.010	2.2 15.0
23 4,4'-DDT	2484688	2462040	0.010	-0.9 15.0
25 Methoxychlor	1167724	1214500	0.010	4.0 15.0
\$ 30 Decachlorobiphenyl	1691118	1810480	0.010	7.1 15.0

Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5483.d
Report Date: 20-Aug-2000 13:25

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06121

667 324

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 18-AUG-2000 19:10
Lab File ID: D-B5483.d Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Analysis Type: Init. Cal. Times: 15:52 01:35
Lab Sample ID: MEDB Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
11 Aldrin	2848242	2910480	0.010	2.2
7 beta-BHC	1662692	1688640	0.010	1.6
8 delta-BHC	3435360	3317040	0.010	-3.4
12 Heptachlor epoxide	3313588	3469120	0.010	4.7
13 gamma-Chlordane	3392070	3463320	0.010	2.1
14 alpha-Chlordane	3307730	3442440	0.010	4.1
16 4,4'-DDE	3368194	3515160	0.010	4.4
22 Endosulfan II	2862696	2839800	0.010	-0.8
24 Endrin aldehyde	1340518	1364480	0.010	1.8
26 Endosulfan sulfate	1751636	1740960	0.010	-0.6
27 Endrin ketone	2064352	2162040	0.010	4.7

8D
PESTICIDE ANALYTICAL SEQUENCE

667 325

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C0H120157

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	MEDA	08/17/00	2125	5.64	20.08
18	MEDB	08/17/00	2153		
19	EVALB	08/17/00	2220	5.64	20.08
20	PBLK9484 DJ0KG101	08/18/00	0708	5.63	20.08
21	LCS9484 DJ0KG102	08/18/00	0736	5.65	20.08
22	MEDA	08/18/00	0803	5.64	20.08
23	MEDB	08/18/00	0831		
24	EVALB	08/18/00	0859	5.64	20.08
25	DF/S1/0224/G DHQXN104	08/18/00	0927	5.63	20.08
26	DF/S1/0224/S DHQXQ104	08/18/00	0955	5.64	20.08
27	MEDA	08/18/00	1842	5.64	20.08
28	MEDB	08/18/00	1910		
29					
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:

667 326

H

Number of Times Edited : 1

✓ 04/2/00

Sequence File Header Information:

Number of Rows : 54
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel B								Addend	Norm factor
				Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor			
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	DG07P101,5080-G	180137004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
40	Sample	DG07P101,5080-G	180137004S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
41	Sample	DG07P10M,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

Raw State Back Vial Test Process Calib Report Raw Result Baseline Modified Cal Level Update 3037

SIL Pittsburgh

667 327

			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	9	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:

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STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5151.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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj 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: PITPC085

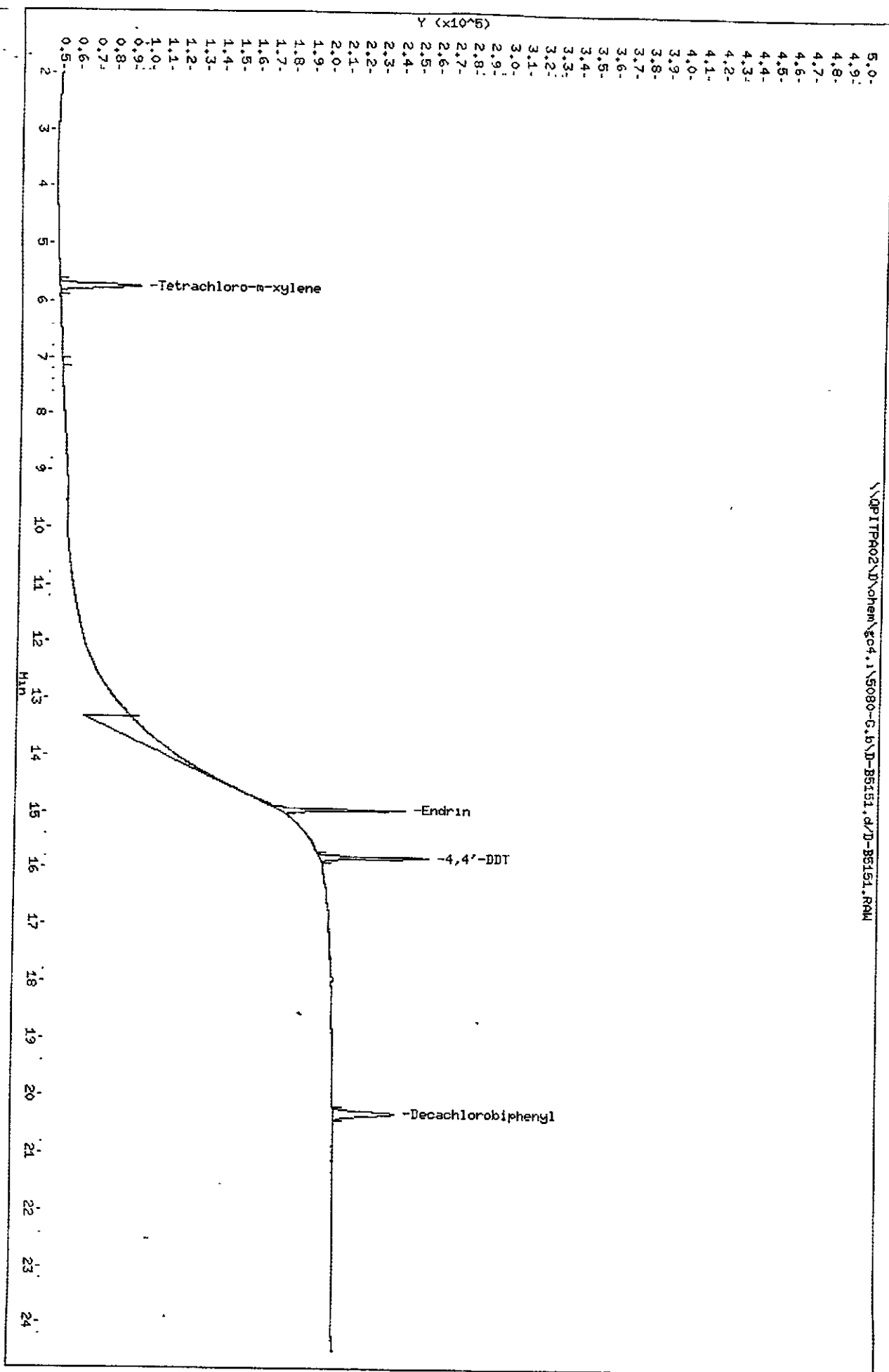
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5 726	5 720	0 006	45388	0 01985	0 01985(R)
16 4,4'-DDE				Compound Not Detected		
20 Endrin	14 913	14 913	0 000	70927	0 02243	0 02243
21 4,4'-DDD				Compound Not Detected.		
23 4,4'-DDT	15 766	15 766	0.000	61058	0 02457	0 02457
24 Endrin aldehyde				Compound Not Detected		
27 Endrin ketone				Compound Not Detected.		
\$ 30 Decachlorobiphenyl	20.280	20 280	0.000	34261	0 02026	0 02026(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \NQPITPA02\Nchem\gc4.1\5080-G.b\D-B5151.d
Date: 07-AUG-2000 15:25
Client ID:
Sample Info: EVRLB,5080-G.b,,EVRLBR,sub,,3,1
Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5152.d
Lab Smp Id: MEDTOX
Inj Date : 07-AUG-2000 15:52
Operator : 1891 Inst ID: gc4.1
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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
Cal Date : 07-AUG-2000 15:52 Cal File: D-B5152.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: PITPC085

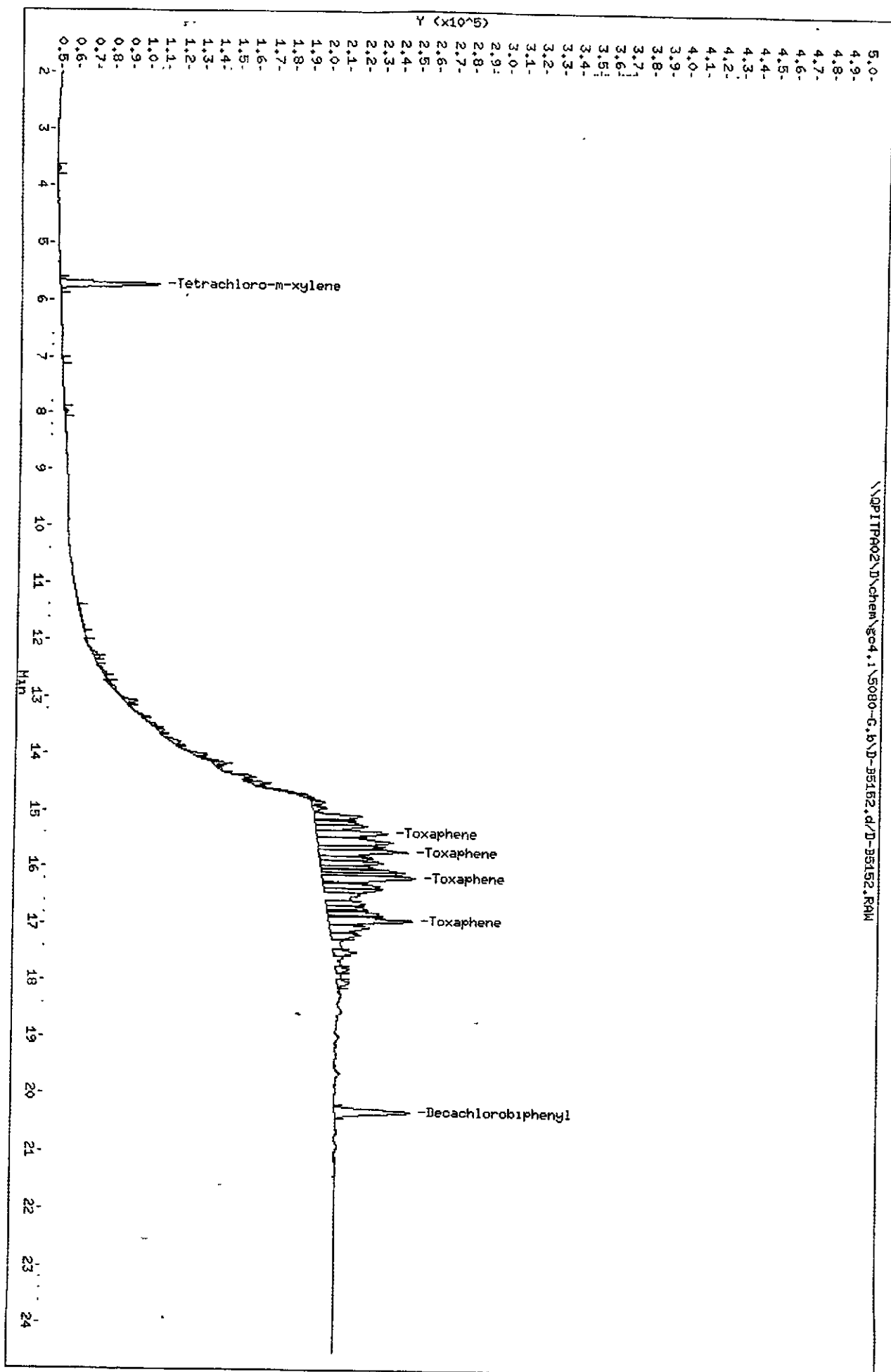
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
18 Toxaphene	15 353	15 353	0.000	39627	1 00000	1 000(M)
\$ 1 Tetrachloro-m-xylene	5 720	5 720	0.000	56063	0.02500	0.02500
\$ 30 Decachlorobiphenyl	20 280	20.280	0.000	41913	0 02500	0 02500

QC Flag Legend

M - Compound response manually integrated.

Data File: \\QPI1P002\Nchem\gc4,1\5080-G.b\D-B5152.d
Date: 07-AUG-2000 15:52
Client ID:
Sample Info: MEDTOX,5080-G.b,1-TOX.sub,1,3
Column phase: DB1701

Instrument: gc4,1
Operator: 1891
Column diameter: 0.53



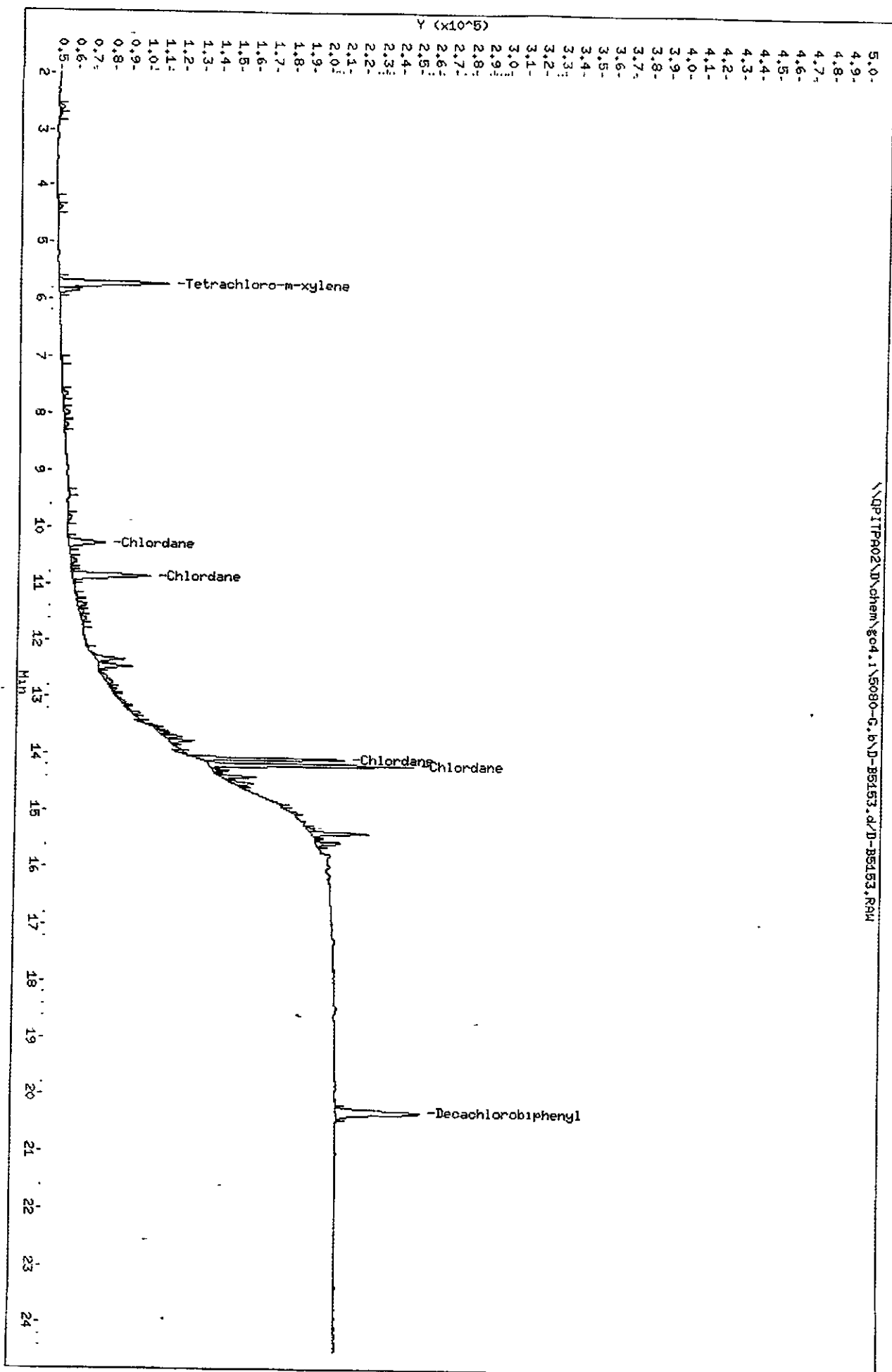
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5153.d
Lab Smp Id: MEDCHLOR
Inj Date : 07-AUG-2000 16:20
Operator : 1891 Inst ID: gc4.1
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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
Cal Date : 07-AUG-2000 16:20 Cal File: D-B5153.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: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
9 Chlordane	10.280	10.280	0.000	20567	0.25000	0.2500
\$ 1 Tetrachloro-m xylene	5.726	5.720	0.006	61356	0.02500	0.02500
\$ 30 Decachlorobiphenyl	20.286	20.280	0.006	46912	0.02500	0.02500

Data File: \\QP1TPA02\N\chem\gc4.1\5080-G.b\J-B5153.d
Date: 07-AUG-2000 16:20
Client ID:
Sample Info: MEDCHLOR, 5080-G.b, 2-CHL0, sub, 1,3
Column phase: DB1704

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



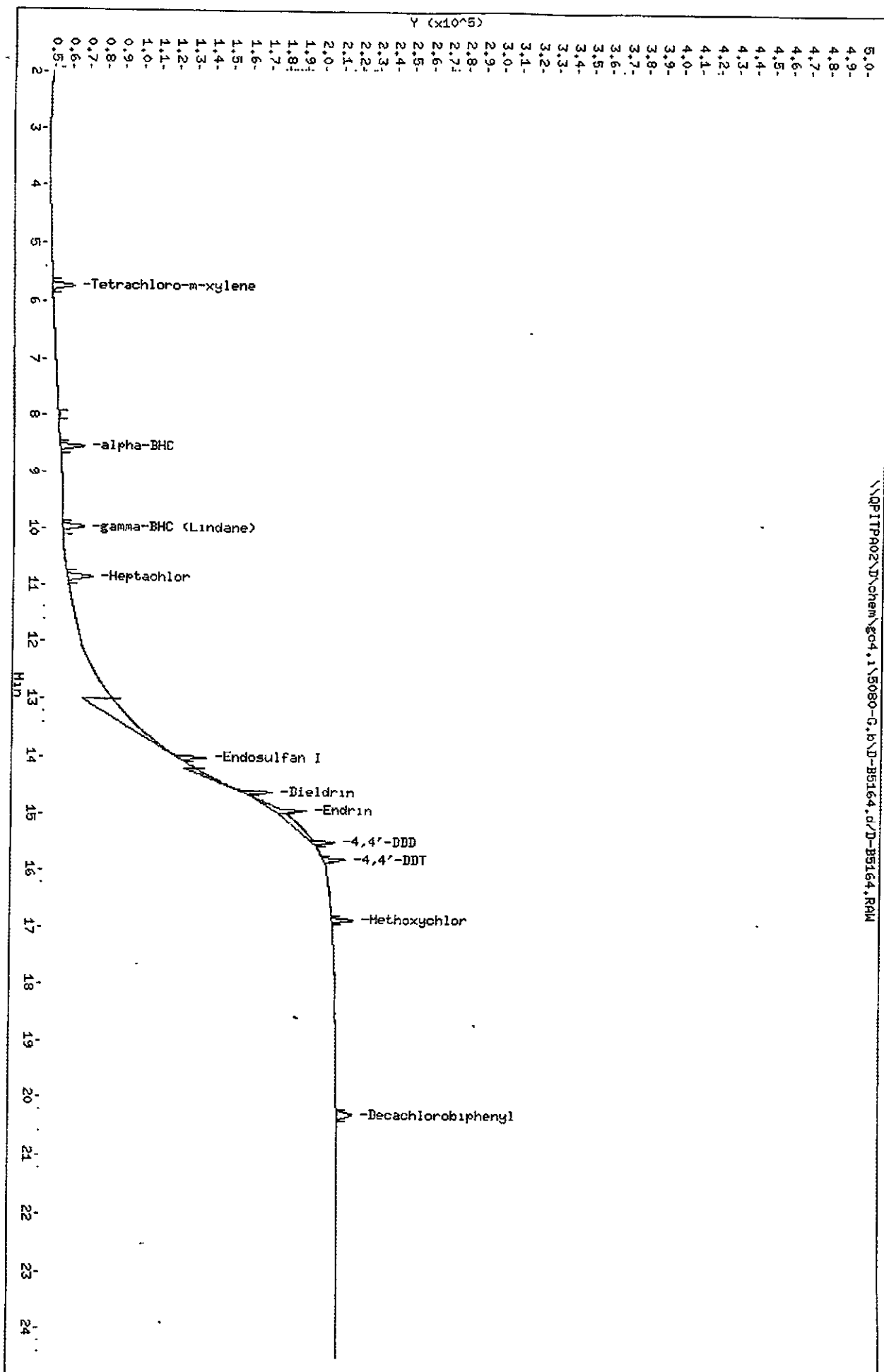
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5164.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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-B5171.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: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro m-xylene	5.733	5.720	0.013	12042	0.00500	0.005178
5 alpha-BHC	8.546	8.546	0.000	13335	0.00500	0.004660
6 gamma-BHC (Lindane)	9.966	9.960	0.006	11910	0.00500	0.004740
10 Heptachlor	10.860	10.860	0.000	14225	0.00500	0.004924
15 Endosulfan I	14.006	14.006	0.000	15582	0.00500	0.004971
17 Dieldrin	14.600	14.600	0.000	16308	0.00500	0.004921
20 Endrin	14.913	14.913	0.000	18515	0.00500	0.005605
21 4,4'-DDD	15.466	15.466	0.000	12888	0.00500	0.005228
23 4,4'-DDT	15.766	15.766	0.000	12280	0.00500	0.005034
25 Methoxychlor	16.833	16.833	0.000	11590	0.01000	0.01001
\$ 30 Decachlorobiphenyl	20.266	20.280	-0.014	8347	0.00500	0.004989

Data File: \\NPITPA02\chem\gc4,1\5080-G.b\D-B5164.d
 Date : 07-AUG-2000 21:25
 Client ID:
 Sample Info: LOM, 5080-G.b, 3-INDA, sub, 1,1
 Column phase: DB1701

Instrument: gc4,1
 Operator: 1891
 Column diameter: 0.53



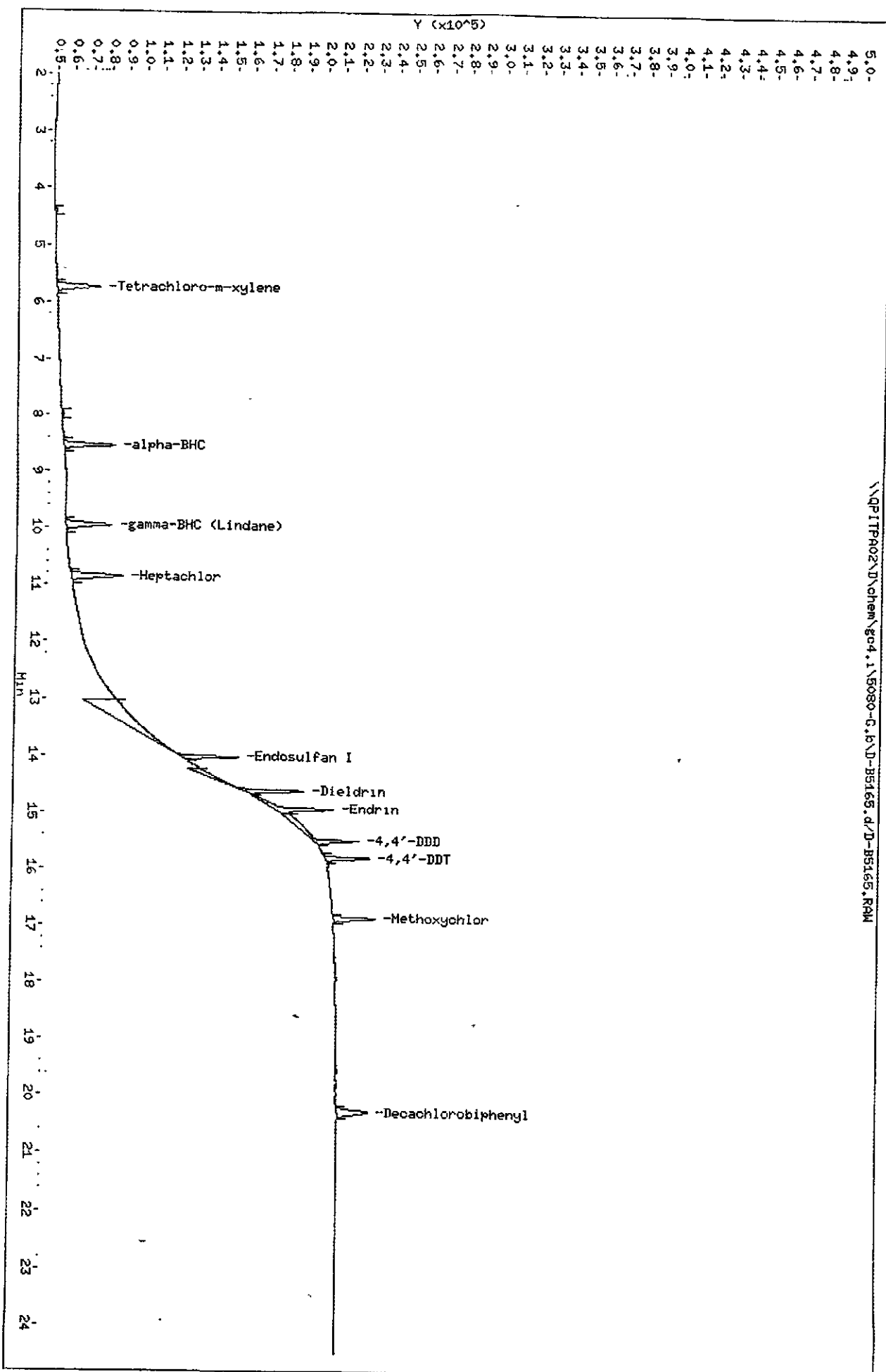
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5165.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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-B5171.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: PITPC085

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5 726	5 720	0 006	24109	0 01000	0 01024
5 alpha-BHC	8 540	8 546	-0 006	28308	0 01000	0 009929
6 gamma-BHC (Lindane)	9 960	9.960	0 000	25112	0.01000	0.009996
10 Heptachlor	10 860	10 860	0.000	28815	0 01000	0 009983
15 Endosulfan I	14 006	14 006	0 000	31973	0 01000	0 01013
17 Dieldrin	14 600	14 600	0 000	33148	0.01000	0.01000
20 Endrin	14 913	14 913	0 000	32441	0.01000	0 009880
21 4,4' DDD	15 466	15 466	0 000	24879	0 01000	0 01006
23 4,4'-DDT	15 766	15 766	0 000	24649	0 01000	0 01007
25 Methoxychlor	16 833	16 833	0 000	23322	0 02000	0 02010
\$ 30 Decachlorobiphenyl	20 266	20.280	-0.014	17473	0 01000	0 01029

Data File: \\QPIITP02\chem\gc4.1\5080-G.b.D-B5165.d
Date: 07-AUG-2000 21:53
Client ID:
Sample Info: HLOWA, 5080-G.b, 3-INDA.sub, 1,2
Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



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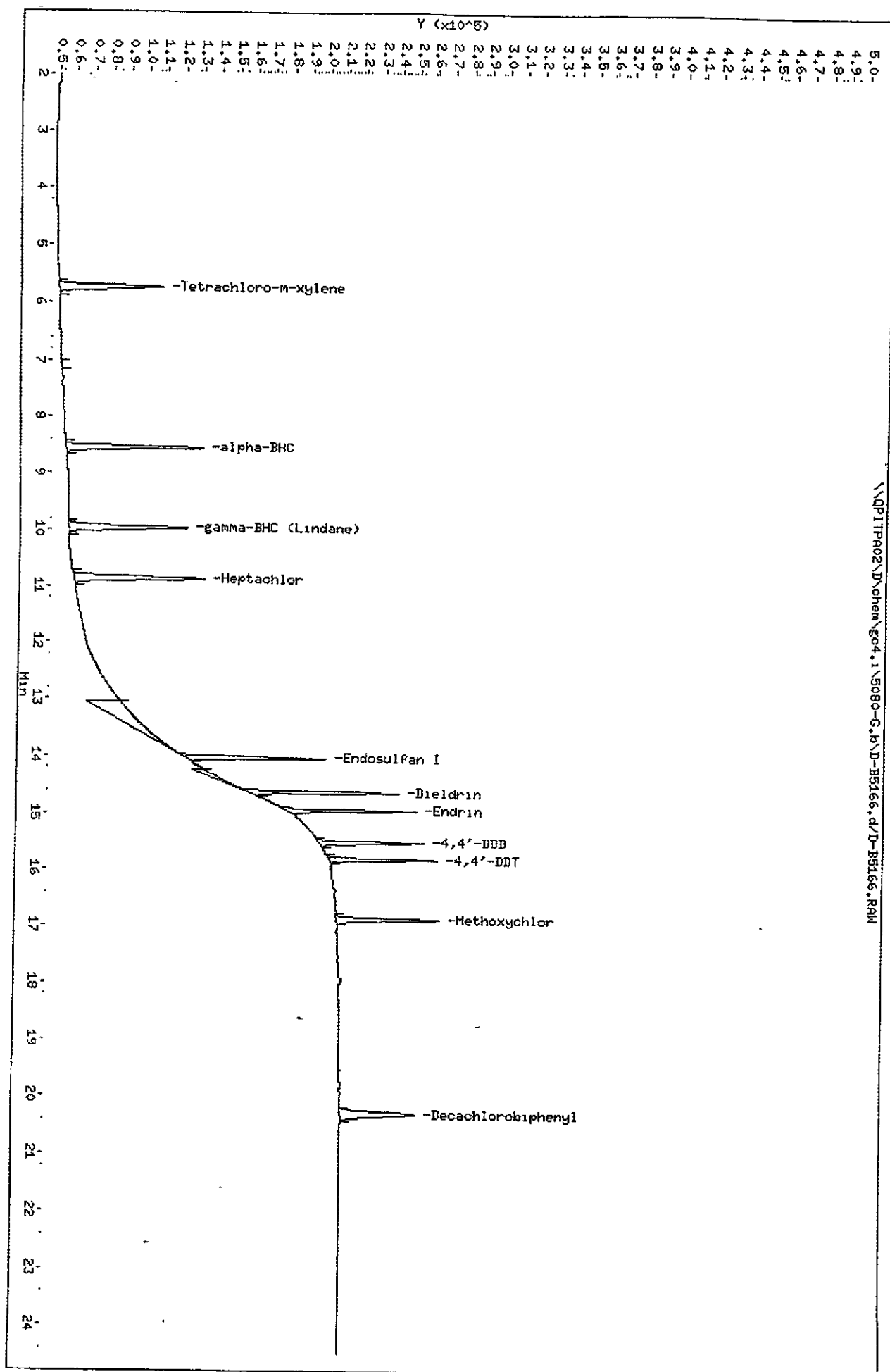
Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5166.d
Lab Smp Id: MEDA
Inj Date : 07-AUG-2000 22:21
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,5080-G.b,,3-INDA.sub,,1,3
Misc Info : 190-84-3
Comment :
Method : \\QPITPA02\D\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
Cal Date : 07-AUG-2000 22:21 Cal File: D-B5166.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: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON COL (ng)
\$ 1 Tetrachloro m xylene	5.733	5.720	0.013	57884	0.02500	0 02500
5 alpha-BHC	8.546	8.546	0.000	76388	0.02500	0 02500
6 gamma-BHC (Lindane)	9 960	9 960	0 000	66083	0 02500	0 02500
10 Heptachlor	10 860	10.860	0 000	73312	0.02500	0 02500
15 Endosulfan I	14 006	14 006	0 000	78830	0 02500	0 02500
17 Dieldrin	14 600	14 600	0.000	84144	0 02500	0 02500
20 Endrin	14 913	14 913	0 000	72585	0 02500	0 02500
21 4,4'-DDD	15 466	15 466	0 000	58819	0.02500	0 02500
23 4,4'-DDT	15.766	15 766	0 000	60566	0 02500	0 02500
25 Methoxychlor	16 833	16 833	0 000	57779	0 05000	0 05000
\$ 30 Decachlorobiphenyl	20 266	20 280	0 014	42252	0 02500	0 02500

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Data File: \\QPI\PA02\chem\gc4.1\5080-G.b\D-B5166.d
Date: 07-AUG-2000 22:24
Client ID:
Sample Info: MEPA,5080-G.b,3-INDA,sub,1,3
Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



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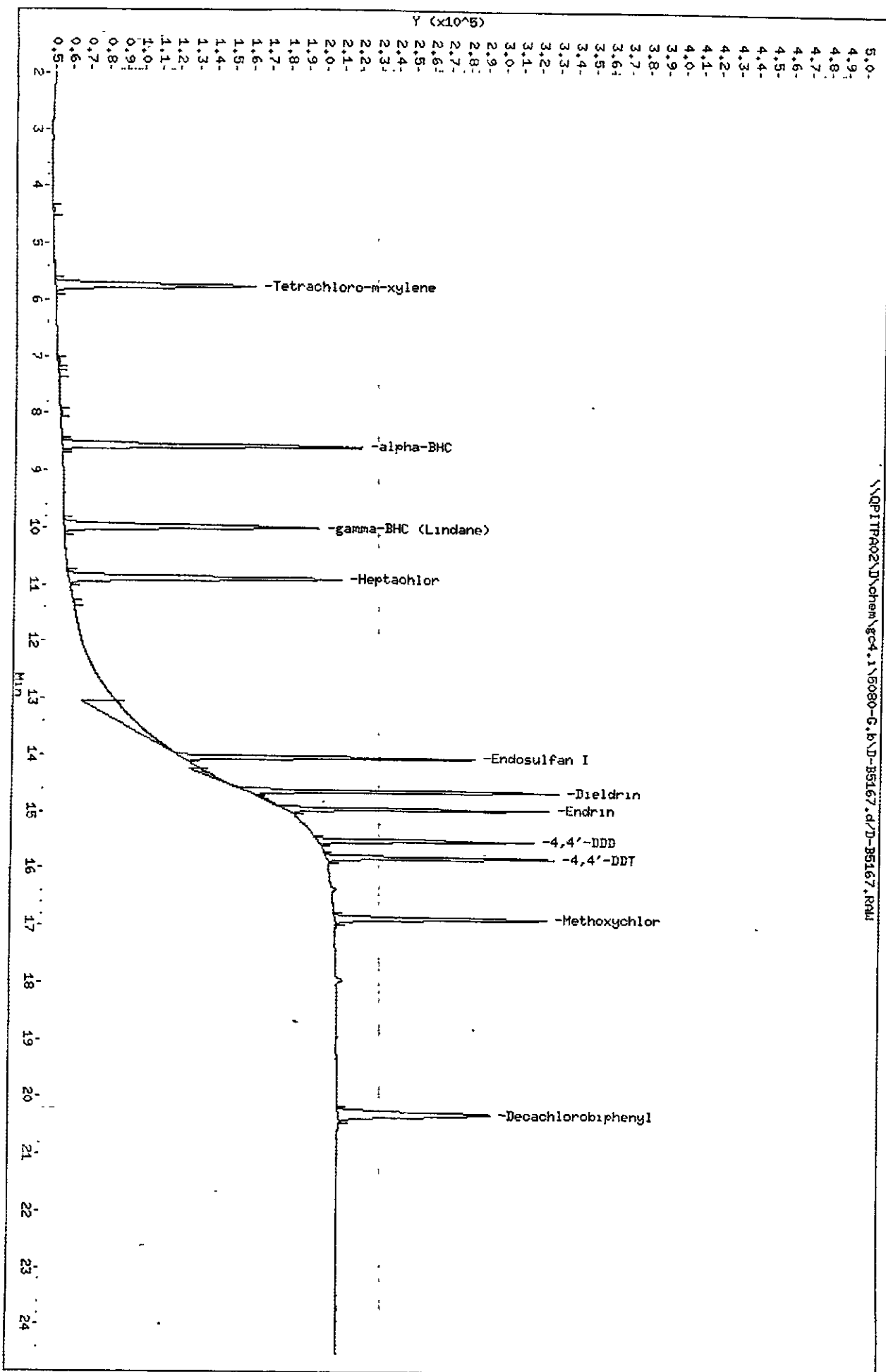
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5167.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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-B5171.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: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5 740	5 720	0 020	110926	0 05000	0.04781
5 alpha BHC	8 546	8 546	0 000	166513	0 05000	0 05605
6 gamma-BHC (Lindane)	9.966	9 960	0 006	141563	0.05000	0 05462
10 Heptachlor	10 866	10.860	0.006	151092	0.05000	0.05174
15 Endosulfan I	14 006	14 006	0.000	163403	0 05000	0 05132
17 Dieldrin	14 600	14 600	0 000	175075	0 05000	0 05209
20 Endrin	14.913	14 913	0 000	148068	0 05000	0 04623
21 4,4'-DDD	15 466	15 466	0 000	120911	0 05000	0.04917
23 4,4'-DDT	15 766	15 766	0.000	126855	0 05000	0 05135
25 Methoxychlor	16 833	16 833	0 000	118661	0 10000	0 1017
\$ 30 Decachlorobiphenyl	20 266	20 280	-0 014	85130	0 05000	0 05011

Data File: \\QPITPA02\J\chem\gc4.1\5080-G.b.D-B5167.d
Date : 07-AUG-2000 22:49
Client ID:
Sample Info: MHIGH4,5080-G.b.,3-INDA,sub.,1,4
Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5168.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\PESTB.m
 Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
 Cal Date : 08-AUG-2000 00:39 Cal File: D-B5171.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: PITPC085

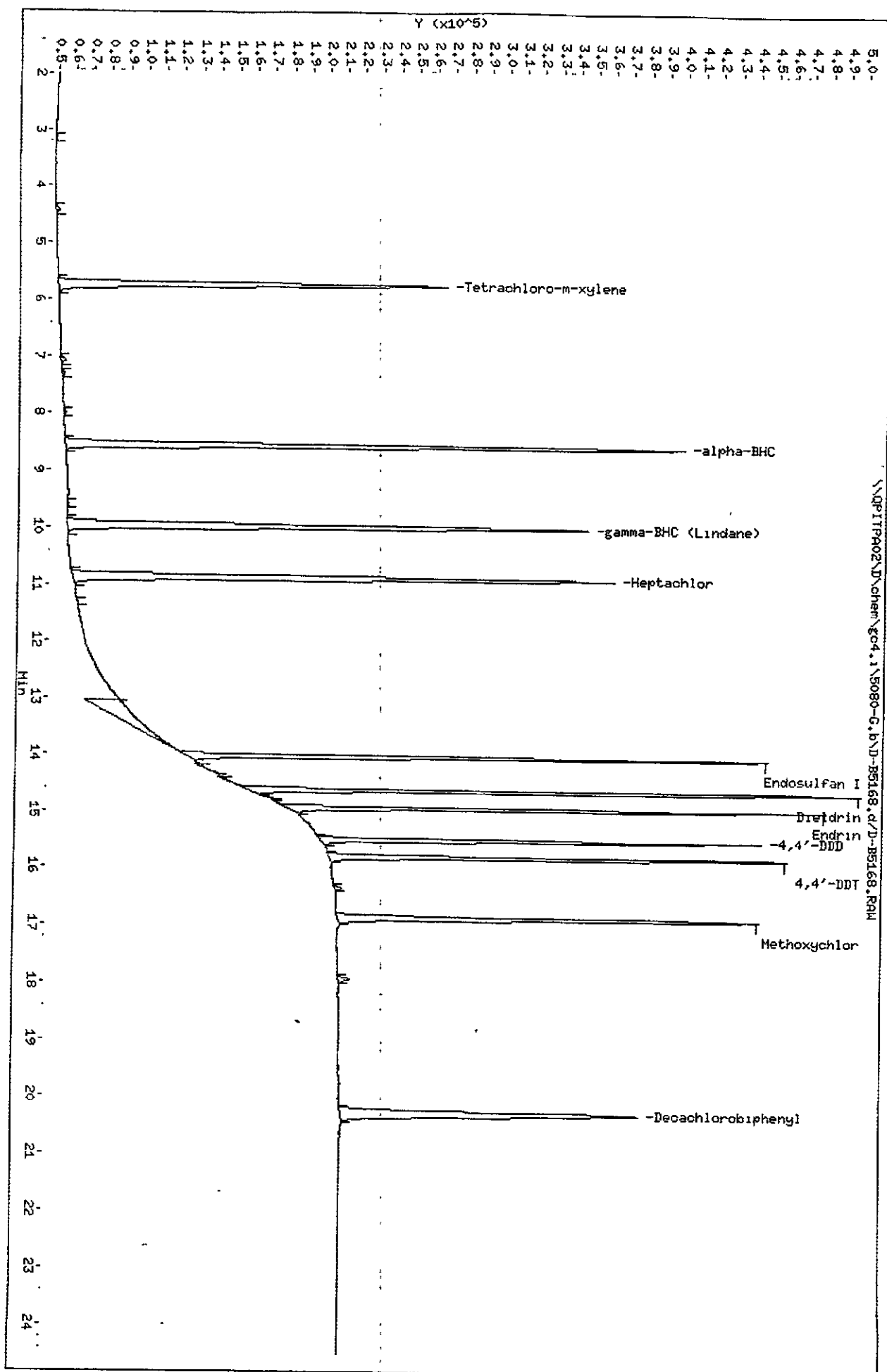
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.733	5.720	0.013	215103	0.10000	0.09408
5 alpha-BHC	8.546	8.546	0.000	343818	0.10000	0.1122(A)
6 gamma-BHC (Lindane)	9.966	9.960	0.006	289303	0.10000	0.1091(A)
10 Heptachlor	10.860	10.860	0.000	301856	0.10000	0.1027(A)
15 Endosulfan I	14.006	14.006	0.000	324496	0.10000	0.1015(A)
17 Dieldrin	14.600	14.600	0.000	353478	0.10000	0.1041(A)
20 Endrin	14.913	14.913	0.000	299738	0.10000	0.09480
21 4,4'-DDD	15.466	15.466	0.000	245684	0.10000	0.09992
23 4,4'-DDT	15.766	15.766	0.000	254280	0.10000	0.1023(A)
25 Methoxychlor	16.833	16.833	0.000	234266	0.20000	0.2006(A)
\$ 30 Decachlorobiphenyl	20.266	20.280	-0.014	165977	0.10000	0.09815

QC Flag Legend

A - Target compound detected but, quantitated amount
 exceeded maximum amount.

