

File: 541.460.000n
C.H.



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 669

**SEVERN
TRENT
SERVICES**

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

Tel: 412 820 8330
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ANALYTICAL REPORT

PROJECT NO. UXB 7512-060

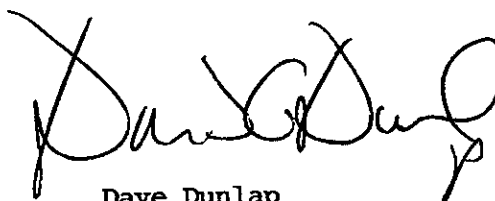
Dunn Field, Def Depot Memphis

Lot #: C0H160154

Frank Johnson

UXB International

SEVERN TRENT LABORATORIES, INC.



Dave Dunlap
Project Manager

September 8, 2000

STL Pittsburgh is a part of Severn Trent Laboratories, Inc.

CASE NARRATIVE
UXB International Inc.
Dunn Field

LOT # C0H160154

Sample Receiving:

STL Pittsburgh received samples on August 16, 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.

TCLP Metals:

There were no problems associated with the analysis.

General Chemistry:

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

There were no problems associated with the analyses.

METHODS SUMMARY

COH160154

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

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

COH160154

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DHX40	001	DF/S1/0228/SDC/026	08/15/00	10:00
DHX47	002	DF/S1/0228/SDC/027	08/15/00	10:00
DHX4A	003	DF/S1/0228/SDC/028	08/15/00	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: AKB Project: 8/16/05 Quote: _____

Cooler Rec'd & Opened for Temp. Check on: 8/16/05

Coolers Opened and Unpacked on: 8/16/05 By: [Signature]
(Signature)

STL Pittsburgh Lot Number: C014160154

	Yes	No
1. Were custody seals on the outside of the cooler? _____	☒	☐
If YES, how many and where? Quantity <u>1</u> Location <u>1st R Buckle</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</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> UPS CLIENT DROP-OFF OTHER AIRBORNE		

Explain any discrepancies: _____

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

P: Preserved
UP: Unpreserved

[illegible]

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

Comments: _____

[illegible]

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

FedEx USA Airbill

82173876685

0200

FedEx Airbill

1 From

Date 8/15/00 Sender's FedEx Account Number 1191-4700-0

2 Your Internal Billing Reference

Sender's Name Chris Ross Phone 901 745-4999Company WXB IntAddress Residence Inn, Rm 116, Old Poplar PkCity Memphis State TN ZIP 38119

3 To

Recipient's Name Rusty Vincine Phone 412 820-2091Company Severn TrentAddress 450 William Pitt WayCity Pittsburgh State PA ZIP 15238

4a Express Package Service

1 ☒ FedEx Priority Overnight5 ☐ FedEx Standard Overnight20 ☐ FedEx 2Day20 ☐ FedEx Express Saver

4b Express Freight Service

7 ☐ FedEx 1Day Freight8 ☐ FedEx 2Day Freight

5 Packaging

6 ☐ FedEx Letter2 ☐ FedEx Pak

6 Special Handling

3 ☐ Saturday Delivery33 ☐ Sunday Delivery1 ☐ Hold Weekdays31 ☐ Hold Weekdays

Does this shipment contain dangerous goods?

No ☒ Yes ☐

If Yes, specify the hazard class, division, and packing group.

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82173876685



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SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

August-15, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: John L Schwarz

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	Lewisite
DF/S1/02 28/SDC/ 026		ND	ND	N/A	ND	ND
DF/S1/02 28/SDC/ 027		ND	ND	N/A	ND	ND
DF/S1/02 28/SDC/ 028		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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/16/00

Work Order: DHX40102

Date Extracted: 08/22/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 20

QC Batch: 0235134

Client Sample Id: DF/S1/0228/SDC/026

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
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/16/00

Work Order: DHX4011E

Date Extracted: 08/22/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 20

QC Batch: 0235134

Client Sample Id: DF/S1/0228/SDC/026

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.440	
78-93-3	2-Butanone	0.212	
56-23-5	Carbon tetrachloride	0.512	
108-90-7	Chlorobenzene	0.423	
67-66-3	Chloroform	0.471	
107-06-2	1,2-Dichloroethane	0.448	
75-35-4	1,1-Dichloroethene	0.572	
127-18-4	Tetrachloroethene	0.440	
79-01-6	Trichloroethene	0.453	
75-01-4	Vinyl chloride	0.643	

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UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID: COH160154 001
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 08/16/00
Work Order: DHX4011F Date Extracted: 08/22/00
Dilution factor: 1 Date Analyzed: 08/22/00
Moisture %: 20

Client Sample Id: DF/S1/0228/SDC/026 QC Batch: 0235134

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.473	
78-93-3	2-Butanone	0.206	
56-23-5	Carbon tetrachloride	0.526	
108-90-7	Chlorobenzene	0.446	
67-66-3	Chloroform	0.488	
107-06-2	1,2-Dichloroethane	0.463	
75-35-4	1,1-Dichloroethene	0.594	
127-18-4	Tetrachloroethene	0.465	
79-01-6	Trichloroethene	0.477	
75-01-4	Vinyl chloride	0.663	

FORM I

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/16/00

Work Order: DHX47102

Date Extracted: 08/22/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 21

QC Batch: 0235134

Client Sample Id: DF/S1/0228/SDC/027

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: COH160154 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/16/00

Work Order: DHX4A102

Date Extracted: 08/22/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 15

QC Batch: 0235134

Client Sample Id: DF/S1/0228/SDC/028

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
CHECK SAMPLE COMPOUNDS

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

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

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

QC Batch: 0235134

Client Sample Id: CHECK SAMPLE

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

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SW846 8260B SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: COH160154

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	DF/S1/0228/SDC/028	88	91	89	81	00
02	DF/S1/0228/SDC/026	89	89	92	84	00
03	DF/S1/0228/SDC/027	87	89	92	84	00
04	METHOD BLK. DJ6X8101	90	93	91	94	00
05	LCS DJ748101	98	97	91	92	00
06	DF/S1/0228/SDC/026 D	97	94	90	93	00
07	DF/S1/0228/SDC/026 S	98	97	91	93	00

SURROGATES

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

QC LIMITS

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

- # 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 #: C0H220000

WO #: DJ748101

BATCH: 0235134

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

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

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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: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: C0H160154

WO #: DHX4011E

BATCH: 0235134

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

NOTES (S) :

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

RPD: 0 out of 0 outside limitsSpike 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: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: C0H160154

WO #: DHX4011F

BATCH: 0235134

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

NOTES (S) :

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

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

COMMENTS:

669 22 SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DJ6X8101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: 5082203.D

Lot Number: C0H160154

Date Analyzed: 08/22/00

Time Analyzed: 07:41

Matrix: SOLID

Date Extracted: 08/22/00

GC Column: ID: .00

Extraction Method: 1311/5030B

Instrument ID: HP5

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	=====	=====	=====	=====	=====
01	DF/S1/0228/SDC/028	DHX4A102	5082209.D	08/22/00	10:07
02	DF/S1/0228/SDC/026	DHX40102	5082207.D	08/22/00	09:18
03	DF/S1/0228/SDC/026	DHX4011E S	5082211.D	08/22/00	10:56
04	DF/S1/0228/SDC/026	DHX4011F D	5082212.D	08/22/00	11:20
05	DF/S1/0228/SDC/027	DHX47102	5082208.D	08/22/00	09:42
06	CHECK SAMPLE	DJ748101 C	5082210.D	08/22/00	10:31
07					
08					
09					
10					
11					
12					
13					
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22					
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26					
27					
28					
29					
30					

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

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

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

QC Batch: 0235134

Client Sample Id: INTRA-LAB BLANK

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

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8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0H160154

Lab File ID (Standard): CC50822

Date Analyzed: 08/22/00

Instrument ID: HP5

Time Analyzed: 0550

GC Column: DB 624 ID: 0.20 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ)		IS2 (DCB)		IS3	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	146944	9.97	224422	12.27	648101	6.88
UPPER LIMIT	293888	10.17	448844	12.47	1296202	7.08
LOWER LIMIT	73472	9.77	112211	12.07	324051	6.68
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	143051	9.96	190736	12.28	617428	6.88
02 DF/S1/0228/S	139999	9.97	177646	12.27	612743	6.89
03 DF/S1/0228/S	138234	9.96	170468	12.28	607690	6.89
04 DF/S1/0228/S	139782	9.97	176317	12.27	595626	6.88
05 INTRA-LAB CH	145916	9.97	197376	12.27	635208	6.88
06 DF/S1/0228/S	147990	9.97	211673	12.28	621139	6.89
07 DF/S1/0228/S	148659	9.97	216950	12.27	643923	6.88
08						
09						
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17						
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19						
20						
21						
22						

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

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

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

page 1 of 1

FORM VIII VOA

OLM03.0

GC/MS SEMIVOLATILE SUMMARY

669 26

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DHX40103

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/25/00

Moisture %: 20

QC Batch: 0235112

Client Sample Id: DF/S1/0228/SDC/026

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

FORM I

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DHX4011C

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 20

QC Batch: 0235112

Client Sample Id: DF/S1/0228/SDC/026

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.107	
121-14-2	2,4-Dinitrotoluene	0.136	
118-74-1	Hexachlorobenzene	0.176	
87-68-3	Hexachlorobutadiene	0.103	
67-72-1	Hexachloroethane	0.102	
98-95-3	Nitrobenzene	0.119	
87-86-5	Pentachlorophenol	0.190	
110-86-1	Pyridine	0.124	
95-95-4	2,4,5-Trichlorophenol	0.143	
88-06-2	2,4,6-Trichlorophenol	0.140	
1319-77-3	Cresols (total)	0.391	

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UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DHX4011D

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 20

QC Batch: 0235112

Client Sample Id: DF/S1/0228/SDC/026

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.100	
121-14-2	2,4-Dinitrotoluene	0.120	
118-74-1	Hexachlorobenzene	0.165	
87-68-3	Hexachlorobutadiene	0.0968	
67-72-1	Hexachloroethane	0.0960	
98-95-3	Nitrobenzene	0.111	
87-86-5	Pentachlorophenol	0.173	
110-86-1	Pyridine	0.114	
95-95-4	2,4,5-Trichlorophenol	0.135	
88-06-2	2,4,6-Trichlorophenol	0.130	
1319-77-3	Cresols (total)	0.355	

FORM I

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DHX47103

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/25/00

Moisture %: 21

QC Batch: 0235112

Client Sample Id: DF/S1/0228/SDC/027

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DHX4A103

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 15

QC Batch: 0235112

Client Sample Id: DF/S1/0228/SDC/028

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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID: C0H220000 112

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DJ700102

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/23/00

Moisture %: NA

QC Batch: 0235112

Client Sample Id: CHECK SAMPLE

CONCENTRATION UNITS:

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

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SW846 8270C SURROGATE RECOVERY

Lab Name. Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0H160154

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/S1/0228/SDC/028	62	61	98	54	60	75	00
02	DF/S1/0228/SDC/026	59	53	92	52	61	67	00
03	DF/S1/0228/SDC/027	51	46	100	43	53	62	00
04	METHOD BLK. DJ700101	66	64	100	57	70	60	00
05	LCS DJ700102	76	75	100	69	77	68	00
06	DF/S1/0228/SDC/026 D	43	43	86	36	43	63	00
07	DF/S1/0228/SDC/026 S	46	46	94	39	47	69	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

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0H220000

WO #: DJ700102

BATCH: 0235112

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

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

669 34 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: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: C0H160154

WO #: DHX4011C

BATCH: 0235112

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

NOTES (S) :

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

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

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: COH160154

WO #: DHX4011D

BATCH: 0235112

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

NOTES (S) :

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

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

COMMENTS:

669 36 SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DJ700101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: S0823002.

Lot Number: COH160154

Date Analyzed: 08/23/00

Time Analyzed: 23:32

Matrix: SOLID

Date Extracted: 08/21/00

GC Column: DB5MS ID: .25

Extraction Method: 1311/3520C

Instrument ID: 71

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DF/S1/0228/SDC/028	DHX4A103	S0824004.	08/24/00	20:38
02	DF/S1/0228/SDC/026	DHX40103	S0825021.	08/25/00	19:58
03	DF/S1/0228/SDC/026	DHX4011C S	S0824001.	08/24/00	18:56
04	DF/S1/0228/SDC/026	DHX4011D D	S0824002.	08/24/00	19:30
05	DF/S1/0228/SDC/027	DHX47103	S0825001.	08/25/00	20:32
06	CHECK SAMPLE	DJ700102 C	S0823001.	08/23/00	22:58
07					
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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: COH220000 112

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DJ700101

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/23/00

Moisture %: NA

QC Batch: 0235112

Client Sample Id: INTRA-LAB BLANK

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

669 38

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: SDG No.: C0H160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/23/00

Lab File ID (Standard): S0823CC2

Time Analyzed: 1935

Instrument ID: 71

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	147014	5.23	543040	6.80	257929	9.90
UPPER LIMIT	294028	5.73	1086080	7.30	515858	10.40
LOWER LIMIT	73507	4.73	271520	6.30	128965	9.40
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB CH	96216	5.24	397562	6.82	191210	9.93
02 INTRA-LAB BL	89960	5.25	380795	6.82	180111	9.93
03						
04						
05						
06						
07						
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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 values outside QC limits with an asterisk.

* Values outside of QC limits

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

669 39

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: SDG No.: COH160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/23/00

Lab File ID (Standard): S0823CC2

Time Analyzed: 1935

Instrument ID: 71

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

669 40

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: SDG No.: C0H160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/24/00

Lab File ID (Standard): S0824CCC

Time Analyzed: 1530

Instrument ID: 71

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

	IS1 (DCB)	RT #	IS2 (NPT)	RT #	IS3 (ANT)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	197135	5.15	716872	6.71	383278	9.80
UPPER LIMIT	394270	5.65	1433744	7.21	766556	10.30
LOWER LIMIT	98568	4.65	358436	6.21	191639	9.30
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0228/S	272262	5.16	1042891	6.72	574676	9.79
02 DF/S1/0228/S	277724	5.16	1038182	6.72	560013	9.79
03 DF/S1/0228/S	249421	5.15	925495	6.71	497519	9.79
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 values outside QC limits with an asterisk.
* Values outside of QC limits

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

669 41

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: SDG No.: C0H160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/24/00

Lab File ID (Standard): S0824CCC

Time Analyzed: 1530

Instrument ID: 71

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	652627	13.12	712357	19.78	607120	23.15
UPPER LIMIT	1305254	13.62	1424714	20.28	1214240	23.65
LOWER LIMIT	326314	12.62	356179	19.28	303560	22.65
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0228/S	987016	13.12	955159	19.77	853987	23.14
02 DF/S1/0228/S	933098	13.13	904924	19.77	861563	23.15
03 DF/S1/0228/S	852952	13.11	834462	19.77	791413	23.14
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 values outside QC limits with an asterisk.

* Values outside of QC limits

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: C0H160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/25/00

Lab File ID (Standard): S0825CC1

Time Analyzed: 1515

Instrument ID: 71

GC Column: HP5-MS

ID: 0.25 (mm)

	IS1 (DCB)	RT #	IS2 (NPT)	RT #	IS3 (ANT)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	193238	5.14	709751	6.69	350059	9.77
UPPER LIMIT	386476	5.64	1419502	7.19	700118	10.27
LOWER LIMIT	96619	4.64	354876	6.19	175030	9.27
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0228/S	255804	5.13	995926	6.68	566395	9.75
02 DF/S1/0228/S	260351	5.15	1034125	6.70	575929	9.78
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 values outside QC limits with an asterisk.

* Values outside of QC limits

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

669 43

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: SDG No.: C0H160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/25/00

Lab File ID (Standard): S0825CC1

Time Analyzed: 1515

Instrument ID: 71

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

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	450344	13.09	356403	19.74	378937	23.11
UPPER LIMIT	900688	13.59	712806	20.24	757874	23.61
LOWER LIMIT	225172	12.59	178202	19.24	189469	22.61
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0228/S	858077	13.07	547736	19.71	545660	23.08
02 DF/S1/0228/S	868674	13.11	514046	19.75	518651	23.12
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 values outside QC limits with an asterisk.
* Values outside of QC limits

669 44

PESTICIDE SUMMARY

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX40104

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 20

QC Batch: 0234434

Client Sample Id: DF/S1/0228/SDC/026

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

669 46

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX40119

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 20

QC Batch: 0234434

Client Sample Id: DF/S1/0228/SDC/026

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00234	
76-44-8	Heptachlor	0.00226	
1024-57-3	Heptachlor epoxide	0.00228	
58-89-9	Lindane	0.00161	
72-43-5	Methoxychlor	0.00247	

FORM I

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX4011A

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 20

QC Batch: 0234434

Client Sample Id: DF/S1/0228/SDC/026

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00232	
76-44-8	Heptachlor	0.00228	
1024-57-3	Heptachlor epoxide	0.00233	
58-89-9	Lindane	0.00164	
72-43-5	Methoxychlor	0.00247	

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX47104

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 21

QC Batch: 0234434

Client Sample Id: DF/S1/0228/SDC/027

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX4A104

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 15

QC Batch: 0234434

Client Sample Id: DF/S1/0228/SDC/028

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

669 50

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID

Lab Sample ID: COH210000 434

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DJ6M5102

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: NA

QC Batch: 0234434

Client Sample Id: CHECK SAMPLE

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

FORM I

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0H160154

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/S1/0228/SDC/028	95	88	00
02	DF/S1/0228/SDC/026	95	88	00
03	DF/S1/0228/SDC/027	100	90	00
04	METHOD BLK. DJ6M5101	100	89	00
05	LCS DJ6M5102	99	90	00
06	DF/S1/0228/SDC/026 D	97	87	00
07	DF/S1/0228/SDC/026 S	96	86	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

669 52

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0H210000

WO #: DJ6M5102

BATCH: 0234434

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

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: C0H160154

WO #: DHX40119

BATCH: 0234434

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

NOTES (S) :

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

RPD: ___0 out of ___0 outside limits
Spike Recovery: ___0 out of ___5 outside limits

COMMENTS:

669 54 SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: C0H160154

WO #: DHX4011A

BATCH: 0234434

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

NOTES(S) :

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8081A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DJ6M5101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D-B5582.d

Lot Number: C0H160154

Matrix: SOLID

Extraction Method: 1311/3510

Date Extracted: 08/21/00

Date Analyzed(1): 08/24/00

Date Analyzed(2): N/A

Time Analyzed(1): 02:37

Time Analyzed(2): N/A

Instrument ID(1): G/H

Instrument ID(2): N/A

GC Column(1): DB608/1701 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/S1/0228/SDC/028	DHX4A104	08/24/00	N/A
02	DF/S1/0228/SDC/026	DHX40104	08/24/00	N/A
03	DF/S1/0228/SDC/026	DHX4011A D	08/24/00	N/A
04	DF/S1/0228/SDC/026	DHX40119 S	08/24/00	N/A
05	DF/S1/0228/SDC/027	DHX47104	08/24/00	N/A
06	CHECK SAMPLE	DJ6M5102 C	08/24/00	N/A
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH210000 434

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DJ6M5101

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: NA

QC Batch: 0234434

Client Sample Id: INTRA-LAB BLANK

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

HERBICIDE SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX40105

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 20

QC Batch: 0234431

Client Sample Id: DF/S1/0228/SDC/026

		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

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

669 59

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX40117

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 20

QC Batch: 0234431

Client Sample Id: DF/S1/0228/SDC/026

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.121	
93-72-1	2,4,5-TP (Silvex)	0.0311	

FORM I

669 60

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX40118

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 20

QC Batch: 0234431

Client Sample Id: DF/S1/0228/SDC/026

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.120	
93-72-1	2,4,5-TP (Silvex)	0.0305	

FORM I

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX47105

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 21

QC Batch: 0234431

Client Sample Id: DF/S1/0228/SDC/027

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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 003

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX4A105

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 15

QC Batch: 0234431

Client Sample Id: DF/S1/0228/SDC/028

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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH210000 431

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DJ6M3102

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: NA

QC Batch: 0234431

Client Sample Id: CHECK SAMPLE

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

669 64

SW846 8151A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: COH160154

	CLIENT ID.	SRG01	TOT OUT
	=====	=====	=====
01	DF/S1/0228/SDC/028	46	00
02	DF/S1/0228/SDC/026	52	00
03	DF/S1/0228/SDC/027	45	00
04	METHOD BLK. DJ6M3101	82	00
05	LCS DJ6M3102	93	00
06	DF/S1/0228/SDC/026 D	48	00
07	DF/S1/0228/SDC/026 S	52	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

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: COH210000

WO #: DJ6M3102

BATCH: 0234431

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

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

669 66

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: DF/S1/0228/SDC/026

Lot #: C0H160154

WO #: DHX40117

BATCH: 0234431

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

NOTES (S) :

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

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT 000

SDG No:

Matrix Spike ID: DF/S1/0228/SDC/026

Lot #: COH160154

WO #: DHX40118

BATCH: 0234431

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

NOTES (S) :

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

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

COMMENTS:

FORM III

669 68

SW846 8151A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DJ6M3101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: A-A50304.

Lot Number: C0H160154

Matrix: SOLID

Extraction Method:

Date Extracted: 08/21/00

Date Analyzed(1): 08/22/00

Date Analyzed(2): N/A

Time Analyzed(1): 19:15

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

GC Column(1): DB5/DB1701 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
	=====	=====	=====	=====
01	DF/S1/0228/SDC/028	DHX4A105	08/22/00	N/A
02	DF/S1/0228/SDC/026	DHX40105	08/22/00	N/A
03	DF/S1/0228/SDC/026	DHX40117 S	08/22/00	N/A
04	DF/S1/0228/SDC/026	DHX40118 D	08/22/00	N/A
05	DF/S1/0228/SDC/027	DHX47105	08/22/00	N/A
06	CHECK SAMPLE	DJ6M3102 C	08/22/00	N/A
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

669 69

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH210000 431

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DJ6M3101

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: NA

QC Batch: 0234431

Client Sample Id: INTRA-LAB BLANK

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

FORM I

METALS SUMMARY

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHX40 Client ID: DF/S1/0228/SDC/026
 Matrix: Soil Units: mg/kg Prep Date: 8/28/00 Prep Batch: 0241105
 Weight: 1.00 Volume: 100 Percent Moisture: 20.33

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	1.3	9.5		1	ICPST	8/28/00	14:26

Comments: Lot #: C0H160154 Sample #: 1

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

669 72

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHX47 Client ID: DF/S1/0228/SDC/027
Matrix: Soil Units: mg/kg Prep Date: 8/28/00 Prep Batch: 0241105
Weight: 1.00 Volume: 100 Percent Moisture: 21.04

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	1.3	10.5		1	ICPST	8/28/00	14:42

Comments: Lot #: C0H160154 Sample #: 2

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHX4A Client ID: DF/S1/0228/SDC/028
Matrix: Soil Units: mg/kg Prep Date: 8/28/00 Prep Batch: 0241105
Weight: 1.00 Volume: 100 Percent Moisture: 15.01

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	1.2	9.0		1	ICPST	8/28/00	14:47

Comments: Lot #: C0H160154 Sample #: 3

Version 4.10.2

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

Form 1 Equivalent

669 74

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00828B.ARC

Standard Source: _____

Standard ID: _____

			ICBI 8/28/00 10:56 AM					
Element	WL/ Mass	Report Limit	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: T00828B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 8/28/00 11:49 AM	CCB2 8/28/00 12:39 PM	CCB3 8/28/00 1:29 PM	CCB4 8/28/00 2:06 PM	CCB5 8/28/00 2:55 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

Preparation Blank Results

Lab Sample ID: DJGQ8BMatrix: Soil Units: mg/kg Prep Date: 8/28/00 Prep Batch: 0241105Weight: 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	8/28/00	14:17

Comments: Lot #: C0H160154

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DHX40S
 Original Sample ID: DHX40 Client ID: DF/S1/0228/SDC/026S
 Matrix: Soil Units: mg/kg Prep Date: 8/28/00 Prep Batch: 0241105
 Weight: 1.00 Volume: 100 Percent Moisture: 20.33

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	9.5		239		251.04	91.3	1	1	ICPST	8/28/00	14:26	8/28/00	14:34

Comments: Lot #: C0H160154 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

669 78

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DHX40DOriginal Sample ID: DHX40Client ID: DF/S1/0228/SDC/026DMatrix: SoilUnits: mg/kgPrep Date: 8/28/00Prep Batch: 0241105Weight: 1.00Volume: 100Percent Moisture: 20.33

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	9.5		243		251.04	93.2	1	1	ICPST	8/28/00	14:26	8/28/00	14:38

Comments: Lot #: C0H160154 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 RPD Report

Matrix Spike Duplicate Sample ID: DHX40DMatrix Spike Sample ID: DHX40S Client ID: DF/S1/0228/SDC/026DMatrix: Soil Units: mg/kg Prep Date: 8/28/00 Prep Batch: 0241105Weight: 1.00 Volume: 100 Percent Moisture: 20.33

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	239		243		2.0 %	1	1	ICPST	8/28/00	14:34	8/28/00	14:38

Comments: Lot #: C0H160154 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

669 80

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DJGQ8CMatrix: Soil Units: mg/kg Prep Date: 8/28/00 Prep Batch: 0241105Weight: 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	102.5		80-120	1	ICPST	8/28/00	14:22

Comments: Lot #: C0H160154

Version 4.10.2

U Result is less than the MDL

Form 7 Equivalent

B Result is between MDL and RL

TCLP METALS SUMMARY

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHX40T Client ID: DF/S1/0228/SDC/026
Matrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234102
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000097	B	1	CVAA	8/21/00	10:56

Comments: _____

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHX47T Client ID: DF/S1/0228/SDC/027
Matrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234102
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000045	U	1	CVAA	8/21/00	11:05

Comments: _____

669 84

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHX4AT Client ID: DF/S1/0228/SDC/028
Matrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234102
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000067	B	1	CVAA	8/21/00	11:06

Comments: _____

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHX40T Client ID: DF/S1/0228/SDC/026
 Matrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234110
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.030	0.50	0.12	B	1	ICP	8/22/00	8:28
Barium	493.41	0.00041	10.0	0.98	B	1	ICP	8/22/00	8:28
Cadmium	228.80	0.0028	0.10	0.0028	U	1	ICP	8/22/00	8:28
Chromium	267.72	0.0038	0.50	0.0038	U	1	ICP	8/22/00	8:28
Lead	220.35	0.025	0.50	0.025	U	1	ICP	8/22/00	8:28
Selenium	196.03	0.067	0.25	0.067	U	1	ICP	8/22/00	8:28
Silver	328.07	0.0031	0.50	0.0031	U	1	ICP	8/22/00	8:28

Comments: C0H160154001

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: DHX47T Client ID: DF/S1/0228/SDC/027
Matrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234110
Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.030	0.50	0.13	B	1	ICP	8/22/00	8:41
Barium	493.41	0.00041	10.0	1.0	B	1	ICP	8/22/00	8:41
Cadmium	228.80	0.0028	0.10	0.0028	U	1	ICP	8/22/00	8:41
Chromium	267.72	0.0038	0.50	0.0038	U	1	ICP	8/22/00	8:41
Lead	220.35	0.025	0.50	0.025	U	1	ICP	8/22/00	8:41
Selenium	196.03	0.067	0.25	0.067	U	1	ICP	8/22/00	8:41
Silver	328.07	0.0031	0.50	0.0031	U	1	ICP	8/22/00	8:41

Comments: C0H160154002

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DHX4AT Client ID: DF/S1/0228/SDC/028
 Matrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234110
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.030	0.50	0.15	B	1	ICP	8/22/00	8:51
Barium	493.41	0.00041	10.0	0.95	B	1	ICP	8/22/00	8:51
Cadmium	228.80	0.0028	0.10	0.0028	U	1	ICP	8/22/00	8:51
Chromium	267.72	0.0038	0.50	0.0058	B	1	ICP	8/22/00	8:51
Lead	220.35	0.025	0.50	0.16	B	1	ICP	8/22/00	8:51
Selenium	196.03	0.067	0.25	0.067	U	1	ICP	8/22/00	8:51
Silver	328.07	0.0031	0.50	0.0031	U	1	ICP	8/22/00	8:51

Comments: COH160154003

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

Initial Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0821HGA.PRN

Standard Source: _____

Standard ID: _____

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

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00822A.ARC

Standard Source: _____

Standard ID: _____

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

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0821HGA.PRN

Standard Source: _____

Standard ID: _____

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

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00822A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 8/22/00 8:47 AM		CCB2 8/22/00 9:09 AM					
			Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	193.696	500	30.3	U	30.3	U				
Barium	493.409	10000	0.6	B	0.4	U				
Cadmium	228.802	100	2.8	U	3.2	B				
Chromium	267.716	500	3.8	U	3.8	U				
Lead	220.353	500	24.6	U	24.6	U				
Selenium	196.026	250	67.4	U	67.4	U				
Silver	328.068	500	3.1	U	3.1	U				

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DJ3ACBTMatrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234102Weight: NA Volume: 100 Percent Moisture: NA

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

Comments: _____

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DJ5H9BTMatrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234102Weight: NA Volume: 100 Percent Moisture: NA

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

Comments: _____

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DJ3ACBTMatrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234110Weight: NA Volume: 50 Percent Moisture: NA

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

Comments: _____

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DJ5HPBTMatrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234110Weight: NA Volume: 50 Percent Moisture: NA

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

Comments: _____

Version 4.10.2

U Result is less than the MDL

Form 3 Equivalent

B Result is between MDL and RL

669 96

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DHX40ST
 Original Sample ID: DHX40T Client ID: DF/S1/0228/SDC/026S
 Matrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234102
 Weight: NA Volume: 100 Percent Moisture: NA

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
Mercury	253.7	0.000097	B	0.0053		0.005	103.5	1	1	CVAA	8/21/00	10:56	8/21/00	10:58

Comments: _____

Version 4.10.2

U Result is less than the MDL

Form 5A Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DHX40DT

Original Sample ID: DHX40T Client ID: DF/S1/0228/SDC/026D

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

Weight: NA Volume: 100 Percent Moisture: NA

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
Mercury	253.7	0.000097	B	0.0051		0.005	100.1	1	1	CVAA	8/21/00	10:56	8/21/00	11:00

Comments: _____

Version 4.10.2

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

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DHX40ST
 Original Sample ID: DHX40T Client ID: DF/S1/0228/SDC/026S
 Matrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234110
 Weight: NA Volume: 50 Percent Moisture: NA

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	193.7	0.12	B	5.2		5	101.9	1	1	ICP	8/22/00	8:28	8/22/00	8:35
Barium	493.4	0.98	B	47.4		50	92.7	1	1	ICP	8/22/00	8:28	8/22/00	8:35
Cadmium	228.8	0.0028	U	1.0		1	99.7	1	1	ICP	8/22/00	8:28	8/22/00	8:35
Chromium	267.7	0.0038	U	4.7		5	93.7	1	1	ICP	8/22/00	8:28	8/22/00	8:35
Lead	220.4	0.025	U	4.8		5	96.4	1	1	ICP	8/22/00	8:28	8/22/00	8:35
Selenium	196.0	0.067	U	1.1		1	105.5	1	1	ICP	8/22/00	8:28	8/22/00	8:35
Silver	328.1	0.0031	U	0.96		1	96.0	1	1	ICP	8/22/00	8:28	8/22/00	8:35

Comments: _____

Version 4.10.2

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

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DHX40DT
 Original Sample ID: DHX40T Client ID: DF/S1/0228/SDC/026D
 Matrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234110
 Weight: NA Volume: 50 Percent Moisture: NA

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	193.7	0.12	B	5.2		5	101.1	1	1	ICP	8/22/00	8:28	8/22/00	8:38
Barium	493.4	0.98	B	47.4		50	92.7	1	1	ICP	8/22/00	8:28	8/22/00	8:38
Cadmium	228.8	0.0028	U	1.0		1	99.6	1	1	ICP	8/22/00	8:28	8/22/00	8:38
Chromium	267.7	0.0038	U	4.7		5	93.4	1	1	ICP	8/22/00	8:28	8/22/00	8:38
Lead	220.4	0.025	U	4.8		5	95.0	1	1	ICP	8/22/00	8:28	8/22/00	8:38
Selenium	196.0	0.067	U	1.0		1	102.6	1	1	ICP	8/22/00	8:28	8/22/00	8:38
Silver	328.1	0.0031	U	0.96		1	95.6	1	1	ICP	8/22/00	8:28	8/22/00	8:38

Comments: _____

Version 4.10.2

U Result is less than the MDL

Form 5A Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

STL-Pittsburgh

669 100

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DHX40DTMatrix Spike Sample ID: DHX40ST Client ID: DF/S1/0228/SDC/026DMatrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234102Weight: NA Volume: 100 Percent Moisture: NA

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
Mercury	253.7	0.0053		0.0051		3.3 %	1	1	CVAA	8/21/00	10:58	8/21/00	11:00

Comments: _____

Version 4.10.2

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

Form 6 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DHX40DTMatrix Spike Sample ID: DHX40ST Client ID: DF/S1/0228/SDC/026DMatrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234110Weight: NA Volume: 50 Percent Moisture: NA

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	193.696	5.2		5.2		0.8 %	1	1	ICP	8/22/00	8:35	8/22/00	8:38
Barium	493.409	47.4		47.4		0.0 %	1	1	ICP	8/22/00	8:35	8/22/00	8:38
Cadmium	228.802	1.0		1.0		0.0 %	1	1	ICP	8/22/00	8:35	8/22/00	8:38
Chromium	267.716	4.7		4.7		0.3 %	1	1	ICP	8/22/00	8:35	8/22/00	8:38
Lead	220.353	4.8		4.8		1.4 %	1	1	ICP	8/22/00	8:35	8/22/00	8:38
Selenium	196.026	1.1		1.0		2.7 %	1	1	ICP	8/22/00	8:35	8/22/00	8:38
Silver	328.068	0.96		0.96		0.5 %	1	1	ICP	8/22/00	8:35	8/22/00	8:38

Comments: _____

Version 4.10.2

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

Form 6 Equivalent

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DJ5H9CTMatrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234102Weight: NA Volume: 100 Percent Moisture: NA

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

✱

Comments: _____

Version 4.10.2

U Result is less than the MDL

Form 7 Equivalent

B Result is between MDL and RL

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DJ5HPCTMatrix: TCLP Units: mg/L Prep Date: 8/21/00 Prep Batch: 0234110Weight: NA Volume: 50 Percent Moisture: NA

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

Comments: _____

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

GENERAL CHEMISTRY SUMMARY

UXB INTERNATIONAL

Client Sample ID: DF/S1/0228/SDC/026

General Chemistry

Lot-Sample #...: C0H160154-001 Work Order #...: DHX40 Matrix.....: SOLID
 Date Sampled...: 08/15/00 Date Received...: 08/16/00
 % Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.1		No Units	SW846 9045C	08/16/00	0229262
			Dilution Factor: 1	MS Run #.....: 0229119		
Ignitability	NO	--	No Units	SW846 SECTION 7.1	08/16/00	0229248
			Dilution Factor: 1	MS Run #.....: 0229107		
Percent Solids	79.7		%	MCAWW 160.3 MOD	08/17-08/18/00	0230166
			Dilution Factor: 1	MS Run #.....: 0230059		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	08/23/00	0236359
			Dilution Factor: 1	MS Run #.....: 0236168		
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	08/23/00	0236360
			Dilution Factor: 1	MS Run #.....: 0236169		

UXB INTERNATIONAL

Client Sample ID: DF/S1/0228/SDC/027

General Chemistry

Lot-Sample #....: COH160154-002 Work Order #....: DHX47 Matrix.....: SOLID
 Date Sampled....: 08/15/00 Date Received...: 08/16/00
 % Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.1		No Units	SW846 9045C	08/16/00	0229262
				Dilution Factor: 1	MS Run #.....: 0229119	
Ignitability	NO	--	No Units	SW846 SECTION 7.1	08/16/00	0229248
				Dilution Factor: 1	MS Run #.....: 0229107	
Percent Solids	79.0		%	MCAWW 160.3 MOD	08/17-08/18/00	0230166
				Dilution Factor: 1	MS Run #.....: 0230059	
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	08/23/00	0236359
				Dilution Factor: 1	MS Run #... : 0236168	
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	08/23/00	0236360
				Dilution Factor: 1	MS Run #... : 0236169	

UXB INTERNATIONAL

Client Sample ID: DF/S1/0228/SDC/028

General Chemistry

Lot-Sample #...: C0H160154-003 Work Order #...: DHX4A Matrix.....: SOLID
 Date Sampled...: 08/15/00 Date Received...: 08/16/00
 % Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.1		No Units	SW846 9045C	08/16/00	0229262
			Dilution Factor: 1	MS Run #.....: 0229119		
Ignitability	NO	--	No Units	SW846 SECTION 7.1	08/16/00	0229248
			Dilution Factor: 1	MS Run #.....: 0229107		
Percent Solids	85.0		%	MCAWW 160.3 MOD	08/17-08/18/00	0230166
			Dilution Factor: 1	MS Run #.....: 0230059		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	08/23/00	0236359
			Dilution Factor: 1	MS Run #.....: 0236168		
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	08/23/00	0236360
			Dilution Factor: 1	MS Run #.....: 0236169		

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METHOD BLANK REPORT

General Chemistry

Client Lot #....: C0H160154

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Reactive Cyanide	ND	Work Order #: DJASN101		MB Lot-Sample #:	A0H230000-359	
		200	mg/kg	SW846 7.3.3	08/23/00	0236359
		Dilution Factor: 1				

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0H160154

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Reactive Sulfide	ND	Work Order #: DJA61101 200	mg/kg	MB Lot-Sample #: SW846 7.3.4	A0H230000-360 08/23/00	0236360
		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 #...: C0H160154

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 #: DHXDK101 (85 - 115)	LCS Lot-Sample#: C0H160000-262 SW846 9045C	08/16/00	0229262
		Dilution Factor: 1			

NOTE (S) :

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0H160154 Work Order #...: DHX4A-SMP Matrix.....: SOLID

DHX4A-DUP

Date Sampled...: 08/15/00

Date Received...: 08/16/00

% Moisture.....: 15

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 #: C0H160154-003 SW846 7.3.3	08/23/00	0236359
Dilution Factor: 1								
Prep Date.....: 0236168 Analysis Date...: Prep Batch #...:								
Reactive Sulfide	ND	ND	mg/kg	0	(0-20)	SD Lot-Sample #: C0H160154-003 SW846 7.3.4	08/23/00	0236360
Dilution Factor: 1								
Prep Date . . .: 0236169 Analysis Date...: Prep Batch #...:								

General Chemistry

Matrix.....: SOLID

Date Received..: 08/16/00

% Moisture.....: 20

Ignitability

SD Lot-Sample #: C0H160154-001
No Units 0 (0-0.0) SW846 SECTION 7.1 08/16/00 0229248
Dilution Factor: 1
Prep Date..: 0229107 Analysis Date...: Prep Batch #....:

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0H160154

Work Order #...: DJ1MA-SMP
DJ1MA-DUP

Matrix.....: WATER

Date Sampled...: 08/16/00

Date Received..: 08/17/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Reactive Cyanide						SD Lot-Sample #:	A0H170197-007	
ND	ND		mg/kg	0.0	(0-20)	SW846 7.3.3	08/23/00	0236359
			Dilution Factor: 1					
			Prep Date.....: 0236168		Analysis Date...		Prep Batch #....:	
Reactive Sulfide						SD Lot-Sample #:	A0H170197-007	
ND	ND		mg/kg	0	(0-20)	SW846 7.3.4	08/23/00	0236360
			Dilution Factor: 1					
			Prep Date.....: 0236169		Analysis Date...		Prep Batch #...:	

GC/MS VOLATILE DATA

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**GC/MS VOLATILE
QC SUMMARY**

SW846 8260B SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0H160154

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	DF/S1/0228/SDC/028	91	89	88	81	00
02	DF/S1/0228/SDC/026	89	92	89	84	00
03	DF/S1/0228/SDC/027	89	92	87	84	00
04	METHOD BLK. DJ6X8101	93	91	90	94	00
05	LCS DJ748101	97	91	98	92	00
06	DF/S1/0228/SDC/026 D	94	90	97	93	00
07	DF/S1/0228/SDC/026 S	97	91	98	93	00

SURROGATES

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

QC LIMITS

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

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

FORM II

669 118 SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0H220000

WO #: DJ748101

BATCH: 0235134

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

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UKB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: C0H160154

WO #: DHX4011E

BATCH: 0235134

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

NOTES (S) :

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

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

COMMENTS:

669 120 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: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: C0H160154

WO #: DHX4011F

BATCH: 0235134

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

NOTES (S) :

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

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

COMMENTS:

FORM III

BLANK WORKORDER NO.

SW846 8260B METHOD BLANK SUMMARY

DJ6X8101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: 5082203.D

Lot Number: COH160154

Date Analyzed: 08/22/00

Time Analyzed: 07:41

Matrix: SOLID

Date Extracted: 08/22/00

GC Column: ID: .00

Extraction Method: 1311/5030B

Instrument ID: HP5

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DF/S1/0228/SDC/028	DHX4A102	5082209.D	08/22/00	10:07
02	DF/S1/0228/SDC/026	DHX40102	5082207.D	08/22/00	09:18
03	DF/S1/0228/SDC/026	DHX4011E S	5082211.D	08/22/00	10:56
04	DF/S1/0228/SDC/026	DHX4011F D	5082212.D	08/22/00	11:20
05	DF/S1/0228/SDC/027	DHX47102	5082208.D	08/22/00	09:42
06	CHECK SAMPLE	DJ748101 C	5082210.D	08/22/00	10:31
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

669 122

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.:

SDG No.: METHODS

Lab File ID: BF50802K

BFB Injection Date: 08/02/00

Instrument ID: HP5

BFB Injection Time: 1308

GC Column: DB624 20M ID: 0.20 (mm)

Heated Purge: (Y/N) N

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

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSXD50	VSTD50	CC50802K	08/02/00	1338
02	VSTD100	VSTD100	1D50802K	08/02/00	2014
03	VSTD200	VSTD200	1E50803K	08/02/00	2041
04	VSTD5	VSTD5	2A50802K	08/02/00	2120
05	VSTD20	VSTD20	2B50802K	08/02/00	2147
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0H160154

Lab File ID: BF50822

BFB Injection Date: 08/22/00

Instrument ID: HP5

BFB Injection Time: 0525

GC Column: DB624 20M ID: 0.20 (mm)

Heated Purge: (Y/N) N

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

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	CC50822	08/22/00	0550
02	INTRA-LAB BL	DJ6X8101	5082203	08/22/00	0741
03	DF/S1/0228/S	DHX40102	5082207	08/22/00	0918
04	DF/S1/0228/S	DHX47102	5082208	08/22/00	0942
05	DF/S1/0228/S	DHX4A102	5082209	08/22/00	1007
06	INTRA-LAB CH	DJ748101	5082210	08/22/00	1031
07	DF/S1/0228/S	DHX4011E	5082211	08/22/00	1056
08	DF/S1/0228/S	DHX4011F	5082212	08/22/00	1120
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

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8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: C0H160154

Lab File ID (Standard): CC50822

Date Analyzed: 08/22/00

Instrument ID: HP5

Time Analyzed: 0550

GC Column: DB 624 ID: 0.20 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ)	RT #	IS2 (DCB)	RT #	IS3	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	146944	9.97	224422	12.27	648101	6.88
UPPER LIMIT	293888	10.17	448844	12.47	1296202	7.08
LOWER LIMIT	73472	9.77	112211	12.07	324051	6.68
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	143051	9.96	190736	12.28	617428	6.88
02 DF/S1/0228/S	139999	9.97	177646	12.27	612743	6.89
03 DF/S1/0228/S	138234	9.96	170468	12.28	607690	6.89
04 DF/S1/0228/S	139782	9.97	176317	12.27	595626	6.88
05 INTRA-LAB CH	145916	9.97	197376	12.27	635208	6.88
06 DF/S1/0228/S	147990	9.97	211673	12.28	621139	6.89
07 DF/S1/0228/S	148659	9.97	216950	12.27	643923	6.88
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 VOLATILE
SAMPLE DATA**

669 126

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/16/00

Work Order: DHX40102

Date Extracted: 08/22/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 20

QC Batch: 0235134

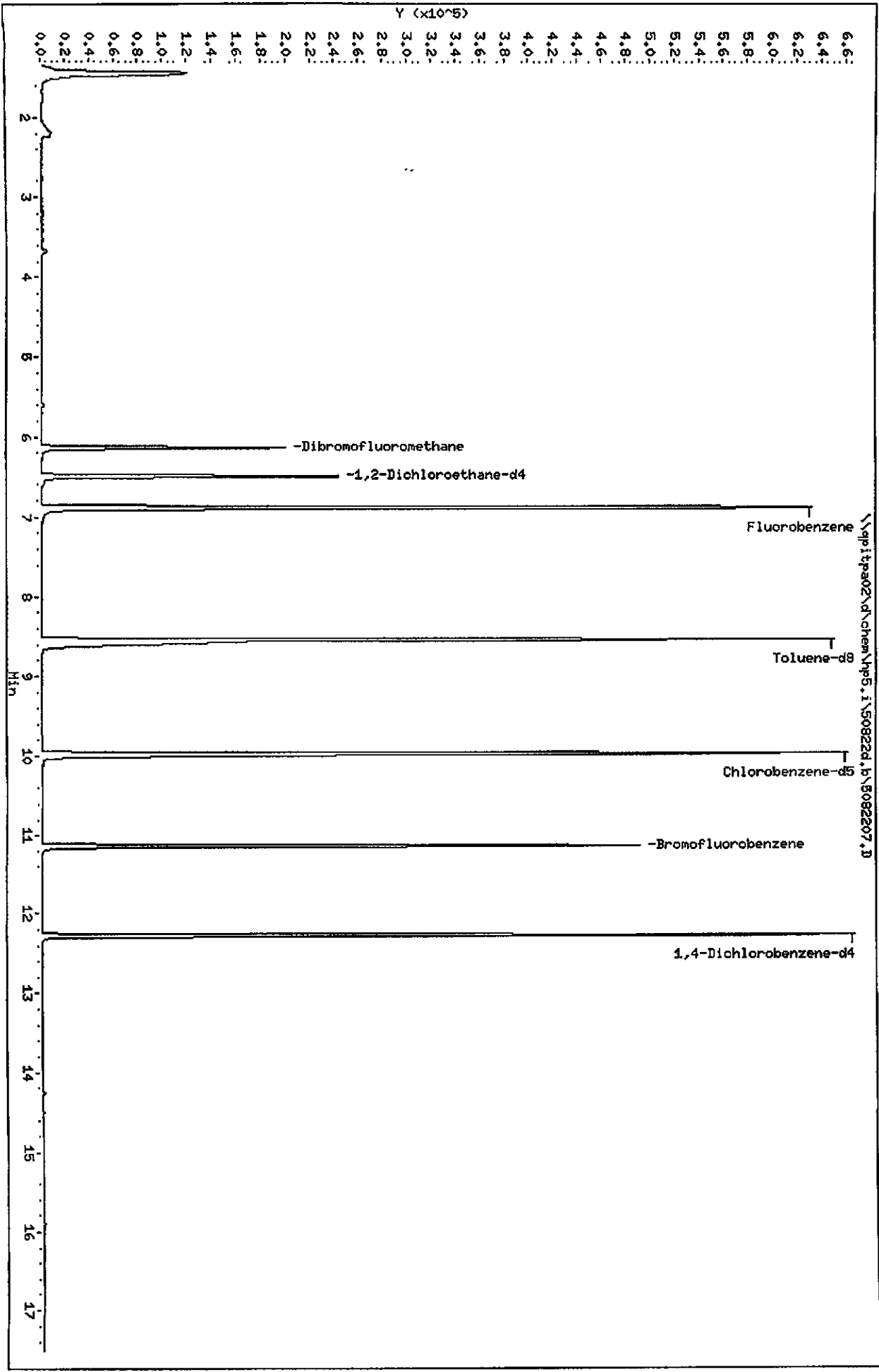
Client Sample Id: DF/S1/0228/SDC/026

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

FORM I

Data File: \\ppitpa02\chem\hp5.1\50822a.b\5082207.D
 Date : 22-AUG-2000 09:18
 Client ID: DF/S1/0228/SDC/026
 Sample Info: coh160184-001 (1ml/10ml)/5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp5.1
 Operator: 10099
 Column diameter: 0.20



669 128

Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\5082207.D
 Report Date: 22-Aug-2000 10:02

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50822d.b\5082207.D
 Lab Smp Id: DHX40102 Client Smp ID: DF/S1/0228/SDC/026
 Inj Date : 22-AUG-2000 09:18 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 10099 Inst ID: hp5.i
 Smp Info : c0h160154-001 (1ml/10ml)/5ml
 Misc Info : dhx40102,50822d.b,8260bh2o.m,tclp.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50822d.b\8260bh2o.m
 Meth Date : 22-Aug-2000 06:24 gordonk Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC063

Kig 8/22/00

Compound Sublist: tclp.sub

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.888	6.881	(1.000)	612743	250.000	
* 69 Chlorobenzene-d5	119	9.966	9.965	(1.000)	139999	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.272	12.271	(1.000)	177646	250.000	
\$ 39 Dibromofluoromethane	113	6.134	6.126	(0.890)	129238	221.381	44.28
\$ 43 1,2-Dichloroethane-d4	65	6.493	6.485	(0.943)	166304	223.121	44.62
\$ 59 Toluene-d8	98	8.537	8.535	(0.857)	599004	230.855	46.17
\$ 80 Bromofluorobenzene	95	11.128	11.133	(1.117)	201177	210.644	42.13
3 Vinyl Chloride	62	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
31 2-Butanone	43	Compound Not Detected.					
37 Chloroform	83	Compound Not Detected.					
41 Carbon Tetrachloride	117	Compound Not Detected.					
42 Benzene	78	Compound Not Detected.					
45 1,2-Dichloroethane	62	Compound Not Detected.					
47 Trichloroethene	130	Compound Not Detected.					
65 Tetrachloroethene	164	Compound Not Detected.					

Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\5082207.D
Report Date: 22-Aug-2000 10:02

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

669 130

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/16/00

Work Order: DHX47102

Date Extracted: 08/22/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 21

QC Batch: 0235134

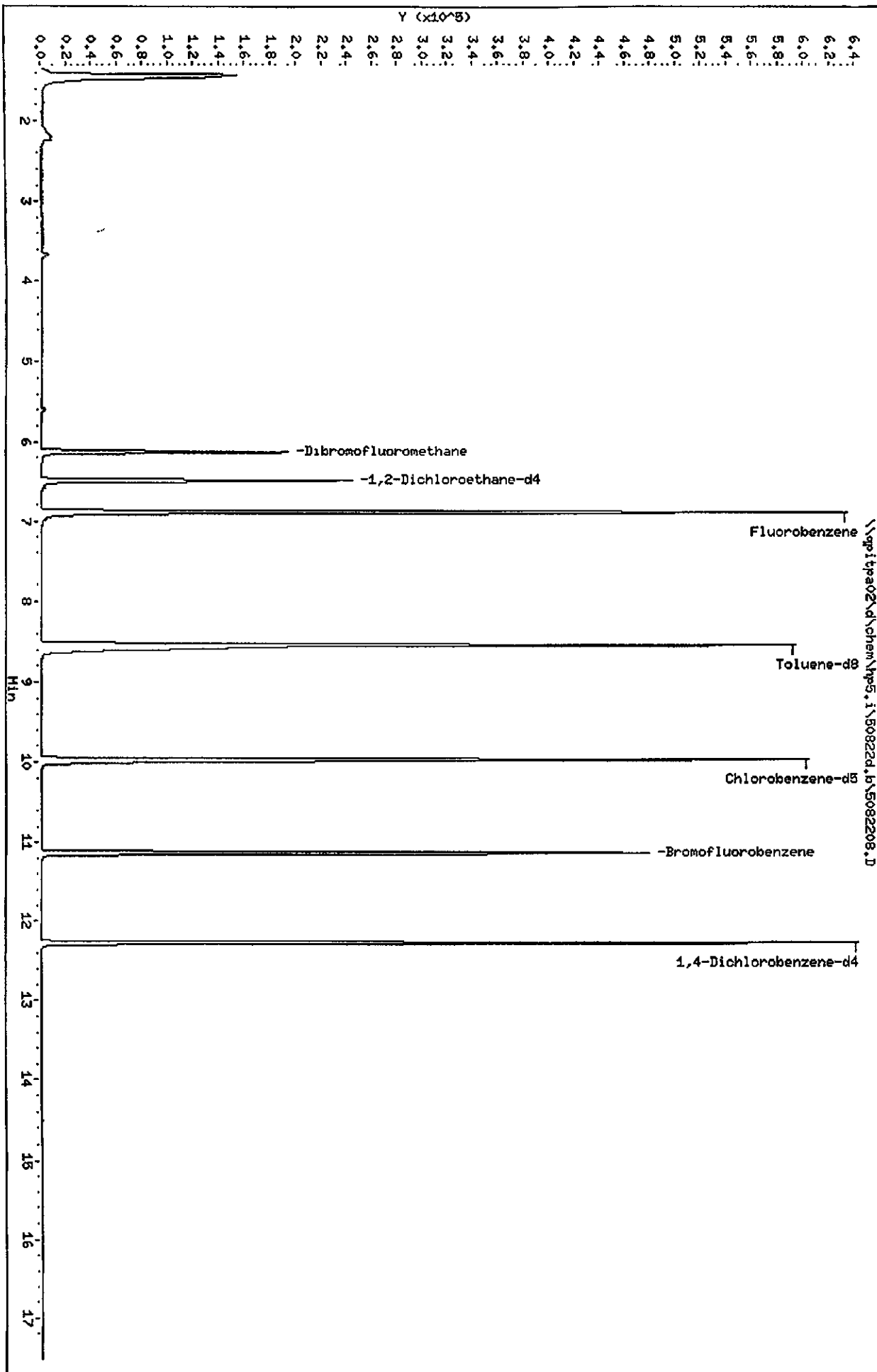
Client Sample Id: DF/S1/0228/SDC/027

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

FORM I

Data File: \\qplipao2\chem\hp5.i\50822d.b\5082208.D
Date: 22-AUG-2000 09:42
Client ID: MF/S1/0228/SDC/027
Sample Info: c0h16o154-002 (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

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



669 132

Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\5082208.D
Report Date: 22-Aug-2000 10:03

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50822d.b\5082208.D
 Lab Smp Id: DHX47102 Client Smp ID: DF/S1/0228/SDC/027
 Inj Date : 22-AUG-2000 09:42 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 10099 Inst ID: hp5.i
 Smp Info : c0h160154-002 (1ml/10ml)/5ml
 Misc Info : dhx47102,50822d.b,8260bh2o.m,tclp.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50822d.b\8260bh2o.m
 Meth Date : 22-Aug-2000 06:24 gordonk Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC063

Compound Sublist: tclp.sub

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96		6.886	6.881	(1.000)	607690	250.000	
* 69 Chlorobenzene-d5	119		9.964	9.965	(1.000)	138234	250.000	
* 92 1,4-Dichlorobenzene-d4	152		12.276	12.271	(1.000)	170468	250.000	
\$ 39 Dibromofluoromethane	113		6.131	6.126	(0.890)	126629	218.716	43.74
\$ 43 1,2-Dichloroethane-d4	65		6.496	6.485	(0.943)	164904	223.082	44.62
\$ 59 Toluene-d8	98		8.541	8.535	(0.857)	591020	230.686	46.14
\$ 80 Bromofluorobenzene	95		11.132	11.133	(1.117)	196933	208.833	41.77
3 Vinyl Chloride	62							
12 1,1-Dichloroethene	96							
31 2-Butanone	43							
37 Chloroform	83							
41 Carbon Tetrachloride	117							
42 Benzene	78							
45 1,2-Dichloroethane	62							
47 Trichloroethene	130							
65 Tetrachloroethene	164							

Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\5082208.D
Report Date: 22-Aug-2000 10:03

Page 2

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

Compound Not Detected.

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/16/00

Work Order: DHX4A102

Date Extracted: 08/22/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 15

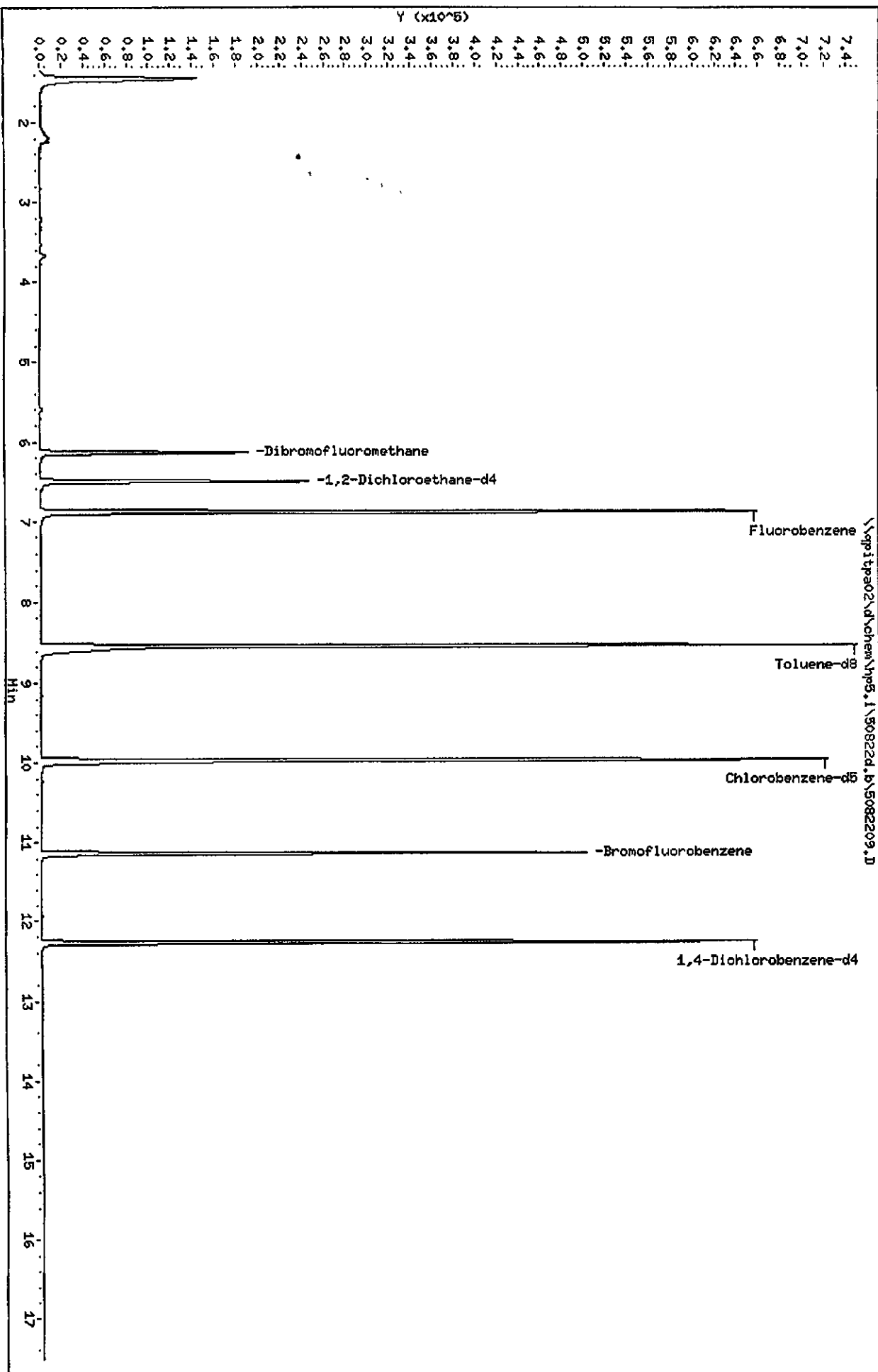
QC Batch: 0235134

Client Sample Id: DF/S1/0228/SDC/028

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: \\qpltpa02\chem\hp5.1\50822d.b\5082209.D
Date: 22-AUG-2000 10:07
Client ID: HF/SL/0228/SDC/028
Sample Info: con160154-003 (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

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



STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50822d.b\5082209.D
 Lab Smp Id: DHX4A102 Client Smp ID: DF/S1/0228/SDC/028
 Inj Date : 22-AUG-2000 10:07 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 10099 Inst ID: hp5.i
 Smp Info : c0h160154-003 (1ml/10ml)/5ml
 Misc Info : dhx4a102,50822d.b,8260bh2o.m,tclp.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50822d.b\8260bh2o.m
 Meth Date : 22-Aug-2000 06:24 gordonk Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC063

Compound Sublist: tclp.sub

KLG
8/22/00

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.882	6.881	(1.000)	595626	250.000	
* 69 Chlorobenzene-d5	119	9.966	9.965	(1.000)	139782	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.272	12.271	(1.000)	176317	250.000	
\$ 39 Dibromofluoromethane	113	6.133	6.126	(0.891)	125554	221.252	44.25
\$ 43 1,2-Dichloroethane-d4	65	6.492	6.485	(0.943)	163967	226.307	45.26
\$ 59 Toluene-d8	98	8.536	8.535	(0.857)	578944	223.470	44.69
\$ 80 Bromofluorobenzene	95	11.128	11.133	(1.117)	193000	202.396	40.48
3 Vinyl Chloride	62	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
31 2-Butanone	43	Compound Not Detected.					
37 Chloroform	83	Compound Not Detected.					
41 Carbon Tetrachloride	117	Compound Not Detected.					
42 Benzene	78	Compound Not Detected.					
45 1,2-Dichloroethane	62	Compound Not Detected.					
47 Trichloroethene	130	Compound Not Detected.					
65 Tetrachloroethene	164	Compound Not Detected.					

Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\5082209.D
Report Date: 22-Aug-2000 10:28

Page 2

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

669 138

**GC/MS VOLATILE
CALIBRATION DATA**

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP5

Calibration Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N

Calibration Time(s): 1338

2147

GC Column: DB 624

ID: 0.20 (mm)

LAB FILE ID:		RRF5 =2A50802K		RRF20 =2B50802K			
RRF50 =CC50802K		RRF100=1D50802K		RRF200=1E50803K			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.180	0.198	0.184	0.196	0.144	0.180	12.2
Chloromethane	* 0.261	0.295	0.261	0.295	0.274	0.277	6.1*
Vinyl Chloride	0.259	0.290	0.258	0.282	0.230	0.264	8.9
Bromomethane	0.050	0.036	0.031	0.038	0.029	0.037	22.5
Chloroethane	0.046	0.046	0.055	0.052	0.039	0.048	12.6
Trichlorofluoromethane	0.064	0.072	0.085	0.077	0.042	0.068	23.9
1,1-Dichloroethene	0.176	0.217	0.199	0.210	0.169	0.194	10.7
Methylene Chloride	0.191	0.240	0.229	0.280	0.270	0.242	14.6
trans-1,2-Dichloroethene	0.215	0.255	0.216	0.245	0.241	0.234	7.7
1,1-Dichloroethane	* 0.398	0.468	0.416	0.484	0.451	0.443	8.1*
cis-1,2-dichloroethene	0.238	0.285	0.245	0.300	0.295	0.273	10.6
Chloroform	0.350	0.405	0.362	0.436	0.439	0.398	10.3
Bromochloromethane	0.102	0.121	0.108	0.142	0.145	0.124	16.0
1,1,1-Trichloroethane	0.296	0.364	0.323	0.365	0.340	0.338	8.7
Carbon Tetrachloride	0.234	0.293	0.259	0.292	0.263	0.268	9.3
1,2-Dichloroethane	0.300	0.339	0.316	0.411	0.395	0.352	13.9
Benzene	0.940	1.116	0.988	1.143	1.125	1.062	8.6
Trichloroethene	0.225	0.260	0.234	0.263	0.257	0.248	6.9
1,2-Dichloropropane	0.242	0.274	0.258	0.314	0.308	0.279	11.2
Bromodichloromethane	0.240	0.273	0.270	0.343	0.338	0.293	15.6
cis-1,3-Dichloropropene	0.315	0.370	0.359	0.463	0.450	0.391	16.1
Toluene	4.806	5.192	5.014	5.077	4.766	4.971	3.6
trans-1,3-Dichloropropene	1.360	1.663	1.597	1.973	1.961	1.711	15.2
1,1,2-Trichloroethane	0.928	0.994	0.922	1.150	1.141	1.027	10.9
Tetrachloroethene	0.844	0.919	0.890	0.853	0.756	0.852	7.3
Dibromochloromethane	0.722	0.882	0.856	1.112	1.131	0.941	18.7
Chlorobenzene	* 3.084	3.344	3.045	3.322	3.274	3.214	4.3*
Ethylbenzene	1.657	1.880	1.730	1.839	1.729	1.767	5.1
Styrene	2.779	3.305	3.170	3.656	3.423	3.267	10.0
Bromoform	* 0.408	0.509	0.526	0.762	0.758	0.593	26.9*
1,1,2,2-Tetrachloroethane	* 0.921	0.985	0.888	1.148	1.051	0.999	10.4*
1,3-Dichlorobenzene	1.537	1.598	1.445	1.532	1.529	1.528	3.6
1,4-Dichlorobenzene	1.563	1.599	1.453	1.581	1.563	1.552	3.7
1,2-Dichlorobenzene	1.461	1.514	1.371	1.503	1.415	1.453	4.1
Dibromomethane	0.129	0.144	0.135	0.185	0.180	0.155	16.8
1,2-Dibromoethane	0.891	0.990	0.924	1.210	1.183	1.040	14.2
1,1,1,2-Tetrachloroethane	0.842	0.987	0.946	1.094	1.076	0.989	10.4

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP5

Calibration Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N

Calibration Time(s): 1338 2147

GC Column: DB 624 ID: 0.20 (mm)

LAB FILE ID:		RRF5 =2A50802K		RRF20 =2B50802K			
RRF50 =CC50802K		RRF100=1D50802K		RRF200=1E50803K			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
1,2,3-Trichloropropane	0.285	0.308	0.277	0.361	0.353	0.317	12.1
1,2-Dibromo-3-chloropropane	0.130	0.140	0.129	0.205	0.204	0.162	24.3
2,2-Dichloropropane	0.302	0.376	0.329	0.374	0.352	0.347	9.1
1,1-Dichloropropene	0.246	0.302	0.265	0.294	0.269	0.275	8.3
1,3-Dichloropropane	1.692	1.889	1.800	2.223	2.155	1.952	11.7
n-Propylbenzene	0.884	1.044	0.911	0.891	0.843	0.915	8.4
Bromobenzene	0.839	0.939	0.822	0.873	0.839	0.862	5.4
1,3,5-Trimethylbenzene	2.230	2.653	2.395	2.388	2.207	2.375	7.5
2-Chlorotoluene	0.781	0.893	0.803	0.816	0.808	0.820	5.2
4-Chlorotoluene	0.815	0.898	0.792	0.818	0.774	0.819	5.8
tert-Butylbenzene	2.218	2.523	2.238	2.124	1.955	2.212	9.4
1,2,4-Trimethylbenzene	2.171	2.488	2.245	2.314	2.272	2.298	5.2
sec-Butylbenzene	3.531	3.945	3.553	3.168	2.883	3.416	11.9
4-Isopropyltoluene	2.580	2.921	2.684	2.455	2.274	2.583	9.4
n-Butylbenzene	2.306	2.672	2.448	2.106	1.876	2.282	13.4
1,2,4-Trichlorobenzene	0.752	0.597	0.526	0.634	0.655	0.633	13.1
Hexachlorobutadiene	0.612	0.544	0.482	0.320	0.306	0.453	30.0
Naphthalene	2.634	1.334	1.026	1.574	1.574	1.628	37.2
1,2,3-Trichlorobenzene	1.158	0.514	0.422	0.538	0.555	0.637	46.3
Acetone	0.197	0.147	0.108	0.168	0.149	0.154	21.3
Carbon Disulfide	0.455	0.586	0.772	0.689	0.595	0.619	19.2
2-Butanone	0.762	0.343	0.173	0.268	0.244	0.358	65.3
4-Methyl-2-Pentanone	1.062	1.490	1.182	1.862	1.772	1.474	23.9
2-Hexanone	0.734	1.026	0.809	1.360	1.268	1.039	26.4
Methyl tert-butyl ether	0.502	0.589	0.682	0.850	0.904	0.705	24.1
Isopropylbenzene	4.619	5.363	5.059	5.147	4.568	4.951	7.0
1,2-Dichloroethene (total)	0.226	0.270	0.230	0.272	0.268	0.253	9.0
Xylenes (total)	1.702	2.012	1.856	2.109	1.981	1.932	8.1
Dibromofluoromethane	0.314	0.205	0.207	0.230	0.234	0.238	18.8
1,2-Dichloroethane-d4	0.403	0.255	0.260	0.301	0.300	0.304	19.6
Toluene-d8	6.743	4.105	4.379	4.041	3.899	4.633	25.7
Bromofluorobenzene	2.397	1.447	1.534	1.581	1.568	1.705	22.9

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

INITIAL CALIBRATION REPORT

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

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

COMPOUND	%RSD
Xylenes (total)	8.1
1,2-Dichloroethene (total)	9.0
Dichlorodifluoromethane	12.2
Chloromethane	6.1
Vinyl Chloride	8.9
Bromomethane	22.5
Chloroethane	12.6
Trichlorofluoromethane	23.9
1,1-Dichloroethene	10.7
Acetone	21.3
Carbon Disulfide	19.2
Methylene Chloride	14.6
trans-1,2-Dichloroethene	7.7
Methyl tert-butyl ether	24.1
1,1-Dichloroethane	8.1
2,2-Dichloropropane	9.1
cis-1,2-dichloroethene	10.6
2-Butanone	65.3
Bromochloromethane	16.0
Chloroform	10.3
1,1,1-Trichloroethane	8.7
Dibromofluoromethane	18.8
Carbon Tetrachloride	9.3
1,1-Dichloropropene	8.3
1,2-Dichloroethane-d4	19.6
Benzene	8.6
1,2-Dichloroethane	13.9
Trichloroethene	6.9
1,2-Dichloropropane	11.2
Dibromomethane	16.8
Bromodichloromethane	15.6
cis-1,3-Dichloropropene	16.1
4-Methyl-2-Pentanone	23.9
Toluene-d8	25.7
Toluene	3.6
trans-1,3-Dichloropropene	15.2
1,1,2-Trichloroethane	10.9
Tetrachloroethene	7.3
1,3-Dichloropropane	11.7

INITIAL CALIBRATION REPORT

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

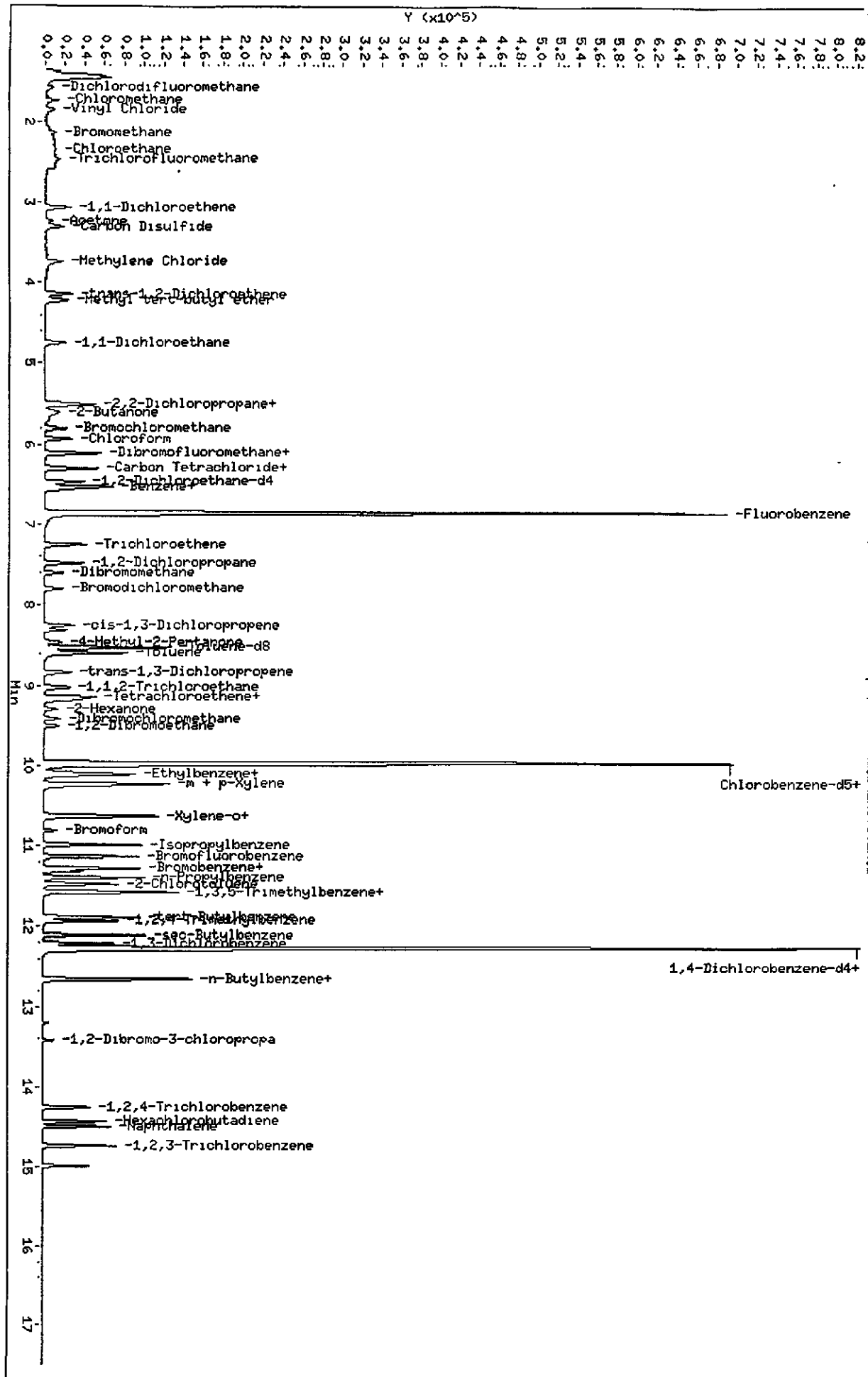
Injection Date: 02-AUG-2000 21:20
Lab Sample ID: vstd5
Method File: \\QPITPA02\D\chem\hp5.i\50802d.b

COMPOUND	%RSD
2-Hexanone	26.4
Dibromochloromethane	18.7
1,2-Dibromoethane	14.2
Chlorobenzene	4.3
1,1,1,2-Tetrachloroethane	10.4
Ethylbenzene	5.1
m + p-Xylene	4.6
Xylene-o	8.1
Styrene	10.0
Bromoform	26.9
Isopropylbenzene	7.0
Bromofluorobenzene	22.9
1,1,2,2-Tetrachloroethane	10.4
Bromobenzene	5.4
1,2,3-Trichloropropane	12.1
n-Propylbenzene	8.4
2-Chlorotoluene	5.2
1,3,5-Trimethylbenzene	7.5
4-Chlorotoluene	5.8
tert-Butylbenzene	9.4
1,2,4-Trimethylbenzene	5.2
sec-Butylbenzene	11.9
1,3-Dichlorobenzene	3.6
4-Isopropyltoluene	9.4
1,4-Dichlorobenzene	3.7
n-Butylbenzene	13.4
1,2-Dichlorobenzene	4.1
1,2-Dibromo-3-chloropropane	24.3
1,2,4-Trichlorobenzene	13.1
Hexachlorobutadiene	30.0
Naphthalene	37.2
1,2,3-Trichlorobenzene	46.3

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

Data File: \\QPI7PA02\J\chem\hp5.1\50802d.b\2A50802K.D
 Date: 02-AUG-2000 21:20
 Client ID: vsld5
 Sample Info: vsld5 SHL
 Purge Volume: 5.0
 Column phase: DB 624

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



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Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\2A50802K.D
Report Date: 02-Aug-2000 22:49

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STL Pittsburgh

VOLATILE REPORT SW-846 Method

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

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

p11 8/2/00

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

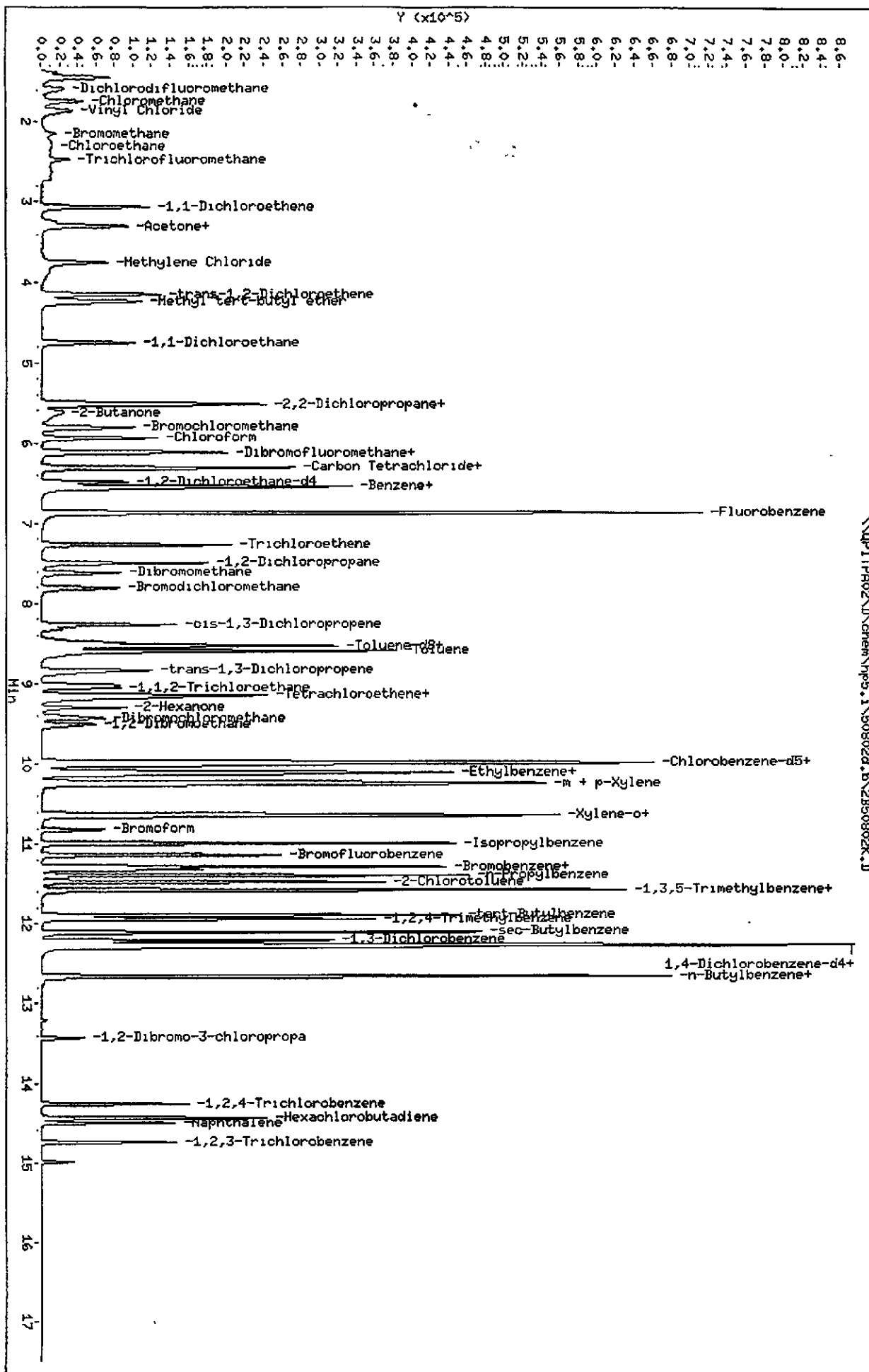
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ng)	(ng)
* 46 Fluorobenzene		96	6.863	6.863	(1.000)	687073	250.000	
* 69 Chlorobenzene-d5		119	9.966	9.966	(1.000)	157933	250.000	
* 92 1,4-Dichlorobenzene-d4		152	12.272	12.272	(1.000)	210625	250.000	
\$ 39 Dibromofluoromethane		113	6.121	6.121	(0.892)	21609	25.0000	33.01
\$ 43 1,2-Dichloroethane-d4		65	6.480	6.480	(0.944)	27715	25.0000	33.16
\$ 59 Toluene-d8		98	8.524	8.524	(0.855)	106488	25.0000	36.38
\$ 80 Bromofluorobenzene		95	11.134	11.134	(1.117)	37858	25.0000	35.14
1 Dichlorodifluoromethane		85	1.577	1.577	(0.230)	12365	25.0000	24.91
2 Chloromethane		50	1.735	1.735	(0.253)	17929	25.0000	23.53
3 Vinyl Chloride		62	1.851	1.851	(0.270)	17788	25.0000	24.52
4 Bromomethane		94	2.137	2.137	(0.311)	3428	25.0000	33.89
5 Chloroethane		64	2.240	2.240	(0.326)	3139	25.0000	24.00
6 Trichlorofluoromethane		101	2.465	2.465	(0.359)	4400	25.0000	23.48
12 1,1-Dichloroethene		96	3.067	3.067	(0.447)	12104	25.0000	22.66
13 Acetone		43	3.232	3.232	(0.471)	13554	25.0000	32.08
15 Carbon Disulfide		76	3.305	3.305	(0.482)	31287	25.0000	18.38

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.743	3 743	(0.545)	13130	25.0000	19.74
19 trans-1,2-Dichloroethene	96	4.144	4 144	(0.604)	14780	25 0000	22.96
20 Methyl tert-butyl ether	73	4.223	4 223	(0.615)	34458	25 0000	17 77
24 1,1-Dichloroethane	63	4.746	4 746	(0.692)	27330	25 0000	22 42
27 2,2-Dichloropropane	77	5.501	5 501	(0.801)	20736	25 0000	21.77
28 cis-1,2-dichloroethene	96	5.519	5.519	(0.804)	16356	25 0000	21.82
31 2-Butanone	43	5.604	5 604	(0.817)	52392	25.0000	53 20
30 Bromochloromethane	128	5.805	5.805	(0.846)	6983	25.0000	20.55
37 Chloroform	83	5.933	5.933	(0.864)	24074	25 0000	21 98
38 1,1,1-Trichloroethane	97	6.115	6.115	(0.891)	20338	25.0000	21.92
41 Carbon Tetrachloride	117	6.304	6 304	(0.918)	16064	25 0000	21.78
40 1,1-Dichloropropene	75	6.310	6 310	(0.919)	16917	25 0000	22.34
42 Benzene	78	6.541	6.541	(0.953)	64620	25 0000	22.13
45 1,2-Dichloroethane	62	6.565	6.565	(0.957)	20623	25.0000	21 30
47 Trichloroethene	130	7.259	7.259	(1.058)	15438	25.0000	22 67
49 1,2-Dichloropropane	63	7.490	7.490	(1.091)	16660	25.0000	21 71
50 Dibromomethane	93	7.612	7 612	(1.109)	8888	25 0000	20.92
53 Bromodichloromethane	83	7.800	7 800	(1.136)	16507	25.0000	20.50
57 cis-1,3-Dichloropropene	75	8.257	8 257	(1.203)	21676	25.0000	20.15
58 4-Methyl-2-Pentanone	43	8.463	8 463	(0.849)	16780	25.0000	18.02
60 Toluene	91	8.591	8 591	(0.862)	75896	25.0000	24 17
61 trans-1,3-Dichloropropene	75	8.835	8 835	(0.886)	21475	25.0000	19.87
64 1,1,2-Trichloroethane	97	9.029	9.029	(0.906)	14660	25.0000	22 59
65 Tetrachloroethene	164	9.139	9.139	(0.917)	13323	25.0000	24.74
67 Dibromochloromethane	129	9.412	9.412	(0.944)	11404	25 0000	19 19
63 1,3-Dichloropropane	76	9.169	9 169	(0.920)	26724	25 0000	21 67
66 2-Hexanone	43	9.285	9 285	(0.932)	11592	25 0000	17 65
68 1,2-Dibromoethane	107	9.498	9 498	(0.953)	14069	25 0000	21 42
70 Chlorobenzene	112	9.996	9.996	(1.003)	48700	25.0000	23.99
72 Ethylbenzene	106	10.106	10.106	(1.014)	26166	25 0000	23 44
71 1,1,1,2-Tetrachloroethane	131	10.082	10 082	(1.012)	13304	25.0000	21.29
73 m + p-Xylene	106	10.228	10.228	(1.026)	60830	50 0000	47 75
74 Xylene-o	106	10.617	10.617	(1.065)	26874	25 0000	22.02
76 Styrene	104	10.635	10.635	(1.067)	43891	25 0000	21.27
77 Bromoform	173	10.806	10 806	(1.084)	6444	25 0000	17.22
78 Isopropylbenzene	105	10.988	10 988	(1.103)	72953	25.0000	23 32
79 Bromobenzene	156	11.280	11.280	(0.919)	17681	25.0000	24 33
83 1,1,2,2-Tetrachloroethane	83	11.274	11.274	(0.919)	19405	25.0000	23.06
84 1,2,3-Trichloropropane	110	11.310	11.310	(0.922)	6004	25 0000	22 50
81 n-Propylbenzene	120	11.390	11.390	(0.928)	18623	25 0000	24.17
82 2-Chlorotoluene	126	11.475	11 475	(0.935)	16447	25.0000	23 80
86 1,3,5-Trimethylbenzene	105	11.566	11.566	(0.942)	46969	25.0000	23 48
85 4-Chlorotoluene	126	11.578	11.578	(0.943)	17158	25.0000	24 85
87 tert-Butylbenzene	119	11.888	11.888	(0.969)	46716	25 0000	25 07
88 1,2,4-Trimethylbenzene	105	11.937	11 937	(0.973)	45721	25 0000	23 62
89 sec-Butylbenzene	105	12.107	12 107	(0.987)	74375	25 0000	25.84
91 1,3-Dichlorobenzene	146	12.211	12 211	(0.995)	32379	25 0000	25.15

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
=====	====	==	=====	=====	=====	=====	=====
90 4-Isopropyltoluene	119	12.253	12.253	(0.999)	54348	25.0000	24.98
93 1,4-Dichlorobenzene	146	12.296	12.296	(1.002)	32914	25.0000	25.18
94 n-Butylbenzene	91	12.655	12.655	(1.031)	48569	25.0000	25.26
95 1,2-Dichlorobenzene	146	12.661	12.661	(1.032)	30767	25.0000	25.14
96 1,2-Dibromo-3-chloropropane	157	13.428	13.428	(1.094)	2741	25.0000	20.14
97 1,2,4-Trichlorobenzene	180	14.261	14.261	(1.162)	15831	25.0000	29.70
98 Hexachlorobutadiene	225	14.443	14.443	(1.177)	12896	25.0000	33.78
99 Naphthalene	128	14.504	14.504	(1.182)	55482	25.0000	40.44
100 1,2,3-Trichlorobenzene	180	14.748	14.748	(1.202)	24382	25.0000	45.40
M 29 1,2-Dichloroethene (total)	96				31136	50.0000	44.70
M 75 Xylenes (total)	106				87704	25.0000	71.86

Data File: \\QIPITPA02\chem\hpe5.1\50802d.b\2B50802K.D
 Date: 02-AUG-2000 21:47
 Client ID: vstd20
 Sample Info: vstd20 5HL
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hpe5.1
 Operator: 034635
 Column diameter: 0.20



669 148

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\2B50802K.D

Page 1

Report Date: 02-Aug-2000 22:07

STL Pittsburgh

VOLATILE REPORT SW-846 Method

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

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

pu/s/2/4

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

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.867	6.867	(1.000)	698002	250.000	
* 69 Chlorobenzene-d5	119	9.975	9.975	(1.000)	161574	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.275	12.275	(1.000)	211681	250.000	
\$ 39 Dibromofluoromethane	113	6.125	6.125	(0.892)	57211	100.000	86.03
\$ 43 1,2-Dichloroethane-d4	65	6.483	6.483	(0.944)	71317	100.000	83.99
\$ 59 Toluene-d8	98	8.528	8.528	(0.855)	265317	100.000	88.60
\$ 80 Bromofluorobenzene	95	11.137	11.137	(1.116)	93538	100.000	84.86
1 Dichlorodifluoromethane	85	1.592	1.592	(0.232)	55421	100.000	109.9
2 Chloromethane	50	1.738	1.738	(0.253)	82302	100.000	106.3
3 Vinyl Chloride	62	1.860	1.860	(0.271)	81070	100.000	110.0
4 Bromomethane	94	2.146	2.146	(0.313)	10187	100.000	99.14
5 Chloroethane	64	2.274	2.274	(0.331)	12868	100.000	96.85
6 Trichlorofluoromethane	101	2.474	2.474	(0.360)	20188	100.000	106.0
12 1,1-Dichloroethene	96	3.065	3.065	(0.446)	60558	100.000	111.6
13 Acetone	43	3.241	3.241	(0.472)	41036	100.000	95.61
15 Carbon Disulfide	76	3.302	3.302	(0.481)	163761	100.000	94.67

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.746	3.746	(0.546)	67084		100.000	99.29
19 trans-1,2-Dichloroethene	96	4.147	4.147	(0.604)	71236		100.000	108.9
20 Methyl tert-butyl ether	73	4.233	4.233	(0.616)	164574		100.000	83.54
24 1,1-Dichloroethane	63	4.756	4.756	(0.693)	130791		100.000	105.6
27 2,2-Dichloropropane	77	5.510	5.510	(0.802)	104841		100.000	108.4
28 cis-1,2-dichloroethene	96	5.522	5.522	(0.804)	79538		100.000	104.5
31 2-Butanone	43	5.614	5.614	(0.818)	95899		100.000	95.85
30 Bromochloromethane	128	5.808	5.808	(0.846)	33835		100.000	98.00
37 Chloroform	83	5.942	5.942	(0.865)	113103		100.000	101.6
38 1,1,1-Trichloroethane	97	6.112	6.112	(0.890)	101784		100.000	108.0
41 Carbon Tetrachloride	117	6.307	6.307	(0.918)	81944		100.000	109.4
40 1,1-Dichloropropene	75	6.313	6.313	(0.919)	84476		100.000	109.8
42 Benzene	78	6.538	6.538	(0.952)	311636		100.000	105.0
45 1,2-Dichloroethane	62	6.569	6.569	(0.957)	94592		100.000	96.19
47 Trichloroethene	130	7.262	7.262	(1.058)	72516		100.000	104.8
49 1,2-Dichloropropane	63	7.493	7.493	(1.091)	76451		100.000	98.05
50 Dibromomethane	93	7.615	7.615	(1.109)	40139		100.000	93.01
53 Bromodichloromethane	83	7.804	7.804	(1.136)	76185		100.000	93.13
57 cis-1,3-Dichloropropene	75	8.260	8.260	(1.203)	103293		100.000	94.51
58 4-Methyl-2-Pentanone	43	8.491	8.491	(0.851)	96287		100.000	101.1
60 Toluene	91	8.594	8.594	(0.862)	335539		100.000	104.4
61 trans-1,3-Dichloropropene	75	8.832	8.832	(0.885)	107465		100.000	97.20
64 1,1,2-Trichloroethane	97	9.039	9.039	(0.906)	64253		100.000	96.78
65 Tetrachloroethene	164	9.142	9.142	(0.916)	59391		100.000	107.8
67 Dibromochloromethane	129	9.428	9.428	(0.945)	57018		100.000	93.79
63 1,3-Dichloropropane	76	9.172	9.172	(0.920)	122108		100.000	96.79
66 2-Hexanone	43	9.300	9.300	(0.932)	66302		100.000	98.70
68 1,2-Dibromoethane	107	9.495	9.495	(0.952)	64011		100.000	95.26
70 Chlorobenzene	112	10.006	10.006	(1.003)	216100		100.000	104.0
72 Ethylbenzene	106	10.109	10.109	(1.013)	121510		100.000	106.4
71 1,1,1,2-Tetrachloroethane	131	10.097	10.097	(1.012)	63793		100.000	99.80
73 m + p-Xylene	106	10.231	10.231	(1.026)	275041		200.000	211.0
74 Xylene-o	106	10.626	10.626	(1.065)	130035		100.000	104.1
76 Styrene	104	10.645	10.645	(1.067)	213585		100.000	101.2
77 Bromoform	173	10.815	10.815	(1.084)	32886		100.000	85.88
78 Isopropylbenzene	105	10.991	10.991	(1.102)	346609		100.000	108.3
79 Bromobenzene	156	11.283	11.283	(0.919)	79496		100.000	108.9
83 1,1,2,2-Tetrachloroethane	83	11.283	11.283	(0.919)	83410		100.000	98.64
84 1,2,3-Trichloropropane	110	11.320	11.320	(0.922)	26087		100.000	97.26
81 n-Propylbenzene	120	11.393	11.393	(0.928)	88410		100.000	114.2
82 2-Chlorotoluene	126	11.478	11.478	(0.935)	75639		100.000	108.9
86 1,3,5-Trimethylbenzene	105	11.569	11.569	(0.943)	224604		100.000	111.7
85 4-Chlorotoluene	126	11.581	11.581	(0.944)	76082		100.000	109.6
87 tert-Butylbenzene	119	11.892	11.892	(0.969)	213615		100.000	114.1
88 1,2,4-Trimethylbenzene	105	11.940	11.940	(0.973)	210714		100.000	108.3
89 sec-Butylbenzene	105	12.105	12.105	(0.986)	334061		100.000	115.5
91 1,3-Dichlorobenzene	146	12.214	12.214	(0.995)	135346		100.000	104.6

669 150

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\2B50802K.D

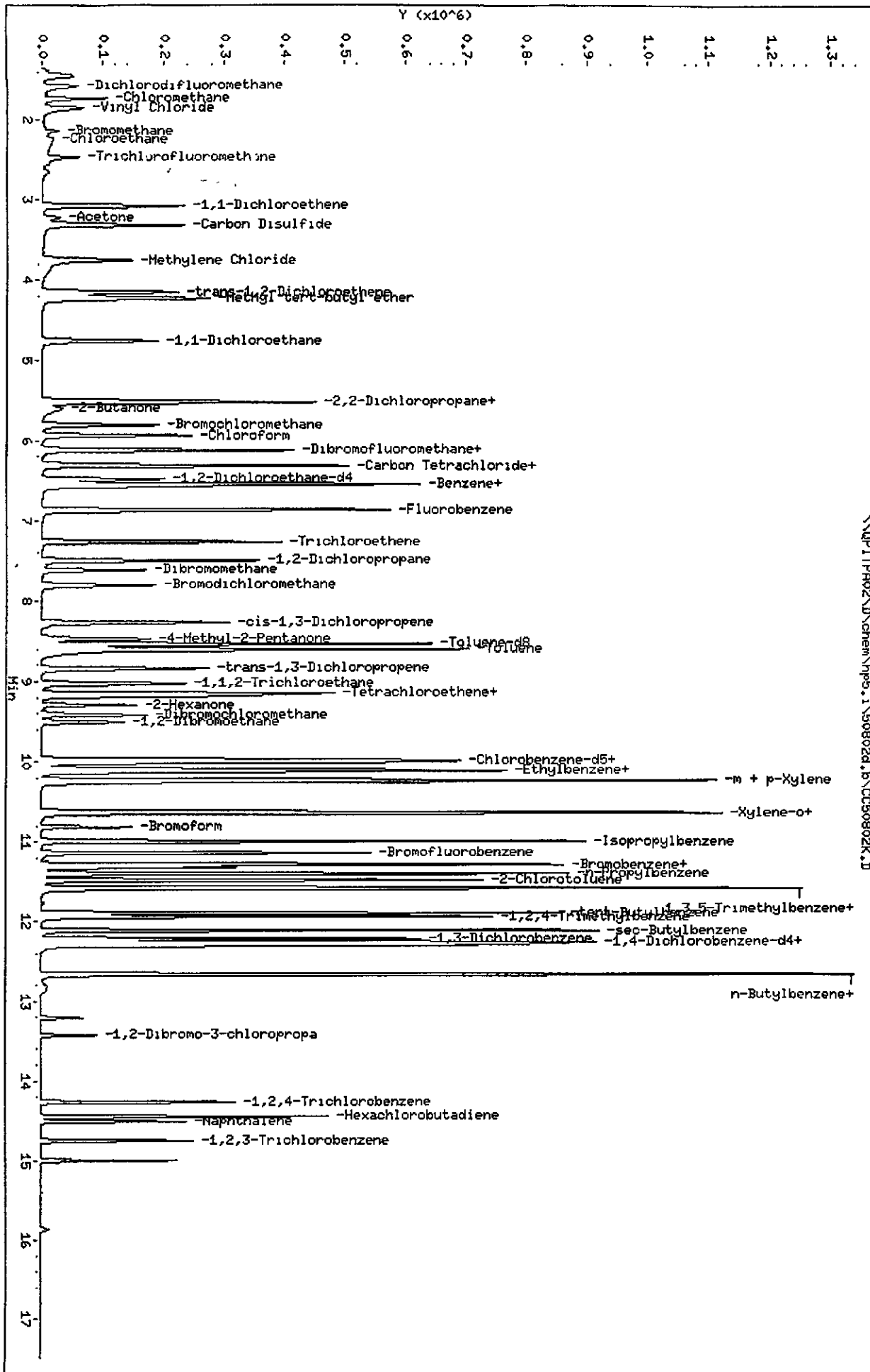
Page 3

Report Date: 02-Aug-2000 22:07

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
*****	****	==	*****	*****	*****	*****	*****
90 4-Isopropyltoluene	119	12 251	12 251	(0.998)	247366	100.000	113.1
93 1,4-Dichlorobenzene	146	12 299	12 299	(1.002)	135382	100.000	103.0
94 n-Butylbenzene	91	12.658	12.658	(1.031)	226282	100.000	117.1
95 1,2-Dichlorobenzene	146	12 664	12.664	(1.032)	128178	100.000	104.2
96 1,2-Dibromo-3-chloropropane	157	13 431	13.431	(1.094)	11885	100.000	86.90
97 1,2,4-Trichlorobenzene	180	14 264	14.264	(1.162)	50587	100.000	94.43
98 Hexachlorobutadiene	225	14.441	14.441	(1.176)	46110	100.000	120.2
99 Naphthalene	128	14.501	14.501	(1.181)	112957	100.000	81.91
100 1,2,3-Trichlorobenzene	180	14.745	14.745	(1.201)	43562	100.000	80.71
M 29 1,2-Dichloroethene (total)	96				150774	200.000	213.0
M 75 Xylenes (total)	106				405076	100.000	324.4

Data File: \\QPI1PA02\chem\hp5.1\50802d.b\CC50802K.D
 Date : 02-AUG-2000 13:38
 Client ID: vsyqf50
 Sample Info: vs1d50 SHL
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp5.1
 Operator: 034635
 Column diameter: 0.20



STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50802d.b\CC50802K.D
 Lab Smp Id: vstd50 Client Smp ID: vsyd50
 Inj Date : 02-AUG-2000 13:38 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 034635 Inst ID: hp5.1
 Smp Info : vstd50 5ML
 Misc Info : vstd50,50802d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50802d.b\8260bh2o.m
 Meth Date : 02-Aug-2000 20:58 journetp Quant Type: ISTD
 Cal Date : 02-AUG-2000 13:38 Cal File: CC50802K.D
 Als bottle: 2 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-dwlist.sub
 Target Version: 4.04
 Processing Host: PITPC076

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

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

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
*****	****	**	*****	*****	*****	*****
* 46 Fluorobenzene	96	6.869	6.869	(1.000)	570388	250.000
* 69 Chlorobenzene-d5	119	9.972	9.972	(1.000)	129893	250.000
* 92 1,4-Dichlorobenzene-d4	152	12.271	12.271	(1.000)	181026	250.000
\$ 39 Dibromofluoromethane	113	6.121	6.121	(0.891)	117962	250.000 250.0
\$ 43 1,2-Dichloroethane-d4	65	6.480	6.480	(0.943)	148281	250.000 250.0
\$ 59 Toluene-d8	98	8.524	8.524	(0.855)	568822	250.000 250.0
\$ 80 Bromofluorobenzene	95	11.134	11.134	(1.117)	199246	250.000 250.0
1 Dichlorodifluoromethane	85	1.570	1.570	(0.229)	105289	250.000 250.0
2 Chloromethane	50	1.729	1.729	(0.252)	148897	250.000 250.0
3 Vinyl Chloride	62	1.844	1.844	(0.269)	147428	250.000 250.0
4 Bromomethane	94	2.136	2.136	(0.311)	17517	250.000 250.0
5 Chloroethane	64	2.240	2.240	(0.326)	31215	250.000 250.0
6 Trichlorofluoromethane	101	2.471	2.471	(0.360)	48624	250.000 250.0
12 1,1-Dichloroethene	96	3.073	3.073	(0.447)	113629	250.000 250.0
13 Acetone	43	3.225	3.225	(0.470)	61510	250.000 250.0
15 Carbon Disulfide	76	3.310	3.310	(0.482)	440078	250.000 250.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.742	3.742	(0.545)	130580	250.000	250.0
19 trans-1,2-Dichloroethene	96	4.150	4.150	(0.604)	122948	250.000	250.0
20 Methyl tert-butyl ether	73	4.217	4.217	(0.614)	389305	250.000	250.0
24 1,1-Dichloroethane	63	4.752	4.752	(0.692)	237305	250.000	250.0
27 2,2-Dichloropropane	77	5.506	5.506	(0.802)	187509	250.000	250.0
28 cis-1,2-dichloroethene	96	5.519	5.519	(0.803)	140023	250.000	250.0
31 2-Butanone	43	5.592	5.592	(0.814)	98604	250.000	250.0
30 Bromochloromethane	128	5.805	5.805	(0.845)	61479	250.000	250.0
37 Chloroform	83	5.932	5.932	(0.864)	206800	250.000	250.0
38 1,1,1-Trichloroethane	97	6.115	6.115	(0.890)	184054	250.000	250.0
41 Carbon Tetrachloride	117	6.303	6.303	(0.918)	147650	250.000	250.0
40 1,1-Dichloropropene	75	6.309	6.309	(0.919)	151377	250.000	250.0
42 Benzene	78	6.541	6.541	(0.952)	563383	250.000	250.0
45 1,2-Dichloroethane	62	6.565	6.565	(0.956)	179985	250.000	250.0
47 Trichloroethene	130	7.265	7.265	(1.058)	133551	250.000	250.0
49 1,2-Dichloropropane	63	7.490	7.490	(1.090)	146938	250.000	250.0
50 Dibromomethane	93	7.611	7.611	(1.108)	76981	250.000	250.0
53 Bromodichloromethane	83	7.800	7.800	(1.135)	153917	250.000	250.0
57 cis-1,3-Dichloropropene	75	8.262	8.262	(1.203)	204710	250.000	250.0
58 4-Methyl-2-Pentanone	43	8.469	8.469	(0.849)	153535	250.000	250.0
60 Toluene	91	8.591	8.591	(0.862)	651330	250.000	250.0
61 trans-1,3-Dichloropropene	75	8.828	8.828	(0.885)	207421	250.000	250.0
64 1,1,2-Trichloroethane	97	9.029	9.029	(0.905)	119781	250.000	250.0
65 Tetrachloroethene	164	9.138	9.138	(0.916)	115649	250.000	250.0
67 Dibromochloromethane	129	9.412	9.412	(0.944)	111124	250.000	250.0
63 1,3-Dichloropropane	76	9.169	9.169	(0.919)	233843	250.000	250.0
66 2-Hexanone	43	9.284	9.284	(0.931)	105074	250.000	250.0
68 1,2-Dibromoethane	107	9.497	9.497	(0.952)	120031	250.000	250.0
70 Chlorobenzene	112	10.002	10.002	(1.003)	395524	250.000	250.0
72 Ethylbenzene	106	10.112	10.112	(1.014)	224695	250.000	250.0
71 1,1,1,2-Tetrachloroethane	131	10.087	10.087	(1.012)	122838	250.000	250.0
73 m + p-Xylene	106	10.227	10.227	(1.026)	507137	500.000	500.0
74 Xylene-o	106	10.623	10.623	(1.065)	241036	250.000	250.0
76 Styrene	104	10.635	10.635	(1.066)	411700	250.000	250.0
77 Bromoform	173	10.811	10.811	(1.084)	68351	250.000	250.0
78 Isopropylbenzene	105	10.988	10.988	(1.102)	657185	250.000	250.0
79 Bromobenzene	156	11.280	11.280	(0.919)	148763	250.000	250.0
83 1,1,2,2-Tetrachloroethane	83	11.280	11.280	(0.919)	160831	250.000	250.0
84 1,2,3-Trichloropropane	110	11.316	11.316	(0.922)	50187	250.000	250.0
81 n-Propylbenzene	120	11.395	11.395	(0.929)	164882	250.000	250.0
82 2-Chlorotoluene	126	11.474	11.474	(0.935)	145382	250.000	250.0
86 1,3,5-Trimethylbenzene	105	11.572	11.572	(0.943)	433522	250.000	250.0
85 4-Chlorotoluene	126	11.578	11.578	(0.943)	143371	250.000	250.0
87 tert-Butylbenzene	119	11.888	11.888	(0.969)	405047	250.000	250.0
88 1,2,4-Trimethylbenzene	105	11.937	11.937	(0.973)	406389	250.000	250.0
89 sec-Butylbenzene	105	12.107	12.107	(0.987)	643172	250.000	250.0
91 1,3-Dichlorobenzene	146	12.210	12.210	(0.995)	261521	250.000	250.0

669 154

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\CC50802K.D

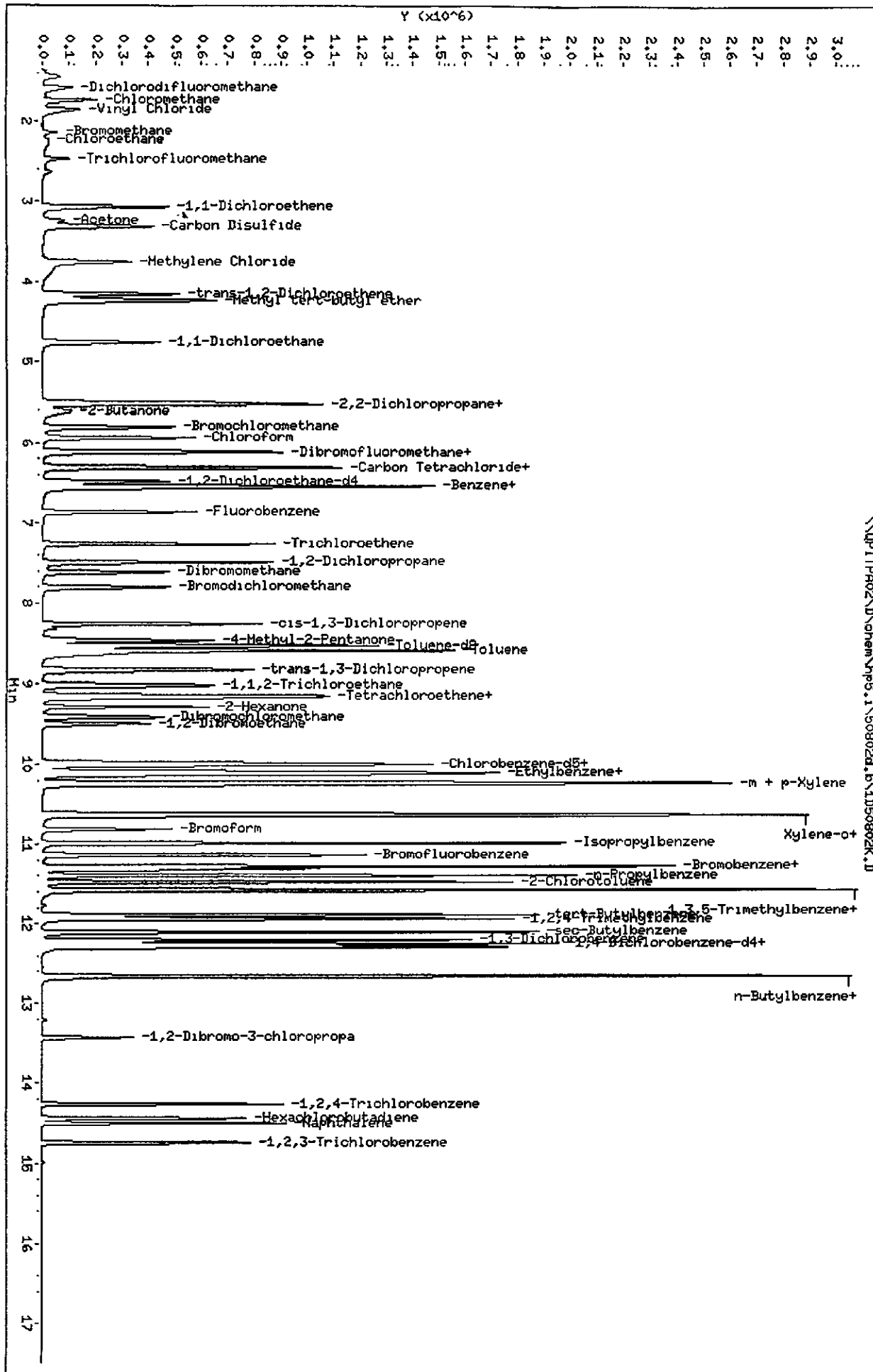
Page 3

Report Date: 02-Aug-2000 20:59

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	ON-COL
	MASS					CAL-AMT	(ng)
90 4-Isopropyltoluene	119	12.253	12.253	(0.999)	485794	250.000	250.0
93 1,4-Dichlorobenzene	146	12.296	12.296	(1.002)	263101	250.000	250.0
94 n-Butylbenzene	91	12.655	12.655	(1.031)	443246	250.000	250.0
95 1,2-Dichlorobenzene	146	12.667	12.667	(1.032)	248227	250.000	250.0
96 1,2-Dibromo-3-chloropropane	157	13.427	13.427	(1.094)	23282	250.000	250.0
97 1,2,4-Trichlorobenzene	180	14.261	14.261	(1.162)	95174	250.000	250.0
98 Hexachlorobutadiene	225	14.443	14.443	(1.177)	87330	250.000	250.0
99 Naphthalene	128	14.504	14.504	(1.182)	185770	250.000	250.0
100 1,2,3-Trichlorobenzene	180	14.747	14.747	(1.202)	76383	250.000	250.0
M 29 1,2-Dichloroethene (total)	96				262971	500.000	500.0
M 75 Xylenes (total)	106				748174	250.000	776.0

Data File: \\QPI1FA02\chem\hp5.1\508024.b\1D50802K.D
 Date: 02-AUG-2000 20:14
 Client ID: vstd100
 Sample Info: vstd100 SHL
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp5.1
 Operator: 034635
 Column diameter: 0.20



STL Pittsburgh

VOLATILE REPORT SW-846 Method

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

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

p/1 8/21^h

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

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON- COL (ng)
=====	====	==	=====	=====	=====	=====	=====
* 46 Fluorobenzene	96	6.867	6.867	{1.000}	570722	250.000	
* 69 Chlorobenzene-d5	119	9.976	9.976	{1.000}	146582	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.276	12.276	{1.000}	218584	250.000	
\$ 39 Dibromofluoromethane	113	6.125	6.125	{0.892}	262664	500.000	505.9
\$ 43 1,2-Dichloroethane-d4	65	6.484	6.484	{0.944}	343888	500.000	503.0
\$ 59 Toluene-d8	98	8.534	8.534	{0.855}	1184662	500.000	459.4
\$ 80 Bromofluorobenzene	95	11.138	11.138	{1.116}	463558	500.000	496.1
1 Dichlorodifluoromethane	85	1.581	1.581	{0.230}	224016	500.000	502.6
2 Chloromethane	50	1.739	1.739	{0.253}	336806	500.000	510.5
3 Vinyl Chloride	62	1.855	1.855	{0.270}	321536	500.000	510.8
4 Bromomethane	94	2.141	2.141	{0.312}	43437	500.000	501.8
5 Chloroethane	64	2.238	2.238	{0.326}	59428	500.000	462.7
6 Trichlorofluoromethane	101	2.475	2.475	{0.360}	87672	500.000	170.7
12 1,1-Dichloroethene	96	3.071	3.071	{0.447}	239887	500.000	501.1
13 Acetone	43	3.236	3.236	{0.471}	191463	500.000	488.0
15 Carbon Disulfide	76	3.309	3.309	{0.482}	786475	500.000	472.4

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.747	3.747	(0.546)	319075	500.000	542.0
19 trans-1,2-Dichloroethene	96	4.154	4.154	(0.605)	279203	500.000	520.5
20 Methyl tert-butyl ether	73	4.233	4.233	(0.616)	970330	500.000	547.7
24 1,1-Dichloroethane	63	4.756	4.756	(0.693)	552017	500.000	519.1
27 2,2-Dichloropropane	77	5.511	5.511	(0.802)	427004	500.000	532.7
28 cis-1,2-dichloroethene	96	5.523	5.523	(0.804)	342636	500.000	541.7
31 2-Butanone	43	5.608	5.608	(0.817)	306326	500.000	471.3
30 Bromochloromethane	128	5.809	5.809	(0.846)	162299	500.000	557.1
37 Chloroform	83	5.937	5.937	(0.864)	497815	500.000	530.0
38 1,1,1-Trichloroethane	97	6.119	6.119	(0.891)	416583	500.000	526.8
41 Carbon Tetrachloride	117	6.308	6.308	(0.919)	333315	500.000	535.2
40 1,1-Dichloropropene	75	6.314	6.314	(0.919)	336156	500.000	533.0
42 Benzene	78	6.545	6.545	(0.953)	1304308	500.000	525.7
45 1,2-Dichloroethane	62	6.569	6.569	(0.957)	469146	500.000	550.9
47 Trichloroethene	130	7.269	7.269	(1.058)	300367	500.000	521.6
49 1,2-Dichloropropane	63	7.494	7.494	(1.091)	358281	500.000	548.2
50 Dibromomethane	93	7.616	7.616	(1.109)	211356	500.000	578.0
53 Bromodichloromethane	83	7.804	7.804	(1.136)	392085	500.000	589.9
57 cis-1,3-Dichloropropene	75	8.261	8.261	(1.203)	528648	500.000	611.0
58 4-Methyl-2-Pentanone	43	8.473	8.473	(0.849)	545975	500.000	594.8
60 Toluene	91	8.595	8.595	(0.862)	1488525	500.000	493.8
61 trans-1,3-Dichloropropene	75	8.832	8.832	(0.885)	578506	500.000	571.6
64 1,1,2-Trichloroethane	97	9.021	9.021	(0.904)	337205	500.000	535.1
65 Tetrachloroethene	164	9.143	9.143	(0.916)	250091	500.000	483.4
67 Dibromochloromethane	129	9.416	9.416	(0.944)	326055	500.000	577.8
63 1,3-Dichloropropane	76	9.173	9.173	(0.920)	651695	500.000	549.9
66 2-Hexanone	43	9.289	9.289	(0.931)	398644	500.000	645.4
68 1,2-Dibromoethane	107	9.502	9.502	(0.952)	354797	500.000	569.8
70 Chlorobenzene	112	10.007	10.007	(1.003)	974066	500.000	506.3
72 Ethylbenzene	106	10.116	10.116	(1.014)	539176	500.000	520.0
71 1,1,1,2-Tetrachloroethane	131	10.092	10.092	(1.012)	320711	500.000	537.1
73 m + p-Xylene	106	10.232	10.232	(1.026)	1233624	1000.00	1037
74 Xylene-o	106	10.621	10.621	(1.065)	618270	500.000	541.5
76 Styrene	104	10.639	10.639	(1.066)	1071843	500.000	557.1
77 Bromoform	173	10.810	10.810	(1.084)	223415	500.000	621.8
78 Isopropylbenzene	105	10.986	10.986	(1.101)	1508889	500.000	522.2
79 Bromobenzene	156	11.278	11.278	(0.919)	381862	500.000	497.5
83 1,1,2,2-Tetrachloroethane	83	11.278	11.278	(0.919)	501781	500.000	530.0
84 1,2,3-Trichloropropane	110	11.314	11.314	(0.922)	157715	500.000	529.8
81 n-Propylbenzene	120	11.394	11.394	(0.928)	389368	500.000	503.3
82 2-Chlorotoluene	126	11.473	11.473	(0.935)	356543	500.000	499.5
86 1,3,5-Trimethylbenzene	105	11.570	11.570	(0.943)	1044090	500.000	513.5
85 4-Chlorotoluene	126	11.582	11.582	(0.944)	357535	500.000	499.0
87 tert-Butylbenzene	119	11.892	11.892	(0.969)	928481	500.000	503.3
88 1,2,4-Trimethylbenzene	105	11.935	11.935	(0.972)	1011500	500.000	519.3
89 sec-Butylbenzene	105	12.105	12.105	(0.986)	1384852	500.000	491.6
91 1,3-Dichlorobenzene	146	12.209	12.209	(0.995)	669672	500.000	503.9

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Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\1D50802K.D

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Report Date: 02-Aug-2000 21:01

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====		=====	=====
90 4-Isopropyltoluene	119	12 251	12 251	(0.998)	1073287		500.000	503 5
93 1,4-Dichlorobenzene	146	12 300	12 300	(1.002)	691021		500.000	506.0
94 n-Butylbenzene	91	12 659	12 659	(1.031)	920747		500 000	510.3
95 1,2-Dichlorobenzene	146	12 665	12 665	(1.032)	657247		500 000	508.9
96 1,2-Dibromo-3-chloropropane	157	13 431	13.431	(1.094)	89468		500 000	645 9
97 1,2,4-Trichlorobenzene	180	14.265	14 265	(1.162)	276982		500.000	571 0
98 Hexachlorobutadiene	225	14 441	14.441	(1.176)	140103		500 000	448 5
99 Naphthalene	128	14.502	14.502	(1.181)	688231		500.000	659 8
100 1,2,3-Trichlorobenzene	180	14.746	14.746	(1.201)	235110		500.000	585 4
M 29 1,2-Dichloroethene (total)	96				621839		1000.00	1064
M 75 Xylenes (total)	106				1851894		500 000	1622

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Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\1E50803K.D
Report Date: 02-Aug-2000 21:13

Page 1

STL Pittsburgh

VOLATILE REPORT SW-846 Method

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

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

p/1 8/2/10

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6 867	6.867	(1 000)	603853	250.000		
* 69 Chlorobenzene-d5	119	9 988	9 988	(1 000)	150029	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12 281	12 281	(1 000)	214236	250.000		
\$ 39 Dibromofluoromethane	113	6.131	6 131	(0 893)	566586	1000.00	1025	
\$ 43 1,2-Dichloroethane-d4	65	6 490	6 490	(0.945)	725774	1000.00	1003	
\$ 59 Toluene-d8	98	8 528	8.528	(0 854)	2340102	1000.00	907.3	
\$ 80 Bromofluorobenzene	95	11 143	11.143	(1.116)	940882	1000.00	986 9	
1 Dichlorodifluoromethane	85	1.592	1 592	(0 232)	347402	1000 00	777 6	
2 Chloromethane	50	1.738	1 738	(0 253)	662850	1000.00	959 2	
3 Vinyl Chloride	62	1.872	1 872	(0 273)	556401	1000.00	863 9	
4 Bromomethane	94	2.146	2 146	(0 313)	69717	1000.00	799 4	
5 Chloroethane	64	2 298	2 298	(0 335)	95098	1000.00	744 5	
6 Trichlorofluoromethane	101	2 468	2.468	(0 360)	102662	1000.00	225 4	
12 1,1-Dichloroethene	96	3 040	3 040	(0 443)	409087	1000 00	839.9	
13 Acetone	43	3 265	3 265	(0.476)	359363	1000.00	889.6	
15 Carbon Disulfide	76	3 278	3.278	(0 477)	1437563	1000 00	847.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.740	3.740	(0.545)	652334	1000.00	1037
19 trans-1,2-Dichloroethene	96	4.141	4.141	(0.603)	581479	1000.00	1019
20 Methyl tert-butyl ether	73	4.251	4.251	(0.619)	2184256	1000.00	1128
24 1,1-Dichloroethane	63	4.750	4.750	(0.692)	1090091	1000.00	975.0
27 2,2-Dichloropropane	77	5.504	5.504	(0.802)	851118	1000.00	1003
28 cis-1,2-dichloroethene	96	5.522	5.522	(0.804)	712395	1000.00	1051
31 2-Butanone	43	5.632	5.632	(0.820)	590711	1000.00	883.9
30 Bromochloromethane	128	5.814	5.814	(0.847)	351353	1000.00	1109
37 Chloroform	83	5.942	5.942	(0.865)	1060147	1000.00	1053
38 1,1,1-Trichloroethane	97	6.112	6.112	(0.890)	820126	1000.00	984.2
41 Carbon Tetrachloride	117	6.301	6.301	(0.918)	636270	1000.00	972.3
40 1,1-Dichloropropene	75	6.313	6.313	(0.919)	650411	1000.00	979.6
42 Benzene	78	6.538	6.538	(0.952)	2717417	1000.00	1028
45 1,2-Dichloroethane	62	6.575	6.575	(0.957)	955280	1000.00	1048
47 Trichloroethene	130	7.262	7.262	(1.058)	620882	1000.00	1015
49 1,2-Dichloropropane	63	7.493	7.493	(1.091)	745225	1000.00	1061
50 Dibromomethane	93	7.615	7.615	(1.109)	433757	1000.00	1094
53 Bromodichloromethane	83	7.804	7.804	(1.136)	817806	1000.00	1126
57 cis-1,3-Dichloropropene	75	8.266	8.266	(1.204)	1086486	1000.00	1144
58 4-Methyl-2-Pentanone	43	8.497	8.497	(0.851)	1063448	1000.00	1103
60 Toluene	91	8.594	8.594	(0.861)	2860061	1000.00	940.7
61 trans-1,3-Dichloropropene	75	8.832	8.832	(0.884)	1176838	1000.00	1106
64 1,1,2-Trichloroethane	97	9.057	9.057	(0.907)	684924	1000.00	1049
65 Tetrachloroethene	164	9.142	9.142	(0.915)	453391	1000.00	881.5
67 Dibromochloromethane	129	9.434	9.434	(0.945)	678825	1000.00	1135
63 1,3-Dichloropropane	76	9.172	9.172	(0.918)	1293210	1000.00	1052
66 2-Hexanone	43	9.306	9.306	(0.932)	761090	1000.00	1157
68 1,2-Dibromoethane	107	9.501	9.501	(0.951)	709787	1000.00	1089
70 Chlorobenzene	112	10.018	10.018	(1.003)	1964708	1000.00	998.2
72 Ethylbenzene	106	10.115	10.115	(1.013)	1037389	1000.00	981.9
71 1,1,1,2-Tetrachloroethane	131	10.103	10.103	(1.012)	645820	1000.00	1045
73 m + p-Xylene	106	10.243	10.243	(1.026)	2367911	2000.00	1956
74 Xylene-o	106	10.632	10.632	(1.065)	1189067	1000.00	1014
76 Styrene	104	10.645	10.645	(1.066)	2054051	1000.00	1034
77 Bromoform	173	10.821	10.821	(1.083)	454593	1000.00	1180
78 Isopropylbenzene	105	10.991	10.991	(1.100)	2741223	1000.00	940.7
79 Bromobenzene	156	11.283	11.283	(0.919)	718687	1000.00	964.0
83 1,1,2,2-Tetrachloroethane	83	11.283	11.283	(0.919)	900446	1000.00	976.2
84 1,2,3-Trichloropropane	110	11.326	11.326	(0.922)	302202	1000.00	1028
81 n-Propylbenzene	120	11.399	11.399	(0.928)	722501	1000.00	961.9
82 2-Chlorotoluene	126	11.478	11.478	(0.935)	692131	1000.00	991.5
86 1,3,5-Trimethylbenzene	105	11.575	11.575	(0.943)	1891500	1000.00	958.9
85 4-Chlorotoluene	126	11.588	11.588	(0.944)	663760	1000.00	955.7
87 tert-Butylbenzene	119	11.892	11.892	(0.968)	1675429	1000.00	940.4
88 1,2,4-Trimethylbenzene	105	11.940	11.940	(0.972)	1946587	1000.00	1016
89 sec-Butylbenzene	105	12.111	12.111	(0.986)	2470570	1000.00	914.1
91 1,3-Dichlorobenzene	146	12.214	12.214	(0.995)	1310314	1000.00	1005

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
90 4-Isopropyltoluene	119	12.257	12.257	(0.998)	1948505	1000.00	945.4
93 1,4-Dichlorobenzene	146	12.299	12.299	(1.001)	1339466	1000.00	1001
94 n-Butylbenzene	91	12.658	12.658	(1.031)	1607769	1000.00	926.0
95 1,2-Dichlorobenzene	146	12.670	12.670	(1.032)	1212606	1000.00	966.0
96 1,2-Dibromo-3-chloropropane	157	13.431	13.431	(1.094)	174706	1000.00	1217
97 1,2,4-Trichlorobenzene	180	14.264	14.264	(1.161)	561234	1000.00	1139
98 Hexachlorobutadiene	225	14.441	14.441	(1.176)	262011	1000.00	881.2
99 Naphthalene	128	14.502	14.502	(1.181)	1349093	1000.00	1240
100 1,2,3-Trichlorobenzene	180	14.745	14.745	(1.201)	475892	1000.00	1160
M 29 1,2-Dichloroethene (total)	96				1293874	2000.00	2073
M 75 Xylenes (total)	106				3556978	1000.00	3033

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP5

Calibration Date: 08/22/00 Time: 0550

Lab File ID: CC50822

Init. Calib. Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N

Init. Calib. Times: 1338 2147

GC Column: DB 624 ID: 0.20 (mm)

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

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

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Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP5

Calibration Date: 08/22/00 Time: 0550

Lab File ID: CC50822

Init. Calib. Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N

Init. Calib. Times: 1338 2147

GC Column: DB 624 ID: 0.20 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Toluene-d8	4.633	4.241	0.01	8.5	50.0
Bromofluorobenzene	1.705	1.635	0.01	4.1	50.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

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

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

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
154 Xylenes (total)	750.0000	764.5791	1.9	50.0
2 Chloromethane	250.0000	287.5033	15.0	50.0
3 Vinyl Chloride	250.0000	285.8357	14.3	20.0
4 Bromomethane	250.0000	391.5724	56.6	50.0
5 Chloroethane	250.0000	339.9443	36.0	50.0
9 1,1-Dichloroethene	250.0000	281.8723	12.7	20.0
106 Acetone	250.0000	183.5804	26.6	50.0
107 Carbon Disulfide	250.0000	299.8286	19.9	50.0
10 Methylene Chloride	250.0000	249.4527	0.2	50.0
13 trans-1,2-Dichloroethene	250.0000	254.8286	1.9	50.0
15 1,1-Dichloroethane	250.0000	255.0735	2.0	50.0
17 cis-1,2-dichloroethene	250.0000	246.6698	1.3	50.0
108 2-Butanone	250.0000	116.6606	53.3	50.0
18 Chloroform	250.0000	246.8685	1.3	20.0
149 Dibromofluoromethane	250.0000	243.2757	2.7	50.0
20 1,1,1-Trichloroethane	250.0000	266.3119	6.5	50.0
21 Carbon Tetrachloride	250.0000	268.4547	7.4	50.0
150 1,2-Dichloroethane-d4	250.0000	238.0029	4.8	50.0
24 Benzene	250.0000	249.4357	0.2	50.0
23 1,2-Dichloroethane	250.0000	245.9247	1.6	50.0
137 Fluorobenzene	250.0000	250.0000	0.0	50.0
26 Trichloroethene	250.0000	250.1874	0.1	50.0
27 1,2-Dichloropropane	250.0000	233.1499	6.7	20.0
28 Bromodichloromethane	250.0000	227.5214	9.0	50.0
31 cis-1,3-Dichloropropene	250.0000	215.4862	13.8	50.0
110 4-Methyl-2-Pentanone	250.0000	214.6168	14.2	50.0
151 Toluene-d8	250.0000	228.8171	8.5	50.0
33 Toluene	250.0000	236.4366	5.4	20.0
34 trans-1,3-Dichloropropene	250.0000	225.6986	9.7	50.0
36 1,1,2-Trichloroethane	250.0000	230.7988	7.7	50.0
37 Tetrachloroethene	250.0000	245.1491	1.9	50.0
111 2-Hexanone	250.0000	212.8380	14.9	50.0
38 Dibromochloromethane	250.0000	241.0796	3.6	50.0
101 Chlorobenzene-d5	250.0000	250.0000	0.0	50.0
40 Chlorobenzene	250.0000	236.9252	5.2	50.0
41 Ethylbenzene	250.0000	241.7871	3.3	20.0
0 m + p-Xylene	500.0000	493.0130	1.4	50.0
0 Xylene-o	250.0000	249.9756	0.0	50.0
44 Styrene	250.0000	249.8533	0.1	50.0

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

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

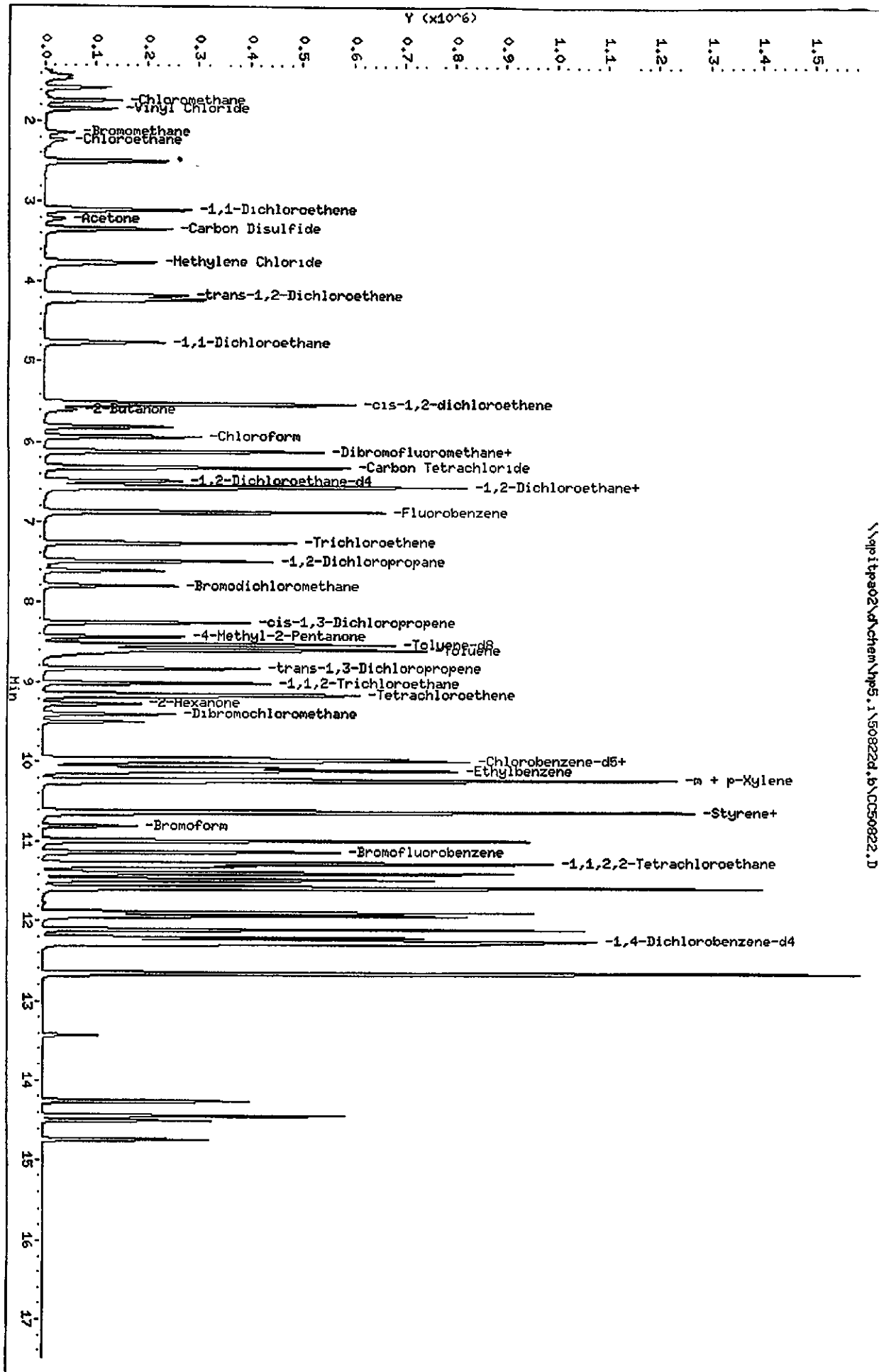
Instrument ID: hp5.i
Lab File ID: CC50822.D
Analysis Type: WATER

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

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

Data File: \\pittpa02\chem\hp5.1\50822d.b\CC50822.D
 Date : 22-AUG-2000 05:50
 Client ID: vstd50
 Sample Info: vstd50 SHL
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp5.1
 Operator: 10099
 Column diameter: 0.20



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Data File: \\gpitpa02\d\chem\hp5.i\50822d.b\CC50822.D
 Report Date: 22-Aug-2000 06:24

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\gpitpa02\d\chem\hp5.i\50822d.b\CC50822.D
 Lab Smp Id: vstd50 Client Smp ID: vstd50
 Inj Date : 22-AUG-2000 05:50 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 10099 Inst ID: hp5.i
 Smp Info : vstd50 5ML
 Misc Info : vstd50,50822d.b,8260bh2o.m,2-br.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50822d.b\8260bh2o.m
 Meth Date : 22-Aug-2000 06:24 gordonk Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-br.sub
 Target Version: 4.04
 Processing Host: PITPC073

KL
8/22/00

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

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.881	6.881	(1.000)	648101	250.000		
* 69 Chlorobenzene-d5	119	9.965	9.965	(1.000)	146944	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.271	12.271	(1.000)	224422	250.000		
\$ 39 Dibromofluoromethane	113	6.126	6.126	(0.890)	150214	250.000	243.3	
\$ 43 1,2-Dichloroethane-d4	65	6.485	6.485	(0.943)	187632	250.000	238.0	
\$ 59 Toluene-d8	98	8.535	8.535	(0.857)	623172	250.000	228.8	
\$ 80 Bromofluorobenzene	95	11.133	11.133	(1.117)	240273	250.000	239.7	
2 Chloromethane	50	1.740	1.740	(0.253)	206643	250.000	287.5	
4 Bromomethane	94	2.142	2.142	(0.311)	37357	250.000	391.6	
3 Vinyl Chloride	62	1.850	1.850	(0.269)	195591	250.000	285.8	
5 Chloroethane	64	2.239	2.239	(0.325)	41937	250.000	339.9	
18 Methylene Chloride	84	3.760	3.760	(0.546)	156485	250.000	249.4	
13 Acetone	43	3.218	3.218	(0.468)	73157	250.000	183.6	
15 Carbon Disulfide	76	3.346	3.346	(0.486)	481542	250.000	299.8	
12 1,1-Dichloroethene	96	3.103	3.103	(0.451)	142024	250.000	281.9	
24 1,1-Dichloroethane	63	4.764	4.764	(0.692)	293224	250.000	255.1	

Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\CC50822.D
Report Date: 22-Aug-2000 06:24

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Compounds	QUANT SIG :				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
*****	----	--	-----	-----	-----	-----	-----
19 trans-1,2-Dichloroethene	96	4.167	4.167	(0.606)	154737	250.000	254.8
28 cis-1,2-dichloroethene	96	5.530	5.530	(0.804)	174387	250.000	246.7
37 Chloroform	83	5.938	5.938	(0.863)	255107	250.000	246.9
45 1,2-Dichloroethane	62	6.570	6.570	(0.955)	224541	250.000	245.9
31 2-Butanone	43	5.591	5.591	(0.813)	108380	250.000	116.7
38 1,1,1-Trichloroethane	97	6.126	6.126	(0.890)	233040	250.000	266.3
41 Carbon Tetrachloride	117	6.315	6.315	(0.918)	186734	250.000	268.4
53 Bromodichloromethane	83	7.805	7.805	(1.134)	172824	250.000	227.5
49 1,2-Dichloropropane	63	7.495	7.495	(1.089)	168792	250.000	233.1
57 cis-1,3-Dichloropropene	75	8.262	8.262	(1.201)	218679	250.000	215.5
47 Trichloroethene	130	7.270	7.270	(1.057)	160688	250.000	250.2
67 Dibromochloromethane	129	9.399	9.399	(0.943)	133288	250.000	241.1
64 1,1,2-Trichloroethane	97	9.010	9.010	(0.904)	139351	250.000	230.8
42 Benzene	78	6.552	6.552	(0.952)	687003	250.000	249.4
61 trans-1,3-Dichloropropene	75	8.827	8.827	(0.886)	226948	250.000	225.7
77 Bromoform	173	10.805	10.805	(1.084)	84230	250.000	241.8
58 4-Methyl-2-Pentanone	43	8.438	8.438	(0.847)	185909	250.000	214.6
66 2-Hexanone	43	9.265	9.265	(0.930)	130026	250.000	212.8
65 Tetrachloroethene	164	9.144	9.144	(0.918)	122809	250.000	245.1
83 1,1,2,2-Tetrachloroethane	83	11.273	11.273	(0.919)	195120	250.000	217.6
60 Toluene	91	8.602	8.602	(0.863)	690830	250.000	236.4
70 Chlorobenzene	112	9.995	9.995	(1.003)	447544	250.000	236.9
72 Ethylbenzene	106	10.111	10.111	(1.015)	251107	250.000	241.8
76 Styrene	104	10.634	10.634	(1.067)	479705	250.000	249.8
M 75 Xylenes (total)	106				868212	250.000	764.6
73 m + p-Xylene	106	10.227	10.227	(1.026)	584354	500.000	493.0
74 Xylene-o	106	10.616	10.616	(1.065)	283857	250.000	250.0

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GC/MS VOLATILE
QC DATA

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

Date : 02-AUG-2000 13:08

Client ID: 50NGBFB

Instrument: hp5.1

Sample Info: bfb 192-188-2 50ng

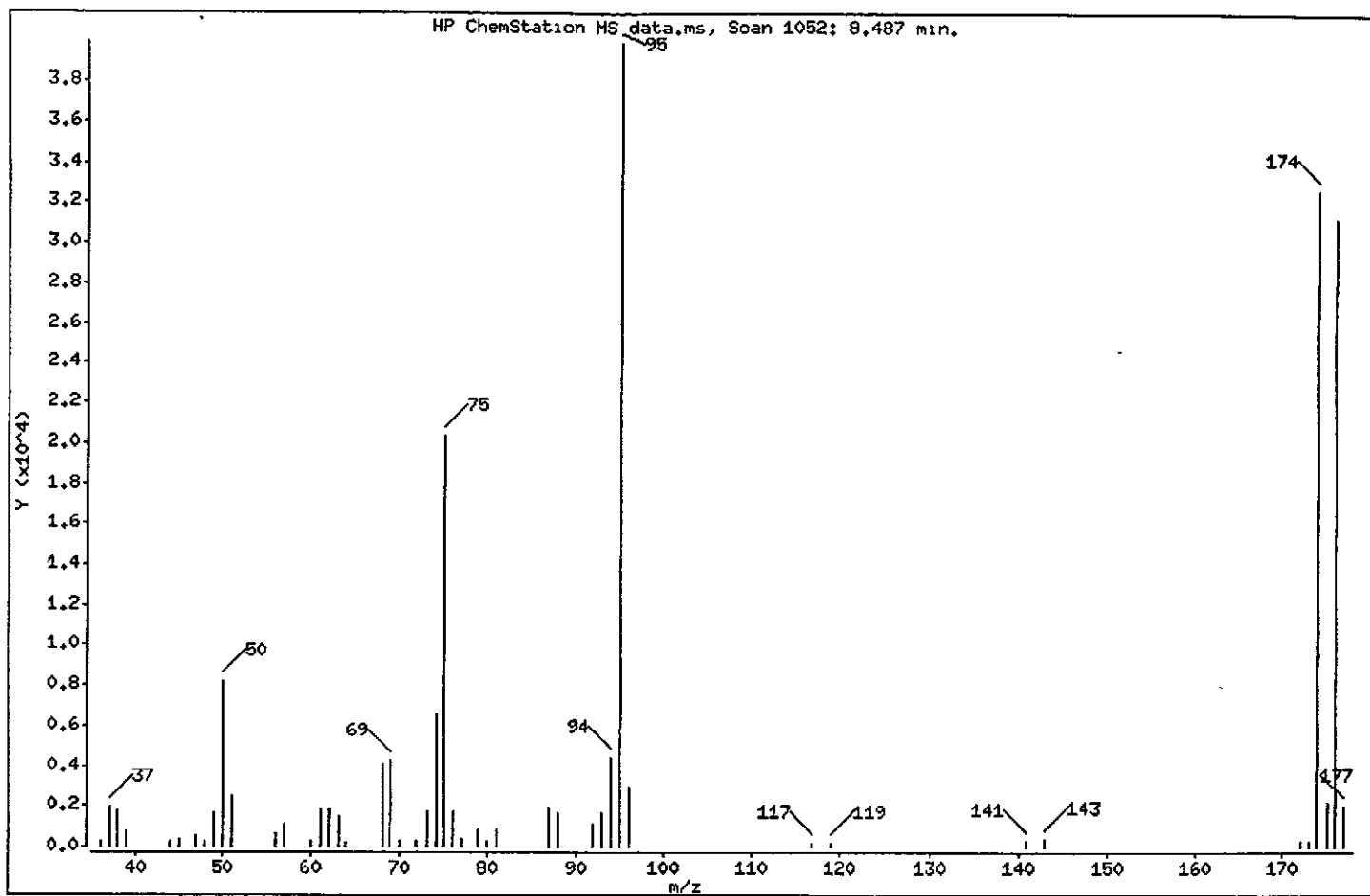
Volume Injected (uL): 2.0

Operator: 034635

Column phase: DB624 20m

Column diameter: 0.20

1 bfb



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

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

Page 3

Date : 02-AUG-2000 13:08

Client ID: 50NCBFB

Instrument: hp5.1

Sample Info: bfb 192-188-2 50ng

Volume Injected (uL): 2.0

Operator: 034635

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF50802K.D

Spectrum: HP ChemStation MS data.ms, Scan 1052: 8.487 min.

Location of Maximum: 95.00

Number of points: 47

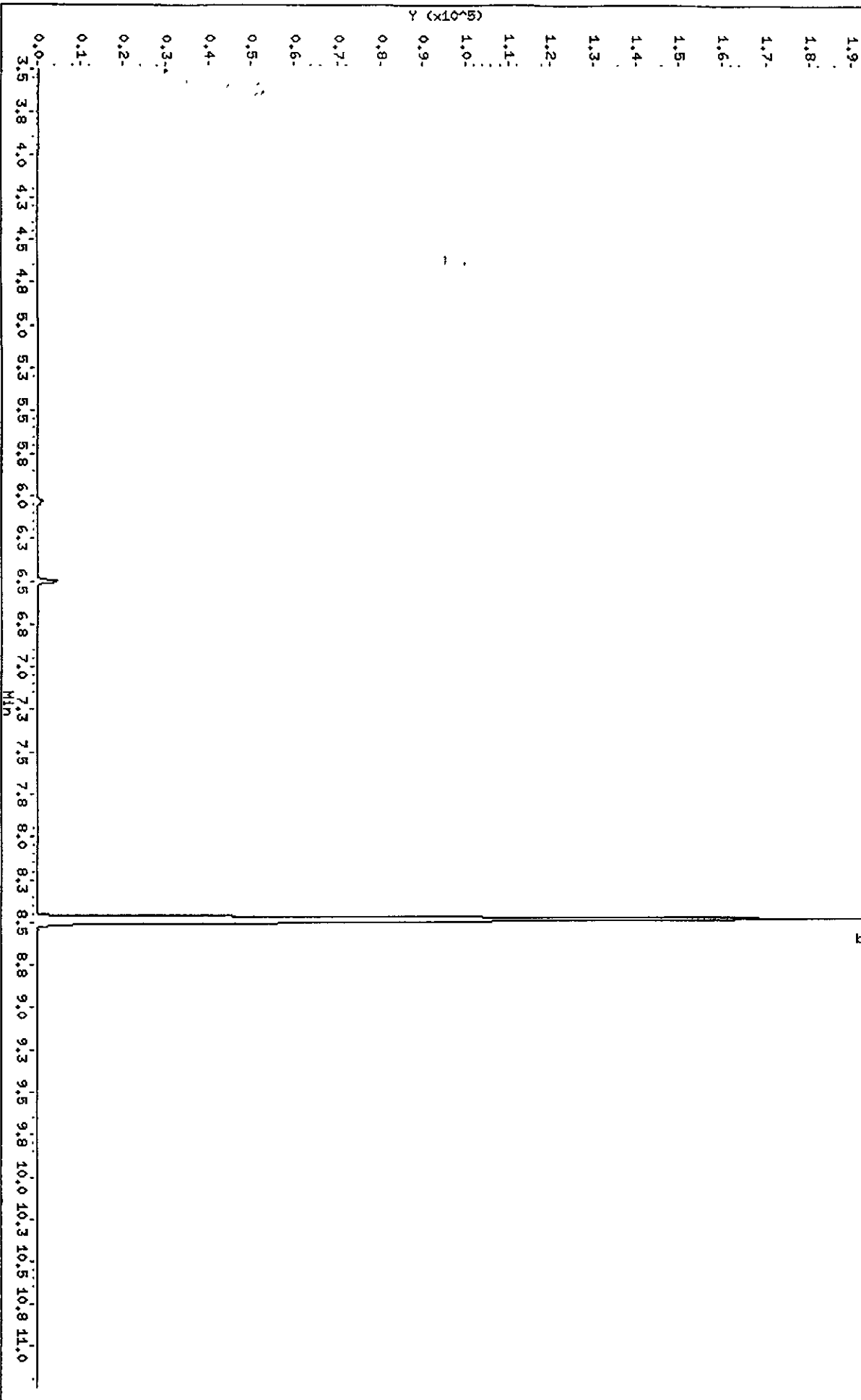
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	288	57.00	1130	75.00	20376	96.00	2922
37.10	1916	60.00	291	76.00	1706	116.90	205
38.10	1731	61.00	1834	77.00	336	118.90	221
39.10	704	62.00	1881	78.90	844	140.90	306
44.10	321	63.10	1469	79.90	300	142.90	379
45.00	358	64.00	225	81.00	872	171.90	244
47.00	573	68.00	4033	87.00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

Data File: \\pp1tpa02\chem\hp5.1\50802d.b\BF50802K.D
 Date: 02-AUG-2000 13:08
 Client ID: B0NGBF
 Sample Info: bfb 192-188-2 50ng
 Volume Injected (uL): 2.0
 Column phase: DB624 20m

Instrument: hp5.1
 Operator: 034635
 Column diameter: 0.20

\\pp1tpa02\chem\hp5.1\50802d.b\BF50802K.D

bfb



669 174

Data File: \\qjptps02\d\chem\hp5.i\50822d.b\BF50822.D

Page 2

Date : 22-AUG-2000 05:25

Client ID: 50NGBFB

Instrument: hp5.i

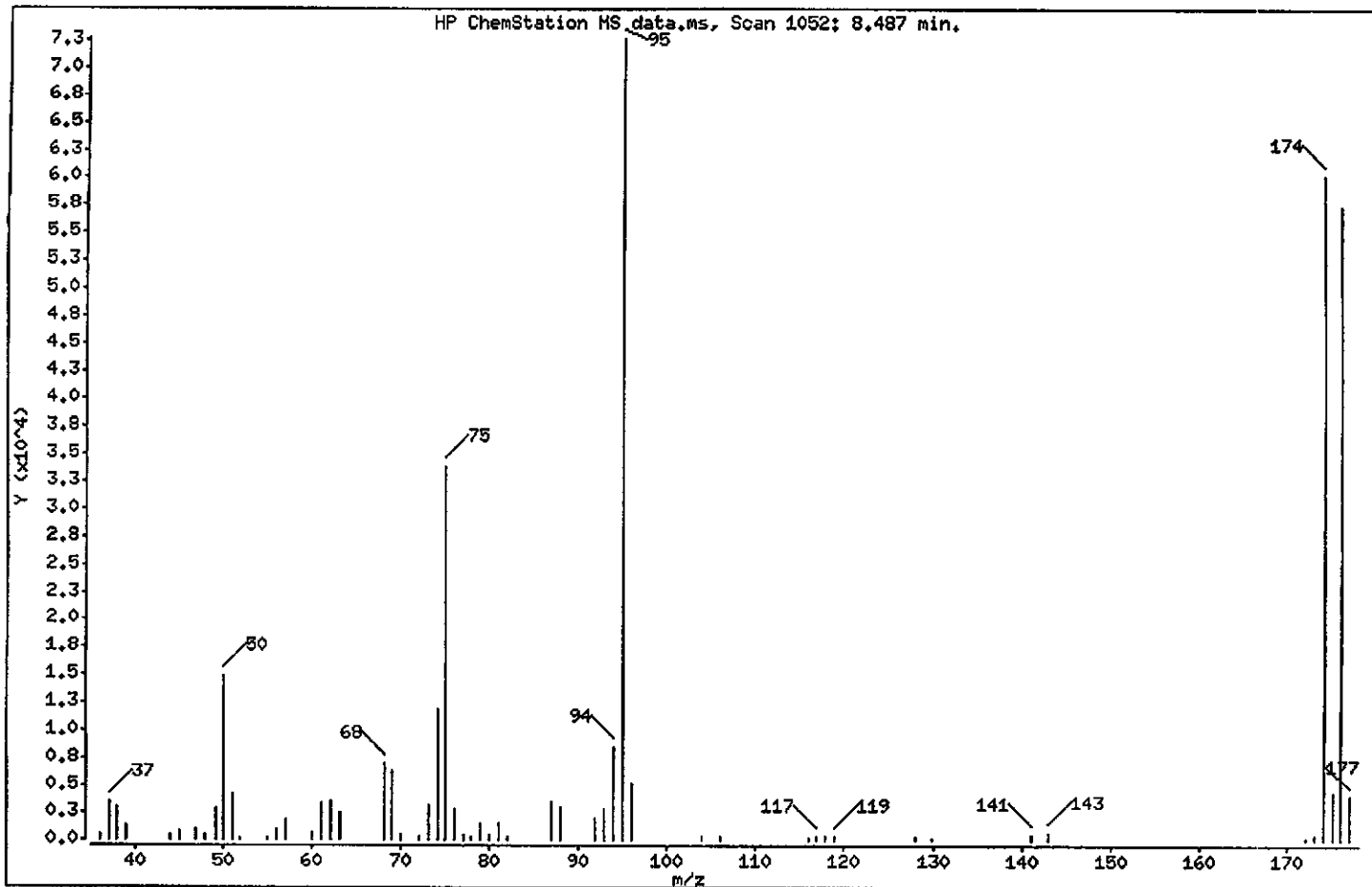
Sample Info: BFB 192-189-5 50NG

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.43
75	30.00 - 60.00% of mass 95	46.44
96	5.00 - 9.00% of mass 95	7.05
173	Less than 2.00% of mass 174	0.65 (0.78)
174	50.00 - 100.00% of mass 95	82.88
175	5.00 - 9.00% of mass 174	6.00 (7.24)
176	95.00 - 101.00% of mass 174	79.09 (95.47)
177	5.00 - 9.00% of mass 176	5.62 (7.11)

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

Page 3

Date : 22-AUG-2000 05:25

Client ID: 50NCBFB

Instrument: hp5.i

Sample Info: BFB 192-189-5 50NC

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF50822.D

Spectrum: HP ChemStation MS data.ms, Scan 1052: 8.487 min.

Location of Maximum: 95.00

Number of points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	563	60.00	632	80.00	433	118.90	295
37.10	3500	61.00	3335	80.90	1585	128.00	270
38.10	3087	62.00	3501	81.90	332	129.90	245
39.10	1342	63.10	2437	87.00	3484	141.00	578
44.00	447	68.00	7022	88.00	2939	142.90	630
45.00	817	69.00	6381	92.00	2051	171.90	245
47.00	931	70.00	493	93.00	2896	173.00	469
48.00	482	72.00	366	94.00	8531	174.00	60176
49.10	2870	73.00	3125	95.00	72632	175.00	4357
50.10	14836	74.00	11860	96.00	5124	176.00	57448
51.10	4258	75.00	33728	103.90	276	177.00	4082
52.00	227	76.00	2928	106.00	290		
55.00	281	77.00	525	115.90	207		
56.00	1063	77.90	376	116.90	418		
57.00	1869	78.90	1529	117.90	293		

Data File: \\QP1TPA02\chem\mp5.i\508224.b\BFS0822.D

Date : 22-AUG-2000 05:25

Client ID: 50NDBFB

Sample Info: BFB 192-189-5 50NC

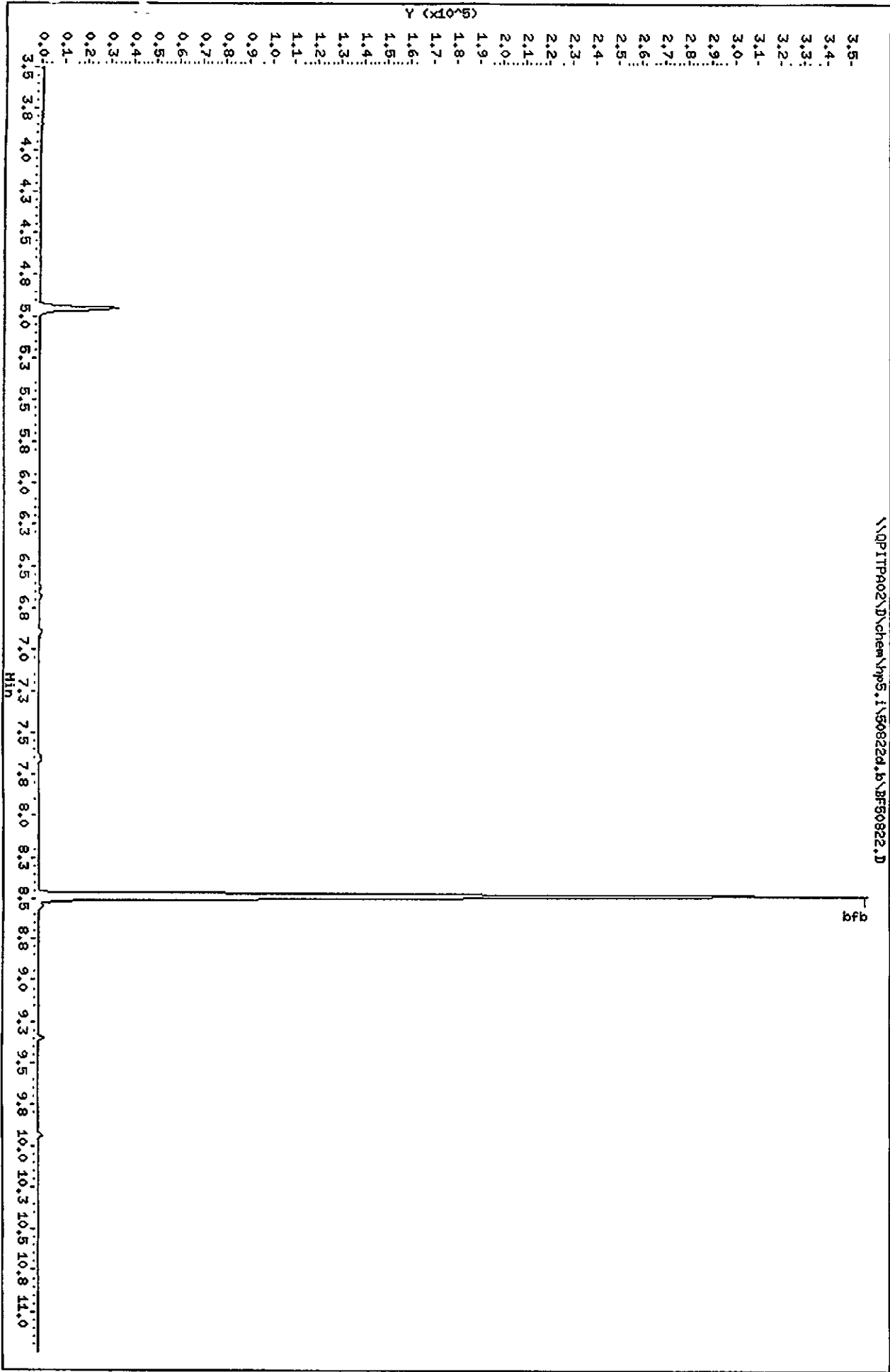
Column phase: DB624 20m

Instrument: mp5.1

Operator: 10099

Column diameter: 0.20

\\QP1TPA02\chem\mp5.i\508224.b\BFS0822.D



669 176

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID: COH220000 106

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/16/00

Work Order: DJ6X8101

Date Extracted: 08/22/00

Dilution factor: 1

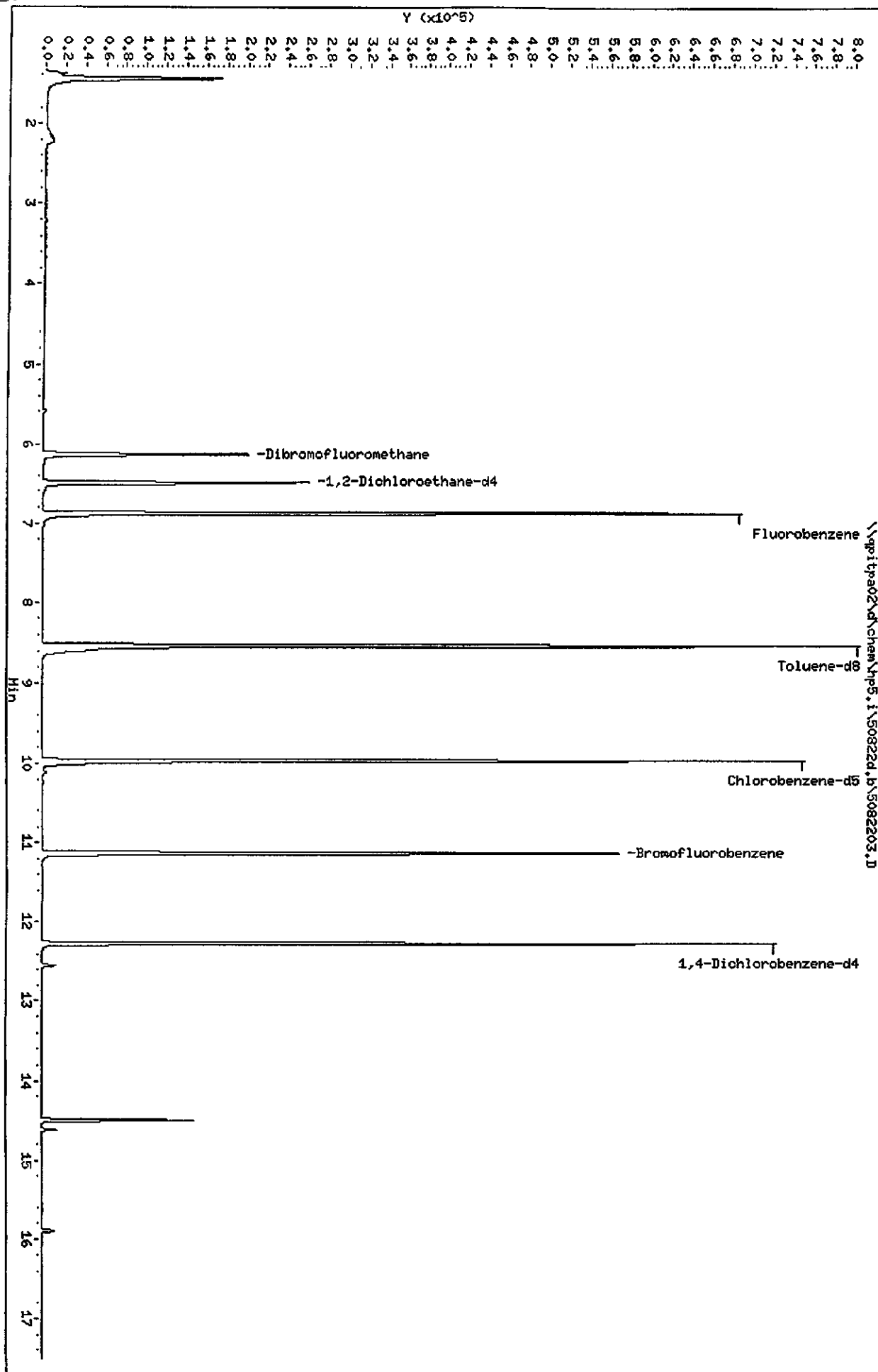
Date Analyzed: 08/22/00

Moisture %: NA

QC Batch: 0235134

Client Sample Id: INTRA-LAB BLANK

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



Data File: \\ppitpa02\chem\hp5.i\50822d.b\5082203.D
Date : 22-AUG-2000 07:41
Client ID:
Sample Info: tolp prep blank 8/21/00 (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

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

Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\5082203.D
 Report Date: 22-Aug-2000 08:17

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50822d.b\5082203.D

Lab Smp Id:

Inj Date : 22-AUG-2000 07:41

MS Autotune Date: 13-MAR-2000 09:53

Operator : 10099

Inst ID: hp5.i

Smp Info : tclp prep blank 8/21/00 (1ml/10ml)/5ml

Misc Info : ,50822d.b,8260bh2o.m,2-br.sub

Comment :

Method : \\qpitpa02\d\chem\hp5.i\50822d.b\8260bh2o.m

Meth Date : 22-Aug-2000 06:24 gordonk

Quant Type: ISTD

Cal Date : 02-AUG-2000 21:20

Cal File: 2A50802K.D

Als bottle: 6

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: tclp.sub

Target Version: 4.04

Processing Host: PITPC073

KLG
8/22/00

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

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng)	(UG/L)
* 46 Fluorobenzene	96	6.879	6.881	(1.000)	617428	250.000		
* 69 Chlorobenzene-d5	119	9.963	9.965	(1.000)	143051	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.275	12.271	(1.000)	190736	250.000		
\$ 39 Dibromofluoromethane	113	6.137	6.126	(0.892)	132267	224.851	44.97	
\$ 43 1,2-Dichloroethane-d4	65	6.495	6.485	(0.944)	173744	231.334	46.27	
\$ 59 Toluene-d8	98	8.533	8.535	(0.857)	600791	226.603	45.32	
\$ 80 Bromofluorobenzene	95	11.125	11.133	(1.117)	228734	234.388	46.88	
3 Vinyl Chloride	62				Compound Not Detected.			
12 1,1-Dichloroethene	96				Compound Not Detected.			
31 2-Butanone	43				Compound Not Detected.			
37 Chloroform	83				Compound Not Detected.			
41 Carbon Tetrachloride	117				Compound Not Detected.			
42 Benzene	78				Compound Not Detected.			
45 1,2-Dichloroethane	62				Compound Not Detected.			
47 Trichloroethene	130				Compound Not Detected.			
65 Tetrachloroethene	164				Compound Not Detected.			

669 180

Data File: \\qpitpa02\d\chem\hp5.i\50822d.b\5082203.D
Report Date: 22-Aug-2000 08:17

Page 2

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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH220000 134

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/16/00

Work Order: DJ748101

Date Extracted: 08/22/00

Dilution factor: 1

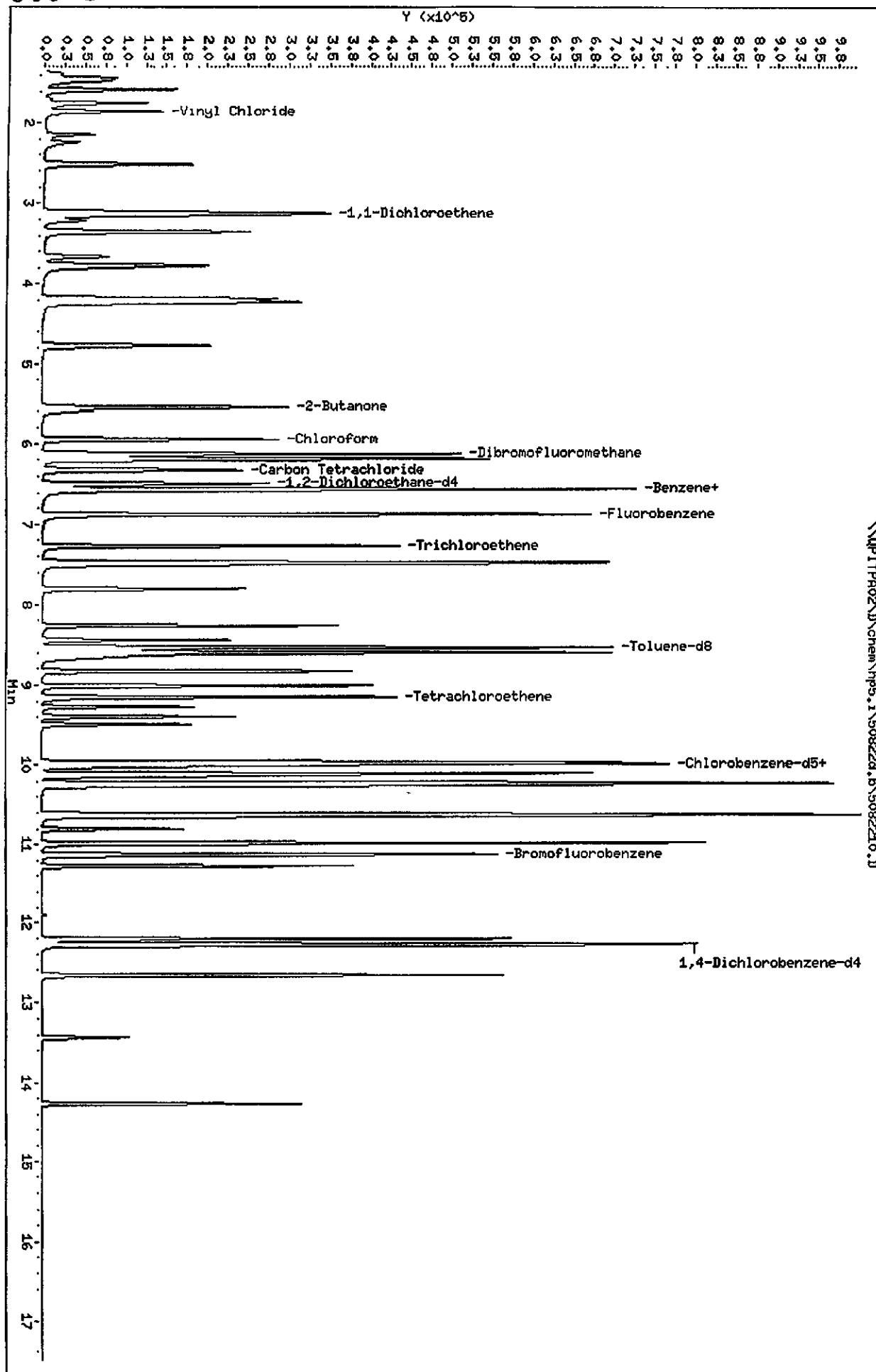
Date Analyzed: 08/22/00

Moisture %: NA

QC Batch: 0235134

Client Sample Id: CHECK SAMPLE

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



Data File: \\NPITPA02\B\chem\hp5.i\50822d.b\5082210.D
Date : 22-AUG-2000 10:31
Client ID:
Sample Info: blank ms (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.1
Operator: 10099
Column diameter: 0.20

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

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STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50822d.b\5082210.D

Lab Smp Id:

Inj Date : 22-AUG-2000 10:31

MS Autotune Date: 13-MAR-2000 09:53

Operator : 10099

Inst ID: hp5.i

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

Misc Info : ,50822d.b,8260bh2o.m,tclp.sub

Comment :

Method : \\QPITPA02\D\chem\hp5.i\50822d.b\8260bh2o.m

Meth Date : 22-Aug-2000 06:24 gordonk

Quant Type: ISTD

Cal Date : 02-AUG-2000 21:20

Cal File: 2A50802K.D

Als bottle: 13

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: tclp.sub

Target Version: 4.04

Processing Host: PITPC076

KLG
8/22/00

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

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

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

669 184

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

Page 2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
70 Chlorobenzene	112	9.993	9.995	(1.002)	392461	209.229	41.84

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/16/00

Work Order: DHX4011E

Date Extracted: 08/22/00

Dilution factor: 1

Date Analyzed: 08/22/00

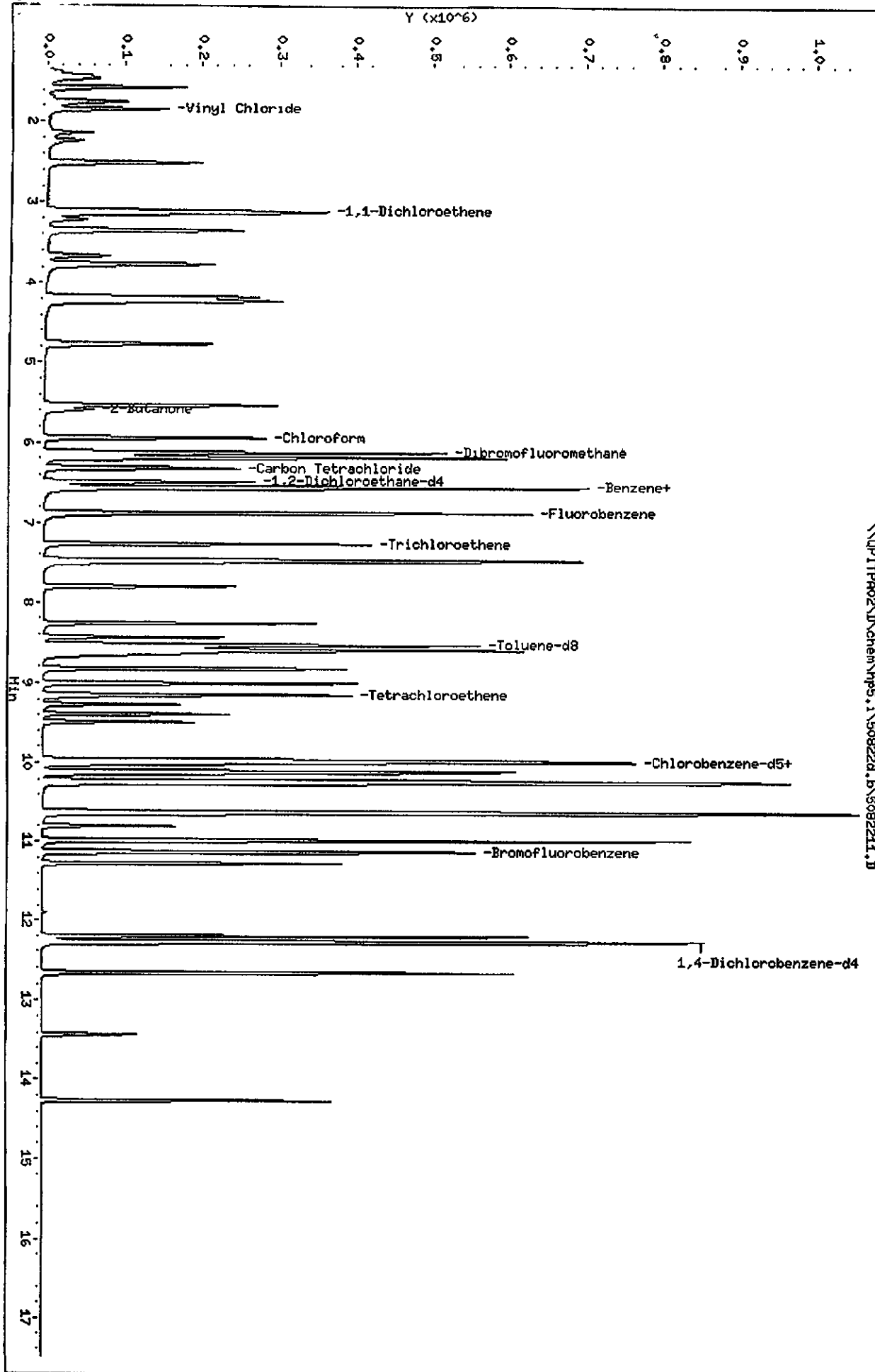
Moisture %: 20

QC Batch: 0235134

Client Sample Id: DF/S1/0228/SDC/026

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.440	
78-93-3	2-Butanone	0.212	
56-23-5	Carbon tetrachloride	0.512	
108-90-7	Chlorobenzene	0.423	
67-66-3	Chloroform	0.471	
107-06-2	1,2-Dichloroethane	0.448	
75-35-4	1,1-Dichloroethene	0.572	
127-18-4	Tetrachloroethene	0.440	
79-01-6	Trichloroethene	0.453	
75-01-4	Vinyl chloride	0.643	



Data File: \\QPIITPA02\chem\mp5.i\508224.b\5082211.D
Date: 22-AUG-2000 10:56
Client ID:
Sample Info: coh160154-001ms (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: mp5.i
Operator: 10039
Column diameter: 0.20

Data File: \\QPITPA02\D\chem\hp5.i\50822d.b\5082211.D
Report Date: 22-Aug-2000 11:15

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STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50822d.b\5082211.D

Lab Smp Id:

Inj Date : 22-AUG-2000 10:56

MS Autotune Date: 13-MAR-2000 09:53

Operator : 10099

Inst ID: hp5.i

Smp Info : c0h160154-001ms (1ml/10ml)/5ml

Misc Info : ,50822d.b,8260bh2o.m,tclp.sub

Comment :

Method : \\QPITPA02\D\chem\hp5.i\50822d.b\8260bh2o.m

Meth Date : 22-Aug-2000 06:24 gordonk

Quant Type: ISTD

Cal Date : 02-AUG-2000 21:20

Cal File: 2A50802K.D

Als bottle: 14

Dil Factor: 1.00000

Integrator: HP RTE

Target Version: 4.04

Processing Host: PITPC076

Compound Sublist: tclp.sub

KUG
8/22/00

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.886	6.881 (1.000)	621139	250.000		
* 69 Chlorobenzene-d5	119	9.971	9.965 (1.000)	147990	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.276	12.271 (1.000)	211673	250.000		
\$ 39 Dibromofluoromethane	113	6.132	6.126 (0.890)	144995	245.017	49.00	
\$ 43 1,2-Dichloroethane-d4	65	6.497	6.485 (0.943)	183056	242.277	48.46	
\$ 59 Toluene-d8	98	8.535	8.535 (0.856)	621489	226.586	45.32	
\$ 80 Bromofluorobenzene	95	11.133	11.133 (1.117)	234519	232.294	46.46	
3 Vinyl Chloride	62	1.849	1.850 (0.269)	210947	321.659	64.33	
12 1,1-Dichloroethene	96	3.115	3.103 (0.452)	138000	285.774	57.15	
31 2-Butanone	43	5.597	5.591 (0.813)	94242	105.846	21.17	
37 Chloroform	83	5.949	5.938 (0.864)	233182	235.446	47.09	
41 Carbon Tetrachloride	117	6.327	6.315 (0.919)	170537	255.812	51.16	
42 Benzene	78	6.564	6.552 (0.953)	580921	220.075	44.02	
45 1,2-Dichloroethane	62	6.582	6.570 (0.956)	196145	224.150	44.83	
47 Trichloroethene	130	7.276	7.270 (1.057)	139342	226.370	45.27	
65 Tetrachloroethene	164	9.149	9.144 (0.918)	110990	219.991	44.00	

669 188

Data File: \\QPITPA02\D\chem\hp5.i\50822d.b\5082211.D
Report Date: 22-Aug-2000 11:15

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
*****	***	**	*****	*****	*****	*****	*****
70 Chlorobenzene	112	9.995	9.995	(1.002)	401979	211.299	42.26

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 08/16/00

Work Order: DHX4011F

Date Extracted: 08/22/00

Dilution factor: 1

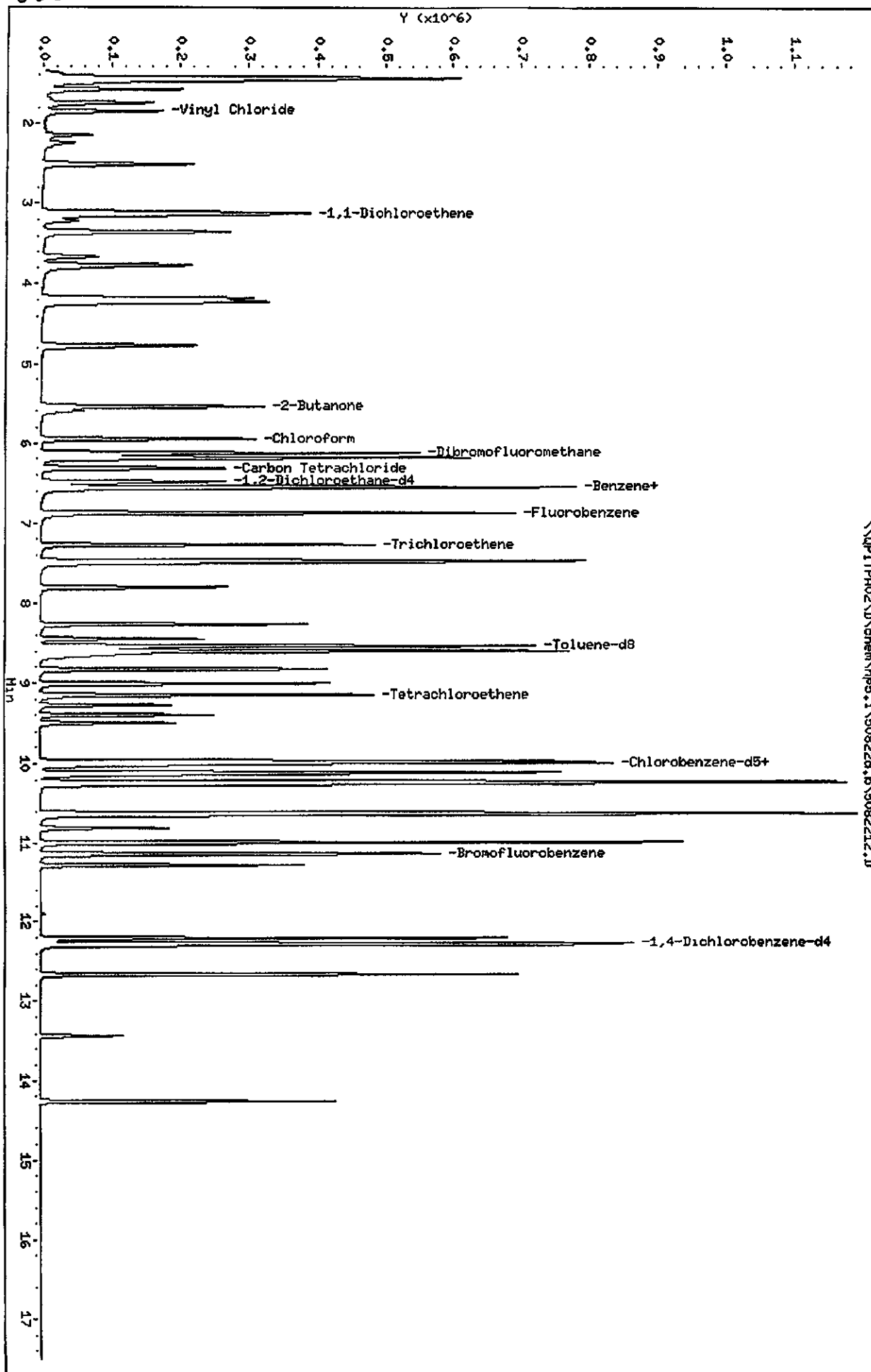
Date Analyzed: 08/22/00

Moisture %: 20

QC Batch: 0235134

Client Sample Id: DF/S1/0228/SDC/026

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.473	
78-93-3	2-Butanone	0.206	
56-23-5	Carbon tetrachloride	0.526	
108-90-7	Chlorobenzene	0.446	
67-66-3	Chloroform	0.488	
107-06-2	1,2-Dichloroethane	0.463	
75-35-4	1,1-Dichloroethene	0.594	
127-18-4	Tetrachloroethene	0.465	
79-01-6	Trichloroethene	0.477	
75-01-4	Vinyl chloride	0.663	



Data File: \\PITPA02\chem\hp5.1\508224.b\5082212.D
Date : 22-AUG-2000 11:20
Client ID:
Sample Info: c0h160154-001msd (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.1
Operator: 10099
Column diameter: 0.20

Data File: \\QPITPA02\D\chem\hp5.i\50822d.b\5082212.D
Report Date: 22-Aug-2000 11:39

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50822d.b\5082212.D

Lab Smp Id:

Inj Date : 22-AUG-2000 11:20

MS Autotune Date: 13-MAR-2000 09:53

Operator : 10099

Inst ID: hp5.i

Smp Info : c0h160154-001msd (1ml/10ml)/5ml

Misc Info : ,50822d.b,8260bh2o.m,tclp.sub

Comment :

Method : \\QPITPA02\D\chem\hp5.i\50822d.b\8260bh2o.m

Meth Date : 22-Aug-2000 06:24 gordonk

Quant Type: ISTD

Cal Date : 02-AUG-2000 21:20

Cal File: 2A50802K.D

Als bottle: 15

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: tclp.sub

Target Version: 4.04

Processing Host: PITPC076

46
8/22/00

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

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

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ng)	FINAL (UG/L)
*****	----	--	-----	-----	-----	-----	-----
* 46 Fluorobenzene	96	6.878	6.881	(1.000)	643923	250.000	
* 69 Chlorobenzene-d5	119	9.969	9.965	(1.000)	148659	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.274	12.271	(1.000)	216950	250.000	
\$ 39 Dibromofluoromethane	113	6.130	6.126	(0.891)	148058	241.339	48.27
\$ 43 1,2-Dichloroethane-d4	65	6.495	6.485	(0.944)	183894	234.774	46.95
\$ 59 Toluene-d8	98	8.533	8.535	(0.856)	618222	224.382	44.88
\$ 80 Bromofluorobenzene	95	11.130	11.133	(1.117)	236712	233.413	46.68
3 Vinyl Chloride	62	1.847	1.850	(0.269)	225252	331.318	66.26
12 1,1-Dichloroethene	96	3.112	3.103	(0.453)	148569	296.774	59.35
31 2-Butanone	43	5.588	5.591	(0.813)	94977	102.897	20.58
37 Chloroform	83	5.947	5.938	(0.865)	250641	244.121	48.82
41 Carbon Tetrachloride	117	6.325	6.315	(0.920)	181931	263.248	52.65
42 Benzene	78	6.556	6.552	(0.953)	647433	236.594	47.32
45 1,2-Dichloroethane	62	6.580	6.570	(0.957)	210015	231.508	46.30
47 Trichloroethene	130	7.274	7.270	(1.057)	152137	238.411	47.68
65 Tetrachloroethene	164	9.147	9.144	(0.918)	117866	232.569	46.51

669 192

Data File: \\QPITPA02\D\chem\hp5.i\50822d.b\5082212.D

Page 2

Report Date: 22-Aug-2000 11:39

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(UG/L)
=====	====	==	=====	=====	=====	=====	=====
70 Chlorobenzene	112	9.993	9.995	(1.002)	426143	222.994	44.60

**GC/MS VOLATILE
MISCELLANEOUS**

GL S Volatile
Run Log

Method: 1.2.34

Inst. ID HP5



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

Analyst KG & RJ

Reviewed by:

Date:

Std: P2-188-2 BFB Std: 192-187-1114

Std: P2-187-2 SUR

Std: P2-187-8VCA

Std:

Std:

Std:

Std:

Std:

Std:

Date	File ID	Lot No./Sample No.	Vol./Wt.	pH	Port#	Comments
8/2/00	1. BFB	BFB	500g			0820 624
	2. Q150802	QC Check 22ppb	5ml			624
	3. 1A50802	VSid5 Bonus	5ml			
	4. 1B50802	VSid20 Bonus	5ml			624
	5. 1C50802	VSid100 Bonus	5ml			
	6. 1D50802	VSid200 Bonus	5ml			
	7. 1E50802 K	BFB	500g			8260B
	8. 1C50802 K	VSid50	5ml			8260B
	9. 1A50802 K	VSid5	5ml			
	10. 1B50802 K	VSid20	5ml			
	11. 1D50802 K	VSid100	5ml			
	12. 1E50802 K	VSid200	5ml			
	13. 2A50802 K	VSid5	5ml			
	14. 2B50802 K	VSid20	5ml			
	15. 3A50802 K	VSid5	5ml			
	16.					
	17.					
	18.					
	19.					
	20.					
	21.					
	22.					

GC S Volatile Run Log

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



Method: 8260B Inst. ID: 4PS

Analyst: KLG Date: _____
 Std: 92-89-5B-FB Std: 92-188-1104 Std: 92-188-1104
 Std: 92-186-6 Ketones Std: 92-187-4MS Std: _____

Reviewed by: _____

Date	File ID	Lot No. / Sample No.	Vol. / Wt.	pH	Port#	Comments
~~8/22/09~~	~~1. BF50822~~	~~BFB~~	~~50ng~~			~~0525~~
	2. 050822	V8150	5ml			
	3. 050822	V81K	5ml			
	4. 5082201	Blank MS	5ml			
	5. 5082202	COH170241-007	2ml/5ml	1		need 4x total
	6. 5082203	Top Prep Blank 8/21/09	(1ml/10ml)/5ml	5		
	7. 5082204	COH170241-007	(2ml/8ml)/5ml	1		too dilute
	8. 5082205	Blank MS	(1ml/10ml)/5ml	5		fauls
	9. 5082206	COH170113-001	(1ml/10ml)/5ml	5		
	10. 5082207	COH160154-001	(1ml/10ml)/5ml	5		
	11. 5082208	COH160154-002	(1ml/10ml)/5ml	5		
	12. 5082209	COH160154-003	(1ml/10ml)/5ml	5		
	13. 5082210	Blank MS	(1ml/10ml)/5ml	5		
	14. 5082211	COH160154-001 MS	(1ml/10ml)/5ml	5		
	15. 5082212	COH160154-001 MS	(1ml/10ml)/5ml	5		
	16					
	17					
	18					
	19					
	20					
	21					
	22.					

669 195

ZHE Leachate Worksheet (Method 1311)

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



P023501

Lab Sample ID #	Client ID	Weight (gm)	Vessel	Extraction Fluid No. / Volume	pH	On		Off		Initials	
						Date	Time	Date	Time		
COH160154	BIK	—	SS	TELP#1	4.93	8/21/2000	09:50	8/22/2000	06:25	WT	
↓	001	25.0g	XX	↓	5.31	↓	↓	↓	↓	↓	
↓	002	↓	22	↓	5.26	↓	↓	↓	↓	↓	
↓	003	↓	G	↓	5.17	↓	↓	↓	↓	↓	
COH170113	001	↓	AA	↓	5.87	↓	↓	↓	↓	↓	
WT 8/21/2000											
All Above											
Autobox											
Extract(s) Received Record line number from above) Extract(s) Relinquished											
Date		Time		Date		Time		Date		Time	
8/22/2000		07:15		8/22/2000		07:20		8/22/2000		07:20	
8/22/00		0720		8/22/00		1200		8/22/00		1200	
Analyst		Analyst		Analyst		Analyst		Analyst		Analyst	
B. Bryant		B. Bryant		B. Bryant		B. Bryant		B. Bryant		B. Bryant	
Kathy/Gordon		Kathy/Gordon		Kathy/Gordon		Kathy/Gordon		Kathy/Gordon		Kathy/Gordon	
Location		Location		Location		Location		Location		Location	
Org Prep		Org Prep		Org Prep		Org Prep		Org Prep		Org Prep	
CUP61		CUP61		CUP61		CUP61		CUP61		CUP61	
CLP-01		CLP-01		CLP-01		CLP-01		CLP-01		CLP-01	
NY01		NY01		NY01		NY01		NY01		NY01	
Room Temp: 19 Tumbler RPMs: 30 PH Calibration Date 8/21/2000 Date 8/22/2000 (30±2) (10) 7.02 10.04 7.02 10.05											
Sample determined to have free-liquid, % solid determination was performed Extraction Fluid No. 1 5.7 mL Glacial Acetic Acid dil 500mL + 64.3 mL of 1 N Na 1 dil to 1 L (pH 4.93+ 0.05)											
Reviewed by: Ken Duly Date: 8-22-00 Comments											

PSR024 8/21/00 4:53:10 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: TROUTB

METHOD: QK Volatile Organics, GC/MS (82608)

<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>
1A,B CLP1	DHX40-1-02	___	260549	399411	A-58-QK	COH160154	001		SOLID	0	3
1A,B CLP1	DHX47-1-02	___	260550	399411	A-58-QK	COH160154	002		SOLID	0	3
1A,B CLP1	DHX4A-1-02	___	260551	399411	A-58-QK	COH160154	003		SOLID	0	3

COH170113-001

RELINQUISHED BY

Ken Trout
B Trout

RECEIVED BY

B Trout
Ken Trout

DATE/TIME

8/21/2000 07:20
8/21/2000 09:40

GC/MS SEMIVOLATILE DATA

**GC/MS SEMIVOLATILE
QC SUMMARY**

669 200

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0H160154

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/S1/0228/SDC/028	62	61	98	54	60	75	00
02	DF/S1/0228/SDC/026	59	53	92	52	61	67	00
03	DF/S1/0228/SDC/027	51	46	100	43	53	62	00
04	METHOD BLK. DJ700101	66	64	100	57	70	60	00
05	LCS DJ700102	76	75	100	69	77	68	00
06	DF/S1/0228/SDC/026 D	43	43	86	36	43	63	00
07	DF/S1/0228/SDC/026 S	46	46	94	39	47	69	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 #: COH220000

WO #: DJ700102

BATCH: 0235112

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

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

669 202

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: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: C0H160154

WO #: DHX4011C

BATCH: 0235112

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

NOTES(S) :

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

RPD: 0 out of 0 outside limitsSpike 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: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: COH160154

WO #: DHX4011D

BATCH: 0235112

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

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

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

COMMENTS:

669 204 SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DJ700101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: S0823002.

Lot Number: C0H160154

Date Analyzed: 08/23/00

Time Analyzed: 23:32

Matrix: SOLID

Date Extracted: 08/21/00

GC Column: DB5MS ID: .25

Extraction Method: 1311/3520C

Instrument ID: 71

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DF/S1/0228/SDC/028	DHX4A103	S0824004.	08/24/00	20:38
02	DF/S1/0228/SDC/026	DHX40103	S0825021.	08/25/00	19:58
03	DF/S1/0228/SDC/026	DHX4011C S	S0824001.	08/24/00	18:56
04	DF/S1/0228/SDC/026	DHX4011D D	S0824002.	08/24/00	19:30
05	DF/S1/0228/SDC/027	DHX47103	S0825001.	08/25/00	20:32
06	CHECK SAMPLE	DJ700102 C	S0823001.	08/23/00	22:58
07					
08					
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14					
15					
16					
17					
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30					

COMMENTS:

FORM IV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

669 205

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.:

COH/60154

Lab File ID: S0823DFT

DFTPP Injection Date: 08/23/00

Instrument ID: 71

DFTPP Injection Time: 1917

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

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	S0823CC2	08/23/00	1935
02	SSTD20	SSTD20	S0823CC1	08/23/00	2009
03	SSTD80	SSTD80	S0823CC3	08/23/00	2043
04	SSTD120	SSTD120	S0823CC4	08/23/00	2116
05	SSTD160	SSTD160	S0823CC5	08/23/00	2150
06					
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22					

669 206

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: SDG No.: COH160154

Lab File ID: S0823DFT

DFTPP Injection Date: 08/23/00

Instrument ID: 71

DFTPP Injection Time: 1917

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

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	S0823CC2	08/23/00	1935
02	INTRA-LAB CH	DJ700102	S0823001	08/23/00	2258
03	INTRA-LAB BL	DJ700101	S0823002	08/23/00	2332
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

669 207

COH/6054

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.:

Lab File ID: S0824DF1

DFTPP Injection Date: 08/24/00

Instrument ID: 71

DFTPP Injection Time: 1515

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

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	S0824CCC	08/24/00	1530
02	SSTD20	SSTD20	S0824C01	08/24/00	1604
03	SSTD80	SSTD80	S0824C03	08/24/00	1638
04	SSTD120	SSTD120	S0824C04	08/24/00	1712
05	SSTD160	SSTD160	S0824C05	08/24/00	1746
06					
07					
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22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: C0H160154

Lab File ID: S0824DF1

DFTPP Injection Date: 08/24/00

Instrument ID: 71

DFTPP Injection Time: 1515

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

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	S0824CCC	08/24/00	1530
02	DF/S1/0228/S	DHX4011C	S0824001	08/24/00	1856
03	DF/S1/0228/S	DHX4011D	S0824002	08/24/00	1930
04	DF/S1/0228/S	DHX4A103	S0824004	08/24/00	2038
05					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

669 209

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: COH/60154

Lab File ID: S0825DF2

DFTPP Injection Date: 08/25/00

Instrument ID: 71

DFTPP Injection Time: 1459

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	36.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.7
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	6.9
275	10.0 - 30.0% of mass 198	23.9
365	Greater than 1.0% of mass 198	2.83
441	Present, but less than mass 443	12.8
442	Greater than 40.0% of mass 198	78.4
443	17.0 - 23.0% of mass 442	14.4 (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	SSTD50	SSTD50	S0825CC1	08/25/00	1515
02	SSTD20	SSTD20	S0825C02	08/25/00	1549
03	SSTD80	SSTD80	S0825C03	08/25/00	1623
04	SSTD120	SSTD120	S0825C04	08/25/00	1710
05	SSTD160	SSTD160	S0825C05	08/25/00	1851
06					
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669 210

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: C0H160154

Lab File ID: S0825DF2

DFTPP Injection Date: 08/25/00

Instrument ID: 71

DFTPP Injection Time: 1459

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	36.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.7
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	6.9
275	10.0 - 30.0% of mass 198	23.9
365	Greater than 1.0% of mass 198	2.83
441	Present, but less than mass 443	12.8
442	Greater than 40.0% of mass 198	78.4
443	17.0 - 23.0% of mass 442	14.4 (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	SSTD50	SSTD50	S0825CC1	08/25/00	1515
02	DF/S1/0228/S	DHX40103	S0825021	08/25/00	1958
03	DF/S1/0228/S	DHX47103	S0825001	08/25/00	2032
04					
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FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

669 211

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: SDG No.: COH160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/23/00

Lab File ID (Standard): S0823CC2

Time Analyzed: 1935

Instrument ID: 71

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

	IS1 (DCB)	RT #	IS2 (NPT)	RT #	IS3 (ANT)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	147014	5.23	543040	6.80	257929	9.90
UPPER LIMIT	294028	5.73	1086080	7.30	515858	10.40
LOWER LIMIT	73507	4.73	271520	6.30	128965	9.40
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB CH	96216	5.24	397562	6.82	191210	9.93
02 INTRA-LAB BL	89960	5.25	380795	6.82	180111	9.93
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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 values outside QC limits with an asterisk.
* Values outside of QC limits

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: SDG No.: C0H160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/23/00

Lab File ID (Standard): S0823CC2

Time Analyzed: 1935

Instrument ID: 71

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

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

* Values outside of QC limits

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

669 213

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: C0H160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/24/00

Lab File ID (Standard): S0824CCC

Time Analyzed: 1530

Instrument ID: 71

GC Column: HP5-MS

ID:0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	197135	5.15	716872	6.71	383278	9.80
UPPER LIMIT	394270	5.65	1433744	7.21	766556	10.30
LOWER LIMIT	98568	4.65	358436	6.21	191639	9.30
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0228/S	272262	5.16	1042891	6.72	574676	9.79
02 DF/S1/0228/S	277724	5.16	1038182	6.72	560013	9.79
03 DF/S1/0228/S	249421	5.15	925495	6.71	497519	9.79
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

* Values outside of QC limits

669 214

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: C0H160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/24/00

Lab File ID (Standard): S0824CCC

Time Analyzed: 1530

Instrument ID: 71

GC Column: HP5-MS

ID:0.25 (mm)

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	652627	13.12	712357	19.78	607120	23.15
UPPER LIMIT	1305254	13.62	1424714	20.28	1214240	23.65
LOWER LIMIT	326314	12.62	356179	19.28	303560	22.65
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0228/S	987016	13.12	955159	19.77	853987	23.14
02 DF/S1/0228/S	933098	13.13	904924	19.77	861563	23.15
03 DF/S1/0228/S	852952	13.11	834462	19.77	791413	23.14
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22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

* Values outside of QC limits

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

669 215

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: SDG No.: C0H160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/25/00

Lab File ID (Standard): S0825CC1

Time Analyzed: 1515

Instrument ID: 71

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	193238	5.14	709751	6.69	350059	9.77
UPPER LIMIT	386476	5.64	1419502	7.19	700118	10.27
LOWER LIMIT	96619	4.64	354876	6.19	175030	9.27
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0228/S	255804	5.13	995926	6.68	566395	9.75
02 DF/S1/0228/S	260351	5.15	1034125	6.70	575929	9.78
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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 values outside QC limits with an asterisk.
* Values outside of QC limits

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: SDG No.: C0H160154

EPA Sample No. (SSTD050##): SSTD50

Date Analyzed: 08/25/00

Lab File ID (Standard): S0825CC1

Time Analyzed: 1515

Instrument ID: 71

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	450344	13.09	356403	19.74	378937	23.11
UPPER LIMIT	900688	13.59	712806	20.24	757874	23.61
LOWER LIMIT	225172	12.59	178202	19.24	189469	22.61
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DF/S1/0228/S	858077	13.07	547736	19.71	545660	23.08
02 DF/S1/0228/S	868674	13.11	514046	19.75	518651	23.12
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22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

* Values outside of QC limits

**GC/MS SEMIVOLATILE
SAMPLE DATA**

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DHX40103

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/25/00

Moisture %: 20

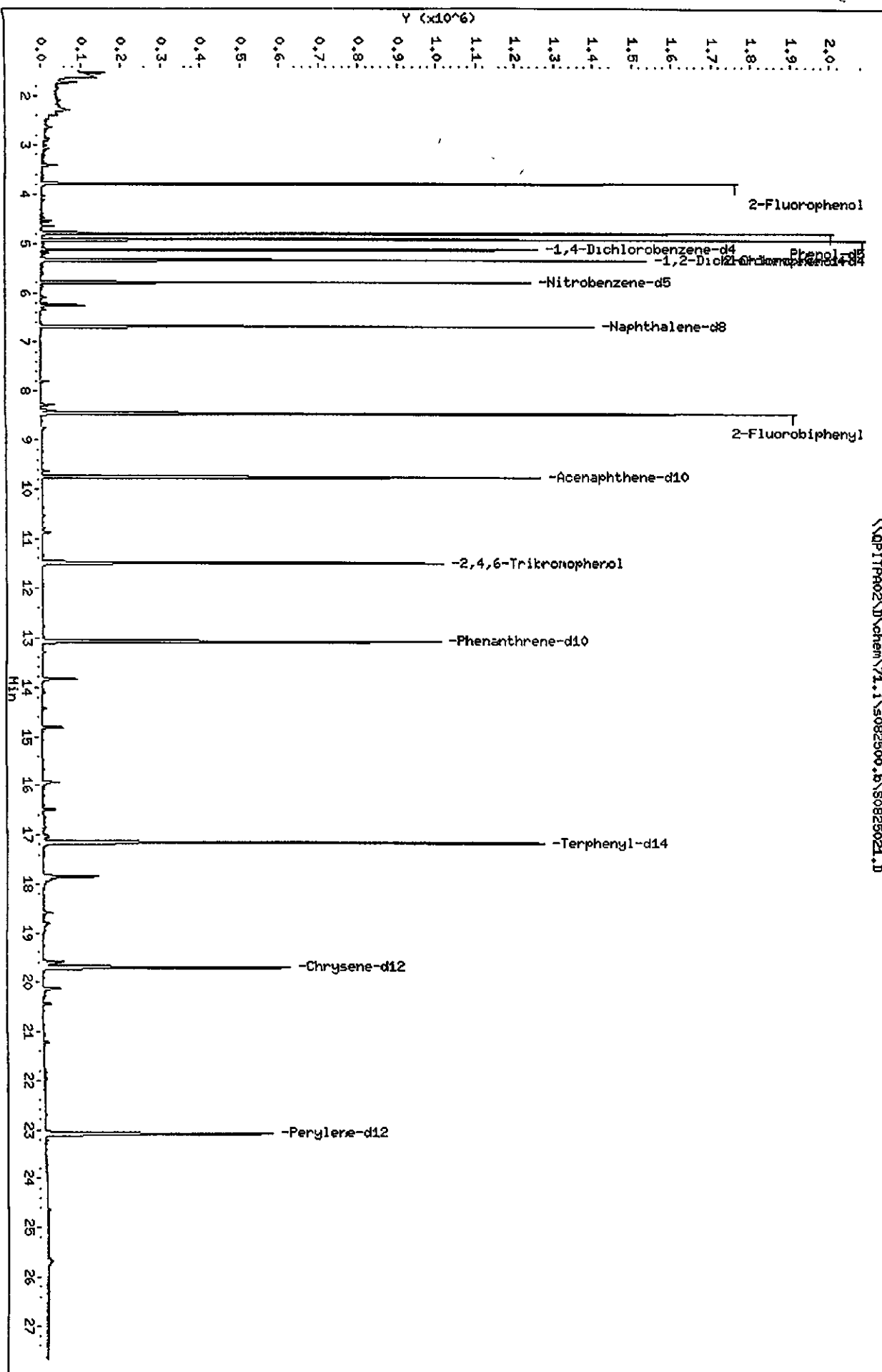
QC Batch: 0235112

Client Sample Id: DF/S1/0228/SDC/026

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: \\QPI\FR02\J\chem\74.1\5082500.b\50825024.D
Date: 25-AUG-2000 19:58
Client ID: JF/SL/0228/SDC/026
Sample Info: p0h160454-001 8/24/00 82700 tolp
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 74.1
Operator: 045183
Column diameter: 0.25



669.220

Data File: \\QPITPA02\D\chem\71.i\s082500.b\S0825021.D
Report Date: 28-Aug-2000 09:30

Page 1

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082500.b\S0825021.D
Lab Smp Id: DHX40103 Client Smp ID: DF/S1/0228/SDC/026
Inj Date : 25-AUG-2000 19:58
Operator : 045183 Inst ID: 71.i
Smp Info : c0h160154-001 8/21/00 8270c tclp
Misc Info : dhx40103,s082500.b,8270clp.m,1-tclp.sub,
Comment :
Method : \\QPITPA02\D\chem\71.i\s082500.b\8270clp.m
Meth Date : 28-Aug-2000 09:11 bachas Quant Type: ISTD
Cal Date : 25-AUG-2000 15:15 Cal File: S0825CC1.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.04
Processing Host: PITPC050

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{gpc}$

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

Handwritten signature

						CONCENTRATIONS		
		QUANT SIG					ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(mg/L)
=====		----	--	=====	=====	=====	-----	-----
*	1 1,4-Dichlorobenzene-d4	152	5.128	5.138	(1.000)	255804	40.0000	(a)
*	2 Naphthalene-d8	136	6.677	6.693	(1.000)	995926	40.0000	(a)
*	3 Acenaphthene-d10	164	9.749	9.765	(1.000)	566395	40.0000	(a)
*	4 Phenanthrene-d10	188	13.066	13.087	(1.000)	858077	40.0000	(a)
*	5 Chrysene-d12	240	19.706	19.738	(1.000)	547736	40.0000	(a)
*	6 Perylene-d12	264	23.077	23.109	(1.000)	545660	40.0000	(a)
	10 Pyridine	79	Compound Not Detected.					
	28 1,4-Dichlorobenzene	146	Compound Not Detected.					
M	34 Cresols, total	100	Compound Not Detected.					
	31 2-Methylphenol	108	Compound Not Detected.					
	35 4-Methylphenol	108	Compound Not Detected.					
	38 Hexachloroethane	117	Compound Not Detected.					
	39 Nitrobenzene	77	Compound Not Detected.					

Data File: \\QPITPA02\D\chem\71.i\s082500.b\S0825021.D
 Report Date: 28-Aug-2000 09:30

Page 2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (mg/L)
=====	=====	==	=====	=====	=====	=====	=====
59 Hexachlorobutadiene	224				Compound Not Detected.		
69 2,4,6-Trichlorophenol	196				Compound Not Detected.		
70 2,4,5-Trichlorophenol	196				Compound Not Detected.		
91 2,4-Dinitrotoluene	165				Compound Not Detected.		
113 Hexachlorobenzene	283				Compound Not Detected.		
117 Pentachlorophenol	265				Compound Not Detected.		
\$ 172 Nitrobenzene-d5	82	5.790	5.801	(0.867)	542197	59.3841	0.14846(a)
\$ 173 2-Fluorobiphenyl	172	8.440	8.461	(0.866)	1098425	52.5145	0.13129(a)
\$ 174 Terphenyl-d14	244	17.148	17.163	(0.870)	1047399	92.2464	0.23062(a)
\$ 175 Phenol-d5	99	4.797	4.802	(0.935)	954826	91.2005	0.22800(a)
\$ 176 2-Fluorophenol	112	3.792	3.792	(0.740)	661075	77.9362	0.19484(a)
\$ 177 2,4,6-Tribromophenol	330	11.496	11.512	(0.880)	264305	100.610	0.25152(a)
\$ 178 2-Chlorophenol-d4	132	4.919	4.930	(0.959)	774602	98.0927	0.24523(a)
\$ 179 1,2-Dichlorobenzene-d4	152	5.341	5.352	(1.042)	308720	52.7197	0.13180(a)

QC Flag Legend

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

669 222

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DHX47103

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/25/00

Moisture %: 21

QC Batch: 0235112

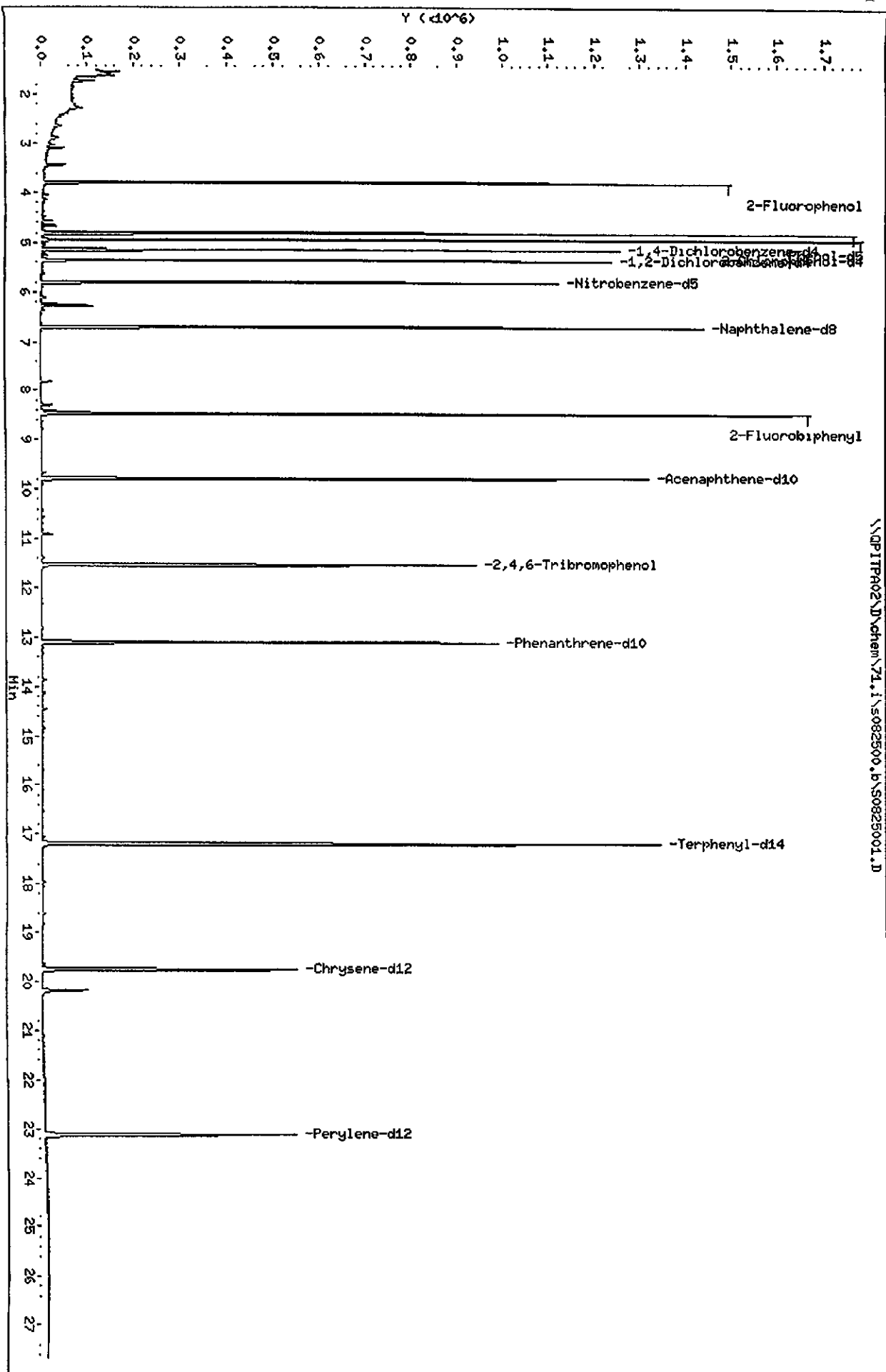
Client Sample Id: DF/S1/0228/SDC/027

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

FORM I

Data File: \\NPITPA02\chem\71.i\5082500.b\50825001.D
 Date: 25-AUG-2000 20:32
 Client ID: DF/SL/0228/SDC/027
 Sample Info: c0h160154-002 8/21/00 8270c tol p
 Volume Injected (uL): 2.0
 Column phase: HP5-MS

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



669 224

Data File: \\QPITPA02\D\chem\71.i\s082500.b\S0825001.D
Report Date: 28-Aug-2000 09:30

Page 1

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082500.b\S0825001.D
 Lab Smp Id: DHX47103 Client Smp ID: DF/S1/0228/SDC/027
 Inj Date : 25-AUG-2000 20:32
 Operator : 045183 Inst ID: 71.i
 Smp Info : c0h160154-002 8/21/00 8270c tclp
 Misc Info : dhx47103,s082500.b,8270clp.m,1-tclp.sub,
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s082500.b\8270clp.m
 Meth Date : 28-Aug-2000 09:11 bachas Quant Type: ISTD
 Cal Date : 25-AUG-2000 15:15 Cal File: S0825CC1.D
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-tclp.sub
 Target Version: 4.04
 Processing Host: PITPC050

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

Ly/MW

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

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	5.147	5.138	(1.000)	260351	40.0000	(a)	
* 2 Naphthalene-d8	136	6.701	6.693	(1.000)	1034125	40.0000	(a)	
* 3 Acenaphthene-d10	164	9.778	9.765	(1.000)	575929	40.0000	(a)	
* 4 Phenanthrene-d10	188	13.106	13.087	(1.000)	868674	40.0000	(a)	
* 5 Chrysene-d12	240	19.752	19.738	(1.000)	514046	40.0000	(a)	
* 6 Perylene-d12	264	23.123	23.109	(1.000)	518651	40.0000	(a)	
10 Pyridine	79	Compound Not Detected.						
28 1,4-Dichlorobenzene	146	Compound Not Detected						
M 34 Cresols, total	100	Compound Not Detected						
31 2-Methylphenol	108	Compound Not Detected						
35 4-Methylphenol	108	Compound Not Detected.						
38 Hexachloroethane	117	Compound Not Detected.						
39 Nitrobenzene	77	Compound Not Detected.						

Data File: \\QPITPA02\D\chem\71.i\s082500.b\S0825001.D
 Report Date: 28-Aug-2000 09:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (mg/L)
-----	----	--	-----	-----	-----	-----	-----
59 Hexachlorobutadiene	224				Compound Not Detected.		
69 2,4,6-Trichlorophenol	196				Compound Not Detected.		
70 2,4,5-Trichlorophenol	196				Compound Not Detected.		
91 2,4-Dinitrotoluene	165				Compound Not Detected.		
113 Hexachlorobenzene	283				Compound Not Detected.		
117 Pentachlorophenol	265				Compound Not Detected.		
\$ 172 Nitrobenzene-d5	82	5.809	5.801	(0.867)	486352	51.3001	0.12825(a)
\$ 173 2-Fluorobiphenyl	172	8.469	8.461	(0.866)	968044	45.5150	0.11379(a)
\$ 174 Terphenyl-d14	244	17.188	17.163	(0.870)	1067954	100.221	0.25055(a)
\$ 175 Phenol-d5	99	4.810	4.802	(0.935)	854859	80.2260	0.20056(a)
\$ 176 2-Fluorophenol	112	3.800	3.792	(0.738)	560130	64.8821	0.16220(a)
\$ 177 2,4,6-Tribromophenol	330	11.530	11.512	(0.880)	248230	93.3385	0.23335(a)
\$ 178 2-Chlorophenol-d4	132	4.933	4.930	(0.958)	676264	84.1439	0.21036(a)
\$ 179 1,2-Dichlorobenzene-d4	152	5.355	5.352	(1.040)	255099	42.8021	0.10700(a)

QC Flag Legend

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DHX4A103

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 15

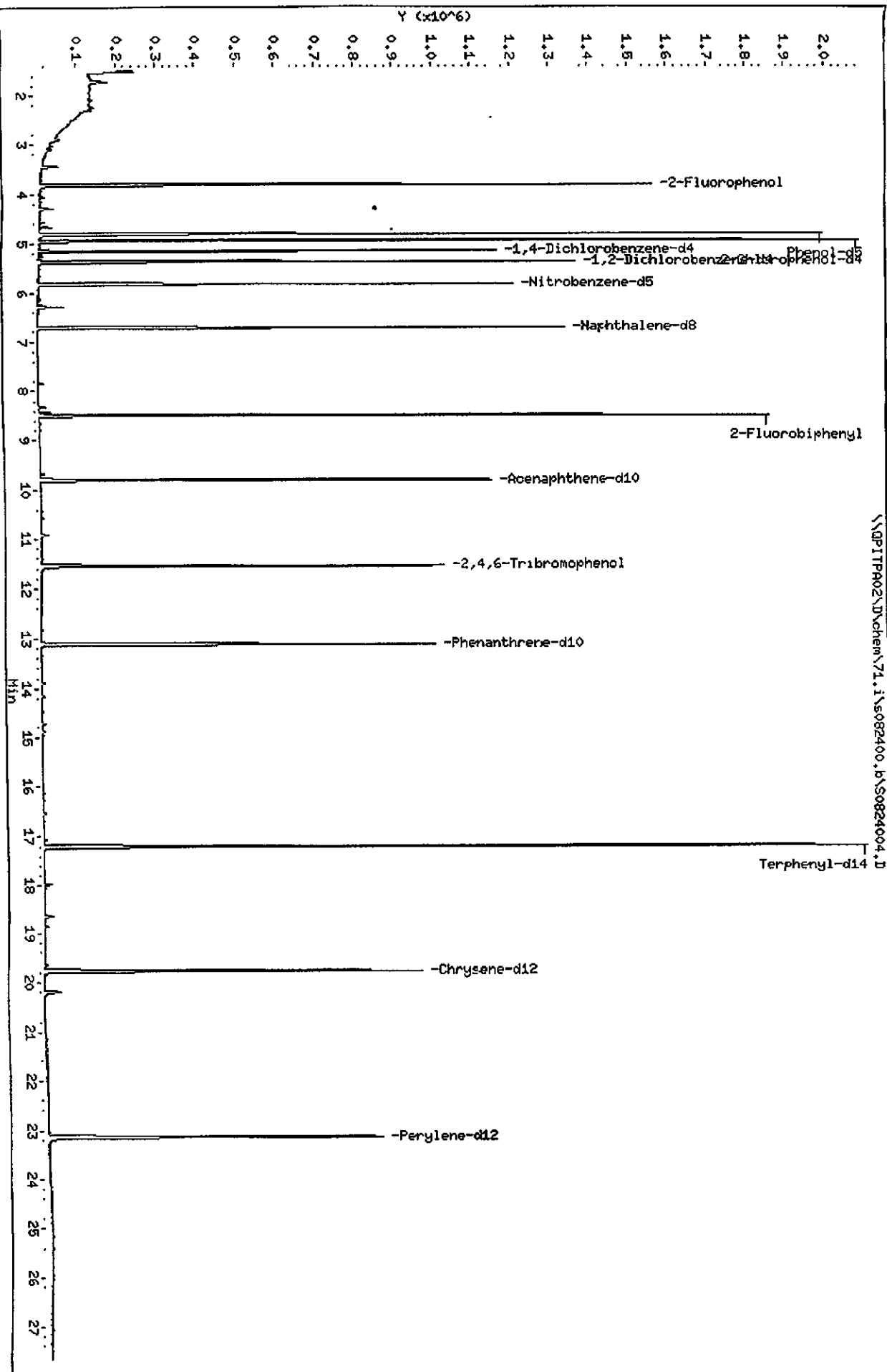
QC Batch: 0235112

Client Sample Id: DF/S1/0228/SDC/028

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: \\GPITP02\chem\71.1\5082400.b\50824004.D
 Date : 24-AUG-2000 20:38
 Client ID: DF/81/0228/SDC/028
 Sample Info: 00H60154-003 8/21/00 8270c tolp
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

Instrument: 71.1
 Operator: 045183
 Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824004.D
 Lab Smp Id: DHX4A103 Client Smp ID: DF/S1/0228/SDC/028
 Inj Date : 24-AUG-2000 20:38
 Operator : 045183 Inst ID: 71.i
 Smp Info : c0h160154-003 8/21/00 8270c tclp
 Misc Info : dhx4a103,s082400.b,8270clp.m,1-tclp.sub,
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
 Meth Date : 25-Aug-2000 12:01 bachas Quant Type: ISTD
 Cal Date : 24-AUG-2000 15:30 Cal File: S0824CCC.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-tclp.sub
 Target Version: 4.04
 Processing Host: PITPC050

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

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

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(mg/L)
*****	****	..	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	5.153	5.153	(1.000)	249421	40.0000	(a)
* 2 Naphthalene-d8	136	6.707	6.713	(1.000)	925495	40.0000	(a)
* 3 Acenaphthene-d10	164	9.790	9.795	(1.000)	497519	40.0000	(a)
* 4 Phenanthrene-d10	188	13.112	13.123	(1.000)	852952	40.0000	(a)
* 5 Chrysene-d12	240	19.769	19.780	(1.000)	834462	40.0000	(a)
* 6 Perylene-d12	264	23.140	23.145	(1.000)	791413	40.0000	(a)
10 Pyridine	79	Compound Not Detected.					
28 1,4-Dichlorobenzene	146	Compound Not Detected.					
M 34 Cresols, total	100	Compound Not Detected.					
31 2-Methylphenol	108	Compound Not Detected.					
35 4-Methylphenol	108	Compound Not Detected.					
38 Hexachloroethane	117	Compound Not Detected.					
39 Nitrobenzene	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (mg/L)
59 Hexachlorobutadiene	224				Compound Not Detected.		
69 2,4,6-Trichlorophenol	196				Compound Not Detected.		
70 2,4,5-Trichlorophenol	196				Compound Not Detected.		
91 2,4-Dinitrotoluene	165				Compound Not Detected.		
113 Hexachlorobenzene	283				Compound Not Detected.		
117 Pentachlorophenol	265				Compound Not Detected.		
\$ 172 Nitrobenzene-d5	82	5.815	5.821	(0.867)	513329	62.4448	0.15611(a)
\$ 173 2-Fluorobiphenyl	172	8.481	8.481	(0.866)	997595	61.2222	0.15306(a)
\$ 174 Terphenyl-d14	244	17.199	17.199	(0.870)	1593457	97.6744	0.24418(a)
\$ 175 Phenol-d5	99	4.811	4.816	(0.934)	908989	90.3383	0.22584(a)
\$ 176 2-Fluorophenol	112	3.801	3.807	(0.738)	644168	80.9168	0.20229(a)
\$ 177 2,4,6-Tribromophenol	330	11.542	11.542	(0.880)	229044	113.000	0.28250(a)
\$ 178 2-Chlorophenol-d4	132	4.939	4.945	(0.959)	742971	101.267	0.25317(a)
\$ 179 1,2-Dichlorobenzene-d4	152	5.366	5.367	(1.041)	286937	51.1284	0.12782(a)

QC Flag Legend

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

669 230

**GC/MS SEMIVOLATILE
CALIBRATION DATA**

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

669 231

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: CUM/60154

Instrument ID: 71

Calibration Date(s): 08/23/00 08/23/00

Calibration Time(s): 1935

2150

LAB FILE ID:		RRF20 =S0823CC1.		RRF50 =S0823CC2		RRF160=S0823CC5	
RRF80 =S0823CC3		RRF120=S0823CC4					
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Phenol	2.028	2.226	2.129	2.109	1.972	2.093	4.7
bis(2-Chloroethyl) ether	1.545	1.687	1.595	1.585	1.563	1.595	3.5
2-Chlorophenol	1.398	1.536	1.448	1.445	1.397	1.445	3.9
1,3-Dichlorobenzene	1.480	1.607	1.501	1.497	1.454	1.508	3.9
1,4-Dichlorobenzene	1.503	1.628	1.524	1.516	1.476	1.529	3.8
1,2-Dichlorobenzene	1.376	1.507	1.412	1.393	1.335	1.405	4.5
2-Methylphenol	1.285	1.420	1.372	1.407	1.410	1.379	4.0
2,2'-oxybis(1-Chloropropane)	2.551	2.702	2.588	2.584	2.582	2.601	2.2
4-Methylphenol	1.361	1.529	1.480	1.468	1.380	1.444	4.9
Hexachloroethane	0.544	0.601	0.564	0.564	0.562	0.567	3.7
Nitrobenzene	0.404	0.444	0.434	0.446	0.439	0.433	4.0
Isophorone	0.684	0.764	0.754	0.768	0.763	0.747	4.7
2-Nitrophenol	0.162	0.189	0.183	0.190	0.190	0.183	6.7
2,4-Dimethylphenol	0.334	0.367	0.356	0.370	0.368	0.359	4.2
bis(2-Chloroethoxy) methane	0.428	0.478	0.461	0.468	0.458	0.459	4.1
N-Nitroso-di-n-propylamine *	1.056	1.170	1.168	1.195	1.232	1.164	5.7*
2,4-Dichlorophenol	0.251	0.279	0.270	0.278	0.278	0.271	4.4
1,2,4-Trichlorobenzene	0.275	0.301	0.280	0.283	0.278	0.283	3.5
Naphthalene	1.043	1.138	1.068	1.085	1.036	1.074	3.8
4-Chloroaniline	0.393	0.440	0.422	0.434	0.429	0.424	4.3
Hexachlorobutadiene	0.149	0.165	0.152	0.156	0.152	0.155	3.9
4-Chloro-3-Methylphenol	0.265	0.301	0.300	0.318	0.324	0.302	7.7
2-Methylnaphthalene	0.611	0.698	0.668	0.686	0.674	0.667	5.1
Hexachlorocyclopentadiene *	0.322	0.356	0.340	0.360	0.352	0.346	4.5*
2,4,6-Trichlorophenol	0.333	0.375	0.351	0.371	0.357	0.357	4.7
2,4,5-Trichlorophenol	0.350	0.398	0.371	0.397	0.383	0.380	5.3
2-Chloronaphthalene	1.167	1.301	1.184	1.197	1.097	1.189	6.2
2-Nitroaniline	0.361	0.421	0.412	0.439	0.441	0.415	7.8
Dimethylphthalate	1.150	1.314	1.249	1.325	1.291	1.266	5.6
Acenaphthylene	1.646	1.929	1.811	1.876	1.801	1.813	5.9
2,6-Dinitrotoluene	0.219	0.286	0.280	0.302	0.299	0.277	12.1
3-Nitroaniline	0.271	0.339	0.331	0.358	0.362	0.332	11.0
Acenaphthene	1.018	1.178	1.114	1.157	1.132	1.120	5.5
2,4-Dinitrophenol *	0.057	0.104	0.115	0.137	0.149	0.112	31.9*
4-Nitrophenol *	0.126	0.163	0.159	0.173	0.172	0.159	12.2*
Dibenzofuran	1.419	1.639	1.531	1.603	1.575	1.553	5.5
2,4-Dinitrotoluene	0.261	0.346	0.339	0.373	0.375	0.339	13.7

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

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.:

00416054

Instrument ID: 71

Calibration Date(s): 08/23/00

08/23/00

Calibration Time(s): 1935

2150

LAB FILE ID:		RRF20 =S0823CC1	RRF50 =S0823CC2				
RRF80 =S0823CC3		RRF120=S0823CC4	RRF160=S0823CC5				
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Diethylphthalate	1.000	1.235	1.180	1.254	1.256	1.185	9.1
4-Chlorophenyl-phenylether	0.518	0.610	0.582	0.617	0.615	0.588	7.1
Fluorene	1.118	1.350	1.287	1.371	1.360	1.297	8.1
4-Nitroaniline	0.257	0.334	0.325	0.348	0.353	0.323	12.0
4,6-Dinitro-2-methylphenol	0.059	0.107	0.115	0.132	0.144	0.111	29.4
N-Nitrosodiphenylamine (1)	0.542	0.641	0.606	0.642	0.657	0.618	7.5
4-Bromophenyl-phenylether	0.188	0.228	0.210	0.227	0.232	0.217	8.4
Hexachlorobenzene	0.197	0.245	0.228	0.242	0.247	0.232	9.0
Pentachlorophenol	0.095	0.137	0.140	0.153	0.158	0.137	18.1
Phenanthrene	0.974	1.204	1.124	1.193	1.214	1.142	8.8
Anthracene	0.974	1.232	1.173	1.254	1.285	1.184	10.5
Carbazole	0.888	1.164	1.104	1.208	1.235	1.120	12.4
Di-n-Butylphthalate	0.980	1.320	1.287	1.393	1.422	1.280	13.8
Fluoranthene	0.880	1.185	1.157	1.271	1.313	1.161	14.6
Pyrene	1.043	1.038	0.970	1.002	0.978	1.006	3.3
Butylbenzylphthalate	0.430	0.465	0.441	0.463	0.471	0.454	3.9
3,3'-Dichlorobenzidine	0.428	0.476	0.466	0.464	0.452	0.457	4.0
Benzo (a) Anthracene	0.951	1.030	1.001	1.032	1.028	1.008	3.4
Chrysene	0.902	0.972	0.950	0.986	0.980	0.958	3.5
bis (2-ethylhexyl) Phthalate	0.598	0.669	0.663	0.690	0.691	0.662	5.7
Di-n-octylphthalate	1.075	1.358	1.367	1.482	1.460	1.348	12.0
Benzo (b) fluoranthene	1.024	1.281	1.224	1.421	1.574	1.305	15.9
Benzo (k) fluoranthene	1.296	1.638	1.679	1.709	1.389	1.542	12.1
Benzo (a) pyrene	0.984	1.220	1.221	1.316	1.335	1.215	11.5
Indeno (1,2,3-cd) pyrene	1.337	1.667	1.714	1.887	1.903	1.702	13.4
Dibenz (a,h) anthracene	1.189	1.512	1.577	1.778	1.765	1.564	15.3
Benzo (g,h,i) perylene	1.126	1.361	1.382	1.532	1.597	1.400	13.0
Pyridine	1.663	1.744	1.739	1.654	1.479	1.656	6.5
N-Nitrosodimethylamine	0.964	1.084	1.048	1.020	0.888	1.001	7.7
Aniline	2.050	2.216	2.124	2.090	1.971	2.090	4.3
Benzyl Alcohol	0.992	1.113	1.084	1.114	1.106	1.082	4.8
Benzoic Acid	0.122	0.192	0.201	0.202	0.213	0.186	19.5
1-Methylnaphthalene	0.575	0.650	0.627	0.645	0.632	0.626	4.8
2,3,4,6-Tetrachlorophenol	0.238	0.298	0.285	0.312	0.305	0.288	10.2
2,3,5,6-Tetrachlorophenol	0.229	0.281	0.276	0.306	0.301	0.279	10.9
1,2-Diphenylhydrazine	0.958	1.120	1.013	1.072	1.106	1.054	6.4
Benzidine	0.338	0.349	0.306	0.309	0.312	0.323	6.1

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

Contract:

Lab Code: STLPIIT

Case No. :

SAS No. :

SDG No.: CUH/60154

Instrument ID: 71

Calibration Date(s): 08/23/00 08/23/00

Calibration Time(s): 1935 2150

[illegible]

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

669 234

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

INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0823CC2.D
Analysis Type: NONEInjection Date: 23-AUG-2000 19:35
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s082300.b\

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

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

INITIAL CALIBRATION REPORT

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

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

COMPOUND	%RSD
N-Nitrosodimethylamine	7.7
Pyridine	6.5
Methyl methanesulfonate	1.9
2-Fluorophenol	4.4
Phenol-d5	3.9
Phenol	4.7
Aniline	4.3
bis(2-Chloroethyl)ether	3.5
2-Chlorophenol-d4	3.7
2-Chlorophenol	3.9
1,3-Dichlorobenzene	3.9
1,4-Dichlorobenzene	3.8
Benzyl Alcohol	4.8
1,2-Dichlorobenzene-d4	4.2
1,2-Dichlorobenzene	4.5
2-Methylphenol	4.0
2,2'-oxybis(1-Chloropropane)	2.2
4-Methylphenol	4.9
N-Nitroso-di-n-propylamine	5.7
Hexachloroethane	3.7
Nitrobenzene-d5	3.5
Nitrobenzene	4.0
Isophorone	4.7
2-Nitrophenol	6.7
2,4-Dimethylphenol	4.2
Benzoic Acid	19.5
bis(2-Chloroethoxy)methane	4.1
2,4-Dichlorophenol	4.4
1,2,4-Trichlorobenzene	3.5
Naphthalene	3.8
4-Chloroaniline	4.3
Hexachlorobutadiene	3.9
4-Chloro-3-Methylphenol	7.7
2-Methylnaphthalene	5.1
1-Methylnaphthalene	4.8
Hexachlorocyclopentadiene	4.5
2,4,6-Trichlorophenol	4.7
2,4,5-Trichlorophenol	5.3
2-Fluorobiphenyl	3.7

669 236

Data File: \\QPITPA02\D\chem\71.i\s082300.b/S0823CC2.D

Report Date: 08/24/2000

INITIAL CALIBRATION REPORT

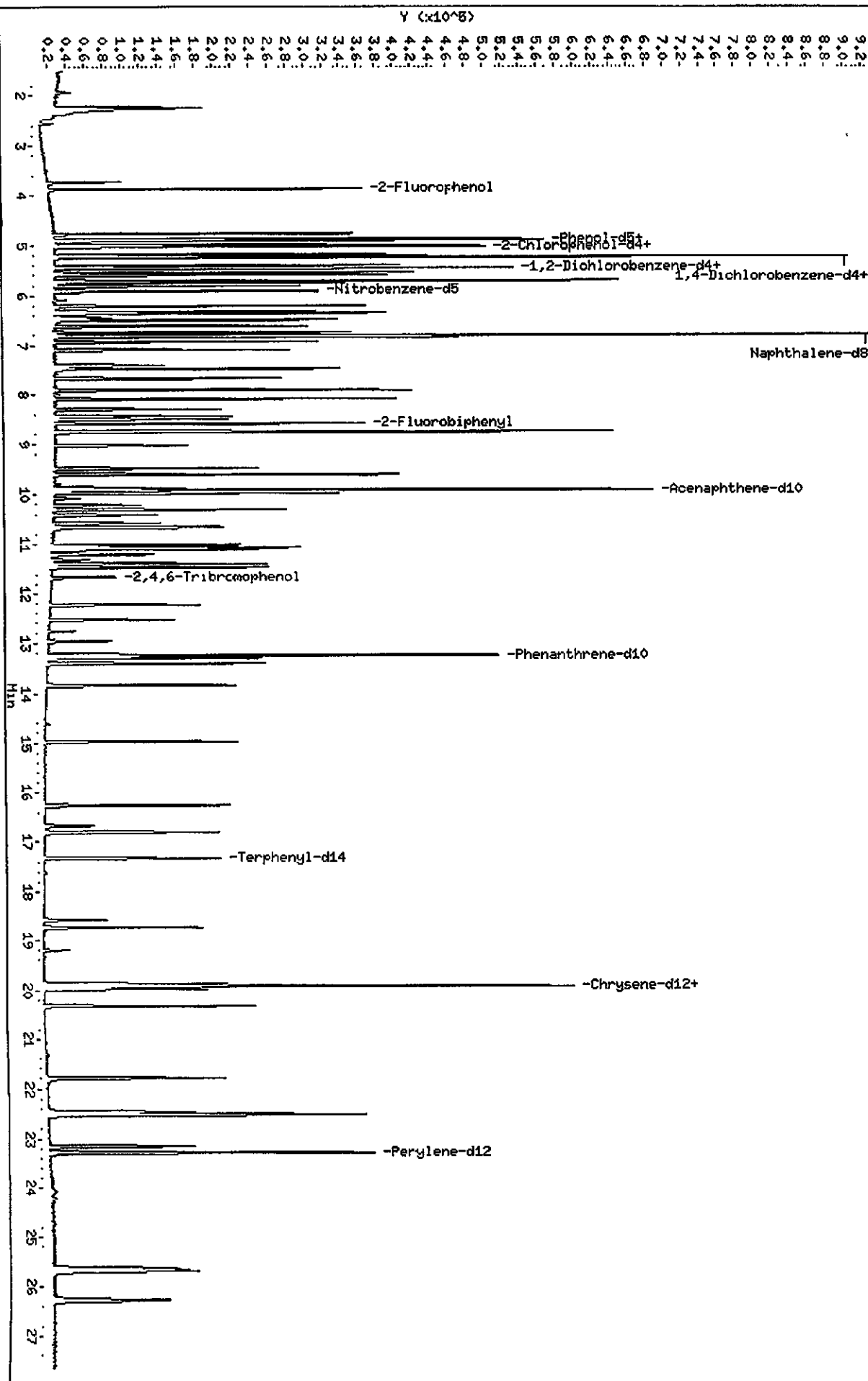
Instrument ID: 71.i
 Lab File ID: S0823CC2.D
 Analysis Type: NONE

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

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

Data File: \\QPI\PA02\Nchem\74.1\5082300.b\50823001.D
 Date: 23-AUG-2000 20:09
 Client ID: SST020
 Sample Info: sst020(10 ug/ml) 194-188-3 8270/c1p
 Column phase: Hp5-MS

Instrument: 74.1
 Operator: 045183
 Column diameter: 0.25



669 238

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

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STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823CC1.D
 Lab Smp Id: sstd20 Client Smp ID: SSTD20
 Inj Date : 23-AUG-2000 20:09
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd20(10 ug/ml) 194-188-3 8270/clp
 Misc Info : sstd20,s082300.b,8270clp.m,1-82701.sub,1,1
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
 Meth Date : 24-Aug-2000 08:19 BachaS Quant Type: ISTD
 Cal Date : 23-AUG-2000 19:35 Cal File: S0823CC2.D
 Als bottle: 94 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	****	**	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	5.232	5.232	(1.000)	164744	40.0000	
* 2 Naphthalene-d8	136	6.802	6.802	(1.000)	606167	40.0000	
* 3 Acenaphthene-d10	164	9.901	9.901	(1.000)	278861	40.0000	
* 4 Phenanthrene-d10	188	13.245	13.245	(1.000)	407984	40.0000	
* 5 Chrysene-d12	240	19.912	19.912	(1.000)	349799	40.0000	
* 6 Perylene-d12	264	23.288	23.288	(1.000)	321713	40.0000	
13 N-Nitrosodimethylamine	74	2.224	2.224	(0.425)	79402	20.0000	19.260 (M)
10 Pyridine	79	2.251	2.251	(0.430)	136957	20.0000	20.086 (M)
19 Methyl methanesulfonate	80	3.731	3.731	(0.713)	39151	20.0000	19.500
22 Aniline	93	4.917	4.917	(0.940)	168909	20.0000	19.620
23 Phenol	94	4.890	4.890	(0.935)	167078	20.0000	19.382
24 bis(2-Chloroethyl)ether	93	4.986	4.986	(0.953)	127232	20.0000	19.367
25 2-Chlorophenol	128	5.029	5.029	(0.961)	115148	20.0000	19.350
27 1,3-Dichlorobenzene	146	5.189	5.189	(0.992)	121959	20.0000	19.640
28 1,4-Dichlorobenzene	146	5.248	5.248	(1.003)	123781	20.0000	19.649
29 1,2-Dichlorobenzene	146	5.462	5.462	(1.044)	113354	20.0000	19.596
30 Benzyl Alcohol	108	5.403	5.403	(1.033)	81721	20.0000	18.343
31 2-Methylphenol	108	5.547	5.547	(1.060)	105835	20.0000	18.635
32 2,2'-oxybis(1-Chloropropane)	45	5.590	5.590	(1.068)	210140	20.0000	19.611
33 N-Nitroso-di-n-propylamine	70	5.750	5.750	(1.099)	86973	20.0000	18.137
35 4-Methylphenol	108	5.707	5.707	(1.091)	112076	20.0000	18.852
38 Hexachloroethane	117	5.814	5.814	(1.111)	44773	20.0000	19.172
39 Nitrobenzene	77	5.921	5.921	(0.870)	122300	20.0000	18.631
44 Isophorone	82	6.204	6.204	(0.912)	207448	20.0000	18.332
45 2-Nitrophenol	139	6.322	6.322	(0.929)	48981	20.0000	17.682
46 2,4-Dimethylphenol	107	6.354	6.354	(0.934)	101231	20.0000	18.606

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

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
47 bis(2-Chloroethoxy)methane	93	6.493	6.493	(0.954)	129613	20.0000	18.650
51 2,4-Dichlorophenol	162	6.615	6.615	(0.973)	76036	20.0000	18.498
52 Benzoic Acid	122	6.450	6.450	(0.948)	37106	20.0000	13.173 (M)
53 1,2,4-Trichlorobenzene	180	6.744	6.744	(0.991)	83496	20.0000	19.429
54 Naphthalene	128	6.829	6.829	(1.004)	316135	20.0000	19.421
55 4-Chloroaniline	127	6.931	6.931	(1.019)	119239	20.0000	18.565
59 Hexachlorobutadiene	225	7.091	7.091	(1.042)	45254	20.0000	19.293
62 4-Chloro-3-Methylphenol	107	7.657	7.657	(1.126)	80254	20.0000	17.550
65 2-Methylnaphthalene	142	7.892	7.892	(1.160)	185098	20.0000	18.299
66 1-Methylnaphthalene	142	8.079	8.079	(1.188)	174366	20.0000	18.383
67 Hexachlorocyclopentadiene	237	8.293	8.293	(0.838)	44889	20.0000	18.594
69 2,4,6-Trichlorophenol	196	8.432	8.432	(0.852)	46435	20.0000	18.644
70 2,4,5-Trichlorophenol	196	8.491	8.491	(0.858)	48753	20.0000	18.413
73 2-Chloronaphthalene	162	8.758	8.758	(0.885)	162703	20.0000	19.627
77 2-Nitroaniline	65	9.014	9.014	(0.910)	50365	20.0000	17.417
80 Dimethylphthalate	163	9.468	9.468	(0.956)	160410	20.0000	18.176
82 2,6-Dinitrotoluene	165	9.596	9.596	(0.969)	30576	20.0000	15.820
83 Acenaphthylene	152	9.580	9.580	(0.968)	229573	20.0000	18.164
85 3-Nitroaniline	138	9.858	9.858	(0.996)	37806	20.0000	16.321
86 Acenaphthene	153	9.970	9.970	(1.007)	141899	20.0000	18.175
87 2,4-Dinitrophenol	184	10.077	10.077	(1.018)	7895	20.0000	10.065
89 4-Nitrophenol	109	10.211	10.211	(1.031)	17526	20.0000	15.847
90 Dibenzofuran	168	10.307	10.307	(1.041)	197915	20.0000	18.274
91 2,4-Dinitrotoluene	165	10.419	10.419	(1.052)	36379	20.0000	15.399
95 2,3,5,6-Tetrachlorophenol	232	10.579	10.579	(1.069)	31913	20.0000	16.437
92 2,3,4,6-Tetrachlorophenol	232	10.675	10.675	(1.078)	33225	20.0000	16.561
96 2-Naphthylamine	143	10.649	10.649	(1.076)	117974	20.0000	21.748
97 Diethylphthalate	149	11.017	11.017	(1.113)	139453	20.0000	16.882
98 Fluorene	166	11.065	11.065	(1.118)	155827	20.0000	17.232
99 4-Chlorophenyl-phenylether	204	11.103	11.103	(1.121)	72209	20.0000	17.601
100 4-Nitroaniline	138	11.204	11.204	(1.132)	35849	20.0000	15.896
102 4,6-Dinitro-2-methylphenol	198	11.317	11.317	(0.854)	11965	20.0000	10.543
103 N-Nitrosodiphenylamine (1)	169	11.386	11.386	(0.860)	110472	20.0000	17.547
104 1,2-Diphenylhydrazine	77	11.450	11.450	(0.864)	195505	20.0000	18.189
112 4-Bromophenyl-phenylether	248	12.219	12.219	(0.923)	38336	20.0000	17.320
113 Hexachlorobenzene	284	12.524	12.524	(0.946)	40179	20.0000	16.979
117 Pentachlorophenol	266	12.962	12.962	(0.979)	19422	20.0000	13.952
122 Phenanthrene	178	13.293	13.293	(1.004)	198697	20.0000	17.063
123 Anthracene	178	13.400	13.400	(1.012)	198763	20.0000	16.464
126 Carbazole	167	13.833	13.833	(1.044)	181073	20.0000	15.855
130 Di-n-Butylphthalate	149	14.981	14.981	(1.131)	199819	20.0000	15.303
135 Fluoranthene	202	16.253	16.253	(1.227)	179634	20.0000	15.164
136 Benzidine	184	16.669	16.669	(0.837)	59109	20.0000	20.936
137 Pyrene	202	16.798	16.798	(0.844)	182414	20.0000	20.727
144 Butylbenzylphthalate	149	18.737	18.737	(0.941)	75227	20.0000	18.942
149 3,3'-Dichlorobenzidine	252	19.907	19.907	(1.000)	74872	20.0000	18.724
150 Benzo(a)Anthracene	228	19.869	19.869	(0.998)	166387	20.0000	18.864

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
151 Chrysene	228	19.971	19.971	(1.003)	157829	20.0000	18.839
153 bis(2-ethylhexyl)Phthalate	149	20.313	20.313	(1.020)	104637	20.0000	18.068
155 Di-n-octylphthalate	149	21.782	21.782	(0.935)	172942	20.0000	15.945
157 Benzo(b)fluoranthene	252	22.455	22.455	(0.964)	164753	20.0000	15.700
158 Benzo(k)fluoranthene	252	22.508	22.508	(0.967)	208444	20.0000	16.805
159 7,12-dimethylbenz[a]anthracen	256	22.514	22.514	(0.967)	81974	20.0000	14.942
167 Benzo(a)pyrene	252	23.160	23.160	(0.994)	158363	20.0000	16.202
169 Indeno(1,2,3-cd)pyrene	276	25.639	25.639	(1.101)	215137	20.0000	15.718
170 Dibenz(a,h)anthracene	278	25.687	25.687	(1.103)	191327	20.0000	15.206
171 Benzo(g,h,i)perylene	276	26.258	26.258	(1.128)	181204	20.0000	16.097
\$ 172 Nitrobenzene-d5	82	5.900	5.900	(0.867)	120151	20.0000	18.840
\$ 173 2-Fluorobiphenyl	172	8.581	8.581	(0.867)	181439	20.0000	19.742
\$ 174 Terphenyl-d14	244	17.326	17.326	(0.870)	149649	20.0000	20.800
\$ 175 Phenol-d5	99	4.879	4.879	(0.933)	153042	20.0000	19.478
\$ 176 2-Fluorophenol	112	3.875	3.875	(0.741)	118803	20.0000	19.846
\$ 177 2,4,6-Tribromophenol	330	11.658	11.658	(0.880)	18993	20.0000	16.227
\$ 178 2-Chlorophenol-d4	132	5.013	5.013	(0.958)	103452	20.0000	19.731
\$ 179 1,2-Dichlorobenzene-d4	152	5.446	5.446	(1.041)	73100	20.0000	19.996

QC Flag Legend

M - Compound response manually integrated.