Data File: \NPI\PA02\chem\gc4.1\5080-G.b\D-B5168.d
Date: 07-AUG-2000 23:16
Client ID:
Sample Info: HICHA, 5080-G.b, 3-INDR, sub, 1, 5
Column phase: DB1.701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



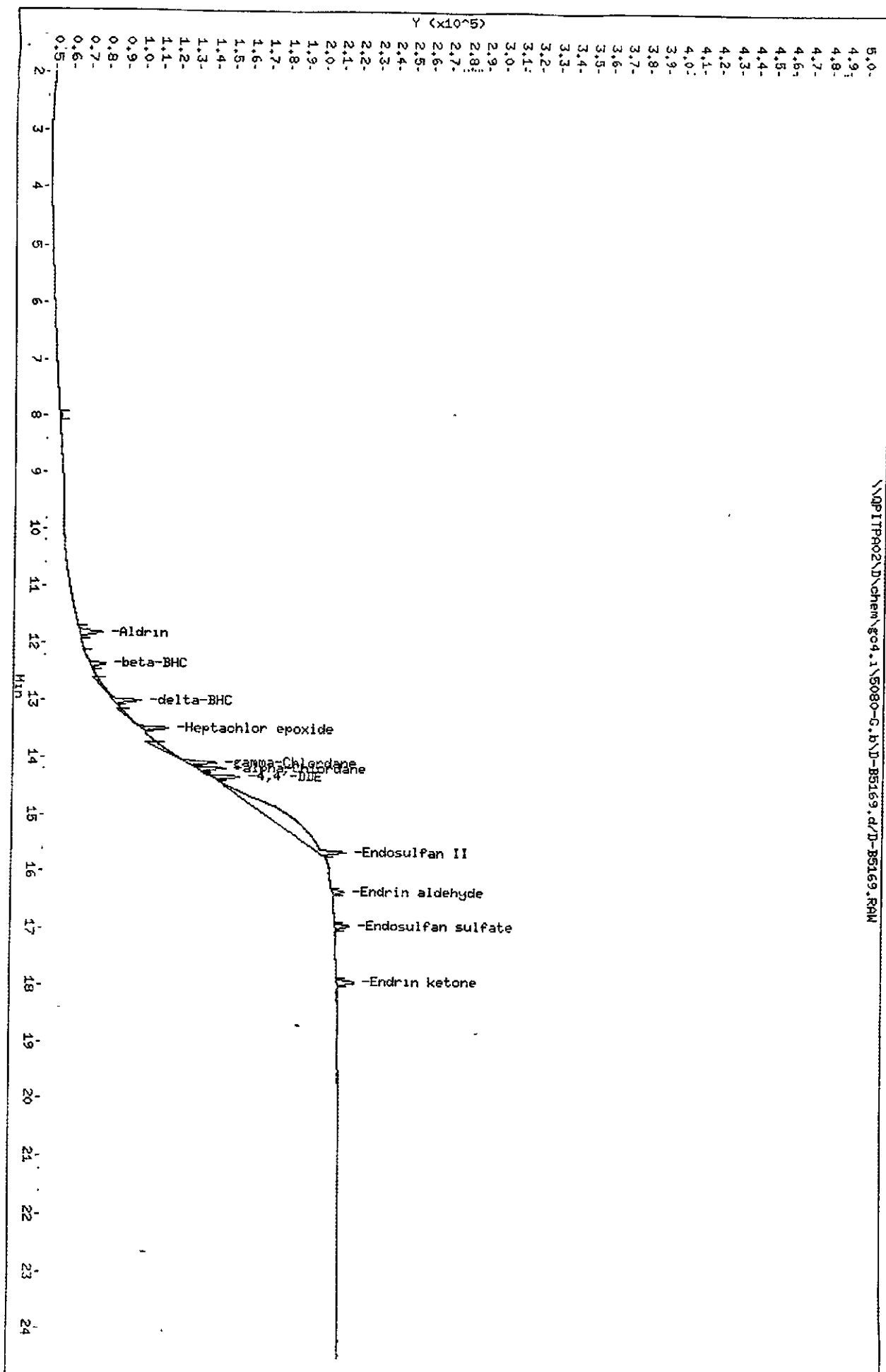
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5169.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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-B5171.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: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11 820	11 820	0 000	12822	0 00500	0.004818
7 beta-BHC	12 360	12 360	0 000	8132	0 00500	0 005012
8 delta-BHC	13 000	13 000	0.000	14859	0.00500	0.004707
12 Heptachlor epoxide	13 473	13 473	0.000	15441	0 00500	0 004899
13 gamma-Chlordane	14 066	14 066	0 000	16067	0 00500	0 004954
14 alpha-Chlordane	14 166	14 166	0 000	16067	0 00500	0 005022
16 4,4'-DDE	14 313	14 313	0.000	16021	0 00500	0 004946
22 Endosulfan II	15.626	15 626	0 000	14972	0 00500	0 005250
24 Endrin aldehyde	16 320	16 313	0 007	6203	0 00500	0 004871
26 Endosulfan sulfate	16 920	16 913	0 007	8085	0 00500	0.004882
27 Endrin ketone	17 913	17 906	0 007	9725	0 00500	0 004912

Data File: \\QPI1P02\chem\gc4.1\5080-G.b\D-B5169.d
Date: 07-AUG-2000 23:44
Client ID:
Sample Info: LOWB,5080-G.b,4-INDR,sdb,.1,1
Column Phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



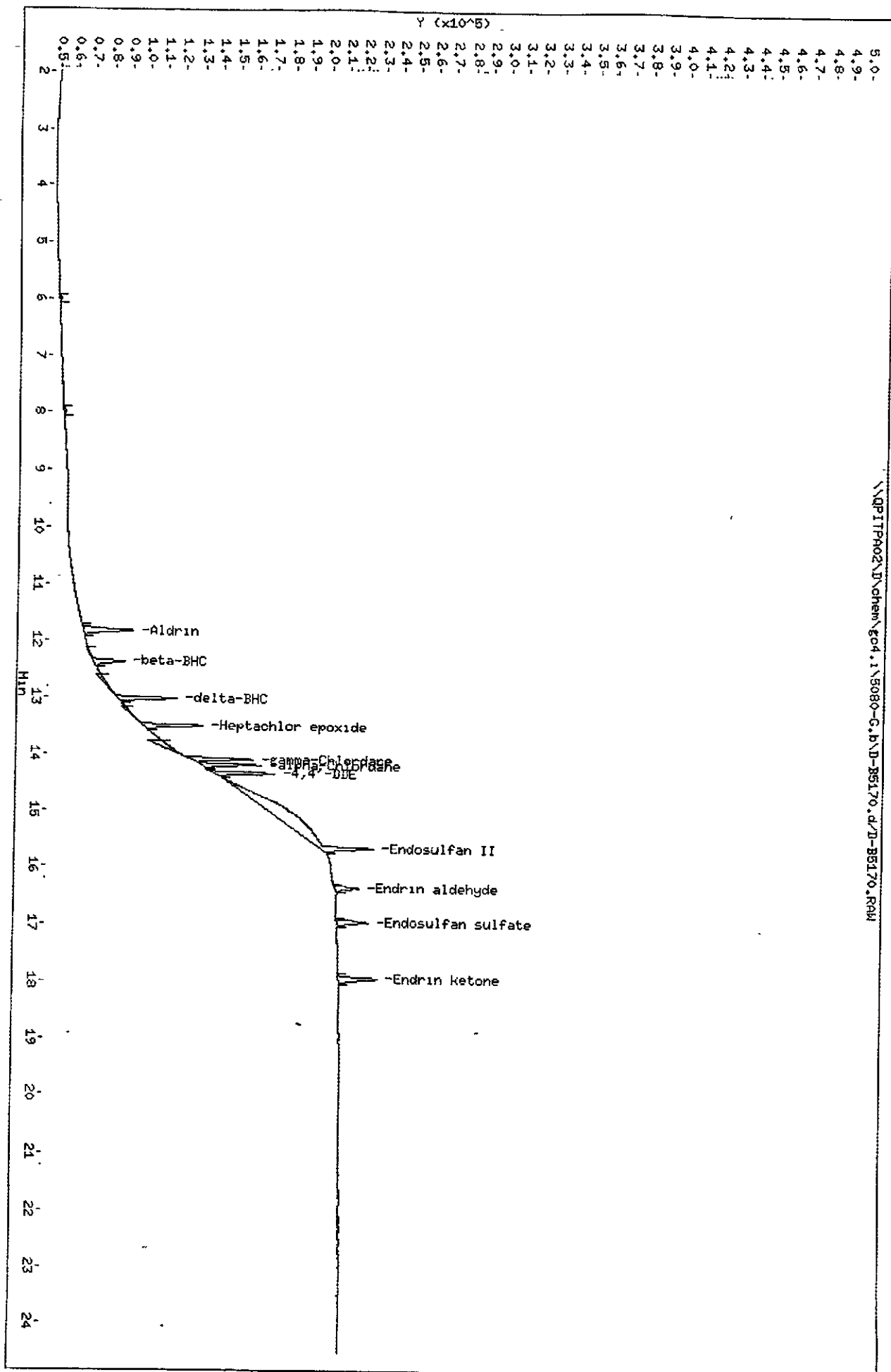
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5170.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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-B5171.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: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL AMT (ng)	ON COL (ng)
11 Aldrin	11 813	11 820	-0 007	27880	0 01000	0 01031
7 beta-BHC	12 360	12.360	0.000	17028	0 01000	0 01032
8 delta-BHC	13 000	13 000	0.000	32973	0 01000	0.01029
12 Heptachlor epoxide	13 473	13 473	0 000	32948	0 01000	0 01030
13 gamma Chlordane	14 066	14 066	0 000	34249	0 01000	0 01037
14 alpha-Chlordane	14 166	14 166	0 000	33312	0.01000	0 01027
16 4,4' DDE	14 313	14 313	0 000	33536	0 01000	0.01023
22 Endosulfan II	15 626	15 626	0 000	28945	0 01000	0 01010
24 Endrin aldehyde	16 313	16 313	0 000	13343	0 01000	0 01031
26 Endosuifan sulfate	16.920	16.913	0 007	17358	0 01000	0 01032
27 Endrin ketone	17 906	17 906	0.000	21065	0 01000	0 01042

Data File: \\QPI7P002\chem\gc4.1\5080-G.b\B-BS170.d
Date: 08-AUG-2000 00:12
Client ID:
Sample Info: HLOMB,5080-G.b,4-INDB.sub,1,2
Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



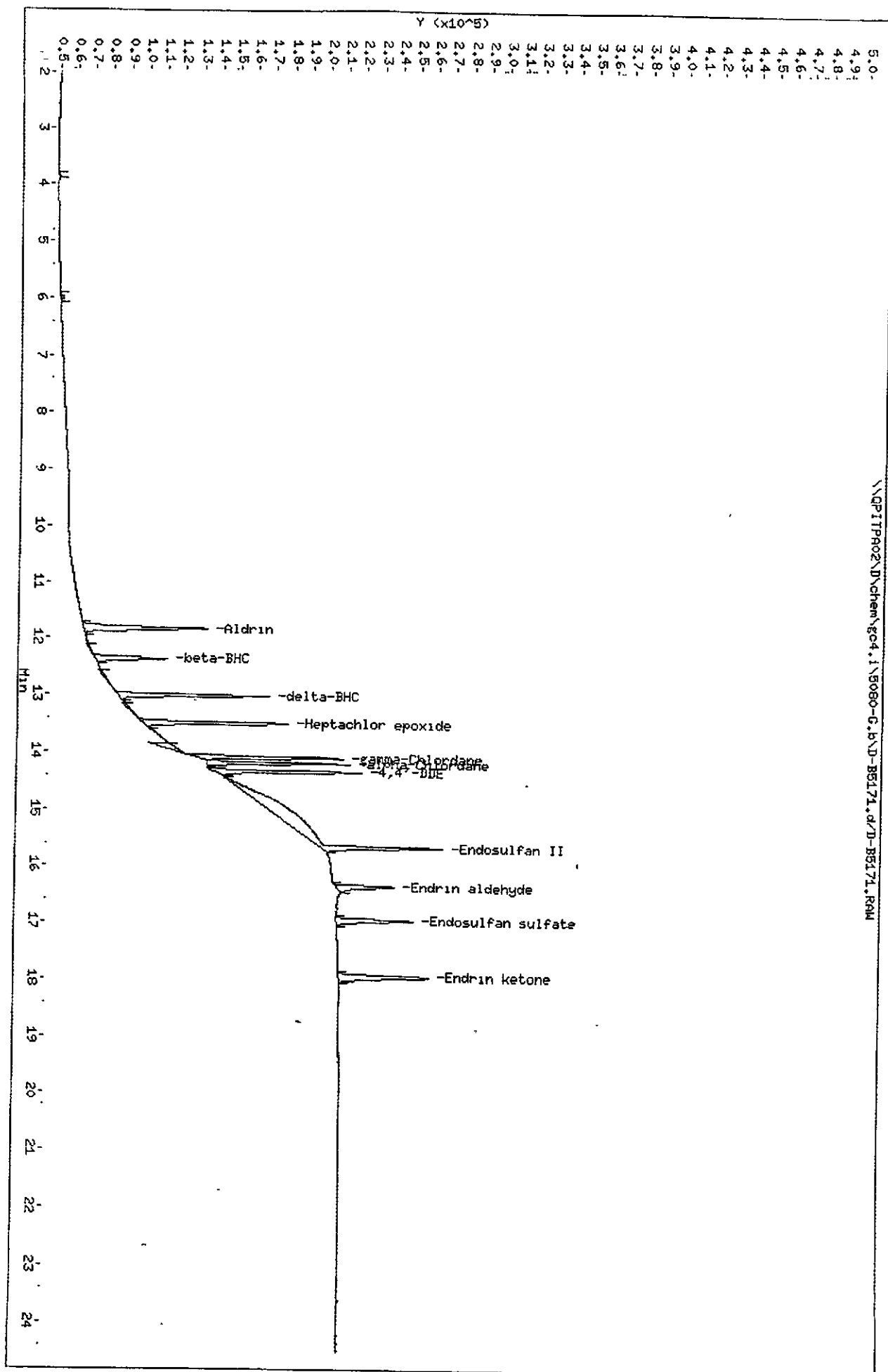
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5171.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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
Cal Date : 08-AUG-2000 00:39 Cal File: D-B5171.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: PITPC085

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL AMT (ng)	ON COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11 820	11 820	0.000	68952	0.02500	0.02500
7 beta-BHC	12 360	12 360	0.000	40468	0.02500	0.02500
8 delta BHC	13 000	13 000	0.000	63530	0.02500	0.02500
12 Heptachlor epoxide	13 473	13 473	0.000	80396	0.02500	0.02500
13 gamma-Chlordane	14 066	14 066	0.000	81835	0.02500	0.02500
14 alpha-Chlordane	14 166	14 166	0.000	79632	0.02500	0.02500
16 4,4'-DDE	14 313	14 313	0.000	81856	0.02500	0.02500
22 Endosulfan II	15 626	15 626	0.000	67732	0.02500	0.02500
24 Endrin aldehyde	16 313	16 313	0.000	32658	0.02500	0.02500
26 Endosulfan sulfate	16 913	16 913	0.000	42382	0.02500	0.02500
27 Endrin ketone	17 906	17 906	0.000	50362	0.02500	0.02500

Data File: \\QPI1P02\Nchem\gc4.1\5080-G.b\D-B5171.d
Date : 08-AUG-2000 00:39
Client ID:
Sample Info: MEDB,5080-G,b,,4-INDR,sub,1,3
Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



STL Pittsburgh

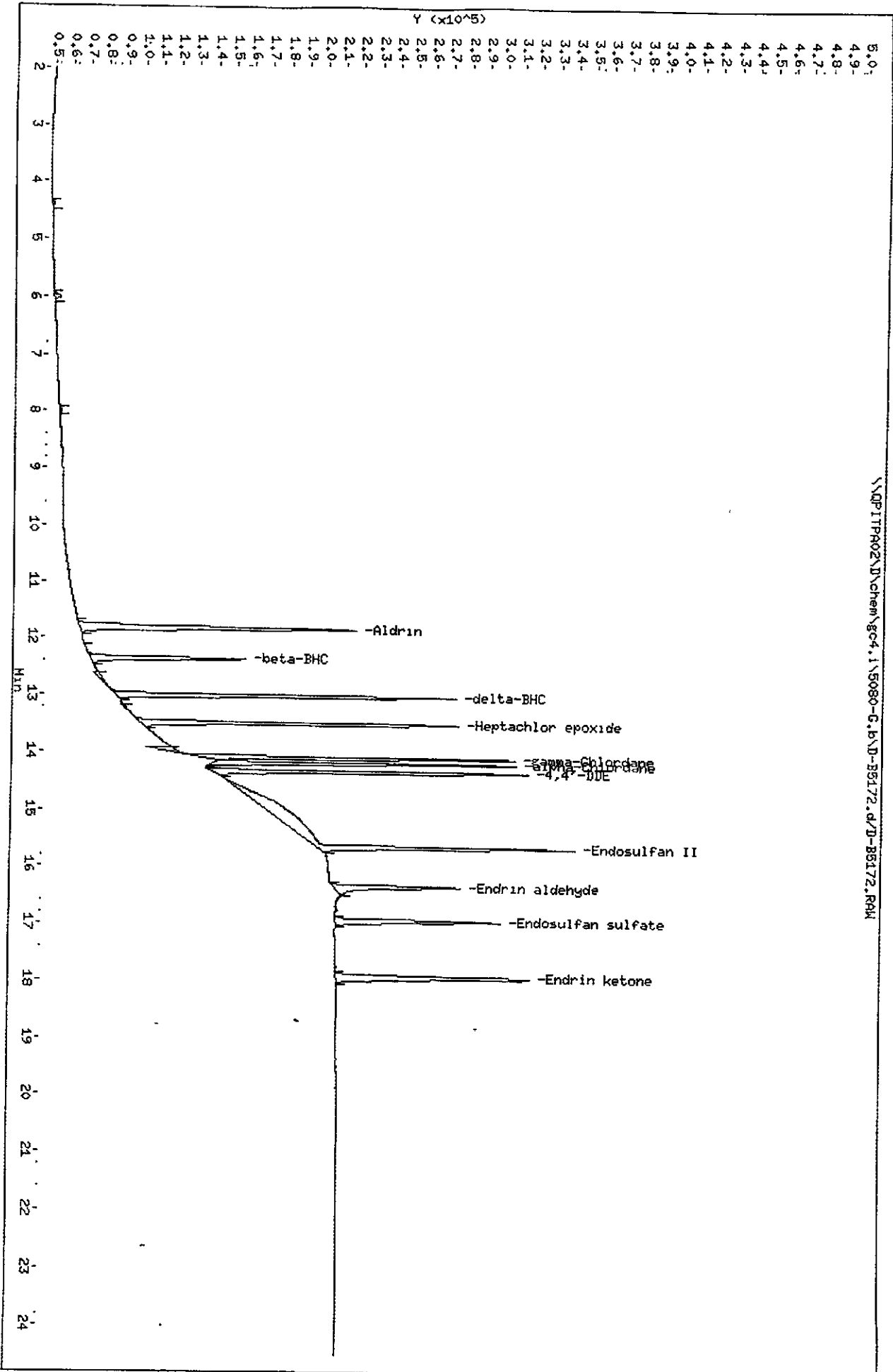
Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5172.d
Lab Smp Id: MHIGHB
Inj Date : 08-AUG-2000 01:07
Operator : 1891 Inst ID: gc4.i
Smp Info : MHIGHB,5080-G.b,,4-INDB.sub,,1,4
Misc Info : 190-84-10
Comment :
Method : \\QPITPA02\D\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
Cal Date : 08-AUG-2000 01:07 Cal File: D-B5172.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: PITPC085

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11 820	11 820	0 000	153113	0.05000	0 05482
7 beta-BHC	12 360	12 360	0.000	86254	0 05000	0.05170
8 delta BHC	13 000	13 000	0.000	188626	0 05000	0.05638
12 Heptachlor epoxide	13.473	13.473	0 000	176079	0 05000	0.05368
13 gamma-Chlordane	14 066	14 066	0 000	174570	0.05000	0 05210
14 alpha-Chlordane	14 160	14 166	-0.006	167853	0 05000	0.05130
16 4,4'-DDE	14 313	14 313	0.000	175132	0 05000	0 05253
22 Endosulfan II	15.626	15 626	0 000	142620	0 05000	0 04982
24 Endrin aldehyde	16 313	16 313	0 000	70141	0.05000	0 05310
26 Endosulfan sulfate	16 920	16 913	0.007	92379	0 05000	0.05359
27 Endrin ketone	17 906	17 906	0 000	107443	0 05000	0 05232

Data File: \\NPITPA02\Nchem\gc4.1\5080-G.b.D-85172.d
 Date: 08-06-2000 01:07
 Client ID:
 Sample Info: HHCHB,5080-G.b.,4-INDB,sub.,1,4
 Column phase: DB1.701

Instrument: gc4.1
 Operator: 1891
 Column diameter: 0.53

\\NPITPA02\Nchem\gc4.1\5080-G.b.D-85172.d\J-85172.RAW



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5173.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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.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: PITPC085

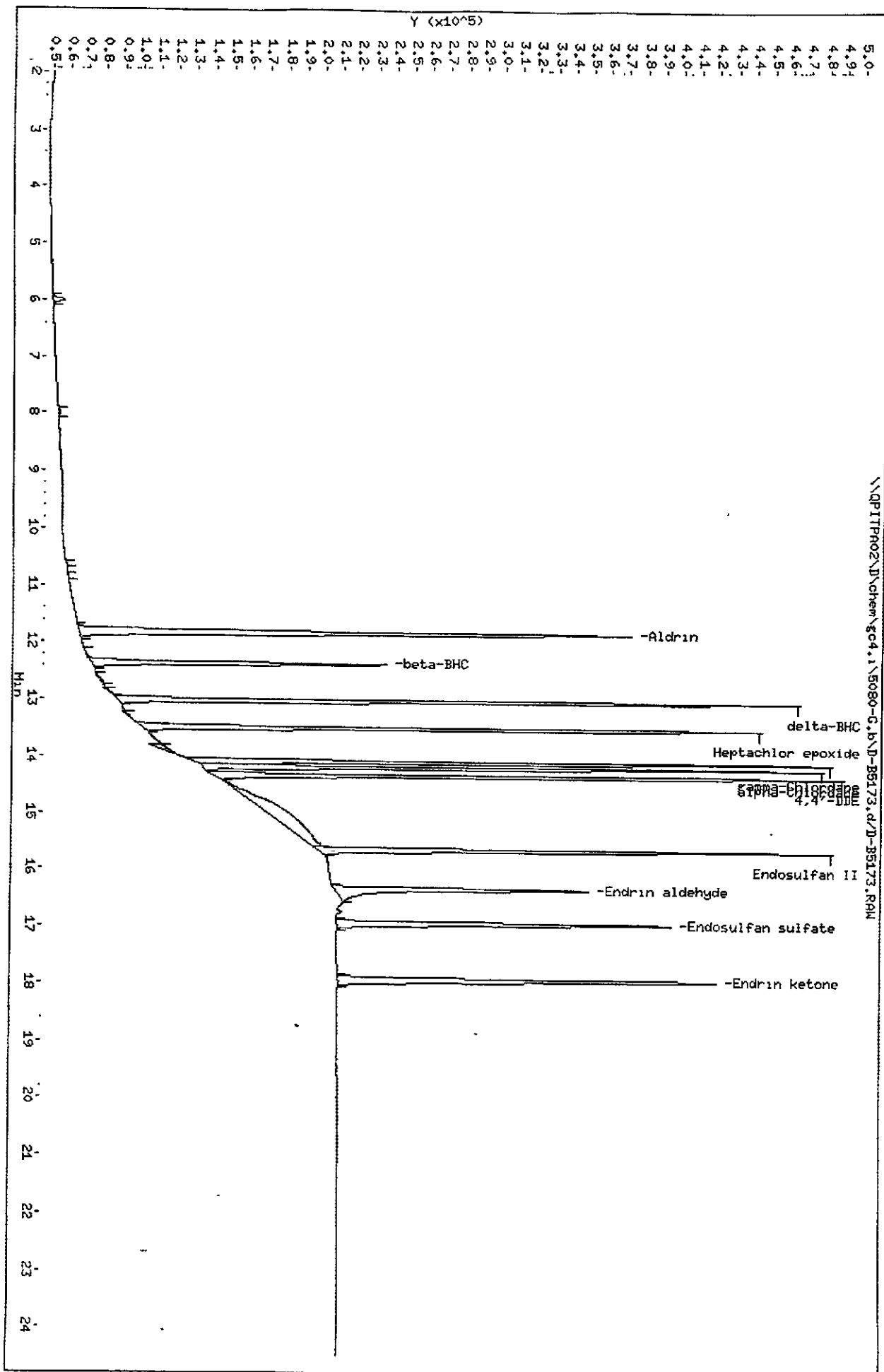
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11 820	11 820	0.000	306847	0 10000	0.1077(A)
7 beta-BHC	12 360	12.360	0 000	164046	0 10000	0 09866
8 delta-BHC	13 000	13.000	0 000	379398	0.10000	0 1104(A)
12 Heptachlor epoxide	13 473	13 473	0.000	344752	0 10000	0 1040(A)
13 gamma-Chlordane	14 066	14 066	0.000	355725	0 10000	0.1049(A)
14 alpha-Chlordane	14 166	14.166	0 000	345171	0 10000	0 1044(A)
16 4,4'-DDE	14 313	14.313	0 000	350629	0 10000	0 1041(A)
22 Endosulfan II	15 626	15 626	0 000	286290	0 10000	0 1000(A)
24 Endrin aldehyde	16.313	16 313	0 000	141855	0 10000	0 1058(A)
26 Endosulfan sulfate	16.913	16 913	0 000	186252	0 10000	0 1063(A)
27 Endrin ketone	17 906	17.906	0.000	210692	0.10000	0.1021(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \\QPITPRO2\chem\gc4.1\5080-G.b\D-B5173.d
Date: 08-AUG-2000 01:35
Client ID:
Sample Info: HICHS, 5080-G.b, 4-INDB.sub, 1.5
Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.1\5080-G.b\D-B5174.d
Lab Smp Id: 2ND A
Inj Date : 08-AUG-2000 02:03
Operator : 1891 Inst ID: gc4.1
Smp Info : 2ND A,5080-G.b,,INDA.sub,,2,3
Misc Info : 190-82-2
Comment :
Method : \\QPITPA02\D\chem\gc4.1\5080-G.b\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj 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: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro m-xylene	5.733	5.720	0.013	44383	0.02500	0.01941
5 alpha-BHC	8.546	8.546	0.000	58751	0.02500	0.01917
6 gamma-BHC (Lindane)	9.966	9.960	0.006	51828	0.02500	0.01954
10 Heptachlor	10.860	10.860	0.000	56981	0.02500	0.01938
15 Endosulfan I	14.006	14.006	0.000	63340	0.02500	0.01982
17 Dieldrin	14.593	14.600	-0.007	135880	0.02500	0.04002
20 Endrin	14.913	14.913	0.000	104632	0.02500	0.03309
21 4,4'-DDD	15.466	15.466	0.000	97158	0.02500	0.03952
23 4,4'-DDT	15.766	15.766	0.000	99074	0.02500	0.03987
25 Methoxychlor	16.826	16.833	-0.007	234483	0.05000	0.2008 (A)
\$ 30 Decachlorobiphenyl	20.260	20.280	-0.020	68326	0.02500	0.04040

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Data File: \NPI\FA02\chem\gc4.1\5080-G.b\J-B5174.d
Date : 08-AUG-2000 02:03

Client ID:

Sample Info: 2ND A,5080-G.b,,INDA,sub,2,3

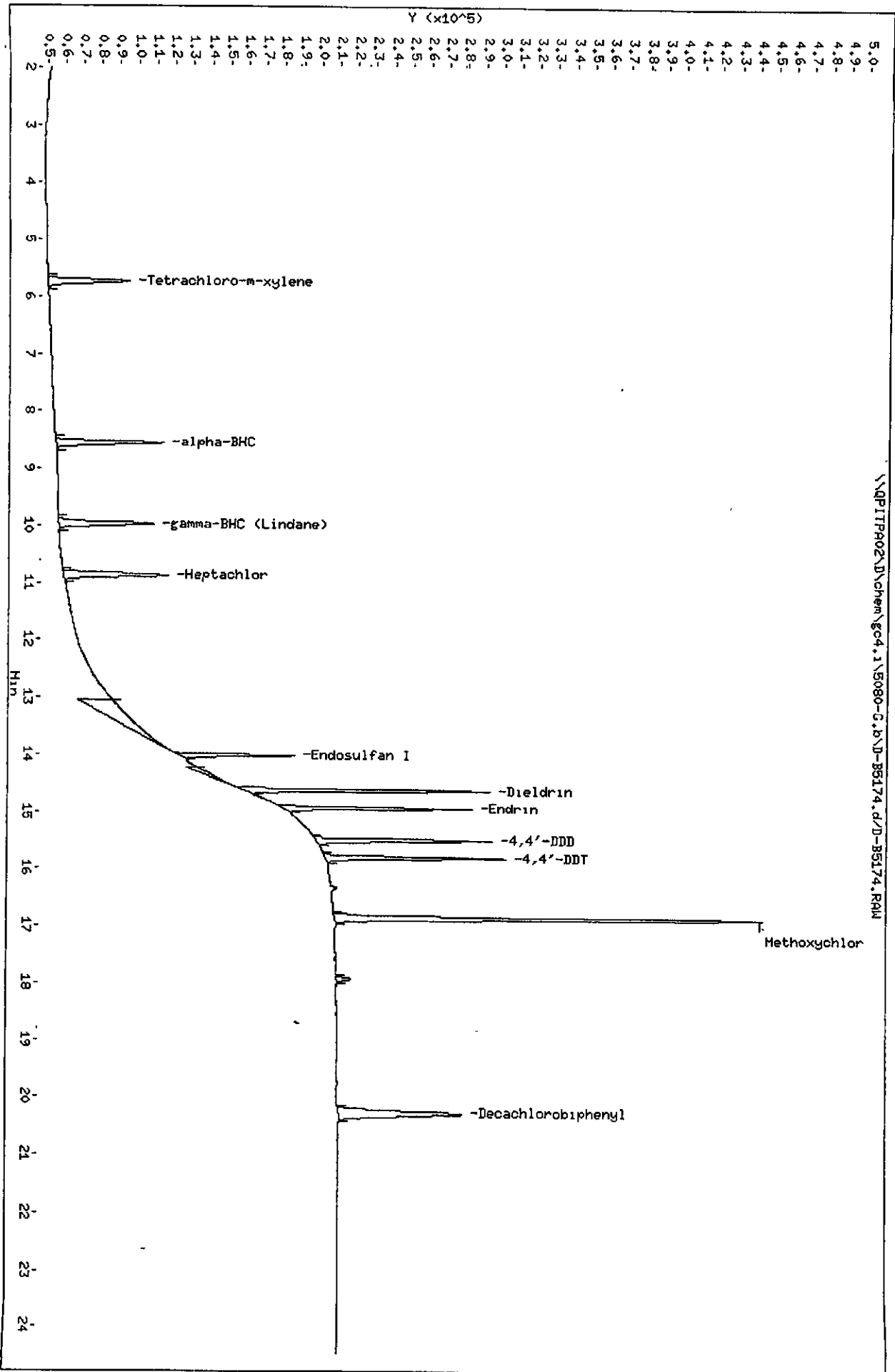
Column phase: DB1701

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53

667 355



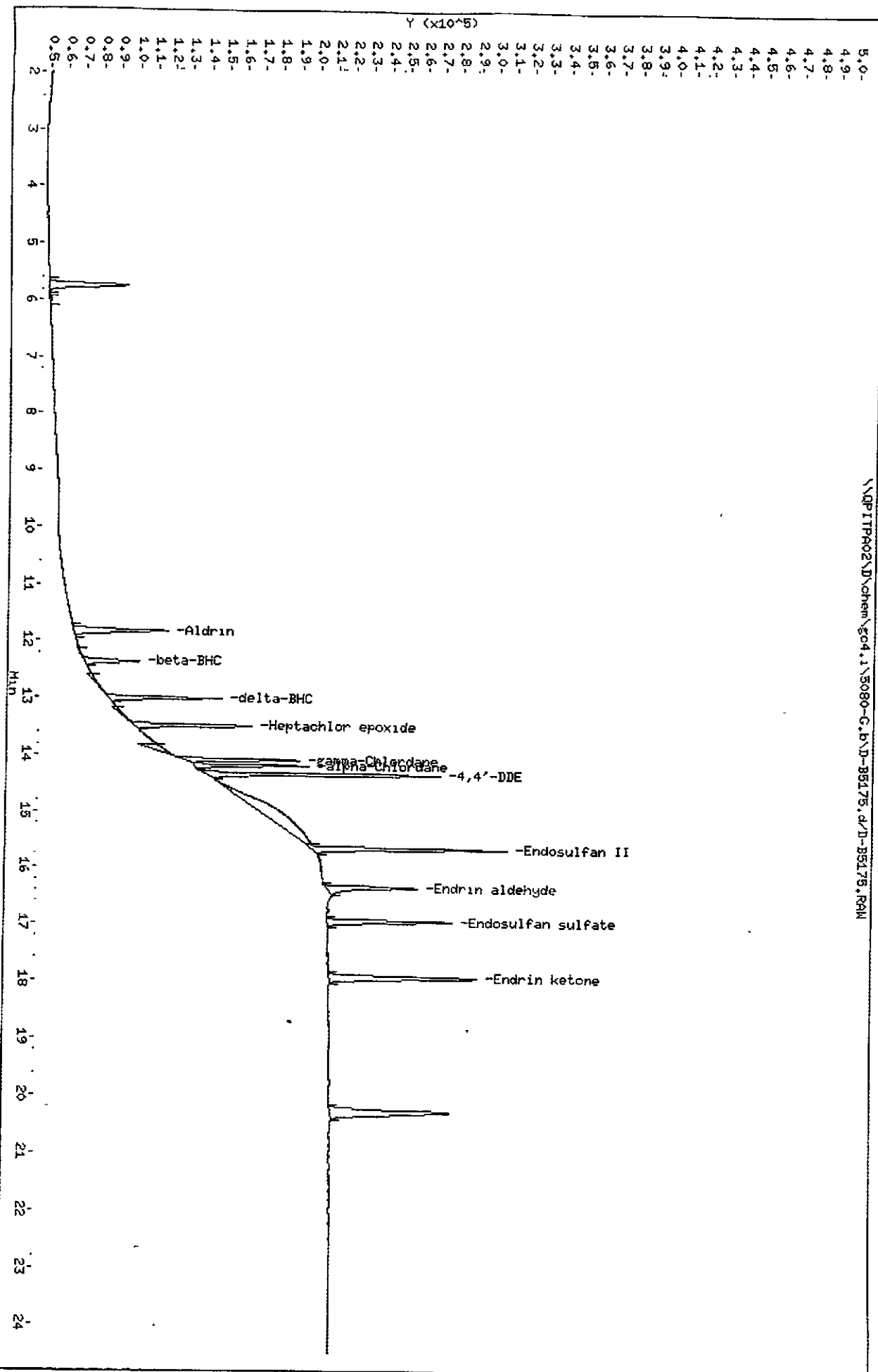
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5175.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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj 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: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.820	11.820	0.000	53398	0.02500	0.01875
7 beta-BHC	12.360	12.360	0.000	31209	0.02500	0.01877
8 delta-BHC	13.000	13.000	0.000	63116	0.02500	0.01837
12 Heptachlor epoxide	13.473	13.473	0.000	65691	0.02500	0.01982
13 gamma-Chlordane	14.066	14.066	0.000	64462	0.02500	0.01900
14 alpha-Chlordane	14.166	14.166	0.000	63421	0.02500	0.01917
16 4,4'-DDE	14.313	14.313	0.000	131487	0.02500	0.03904
22 Endosulfan II	15.626	15.626	0.000	109592	0.02500	0.03828
24 Endrin aldehyde	16.313	16.313	0.000	50887	0.02500	0.03796
26 Endosulfan sulfate	16.920	16.913	0.007	69841	0.02500	0.03987
27 Endrin ketone	17.913	17.906	0.007	83392	0.02500	0.04040