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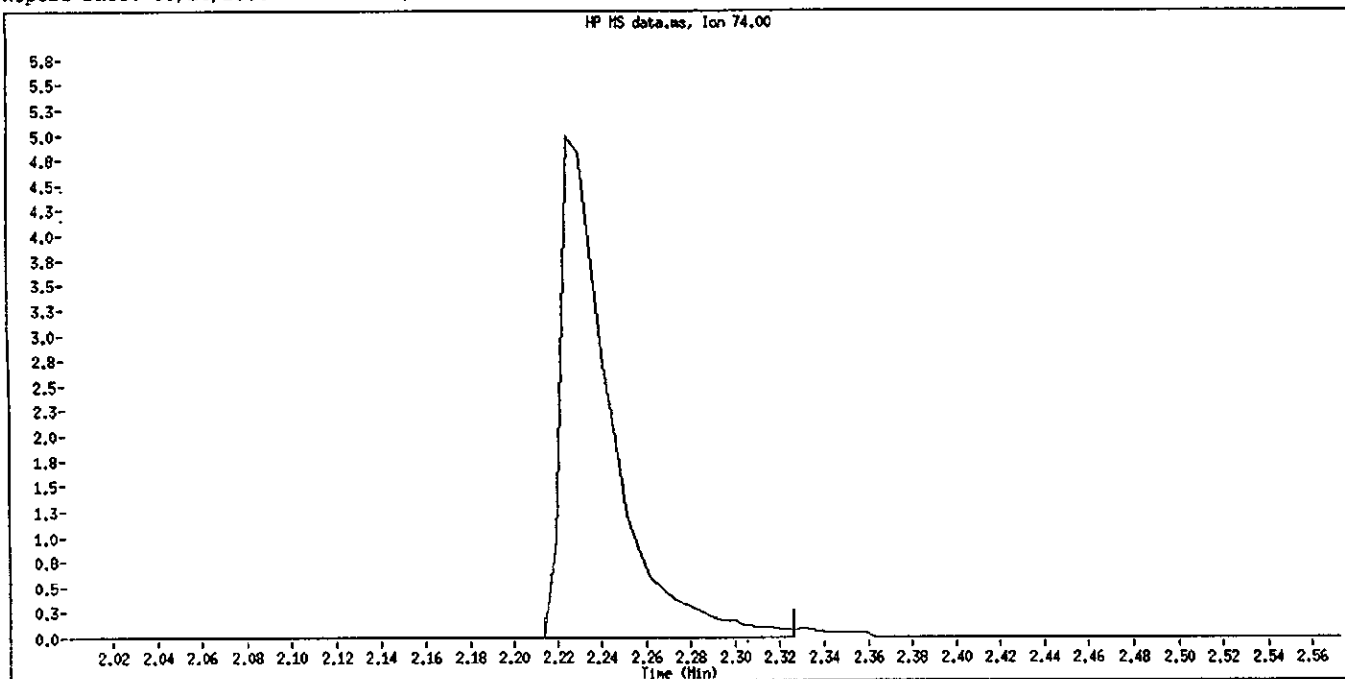
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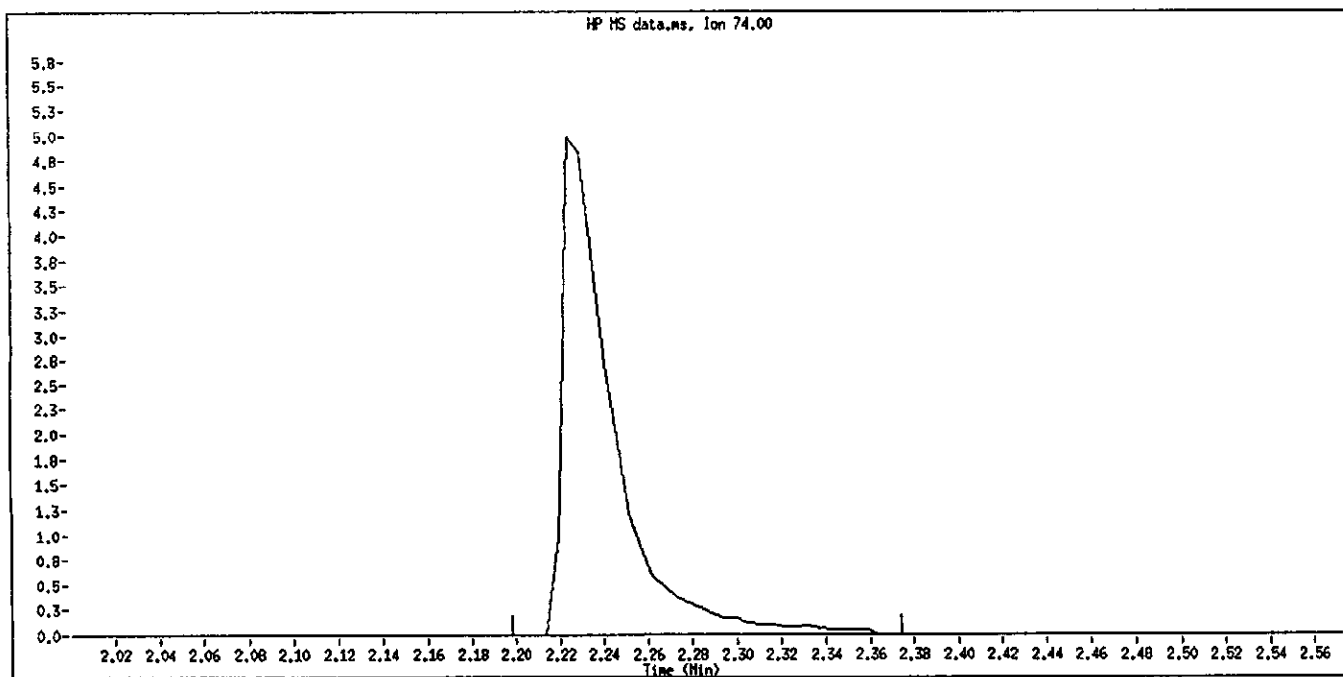
Compound Name: N-Nitrosodimethylamine

CAS #: 62-75-9

Report Date: 08/24/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

669 242

Data File Name S0823CC1.D

Inj. Date and Time: 23-AUG-2000 20:09

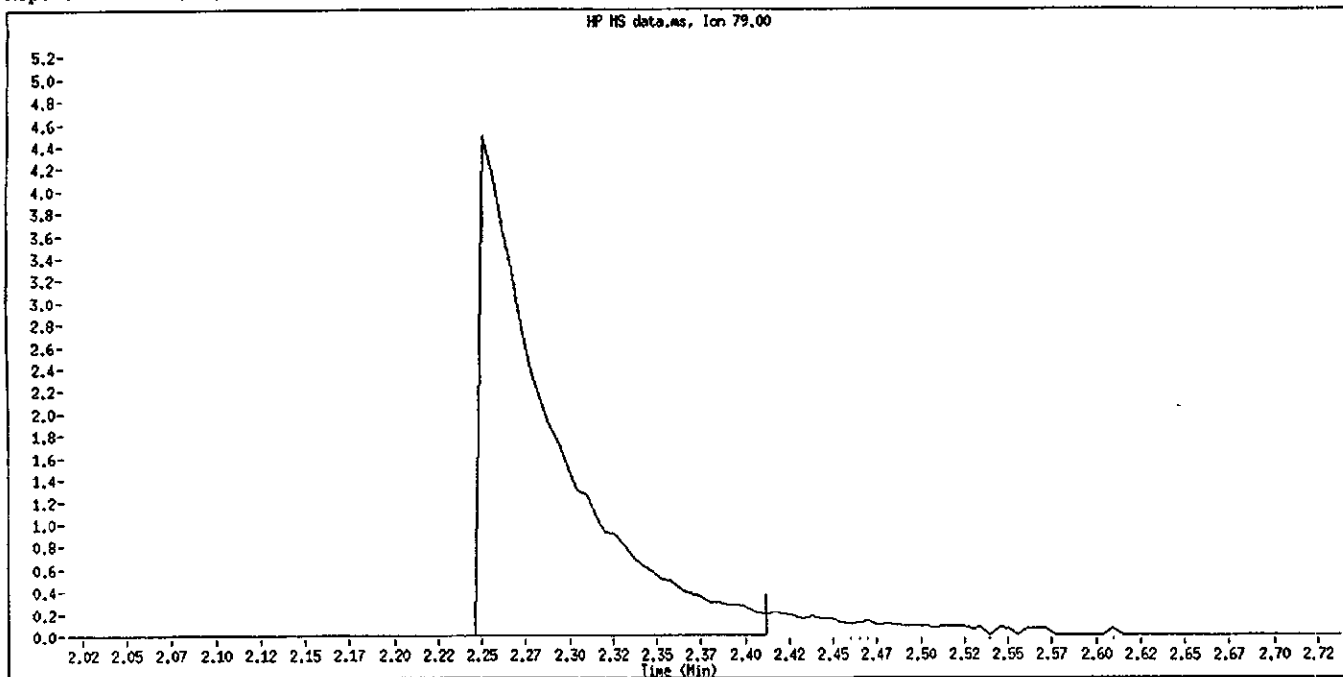
Instrument ID 71 1

Client ID: SSTD20

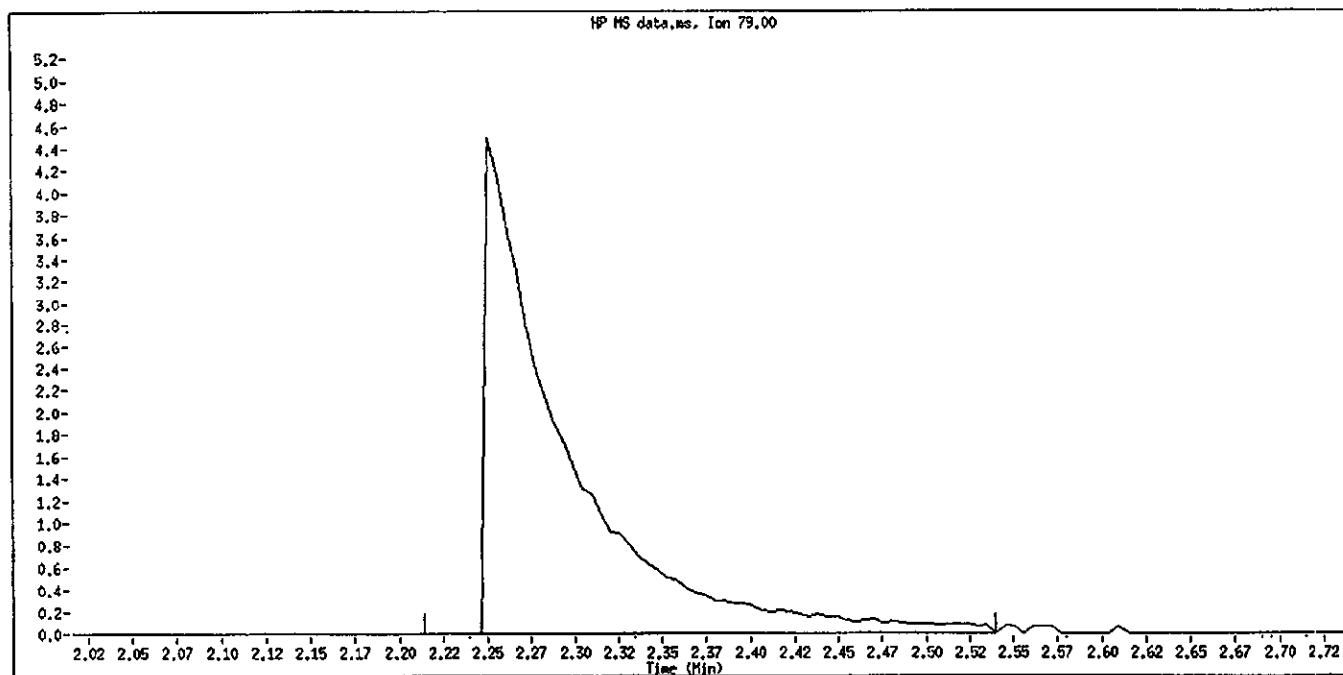
Compound Name: Pyridine

CAS #: 110-86-1

Report Date: 08/24/2000



Original Integration



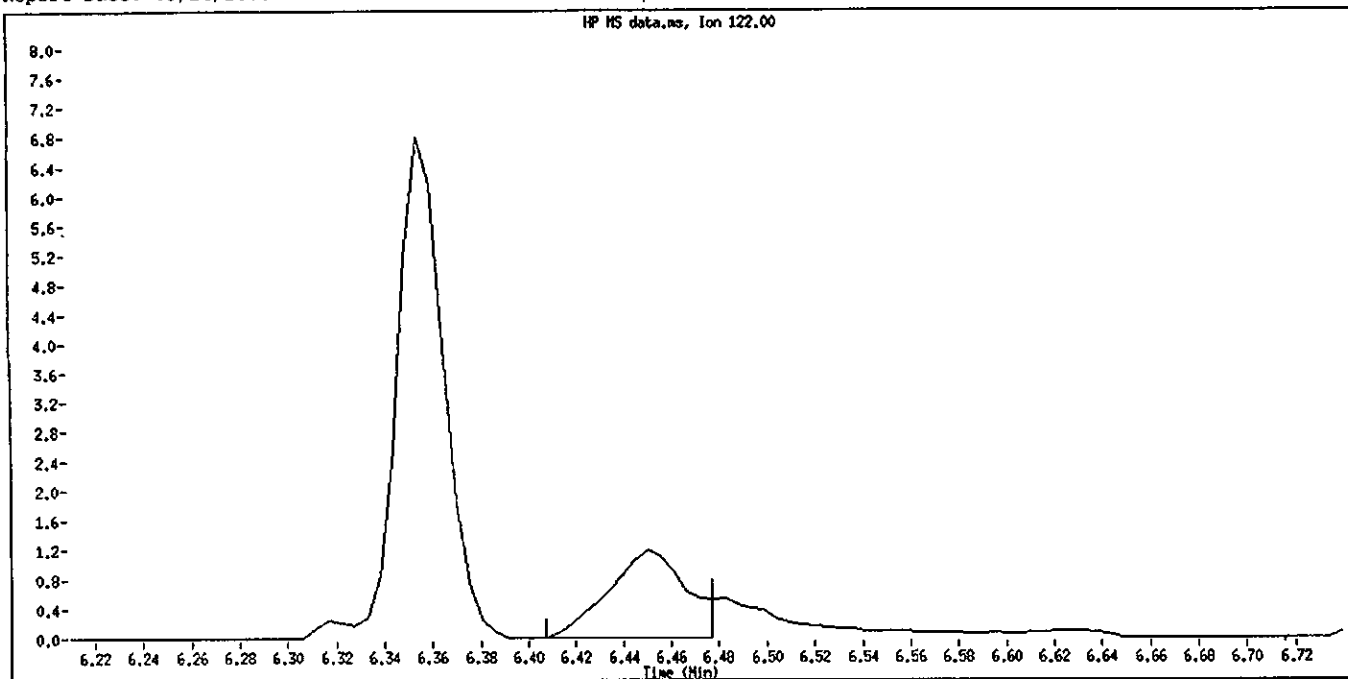
Manual Integration

Manually Integrated By Bachas

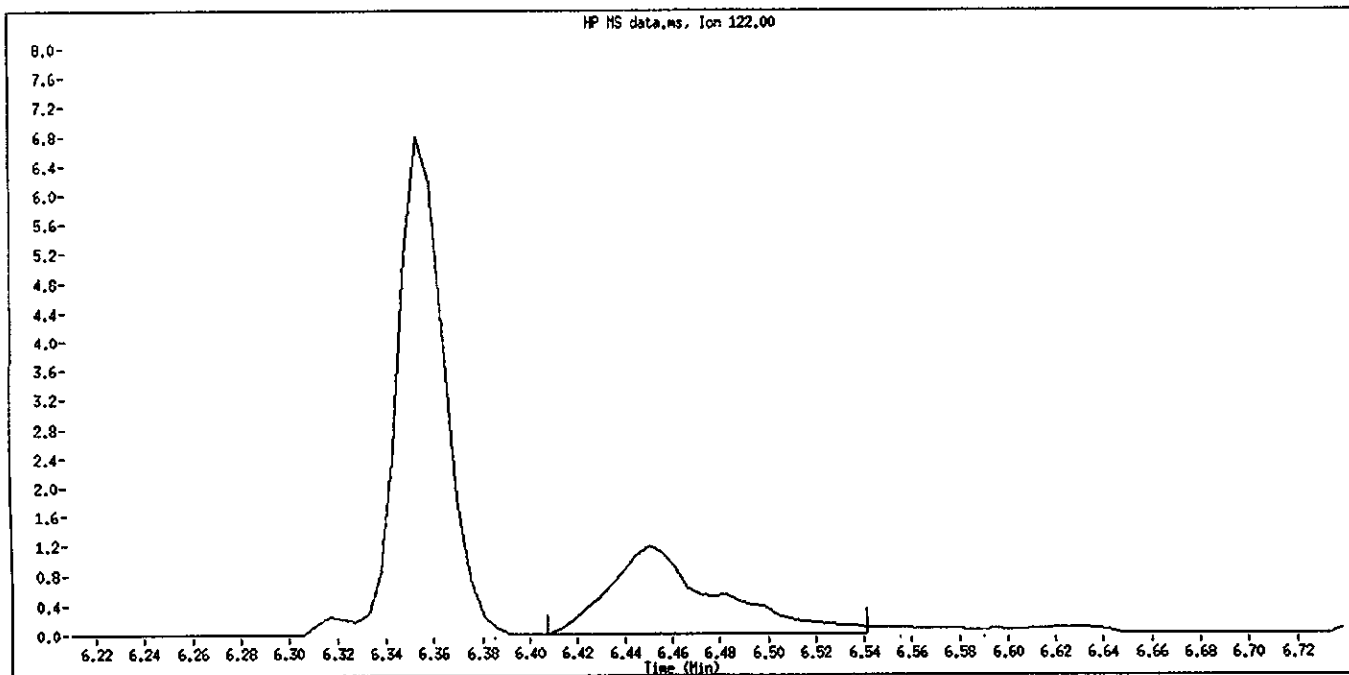
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Data File Name: S0823CC1.D
Inj Date and Time: 23-AUG-2000 20:09
Instrument ID: 71.1
Client ID: SST20
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 08/24/2000

669 243

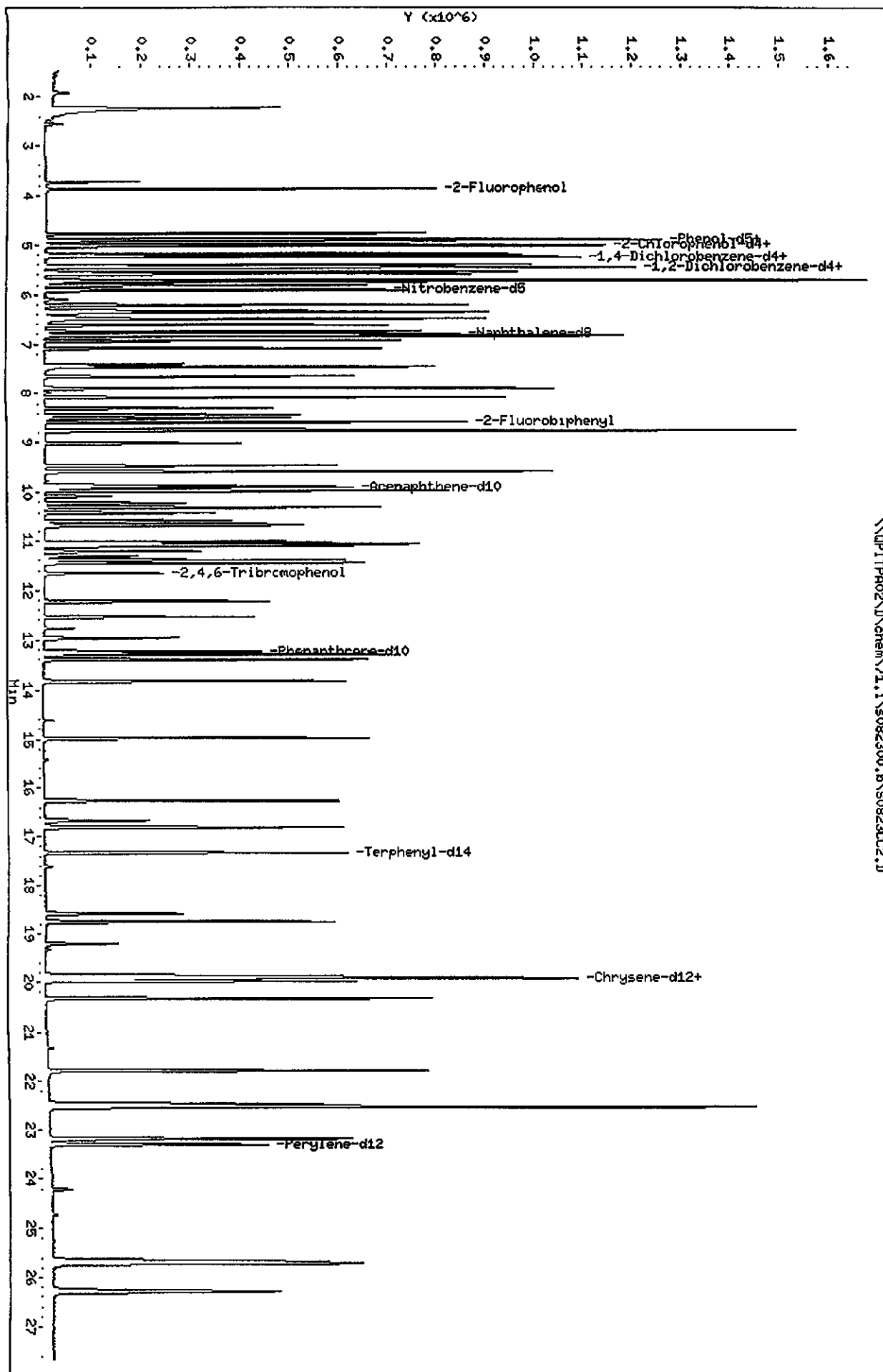


Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown



Data File: \\QPITPA02\chem\71.1\5082300.b\50823002.D
Date : 23-MAR-2000 19:35
Client ID: S81D50
Sample Info: std50(25 ug/ml) 194-183-7 8270/cip
Column phase: Hp5-MS

Instrument: 71.1
Operator: O48183
Column diameter: 0.25

\\QPITPA02\chem\71.1\5082300.b\50823002.D

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

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STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823CC2.D
Lab Smp Id: sstd50 Client Smp ID: SST50
Inj Date : 23-AUG-2000 19:35
Operator : 045183 Inst ID: 71.i
Smp Info : sstd50(25 ug/ml) 194-183-7 8270/clp
Misc Info : sstd50,s082300.b,8270clp.m,1-82701.sub,1,2
Comment :
Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
Meth Date : 24-Aug-2000 08:18 Bachas Quant Type: ISTD
Cal Date : 23-AUG-2000 19:35 Cal File: S0823CC2.D
Als bottle: 95 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT (ng)	ON-COL (ng)
*****	****	==	=====	=====	=====	=====	=====	=====
* 1 1,4-Dichlorobenzene-d4	152		5.227	5.227	(1.000)	147014	40.0000	
* 2 Naphthalene-d8	136		6.803	6.803	(1.000)	543040	40.0000	
* 3 Acenaphthene-d10	164		9.901	9.901	(1.000)	257929	40.0000	
* 4 Phenanthrene-d10	188		13.240	13.240	(1.000)	367100	40.0000	
* 5 Chrysene-d12	240		19.912	19.912	(1.000)	428185	40.0000	
* 6 Perylene-d12	264		23.288	23.288	(1.000)	372130	40.0000	
13 N-Nitrosodimethylamine	74		2.214	2.214	(0.424)	199238	50.0000	54.155 (M)
10 Pyridine	79		2.230	2.230	(0.427)	320458	50.0000	52.666 (M)
19 Methyl methanesulfonate	80		3.725	3.725	(0.713)	88248	50.0000	49.254
22 Aniline	93		4.917	4.917	(0.941)	407251	50.0000	53.012
23 Phenol	94		4.890	4.890	(0.936)	409065	50.0000	53.178
24 bis(2-Chloroethyl)ether	93		4.986	4.986	(0.954)	310085	50.0000	52.892
25 2-Chlorophenol	128		5.029	5.029	(0.962)	282237	50.0000	53.147
27 1,3-Dichlorobenzene	146		5.189	5.189	(0.993)	295255	50.0000	53.281
28 1,4-Dichlorobenzene	146		5.248	5.248	(1.004)	299280	50.0000	53.238
29 1,2-Dichlorobenzene	146		5.456	5.456	(1.044)	276927	50.0000	53.646
30 Benzyl Alcohol	108		5.403	5.403	(1.034)	204557	50.0000	51.453
31 2-Methylphenol	108		5.547	5.547	(1.061)	261037	50.0000	51.507
32 2,2'-oxybis(1-Chloropropane)	45		5.590	5.590	(1.069)	496591	50.0000	51.933
33 N-Nitroso-di-n-propylamine	70		5.750	5.750	(1.100)	215091	50.0000	50.265
35 4-Methylphenol	108		5.707	5.707	(1.092)	280909	50.0000	52.950
36 Hexachloroethane	117		5.814	5.814	(1.112)	110387	50.0000	52.970
39 Nitrobenzene	77		5.921	5.921	(0.870)	301197	50.0000	51.218
44 Isophorone	82		6.204	6.204	(0.912)	518667	50.0000	51.164
45 2-Nitrophenol	139		6.316	6.316	(0.929)	128057	50.0000	51.602
46 2,4-Dimethylphenol	107		6.354	6.354	(0.934)	249387	50.0000	51.166

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
47 bis(2-Chloroethoxy)methane	93	6.493	6.493	(0.954)	324295	50.0000	52.088
51 2,4-Dichlorophenol	162	6.616	6.616	(0.973)	189578	50.0000	51.481
52 Benzoic Acid	122	6.487	6.487	(0.954)	130175	50.0000	51.586
53 1,2,4-Trichlorobenzene	180	6.744	6.744	(0.991)	204249	50.0000	53.054
54 Naphthalene	128	6.829	6.829	(1.004)	772836	50.0000	52.996
55 4-Chloroaniline	127	6.931	6.931	(1.019)	299043	50.0000	51.972
59 Hexachlorobutadiene	225	7.091	7.091	(1.042)	111893	50.0000	53.249
62 4-Chloro-3-Methylphenol	107	7.657	7.657	(1.126)	204153	50.0000	49.836
65 2-Methylnaphthalene	142	7.892	7.892	(1.160)	473870	50.0000	52.294
66 1-Methylnaphthalene	142	8.079	8.079	(1.188)	441266	50.0000	51.929
67 Hexachlorocyclopentadiene	237	8.293	8.293	(0.838)	114963	50.0000	51.484
69 2,4,6-Trichlorophenol	196	8.427	8.427	(0.851)	120824	50.0000	52.447
70 2,4,5-Trichlorophenol	196	8.496	8.496	(0.858)	128370	50.0000	52.417
73 2-Chloronaphthalene	162	8.758	8.758	(0.885)	419421	50.0000	54.701
77 2-Nitroaniline	65	9.014	9.014	(0.910)	135661	50.0000	50.720
80 Dimethylphthalate	163	9.468	9.468	(0.956)	423764	50.0000	51.912
82 2,6-Dinitrotoluene	165	9.596	9.596	(0.969)	92076	50.0000	51.507
83 Acenaphthylene	152	9.580	9.580	(0.968)	621836	50.0000	53.194
85 3-Nitroaniline	138	9.864	9.864	(0.996)	109299	50.0000	51.013
86 Acenaphthene	153	9.965	9.965	(1.006)	379820	50.0000	52.598
87 2,4-Dinitrophenol	184	10.077	10.077	(1.018)	33658	50.0000	46.391
89 4-Nitrophenol	109	10.216	10.216	(1.032)	52590	50.0000	51.410
90 Dibenzofuran	168	10.307	10.307	(1.041)	528358	50.0000	52.743
91 2,4-Dinitrotoluene	165	10.419	10.419	(1.052)	111465	50.0000	51.012
95 2,3,5,6-Tetrachlorophenol	232	10.579	10.579	(1.069)	90480	50.0000	50.383
92 2,3,4,6-Tetrachlorophenol	232	10.676	10.676	(1.078)	95952	50.0000	51.708
96 2-Naphthylamine	143	10.654	10.654	(1.076)	294878	50.0000	58.772
97 Diethylphthalate	149	11.023	11.023	(1.113)	398144	50.0000	52.112
98 Fluorene	166	11.066	11.066	(1.118)	435276	50.0000	52.041
99 4-Chlorophenyl-phenylether	204	11.103	11.103	(1.121)	196648	50.0000	51.824
100 4-Nitroaniline	138	11.210	11.210	(1.132)	107689	50.0000	51.627
102 4,6-Dinitro-2-methylphenol	198	11.317	11.317	(0.855)	49077	50.0000	48.060
103 N-Nitrosodiphenylamine (1)	169	11.391	11.391	(0.860)	294072	50.0000	51.911
104 1,2-Diphenylhydrazine	77	11.456	11.456	(0.865)	513757	50.0000	53.122
112 4-Bromophenyl-phenylether	248	12.219	12.219	(0.923)	104844	50.0000	52.643
113 Hexachlorobenzene	284	12.529	12.529	(0.946)	112312	50.0000	52.748
117 Pentachlorophenol	266	12.962	12.962	(0.979)	62756	50.0000	50.102
122 Phenanthrene	178	13.299	13.299	(1.004)	552573	50.0000	52.737
123 Anthracene	178	13.405	13.405	(1.013)	565113	50.0000	52.024
126 Carbazole	167	13.838	13.838	(1.045)	534164	50.0000	51.980
130 Di-n-Butylphthalate	149	14.981	14.981	(1.132)	605588	50.0000	51.545
135 Fluoranthene	202	16.258	16.258	(1.228)	543909	50.0000	51.028
136 Benzidine	184	16.669	16.669	(0.837)	187005	50.0000	54.110
137 Pyrene	202	16.803	16.803	(0.844)	555860	50.0000	51.598
144 Butylbenzylphthalate	149	18.737	18.737	(0.941)	249081	50.0000	51.236
149 3,3'-Dichlorobenzidine	252	19.912	19.912	(1.000)	254801	50.0000	52.055
150 Benzo(a)Anthracene	228	19.869	19.869	(0.998)	551499	50.0000	51.080

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

Page 3

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	****	**	*****	*****	*****	*****	*****
151 Chrysene	228	19.976	19.976	(1.003)	520349	50.0000	50.740
153 bis(2-ethylhexyl)Phthalate	149	20.313	20.313	(1.020)	358272	50.0000	50.537
155 Di-n-octylphthalate	149	21.787	21.787	(0.936)	631668	50.0000	50.349
157 Benzo(b)fluoranthene	252	22.460	22.460	(0.964)	595916	50.0000	49.095 (H)
158 Benzo(k)fluoranthene	252	22.524	22.524	(0.967)	762084	50.0000	53.116
159 7,12-dimethylbenz[a]anthracen	256	22.524	22.524	(0.967)	326305	50.0000	51.420
167 Benzo(a)pyrene	252	23.165	23.165	(0.995)	567428	50.0000	50.189
169 Indeno(1,2,3-cd)pyrene	276	25.655	25.655	(1.102)	775573	50.0000	48.986
170 Dibenz(a,h)anthracene	278	25.703	25.703	(1.104)	703558	50.0000	48.341
171 Benzo(g,h,i)perylene	276	26.285	26.285	(1.129)	633013	50.0000	48.614
\$ 172 Nitrobenzene-d5	82	5.900	5.900	(0.867)	294672	50.0000	51.577
\$ 173 2-Fluorobiphenyl	172	8.581	8.581	(0.867)	450370	50.0000	52.980
\$ 174 Terphenyl-d14	244	17.327	17.327	(0.870)	451589	50.0000	51.278
\$ 175 Phenol-d5	99	4.879	4.879	(0.934)	371300	50.0000	52.957
\$ 176 2-Fluorophenol	112	3.870	3.870	(0.740)	285775	50.0000	53.497
\$ 177 2,4,6-Tribromophenol	330	11.659	11.659	(0.881)	54557	50.0000	51.802
\$ 178 2-Chlorophenol-d4	132	5.013	5.013	(0.959)	247994	50.0000	53.004
\$ 179 1,2-Dichlorobenzene-d4	152	5.440	5.440	(1.041)	173270	50.0000	53.112

QC Flag Legend

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

669 248

Data File Name S0823CC2.D

Inj Date and Time: 23-AUG-2000 19.35

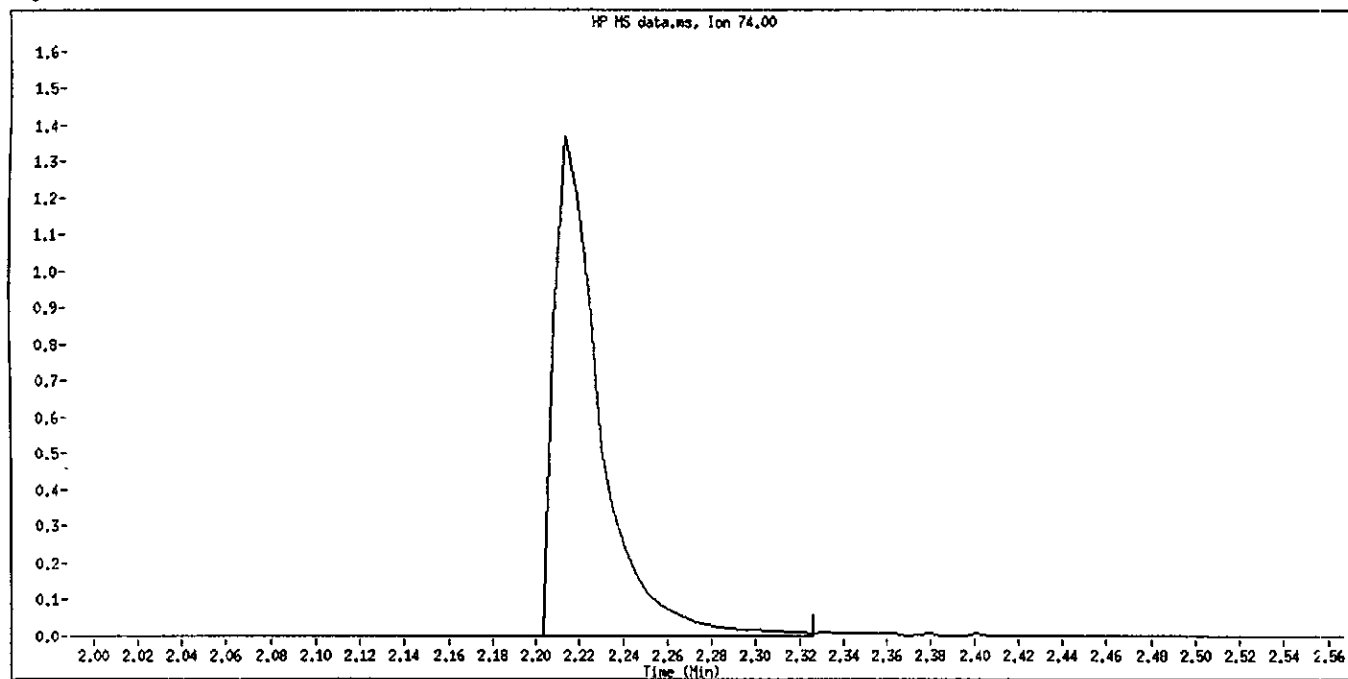
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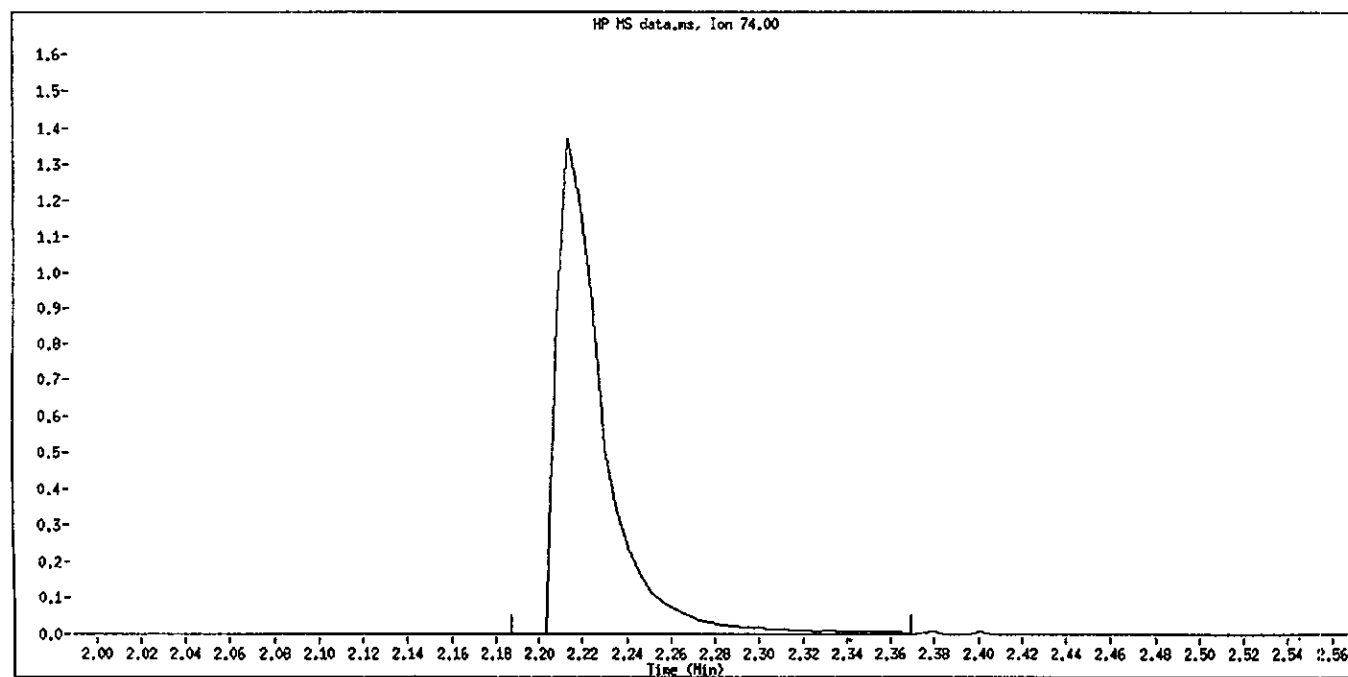
Compound Name: N-Nitrosodimethylamine

CAS # 62-75-9

Report Date: 08/24/2000



Original Integration



Manual Integration

Manually Integrated By BachaS

Manual Integration Reason: Poor Chromatography

Inj Date and Time: 23-AUG-2000 19:35

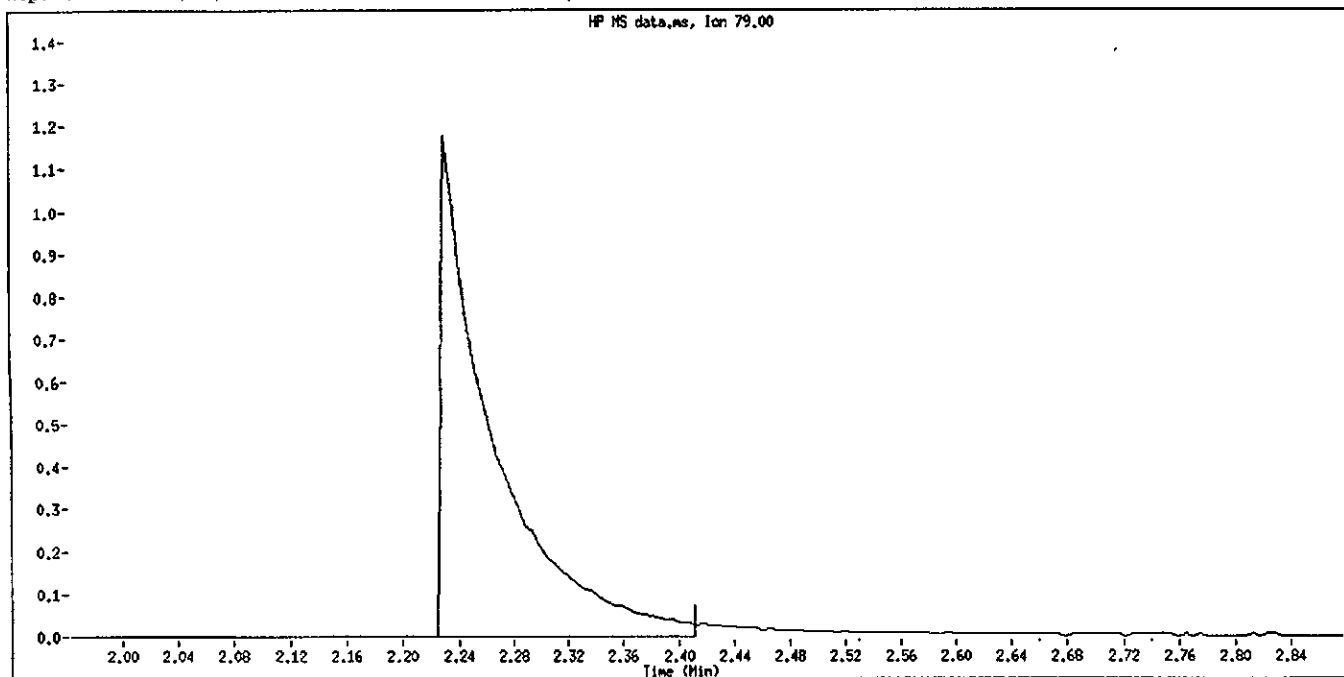
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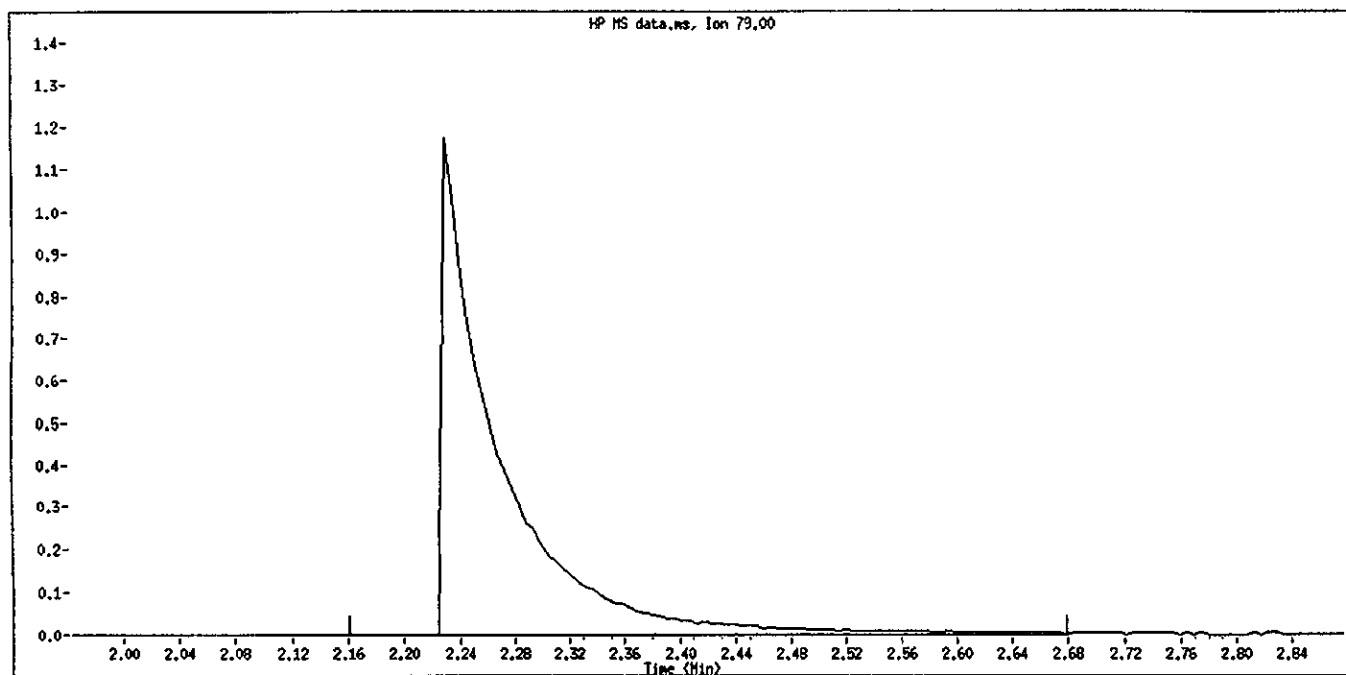
Compound Name: Pyridine

CAS #: 110-86-1

Report Date 08/24/2000



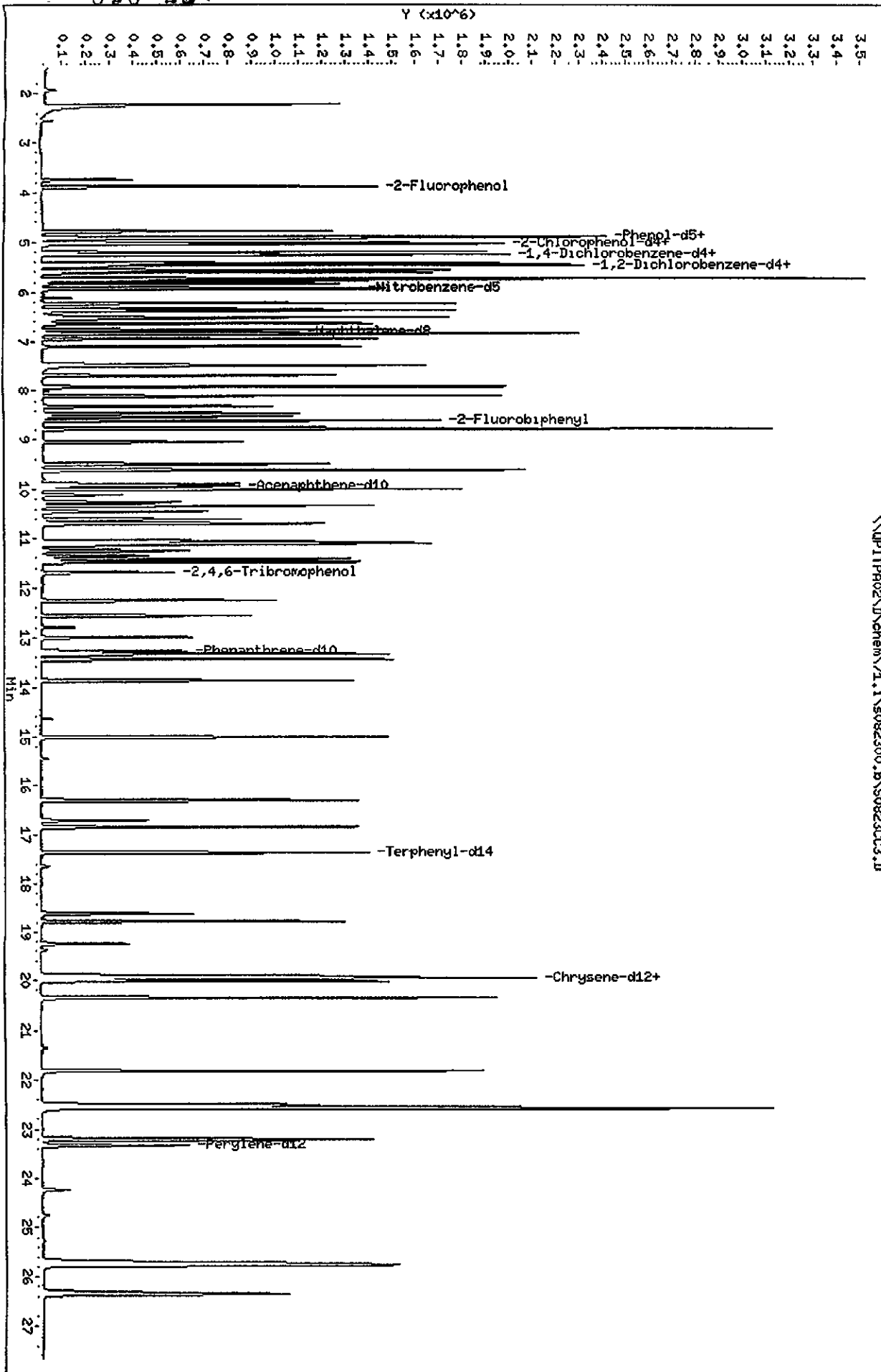
Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography



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 Client ID: SSTDB0
 Sample Info: sstdb0(40 ug/ml) 194-188-5 8270/cip
 Column phase: Hp5-MS

Instrument: 71.1
 Operator: 045183
 Column diameter: 0.25

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

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STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823CC3.D
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Inj Date : 23-AUG-2000 20:43
Operator : 045183 Inst ID: 71.i
Smp Info : sstd80(40 ug/ml) 194-188-5 8270/clp
Misc Info : sstd80,s082300.b,8270clp.m,1-82701.sub,1,3
Comment :
Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
Meth Date : 24-Aug-2000 08:20 Bachas Quant Type: ISTD
Cal Date : 23-AUG-2000 19:35 Cal File: S0823CC2.D
Als bottle: 96 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
* 1 1,4-Dichlorobenzene-d4	152	5.243	5.243	(1.000)	186770	40.0000	
* 2 Naphthalene-d8	136	6.824	6.824	(1.000)	702664	40.0000	
* 3 Acenaphthene-d10	164	9.928	9.928	(1.000)	354192	40.0000	
* 4 Phenanthrene-d10	188	13.272	13.272	(1.000)	527278	40.0000	
* 5 Chrysene-d12	240	19.945	19.945	(1.000)	638311	40.0000	
* 6 Perylene-d12	264	23.321	23.321	(1.000)	543249	40.0000	
13 N-Nitrosodimethylamine	74	2.219	2.219	(0.423)	391596	80.0000	83.783 (M)
10 Pyridine	79	2.225	2.225	(0.424)	649440	80.0000	84.013 (M)
19 Methyl methanesulfonate	80	3.737	3.737	(0.713)	184552	80.0000	81.079
22 Aniline	93	4.933	4.933	(0.941)	793341	80.0000	81.287
23 Phenol	94	4.912	4.912	(0.937)	795223	80.0000	81.374
24 bis(2-Chloroethyl)ether	93	5.003	5.003	(0.954)	595867	80.0000	80.004
25 2-Chlorophenol	128	5.051	5.051	(0.963)	541105	80.0000	80.204
27 1,3-Dichlorobenzene	146	5.206	5.206	(0.993)	560758	80.0000	79.653
28 1,4-Dichlorobenzene	146	5.264	5.264	(1.004)	569337	80.0000	79.720
29 1,2-Dichlorobenzene	146	5.473	5.473	(1.044)	527293	80.0000	80.403
30 Benzyl Alcohol	108	5.425	5.425	(1.035)	404754	80.0000	80.137 (M)
31 2-Methylphenol	108	5.564	5.564	(1.061)	512484	80.0000	79.596
32 2,2'-oxybis(1-Chloropropane)	45	5.606	5.606	(1.069)	966902	80.0000	79.594
33 N-Nitroso-di-n-propylamine	70	5.772	5.772	(1.101)	436318	80.0000	80.259
35 4-Methylphenol	108	5.729	5.729	(1.093)	552950	80.0000	82.043
38 Hexachloroethane	117	5.831	5.831	(1.112)	210796	80.0000	79.621
39 Nitrobenzene	77	5.943	5.943	(0.871)	609293	80.0000	80.073
44 Isophorone	82	6.226	6.226	(0.912)	1059392	80.0000	80.763
45 2-Nitrophenol	139	6.338	6.338	(0.929)	257791	80.0000	80.282
46 2,4-Dimethylphenol	107	6.376	6.376	(0.934)	499754	80.0000	79.240

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	====	==	=====	=====	=====	=====	=====	
47 bis (2-Chloroethoxy)methane	93	6.514	6.514	(0.955)	648026	80.0000	80.441	
51 2,4-Dichlorophenol	162	6.637	6.637	(0.973)	380236	80.0000	79.799	
52 Benzoic Acid	122	6.541	6.541	(0.959)	282105	80.0000	86.397	
53 1,2,4-Trichlorobenzene	180	6.766	6.766	(0.991)	394073	80.0000	79.107	
54 Naphthalene	128	6.851	6.851	(1.004)	1501076	80.0000	79.551	
55 4-Chloroaniline	127	6.953	6.953	(1.019)	593293	80.0000	79.687	
59 Hexachlorobutadiene	225	7.113	7.113	(1.042)	214443	80.0000	78.868	
62 4-Chloro-3-Methylphenol	107	7.684	7.684	(1.126)	422435	80.0000	79.694	
65 2-Methylnaphthalene	142	7.914	7.914	(1.160)	939196	80.0000	80.100	
66 1-Methylnaphthalene	142	8.101	8.101	(1.187)	881098	80.0000	80.134	
67 Hexachlorocyclopentadiene	237	8.315	8.315	(0.838)	241273	80.0000	78.683	
69 2,4,6-Trichlorophenol	196	8.454	8.454	(0.851)	248416	80.0000	78.526	
70 2,4,5-Trichlorophenol	196	8.523	8.523	(0.858)	262843	80.0000	78.157	
73 2-Chloronaphthalene	162	8.785	8.785	(0.885)	838464	80.0000	79.633	
77 2-Nitroaniline	65	9.047	9.047	(0.911)	291655	80.0000	79.407	
80 Dimethylphthalate	163	9.495	9.495	(0.956)	884513	80.0000	78.906	
82 2,6-Dinitrotoluene	165	9.624	9.624	(0.969)	198463	80.0000	80.847	
83 Acenaphthylene	152	9.608	9.608	(0.968)	1283082	80.0000	79.929	
85 3-Nitroaniline	138	9.896	9.896	(0.997)	234641	80.0000	79.750	
86 Acenaphthene	153	9.998	9.998	(1.007)	789523	80.0000	79.619	
87 2,4-Dinitrophenol	184	10.110	10.110	(1.018)	81576	80.0000	81.878	
89 4-Nitrophenol	109	10.254	10.254	(1.033)	112925	80.0000	80.389	
90 Dibenzofuran	168	10.334	10.334	(1.041)	1084569	80.0000	78.842	
91 2,4-Dinitrotoluene	165	10.452	10.452	(1.053)	240272	80.0000	80.075	
95 2,3,5,6-Tetrachlorophenol	232	10.607	10.607	(1.068)	195688	80.0000	79.352	
92 2,3,4,6-Tetrachlorophenol	232	10.708	10.708	(1.079)	202182	80.0000	79.342	
96 2-Naphthylamine	143	10.687	10.687	(1.076)	523128	80.0000	75.928	
97 Diethylphthalate	149	11.050	11.050	(1.113)	835560	80.0000	79.641	
98 Fluorene	166	11.098	11.098	(1.118)	911871	80.0000	79.392	
99 4-Chlorophenyl-phenylether	204	11.130	11.130	(1.121)	412638	80.0000	79.191	
100 4-Nitroaniline	138	11.253	11.253	(1.133)	230000	80.0000	80.296	
102 4,6-Dinitro-2-methylphenol	198	11.354	11.354	(0.856)	120928	80.0000	82.448	
103 N-Nitrosodiphenylamine (1)	169	11.419	11.419	(0.860)	638652	80.0000	78.490	
104 1,2-Diphenylhydrazine	77	11.483	11.483	(0.865)	1068208	80.0000	76.899	
112 4-Bromophenyl-phenylether	248	12.247	12.247	(0.923)	221729	80.0000	77.512	
113 Hexachlorobenzene	284	12.562	12.562	(0.946)	240936	80.0000	78.782	
117 Pentachlorophenol	266	12.994	12.994	(0.979)	147703	80.0000	82.099	
122 Phenanthrene	178	13.331	13.331	(1.004)	1185184	80.0000	78.751	
123 Anthracene	178	13.438	13.438	(1.012)	1237014	80.0000	79.285	
126 Carbazole	167	13.871	13.871	(1.045)	1164089	80.0000	78.867	
130 Di-n-Butylphthalate	149	15.008	15.008	(1.131)	1356794	80.0000	80.402	
135 Fluoranthene	202	16.291	16.291	(1.227)	1220019	80.0000	79.687	
136 Benzidine	184	16.697	16.697	(0.837)	390465	80.0000	75.788	
137 Pyrene	202	16.835	16.835	(0.844)	1238694	80.0000	77.131	
144 Butylbenzylphthalate	149	18.769	18.769	(0.941)	563475	80.0000	77.751	
149 3,3'-Dichlorobenzidine	252	19.945	19.945	(1.000)	594534	80.0000	81.477	
150 Benzo(a)Anthracene	228	19.907	19.907	(0.998)	1277844	80.0000	79.394	

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

QC Flag Legend

M - Compound response manually integrated.

669 254

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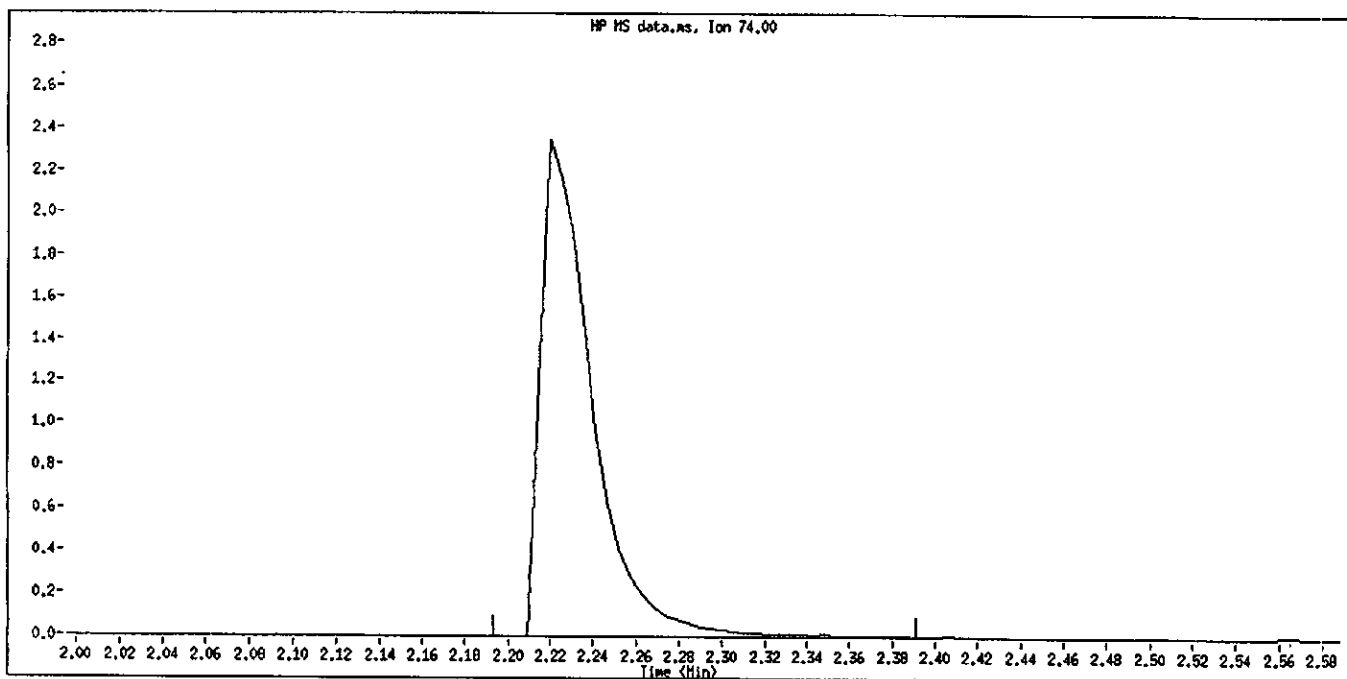
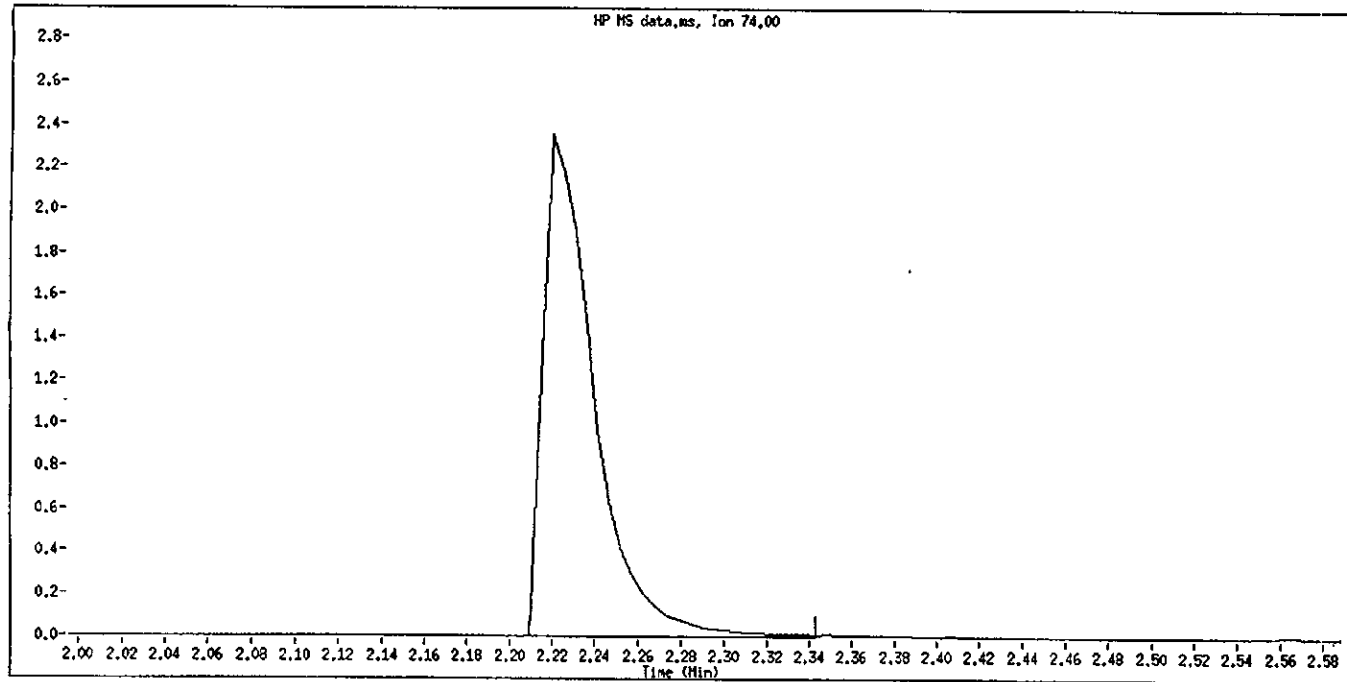
Instrument ID. 71 i

Client ID. SST080

Compound Name. N-Nitrosodimethylamine

CAS # 62-75-9

Report Date 08/24/2000

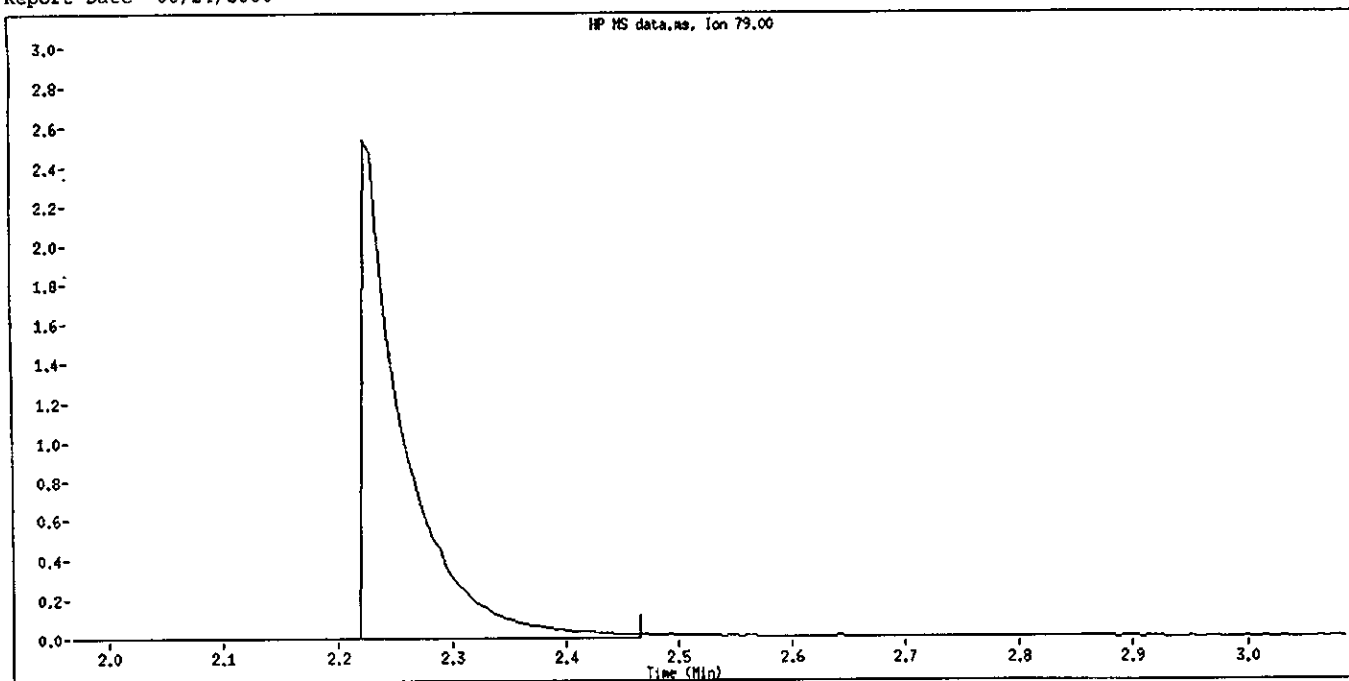


Manually Integrated By. Bachas

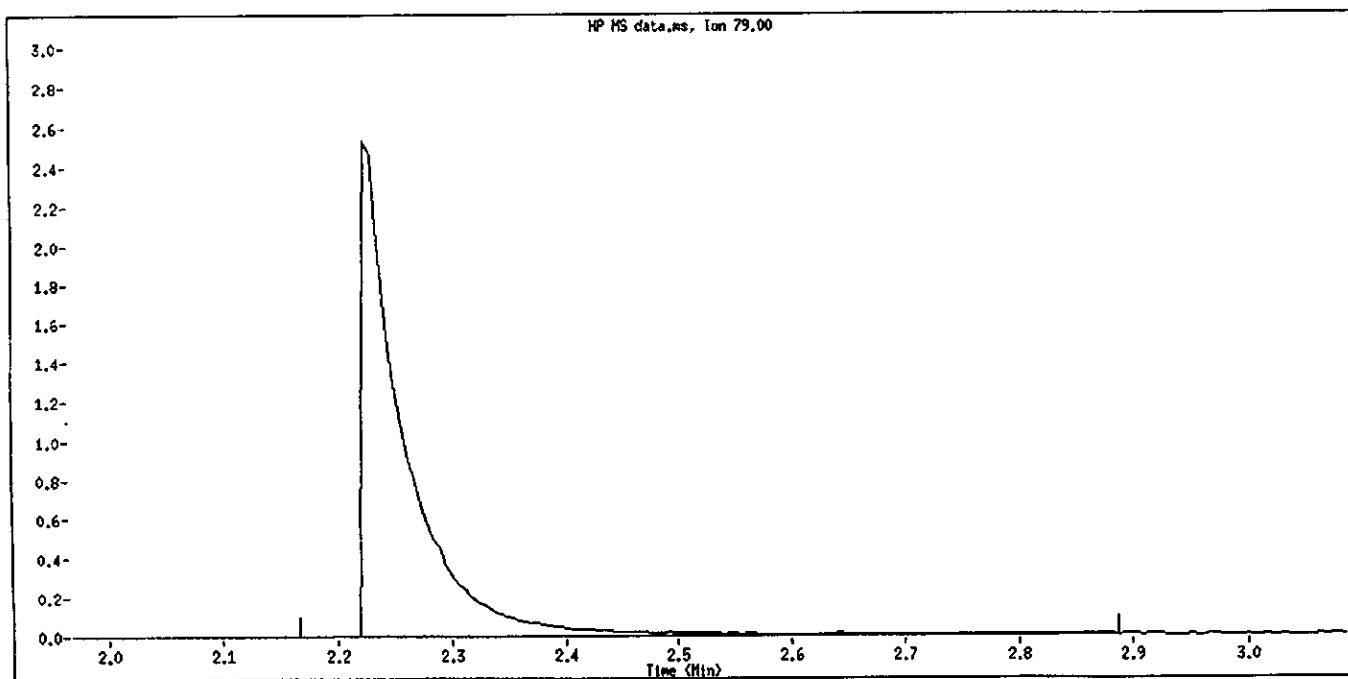
Manual Integration Reason. Poor Chromatography

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Inj. Date and Time. 23-AUG-2000 20:43
Instrument ID 71.1
Client ID: SST080
Compound Name. Pyridine
CAS #: 110-86-1
Report Date: 08/24/2000

669 255



Original Integration



Manual Integration

Manually Integrated By BachaS
Manual Integration Reason Poor Chromatography

669 256

Data File Name S0823CC3.D

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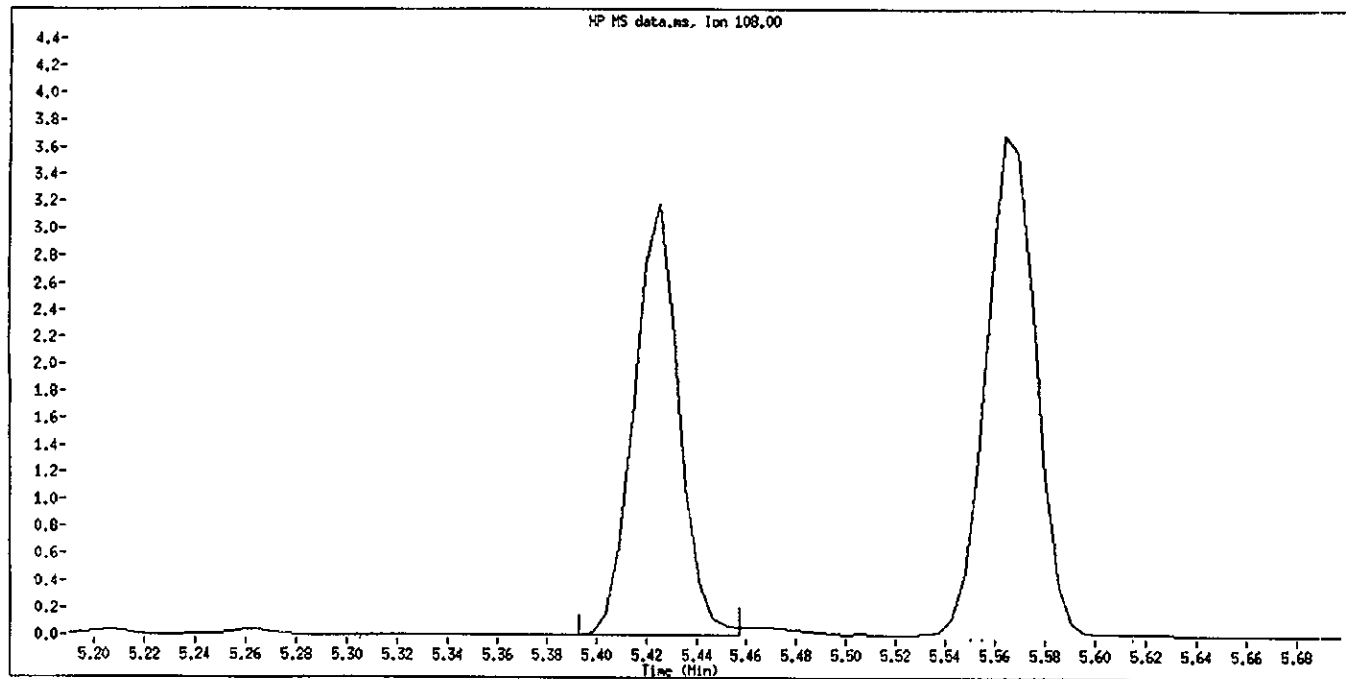
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Client ID SST080

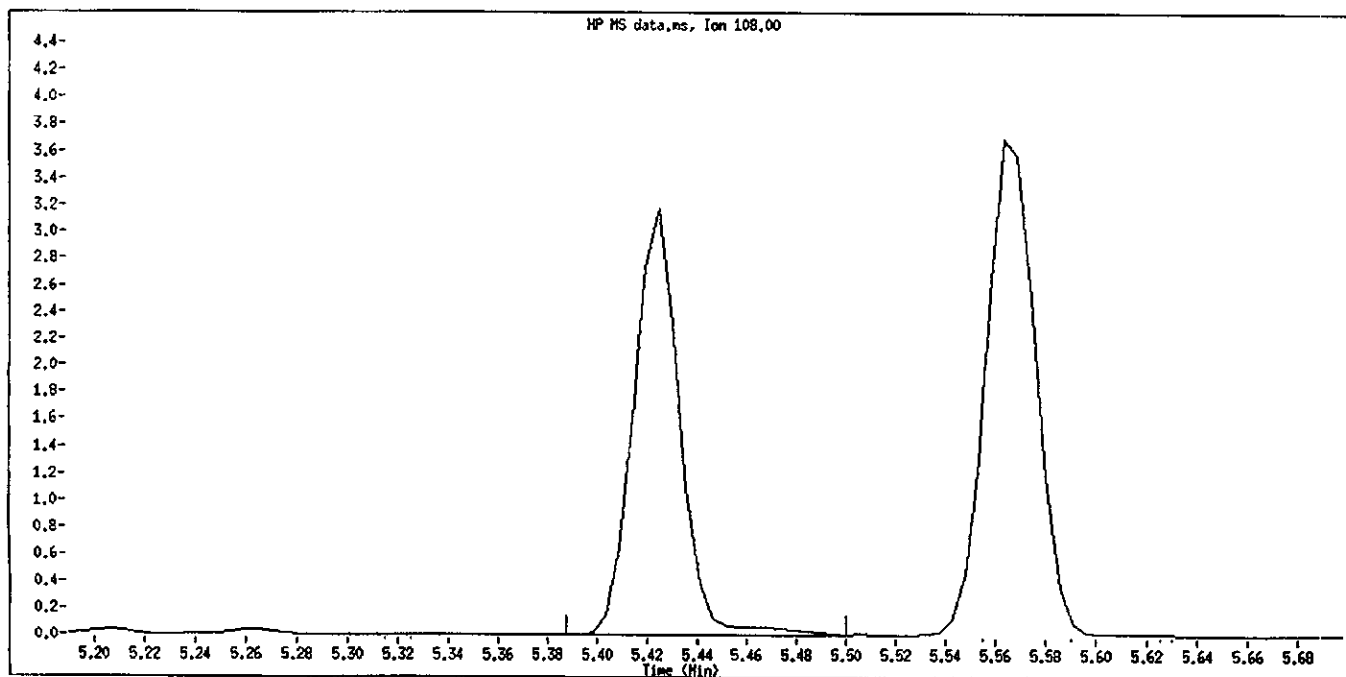
Compound Name: Benzyl Alcohol

CAS # 100-51-6

Report Date 08/24/2000



Original Integration



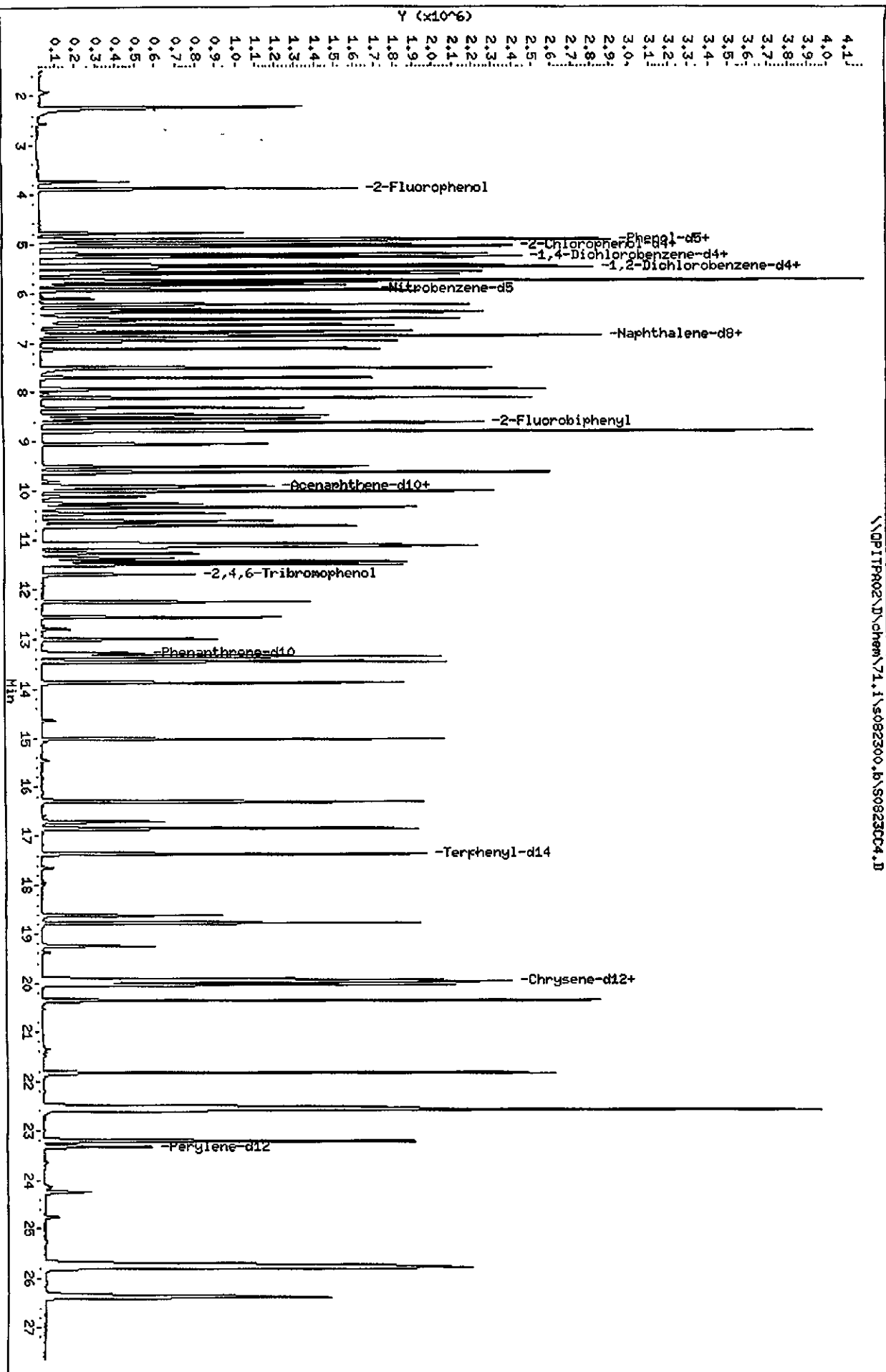
Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

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Client ID: SST120
Sample Info: sstd20060 ug/ml 194-188-6 8270/cip
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



669 258

Data File: \\QPITPA02\D\chem\71.i\s082300.b\S0823CC4.D
 Report Date: 24-Aug-2000 08:22

Page 1

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823CC4.D
 Lab Smp Id: sstd120 Client Smp ID: SSTD120
 Inj Date : 23-AUG-2000 21:16
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd120(60 ug/ml) 194-188-6 8270/clp
 Misc Info : sstd120,s082300.b,8270clp.m,1-82701.sub,1,4
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
 Meth Date : 24-Aug-2000 08:21 Bachas Quant Type: ISTD
 Cal Date : 23-AUG-2000 19:35 Cal File: S0823CC2.D
 Als bottle: 97 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
* 1 1,4-Dichlorobenzene-d4	152	5.248	5.248	(1.000)	157907	40.0000	
* 2 Naphthalene-d8	136	6.824	6.824	(1.000)	596353	40.0000	
* 3 Acenaphthene-d10	164	9.933	9.933	(1.000)	301348	40.0000	
* 4 Phenanthrene-d10	188	13.278	13.278	(1.000)	452069	40.0000	
* 5 Chrysene-d12	240	19.955	19.955	(1.000)	592895	40.0000	
* 6 Perylene-d12	264	23.332	23.332	(1.000)	480138	40.0000	
13 N-Nitrosodimethylamine	74	2.230	2.230	(0.425)	483449	120.000	122.34 (M)
10 Pyridine	79	2.230	2.230	(0.425)	783361	120.000	119.86 (M)
19 Methyl methanesulfonate	80	3.742	3.742	(0.713)	233828	120.000	121.50
22 Aniline	93	4.933	4.933	(0.940)	990024	120.000	119.98
23 Phenol	94	4.917	4.917	(0.937)	999094	120.000	120.92
24 bis(2-Chloroethyl)ether	93	5.008	5.008	(0.954)	751020	120.000	119.27
25 2-Chlorophenol	128	5.051	5.051	(0.962)	684451	120.000	120.00
27 1,3-Dichlorobenzene	146	5.206	5.206	(0.992)	709001	120.000	119.12
28 1,4-Dichlorobenzene	146	5.264	5.264	(1.003)	718445	120.000	118.99
29 1,2-Dichlorobenzene	146	5.478	5.478	(1.044)	659706	120.000	118.98
30 Benzyl Alcohol	108	5.425	5.425	(1.034)	527491	120.000	123.53 (M)
31 2-Methylphenol	108	5.569	5.569	(1.061)	666491	120.000	122.44
32 2,2'-oxybis(1-Chloropropane)	45	5.606	5.606	(1.068)	1224314	120.000	119.20
33 N-Nitroso-di-n-propylamine	70	5.777	5.777	(1.101)	566254	120.000	123.20
35 4-Methylphenol	108	5.735	5.735	(1.093)	695398	120.000	122.04
38 Hexachloroethane	117	5.831	5.831	(1.111)	267265	120.000	119.40
39 Nitrobenzene	77	5.943	5.943	(0.871)	797110	120.000	123.43
44 Isophorone	82	6.231	6.231	(0.913)	1374865	120.000	123.50
45 2-Nitrophenol	139	6.338	6.338	(0.929)	340466	120.000	124.93
46 2,4-Dimethylphenol	107	6.381	6.381	(0.935)	662440	120.000	123.76

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.514	6.514	(0.955)	838330	120.000	122.62
51 2,4-Dichlorophenol	162	6.643	6.643	(0.973)	496739	120.000	122.83
52 Benzoic Acid	122	6.557	6.557	(0.961)	360957	120.000	130.25
53 1,2,4-Trichlorobenzene	180	6.766	6.766	(0.991)	505698	120.000	119.61
54 Naphthalene	128	6.856	6.856	(1.005)	1940846	120.000	121.19
55 4-Chloroaniline	127	6.953	6.953	(1.019)	776725	120.000	122.92
59 Hexachlorobutadiene	225	7.113	7.113	(1.042)	278390	120.000	120.64
62 4-Chloro-3-Methylphenol	107	7.695	7.695	(1.128)	568923	120.000	126.46
65 2-Methylnaphthalene	142	7.919	7.919	(1.160)	1226971	120.000	123.30
66 1-Methylnaphthalene	142	8.106	8.106	(1.188)	1153666	120.000	123.63
67 Hexachlorocyclopentadiene	237	8.315	8.315	(0.837)	325913	120.000	124.92
69 2,4,6-Trichlorophenol	196	8.459	8.459	(0.852)	335425	120.000	124.62
70 2,4,5-Trichlorophenol	196	8.528	8.528	(0.859)	358927	120.000	125.44
73 2-Chloronaphthalene	162	8.790	8.790	(0.885)	1082143	120.000	120.80
77 2-Nitroaniline	65	9.052	9.052	(0.911)	397029	120.000	127.05
80 Dimethylphthalate	163	9.501	9.501	(0.956)	1198132	120.000	125.63
82 2,6-Dinitrotoluene	165	9.629	9.629	(0.969)	272798	120.000	130.62
83 Acenaphthylene	152	9.613	9.613	(0.968)	1696504	120.000	124.22
85 3-Nitroaniline	138	9.901	9.901	(0.997)	323517	120.000	129.24
86 Acenaphthene	153	10.003	10.003	(1.007)	1045639	120.000	123.94
87 2,4-Dinitrophenol	184	10.115	10.115	(1.018)	123856	120.000	146.11
89 4-Nitrophenol	109	10.265	10.265	(1.033)	156478	120.000	130.93
90 Dibenzofuran	168	10.339	10.339	(1.041)	1449197	120.000	123.82
91 2,4-Dinitrotoluene	165	10.462	10.462	(1.053)	337373	120.000	132.15
95 2,3,5,6-Tetrachlorophenol	232	10.612	10.612	(1.068)	276370	120.000	131.72
92 2,3,4,6-Tetrachlorophenol	232	10.713	10.713	(1.079)	282483	120.000	130.29
96 2-Naphthylamine	143	10.692	10.692	(1.076)	651279	120.000	111.10
97 Diethylphthalate	149	11.055	11.055	(1.113)	1133771	120.000	127.02
98 Fluorene	166	11.103	11.103	(1.118)	1239391	120.000	126.83
99 4-Chlorophenyl-phenylether	204	11.135	11.135	(1.121)	558056	120.000	125.88
100 4-Nitroaniline	138	11.269	11.269	(1.134)	315051	120.000	129.28
102 4,6-Dinitro-2-methylphenol	198	11.365	11.365	(0.856)	179570	120.000	142.80
103 N-Nitrosodiphenylamine (1)	169	11.429	11.429	(0.861)	870276	120.000	124.75
104 1,2-Diphenylhydrazine	77	11.493	11.493	(0.866)	1454542	120.000	122.13
112 4-Bromophenyl-phenylether	248	12.252	12.252	(0.923)	307572	120.000	125.41
113 Hexachlorobenzene	284	12.567	12.567	(0.946)	328918	120.000	125.44
117 Pentachlorophenol	266	13.000	13.000	(0.979)	207110	120.000	134.27
122 Phenanthrene	178	13.336	13.336	(1.004)	1617692	120.000	125.37
123 Anthracene	178	13.443	13.443	(1.012)	1701102	120.000	127.17
126 Carbazole	167	13.876	13.876	(1.045)	1638396	120.000	129.47
130 Di-n-Butylphthalate	149	15.014	15.014	(1.131)	1889385	120.000	130.59
135 Fluoranthene	202	16.296	16.296	(1.227)	1723908	120.000	131.33
136 Benzidine	184	16.707	16.707	(0.837)	549468	120.000	114.82
137 Pyrene	202	16.846	16.846	(0.844)	1782389	120.000	119.49
144 Butylbenzylphthalate	149	18.775	18.775	(0.941)	823025	120.000	122.26
149 3,3'-Dichlorobenzidine	252	19.955	19.955	(1.000)	826272	120.000	121.91
150 Benzo(a)Anthracene	228	19.913	19.913	(0.998)	1835606	120.000	122.78

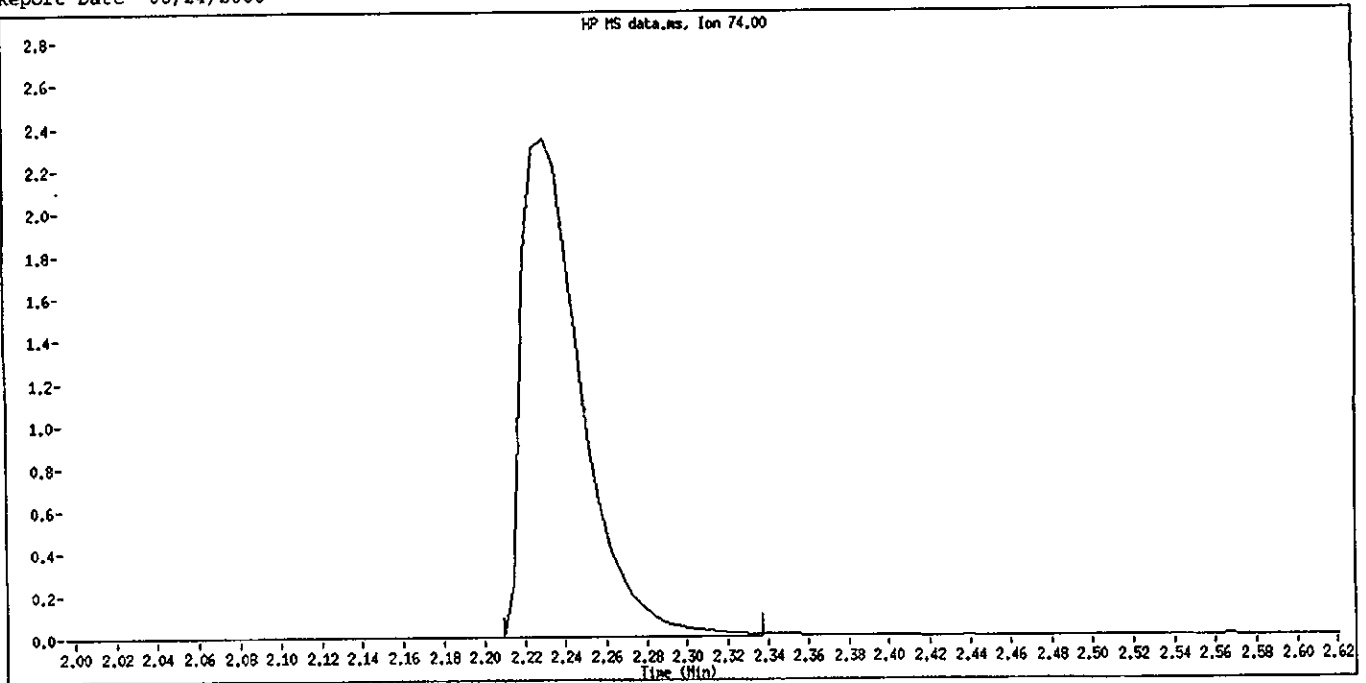
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	====	==	=====	=====	=====	=====	=====
151 Chrysene	228	20.025	20.025	(1.003)	1752991	120.000	123.45
153 bis(2-ethylhexyl)Phthalate	149	20.345	20.345	(1.020)	1227305	120.000	125.03
155 Di-n-octylphthalate	149	21.825	21.825	(0.935)	2134944	120.000	131.89
157 Benzo(b)fluoranthene	252	22.520	22.520	(0.965)	2046480	120.000	130.67
158 Benzo(k)fluoranthene	252	22.584	22.584	(0.968)	2461690	120.000	132.98
159 7,12-dimethylbenz(a)anthracen	256	22.584	22.584	(0.968)	1114477	120.000	136.12
167 Benzo(a)pyrene	252	23.219	23.219	(0.995)	1895581	120.000	129.95
169 Indeno(1,2,3-cd)pyrene	276	25.725	25.725	(1.103)	2718296	120.000	133.07
170 Dibenzo(a,h)anthracene	278	25.773	25.773	(1.105)	2560537	120.000	136.36
171 Benzo(g,h,i)perylene	276	26.371	26.371	(1.130)	2206169	120.000	131.31
\$ 172 Nitrobenzene-d5	82	5.922	5.922	(0.868)	767212	120.000	122.28
\$ 173 2-Fluorobiphenyl	172	8.614	8.614	(0.867)	1204978	120.000	121.33
\$ 174 Terphenyl-d14	244	17.364	17.364	(0.870)	1461376	120.000	119.84
\$ 175 Phenol-d5	99	4.901	4.901	(0.934)	906947	120.000	120.43
\$ 176 2-Fluorophenol	112	3.891	3.891	(0.741)	681114	120.000	118.71
\$ 177 2,4,6-Tribromophenol	330	11.696	11.696	(0.881)	168052	120.000	129.58
\$ 178 2-Chlorophenol-d4	132	5.035	5.035	(0.959)	600280	120.000	119.45
\$ 179 1,2-Dichlorobenzene-d4	152	5.462	5.462	(1.041)	416962	120.000	118.99

QC Flag Legend

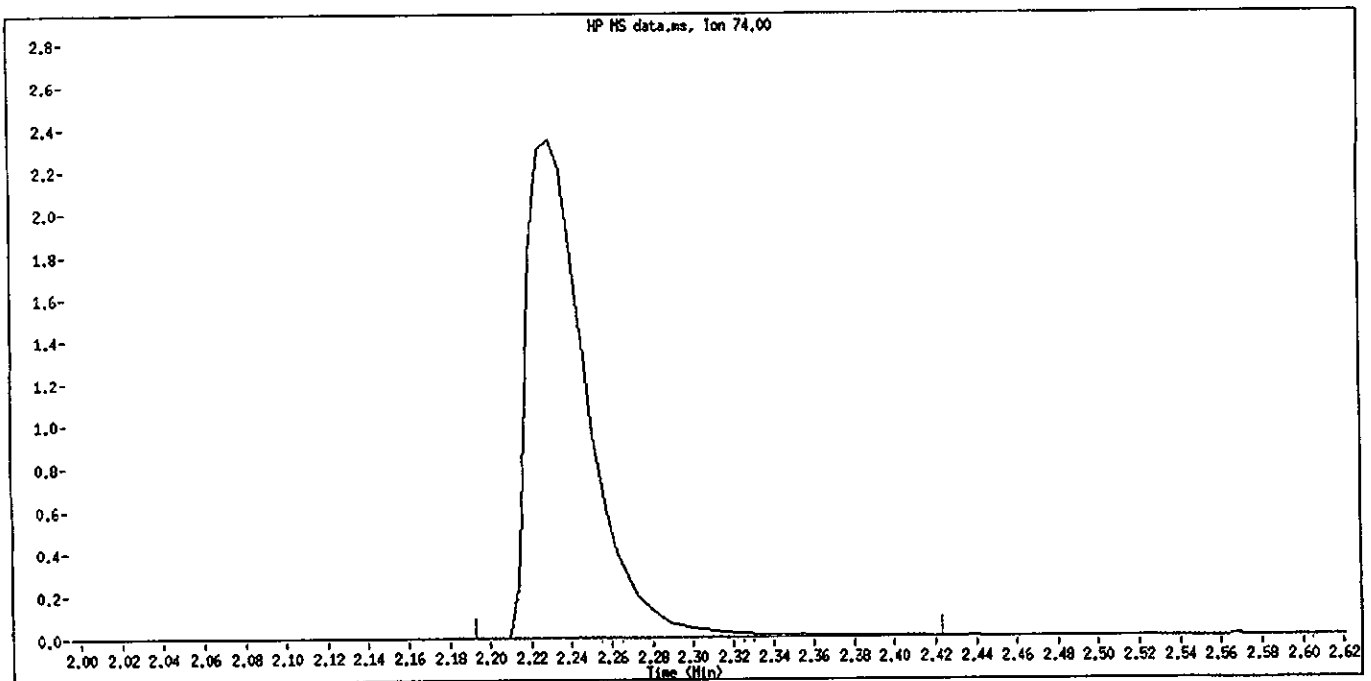
M - Compound response manually integrated.

Data File Name S0823CC4 D
Inj Date and Time 23-AUG-2000 21:16
Instrument ID 71 i
Client ID: SSTDI20
Compound Name N-Nitrosodimethylamine
CAS #. 62-75-9
Report Date 08/24/2000

669 261



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 262

Data File Name S0823CC4.D

Inj Date and Time: 23-AUG-2000 21:16

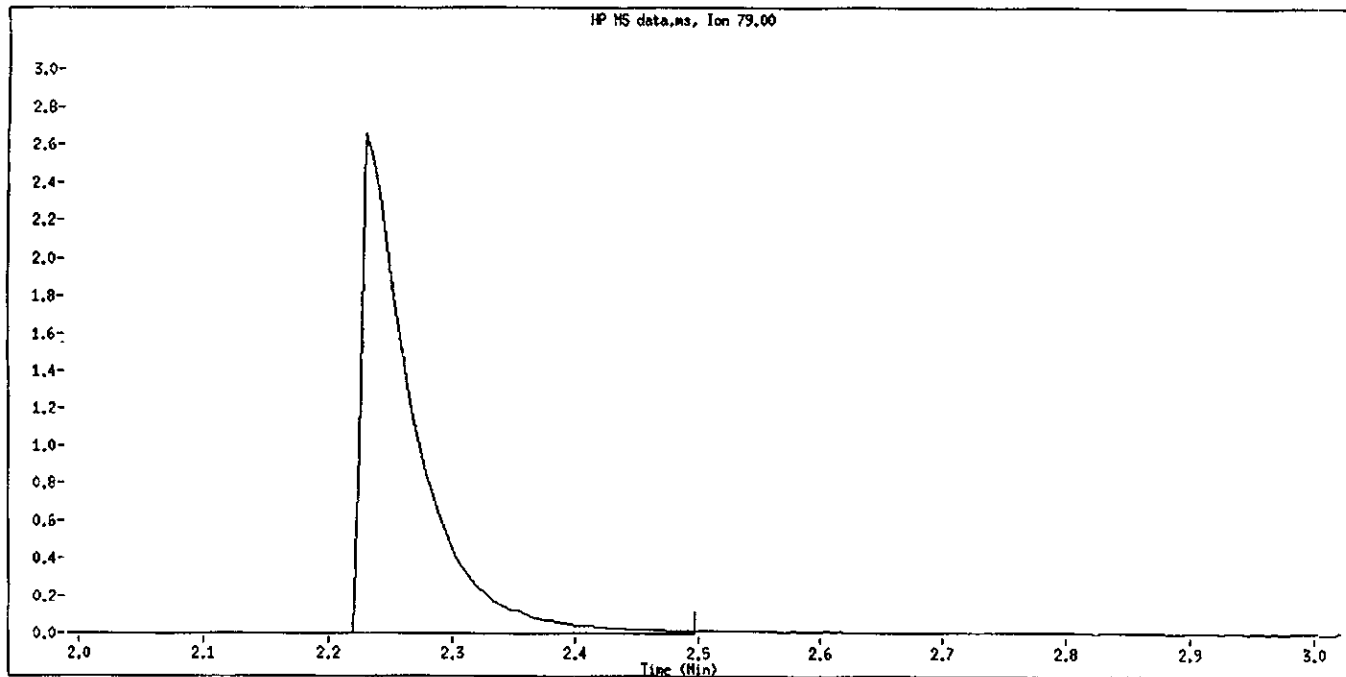
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Client ID: SSTD120

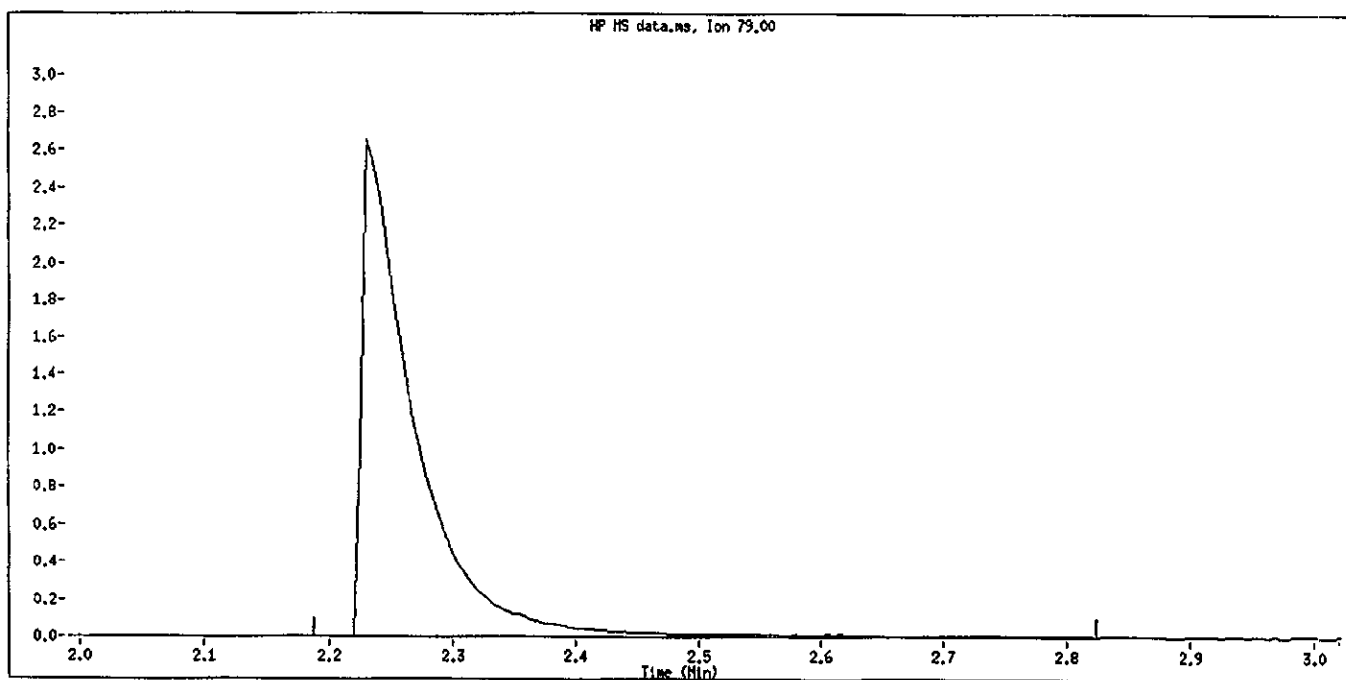
Compound Name: Pyridine

CAS # 110-86-1

Report Date: 08/24/2000



Original Integration



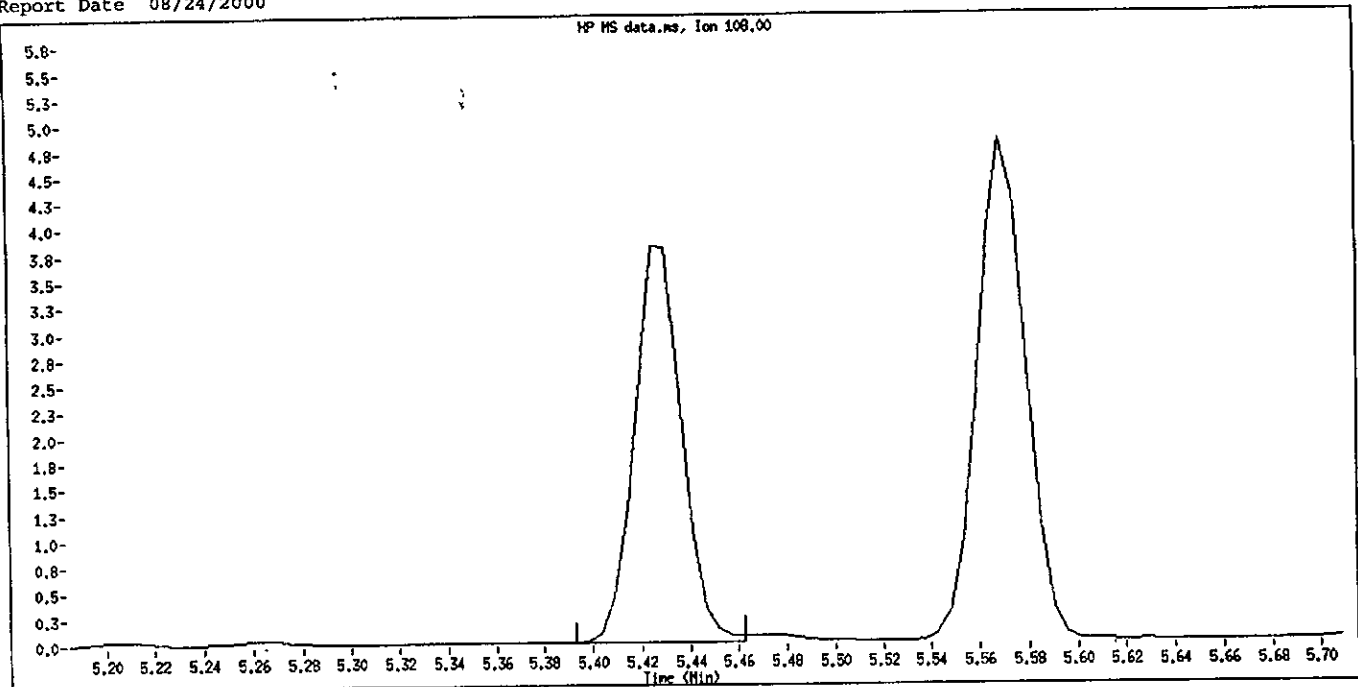
Manual Integration

Manually Integrated By BachaS

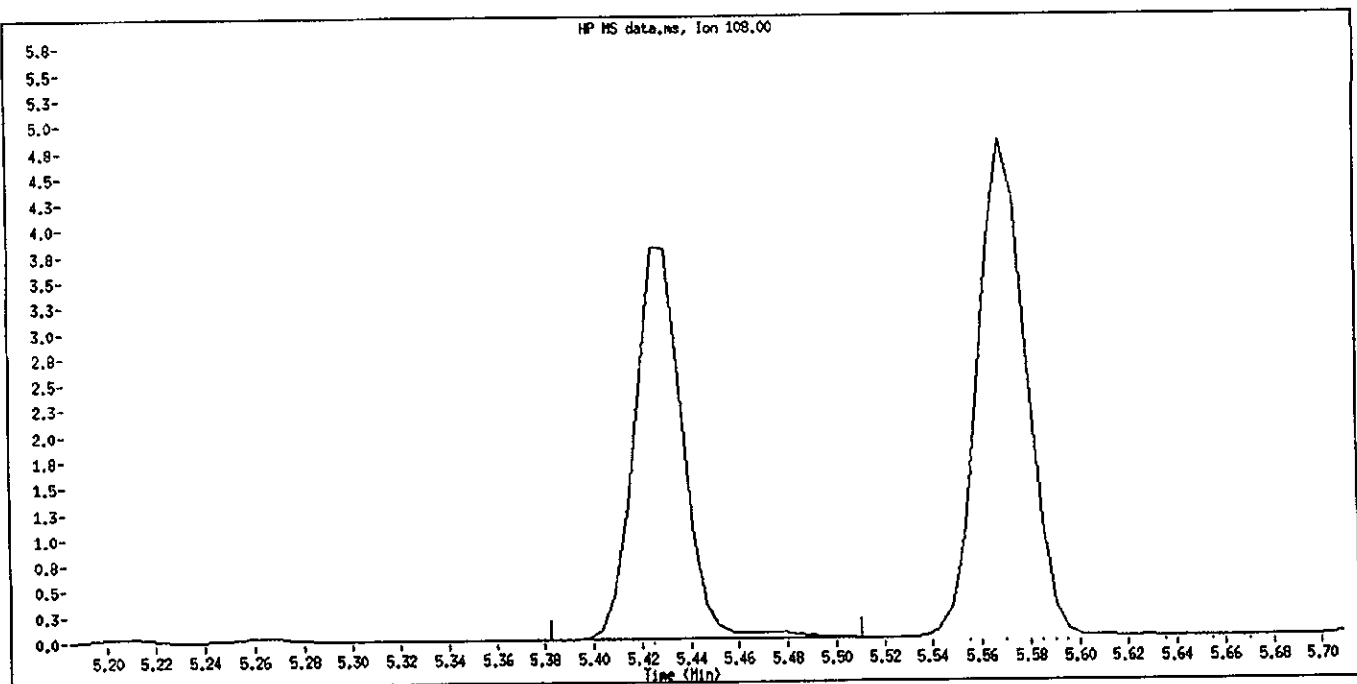
Manual Integration Reason: Poor Chromatography

Data File Name S0823CC4.D
Inj. Date and Time. 23-AUG-2000 21:16
Instrument ID: 71.1
Client ID SSTDI20
Compound Name Benzyl Alcohol
CAS # 100-51-6
Report Date 08/24/2000

669 263

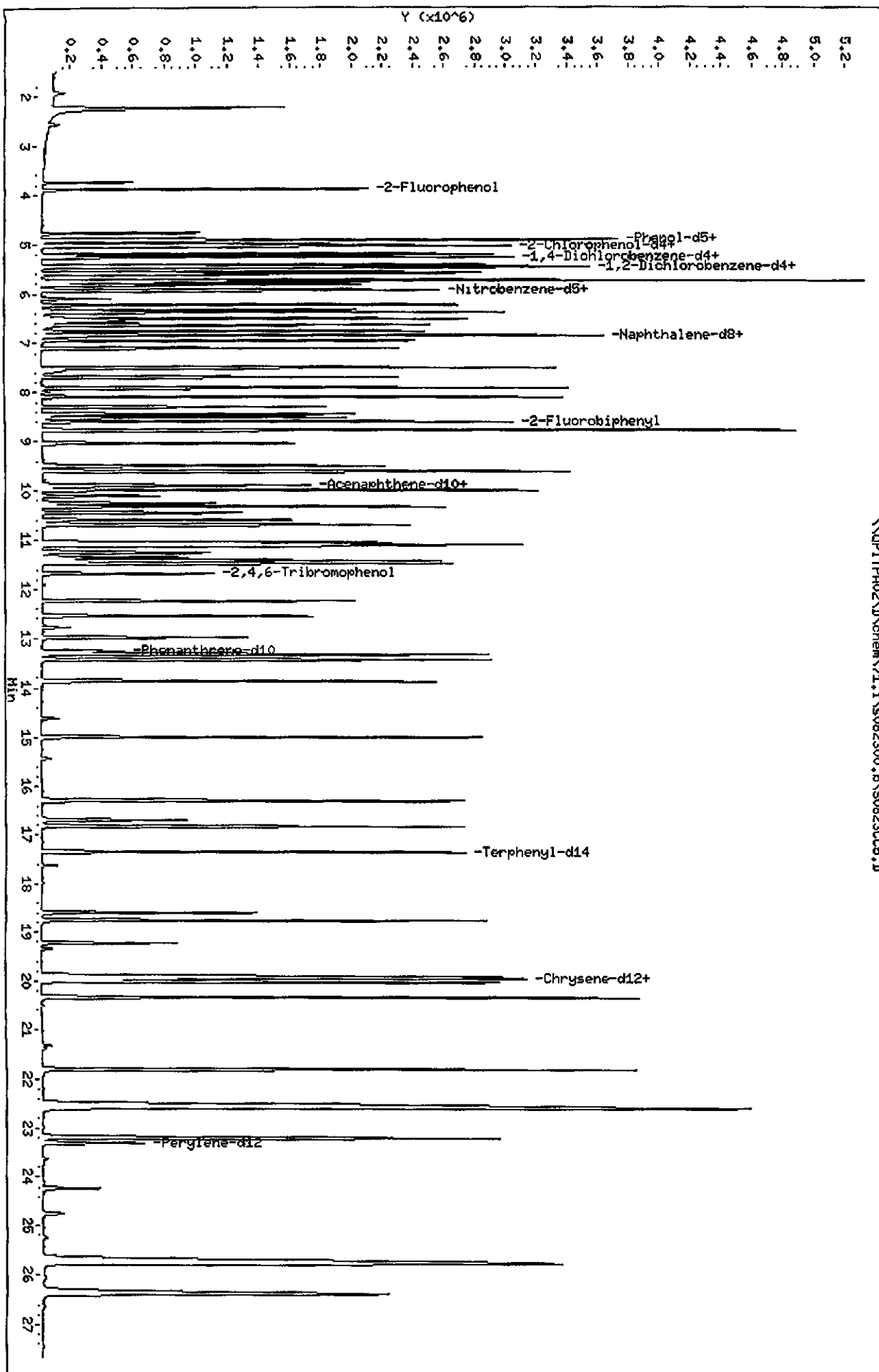


Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography



Data File: \\NPITPA02\N\chem\71.1\5082300.b\50823005.D
 Date: 23-AUG-2000 21:50
 Client ID: sstd160
 Sample Info: sstd160(80 ug/ml) 194-188-7 8276/olp
 Column phase: Hp5-MS

Instrument: 71.1
 Operator: 048183
 Column diameter: 0.25

\\NPITPA02\N\chem\71.1\5082300.b\50823005.D

STL - Pittsburgh

Semivolatiles REPORT SW-846 Method 8270
Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823CC5.D
Lab Smp Id: sstd160 Client Smp ID: sstd160
Inj Date : 23-AUG-2000 21:50
Operator : 045183 Inst ID: 71.i
Smp Info : sstd160(80 ug/ml) 194-188-7 8270/clp
Misc Info : sstd160,s082300.b,8270clp.m,1-82701.sub,1,5
Comment :
Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
Meth Date : 24-Aug-2000 08:47 BachaS Quant Type: ISTD
Cal Date : 23-AUG-2000 21:50 Cal File: S0823CC5.D
Als bottle: 98 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

SV/24/

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5.235	5.235	(1.000)	158484	40.0000	
* 2 Naphthalene-d8	136	6.811	6.811	(1.000)	617599	40.0000	
* 3 Acenaphthene-d10	164	9.910	9.910	(1.000)	324967	40.0000	
* 4 Phenanthrene-d10	188	13.259	13.259	(1.000)	477676	40.0000	
* 5 Chrysene-d12	240	19.937	19.937	(1.000)	667094	40.0000	
* 6 Perylene-d12	264	23.313	23.313	(1.000)	561940	40.0000	
13 N-Nitrosodimethylamine	74	2.228	2.228	(0.426)	562936	160.000	141.94 (M)
10 Pyridine	79	2.222	2.222	(0.425)	937416	160.000	142.92 (M)
19 Methyl methanesulfonate	80	3.734	3.734	(0.713)	313330	160.000	162.22 (A)
22 Aniline	93	4.925	4.925	(0.941)	1249284	160.000	150.85
23 Phenol	94	4.909	4.909	(0.938)	1250434	160.000	150.79
24 bis(2-Chloroethyl)ether	93	5.000	5.000	(0.955)	990841	160.000	156.78
25 2-Chlorophenol	128	5.043	5.043	(0.963)	885805	160.000	154.73
27 1,3-Dichlorobenzene	146	5.192	5.192	(0.992)	921491	160.000	154.25
28 1,4-Dichlorobenzene	146	5.251	5.251	(1.003)	935389	160.000	154.35
29 1,2-Dichlorobenzene	146	5.465	5.465	(1.044)	846528	160.000	152.12
30 Benzyl Alcohol	108	5.417	5.417	(1.035)	701275	160.000	163.63 (AM)
31 2-Methylphenol	108	5.561	5.561	(1.062)	894094	160.000	163.65 (A)
32 2,2'-oxybis(1-Chloropropane)	45	5.598	5.598	(1.069)	1636924	160.000	158.80
33 N-Nitroso-di-n-propylamine	70	5.769	5.769	(1.102)	780849	160.000	169.27 (A)
35 4-Methylphenol	108	5.727	5.727	(1.094)	874648	160.000	152.94
38 Hexachloroethane	117	5.817	5.817	(1.111)	356460	160.000	158.67
39 Nitrobenzene	77	5.935	5.935	(0.871)	1085687	160.000	162.33 (A)
44 Isophorone	82	6.223	6.223	(0.914)	1884181	160.000	163.42 (A)
45 2-Nitrophenol	139	6.325	6.325	(0.929)	469300	160.000	166.28 (A)
46 2,4-Dimethylphenol	107	6.368	6.368	(0.935)	908694	160.000	163.93 (A)

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
47 bis(2-Chloroethoxy)methane	93	6.507	6.507	(0.955)	1131106	160.000	159.74
51 2,4-Dichlorophenol	162	6.629	6.629	(0.973)	686448	160.000	163.90(A)
52 Benzoic Acid	122	6.571	6.571	(0.965)	525405	160.000	183.07(A)
53 1,2,4-Trichlorobenzene	180	6.752	6.752	(0.991)	687843	160.000	157.10
54 Naphthalene	128	6.843	6.843	(1.005)	2559878	160.000	154.35
55 4-Chloroaniline	127	6.939	6.939	(1.019)	1059491	160.000	161.90(A)
59 Hexachlorobutadiene	225	7.100	7.100	(1.042)	374409	160.000	156.67
62 4-Chloro-3-Methylphenol	107	7.682	7.682	(1.128)	801877	160.000	172.11(A)
65 2-Methylnaphthalene	142	7.906	7.906	(1.161)	1666147	160.000	161.67(A)
66 1-Methylnaphthalene	142	8.088	8.088	(1.187)	1562294	160.000	161.66(A)
67 Hexachlorocyclopentadiene	237	8.296	8.296	(0.837)	457379	160.000	162.57(A)
69 2,4,6-Trichlorophenol	196	8.446	8.446	(0.852)	463825	160.000	159.80
70 2,4,5-Trichlorophenol	196	8.515	8.515	(0.859)	497963	160.000	161.39(A)
73 2-Chloronaphthalene	162	8.772	8.772	(0.885)	1425934	160.000	147.61
77 2-Nitroaniline	65	9.039	9.039	(0.912)	573370	160.000	170.15(A)
80 Dimethylphthalate	163	9.488	9.488	(0.957)	1678052	160.000	163.16(A)
82 2,6-Dinitrotoluene	165	9.616	9.616	(0.970)	389112	160.000	172.76(A)
83 Acenaphthylene	152	9.594	9.594	(0.968)	2341592	160.000	158.99
85 3-Nitroaniline	138	9.888	9.888	(0.998)	470702	160.000	174.37(A)
86 Acenaphthene	153	9.984	9.984	(1.008)	1472016	160.000	161.79(A)
87 2,4-Dinitrophenol	184	10.102	10.102	(1.019)	194204	160.000	212.45(A)
89 4-Nitrophenol	109	10.257	10.257	(1.035)	223441	160.000	173.37(A)
90 Dibenzofuran	168	10.326	10.326	(1.042)	2047846	160.000	162.25(A)
91 2,4-Dinitrotoluene	165	10.449	10.449	(1.054)	487878	160.000	177.22(A)
95 2,3,5,6-Tetrachlorophenol	232	10.599	10.599	(1.070)	391311	160.000	172.95(A)
92 2,3,4,6-Tetrachlorophenol	232	10.700	10.700	(1.080)	396609	160.000	169.64(A)
96 2-Naphthylamine	143	10.679	10.679	(1.078)	872004	160.000	137.95
97 Diethylphthalate	149	11.042	11.042	(1.114)	1632012	160.000	169.54(A)
98 Fluorene	166	11.085	11.085	(1.119)	1767446	160.000	167.72(A)
99 4-Chlorophenyl-phenylether	204	11.117	11.117	(1.122)	798995	160.000	167.13(A)
100 4-Nitroaniline	138	11.261	11.261	(1.136)	459031	160.000	174.66(A)
102 4,6-Dinitro-2-methylphenol	198	11.357	11.357	(0.857)	274483	160.000	206.57(A)
103 N-Nitrosodiphenylamine (1)	169	11.416	11.416	(0.861)	1254604	160.000	170.20(A)
104 1,2-Diphenylhydrazine	77	11.475	11.475	(0.865)	2112309	160.000	167.85(A)
112 4-Bromophenyl-phenylether	248	12.233	12.233	(0.923)	442492	160.000	170.75(A)
113 Hexachlorobenzene	284	12.549	12.549	(0.946)	472512	160.000	170.55(A)
117 Pentachlorophenol	266	12.981	12.981	(0.979)	301246	160.000	184.83(A)
122 Phenanthrene	178	13.318	13.318	(1.004)	2318723	160.000	170.07(A)
123 Anthracene	178	13.425	13.425	(1.012)	2454796	160.000	173.68(A)
126 Carbazole	167	13.863	13.863	(1.046)	2359610	160.000	176.46(A)
130 Di-n-Butylphthalate	149	14.995	14.995	(1.131)	2716698	160.000	177.70(A)
135 Fluoranthene	202	16.277	16.277	(1.228)	2509278	160.000	180.92(A)
136 Benzidine	184	16.689	16.689	(0.837)	832914	160.000	154.69
137 Pyrene	202	16.828	16.828	(0.844)	2609675	160.000	155.49
144 Butylbenzylphthalate	149	18.756	18.756	(0.941)	1257178	160.000	165.99(A)
149 3,3'-Dichlorobenzidine	252	19.937	19.937	(1.000)	1205931	160.000	158.13
150 Benzo(a)Anthracene	228	19.899	19.899	(0.998)	2743986	160.000	163.13(A)

Compounds	QUANT SIG MASS					AMOUNTS	
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
151 Chrysene	228	20.012	20.012	(1.004)	2614704	160.000	163.65 (A)
153 bis(2-ethylhexyl)Phthalate	149	20.332	20.332	(1.020)	1843827	160.000	166.94 (A)
155 Di-n-octylphthalate	149	21.812	21.812	(0.936)	3281635	160.000	173.22 (A)
157 Benzo(b)fluoranthene	252	22.517	22.517	(0.966)	3537380	160.000	192.99 (A)
158 Benzo(k)fluoranthene	252	22.586	22.586	(0.969)	3121962	160.000	144.10
159 7,12-dimethylbenz[a]anthracene	256	22.576	22.576	(0.968)	1561556	160.000	162.96 (A)
167 Benzo(a)pyrene	252	23.206	23.206	(0.995)	3000220	160.000	175.73 (A)
169 Indeno(1,2,3-cd)pyrene	276	25.722	25.722	(1.103)	4278011	160.000	178.94 (A)
170 Dibenzo(a,h)anthracene	278	25.765	25.765	(1.105)	3967286	160.000	180.52 (A)
171 Benzo(g,h,i)perylene	276	26.369	26.369	(1.131)	3590272	160.000	182.59 (A)
\$ 172 Nitrobenzene-d5	82	5.914	5.914	(0.868)	1053665	160.000	162.16 (A)
\$ 173 2-Fluorobiphenyl	172	8.595	8.595	(0.867)	1651323	160.000	154.18
\$ 174 Terphenyl-d14	244	17.346	17.346	(0.870)	2118885	160.000	154.43
\$ 175 Phenol-d5	99	4.893	4.893	(0.935)	1158272	160.000	153.24
\$ 176 2-Fluorophenol	112	3.878	3.878	(0.741)	874004	160.000	151.77
\$ 177 2,4,6-Tribromophenol	330	11.678	11.678	(0.881)	238693	160.000	174.18 (A)
\$ 178 2-Chlorophenol-d4	132	5.027	5.027	(0.960)	773435	160.000	153.34
\$ 179 1,2-Dichlorobenzene-d4	152	5.449	5.449	(1.041)	531245	160.000	151.06

QC Flag Legend

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

669 268

Data File Name: S0823CC5.D

Inj. Date and Time: 23-AUG-2000 21:50

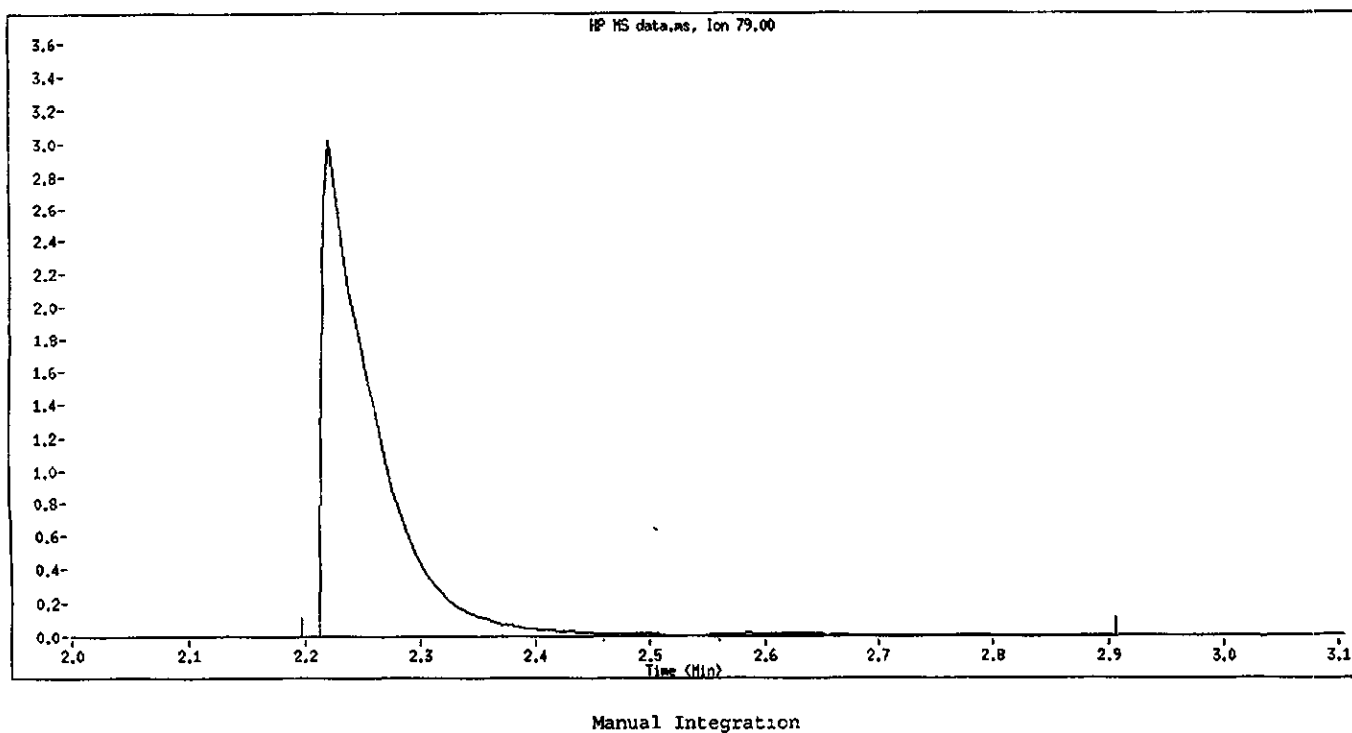
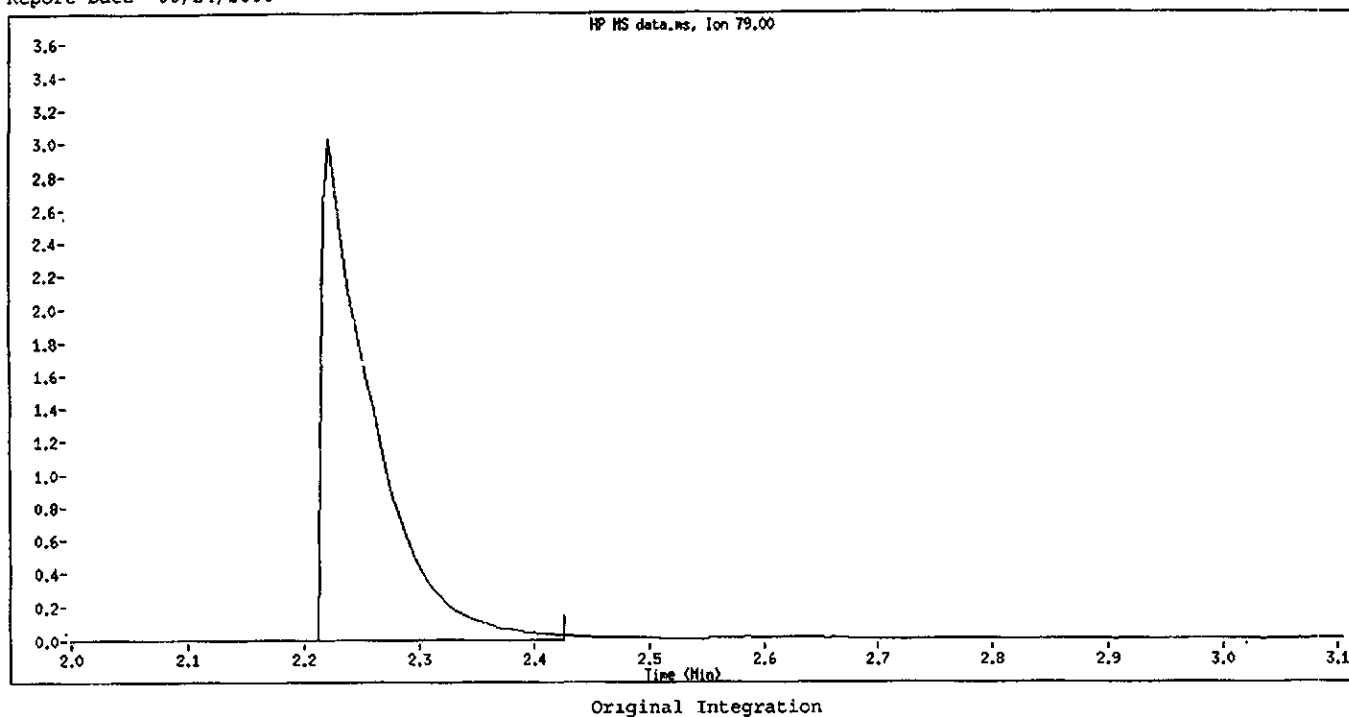
Instrument ID: 71.1

Client ID: sstd160

Compound Name: Pyridine

CAS #: 110-86-1

Report Date: 08/24/2000



Manually Integrated By: Bachas

Manual Integration Reason: Poor Chromatography

Data File Name S0823CC5 D

Inj. Date and Time: 23-AUG-2000 21:50

Instrument ID: 71 1

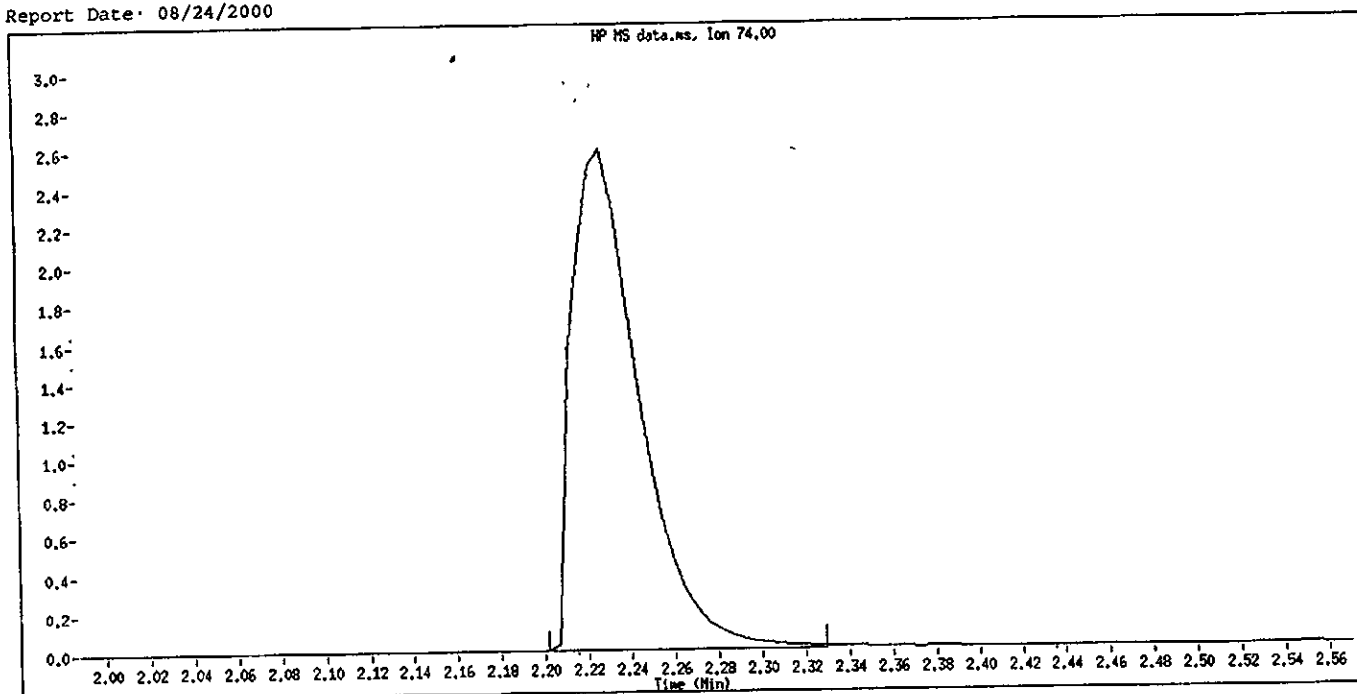
Client ID: sstd160

Compound Name: N-Nitrosodimethylamine

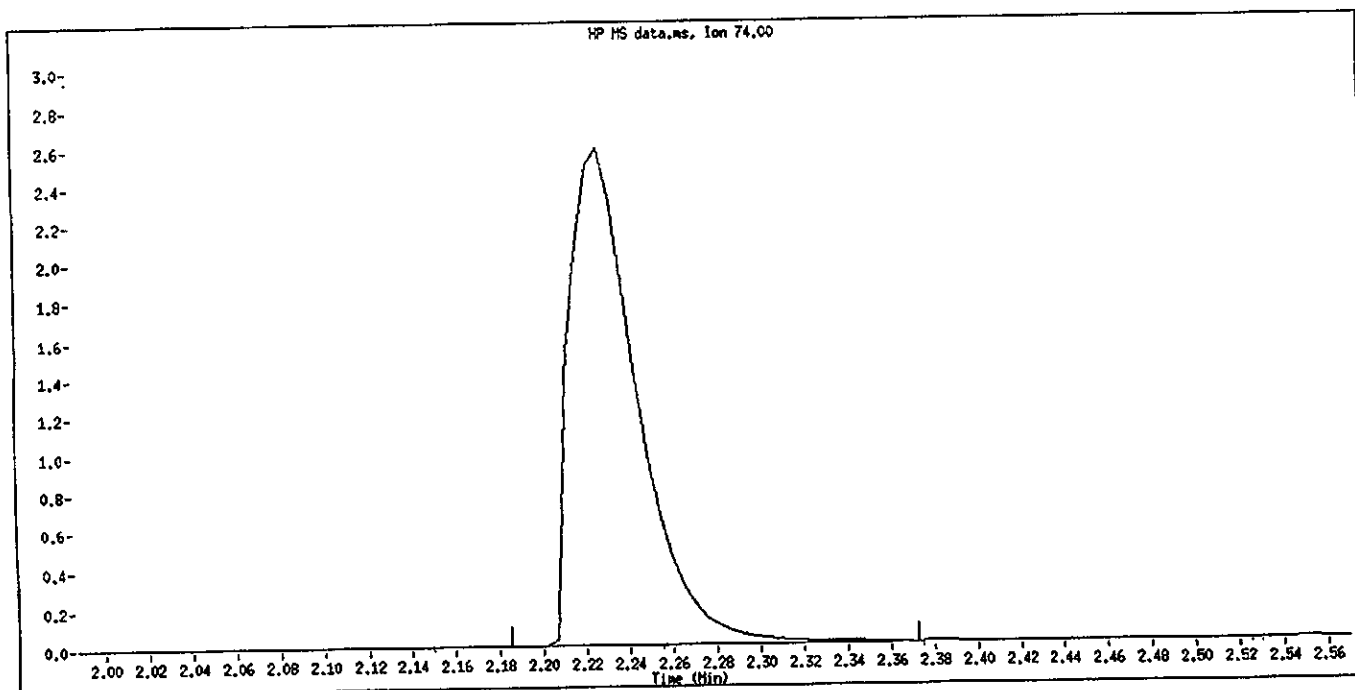
CAS #: 62-75-9

Report Date: 08/24/2000

669 269



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

669 270

Data File Name S0823CC5.D

Inj. Date and Time: 23-AUG-2000 21:50

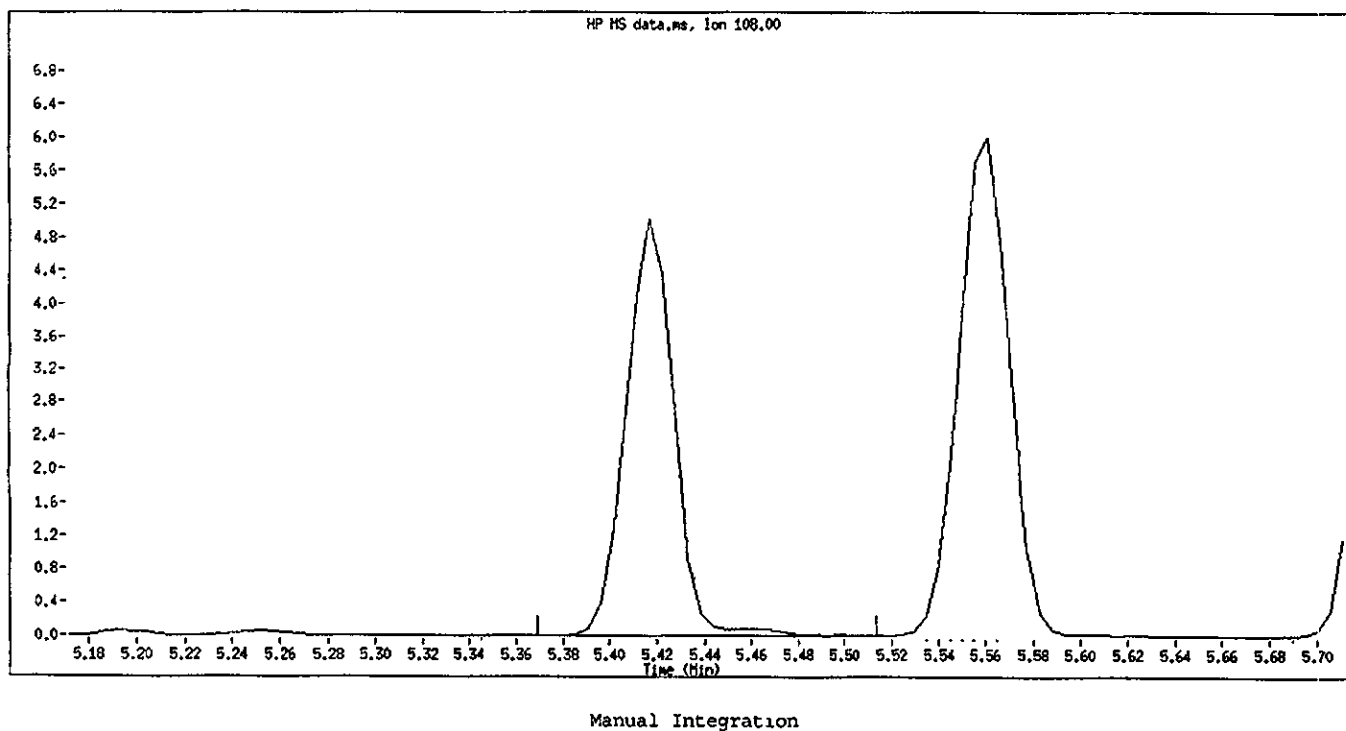
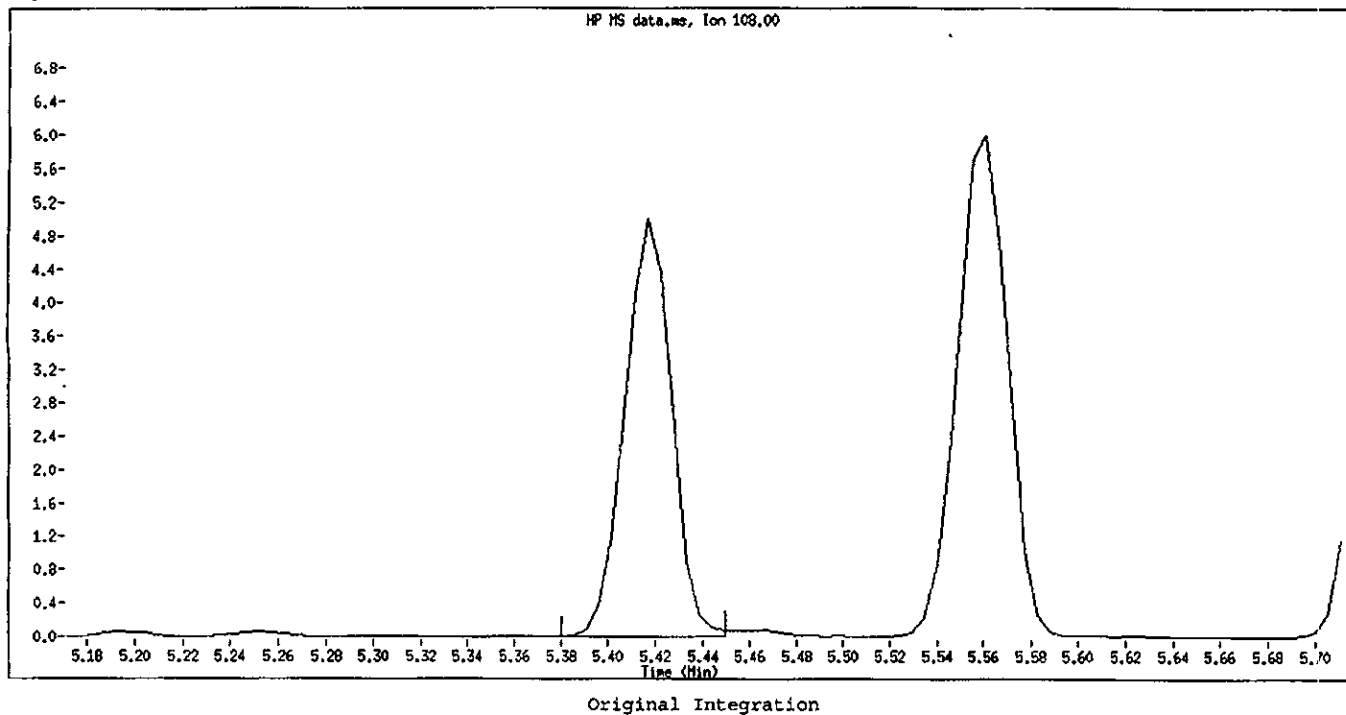
Instrument ID: 71.1