Data File: \\QIPITPA02\chem\gc04.1\5080-G.b.D-B5175.d
 Date : 08-AUG-2000 02:30
 Client ID:
 Sample Info: 2ND B,5080-G.b., INDE.sub,,2,3
 Column phase: DB1701

Instrument: gc04.1
 Operator: 1891
 Column diameter: 0.53



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5176.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\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj 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: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5 746	5 720	0 026	45881	0 02007	0 02007(R)
16 4,4'-DDE				Compound Not Detected		
20 Endrin	14 913	14 913	0 000	70054	0 02216	0 02216
21 4,4'-DDD				Compound Not Detected		
23 4,4' DDT	15 766	15 766	0.000	61493	0.02475	0 02475
24 Endrin aldehyde				Compound Not Detected		
27 Endrin ketone				Compound Not Detected		
\$ 30 Decachlorobiphenyl	20 266	20 280	-0 014	34851	0.02061	0 02061(R)

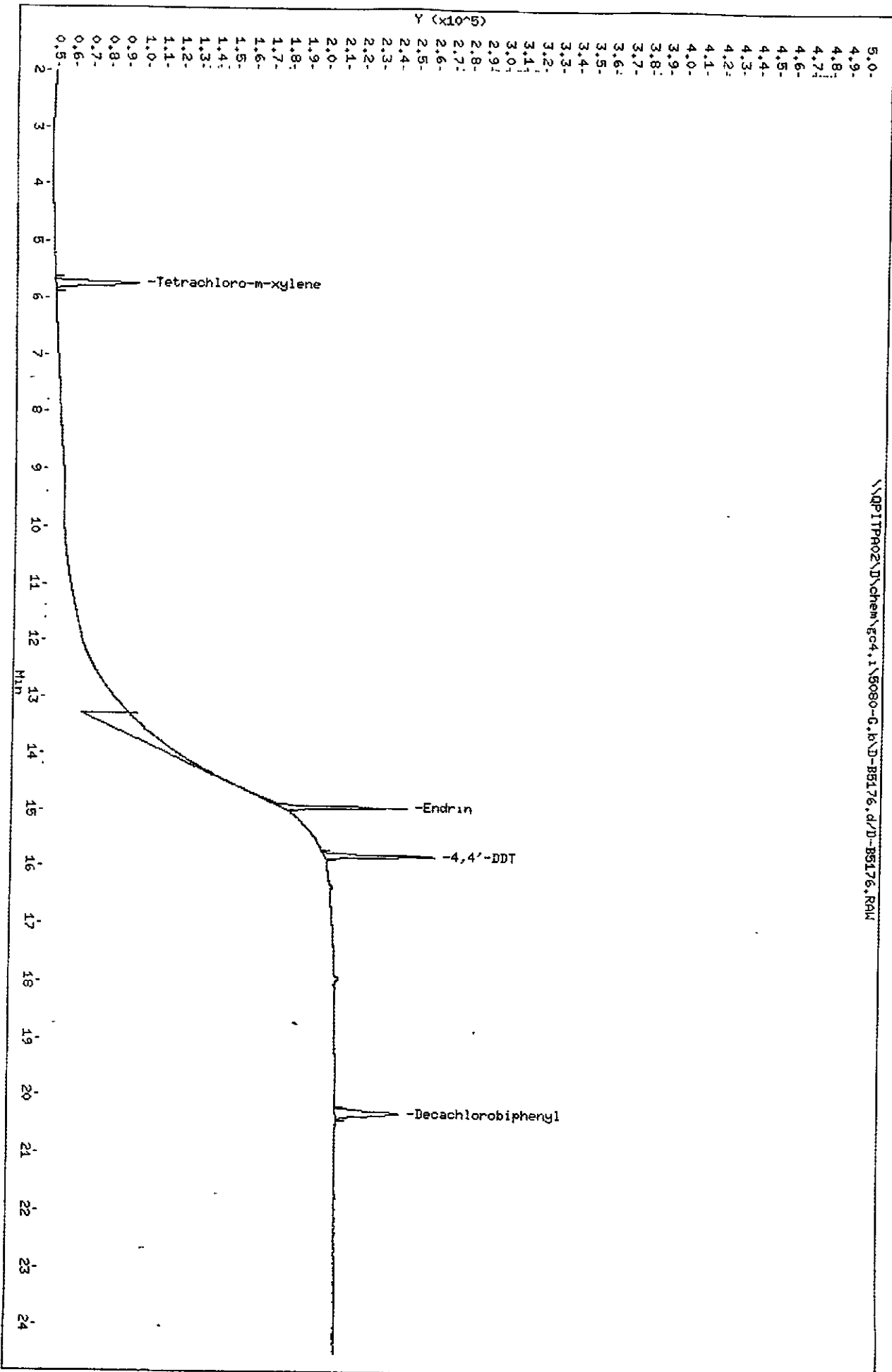
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\QPI1P02\1\chem\gc4.1\5080-G.b\D-B5176.d
Date : 08-AUG-2000 02:58
Client ID:
Sample Info: EVALB,5080-G.b,,EVALBR,sub,3,1
Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53

\\QPI1P02\1\chem\gc4.1\5080-G.b\D-B5176.d\1-B5176.RAW



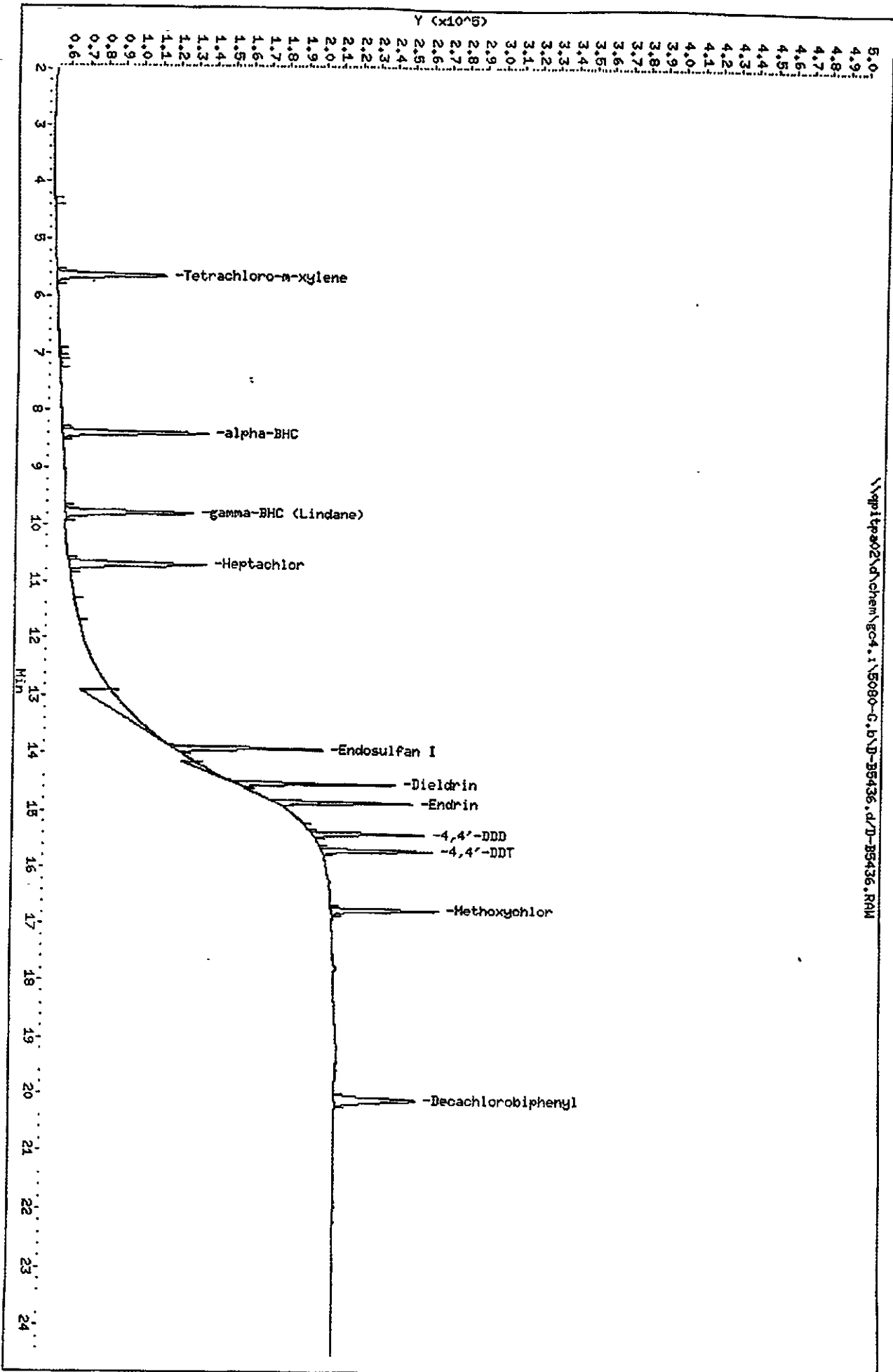
STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5436.d
Lab Smp Id: MEDA
Inj Date : 17-AUG-2000 21:25
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,5080-G.b,,INDA.sub,,2,3
Misc Info : 190-84-3
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 18-Aug-2000 09:52 matkol 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: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	5.640	5.640	0.000	60091	0.02500	0.02628
5 alpha-BHC	8.400	8.406	-0.006	80275	0.02500	0.02620
6 gamma-BHC (Lindane)	9.786	9.793	-0.007	70855	0.02500	0.02672
10 Heptachlor	10.706	10.713	-0.007	75454	0.02500	0.02566
15 Endosulfan I	13.920	13.920	0.000	81522	0.02500	0.02551
17 Dieldrin	14.513	14.520	-0.007	89303	0.02500	0.02630
20 Endrin	14.833	14.833	0.000	76609	0.02500	0.02423
21 4,4'-DDD	15.380	15.386	-0.006	62772	0.02500	0.02553
23 4,4'-DDT	15.673	15.680	-0.007	61799	0.02500	0.02487
25 Methoxychlor	16.720	16.726	-0.006	59550	0.05000	0.05100
\$ 30 Decachlorobiphenyl	20.080	20.093	-0.013	44797	0.02500	0.02649

Data File: \\ppltpa02\chem\gc04.1\5080-G.b\D-B5436.d
Date: 17-AUG-2000 21:25
Client ID:
Sample Info: HEDN,5080-G.b.,INDA.sub,,2,3
Column phase: DB1701

Instrument: gc04.i
Operator: 1891
Column diameter: 0.53



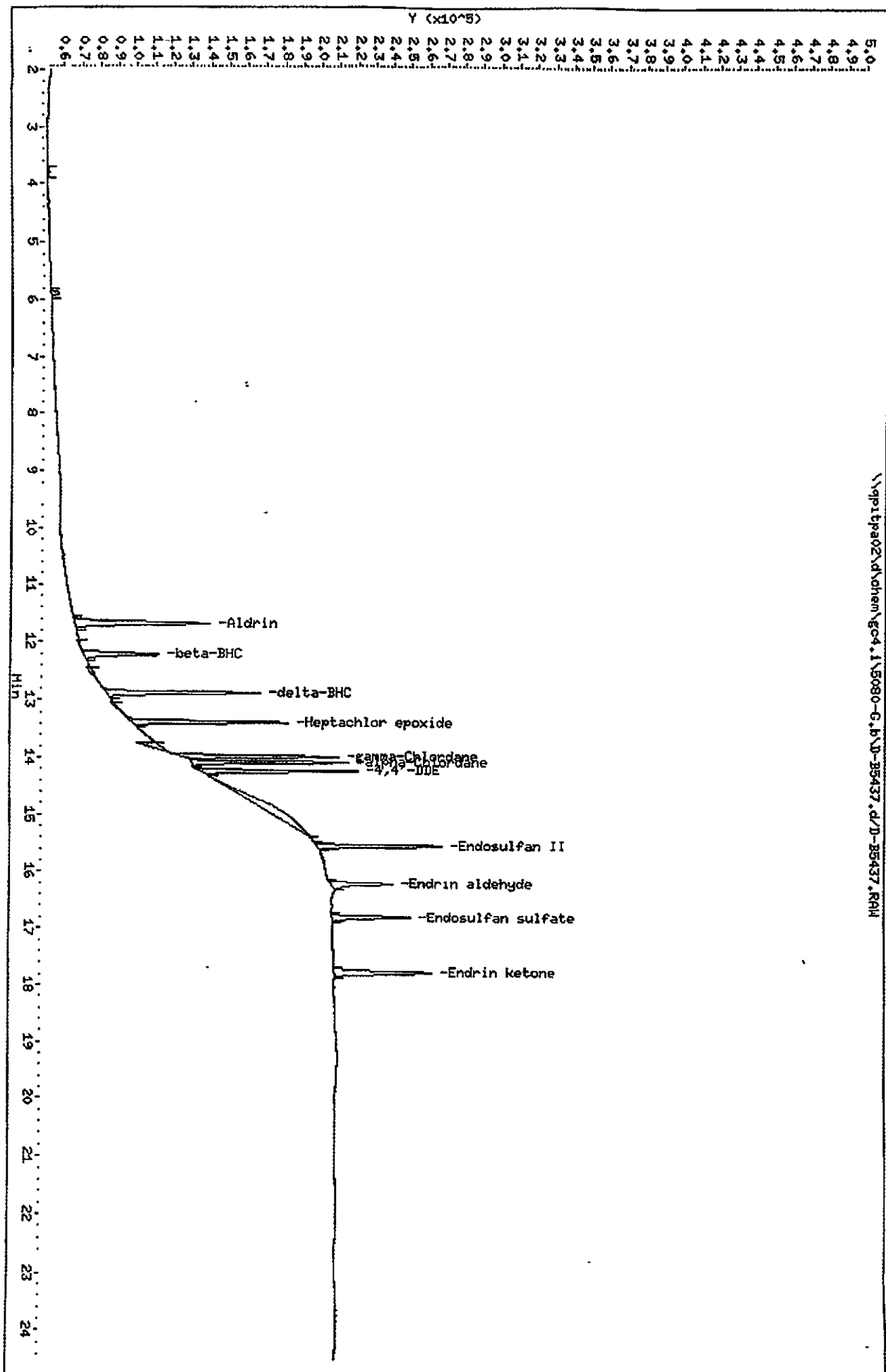
STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5437.d
Lab Smp Id: MEDB
Inj Date : 17-AUG-2000 21:53
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,5080-G.b,,INDB.sub,,2,3
Misc Info : 190-84-9
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 18-Aug-2000 09:52 matkol 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: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
-----	--	-----	-----	-----	-----	-----
11 Aldrin	11.673	11.680	-0.007	74117	0.02500	0.02602
7 beta-BHC	12.213	12.220	-0.007	41638	0.02500	0.02504
8 delta-BHC	12.873	12.886	-0.013	84132	0.02500	0.02449
12 Heptachlor epoxide	13.373	13.373	0.000	84682	0.02500	0.02556
13 gamma-Chlordane	13.973	13.980	-0.007	85915	0.02500	0.02533
14 alpha-Chlordane	14.073	14.080	-0.007	85284	0.02500	0.02578
16 4,4'-DDE	14.226	14.233	-0.007	86210	0.02500	0.02560
22 Endosulfan II	15.533	15.540	-0.007	69268	0.02500	0.02420
24 Endrin aldehyde	16.200	16.213	-0.013	34250	0.02500	0.02555
26 Endosulfan sulfate	16.793	16.800	-0.007	43662	0.02500	0.02493
27 Endrin ketone	17.760	17.773	-0.013	54274	0.02500	0.02629

Data File: \\pittpa02\dychem\gc04.1\5080-G.b\D-B5437.d
Date: 17-AUG-2000 21:53
Client ID:
Sample Info: HEDB, 5080-G.b., INDB, sub., 2,3
Column phase: DB1701

Instrument: gc04.1
Operator: 1891
Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5438.d
Report Date: 18-Aug-2000 10:13

667 364

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5438.d
Lab Smp Id: EVALB
Inj Date : 17-AUG-2000 22:20
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\PESTB.m
Meth Date : 18-Aug-2000 09:52 matkol 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: PITPC044

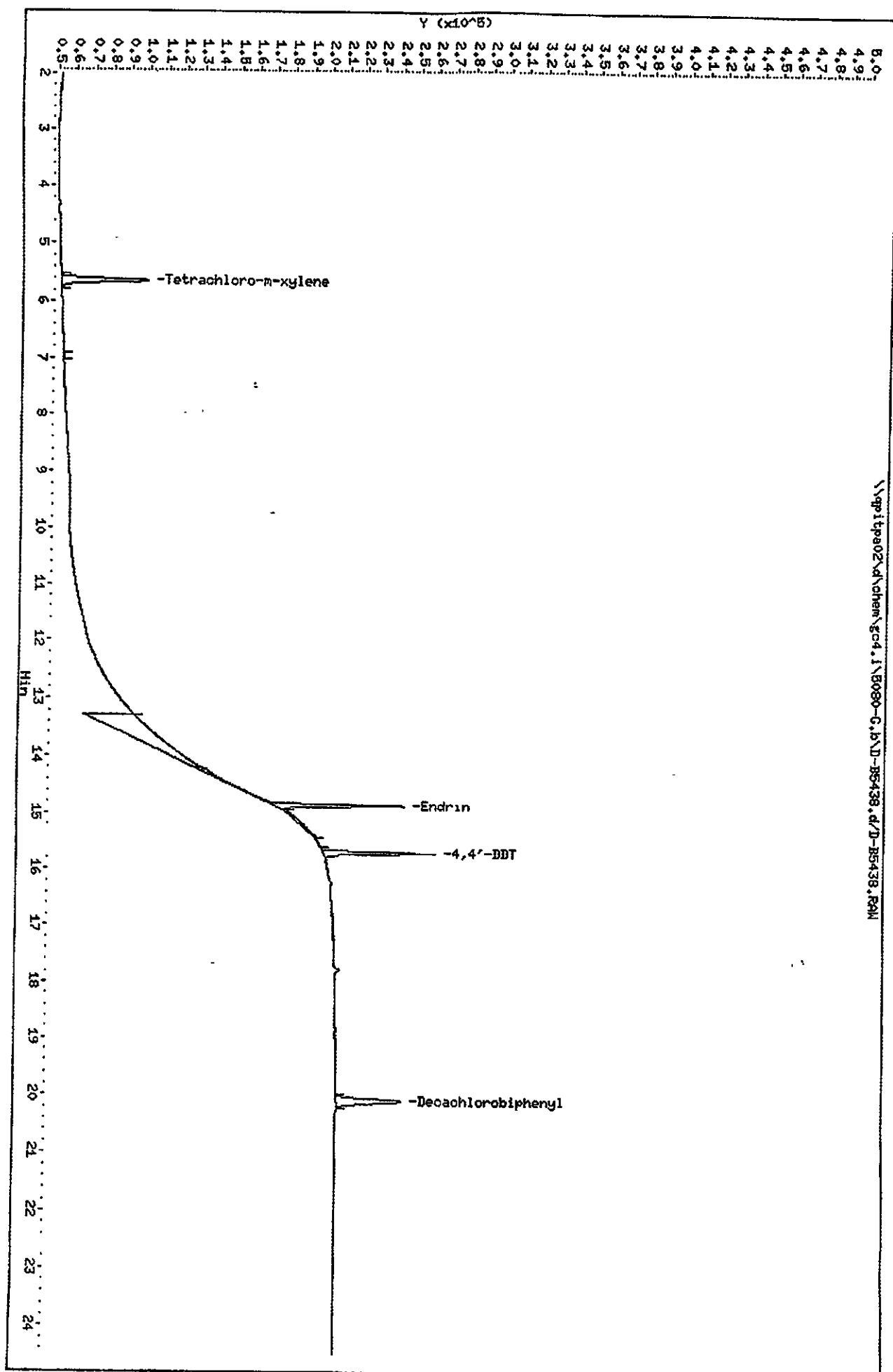
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5.640	5.640	0.000	47754	0.02089	0.02089(R)
16 4,4'-DDE				Compound Not Detected.		
20 Endrin	14.833	14.833	0.000	71824	0.02272	0.02272
21 4,4'-DDD				Compound Not Detected.		
23 4,4'-DDT	15.673	15.680	-0.007	61498	0.02475	0.02475
24 Endrin aldehyde				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected.		
\$ 30 Decachlorobiphenyl	20.080	20.093	-0.013	36082	0.02134	0.02134(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\ppltp02\chem\gc4.i\B080-G.b\B-B5438.d
Date: 17-AUG-2000 22:20
Client ID:
Sample Info: EVAL.B, B080-G.b, EVAL.BR, sub, 3,1
Column phase: DB1701

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5459.d
Report Date: 18-Aug-2000 10:17

667 366

STL - Pittsburgh

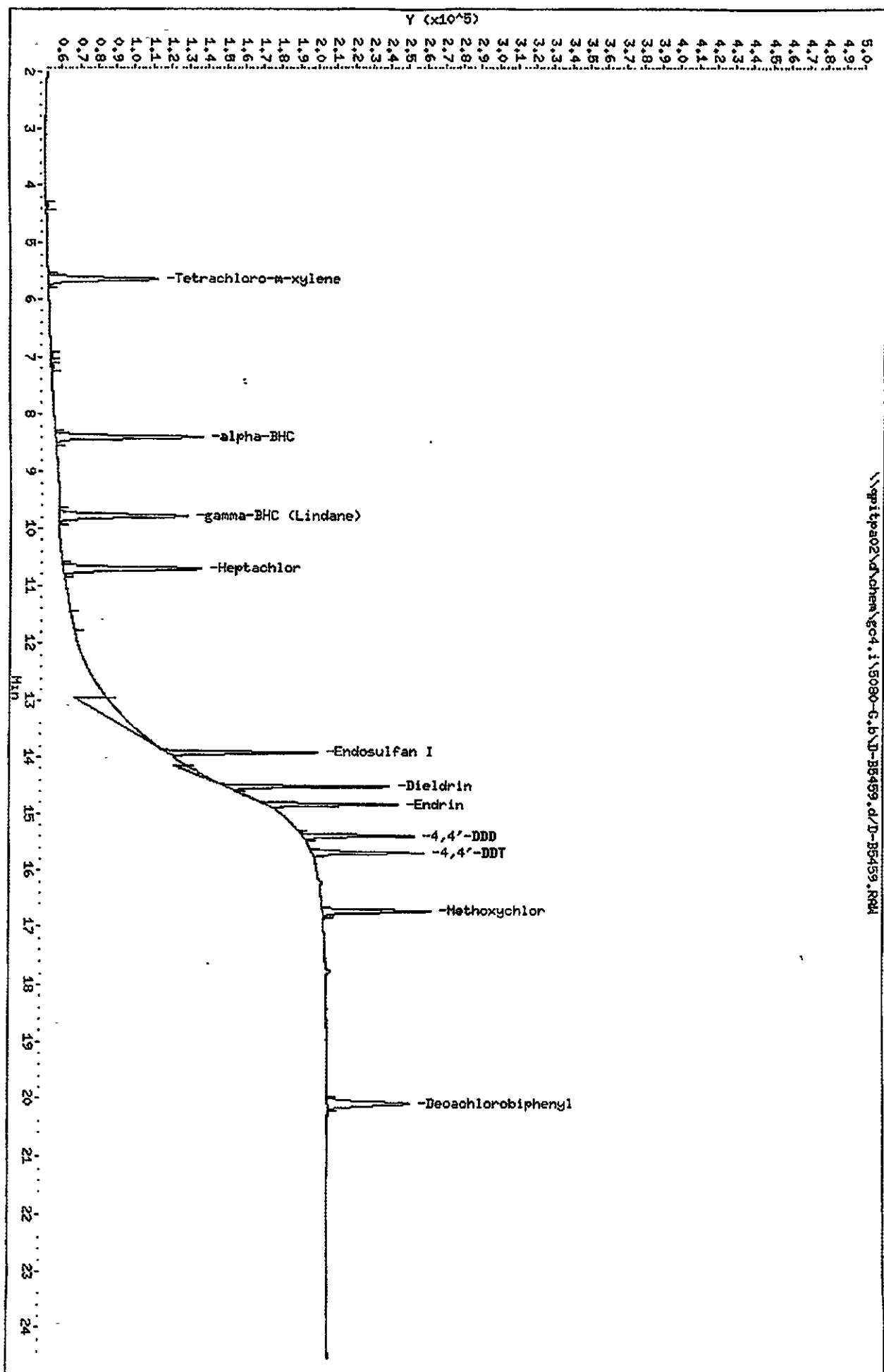
Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5459.d
Lab Smp Id: MEDA
Inj Date : 18-AUG-2000 08:03
Operator : 1891
Smp Info : MEDA,5080-G.b,,INDA.sub,,2,3
Misc Info : 190-84-3
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 18-Aug-2000 09:52 matkol
Cal Date : 08-AUG-2000 01:35
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC044

Inst ID: gc4.i
Quant Type: ESTD
Cal File: D-B5173.d
Continuing Calibration Sample
Compound Sublist: INDA.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	..	*****	*****	*****	*****	*****
\$ 1 Tetrachloro-m-xylene	5.640	5.640	0.000	59929	0.02500	0.02621
5 alpha-BHC	8.393	8.406	-0.013	80705	0.02500	0.02634
6 gamma-BHC (Lindane)	9.786	9.793	-0.007	70739	0.02500	0.02667
10 Heptachlor	10.700	10.713	-0.013	76028	0.02500	0.02586
15 Endosulfan I	13.913	13.920	-0.007	82257	0.02500	0.02574
17 Dieldrin	14.513	14.520	-0.007	89127	0.02500	0.02625
20 Endrin	14.833	14.833	0.000	72079	0.02500	0.02280
21 4,4'-DDD	15.380	15.386	-0.006	61133	0.02500	0.02486
23 4,4'-DDT	15.673	15.680	-0.007	61294	0.02500	0.02467
25 Methoxychlor	16.713	16.726	-0.013	59134	0.05000	0.05064
\$ 30 Decachlorobiphenyl	20.080	20.093	-0.013	44647	0.02500	0.02640

Data File: \\ppitpa02\chem\gc4.i\5080-G.b\D-B5459.d
 Date: 18-AUG-2000 08:03
 Client ID:
 Sample Info: HEDR,5080-G.b,,INDR,sub,,2,3
 Column phase: DB1701

Instrument: gc4.i
 Operator: 1891
 Column diameter: 0.53



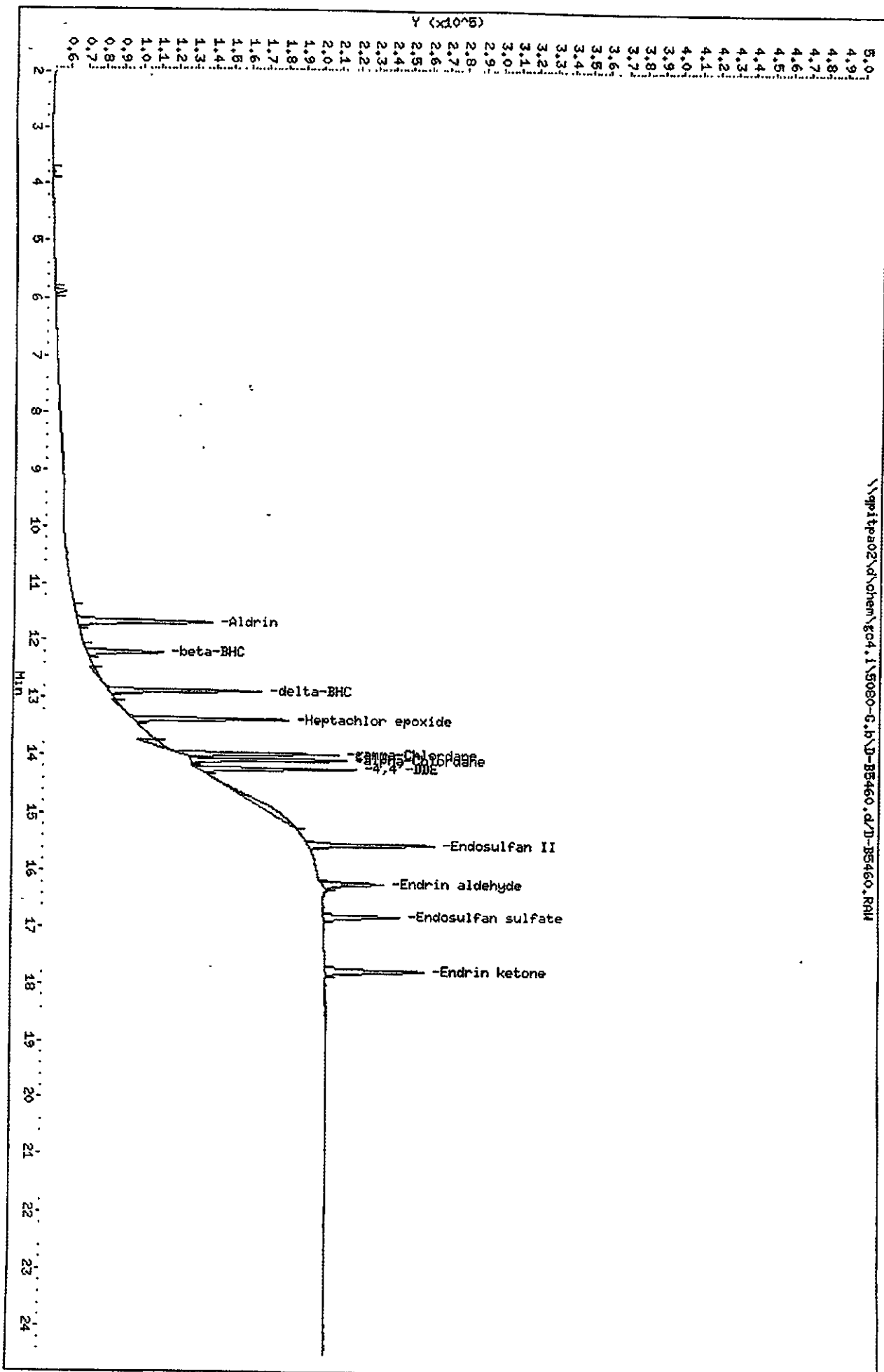
STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5460.d
Lab Smp Id: MEDB
Inj Date : 18-AUG-2000 08:31
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB, 5080-G.b, , INDB.sub, , 2, 3
Misc Info : 190-84-9
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 20-Aug-2000 13:36 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)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.673	11.680	-0.007	74599	0.02500	0.02619
7 beta-BHC	12.206	12.220	-0.014	42577	0.02500	0.02561
8 delta-BHC	12.873	12.886	-0.013	84570	0.02500	0.02462
12 Heptachlor epoxide	13.366	13.373	-0.007	86529	0.02500	0.02611
13 gamma-Chlordane	13.973	13.980	-0.007	87936	0.02500	0.02592
14 alpha-Chlordane	14.073	14.080	-0.007	86895	0.02500	0.02627
16 4,4'-DDE	14.226	14.233	-0.007	87405	0.02500	0.02595
22 Endosulfan II	15.526	15.540	-0.014	70200	0.02500	0.02452
24 Endrin aldehyde	16.200	16.213	-0.013	34503	0.02500	0.02574
26 Endosulfan sulfate	16.786	16.800	-0.014	42866	0.02500	0.02447
27 Endrin ketone	17.760	17.773	-0.013	54427	0.02500	0.02636

Data File: \\ppitpa02\chem\gc4.1\5080-G.b\D-B5460.d
 Date: 18-AUG-2000 08:31
 Client ID:
 Sample Info: HEDB,5080-G.b,,INDB.sub,,2,3
 Column Phase: DB1701

Instrument: gc4.1
 Operator: 1891
 Column diameter: 0.53



STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5461.d
Lab Smp Id: EVALB
Inj Date : 18-AUG-2000 08:59
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\PESTB.m
Meth Date : 20-Aug-2000 13:36 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