Client ID: sstd160

Compound Name: Benzyl Alcohol

CAS #: 100-51-6

Report Date 08/24/2000



Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

669 271

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.:

COH60154

Instrument ID: 71

Calibration Date(s): 08/24/00

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

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF1	=S0824C01.D	RRF2	=S0824CCC.D		
RRF3 =S0824C03.D		RRF4	=S0824C04.D	RRF5	=S0824C05.D		
COMPOUND		RRF1	RRF2	RRF3	RRF4	RRF5	% RSD
Phenol	*	1.808	1.901	1.804	1.745	1.741	1.800 3.6*
bis(2-Chloroethyl) ether		1.377	1.450	1.346	1.316	1.314	1.361 4.1
2-Chlorophenol		1.302	1.346	1.297	1.290	1.286	1.304 1.9
1,3-Dichlorobenzene		1.457	1.489	1.420	1.400	1.361	1.425 3.5
1,4-Dichlorobenzene	*	1.478	1.529	1.453	1.416	1.384	1.452 3.9*
1,2-Dichlorobenzene		1.362	1.432	1.344	1.312	1.280	1.346 4.3
2-Methylphenol		1.186	1.217	1.187	1.156	1.180	1.185 1.8
2,2'-oxybis(1-Chloropropane		1.598	1.673	1.545	1.516	1.492	1.565 4.6
4-Methylphenol		1.264	1.341	1.265	1.234	1.229	1.267 3.5
Hexachloroethane		0.519	0.545	0.522	0.522	0.510	0.524 2.5
Nitrobenzene		0.370	0.395	0.369	0.368	0.356	0.372 3.9
Isophorone		0.644	0.692	0.646	0.636	0.624	0.648 3.9
2-Nitrophenol	*	0.122	0.126	0.164	0.180	0.184	0.155 19.0*
2,4-Dimethylphenol		0.328	0.341	0.337	0.332	0.331	0.334 1.6
bis(2-Chloroethoxy)methane		0.410	0.440	0.413	0.413	0.405	0.416 3.3
N-Nitroso-di-n-propylamine	#	0.917	0.966	0.905	0.884	0.898	0.914 3.4#
2,4-Dichlorophenol	*	0.262	0.281	0.286	0.286	0.286	0.280 3.7*
1,2,4-Trichlorobenzene		0.301	0.318	0.315	0.319	0.314	0.313 2.3
Naphthalene		1.074	1.124	1.025	1.003	0.957	1.037 6.2
4-Chloroaniline		0.402	0.426	0.420	0.415	0.412	0.415 2.2
Hexachlorobutadiene	*	0.176	0.193	0.193	0.201	0.198	0.192 4.9*
4-Chloro-3-Methylphenol	*	0.266	0.290	0.300	0.294	0.299	0.290 4.8*
2-Methylnaphthalene		0.671	0.709	0.677	0.670	0.662	0.678 2.7
Hexachlorocyclopentadiene	#	0.249	0.296	0.342	0.389	0.396	0.334 18.6#
2,4,6-Trichlorophenol	*	0.304	0.340	0.353	0.370	0.376	0.349 8.2*
2,4,5-Trichlorophenol		0.353	0.391	0.396	0.412	0.416	0.394 6.4
2-Chloronaphthalene		1.112	1.215	1.130	1.156	1.087	1.140 4.3
2-Nitroaniline		0.235	0.285	0.324	0.340	0.340	0.305 14.7
Dimethylphthalate		1.205	1.300	1.271	1.292	1.270	1.268 2.9
Acenaphthylene		1.730	1.891	1.788	1.796	1.716	1.784 3.9
2,6-Dinitrotoluene		0.196	0.239	0.268	0.283	0.287	0.255 14.7
3-Nitroaniline		0.260	0.299	0.328	0.341	0.347	0.315 11.5
Acenaphthene	*	1.119	1.201	1.138	1.150	1.112	1.144 3.1*
2,4-Dinitrophenol	#	0.036	0.056	0.094	0.126	0.152	0.093 51.8#<-
4-Nitrophenol	#	0.127	0.156	0.162	0.176	0.187	0.162 14.0#
Dibenzofuran		1.565	1.651	1.593	1.600	1.557	1.593 2.3
2,4-Dinitrotoluene		0.246	0.310	0.350	0.369	0.383	0.332 16.7

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: COH160154

Instrument ID: 71

Calibration Date(s): 08/24/00

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

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF1 =S0824C01.D	RRF2 =S0824CCC.D				
RRF3 =S0824C03.D		RRF4 =S0824C04.D	RRF5 =S0824C05.D				
COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD
Diethylphthalate	1.153	1.260	1.270	1.277	1.282	1.248	4.3
4-Chlorophenyl-phenylether	0.586	0.642	0.643	0.662	0.669	0.640	5.1
Fluorene	1.231	1.354	1.322	1.328	1.318	1.311	3.6
4-Nitroaniline	0.263	0.309	0.325	0.341	0.353	0.318	11.0
4,6-Dinitro-2-methylphenol	0.035	0.053	0.086	0.107	0.120	0.080	44.9
N-Nitrosodiphenylamine (1) *	0.514	0.543	0.547	0.554	0.546	0.541	2.9*
4-Bromophenyl-phenylether	0.176	0.201	0.207	0.217	0.225	0.205	9.1
Hexachlorobenzene	0.194	0.220	0.227	0.241	0.250	0.226	9.5
Pentachlorophenol *	0.070	0.102	0.123	0.143	0.155	0.119	28.6*
Phenanthrene	0.972	1.068	1.021	1.045	1.022	1.026	3.5
Anthracene	0.965	1.092	1.059	1.086	1.065	1.053	4.9
Carbazole	0.888	1.018	0.983	1.034	1.022	0.989	6.0
Di-n-Butylphthalate	0.888	1.058	1.139	1.201	1.180	1.093	11.6
Fluoranthene *	0.908	1.101	1.081	1.160	1.179	1.086	9.9*
Pyrene	1.052	1.038	0.995	0.990	0.956	1.006	3.8
Butylbenzylphthalate	0.276	0.286	0.404	0.433	0.430	0.366	21.5
3,3'-Dichlorobenzidine	0.316	0.370	0.423	0.448	0.436	0.399	13.7
Benzo(a) Anthracene	0.917	0.980	0.973	1.018	0.999	0.977	3.9
Chrysene	0.934	0.953	0.932	0.963	0.932	0.943	1.5
bis(2-ethylhexyl) Phthalate	0.366	0.409	0.568	0.612	0.605	0.512	22.6
Di-n-octylphthalate *	0.588	0.716	1.057	1.156	1.229	0.949	29.7*
Benzo(b) fluoranthene	0.988	1.102	1.203	1.327	1.505	1.225	16.4
Benzo(k) fluoranthene	1.313	1.638	1.650	1.655	1.482	1.548	9.7
Benzo(a) pyrene *	0.965	1.110	1.168	1.242	1.251	1.147	10.2*
Indeno(1,2,3-cd) pyrene	1.215	1.467	1.600	1.784	1.802	1.574	15.5
Dibenz(a,h) anthracene	1.069	1.284	1.458	1.623	1.636	1.414	17.0
Benzo(g,h,i) perylene	1.053	1.225	1.288	1.454	1.456	1.295	13.1
Pyridine	1.436	1.521	1.406	1.376	1.342	1.416	4.8
N-Nitrosodimethylamine	0.831	0.920	0.851	0.831	0.823	0.851	4.7
Aniline	1.814	1.852	1.749	1.669	1.648	1.746	5.1
Benzyl Alcohol	0.906	0.922	0.926	0.911	0.923	0.918	0.9
Benzoic Acid	0.068	0.061	0.127	0.154	0.183	0.119	44.8
1-Methylnaphthalene	0.632	0.667	0.643	0.630	0.617	0.638	2.9
2,3,4,6-Tetrachlorophenol	0.270	0.301	0.324	0.344	0.362	0.320	11.3
2,3,5,6-Tetrachlorophenol	0.225	0.256	0.295	0.319	0.336	0.286	15.8

COH/60154

Max %RSD for CCC(*) = 30.0%

2076

869 274

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

INITIAL CALIBRATION REPORT

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

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

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

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

INITIAL CALIBRATION REPORT

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

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

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

669 276

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

INITIAL CALIBRATION REPORT

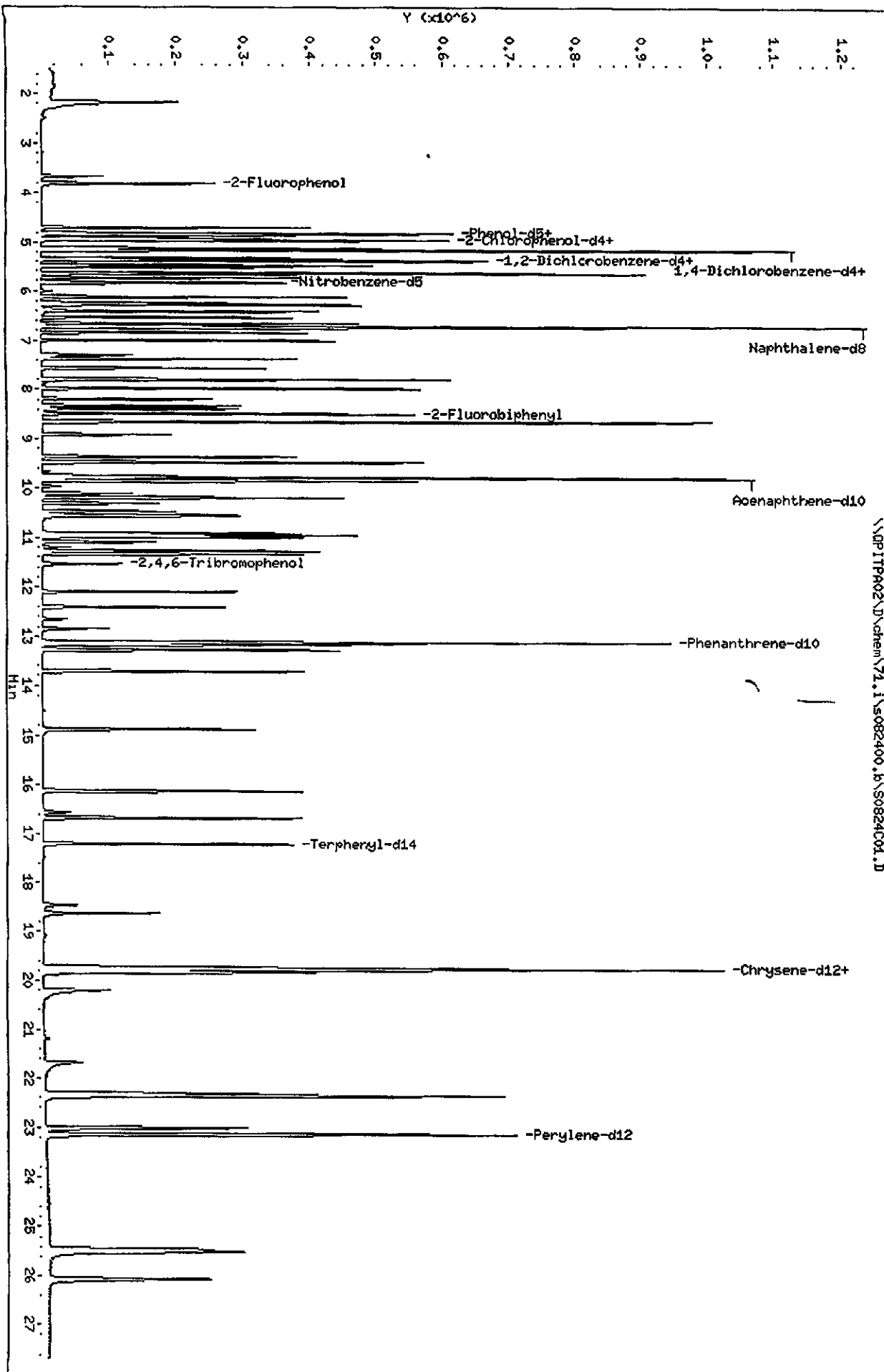
Instrument ID: 71.i
 Lab File ID: S0824CCC.D
 Analysis Type: NONE

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

COMPOUND	%RSD
2-Chloronaphthalene	4.3
2-Nitroaniline	14.7
Dimethylphthalate	2.9
Acenaphthylene	3.9
2,6-Dinitrotoluene	14.7
3-Nitroaniline	11.5
Acenaphthene	3.1
2,4-Dinitrophenol	51.8
4-Nitrophenol	14.0
Dibenzofuran	2.3
2,4-Dinitrotoluene	16.7
2,3,5,6-Tetrachlorophenol	15.8
2-Naphthylamine	12.9
2,3,4,6-Tetrachlorophenol	11.3
Diethylphthalate	4.3
Fluorene	3.6
4-Chlorophenyl-phenylether	5.1
4-Nitroaniline	11.0
4,6-Dinitro-2-methylphenol	44.9
N-Nitrosodiphenylamine (1)	2.9
1,2-Diphenylhydrazine	6.4
2,4,6-Tribromophenol	19.5
4-Bromophenyl-phenylether	9.1
Hexachlorobenzene	9.5
Pentachlorophenol	28.6
Phenanthrene	3.5
Anthracene	4.9
Carbazole	6.0
Di-n-Butylphthalate	11.6
Fluoranthene	9.9
Benzidine	25.9
Pyrene	3.8
Terphenyl-d14	0.5
Butylbenzylphthalate	21.5
Benzo(a)Anthracene	3.9
3,3'-Dichlorobenzidine	13.7
Chrysene	1.5
bis(2-ethylhexyl)Phthalate	22.6
Di-n-octylphthalate	29.7

Data File: \NPI\TPA02\chem\71.i\5082400.b\50824001.D
Date: 24-AUG-2000 16:04
Client ID: SSTID20
Sample Info: std20(10 ug/ml) 194-188-3 8270/cip
Column phase: Hp5-MS

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



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824C01.D
 Lab Smp Id: sstd50 Client Smp ID: SSTD20
 Inj Date : 24-AUG-2000 16:04
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd20(10 ug/ml) 194-188-3 8270/clp
 Misc Info : sstd50,s082400.b,8270clp.m,1-82701.sub,1,1
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
 Meth Date : 25-Aug-2000 10:01 bachas Quant Type: ISTD
 Cal Date : 24-AUG-2000 16:04 Cal File: S0824C01.D
 Als bottle: 96 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5 159	5 159	(1.000)	232602	40.0000	
* 2 Naphthalene-d8	136	6 714	6 714	(1.000)	857958	40.0000	
* 3 Acenaphthene-d10	164	9 791	9 791	(1.000)	467922	40.0000	
* 4 Phenanthrene-d10	188	13 119	13.119	(1.000)	811091	40.0000	
* 5 Chrysene-d12	240	19.776	19.776	(1.000)	728901	40.0000	
* 6 Perylene-d12	264	23 146	23.146	(1.000)	639978	40.0000	
13 N-Nitrosodimethylamine	74	2 157	2.157	(0.418)	96682	20.0000	18.983
10 Pyridine	79	2.168	2.168	(0.420)	166954	20.0000	19.420 (M)
19 Methyl methanesulfonate	80	3.669	3.669	(0.711)	48804	20.0000	19.592
22 Aniline	93	4 850	4 850	(0.940)	210977	20.0000	19.792
23 Phenol	94	4.828	4.828	(0.936)	210261	20.0000	19.499
24 bis(2-Chloroethyl)ether	93	4.919	4.919	(0.953)	160127	20.0000	19.479
25 2-Chlorophenol	128	4.962	4.962	(0.962)	151466	20.0000	19.671
27 1,3-Dichlorobenzene	146	5.117	5.117	(0.992)	169468	20.0000	19.781
28 1,4-Dichlorobenzene	146	5 175	5.175	(1.003)	171946	20.0000	19.664
29 1,2-Dichlorobenzene	146	5 384	5 384	(1.043)	158371	20.0000	19.495
30 Benzyl Alcohol	108	5.336	5.336	(1.034)	105421	20.0000	19.828
31 2-Methylphenol	108	5.475	5.475	(1.061)	137996	20.0000	19.743
32 2,2'-oxybis(1-Chloropropane)	45	5 512	5.512	(1.068)	185882	20.0000	19.541
33 N-Nitroso-di-n-propylamine	70	5.672	5.672	(1.099)	106698	20.0000	19.489
35 4-Methylphenol	108	5.635	5.635	(1.092)	146952	20.0000	19.407
38 Hexachloroethane	117	5.736	5.736	(1.112)	60326	20.0000	19.497
39 Nitrobenzene	77	5.843	5.843	(0.870)	158966	20.0000	19.354
44 Isophorone	82	6 121	6 121	(0.912)	276367	20.0000	19.290
45 2-Nitrophenol	139	6.239	6.239	(0.929)	52340	20.0000	19.712
46 2,4-Dimethylphenol	107	6.276	6.276	(0.935)	140556	20.0000	19.590

Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824C01.D
Report Date: 25-Aug-2000 10:01

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	----	--	-----	-----	-----	-----	-----
47 bis(2-Chloroethoxy)methane	93	6.409	6.409	(0.955)	175945	20.0000	19.299
51 2,4-Dichlorophenol	162	6.532	6.532	(0.973)	112594	20.0000	19.314
52 Benzoic Acid	122	6.372	6.372	(0.949)	29173	20.0000	21.008 (M)
53 1,2,4-Trichlorobenzene	180	6.655	6.655	(0.991)	129176	20.0000	19.468
54 Naphthalene	128	6.741	6.741	(1.004)	460974	20.0000	19.552
55 4-Chloroaniline	127	6.842	6.842	(1.019)	172269	20.0000	19.416
59 Hexachlorobutadiene	225	7.002	7.002	(1.043)	75754	20.0000	19.087
62 4-Chloro-3-Methylphenol	107	7.569	7.569	(1.127)	114191	20.0000	19.153
65 2-Methylnaphthalene	142	7.798	7.798	(1.162)	287775	20.0000	19.445
66 1-Methylnaphthalene	142	7.980	7.980	(1.189)	270997	20.0000	19.462
67 Hexachlorocyclopentadiene	237	8.194	8.194	(0.837)	58269	20.0000	18.273
69 2,4,6-Trichlorophenol	196	8.333	8.333	(0.851)	71196	20.0000	18.896
70 2,4,5-Trichlorophenol	196	8.391	8.391	(0.857)	82551	20.0000	18.982 (M)
73 2-Chloronaphthalene	162	8.653	8.653	(0.884)	260055	20.0000	19.114
77 2-Nitroaniline	65	8.910	8.910	(0.910)	55036	20.0000	18.083
80 Dimethylphthalate	163	9.358	9.358	(0.956)	281878	20.0000	19.243
82 2,6-Dinitrotoluene	165	9.487	9.487	(0.969)	45977	20.0000	18.040
83 Acenaphthylene	152	9.471	9.471	(0.967)	404852	20.0000	19.111
85 3-Nitroaniline	138	9.748	9.748	(0.996)	60754	20.0000	18.594
86 Acenaphthene	153	9.855	9.855	(1.007)	261800	20.0000	19.293
87 2,4-Dinitrophenol	184	9.967	9.967	(1.018)	8352	20.0000	15.647
89 4-Nitrophenol	109	10.106	10.106	(1.032)	29753	20.0000	17.987
90 Dibenzofuran	168	10.192	10.192	(1.041)	366193	20.0000	19.467
91 2,4-Dinitrotoluene	165	10.304	10.304	(1.052)	57450	20.0000	17.661
95 2,3,5,6-Tetrachlorophenol	232	10.464	10.464	(1.069)	52713	20.0000	18.702
92 2,3,4,6-Tetrachlorophenol	232	10.566	10.566	(1.079)	63164	20.0000	18.907 (M)
96 2-Naphthylamine	143	10.534	10.534	(1.076)	198665	20.0000	20.852
97 Diethylphthalate	149	10.902	10.902	(1.113)	269672	20.0000	19.108
98 Fluorene	166	10.950	10.950	(1.118)	288045	20.0000	19.046
99 4-Chlorophenyl-phenylether	204	10.988	10.988	(1.122)	137214	20.0000	19.099
100 4-Nitroaniline	138	11.089	11.089	(1.133)	61592	20.0000	18.396
102 4,6-Dinitro-2-methylphenol	198	11.196	11.196	(0.853)	14084	20.0000	15.856
103 N-Nitrosodiphenylamine (1)	169	11.271	11.271	(0.859)	208440	20.0000	19.447
104 1,2-Diphenylhydrazine	77	11.335	11.335	(0.864)	299572	20.0000	18.634
112 4-Bromophenyl-phenylether	248	12.104	12.104	(0.923)	71538	20.0000	18.687
113 Hexachlorobenzene	284	12.403	12.403	(0.945)	78875	20.0000	18.776
117 Pentachlorophenol	266	12.847	12.847	(0.979)	28331	20.0000	16.275
122 Phenanthrene	178	13.173	13.173	(1.004)	394019	20.0000	19.058
123 Anthracene	178	13.279	13.279	(1.012)	391468	20.0000	18.772
126 Carbazole	167	13.712	13.712	(1.045)	359981	20.0000	18.632
130 Di-n-Butylphthalate	149	14.866	14.866	(1.133)	360356	20.0000	18.262
135 Fluoranthene	202	16.121	16.121	(1.229)	368182	20.0000	18.077
136 Benzidine	184	16.549	16.549	(0.837)	65605	20.0000	19.559 (M)
137 Pyrene	202	16.666	16.666	(0.843)	383346	20.0000	20.127
144 Butylbenzylphthalate	149	18.622	18.622	(0.942)	100486	20.0000	19.635 (M)
149 3,3'-Dichlorobenzidine	252	19.781	19.781	(1.000)	115345	20.0000	18.426
150 Benzo(a)Anthracene	228	19.738	19.738	(0.998)	334118	20.0000	19.337

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	====	==	=====	=====	=====	=====	=====
151 Chrysene	228	19.834	19.834	(1.003)	340413	20.0000	19.803
153 bis(2-ethylhexyl)Phthalate	149	20.203	20.203	(1.022)	133441	20.0000	18.888 (M)
155 Di-n-octylphthalate	149	21.667	21.667	(0.936)	188199	20.0000	18.044 (M)
157 Benzo(b)fluoranthene	252	22.324	22.324	(0.964)	316215	20.0000	18.915
158 Benzo(k)fluoranthene	252	22.372	22.372	(0.967)	420188	20.0000	17.797
159 7,12-dimethylbenz(a)anthracen	256	22.377	22.377	(0.967)	158049	20.0000	16.955
167 Benzo(a)pyrene	252	23.018	23.018	(0.994)	308822	20.0000	18.606
169 Indeno(1,2,3-cd)pyrene	276	25.460	25.460	(1.100)	388802	20.0000	18.124
170 Dibenzo(a,h)anthracene	278	25.508	25.508	(1.102)	341970	20.0000	18.170
171 Benzo(g,h,i)perylene	276	26.069	26.069	(1.126)	336947	20.0000	18.487
\$ 172 Nitrobenzene-d5	82	5.822	5.822	(0.867)	148883	20.0000	19.424
\$ 173 2-Fluorobiphenyl	172	8.482	8.482	(0.866)	307319	20.0000	19.476
\$ 174 Terphenyl-d14	244	17.201	17.201	(0.870)	284020	20.0000	19.921
\$ 175 Phenol-d5	99	4.812	4.812	(0.933)	189280	20.0000	19.654
\$ 176 2-Fluorophenol	112	3.813	3.813	(0.739)	147542	20.0000	19.537
\$ 177 2,4,6-Tribromophenol	330	11.543	11.543	(0.880)	28785	20.0000	18.519
\$ 178 2-Chlorophenol-d4	132	4.946	4.946	(0.959)	135934	20.0000	19.630
\$ 179 1,2-Dichlorobenzene-d4	152	5.373	5.373	(1.041)	105772	20.0000	19.653

QC Flag Legend

M - Compound response manually integrated.

Data File Name S0824C01.D

Inj Date and Time: 24-AUG-2000 16:04

Instrument ID: 71.1

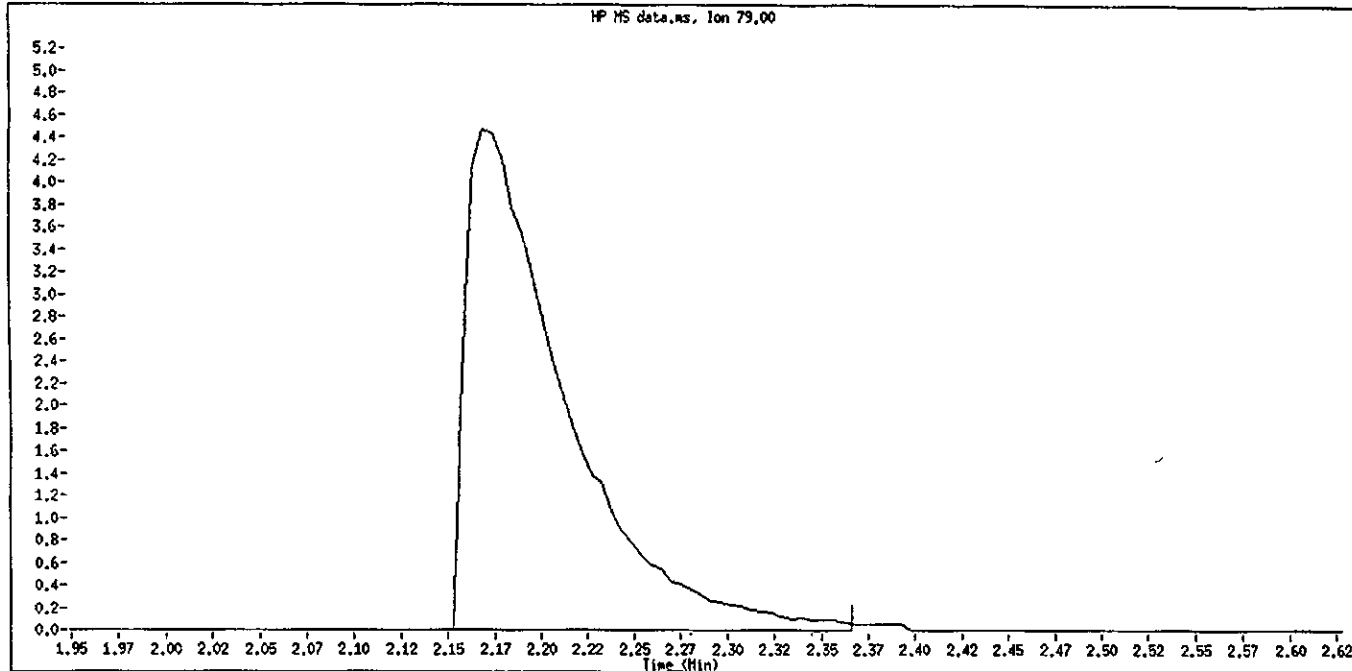
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Compound Name: Pyridine

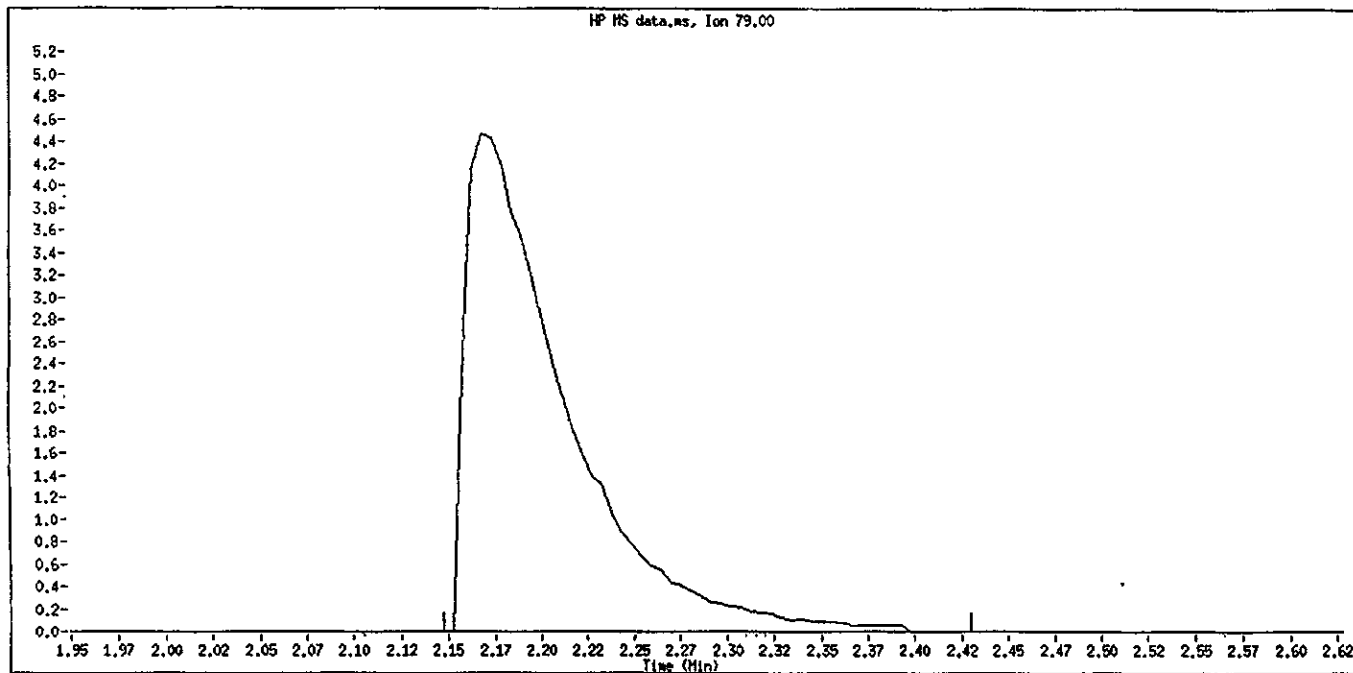
CAS #: 110-86-1

Report Date: 08/25/2000

669 281



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

669 282

Data File Name S0824C01.D

Inj Date and Time. 24-AUG-2000 16:04

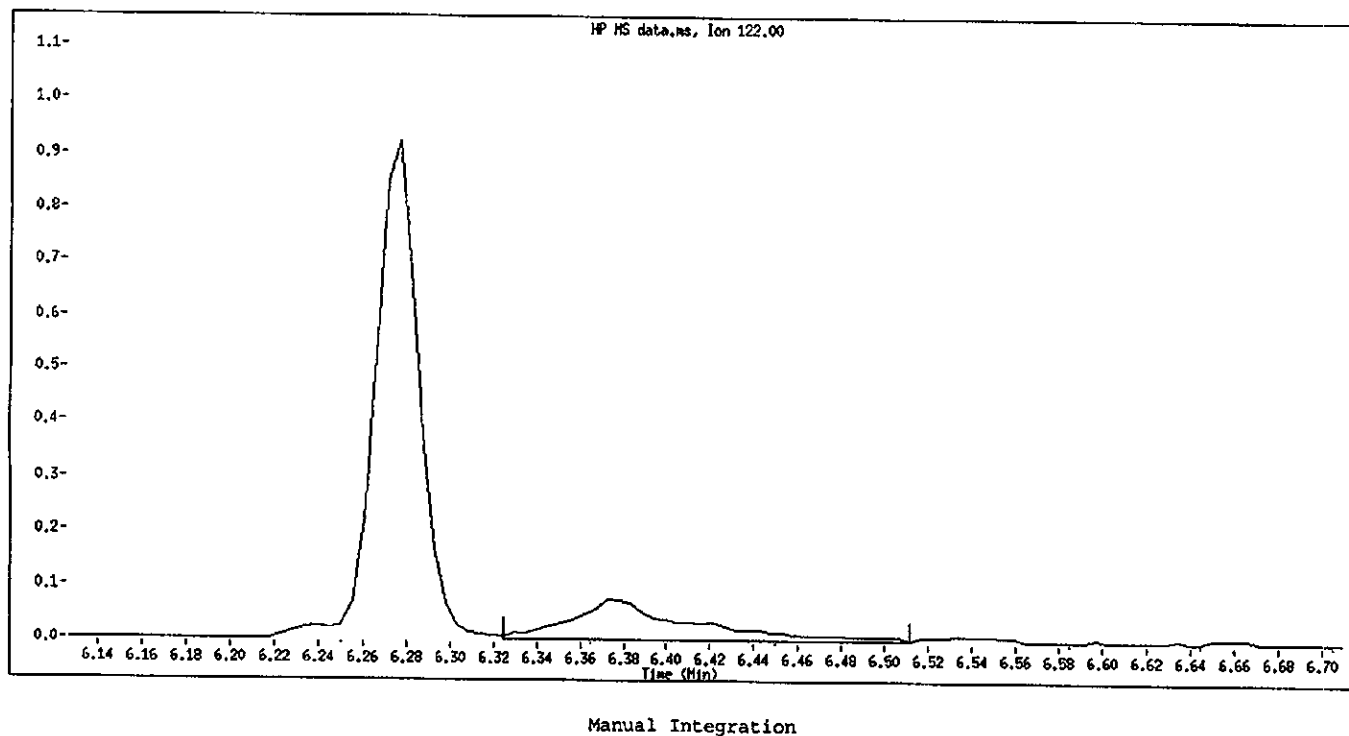
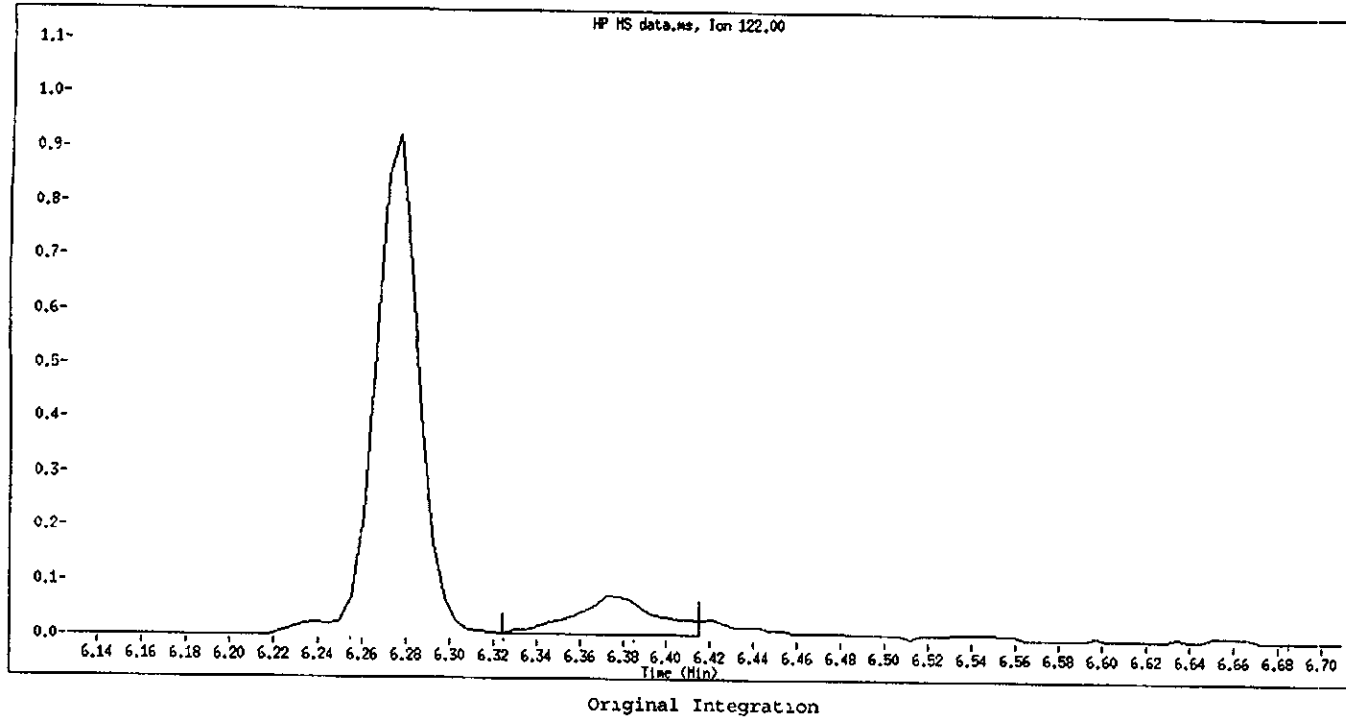
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Compound Name: Benzoic Acid

CAS #: 65-85-0

Report Date 08/25/2000

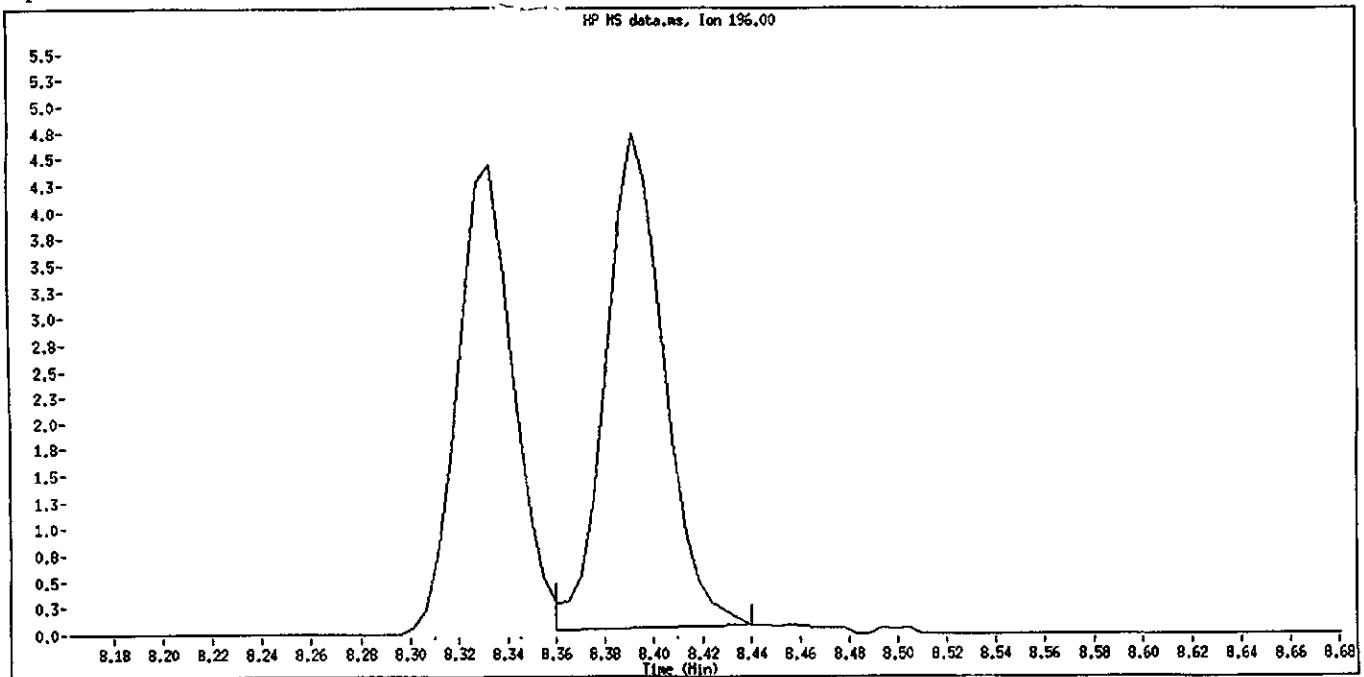


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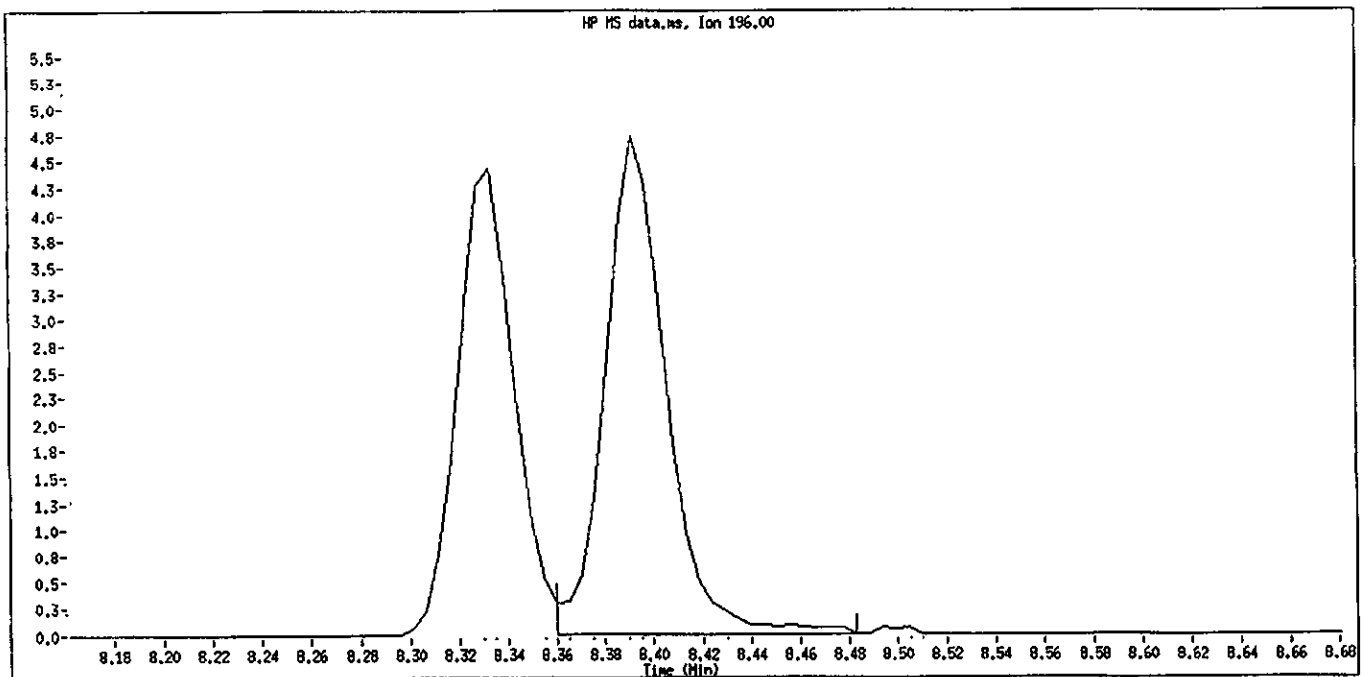
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Client ID: SST20
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 08/25/2000

669 283



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 284

Data File Name S0824001.D

Inj. Date and Time: 24-AUG-2000 16:04

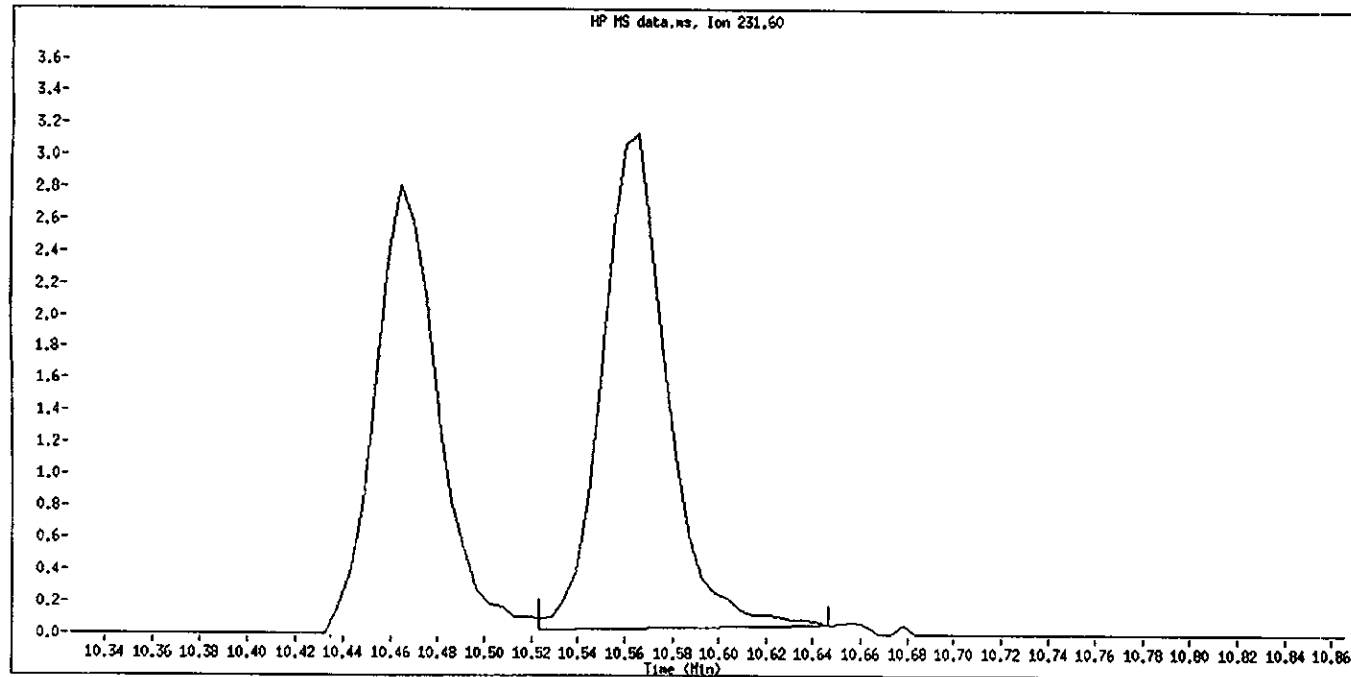
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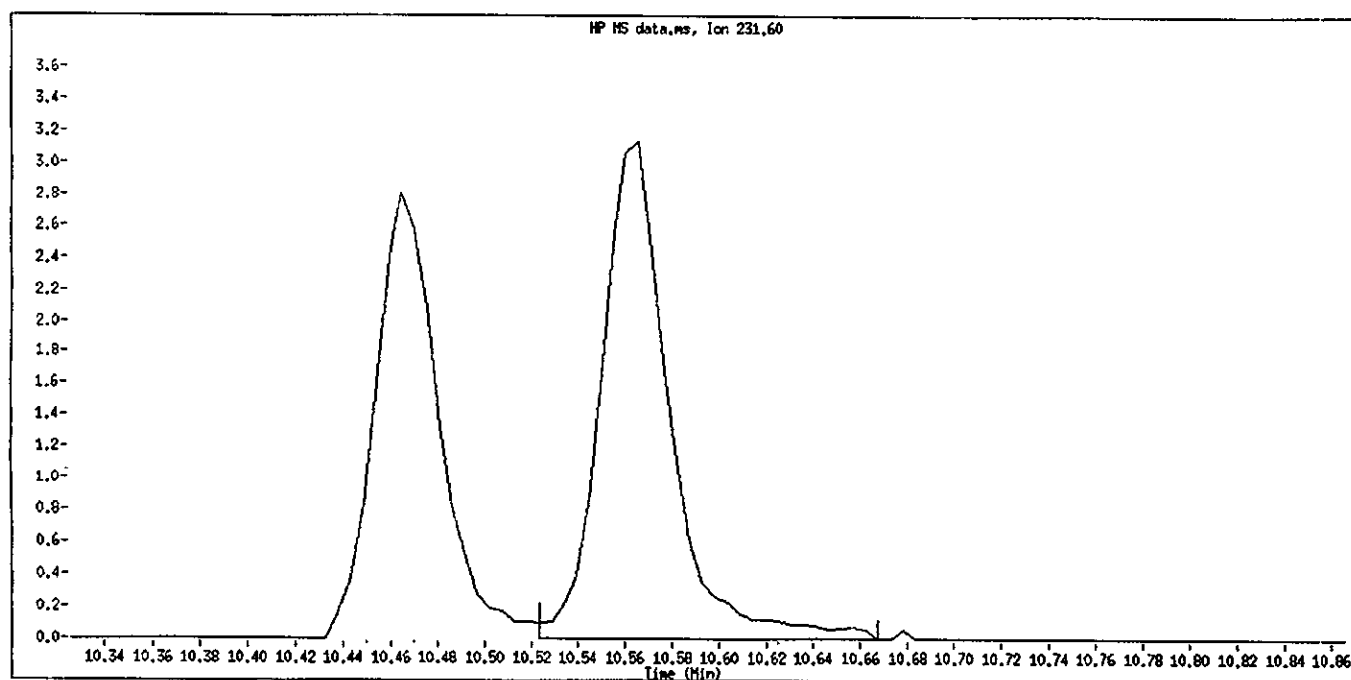
Compound Name: 2,3,4,6-Tetrachlorophenol

CAS # 58-90-2

Report Date: 08/25/2000



Original Integration



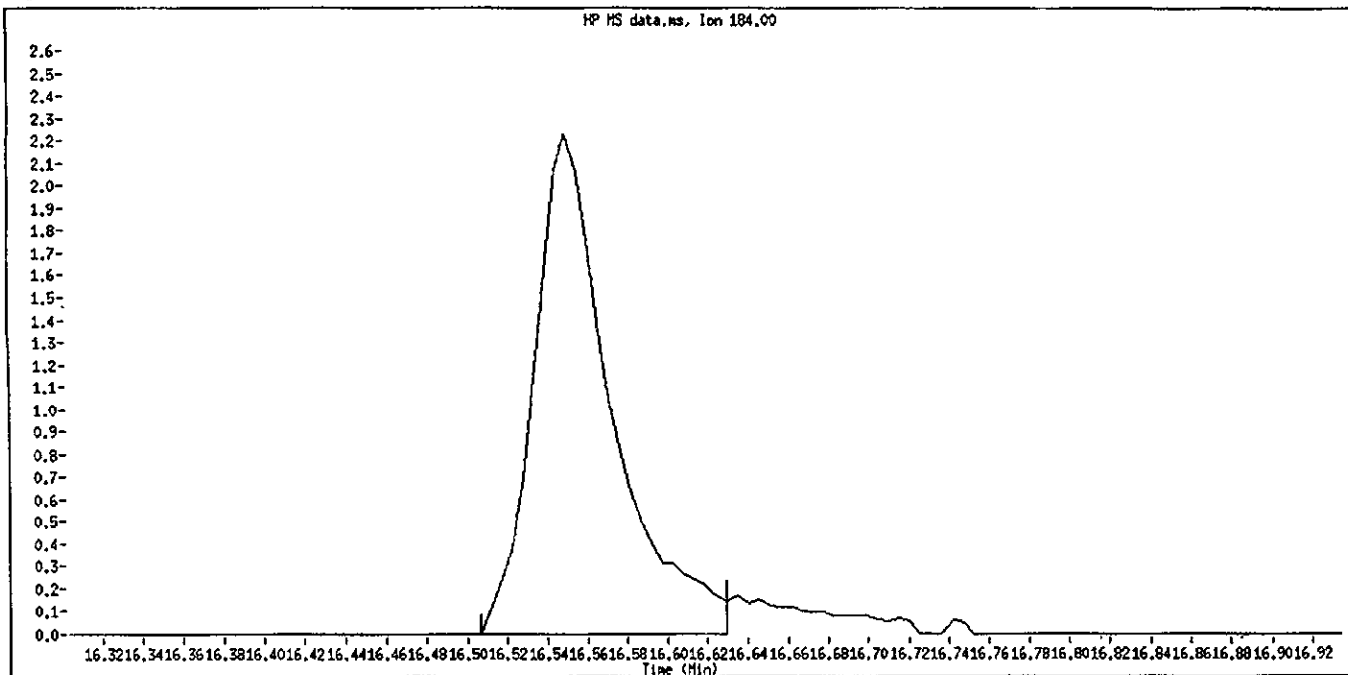
Manual Integration

Manually Integrated By: Bachas

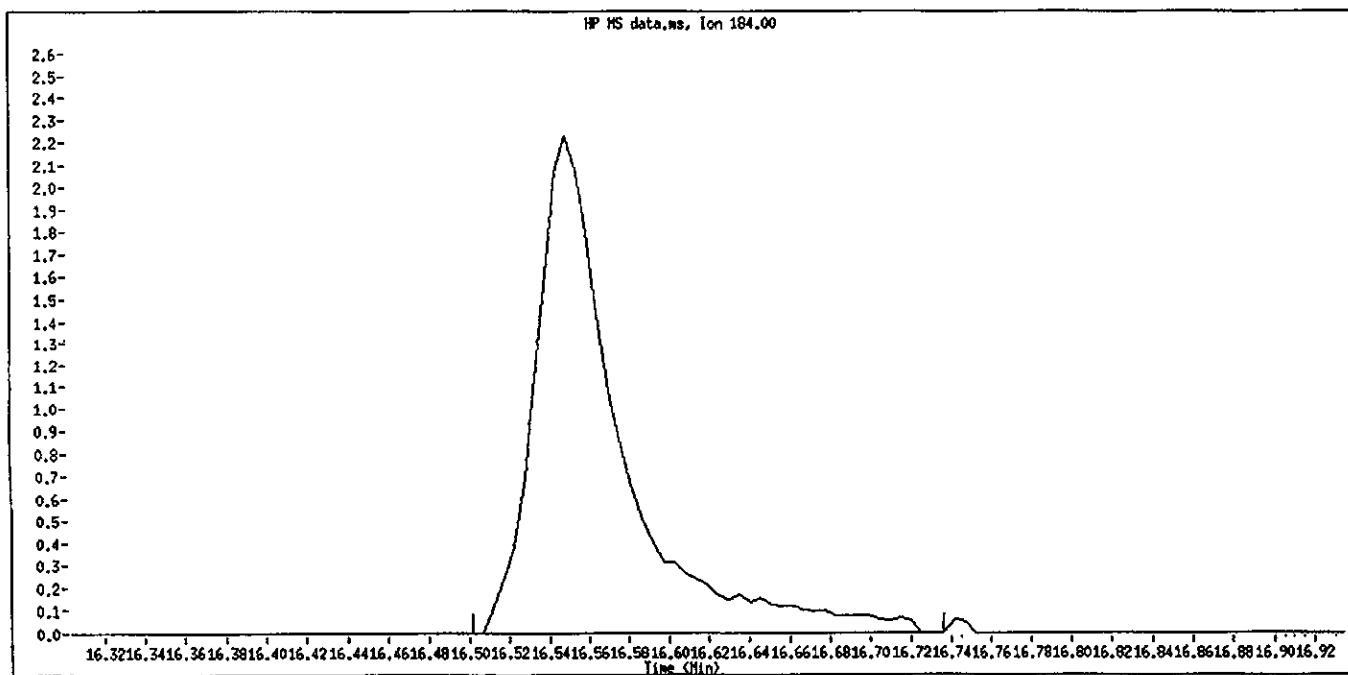
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Client ID: SST20
Compound Name: Benzidine
CAS # 92-87-5
Report Date: 08/25/2000

669 285



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 286

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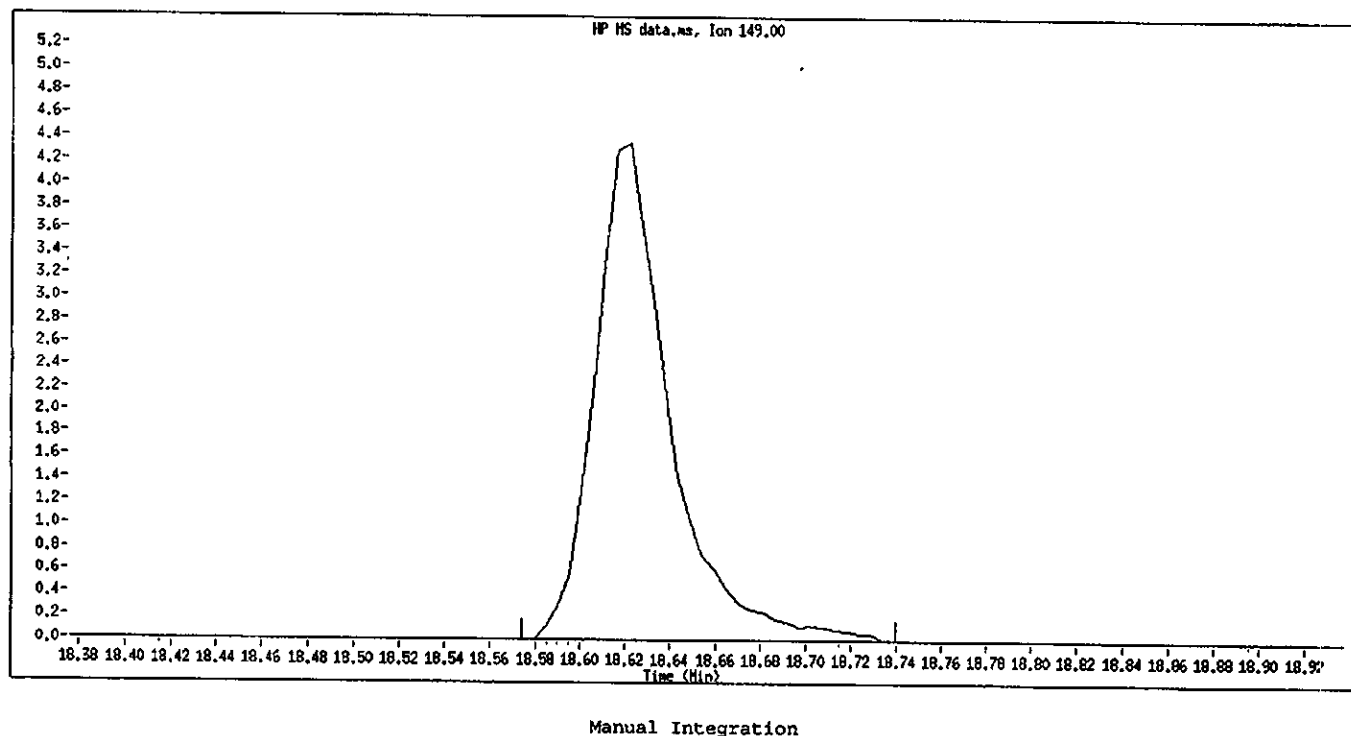
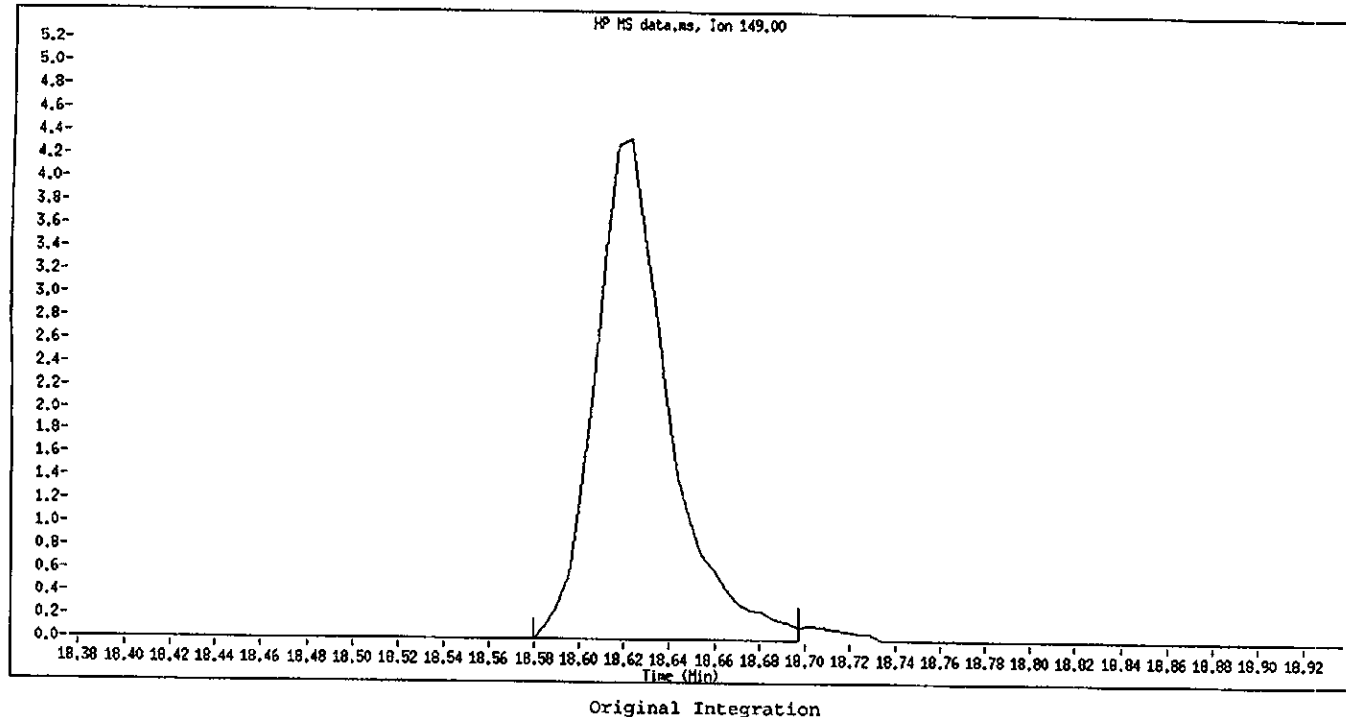
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Client ID SST20

Compound Name: Butylbenzylphthalate

CAS #: 85-68-7

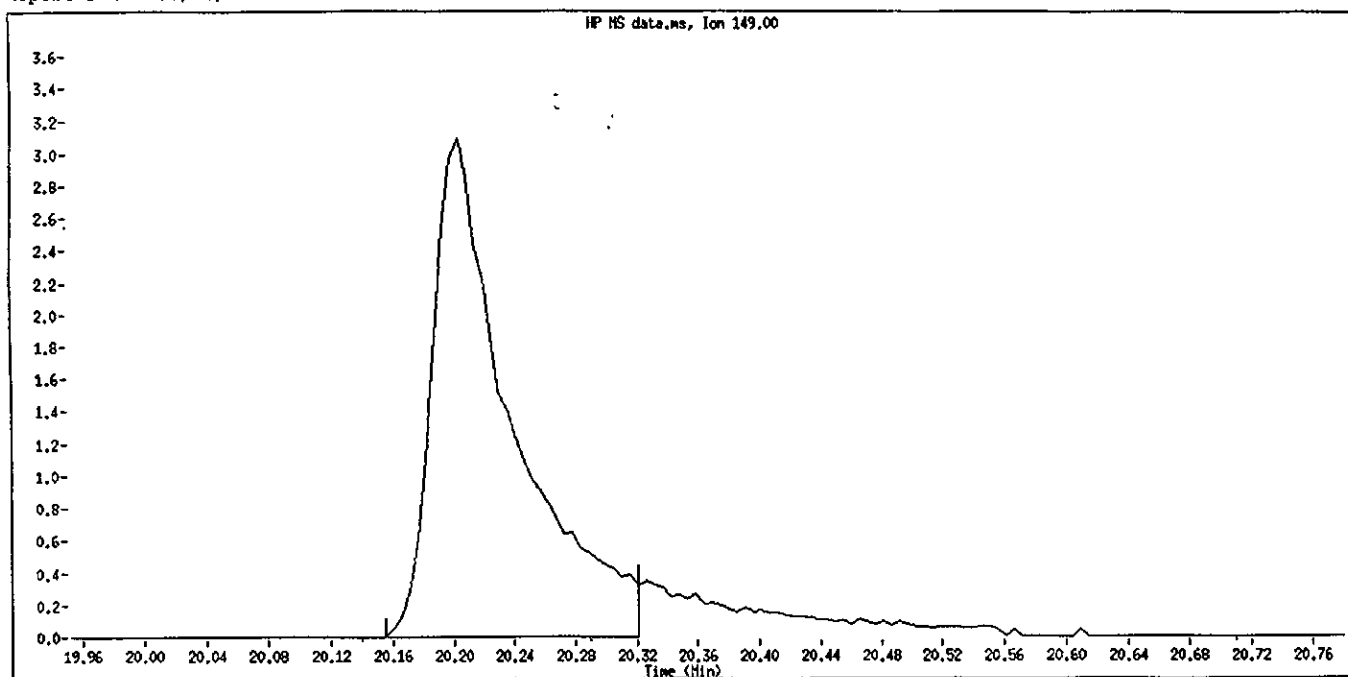
Report Date: 08/25/2000



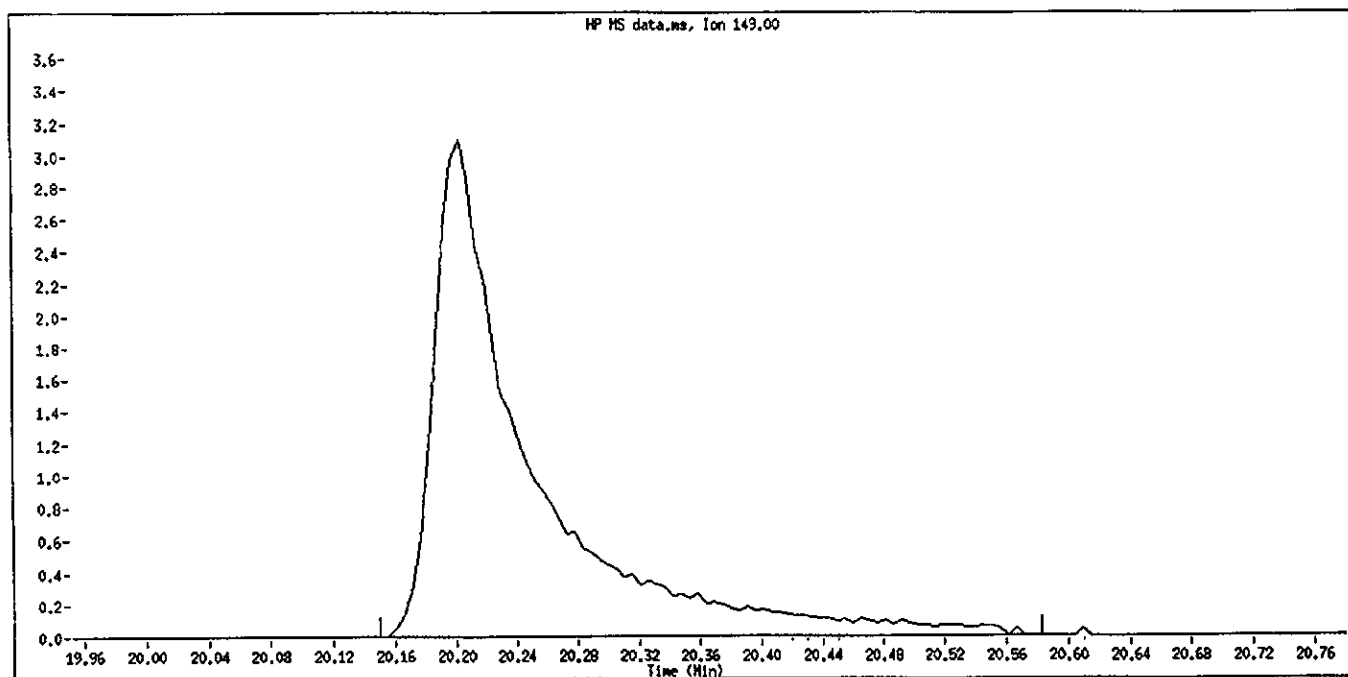
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Manual Integration Reason: Poor Chromatography

Data File Name S0824C01.D
 Inj Date and Time: 24-AUG-2000 16:04
 Instrument ID: 71 1
 Client ID: SSTD20
 Compound Name: bis(2-ethylhexyl)Phthalate
 CAS #: 117-81-7
 Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: Bachas
 Manual Integration Reason: Poor Chromatography

669.288

Data File Name: C0824C01.D

Inj. Date and Time: 24-AUG-2000 16:04

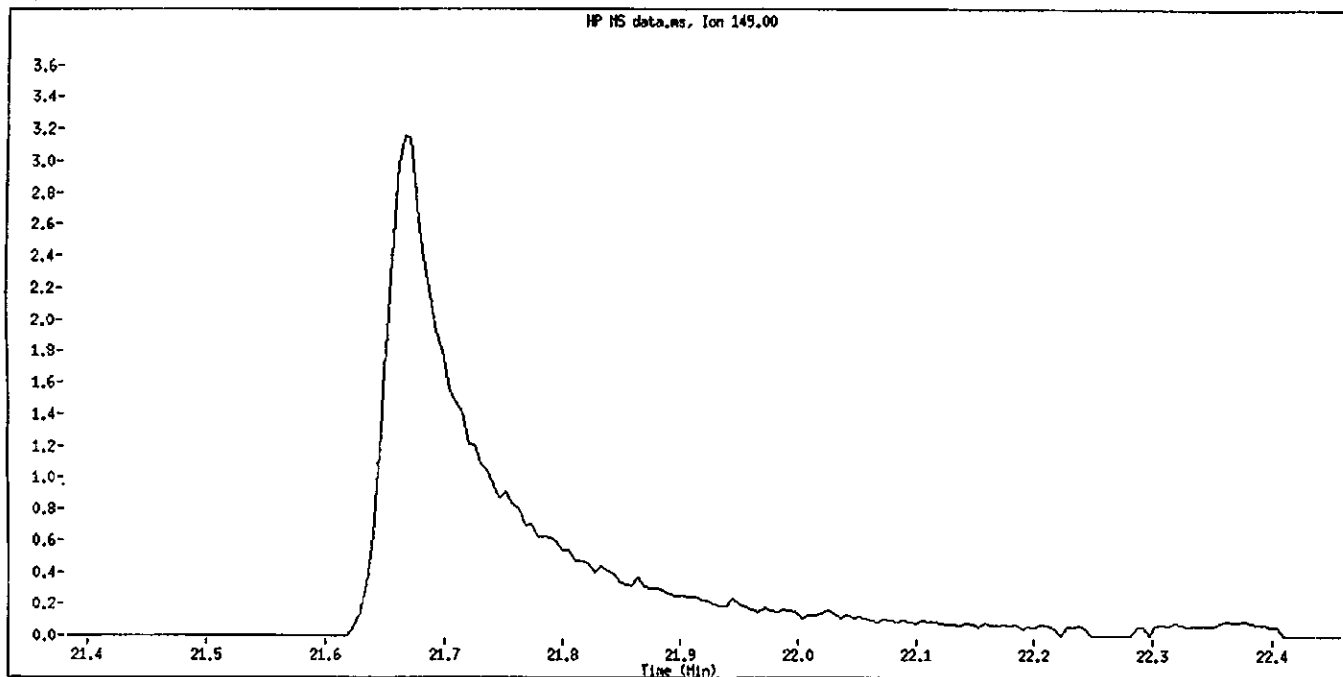
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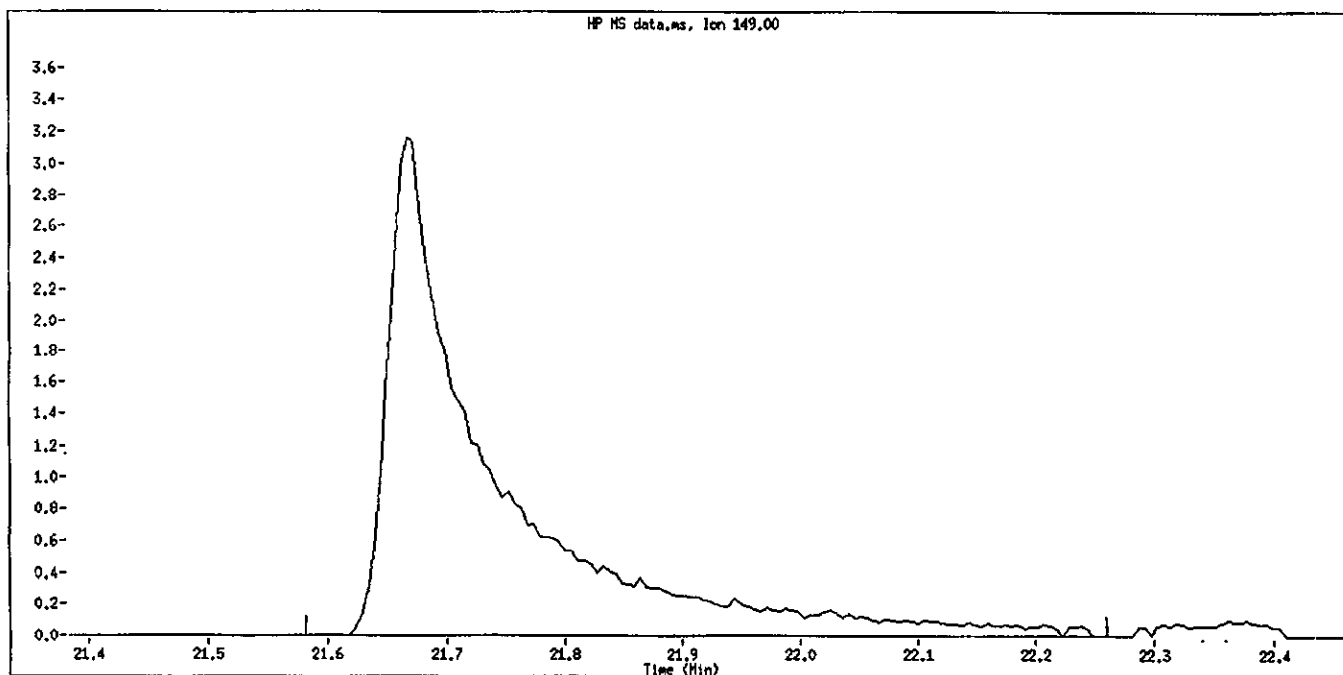
Compound Name: Di-n-octylphthalate

CAS #: 117-84-0

Report Date: 08/25/2000



Original Integration



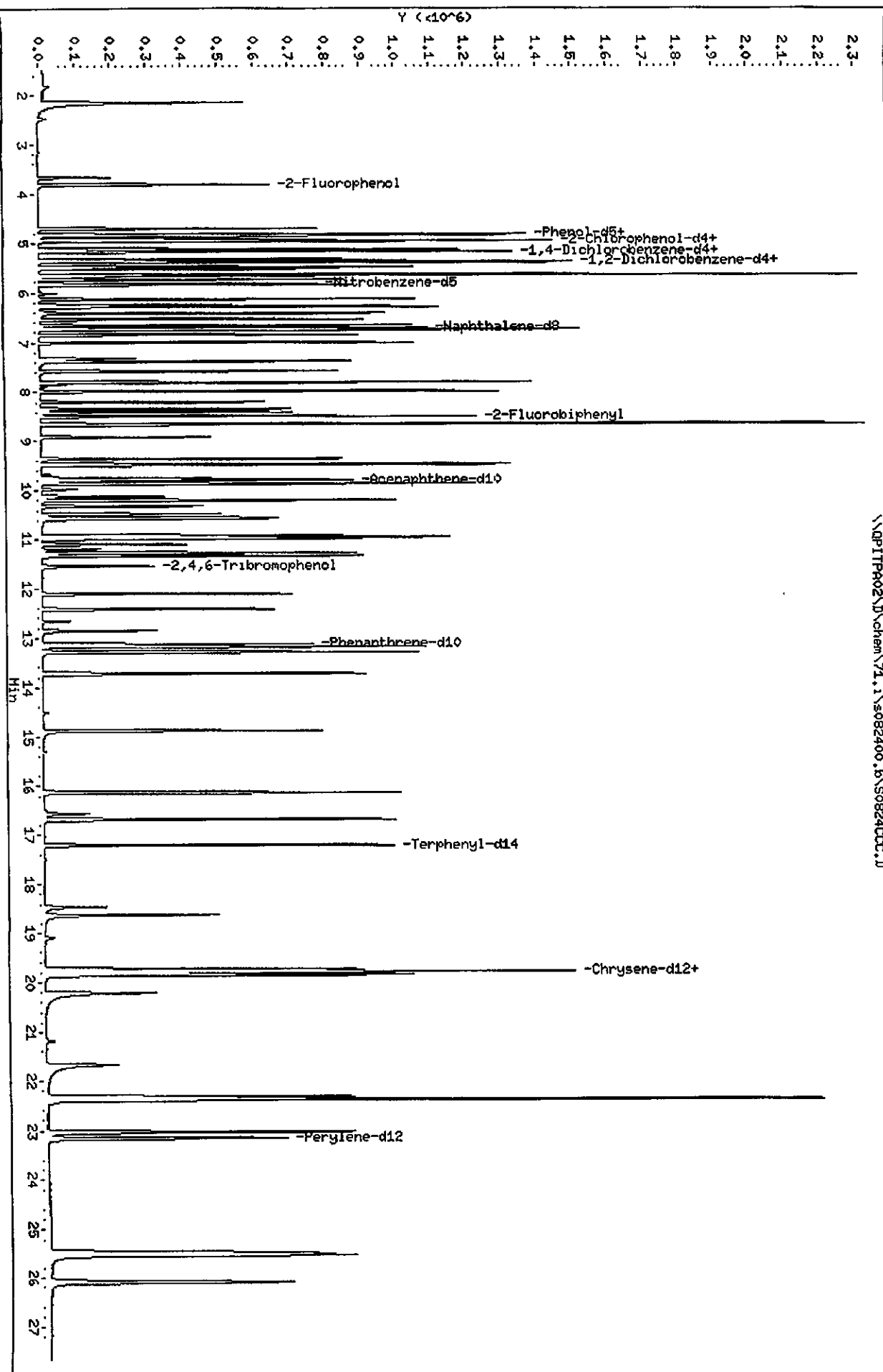
Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File: \\QPI7PA02\chem\71.1\5082400.b\5082400C.D
Date: 24-AUG-2000 15:30
Client ID: SST050
Sample Info: sst050(25 ug/ml) 194-183-13 8270/01p
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824CCC.D
 Lab Smp Id: sstd50 Client Smp ID: SST50
 Inj Date : 24-AUG-2000 15:30
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd50(25 ug/ml) 194-183-13 8270/clp
 Misc Info : sstd50,s082400.b,8270clp.m,1-82701.sub,1,2
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
 Meth Date : 25-Aug-2000 10:00 bachas Quant Type: ISTD
 Cal Date : 24-AUG-2000 15:30 Cal File: S0824CCC.D
 Als bottle: 2 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

AMOUNTS

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
*****	=====	==	=====	=====	=====	=====	=====
* 1 1,4-Dichlorobenzene-d4	152	5.153	5 153	(1.000)	197135	40.0000	
* 2 Naphthalene-d8	136	6.713	6 713	(1 000)	716872	40 0000	
* 3 Acenaphthene-d10	164	9.795	9.795	(1 000)	383278	40.0000	
* 4 Phenanthrene-d10	188	13 123	13.123	(1 000)	652627	40.0000	
* 5 Chrysene-d12	240	19.780	19 780	(1.000)	712357	40 0000	
* 6 Perylene-d12	264	23.145	23 145	(1.000)	607120	40.0000	
13 N-Nitrosodimethylamine	74	2.129	2.129	(0 413)	226788	50.0000	50 000(M)
10 Pyridine	79	2 135	2 135	(0.414)	374852	50.0000	50.000(M)
19 Methyl methanesulfonate	80	3 657	3 657	(0.710)	107717	50 0000	50 000
22 Aniline	93	4.848	4.848	(0 941)	456403	50.0000	50.000
23 Phenol	94	4.827	4.827	(0 937)	468378	50.0000	50.000
24 bis(2-Chloroethyl)ether	93	4.918	4.918	(0.954)	357427	50.0000	50.000
25 2-Chlorophenol	128	4.961	4.961	(0.963)	331674	50.0000	50.000
27 1,3-Dichlorobenzene	146	5.116	5.116	(0 993)	367002	50 0000	50 000
28 1,4-Dichlorobenzene	146	5.174	5.174	(1.004)	376763	50.0000	50.000
29 1,2-Dichlorobenzene	146	5.383	5.383	(1.045)	352952	50.0000	50.000
30 Benzyl Alcohol	108	5.335	5.335	(1.035)	227239	50.0000	50.000
31 2-Methylphenol	108	5.473	5.473	(1 062)	300009	50.0000	50.000
32 2,2'-oxybis(1-Chloropropane)	45	5.516	5.516	(1.070)	412339	50 0000	50.000
33 N-Nitroso-di-n-propylamine	70	5.676	5.676	(1.102)	237925	50 0000	50.000
35 4-Methylphenol	108	5 639	5.639	(1 094)	330379	50.0000	50.000
38 Hexachloroethane	117	5.735	5.735	(1 113)	134409	50.0000	50.000
39 Nitrobenzene	77	5.842	5 842	(0.870)	354225	50 0000	50.000
44 Isophorone	82	6.125	6.125	(0.912)	619787	50.0000	50.000
45 2-Nitrophenol	139	6.237	6.237	(0.929)	112527	50.0000	50.000
46 2,4-Dimethylphenol	107	6.275	6.275	(0.935)	305902	50 0000	50 000

Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824CCC.D
Report Date: 25-Aug-2000 10:00

Page 2

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
47 bis(2-Chloroethoxy)methane	93	6.408	6.408	(0.955)	394237	50.0000	50.000
51 2,4-Dichlorophenol	162	6.531	6.531	(0.973)	251891	50.0000	50.000
52 Benzoic Acid	122	6.419	6.419	(0.956)	55091	50.0000	50.000 (M)
53 1,2,4-Trichlorobenzene	180	6.659	6.659	(0.992)	284584	50.0000	50.000
54 Naphthalene	128	6.740	6.740	(1.004)	1007017	50.0000	50.000
55 4-Chloroaniline	127	6.841	6.841	(1.019)	381489	50.0000	50.000
59 Hexachlorobutadiene	225	7.001	7.001	(1.043)	173372	50.0000	50.000
62 4-Chloro-3-Methylphenol	107	7.573	7.573	(1.128)	259633	50.0000	50.000
65 2-Methylnaphthalene	142	7.797	7.797	(1.162)	635434	50.0000	50.000
66 1-Methylnaphthalene	142	7.979	7.979	(1.189)	597347	50.0000	50.000
67 Hexachlorocyclopentadiene	237	8.193	8.193	(0.836)	141871	50.0000	50.000
69 2,4,6-Trichlorophenol	196	8.331	8.331	(0.851)	162828	50.0000	50.000
70 2,4,5-Trichlorophenol	196	8.396	8.396	(0.857)	187178	50.0000	50.000 (M)
73 2-Chloronaphthalene	162	8.652	8.652	(0.883)	581912	50.0000	50.000
77 2-Nitroaniline	65	8.914	8.914	(0.910)	136591	50.0000	50.000
80 Dimethylphthalate	163	9.368	9.368	(0.956)	622634	50.0000	50.000
82 2,6-Dinitrotoluene	165	9.491	9.491	(0.969)	114609	50.0000	50.000
83 Acenaphthylene	152	9.475	9.475	(0.967)	906132	50.0000	50.000
85 3-Nitroaniline	138	9.758	9.758	(0.996)	143218	50.0000	50.000
86 Acenaphthene	153	9.859	9.859	(1.007)	575401	50.0000	50.000
87 2,4-Dinitrophenol	184	9.972	9.972	(1.018)	26618	50.0000	50.000
89 4-Nitrophenol	109	10.121	10.121	(1.033)	74565	50.0000	50.000
90 Dibenzofuran	168	10.196	10.196	(1.041)	790966	50.0000	50.000
91 2,4-Dinitrotoluene	165	10.313	10.313	(1.053)	148804	50.0000	50.000
95 2,3,5,6-Tetrachlorophenol	232	10.468	10.468	(1.069)	122931	50.0000	50.000
92 2,3,4,6-Tetrachlorophenol	232	10.570	10.570	(1.079)	144300	50.0000	50.000 (M)
96 2-Naphthylamine	143	10.543	10.543	(1.076)	373569	50.0000	50.000
97 Diethylphthalate	149	10.912	10.912	(1.114)	603786	50.0000	50.000
98 Fluorene	166	10.954	10.954	(1.118)	648917	50.0000	50.000
99 4-Chlorophenyl-phenylether	204	10.987	10.987	(1.122)	307482	50.0000	50.000
100 4-Nitroaniline	138	11.104	11.104	(1.134)	148120	50.0000	50.000
102 4,6-Dinitro-2-methylphenol	198	11.206	11.206	(0.854)	43138	50.0000	50.000
103 N-Nitrosodiphenylamine (1)	169	11.280	11.280	(0.860)	443143	50.0000	50.000
104 1,2-Diphenylhydrazine	77	11.339	11.339	(0.864)	690993	50.0000	50.000
112 4-Bromophenyl-phenylether	248	12.103	12.103	(0.922)	164131	50.0000	50.000
113 Hexachlorobenzene	284	12.413	12.413	(0.946)	179353	50.0000	50.000
117 Pentachlorophenol	266	12.846	12.846	(0.979)	83077	50.0000	50.000 (M)
122 Phenanthrene	178	13.177	13.177	(1.004)	870981	50.0000	50.000
123 Anthracene	178	13.284	13.284	(1.012)	890482	50.0000	50.000
126 Carbazole	167	13.716	13.716	(1.045)	830457	50.0000	50.000
130 Di-n-Butylphthalate	149	14.870	14.870	(1.133)	862822	50.0000	50.000
135 Fluoranthene	202	16.126	16.126	(1.229)	898172	50.0000	50.000
136 Benzidine	184	16.548	16.548	(0.837)	167519	50.0000	50.000 (M)
137 Pyrene	202	16.671	16.671	(0.843)	924793	50.0000	50.000
144 Butylbenzylphthalate	149	18.620	18.620	(0.941)	254636	50.0000	50.000
149 3,3'-Dichlorobenzidine	252	19.785	19.785	(1.000)	329975	50.0000	50.000
150 Benzo(a)Anthracene	228	19.737	19.737	(0.998)	872284	50.0000	50.000

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	=====	==	=====	=====	=====	(ng)	(ng)
151 Chrysene	228	19.838	19.838	{1.003}	848268	50.0000	50.000
153 bis(2-ethylhexyl)Phthalate	149	20.202	20.202	{1.021}	364429	50.0000	50.000 (M)
155 Di-n-octylphthalate	149	21.671	21.671	{0.936}	543125	50.0000	50.000 (M)
157 Benzo(b)fluoranthene	252	22.328	22.328	{0.965}	835985	50.0000	50.000
158 Benzo(k)fluoranthene	252	22.381	22.381	{0.967}	1243290	50.0000	50.000
159 7,12-dimethylbenz(a)anthracen	256	22.387	22.387	{0.967}	509480	50.0000	50.000
167 Benzo(a)pyrene	252	23.022	23.022	{0.995}	842123	50.0000	50.000
169 Indeno(1,2,3-cd)pyrene	276	25.464	25.464	{1.100}	1113025	50.0000	50.000
170 Dibenz(a,h)anthracene	278	25.517	25.517	{1.102}	974398	50.0000	50.000
171 Benzo(g,h,i)perylene	276	26.083	26.083	{1.127}	929890	50.0000	50.000
\$ 172 Nitrobenzene-d5	82	5.821	5.821	{0.867}	329447	50.0000	50.000
\$ 173 2-Fluorobiphenyl	172	8.481	8.481	{0.866}	663189	50.0000	50.000
\$ 174 Terphenyl-d14	244	17.199	17.199	{0.870}	699422	50.0000	50.000
\$ 175 Phenol-d5	99	4.816	4.816	{0.935}	415159	50.0000	50.000
\$ 176 2-Fluorophenol	112	3.807	3.807	{0.739}	327424	50.0000	50.000
\$ 177 2,4,6-Tribromophenol	330	11.542	11.542	{0.880}	67165	50.0000	50.000
\$ 178 2-Chlorophenol-d4	132	4.945	4.945	{0.960}	298859	50.0000	50.000
\$ 179 1,2-Dichlorobenzene-d4	152	5.367	5.367	{1.041}	232033	50.0000	50.000

QC Flag Legend

M - Compound response manually integrated.

Data File Name S0824CCC D

Inj. Date and Time 24-AUG-2000 15:30

Instrument ID 71.1

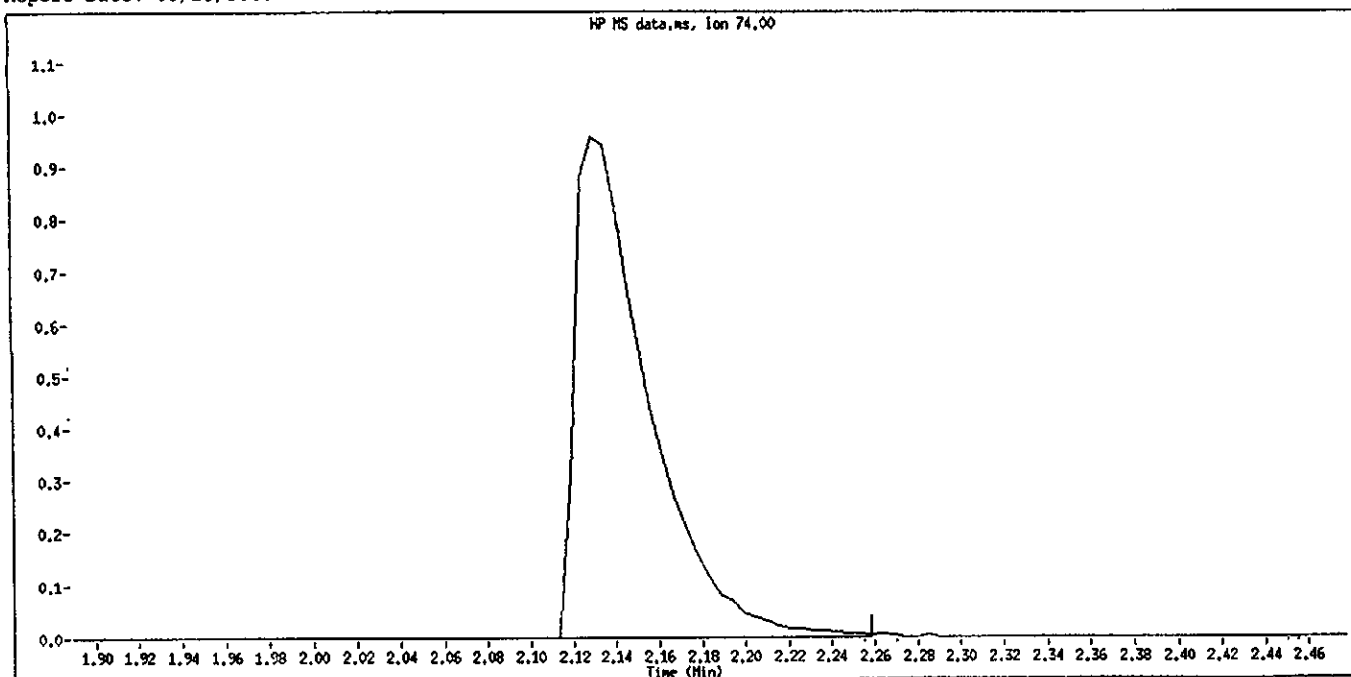
Client ID SST50

Compound Name N-Nitrosodimethylamine

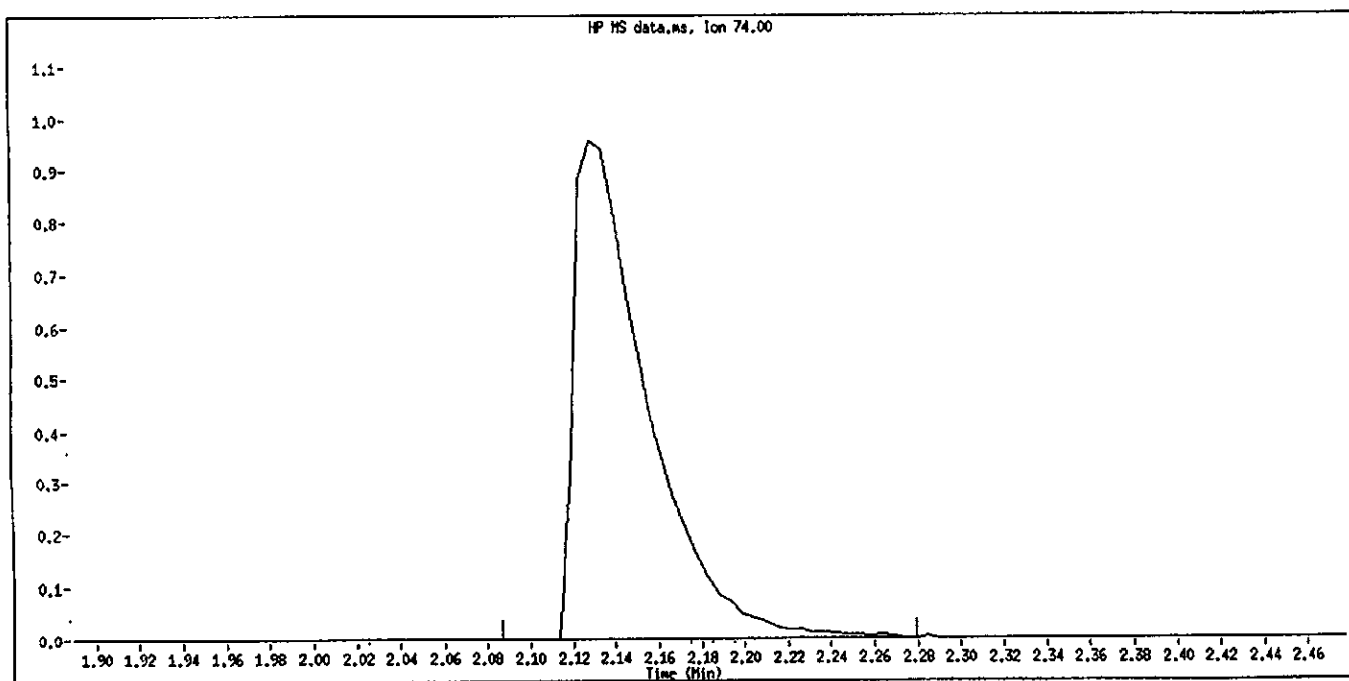
CAS # 62-75-9

Report Date 08/25/2000

669 293



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason Unknown

669 294

Data File Name S0824CCC.D

Inj. Date and Time 24-AUG-2000 15:30

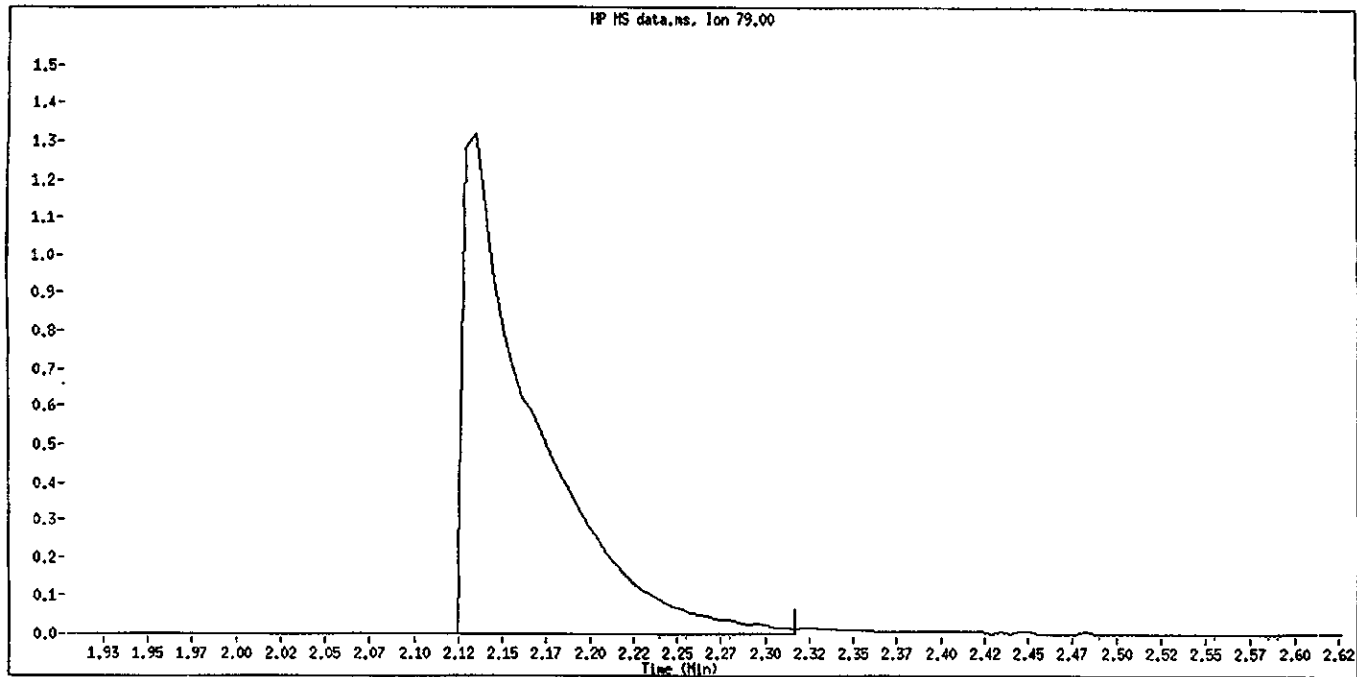
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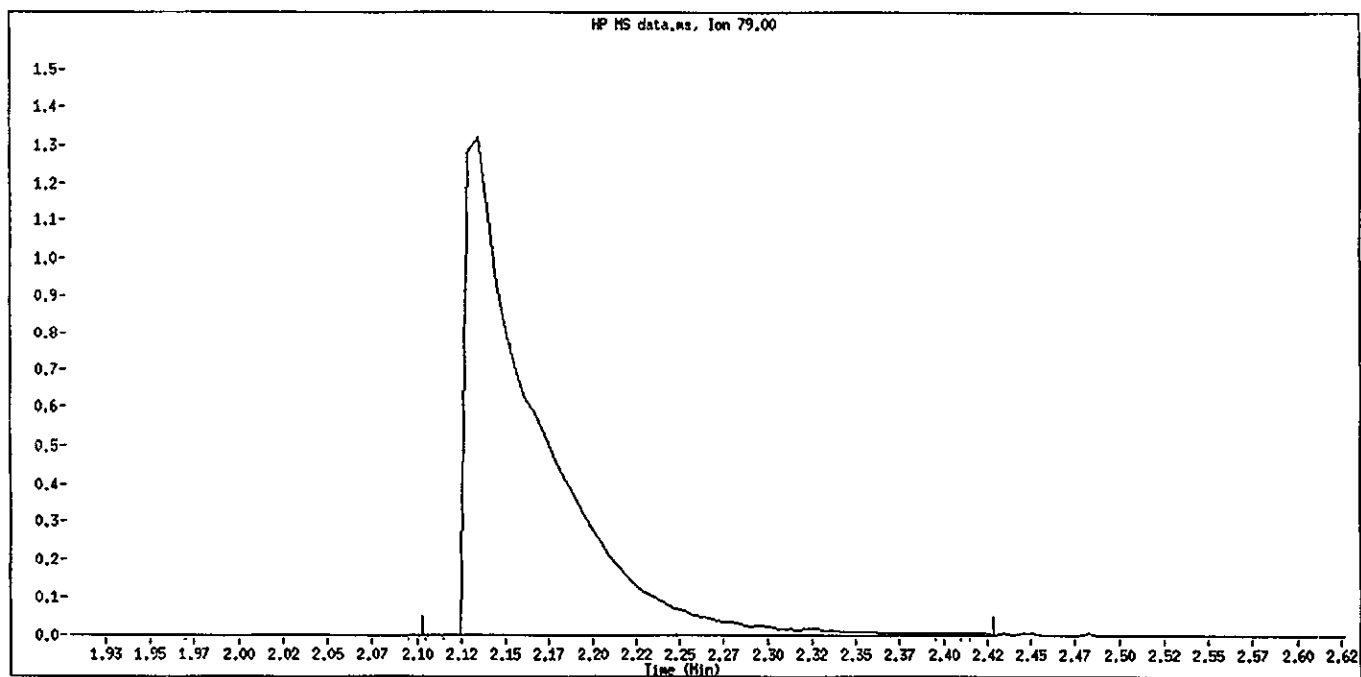
Compound Name Pyridine

CAS #: 110-86-1

Report Date: 08/25/2000



Original Integration

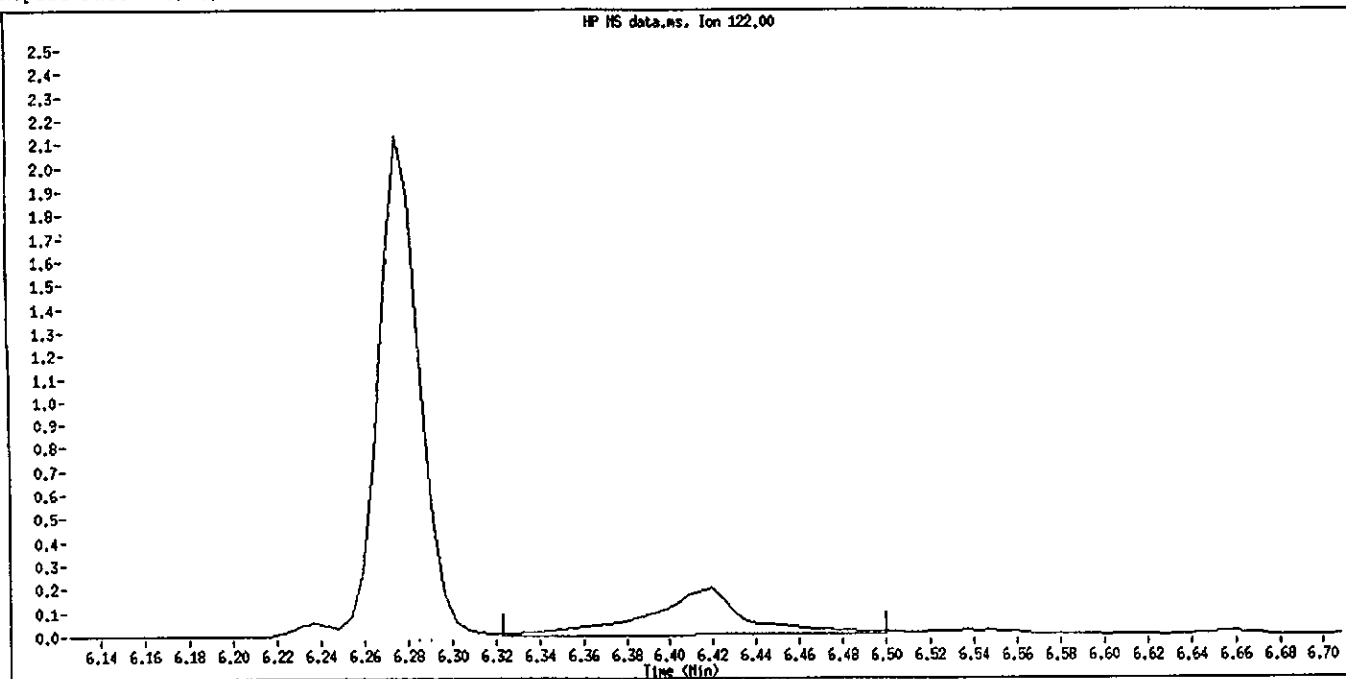


Manual Integration

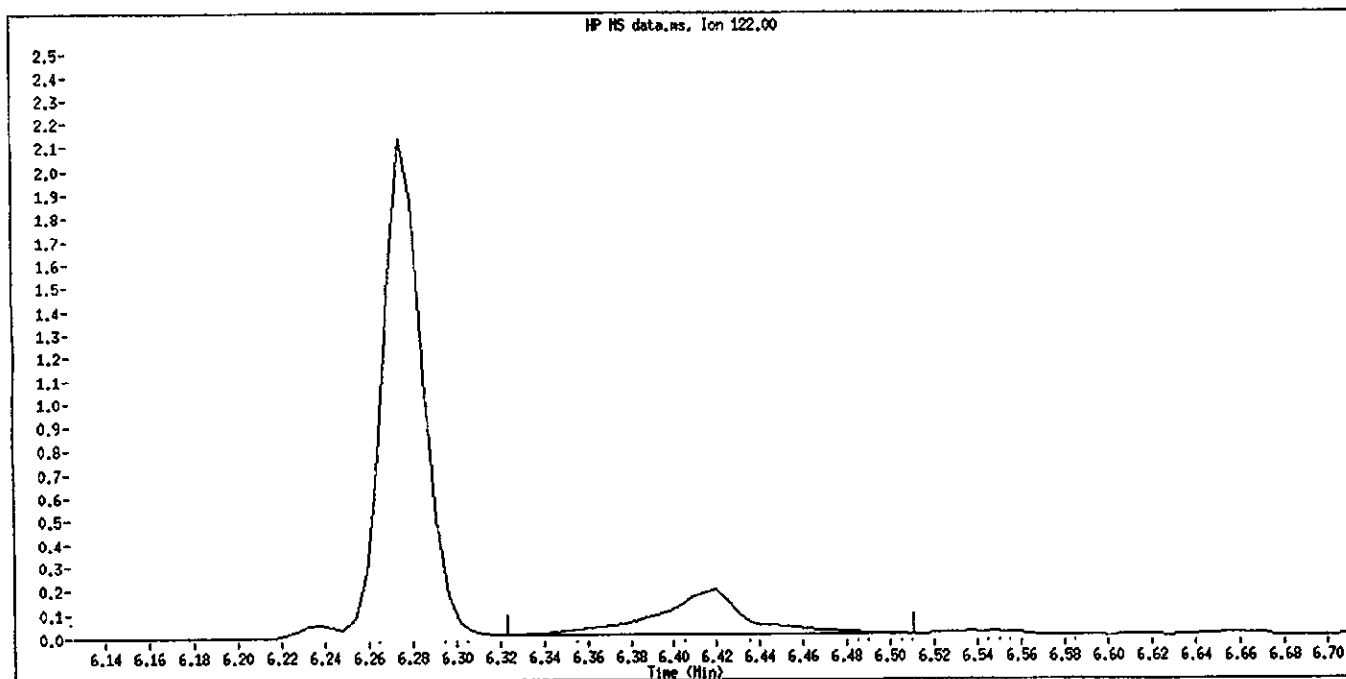
Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File Name: S0824CCC.D
Inj. Date and Time: 24-AUG-2000 15:30
Instrument ID: 71.1
Client ID: SST050
Compound Name: Benzoic Acid
CAS #: 65-85-0
Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: Bachas
Manual Integration Reason: Unknown

669 296

Data File Name: 57714CCC.D

Inj. Date and Time: 24-AUG-2000 15:30

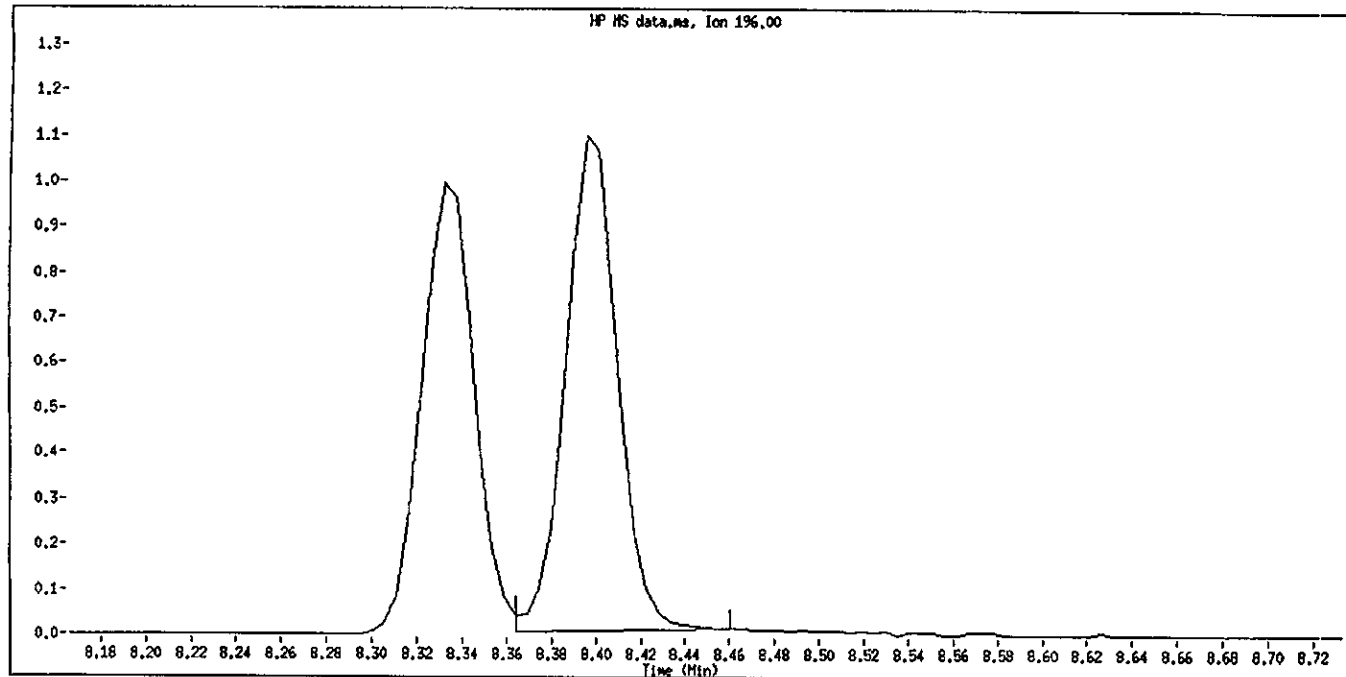
Instrument ID: 71.1

Client ID: SST50

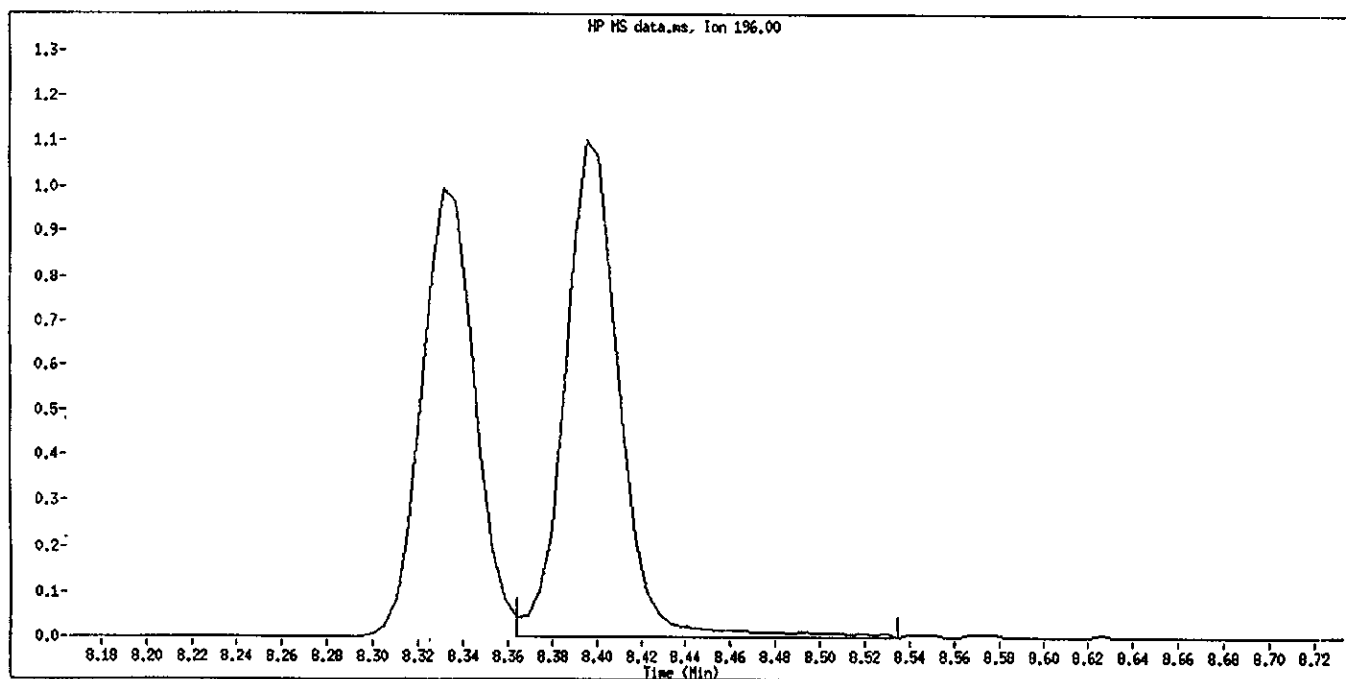
Compound Name: 2,4,5-Trichlorophenol

CAS #: 95-95-4

Report Date: 08/25/2000



Original Integration



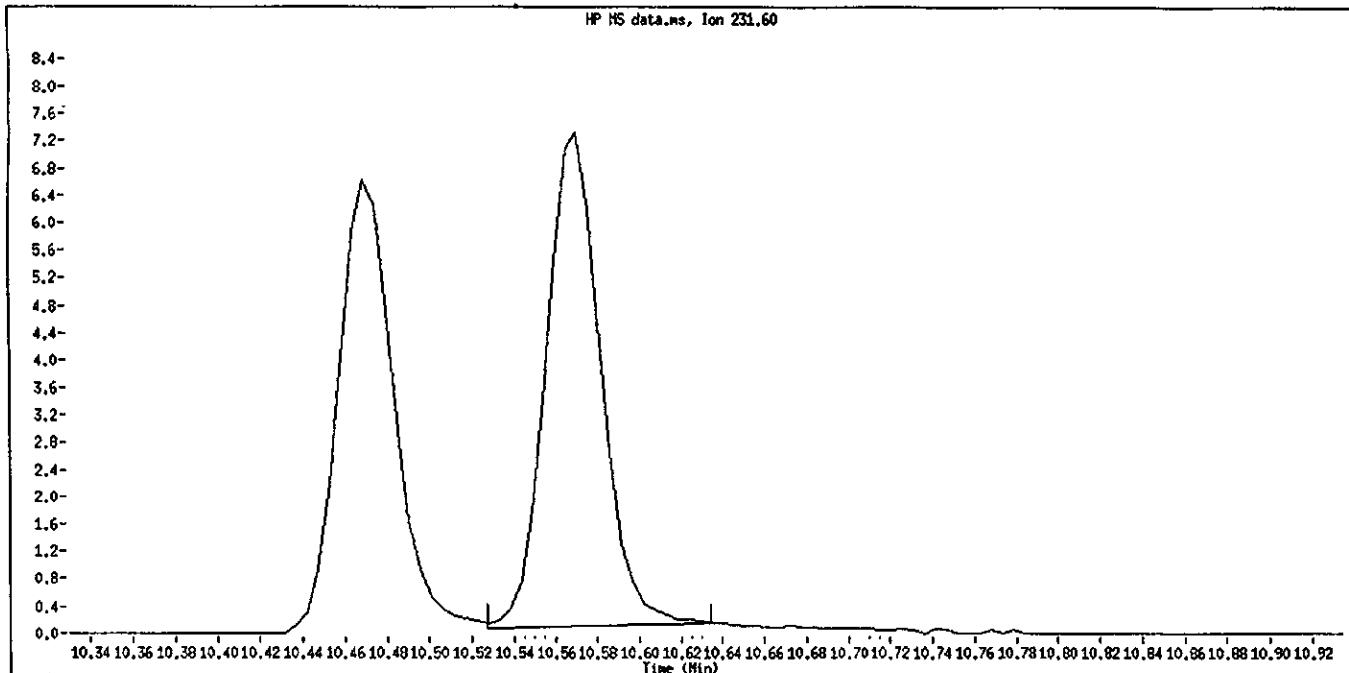
Manual Integration

Manually Integrated By: BachaS

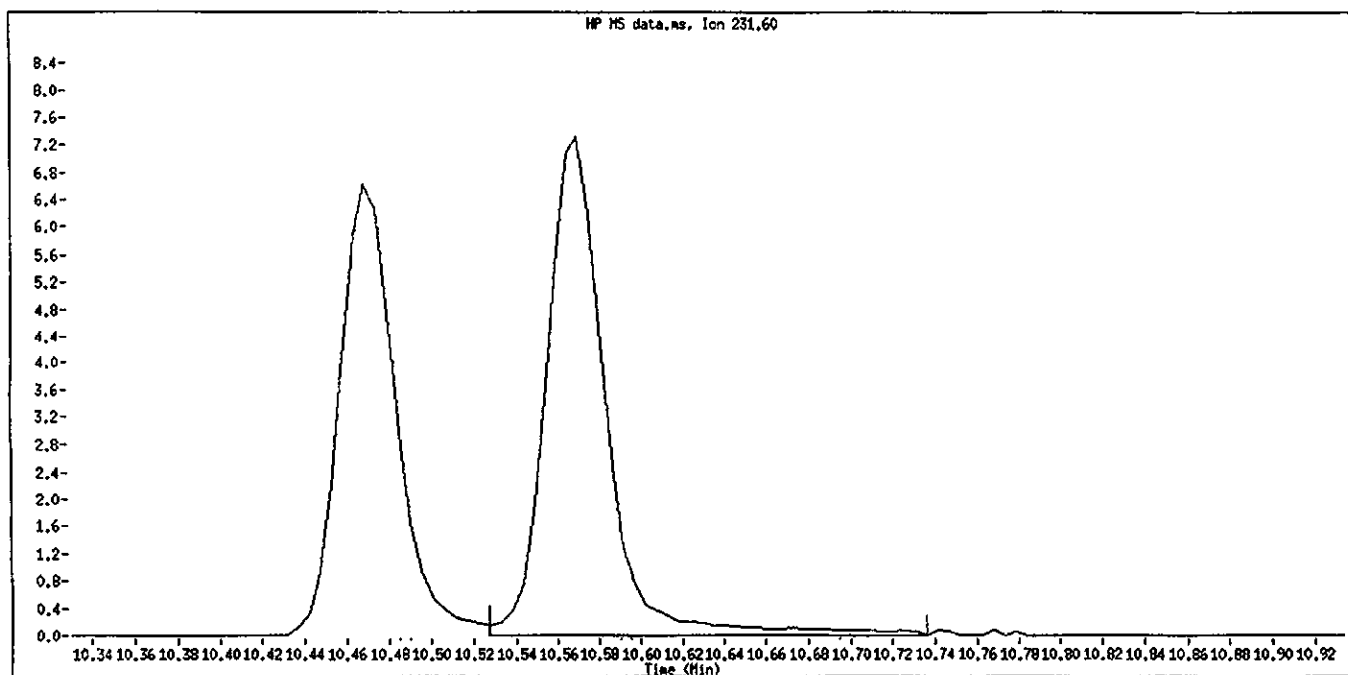
Manual Integration Reason: Poor Chromatography

Data File Name S0824CCC D
Inj. Date and Time: 24-AUG-2000 15:30
Instrument ID 71.1
Client ID. SST050
Compound Name: 2,3,4,6-Tetrachlorophenol
CAS #: 58-90-2
Report Date: 08/25/2000

669 297



Original Integration

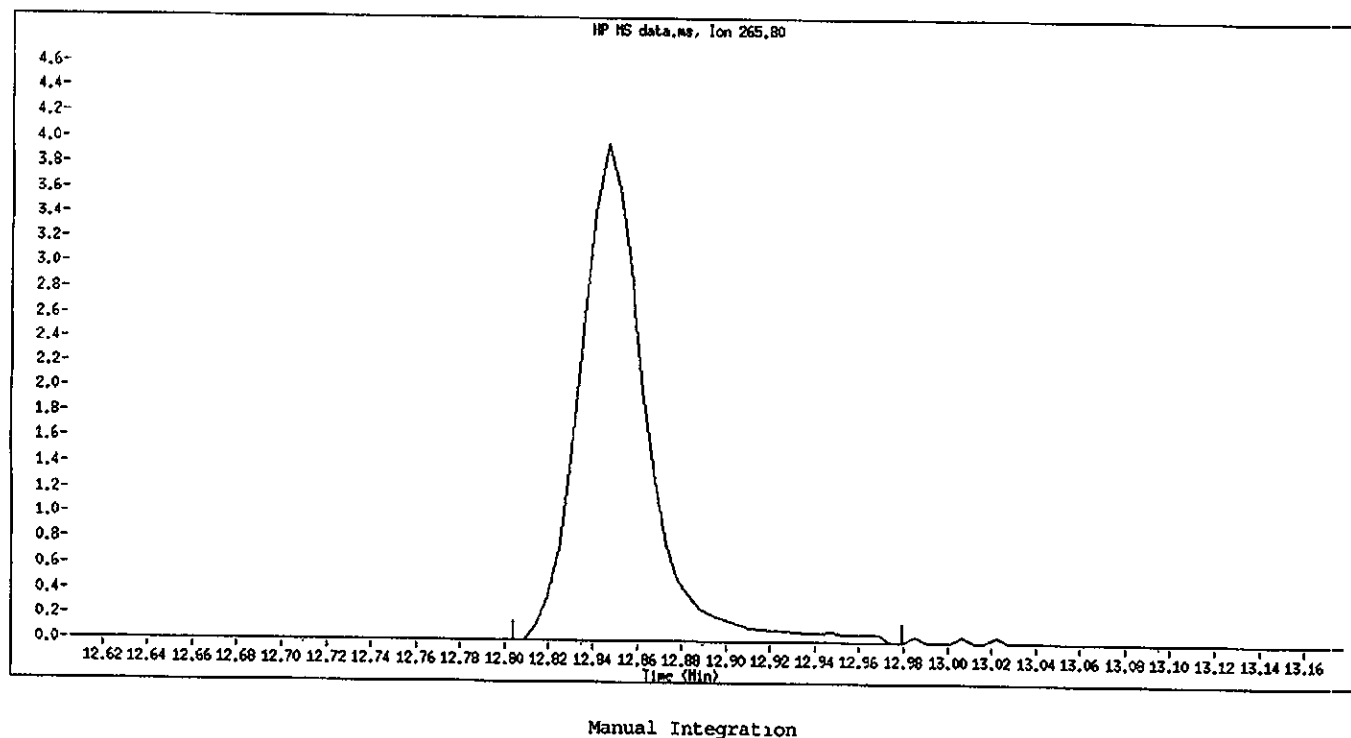
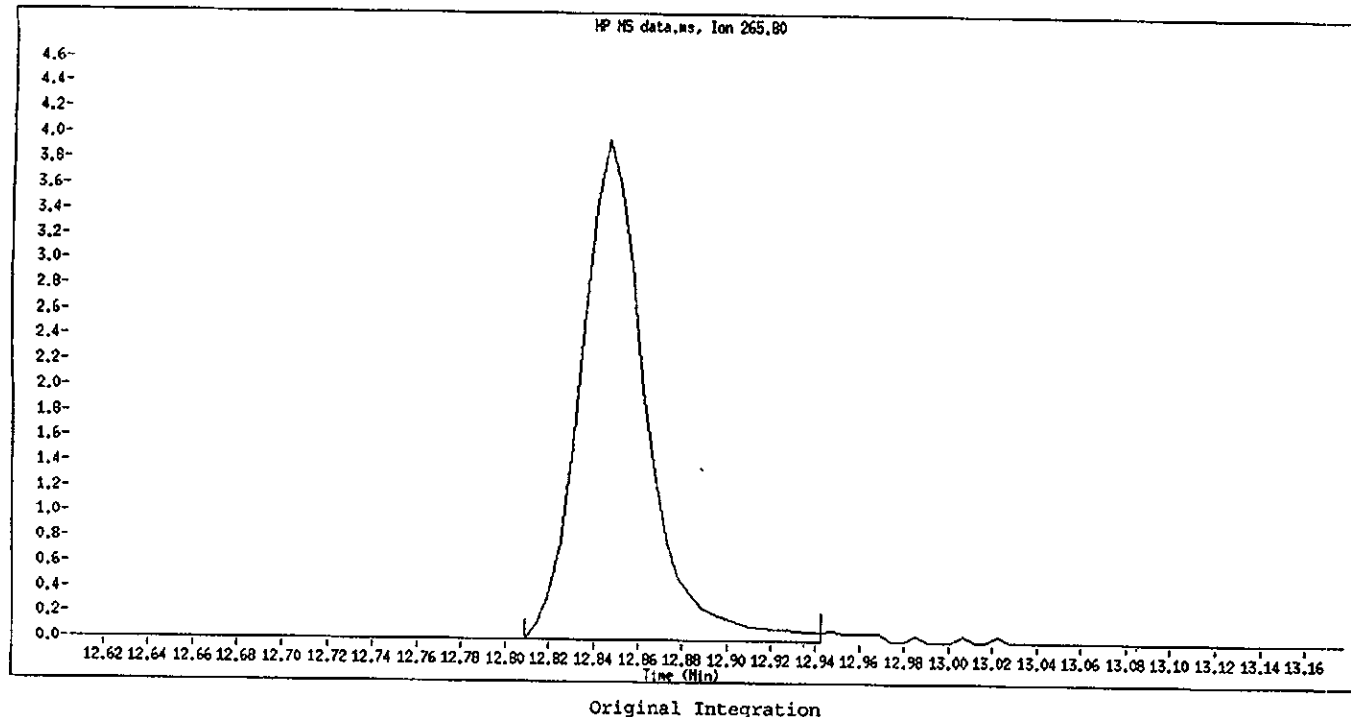


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 298

Data File Name S0824CCC.D
Inj. Date and Time 24-AUG-2000 15:30
Instrument ID: 71 i
Client ID: SST050
Compound Name: Pentachlorophenol
CAS # 87-86-5
Report Date: 08/25/2000



Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Inj. Date and Time: 24-AUG-2000 15:30

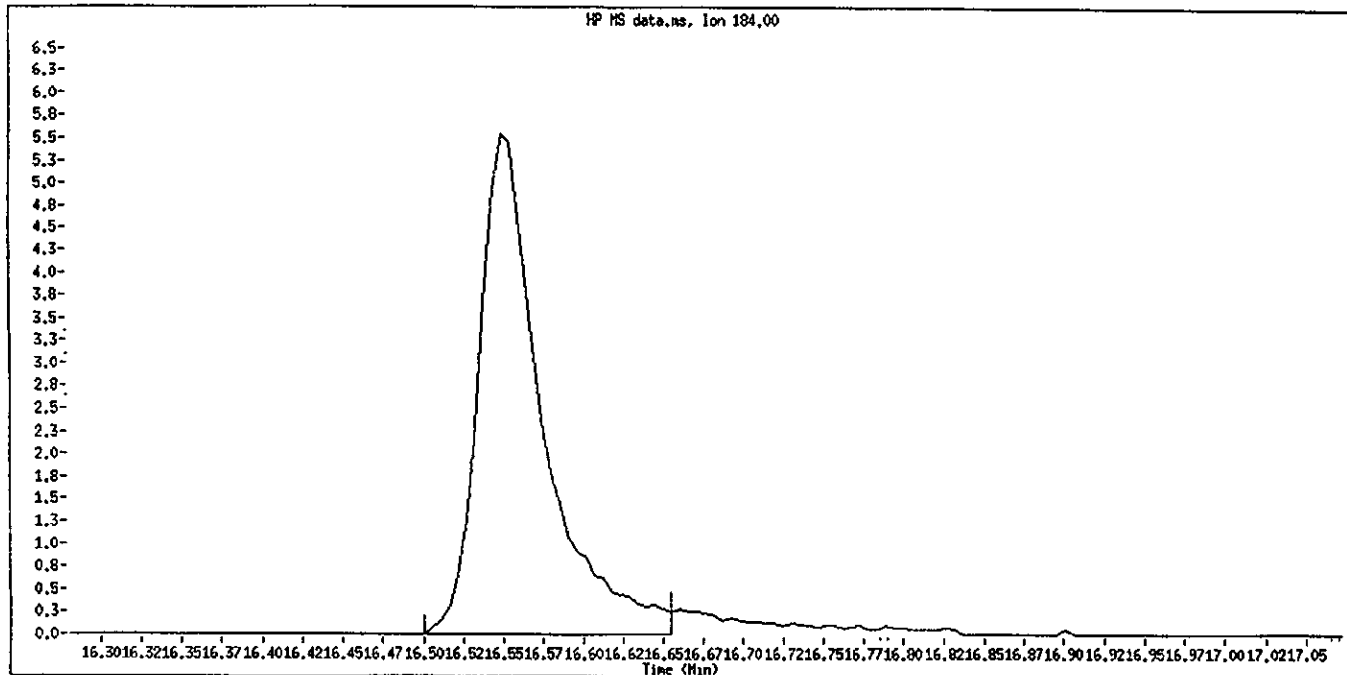
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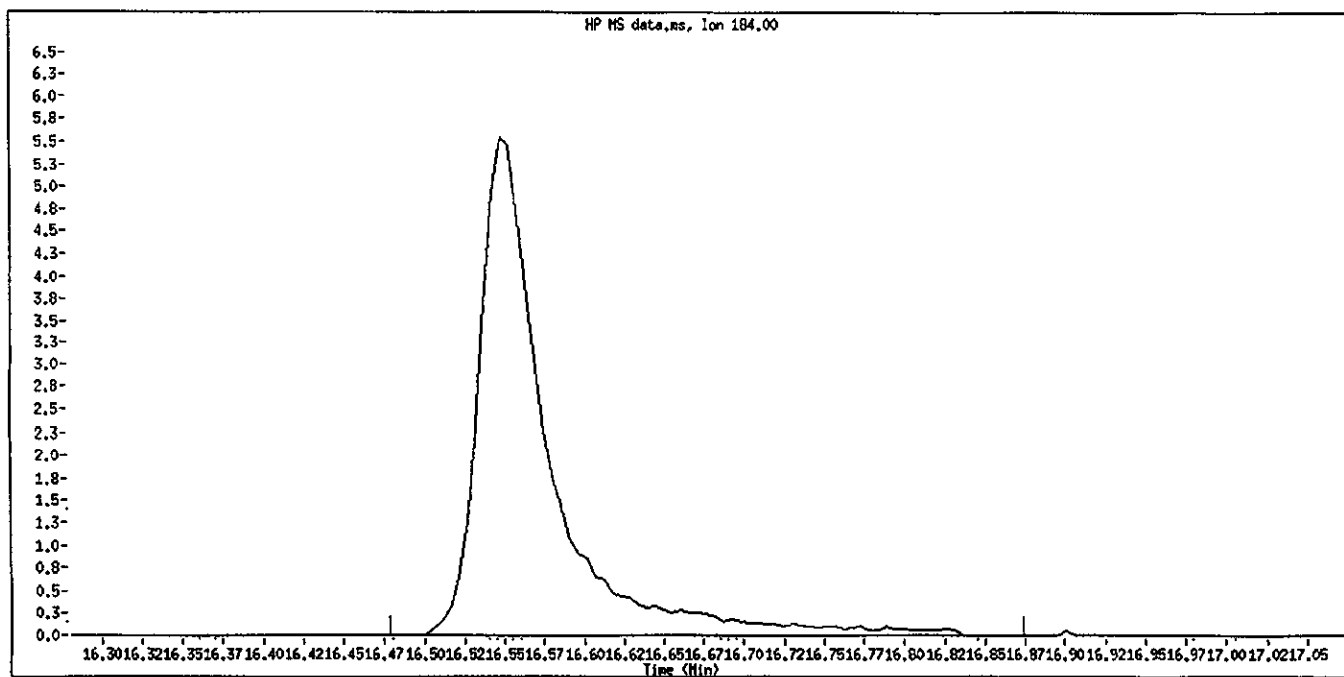
Compound Name: Benzidine

CAS #: 92-87-5

Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

669 300

Data File Name: S0824CCC.D

Inj. Date and Time: 24-AUG-2000 15:30

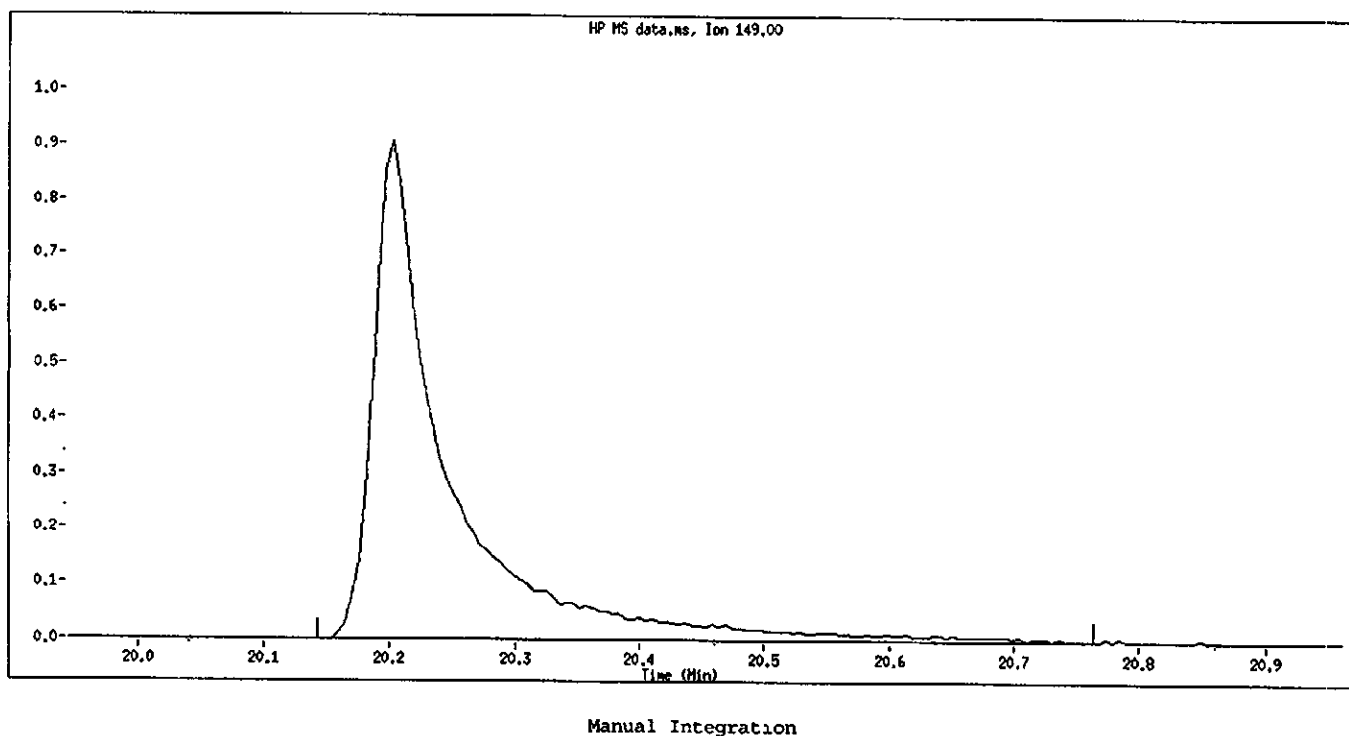
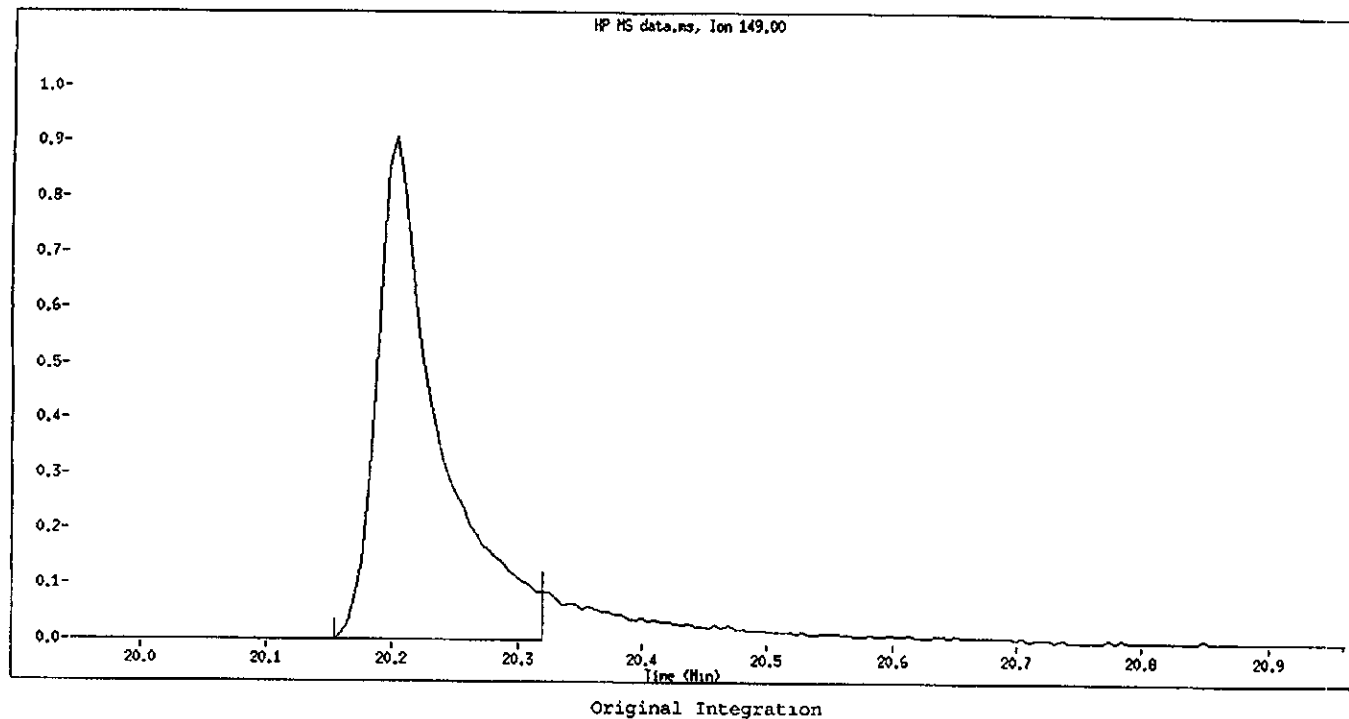
Instrument ID: 71.1

Client ID: SSTD50

Compound Name: bis(2-ethylhexyl)Phthalate

CAS #: 117-81-7

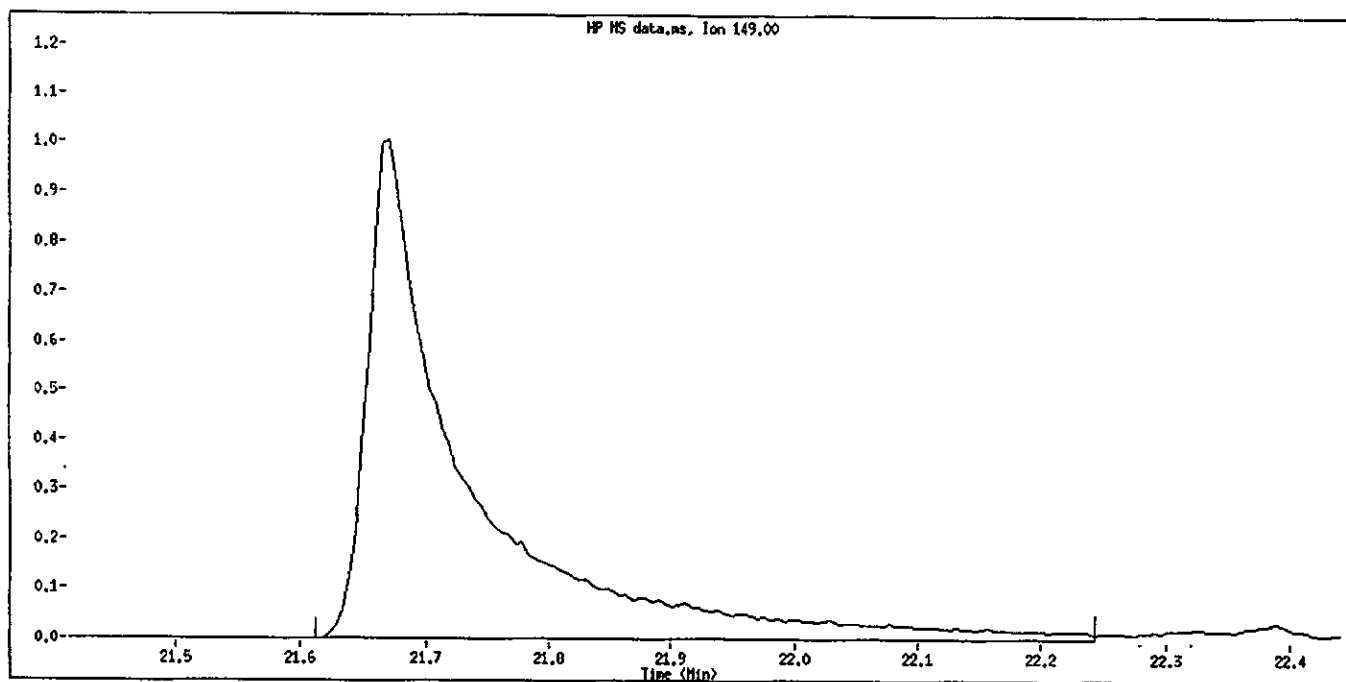
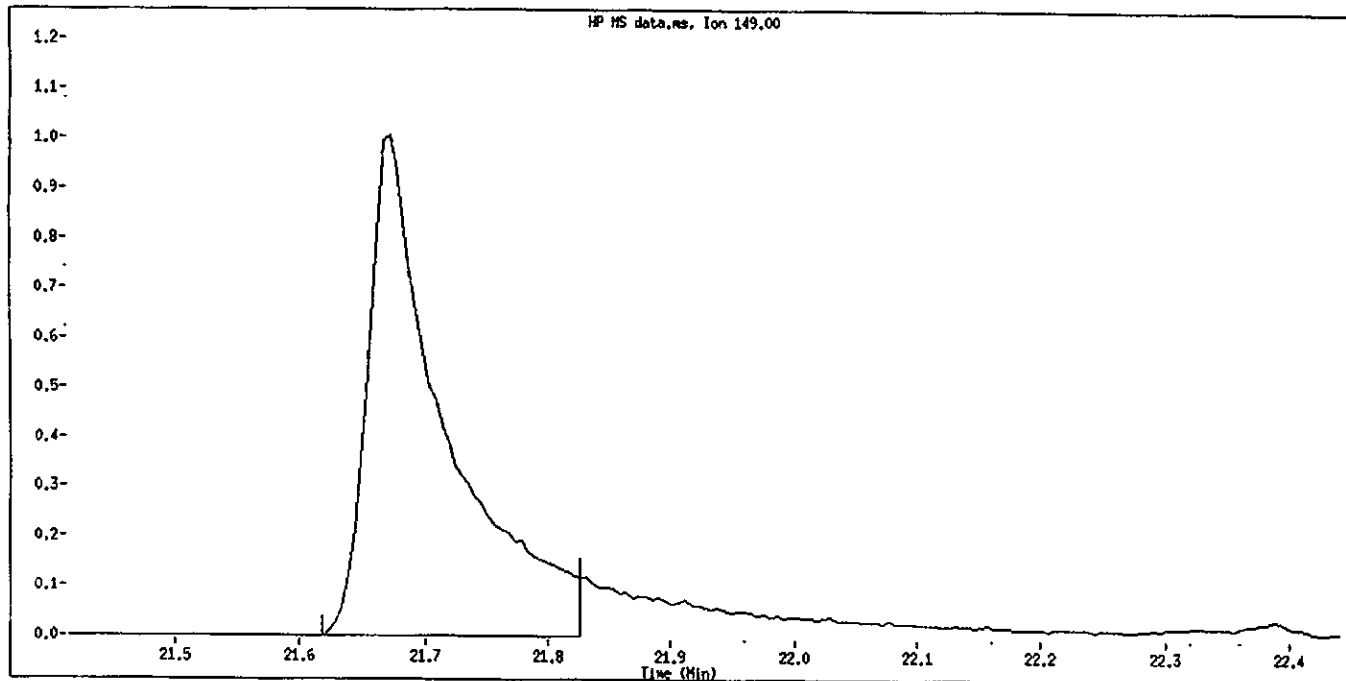
Report Date: 08/25/2000



Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

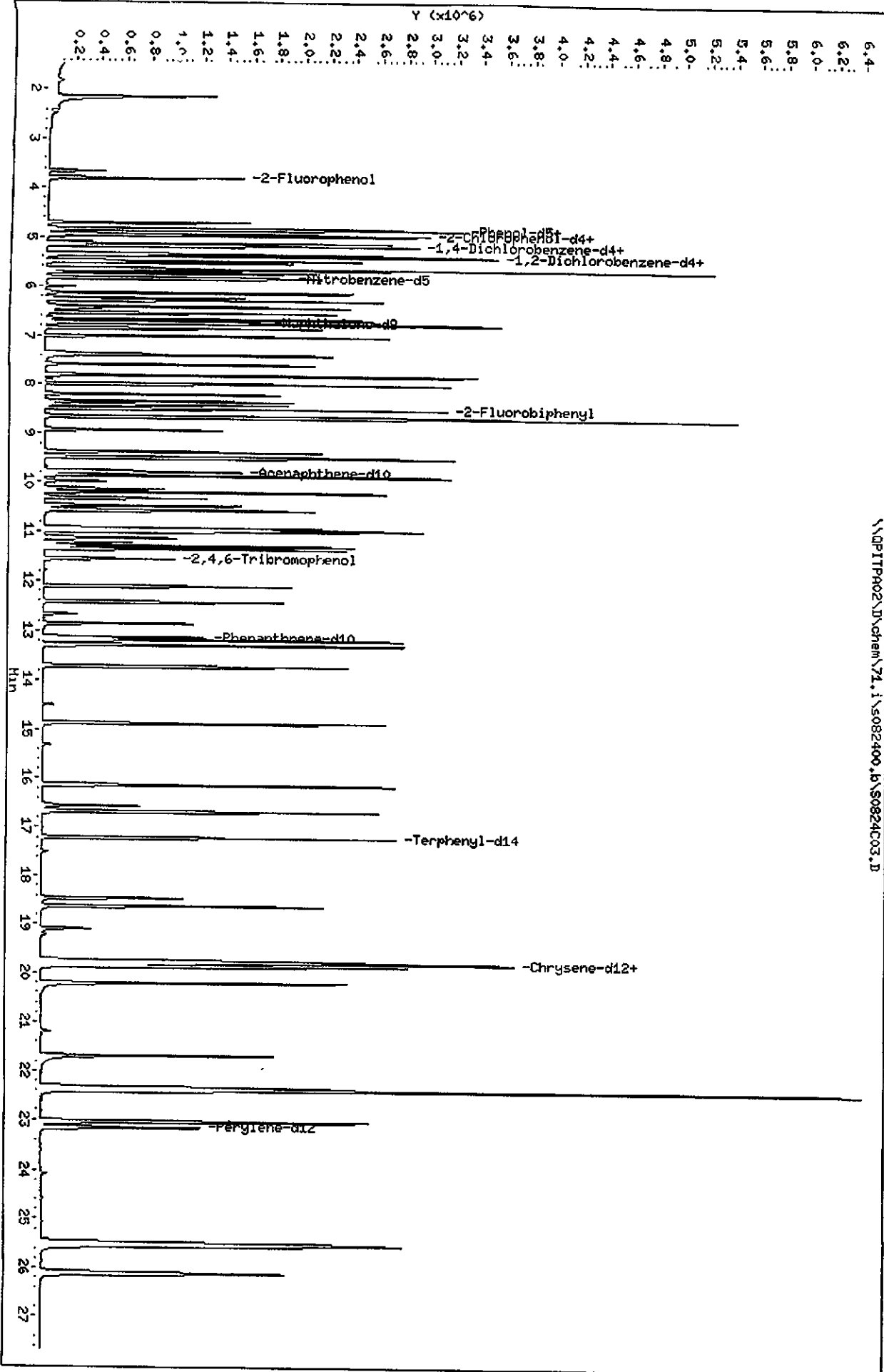
Data File Name S0824CCC.D
Inj Date and Time: 24-AUG-2000 15:30
Instrument ID. 71.1.1
Client ID: SST50
Compound Name. Di-n-octylphthalate
CAS #: 117-84-0
Report Date: 08/25/2000



Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File: \\QIPITP02\JN\chem\71.1\5082400.b\5082403.D
Date: 24-AUG-2000 16:38
Client ID: SST080
Sample Info: sst080(40 ug/ml) 194-188-5 8270/c/p
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

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

						AMOUNTS		
		QUANT	SIG			CAL-AMT	ON-COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
*****		****	==	=====	=====	=====	=====	=====
*	1 1,4-Dichlorobenzene-d4	152	5 158	5 158	(1.000)	321416	40 0000	
*	2 Naphthalene-d8	136	6 718	6.718	(1 000)	1178912	40 0000	
*	3 Acenaphthene-d10	164	9.800	9 800	(1.000)	665606	40.0000	
*	4 Phenanthrene-d10	188	13 134	13.134	(1 000)	1153929	40 0000	
*	5 Chrysene-d12	240	19 795	19.795	(1 000)	1295147	40.0000	
*	6 Perylene-d12	264	23.166	23.166	(1 000)	1106796	40 0000	
	13 N-Nitrosodimethylamine	74	2.139	2.139	(0.415)	546797	80.0000	78.450 (M)
	10 Pyridine	79	2.134	2.134	(0 414)	904018	80.0000	77.357 (M)
	19 Methyl methanesulfonate	80	3 662	3.662	(0 710)	261923	80.0000	77.351
	22 Aniline	93	4.853	4 853	(0 941)	1124107	80 0000	77.505
	23 Phenol	94	4.837	4.837	(0 938)	1159962	80.0000	78 553
	24 bis (2-Chloroethyl) ether	93	4.923	4.923	(0 954)	865373	80.0000	77 413
	25 2-Chlorophenol	128	4.965	4.965	(0 963)	833632	80.0000	78 890
	27 1,3-Dichlorobenzene	146	5.120	5.120	(0 993)	912536	80.0000	78.032
	28 1,4-Dichlorobenzene	146	5.179	5 179	(1.004)	933911	80.0000	78.174
	29 1,2-Dichlorobenzene	146	5.387	5.387	(1 045)	864185	80.0000	77.963
	30 Benzyl Alcohol	108	5.339	5.339	(1.035)	595334	80.0000	80.686 (M)
	31 2-Methylphenol	108	5.484	5.484	(1.063)	763079	80.0000	79 334
	32 2,2'-oxybis(1-Chloropropane)	45	5 521	5.521	(1.070)	993367	80.0000	76.994
	33 N-Nitroso-di-n-propylamine	70	5.687	5 687	(1.103)	581683	80.0000	77.899
	35 4-Methylphenol	108	5.644	5.644	(1.094)	813009	80 0000	78 453
	38 Hexachloroethane	117	5.740	5 740	(1.113)	335684	80 0000	79.003
	39 Nitrobenzene	77	5.852	5 852	(0.871)	870463	80.0000	78.061
	44 Isophorone	82	6.130	6.130	(0.913)	1522726	80 0000	78 213
	45 2-Nitrophenol	139	6.242	6 242	(0.929)	385689	80.0000	95.482
	46 2,4-Dimethylphenol	107	6.285	6.285	(0.936)	795574	80.0000	80.462

Handwritten signature/initials

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
47 bis(2-Chloroethoxy)methane	93	6.419	6.419	(0.955)	974656	80.0000	78.521
51 2,4-Dichlorophenol	162	6.536	6.536	(0.973)	673765	80.0000	82.696
52 Benzoic Acid	122	6.461	6.461	(0.962)	298636	80.0000	118.68 (M)
53 1,2,4-Trichlorobenzene	180	6.664	6.664	(0.992)	742493	80.0000	80.951
54 Naphthalene	128	6.750	6.750	(1.005)	2417089	80.0000	76.324
55 4-Chloroaniline	127	6.851	6.851	(1.020)	990860	80.0000	80.845
59 Hexachlorobutadiene	225	7.006	7.006	(1.043)	454693	80.0000	82.220
62 4-Chloro-3-Methylphenol	107	7.583	7.583	(1.129)	707653	80.0000	84.142
65 2-Methylnaphthalene	142	7.802	7.802	(1.161)	1595724	80.0000	78.973
66 1-Methylnaphthalene	142	7.989	7.989	(1.189)	1516240	80.0000	79.497
67 Hexachlorocyclopentadiene	237	8.197	8.197	(0.836)	454682	80.0000	92.444
69 2,4,6-Trichlorophenol	196	8.342	8.342	(0.851)	469461	80.0000	84.907
70 2,4,5-Trichlorophenol	196	8.411	8.411	(0.858)	526809	80.0000	83.366 (M)
73 2-Chloronaphthalene	162	8.662	8.662	(0.884)	1504070	80.0000	78.462
77 2-Nitroaniline	65	8.929	8.929	(0.911)	431593	80.0000	92.133
80 Dimethylphthalate	163	9.378	9.378	(0.957)	1691985	80.0000	80.797
82 2,6-Dinitrotoluene	165	9.506	9.506	(0.970)	356769	80.0000	91.399
83 Acenaphthylene	152	9.480	9.480	(0.967)	2380305	80.0000	79.326
85 3-Nitroaniline	138	9.773	9.773	(0.997)	437413	80.0000	88.887
86 Acenaphthene	153	9.870	9.870	(1.007)	1515602	80.0000	79.006
87 2,4-Dinitrophenol	184	9.987	9.987	(1.019)	125895	80.0000	122.14
89 4-Nitrophenol	109	10.137	10.137	(1.034)	215888	80.0000	87.468
90 Dibenzofuran	168	10.206	10.206	(1.041)	2120644	80.0000	79.499
91 2,4-Dinitrotoluene	165	10.329	10.329	(1.054)	466355	80.0000	92.753
95 2,3,5,6-Tetrachlorophenol	232	10.479	10.479	(1.069)	393043	80.0000	91.180
92 2,3,4,6-Tetrachlorophenol	232	10.580	10.580	(1.080)	431532	80.0000	86.894 (M)
96 2-Naphthylamine	143	10.559	10.559	(1.077)	942395	80.0000	72.707
97 Diethylphthalate	149	10.927	10.927	(1.115)	1690511	80.0000	82.757
98 Fluorene	166	10.965	10.965	(1.119)	1760174	80.0000	81.205
99 4-Chlorophenyl-phenylether	204	10.997	10.997	(1.122)	855677	80.0000	82.449
100 4-Nitroaniline	138	11.130	11.130	(1.136)	432955	80.0000	86.955
102 4,6-Dinitro-2-methylphenol	198	11.226	11.226	(0.855)	198282	80.0000	118.83
103 N-Nitrosodiphenylamine (1)	169	11.291	11.291	(0.860)	1263183	80.0000	81.869
104 1,2-Diphenylhydrazine	77	11.355	11.355	(0.865)	1762296	80.0000	78.008
112 4-Bromophenyl-phenylether	248	12.113	12.113	(0.922)	478158	80.0000	85.032
113 Hexachlorobenzene	284	12.423	12.423	(0.946)	524399	80.0000	85.000
117 Pentachlorophenol	266	12.856	12.856	(0.979)	283178	80.0000	100.03 (M)
122 Phenanthrene	178	13.187	13.187	(1.004)	2357287	80.0000	80.094
123 Anthracene	178	13.299	13.299	(1.013)	2444747	80.0000	81.586
126 Carbazole	167	13.732	13.732	(1.046)	2269417	80.0000	81.691
130 Di-n-Butylphthalate	149	14.875	14.875	(1.133)	2629288	80.0000	88.616
135 Fluoranthene	202	16.141	16.141	(1.229)	2495514	80.0000	83.981
136 Benzidine	184	16.558	16.558	(0.836)	727309	80.0000	103.84
137 Pyrene	202	16.686	16.686	(0.843)	2578327	80.0000	77.416
144 Butylbenzylphthalate	149	18.631	18.631	(0.941)	1047318	80.0000	100.45
149 3,3'-Dichlorobenzidine	252	19.801	19.801	(1.000)	1095632	80.0000	91.451
150 Benzo(a)Anthracene	228	19.752	19.752	(0.998)	2521171	80.0000	81.401

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

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----	-----
151 Chrysene	228	19.865	19.865	(1.004)	2414109	80 0000	79.355
153 bis(2-ethylhexyl)Phthalate	149	20.207	20.207	(1.021)	1471809	80 0000	101.49 (M)
155 Di-n-octylphthalate	149	21.686	21 686	(0.936)	2339641	80 0000	107.45
157 Benzo(b)fluoranthene	252	22.349	22 349	(0.965)	2663139	80 0000	87.687
158 Benzo(k)fluoranthene	252	22.413	22 413	(0.967)	3651619	80.0000	86.048
159 7,12-dimethylbenz[a]anthracen	256	22.413	22.413	(0.967)	1643251	80 0000	93.396
167 Benzo(a)pyrene	252	23.049	23.049	(0.995)	2586545	80 0000	86.468
169 Indeno(1,2,3-cd)pyrene	276	25.506	25.506	(1.101)	3542909	80.0000	89.703
170 Dibenz(a,h)anthracene	278	25.549	25 549	(1.103)	3228416	80 0000	91.844
171 Benzo(g,h,i)perylene	276	26.120	26 120	(1.128)	2850535	80.0000	86.667
\$ 172 Nitrobenzene-d5	82	5.831	5.831	(0.868)	836196	80.0000	79.595
\$ 173 2-Fluorobiphenyl	172	8.491	8 491	(0.866)	1702039	80.0000	77.170
\$ 174 Terphenyl-d14	244	17.215	17.215	(0.870)	2018423	80 0000	79.784
\$ 175 Phenol-d5	99	4.821	4.821	(0.935)	1038331	80 0000	78.672
\$ 176 2-Fluorophenol	112	3.812	3.812	(0.739)	815511	80 0000	78.756
\$ 177 2,4,6-Tribromophenol	330	11.552	11 552	(0.880)	224627	80 0000	93 199
\$ 178 2-Chlorophenol-d4	132	4.949	4 949	(0.960)	760977	80.0000	79.685
\$ 179 1,2-Dichlorobenzene-d4	152	5.371	5.371	(1.041)	572363	80 0000	77 948

QC Flag Legend

M - Compound response manually integrated.

669 306

Data File Name. S0824C03.D

Inj. Date and Time 24-AUG-2000 16:38

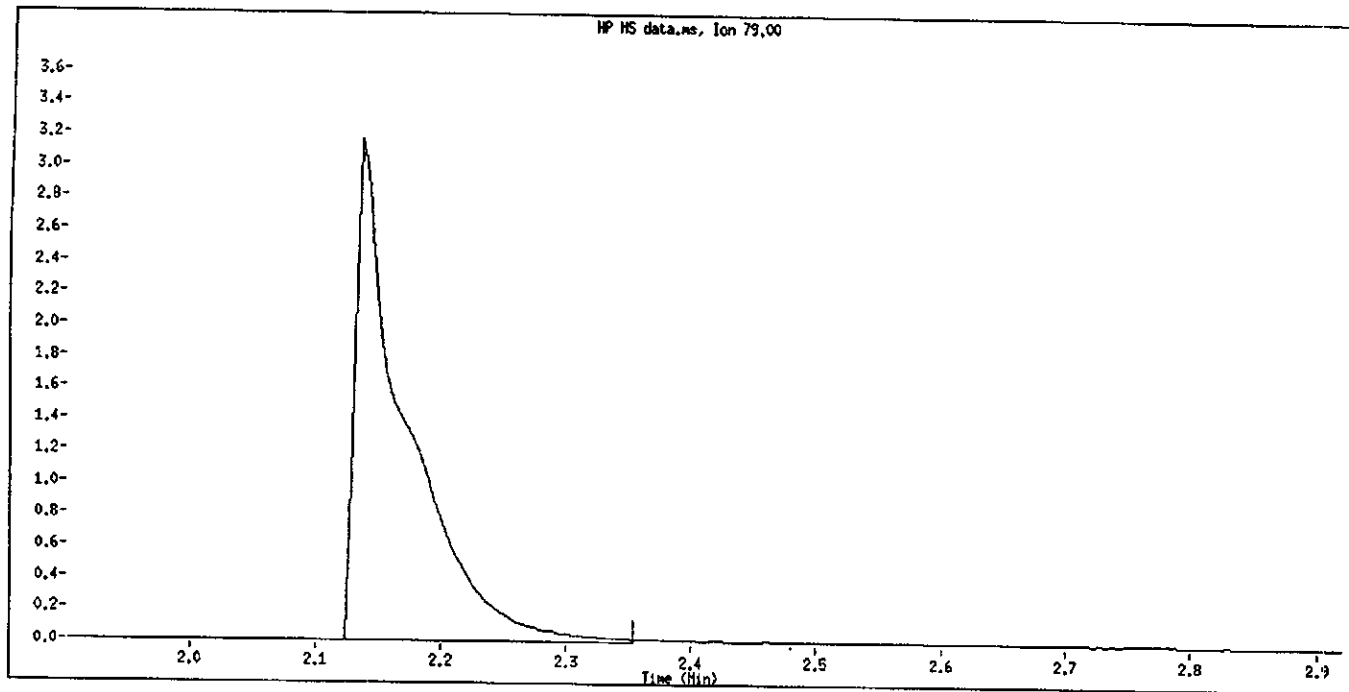
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Client ID SST080

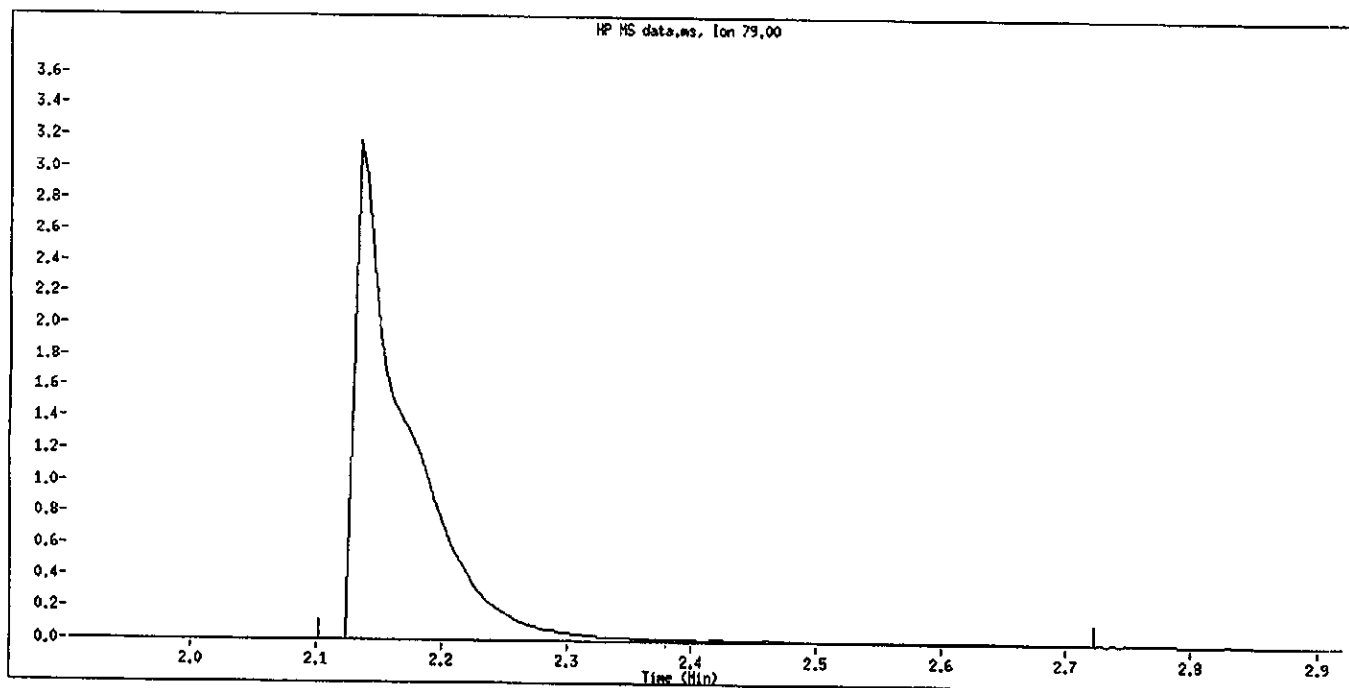
Compound Name Pyridine

CAS #: 110-86-1

Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Unknown

Inj. Date and Time: 24-AUG-2000 16:38

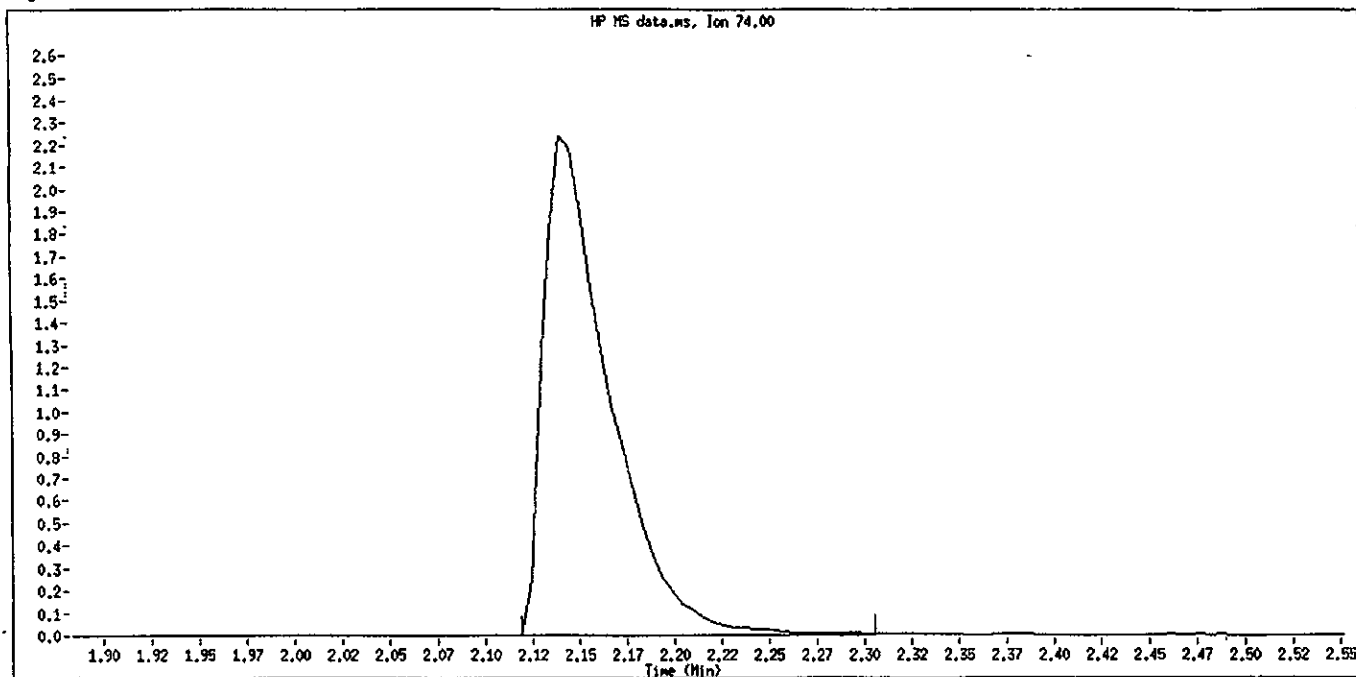
Instrument ID: 71.1

Client ID: SST080

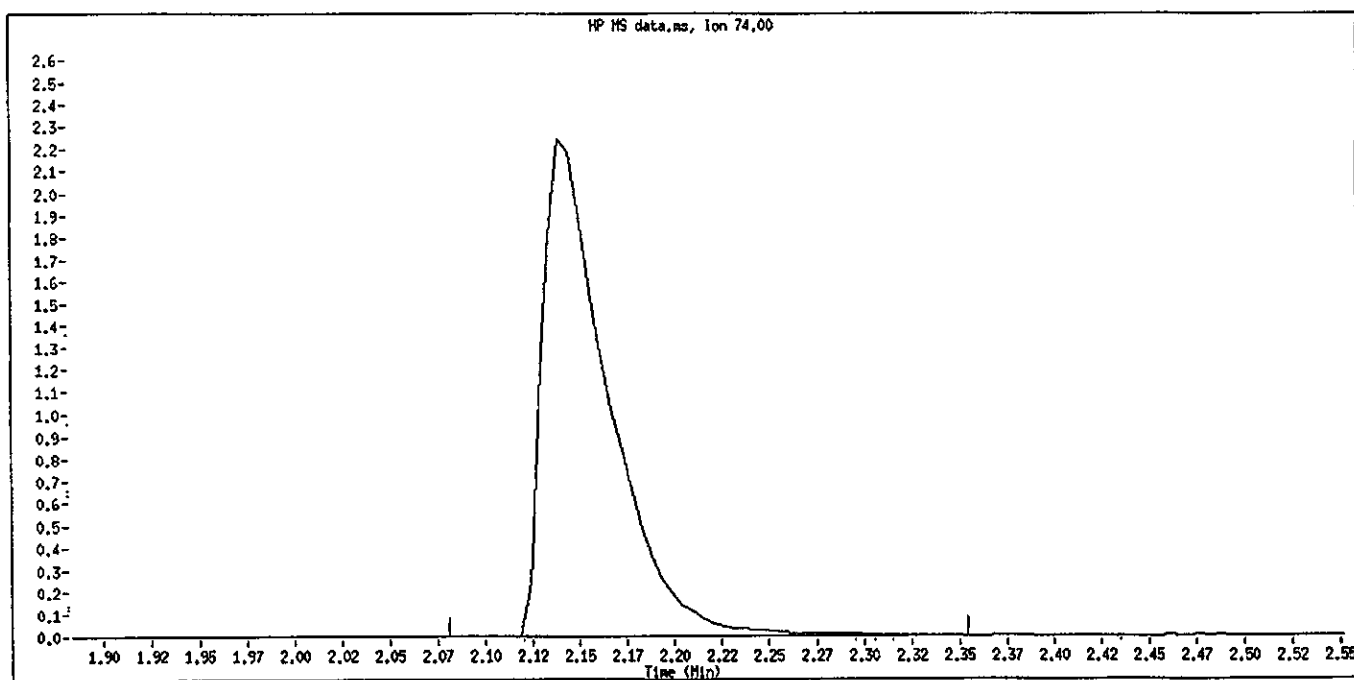
Compound Name: N-Nitrosodimethylamine

CAS #: 62-75-9

Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: Bachas

Manual Integration Reason: Unknown

669 308

Data File Name: S0824C03.D

Inj Date and Time: 24-AUG-2000 16:38

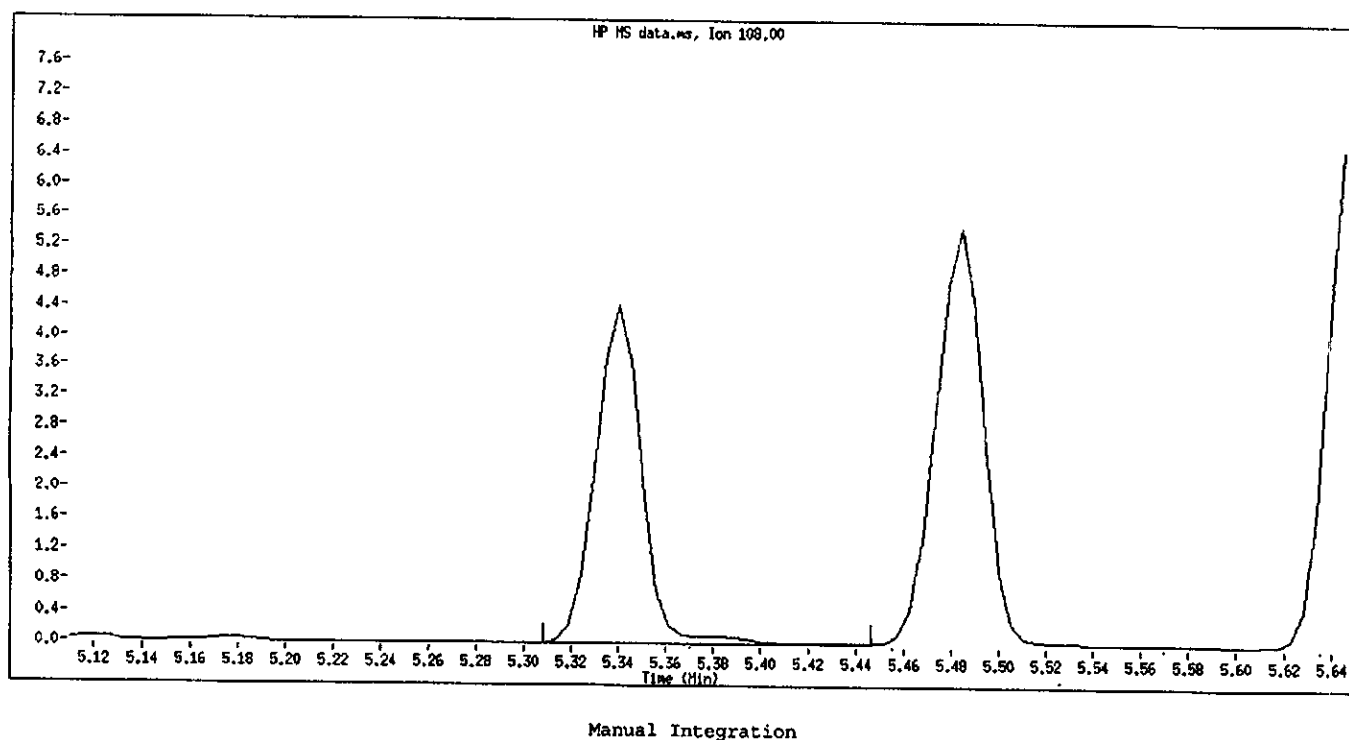
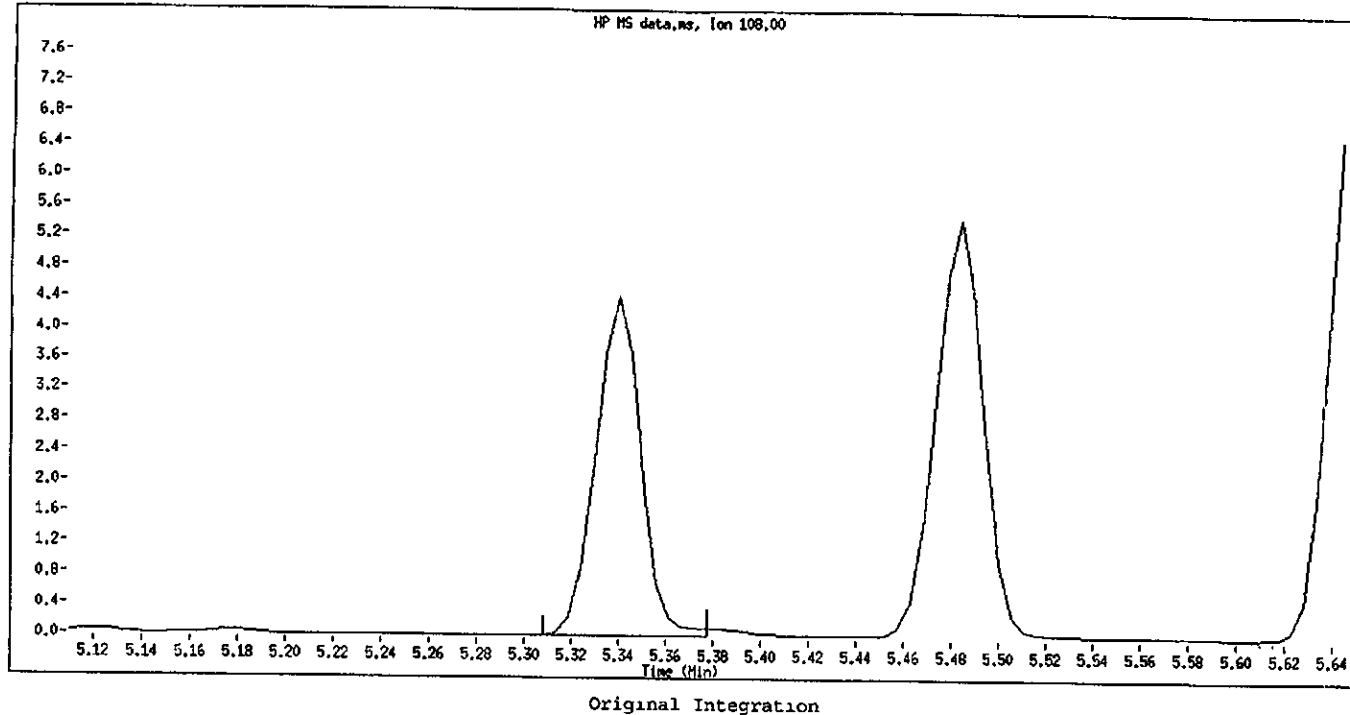
Instrument ID: 71.i

Client ID: SST080

Compound Name: Benzyl Alcohol

CAS #: 100-51-6

Report Date: 08/25/2000

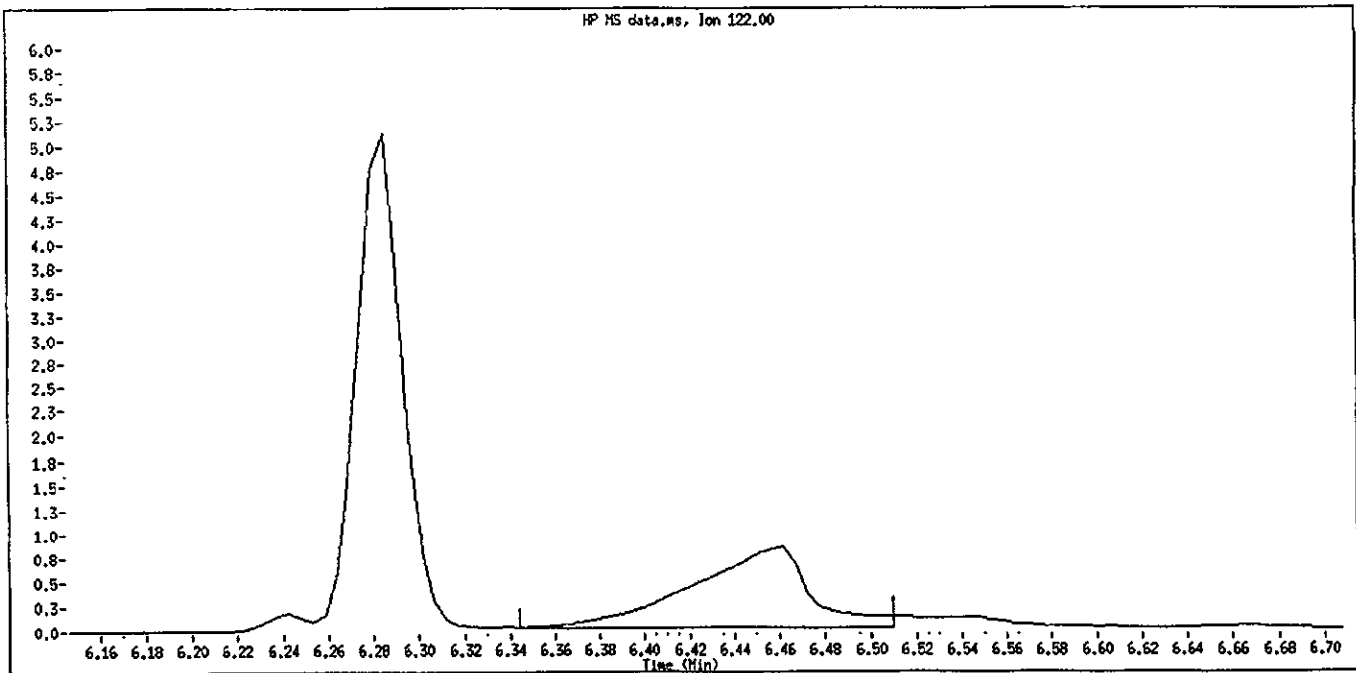
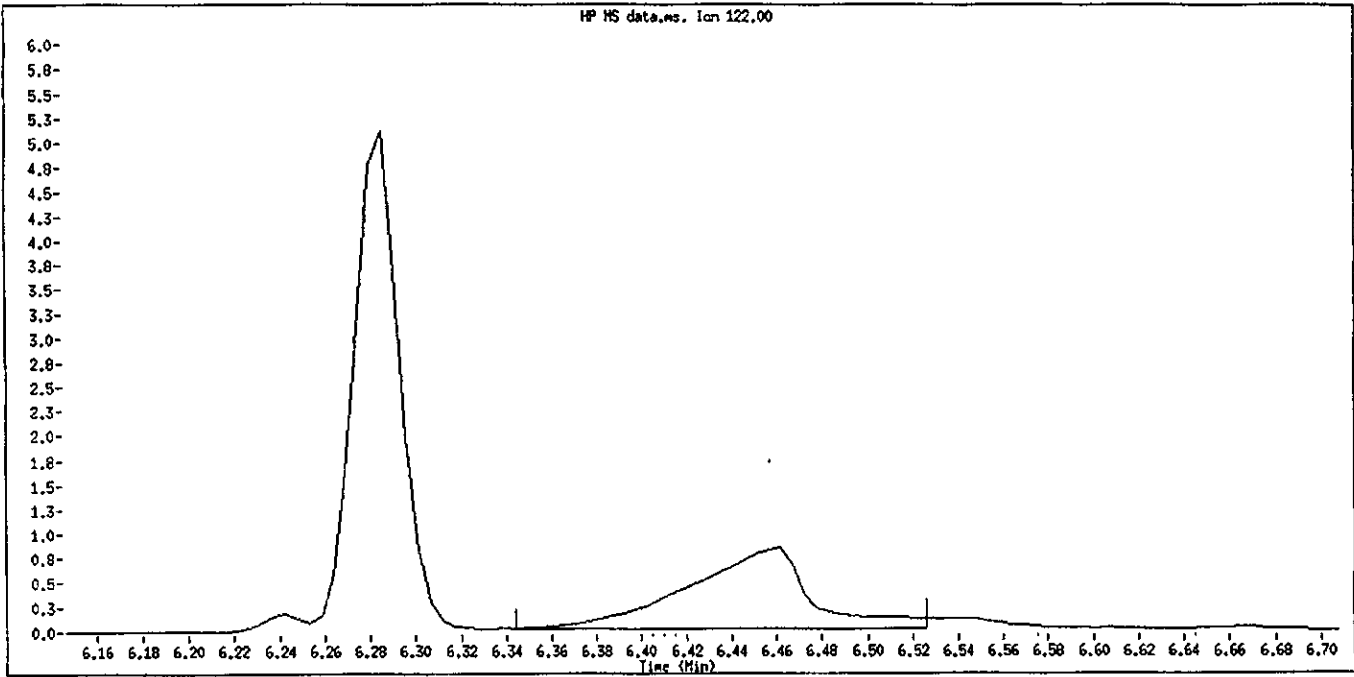


Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File Name S0824C03.D
Inj. Date and Time. 24-AUG-2000 16.38
Instrument ID 71.1
Client ID SST080
Compound Name: Benzoic Acid
CAS # 65-85-0
Report Date 08/25/2000

669 309



Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 310

Data File Name S0824C03.D

Inj. Date and Time: 24-AUG-2000 16:38

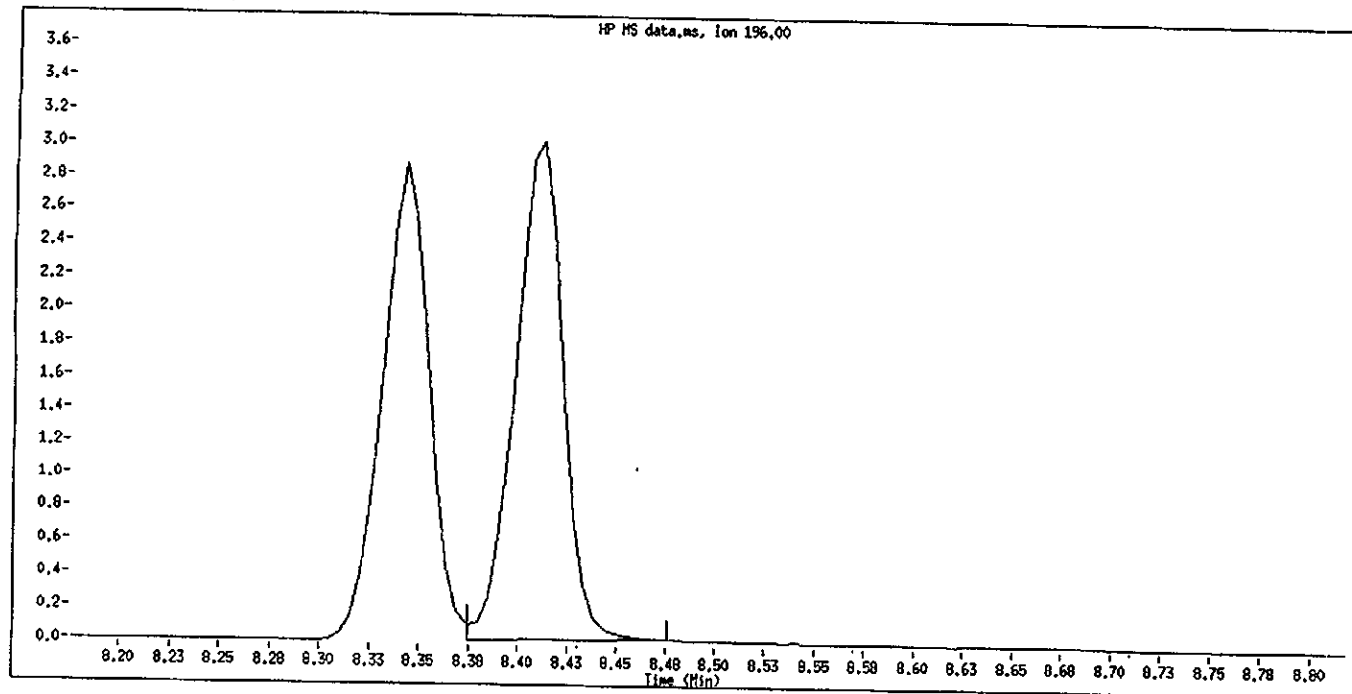
Instrument ID: 71.1

Client ID: SST080

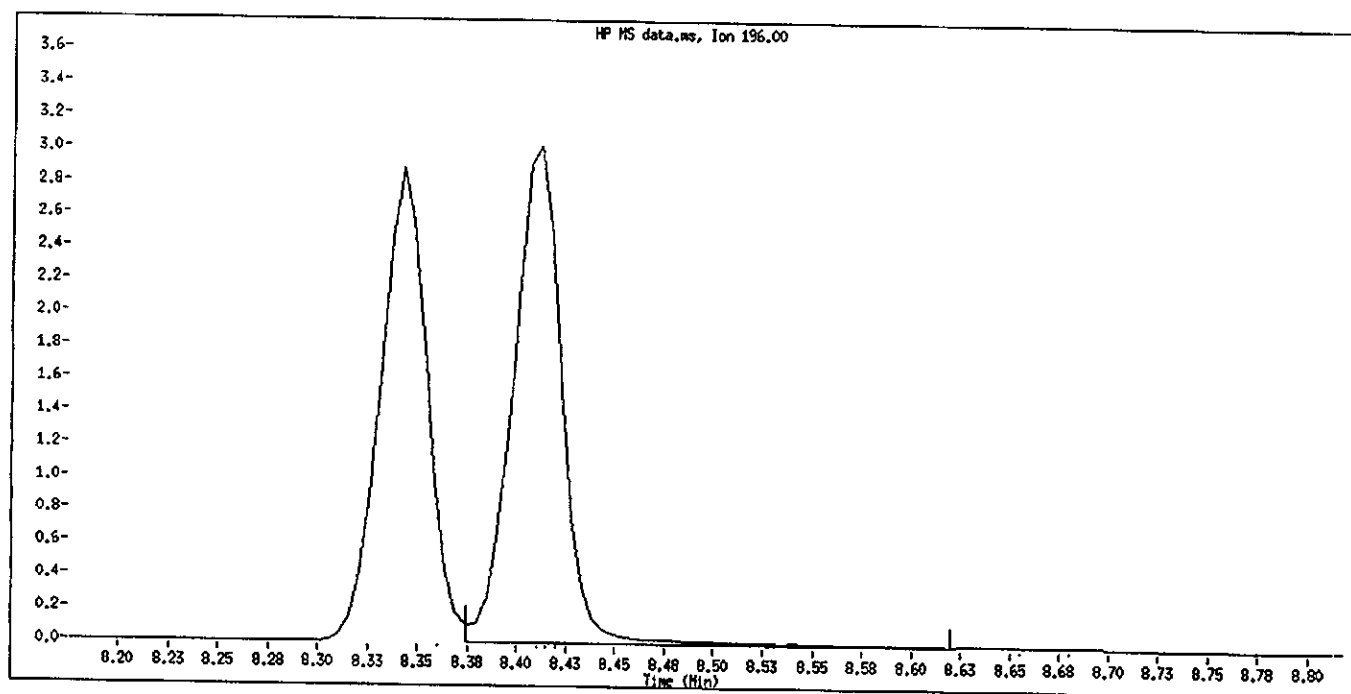
Compound Name 2,4,5-Trichlorophenol

CAS # 95-95-4

Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: Bachas

Manual Integration Reason: Poor Chromatography

Inj. Date and Time: 24-AUG-2000 16:38

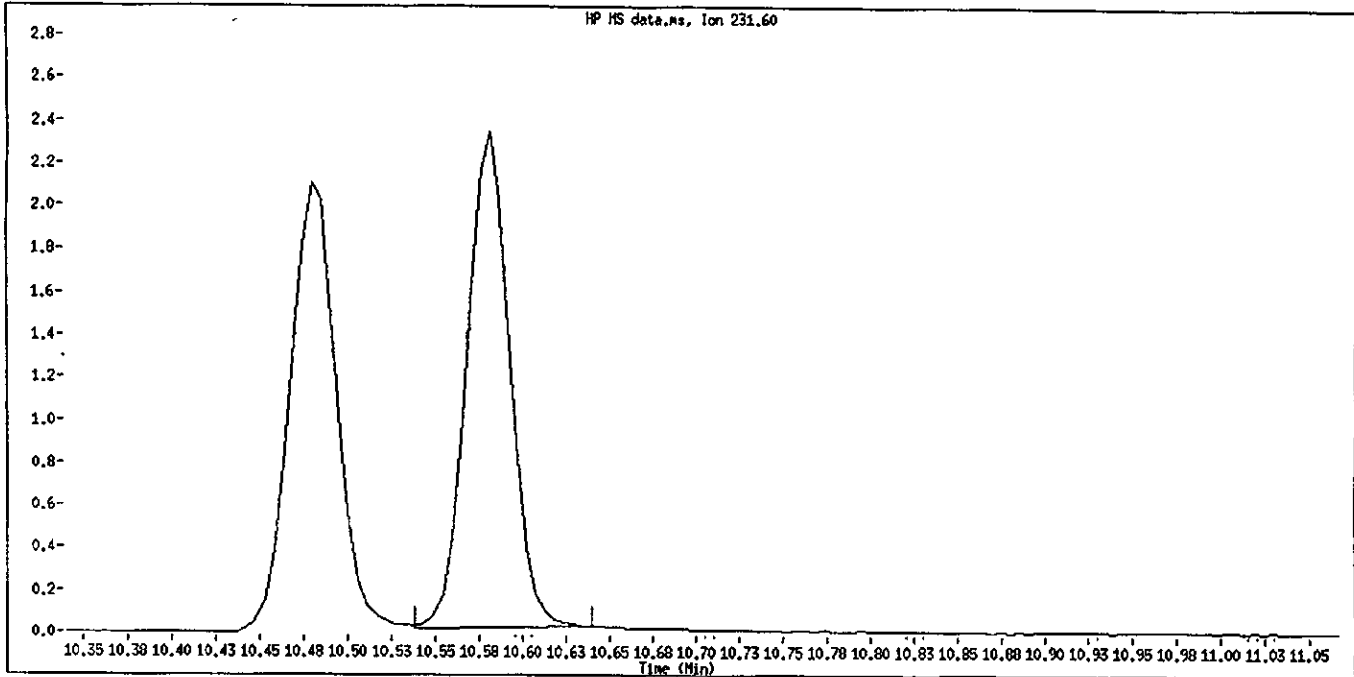
Instrument ID 71.1

Client ID: SST080

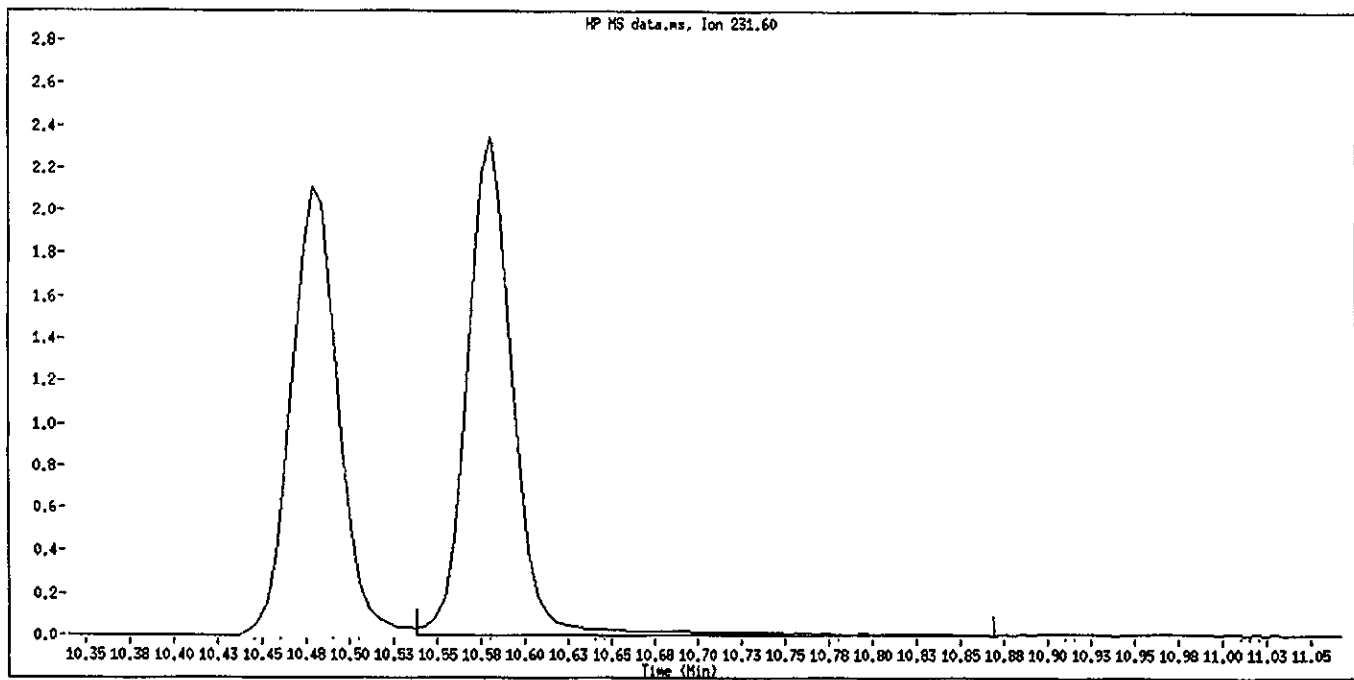
Compound Name: 2,3,4,6-Tetrachlorophenol

CAS #: 58-90-2

Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Unknown

669 312

Data File Name: S0824C03.D

Inj. Date and Time: 24-AUG-2000 16:38

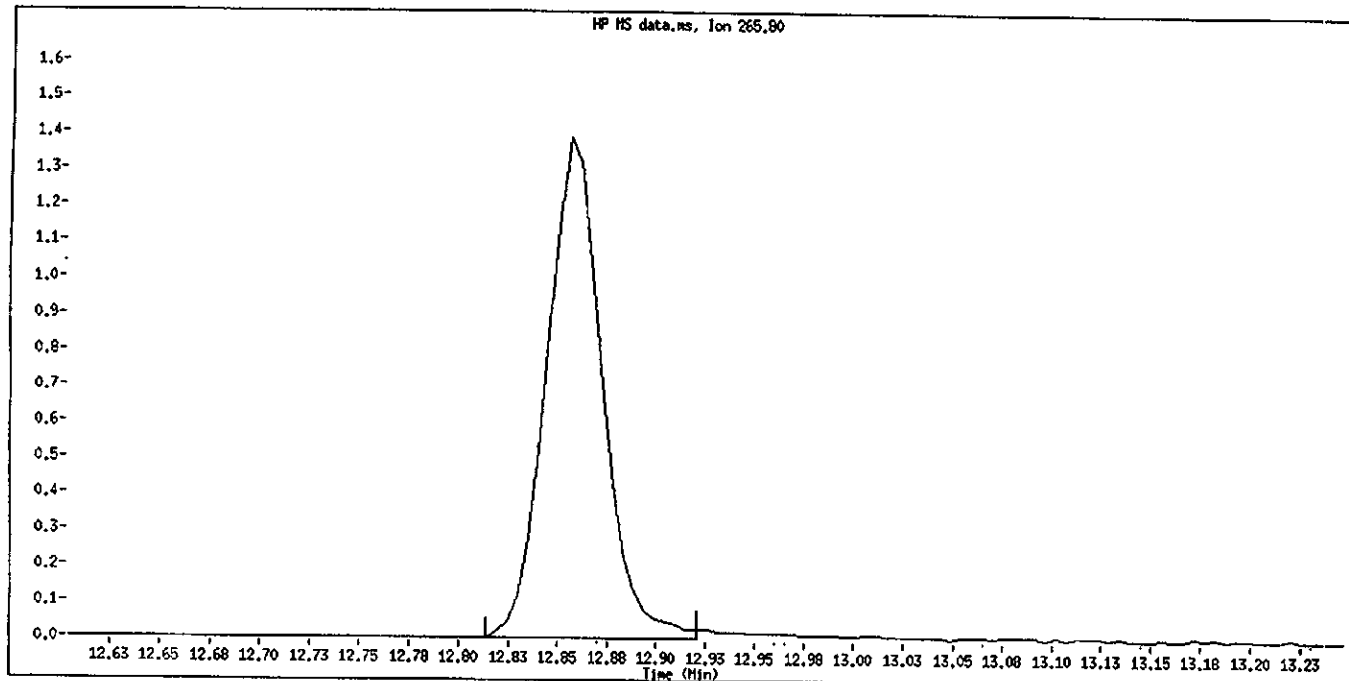
Instrument ID: 71.1

Client ID: SST080

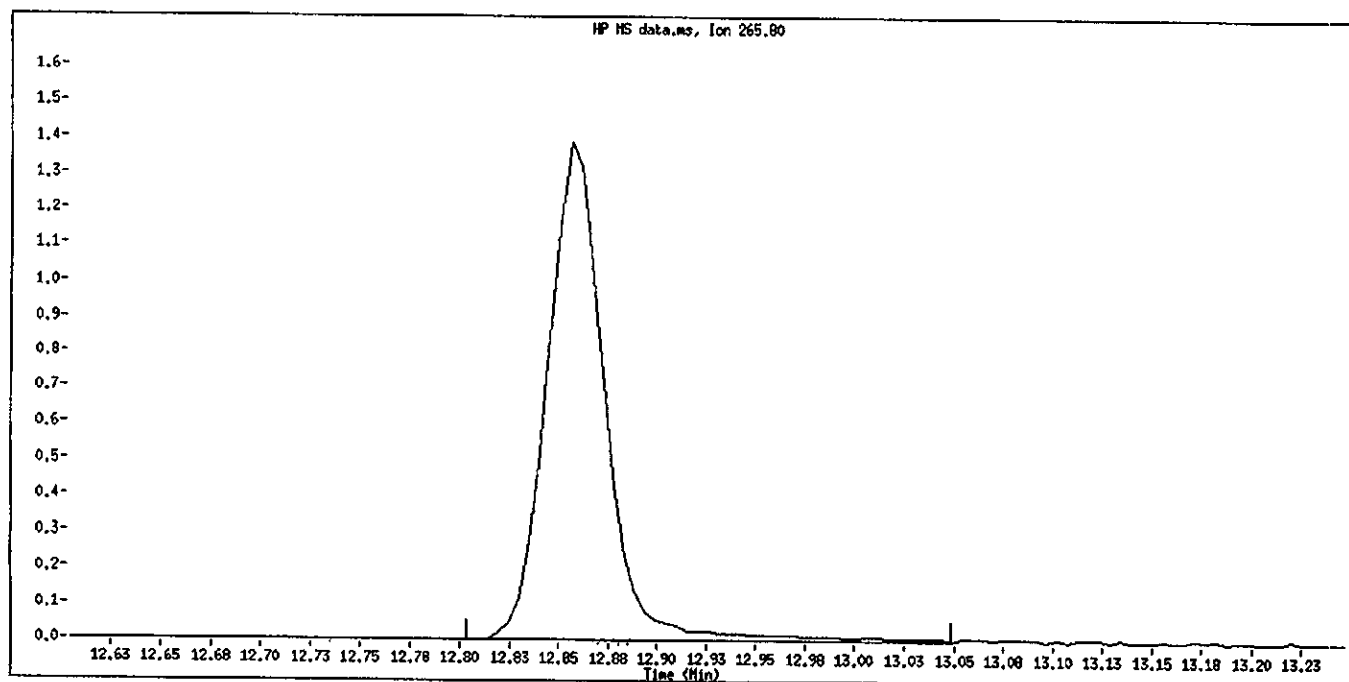
Compound Name: Pentachlorophenol

CAS #: 87-86-5

Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File Name S0824C03.D

Inj. Date and Time: 24-AUG-2000 16:38

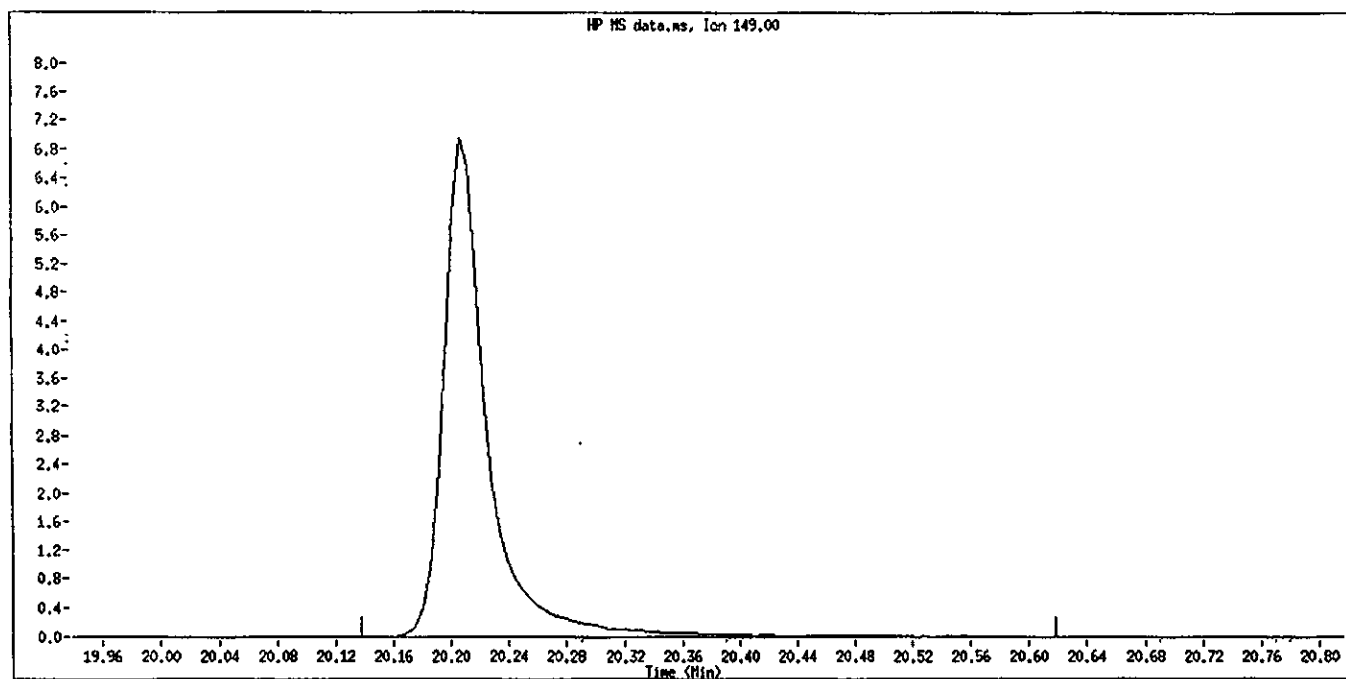
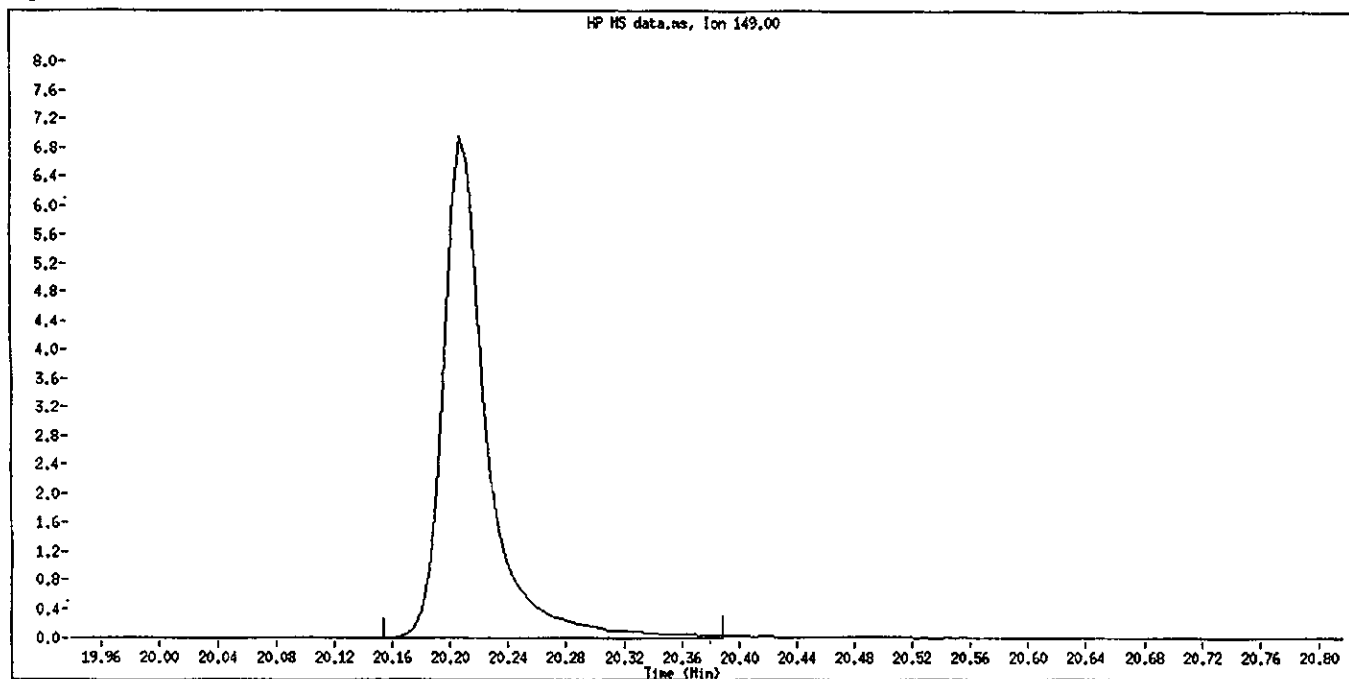
Instrument ID: 71.1

Client ID: SST080

Compound Name: bis(2-ethylhexyl)Phthalate

CAS #: 117-81-7

Report Date: 08/25/2000

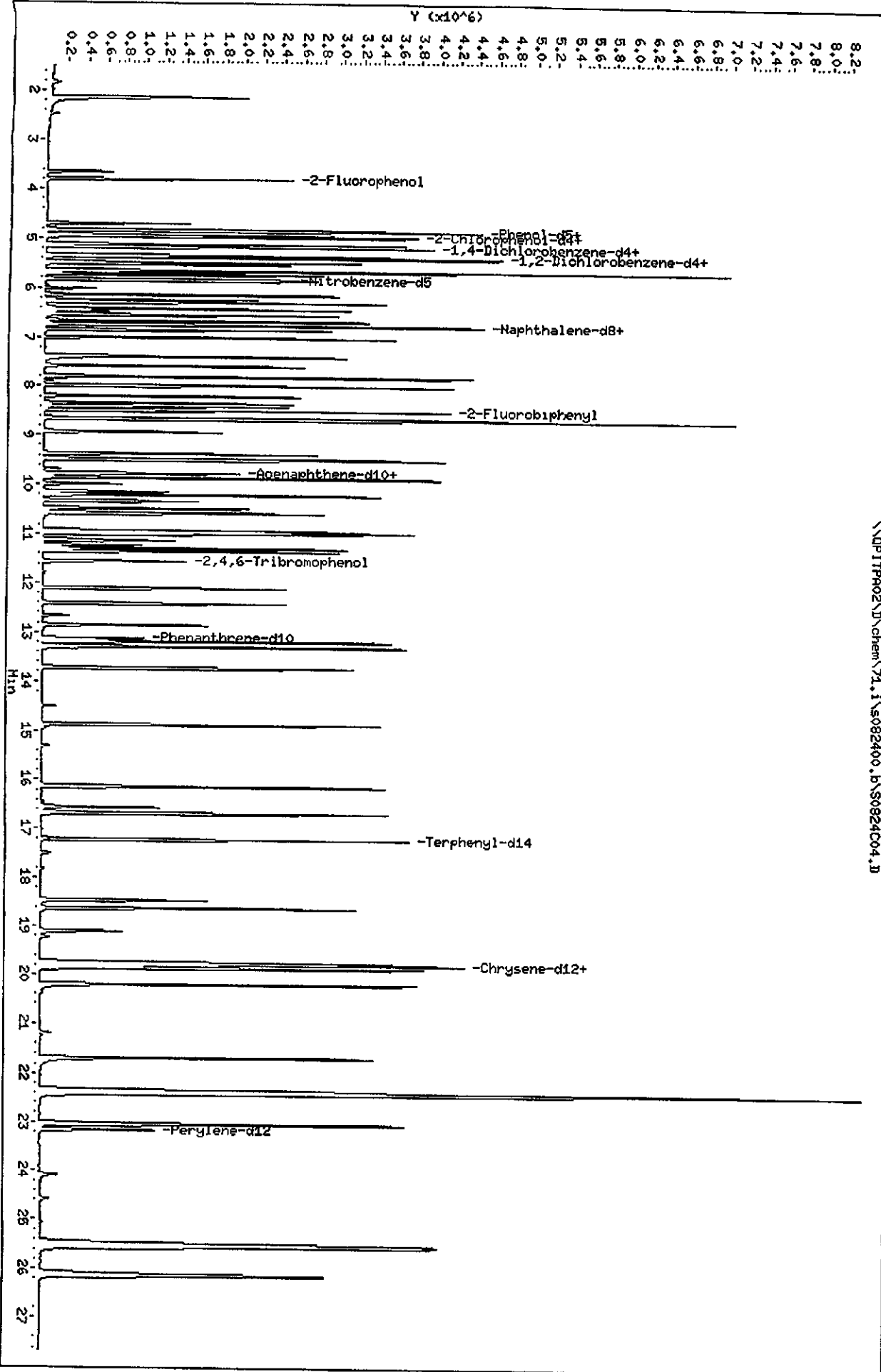


Manually Integrated By: BachaS

Manual Integration Reason: Unknown

Data File: \\QPIITPA02\chem\71.i\5082400.b\5082404.D
Date: 24-AUG-2000 17:12
Client ID: SSTJ120
Sample Info: sstd120(60 ug/ml) 194-188-6 8270/olp
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824C04.D
Lab Smp Id: sstd120 Client Smp ID: SSTD120
Inj Date : 24-AUG-2000 17:12
Operator : 045183 Inst ID: 71.i
Smp Info : sstd120(60 ug/ml) 194-188-6 8270/clp
Misc Info : sstd120,s082400.b,8270clp.m,1-82701.sub,1,4
Comment :
Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
Meth Date : 25-Aug-2000 10:03 bachas Quant Type: ISTD
Cal Date : 24-AUG-2000 17:12 Cal File: S0824C04.D
Als bottle: 98 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

AY/KSL

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
* 1 1,4-Dichlorobenzene-d4	152	5.159	5.159	(1.000)	291958	40.0000	
* 2 Naphthalene-d8	136	6.725	6.725	(1.000)	1044399	40.0000	
* 3 Acenaphthene-d10	164	9.802	9.802	(1.000)	569547	40.0000	
* 4 Phenanthrene-d10	188	13.130	13.130	(1.000)	972496	40.0000	
* 5 Chrysene-d12	240	19.797	19.797	(1.000)	1183024	40.0000	
* 6 Perylene-d12	264	23.168	23.168	(1.000)	1048648	40.0000	
13 N-Nitrosodimethylamine	74	2.136	2.136	(0.414)	727677	120.000	116.16 (M)
10 Pyridine	79	2.125	2.125	(0.412)	1205305	120.000	115.09 (M)
19 Methyl methanesulfonate	80	3.664	3.664	(0.710)	346120	120.000	114.31
22 Aniline	93	4.855	4.855	(0.941)	1461736	120.000	113.08
23 Phenol	94	4.839	4.839	(0.938)	1528394	120.000	115.40
24 bis(2-Chloroethyl)ether	93	4.924	4.924	(0.954)	1152561	120.000	115.06
25 2-Chlorophenol	128	4.967	4.967	(0.963)	1129757	120.000	118.27
27 1,3-Dichlorobenzene	146	5.122	5.122	(0.993)	1226006	120.000	116.53
28 1,4-Dichlorobenzene	146	5.175	5.175	(1.003)	1240022	120.000	115.65
29 1,2-Dichlorobenzene	146	5.389	5.389	(1.045)	1148953	120.000	115.53
30 Benzyl Alcohol	108	5.341	5.341	(1.035)	798285	120.000	119.33
31 2-Methylphenol	108	5.485	5.485	(1.063)	1012854	120.000	116.92
32 2,2'-oxybis(1-Chloropropane)	45	5.523	5.523	(1.070)	1327985	120.000	114.92
33 N-Nitroso-di-n-propylamine	70	5.688	5.688	(1.102)	774193	120.000	115.55
35 4-Methylphenol	108	5.651	5.651	(1.095)	1081114	120.000	116.10
38 Hexachloroethane	117	5.736	5.736	(1.112)	457322	120.000	118.86
39 Nitrobenzene	77	5.854	5.854	(0.871)	1154807	120.000	117.66
44 Isophorone	82	6.137	6.137	(0.913)	1994275	120.000	116.69
45 2-Nitrophenol	139	6.244	6.244	(0.928)	563791	120.000	146.12
46 2,4-Dimethylphenol	107	6.287	6.287	(0.935)	1041868	120.000	119.20

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
47 bis(2-Chloroethoxy)methane	93	6.420	6.420	(0.955)	1293335	120.000	118.20
51 2,4-Dichlorophenol	162	6.543	6.543	(0.973)	897687	120.000	123.25
52 Benzoic Acid	122	6.474	6.474	(0.963)	483327	120.000	180.42 (AM)
53 1,2,4-Trichlorobenzene	180	6.666	6.666	(0.991)	1000210	120.000	122.30
54 Naphthalene	128	6.751	6.751	(1.004)	3143519	120.000	113.94
55 4-Chloroaniline	127	6.853	6.853	(1.019)	1299876	120.000	119.79
59 Hexachlorobutadiene	225	7.008	7.008	(1.042)	630773	120.000	126.44
62 4-Chloro-3-Methylphenol	107	7.590	7.590	(1.129)	921399	120.000	122.73
65 2-Methylnaphthalene	142	7.804	7.804	(1.160)	2098205	120.000	117.90
66 1-Methylnaphthalene	142	7.991	7.991	(1.188)	1975495	120.000	117.67
67 Hexachlorocyclopentadiene	237	8.199	8.199	(0.837)	664731	120.000	146.37
69 2,4,6-Trichlorophenol	196	8.343	8.343	(0.851)	632469	120.000	129.98
70 2,4,5-Trichlorophenol	196	8.413	8.413	(0.858)	703188	120.000	127.38 (M)
73 2-Chloronaphthalene	162	8.664	8.664	(0.884)	1975085	120.000	120.31
77 2-Nitroaniline	65	8.931	8.931	(0.911)	580256	120.000	137.66
80 Dimethylphthalate	163	9.380	9.380	(0.957)	2207076	120.000	122.36
82 2,6-Dinitrotoluene	165	9.508	9.508	(0.970)	483663	120.000	137.69
83 Acenaphthylene	152	9.481	9.481	(0.967)	3068240	120.000	119.62
85 3-Nitroaniline	138	9.775	9.775	(0.997)	582603	120.000	133.26
86 Acenaphthene	153	9.871	9.871	(1.007)	1965772	120.000	119.82
87 2,4-Dinitrophenol	184	9.989	9.989	(1.019)	215086	120.000	193.84 (A)
89 4-Nitrophenol	109	10.144	10.144	(1.035)	301020	120.000	136.14
90 Dibenzofuran	168	10.208	10.208	(1.041)	2733034	120.000	119.80
91 2,4-Dinitrotoluene	165	10.331	10.331	(1.054)	630253	120.000	138.83
95 2,3,5,6-Tetrachlorophenol	232	10.480	10.480	(1.069)	545532	120.000	139.78
92 2,3,4,6-Tetrachlorophenol	232	10.582	10.582	(1.080)	587213	120.000	133.14 (M)
96 2-Naphthylamine	143	10.560	10.560	(1.077)	1127256	120.000	105.68
97 Diethylphthalate	149	10.929	10.929	(1.115)	2182306	120.000	123.60
98 Fluorene	166	10.966	10.966	(1.119)	2268425	120.000	121.72
99 4-Chlorophenyl-phenylether	204	10.998	10.998	(1.122)	1132076	120.000	125.52
100 4-Nitroaniline	138	11.137	11.137	(1.136)	582942	120.000	132.19
102 4,6-Dinitro-2-methylphenol	198	11.233	11.233	(0.856)	313491	120.000	183.56 (A)
103 N-Nitrosodiphenylamine (1)	169	11.298	11.298	(0.860)	1615414	120.000	123.14
104 1,2-Diphenylhydrazine	77	11.356	11.356	(0.865)	2232916	120.000	117.95
112 4-Bromophenyl-phenylether	248	12.115	12.115	(0.923)	633909	120.000	130.03
113 Hexachlorobenzene	284	12.425	12.425	(0.946)	703199	120.000	131.08
117 Pentachlorophenol	266	12.857	12.857	(0.979)	417454	120.000	156.99 (M)
122 Phenanthrene	178	13.189	13.189	(1.004)	3050205	120.000	122.22
123 Anthracene	178	13.301	13.301	(1.013)	3169775	120.000	124.09
126 Carbazole	167	13.734	13.734	(1.046)	3016323	120.000	126.50
130 Di-n-Butylphthalate	149	14.877	14.877	(1.133)	3503842	120.000	134.48
135 Fluoranthene	202	16.143	16.143	(1.229)	3382961	120.000	130.97
136 Benzidine	184	16.560	16.560	(0.836)	1131439	120.000	158.13
137 Pyrene	202	16.693	16.693	(0.843)	3515498	120.000	116.64
144 Butylbenzylphthalate	149	18.632	18.632	(0.941)	1535755	120.000	148.50
149 3,3'-Dichlorobenzidine	252	19.802	19.802	(1.000)	1588984	120.000	137.96
150 Benzo(a)Anthracene	228	19.760	19.760	(0.998)	3613892	120.000	125.71

Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824C04.D
 Report Date: 25-Aug-2000 10:04

Page 3

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
*****	----	==	-----	-----	-----	-----	-----
151 Chrysene	228	19.866	19.866	(1.004)	3419215	120.000	122.27
153 bis(2-ethylhexyl)Phthalate	149	20.208	20.208	(1.021)	2174102	120.000	150.31 (M)
155 Di-n-octylphthalate	149	21.688	21.688	(0.936)	3635623	120.000	157.75
157 Benzo(b)fluoranthene	252	22.366	22.366	(0.965)	4173814	120.000	137.85
158 Benzo(k)fluoranthene	252	22.425	22.425	(0.968)	5205450	120.000	126.96
159 7,12-dimethylbenz[a]anthracen	256	22.425	22.425	(0.968)	2417395	120.000	137.83
167 Benzo(a)pyrene	252	23.056	23.056	(0.995)	3906933	120.000	132.91
169 Indeno(1,2,3-cd)pyrene	276	25.518	25.518	(1.101)	5611964	120.000	141.16
170 Dibenz(a,h)anthracene	278	25.566	25.566	(1.104)	5105708	120.000	143.36
171 Benzo(g,h,i)perylene	276	26.143	26.143	(1.128)	4576079	120.000	139.07
\$ 172 Nitrobenzene-d5	82	5.833	5.833	(0.867)	1124051	120.000	120.58
\$ 173 2-Fluorobiphenyl	172	8.493	8.493	(0.866)	2250815	120.000	119.45
\$ 174 Terphenyl-d14	244	17.217	17.217	(0.870)	2794236	120.000	120.69
\$ 175 Phenol-d5	99	4.828	4.828	(0.936)	1375540	120.000	116.01
\$ 176 2-Fluorophenol	112	3.808	3.808	(0.738)	1111430	120.000	118.62
\$ 177 2,4,6-Tribromophenol	330	11.554	11.554	(0.880)	317011	120.000	145.16
\$ 178 2-Chlorophenol-d4	132	4.951	4.951	(0.960)	1022512	120.000	118.40
\$ 179 1,2-Dichlorobenzene-d4	152	5.373	5.373	(1.041)	778776	120.000	117.55

QC Flag Legend

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

669 318

Data File Name S0824C04.D

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

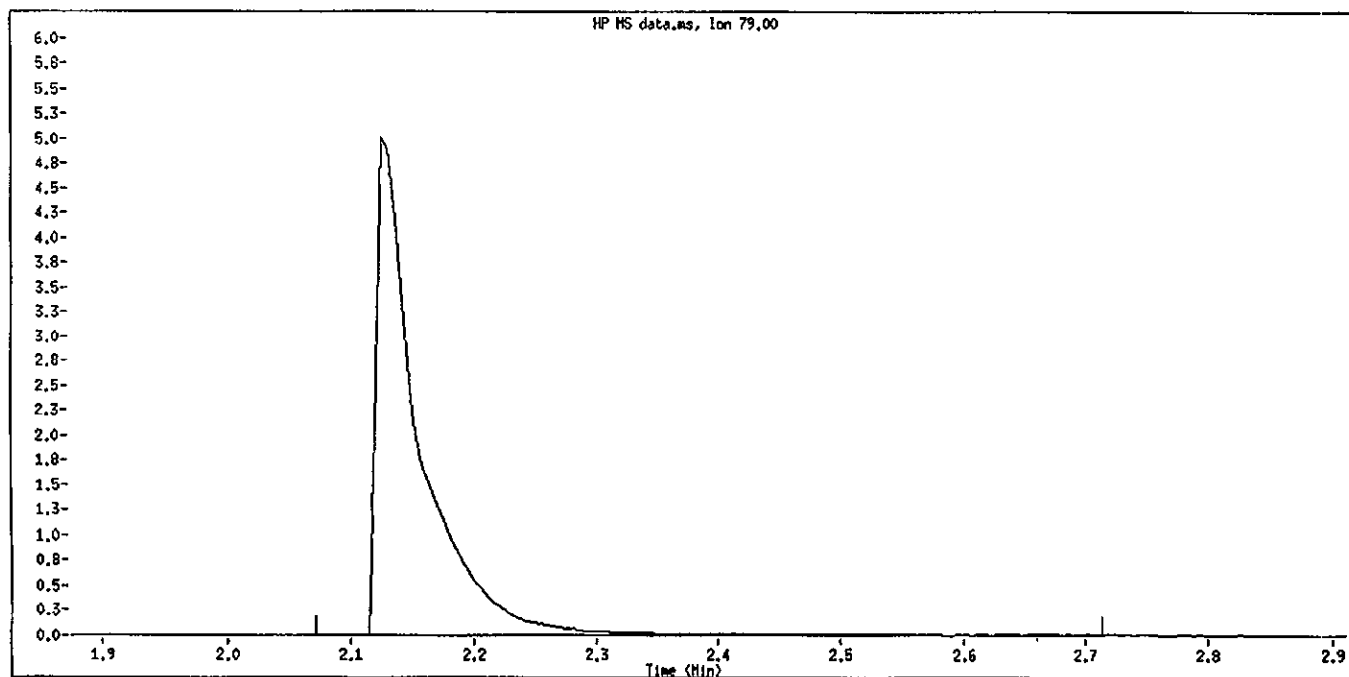
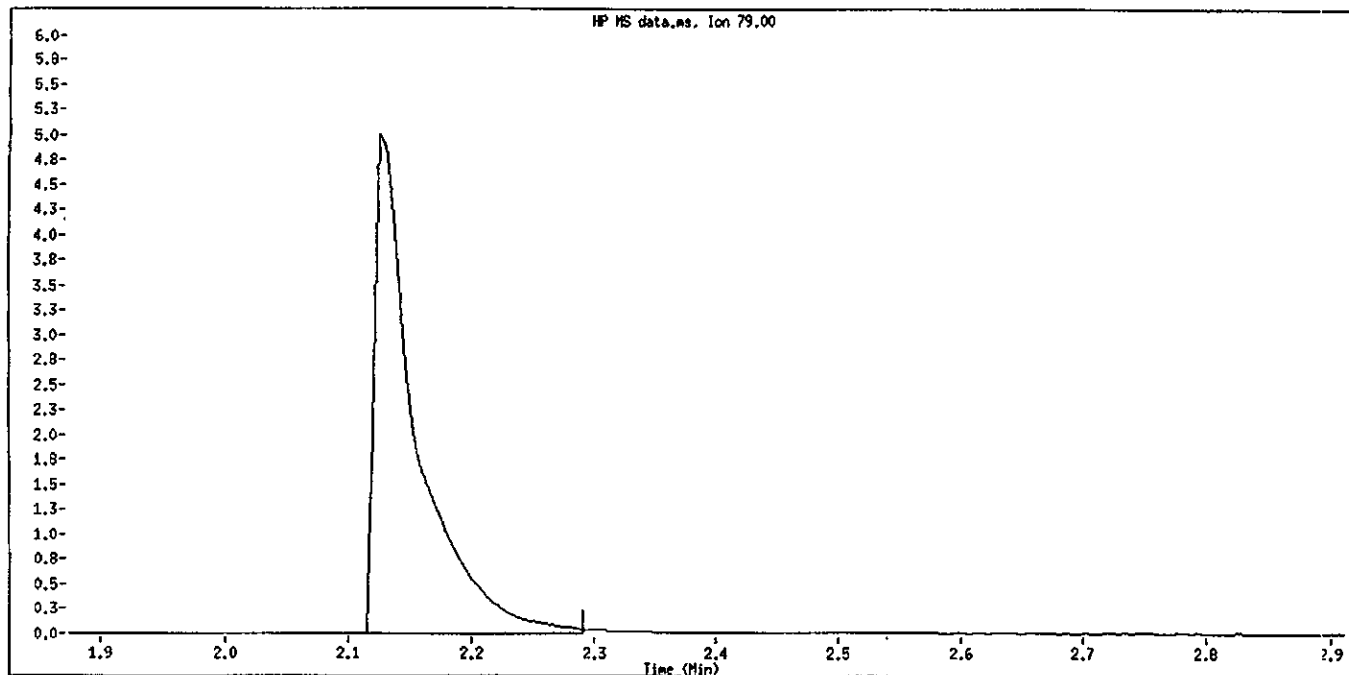
Instrument ID. 71 i

Client ID SSTD120

Compound Name Pyridine

CAS #: 110-86-1

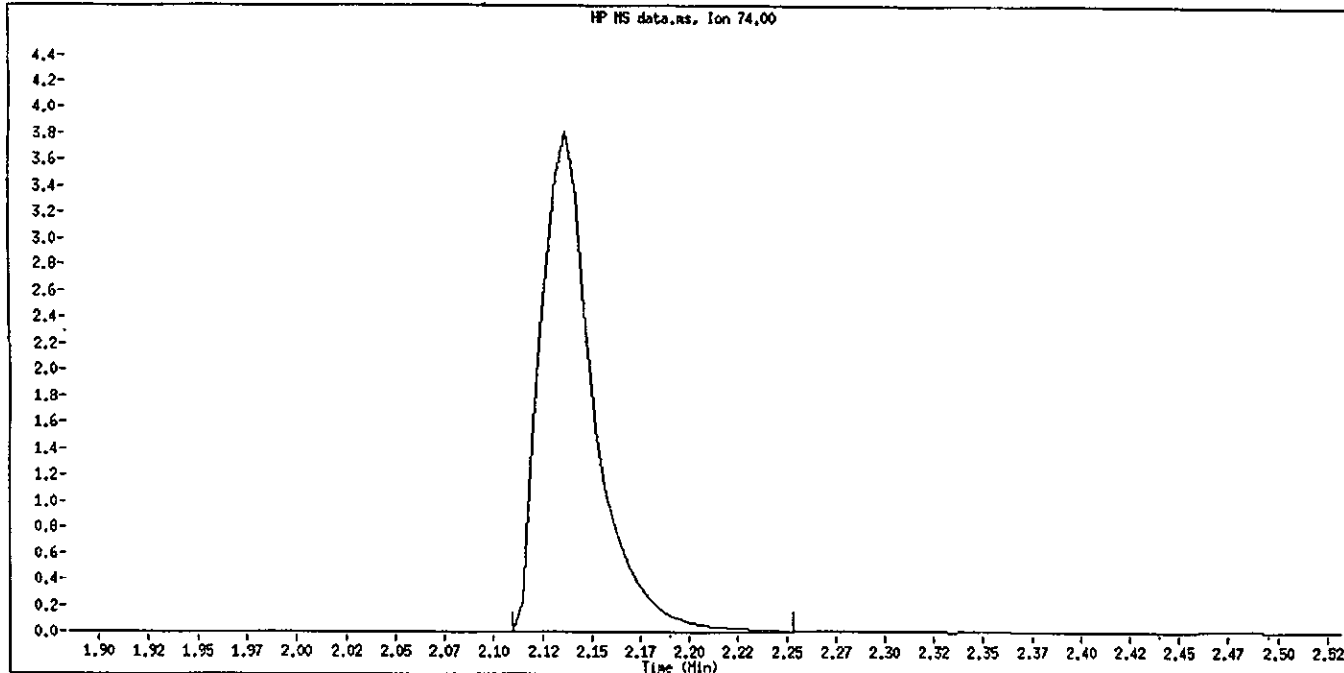
Report Date 08/25/2000



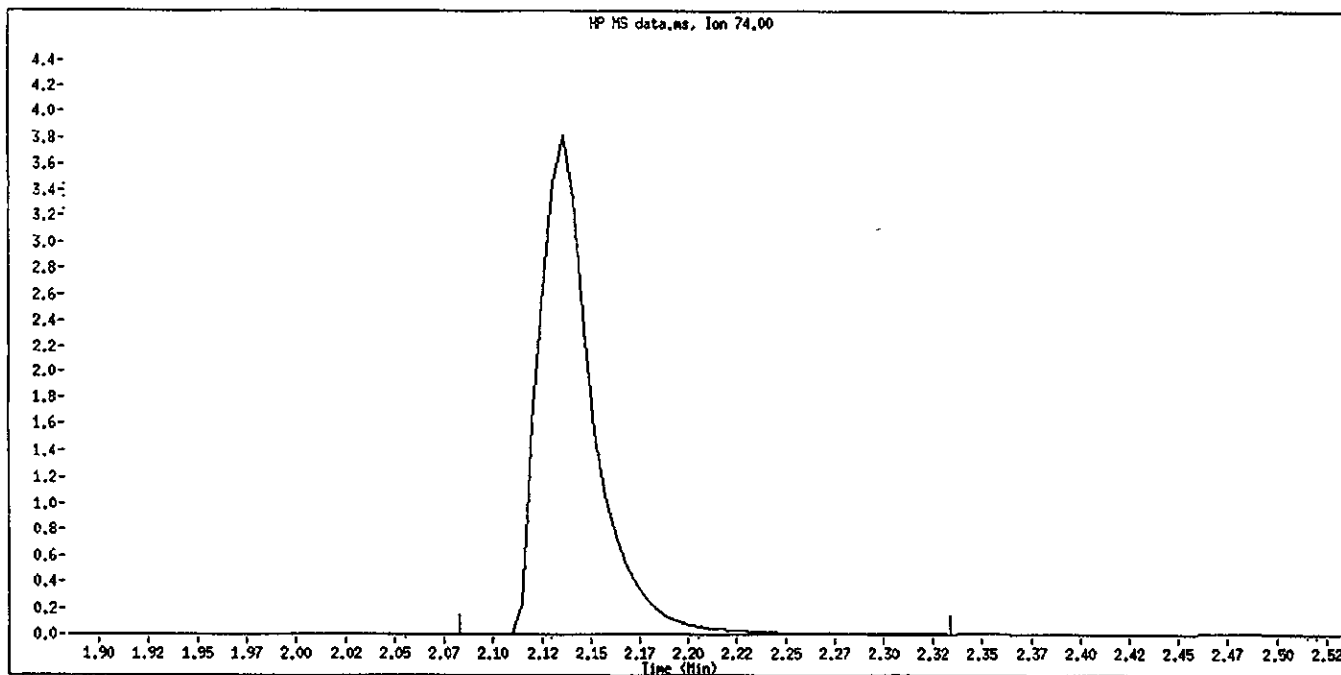
Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File Name S0824C04.D
Inj Date and Time: 24-AUG-2000 17.12
Instrument ID: 71.1
Client ID SSTDI20
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

669 320

Data File Name S0824C04.D

Inj. Date and Time 24-AUG-2000 17.12

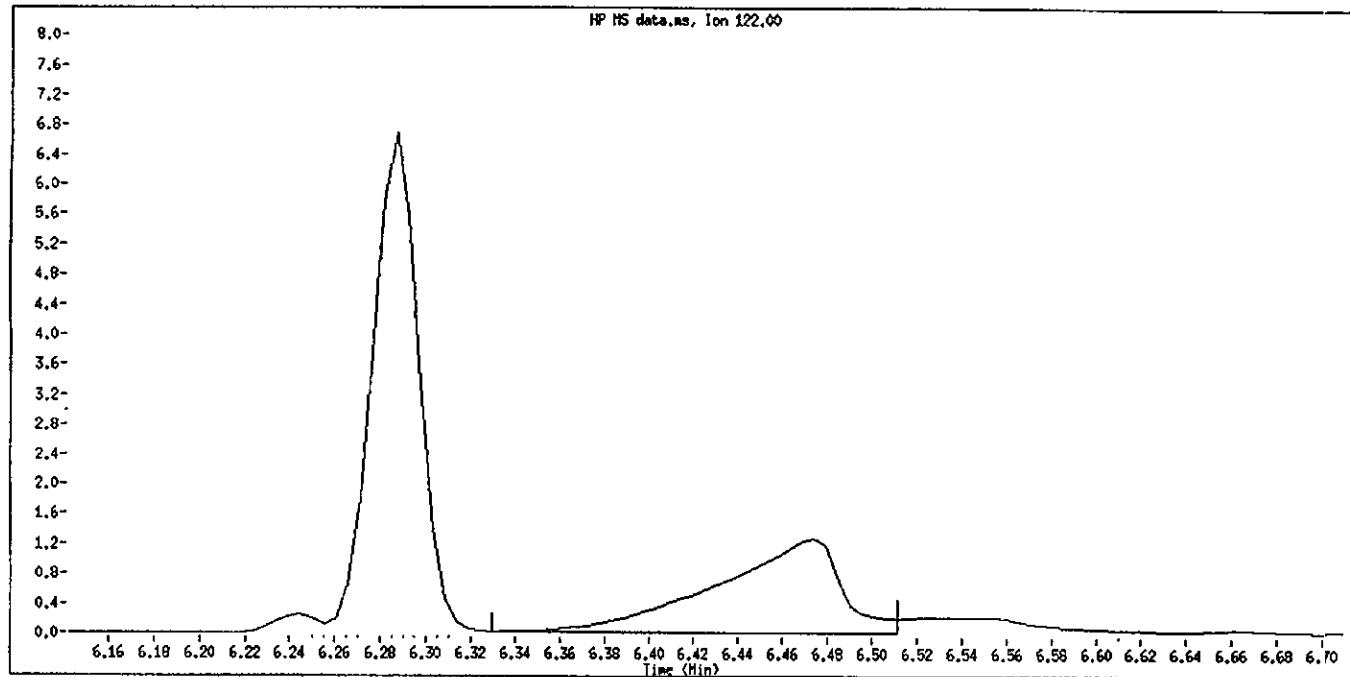
Instrument ID: 71.1

Client ID: SSTD120

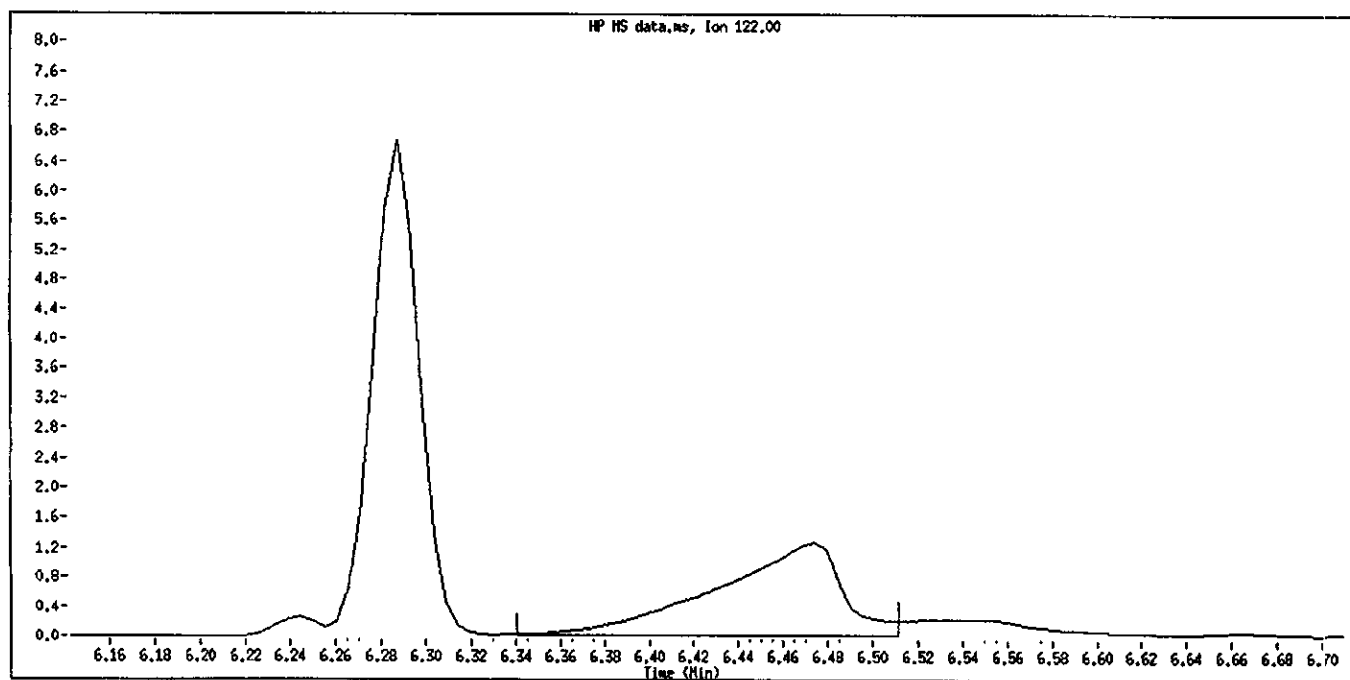
Compound Name Benzoic Acid

CAS #: 65-85-0

Report Date: 08/25/2000



Original Integration

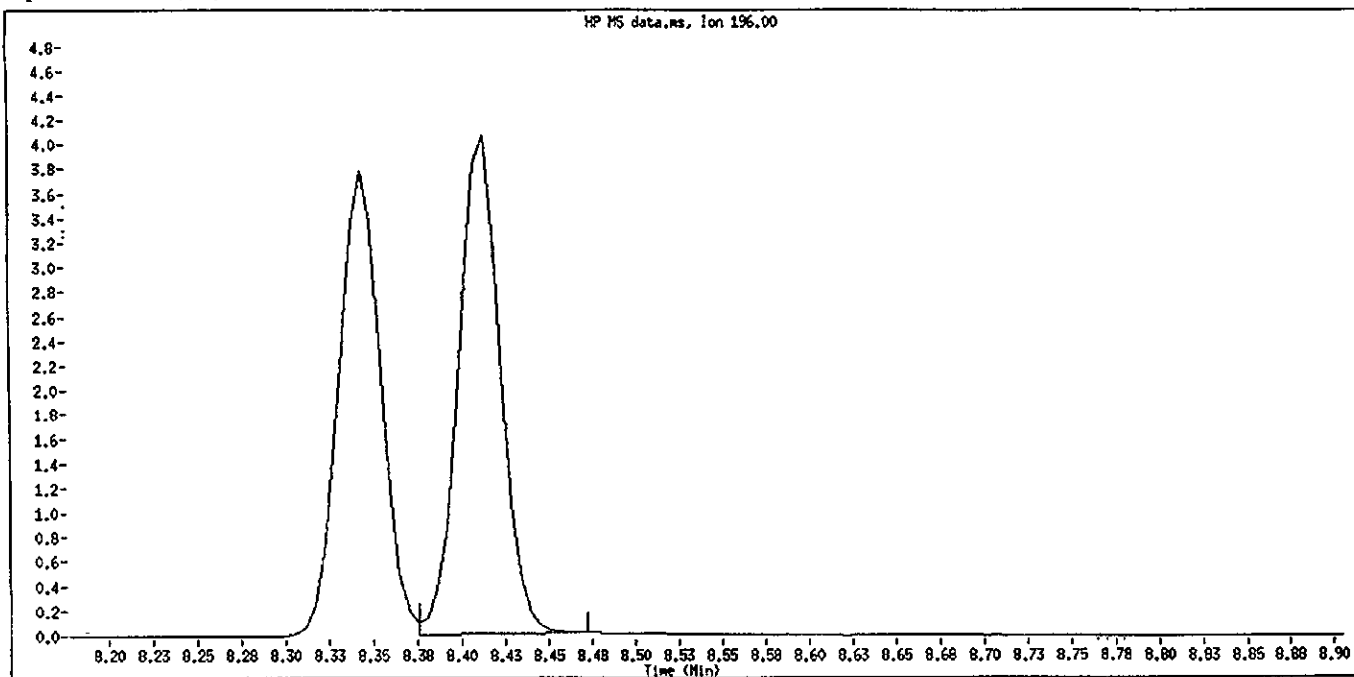


Manual Integration

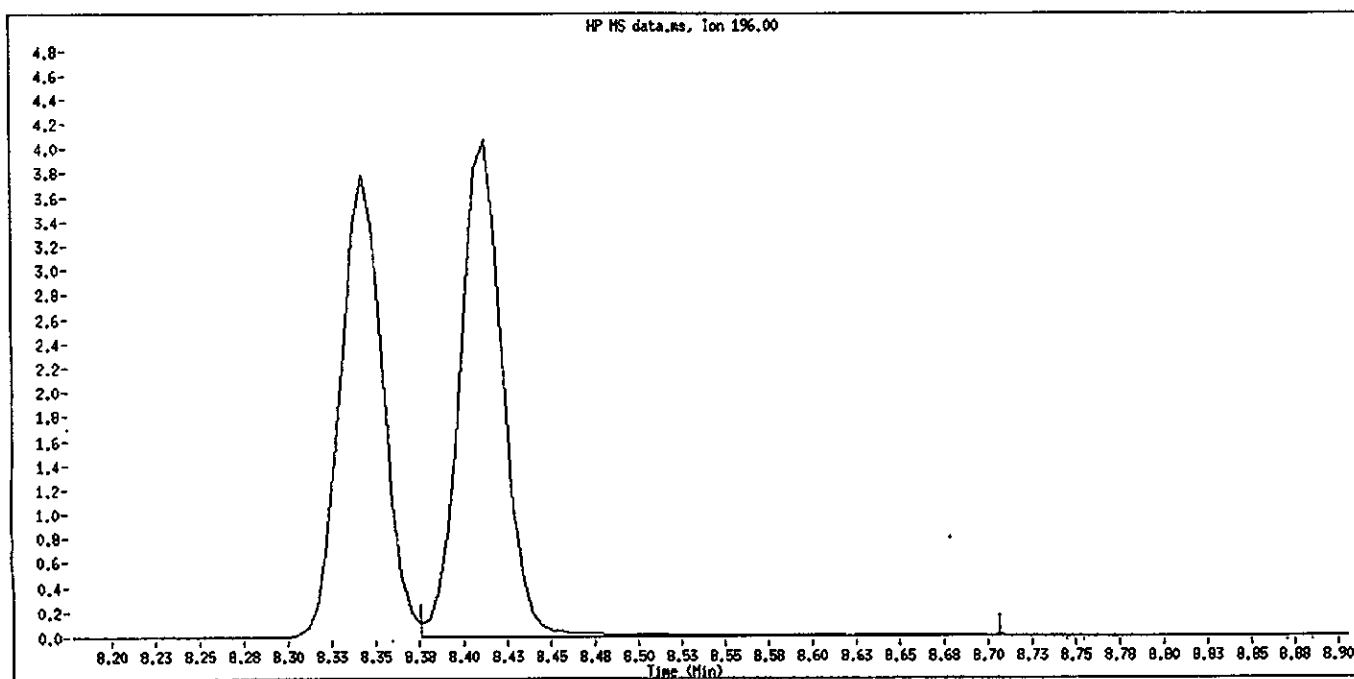
Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File Name S0824C04.D
Inj Date and Time. 24-AUG-2000 17:12
Instrument ID: 71.1
Client ID: SST120
Compound Name: 2,4,5-Trichlorophenol
CAS # 95-95-4
Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 322