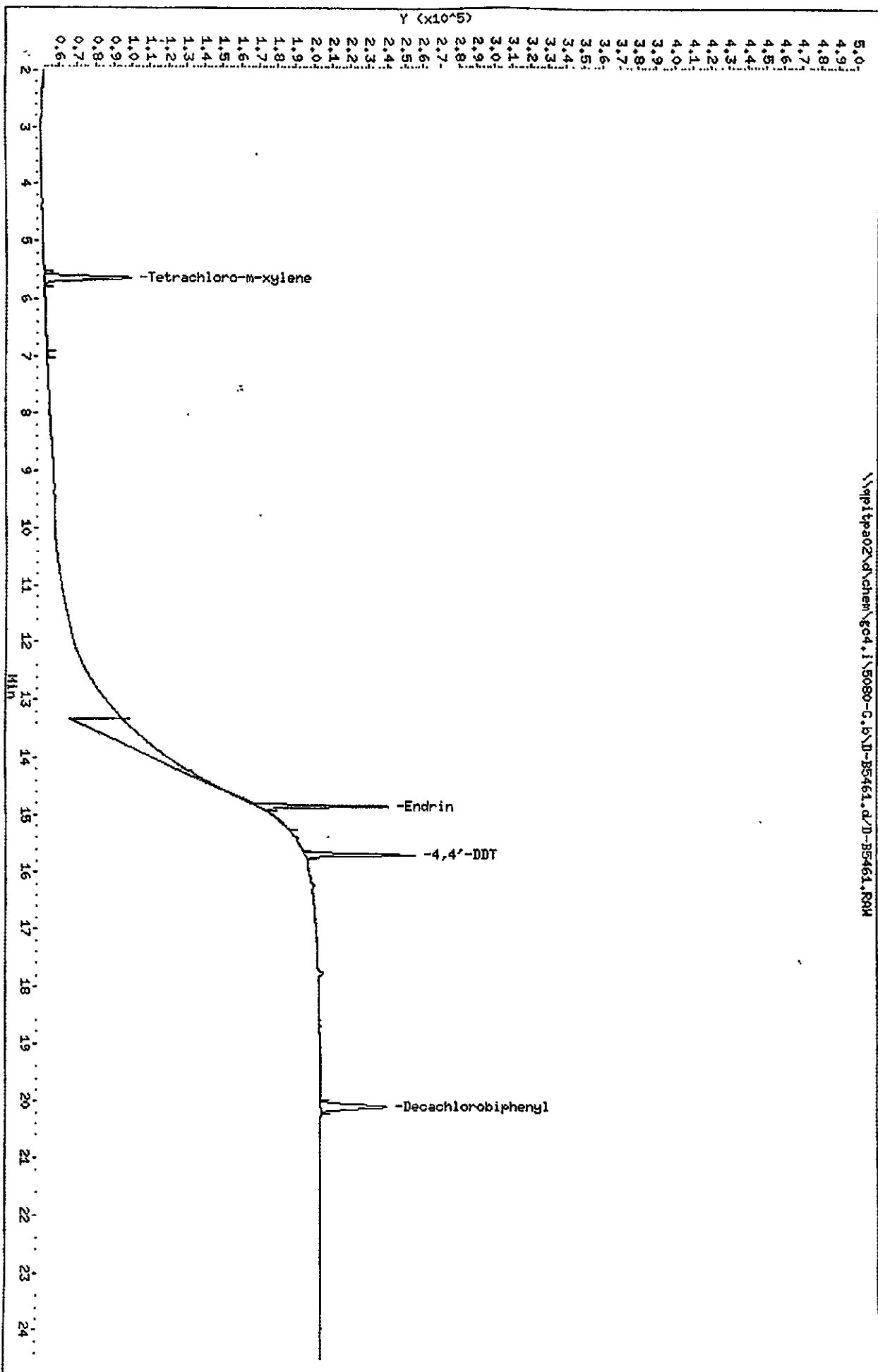
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.640	5.640	0.000	47504	0.02078	0.02078(R)
16 4,4'-DDE	Compound Not Detected.					
20 Endrin	14.833	14.833	0.000	70618	0.02233	0.02233
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.673	15.680	-0.007	60340	0.02428	0.02428
24 Endrin aldehyde	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected.					
\$ 30 Decachlorobiphenyl	20.080	20.093	-0.013	35799	0.02117	0.02117(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\np1tpa02\chem\gc4.i\5080-G.b\D-B5461.d
Date: 18-AUG-2000 08:59
Client ID:
Sample Info: EVRLB,5080-G.b,EVRLB,sub,3,1
Column phase: DB1701

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53



STL - Pittsburgh

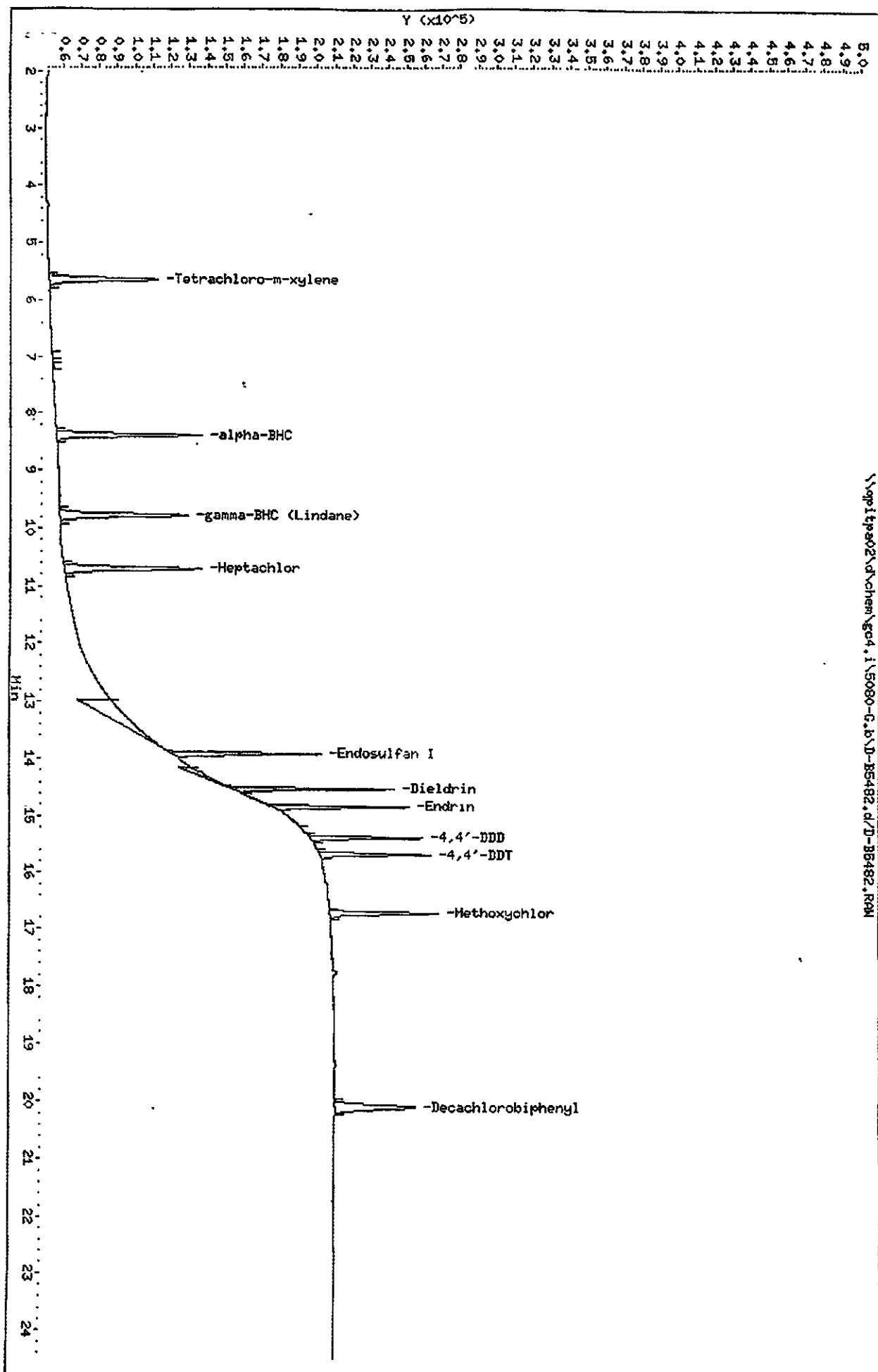
Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5482.d
Lab Smp Id: MEDA
Inj Date : 18-AUG-2000 18:42
Operator : 1891
Smp Info : MEDA, 5080-G.b,, INDA.sub,, 2, 3
Misc Info : 190-84-3
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 20-Aug-2000 13:36 gc
Cal Date : 08-AUG-2000 01:35
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC043

Inst ID: gc4.i
Quant Type: ESTD
Cal File: D-B5173.d
Continuing Calibration Sample
Compound Sublist: INDA.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.640	5.640	0.000	60045	0.02500	0.02626
5 alpha-BHC	8.393	8.406	-0.013	80768	0.02500	0.02636
6 gamma-BHC (Lindane)	9.780	9.793	-0.013	71128	0.02500	0.02682
10 Heptachlor	10.700	10.713	-0.013	76121	0.02500	0.02589
15 Endosulfan I	13.913	13.920	-0.007	82810	0.02500	0.02591
17 Dieldrin	14.513	14.520	-0.007	89602	0.02500	0.02639
20 Endrin	14.826	14.833	-0.007	76172	0.02500	0.02409
21 4,4'-DDD	15.373	15.386	-0.013	62824	0.02500	0.02556
23 4,4'-DDT	15.673	15.680	-0.007	61551	0.02500	0.02477
25 Methoxychlor	16.713	16.726	-0.013	60725	0.05000	0.05200
\$ 30 Decachlorobiphenyl	20.080	20.093	-0.013	45262	0.02500	0.02676

Data File: \\spitpa02\chem\gc4.1\5080-G.b\D-B5482.d
 Date: 18-AUG-2000 18:42
 Client ID:
 Sample Info: MEDA, 5080-G.b, INDA, sub, 2,3
 Column phase: DBL701

Instrument: gc4.1
 Operator: 1891
 Column diameter: 0.53



STL - Pittsburgh

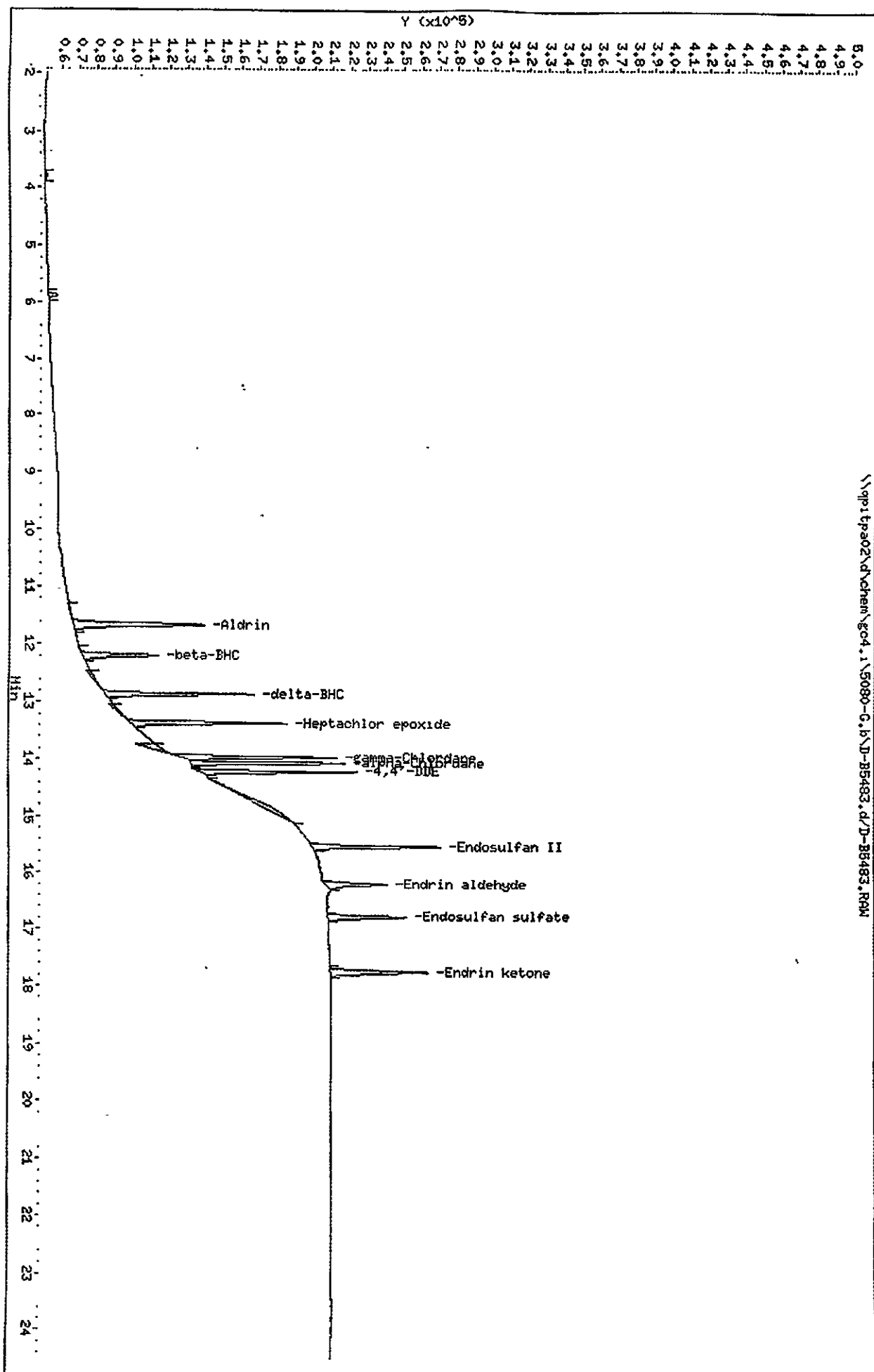
Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5483.d
Lab Smp Id: MEDB
Inj Date : 18-AUG-2000 19:10
Operator : 1891
Smp Info : MEDB, 5080-G.b, , INDB.sub, , 2, 3
Misc Info : 190-84-9
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 20-Aug-2000 13:36 gc
Cal Date : 08-AUG-2000 01:35
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC043

Inst ID: gc4.i
Quant Type: ESTD
Cal File: D-B5173.d
Continuing Calibration Sample
Compound Sublist: INDB.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.666	11.680	-0.014	72762	0.02500	0.02555
7 beta-BHC	12.200	12.220	-0.020	42216	0.02500	0.02539
8 delta-BHC	12.866	12.886	-0.020	82926	0.02500	0.02414
12 Heptachlor epoxide	13.366	13.373	-0.007	86728	0.02500	0.02617
13 gamma-Chlordane	13.973	13.980	-0.007	86583	0.02500	0.02552
14 alpha-Chlordane	14.073	14.080	-0.007	86061	0.02500	0.02602
16 4,4'-DDE	14.226	14.233	-0.007	87879	0.02500	0.02609
22 Endosulfan II	15.526	15.540	-0.014	70995	0.02500	0.02480
24 Endrin aldehyde	16.200	16.213	-0.013	34112	0.02500	0.02545
26 Endosulfan sulfate	16.786	16.800	-0.014	43524	0.02500	0.02485
27 Endrin ketone	17.753	17.773	-0.020	54051	0.02500	0.02618

Data File: \\pp1tpa02\chem\gc4.1\5080-G.b\B-B483.d
Date: 18-AUG-2000 19:10
Client ID:
Sample Info: HEDB,5080-G.b,,INDB,sub,,2,3
Column phase: DB1.701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



667 376

**PESTICIDE
QC DATA**

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

667 377

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

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

Lab Sample ID: C0H160000 484

Sample WT/Vol: 100 / mL
Work Order: DJ0KG101
Dilution factor: 1

Date Received: 08/11/00
Date Extracted: 08/16/00
Date Analyzed: 08/18/00

QC Batch: 0229484

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

FORM I

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5457.d
 Lab Smp Id: DJ0KG101 Client Smp ID: PBLK9484
 Inj Date : 18-AUG-2000 07:08
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DJ0KG101,5080-G.b,,PEST.sub,,3,
 Misc Info : 110155BLK
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
 Meth Date : 18-Aug-2000 09:52 matkol 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: PITPC044

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	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.633	5.640	-0.007	43482	0.01902	0 001902 (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.					

667 379

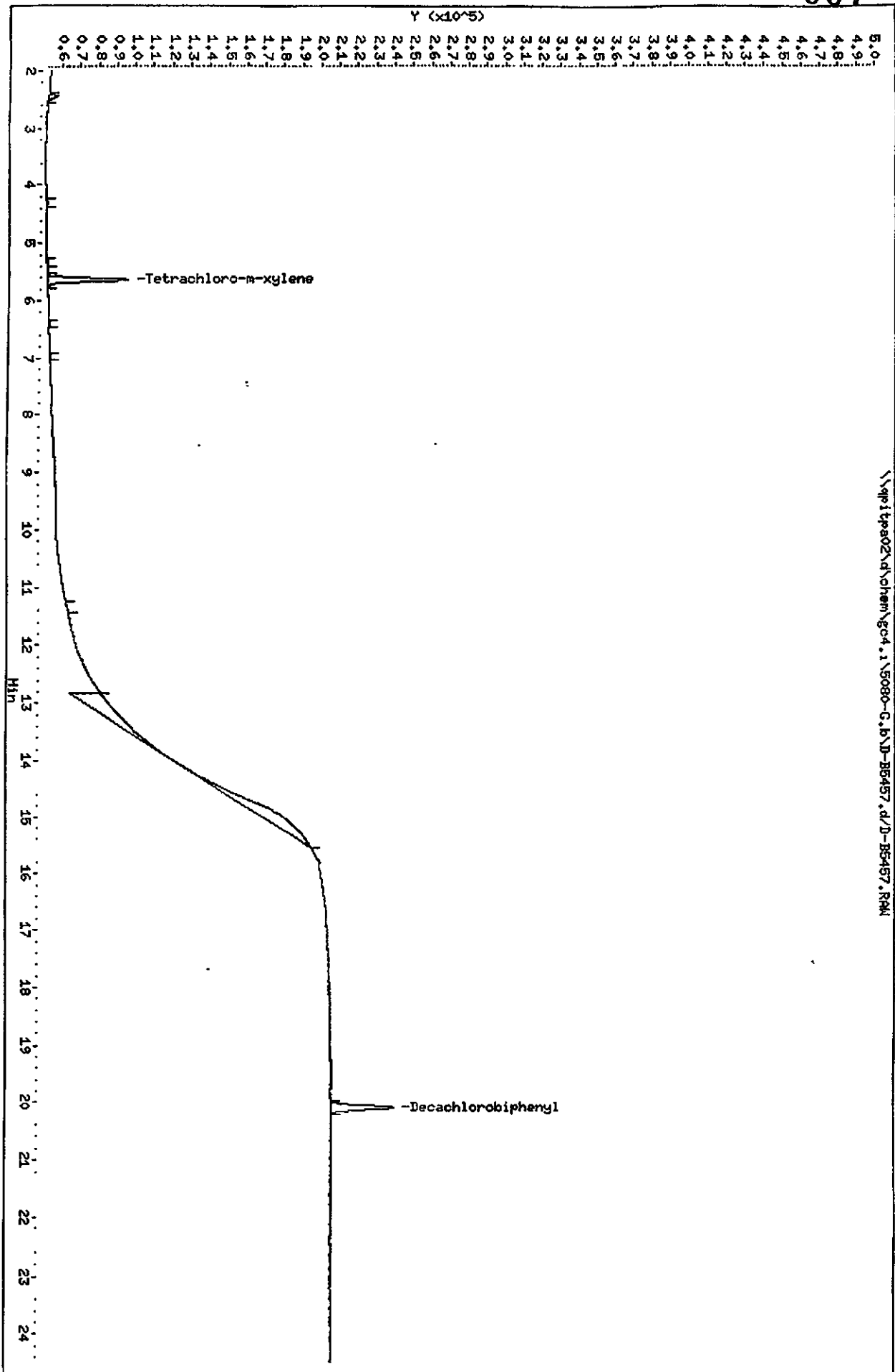
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
-----	---	-----	-----	-----	-----	-----
18 Toxaphene				Compound Not Detected.		
21 4,4'-DDD				Compound Not Detected		
22 Endosulfan II				Compound Not Detected.		
23 4,4'-DDT				Compound Not Detected.		
24 Endrin aldehyde				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	20.080	20.093	-0.013	34128	0.02018	0.002018 (aR)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\qpltpa02\chem\gc04.1\5080-G.b.D-B5457.d
Date: 18-AUG-2000 07:08
Client ID: PBLX9484
Sample Info: DJKGL01, B080-G.b., PEST, sub, 3,
Volume Injected (uL): 1.0
Column Phase: DB1701

Instrument: gc04.i
Operator: 1891
Column diameter: 0.53



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

667 381

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

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

Lab Sample ID: C0H160000 484

Sample WT/Vol: 100 / mL
Work Order: DJ0KG102
Dilution factor: 1

Date Received: 08/11/00
Date Extracted: 08/16/00
Date Analyzed: 08/18/00

QC Batch: 0229484

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00196	
76-44-8	Heptachlor	0.00216	
1024-57-3	Heptachlor epoxide	0.00221	
58-89-9	Lindane	0.00159	
72-43-5	Methoxychlor	0.00234	

FORM I

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5080-G.b\D-B5458.d
Lab Smp Id: DJ0KG102 Client Smp ID: LCS9484
Inj Date : 18-AUG-2000 07:36
Operator : 1891 Inst ID: gc4.i
Smp Info : DJ0KG102,5080-G.b,,PEST.sub,,3,
Misc Info : 110155LCS
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 18-Aug-2000 09:52 matkol 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: PITPC044

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	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (mg/L)
1 Tetrachloro-m-xylene	5.646	5.640	0.006	86649	0.03790	0.003790(aR)
5 alpha-BHC	8.400	8.406	-0.006	39614	0.01293	0.001293(a)
6 gamma-BHC (Lindane)	9.786	9.793	-0.007	42191	0.01591	0.001591(aR)
9 Chlordane	Compound Not Detected.					
10 Heptachlor	10.706	10.713	-0.007	63489	0.02160	0.002160(aR)
11 Aldrin	11.673	11.680	-0.007	61374	0.02155	0.002155(aR)
7 beta-BHC	12.206	12.220	-0.014	35389	0.02128	0.002128(a)
8 delta-BHC	Compound Not Detected.					
12 Heptachlor epoxide	13.366	13.373	-0.007	73116	0.02207	0.002206(a)
15 Endosulfan I	13.913	13.920	-0.007	60290	0.01886	0.001886(a)
13 gamma-Chlordane	13.973	13.980	-0.007	65498	0.01931	0.001931(a)
14 alpha-Chlordane	14.073	14.080	-0.007	72996	0.02207	0.002207(a)
16 4,4'-DDE	14.226	14.233	-0.007	81281	0.02413	0.002413(a)
17 Dieldrin	14.513	14.520	-0.007	76647	0.02257	0.002257(aR)
20 Endrin	14.826	14.833	-0.007	62109	0.01964	0.001964(aR)
18 Toxaphene	Compound Not Detected.					

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
-----	==	=====	=====	=====	=====	=====
21 4,4'-DDD	15.373	15.386	-0.013	50878	0.02069	0.002069(a)
22 Endosulfan II	15.526	15.540	-0.014	62798	0.02194	0.002194(a)
23 4,4'-DDT	15.673	15.680	-0.007	51154	0.02059	0.002059(aR)
24 Endrin aldehyde	16.200	16.213	-0.013	30227	0.02255	0.002255(a)
25 Methoxychlor	16.713	16.726	-0.013	27289	0.02337	0.002337(a)
26 Endosulfan sulfate	16.786	16.800	-0.014	18312	0.01045	0.001045(a)
58 MIREX	Compound Not Detected.					
29 Kepone	Compound Not Detected.					
27 Endrin ketone	17.760	17.773	-0.013	50506	0.02447	0.002446(a)
\$ 30 Decachlorobiphenyl	20.080	20.093	-0.013	72683	0.04298	0.004298(aR)

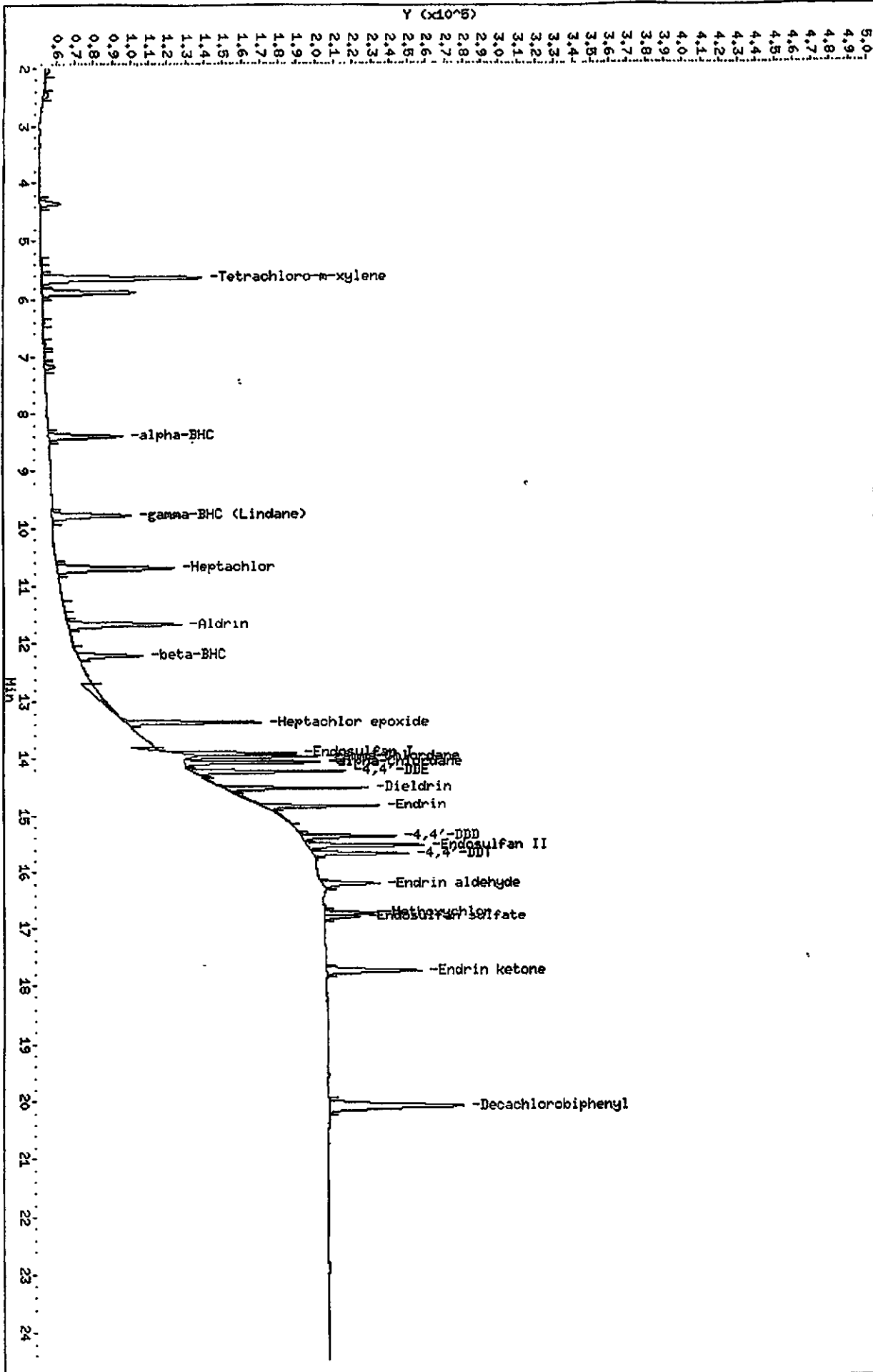
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\pittpa02\chem\gc4.1\5080-G.b\B-85458.d
 Date: 18-MAR-2000 07:36
 Client ID: LCS9484
 Sample Info: DJO60402,5080-G.b,PEST,sub,3,
 Volume Injected (uL): 1.0
 Column phase: DB1701

Instrument: gc4.1
 Operator: 1891
 Column diameter: 0.53

\\pittpa02\chem\gc4.1\5080-G.b\B-85458.d\B-85458.RAW



667 385

**PESTICIDE
MISCELLANEOUS**

B# 0229484

667

386

Separatory Funnel Extraction Worksheet



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

Hexane T03268 Baker

Date Extraction Began	Lot Number	Date Completed	Sample ID	Parameter	Client ID	Method	pH	Sample Volume (mL)	Solvent Volume (mL)	Surrogate Number	Surrogate Volume (mL)	Matrix Spike No.	Matrix Spike Volume (mL)	Clean up Method
8-16-00		8-17-00	001	PCP	NA	3510C	5	100	10.0	190-98-7	1.0	NA	NA	NA
			002	MS			5							
			003	MS			5							
			004				5							
			005				5							
			006				5							
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TCLP (Method 1311)

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571

667 388



Project Number	Log Number	Date	Check/Initials	Filter Lot #	Log Book Number
004497-12	004497-12	8-14-00	8-14-00	8320101W	084 96-MT-526
Client Codes	Client Codes				

Fluid Determination				TCLP Extraction			
Sample ID	Wgt/Vol	Init. pH	Final pH	Extract Fluid #1, or #2	Conc. HNO ₃ to Acidity (for Metals)	Sample ID	Wgt (g) Wet/Dry
DHQR2	5.00g / 96.5ml	4.24	1.74	Soln #1	5ml	1. DHQR2	100.0g
*DHQR4	5.00g / 96.5ml	9.74	5.80	Soln #2	5ml	2. DHQR4	767.8ml
						3. DHQR4	
						4. DHQR4	
						5. DHQR4	
						6. DHQR4	
						7. DHQR4	
						8. DHQR4	
						9. DHQR4	
						10. DHQR4	
						11. DHQR4	
						12. DHQR4	
						13. DHQR4	

Extract(s) Received			Extract(s) Relinquished		
Date	Time	Analyst	Date	Time	Location
8-15-00	14:00	Samuel Murphy	8-15-00	14:15	17E 16E

Date/Time On	Date/Time Off	Agitation Apparatus RPMs
8-14-00 13:30	8-15-00	30 ± 2 JM - 8-14-00
Date	pH Calibration	(4.0)
8-14-00		(7.0)
Date		(10.0)
8-15-00		
Comments		

* = 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)
 * Sample is multi-phasic & All fluid filtered from it will be added to the remaining 5 grams of total filtrate dry weight was used for % solid determination.
 Room Temp = 22°C EIF = 4.47

14

✓ 0281200

5080H.PDF
5080GIX.PDF

Sequence File Header Information:

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Number of Rows      : 54
Instrument Type     : 760 / 900 Series Intelligent Interface
Injection Type      : SINGLE
```

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel B								
				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	DGRCL101, 5080-G	140198BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	DGRCL102, 5080-G	140198LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DGRCL103, 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	189	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

[illegible]

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				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\5160-G.SEQ
 Created by : DE11/02/98 on : 8/16/00 16:49
 Edited by : LM08/16/00 on : 8/20/00 12:06
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
 REVIEWED BY:

667 391

H

Number of Times Edited : 5

Sequence File Header Information:

Number of Rows : 175
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel B 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	MEDA, 5080-G.b.,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	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
4	Sample	DH98T103, 5080-G	030147017		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Sample	DH98X103, 5080-G	030147018		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	DH995103, 5080-G	030147020		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	DH997103, 5080-G	030147021		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	DH99710W, 5080-G	030147021S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	DH99710X, 5080-G	030147021D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	DH998103, 5080-G	030147022		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	DH999103, 5080-G	030147023		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	DH99C103, 5080-G	030147024		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	DH99D103, 5080-G	030147025		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	DH99E103, 5080-G	030147026		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	DH99F103, 5080-G	030147027		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	DH99H103, 5080-G	030147028		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DH99K103, 5080-G	030147029		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DH99L103, 5080-G	030147030		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DH99M103, 5080-G	030147031		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DH99P103, 5080-G	030147032		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DH99Q103, 5080-G	030147033		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DHFAK101, 5080-G	030147BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DHFAK102, 5080-G	030147LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	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
25	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
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	DHA88106, 5080-G	030241006S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	DHA88107, 5080-G	030241006D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DHA7D103, 5080-G	030241001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DHA7J103, 5080-G	030241002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DHA7X103, 5080-G	030241003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DHA81103, 5080-G	030241004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DHA85103, 5080-G	030241005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DHA88105, 5080-G	030241006		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DHA8H103, 5080-G	030241007		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DHA8M103, 5080-G	030241008		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	DHA90105, 5080-G	030241010		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample	DHA90106, 5080-G	030241010S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample	DHA90107, 5080-G	030241010D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DHA98103, 5080-G	030241011		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DHA9D103, 5080-G	030241013		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DHA9H103, 5080-G	030241014		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DHJFJ101, 5080-G	030241BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DHJFJ102, 5080-G	030241LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DHFAJ101, 5080-G	030147BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	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
47	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
48	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
49	Sample	DGXL104, 5080-G	270304001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DGXLN108, 5080-G	270304002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DGXLN109, 5080-G	270304002S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DGXLN10A, 5080-G	270304002D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DGXLQ104, 5080-G	270304003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DGXLRI04, 5080-G	270304004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	DGXL7104, 5080-G	270303001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DGXL9104, 5080-G	270303002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DGXL1A104, 5080-G	270303003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DGXL104, 5080-G	270303005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DGXLH104, 5080-G	270303006		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

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60	Sample	DGXLK104, 5080-G	270303007	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Sample	DH1Q6104, 5080-G	280267002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Sample	DH1QF104, 5080-G	280267003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Sample	DH1QW108, 5080-G	280267004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Sample	DH1QW109, 5080-G	280267004S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Sample	DH1QW10A, 5080-G	280267004D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Sample	DH3P0104, 5080-G	310113001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
67	Sample	DHCME101, 5080-G	270304BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
68	Sample	DHCME102, 5080-G	270304LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
69	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
70	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
71	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
72	Sample	DH3P2104, 5080-G	310113002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
73	Sample	DH3P3104, 5080-G	310113003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
74	Sample	DH3PV104, 5080-G	310118001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
75	Sample	DH3PV115, 5080-G	310118001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
76	Sample	DH3PV116, 5080-G	310118001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
77	Sample	DHPE310M, 5080-G	110155002S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
78	Sample	DHPE310N, 5080-G	110155002D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
79	Sample	DHPDW103, 5080-G	110155001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
80	Sample	DHPE3103, 5080-G	110155002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
81	Sample	DHPE4103, 5080-G	110155003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
82	Sample	DHPE6103, 5080-G	110155004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
83	Sample	DHPE7103, 5080-G	110155005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
84	Sample	DHPE8103, 5080-G	110155006	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
85	Sample	DHPE9103, 5080-G	110155007	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
86	Sample	DHPEA103, 5080-G	110155008	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
87	Sample	DHPED103, 5080-G	110155009	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
88	Sample	DHPEE103, 5080-G	110155010	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
89	Sample	DHPF2103, 5080-G	110157001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
90	Sample	DJOKG101, 5080-G	110155BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
91	Sample	DJOKG102, 5080-G	110155LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
92	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
93	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
94	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
95	Sample	DHGXN104, 5080-G	120157001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
96	Sample	DHGXQ104, 5080-G	120157002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
97	Sample	DHGXK104, 5080-G	120157003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
98	Sample	DHLFP102, 5080-G	080193LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
99	Sample	DHHT1108, 5080-G	080193002S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
100	Sample	DHHT1109, 5080-G	080193002D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
101	Sample	DHGWQ102, 5080-G	030303LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
102	Sample	DHHTH108, 5080-G	080195001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
103	Sample	DHHTH109, 5080-G	080195001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
104	Sample	DHHTH10A, 5080-G	080195001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
105	Sample	DHHV9104, 5080-G	080195002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
106	Sample	DHHVD104, 5080-G	080195003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
107	Sample	DHHVE104, 5080-G	080195004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
108	Sample	DHL9H101, 5080-G	080195BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
109	Sample	DHL9H102, 5080-G	080195LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
110	Sample	DHN8010A, 5080-G	100270001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
111	Sample	DHN8810A, 5080-G	100270002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
112	Sample	DHQ8V101, 5080-G	100270BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
113	Sample	DHQ8V102, 5080-G	100270LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
114	Sample	DHQ8V103, 5080-G	100270LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
115	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
116	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
117	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
118	Sample	DHN8910A, 5080-G	100270003	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
119	Sample	DHN8C10A, 5080-G	100270004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
120	Sample	DHN8H10A, 5080-G	100270005	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
121	Sample	~~DHN8V10A, 5080-G~~	~~100270006~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
122	Sample	DHN8V10A, 5080-G	100270007	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
123	Sample	DHN9010A, 5080-G	100270008	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
124	Sample	DHN9310A, 5080-G	100270009	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
125	Sample	DHN9410A, 5080-G	100270010	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
126	Sample	DJ2MH101, 5080-G	150124BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
127	Sample	DJ2MH102, 5080-G	150124LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
128	Sample	DJ2MH103, 5080-G	150124LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
129	Sample	DHV31102, 5080-G	150124001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
130	Sample	DHV34102, 5080-G	150124002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
131	Sample	DJOKC101, 5080-G	150146BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
132	Sample	DJOKC102, 5080-G	150146LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
133	Sample	DJOKC103, 5080-G	150146LCD	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
134	Sample	~~DHDK1103, 5080-G~~	~~040186001~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
135	Sample	DHDK3104, 5080-G	040186001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
136	Sample	DHGW101, 5080-G	040186BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
137	Sample	DHGW102, 5080-G	040186LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
138	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
139	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
140	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
141	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
142	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
143	Sample	DHDK3106, 5080-G	040186001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
144	Sample	DHDK3107, 5080-G	040186001D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
145	Sample	DHDK6104, 5080-G	040186002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
146	Sample	DH16L113, 5080-G	280199001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

147	Sample	DHE31113, 5080-G	040234001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
148	Sample	DGLH4103, 5080-G	210219-2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
149	Sample	~~DHE31113, 5080-G~~	~~210212001~~	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
150	Sample	DGKDR113, 5080-G	270269001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
151	Sample	DHKQ4102, 5080-G	090213002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
152	Sample			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
153	Sample	DHKQ4112, 5080-G	090213002S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
154	Sample			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
155	Sample	DHKQ4113, 5080-G	090213002D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
156	Sample			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
157	Sample	DJOKE101, 5080-G	090213BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
158	Sample	DJOKE102, 5080-G	090213LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
159	Cal:Replace	MEDIK, 5080-G.b.,	190-80-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
160	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
161	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
162	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
163	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
164	Sample	DHRPW104, 5080-G	140112001	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
165	Sample	DHRPW115, 5080-G	140112001S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
166	Sample	DHRPW116, 5080-G	1401120010	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
167	Sample	DHRQ4104, 5080-G	140112002	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
168	Sample	DHRQA104, 5080-G	140112004	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
169	Sample	DHRQA115, 5080-G	140112004S	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
170	Sample	DHRQA116, 5080-G	140112004D	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
171	Sample	DHRQE104, 5080-G	140112006	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
172	Sample	DHV6K101, 5080-G	140112BLK	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
173	Sample	DHV6K102, 5080-G	140112LCS	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
174	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
175	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 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-B5368	D-B5368		D-B5368	-	-	-	LPT1:
2	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5369	D-B5369		D-B5369	N	MLOW	N	LPT1:
3	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5370	D-B5370		D-B5370	N	MLOW	N	LPT1:
4	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5371	D-B5371		D-B5371	-	-	-	LPT1:
5	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5372	D-B5372		D-B5372	-	-	-	LPT1:
6	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5373	D-B5373		D-B5373	-	-	-	LPT1:
7	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5374	D-B5374		D-B5374	-	-	-	LPT1:
8	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5375	D-B5375		D-B5375	-	-	-	LPT1:
9	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5376	D-B5376		D-B5376	-	-	-	LPT1:
10	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5377	D-B5377		D-B5377	-	-	-	LPT1:
11	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5378	D-B5378		D-B5378	-	-	-	LPT1:
12	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5379	D-B5379		D-B5379	-	-	-	LPT1:
13	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5380	D-B5380		D-B5380	-	-	-	LPT1:
14	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5381	D-B5381		D-B5381	-	-	-	LPT1:
15	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5382	D-B5382		D-B5382	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5383	D-B5383		D-B5383	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5384	D-B5384		D-B5384	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5385	D-B5385		D-B5385	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5386	D-B5386		D-B5386	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5387	D-B5387		D-B5387	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5388	D-B5388		D-B5388	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5389	D-B5389		D-B5389	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5390	D-B5390		D-B5390	-	-	-	LPT1:
24	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5391	D-B5391		D-B5391	-	-	-	LPT1:
25	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5392	D-B5392		D-B5392	-	-	-	LPT1:
26	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5393	D-B5393		D-B5393	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5394	D-B5394		D-B5394	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5395	D-B5395		D-B5395	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5396	D-B5396		D-B5396	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5397	D-B5397		D-B5397	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5398	D-B5398		D-B5398	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5399	D-B5399		D-B5399	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5400	D-B5400		D-B5400	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5401	D-B5401		D-B5401	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5402	D-B5402		D-B5402	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5403	D-B5403		D-B5403	-	-	-	LPT1:
37	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5404	D-B5404		D-B5404	-	-	-	LPT1:
38	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5405	D-B5405		D-B5405	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5406	D-B5406		D-B5406	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5407	D-B5407		D-B5407	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5408	D-B5408		D-B5408	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5409	D-B5409		D-B5409	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5410	D-B5410		D-B5410	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5411	D-B5411		D-B5411	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5412	D-B5412		D-B5412	-	-	-	LPT1:
46	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5413	D-B5413		D-B5413	-	-	-	LPT1:
47	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5414	D-B5414		D-B5414	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5415	D-B5415		D-B5415	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5416	D-B5416		D-B5416	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5417	D-B5417		D-B5417	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5418	D-B5418		D-B5418	-	-	-	LPT1:

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52	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5419	D-B5419	D-B5419	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5420	D-B5420	D-B5420	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5421	D-B5421	D-B5421	-	-	-	LPT1:
55	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5422	D-B5422	D-B5422	-	-	-	LPT1:
56	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5423	D-B5423	D-B5423	-	-	-	LPT1:
57	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5424	D-B5424	D-B5424	-	-	-	LPT1:
58	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5425	D-B5425	D-B5425	-	-	-	LPT1:
59	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5426	D-B5426	D-B5426	-	-	-	LPT1:
60	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5427	D-B5427	D-B5427	-	-	-	LPT1:
61	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5428	D-B5428	D-B5428	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5429	D-B5429	D-B5429	-	-	-	LPT1:
63	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5430	D-B5430	D-B5430	-	-	-	LPT1:
64	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5431	D-B5431	D-B5431	-	-	-	LPT1:
65	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5432	D-B5432	D-B5432	-	-	-	LPT1:
66	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5433	D-B5433	D-B5433	-	-	-	LPT1:
67	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5434	D-B5434	D-B5434	-	-	-	LPT1:
68	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5435	D-B5435	D-B5435	-	-	-	LPT1:
69	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5436	D-B5436	D-B5436	-	-	-	LPT1:
70	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5437	D-B5437	D-B5437	-	-	-	LPT1:
71	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5438	D-B5438	D-B5438	-	-	-	LPT1:
72	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5439	D-B5439	D-B5439	-	-	-	LPT1:
73	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5440	D-B5440	D-B5440	-	-	-	LPT1:
74	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5441	D-B5441	D-B5441	-	-	-	LPT1:
75	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5442	D-B5442	D-B5442	-	-	-	LPT1:
76	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5443	D-B5443	D-B5443	-	-	-	LPT1:
77	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5444	D-B5444	D-B5444	-	-	-	LPT1:
78	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5445	D-B5445	D-B5445	-	-	-	LPT1:
79	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5446	D-B5446	D-B5446	-	-	-	LPT1:
80	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5447	D-B5447	D-B5447	-	-	-	LPT1:
81	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5448	D-B5448	D-B5448	-	-	-	LPT1:
82	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5449	D-B5449	D-B5449	-	-	-	LPT1:
83	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5450	D-B5450	D-B5450	-	-	-	LPT1:
84	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5451	D-B5451	D-B5451	-	-	-	LPT1:
85	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5452	D-B5452	D-B5452	-	-	-	LPT1:
86	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5453	D-B5453	D-B5453	-	-	-	LPT1:
87	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5454	D-B5454	D-B5454	-	-	-	LPT1:
88	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5455	D-B5455	D-B5455	-	-	-	LPT1:
89	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5456	D-B5456	D-B5456	-	-	-	LPT1:
90	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5457	D-B5457	D-B5457	-	-	-	LPT1:
91	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5458	D-B5458	D-B5458	-	-	-	LPT1:
92	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5459	D-B5459	D-B5459	-	-	-	LPT1:
93	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5460	D-B5460	D-B5460	-	-	-	LPT1:
94	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5461	D-B5461	D-B5461	-	-	-	LPT1:
95	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5462	D-B5462	D-B5462	-	-	-	LPT1:
96	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5463	D-B5463	D-B5463	-	-	-	LPT1:
97	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5464	D-B5464	D-B5464	-	-	-	LPT1:
98	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5465	D-B5465	D-B5465	-	-	-	LPT1:
99	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5466	D-B5466	D-B5466	-	-	-	LPT1:
100	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5467	D-B5467	D-B5467	-	-	-	LPT1:
101	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5468	D-B5468	D-B5468	-	-	-	LPT1:
102	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5469	D-B5469	D-B5469	-	-	-	LPT1:
103	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5470	D-B5470	D-B5470	-	-	-	LPT1:
104	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5471	D-B5471	D-B5471	-	-	-	LPT1:
105	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5472	D-B5472	D-B5472	-	-	-	LPT1:
106	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5473	D-B5473	D-B5473	-	-	-	LPT1:
107	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5474	D-B5474	D-B5474	-	-	-	LPT1:
108	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5475	D-B5475	D-B5475	-	-	-	LPT1:
109	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5476	D-B5476	D-B5476	-	-	-	LPT1:
110	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5477	D-B5477	D-B5477	-	-	-	LPT1:
111	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5478	D-B5478	D-B5478	-	-	-	LPT1:
112	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5479	D-B5479	D-B5479	-	-	-	LPT1:
113	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5480	D-B5480	D-B5480	-	-	-	LPT1:
114	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5481	D-B5481	D-B5481	-	-	-	LPT1:
115	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5482	D-B5482	D-B5482	-	-	-	LPT1:
116	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5483	D-B5483	D-B5483	-	-	-	LPT1:
117	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5484	D-B5484	D-B5484	-	-	-	LPT1:
118	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5485	D-B5485	D-B5485	-	-	-	LPT1:
119	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5486	D-B5486	D-B5486	-	-	-	LPT1:
120	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5487	D-B5487	D-B5487	-	-	-	LPT1:
121	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5488	D-B5488	D-B5488	-	-	-	LPT1:
122	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5489	D-B5489	D-B5489	-	-	-	LPT1:
123	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5490	D-B5490	D-B5490	-	-	-	LPT1:
124	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5491	D-B5491	D-B5491	-	-	-	LPT1:
125	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5492	D-B5492	D-B5492	-	-	-	LPT1:
126	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5493	D-B5493	D-B5493	-	-	-	LPT1:
127	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5494	D-B5494	D-B5494	-	-	-	LPT1:
128	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5495	D-B5495	D-B5495	-	-	-	LPT1:
129	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5496	D-B5496	D-B5496	-	-	-	LPT1:
130	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5497	D-B5497	D-B5497	-	-	-	LPT1:
131	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5498	D-B5498	D-B5498	-	-	-	LPT1:
132	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5499	D-B5499	D-B5499	-	-	-	LPT1:
133	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5500	D-B5500	D-B5500	-	-	-	LPT1:
134	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5501	D-B5501	D-B5501	-	-	-	LPT1:
135	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5502	D-B5502	D-B5502	-	-	-	LPT1:
136	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5503	D-B5503	D-B5503	-	-	-	LPT1:
137	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5504	D-B5504	D-B5504	-	-	-	LPT1:
138	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5505	D-B5505	D-B5505	N	MLOW	N	LPT1:

139	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5506	D-B5506	D-B5506	N	MLOW	N	LPT1:
140	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5507	D-B5507	D-B5507	-	-	-	LPT1:
141	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5508	D-B5508	D-B5508	-	-	-	LPT1:
142	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5509	D-B5509	D-B5509	-	-	-	LPT1:
143	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5510	D-B5510	D-B5510	-	-	-	LPT1:
144	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5511	D-B5511	D-B5511	-	-	-	LPT1:
145	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5512	D-B5512	D-B5512	-	-	-	LPT1:
146	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5513	D-B5513	D-B5513	-	-	-	LPT1:
147	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5514	D-B5514	D-B5514	-	-	-	LPT1:
148	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5515	D-B5515	D-B5515	-	-	-	LPT1:
149	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5516	D-B5516	D-B5516	-	-	-	LPT1:
150	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5517	D-B5517	D-B5517	-	-	-	LPT1:
151	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5518	D-B5518	D-B5518	-	-	-	LPT1:
152	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5519	D-B5519	D-B5519	-	-	-	LPT1:
153	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5520	D-B5520	D-B5520	-	-	-	LPT1:
154	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5521	D-B5521	D-B5521	-	-	-	LPT1:
155	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5522	D-B5522	D-B5522	-	-	-	LPT1:
156	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5523	D-B5523	D-B5523	-	-	-	LPT1:
157	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5524	D-B5524	D-B5524	-	-	-	LPT1:
158	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5525	D-B5525	D-B5525	-	-	-	LPT1:
159	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5526	D-B5526	D-B5526	N	MLOW	N	LPT1:
160	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5527	D-B5527	D-B5527	N	MLOW	N	LPT1:
161	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5528	D-B5528	D-B5528	-	-	-	LPT1:
162	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5529	D-B5529	D-B5529	-	-	-	LPT1:
163	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5530	D-B5530	D-B5530	-	-	-	LPT1:
164	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5531	D-B5531	D-B5531	-	-	-	LPT1:
165	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5532	D-B5532	D-B5532	-	-	-	LPT1:
166	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5533	D-B5533	D-B5533	-	-	-	LPT1:
167	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5534	D-B5534	D-B5534	-	-	-	LPT1:
168	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5535	D-B5535	D-B5535	-	-	-	LPT1:
169	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5536	D-B5536	D-B5536	-	-	-	LPT1:
170	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5537	D-B5537	D-B5537	-	-	-	LPT1:
171	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5538	D-B5538	D-B5538	-	-	-	LPT1:
172	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5539	D-B5539	D-B5539	-	-	-	LPT1:
173	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5540	D-B5540	D-B5540	-	-	-	LPT1:
174	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5541	D-B5541	D-B5541	-	-	-	LPT1:
175	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5542	D-B5542	D-B5542	-	-	-	LPT1:

REQUESTED BY: YUSHINSC

METHOD: QJ Pesticides (8081A)

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
		CNTR#								RCVD	REQD
21B,C CLP1	DHPDW-1-03	___	259549	054156	A-36-QJ	COH110155	001		SOLID	0	4 1
21B,C CLP1	DHPE3-1-03	___	259550	054156	A-36-QJ	COH110155	002	QC	SOLID	0	4 1
21B,C CLP1	DHPE4-1-03	___	259551	054156	A-36-QJ	COH110155	003		SOLID	0	4 1
21B,C CLP1	DHPE6-1-03	___	259552	054156	A-36-QJ	COH110155	004		SOLID	0	4 1
21B,C CLP1	DHPE7-1-03	___	259553	054156	A-36-QJ	COH110155	005		SOLID	0	4 1
21B,C CLP1	DHPE8-1-03	___	259554	054156	A-36-QJ	COH110155	006		SOLID	0	4 1
21B,C CLP1	DHPE9-1-03	___	259555	054156	A-36-QJ	COH110155	007		SOLID	0	4 1
21B,C CLP1	DHPEA-1-03	___	259556	054156	A-36-QJ	COH110155	008		SOLID	0	4 1
21B,C CLP1	DHPED-1-03	___	259557	054156	A-36-QJ	COH110155	009		SOLID	0	4 1
21B,C CLP1	DHP EE-1-03	___	259558	054156	A-36-QJ	COH110155	010		SOLID	0	4 1
21B CLP	DHPF2-1-03	___	259559	357464	A-36-QJ	COH110157	001		SOLID	0	4 1
21E CLP1	DHQXN-1-04	___	259560	399411	A-36-QJ	COH120157	001		SOLID	0	3 1
21E CLP1	DHQXQ-1-04	___	259561	399411	A-36-QJ	COH120157	002		SOLID	0	3 1
21E CLP1	DHQXR-1-04	___	259562	399411	A-36-QJ	COH120157	003		SOLID	0	3 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

[Signature]
[Signature]

[Signature]
[Signature]

8-16-00 1545
8-16-00 2350

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

667 397

HERBICIDE DATA

667 398

**HERBICIDE
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0H120157

	CLIENT ID.	SRG01	TOT OUT
	=====	=====	=====
01	~~INTRA-LAB QC~~	~~53~~	~~00~~
02	~~DF/S1/0224/GRAB/005~~	~~56~~	~~00~~
03	~~DF/S1/0224/SDC/024~~	~~55~~	~~00~~
04	~~DF/S1/0224/SDC/025~~	~~55~~	~~00~~
05	~~METHOD BLK. DJ0KX101~~	~~91~~	~~00~~
06	~~LCS DJ0KX102~~	~~84~~	~~00~~
07	~~LAB MS/MSD D~~	~~53~~	~~00~~
08	~~LAB MS/MSD S~~	~~65~~	~~00~~

lm 8/25/00

SURROGATES

SRG01 = DCAA

QC LIMITS

(42-125)

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

FORM II

667 400

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0H160000

WO #: DJ0KX102

BATCH: 0229487

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	0.160	0.100	62	28 - 136	
2,4,5-TP (Silvex)	0.0400	0.0282	70	50 - 128	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limitsCOMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: COH110155

WO #: DHPE310P

BATCH: 0229487

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
2,4-D	0.160	ND	0.134	83	35 - 133	
2,4,5-TP (Silvex)	0.0400	ND	0.0331	83	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 limitsSpike Recovery: 0 out of 2 outside limits

COMMENTS:

667 402

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 #: C0H110155

WO #: DHPE310Q

BATCH: 0229487

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD %	QC LIMITS	QUAL
	(mg/L)	(mg/L)	REC RPD	RPD REC	
2,4-D	0.160	0.118	74 12	20 35 - 133	
2,4,5-TP (Silvex)	0.0400	0.0299	75 10	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.

667

493

DJ0KX101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: A-A50220.

Lot Number: C0H120157

Matrix: SOLID

Extraction Method:

Date Extracted: 08/16/00

Date Analyzed(1): 08/18/00

Date Analyzed(2): N/A

Time Analyzed(1): 04:08

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 ~~LAB MS/MSD~~	~~DHPE310P S~~	~~08/17/00~~	~~N/A~~
02 ~~LAB MS/MSD~~	~~DHPE310Q D~~	~~08/17/00~~	~~N/A~~
03 ~~INTRA-LAB QC~~	~~DHPE3104~~	~~08/17/00~~	~~N/A~~
04 DF/S1/0224/GRAB/005	DHQXN105	08/18/00	N/A
05 DF/S1/0224/SDC/024	DHQQQ105	08/18/00	N/A
06 DF/S1/0224/SDC/025	DHQQXR105	08/18/00	N/A
07 CHECK SAMPLE	DJ0KX102 C	08/18/00	N/A
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

1/11 8/25/00

COMMENTS:

FORM IV

667 404

**HERBICIDE
SAMPLE DATA**

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/12/00

Work Order: DHQXN105

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229487

Client Sample Id: DF/S1/0224/GRAB/005

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

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50217.D
 Report Date: 18-Aug-2000 11:36

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50217.D
 Lab Smp Id: DHQXN105 Client Smp ID: DF/S1/0224/GRAB/005
 Inj Date : 18-AUG-2000 02:42
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DHQXN105,5100.b
 Misc Info : 12015701
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
 Meth Date : 18-Aug-2000 10:28 colussyj Quant Type: ESTD
 Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
 Als bottle: 36
 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)	FINAL (mg/L)
1 DALAPON				Compound Not Detected.		
2 DCAA	10.585	10.575	0.010	9065054	0.02813	0.05626(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	18.535	18.564	-0.029	270365	0.00148	0.002952(a)

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50217.D
Report Date: 18-Aug-2000 11:36

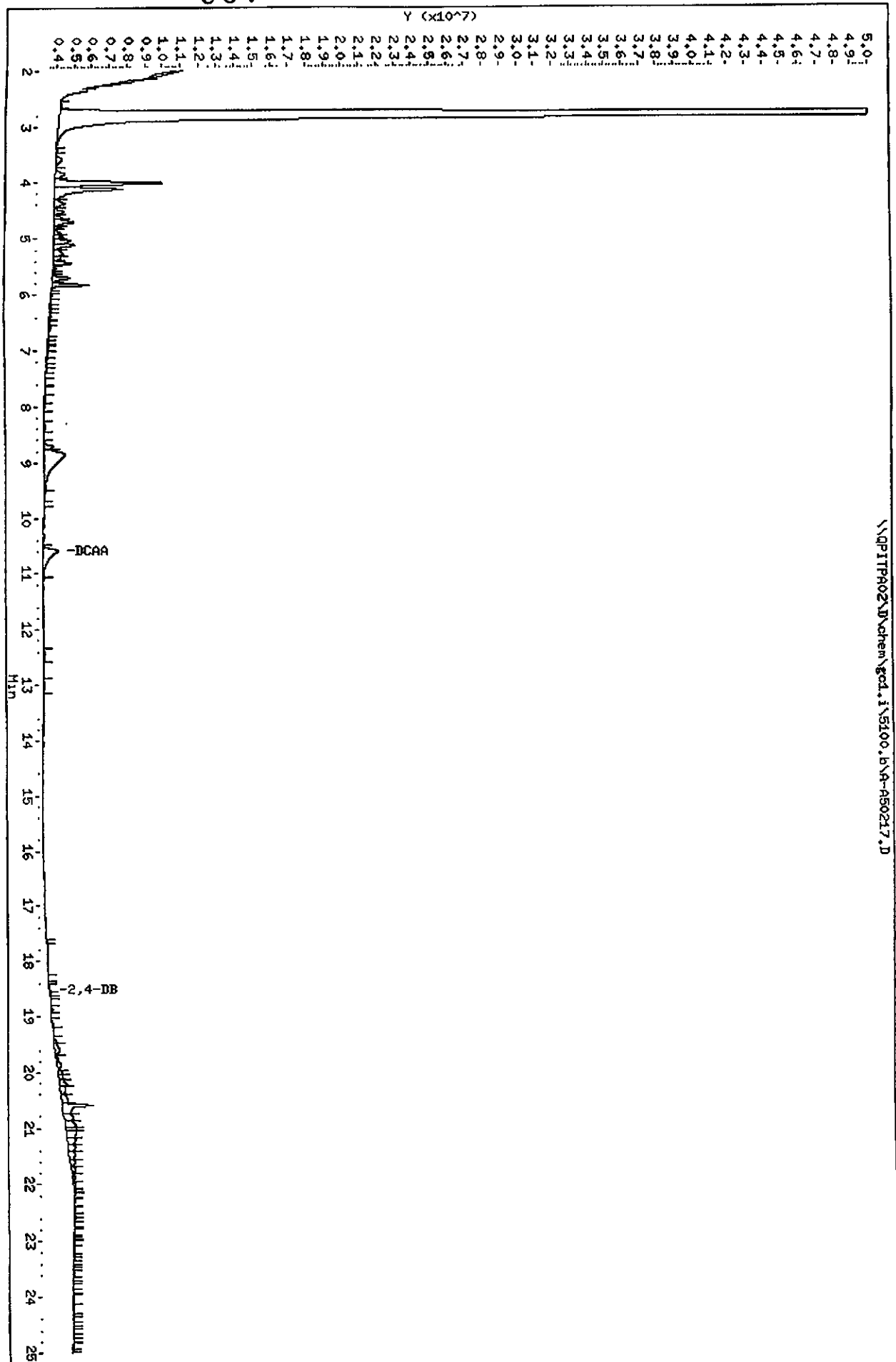
667 497

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\QPI7P802\J\chen\gcl.1\5100.b\A-A50217.D
 Date : 18-MUG-2000 02:42
 Client ID: DF/S1/0224/GRAB/005
 Sample Info: DHQNH105.S100.b
 Volume Injected (uL): 1.0
 Column phase: DB608

Instrument: gcl.1
 Operator: 01797
 Column diameter: 0.53



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

Matrix: (soil/water) SOLID

Lab Sample ID: C0H120157 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/12/00

Work Order: DHQXQ105

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229487

Client Sample Id: DF/S1/0224/SDC/024

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

667 410

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50218.D
 Report Date: 18-Aug-2000 11:37

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50218.D
 Lab Smp Id: DHQXQ105 Client Smp ID: DF/S1/0224/SDC/024
 Inj Date : 18-AUG-2000 03:11
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DHQXQ105,5100.b
 Misc Info : 12015702
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
 Meth Date : 18-Aug-2000 10:28 colussyj Quant Type: ESTD
 Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
 Als bottle: 37
 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)	FINAL (mg/L)
1 DALAPON				Compound Not Detected		
\$ 2 DCAA	10.584	10.575	0.009	8843672	0.02744	0.05488 (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	18.531	18.564	-0.033	231012	0.00126	0.002522 (a)

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50218.D
Report Date: 18-Aug-2000 11:37

667 411

QC Flag Legend

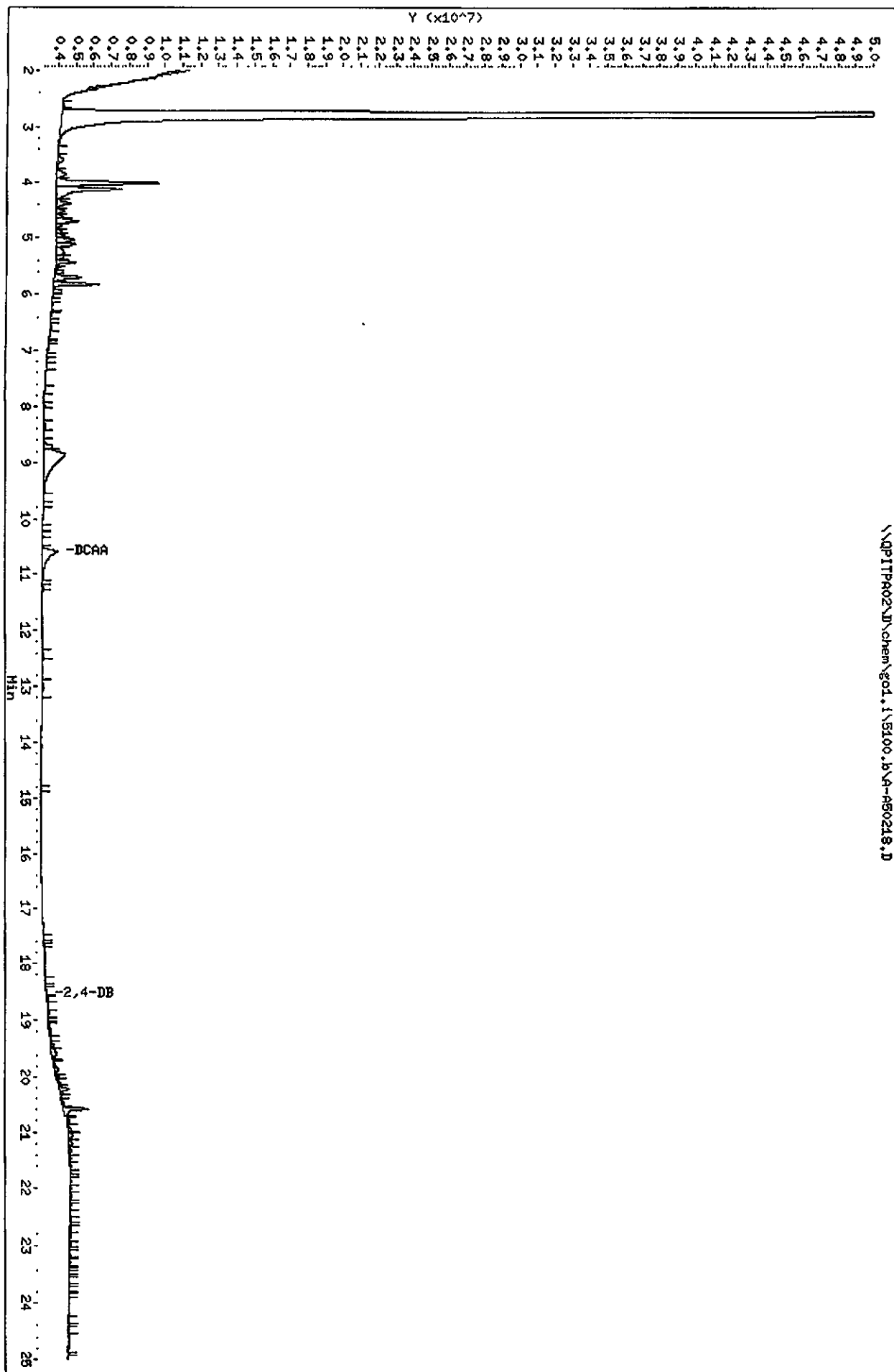
- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

667 412

Data File: \\QPI1P402\\D\\chem\\gc1.i\\5100.b\\A-A50218.D
 Date : 18-AUG-2000 03:11
 Client ID: DF/S1/0224/SDC/024
 Sample Info: DHQX0105,5100.b
 Volume Injected (ul): 1.0
 Column phase: DB608

Instrument: gc1.i
 Operator: 01797
 Column diameter: 0.53

\\QPI1P402\\D\\chem\\gc1.i\\5100.b\\A-A50218.D



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

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

Lab Sample ID: C0H120157 003

Sample WT/Vol: 100 / mL
Work Order: DHQXR105
Dilution factor: 1

Date Received: 08/12/00
Date Extracted: 08/16/00
Date Analyzed: 08/18/00

QC Batch: 0229487

Client Sample Id: DF/S1/0224/SDC/025

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(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

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50219.D
 Report Date: 18-Aug-2000 11:37

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50219.D
 Lab Smp Id: DHQXR105 Client Smp ID: DF/S1/0224/SDC/025
 Inj Date : 18-AUG-2000 03:39
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DHQXR105,5100.b
 Misc Info : 12015703
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
 Meth Date : 18-Aug-2000 10:28 colussyj Quant Type: ESTD
 Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
 Als bottle: 38
 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)	FINAL (mg/L)
1 DALAPON				Compound Not Detected.		
\$ 2 DCAA	10.581	10.575	0.006	8836996	0.02742	0.05484 (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	18.533	18.564	-0.031	237796	0.00130	0.002596 (a)

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50219.D
Report Date: 18-Aug-2000 11:37

667 415

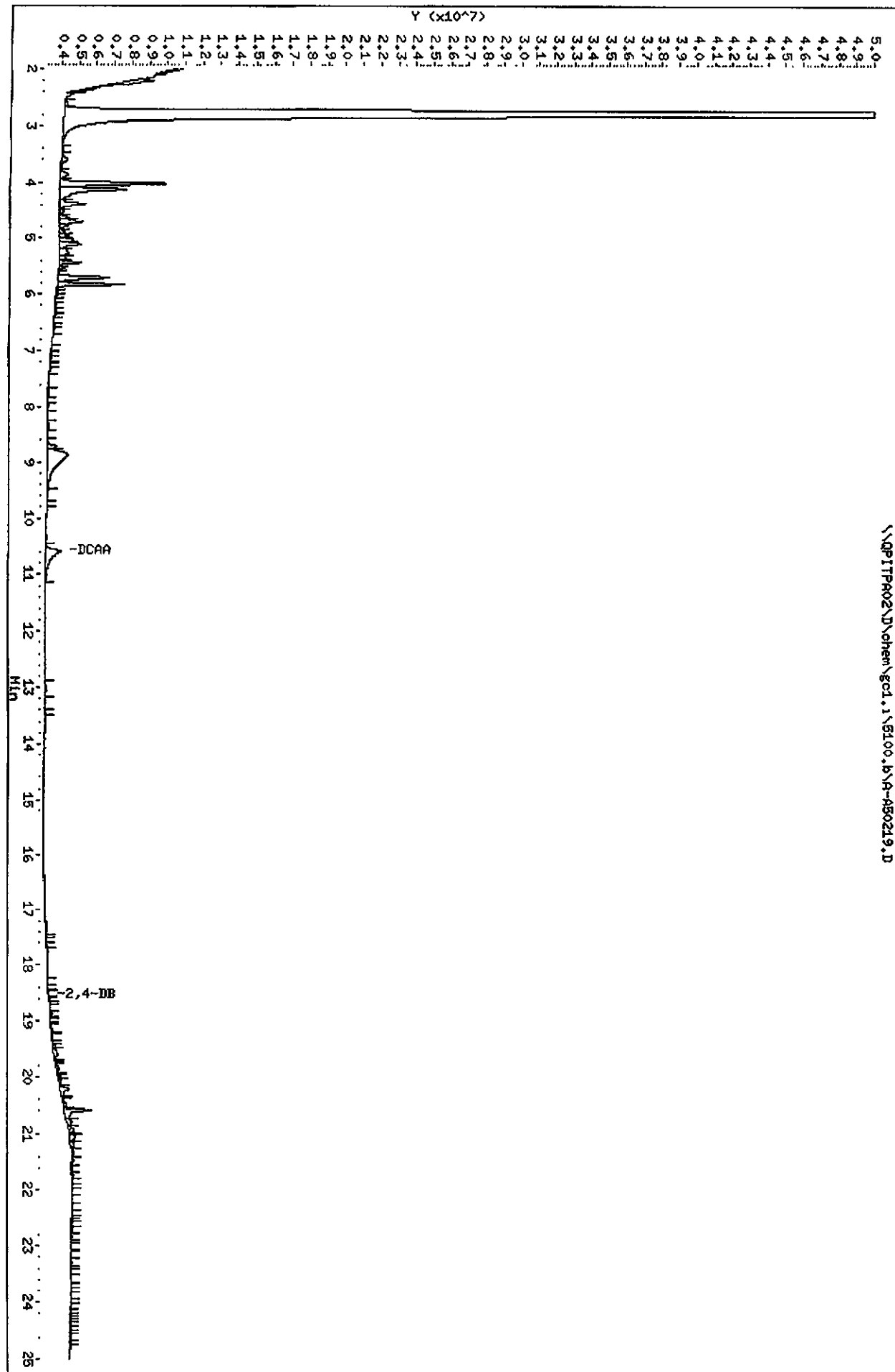
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

667 416

Data File: \NPI17A02\Nchem\gc1.\5100.b\A-AS0219.D
 Date: 18-AUG-2000 03:39
 Client ID: DF/S1/0224/SDC/025
 Sample Info: DHQKR105.5100.b
 Volume Injected (uL): 1.0
 Column phase: DB608

Instrument: gc1.i
 Operator: 01797
 Column diameter: 0.53



21.

**HERBICIDE
CALIBRATION DATA**

667 418

Report Date : 10-Aug-2000 16:29

(d)
HP6850A
03608

STL Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
 Quant Method : ESTD Target Version : 4.04
 Last Update : 10-Aug-2000 16:28 Number of Cpnds : 12
 Data Type : GC MULTI COMP

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	3.731	3.661-3.801	8.93e+007
\$ 2 DCAA	10.576	10.506-10.646	3.22e+008
3 MCPP	11.019	10.949-11.089	5.01e+005
4 DICAMBA	11.189	11.119-11.259	2.30e+008
5 MCPA	11.977	11.907-12.047	5.64e+005
6 DICHLOROPROP	12.809	12.739-12.879	4.93e+007
7 2,4-D	14.311	14.241-14.381	4.45e+007
8 PENTACHLOROPHENOL	15.540	15.470-15.610	5.57e+008
9 2,4,5-TP (SILVEX)	16.760	16.690-16.830	1.84e+009
10 2,4,5-T	17.886	17.816-17.956	1.34e+009
11 DINOSEB	18.066	17.996-18.136	1.41e+009
12 2,4-DB	18.564	18.494-18.634	1.83e+008

Report Date : 10-Aug-2000 16:30

62
HP68901A
DB608

667 419

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	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
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

AK 10.8%
RSD

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50203.D
Report Date: 18-Aug-2000 12:49

7E
68901A
DS608

667 420

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 17-AUG-2000 20:02
Lab File ID: A-A50203.D Init. Cal. Date(s): 10-AUG-2000 10-AUG-2000
Analysis Type: Init. Cal. Times: 10:19 12:15
Lab Sample ID: MHERB Quant Type: ESTD
Method: \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m

COMPOUND	RRF	RFO	MIN RRF	MAX RD	MAX RD
1 DALAPON	89275622	98830091	0.010	10.7	15.0
2 DCAA	322281098	347258261	0.010	7.8	15.0
3 MCPP	500536	537141	0.010	7.3	15.0
4 DICAMBA	230166257	244903859	0.010	6.4	15.0
5 MCPA	564062	590434	0.010	4.7	15.0
6 DICHLOROPROP	49301369	54024422	0.010	9.6	15.0
7 2,4-D	44547740	47646557	0.010	7.0	15.0
8 PENTACHLOROPHENOL	557007349	593529605	0.010	6.6	15.0
9 2,4,5-TP(SILVEX)	1.842e+09	1.931e+09	0.010	4.8	15.0
10 2,4,5-T	1.342e+09	1.427e+09	0.010	6.3	15.0
11 DINOSEB	1.410e+09	1.591e+09	0.010	12.8	15.0
12 2,4-DB	183180464	190052923	0.010	3.8	15.0

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50222.D
 Report Date: 18-Aug-2000 13:58

12
 68901A
 D3608

STL - Pittsburgh

667 421

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 18-AUG-2000 05:05
 Lab File ID: A-A50222.D Init. Cal. Date(s): 10-AUG-2000 10-AUG-2000
 Analysis Type: Init. Cal. Times: 10:19 12:15
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m

COMPOUND	RRF	RFO	MIN	MAX
RRF	RFO	RRF	%D	%D
1 DALAPON	89275622	101120387	0.010	13.3
2 DCAA	322281098	357627109	0.010	11.0
3 MCPP	500536	537767	0.010	7.4
4 DICAMBA	230166257	252020212	0.010	9.5
5 MCPA	564062	590367	0.010	4.7
6 DICHLOROPROP	49301369	53366262	0.010	8.2
7 2,4-D	44547740	46960517	0.010	5.4
8 PENTACHLOROPHENOL	557007349	595340977	0.010	6.9
9 2,4,5-TP(SILVEX)	1.842e+09	1.982e+09	0.010	7.6
10 2,4,5-T	1.342e+09	1.390e+09	0.010	3.5
11 DINOSEB	1.410e+09	1.635e+09	0.010	15.9
12 2,4-DB	183180464	176310710	0.010	-3.8

46.1%
 2512

667 422

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C0H120157

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	08/17/00	2002	10.57		
07	DF/S1/0224/G	08/18/00	0242	10.59		
08	DF/S1/0224/S	08/18/00	0311	10.58		
09	DF/S1/0224/S	08/18/00	0339	10.58		
10	BLK	08/18/00	0408	10.59		
11	LCS	08/18/00	0436	10.58		
12	MHERB	08/18/00	0505	10.57		
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.

STL Pittsburgh

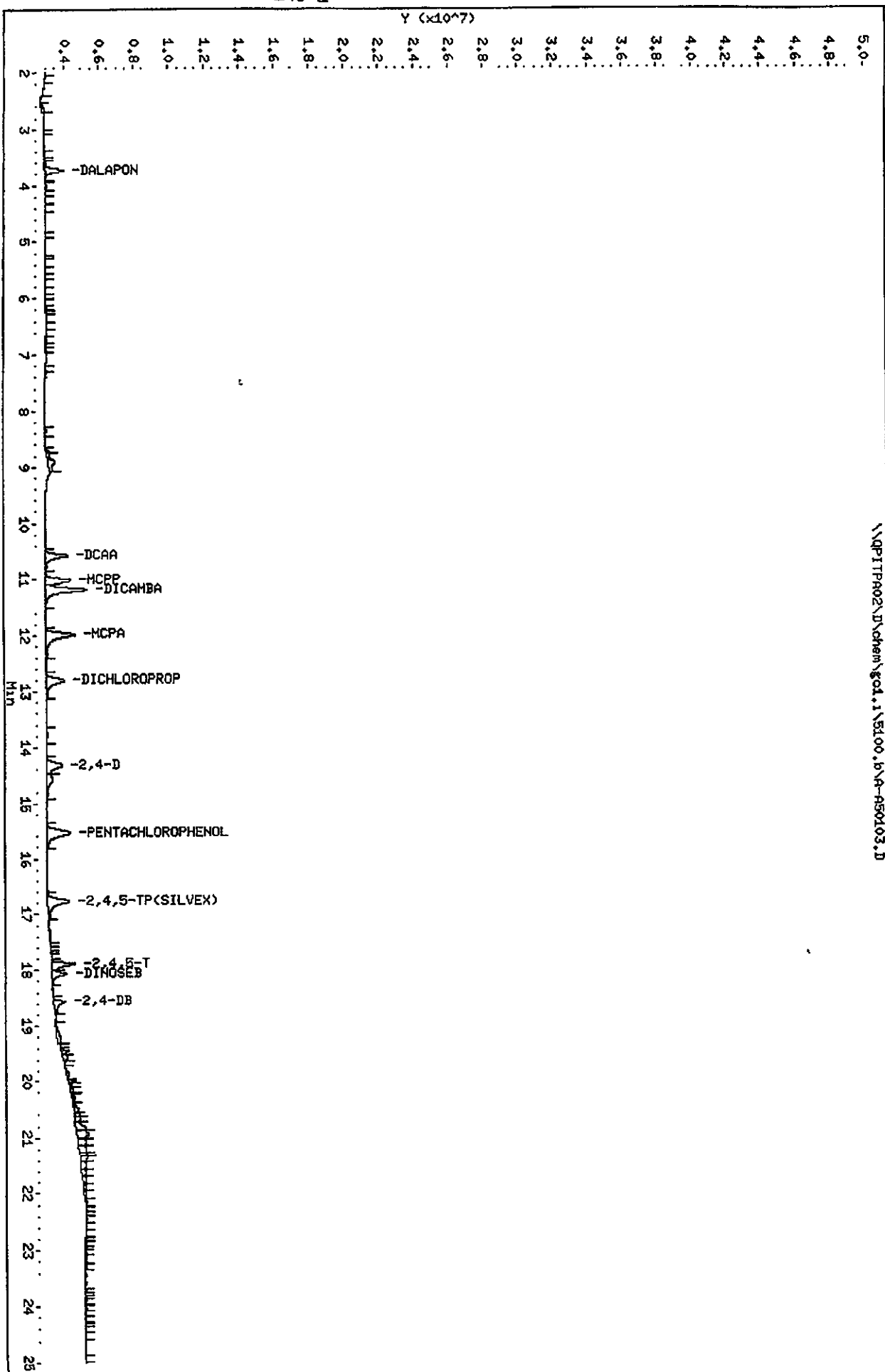
Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50103.D
Lab Smp Id: Lherb
Inj Date : 10-AUG-2000 10:19
Operator : 01797
Smp Info : Lherb,5100.b
Misc Info : 190-94-1
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 10-Aug-2000 16:25 eppingerd Quant Type: ESTD
Cal Date : 10-AUG-2000 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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	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

667 424

Data File: \\QPI1P002\Jchem\gc1.i\5100.b\A-050103.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

667 425

STL Pittsburgh

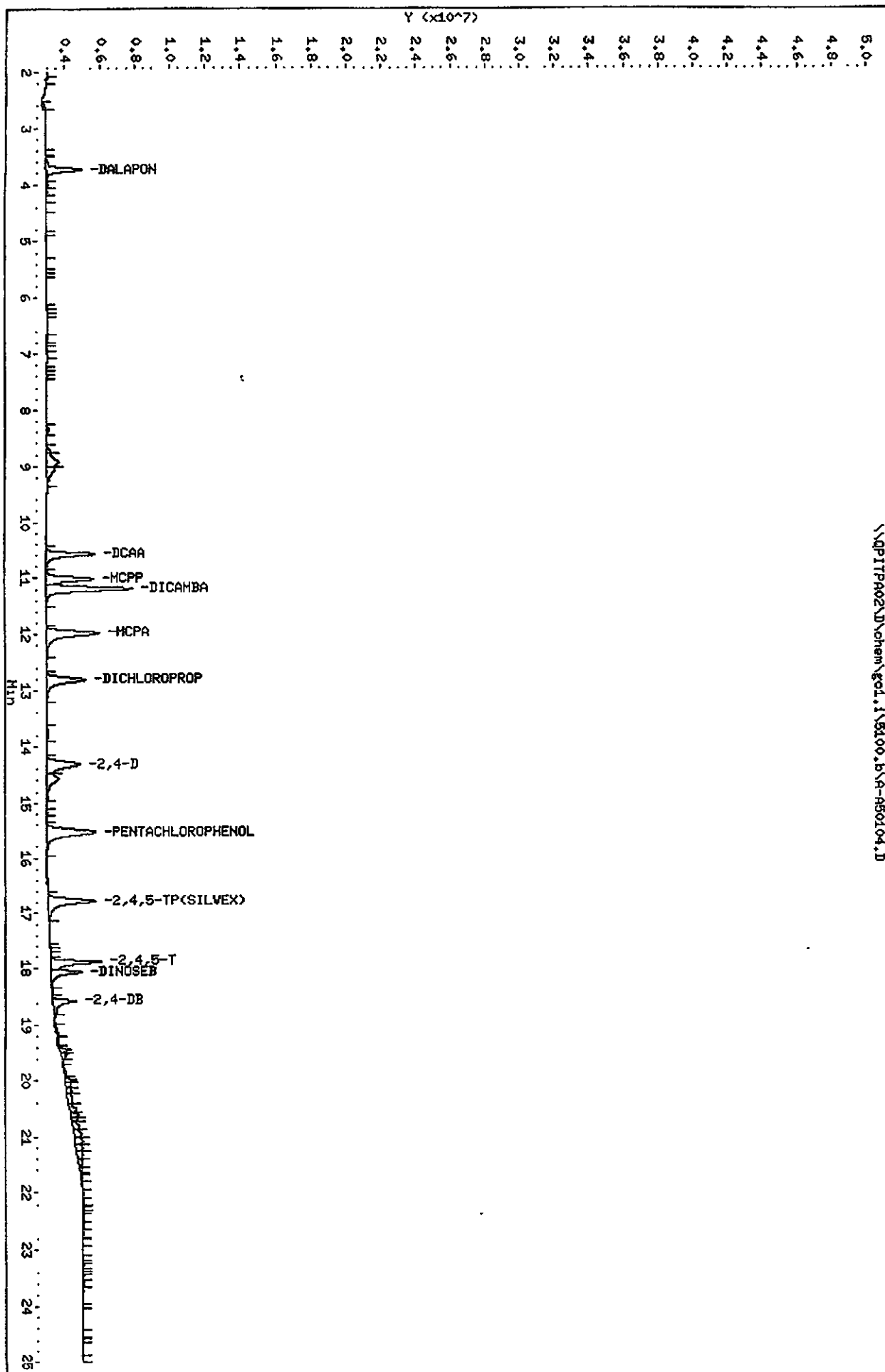
Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50104.D
Lab Smp Id: MLherb
Inj Date : 10-AUG-2000 10:48
Operator : 01797
Smp Info : MLherb,5100.b
Misc Info : 190-94-2
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 10-Aug-2000 16:25 eppingerd Quant Type: ESTD
Cal Date : 10-AUG-2000 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)	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: \\NPITPA02\chem\col.1\5100.b\A-850104.D
Date: 10-AUG-2000 10:48
Client ID:
Sample Info: MHerb, 5100.b
Column phase: DB608

Instrument: col.1
Operator: 01797
Column diameter: 0.53

\\NPITPA02\chem\col.1\5100.b\A-850104.D



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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
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
Target Version: 4.04
Processing Host: PITPC086

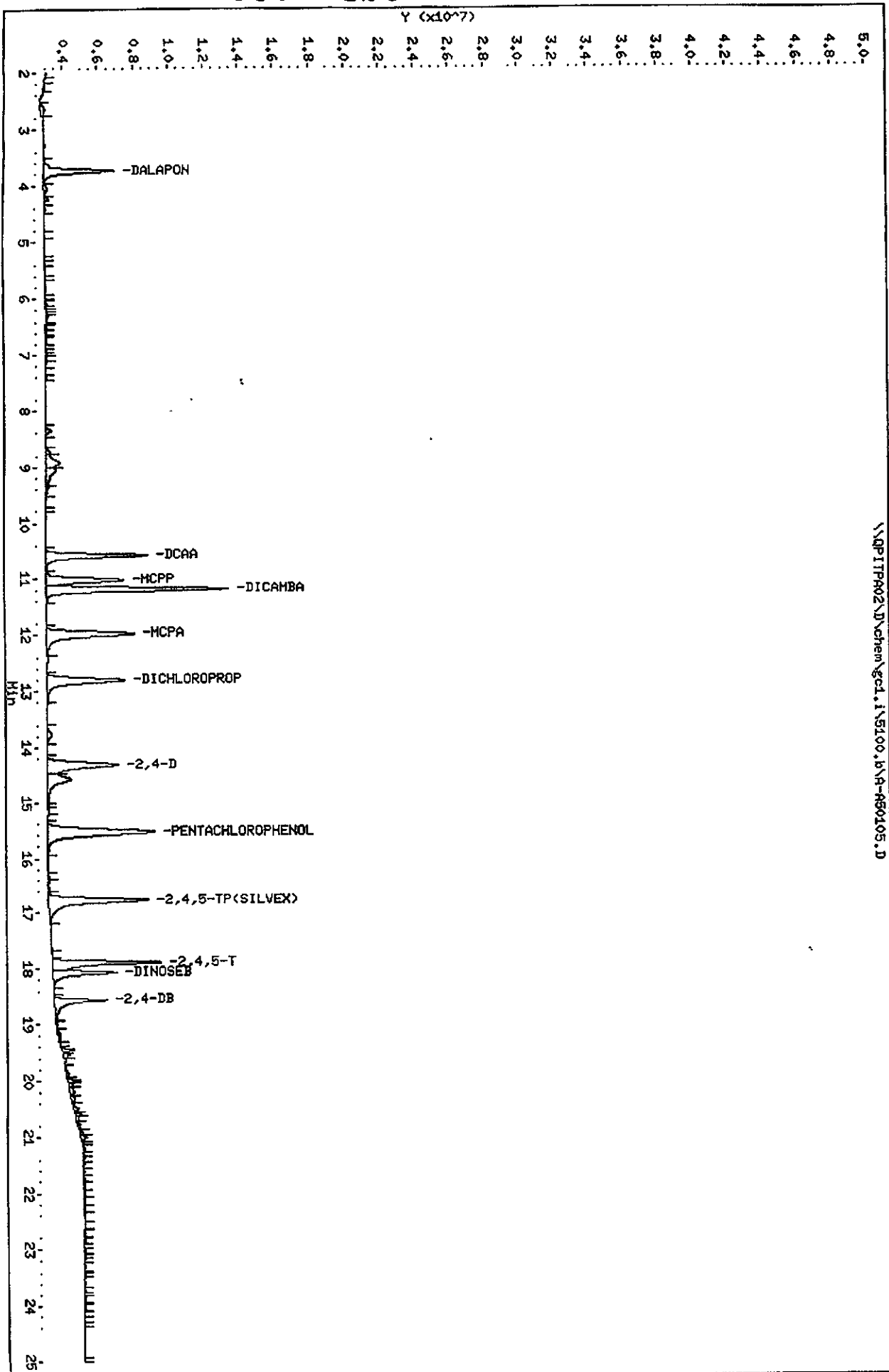
Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	--	-----	-----	-----	-----	-----
1 DALAPON	3.730	3.730	0.000	3995022	0.04390	0.04258
\$ 2 DCAA	10.575	10.575	0.000	28522183	0.08510	0.08232
3 MCPP	11.018	11.018	0.000	4451329	8.52000	7.279
4 DICAMBA	11.188	11.188	0.000	10366979	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

667 428

Data File: \\QPITPA02\Jvchem\gcl.i\5100.b\A-850105.D
 Date: 10-AUG-2000 11:17
 Client ID:
 Sample Info: Mherb,5100.b
 Column Phase: DB608

Instrument: gcl.i
 Operator: 01797
 Column diameter: 0.53

\\QPITPA02\Jvchem\gcl.i\5100.b\A-850105.D



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
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
Dil Factor: 1.00000 Calibration Sample, Level: 4
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC086

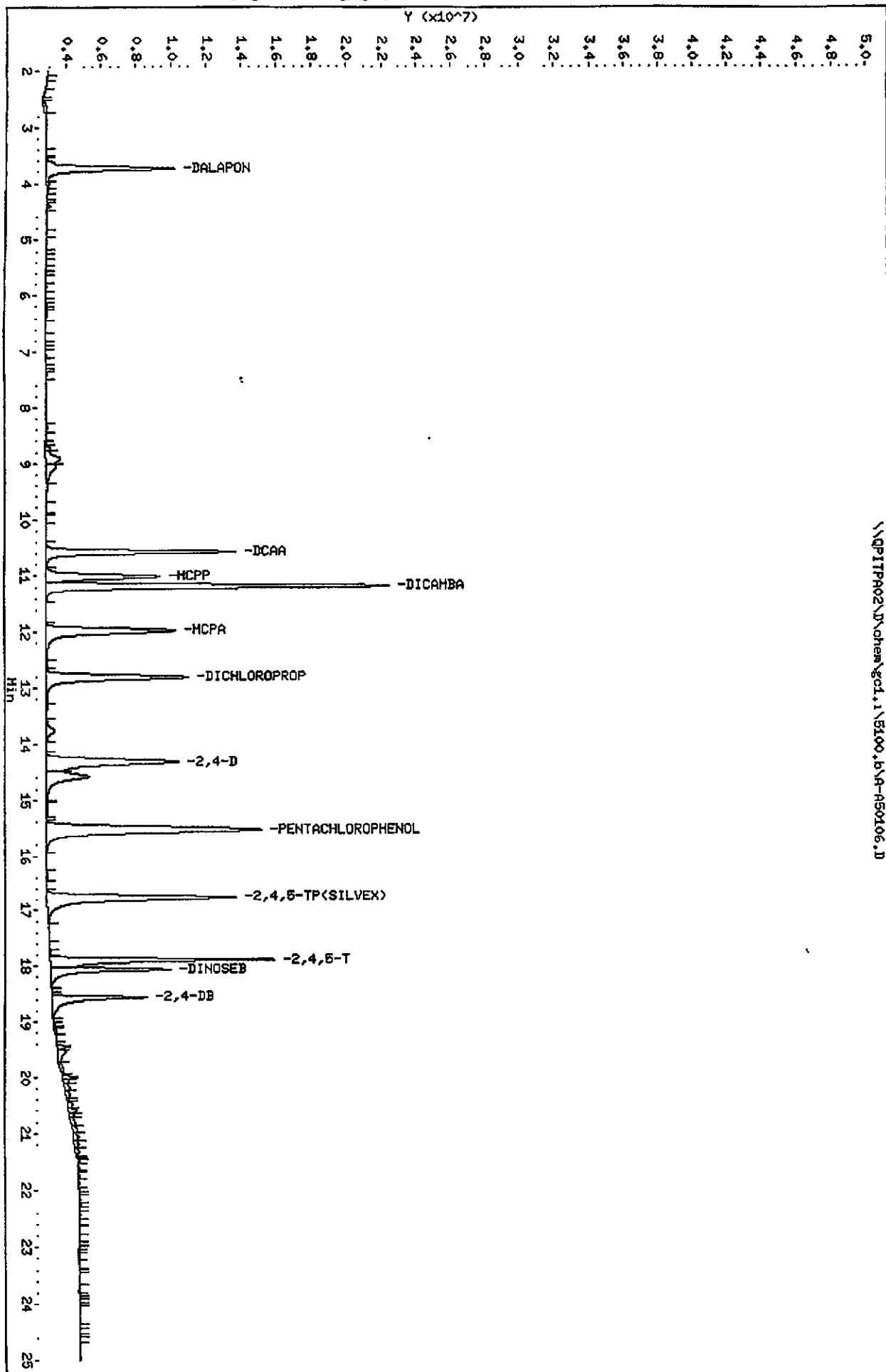
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	3.731	3.730	0.001	7348748	0.08780	0.08049
\$ 2 DCAA	10.574	10.575	-0.001	50419972	0.17000	0.1510
3 MCPP	11.016	11.018	-0.002	6516349	17.0000	11.75
4 DICAMBA	11.188	11.188	0.000	19532871	0.08510	0.08453
5 MCPA	11.973	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

667 430

Data File: \\QPI1P02\N\chem\gcl.1\5100.b\A-850106.D
 Date: 10-AUG-2000 11:46
 Client ID:
 Sample Info: HHerb, 5100.b
 Column phase: DB608

Instrument: gcl.1
 Operator: 01797
 Column diameter: 0.53

\\QPI1P02\N\chem\gcl.1\5100.b\A-850106.D



Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50107.D
Report Date: 10-Aug-2000 16:28

667 431

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
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

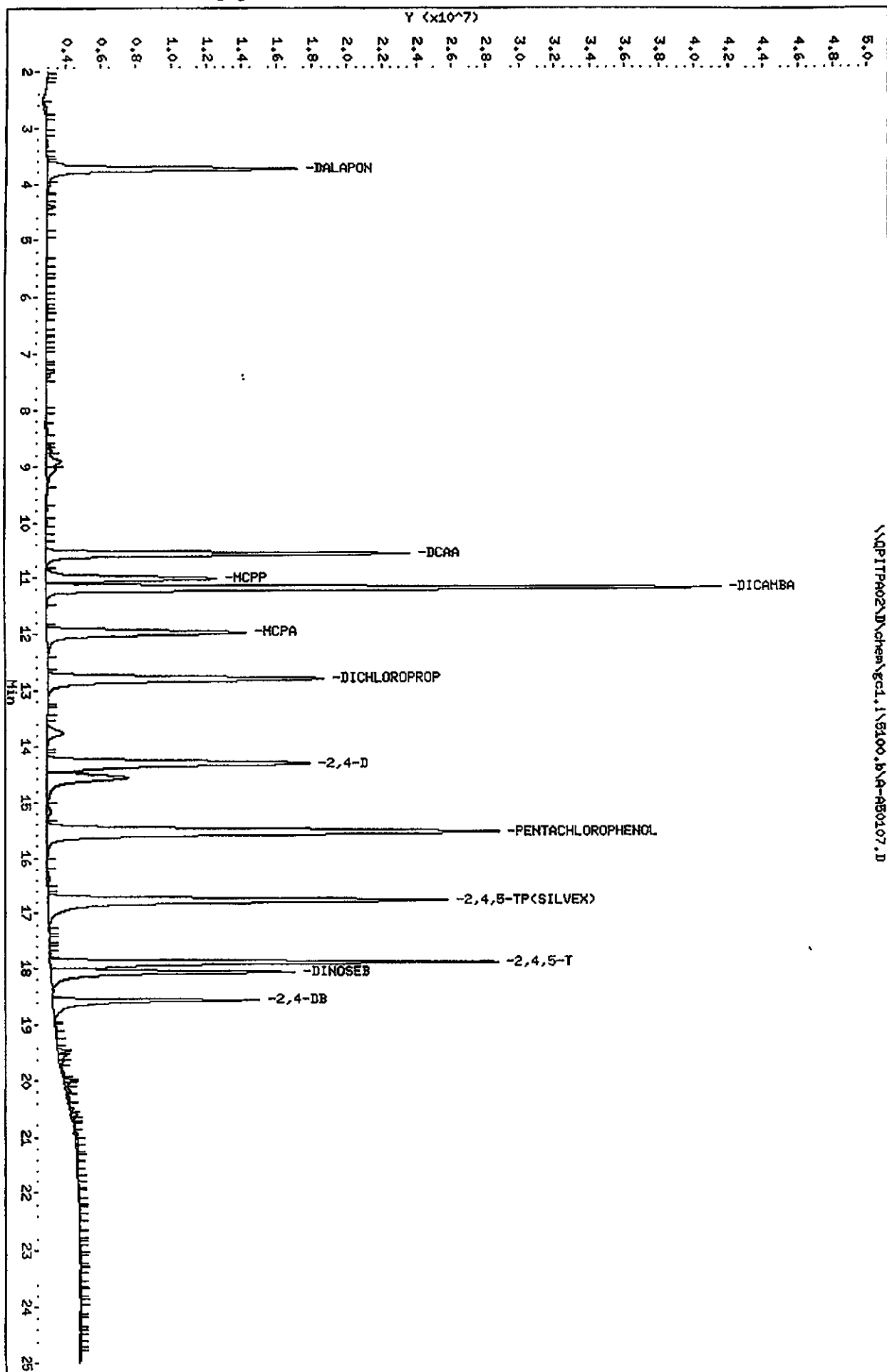
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	3.731	3.730	0.001	14287579	0.17600	0.1600
\$ 2 DCAA	10.572	10.575	-0.003	93627115	0.34000	0.2905
3 MCPP	11.014	11.018	-0.004	9708832	34.1000	19.40
4 DICAMBA	11.187	11.188	-0.001	38509994	0.17000	0.1673
5 MCPA	11.977	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

667 432

Data File: \\NPITPA02\chem\col.1\5100.b\A-850107.D
 Date: 10-AUG-2000 12:15
 Client ID:
 Sample Info: Herb, 5100.b
 Column phase: DB608

Instrument: col.1
 Operator: 01797
 Column diameter: 0.53

\\NPITPA02\chem\col.1\5100.b\A-850107.D



STL - Pittsburgh

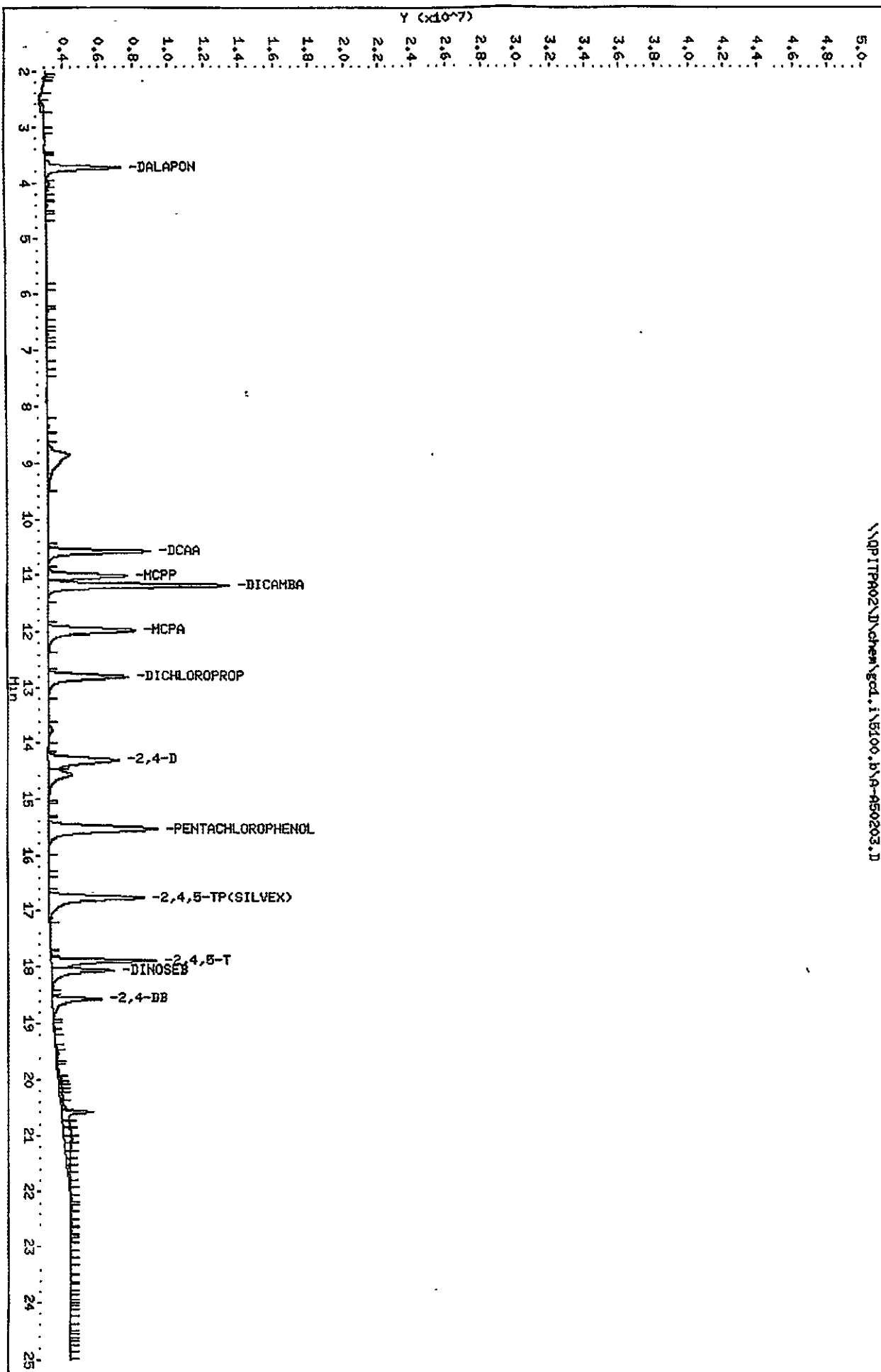
Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50203.D
Lab Smp Id: MHERB
Inj Date : 17-AUG-2000 20:02
Operator : 01797
Smp Info : MHERB,5100.b
Misc Info : 190-94-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 18-Aug-2000 15:43 colussyj
Cal Date : 10-AUG-2000 12:15
Als bottle: 22
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A50107.D
Continuing Calibration Sample
Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	3.730	3.730	0.000	4338641	0.04390	0.04860
\$ 2 DCAA	10.574	10.575	-0.001	29551678	0.08510	0.09170
3 MCPP	11.012	11.017	-0.005	4576443	8.52000	9.143
4 DICAMBA	11.188	11.188	0.000	10408414	0.04250	0.04522
5 MCPA	11.974	11.973	0.001	5054117	8.56000	8.960
6 DICHLOROPROP	12.804	12.806	-0.002	4581271	0.08480	0.09292
7 2,4-D	14.305	14.309	-0.004	4054722	0.08510	0.09102
8 PENTACHLOROPHENOL	15.534	15.537	-0.003	6315155	0.01064	0.01134
9 2,4,5-TP(SILVEX)	16.764	16.766	-0.002	40736700	0.02110	0.02211
10 2,4,5-T	17.888	17.884	0.004	30112323	0.02110	0.02243
11 DINOSEB	18.064	18.066	-0.002	20204423	0.01270	0.01433
12 2,4-DB	18.565	18.564	0.001	16059472	0.08450	0.08767

Data File: \\NPITP002\chem\gc1.i\B100.b\A-AB0203.D
Date: 17-AUG-2000 20:02
Client ID:
Sample Info: HERB, B100.b
Column phase: DB608

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50222.D
Lab Smp Id: MHERB
Inj Date : 18-AUG-2000 05:05
Operator : 01797
Smp Info : MHERB,5100.b
Misc Info : 190-94-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 18-Aug-2000 13:57 colussyj Quant Type: ESTD
Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
Als bottle: 41 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	3.732	3.730	0.002	4439185	0.04390	0.04972
\$ 2 DCAA	10.574	10.575	-0.001	30434067	0.08510	0.09443
3 MCPP	11.013	11.017	-0.004	4581778	8.52000	9.154
4 DICAMBA	11.186	11.188	-0.002	10710859	0.04250	0.04654
5 MCPA	11.970	11.973	-0.003	5053543	8.56000	8.959
6 DICHLOROPROP	12.799	12.806	-0.007	4525459	0.08480	0.09179
7 2,4-D	14.308	14.309	-0.001	3996340	0.08510	0.08971
8 PENTACHLOROPHENOL	15.533	15.537	-0.004	6334428	0.01064	0.01137
9 2,4,5-TP(SILVEX)	16.764	16.766	-0.002	41829854	0.02110	0.02270
10 2,4,5-T	17.888	17.884	0.004	29319740	0.02110	0.02184
11 DINOSEB	18.063	18.066	-0.003	20759248	0.01270	0.01472
12 2,4-DB	18.566	18.564	0.002	14898255	0.08450	0.08133

667 436

Data File: \\GPITPA02\J\chem\gc1.1\5100.b\A-A50222.D

Date: 18-AUG-2000 05:05

Client ID:

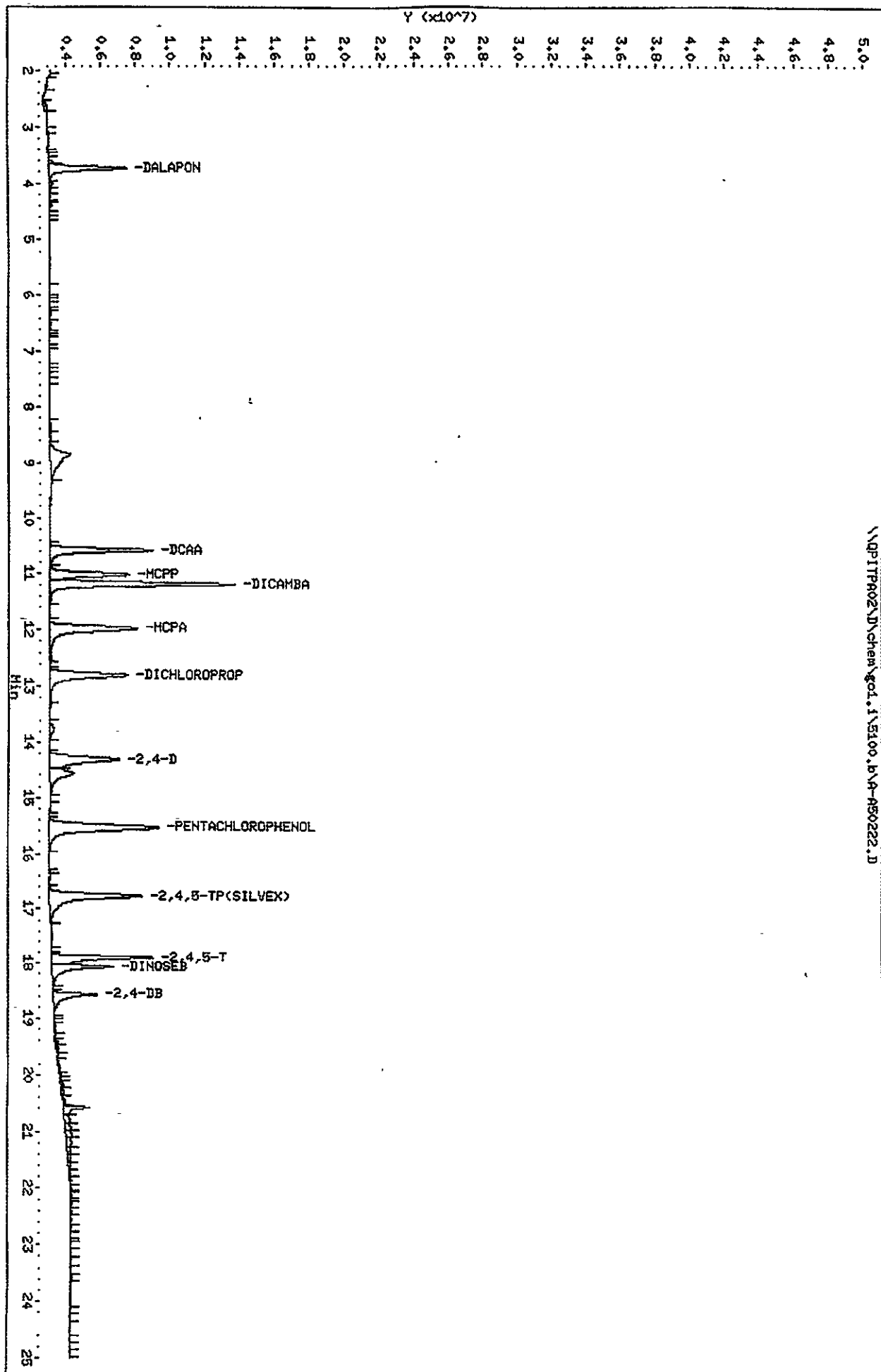
Sample Info: HHERB,5100.b

Column phase: DB608

Instrument: gc1.1

Operator: 01797

Column diameter: 0.53



667 437

**HERBICIDE
QC DATA**

667 438

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160000 487

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/11/00

Work Order: DJ0KX101

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229487

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

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50220.D
 Lab Smp Id: DJ0KX101 Client Smp ID: BLK
 Inj Date : 18-AUG-2000 04:08
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DJ0KX101,5100.b
 Misc Info : 110155blk
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
 Meth Date : 18-Aug-2000 10:28 colussyj Quant Type: ESTD
 Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
 Als bottle: 39 QC Sample: 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)	FINAL (mg/L)
1 DALAPON				Compound Not Detected.		
\$ 2 DCAA	10.587	10.575	0.012	14628972	0.04539	0.09078 (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	18.537	18.564	-0.027	226481	0.00124	0.002473 (a)

QC Flag Legend

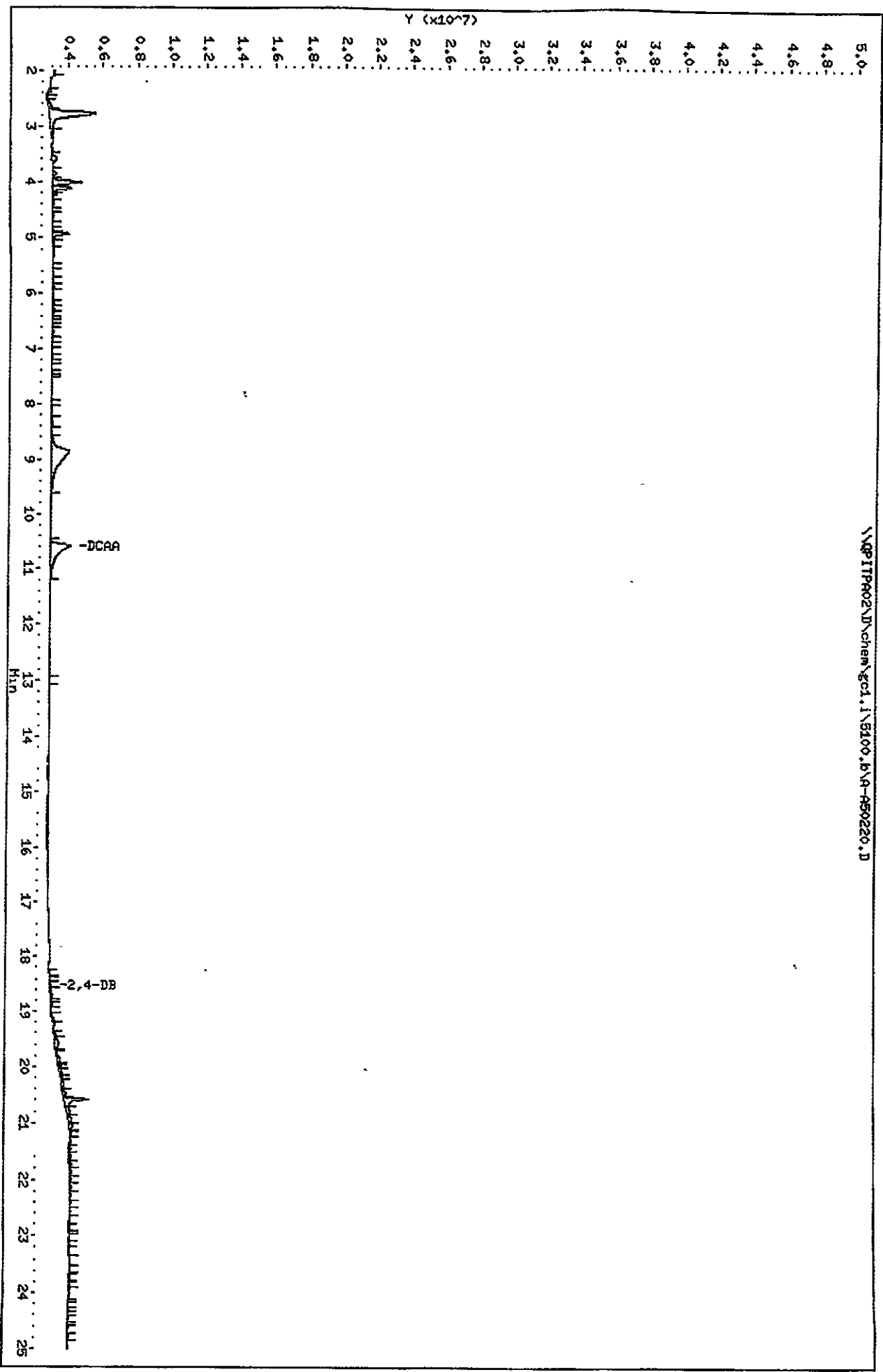
- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

667 441

Data File: \\QP1TP002\chem\gc1.i\5100.b\A-050220.D
 Date: 18-AUG-2000 04:08
 Client ID: BLK
 Sample Info: D30KX101,5100.b
 Volume Injected (uL): 1.0
 Column phase: DB608

Instrument: gc1.i
 Operator: 01797
 Column diameter: 0.53

\\QP1TP002\chem\gc1.i\5100.b\A-050220.D



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160000 487

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/11/00

Work Order: DJ0KX102

Date Extracted: 08/16/00

Dilution factor: 1

Date Analyzed: 08/18/00

QC Batch: 0229487

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.100	
93-72-1	2,4,5-TP (Silvex)	0.0282	

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50221.D
Lab Smp Id: DJ0KX102 Client Smp ID: LCS
Inj Date : 18-AUG-2000 04:36
Operator : 01797 Inst ID: gc1.i
Smp Info : DJ0KX102,5100.b
Misc Info : 110155LCS
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 18-Aug-2000 12:49 colussyj Quant Type: ESTD
Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
Als bottle: 40 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

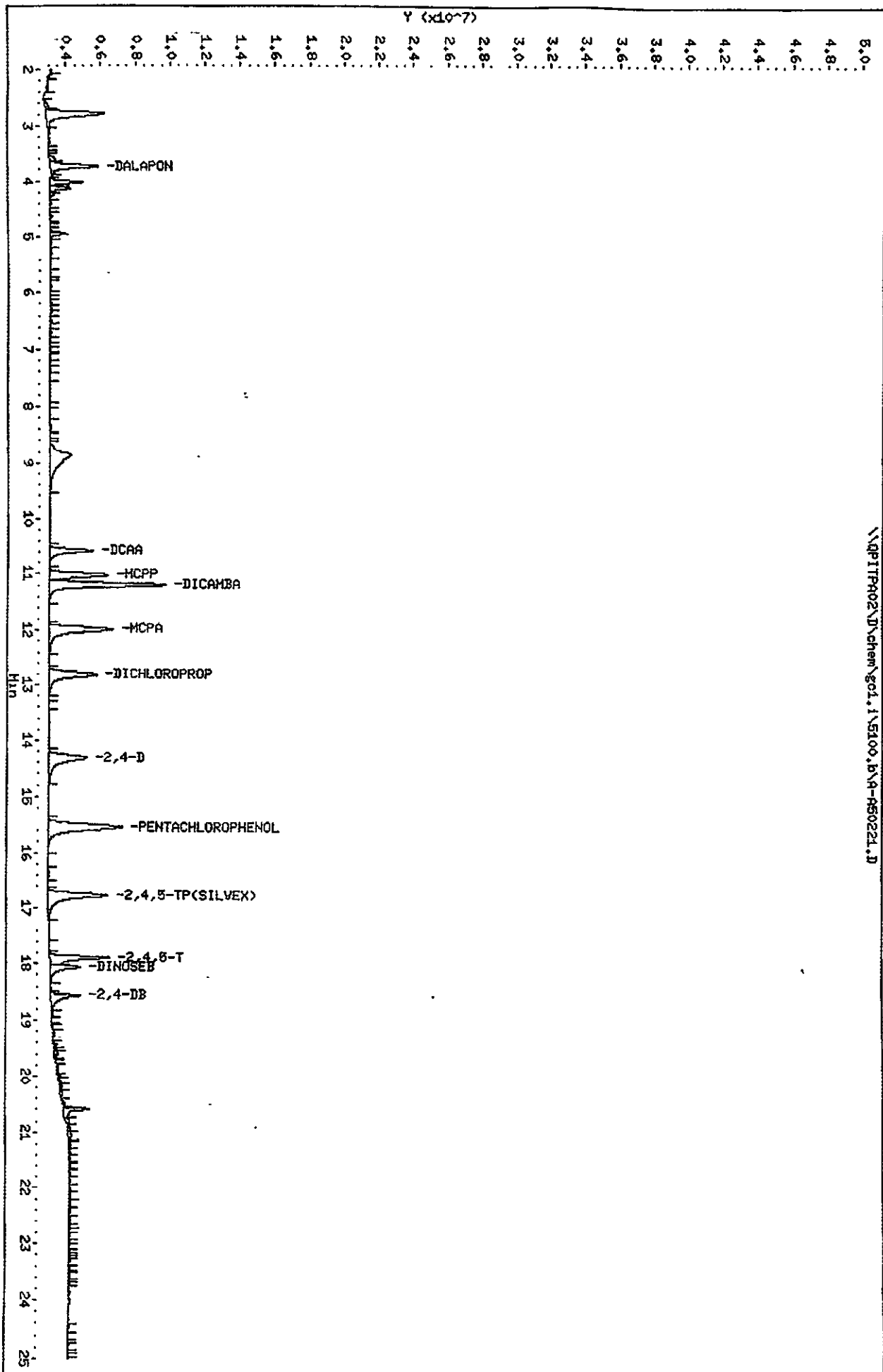
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
1 DALAPON	3.730	3.730	0.000	2739490	0.03069	0.06137(aR)
\$ 2 DCAA	10.579	10.575	0.004	13556859	0.04207	0.08413(aR)
3 MCPP	11.016	11.017	-0.001	3447648	6.88791	13.78
4 DICAMBA	11.189	11.188	0.001	6727647	0.02923	0.05846(a)
5 MCPA	11.976	11.973	0.003	3717769	6.59106	13.18
6 DICHLOROPROP	12.808	12.806	0.002	2811362	0.05702	0.1140(a)
7 2,4-D	14.313	14.309	0.004	2227817	0.05001	0.1000(aR) ✓
8 PENTACHLOROPHENOL	15.540	15.537	0.003	4312387	0.00774	0.01548(a)
9 2,4,5-TP(SILVEX)	16.763	16.766	-0.003	25951076	0.01409	0.02817(aR) ✓
10 2,4,5-T	17.887	17.884	0.003	17952084	0.01337	0.02675(aR)
11 DINOSEB	18.067	18.066	0.001	10175730	0.00722	0.01443(a)
12 2,4-DB	18.565	18.564	0.001	9289634	0.05071	0.1014(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\QP1TP02\Drchem\gc1.i\5100.b\A-850221.D
Date: 18-AUG-2000 04:36
Client ID: LCS
Sample Info: D06X102, 5100.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc1.i
Operator: Q1797
Column diameter: 0.53



**HERBICIDE
MISCELLANEOUS**

Separatory Funnel Extraction Worksheet

B # 0029487



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

4051

(TFLP)

HEXANE

703268

BARKER

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

Date Extraction Began	Date Completed	Parameter	Client ID	Method	pH	Sample Volume (mL)	Solvent Volume (mL)	Surrogate Volume (mL)	Surrogate Number	Solvent Lot	Surrogate Volume (mL)	Solvent Mfg	Matrix Spike No.	Clean up Matrix
8-16-00	8-17-00	8-17-00	8-17-00	3510		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
Lot Number	Sample ID	Parameter	Client ID	Method	pH	Sample Volume (mL)	Solvent Volume (mL)	Surrogate Volume (mL)	Surrogate Number	Solvent Lot	Surrogate Volume (mL)	Solvent Mfg	Matrix Spike No.	Clean up Matrix
1. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
2. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
3. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
4. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
5. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
6. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
7. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
8. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
9. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
10. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
11. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
12. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
13. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
14. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
15. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
16. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
17. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
18. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
19. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
20. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
21. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
22. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
23. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A
24. POH 110 155	BPB	CL5	N/A	5120		100	10.0	190-99-9	1.0	190-99-6	1.0	N/A	N/A	N/A

Created: DE 8-10-00

Sequence Table (Front Injector):

Vial Information Part:

A

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	~~040131001B~~
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 ✓

667 449

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	DGXXK5110, 5100.b	HERB	1	Sample		
21	21	DGXXKA110, 5100.b	HERB	1	Sample		
22	22	DGXXKC110, 5100.b	HERB	1	Sample		
23	23	DGXXKM110, 5100.b	HERB	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	==	=====	=====	=====
24	24	DGXXKP110,5100.b	HERB	1	Sample		
25	25	DGXXKQ110,5100.b	HERB	1	Sample		
26	26	DGXXKR110,5100.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:

ICAD 8-10-00 667 451

Line	Vial	Vial Information	
=====	=====	=====	=====
1	1	8151 HERB ANALYSIS	✓
2	2	8151 HERB ANALYSIS	✓
3	3	190-94-3	184 ✓
4	4	03014401	185 ✓
5	5	03018301	186 ✓
6	6	04023001	187 ✓
7	7	03018102	188 ✓
Print? 8	8	03018102MS	189 ✓
Print? 9	9	03018102MSD	190 ✓
10	10	04022402	191 ✓ check peak
11	11	04022702	192 ✓ check peak
12	12	09014602	193 ← - TARGET ?
Print 13	13	030144LCS ~~030144LCS~~	194 ✓
Print 14	14	030144LCSD	195 ✓
15	15	030144BLK	196 ✓
16	16	090146BLK	197 ✓
Print 17	17	090146LCS	198 ✓
Print 18	18	090146LCSD	199 ✓
Print 19	19	(LCS) 030181BLK	200 ✓
20	20	030181BLK	201 ✓
21	21	028031711	202 ✓
22	22	190-94-3	203 ✓
23	23	11015501	204 ✓
24	24	11015502	205 ✓
25	25	11015502MS	206 ✓

Line Vial Vial Information

=====

=====

26	26	11015502MSD	207
27	27	11015503	208 ✓
28	28	11015504	209 ✓
29	29	11015505	210 ✓
30	30	11015506	211 ✓
31	31	11015507	212 ✓
32	32	11015508	213 ✓
33	33	11015509	214 ✓
34	34	11015510	215 ✓
35	35	11015701	216 ✓
36	36	12015701	217 ✓
37	37	12015702	218 ✓
38	38	12015703	219 ✓
39	39	110155BLK	220 ✓
40	40	110155LCS	221 ✓
41	41	190-94-3	222 ✓
42	42	09021302	223 ✓
43	43	09021302MS	224 ✓
44	44	09021302MSD	225 ✓
45	45	090213BLK	226 ✓
46	46	090213LCS	227 ✓
47	47	15014601	228 TARGET?
48	48	150146LCS	229 ✓
49	49	150146LCSD	230 ✓
50	50	150146BLK	231 ✓
51	51	190-94-3	232

Method and Injection Info Part:

Sequence Table (Back Injector):

667 454

PSR024 8/16/00 13:36:12 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: YUSHINSKI

METHOD: QS Herbicides (8151A)

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u> <u>RCVD</u>	<u>QTY</u> <u>REQD</u>
21B,C CLP1	DHPDW-1-04	___	259535	054156	A-64-QS	COH110155	001		SOLID	0	4 1
21B,C CLP1	DHPE3-1-04	___	259536	054156	A-64-QS	COH110155	002	RC	SOLID	0	4 1
21B,C CLP1	DHPE4-1-04	___	259537	054156	A-64-QS	COH110155	003		SOLID	0	4 1
21B,C CLP1	DHPE6-1-04	___	259538	054156	A-64-QS	COH110155	004		SOLID	0	4 1
21B,C CLP1	DHPE7-1-04	___	259539	054156	A-64-QS	COH110155	005		SOLID	0	4 1
21B,C CLP1	DHPE8-1-04	___	259540	054156	A-64-QS	COH110155	006		SOLID	0	4 1
21B,C CLP1	DHPE9-1-04	___	259541	054156	A-64-QS	COH110155	007		SOLID	0	4 1
21B,C CLP1	DHPEA-1-04	___	259542	054156	A-64-QS	COH110155	008		SOLID	0	4 1
21B,C CLP1	DHPED-1-04	___	259543	054156	A-64-QS	COH110155	009		SOLID	0	4 1
21B,C CLP1	DHPEE-1-04	___	259544	054156	A-64-QS	COH110155	010		SOLID	0	4 1
21B CLP	DHPF2-1-04	___	259545	357464	A-64-QS	COH110157	001		SOLID	0	4 1
21E CLP1	DHQXN-1-05	___	259546	399411	A-64-QS	COH120157	001		SOLID	0	3 1
21E CLP1	DHQXQ-1-05	___	259547	399411	A-64-QS	COH120157	002		SOLID	0	3 1
21E CLP1	DHQXR-1-05	___	259548	399411	A-64-QS	COH120157	003		SOLID	0	3 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

P. Yushinski
P. YushinskiP. Yushinski
P. Yushinski8-16-00 1545
8-16-00 2350

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

STL Pittsburgh

4058

100

METALS DATA

667 456

STL-Pittsburgh

Cover Page - Inorganic Analysis Data Package

Client ID	Lab Sample ID:
DF/S1/0224/GRAB/005	DHQXN
DF/S1/0224/GRAB/005D	DHQXND
DF/S1/0224/GRAB/005S	DHQXNS
DF/S1/0224/SDC/024	DHQQQ
DF/S1/0224/SDC/025	DHQXR

Comments: UXB, DUNN FIELD
COH120157
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: <u>MTW</u>
DATE: <u>8-17-00</u>

667 457

**METALS
RESULTS**

667 453

STL-Pittsburgh
Metals Data Reporting Form

Sample Results

Lab Sample ID: DHQXN Client ID: DF/S1/0224/GRAB/005
Matrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162
Weight: 1.00 Volume: 100 Percent Moisture: 10.69

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	1.1	9.4		1	ICPST	8/15/00	13:34

Comments: Lot #: C0H120157 Sample #: 1

Version 4.10.2

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

Form 1 Equivalent

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHQXQ Client ID: DF/S1/0224/SDC/024
Matrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162
Weight: 1.00 Volume: 100 Percent Moisture: 11.12

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	1.1	9.9		1	ICPST	8/15/00	13:51

Comments: Lot #: C0H120157 Sample #: 2

Version 4.10.2

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

Form 1 Equivalent

667 460

STL-Pittsburgh
Metals Data Reporting FormSample Results

Lab Sample ID: DHQXR Client ID: DF/S1/0224/SDC/025
Matrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162
Weight: 1.00 Volume: 100 Percent Moisture: 13.97

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	1.2	9.5		1	ICPST	8/15/00	13:55

Comments: Lot #: C0H120157 Sample #: 3

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

667 461

Initial Calibration Verification Standard

Instrument: ICPSTUnits: ug/LChart Number: T00815B.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0057-022-8

			ICV3-1 8/15/00 9:06 AM							
	WL/ Mass	True Conc	% Found Rec		% Found Rec		% Found Rec		% Found Rec	
Element			Found	Rec	Found	Rec	Found	Rec	Found	Rec
Arsenic	189.042	250.0	255.97	102.4						

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T00815B.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0057-023-9

Element	WL/ Mass	True Conc	CCV3-1 8/15/00 9:58 AM		CCV3-2 8/15/00 10:48 AM		CCV3-3 8/15/00 11:38 AM		CCV3-4 8/15/00 12:28 PM		CCV3-5 8/15/00 1:17 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	510.79	102.2	512.57	102.5	514.03	102.8	512.86	102.6	513.65	102.7

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T00815B.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0057-023-9

			CCV3-6 8/15/00 1:59 PM							
Element	WL/ Mass	True Conc	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	509.31	101.9						

667 464

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00815B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 8/15/00 9:10 AM							
			Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	10	2.6	U						

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00815B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 8/15/00 10:02 AM	CCB2 8/15/00 10:52 AM	CCB3 8/15/00 11:42 AM	CCB4 8/15/00 12:32 PM	CCB5 8/15/00 1:22 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Arsenic	189.042	10	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U

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STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00815B.ARC

Standard Source: _____

Standard ID: _____

			CCB6 8/15/00 2:03 PM				
Element	WL/ Mass	Report Limit	Found Q	Found Q	Found Q	Found Q	Found Q
Arsenic	189.042	10	2.6 U				

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DHRK1BMatrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162Weight: 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	8/15/00	13:26

Comments: Lot #: C0H120157

Version 4.10.2

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

Form 3 Equivalent

667 463

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPSTUnits: ug/LChart Number: T00815B.ARCAcceptable Range: 0% - 0%Standard Source: Inorganic VenturesStandard ID: 0057-011-1

				ICSA 8/15/00 9:18 AM				
Element	WL/ Mass	Reporting Limit	True Conc	Found	Found	Found	Found	Found
Arsenic	189.042	10		1				

Interference Check Standard AB

Instrument: ICPSTUnits: ug/LChart Number: T00815B.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0014-197-7

Element	WL/ Mass	True Conc	ICSAB 8/15/00 9:23 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	1000	1044.2	104.4								

667 470

STL-Pittsburgh
Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DHQXNSOriginal Sample ID: DHQXN Client ID: DF/S1/0224/GRAB/005SMatrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162Weight: 1.00 Volume: 100 Percent Moisture: 10.69

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	9.4		211		223.94	90.0	1	1	ICPST	8/15/00	13:34	8/15/00	13:42

Comments: Lot #: COH120157 Sample #: 1

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

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DHQXND
 Original Sample ID: DHQXN Client ID: DF/S1/0224/GRAB/005D
 Matrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162
 Weight: 1.00 Volume: 100 Percent Moisture: 10.69

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	9.4		212		223.94	90.2	1	1	ICPST	8/15/00	13:34	8/15/00	13:47

Comments: Lot #: C0H120157 Sample #: 1

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

667 472

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DHQXNDMatrix Spike Sample ID: DHGXNS Client ID: DF/S1/0224/GRAB/005DMatrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162Weight: 1.00 Volume: 100 Percent Moisture: 10.69

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	211		212		0.2 %	1	1	ICPST	8/15/00	13:42	8/15/00	13:47

Comments: Lot #: C0H120157 Sample #: 1

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

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DHRK1CMatrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162Weight: 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	102.7		80-120	1	ICPST	8/15/00	13:30

Comments: Lot #: C0H120157

Version 4.10.2

STL Pittsburgh

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

5019

667 474

STL-Pittsburgh
Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DHQXNPOriginal Sample ID: DHQXN Client ID: DF/S1/0224/GRAB/005Matrix: Soil Units: mg/kg Prep Date: 8/14/00 Prep Batch: 0227162Weight: 1.00 Volume: 100 Percent Moisture: 10.69

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	9.4		10.3			1	5	ICPST	8/15/00	13:34	8/15/00	13:38

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

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPSTUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Arsenic	189.04	10	2.6	4/1/00

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STL-Pittsburgh

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)

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPSTUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Arsenic	189.04	10000	6/15/00

STL-Pittsburgh

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Metals Data Reporting Form

Preparation Log

Preparation Batch: 0227162 Instrument: ICP Matrix: Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DHRK1B	8/14/00	1.00	100	NA
DHRK1C	8/14/00	1.00	100	NA
DHQXN	8/14/00	1.00	100	10.69
DHQXND	8/14/00	1.00	100	10.69
DHQXNS	8/14/00	1.00	100	10.69
DHQXQ	8/14/00	1.00	100	11.12
DHQXR	8/14/00	1.00	100	13.97

STL-Pittsburgh
Metals Data Reporting Form

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Instrument Runlog

Instrument: ICPST

Chart Number: T00815B.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		8/15/00	8:37
ZZZZZZ		8/15/00	8:41
ZZZZZZ		8/15/00	8:45
STD1		8/15/00	8:54
STD6		8/15/00	8:58
STD7		8/15/00	9:02
ICV3-1		8/15/00	9:06
ICB1		8/15/00	9:10
ZZZZZZ		8/15/00	9:14
ICSA		8/15/00	9:18
ICSAB		8/15/00	9:23
ZZZZZZ		8/15/00	9:29
ZZZZZZ		8/15/00	9:33
ZZZZZZ		8/15/00	9:37
ZZZZZZ		8/15/00	9:41
ZZZZZZ		8/15/00	9:46
ZZZZZZ		8/15/00	9:50
ZZZZZZ		8/15/00	9:54
CCV3-1		8/15/00	9:58
CCB1		8/15/00	10:02
ZZZZZZ		8/15/00	10:06
ZZZZZZ		8/15/00	10:10
ZZZZZZ		8/15/00	10:15
ZZZZZZ		8/15/00	10:19
ZZZZZZ		8/15/00	10:23
ZZZZZZ		8/15/00	10:27
ZZZZZZ		8/15/00	10:31
ZZZZZZ		8/15/00	10:35
ZZZZZZ		8/15/00	10:40
ZZZZZZ		8/15/00	10:44
CCV3-2		8/15/00	10:48
CCB2		8/15/00	10:52
ZZZZZZ		8/15/00	10:56
ZZZZZZ		8/15/00	11:00
ZZZZZZ		8/15/00	11:04
ZZZZZZ		8/15/00	11:09
ZZZZZZ		8/15/00	11:13
ZZZZZZ		8/15/00	11:17
ZZZZZZ		8/15/00	11:21

STL-Pittsburgh

Metals Data Reporting Form

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Instrument Runlog

Instrument: ICPST

Chart Number: T00815B.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		8/15/00	11:25
ZZZZZZ		8/15/00	11:29
ZZZZZZ		8/15/00	11:34
CCV3-3		8/15/00	11:38
CCB3		8/15/00	11:42
ZZZZZZ		8/15/00	11:46
ZZZZZZ		8/15/00	11:50
ZZZZZZ		8/15/00	11:54
ZZZZZZ		8/15/00	11:58
ZZZZZZ		8/15/00	12:03
ZZZZZZ		8/15/00	12:07
ZZZZZZ		8/15/00	12:11
ZZZZZZ		8/15/00	12:15
ZZZZZZ		8/15/00	12:19
ZZZZZZ		8/15/00	12:23
CCV3-4		8/15/00	12:28
CCB4		8/15/00	12:32
ZZZZZZ		8/15/00	12:36
ZZZZZZ		8/15/00	12:40
ZZZZZZ		8/15/00	12:44
ZZZZZZ		8/15/00	12:48
ZZZZZZ		8/15/00	12:52
ZZZZZZ		8/15/00	12:57
ZZZZZZ		8/15/00	13:01
ZZZZZZ		8/15/00	13:05
ZZZZZZ		8/15/00	13:09
ZZZZZZ		8/15/00	13:13
CCV3-5		8/15/00	13:17
CCB5		8/15/00	13:22
DHRK1B		8/15/00	13:26
DHRK1C		8/15/00	13:30
DHQXN	DF/S1/0224/GRAB/005	8/15/00	13:34
DHQXNP	DF/S1/0224/GRAB/005	8/15/00	13:38
DHQXNS	DF/S1/0224/GRAB/005S	8/15/00	13:42
DHQXND	DF/S1/0224/GRAB/005D	8/15/00	13:47
DHQXQ	DF/S1/0224/SDC/024	8/15/00	13:51
DHQXR	DF/S1/0224/SDC/025	8/15/00	13:55
CCV3-6		8/15/00	13:59
CCB6		8/15/00	14:03

STL-Pittsburgh
Metals Data Reporting Form

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Instrument Runlog

Instrument: ICPST

Chart Number: T00815B.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		8/15/00	14:17
ZZZZZZ		8/15/00	14:21
ZZZZZZ		8/15/00	14:25
ZZZZZZ		8/15/00	14:29
ZZZZZZ		8/15/00	14:33
ZZZZZZ		8/15/00	14:38
ZZZZZZ		8/15/00	14:42
ZZZZZZ		8/15/00	14:46
ZZZZZZ		8/15/00	14:50
ZZZZZZ		8/15/00	14:54
ZZZZZZ		8/15/00	14:58
ZZZZZZ		8/15/00	15:03
ZZZZZZ		8/15/00	15:07
ZZZZZZ		8/15/00	15:12
ZZZZZZ		8/15/00	15:16
ZZZZZZ		8/15/00	15:20
ZZZZZZ		8/15/00	15:24

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METALS
RAW DATA

COH120157

Analysis Report ~~COH120157~~ Averages

08/15/00 03:31:33 PM

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Sample Name AS

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1	STD1	-.01215
2	STD6	5.84137
3	STD7	
4	ICV3-1 0057-022-8	.25597
5	ICB1	-.00043
6	CRA-1 0014-101-1	.01018
7	ICSA 0057-011-1	.00121
8	ICSAB 0014-197-7	1.0442
9	DHFGRB	-.00031
10	DHFGRC	1.9998
11	DHDPP	.00289
12	DHDPPP5	.00011
13	DHDPPS	1.9465
14	DHDPPD	1.9462
15	DHDPT	.00831
16	CCV3-1 0057-023-9	.51079
17	CCB1	.00108
18	DHDQ0	.00010
19	DHDQ3	.00011
20	DHDQ9	.00701
21	DHDQA	.00607
22	DHDQD	.00409
23	DHDQE	.00087
24	DHDQG	.00000
25	DHDQH	-.00033
26	DHDQM	.00636
27	DHDQQ	.00108
28	CCV3-2	.51257
29	CCB2	-.00095
30	DHDQV	.00058
31	DHDR0	.00009
32	DHDR5	.00151
33	DHDR8	.00015
34	DHDRH	.00078
35	DH4QPB	.00002
36	DH4QPC	1.9938
37	DG7DJ	.00118
38	DG7E2	.00129
39	DG7E3	.00064
40	CCV3-3	.51403
41	CCB3	.00113
42	DG7E4	.00036
43	DG7E5	.00016
44	DGG3T	.00138
45	DGG44	.00024
46	DGJLV	.00169
47	DGJLX	.00085
48	DGJM2	.00158
49	DGJM4	.00113
50	DGJM4P5	.00010
51	DGJM4S	1.9942
52	CCV3-4	.51286
53	CCB4	.00069

#	Sample Name	AS
54	DGJM4D	2.0558
55	DGJM6	.00177
56	DGLQQ	.00088
57	DGLR0	.01026
58	DGNRC	.00137
59	DGNRF	.01827
60	DGR3H	.00093
61	DGR3L	.00106
62	DGTKV	.01960
63	DH1RV	.00188
64	CCV3-5	.51365
65	CCB5	-.00071
66	DHRK1B	-.00043
67	DHRK1C	2.0538
68	DHQXN	.08427
69	DHQXNP5	.01839
70	DHQXNS	1.8843
71	DHQXND	1.8886
72	DHQXQ	.08751
73	DHQXR	.08198
74	CCV3-6	.50931
75	CCB6	.00158
76	DHLM1B	.00015
77	DHLM1C	2.0057
78	DHK0V	.00296
79	DHK0VP5	.00122
80	DHK0VS	2.0270
81	DHK0VD	2.0370
82	CCV3-7	.50740
83	CCB7	.00020
84	DHM01B	.00055
85	DHM01C	1.9988
86	DHK3T	.01067
87	DHK3TP5	.00090
88	DHK3TS	1.7019
89	DHK3TD	1.8144
90	DHM01B Rerun	.00049
91	CCV3-8	.50732
92	CCB8	-.00091

PB 81500

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485

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	T00815B	METTRA	08/15/00	08:54		X	IR
2	STD6	T00815B	METTRA	08/15/00	08:58		X	IR
3	STD7	T00815B	METTRA	08/15/00	09:02		X	IR
4	ICV3-1 0057-022-8	T00815B	METTRA	08/15/00	09:06	RJG	S	CONC
5	ICB1	T00815B	METTRA	08/15/00	09:10	RJG	S	CONC
6	CRA-1 0014-101-1	T00815B	METTRA	08/15/00	09:14	RJG	S	CONC
7	ICSA 0057-011-1	T00815B	METTRA	08/15/00	09:18	RJG	Q	CONC
8	ICSAB 0014-197-7	T00815B	METTRA	08/15/00	09:23	RJG	Q	CONC
9	DHFGRB	T00815B	METTRA	08/15/00	09:29	RJG	S	CONC
10	DHFGRC	T00815B	METTRA	08/15/00	09:33	RJG	S	CONC
11	DHDPP	T00815B	METTRA	08/15/00	09:37	RJG	S	CONC
12	DHDPPP5	T00815B	METTRA	08/15/00	09:41	RJG	S	CONC
13	DHDPPS	T00815B	METTRA	08/15/00	09:46	RJG	S	CONC
14	DHDPPD	T00815B	METTRA	08/15/00	09:50	RJG	S	CONC
15	DHDPT	T00815B	METTRA	08/15/00	09:54	RJG	S	CONC
16	CCV3-1 0057-023-9	T00815B	METTRA	08/15/00	09:58	RJG	S	CONC
17	CCB1	T00815B	METTRA	08/15/00	10:02	RJG	S	CONC
18	DHDQ0	T00815B	METTRA	08/15/00	10:06	RJG	S	CONC
19	DHDQ3	T00815B	METTRA	08/15/00	10:10	RJG	S	CONC
20	DHDQ9	T00815B	METTRA	08/15/00	10:15	RJG	S	CONC
21	DHDQA	T00815B	METTRA	08/15/00	10:19	RJG	S	CONC
22	DHDQD	T00815B	METTRA	08/15/00	10:23	RJG	S	CONC
23	DHDQE	T00815B	METTRA	08/15/00	10:27	RJG	S	CONC
24	DHDQG	T00815B	METTRA	08/15/00	10:31	RJG	S	CONC
25	DHDQH	T00815B	METTRA	08/15/00	10:35	RJG	S	CONC
26	DHDQM	T00815B	METTRA	08/15/00	10:40	RJG	S	CONC
27	DHDQQ	T00815B	METTRA	08/15/00	10:44	RJG	S	CONC
28	CCV3-2	T00815B	METTRA	08/15/00	10:48	RJG	S	CONC
29	CCB2	T00815B	METTRA	08/15/00	10:52	RJG	S	CONC
30	DHDQV	T00815B	METTRA	08/15/00	10:56	RJG	S	CONC
31	DHDR0	T00815B	METTRA	08/15/00	11:00	RJG	S	CONC
32	DHDR5	T00815B	METTRA	08/15/00	11:04	RJG	S	CONC
33	DHDR8	T00815B	METTRA	08/15/00	11:09	RJG	S	CONC
34	DHDRH	T00815B	METTRA	08/15/00	11:13	RJG	S	CONC
35	DH4QPB	T00815B	METTRA	08/15/00	11:17	RJG	S	CONC
36	DH4QPC	T00815B	METTRA	08/15/00	11:21	RJG	S	CONC
37	DG7DJ	T00815B	METTRA	08/15/00	11:25	RJG	S	CONC
38	DG7E2	T00815B	METTRA	08/15/00	11:29	RJG	S	CONC
39	DG7E3	T00815B	METTRA	08/15/00	11:34	RJG	S	CONC
40	CCV3-3	T00815B	METTRA	08/15/00	11:38	RJG	S	CONC
41	CCB3	T00815B	METTRA	08/15/00	11:42	RJG	S	CONC
42	DG7E4	T00815B	METTRA	08/15/00	11:46	RJG	S	CONC
43	DG7E5	T00815B	METTRA	08/15/00	11:50	RJG	S	CONC
44	DGG3T	T00815B	METTRA	08/15/00	11:54	RJG	S	CONC
45	DGG44	T00815B	METTRA	08/15/00	11:58	RJG	S	CONC
46	DGJLV	T00815B	METTRA	08/15/00	12:03	RJG	S	CONC
47	DGJLX	T00815B	METTRA	08/15/00	12:07	RJG	S	CONC
48	DGJM2	T00815B	METTRA	08/15/00	12:11	RJG	S	CONC
49	DGJM4	T00815B	METTRA	08/15/00	12:15	RJG	S	CONC
50	DGJM4P5	T00815B	METTRA	08/15/00	12:19	RJG	S	CONC
51	DGJM4S	T00815B	METTRA	08/15/00	12:23	RJG	S	CONC
52	CCV3-4	T00815B	METTRA	08/15/00	12:28	RJG	S	CONC
53	CCB4	T00815B	METTRA	08/15/00	12:32	RJG	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	DGJM4D	T00815B	METTRA	08/15/00	12:36	RJG	S	CONC
55	DGJM6	T00815B	METTRA	08/15/00	12:40	RJG	S	CONC
56	DGLQQ	T00815B	METTRA	08/15/00	12:44	RJG	S	CONC
57	DGLR0	T00815B	METTRA	08/15/00	12:48	RJG	S	CONC
58	DGNRC	T00815B	METTRA	08/15/00	12:52	RJG	S	CONC
59	DGNRF	T00815B	METTRA	08/15/00	12:57	RJG	S	CONC
60	DGR3H	T00815B	METTRA	08/15/00	13:01	RJG	S	CONC
61	DGR3L	T00815B	METTRA	08/15/00	13:05	RJG	S	CONC
62	DGTKV	T00815B	METTRA	08/15/00	13:09	RJG	S	CONC
63	DH1RV	T00815B	METTRA	08/15/00	13:13	RJG	S	CONC
64	CCV3-5	T00815B	METTRA	08/15/00	13:17	RJG	S	CONC
65	CCB5	T00815B	METTRA	08/15/00	13:22	RJG	S	CONC
66	DHRK1B	T00815B	METTRA	08/15/00	13:26	RJG	S	CONC
67	DHRK1C	T00815B	METTRA	08/15/00	13:30	RJG	S	CONC
68	DHQXN	T00815B	METTRA	08/15/00	13:34	RJG	S	CONC
69	DHQXNP5	T00815B	METTRA	08/15/00	13:38	RJG	S	CONC
70	DHQXNS	T00815B	METTRA	08/15/00	13:42	RJG	S	CONC
71	DHQXND	T00815B	METTRA	08/15/00	13:47	RJG	S	CONC
72	DHQXQ	T00815B	METTRA	08/15/00	13:51	RJG	S	CONC
73	DHQXR	T00815B	METTRA	08/15/00	13:55	RJG	S	CONC
74	CCV3-6	T00815B	METTRA	08/15/00	13:59	RJG	S	CONC
75	CCB6	T00815B	METTRA	08/15/00	14:03	RJG	S	CONC
76	DHLM1B	T00815B	METTRA	08/15/00	14:17	RJG	S	CONC
77	DHLM1C	T00815B	METTRA	08/15/00	14:21	RJG	S	CONC
78	DHK0V	T00815B	METTRA	08/15/00	14:25	RJG	S	CONC
79	DHK0VP5	T00815B	METTRA	08/15/00	14:29	RJG	S	CONC
80	DHK0VS	T00815B	METTRA	08/15/00	14:33	RJG	S	CONC
81	DHK0VD	T00815B	METTRA	08/15/00	14:38	RJG	S	CONC
82	CCV3-7	T00815B	METTRA	08/15/00	14:42	RJG	S	CONC
83	CCB7	T00815B	METTRA	08/15/00	14:46	RJG	S	CONC
84	DHM01B	T00815B	METTRA	08/15/00	14:50	RJG	S	CONC
85	DHM01C	T00815B	METTRA	08/15/00	14:54	RJG	S	CONC
86	DHK3T	T00815B	METTRA	08/15/00	14:58	RJG	S	CONC
87	DHK3TP5	T00815B	METTRA	08/15/00	15:03	RJG	S	CONC
88	DHK3TS	T00815B	METTRA	08/15/00	15:07	RJG	S	CONC
89	DHK3TD	T00815B	METTRA	08/15/00	15:12	RJG	S	CONC
90	DHM01B Rerun	T00815B	METTRA	08/15/00	15:16	RJG	S	CONC
91	CCV3-8	T00815B	METTRA	08/15/00	15:20	RJG	S	CONC
92	CCB8	T00815B	METTRA	08/15/00	15:24	RJG	S	CONC

Method: METTRA Standard: STD1

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Run Time: 08/15/00 08:54:23

Elem	AG	AL	AS	BA	BE	CA	CD
Avge	.00127	.07862	-.01216	.00173	-.08128	.00496	.00010
SDev	.00084	.01245	.00275	.00032	.00013	.00027	.00113
%RSD	66.381	15.831	22.580	18.739	.15447	5.4697	1150.6
#1	.00067	.08742	-.01410	.00150	-.08136	.00477	-.00070
#2	.00186	.06982	-.01022	.00196	-.08119	.00516	.00090
Elem	CO	CR	CU	FE	MG	MN	MO
Avge	-.00083	.00080	.02315	-.00117	-.00049	.00151	.00247
SDev	.00034	.00017	.00263	.00077	.00026	.00015	.00003
%RSD	40.916	20.702	11.343	66.149	52.103	9.7329	1.0790
#1	-.00107	.00092	.02129	-.00171	-.00067	.00141	.00245
#2	-.00059	.00068	.02500	-.00062	-.00031	.00162	.00248
Elem	NI	PB/1	PB/2	SB/1	SB/2	SE/1	SE/2
Avge	.00031	.02387	-.01002	-.06550	.01008	-.12811	.09220
SDev	.00026	.01504	.00015	.00444	.00591	.01524	.00832
%RSD	85.540	63.024	1.5141	6.7732	58.610	11.898	9.0212
#1	.00012	.03450	-.00991	-.06864	.01425	-.11734	.08632
#2	.00050	.01323	-.01013	-.06237	.00590	-.13889	.09808
Elem	TL	V	ZN				
Avge	-.04693	.00018	.00017				
SDev	.00154	.00000	.00002				
%RSD	3.2860	1.0790	13.926				
#1	-.04802	.00018	.00015				
#2	-.04584	.00019	.00019				

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16222	--	--	--	--	--	--
SDev	175.0441	--	--	--	--	--	--
%RSD	1.079026	--	--	--	--	--	--
#1	16346	--	--	--	--	--	--
#2	16099	--	--	--	--	--	--

Method: METTRA Standard: STD6
Run Time: 08/15/00 08:58:34

0051.023.10

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Elem	AG	AS	CD	PB/1	PB/2	SB/1	SB/2
Avge	11.701	5.8414	14.159	5.8233	7.4374	10.056	7.0292
SDev	.037	.0352	.045	.0151	.0084	.002	.0291
%RSD	.31466	.60208	.31790	.25895	.11276	.02055	.41400

#1	11.727	5.8662	14.191	5.8340	7.4433	10.055	7.0497
#2	11.675	5.8165	14.127	5.8126	7.4314	10.058	7.0086

Elem	SE/1	SE/2	TL
Avge	5.6707	5.5920	4.2431
SDev	.0065	.0172	.0255
%RSD	.11375	.30685	.60088

#1	5.6752	5.5799	4.2611
#2	5.6661	5.6042	4.2251

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16315	--	--	--	--	--	--
SDev	60.70553	--	--	--	--	--	--
%RSD	.3720745	--	--	--	--	--	--

#1	16272	--	--	--	--	--	--
#2	16358	--	--	--	--	--	--

Method: METTRA Standard: STD7
Run Time: 08/15/00 09:02:45

0057.024.1

Elem	AL	BA	BE	CA	CO	CR	CU
Avge	7.7995	15.065	12.093	4.8067	3.2260	12.538	3.8867
SDev	.0880	.157	.122	.0476	.0318	.119	.0442
%RSD	1.1282	1.0422	1.0113	.98947	.98629	.95004	1.1371

#1	7.7373	14.954	12.006	4.7731	3.2035	12.454	3.8554
#2	7.8618	15.176	12.179	4.8403	3.2485	12.622	3.9179

Elem	FE	MG	MN	MO	NI	V	ZN
Avge	4.2950	14.440	10.731	2.3385	2.6664	.89024	3.2403
SDev	.0447	.151	.098	.0322	.0272	.00906	.0344
%RSD	1.0401	1.0491	.91326	1.3750	1.0200	1.0175	1.0606

#1	4.2635	14.333	10.661	2.3158	2.6472	.88384	3.2160
#2	4.3266	14.547	10.800	2.3613	2.6856	.89665	3.2646

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlén	371.030	--	--	--	--	--	--
Avge	16242	--	--	--	--	--	--
SDev	77.88808	--	--	--	--	--	--
%RSD	.4795466	--	--	--	--	--	--

#1	16297	--	--	--	--	--	--
#2	16187	--	--	--	--	--	--

Method: METTRA

Slope = Conc(SIR)/IR

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Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD6	STD1	.170948	-.000217	08/15/00 09:02:45
AL	308.215	STD7	STD1	6.49183	-.510389	08/15/00 09:02:45
AS	189.042	STD6	STD1	.170837	.002077	08/15/00 09:02:45
BA	493.409	STD7	STD1	.265545	-.000459	08/15/00 09:02:45
BE	313.042	STD7	STD1	.325987	.026495	08/15/00 09:02:45
CA	317.933	STD7	STD1	20.8259	-.103374	08/15/00 09:02:45
CD	226.502	STD6	STD1	.070625	-.000007	08/15/00 09:02:45
CO	228.616	STD7	STD1	1.23960	.001029	08/15/00 09:02:45
CR	267.716	STD7	STD1	.318896	-.000255	08/15/00 09:02:45
CU	324.753	STD7	STD1	1.03533	-.023963	08/15/00 09:02:45
FE	271.441	STD7	STD1	11.7218	.013680	08/15/00 09:02:45
MG	279.078	STD7	STD1	6.92493	.003405	08/15/00 09:02:45
MN	257.610	STD7	STD1	.372819	-.000563	08/15/00 09:02:45
MO	202.030	STD7	STD1	1.71227	-.004222	08/15/00 09:02:45
NI	231.604	STD7	STD1	1.49934	-.000464	08/15/00 09:02:45
PB/1	220.351	STD6	STD1	.172431	-.004115	08/15/00 09:02:45
PB/2	220.352	STD6	STD1	.134275	.001345	08/15/00 09:02:45
PB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SB/1	206.831	STD6	STD1	.098799	.006472	08/15/00 09:02:45
SB/2	206.832	STD6	STD1	.142469	-.001436	08/15/00 09:02:45
SB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SE/1	196.021	STD6	STD1	.172450	.022093	08/15/00 09:02:45
SE/2	196.022	STD6	STD1	.181824	-.016764	08/15/00 09:02:45
SE	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
TL	190.864	STD6	STD1	.466198	.021880	08/15/00 09:02:45
V	292.402	STD7	STD1	4.47447	-.000828	08/15/00 09:02:45
ZN	213.856	STD7	STD1	1.24228	-.000211	08/15/00 09:02:45

Method: METTRA Sample Name: ICV3-1 0057-022-8 Operator: RJG
 Run Time: 08/15/00 09:06:25
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Reburged
81500

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51273	12.043	.25598	1.0184	1.0252	25.518	.24922
SDev	.00174	.002	.00166	.0003	.0214	.488	.00105
%RSD	.34004	.01274	.64715	.02552	2.0864	1.9113	.42038
#1	.51150	12.042	.25715	1.0186	1.0403	25.863	.24996
#2	.51396	12.044	.25481	1.0182	1.0100	25.173	.24847
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
Avg	1.0256	1.0306	.98262	12.571	24.547	1.0056	1.0414
SDev	.0054	.0024	.00088	.010	.212	.0009	.0086
%RSD	.52688	.22930	.08953	.07897	.86421	.08806	.82138