Data File Name S0824C04.D

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

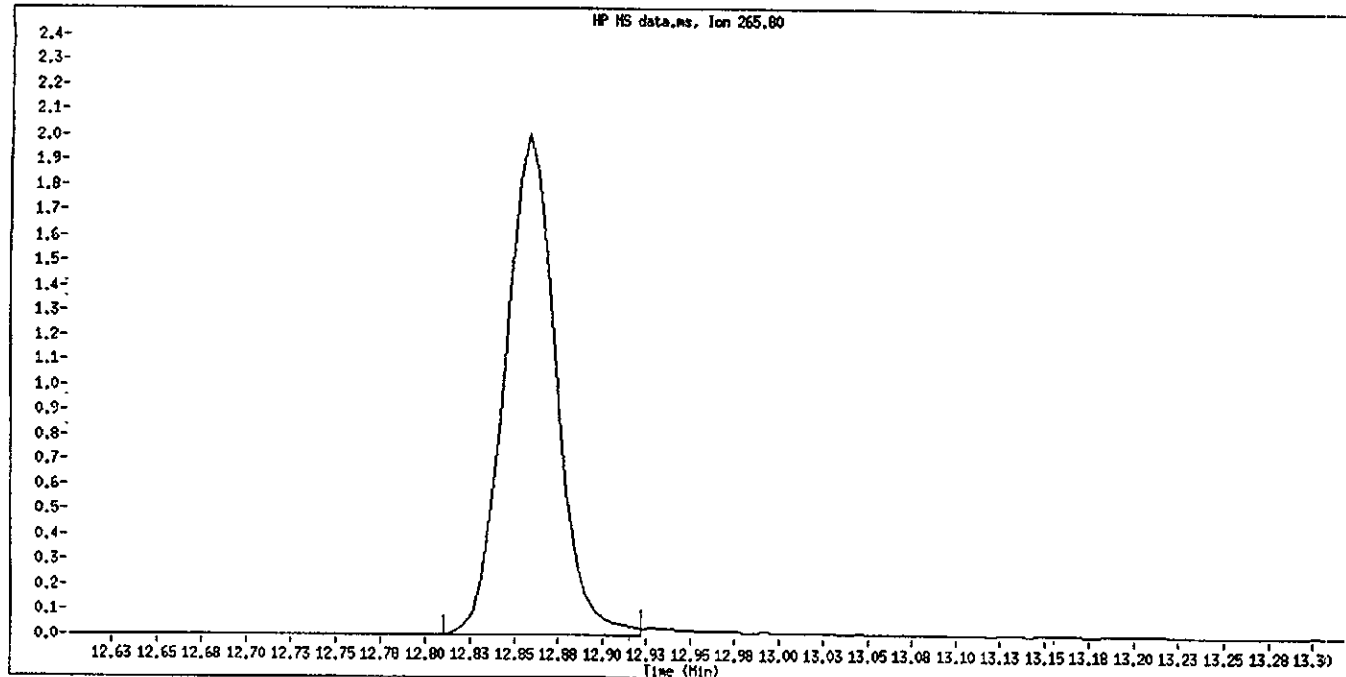
Instrument ID: 71.1

Client ID: SSTD120

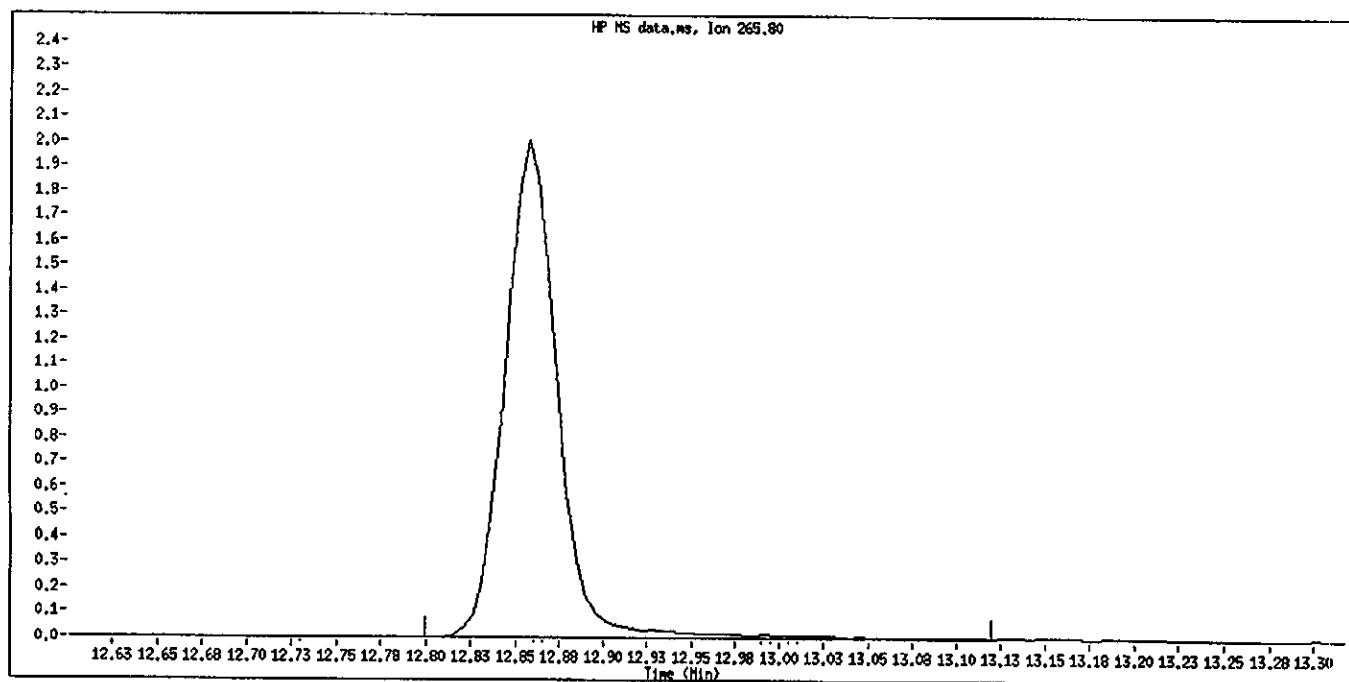
Compound Name: Pentachlorophenol

CAS #: 87-86-5

Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Unknown

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

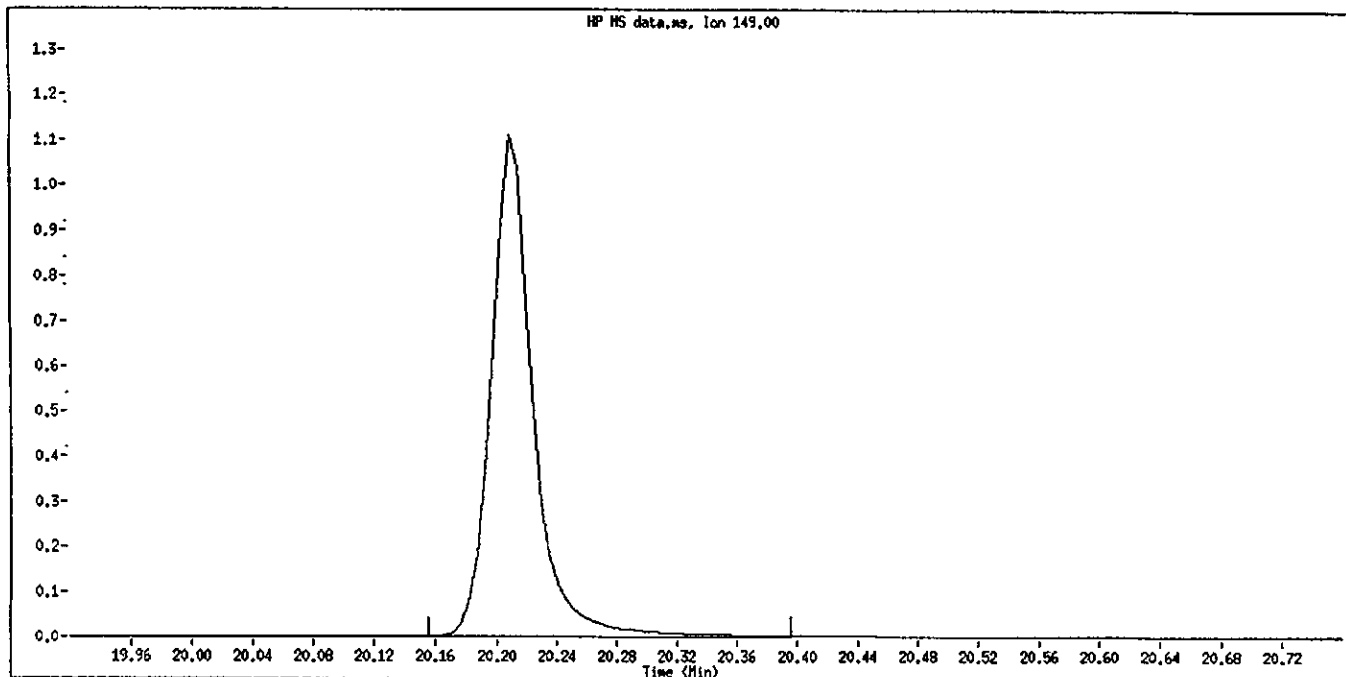
Instrument ID 71 1

Client ID: SST0120

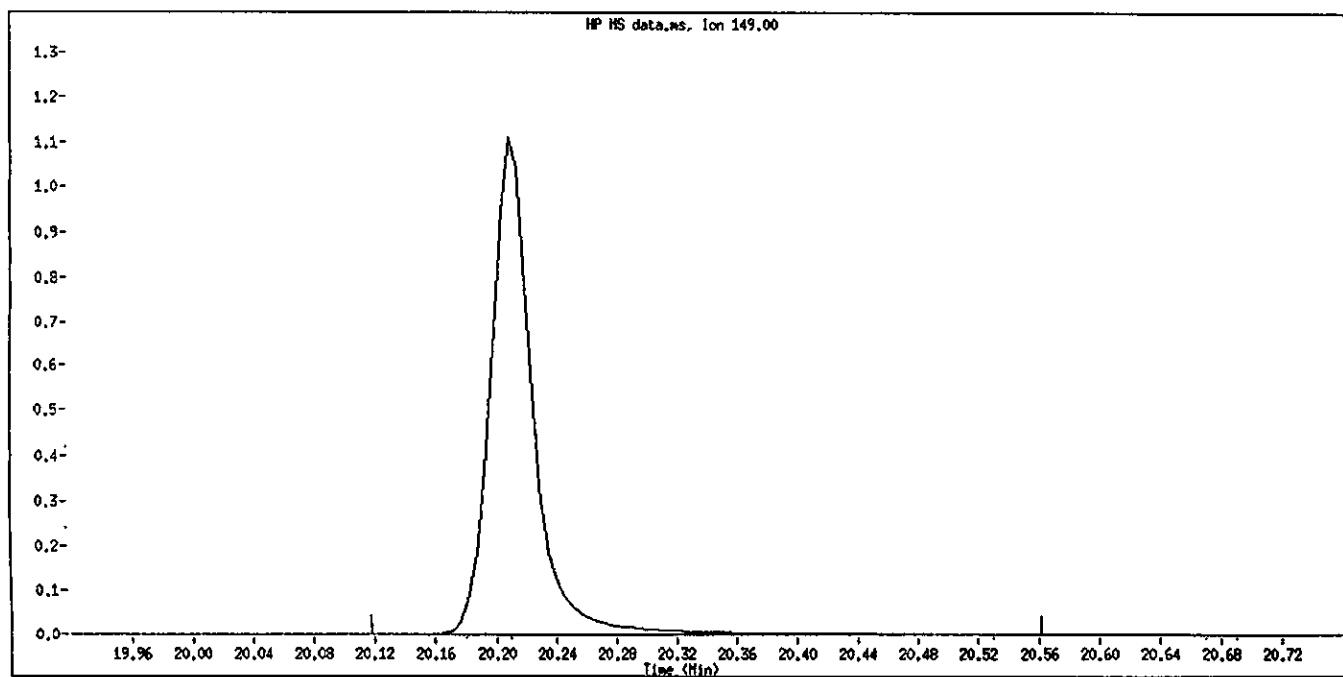
Compound Name bis(2-ethylhexyl)Phthalate

CAS # 117-81-7

Report Date: 08/25/2000



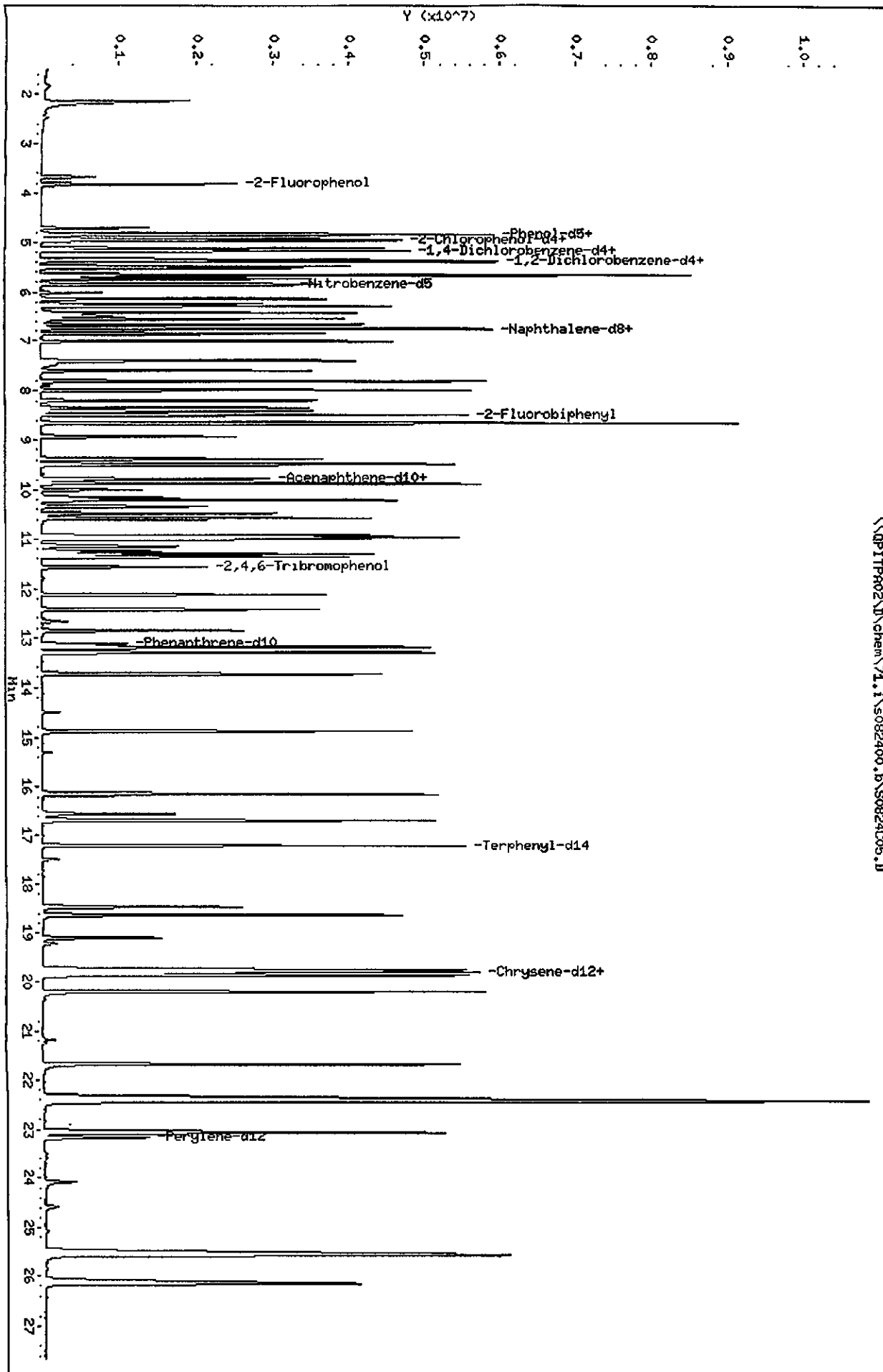
Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Unknown



Data File: \\GPITPA02\J\chem\71.1\5082400.b\50824005.D
 Date : 24-AUG-2000 17:46
 Client ID: SSTDI60
 Sample Info: sstd60(80 ug/ml) 194-188-7 8270/cip
 Column phase: Hp5-MS

Instrument: 71.1
 Operator: 046183
 Column diameter: 0.25

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824C05.D
Lab Smp Id: sstd50 Client Smp ID: SSTD160
Inj Date : 24-AUG-2000 17:46
Operator : 045183 Inst ID: 71.i
Smp Info : sstd160(80 ug/ml) 194-188-7 8270/clp
Misc Info : sstd50,s082400.b,8270clp.m,1-82701.sub,1,5
Comment :
Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
Meth Date : 25-Aug-2000 10:05 bachas Quant Type: ISTD
Cal Date : 24-AUG-2000 17:46 Cal File: S0824C05.D
Als bottle: 99 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

R. H. H.

QUANT SIG						AMOUNTS	
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	****	**	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	5.160	5.160	(1.000)	296008	40.0000	
* 2 Naphthalene-d8	136	6.720	6.720	(1.000)	1094270	40.0000	
* 3 Acenaphthene-d10	164	9.797	9.797	(1.000)	621902	40.0000	
* 4 Phenanthrene-d10	188	13.131	13.131	(1.000)	1093221	40.0000	
* 5 Chrysene-d12	240	19.798	19.798	(1.000)	1396480	40.0000	
* 6 Perylene-d12	264	23.163	23.163	(1.000)	1169320	40.0000	
13 N-Nitrosodimethylamine	74	2.148	2.148	(0.416)	974451	160.000	154.70 (M)
10 Pyridine	79	2.137	2.137	(0.414)	1589121	160.000	151.62 (M)
19 Methyl methanesulfonate	80	3.670	3.670	(0.711)	463517	160.000	152.70
22 Aniline	93	4.856	4.856	(0.941)	1950808	160.000	150.96
23 Phenol	94	4.845	4.845	(0.939)	2061209	160.000	154.76
24 bis(2-Chloroethyl)ether	93	4.931	4.931	(0.955)	1555472	160.000	154.48
25 2-Chlorophenol	128	4.973	4.973	(0.964)	1522100	160.000	157.72
27 1,3-Dichlorobenzene	146	5.123	5.123	(0.993)	1611934	160.000	152.81
28 1,4-Dichlorobenzene	146	5.176	5.176	(1.003)	1638556	160.000	152.50
29 1,2-Dichlorobenzene	146	5.390	5.390	(1.045)	1515358	160.000	152.13
30 Benzyl Alcohol	108	5.342	5.342	(1.035)	1092389	160.000	160.84 (AM)
31 2-Methylphenol	108	5.486	5.486	(1.063)	1397620	160.000	159.30
32 2,2'-oxybis(1-Chloropropane)	45	5.524	5.524	(1.070)	1766370	160.000	152.52
33 N-Nitroso-di-n-propylamine	70	5.695	5.695	(1.104)	1063461	160.000	157.23
35 4-Methylphenol	108	5.652	5.652	(1.095)	1455031	160.000	155.25
38 Hexachloroethane	117	5.737	5.737	(1.112)	603563	160.000	155.75
39 Nitrobenzene	77	5.855	5.855	(0.871)	1556900	160.000	153.04
44 Isophorone	82	6.138	6.138	(0.913)	2732142	160.000	154.01
45 2-Nitrophenol	139	6.245	6.245	(0.929)	803691	160.000	189.60 (A)
46 2,4-Dimethylphenol	107	6.288	6.288	(0.936)	1447186	160.000	158.42

669 326

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

Page 2

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
47 bis (2-Chloroethoxy)methane	93	6.421	6.421	(0.955)	1774246	160 000	155.78
51 2,4-Dichlorophenol	162	6.544	6.544	(0.974)	1253121	160.000	163.35 (A)
52 Benzoic Acid	122	6.496	6.496	(0.967)	800337	160 000	246.57 (AM)
53 1,2,4-Trichlorobenzene	180	6.667	6.667	(0.992)	1373773	160 000	160.26 (A)
54 Naphthalene	128	6.752	6.752	(1.005)	4189059	160.000	147.70
55 4-Chloroaniline	127	6.854	6.854	(1.020)	1802192	160.000	158.80
59 Hexachlorobutadiene	225	7.004	7.004	(1.042)	864516	160.000	164.29 (A)
62 4-Chloro-3-Methylphenol	107	7.591	7.591	(1.130)	1309049	160 000	165.09 (A)
65 2-Methylnaphthalene	142	7.805	7.805	(1.161)	2897420	160 000	156.29
66 1-Methylnaphthalene	142	7.992	7.992	(1.189)	2701777	160.000	154.84
67 Hexachlorocyclopentadiene	237	8.195	8.195	(0.836)	983870	160.000	189.32 (A)
69 2,4,6-Trichlorophenol	196	8.344	8.344	(0.852)	934422	160.000	172.44 (A)
70 2,4,5-Trichlorophenol	196	8.414	8.414	(0.859)	1035942	160.000	169.35 (AM)
73 2-Chloronaphthalene	162	8.670	8.670	(0.885)	2705121	160.000	152.64
77 2-Nitroaniline	65	8.932	8.932	(0.912)	846415	160.000	178.56 (A)
80 Dimethylphthalate	163	9.381	9.381	(0.957)	3160665	160.000	160.38 (A)
82 2,6-Dinitrotoluene	165	9.509	9.509	(0.971)	713449	160.000	180.15 (A)
83 Acenaphthylene	152	9.482	9.482	(0.968)	4267838	160 000	153.85
85 3-Nitroaniline	138	9.781	9.781	(0.998)	863439	160.000	176.27 (A)
86 Acenaphthene	153	9.872	9.872	(1.008)	2765306	160 000	155.46
87 2,4-Dinitrophenol	184	9.995	9.995	(1.020)	377413	160.000	261.90 (A)
89 4-Nitrophenol	109	10.155	10.155	(1.037)	464221	160.000	184.82 (A)
90 Dibenzofuran	168	10.209	10.209	(1.042)	3874412	160.000	156.41
91 2,4-Dinitrotoluene	165	10.342	10.342	(1.056)	953577	160.000	184.89 (A)
95 2,3,5,6-Tetrachlorophenol	232	10.481	10.481	(1.070)	835126	160 000	187.53 (A)
92 2,3,4,6-Tetrachlorophenol	232	10.588	10.588	(1.081)	901434	160.000	181.03 (AM)
96 2-Naphthylamine	143	10.567	10.567	(1.079)	1532114	160.000	136.40
97 Diethylphthalate	149	10.930	10.930	(1.116)	3187945	160.000	164.26 (A)
98 Fluorene	166	10.967	10.967	(1.119)	3279670	160.000	160.93 (A)
99 4-Chlorophenyl-phenylether	204	11.005	11.005	(1.123)	1664966	160 000	167.17 (A)
100 4-Nitroaniline	138	11.149	11.149	(1.138)	877686	160 000	177.34 (A)
102 4,6-Dinitro-2-methylphenol	198	11.245	11.245	(0.856)	525531	160 000	239.67 (A)
103 N-Nitrosodiphenylamine (1)	169	11.304	11.304	(0.861)	2385436	160 000	161.41 (A)
104 1,2-Diphenylhydrazine	77	11.363	11.363	(0.865)	3134459	160.000	149.66
112 4-Bromophenyl-phenylether	248	12.116	12.116	(0.923)	984291	160.000	175.31 (A)
113 Hexachlorobenzene	284	12.426	12.426	(0.946)	1095315	160.000	176.85 (A)
117 Pentachlorophenol	266	12.858	12.858	(0.979)	677045	160 000	209.12 (AM)
122 Phenanthrene	178	13.195	13.195	(1.005)	4467980	160.000	159.40
123 Anthracene	178	13.302	13.302	(1.013)	4658187	160.000	161.77 (A)
126 Carbazole	167	13.740	13.740	(1.046)	4468078	160.000	165.31 (A)
130 Di-n-Butylphthalate	149	14.878	14.878	(1.133)	5159353	160.000	172.67 (A)
135 Fluoranthene	202	16.144	16.144	(1.229)	5154954	160.000	173.72 (A)
136 Benzidine	184	16.555	16.555	(0.836)	1712336	160 000	192.45 (A)
137 Pyrene	202	16.694	16.694	(0.843)	5341318	160 000	152.00
144 Butylbenzylphthalate	149	18.628	18.628	(0.941)	2404794	160.000	188.28 (A)
149 3,3'-Dichlorobenzidine	252	19.803	19.803	(1.000)	2434858	160.000	174.91 (A)
150 Benzo(a)Anthracene	228	19.761	19.761	(0.998)	5578511	160.000	163.49 (A)

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

Page 3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
151 Chrysene	228	19.873	19.873	(1.004)	5206917	160.000	158.18
153 bis(2-ethylhexyl)Phthalate	149	20.204	20.204	(1.021)	3379673	160.000	188.98 (AM)
155 Di-n-octylphthalate	149	21.684	21.684	(0.936)	5747706	160.000	207.17 (A)
157 Benzo(b)fluoranthene	252	22.384	22.384	(0.966)	7039254	160.000	196.58 (A)
158 Benzo(k)fluoranthene	252	22.437	22.437	(0.969)	6933251	160.000	153.25
159 7,12-dimethylbenz(a)anthracen	256	22.432	22.432	(0.968)	3549769	160.000	176.76 (A)
167 Benzo(a)pyrene	252	23.062	23.062	(0.996)	5850350	160.000	174.45 (A)
169 Indeno(1,2,3-cd)pyrene	276	25.525	25.525	(1.102)	8427557	160.000	183.21 (A)
170 Dibenz(a,h)anthracene	278	25.567	25.567	(1.104)	7651081	160.000	185.10 (A)
171 Benzo(g,h,i)perylene	276	26.150	26.150	(1.129)	6809822	160.000	179.84 (A)
\$ 172 Nitrobenzene-d5	82	5.834	5.834	(0.868)	1524726	160.000	156.87
\$ 173 2-Fluorobiphenyl	172	8.494	8.494	(0.867)	3126164	160.000	153.48
\$ 174 Terphenyl-d14	244	17.218	17.218	(0.870)	4349943	160.000	159.33
\$ 175 Phenol-d5	99	4.829	4.829	(0.936)	1859333	160.000	155.70
\$ 176 2-Fluorophenol	112	3.814	3.814	(0.739)	1478343	160.000	156.47
\$ 177 2,4,6-Tribromophenol	330	11.560	11.560	(0.880)	507143	160.000	195.21 (A)
\$ 178 2-Chlorophenol-d4	132	4.957	4.957	(0.961)	1361849	160.000	156.41
\$ 179 1,2-Dichlorobenzene-d4	152	5.374	5.374	(1.041)	1029497	160.000	154.57

QC Flag Legend

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

669 328

Data File Name. S0824C05.D

Inj. Date and Time: 24-AUG-2000 17.46

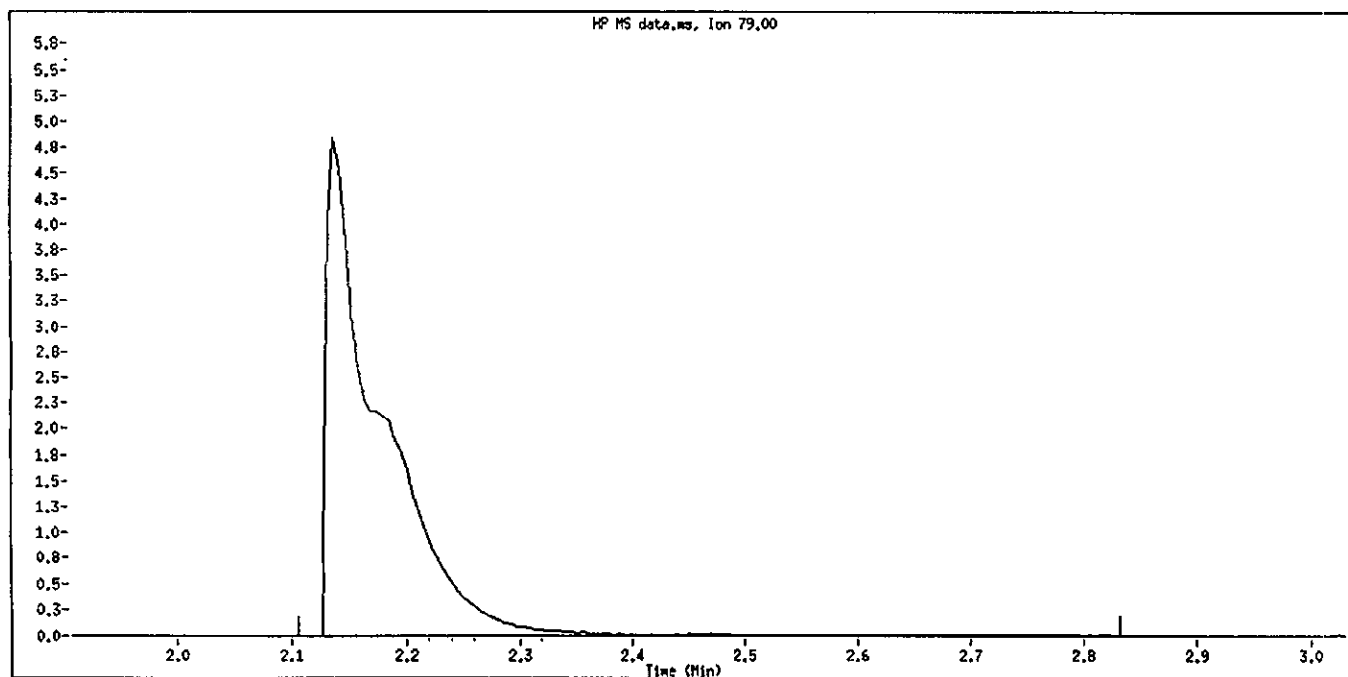
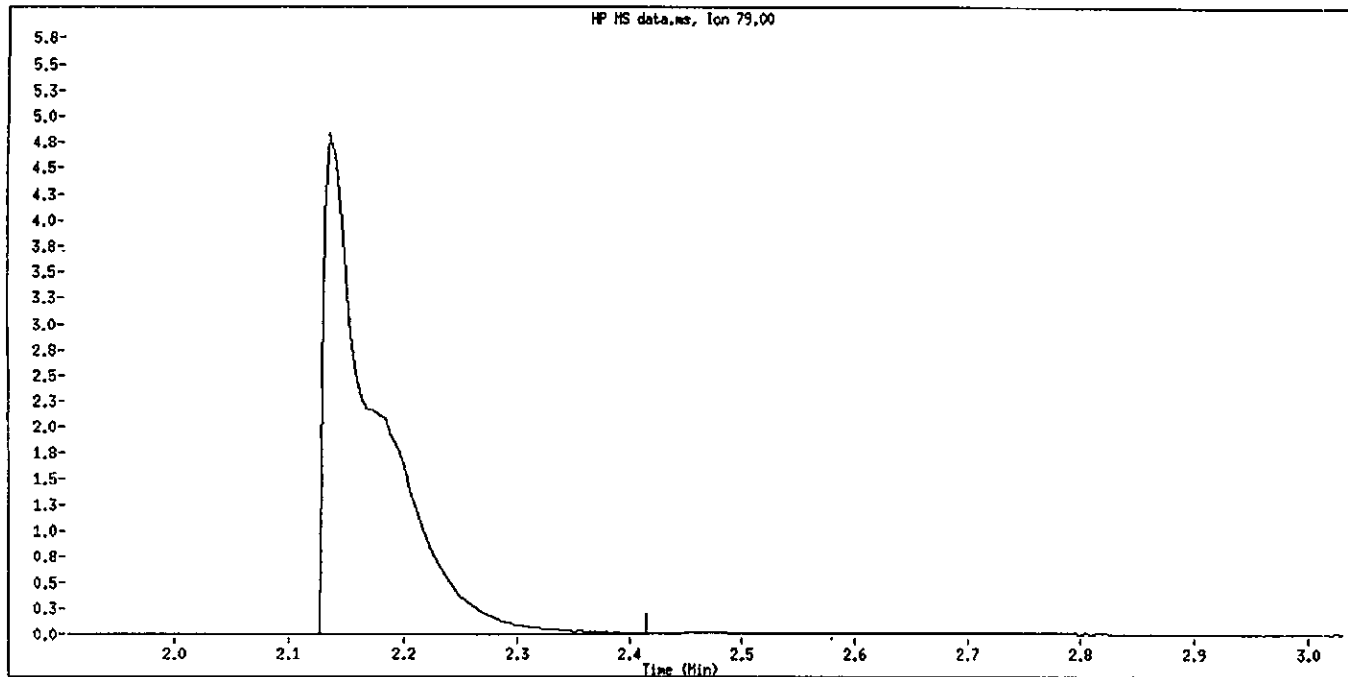
Instrument ID: 71.1

Client ID SSTD160

Compound Name. Pyridine

CAS #: 110-86-1

Report Date 08/25/2000



Manually Integrated By BachaS

Manual Integration Reason: Unknown

Data File Name S0824C05.D

Inj Date and Time: 24-AUG-2000 17:46

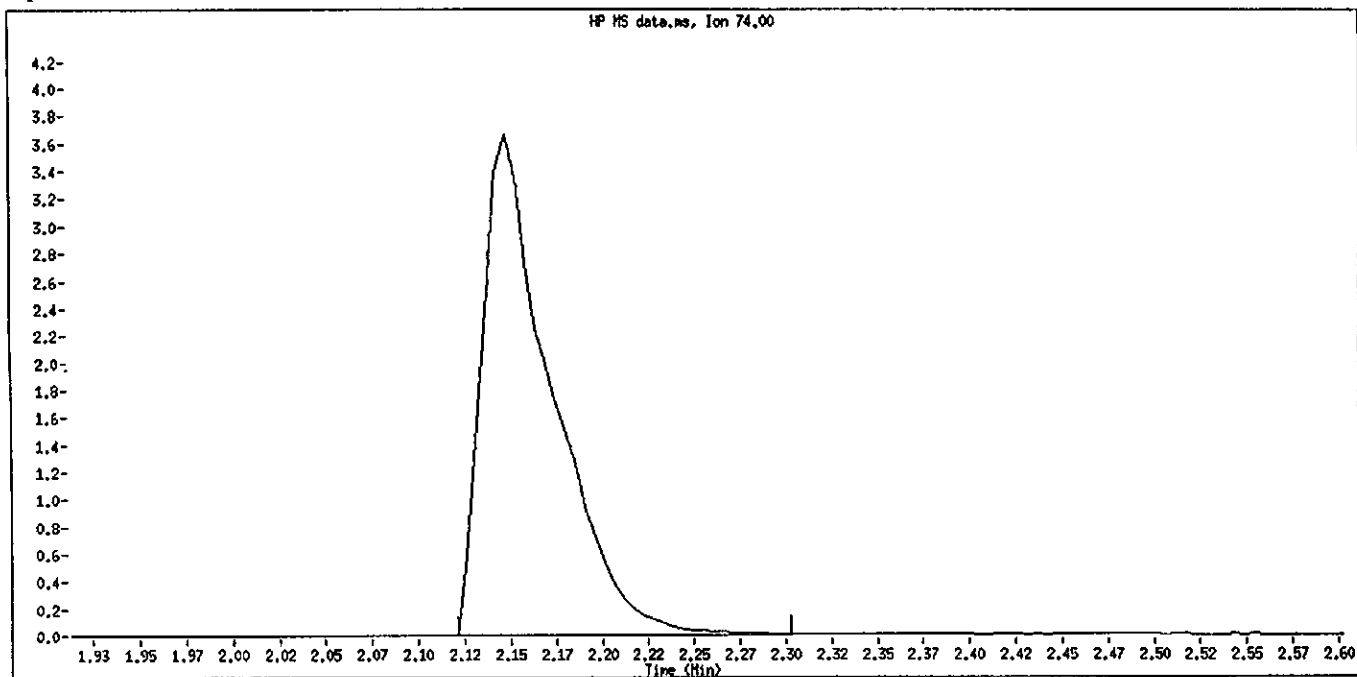
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Client ID: SST0160

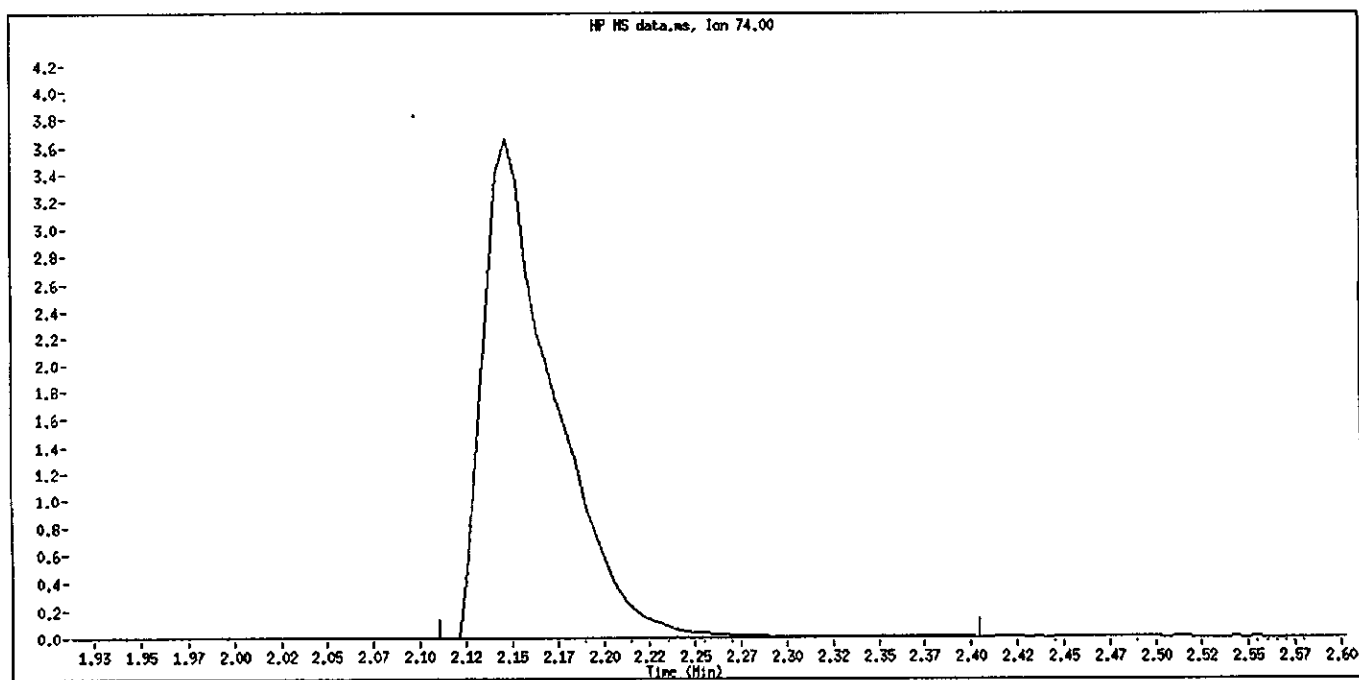
Compound Name: N-Nitrosodimethylamine

CAS #: 62-75-9

Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Unknown

669 330

Data File Name: S0824C05.D

Inj. Date and Time: 24-AUG-2000 17.46

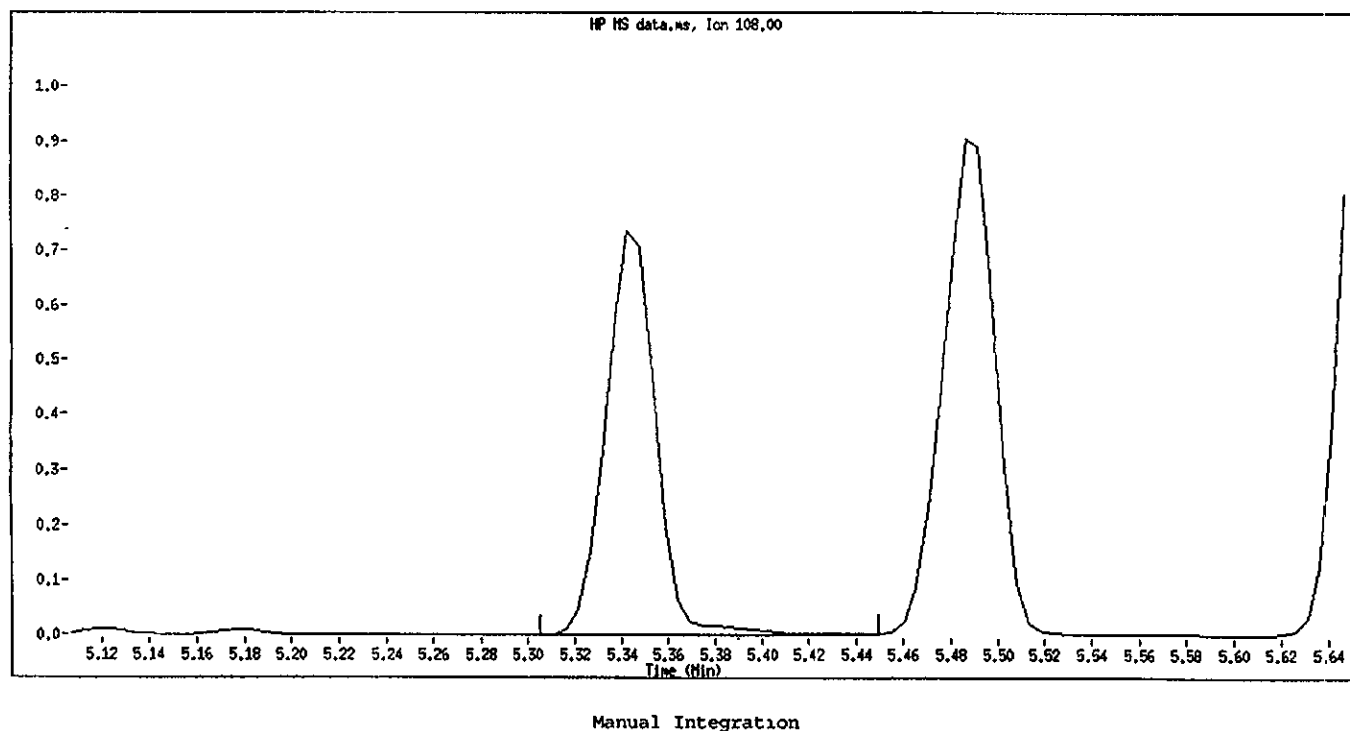
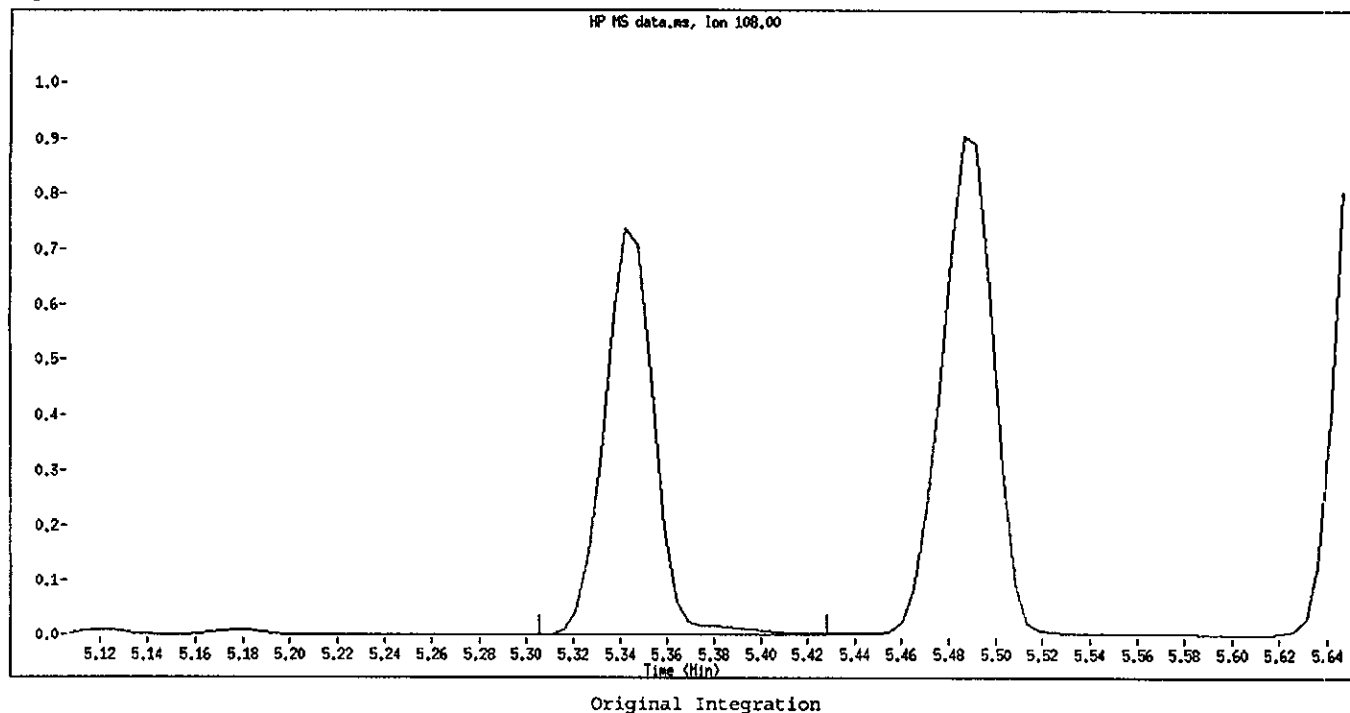
Instrument ID: 71 i

Client ID SSTD160

Compound Name: Benzyl Alcohol

CAS # 100-51-6

Report Date 08/25/2000

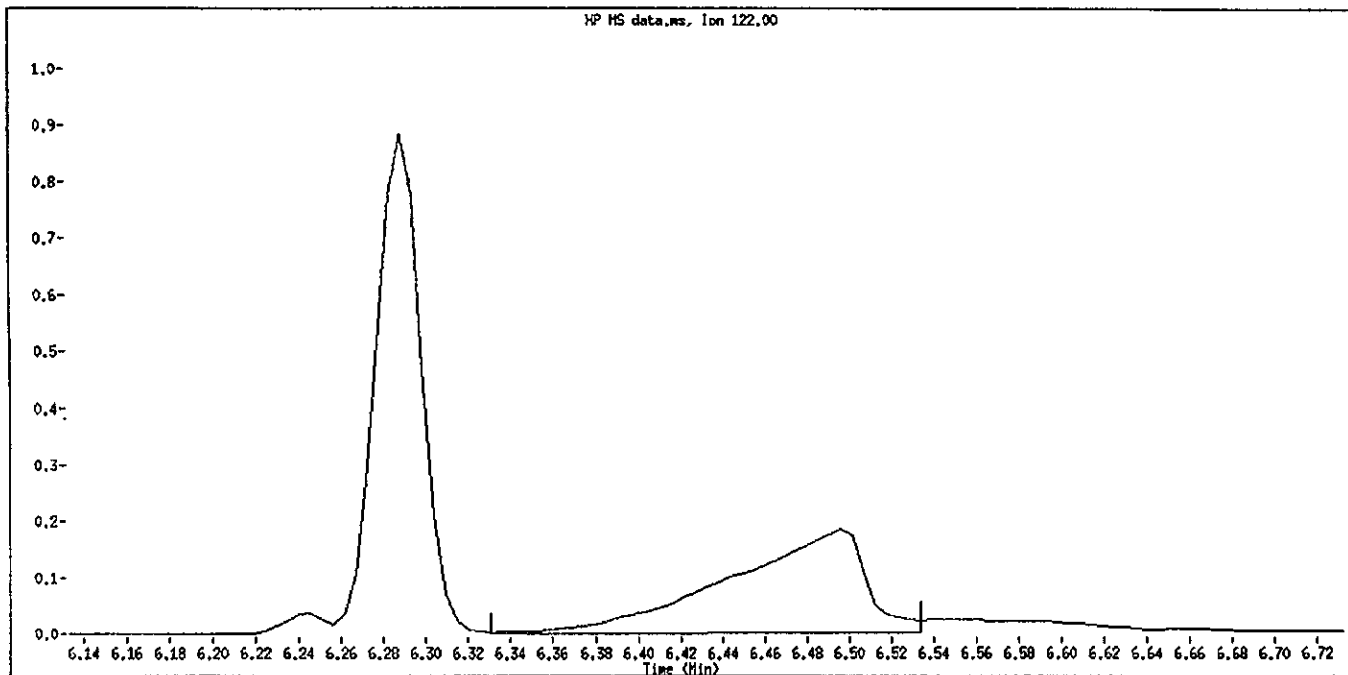


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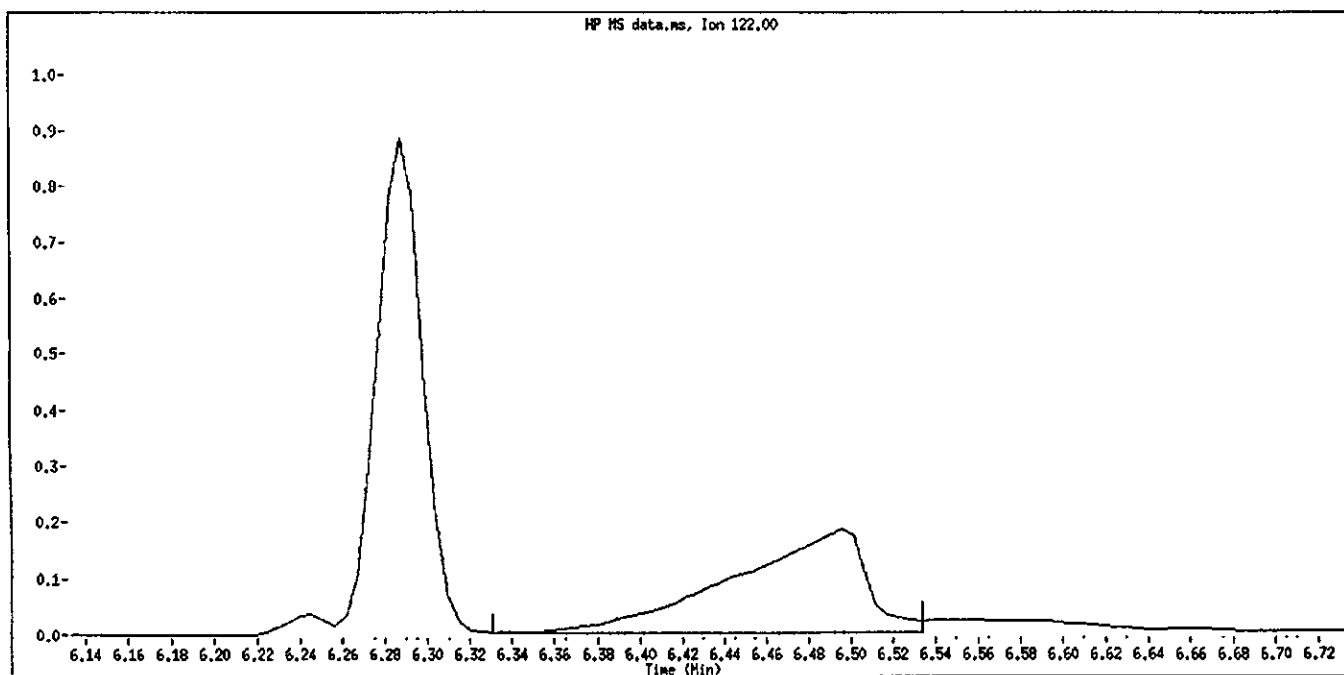
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Inj. Date and Time: 24-AUG-2000 17:46
Instrument ID: 71.1
Client ID: SST0160
Compound Name: Benzoic Acid
CAS # 65-85-0
Report Date: 08/25/2000

669 331



Original Integration



Manual Integration

Manually Integrated By: Bachas
Manual Integration Reason: Poor Chromatography

669 332

Data File Name S0824C05.D

Inj. Date and Time: 24-AUG-2000 17:46

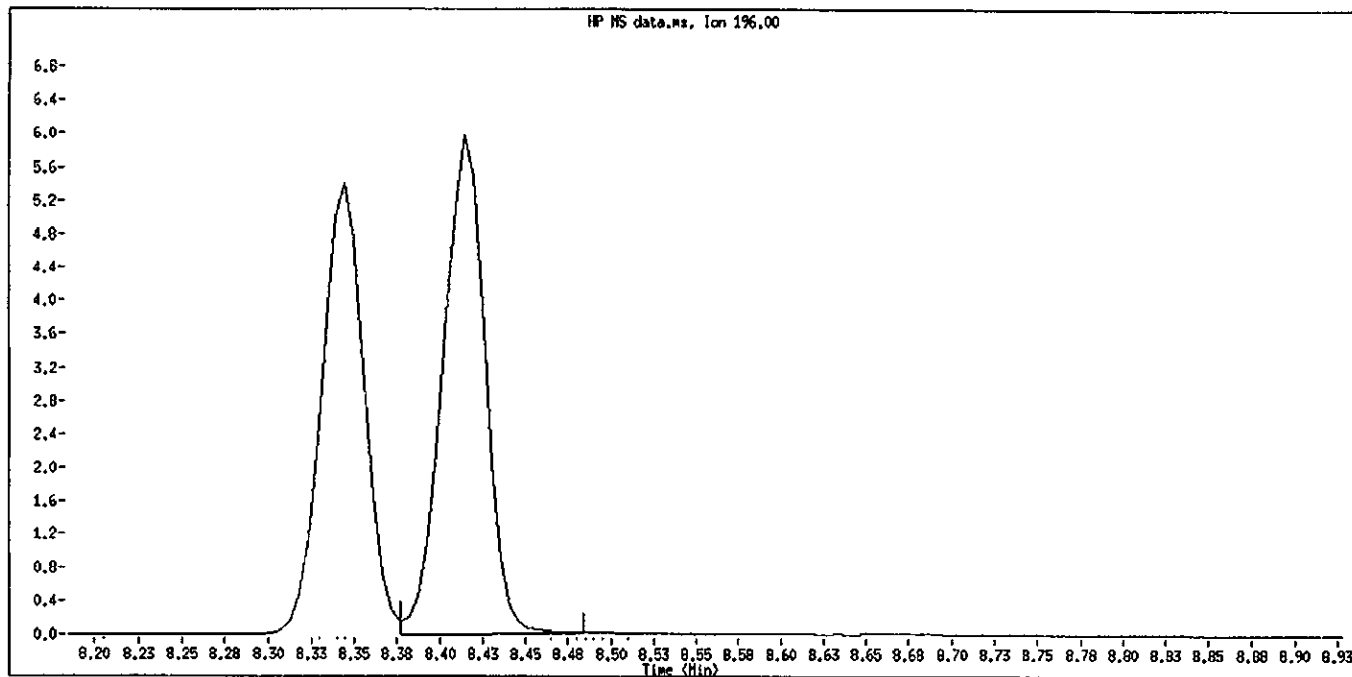
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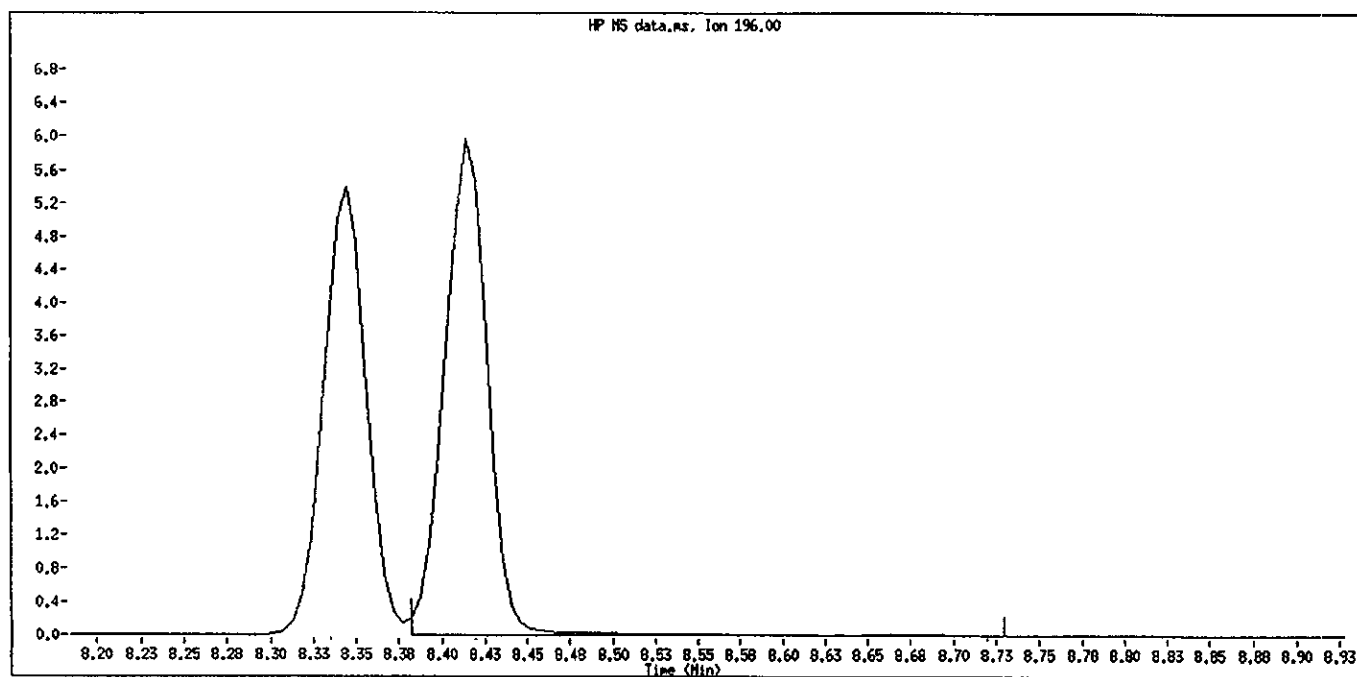
Compound Name 2,4,5-Trichlorophenol

CAS #: 95-95-4

Report Date: 08/25/2000



Original Integration



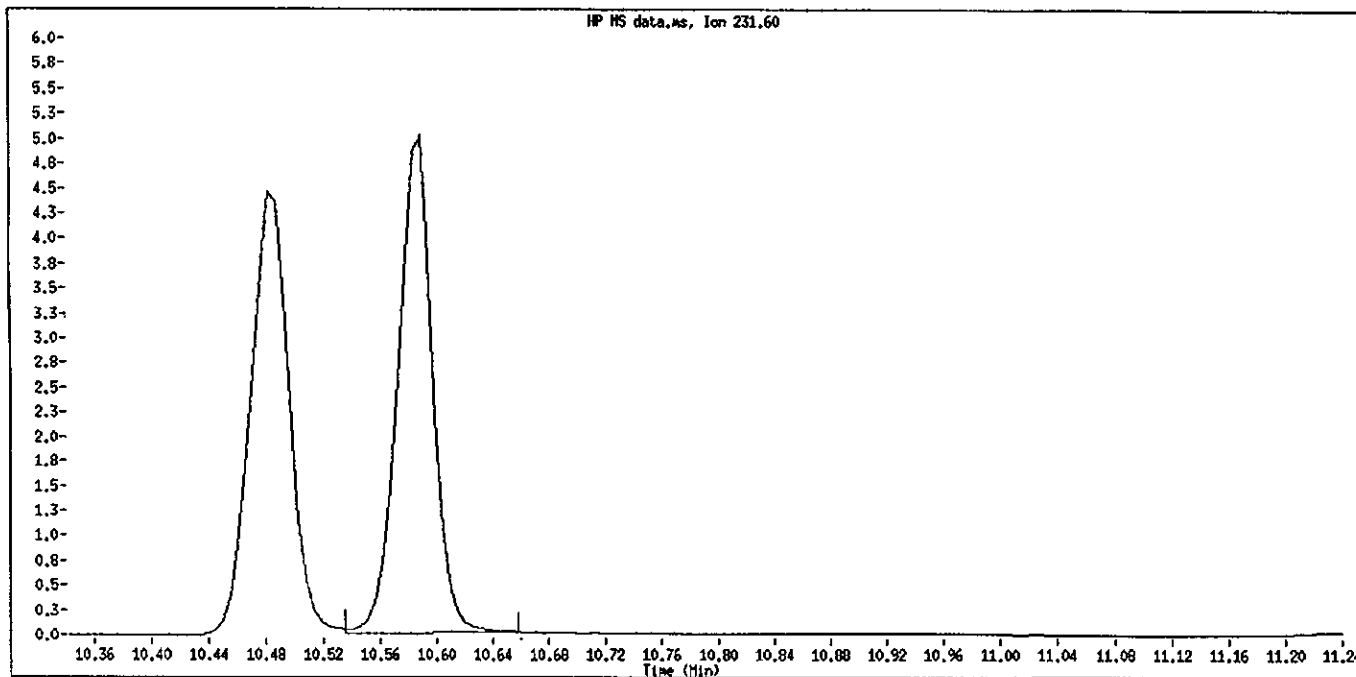
Manual Integration

Manually Integrated By: BachaS

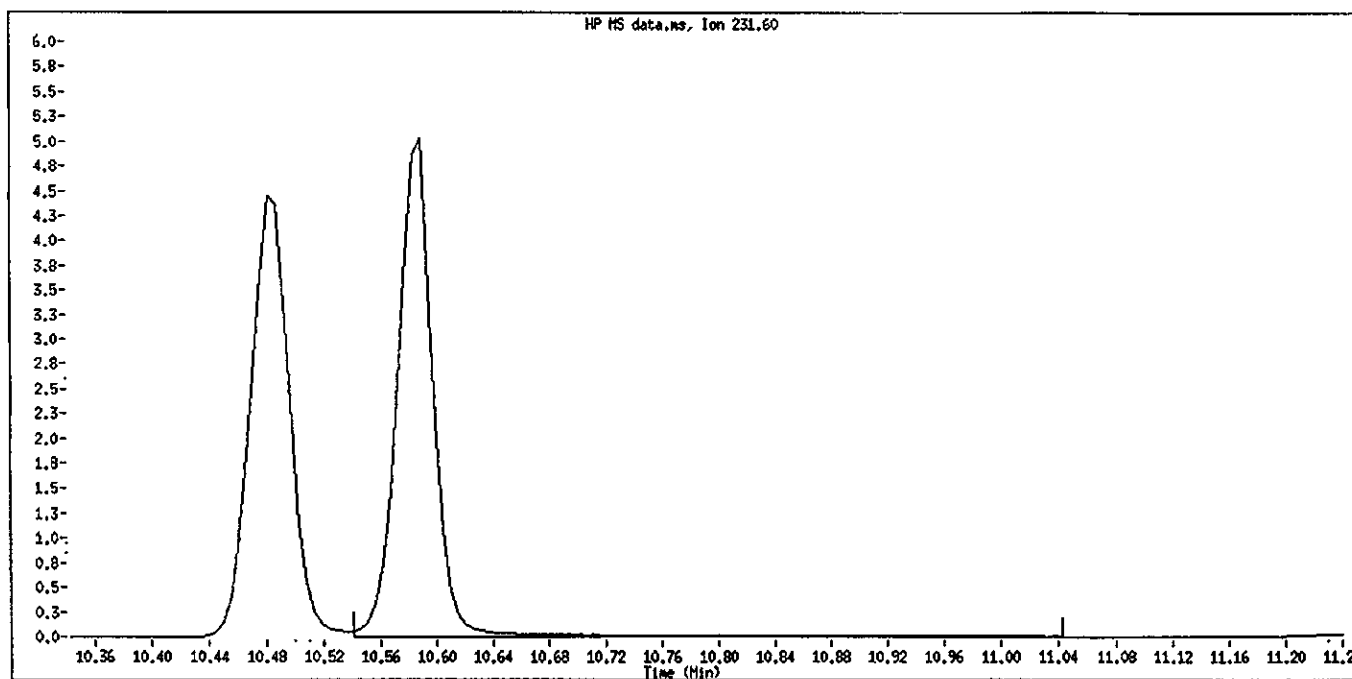
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Data File Name S0824003.D
Inj Date and Time 24-AUG-2000 17:46
Instrument ID 71.1
Client ID SSTDI60
Compound Name 2,3,4,6-Tetrachlorophenol
CAS #. 58-90-2
Report Date: 08/25/2000

669 333



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

669 334

Data File Name S0824C05.D

Inj Date and Time: 24-AUG-2000 17:46

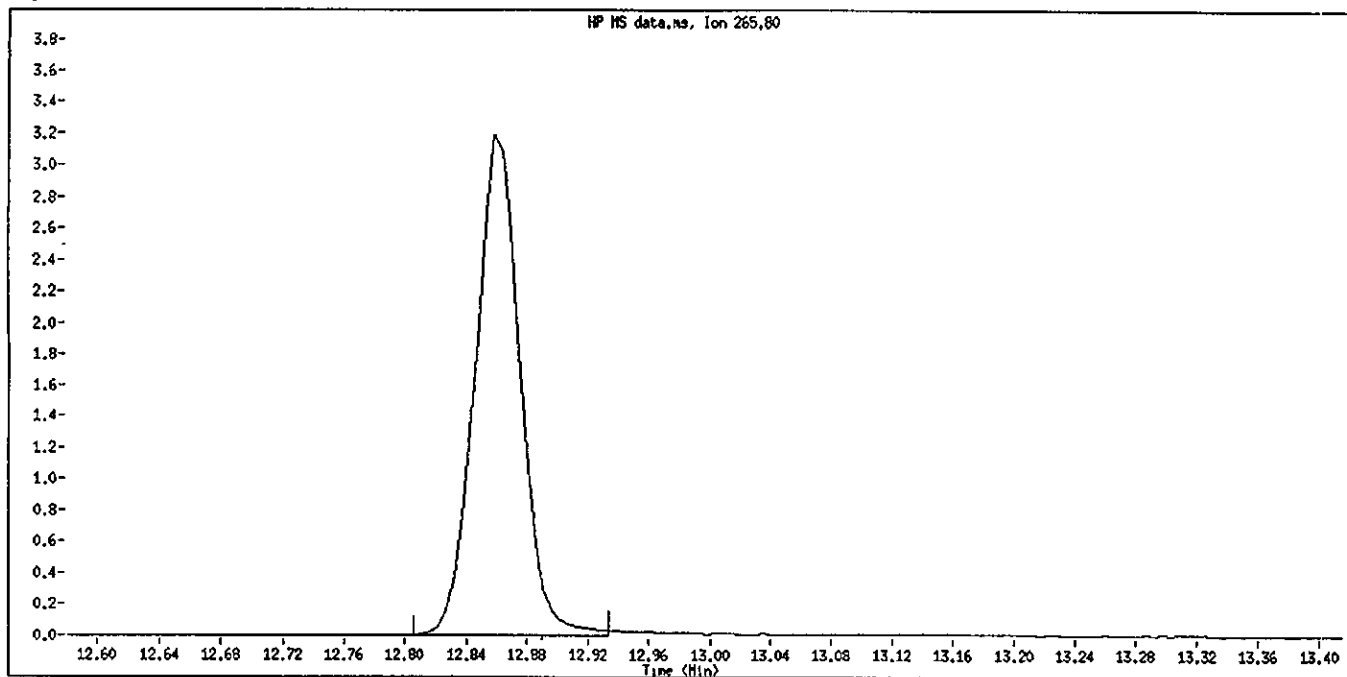
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Client ID: SSTD160

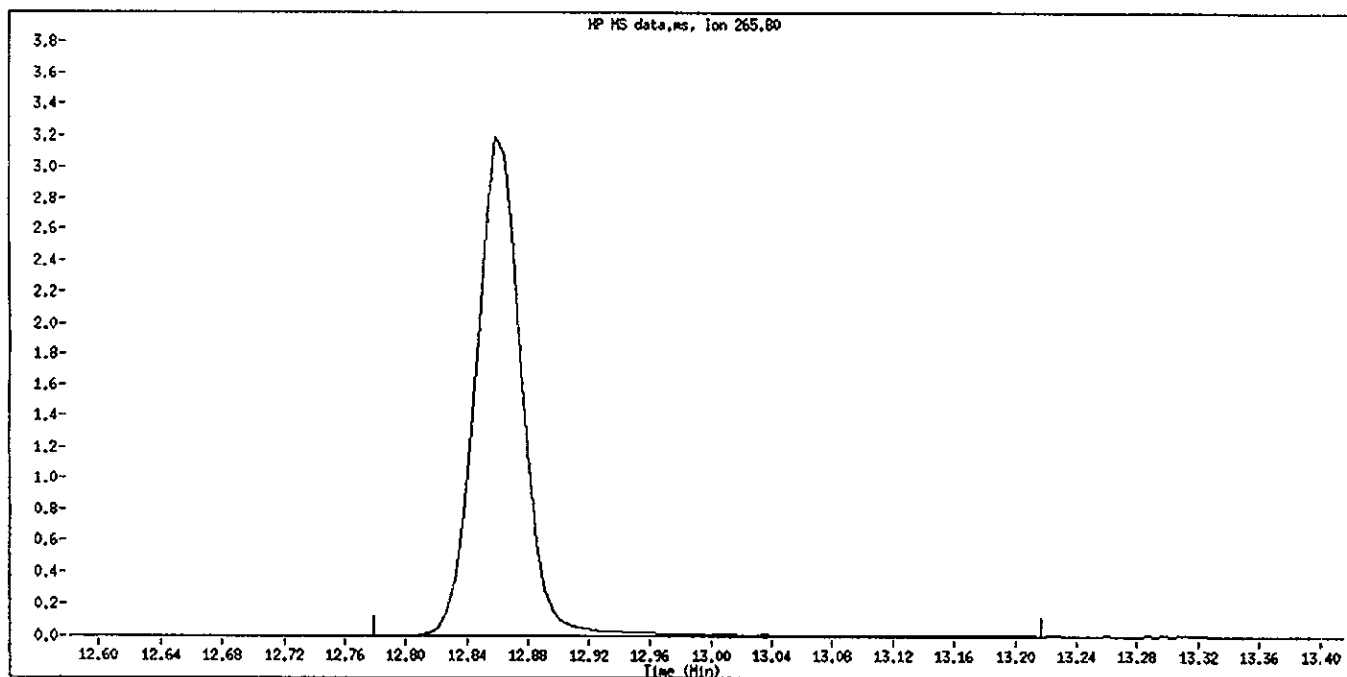
Compound Name Pentachlorophenol

CAS # 87-86-5

Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Unknown

Data File Name. S0824C05.D

Inj Date and Time. 24-AUG-2000 17:46

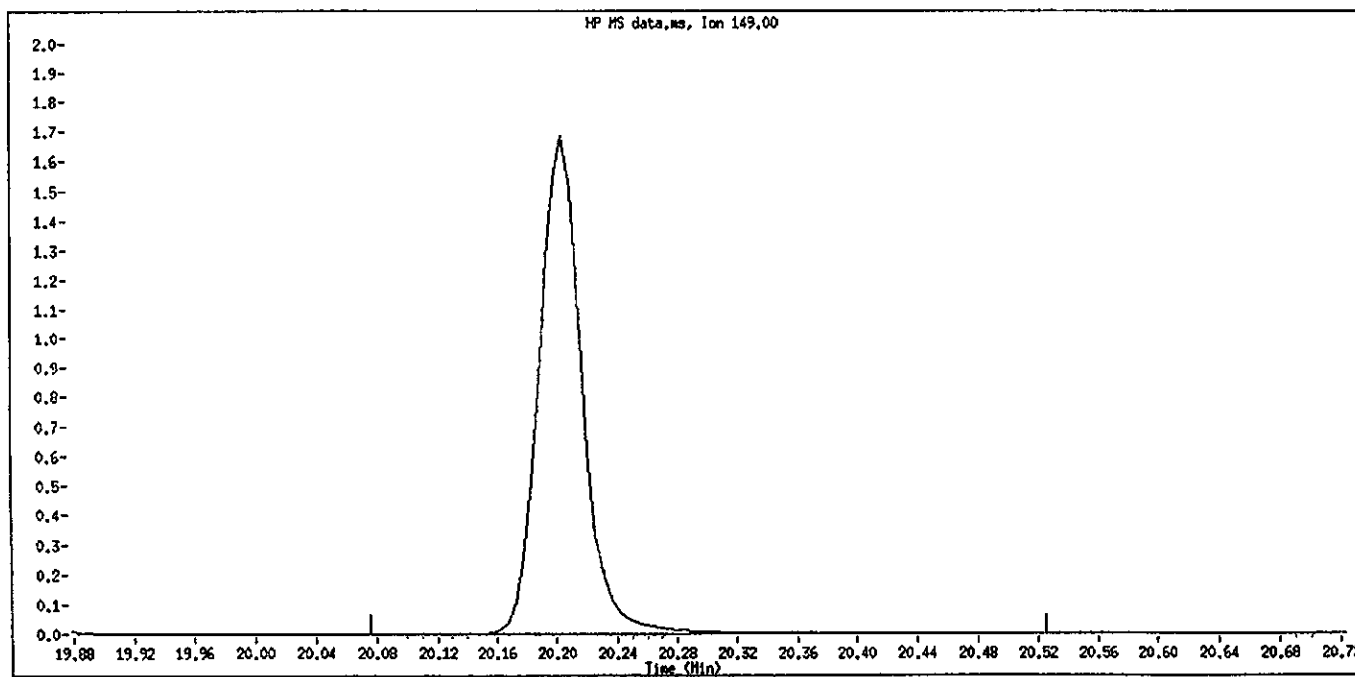
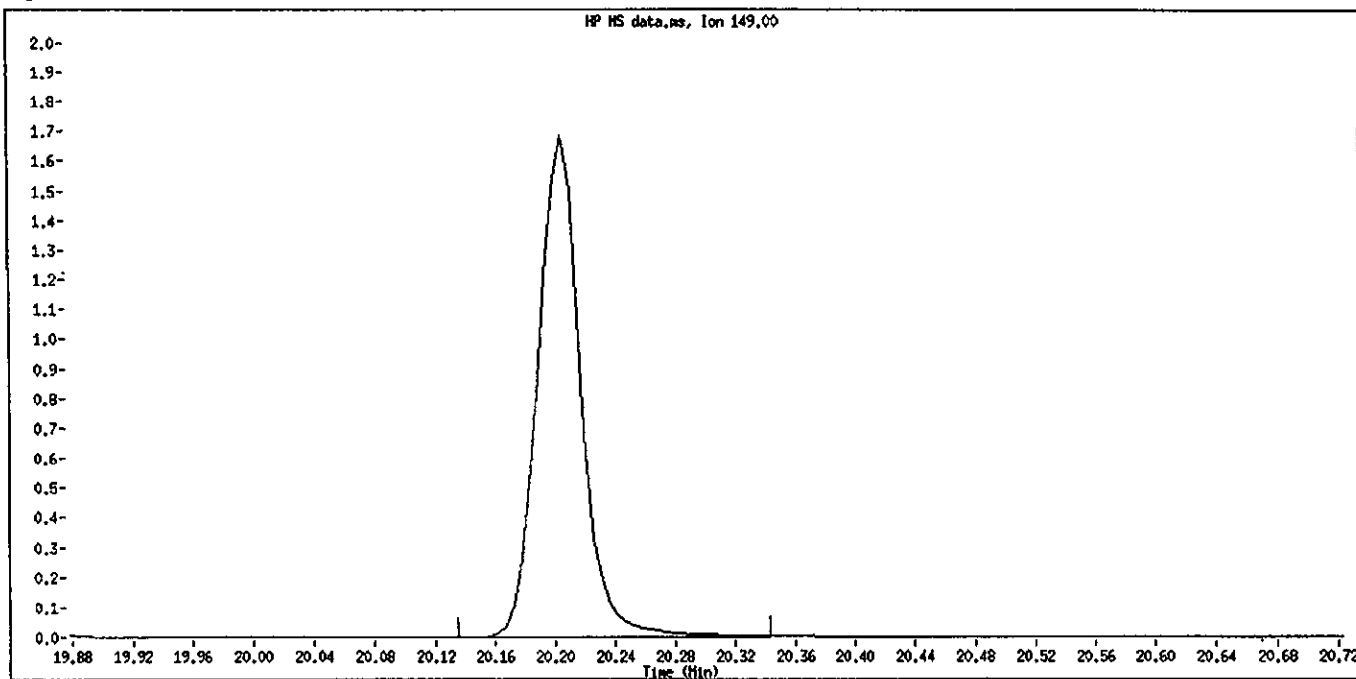
Instrument ID: 71.1

Client ID: SSTD160

Compound Name bis(2-ethylhexyl)Phthalate

CAS #: 117-81-7

Report Date. 08/25/2000



Manually Integrated By: BachaS

Manual Integration Reason: Unknown

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: COH/60154

Instrument ID: 71

Calibration Date(s): 08/25/00 08/25/00

Calibration Time(s): 1515 1851

LAB FILE ID:		RRF20 =S0825C02		RRF50 =S0825CC1		RRF80 =S0825C03		RRF120=S0825C04		RRF160=S0825C05	
COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	RRF	%	RSD		
=====		=====	=====	=====	=====	=====	=====	=====	=====		
Phenol		1.944	1.827	1.807	1.682	1.597	1.771	7.6			
bis(2-Chloroethyl) ether		1.465	1.398	1.389	1.314	1.288	1.371	5.1			
2-Chlorophenol		1.435	1.358	1.359	1.290	1.255	1.339	5.2			
1,3-Dichlorobenzene		1.577	1.494	1.495	1.412	1.381	1.472	5.3			
1,4-Dichlorobenzene		1.618	1.495	1.505	1.419	1.388	1.485	6.0			
1,2-Dichlorobenzene		1.514	1.389	1.376	1.296	1.265	1.368	7.1			
2-Methylphenol		1.306	1.230	1.217	1.136	1.106	1.199	6.6			
2,2'-oxybis(1-Chloropropane)		1.746	1.669	1.654	1.549	1.506	1.625	5.9			
4-Methylphenol		1.374	1.269	1.250	1.148	1.087	1.226	9.1			
Hexachloroethane		0.570	0.549	0.554	0.532	0.522	0.545	3.4			
Nitrobenzene		0.393	0.379	0.383	0.371	0.358	0.377	3.5			
Isophorone		0.666	0.624	0.635	0.608	0.590	0.625	4.6			
2-Nitrophenol		0.187	0.186	0.196	0.194	0.193	0.191	2.3			
2,4-Dimethylphenol		0.356	0.332	0.339	0.325	0.315	0.333	4.6			
bis(2-Chloroethoxy) methane		0.434	0.410	0.421	0.405	0.398	0.414	3.5			
N-Nitroso-di-n-propylamine *		0.940	0.893	0.888	0.831	0.812	0.873	5.9*			
2,4-Dichlorophenol		0.304	0.287	0.294	0.282	0.274	0.288	3.9			
1,2,4-Trichlorobenzene		0.339	0.322	0.336	0.328	0.326	0.330	2.1			
Naphthalene		1.156	1.069	1.074	1.014	0.966	1.056	6.7			
4-Chloroaniline		0.429	0.405	0.412	0.397	0.384	0.405	4.1			
Hexachlorobutadiene		0.200	0.197	0.207	0.206	0.207	0.203	2.2			
4-Chloro-3-Methylphenol		0.278	0.262	0.267	0.257	0.251	0.263	3.8			
2-Methylnaphthalene		0.724	0.673	0.685	0.653	0.630	0.673	5.3			
Hexachlorocyclopentadiene *		0.415	0.431	0.488	0.497	0.510	0.468	9.0*			
2,4,6-Trichlorophenol		0.388	0.374	0.407	0.403	0.404	0.395	3.5			
2,4,5-Trichlorophenol		0.410	0.388	0.424	0.418	0.414	0.411	3.4			
2-Chloronaphthalene		1.294	1.191	1.258	1.210	1.171	1.225	4.1			
2-Nitroaniline		0.280	0.284	0.311	0.312	0.312	0.300	5.4			
Dimethylphthalate		1.231	1.149	1.252	1.230	1.216	1.216	3.2			
Acenaphthylene		1.957	1.805	1.928	1.867	1.782	1.868	4.0			
2,6-Dinitrotoluene		0.242	0.239	0.267	0.269	0.267	0.257	5.8			
3-Nitroaniline		0.276	0.271	0.296	0.305	0.308	0.291	5.8			
Acenaphthene		1.240	1.149	1.221	1.189	1.147	1.189	3.5			
2,4-Dinitrophenol *		0.058	0.090	0.117	0.138	0.151	0.111	34.0*			
4-Nitrophenol *		0.098	0.105	0.120	0.133	0.140	0.119	14.7*			
Dibenzofuran		1.726	1.568	1.687	1.647	1.602	1.646	3.9			
2,4-Dinitrotoluene		0.278	0.278	0.316	0.328	0.340	0.308	9.3			

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

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

669 337

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: COH160154

Instrument ID: 71

Calibration Date(s): 08/25/00 08/25/00

Calibration Time(s): 1515 1851

LAB FILE ID:		RRF20 =S0825C02		RRF50 =S0825CC1		RRF80 =S0825C03		RRF120=S0825C04		RRF160=S0825C05	
COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	RRF	%		RSD	
=====		=====	=====	=====	=====	=====	=====	=====		=====	
Diethylphthalate		1.056	1.010	1.114	1.137	1.139	1.091	5.2			
4-Chlorophenyl-phenylether		0.633	0.586	0.640	0.637	0.639	0.627	3.7			
Fluorene		1.297	1.203	1.297	1.273	1.242	1.262	3.2			
4-Nitroaniline		0.222	0.224	0.255	0.278	0.290	0.254	12.2			
4,6-Dinitro-2-methylphenol		0.072	0.093	0.115	0.130	0.139	0.110	25.0			
N-Nitrosodiphenylamine (1)		0.620	0.594	0.629	0.621	0.604	0.614	2.3			
4-Bromophenyl-phenylether		0.241	0.235	0.257	0.252	0.254	0.248	3.7			
Hexachlorobenzene		0.254	0.242	0.267	0.270	0.275	0.262	5.1			
Pentachlorophenol		0.107	0.124	0.145	0.159	0.165	0.140	17.3			
Phenanthrene		1.141	1.064	1.150	1.136	1.110	1.120	3.1			
Anthracene		1.144	1.083	1.173	1.168	1.146	1.143	3.1			
Carbazole		0.906	0.888	1.003	1.052	1.062	0.982	8.3			
Di-n-Butylphthalate		0.843	0.935	1.110	1.195	1.218	1.060	15.5			
Fluoranthene		0.834	0.872	1.044	1.160	1.187	1.019	15.9			
Pyrene		1.342	1.124	1.100	0.987	0.960	1.103	13.7			
Butylbenzylphthalate		0.369	0.380	0.439	0.450	0.459	0.419	10.0			
3,3'-Dichlorobenzidine		0.345	0.391	0.458	0.476	0.484	0.431	14.0			
Benzo (a) Anthracene		1.019	0.987	1.058	1.060	1.077	1.040	3.5			
Chrysene		1.036	0.967	1.024	1.024	1.025	1.015	2.7			
bis(2-ethylhexyl) Phthalate		0.670	0.664	0.727	0.725	0.709	0.699	4.3			
Di-n-octylphthalate		1.170	1.130	1.274	1.288	1.278	1.228	5.9			
Benzo (b) fluoranthene		1.102	1.083	1.175	1.192	1.291	1.169	7.1			
Benzo (k) fluoranthene		1.340	1.310	1.527	1.598	1.498	1.455	8.5			
Benzo (a) pyrene		1.090	1.062	1.206	1.236	1.262	1.171	7.7			
Indeno (1,2,3-cd) pyrene		1.696	1.604	1.762	1.815	1.862	1.748	5.8			
Dibenz (a,h) anthracene		1.474	1.422	1.574	1.632	1.663	1.553	6.6			
Benzo (g,h,i) perylene		1.460	1.363	1.500	1.505	1.550	1.476	4.8			
Pyridine		1.320	1.285	1.346	1.315	1.280	1.309	2.1			
N-Nitrosodimethylamine		0.821	0.817	0.823	0.798	0.791	0.810	1.8			
Aniline		1.900	1.791	1.841	1.701	1.641	1.775	5.9			
Benzyl Alcohol		0.995	0.946	0.980	0.909	0.877	0.941	5.2			
Benzoic Acid		0.044	0.059	0.132	0.122	0.140	0.099	44.7			
1-Methylnaphthalene		0.683	0.628	0.662	0.619	0.597	0.638	5.4			
2,3,4,6-Tetrachlorophenol		0.278	0.274	0.315	0.321	0.327	0.303	8.3			
2,3,5,6-Tetrachlorophenol		0.263	0.262	0.309	0.314	0.322	0.294	9.9			
1,2-Diphenylhydrazine		0.945	0.907	0.942	0.890	0.849	0.907	4.4			
Benzidine		0.169	0.282	0.336	0.358	0.366	0.302	26.9			

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

SEMIVOLATILE ORGANICS 6C INITIAL CALIBRATION DATA

Contract :

SDG No.: C04160K4

Calibration Date(s) : 08/25/00 08/25/00

Calibration Time(s): 1515 1851

* 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: 71.i
Lab File ID: S0825CC1.D
Analysis Type: NONE

Injection Date: 25-AUG-2000 15:15
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s082500.b\

COMPOUND	%RSD
=====	-----
Benzo(b)fluoranthene	7.1
Benzo(k)fluoranthene	8.5
7,12-dimethylbenz(a)anthracen	12.7
Benzo(a)pyrene	7.7
Indeno(1,2,3-cd)pyrene	5.8
Dibenz(a,h)anthracene	6.6
Benzo(g,h,i)perylene	4.8

The average of all %RSD's in the initial calibration is 7.3

INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0825CC1.D
Analysis Type: NONEInjection Date: 25-AUG-2000 15:15
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s082500.b\8270clp

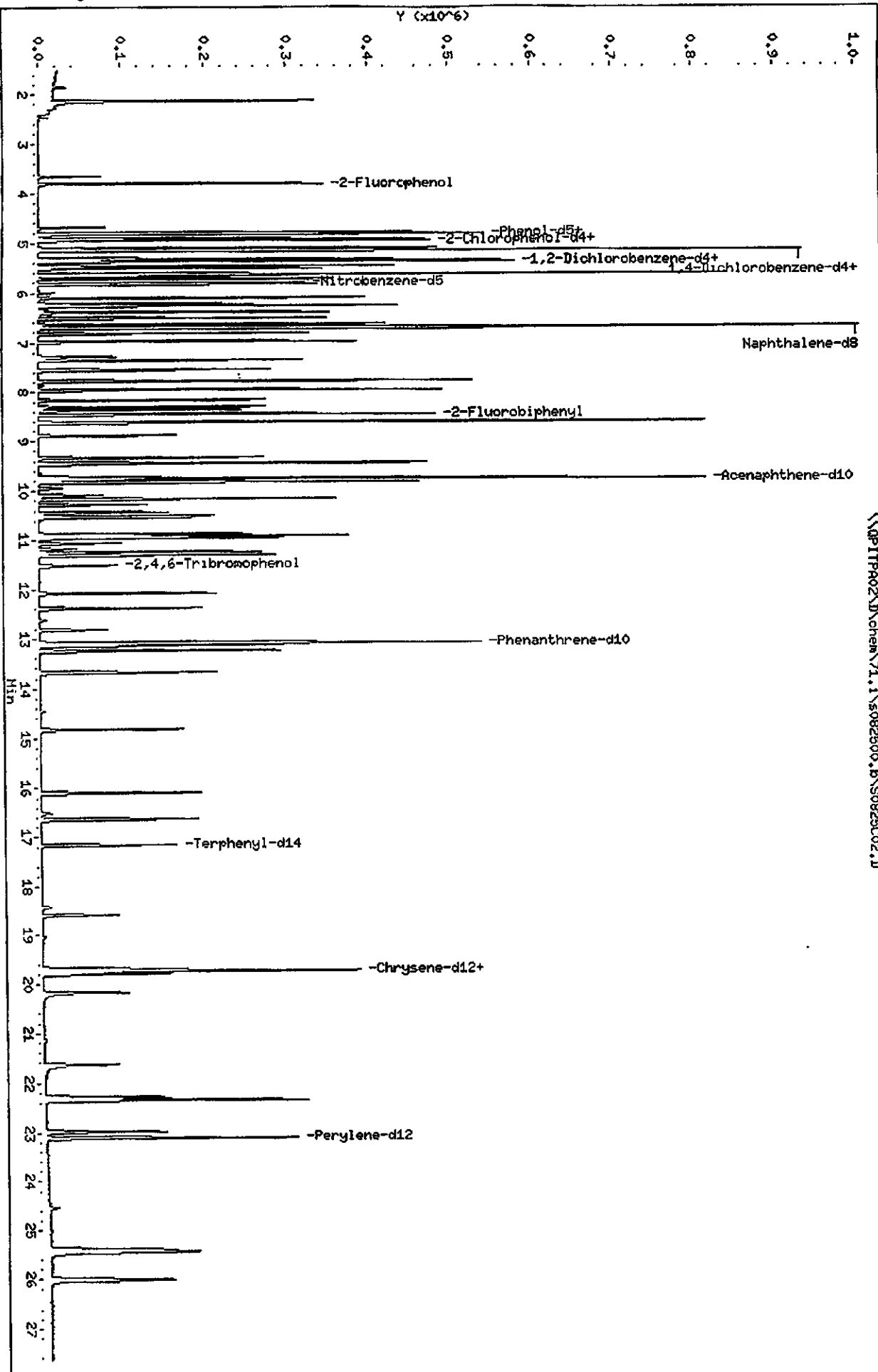
COMPOUND	%RSD
N-Nitrosodimethylamine	1.8
Pyridine	2.1
Methyl methanesulfonate	2.6
2-Fluorophenol	2.9
Phenol-d5	5.7
Phenol	7.6
Aniline	5.9
bis(2-Chloroethyl)ether	5.1
2-Chlorophenol-d4	5.0
2-Chlorophenol	5.2
1,3-Dichlorobenzene	5.3
1,4-Dichlorobenzene	6.0
Benzyl Alcohol	5.2
1,2-Dichlorobenzene-d4	4.7
1,2-Dichlorobenzene	7.1
2-Methylphenol	6.6
2,2'-oxybis(1-Chloropropane)	5.9
4-Methylphenol	9.1
N-Nitroso-di-n-propylamine	5.9
Hexachloroethane	3.4
Nitrobenzene-d5	2.4
Nitrobenzene	3.5
Isophorone	4.6
2-Nitrophenol	2.3
2,4-Dimethylphenol	4.6
Benzoic Acid	44.7
bis(2-Chloroethoxy)methane	3.5
2,4-Dichlorophenol	3.9
1,2,4-Trichlorobenzene	2.1
Naphthalene	6.7
4-Chloroaniline	4.1
Hexachlorobutadiene	2.2
4-Chloro-3-Methylphenol	3.8
2-Methylnaphthalene	5.3
1-Methylnaphthalene	5.4
Hexachlorocyclopentadiene	9.0
2,4,6-Trichlorophenol	3.5
2,4,5-Trichlorophenol	3.4
2-Fluorobiphenyl	3.4

INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0825CC1.D
Analysis Type: NONE

Injection Date: 25-AUG-2000 15:15
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s082500.b\

COMPOUND	%RSD
2-Chloronaphthalene	4.1
2-Nitroaniline	5.4
Dimethylphthalate	3.2
Acenaphthylene	4.0
2,6-Dinitrotoluene	5.8
3-Nitroaniline	5.8
Acenaphthene	3.5
2,4-Dinitrophenol	34.0
4-Nitrophenol	14.7
Dibenzofuran	3.9
2,4-Dinitrotoluene	9.3
2,3,5,6-Tetrachlorophenol	9.9
2-Naphthylamine	3.7
2,3,4,6-Tetrachlorophenol	8.3
Diethylphthalate	5.2
Fluorene	3.2
4-Chlorophenyl-phenylether	3.7
4-Nitroaniline	12.2
4,6-Dinitro-2-methylphenol	25.0
N-Nitrosodiphenylamine (1)	2.3
1,2-Diphenylhydrazine	4.4
2,4,6-Tribromophenol	9.3
4-Bromophenyl-phenylether	3.7
Hexachlorobenzene	5.1
Pentachlorophenol	17.3
Phenanthrene	3.1
Anthracene	3.1
Carbazole	8.3
Di-n-Butylphthalate	15.5
Fluoranthene	15.9
Benzidine	26.9
Pyrene	13.7
Terphenyl-d14	9.4
Butylbenzylphthalate	10.0
Benzo(a)Anthracene	3.5
3,3'-Dichlorobenzidine	14.0
Chrysene	2.7
bis(2-ethylhexyl) Phthalate	4.3
Di-n-octylphthalate	5.9



Data File: \\GPITPA02\N\chem\71.1\5082500.b\50825002.D
Date: 25-AUG-2000 15:49
Client ID: SSTD20
Sample Info: sstd20(10 ug/ml) 194-188-3 8270/c1p
Column phase: Hp5-MS

\\GPITPA02\N\chem\71.1\5082500.b\50825002.D

Instrument: 71.1
Operator: 095183
Column diameter: 0.25

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082500.b\S0825C02.D
Lab Smp Id: sstd20 Client Smp ID: SSTD20
Inj Date : 25-AUG-2000 15:49
Operator : 045183 Inst ID: 71.i
Smp Info : sstd20(10 ug/ml) 194-188-3 8270/clp
Misc Info : sstd20,s082500.b,8270clp.m,1-82701.sub,1,1
Comment :
Method : \\QPITPA02\D\chem\71.i\s082500.b\8270clp.m
Meth Date : 28-Aug-2000 08:45 bachas Quant Type: ISTD
Cal Date : 25-AUG-2000 15:49 Cal File: S0825C02.D
Als bottle: 96 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5.137	5.137	(1.000)	190507	40.0000	
* 2 Naphthalene-d8	136	6.692	6.692	(1.000)	707779	40.0000	
* 3 Acenaphthene-d10	164	9.763	9.763	(1.000)	351557	40.0000	
* 4 Phenanthrene-d10	188	13.086	13.086	(1.000)	462539	40.0000	
* 5 Chrysene-d12	240	19.732	19.732	(1.000)	287737	40.0000	
* 6 Perylene-d12	264	23.103	23.103	(1.000)	297064	40.0000	
13 N-Nitrosodimethylamine	74	2.114	2.114	(0.411)	78211	20.0000	20.048 (M)
10 Pyridine	79	2.119	2.119	(0.413)	125734	20.0000	20.270 (M)
19 Methyl methanesulfonate	80	3.647	3.647	(0.710)	35038	20.0000	20.038 (M)
22 Aniline	93	4.827	4.827	(0.940)	181027	20.0000	20.591
23 Phenol	94	4.811	4.811	(0.937)	185176	20.0000	20.619
24 bis(2-Chloroethyl)ether	93	4.902	4.902	(0.954)	139529	20.0000	20.469
25 2-Chlorophenol	128	4.945	4.945	(0.963)	136670	20.0000	20.548
27 1,3-Dichlorobenzene	146	5.100	5.100	(0.993)	150239	20.0000	20.542
28 1,4-Dichlorobenzene	146	5.159	5.159	(1.004)	154086	20.0000	20.786
29 1,2-Dichlorobenzene	146	5.367	5.367	(1.045)	144222	20.0000	20.858
30 Benzyl Alcohol	108	5.313	5.313	(1.034)	94815	20.0000	20.508 (M)
31 2-Methylphenol	108	5.458	5.458	(1.062)	124417	20.0000	20.603
32 2,2'-oxybis(1-Chloropropane)	45	5.495	5.495	(1.070)	166349	20.0000	20.451
33 N-Nitroso-di-n-propylamine	70	5.650	5.650	(1.100)	89544	20.0000	20.512
35 4-Methylphenol	108	5.618	5.618	(1.094)	130864	20.0000	20.794
38 Hexachloroethane	117	5.714	5.714	(1.112)	54281	20.0000	20.375
39 Nitrobenzene	77	5.821	5.821	(0.870)	139038	20.0000	20.370
44 Isophorone	82	6.099	6.099	(0.911)	235565	20.0000	20.646
45 2-Nitrophenol	139	6.216	6.216	(0.929)	66336	20.0000	20.058
46 2,4-Dimethylphenol	107	6.254	6.254	(0.935)	125935	20.0000	20.686

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.387	6.387	(0.954)	153759	20.0000	20.573
51 2,4-Dichlorophenol	162	6.510	6.510	(0.973)	107532	20.0000	20.582
52 Benzoic Acid	122	6.334	6.334	(0.947)	15712	20.0000	17.196 (MH)
53 1,2,4-Trichlorobenzene	180	6.633	6.633	(0.991)	120088	20.0000	20.510
54 Naphthalene	128	6.718	6.718	(1.004)	409157	20.0000	20.783
55 4-Chloroaniline	127	6.820	6.820	(1.019)	151787	20.0000	20.561
59 Hexachlorobutadiene	225	6.980	6.980	(1.043)	70816	20.0000	20.164
62 4-Chloro-3-Methylphenol	107	7.546	7.546	(1.128)	98233	20.0000	20.573
65 2-Methylnaphthalene	142	7.771	7.771	(1.161)	256427	20.0000	20.734
66 1-Methylnaphthalene	142	7.952	7.952	(1.188)	241722	20.0000	20.831
67 Hexachlorocyclopentadiene	237	8.166	8.166	(0.836)	72991	20.0000	19.622
69 2,4,6-Trichlorophenol	196	8.305	8.305	(0.851)	68124	20.0000	20.340
70 2,4,5-Trichlorophenol	196	8.369	8.369	(0.857)	72104	20.0000	20.548
73 2-Chloronaphthalene	162	8.626	8.626	(0.883)	227378	20.0000	20.824
77 2-Nitroaniline	65	8.887	8.887	(0.910)	49277	20.0000	19.868
80 Dimethylphthalate	163	9.336	9.336	(0.956)	216469	20.0000	20.693
82 2,6-Dinitrotoluene	165	9.459	9.459	(0.969)	42535	20.0000	20.118
83 Acenaphthylene	152	9.443	9.443	(0.967)	343930	20.0000	20.804
85 3-Nitroaniline	138	9.721	9.721	(0.996)	48470	20.0000	20.161
86 Acenaphthene	153	9.828	9.828	(1.007)	217898	20.0000	20.758
87 2,4-Dinitrophenol	184	9.940	9.940	(1.018)	10198	20.0000	15.708
89 4-Nitrophenol	109	10.084	10.084	(1.033)	17322	20.0000	19.365
90 Dibenzofuran	168	10.164	10.164	(1.041)	303414	20.0000	20.963
91 2,4-Dinitrotoluene	165	10.276	10.276	(1.053)	48967	20.0000	20.022
95 2,3,5,6-Tetrachlorophenol	232	10.437	10.437	(1.069)	46211	20.0000	20.027
92 2,3,4,6-Tetrachlorophenol	232	10.533	10.533	(1.079)	48900	20.0000	20.168
96 2-Naphthylamine	143	10.506	10.506	(1.076)	150473	20.0000	20.730
97 Diethylphthalate	149	10.875	10.875	(1.114)	185558	20.0000	20.440
98 Fluorene	166	10.917	10.917	(1.118)	227983	20.0000	20.755
99 4-Chlorophenyl-phenylether	204	10.955	10.955	(1.122)	111331	20.0000	20.772
100 4-Nitroaniline	138	11.062	11.062	(1.133)	39007	20.0000	19.922
102 4,6-Dinitro-2-methylphenol	198	11.168	11.168	(0.853)	16539	20.0000	17.360
103 N-Nitrosodiphenylamine (1)	169	11.243	11.243	(0.859)	143315	20.0000	20.425
104 1,2-Diphenylhydrazine	77	11.307	11.307	(0.864)	218541	20.0000	20.410
112 4-Bromophenyl-phenylether	248	12.071	12.071	(0.922)	55700	20.0000	20.227
113 Hexachlorobenzene	284	12.376	12.376	(0.946)	58638	20.0000	20.470
117 Pentachlorophenol	266	12.808	12.808	(0.979)	24823	20.0000	18.593
122 Phenanthrene	178	13.140	13.140	(1.004)	263865	20.0000	20.698
123 Anthracene	178	13.247	13.247	(1.012)	264597	20.0000	20.544
126 Carbazole	167	13.679	13.679	(1.045)	209427	20.0000	20.195
130 Di-n-Butylphthalate	149	14.828	14.828	(1.133)	194938	20.0000	18.961
135 Fluoranthene	202	16.089	16.089	(1.229)	192903	20.0000	19.550
136 Benzidine	184	16.511	16.511	(0.837)	24294	20.0000	14.983 (M)
137 Pyrene	202	16.628	16.628	(0.843)	193112	20.0000	21.771
144 Butylbenzylphthalate	149	18.578	18.578	(0.942)	53073	20.0000	19.715
149 3,3'-Dichlorobenzidine	252	19.737	19.737	(1.000)	49617	20.0000	18.740
150 Benzo(a)Anthracene	228	19.694	19.694	(0.998)	146602	20.0000	20.319

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----	-----
151 Chrysene	228	19.796	19.796	(1.003)	149064	20.0000	20.690
153 bis(2-ethylhexyl) Phthalate	149	20.154	20.154	(1.021)	96431	20.0000	20.091 (M)
155 Di-n-octylphthalate	149	21.623	21.623	(0.936)	173759	20.0000	20.346 (M)
157 Benzo(b)fluoranthene	252	22.280	22.280	(0.964)	163682	20.0000	20.175 (H)
158 Benzo(k)fluoranthene	252	22.328	22.328	(0.966)	199015	20.0000	20.221
159 7,12-dimethylbenz[a]anthracen	256	22.333	22.333	(0.967)	78599	20.0000	19.605
167 Benzo(a)pyrene	252	22.975	22.975	(0.994)	161891	20.0000	20.256
169 Indeno(1,2,3-cd)pyrene	276	25.405	25.405	(1.100)	251871	20.0000	20.555
170 Dibenzo(a,h)anthracene	278	25.453	25.453	(1.102)	218967	20.0000	20.356
171 Benzo(g,h,i)perylene	276	26.009	26.009	(1.126)	216814	20.0000	20.685
\$ 172 Nitrobenzene-d5	82	5.800	5.800	(0.867)	133974	20.0000	20.394
\$ 173 2-Fluorobiphenyl	172	8.455	8.455	(0.866)	267694	20.0000	20.721
\$ 174 Terphenyl-d14	244	17.162	17.162	(0.870)	137839	20.0000	21.524
\$ 175 Phenol-d5	99	4.795	4.795	(0.933)	166608	20.0000	20.559
\$ 176 2-Fluorophenol	112	3.796	3.796	(0.739)	129417	20.0000	20.316
\$ 177 2,4,6-Tribromophenol	330	11.510	11.510	(0.880)	25318	20.0000	19.871
\$ 178 2-Chlorophenol-d4	132	4.929	4.929	(0.959)	124356	20.0000	20.574
\$ 179 1,2-Dichlorobenzene-d4	152	5.351	5.351	(1.042)	93640	20.0000	20.735

QC Flag Legend

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

669 346

Data File Name: S0825C02.D

Inj. Date and Time: 25-AUG-2000 15:49

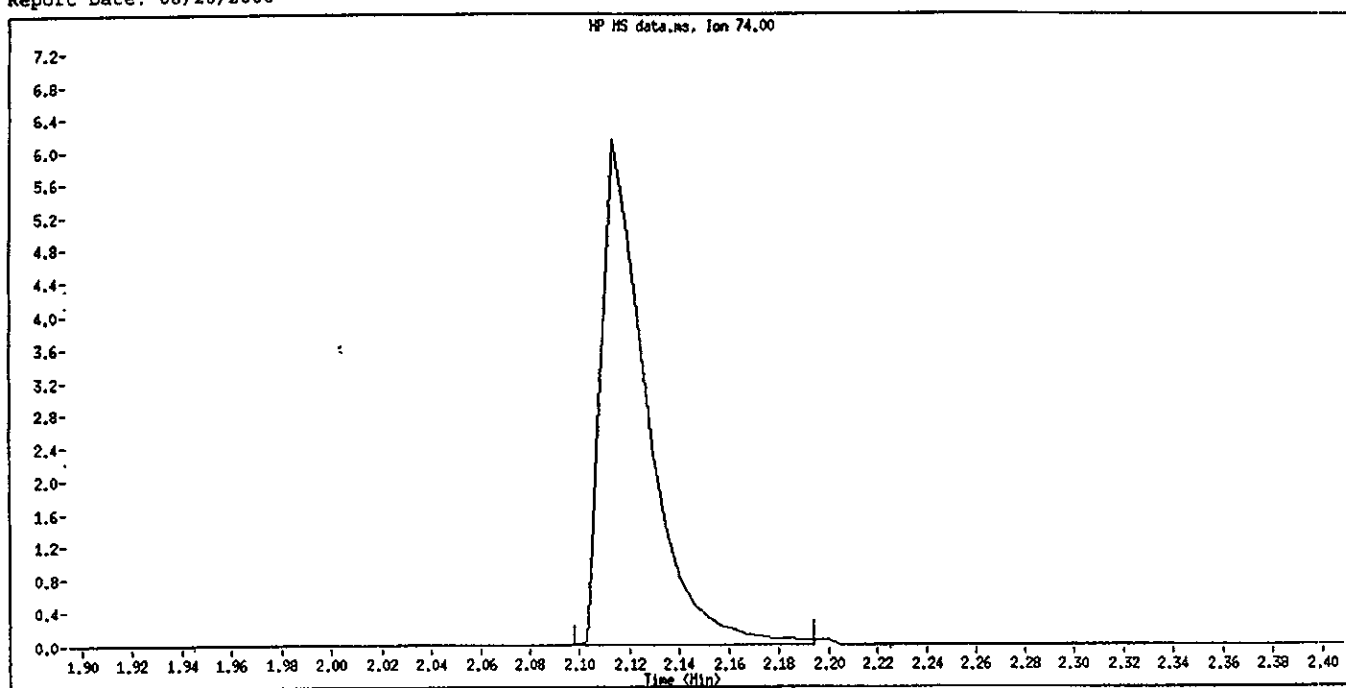
Instrument ID: 71.1

Client ID: SSTD20

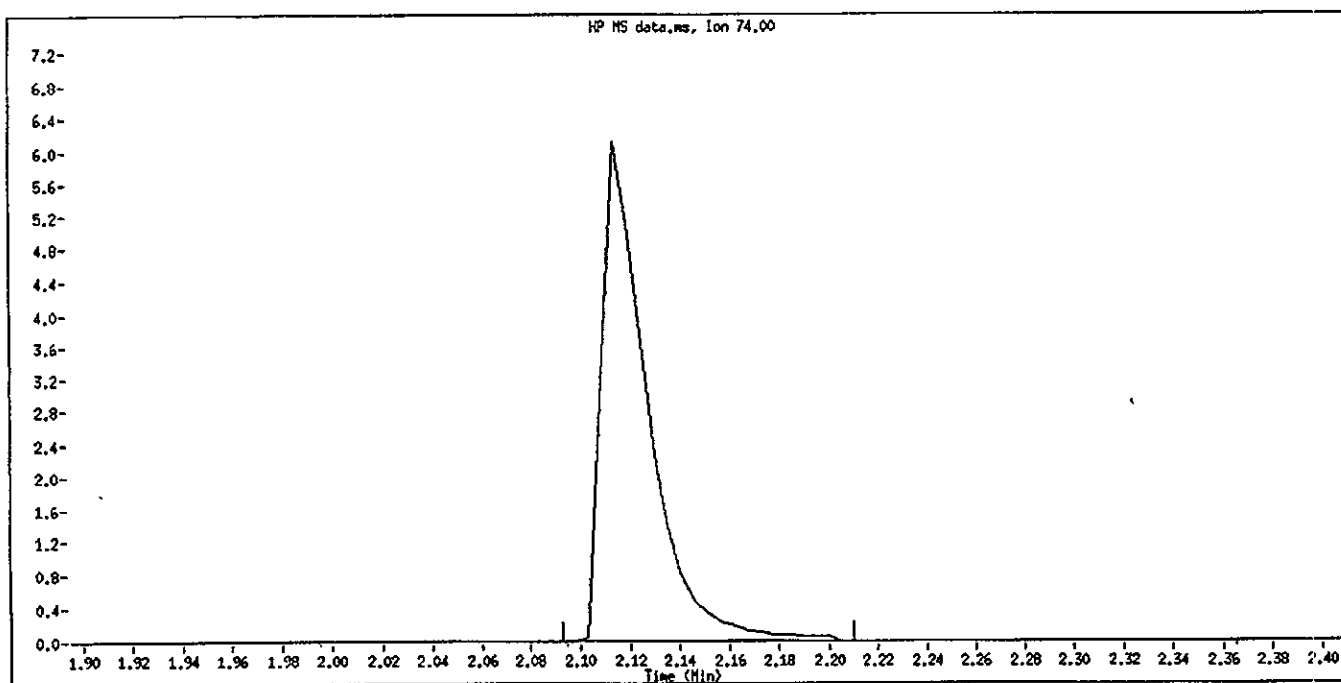
Compound Name: N-Nitrosodimethylamine

CAS #: 62-75-9

Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Inj Date and Time: 25-AUG-2000 15.49

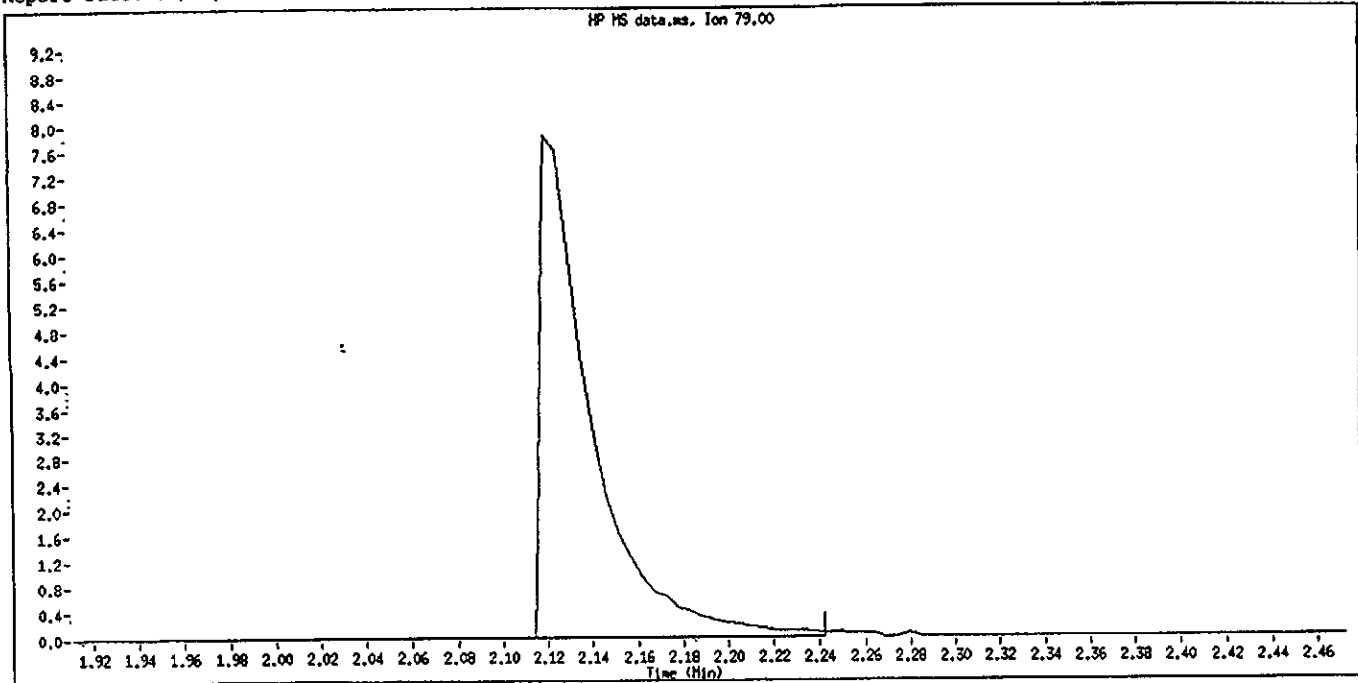
Instrument ID: 71 i

Client ID: SST020

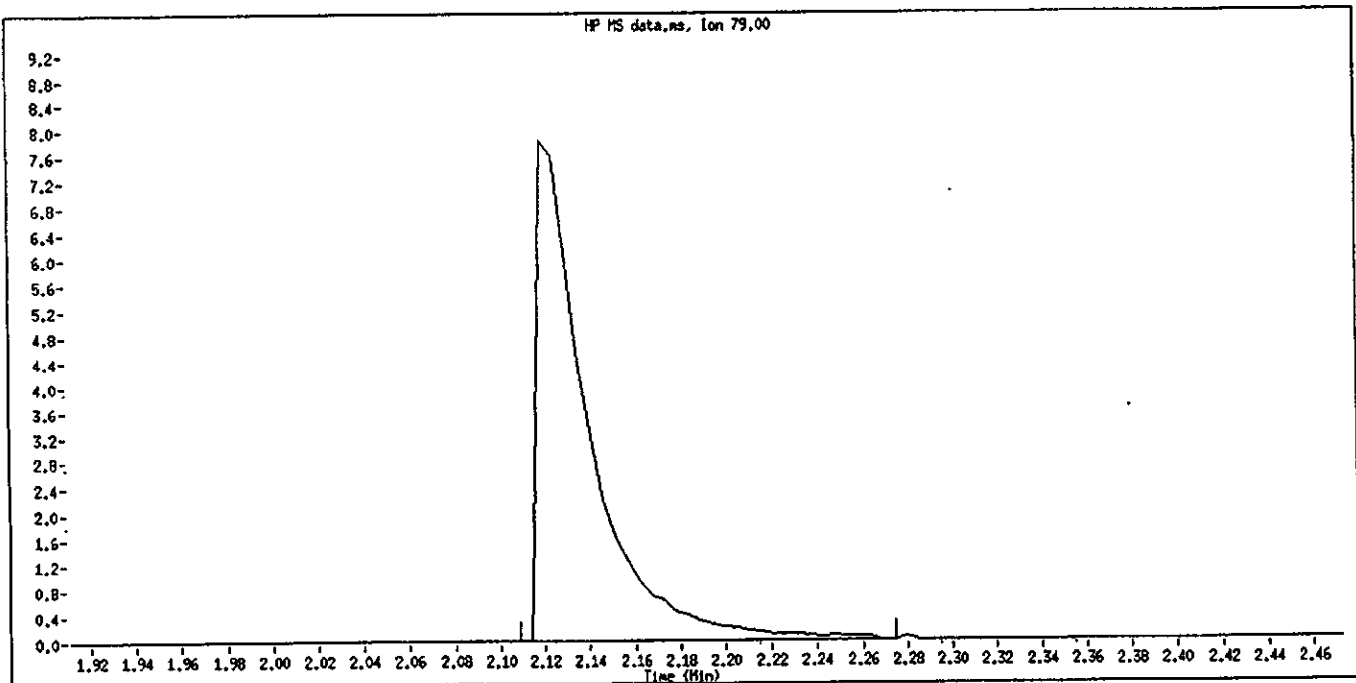
Compound Name: Pyridine

CAS #: 110-86-1

Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

669 348

Data File Name S0825C02.D

Inj Date and Time: 25-AUG-2000 15:49

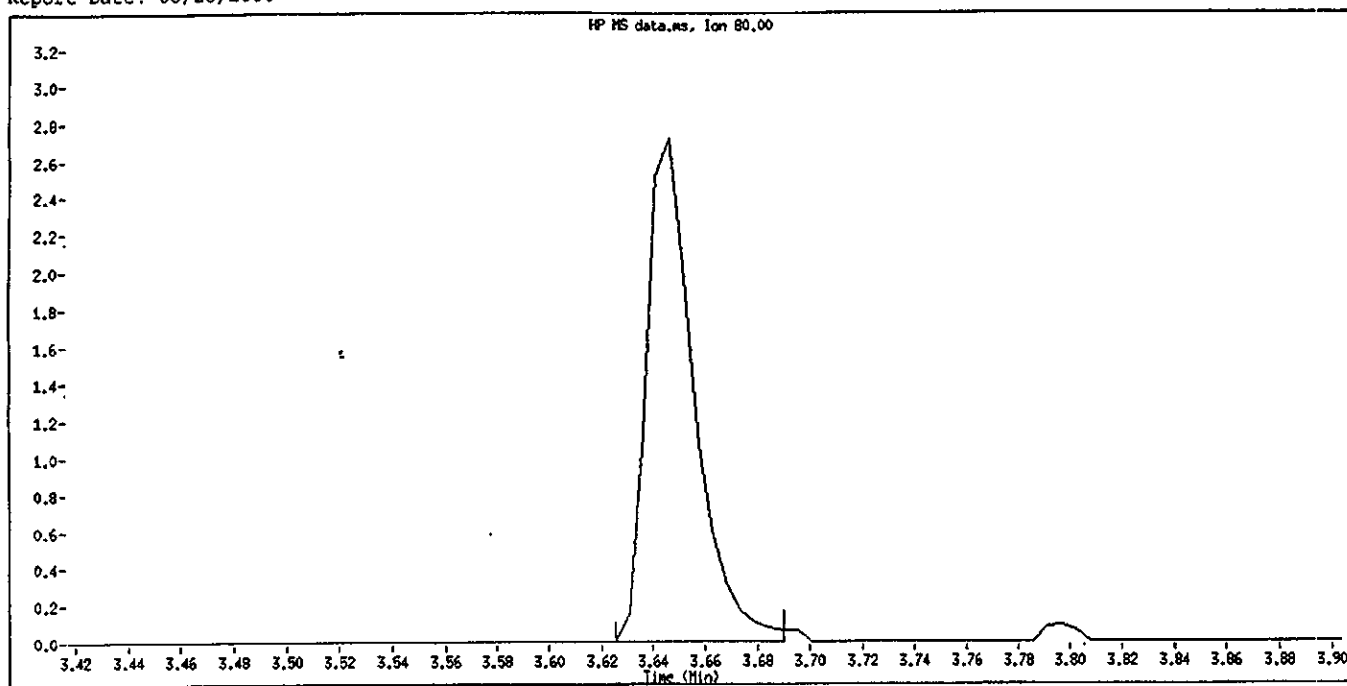
Instrument ID. 71.1

Client ID SST020

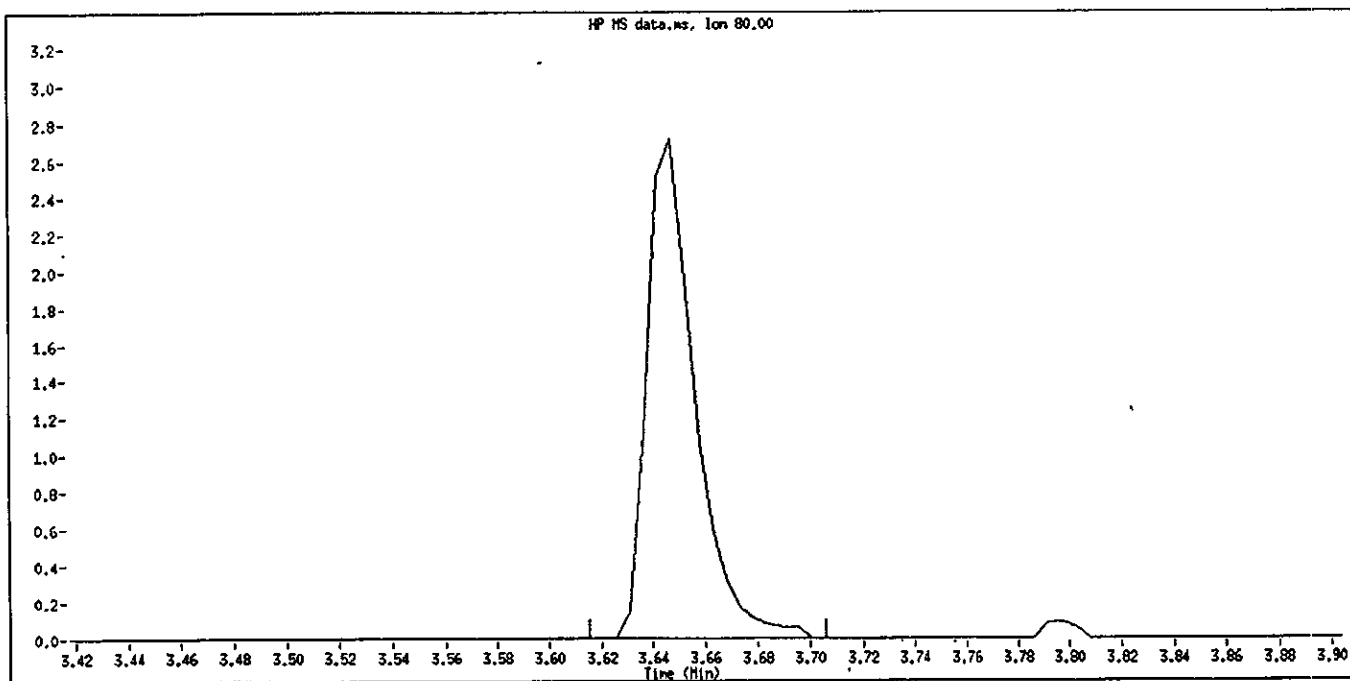
Compound Name: Methyl methanesulfonate

CAS #. 66-27-3

Report Date. 08/28/2000



Original Integration

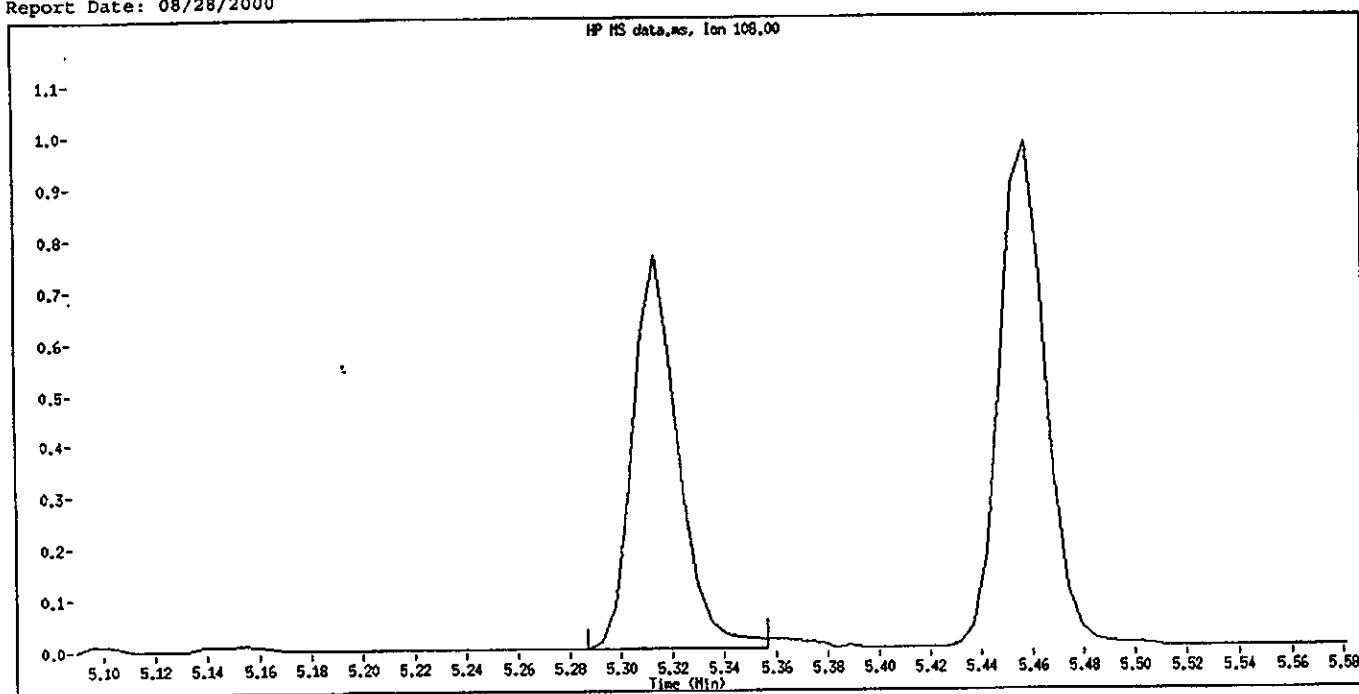


Manual Integration

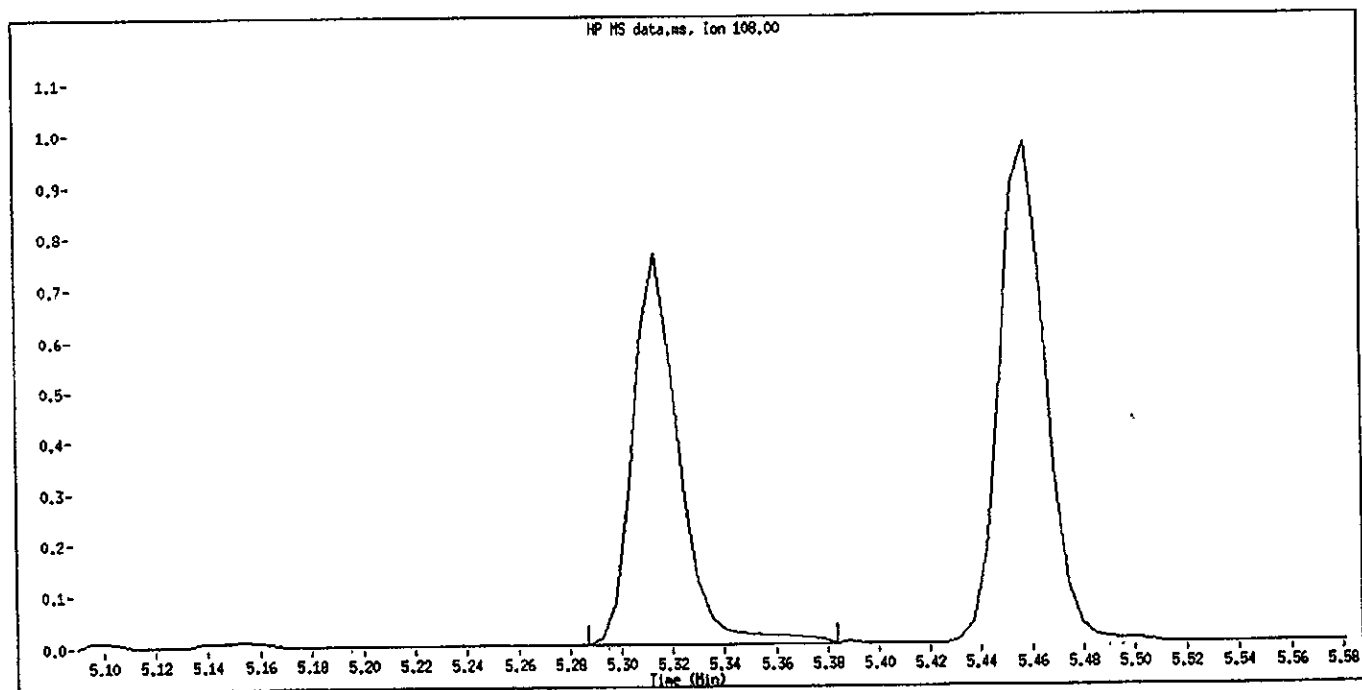
Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File Name: S0825C02.D
Inj. Date and Time: 25-AUG-2000 15:49
Instrument ID: 71.1
Client ID: SST20
Compound Name: Benzyl Alcohol
CAS #: 100-51-6
Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 350