#1	1.0218	1.0290	.98324	12.578	24.697	1.0063	1.0353
#2	1.0294	1.0323	.98200	12.564	24.397	1.0050	1.0474
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
Avg	1.0340	.25309	.25791	.25631	.26301	.25523	.25782
SDev	.0290	.00139	.00538	.00313	.00991	.00021	.00344
%RSD	2.8074	.54898	2.0867	1.2200	3.7690	.08199	1.3344
#1	1.0546	.25211	.26172	.25852	.27002	.25538	.26025
#2	1.0135	.25407	.25411	.25410	.25600	.25508	.25538
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	
Avg	.25072	.26287	.25882	.52505	1.0329	1.0718	
SDev	.00458	.00745	.00344	.00915	.0185	.0140	
%RSD	1.8281	2.8344	1.3304	1.7430	1.7916	1.3036	
#1	.24748	.26814	.26126	.53152	1.0460	1.0816	
#2	.25396	.25760	.25639	.51858	1.0198	1.0619	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.27500	.55000	1.1000	1.1000	
Low			.22500	.45000	.90000	.90000	

667 493

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16261	--	--	--	--	--	--
SDev	51.97235	--	--	--	--	--	--
%RSD	.3196046	--	--	--	--	--	--
#1	16298	--	--	--	--	--	--
#2	16225	--	--	--	--	--	--

Method: METTRA Sample Name: ICB1

Operator: RJG

Run Time: 08/15/00 09:10:35

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
Avg	.00023	-.04865	-.00043	.00017	.00045	-.00166	.00018
SDev	.00047	.00294	.00221	.00023	.00011	.00475	.00023
%RSD	203.81	6.0475	509.27	130.40	23.042	285.10	126.37
#1	-.00010	-.04657	-.00200	.00001	.00038	-.00502	.00002
#2	.00056	-.05073	.00113	.00033	.00053	.00169	.00035
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
Avg	.00025	.00037	.00159	.00251	.00511	.00025	.00367
SDev	.00046	.00061	.00062	.01062	.00421	.00024	.00073
%RSD	182.90	163.54	38.930	423.53	82.457	97.905	19.818
#1	-.00007	-.00006	.00115	-.00500	.00213	.00008	.00418
#2	.00057	.00081	.00203	.01002	.00809	.00042	.00315
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
Avg	.00202	.00211	-.00106	-.00001	-.00225	.00044	-.00045
SDev	.00065	.00081	.00097	.00038	.00117	.00011	.00031
%RSD	31.925	38.423	91.763	6634.4	51.885	25.635	68.905
#1	.00248	.00268	-.00175	-.00027	-.00307	.00052	-.00067
#2	.00157	.00153	-.00037	.00026	-.00142	.00036	-.00023
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	
Avg	-.00023	-.00010	-.00015	.00132	.00027	-.00028	
SDev	.00559	.00028	.00167	.00230	.00078	.00014	
%RSD	2404.5	273.64	1139.1	174.49	286.32	49.147	
#1	.00372	-.00031	.00104	-.00031	-.00028	-.00037	
#2	-.00419	.00010	-.00133	.00295	.00083	-.00018	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

						667	495
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16279	--	--	--	--	--	--
SDev	35.70889	--	--	--	--	--	--
%RSD	.2193535	--	--	--	--	--	--
#1	16304	--	--	--	--	--	--
#2	16254	--	--	--	--	--	--

Method: METTRA Sample Name: CRA-1 0014-101-1 Operator: RJG
 Run Time: 08/15/00 09:14:44
 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
Avg	-.00005	.13505	.01019	.20230	.00542	5.1053	.00205
SDev	.00011	.00681	.00044	.00041	.00018	.0170	.00005
%RSD	202.51	5.0450	4.2836	.20254	3.2844	.33242	2.2113
#1	-.00013	.13987	.00988	.20259	.00529	5.1173	.00202
#2	.00002	.13023	.01050	.20201	.00555	5.0933	.00208
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	LC Pass
High			.01500				.00300
Low			.00500				.00100
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00032	.01022	.02617	.07798	4.8164	.01540	-.00039
SDev	.00013	.00006	.00009	.00543	.0137	.00003	.00053
%RSD	41.257	.63020	.34570	6.9678	.28403	.18939	133.81
#1	-.00023	.01027	.02611	.07414	4.8261	.01538	-.00002
#2	-.00041	.01018	.02624	.08182	4.8067	.01542	-.00077
Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High		.01500					
Low		.00500					
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04389	.00554	.00182	.00306	.06024	.06408	.06280
SDev	.00075	.00208	.00025	.00053	.00234	.00068	.00033
%RSD	1.7039	37.527	13.624	17.225	3.8780	1.0534	.52178
#1	.04441	.00701	.00165	.00343	.05858	.06455	.06257
#2	.04336	.00407	.00200	.00269	.06189	.06360	.06303
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High				.00450			.09000
Low				.00150			.03000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00706	.00471	.00549	.00045	.00084	.02637	
SDev	.00094	.00227	.00120	.00424	.00232	.00003	
%RSD	13.288	48.154	21.864	938.28	276.18	.11284	
#1	.00772	.00311	.00464	-.00255	-.00080	.02639	
#2	.00639	.00632	.00634	.00345	.00248	.02635	
Errors	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	
High			.00750				
Low			.00250				

667 497

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16329	--	--	--	--	--	--
SDev	36.23922	--	--	--	--	--	--
%RSD	.2219313	--	--	--	--	--	--
#1	16303	--	--	--	--	--	--
#2	16355	--	--	--	--	--	--

Method: METTRA Sample Name: ICSA 0057-011-1 Operator: RJG
 Run Time: 08/15/00 09:18:53
 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	.00016	528.59	.00121	.00141	-.00156	489.99	.00076
SDev	.00020	.68	.00059	.00002	.00009	.05	.00046
%RSD	124.91	.12916	48.920	1.4746	5.6230	.01088	59.747
#1	.00002	528.11	.00079	.00140	-.00162	489.96	.00044
#2	.00030	529.07	.00163	.00142	-.00150	490.03	.00109
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	.00054	.00292	.00233	209.74	538.57	.00839	-.00473
SDev	.00011	.00003	.00085	.20	.11	.00005	.00056
%RSD	21.144	1.1417	36.422	.09553	.02078	.54431	11.777
#1	.00046	.00290	.00173	209.60	538.65	.00836	-.00433
#2	.00062	.00295	.00293	209.89	538.49	.00842	-.00512
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	.00239	-.05281	.02983	.00231	.00038	-.00413	-.00263
SDev	.00042	.00476	.00281	.00346	.00286	.00100	.00029
%RSD	17.619	9.0146	9.4223	149.74	749.11	24.122	10.969
#1	.00209	-.04944	.03182	.00476	.00241	-.00484	-.00243
#2	.00269	-.05617	.02784	-.00014	-.00164	-.00343	-.00283
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	-.00441	-.01055	-.00850	.00443	.00149	.00378	
SDev	.00565	.00247	.00024	.00184	.00019	.00004	
%RSD	128.00	23.374	2.7811	41.513	12.733	1.0398	
#1	-.00841	-.00880	-.00867	.00313	.00136	.00375	
#2	-.00042	-.01229	-.00834	.00572	.00163	.00381	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	
Value							
Range							

667 499

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15238	--	--	--	--	--	--
SDev	18.84467	--	--	--	--	--	--
%RSD	.1236708	--	--	--	--	--	--
#1	15251	--	--	--	--	--	--
#2	15224	--	--	--	--	--	--

Method: METTRA Sample Name: ICSAB 0014-197-7 Operator: RJG

Run Time: 08/15/00 09:23:03

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	1.1447	535.18	1.0442	.54598	.50956	498.43	.94879
SDev	.0013	.75	.0045	.00164	.00233	1.77	.00387
%RSD	.11479	.14063	.42770	.30098	.45747	.35592	.40797
#1	1.1456	535.71	1.0474	.54714	.51121	499.68	.95153
#2	1.1438	534.65	1.0411	.54482	.50791	497.17	.94605
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	.51342	.52446	.57219	213.86	545.74	.52941	1.0304
SDev	.00109	.00049	.00060	.56	1.54	.00104	.0044
%RSD	.21166	.09380	.10545	.26301	.28161	.19710	.42489
#1	.51418	.52481	.57262	214.26	546.83	.53014	1.0274
#2	.51265	.52411	.57176	213.47	544.66	.52867	1.0335
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	1.0304	1.0229	1.0565	1.0453	1.0821	1.0834	1.0830
SDev	.0064	.0103	.0048	.0002	.0126	.0061	.0002
%RSD	.61639	1.0069	.45558	.02100	1.1671	.55903	.01529
#1	1.0349	1.0302	1.0531	1.0455	1.0731	1.0877	1.0828
#2	1.0259	1.0156	1.0599	1.0452	1.0910	1.0791	1.0831
Errors	QC Pass	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	1.0296	1.0516	1.0443	1.1032	.52973	1.1058	
SDev	.0061	.0065	.0023	.0016	.00065	.0054	
%RSD	.59244	.62258	.22368	.14790	.12269	.48415	
#1	1.0339	1.0470	1.0426	1.1021	.53019	1.1096	
#2	1.0253	1.0563	1.0459	1.1044	.52927	1.1020	
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	

	1	2	3	4	5	6	7
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15125	--	--	--	--	--	--
SDev	70.56912	--	--	--	--	--	--
%RSD	.4665804	--	--	--	--	--	--
#1	15075	--	--	--	--	--	--
#2	15175	--	--	--	--	--	--

667 501

Method: METTRA Sample Name: DHFGRB

Operator: RJG

Run Time: 08/15/00 09:29:29

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	-.00029	-.01260	-.00031	-.00034	-.00045	.05363	.00011
SDev	.00005	.00982	.00051	.00001	.00007	.00286	.00006
%RSD	15.448	77.953	163.40	3.6679	16.318	5.3253	55.007
#1	-.00026	-.00566	.00005	-.00033	-.00050	.05565	.00015
#2	-.00032	-.01955	-.00067	-.00035	-.00039	.05161	.00007
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	-.00082	-.00019	.00182	.00491	.02517	-.00028	-.00121
SDev	.00065	.00021	.00016	.00416	.00445	.00003	.00002
%RSD	78.458	113.87	8.5932	84.710	17.663	11.091	1.5939
#1	-.00128	-.00034	.00171	.00197	.02831	-.00030	-.00120
#2	-.00037	-.00004	.00193	.00786	.02203	-.00026	-.00122
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	.00123	.00139	.00042	.00074	.00067	.00068	.00068
SDev	.00081	.00133	.00070	.00091	.00061	.00003	.00022
%RSD	65.657	96.074	168.41	123.21	91.861	4.1081	32.910
#1	.00181	.00233	.00091	.00138	.00110	.00070	.00084
#2	.00066	.00044	-.00008	.00010	.00023	.00066	.00052
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	-.00257	-.00083	-.00141	.00080	-.00012	.00128	
SDev	.00180	.00131	.00028	.00301	.00020	.00013	
%RSD	69.784	158.61	19.718	374.91	158.21	10.244	
#1	-.00130	-.00176	-.00161	.00294	-.00026	.00119	
#2	-.00384	.00010	-.00121	-.00133	.00001	.00138	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

667 503

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15919	--	--	--	--	--	--
SDev	101.9649	--	--	--	--	--	--
%RSD	.6405416	--	--	--	--	--	--
#1	15846	--	--	--	--	--	--
#2	15991	--	--	--	--	--	--

Method: METTRA Sample Name: DHFGRC

Operator: RJG

Run Time: 08/15/00 09:33:38

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	.05098	2.0116	1.9998	2.0031	.04984	50.311	.04792
SDev	.00007	.0092	.0114	.0008	.00017	.212	.00029
%RSD	.13688	.45673	.57200	.04001	.34355	.42217	.60479
#1	.05103	2.0181	2.0078	2.0037	.04996	50.461	.04812
#2	.05093	2.0051	1.9917	2.0026	.04972	50.161	.04771
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	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	.50811	.20405	.25177	.95835	49.006	.49931	1.0335
SDev	.00077	.00003	.00012	.00086	.103	.00122	.0009
%RSD	.15108	.01645	.04668	.08929	.20975	.24350	.08244
#1	.50866	.20408	.25185	.95895	49.079	.50017	1.0329
#2	.50757	.20403	.25168	.95774	48.933	.49845	1.0341
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
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	.50600	.51442	.50344	.50710	.51051	.50858	.50922
SDev	.00086	.00212	.00100	.00004	.00279	.00147	.00005
%RSD	.17059	.41255	.19766	.00847	.54641	.28824	.00960
#1	.50661	.51292	.50415	.50707	.51248	.50754	.50919
#2	.50539	.51593	.50274	.50713	.50853	.50961	.50926
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
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	1.9937	2.0206	2.0117	2.1198	.50363	.52867	
SDev	.0087	.0097	.0093	.0032	.00125	.00172	
%RSD	.43531	.47835	.46414	.15233	.24877	.32461	
#1	1.9999	2.0275	2.0183	2.1221	.50452	.52988	
#2	1.9876	2.0138	2.0051	2.1175	.50275	.52746	
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	16065	--	--	--	--	--	--
SDev	14.81333	--	--	--	--	--	--
%RSD	.0922083	--	--	--	--	--	--
#1	16055	--	--	--	--	--	--
#2	16076	--	--	--	--	--	--

Method: METTRA Sample Name: DHDPP

Operator: RJG

Run Time: 08/15/00 09:37:47

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
Avg	.00043	11.461	.00289	.02861	.00549	53.467	.00069
SDev	.00065	.024	.00054	.00005	.00012	.089	.00031
%RSD	150.07	.20512	18.774	.18532	2.1906	.16614	45.134
#1	-.00003	11.445	.00251	.02857	.00557	53.404	.00047
#2	.00089	11.478	.00328	.02865	.00540	53.530	.00091
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
Avg	.12831	.00538	.01193	4.9628	20.688	3.4829	.00123
SDev	.00027	.00047	.00005	.0502	.048	.0093	.00067
%RSD	.20862	8.6390	.43809	1.0121	.23183	.26700	54.290
#1	.12812	.00505	.01189	4.9273	20.654	3.4763	.00171
#2	.12850	.00571	.01196	4.9983	20.722	3.4895	.00076
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
Avg	.15844	.00122	.00361	.00281	.00083	.00069	.00074
SDev	.00013	.00070	.00119	.00056	.00160	.00118	.00025
%RSD	.08278	57.477	32.933	19.873	192.01	171.35	34.474
#1	.15835	.00172	.00277	.00242	.00197	-.00015	.00056
#2	.15853	.00072	.00445	.00321	-.00030	.00152	.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	
Avg	-.00359	.00497	.00212	-.00244	.00187	.41367	
SDev	.00255	.00185	.00038	.00315	.00021	.00077	
%RSD	71.044	37.101	17.955	129.03	11.423	.18620	
#1	-.00179	.00367	.00185	-.00467	.00172	.41313	
#2	-.00540	.00628	.00239	-.00021	.00203	.41421	
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	

	1	2	3	4	5	6	7
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16162	--	--	--	--	--	--
SDev	13.32869	--	--	--	--	--	--
%RSD	.0824689	--	--	--	--	--	--
#1	16172	--	--	--	--	--	--
#2	16153	--	--	--	--	--	--

667

507

Method: METTRA Sample Name: DHDPPP5

Operator: RJG

Run Time: 08/15/00 09:41:56

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	-.00062	2.1076	.00012	.00540	.00150	10.541	.00028
SDev	.00032	.0033	.00029	.00011	.00019	.050	.00006
%RSD	51.074	.15427	247.84	1.9968	12.524	.46985	22.447
#1	-.00039	2.1099	.00032	.00532	.00137	10.576	.00024
#2	-.00084	2.1053	-.00009	.00547	.00164	10.506	.00033
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02412	.00011	.00227	.96823	3.9777	.68260	-.00131
SDev	.00076	.00080	.00008	.00500	.0083	.00185	.00029
%RSD	3.1339	698.62	3.5326	.51694	.20778	.27041	21.872
#1	.02359	.00068	.00232	.97177	3.9835	.68391	-.00151
#2	.02466	-.00045	.00221	.96469	3.9718	.68130	-.00110
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03193	-.00047	.00155	.00088	.00127	.00005	.00046
SDev	.00081	.00324	.00183	.00014	.00199	.00084	.00010
%RSD	2.5197	687.96	118.22	16.284	156.77	1594.2	22.792
#1	.03136	.00182	.00025	.00078	-.00014	.00064	.00038
#2	.03250	-.00276	.00284	.00098	.00267	-.00054	.00053
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00025	.00081	.00046	-.00074	-.00049	.08119	
SDev	.00055	.00089	.00041	.00101	.00000	.00033	
%RSD	222.95	110.25	89.983	137.00	.35705	.40981	
#1	-.00064	.00144	.00075	-.00145	-.00049	.08142	
#2	.00014	.00018	.00017	-.00002	-.00049	.08095	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16439	--	--	--	--	--	--
SDev	50.20458	--	--	--	--	--	--
%RSD	.3053974	--	--	--	--	--	--
#1	16404	--	--	--	--	--	--
#2	16475	--	--	--	--	--	--

Method: METTRA Sample Name: DHDPPS

Operator: RJG

Run Time: 08/15/00 09:46:04

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	.05064	14.433	1.9465	2.0115	.05443	102.58	.04697
SDev	.00052	.003	.0013	.0008	.00022	.04	.00011
%RSD	1.0317	.02290	.06772	.04088	.40437	.04010	.24345
#1	.05101	14.431	1.9456	2.0109	.05427	102.56	.04705
#2	.05027	14.435	1.9474	2.0121	.05458	102.61	.04689
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	.62008	.20455	.26173	5.8858	70.033	3.9768	1.0084
SDev	.00098	.00065	.00011	.0045	.050	.0048	.0046
%RSD	.15739	.32024	.04092	.07587	.07182	.12107	.45923
#1	.61939	.20501	.26165	5.8827	69.998	3.9734	1.0051
#2	.62077	.20408	.26180	5.8890	70.069	3.9802	1.0117
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	.65729	.50971	.49643	.50085	.49293	.49566	.49475
SDev	.00296	.00378	.00106	.00055	.00411	.00110	.00210
%RSD	.45028	.74079	.21443	.10928	.83353	.22232	.42511
#1	.65939	.51238	.49568	.50124	.49584	.49644	.49624
#2	.65520	.50704	.49719	.50047	.49003	.49488	.49326
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	1.9249	1.9454	1.9386	2.0612	.49621	.91485	
SDev	.0045	.0118	.0064	.0052	.00231	.00091	
%RSD	.23445	.60682	.32865	.25004	.46619	.09927	
#1	1.9217	1.9538	1.9431	2.0575	.49785	.91549	
#2	1.9281	1.9371	1.9341	2.0648	.49458	.91421	
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	16213	--	--	--	--	--	--
SDev	31.07748	--	--	--	--	--	--
%RSD	.1916869	--	--	--	--	--	--
#1	16191	--	--	--	--	--	--
#2	16235	--	--	--	--	--	--

Method: METTRA Sample Name: DHDPPD

Operator: RJG

Run Time: 08/15/00 09:50:13

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	.05105	14.368	1.9462	1.9990	.05451	102.84	.04720
SDev	.00001	.036	.0013	.0024	.00005	.20	.00012
%RSD	.01644	.24838	.06891	.11765	.08439	.19239	.24264
#1	.05105	14.343	1.9471	1.9973	.05448	102.98	.04728
#2	.05104	14.393	1.9452	2.0006	.05455	102.70	.04712
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	.62063	.20486	.26051	5.8903	70.202	3.9603	1.0037
SDev	.00016	.00013	.00046	.0079	.021	.0036	.0035
%RSD	.02647	.06127	.17619	.13398	.03060	.08991	.34622
#1	.62075	.20495	.26084	5.8959	70.187	3.9577	1.0012
#2	.62052	.20477	.26019	5.8847	70.218	3.9628	1.0062
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	.64487	.51135	.49137	.49802	.48506	.49031	.48856
SDev	.00057	.00200	.00081	.00121	.00161	.00080	.00107
%RSD	.08844	.39041	.16542	.24235	.33276	.16377	.21964
#1	.64528	.50994	.49079	.49717	.48392	.48975	.48780
#2	.64447	.51276	.49194	.49888	.48620	.49088	.48932
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	1.9266	1.9470	1.9402	2.0727	.49697	.91335	
SDev	.0026	.0019	.0021	.0070	.00006	.00026	
%RSD	.13544	.09782	.11026	.33766	.01202	.02831	
#1	1.9285	1.9484	1.9417	2.0777	.49692	.91353	
#2	1.9248	1.9457	1.9387	2.0678	.49701	.91316	
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	

	1	2	3	4	5	6	7
IntStd	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Mode	Y	--	--	--	--	--	--
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16274	--	--	--	--	--	--
SDev	2.050886	--	--	--	--	--	--
%RSD	.0126025	--	--	--	--	--	--
#1	16275	--	--	--	--	--	--
#2	16272	--	--	--	--	--	--

667 513

Method: METTRA Sample Name: DHDPT

Operator: RJG

Run Time: 08/15/00 09:54:21

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	.00048	.49707	.00832	.01103	-.00002	107.57	-.00001
SDev	.00011	.00629	.00096	.00005	.00002	.25	.00012
%RSD	23.254	1.2663	11.540	.48096	142.53	.22916	1583.7
#1	.00056	.50152	.00900	.01107	-.00003	107.39	-.00009
#2	.00040	.49262	.00764	.01099	.00000	107.74	.00008
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	.04889	.00273	.00192	40.843	44.008	4.8805	.00057
SDev	.00017	.00006	.00004	.076	.089	.0106	.00082
%RSD	.34133	2.0597	2.1437	.18655	.20130	.21718	142.83
#1	.04877	.00269	.00195	40.789	43.946	4.8730	.00115
#2	.04901	.00277	.00189	40.896	44.071	4.8880	-.00001
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	.06019	.00251	.00015	.00093	-.00263	.00071	-.00040
SDev	.00112	.00056	.00022	.00004	.00051	.00066	.00027
%RSD	1.8604	22.332	149.04	4.3860	19.287	92.696	67.001
#1	.06098	.00291	-.00001	.00096	-.00227	.00024	-.00059
#2	.05940	.00211	.00030	.00091	-.00298	.00117	-.00021
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	-.00554	.00283	.00004	-.00355	.00217	.08146	
SDev	.00130	.00187	.00082	.00819	.00003	.00007	
%RSD	23.401	66.166	2043.3	230.43	1.1829	.08595	
#1	-.00463	.00150	-.00054	.00224	.00219	.08151	
#2	-.00646	.00415	.00062	-.00934	.00215	.08141	
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	

	1	2	3	4	5	6	7
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15889	--	--	--	--	--	--
SDev	73.71588	--	--	--	--	--	--
%RSD	.4639319	--	--	--	--	--	--
#1	15942	--	--	--	--	--	--
#2	15837	--	--	--	--	--	--

667 515

Method: METTRA Sample Name: CCV3-1 0057-023-9 Operator: RJG
 Run Time: 08/15/00 09:58:30
 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	1.0355	24.589	.51080	2.0278	2.0442	50.937	.49029
SDev	.0012	.045	.00091	.0060	.0046	.072	.00049
%RSD	.11382	.18103	.17754	.29805	.22294	.14203	.10000
#1	1.0363	24.620	.51144	2.0321	2.0474	50.988	.49064
#2	1.0346	24.557	.51016	2.0235	2.0409	50.886	.48994
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	2.0464	2.0482	1.9850	25.284	49.625	2.0219	2.0636
SDev	.0031	.0025	.0055	.049	.104	.0023	.0081
%RSD	.15183	.12344	.27480	.19576	.20884	.11211	.39188
#1	2.0486	2.0499	1.9889	25.319	49.698	2.0235	2.0579
#2	2.0442	2.0464	1.9812	25.249	49.551	2.0203	2.0693
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	2.0263	.51165	.51387	.51313	.52128	.51130	.51462
SDev	.0098	.00383	.01152	.00641	.01213	.00042	.00432
%RSD	.48486	.74829	2.2417	1.2489	2.3278	.08290	.84015
#1	2.0333	.50894	.52202	.51766	.52987	.51160	.51768
#2	2.0194	.51435	.50573	.50860	.51270	.51100	.51157
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	.51219	.52201	.51874	1.0344	2.0402	2.0735	
SDev	.00490	.00003	.00161	.0002	.0057	.0066	
%RSD	.95693	.00647	.31030	.02323	.27916	.31980	
#1	.50872	.52203	.51760	1.0342	2.0442	2.0782	
#2	.51565	.52198	.51988	1.0345	2.0362	2.0688	
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	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16380	--	--	--	--	--	--
SDev	25.52628	--	--	--	--	--	--
%RSD	.1558362	--	--	--	--	--	--
#1	16362	--	--	--	--	--	--
#2	16398	--	--	--	--	--	--

Method: METTRA Sample Name: CCB1

Operator: RJG

Run Time: 08/15/00 10:02:39

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	.00013	-.04015	.00109	.00028	.00070	.02205	.00012
SDev	.00029	.00134	.00095	.00018	.00009	.00770	.00014
%RSD	218.11	3.3305	86.902	64.219	12.431	34.906	116.74
#1	-.00007	-.03921	.00042	.00015	.00064	.01661	.00002
#2	.00034	-.04110	.00176	.00041	.00076	.02750	.00023
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	.00014	.00026	.00094	-.00164	.00952	.00071	.00457
SDev	.00029	.00018	.00007	.00848	.00330	.00033	.00180
%RSD	201.09	69.037	7.6913	516.03	34.687	46.105	39.431
#1	-.00006	.00013	.00099	-.00764	.00719	.00048	.00585
#2	.00035	.00039	.00089	.00435	.01186	.00094	.00330
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	.00132	.00055	.00081	.00072	.00014	.00135	.00095
SDev	.00162	.00199	.00114	.00010	.00021	.00189	.00133
%RSD	122.94	363.38	140.67	13.165	150.44	139.95	140.47
#1	.00017	-.00086	.00161	.00079	-.00001	.00001	.00001
#2	.00246	.00196	.00000	.00065	.00029	.00269	.00189
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	-.00043	-.00184	-.00137	.00156	.00026	.00079	
SDev	.00191	.00097	.00128	.00247	.00001	.00040	
%RSD	441.25	52.643	93.483	158.56	2.9071	50.461	
#1	.00092	-.00115	-.00046	.00331	.00026	.00051	
#2	-.00178	-.00252	-.00227	-.00019	.00027	.00107	
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	16440	--	--	--	--	--	--
SDev	69.68593	--	--	--	--	--	--
%RSD	.4238758	--	--	--	--	--	--
#1	16489	--	--	--	--	--	--
#2	16391	--	--	--	--	--	--

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Method: METTRA Sample Name: DHDQ0

Operator: RJG

Run Time: 08/15/00 10:06:49

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	.00041	.09416	.00010	.05191	-.00043	86.253	.00033
SDev	.00018	.00396	.00051	.00018	.00002	.190	.00012
%RSD	43.686	4.2063	492.09	.34307	5.0748	.21998	36.867
#1	.00029	.09696	-.00025	.05179	-.00044	86.387	.00024
#2	.00054	.09136	.00046	.05204	-.00041	86.119	.00041
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	.00433	.00137	.00278	.11302	21.467	.49212	.00328
SDev	.00027	.00041	.00050	.00714	.053	.00033	.00046
%RSD	6.2743	29.705	18.105	6.3204	.24619	.06629	14.060
#1	.00413	.00108	.00243	.10797	21.505	.49236	.00361
#2	.00452	.00166	.00314	.11808	21.430	.49189	.00295
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	.03806	.00167	-.00078	.00004	.00134	.00001	.00045
SDev	.00036	.00142	.00035	.00071	.00036	.00075	.00062
%RSD	.95859	84.629	44.956	1932.4	26.754	6169.8	135.96
#1	.03832	.00067	-.00103	-.00046	.00109	-.00052	.00002
#2	.03780	.00267	-.00053	.00054	.00159	.00054	.00089
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	-.00394	.00501	.00203	-.00329	.00131	.05146	
SDev	.00050	.00090	.00043	.00165	.00020	.00010	
%RSD	12.772	18.014	21.408	50.188	15.036	.19227	
#1	-.00430	.00564	.00233	-.00212	.00145	.05153	
#2	-.00359	.00437	.00172	-.00445	.00117	.05139	
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	15977	--	--	--	--	--	--
SDev	13.78858	--	--	--	--	--	--
%RSD	.0863024	--	--	--	--	--	--
#1	15967	--	--	--	--	--	--
#2	15987	--	--	--	--	--	--

Method: METTRA Sample Name: DHDQ3

Operator: RJG

Run Time: 08/15/00 10:10:58

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	-.00003	2.3192	.00011	.04967	.00112	80.394	.00065
SDev	.00039	.0006	.00106	.00016	.00011	.050	.00012
%RSD	1374.2	.02711	953.14	.32744	9.9455	.06247	18.552
#1	.00025	2.3187	-.00064	.04978	.00104	80.430	.00073
#2	-.00030	2.3196	.00086	.04955	.00119	80.359	.00056
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	.06696	.00227	.00529	1.2959	21.953	2.3063	-.00040
SDev	.00007	.00046	.00010	.0034	.011	.0024	.00022
%RSD	.10720	20.082	1.8629	.26302	.04848	.10540	56.874
#1	.06691	.00260	.00536	1.2935	21.946	2.3046	-.00055
#2	.06701	.00195	.00522	1.2983	21.961	2.3081	-.00024
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	.10733	.00320	.00245	.00270	-.00074	.00111	.00049
SDev	.00009	.00035	.00049	.00021	.00022	.00052	.00042
%RSD	.08582	10.840	19.976	7.8092	29.423	47.361	85.624
#1	.10727	.00345	.00210	.00255	-.00058	.00148	.00079
#2	.10740	.00296	.00280	.00285	-.00089	.00074	.00019
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	-.00523	.00765	.00336	-.00258	.00117	.30427	
SDev	.00159	.00032	.00031	.00299	.00020	.00075	
%RSD	30.367	4.2505	9.2863	116.07	16.992	.24638	
#1	-.00411	.00742	.00358	-.00470	.00132	.30480	
#2	-.00635	.00788	.00314	-.00046	.00103	.30374	
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	

	1	2	3	4	5	6	7
IntStd	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Mode	Y	--	--	--	--	--	--
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	15883	--	--	--	--	--	--
SDev	15.94581	--	--	--	--	--	--
%RSD	.1003934	--	--	--	--	--	--
#1	15872	--	--	--	--	--	--
#2	15895	--	--	--	--	--	--

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Method: METTRA Sample Name: DHDQ9

Operator: RJG

Run Time: 08/15/00 10:15:08

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	.00113	2.5037	.00702	.01279	.00126	116.60	-.00006
SDev	.00016	.0119	.00129	.00007	.00006	.60	.00020
%RSD	14.126	.47664	18.411	.58323	4.4246	.51650	358.03

#1	.00125	2.5122	.00793	.01284	.00122	117.03	-.00020
#2	.00102	2.4953	.00611	.01274	.00130	116.17	.00009

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	.06823	.00333	.00091	41.601	49.502	5.8337	.00144
SDev	.00016	.00000	.00004	.178	.214	.0219	.00031
%RSD	.23903	.13508	4.2479	.42786	.43181	.37533	21.410

#1	.06835	.00333	.00088	41.727	49.653	5.8492	.00166
#2	.06812	.00333	.00094	41.475	49.351	5.8182	.00123

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	.08496	.00110	.00065	.00080	-.00124	-.00030	-.00061
SDev	.00003	.00090	.00068	.00015	.00076	.00002	.00024
%RSD	.03458	82.338	103.93	19.047	61.661	7.7201	38.922

#1	.08494	.00174	.00017	.00069	-.00070	-.00032	-.00045
#2	.08498	.00046	.00114	.00091	-.00178	-.00029	-.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	-.00729	.00398	.00023	-.00167	.00308	.16030
SDev	.00027	.00018	.00021	.00078	.00044	.00081
%RSD	3.7006	4.5792	92.927	46.958	14.422	.50441

#1	-.00710	.00411	.00038	-.00112	.00340	.16087
#2	-.00749	.00385	.00008	-.00223	.00277	.15973

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