Data File Name: S0825C02.D

Inj. Date and Time: 25-AUG-2000 15:49

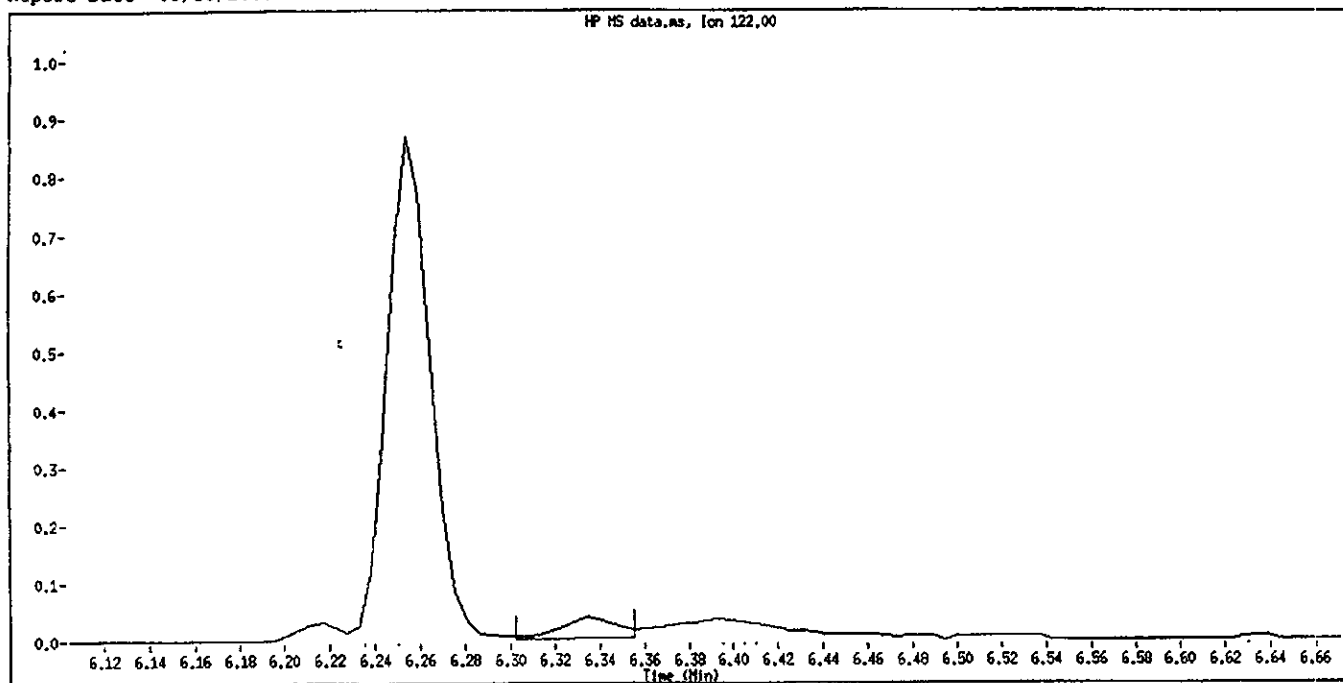
Instrument ID: 71.1

Client ID: SSTD20

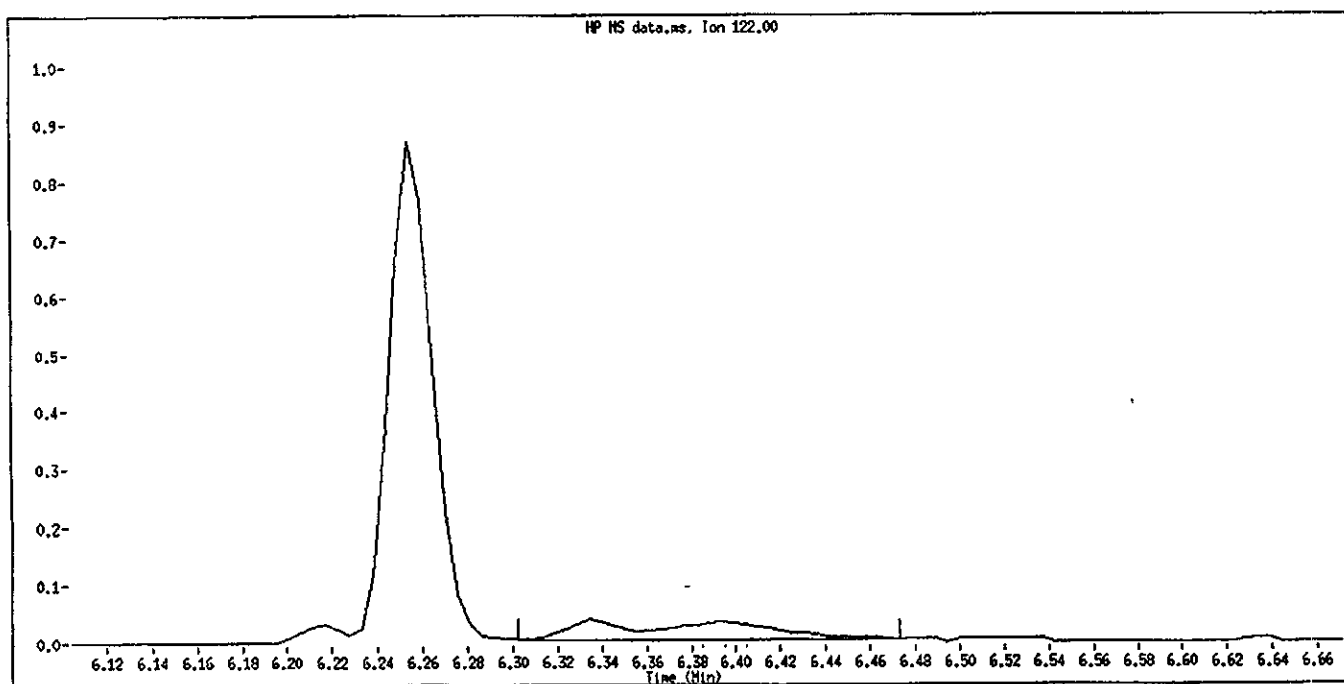
Compound Name: Benzoic Acid

CAS #: 65-85-0

Report Date: 08/28/2000



Original Integration



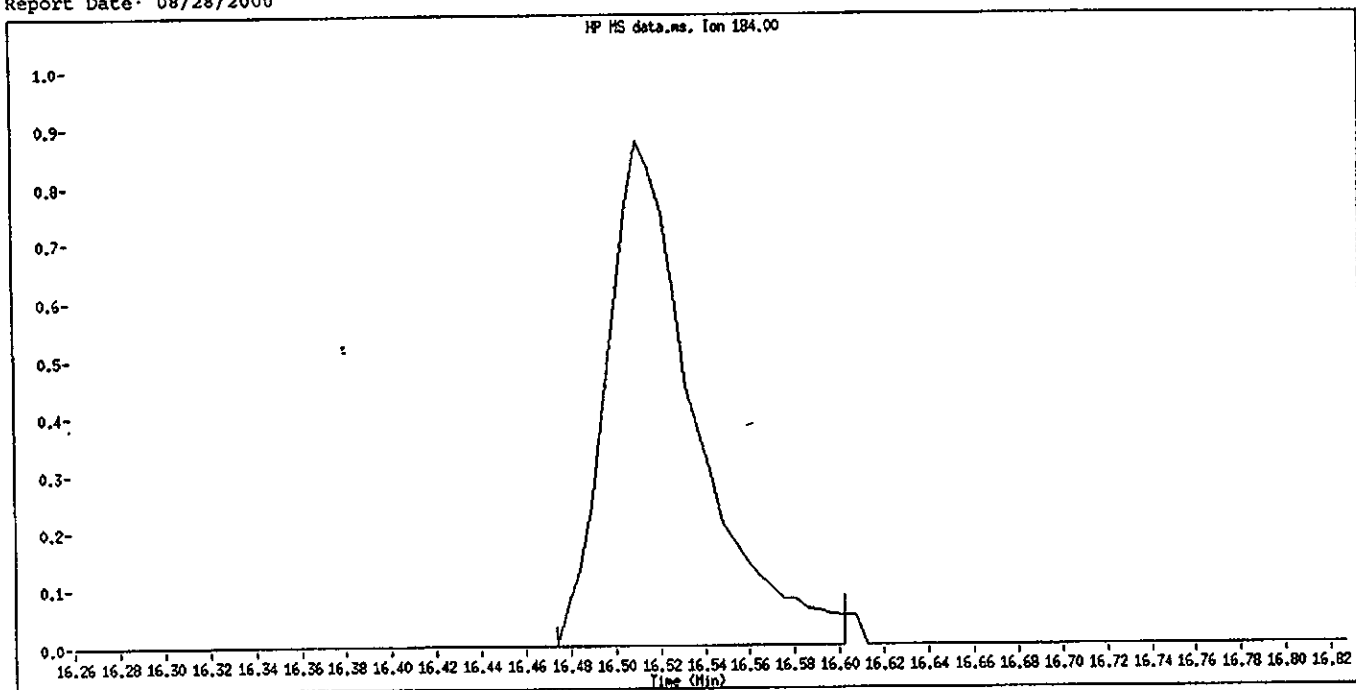
Manual Integration

Manually Integrated By: BachaS

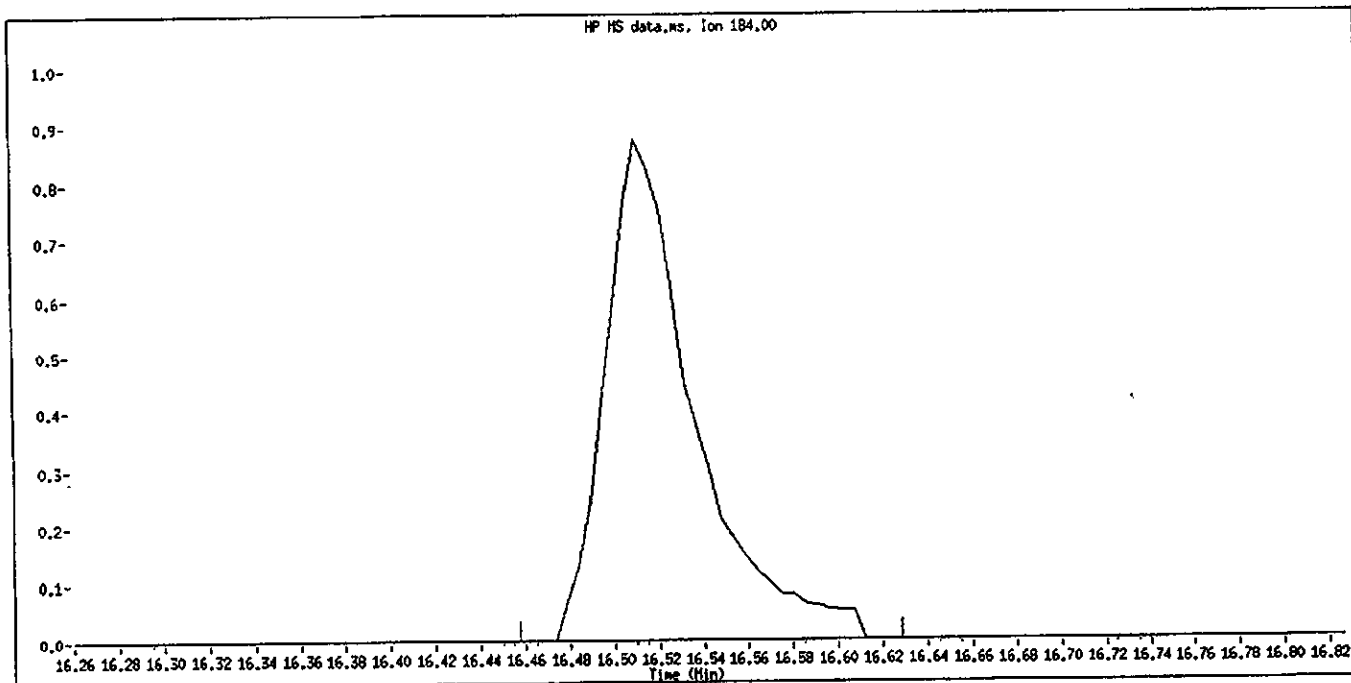
Manual Integration Reason: Poor Chromatography

Data File Name: S0825C02.D
Inj. Date and Time: 25-AUG-2000 15:49
Instrument ID: 71.1
Client ID: SSTD20
Compound Name: Benzidine
CAS #: 92-87-5
Report Date: 08/28/2000

669 351



Original Integration



Manual Integration

Manually Integrated By: Bachas
Manual Integration Reason: Poor Chromatography

669 352

Data File Name: S0825C02.D

Inj. Date and Time: 25-AUG-2000 15:49

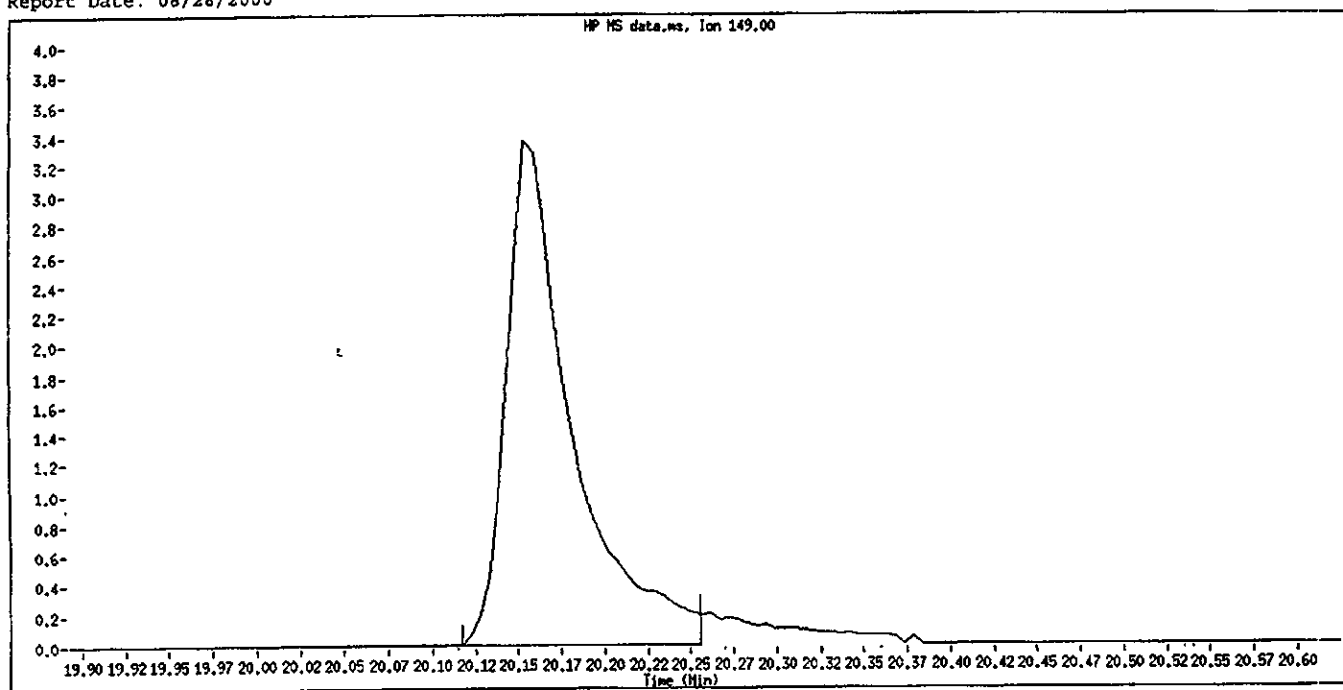
Instrument ID: 71 1

Client ID: SSTD20

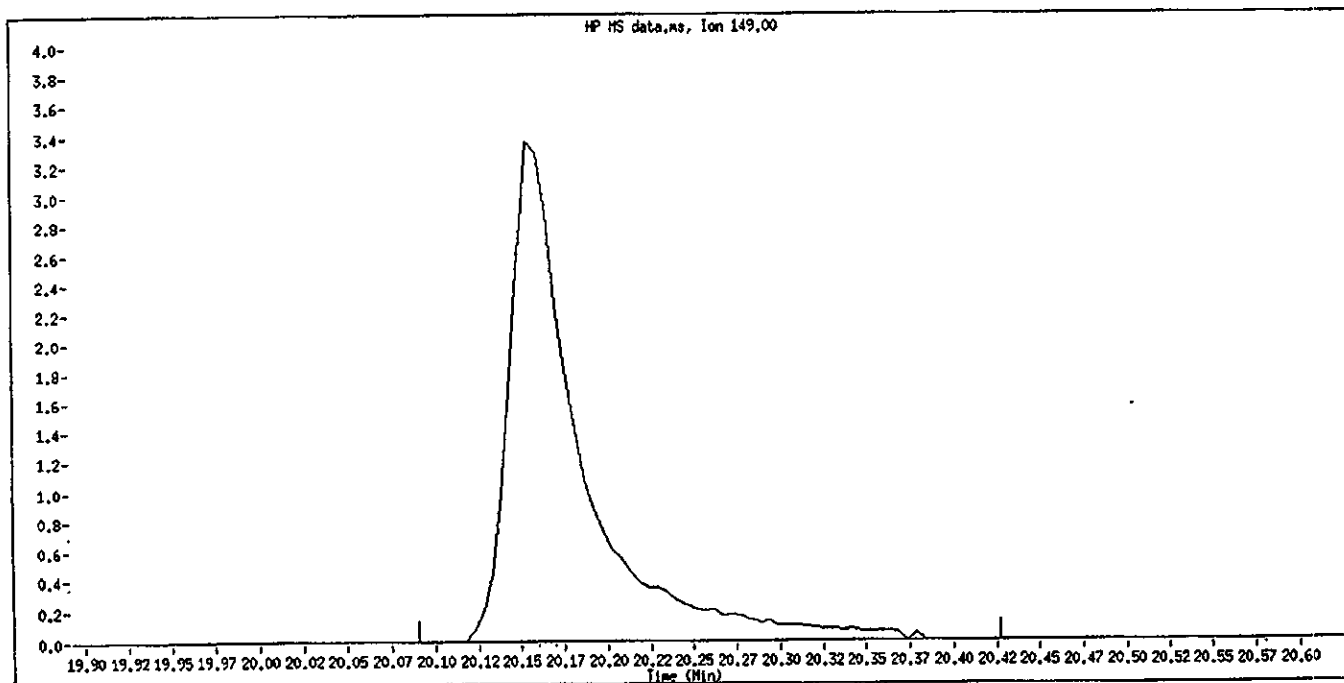
Compound Name: bis(2-ethylhexyl)Phthalate

CAS #: 117-81-7

Report Date: 08/28/2000



Original Integration



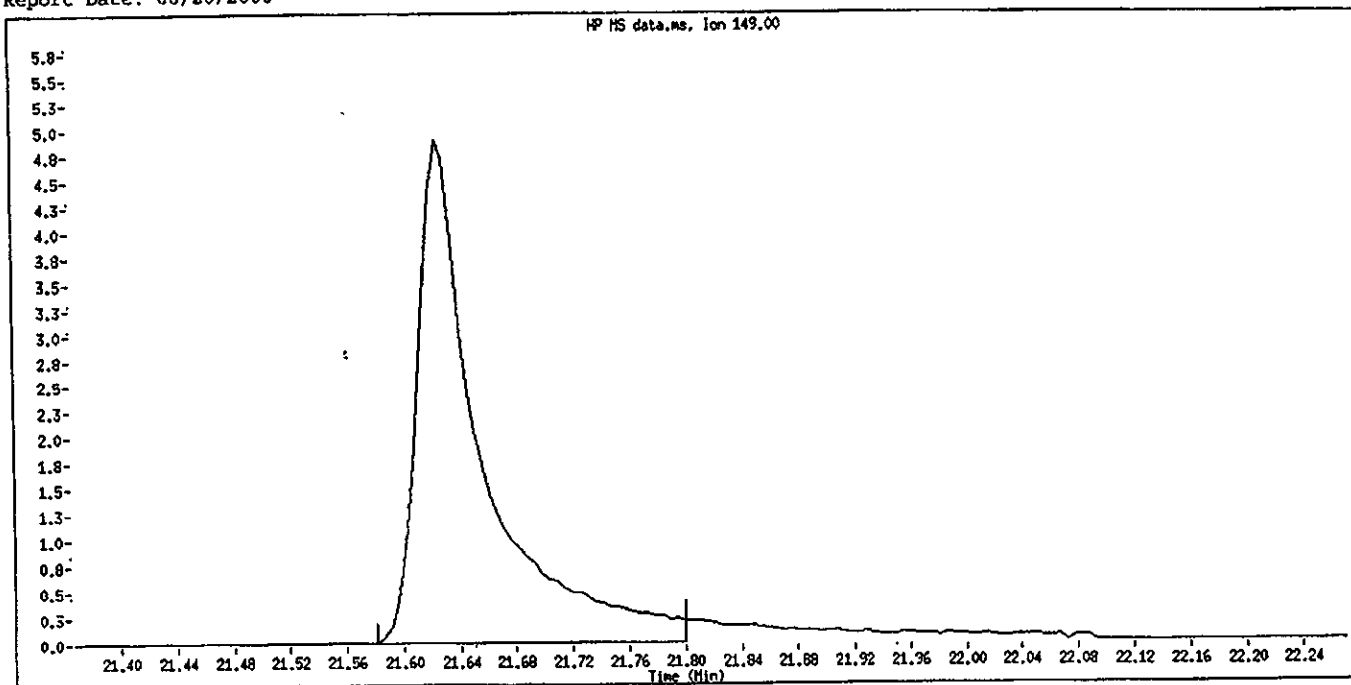
Manual Integration

Manually Integrated By: BachaS

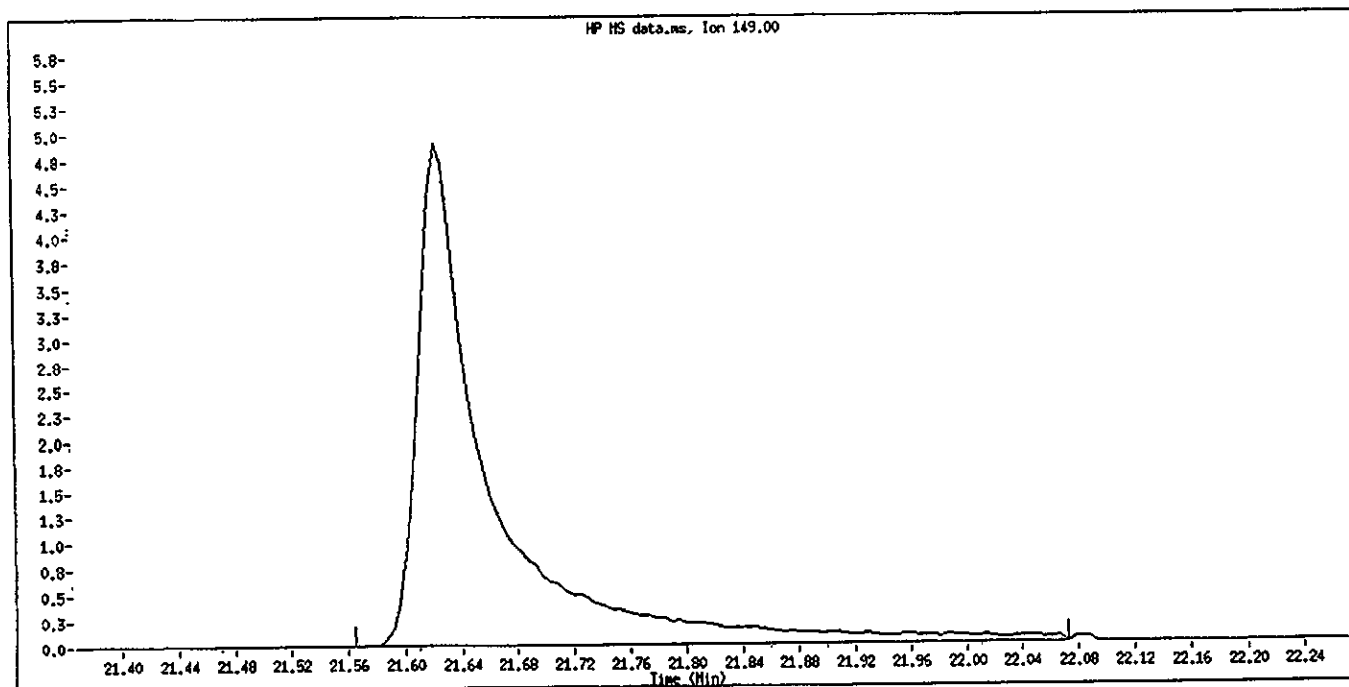
Manual Integration Reason: Poor Chromatography

Data File Name: S0825C02.D
Inj. Date and Time: 25-AUG-2000 15:49
Instrument ID: 71.1
Client ID: SSTB20
Compound Name: Di-n-octylphthalate
CAS #: 117-84-0
Report Date: 08/28/2000

669 353



Original Integration

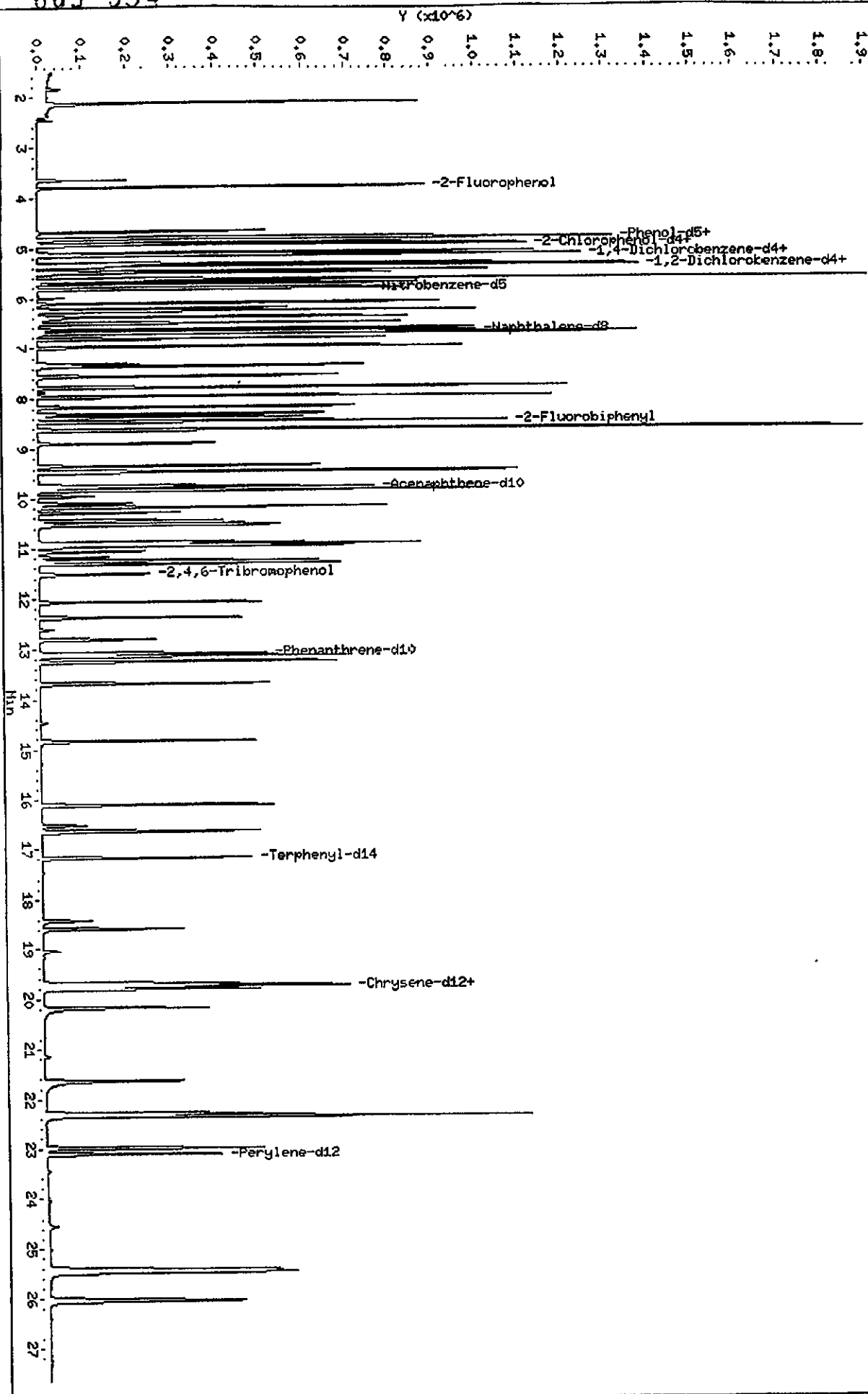


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File: \\QPI1P002\chem\71.1\5082500.b\5082500C1.D
Date: 25-AUG-2000 15:15
Client ID: SSTJ50
Sample Info: sst50(25 ug/ml) 194-183-14 8270/c1p
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



STL - Pittsburgh

Semivolatiles REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082500.b\S0825CC1.D
Lab Smp Id: sstd50 Client Smp ID: SST50
Inj Date : 25-AUG-2000 15:15
Operator : 045183 Inst ID: 71.i
Smp Info : sstd50(25 ug/ml) 194-183-14 8270/clp
Misc Info : sstd50,s082500.b,8270clp.m,1-82701.sub,1,2
Comment :
Method : \\QPITPA02\D\chem\71.i\s082500.b\8270clp.m
Meth Date : 28-Aug-2000 08:44 bachas Quant Type: ISTD
Cal Date : 25-AUG-2000 15:15 Cal File: S0825CC1.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

158/281

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	****	**	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	5.138	5.138	(1.000)	193238	40.0000	
* 2 Naphthalene-d8	136	6.693	6.693	(1.000)	709751	40.0000	
* 3 Acenaphthene-d10	164	9.765	9.765	(1.000)	350059	40.0000	
* 4 Phenanthrene-d10	188	13.087	13.087	(1.000)	450344	40.0000	
* 5 Chrysene-d12	240	19.738	19.738	(1.000)	356403	40.0000	
* 6 Perylene-d12	264	23.109	23.109	(1.000)	378937	40.0000	
13 N-Nitrosodimethylamine	74	2.115	2.115	(0.412)	197378	50.0000	50.000
10 Pyridine	79	2.115	2.115	(0.412)	310340	50.0000	50.000 (M)
19 Methyl methanesulfonate	80	3.643	3.643	(0.709)	88514	50.0000	50.000
22 Aniline	93	4.829	4.829	(0.940)	432698	50.0000	50.000
23 Phenol	94	4.812	4.812	(0.937)	441383	50.0000	50.000
24 bis(2-Chloroethyl)ether	93	4.903	4.903	(0.954)	337610	50.0000	50.000
25 2-Chlorophenol	128	4.946	4.946	(0.963)	328075	50.0000	50.000
27 1,3-Dichlorobenzene	146	5.101	5.101	(0.993)	360860	50.0000	50.000
28 1,4-Dichlorobenzene	146	5.154	5.154	(1.003)	361168	50.0000	50.000
29 1,2-Dichlorobenzene	146	5.368	5.368	(1.045)	335617	50.0000	50.000
30 Benzyl Alcohol	108	5.315	5.315	(1.034)	228535	50.0000	50.000 (M)
31 2-Methylphenol	108	5.459	5.459	(1.062)	297024	50.0000	50.000
32 2,2'-oxybis(1-Chloropropane)	45	5.496	5.496	(1.070)	403243	50.0000	50.000
33 N-Nitroso-di-n-propylamine	70	5.657	5.657	(1.101)	215724	50.0000	50.000
35 4-Methylphenol	108	5.619	5.619	(1.094)	306490	50.0000	50.000
38 Hexachloroethane	117	5.715	5.715	(1.112)	132579	50.0000	50.000
39 Nitrobenzene	77	5.822	5.822	(0.870)	335892	50.0000	50.000
44 Isophorone	82	6.105	6.105	(0.912)	553599	50.0000	50.000
45 2-Nitrophenol	139	6.217	6.217	(0.929)	165341	50.0000	50.000
46 2,4-Dimethylphenol	107	6.255	6.255	(0.935)	294780	50.0000	50.000

659 356

Data File: \\QPITPA02\D\chem\71.i\s082500.b\S0825CC1.D
Report Date: 28-Aug-2000 08:44

Page 2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.388	6.388	(0.955)	364003	50.0000	50.000
51 2,4-Dichlorophenol	162	6.511	6.511	(0.973)	254328	50.0000	50.000
52 Benzoic Acid	122	6.378	6.378	(0.953)	52236	50.0000	50.000 (H)
53 1,2,4-Trichlorobenzene	180	6.634	6.634	(0.991)	286084	50.0000	50.000
54 Naphthalene	128	6.720	6.720	(1.004)	948416	50.0000	50.000
55 4-Chloroaniline	127	6.821	6.821	(1.019)	359743	50.0000	50.000
59 Hexachlorobutadiene	225	6.981	6.981	(1.043)	174648	50.0000	50.000
62 4-Chloro-3-Methylphenol	107	7.548	7.548	(1.128)	232557	50.0000	50.000
65 2-Methylnaphthalene	142	7.772	7.772	(1.161)	597336	50.0000	50.000
66 1-Methylnaphthalene	142	7.959	7.959	(1.189)	557640	50.0000	50.000
67 Hexachlorocyclopentadiene	237	8.167	8.167	(0.836)	188701	50.0000	50.000
69 2,4,6-Trichlorophenol	196	8.306	8.306	(0.851)	163908	50.0000	50.000
70 2,4,5-Trichlorophenol	196	8.376	8.376	(0.858)	169922	50.0000	50.000 (M)
73 2-Chloronaphthalene	162	8.632	8.632	(0.884)	521202	50.0000	50.000
77 2-Nitroaniline	65	8.889	8.889	(0.910)	124298	50.0000	50.000
80 Dimethylphthalate	163	9.337	9.337	(0.956)	502791	50.0000	50.000
82 2,6-Dinitrotoluene	165	9.465	9.465	(0.969)	104639	50.0000	50.000
83 Acenaphthylene	152	9.444	9.444	(0.967)	790025	50.0000	50.000
85 3-Nitroaniline	138	9.727	9.727	(0.996)	118733	50.0000	50.000
86 Acenaphthene	153	9.834	9.834	(1.007)	502805	50.0000	50.000
87 2,4-Dinitrophenol	184	9.946	9.946	(1.019)	39260	50.0000	50.000
89 4-Nitrophenol	109	10.091	10.091	(1.033)	45947	50.0000	50.000
90 Dibenzofuran	168	10.165	10.165	(1.041)	685914	50.0000	50.000
91 2,4-Dinitrotoluene	165	10.283	10.283	(1.053)	121621	50.0000	50.000
95 2,3,5,6-Tetrachlorophenol	232	10.443	10.443	(1.069)	114726	50.0000	50.000
92 2,3,4,6-Tetrachlorophenol	232	10.539	10.539	(1.079)	119701	50.0000	50.000 (M)
96 2-Naphthylamine	143	10.513	10.513	(1.077)	348192	50.0000	50.000
97 Diethylphthalate	149	10.881	10.881	(1.114)	442030	50.0000	50.000
98 Fluorene	166	10.924	10.924	(1.119)	526235	50.0000	50.000
99 4-Chlorophenyl-phenylether	204	10.961	10.961	(1.123)	256536	50.0000	50.000
100 4-Nitroaniline	138	11.068	11.068	(1.133)	97860	50.0000	50.000
102 4,6-Dinitro-2-methylphenol	198	11.175	11.175	(0.854)	52502	50.0000	50.000
103 N-Nitrosodiphenylamine (1)	169	11.244	11.244	(0.859)	334332	50.0000	50.000
104 1,2-Diphenylhydrazine	77	11.314	11.314	(0.864)	510598	50.0000	50.000
112 4-Bromophenyl-phenylether	248	12.078	12.078	(0.923)	132540	50.0000	50.000
113 Hexachlorobenzene	284	12.382	12.382	(0.946)	136172	50.0000	50.000
117 Pentachlorophenol	266	12.815	12.815	(0.979)	69568	50.0000	50.000 (M)
122 Phenanthrene	178	13.141	13.141	(1.004)	598926	50.0000	50.000
123 Anthracene	178	13.248	13.248	(1.012)	609922	50.0000	50.000
126 Carbazole	167	13.686	13.686	(1.046)	499919	50.0000	50.000
130 Di-n-Butylphthalate	149	14.834	14.834	(1.133)	526484	50.0000	50.000
135 Fluoranthene	202	16.090	16.090	(1.229)	491168	50.0000	50.000
136 Benzidine	184	16.512	16.512	(0.837)	125612	50.0000	50.000 (M)
137 Pyrene	202	16.635	16.635	(0.843)	500707	50.0000	50.000
144 Butylbenzylphthalate	149	18.585	18.585	(0.942)	169103	50.0000	50.000
149 3,3'-Dichlorobenzidine	252	19.749	19.749	(1.001)	174300	50.0000	50.000
150 Benzo(a)Anthracene	228	19.701	19.701	(0.998)	439726	50.0000	50.000

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----		-----	-----
151 Chrysene	228	19.803	19.803	(1.003)	430789		50.0000	50.000
153 bis(2-ethylhexyl)Phthalate	149	20.160	20.160	(1.021)	295911		50.0000	50.000 (M)
155 Di-n-octylphthalate	149	21.630	21.630	(0.936)	535294		50.0000	50.000 (M)
157 Benzo(b)fluoranthene	252	22.287	22.287	(0.964)	512929		50.0000	50.000 (H)
158 Benzo(k)fluoranthene	252	22.345	22.345	(0.967)	620779		50.0000	50.000
159 7,12-dimethylbenz[a]anthracen	256	22.345	22.345	(0.967)	260762		50.0000	50.000
167 Benzo(a)pyrene	252	22.986	22.986	(0.995)	503207		50.0000	50.000
169 Indeno(1,2,3-cd)pyrene	276	25.422	25.422	(1.100)	759867		50.0000	50.000
170 Dibenz(a,h)anthracene	278	25.471	25.471	(1.102)	673832		50.0000	50.000
171 Benzo(g,h,i)perylene	276	26.031	26.031	(1.126)	645624		50.0000	50.000
\$ 172 Nitrobenzene-d5	82	5.801	5.801	(0.867)	322883		50.0000	50.000
\$ 173 2-Fluorobiphenyl	172	8.461	8.461	(0.867)	620015		50.0000	50.000
\$ 174 Terphenyl-d14	244	17.163	17.163	(0.870)	366380		50.0000	50.000
\$ 175 Phenol-d5	99	4.802	4.802	(0.935)	399516		50.0000	50.000
\$ 176 2-Fluorophenol	112	3.792	3.792	(0.738)	317957		50.0000	50.000
\$ 177 2,4,6-Tribromophenol	330	11.512	11.512	(0.880)	62428		50.0000	50.000
\$ 178 2-Chlorophenol-d4	132	4.930	4.930	(0.959)	297750		50.0000	50.000
\$ 179 1,2-Dichlorobenzene-d4	152	5.352	5.352	(1.042)	220619		50.0000	50.000

QC Flag Legend

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

669 358

Data File Name: S0825CC1.D

Inj Date and Time: 25-AUG-2000 15:15

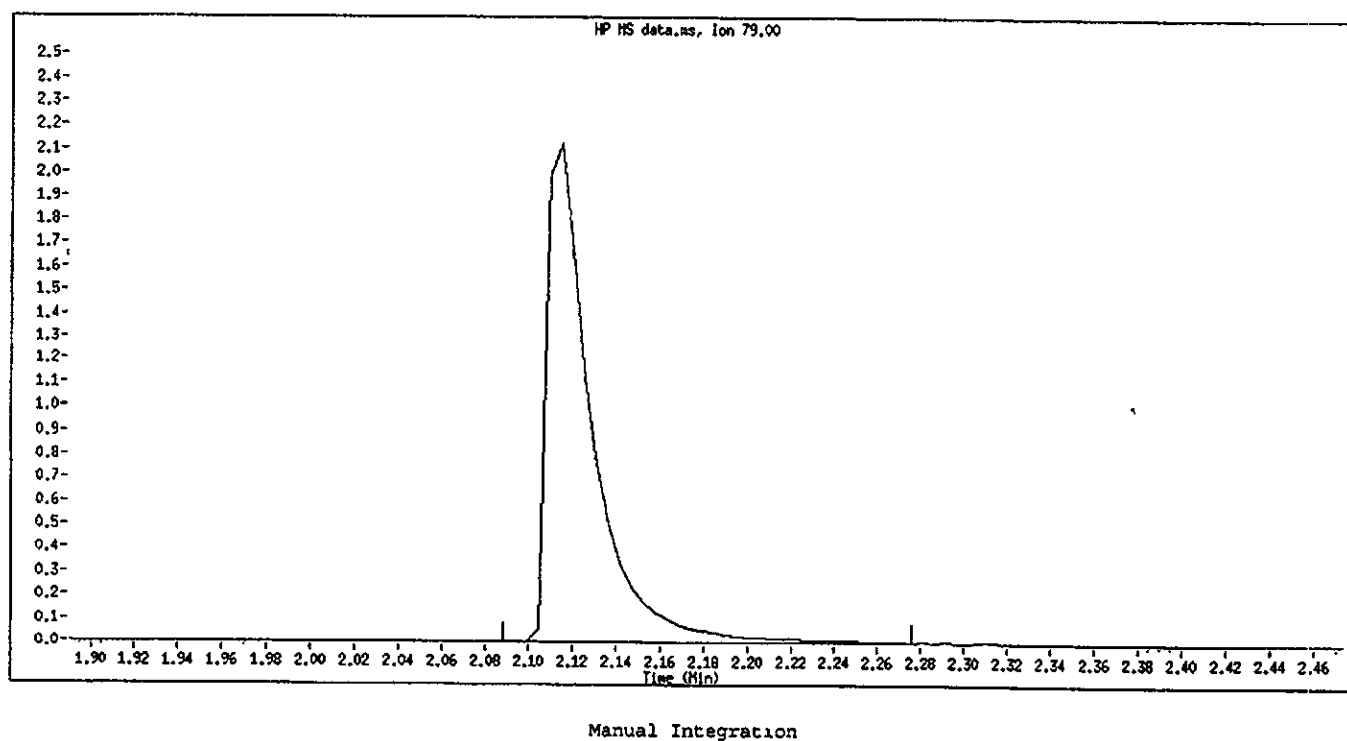
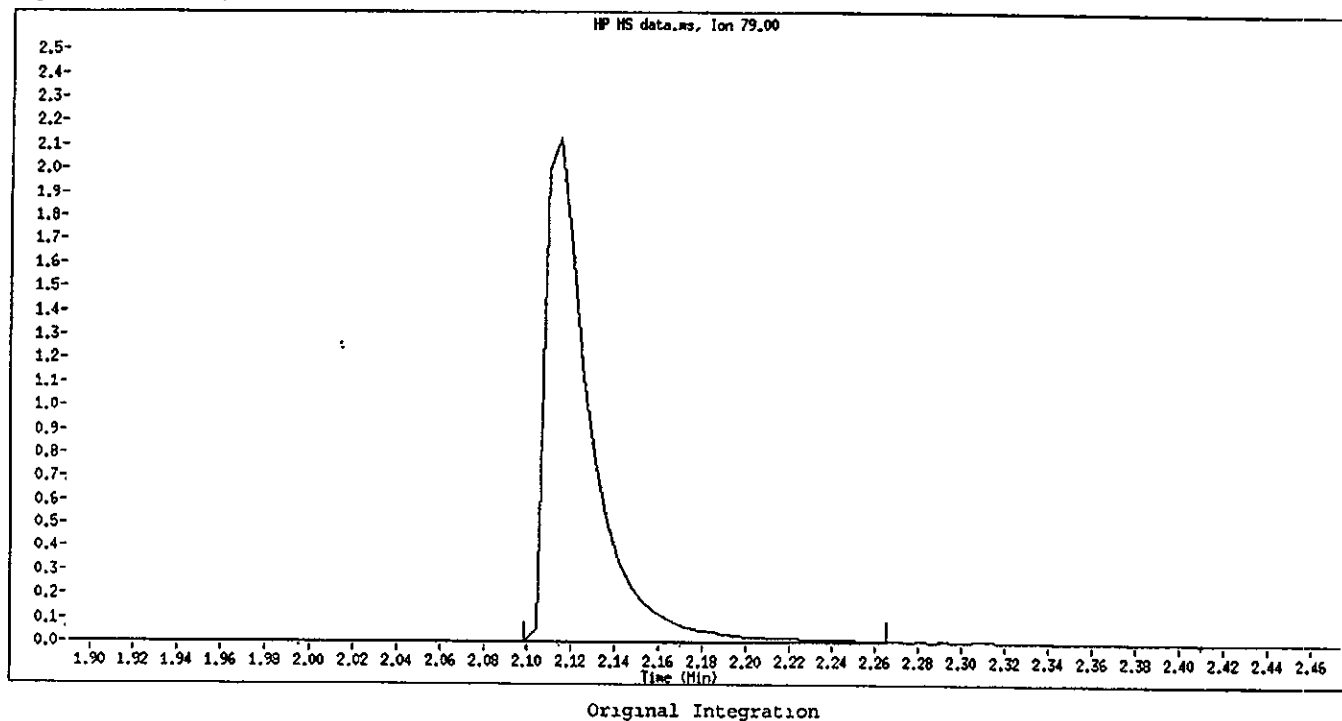
Instrument ID: 71.1

Client ID: SSTDSU

Compound Name: Pyridine

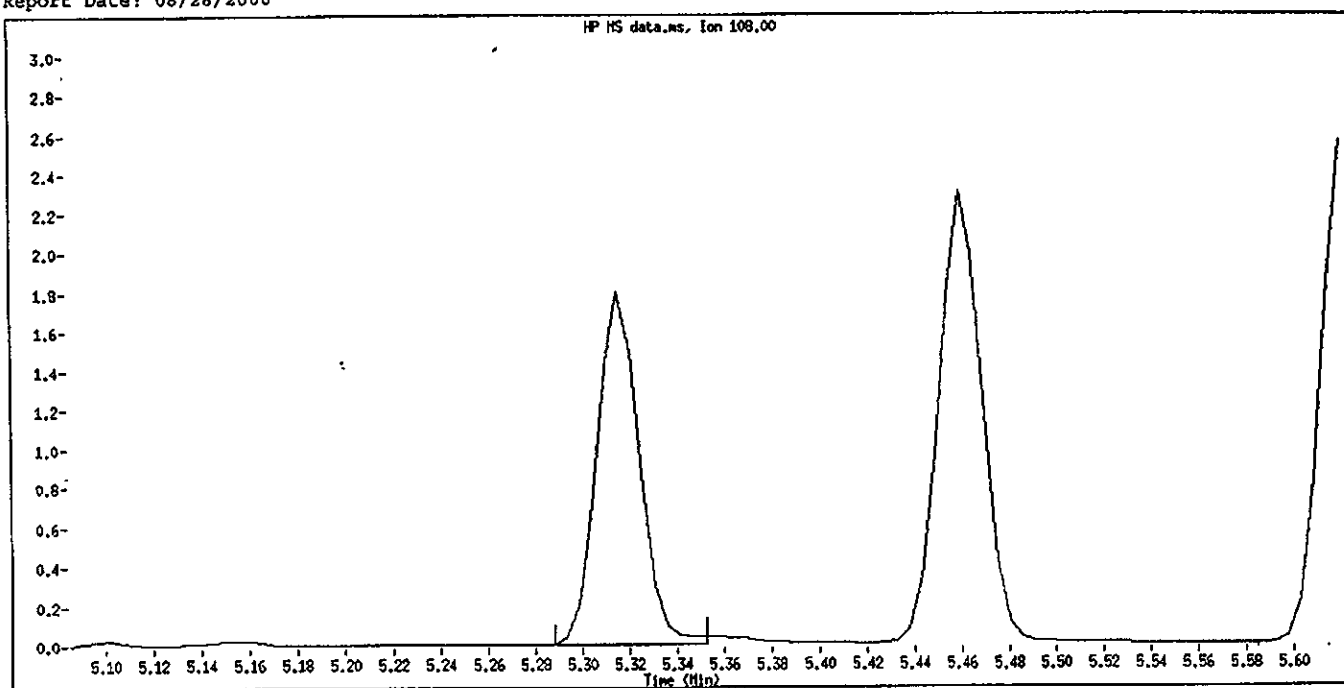
CAS #: 110-86-1

Report Date: 08/28/2000

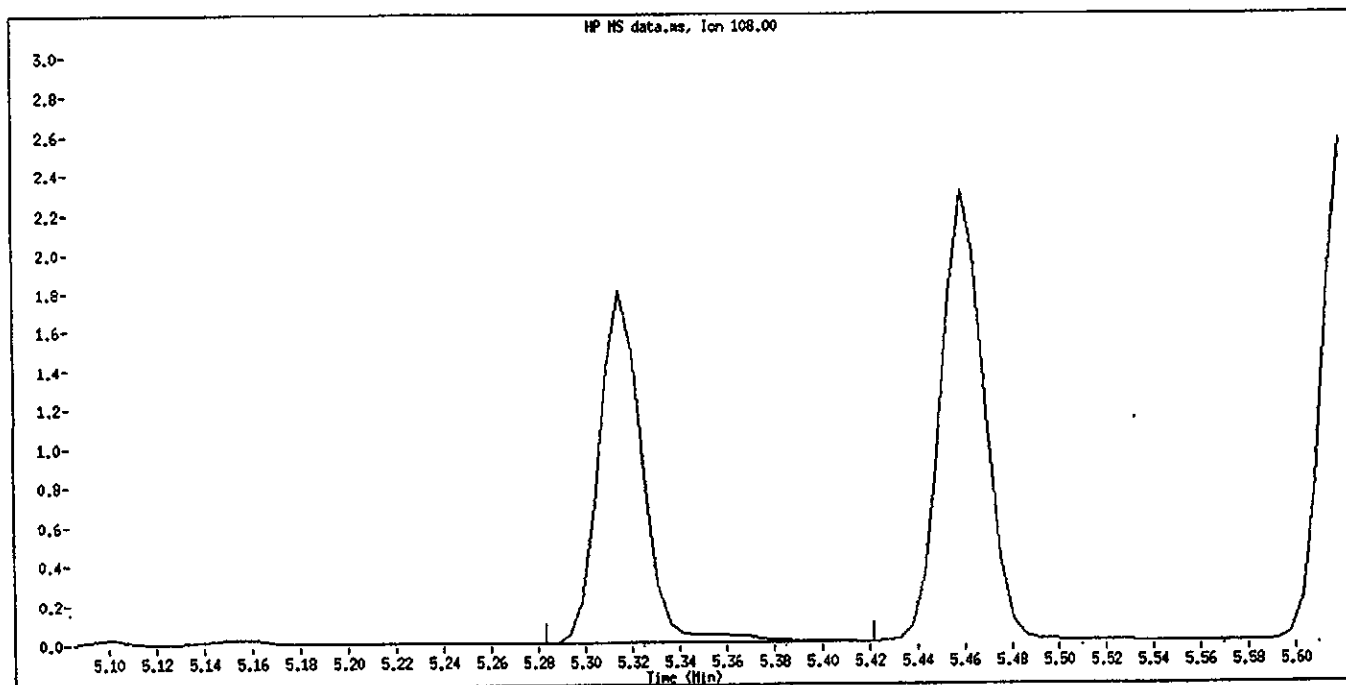


Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

669 360

Data File Name: S0825CC1.D

Inj. Date and Time: 25-AUG-2000 15:15

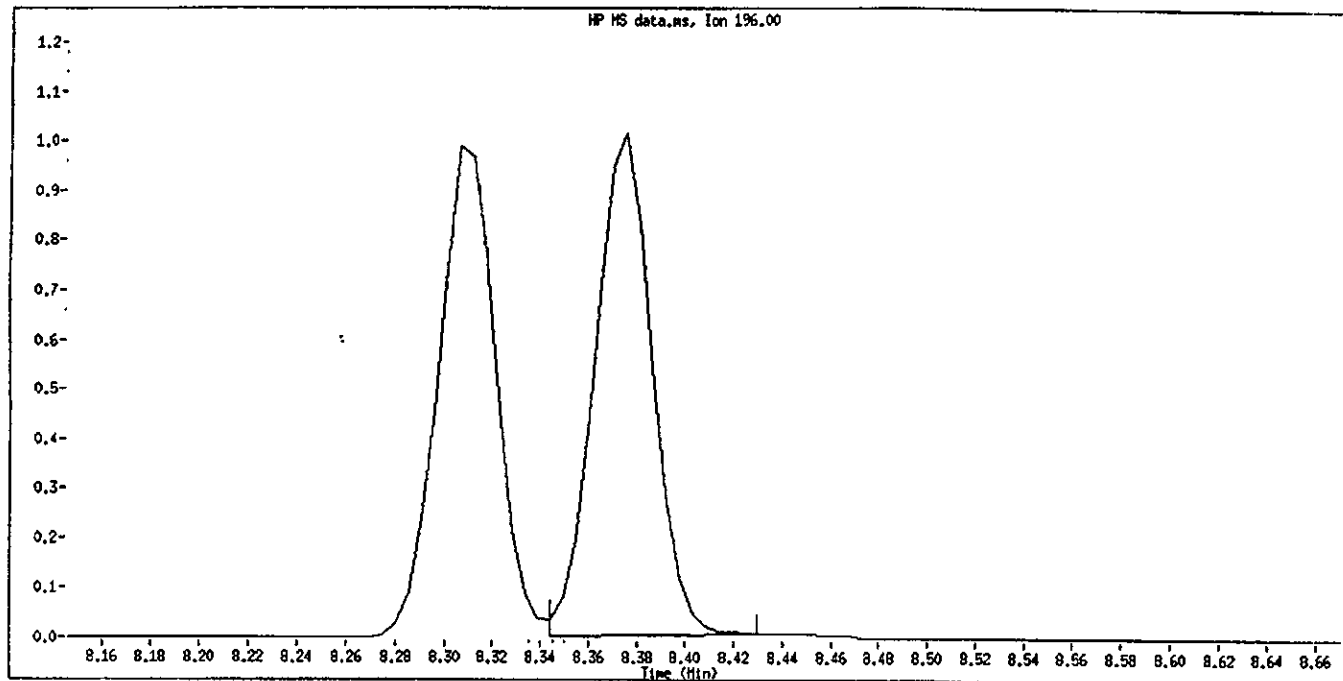
Instrument ID: 71.1

Client ID: SST50

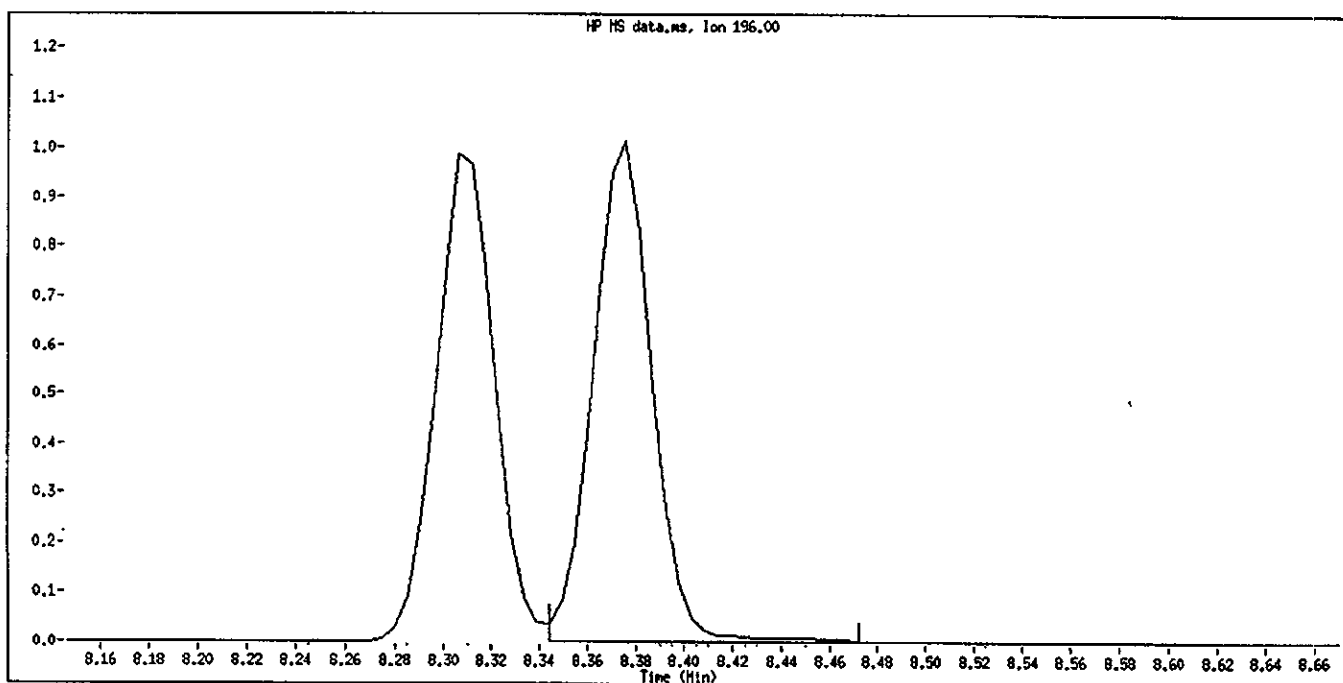
Compound Name: 2,4,5-Trichlorophenol

CAS #: 95-95-4

Report Date: 08/28/2000



Original Integration

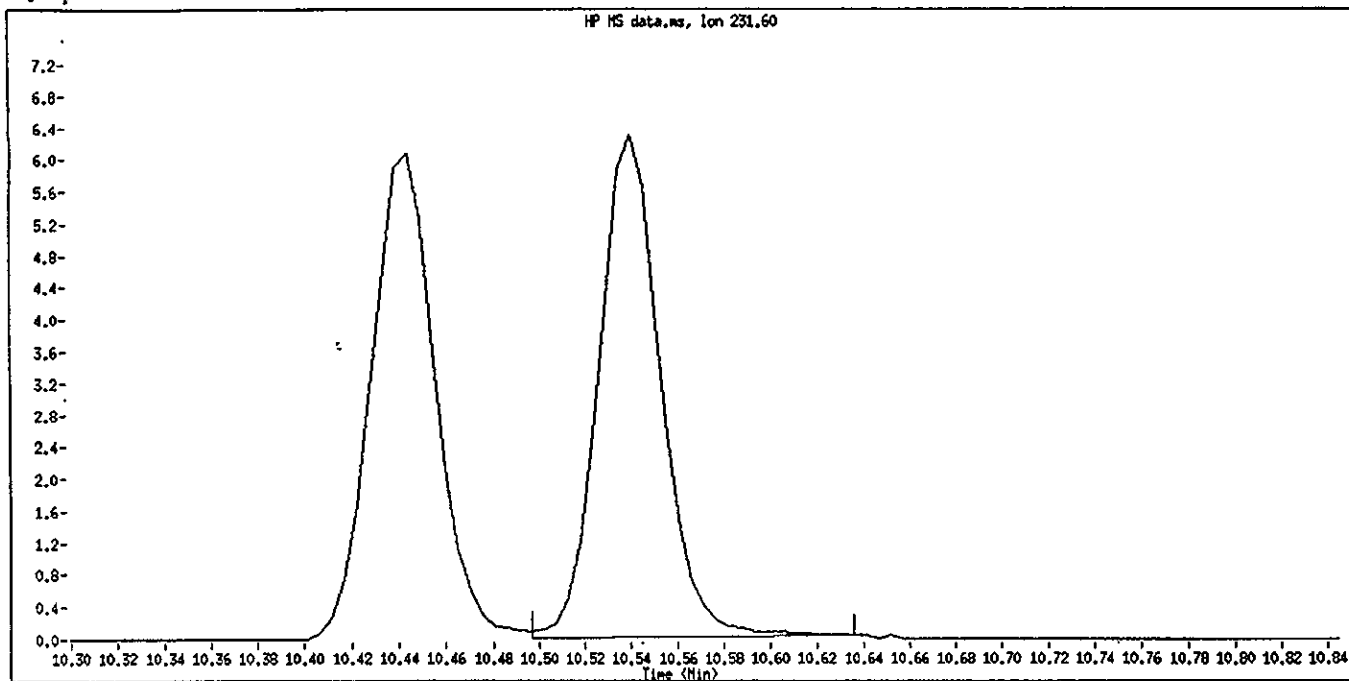


Manual Integration

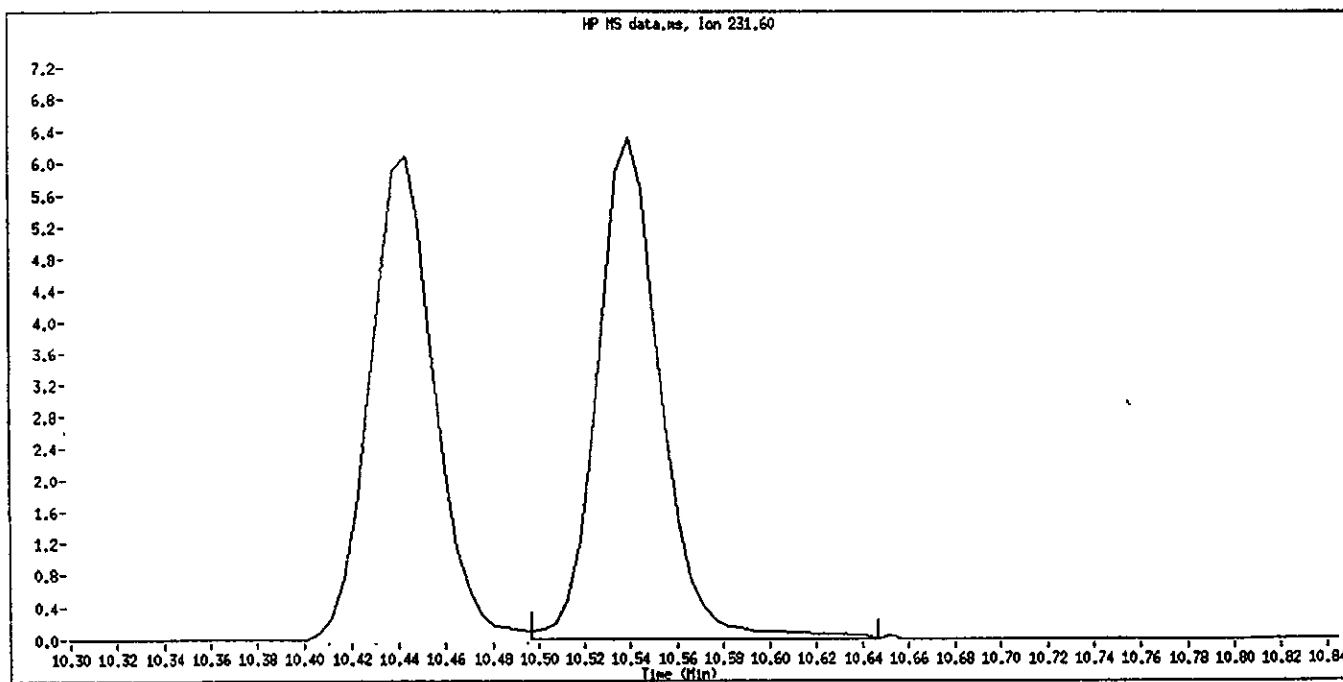
Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File Name S0825CC1.D
Inj Date and Time: 25-AUG-2000 15:15
Instrument ID: 71.1
Client ID: SST050
Compound Name: 2,3,4,6-Tetrachlorophenol
CAS #: 58-90-2
Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 362

Data File Name S0825CC1.D

Inj. Date and Time: 25-AUG-2000 15:15

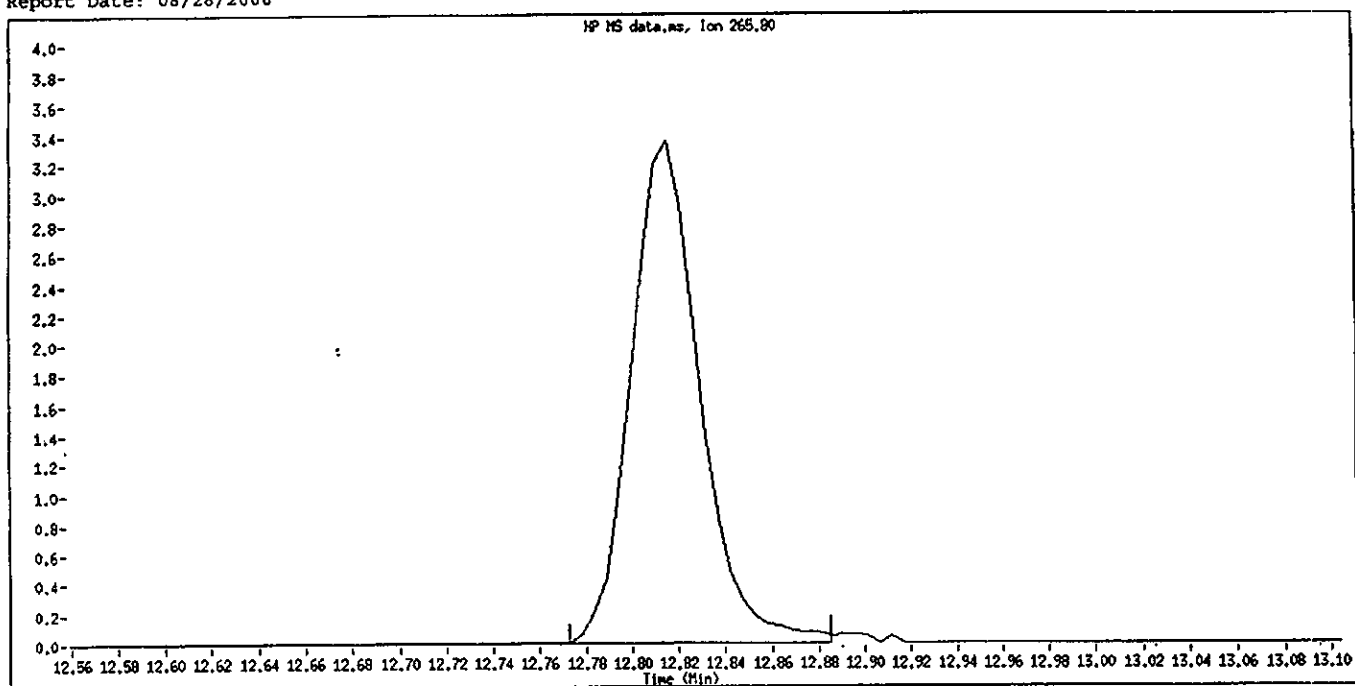
Instrument ID: 71 1

Client ID: SST050

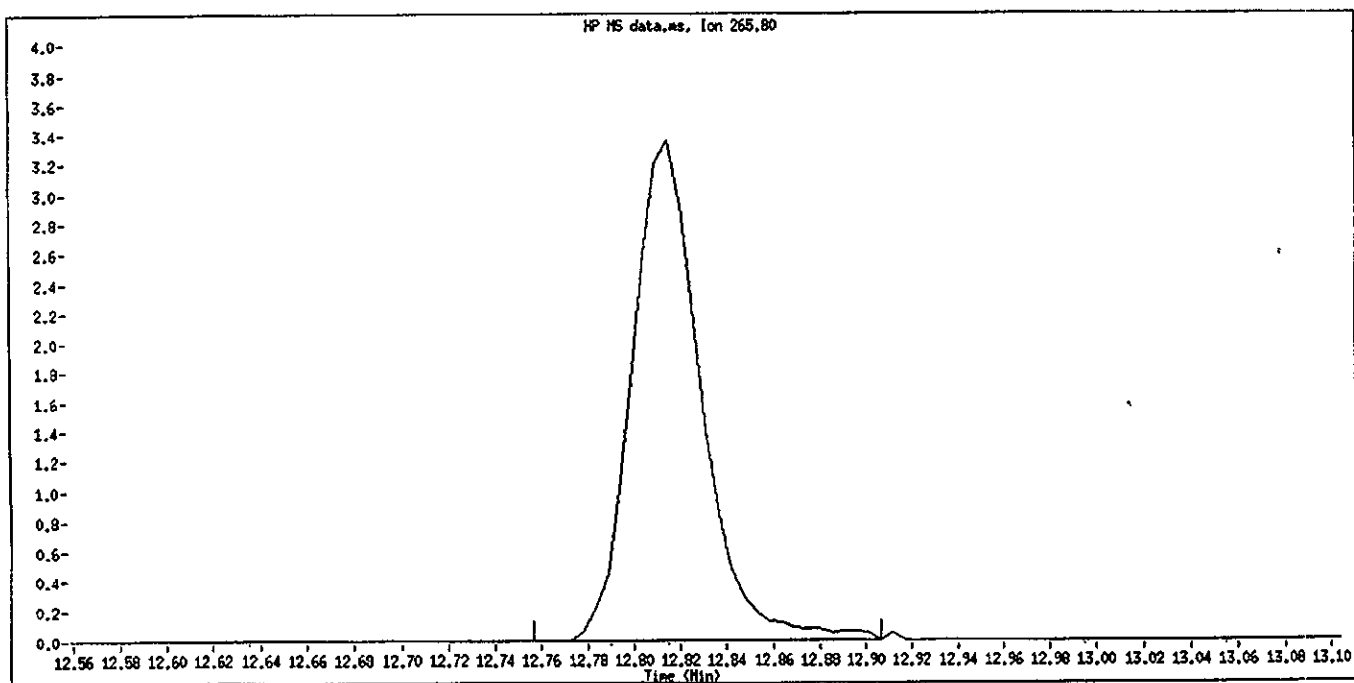
Compound Name: Pentachlorophenol

CAS #: 87-86-5

Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File Name: S0825CC1.D

Inj. Date and Time: 25-AUG-2000 15:15

Instrument ID: 71.1

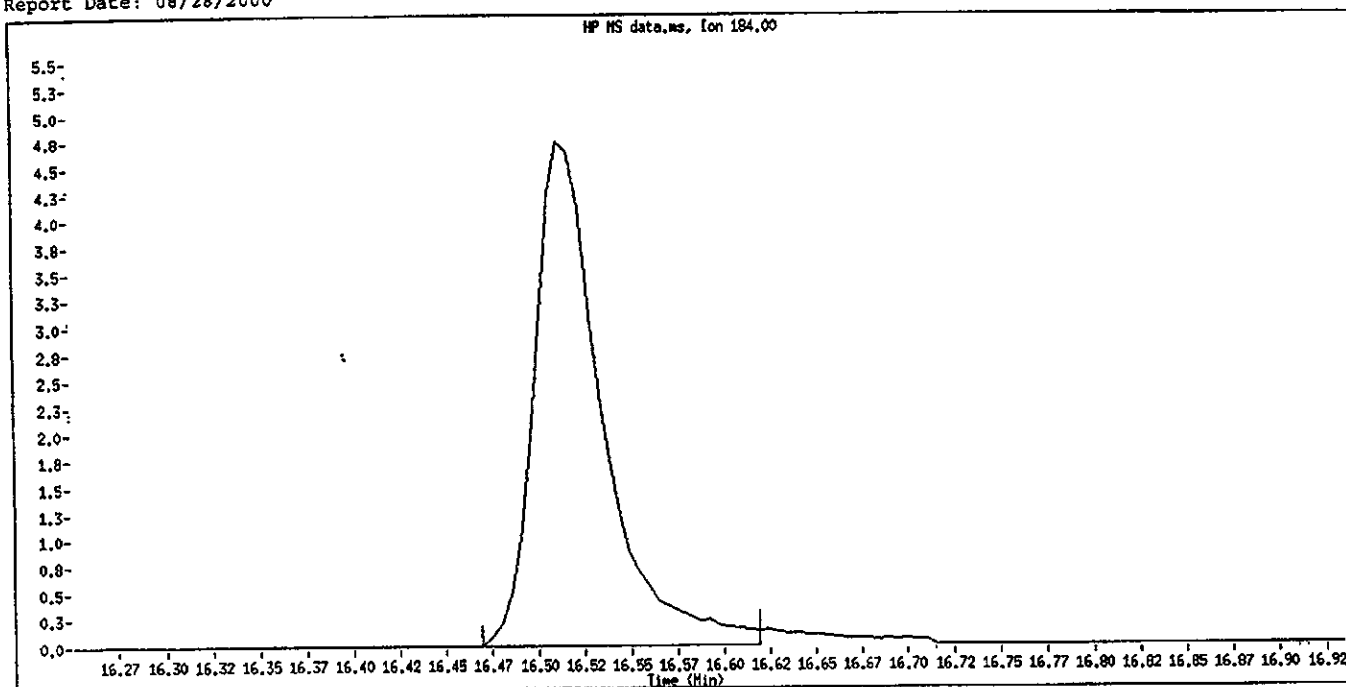
Client ID: SST050

Compound Name: Benzidine

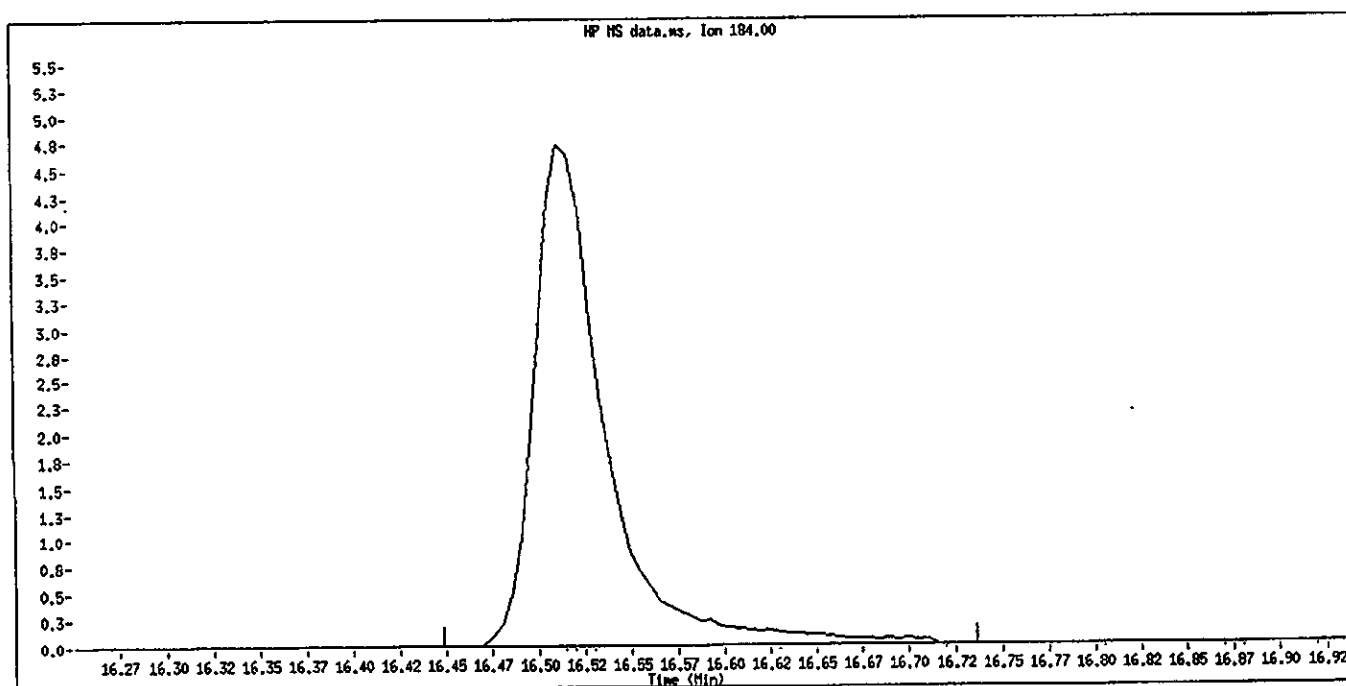
CAS #: 92-87-5

Report Date: 08/28/2000

669 363



Original Integration



Manual Integration

Manually Integrated By BachaS

Manual Integration Reason: Poor Chromatography

669 364

Data File Name S0825CC1.D

Inj. Date and Time 25-AUG-2000 15:15

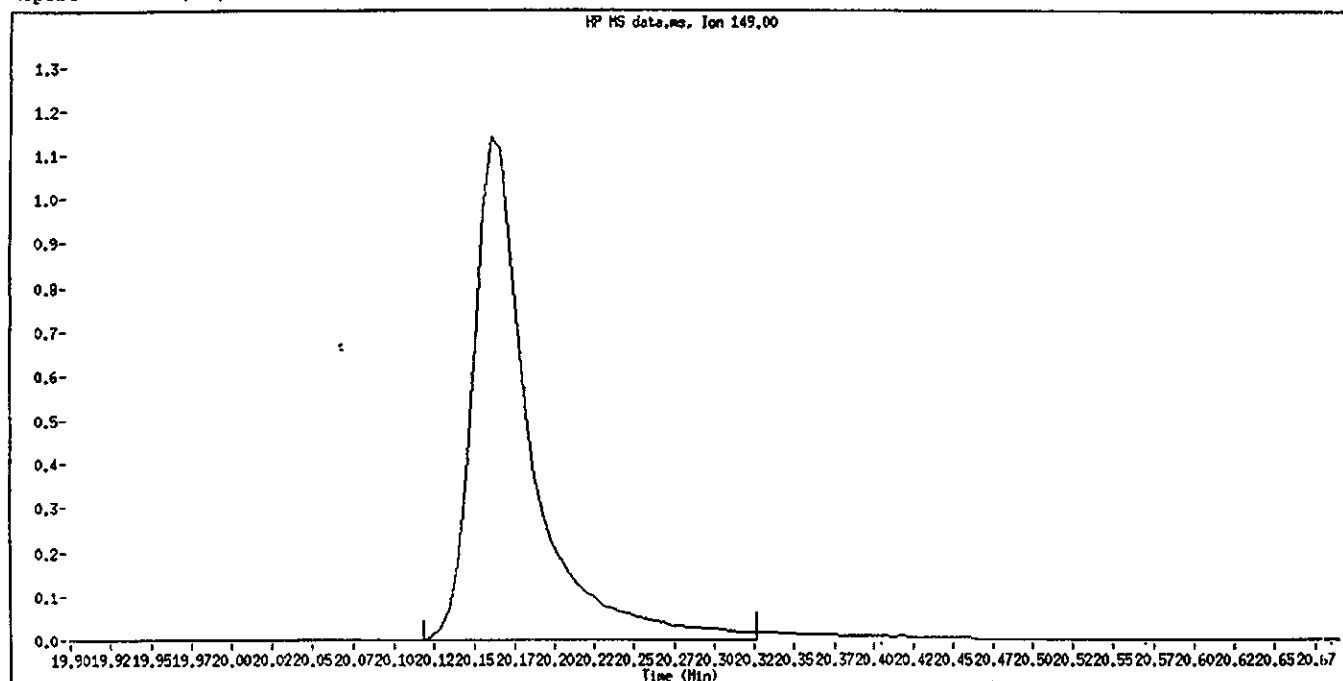
Instrument ID 71

Client ID: SSTDS0

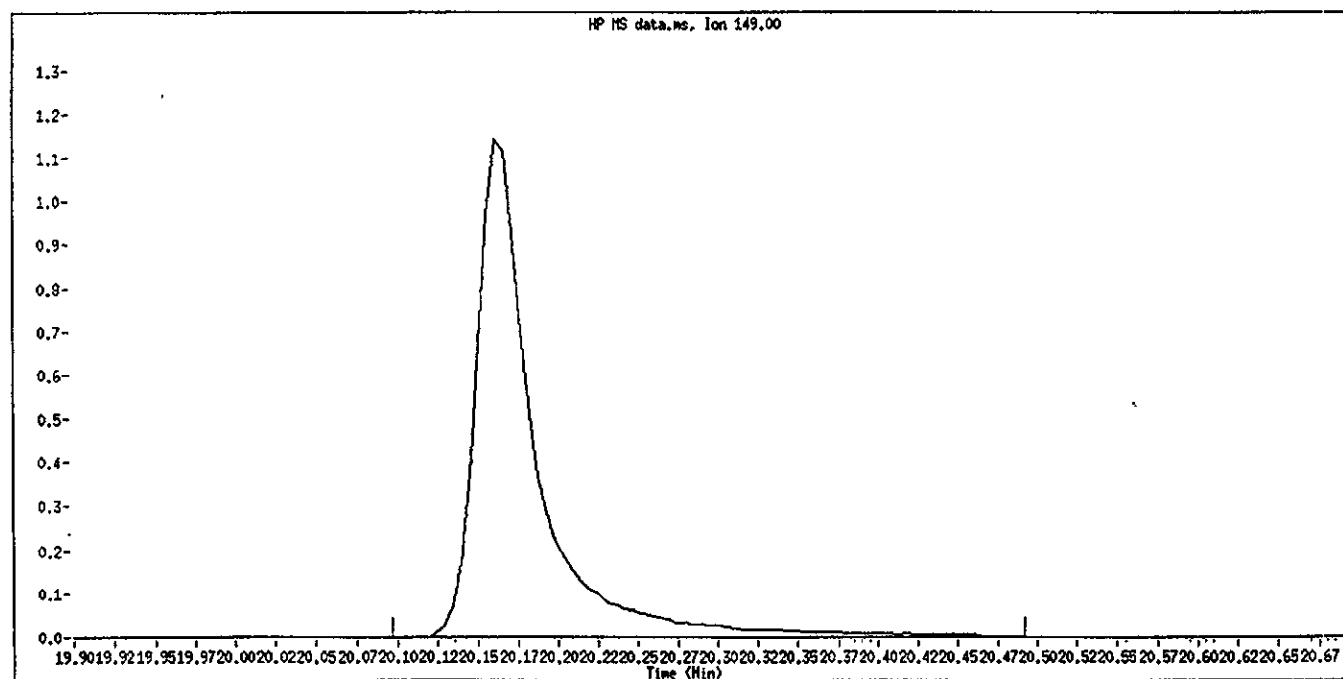
Compound Name bis(2-ethylhexyl)Phthalate

CAS #: 117-81-7

Report Date: 08/28/2000



Original Integration



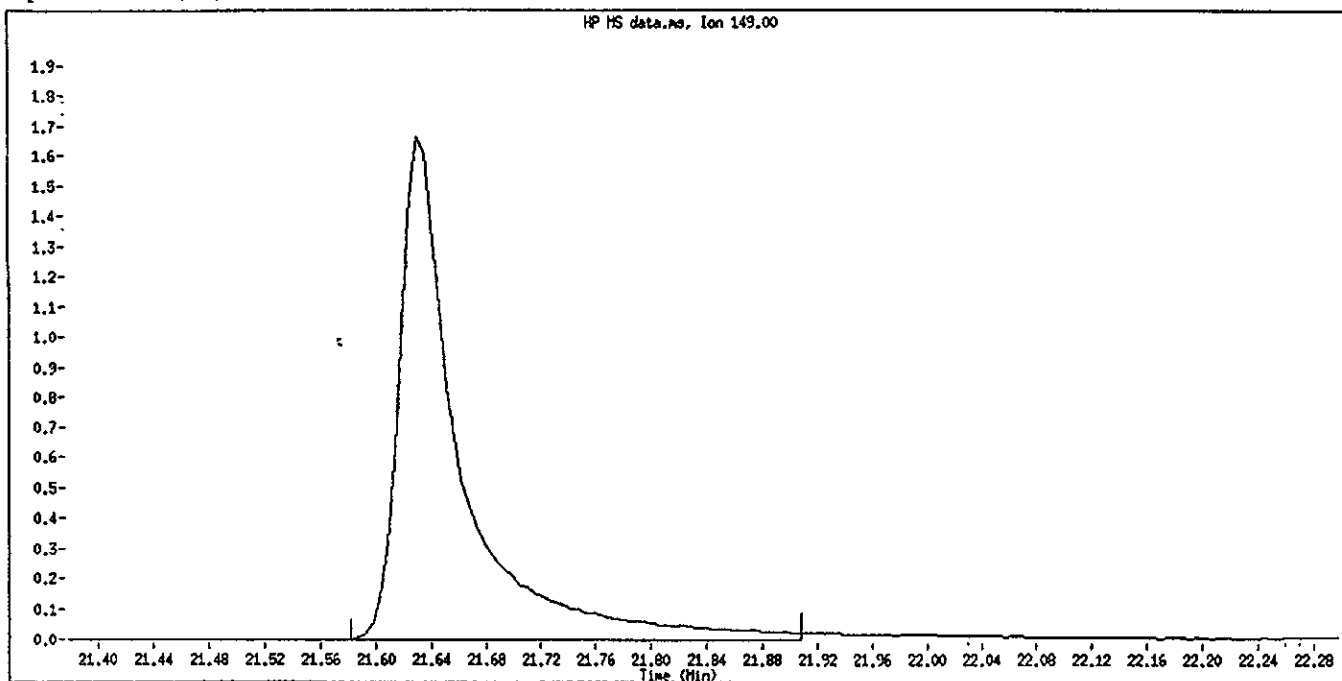
Manual Integration

Manually Integrated By: BachaS

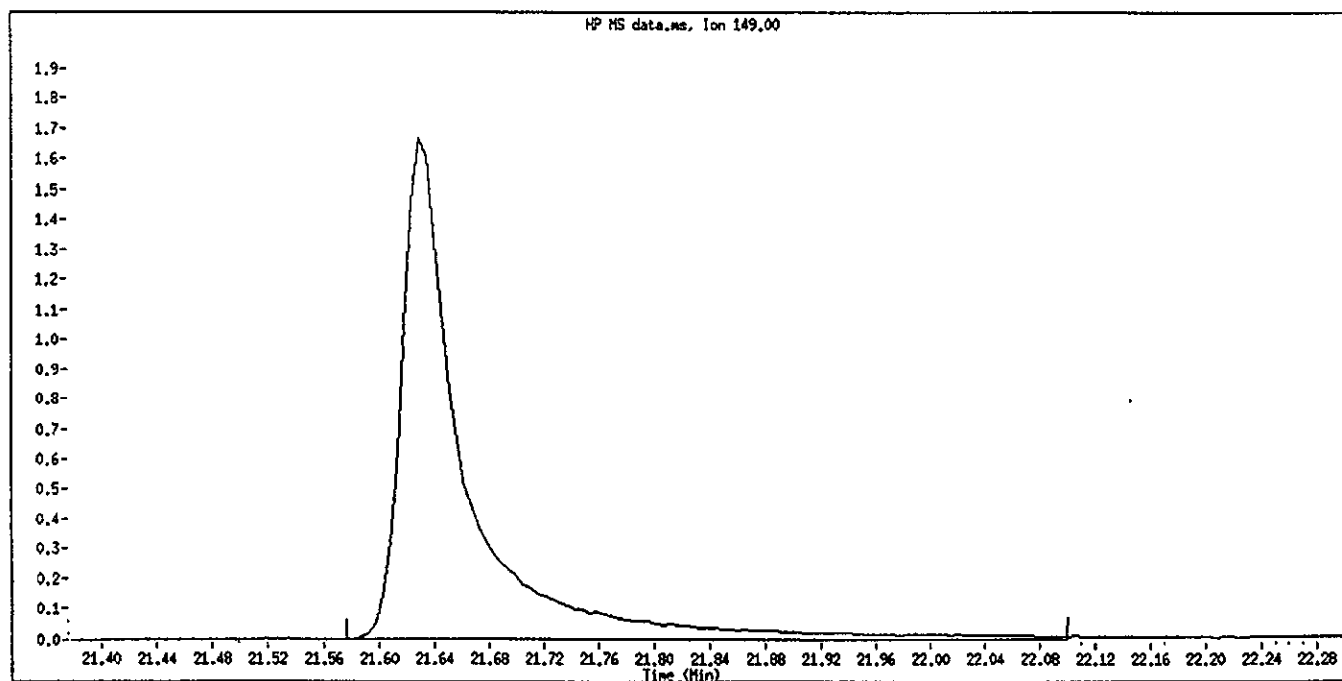
Manual Integration Reason: Poor Chromatography

Data File Name: S0825CC1.D
Inj. Date and Time: 25-AUG-2000 15:15
Instrument ID: 71.1
Client ID: SSTD50
Compound Name: Di-n-octylphthalate
CAS #: 117-84-0
Report Date: 08/28/2000

669 365



Original Integration

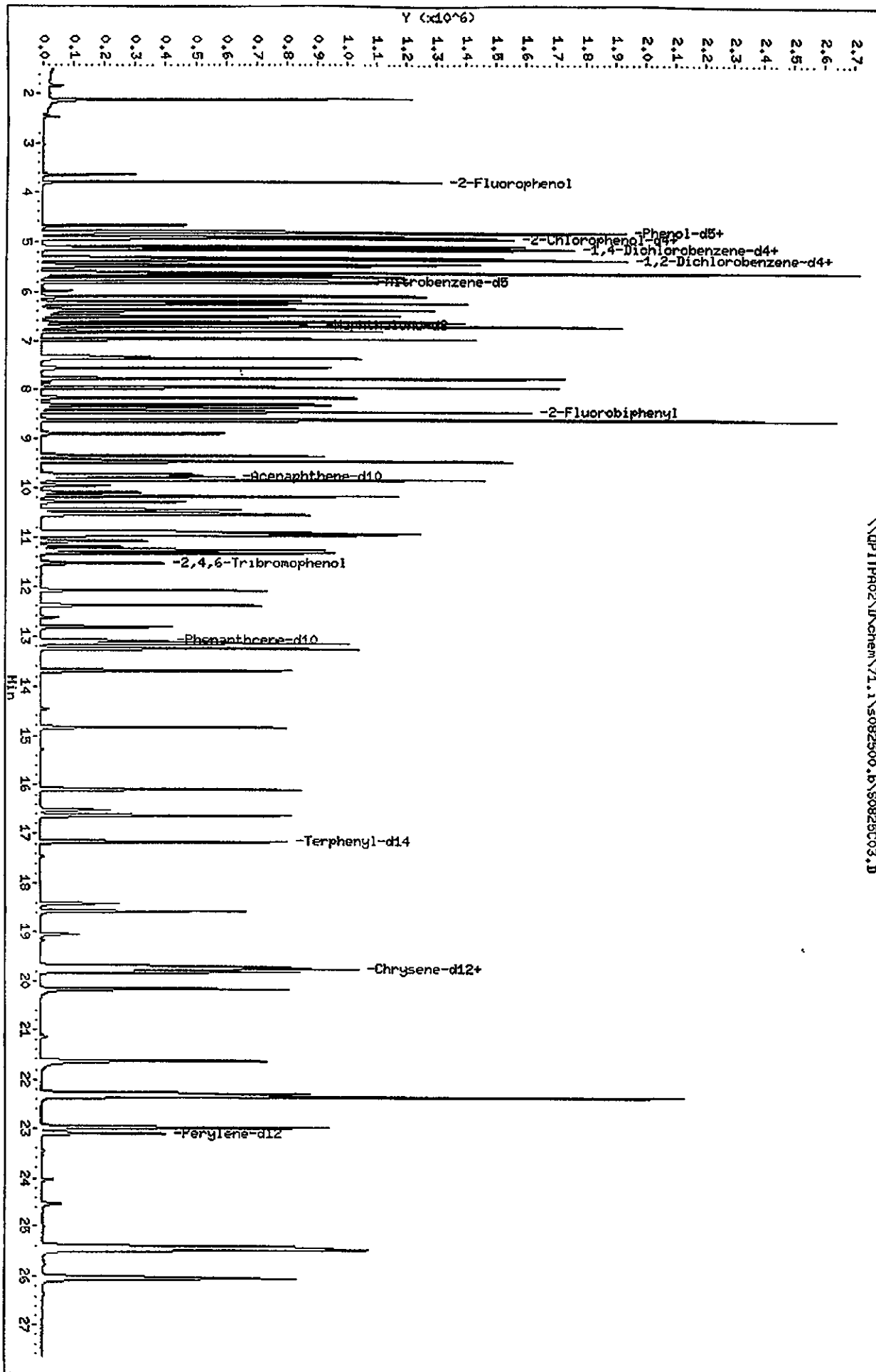


Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File: \\QP1IPA02\Inchem\71.1\5082500.b\50825003.D
Date: 25-AUG-2000 16:23
Client ID: sstd80
Sample Info: sstd80(40 ug/ml) 194-188-5 8270/01p
Column Phase: HP5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082500.b\S0825C03.D
Lab Smp Id: sstd80 Client Smp ID: sstd80
Inj Date : 25-AUG-2000 16:23
Operator : 045183 Inst ID: 71.i
Smp Info : sstd80(40 ug/ml) 194-188-5 8270/clp
Misc Info : sstd80,s082500.b,8270clp.m,1-82701.sub,1,3
Comment :
Method : \\QPITPA02\D\chem\71.i\s082500.b\8270clp.m
Meth Date : 28-Aug-2000 08:46 bachas Quant Type: ISTD
Cal Date : 25-AUG-2000 16:23 Cal File: S0825C03.D
Als bottle: 97 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

sy/m

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
*****	****	==	=====	=====	=====	=====	=====
* 1 1,4-Dichlorobenzene-d4	152	5.142	5.142	(1.000)	174287	40.0000	
* 2 Naphthalene-d8	136	6.696	6.696	(1.000)	627054	40.0000	
* 3 Acenaphthene-d10	164	9.763	9.763	(1.000)	296377	40.0000	
* 4 Phenanthrene-d10	188	13.091	13.091	(1.000)	387393	40.0000	
* 5 Chrysene-d12	240	19.742	19.742	(1.000)	378768	40.0000	
* 6 Perylene-d12	264	23.107	23.107	(1.000)	397892	40.0000	
13 N-Nitrosodimethylamine	74	2.118	2.118	(0.412)	286876	80.0000	80.253 (M)
10 Pyridine	79	2.113	2.113	(0.411)	469362	80.0000	81.787 (M)
19 Methyl methanesulfonate	80	3.646	3.646	(0.709)	133261	80.0000	82.172
22 Aniline	93	4.832	4.832	(0.940)	641747	80.0000	79.860
23 Phenol	94	4.821	4.821	(0.938)	630046	80.0000	77.758
24 bis(2-Chloroethyl)ether	93	4.907	4.907	(0.954)	484211	80.0000	78.414
25 2-Chlorophenol	128	4.949	4.949	(0.963)	473580	80.0000	78.540
27 1,3-Dichlorobenzene	146	5.099	5.099	(0.992)	521290	80.0000	78.595
28 1,4-Dichlorobenzene	146	5.158	5.158	(1.003)	524683	80.0000	78.226
29 1,2-Dichlorobenzene	146	5.366	5.366	(1.044)	479630	80.0000	77.166
30 Benzyl Alcohol	108	5.318	5.318	(1.034)	341782	80.0000	80.534 (M)
31 2-Methylphenol	108	5.462	5.462	(1.062)	424093	80.0000	77.814
32 2,2'-oxybis(1-Chloropropane)	45	5.494	5.494	(1.069)	576599	80.0000	78.304
33 N-Nitroso-di-n-propylamine	70	5.660	5.660	(1.101)	309573	80.0000	78.326
35 4-Methylphenol	108	5.622	5.622	(1.093)	435660	80.0000	77.060
38 Hexachloroethane	117	5.713	5.713	(1.111)	193164	80.0000	79.502
39 Nitrobenzene	77	5.825	5.825	(0.870)	480120	80.0000	79.597
44 Isophorone	82	6.109	6.109	(0.912)	796792	80.0000	79.212
45 2-Nitrophenol	139	6.215	6.215	(0.928)	246251	80.0000	82.652
46 2,4-Dimethylphenol	107	6.258	6.258	(0.935)	425609	80.0000	79.270

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
47 bis(2-Chloroethoxy)methane	93	6.392	6.392	(0.955)	527677	80.0000	79.794
51 2,4-Dichlorophenol	162	6.515	6.515	(0.973)	368151	80.0000	79.691
52 Benzoic Acid	122	6.402	6.402	(0.956)	166077	80.0000	134.84
53 1,2,4-Trichlorobenzene	180	6.637	6.637	(0.991)	420791	80.0000	80.743
54 Naphthalene	128	6.723	6.723	(1.004)	1347030	80.0000	78.133
55 4-Chloroaniline	127	6.824	6.824	(1.019)	517417	80.0000	79.407
59 Hexachlorobutadiene	225	6.979	6.979	(1.042)	259358	80.0000	82.206
62 4-Chloro-3-Methylphenol	107	7.551	7.551	(1.128)	334835	80.0000	79.432
65 2-Methylnaphthalene	142	7.775	7.775	(1.161)	858741	80.0000	78.909
66 1-Methylnaphthalene	142	7.957	7.957	(1.188)	829813	80.0000	80.477
67 Hexachlorocyclopentadiene	237	8.171	8.171	(0.837)	289230	80.0000	87.757
69 2,4,6-Trichlorophenol	196	8.310	8.310	(0.851)	241351	80.0000	83.571
70 2,4,5-Trichlorophenol	196	8.379	8.379	(0.858)	251630	80.0000	83.303 (M)
73 2-Chloronaphthalene	162	8.630	8.630	(0.884)	745749	80.0000	80.674
77 2-Nitroaniline	65	8.892	8.892	(0.911)	184403	80.0000	85.281
80 Dimethylphthalate	163	9.341	9.341	(0.957)	741895	80.0000	82.702
82 2,6-Dinitrotoluene	165	9.469	9.469	(0.970)	158297	80.0000	85.666
83 Acenaphthylene	152	9.447	9.447	(0.968)	1142692	80.0000	81.314
85 3-Nitroaniline	138	9.731	9.731	(0.997)	175223	80.0000	84.189
86 Acenaphthene	153	9.832	9.832	(1.007)	723804	80.0000	81.185
87 2,4-Dinitrophenol	184	9.944	9.944	(1.019)	69518	80.0000	106.21
89 4-Nitrophenol	109	10.094	10.094	(1.034)	71053	80.0000	88.952
90 Dibenzofuran	168	10.169	10.169	(1.042)	999791	80.0000	81.280
91 2,4-Dinitrotoluene	165	10.286	10.286	(1.054)	187632	80.0000	87.016
95 2,3,5,6-Tetrachlorophenol	232	10.446	10.446	(1.070)	183255	80.0000	88.941
92 2,3,4,6-Tetrachlorophenol	232	10.543	10.543	(1.080)	187012	80.0000	87.310 (M)
96 2-Naphthylamine	143	10.516	10.516	(1.077)	518778	80.0000	83.122
97 Diethylphthalate	149	10.884	10.884	(1.115)	660564	80.0000	84.100
98 Fluorene	166	10.927	10.927	(1.119)	769037	80.0000	82.005
99 4-Chlorophenyl-phenylether	204	10.959	10.959	(1.123)	379515	80.0000	82.619
100 4-Nitroaniline	138	11.077	11.077	(1.135)	151415	80.0000	87.456
102 4,6-Dinitro-2-methylphenol	198	11.178	11.178	(0.854)	89046	80.0000	98.614
103 N-Nitrosodiphenylamine (1)	169	11.248	11.248	(0.859)	487681	80.0000	81.965
104 1,2-Diphenylhydrazine	77	11.312	11.312	(0.864)	730160	80.0000	80.939
112 4-Bromophenyl-phenylether	248	12.076	12.076	(0.922)	199259	80.0000	84.152
113 Hexachlorobenzene	284	12.380	12.380	(0.946)	207167	80.0000	84.124
117 Pentachlorophenol	266	12.813	12.813	(0.979)	112539	80.0000	92.673
122 Phenanthrene	178	13.144	13.144	(1.004)	891462	80.0000	82.296
123 Anthracene	178	13.251	13.251	(1.012)	909035	80.0000	82.798
126 Carbazole	167	13.684	13.684	(1.045)	777406	80.0000	86.096
130 Di-n-Butylphthalate	149	14.832	14.832	(1.133)	860134	80.0000	92.247
135 Fluoranthene	202	16.093	16.093	(1.229)	809163	80.0000	91.112
136 Benzidine	184	16.515	16.515	(0.837)	254424	80.0000	102.46 (M)
137 Pyrene	202	16.638	16.638	(0.843)	833557	80.0000	74.045
144 Butylbenzylphthalate	149	18.582	18.582	(0.941)	332693	80.0000	88.749
149 3,3'-Dichlorobenzidine	252	19.747	19.747	(1.000)	347231	80.0000	92.097
150 Benzo(a)Anthracene	228	19.699	19.699	(0.998)	801616	80.0000	82.881

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	----	--	-----	-----	-----	-----	-----	-----	
151 Chrysene	228		19.806	19.806	(1.003)	776095	80.0000	81.213	
153 bis(2-ethylhexyl)Phthalate	149		20.158	20.158	(1.021)	550468	80.0000	84.612 (M)	
155 Di-n-octylphthalate	149		21.633	21.633	(0.936)	1013462	80.0000	85.533 (M)	
157 Benzo(b)fluoranthene	252		22.290	22.290	(0.965)	934911	80.0000	83.924	
158 Benzo(k)fluoranthene	252		22.354	22.354	(0.967)	1214909	80.0000	87.716	
159 7,12-dimethylbenz[a]anthracene	256		22.354	22.354	(0.967)	529643	80.0000	91.526	
167 Benzo(a)pyrene	252		22.990	22.990	(0.995)	960011	80.0000	86.204	
169 Indeno(1,2,3-cd)pyrene	276		25.431	25.431	(1.101)	1402141	80.0000	83.540	
170 Dibenzo(a,h)anthracene	278		25.479	25.479	(1.103)	1252874	80.0000	84.509	
171 Benzo(g,h,i)perylene	276		26.045	26.045	(1.127)	1193441	80.0000	83.270	
\$ 172 Nitrobenzene-d5	82		5.804	5.804	(0.867)	466512	80.0000	80.105	
\$ 173 2-Fluorobiphenyl	172		8.459	8.459	(0.866)	908268	80.0000	82.231	
\$ 174 Terphenyl-d14	244		17.167	17.167	(0.870)	628296	80.0000	76.270	
\$ 175 Phenol-d5	99		4.805	4.805	(0.935)	590444	80.0000	79.760	
\$ 176 2-Fluorophenol	112		3.795	3.795	(0.738)	478125	80.0000	81.351	
\$ 177 2,4,6-Tribromophenol	330		11.515	11.515	(0.880)	99322	80.0000	88.265	
\$ 178 2-Chlorophenol-d4	132		4.933	4.933	(0.959)	447658	80.0000	80.634	
\$ 179 1,2-Dichlorobenzene-d4	152		5.350	5.350	(1.041)	322580	80.0000	78.708	

QC Flag Legend

M - Compound response manually integrated.

669 370

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Inj. Date and Time: 25-AUG-2000 16:23

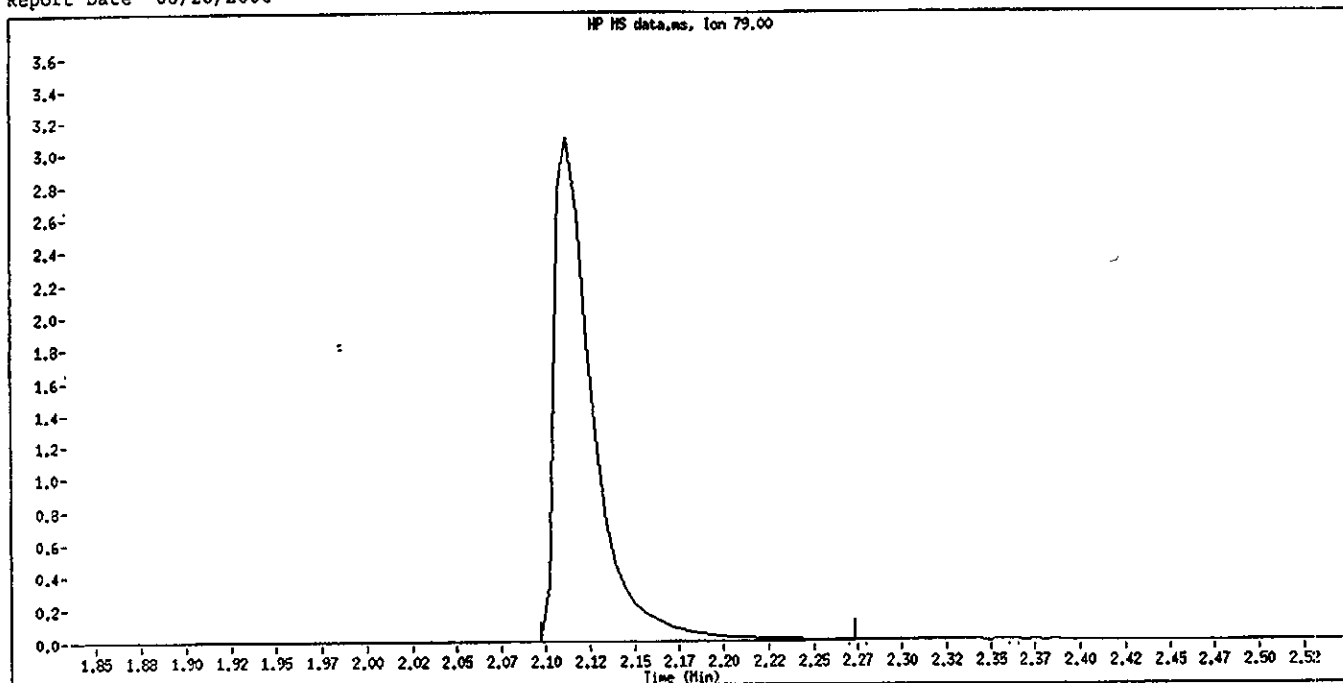
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Client ID: sstd80

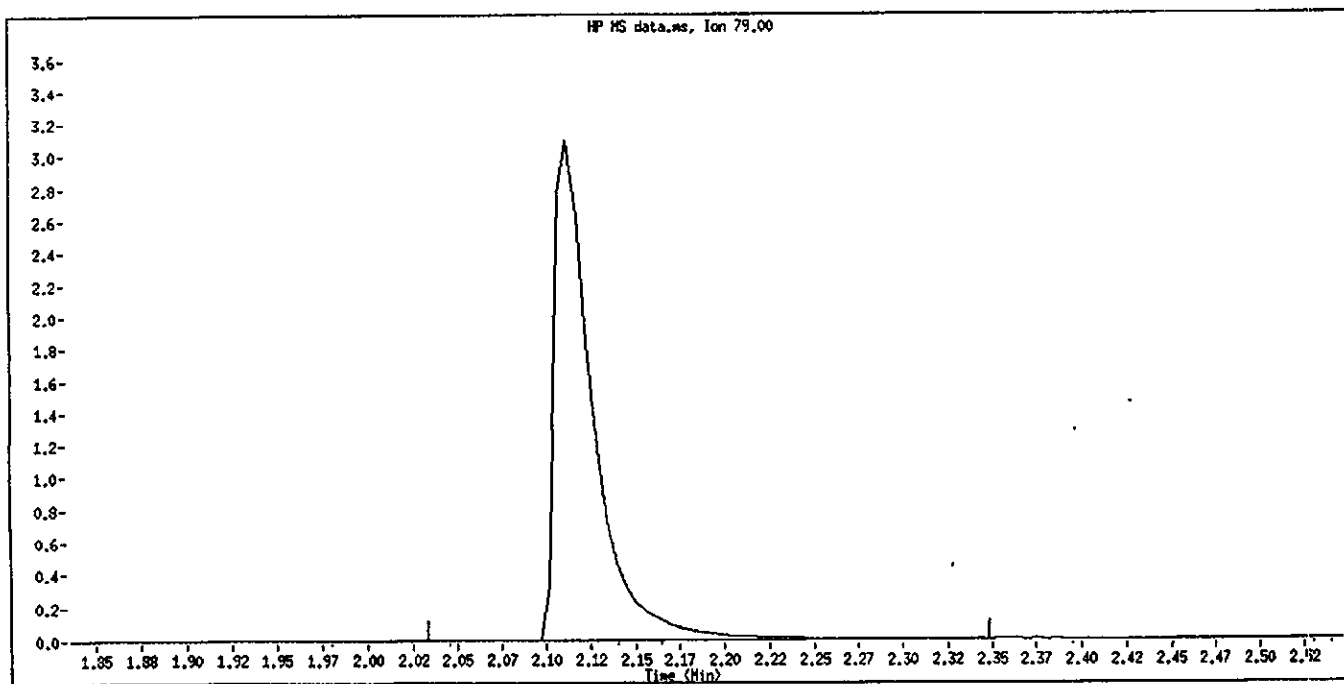
Compound Name: Pyridine

CAS #: 110-86-1

Report Date 08/28/2000



Original Integration

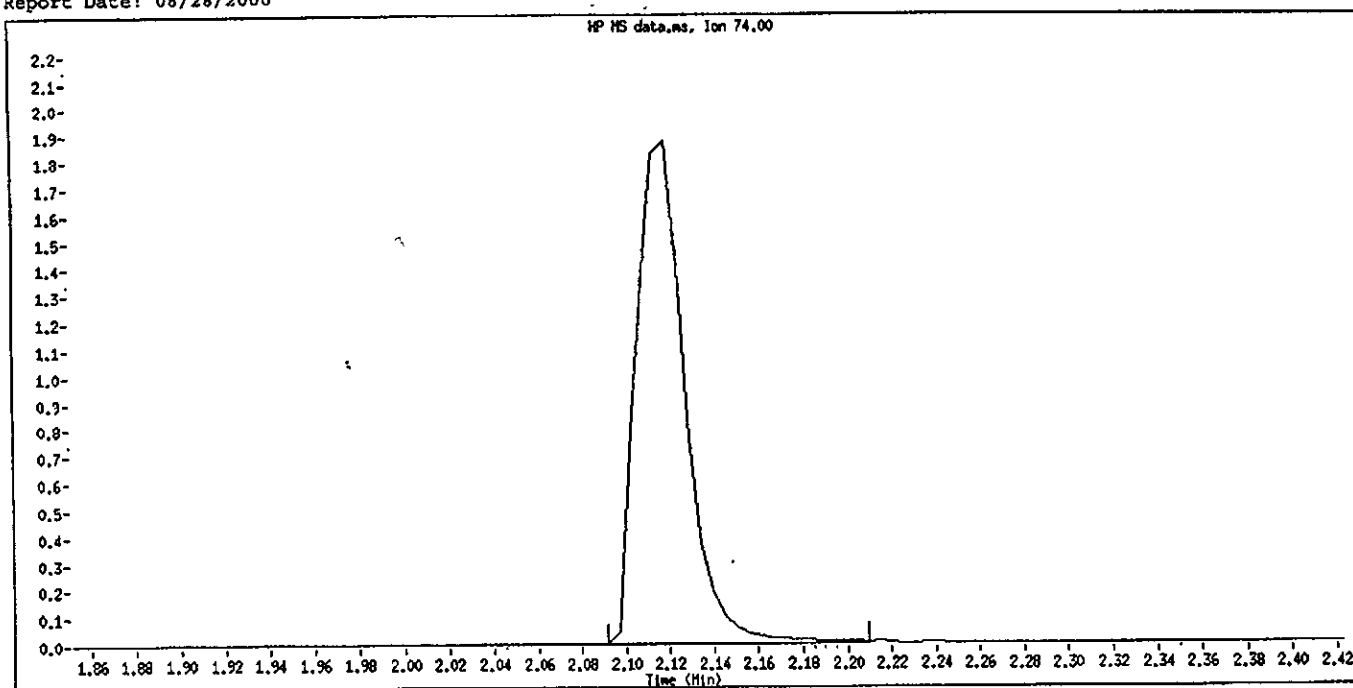


Manual Integration

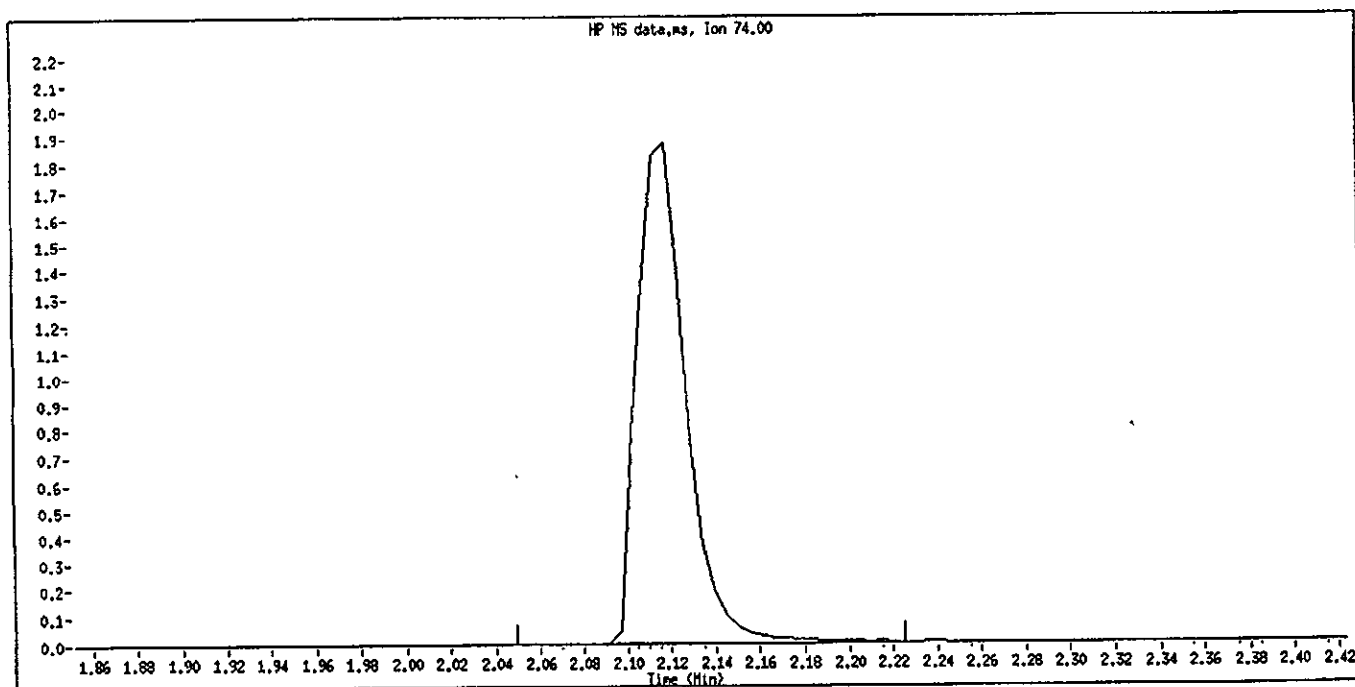
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Manual Integration Reason: Poor Chromatography

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Instrument ID: 71.1
Client ID: sstd80
Compound Name: N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 372

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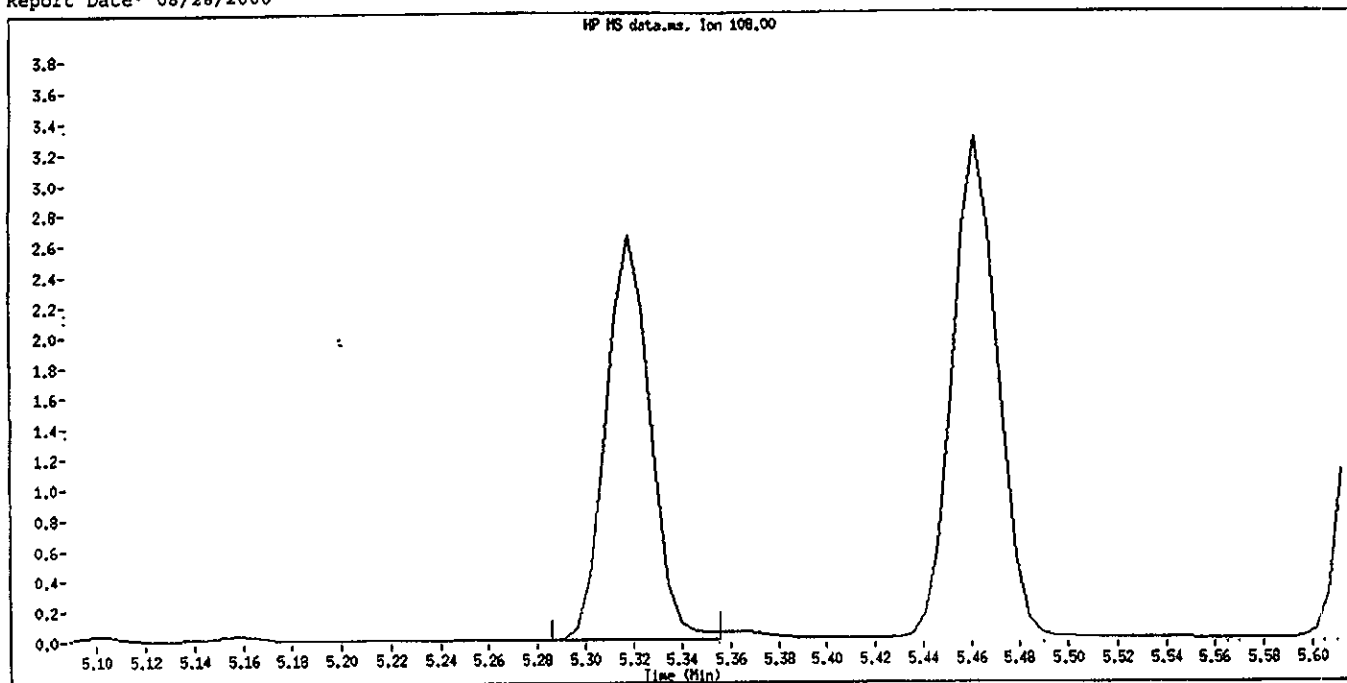
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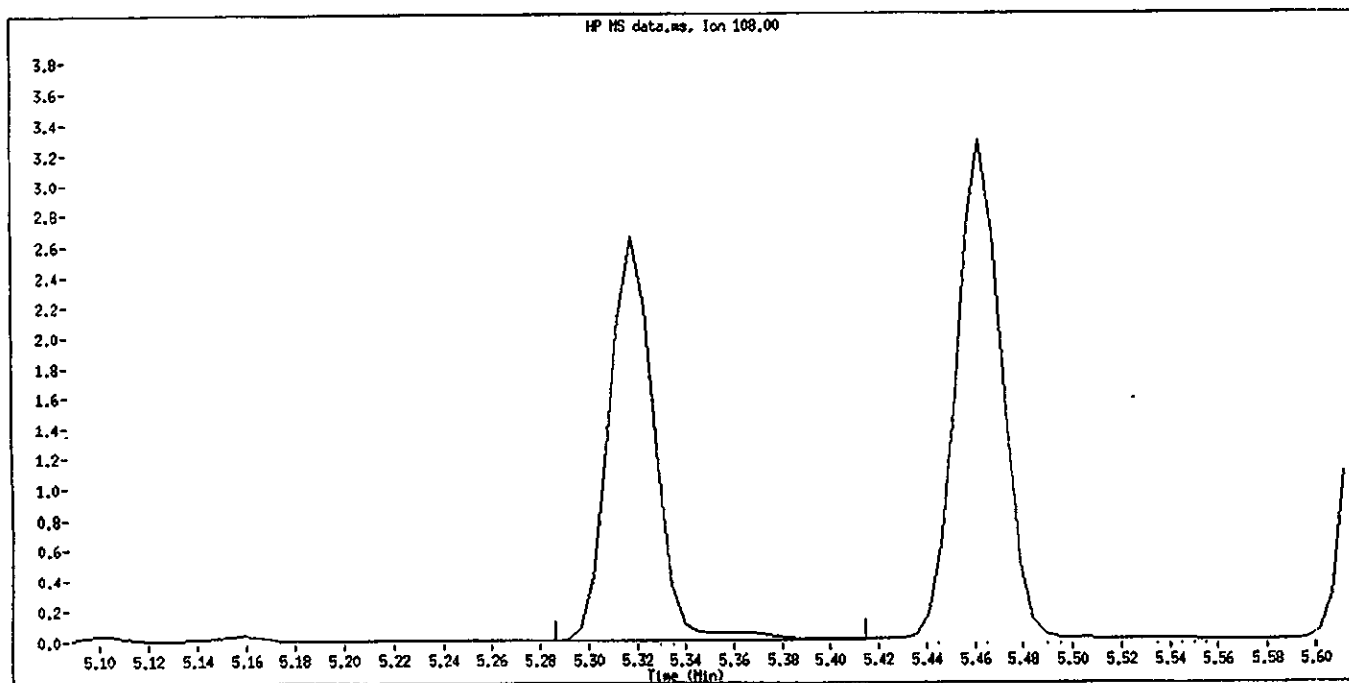
Compound Name: Benzyl Alcohol

CAS #: 100-51-6

Report Date: 08/28/2000



Original Integration

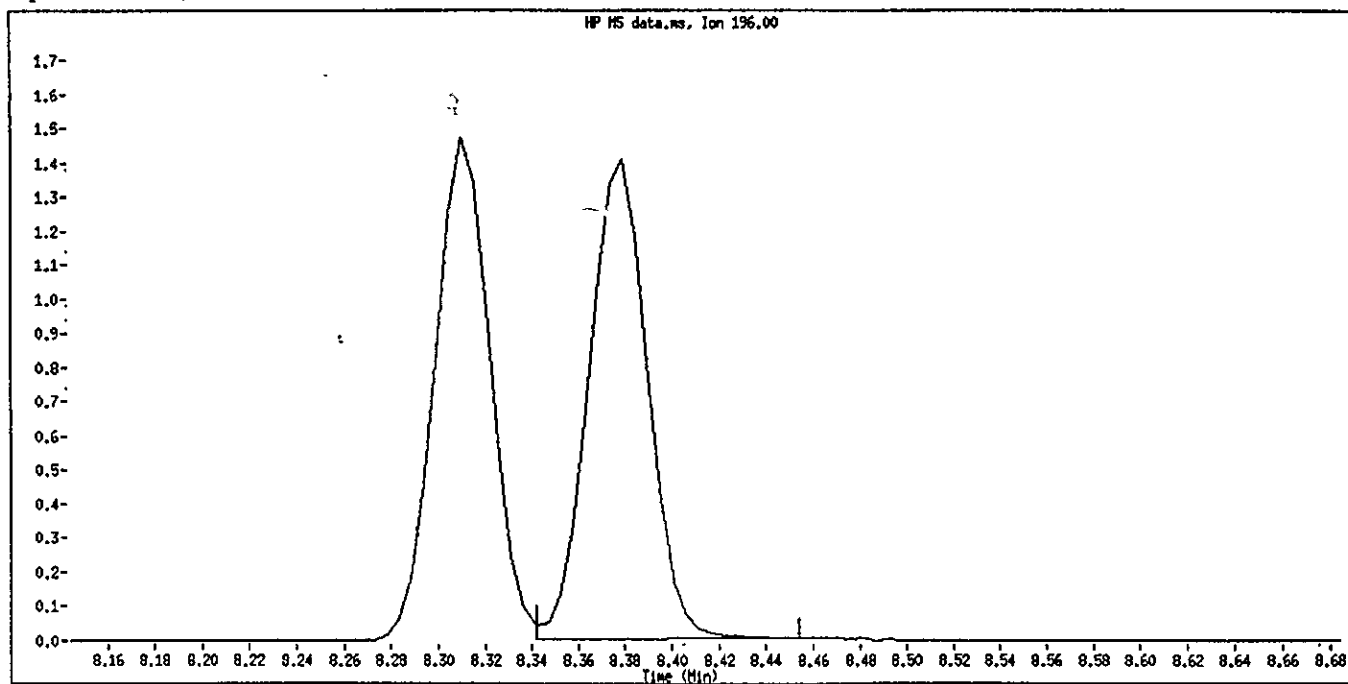


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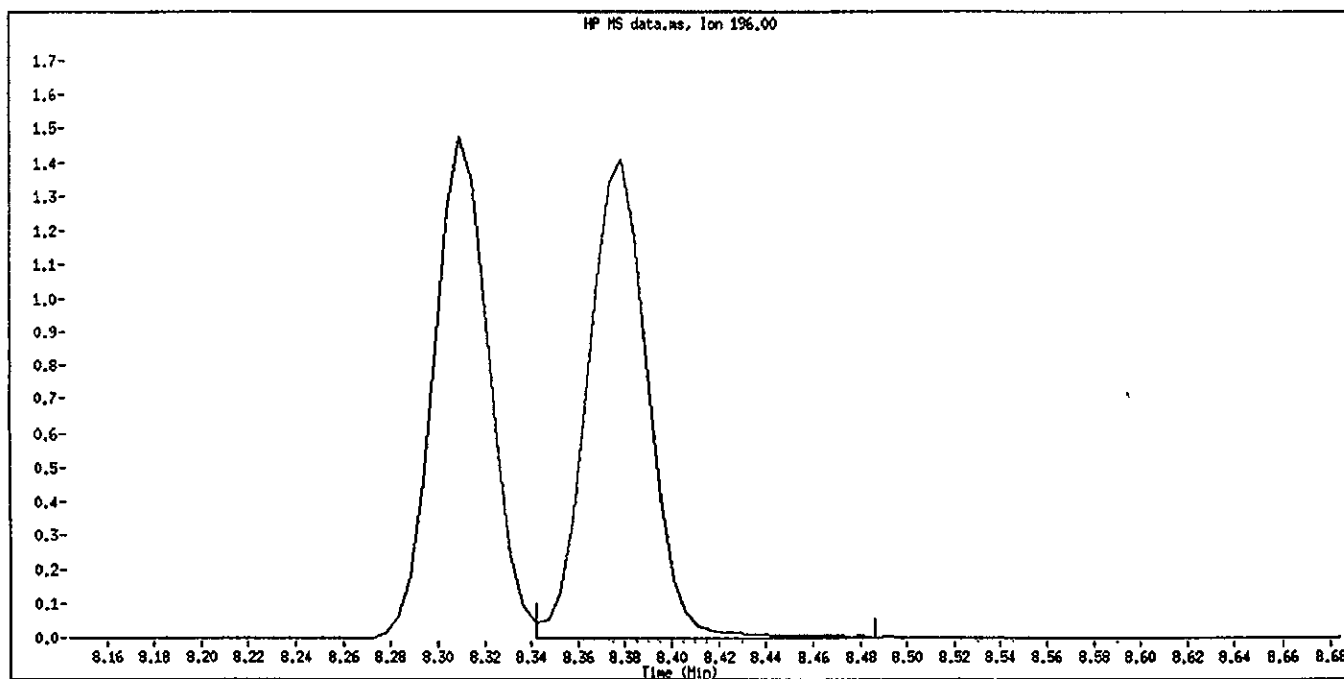
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Manual Integration Reason: Poor Chromatography

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Instrument ID: 71.1
Client ID: sstd80
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 374

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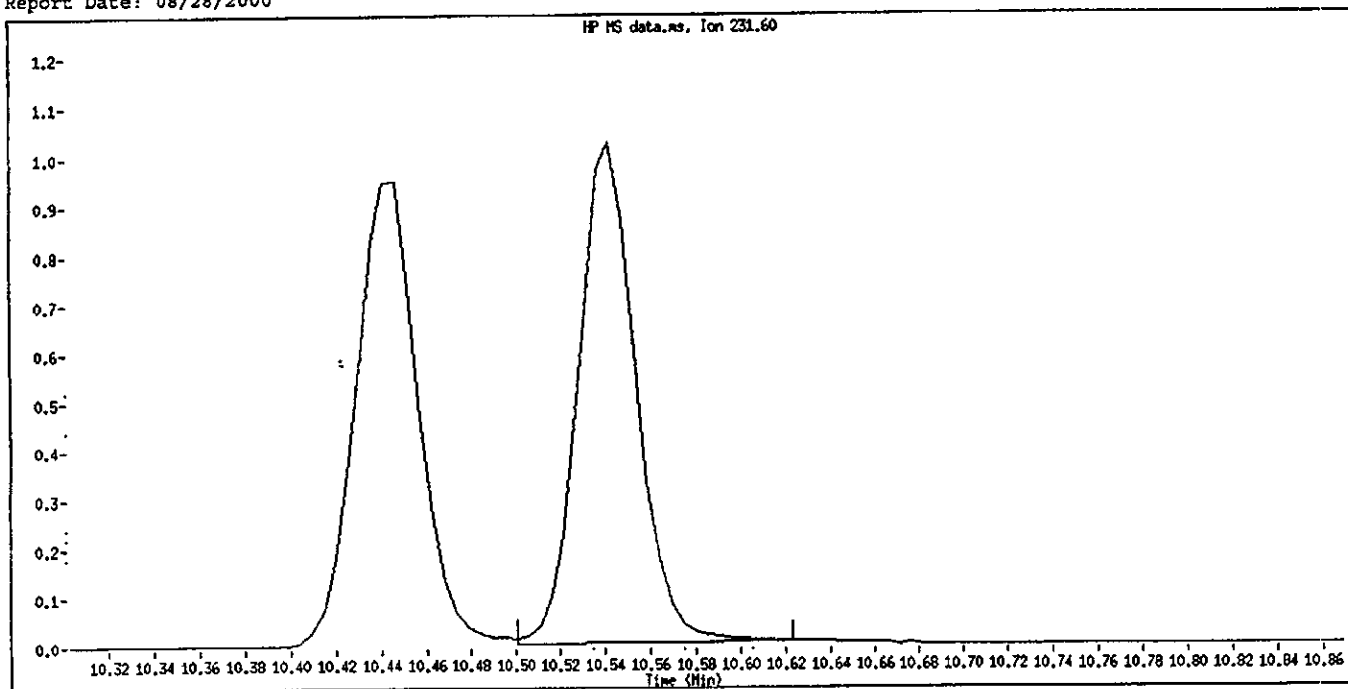
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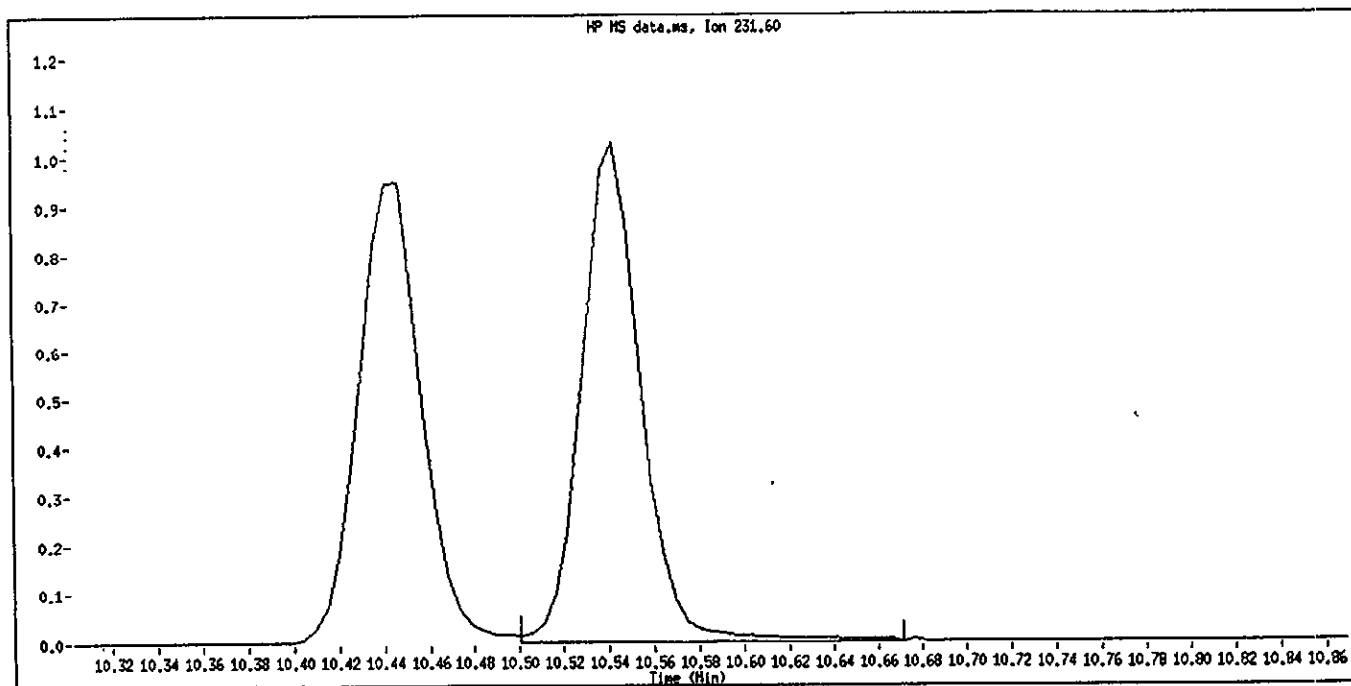
Compound Name: 2,3,4,6-Tetrachlorophenol

CAS #: 58-90-2

Report Date: 08/28/2000



Original Integration

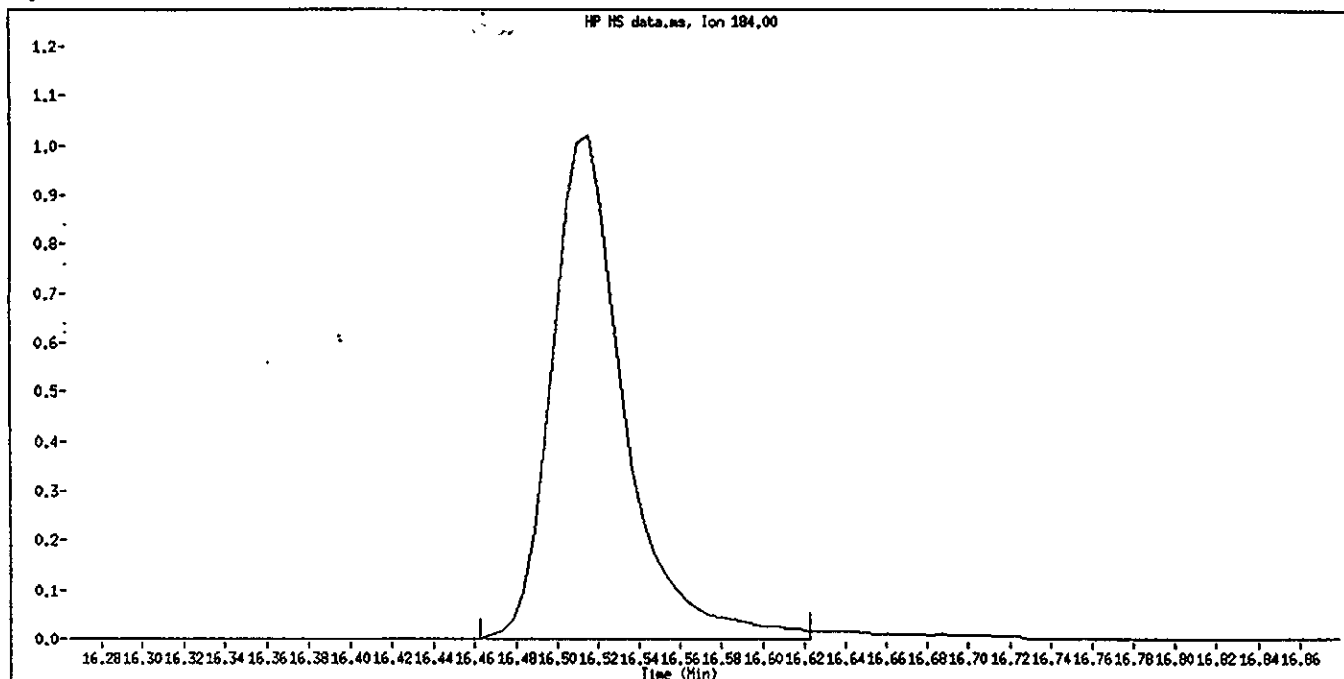


Manual Integration

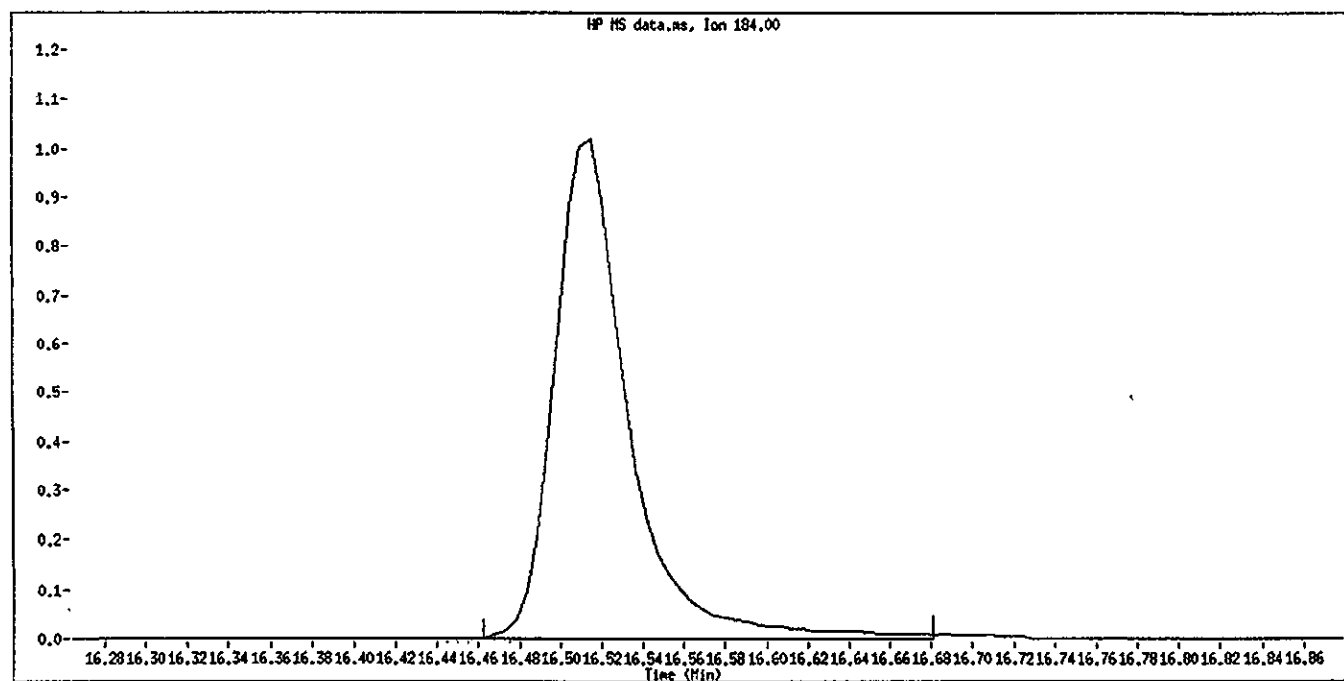
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Manual Integration Reason: Poor Chromatography

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Instrument ID: 71.1
Client ID: sstd80
Compound Name: Benzidine
CAS #: 92-87-5
Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 376

Data File Name: S0825C03.D

Inj Date and Time 25-AUG-2000 16.23

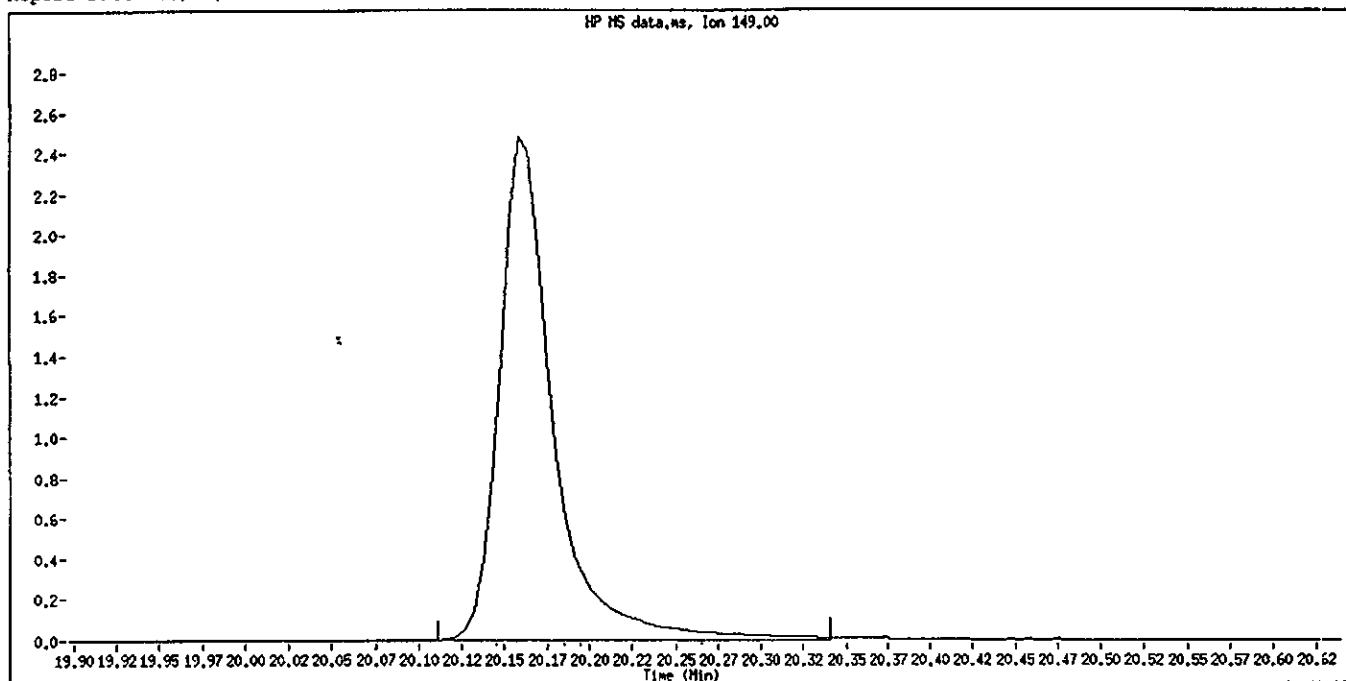
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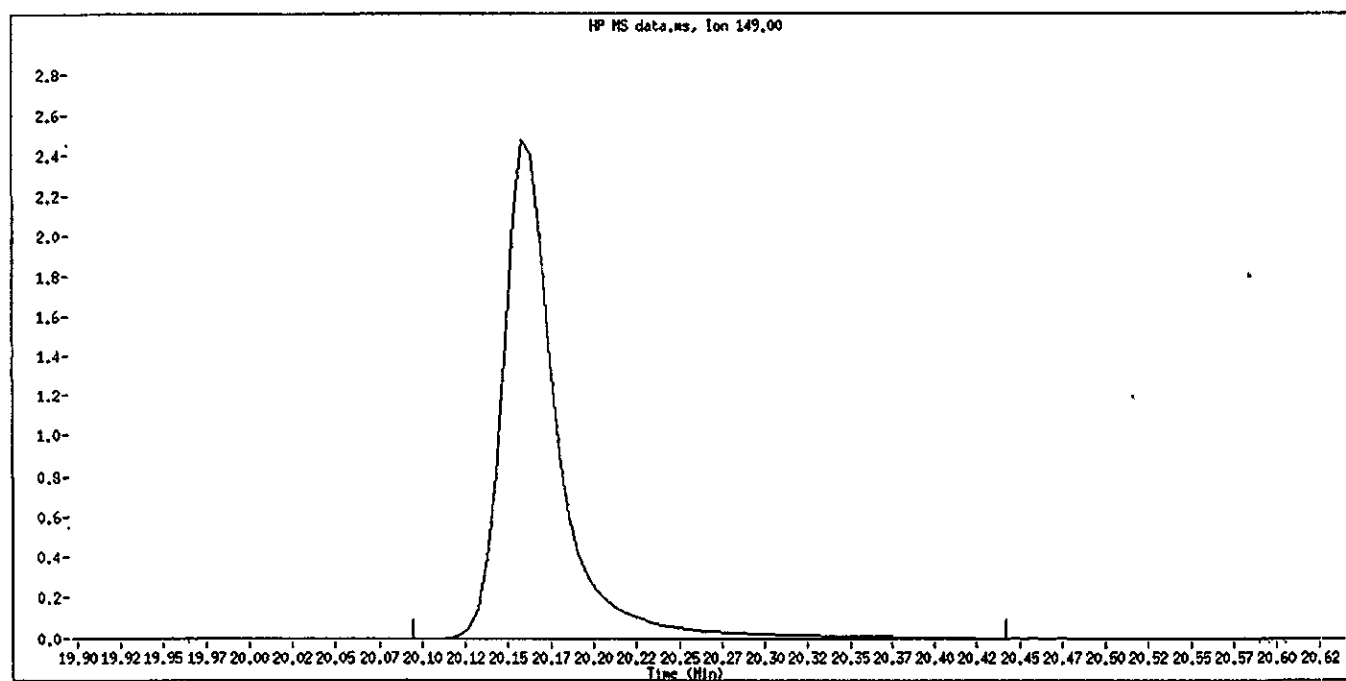
Compound Name: bis(2-ethylhexyl)Phthalate

CAS #: 117-81-7

Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File Name: S0825C03.D

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Instrument ID: 71.1

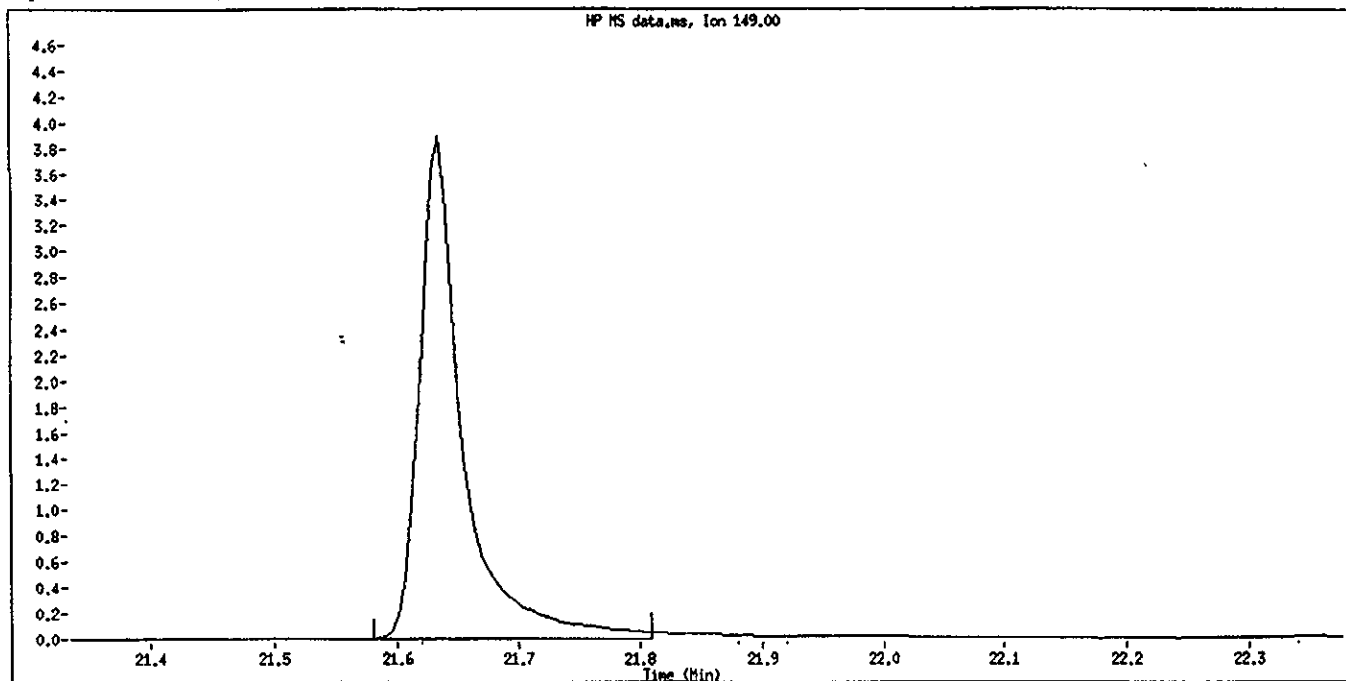
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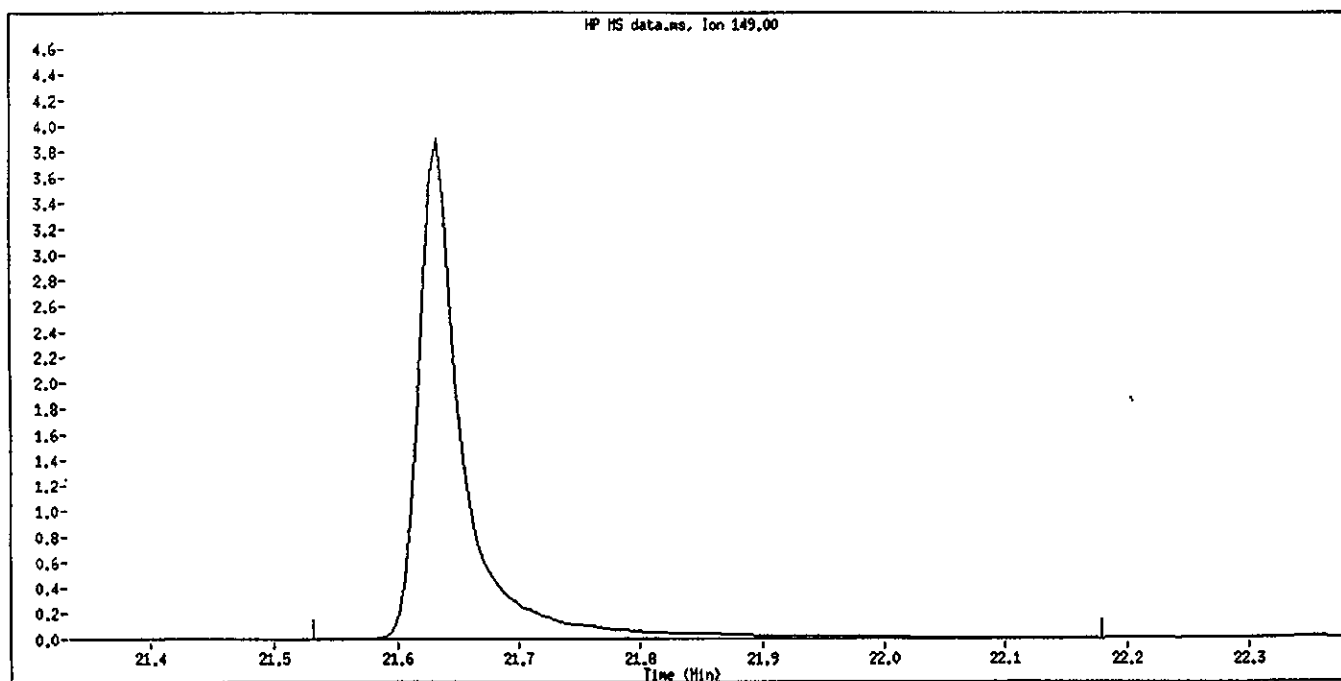
CAS #: 117-84-0

Report Date 08/28/2000

669 377



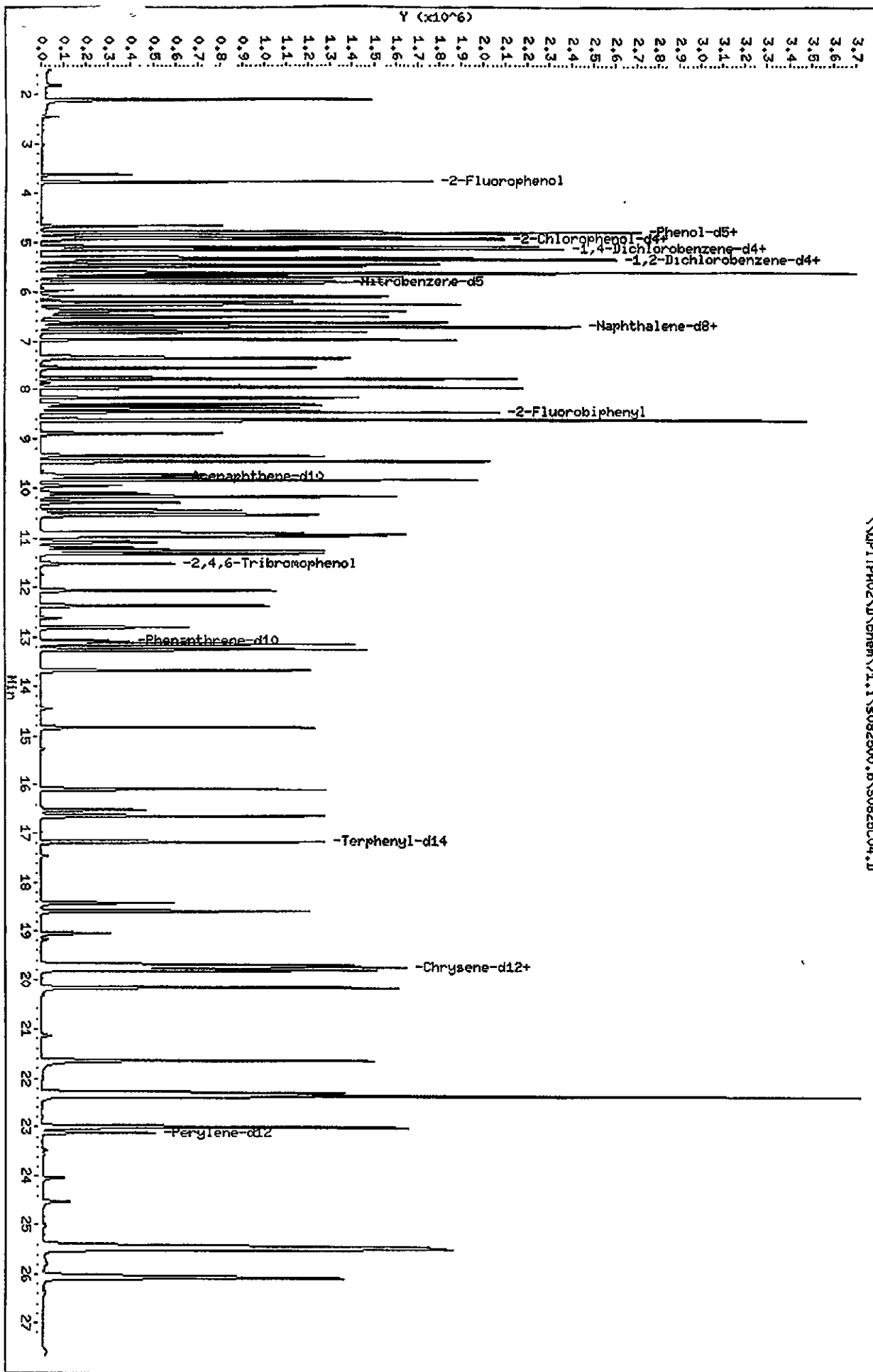
Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography



Data File: \\QPIITPA02\chem\71.1\5082500.b\50825004.D
Date: 25-AUG-2000 17:10
Client ID: SST0120
Sample Info: sstd120(60 ug/ml) 194-188-6 8270/cip
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25

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Data File: \\QPITPA02\D\chem\71.i\s082500.b\S0825C04.D
Report Date: 28-Aug-2000 08:47

Page 1

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082500.b\S0825C04.D
Lab Smp Id: sstd120 Client Smp ID: SSTD120
Inj Date : 25-AUG-2000 17:10
Operator : 045183 Inst ID: 71.i
Smp Info : sstd120(60 ug/ml) 194-188-6 8270/clp
Misc Info : sstd120,s082500.b,8270clp.m,1-82701.sub,1,4
Comment :
Method : \\QPITPA02\D\chem\71.i\s082500.b\8270clp.m
Meth Date : 28-Aug-2000 08:47 bachas Quant Type: ISTD
Cal Date : 25-AUG-2000 17:10 Cal File: S0825C04.D
Als bottle: 98 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	****	**	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	5.131	5.131	(1.000)	167134	40.0000	
* 2 Naphthalene-d8	136	6.691	6.691	(1.000)	581062	40.0000	
* 3 Acenaphthene-d10	164	9.762	9.762	(1.000)	270829	40.0000	
* 4 Phenanthrene-d10	188	13.085	13.085	(1.000)	367665	40.0000	
* 5 Chrysene-d12	240	19.747	19.747	(1.000)	447902	40.0000	
* 6 Perylene-d12	264	23.112	23.112	(1.000)	464512	40.0000	
13 N-Nitrosodimethylamine	74	2.096	2.096	(0.409)	400116	120.000	117.52 (M)
10 Pyridine	79	2.091	2.091	(0.408)	659158	120.000	119.83 (M)
19 Methyl methanesulfonate	80	3.630	3.630	(0.707)	181157	120.000	117.35
22 Aniline	93	4.826	4.826	(0.941)	852860	120.000	112.87
23 Phenol	94	4.815	4.815	(0.939)	843383	120.000	111.20
24 bis(2-Chloroethyl)ether	93	4.901	4.901	(0.955)	658811	120.000	113.32
25 2-Chlorophenol	128	4.944	4.944	(0.964)	646957	120.000	113.81
27 1,3-Dichlorobenzene	146	5.093	5.093	(0.993)	708269	120.000	113.40
28 1,4-Dichlorobenzene	146	5.152	5.152	(1.004)	711724	120.000	112.85
29 1,2-Dichlorobenzene	146	5.360	5.360	(1.045)	649747	120.000	111.56
30 Benzyl Alcohol	108	5.312	5.312	(1.035)	455749	120.000	113.88 (M)
31 2-Methylphenol	108	5.457	5.457	(1.064)	569382	120.000	111.51
32 2,2'-oxybis(1-Chloropropane)	45	5.489	5.489	(1.070)	776709	120.000	112.34
33 N-Nitroso-di-n-propylamine	70	5.660	5.660	(1.103)	416842	120.000	112.32
35 4-Methylphenol	108	5.622	5.622	(1.096)	575364	120.000	109.28
38 Hexachloroethane	117	5.708	5.708	(1.112)	266656	120.000	115.78
39 Nitrobenzene	77	5.825	5.825	(0.871)	646612	120.000	116.73
44 Isophorone	82	6.103	6.103	(0.912)	1059787	120.000	115.21
45 2-Nitrophenol	139	6.215	6.215	(0.929)	337993	120.000	121.81
46 2,4-Dimethylphenol	107	6.258	6.258	(0.935)	567189	120.000	115.44

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.391	6.391	(0.955)	706208	120.000	116.40
51 2,4-Dichlorophenol	162	6.514	6.514	(0.974)	490892	120.000	115.96
52 Benzoic Acid	122	6.423	6.423	(0.960)	212310	120.000	163.53 (A)
53 1,2,4-Trichlorobenzene	180	6.632	6.632	(0.991)	571041	120.000	118.68
54 Naphthalene	128	6.717	6.717	(1.004)	1767842	120.000	112.85
55 4-Chloroaniline	127	6.819	6.819	(1.019)	691374	120.000	115.83
59 Hexachlorobutadiene	225	6.979	6.979	(1.043)	359093	120.000	122.11
62 4-Chloro-3-Methylphenol	107	7.551	7.551	(1.129)	447930	120.000	115.96
65 2-Methylnaphthalene	142	7.770	7.770	(1.161)	1137606	120.000	114.52
66 1-Methylnaphthalene	142	7.957	7.957	(1.189)	1078636	120.000	114.58
67 Hexachlorocyclopentadiene	237	8.165	8.165	(0.836)	403923	120.000	130.29
69 2,4,6-Trichlorophenol	196	8.309	8.309	(0.851)	327638	120.000	123.09
70 2,4,5-Trichlorophenol	196	8.373	8.373	(0.858)	340002	120.000	122.37 (M)
73 2-Chloronaphthalene	162	8.630	8.630	(0.884)	983309	120.000	117.28
77 2-Nitroaniline	65	8.891	8.891	(0.911)	253351	120.000	126.06
80 Dimethylphthalate	163	9.340	9.340	(0.957)	999536	120.000	121.44
82 2,6-Dinitrotoluene	165	9.463	9.463	(0.969)	218882	120.000	127.08
83 Acenaphthylene	152	9.447	9.447	(0.968)	1516802	120.000	118.58
85 3-Nitroaniline	138	9.730	9.730	(0.997)	248121	120.000	127.68
86 Acenaphthene	153	9.832	9.832	(1.007)	966115	120.000	118.94
87 2,4-Dinitrophenol	184	9.944	9.944	(1.019)	112580	120.000	164.80 (A)
89 4-Nitrophenol	109	10.099	10.099	(1.034)	107988	120.000	139.80
90 Dibenzofuran	168	10.168	10.168	(1.042)	1338135	120.000	119.28
91 2,4-Dinitrotoluene	165	10.291	10.291	(1.054)	266943	120.000	131.24
95 2,3,5,6-Tetrachlorophenol	232	10.441	10.441	(1.069)	255323	120.000	131.34
92 2,3,4,6-Tetrachlorophenol	232	10.542	10.542	(1.080)	260874	120.000	129.69 (M)
96 2-Naphthylamine	143	10.516	10.516	(1.077)	694991	120.000	121.39
97 Diethylphthalate	149	10.884	10.884	(1.115)	923623	120.000	126.40
98 Fluorene	166	10.927	10.927	(1.119)	1034614	120.000	120.55
99 4-Chlorophenyl-phenylether	204	10.959	10.959	(1.123)	517909	120.000	122.52
100 4-Nitroaniline	138	11.082	11.082	(1.135)	225795	120.000	136.27
102 4,6-Dinitro-2-methylphenol	198	11.183	11.183	(0.855)	143374	120.000	152.29
103 N-Nitrosodiphenylamine (1)	169	11.253	11.253	(0.860)	685295	120.000	121.02
104 1,2-Diphenylhydrazine	77	11.317	11.317	(0.865)	981635	120.000	115.94
112 4-Bromophenyl-phenylether	248	12.075	12.075	(0.923)	277549	120.000	122.61
113 Hexachlorobenzene	284	12.380	12.380	(0.946)	297509	120.000	125.39
117 Pentachlorophenol	266	12.813	12.813	(0.979)	175458	120.000	142.66 (M)
122 Phenanthrene	178	13.144	13.144	(1.004)	1252668	120.000	121.38
123 Anthracene	178	13.251	13.251	(1.013)	1287763	120.000	122.67
126 Carbazole	167	13.689	13.689	(1.046)	1160754	120.000	131.22
130 Di-n-Butylphthalate	149	14.832	14.832	(1.133)	1318176	120.000	140.48
135 Fluoranthene	202	16.098	16.098	(1.230)	1279785	120.000	142.39
136 Benzidine	184	16.515	16.515	(0.836)	480762	120.000	150.06 (M)
137 Pyrene	202	16.638	16.638	(0.843)	1326776	120.000	104.08
144 Butylbenzylphthalate	149	18.587	18.587	(0.941)	604151	120.000	131.81
149 3,3'-Dichlorobenzidine	252	19.752	19.752	(1.000)	639061	120.000	136.69
150 Benzo(a)Anthracene	228	19.709	19.709	(0.998)	1424622	120.000	123.39

Data File: \\QPITPA02\D\chem\71.i\s082500.b\S0825C04.D
 Report Date: 28-Aug-2000 08:47

Page 3

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
	-----	--	-----	-----	-----	-----	-----
151 Chrysene	228	19.811	19.811	(1.003)	1375583	120.000	121.29
153 bis(2-ethylhexyl)Phthalate	149	20.163	20.163	(1.021)	974377	120.000	124.92 (M)
155 Di-n-octylphthalate	149	21.638	21.638	(0.936)	1794719	120.000	127.16 (M)
157 Benzo(b)fluoranthene	252	22.300	22.300	(0.965)	1661787	120.000	125.74
158 Benzo(k)fluoranthene	252	22.364	22.364	(0.968)	2227408	120.000	132.84
159 7,12-dimethylbenz(a)anthracen	256	22.364	22.364	(0.968)	971544	120.000	137.01
167 Benzo(a)pyrene	252	23.005	23.005	(0.995)	1722710	120.000	129.14
169 Indeno(1,2,3-cd)pyrene	276	25.447	25.447	(1.101)	2529909	120.000	126.71
170 Dibenz(a,h)anthracene	278	25.495	25.495	(1.103)	2274242	120.000	128.35
171 Benzo(g,h,i)perylene	276	26.066	26.066	(1.128)	2097251	120.000	123.96
\$ 172 Nitrobenzene-d5	82	5.798	5.798	(0.867)	632362	120.000	117.87
\$ 173 2-Fluorobiphenyl	172	8.459	8.459	(0.866)	1198258	120.000	119.04
\$ 174 Terphenyl-d14	244	17.172	17.172	(0.870)	1024390	120.000	108.51
\$ 175 Phenol-d5	99	4.799	4.799	(0.935)	785300	120.000	112.83
\$ 176 2-Fluorophenol	112	3.784	3.784	(0.738)	653815	120.000	116.98
\$ 177 2,4,6-Tribromophenol	330	11.514	11.514	(0.880)	143160	120.000	130.24
\$ 178 2-Chlorophenol-d4	132	4.922	4.922	(0.959)	600144	120.000	114.46
\$ 179 1,2-Dichlorobenzene-d4	152	5.344	5.344	(1.042)	443938	120.000	114.64

QC Flag Legend

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

669 382

Data File Name S0825C04.D

Inj. Date and Time: 25-AUG-2000 17:10

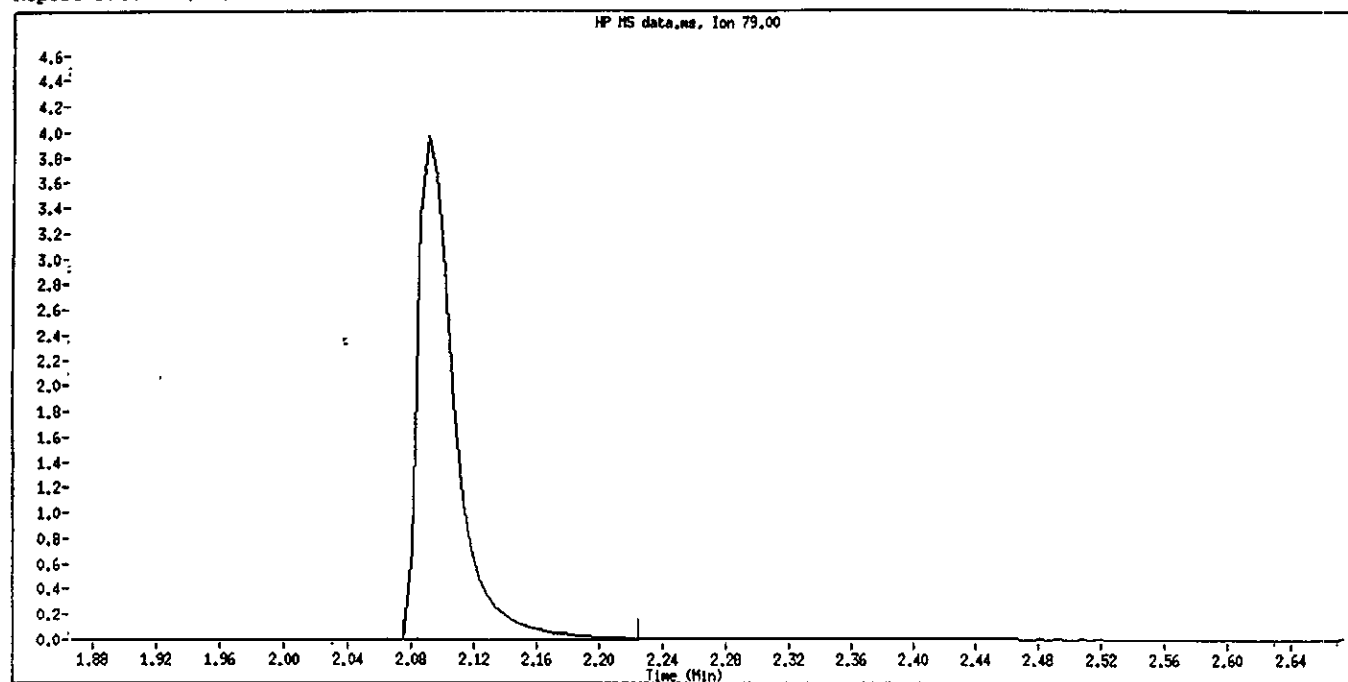
Instrument ID: 71.i

Client ID: SSTD120

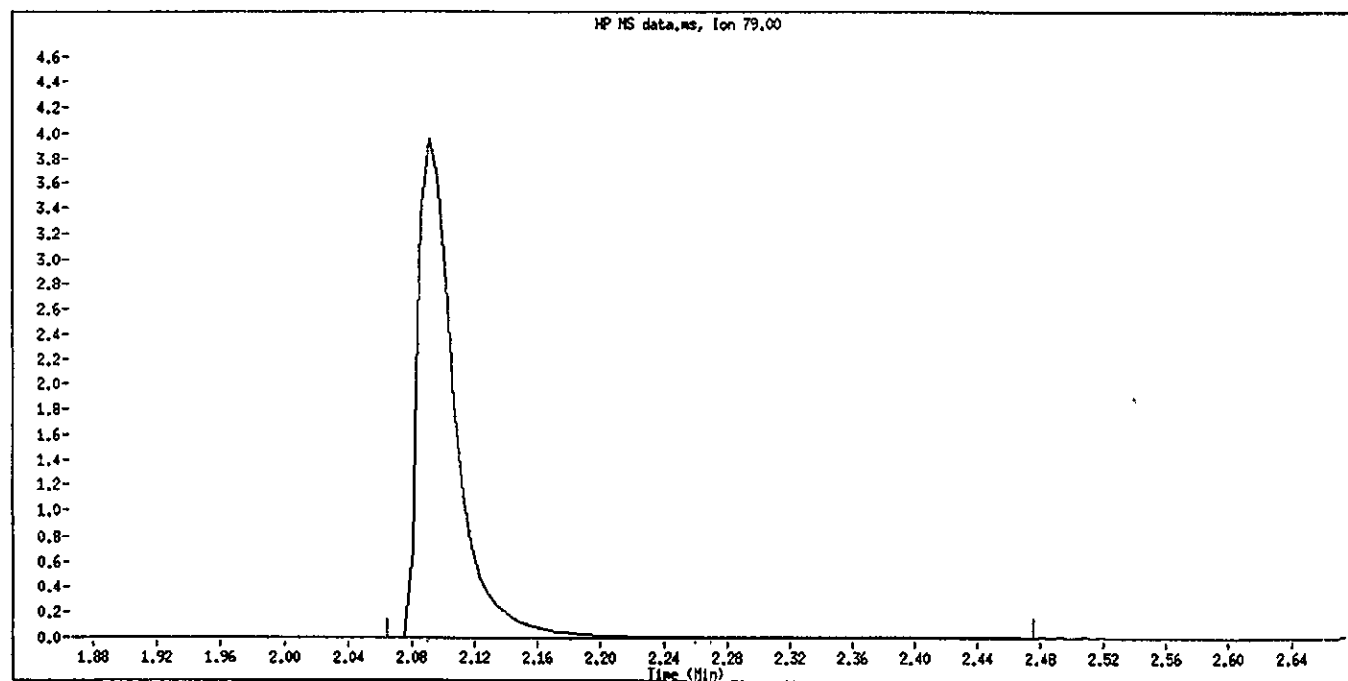
Compound Name: Pyridine

CAS #: 110-86-1

Report Date: 08/28/2000



Original Integration

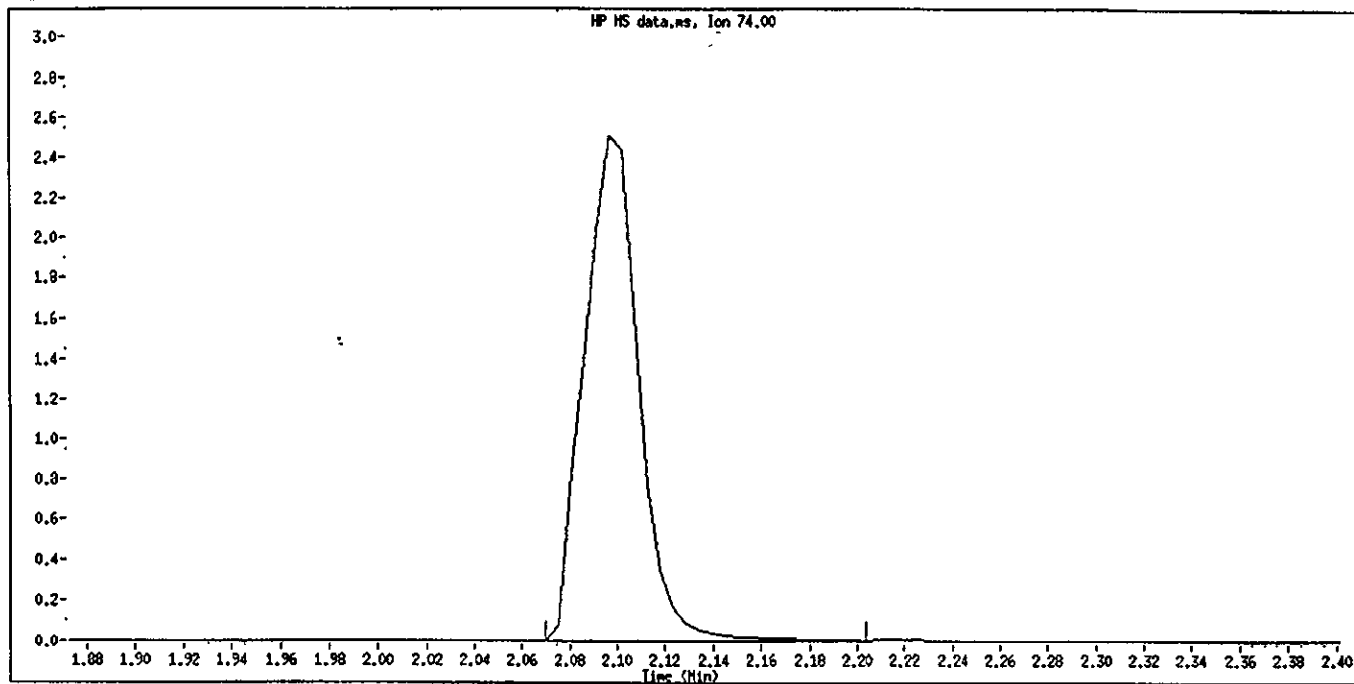


Manual Integration

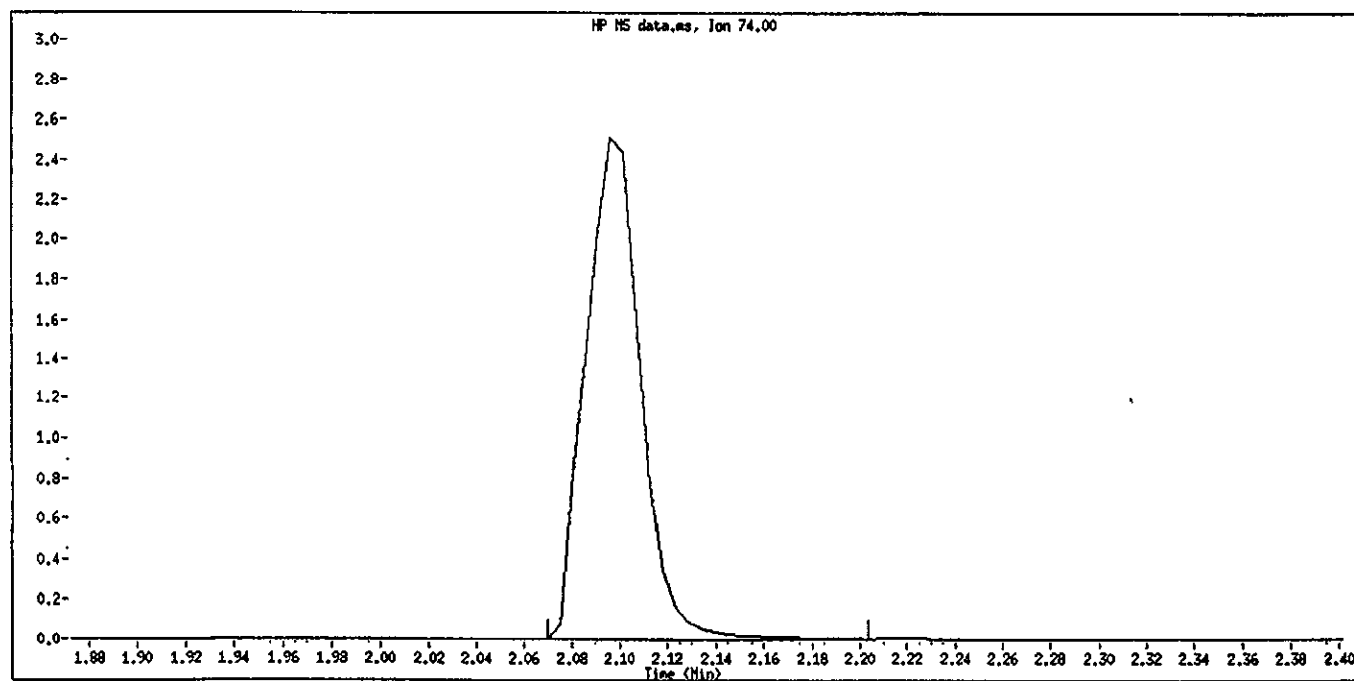
Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

Data File Name: S0825C04.D
Inj. Date and Time: 25-AUG-2000 17:10
Instrument ID: 71.1
Client ID SSTDI20
Compound Name N-Nitrosodimethylamine
CAS #: 62-75-9
Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

669 384

Data File Name: S0825C04.D

Inj Date and Time: 25-AUG-2000 17:10

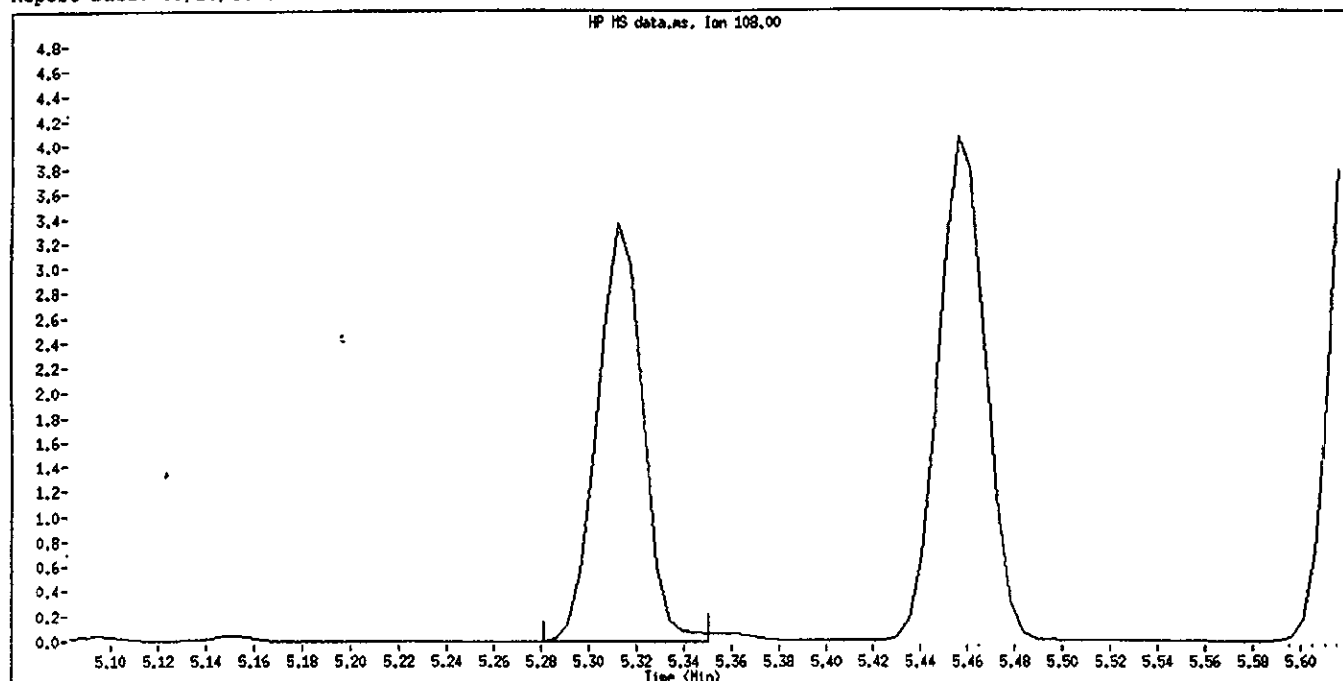
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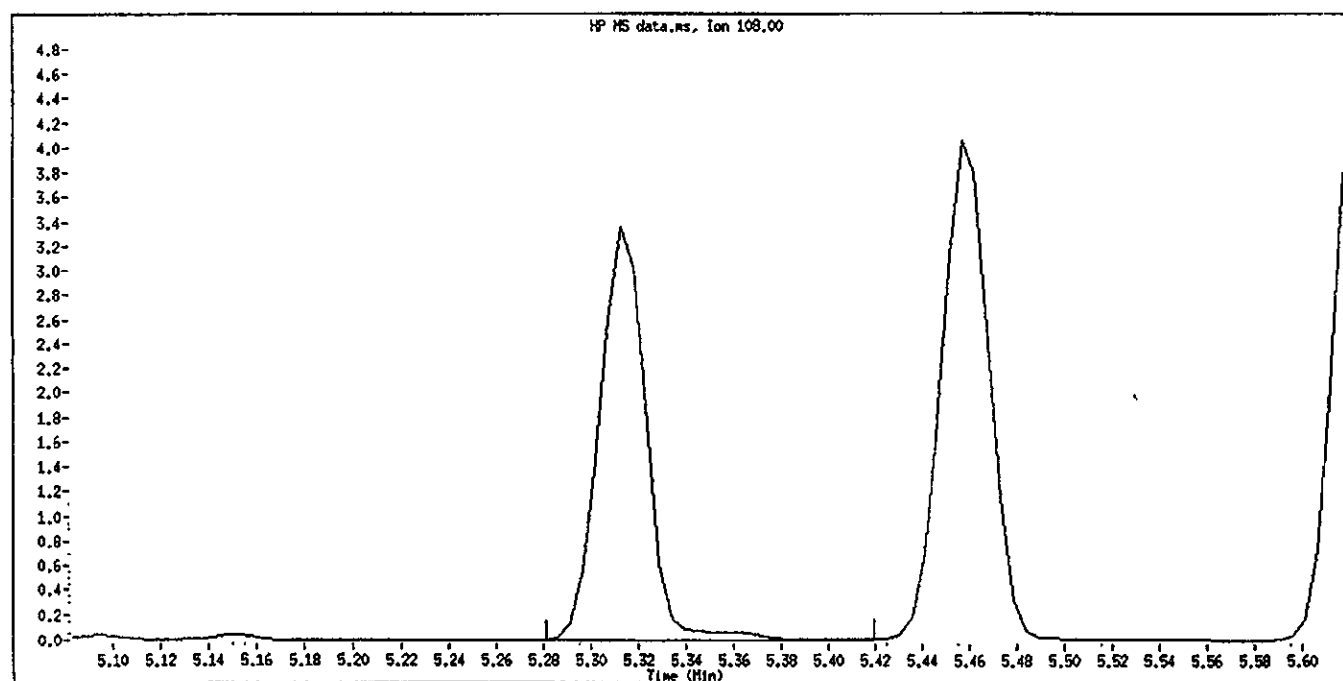
Compound Name: Benzyl Alcohol

CAS #: 100-51-6

Report Date: 08/28/2000



Original Integration

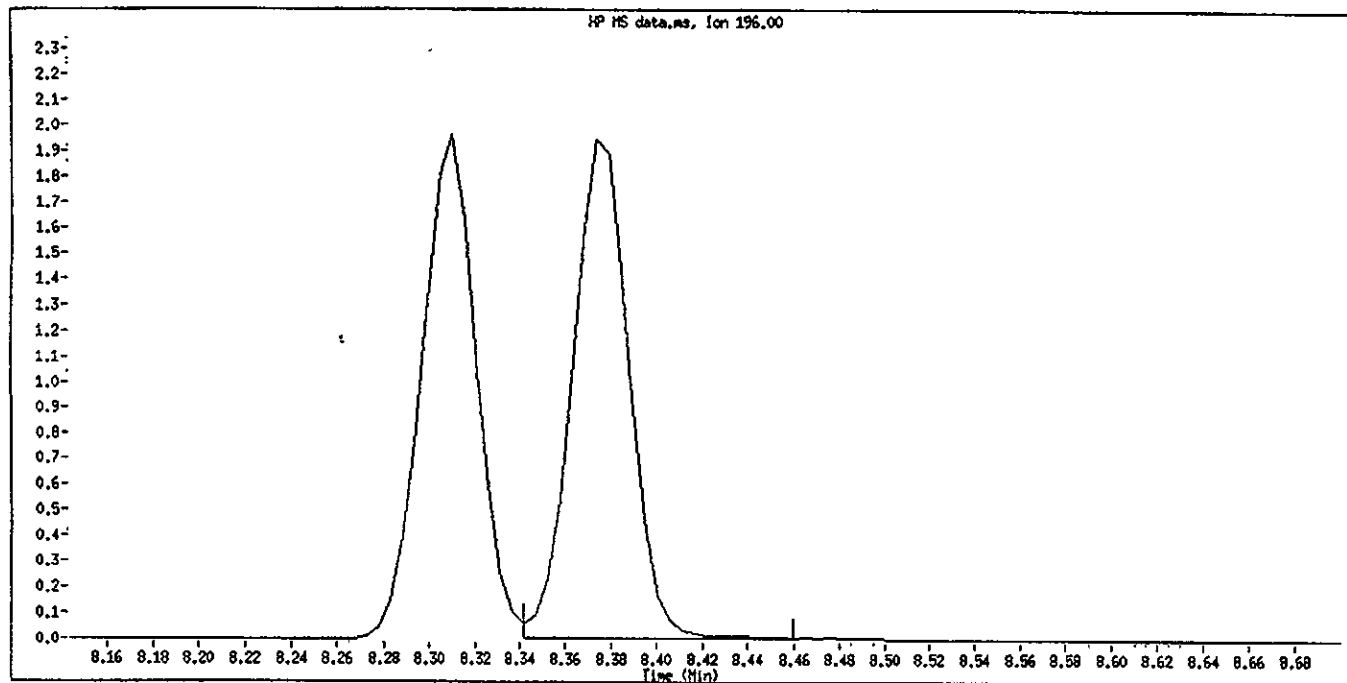


Manual Integration

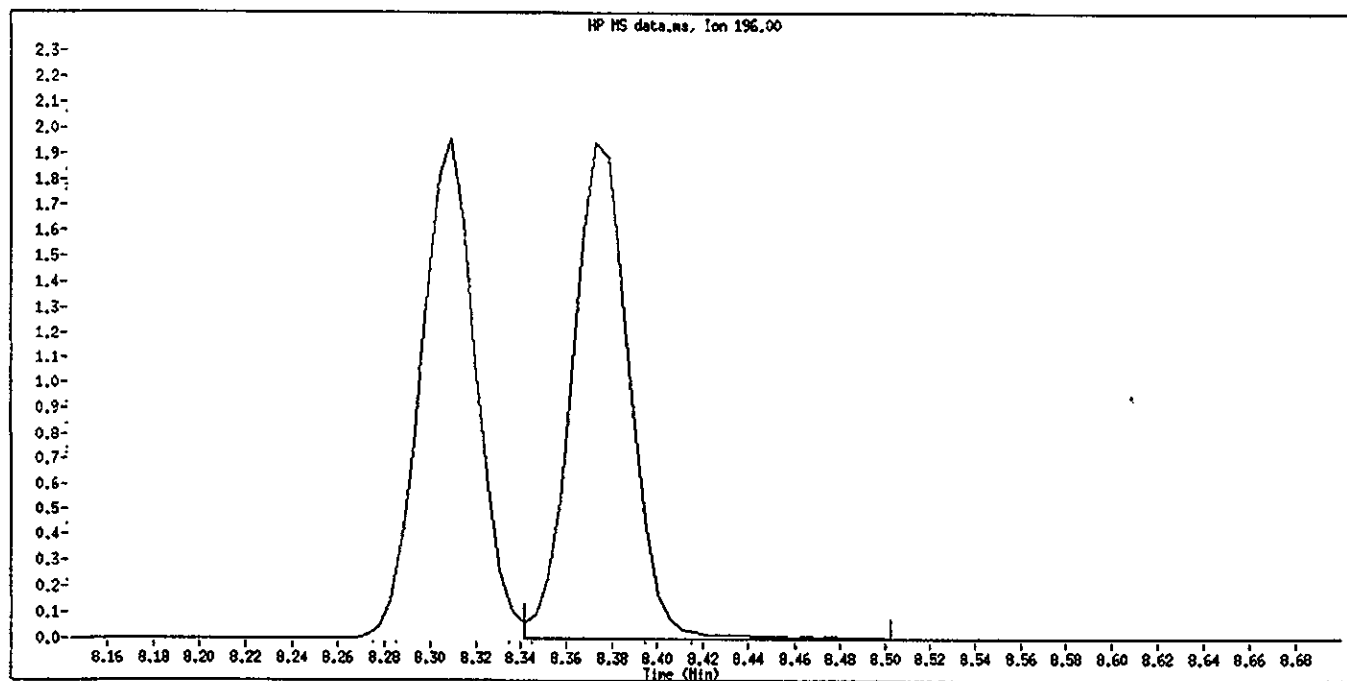
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Manual Integration Reason: Poor Chromatography

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Instrument ID: 71.i
Client ID: SSTDI20
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: Bachas
Manual Integration Reason Poor Chromatography

669 386

Data File Name: S0825C04.D

Inj. Date and Time: 25-AUG-2000 17:10

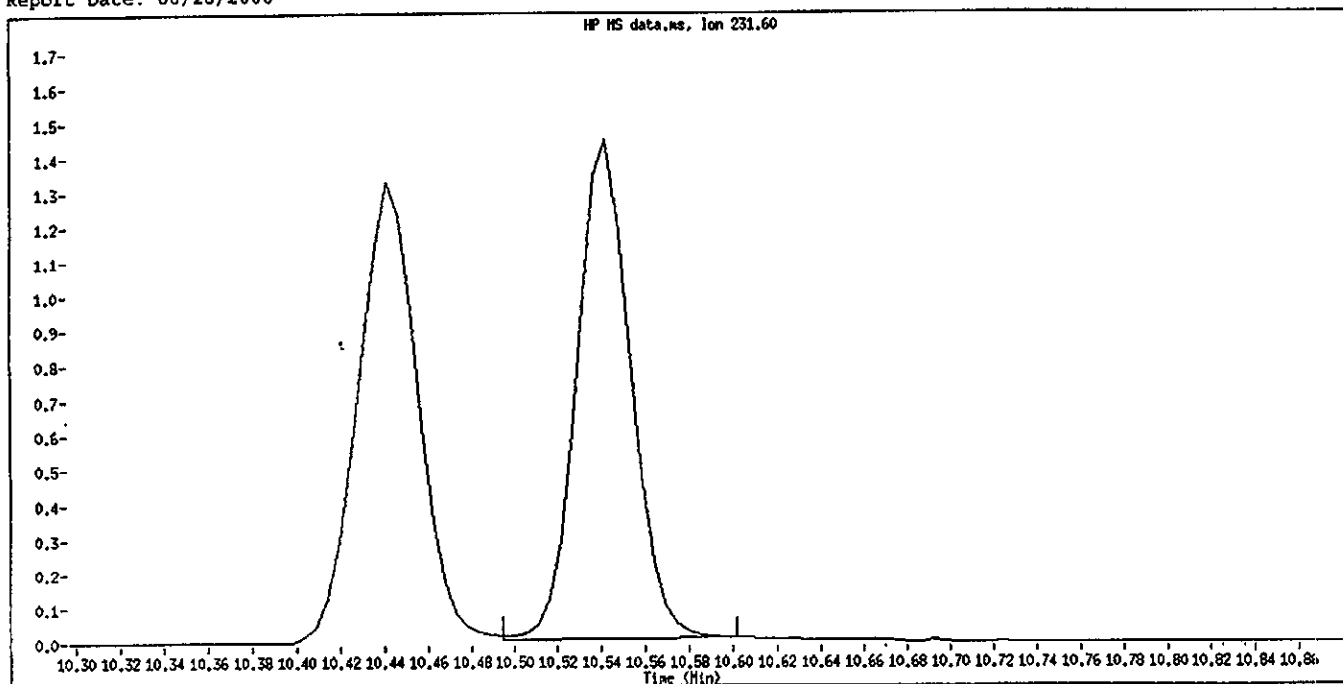
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Client ID: SSTD120

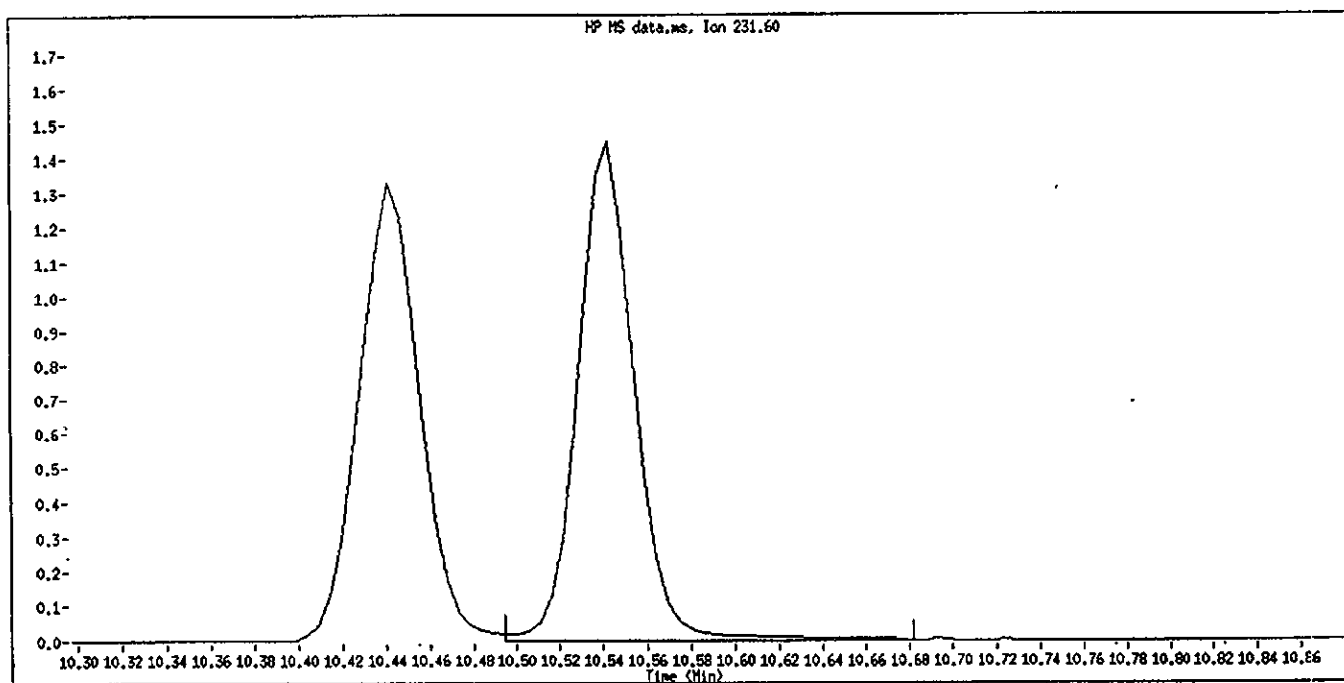
Compound Name 2,3,4,6-Tetrachlorophenol

CAS #: 58-90-2

Report Date: 08/28/2000



Original Integration



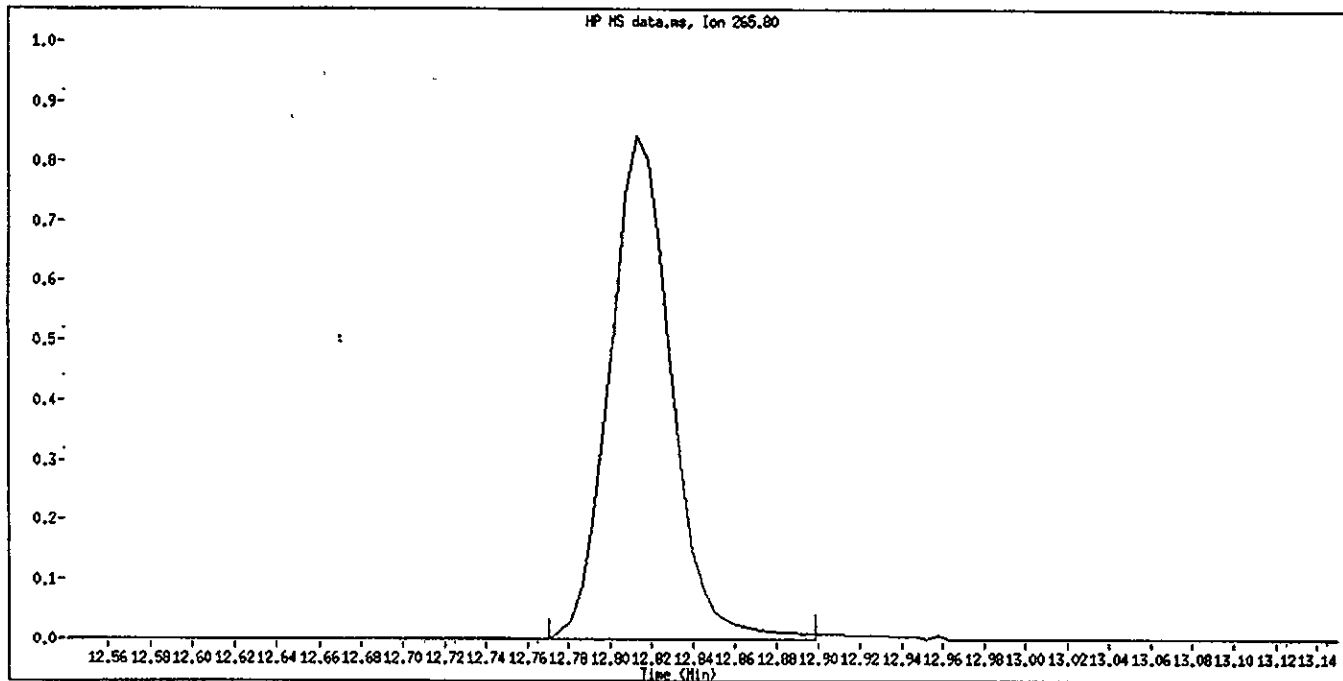
Manual Integration

Manually Integrated By: Bachas

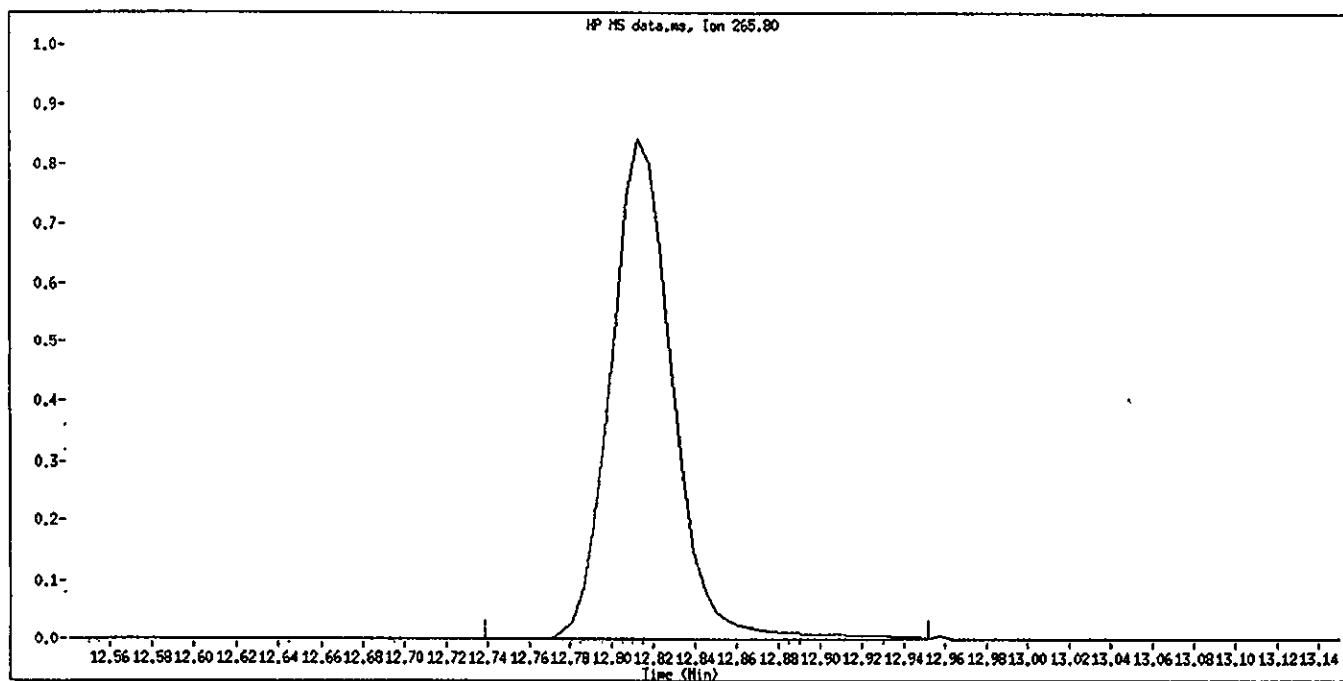
Manual Integration Reason: Poor Chromatography

Data File Name: S0825C04.D
Inj. Date and Time: 25-AUG-2000 17:10
Instrument ID: 71.i
Client ID: SSTD120
Compound Name: Pentachlorophenol
CAS #: 87-86-5
Report Date: 08/28/2000

669 387



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

669 388

Data File Name: S0825C04.D

Inj. Date and Time: 25-AUG-2000 17:10

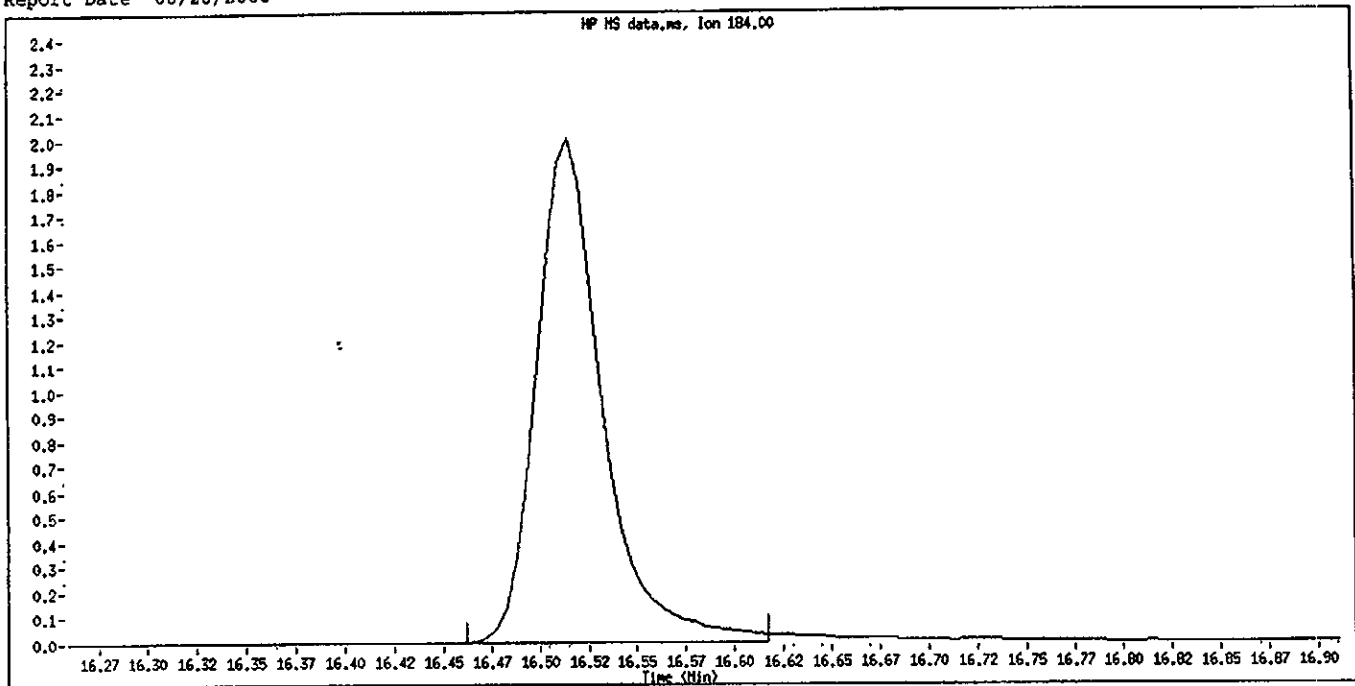
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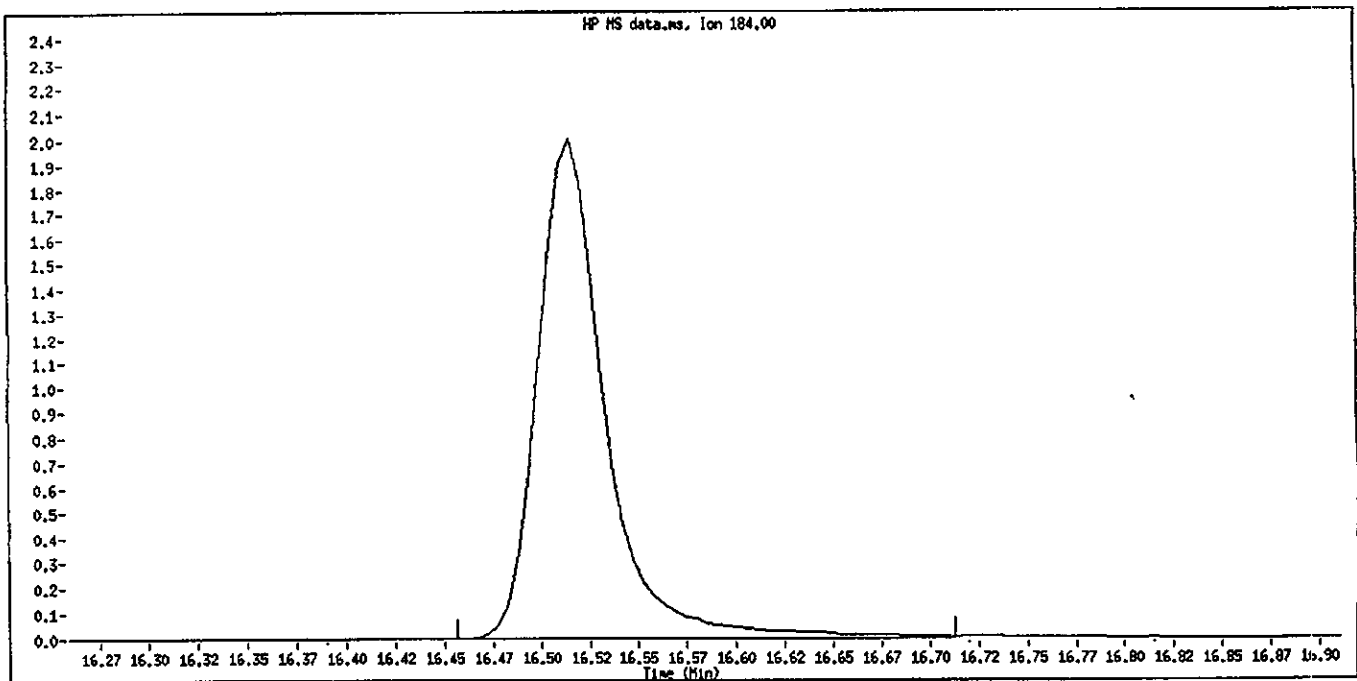
Compound Name Benzidine

CAS # 92-87-5

Report Date: 08/28/2000



Original Integration

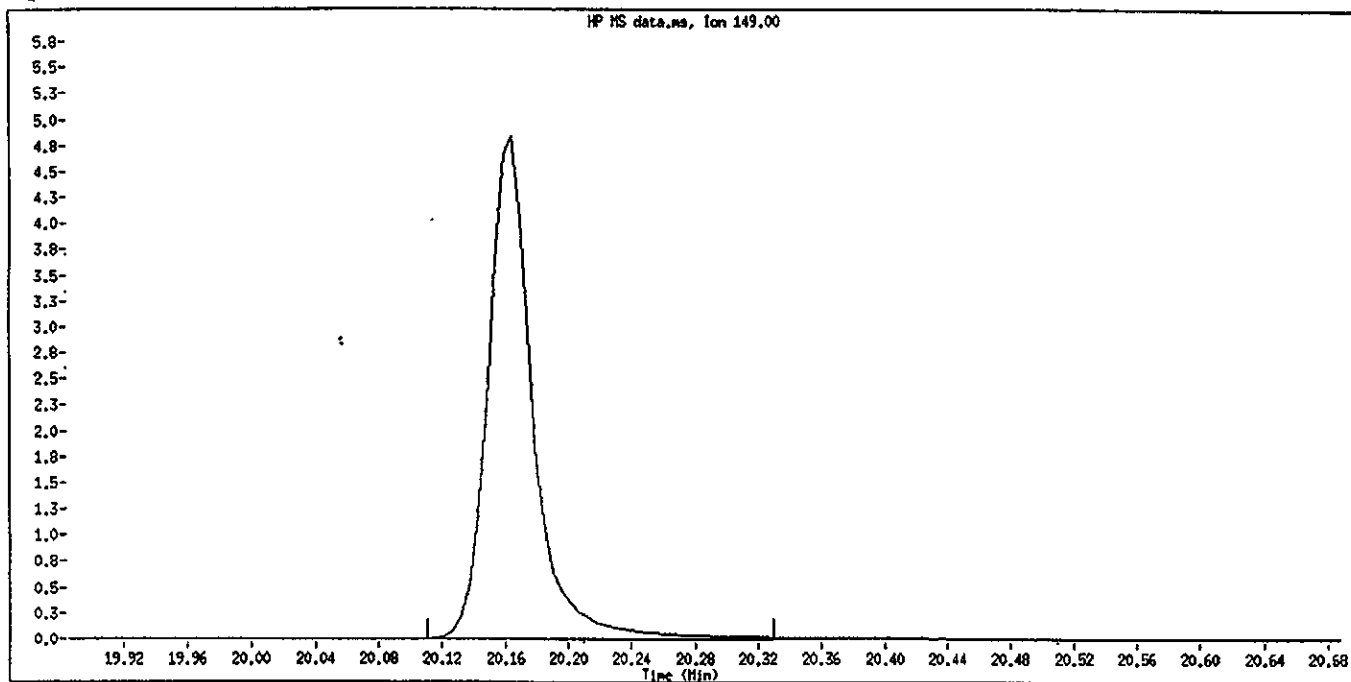


Manual Integration

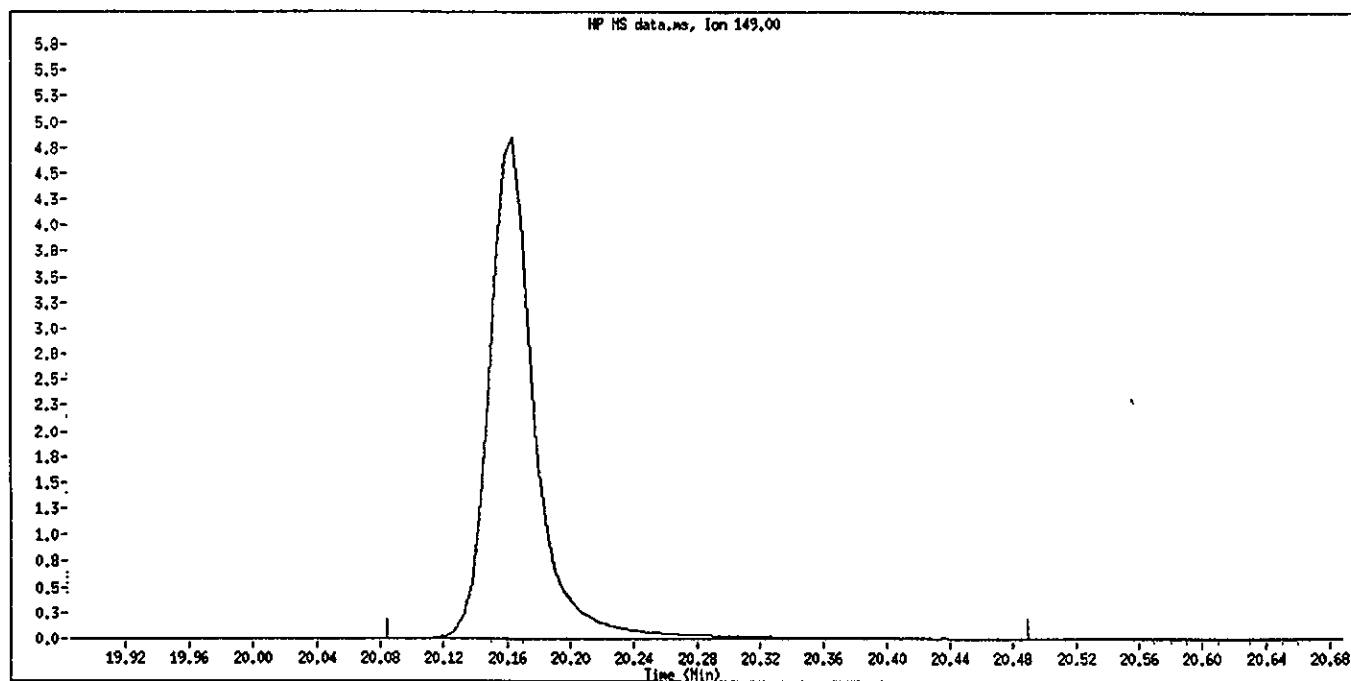
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Manual Integration Reason: Poor Chromatography

Data File Name: S0825C04.D
Inj Date and Time: 25-AUG-2000 17:10
Instrument ID: 71.i
Client ID: SSTDI20
Compound Name: bis(2-ethylhexyl)Phthalate
CAS #: 117-81-7
Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

669 390

Data File Name: S0825C04.D

Inj. Date and Time: 25-AUG-2000 17:10

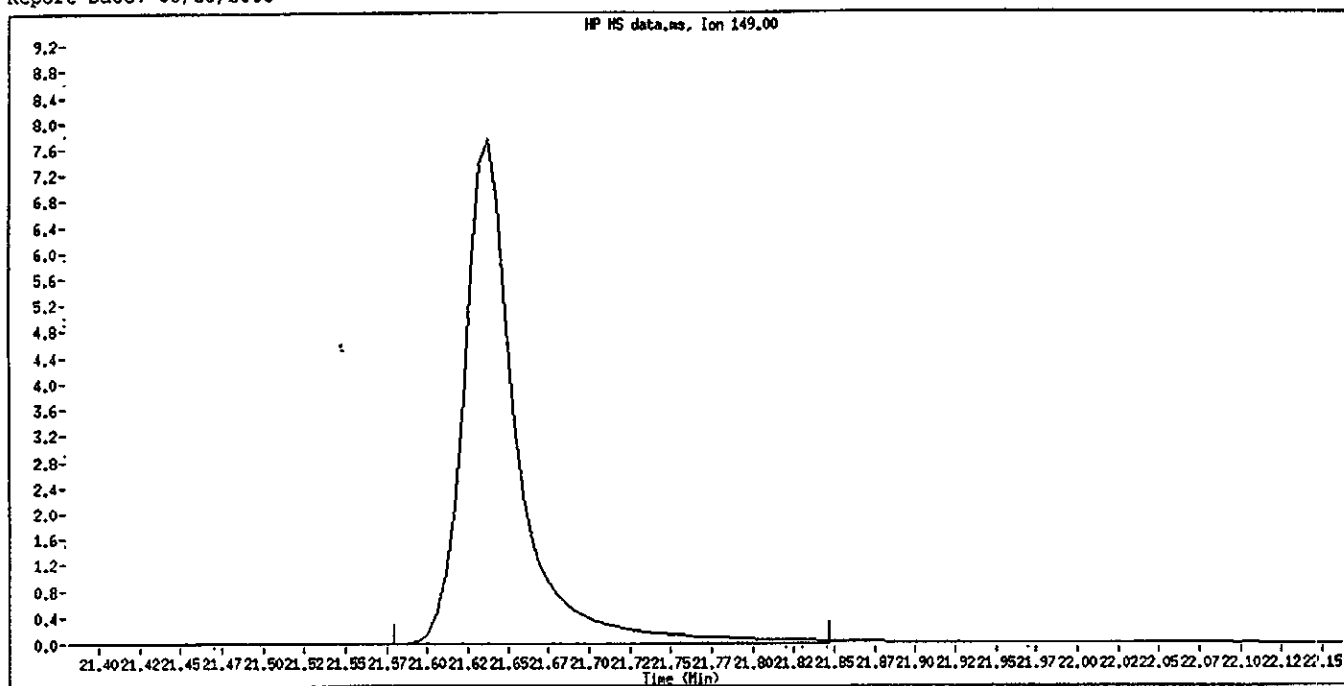
Instrument ID: 71.1

Client ID SSTD120

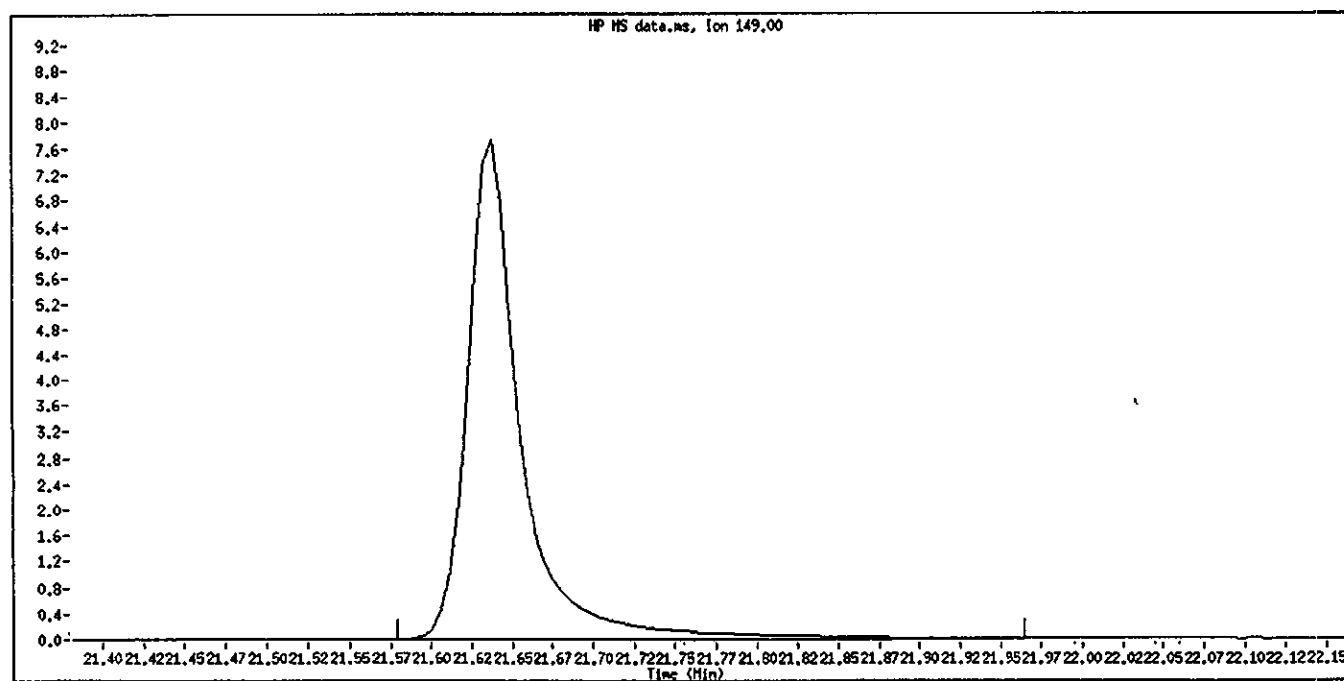
Compound Name: Di-n-octylphthalate

CAS #: 117-84-0

Report Date: 08/28/2000



Original Integration



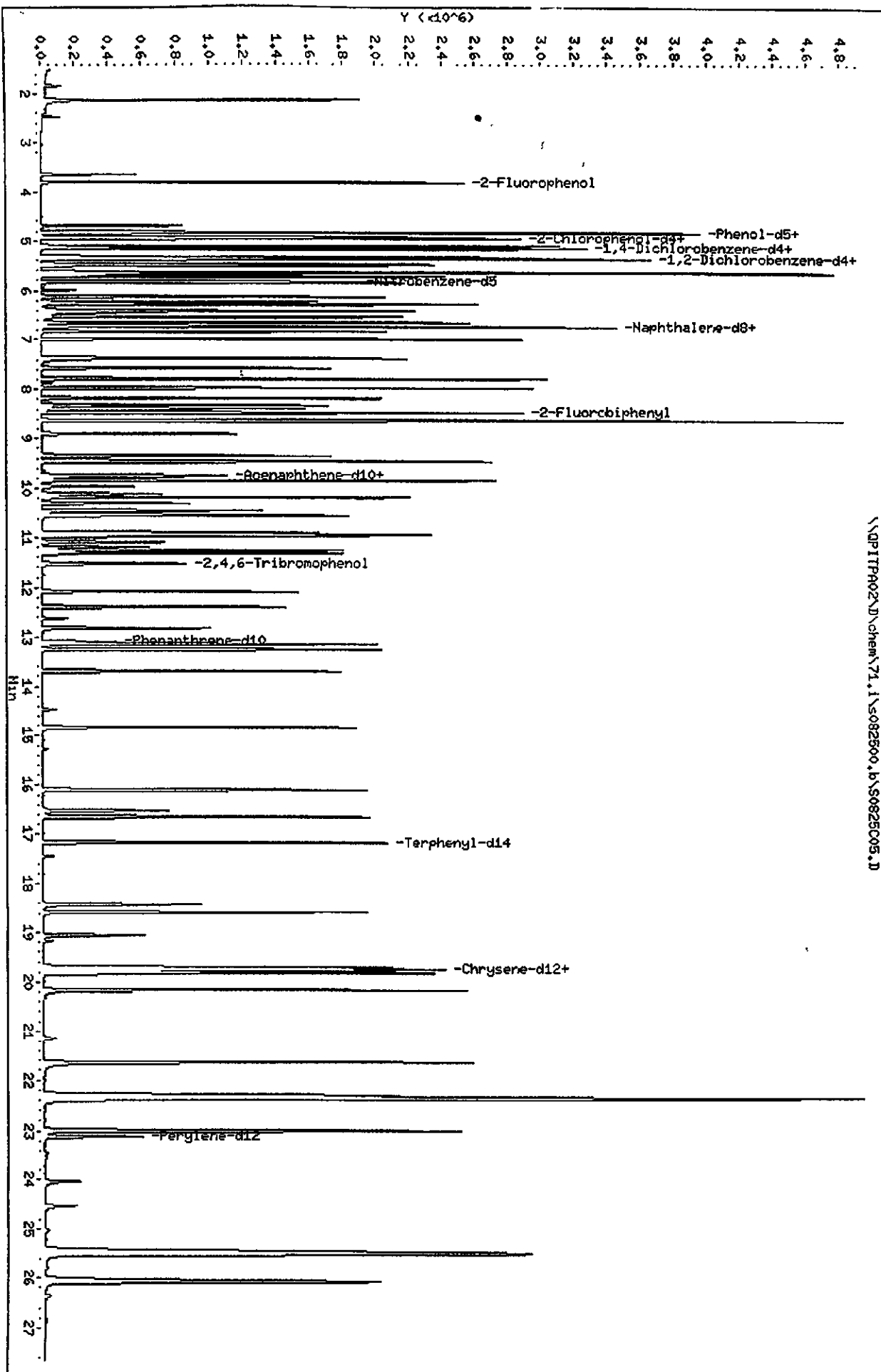
Manual Integration

Manually Integrated By BachaS

Manual Integration Reason: Unknown

Data File: \\QPI1P002\J\chem\71.1\5082500.b\50825005.D
 Date: 25-JUG-2000 18:51
 Client ID: SST1160
 Sample Info: sstd160(80 ug/ml) 194-188-7 8270/cip
 Column phase: Hp5-MS

Instrument: 71.1
 Operator: 045183
 Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082500.b\S0825C05.D
 Lab Smp Id: sstd160 Client Smp ID: SSTD160
 Inj Date : 25-AUG-2000 18:51
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd160(80 ug/ml) 194-188-7 8270/clp
 Misc Info : sstd160,s082500.b,8270clp.m,1-82701.sub,1,5
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s082500.b\8270clp.m
 Meth Date : 28-Aug-2000 08:48 bachas Quant Type: ISTD
 Cal Date : 25-AUG-2000 18:51 Cal File: S0825C05.D
 Als bottle: 99 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

Data File: \\QPITPA02\D\chem\71.i\s082500.b\S0825C05.D
Report Date: 28-Aug-2000 08:48

Page 2

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.401	6.401	(0.955)	1015954	160.000	153.85
51 2,4-Dichlorophenol	162	6.524	6.524	(0.974)	700952	160.000	152.46
52 Benzoic Acid	122	6.454	6.454	(0.963)	357550	160.000	225.13 (A)
53 1,2,4-Trichlorobenzene	180	6.641	6.641	(0.991)	832455	160.000	157.95
54 Naphthalene	128	6.727	6.727	(1.004)	2468138	160.000	146.43
55 4-Chloroaniline	127	6.828	6.828	(1.019)	981702	160.000	151.63
59 Hexachlorobutadiene	225	6.983	6.983	(1.042)	527887	160.000	162.68 (A)
62 4-Chloro-3-Methylphenol	107	7.565	7.565	(1.129)	641254	160.000	152.78
65 2-Methylnaphthalene	142	7.779	7.779	(1.161)	1607761	160.000	149.68
66 1-Methylnaphthalene	142	7.966	7.966	(1.189)	1524905	160.000	149.78
67 Hexachlorocyclopentadiene	237	8.174	8.174	(0.837)	607334	160.000	174.38 (A)
69 2,4,6-Trichlorophenol	196	8.319	8.319	(0.851)	480680	160.000	163.53 (A)
70 2,4,5-Trichlorophenol	196	8.383	8.383	(0.858)	492885	160.000	161.22 (AM)
73 2-Chloronaphthalene	162	8.639	8.639	(0.884)	1392969	160.000	152.96
77 2-Nitroaniline	65	8.901	8.901	(0.911)	371462	160.000	166.58 (A)
80 Dimethylphthalate	163	9.350	9.350	(0.957)	1446842	160.000	160.06 (A)
82 2,6-Dinitrotoluene	165	9.478	9.478	(0.970)	317883	160.000	166.38 (A)
83 Acenaphthylene	152	9.451	9.451	(0.967)	2120554	160.000	152.69
85 3-Nitroaniline	138	9.745	9.745	(0.997)	366505	160.000	169.25 (A)
86 Acenaphthene	153	9.841	9.841	(1.007)	1364385	160.000	154.31
87 2,4-Dinitrophenol	184	9.959	9.959	(1.019)	179901	160.000	218.05 (A)
89 4-Nitrophenol	109	10.113	10.113	(1.035)	166136	160.000	187.46 (A)
90 Dibenzofuran	168	10.178	10.178	(1.042)	1905554	160.000	155.72
91 2,4-Dinitrotoluene	165	10.300	10.300	(1.054)	403980	160.000	176.27 (A)
95 2,3,5,6-Tetrachlorophenol	232	10.450	10.450	(1.069)	383418	160.000	175.30 (A)
92 2,3,4,6-Tetrachlorophenol	232	10.552	10.552	(1.080)	388998	160.000	172.63 (AM)
96 2-Naphthylamine	143	10.525	10.525	(1.077)	983733	160.000	157.16
97 Diethylphthalate	149	10.893	10.893	(1.115)	1355287	160.000	167.03 (A)
98 Fluorene	166	10.931	10.931	(1.119)	1477980	160.000	157.44
99 4-Chlorophenyl-phenylether	204	10.968	10.968	(1.122)	760713	160.000	163.08 (A)
100 4-Nitroaniline	138	11.096	11.096	(1.136)	345120	160.000	182.88 (A)
102 4,6-Dinitro-2-methylphenol	198	11.198	11.198	(0.855)	229234	160.000	202.38 (A)
103 N-Nitrosodiphenylamine (1)	169	11.262	11.262	(0.860)	998407	160.000	157.54
104 1,2-Diphenylhydrazine	77	11.321	11.321	(0.865)	1403000	160.000	149.84
112 4-Bromophenyl-phenylether	248	12.079	12.079	(0.922)	419233	160.000	163.85 (A)
113 Hexachlorobenzene	284	12.389	12.389	(0.946)	453729	160.000	168.06 (A)
117 Pentachlorophenol	266	12.822	12.822	(0.979)	272443	160.000	188.41 (AM)
122 Phenanthrene	178	13.153	13.153	(1.004)	1834979	160.000	158.61
123 Anthracene	178	13.260	13.260	(1.013)	1893831	160.000	160.46 (A)
126 Carbazole	167	13.693	13.693	(1.046)	1754089	160.000	172.94 (A)
130 Di-n-Butylphthalate	149	14.836	14.836	(1.133)	2013109	160.000	183.85 (A)
135 Fluoranthene	202	16.102	16.102	(1.230)	1961555	160.000	186.28 (A)
136 Benzidine	184	16.519	16.519	(0.836)	782173	160.000	193.75 (A)
137 Pyrene	202	16.647	16.647	(0.843)	2052826	160.000	139.27
144 Butylbenzylphthalate	149	18.586	18.586	(0.941)	982263	160.000	175.26 (A)
149 3,3'-Dichlorobenzidine	252	19.761	19.761	(1.001)	1034193	160.000	179.63 (A)
150 Benzo (a) Anthracene	228	19.713	19.713	(0.998)	2303059	160.000	165.64 (A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----	-----
151 Chrysene	228	19.825	19.825	(1.004)	2192138	160.000	161.54 (A)
153 bis(2-ethylhexyl) Phthalate	149	20.162	20.162	(1.021)	1515875	160.000	162.24 (A)
155 Di-n-octylphthalate	149	21.642	21.642	(0.936)	2847444	160.000	166.53 (A)
157 Benzo (b) fluoranthene	252	22.320	22.320	(0.965)	2876851	160.000	176.77 (A)
158 Benzo (k) fluoranthene	252	22.379	22.379	(0.968)	3336720	160.000	164.72 (A)
159 7,12-dimethylbenz[a]anthracen	256	22.379	22.379	(0.968)	1526749	160.000	175.27 (A)
167 Benzo (a) pyrene	252	23.015	23.015	(0.995)	2812270	160.000	172.40 (A)
169 Indeno(1,2,3-cd)pyrene	276	25.467	25.467	(1.101)	4147799	160.000	170.42 (A)
170 Dibenz (a,h)anthracene	278	25.515	25.515	(1.104)	3704782	160.000	171.29 (A)
171 Benzo (g,h,i) perylene	276	26.086	26.086	(1.128)	3454242	160.000	168.10 (A)
\$ 172 Nitrobenzene-d5	82	5.813	5.813	(0.868)	909888	160.000	155.45
\$ 173 2-Fluorobiphenyl	172	8.468	8.468	(0.867)	1711847	160.000	155.86
\$ 174 Terphenyl-d14	244	17.176	17.176	(0.870)	1654563	160.000	149.29
\$ 175 Phenol-d5	99	4.814	4.814	(0.936)	1125103	160.000	148.79
\$ 176 2-Fluorophenol	112	3.799	3.799	(0.738)	946857	160.000	154.55
\$ 177 2,4,6-Tribromophenol	330	11.524	11.524	(0.880)	221312	160.000	175.01 (A)
\$ 178 2-Chlorophenol-d4	132	4.937	4.937	(0.960)	853265	160.000	149.60
\$ 179 1,2-Dichlorobenzene-d4	152	5.354	5.354	(1.040)	643820	160.000	152.22

QC Flag Legend

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

Data File Name: S0825C05.D

Inj. Date and Time: 25-AUG-2000 18:51

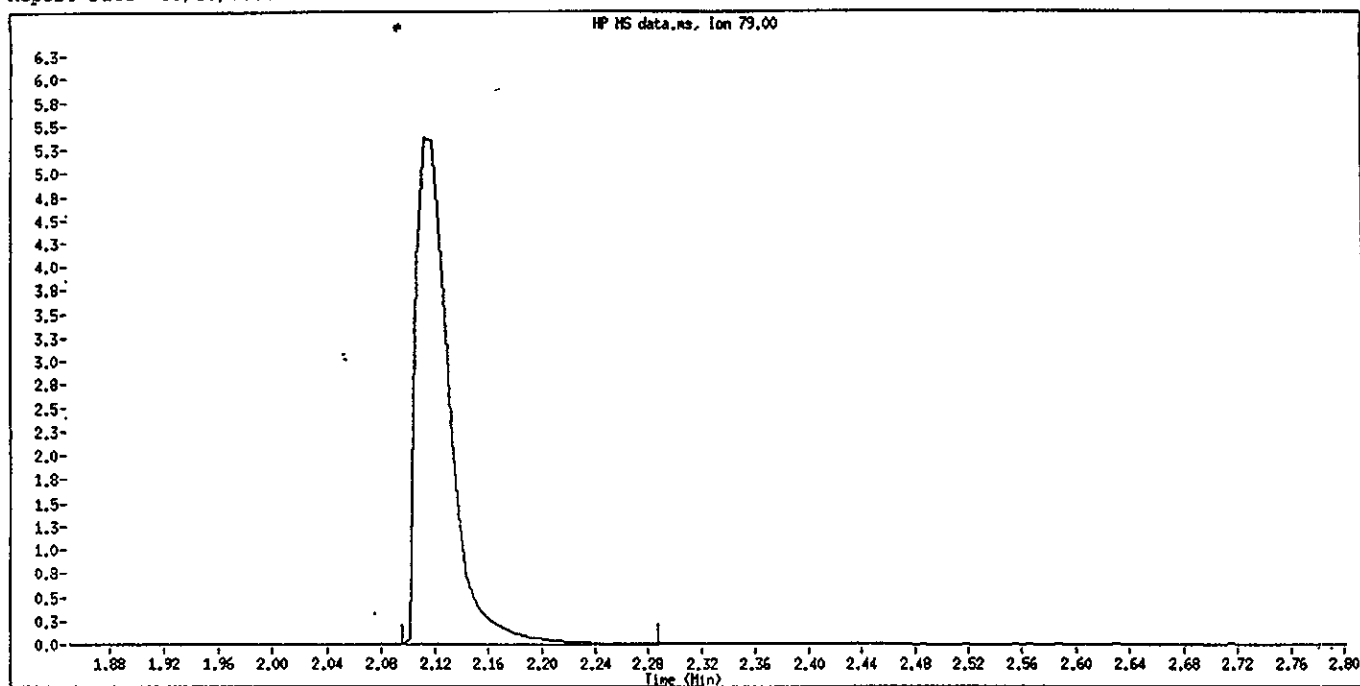
Instrument ID: 71.1

Client ID: SSTD160

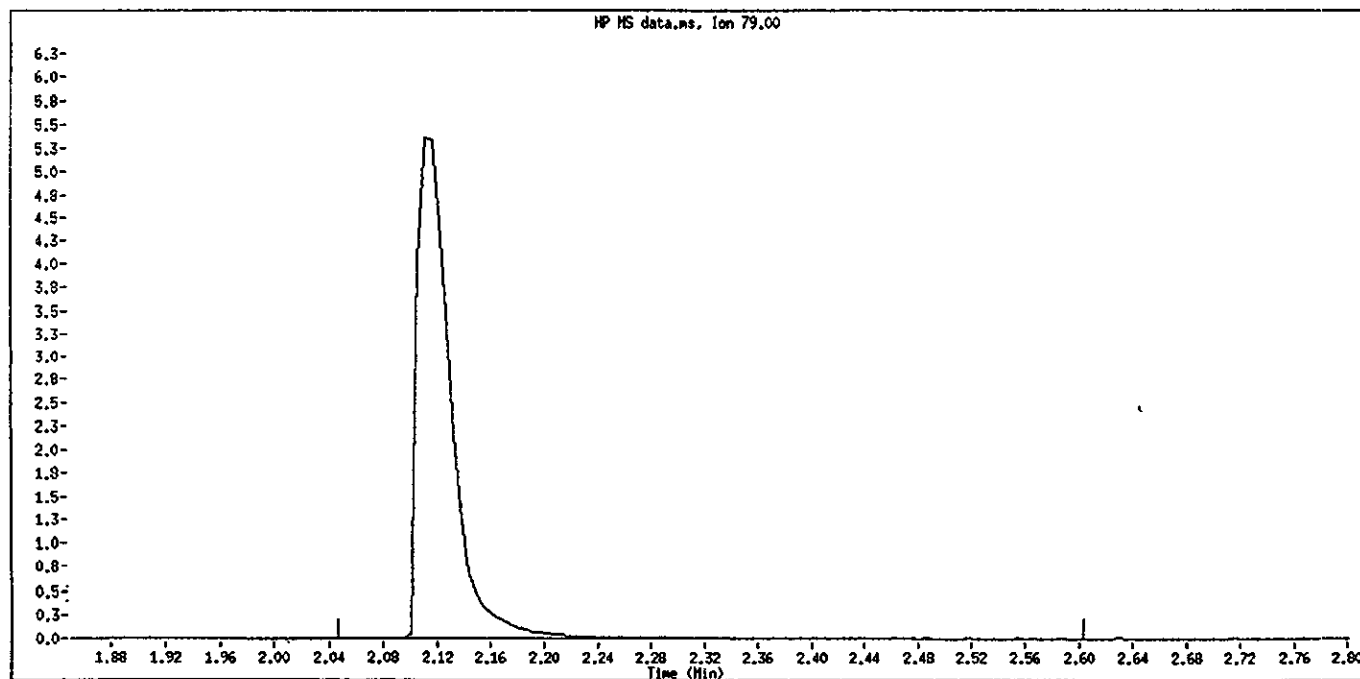
Compound Name: Pyridine

CAS #: 110-86-1

Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

669 396

Data File Name S0825C05.D

Inj. Date and Time: 25-AUG-2000 18 51

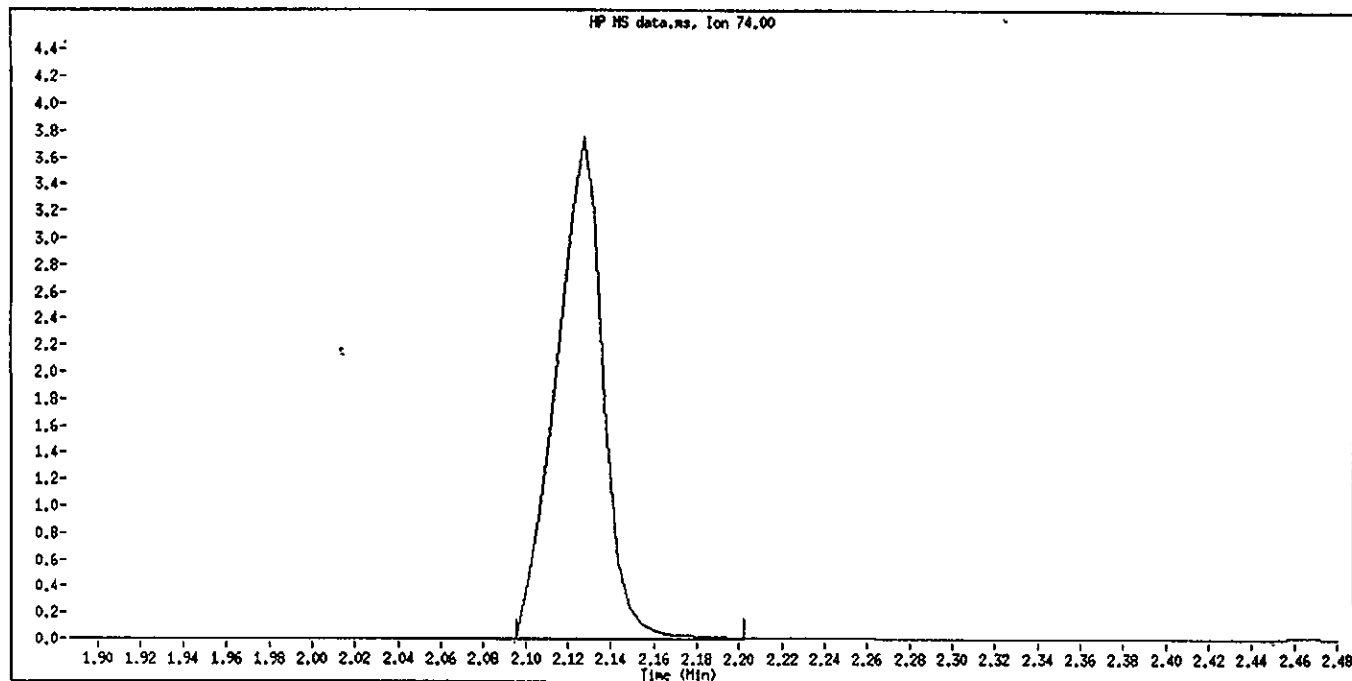
Instrument ID: 71 i

Client ID: SST0160

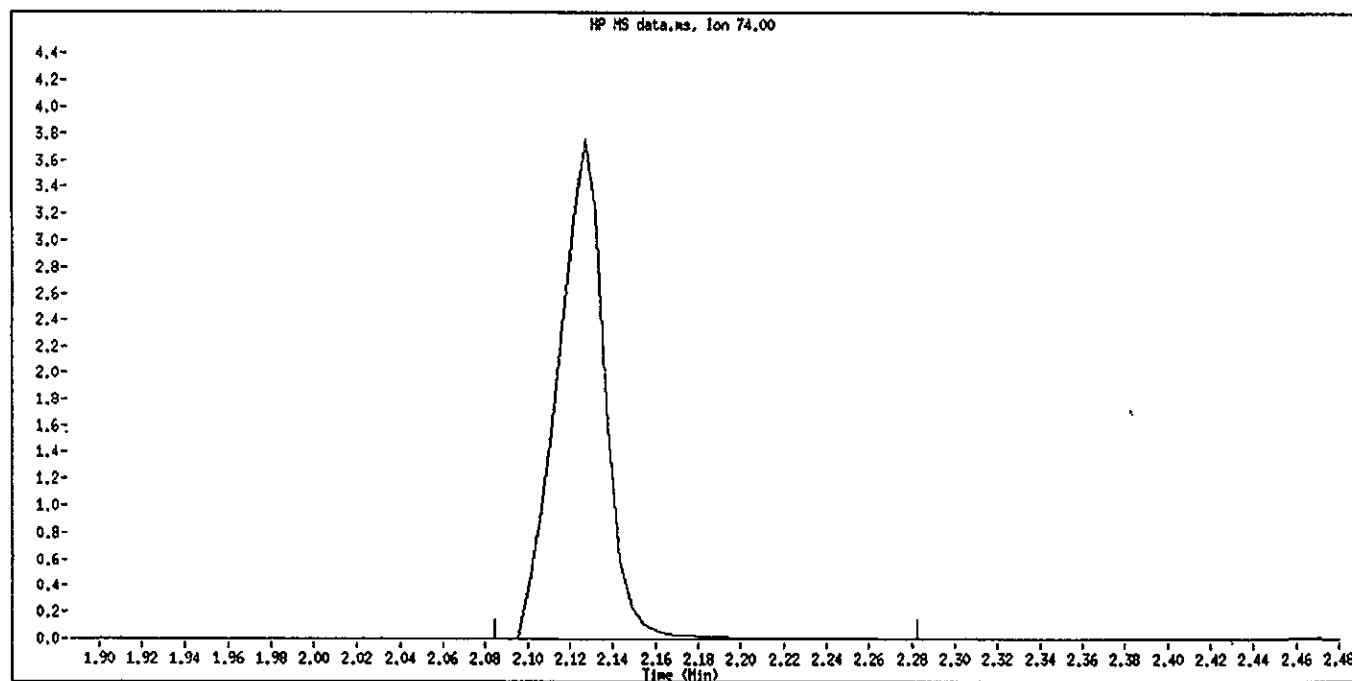
Compound Name: N-Nitrosodimethylamine

CAS #: 62-75-9

Report Date: 08/28/2000



Original Integration



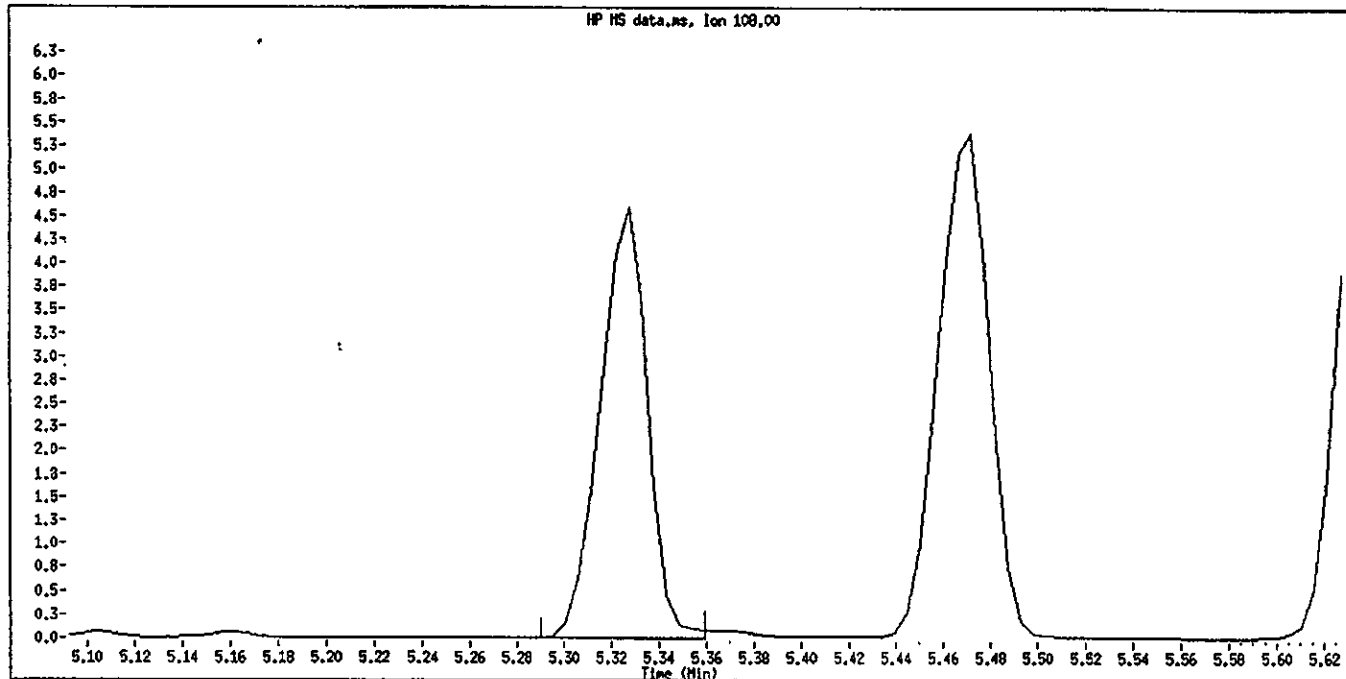
Manual Integration

Manually Integrated By: BachaS

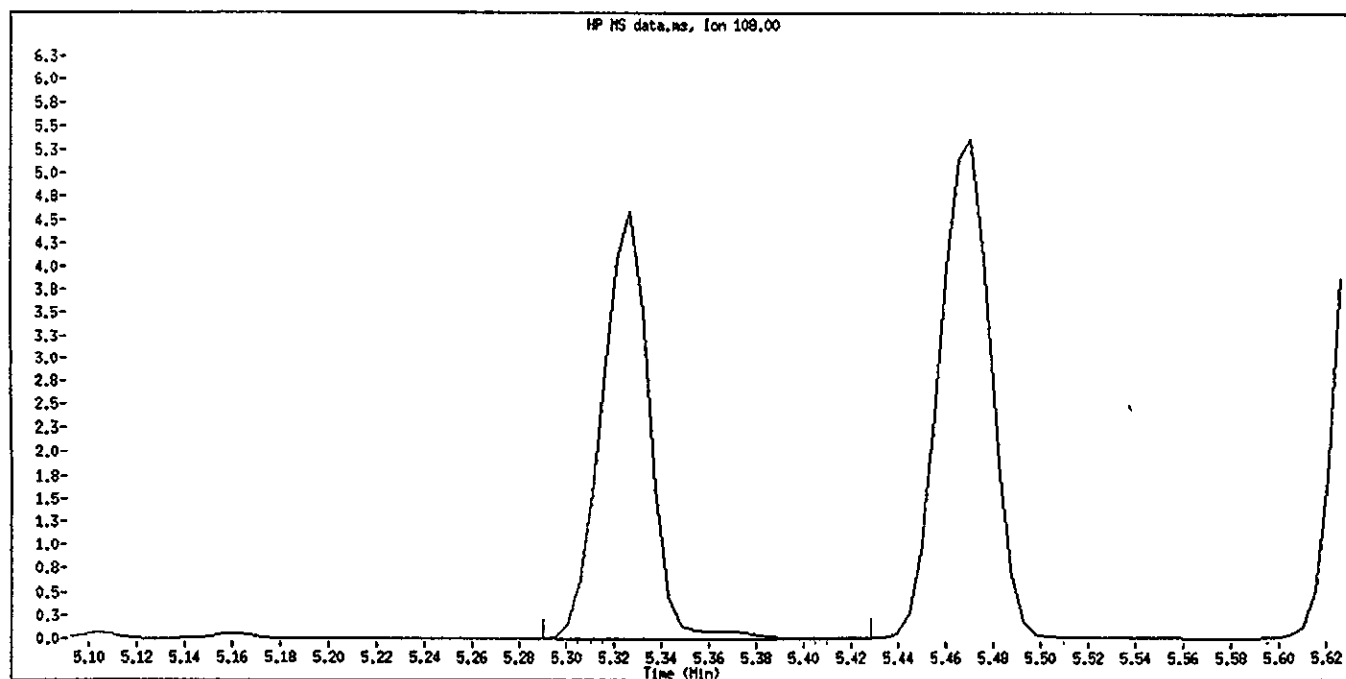
Manual Integration Reason: Unknown

Data File Name: S0825C05.D
Inj. Date and Time: 25-AUG-2000 18:51
Instrument ID: 71.i
Client ID: SSTD160
Compound Name: Benzyl Alcohol
CAS #: 100-51-6
Report Date: 08/28/2000

669 397



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 398

Data File Name: S0825C05.D

Inf. Date and Time: 25-AUG-2000 18:51

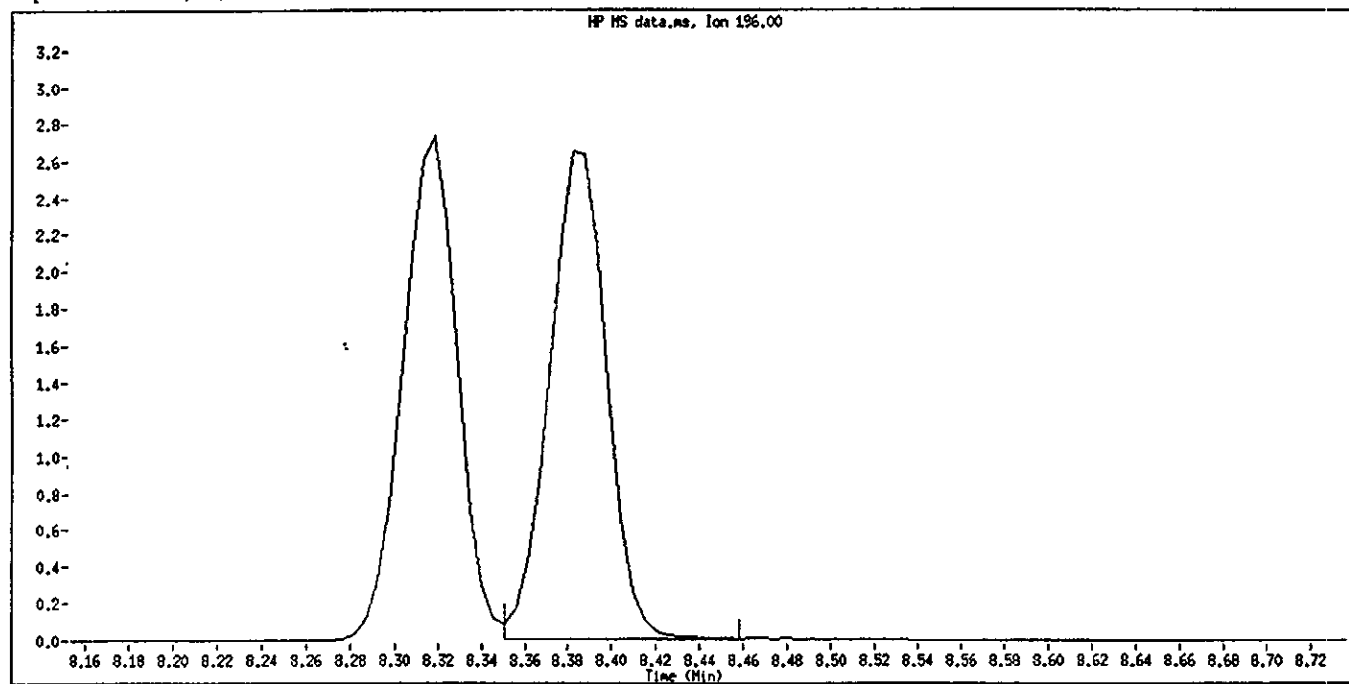
Instrument ID: 71.i

Client ID: SSTD160

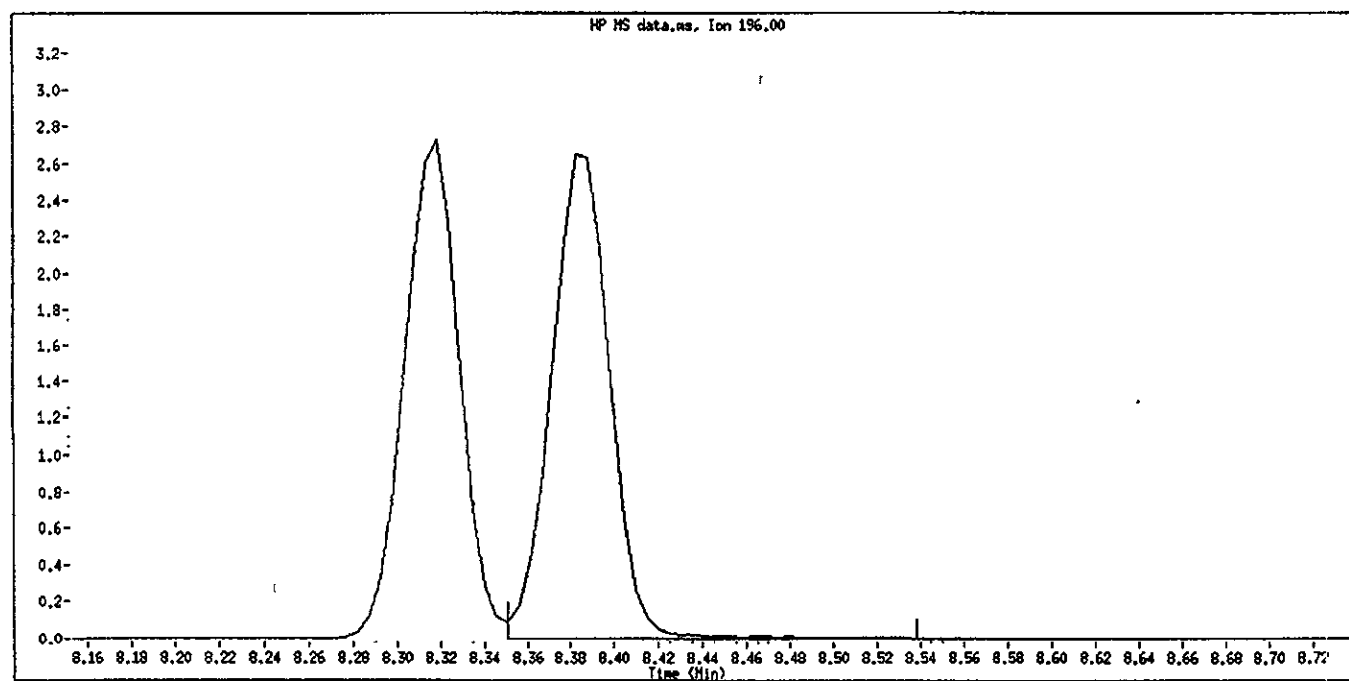
Compound Name: 2,4,5-Trichlorophenol

CAS #: 95-95-4

Report Date: 08/28/2000



Original Integration

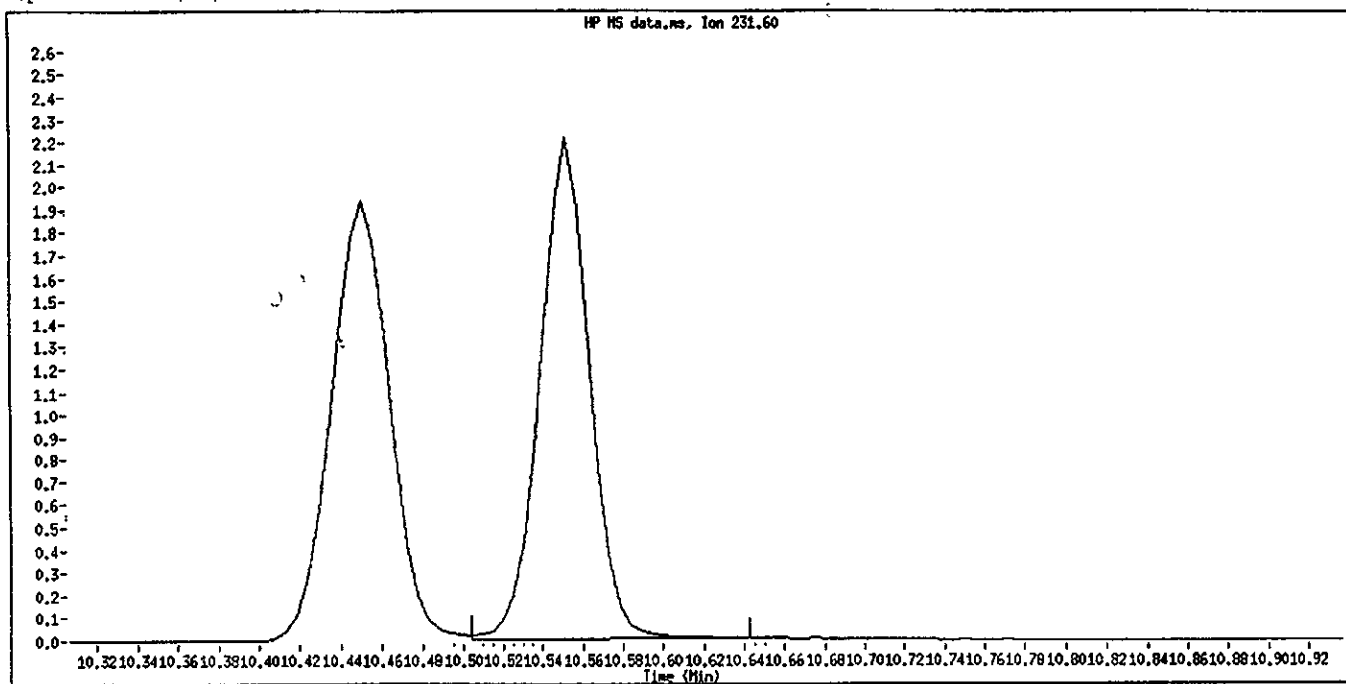


Manual Integration

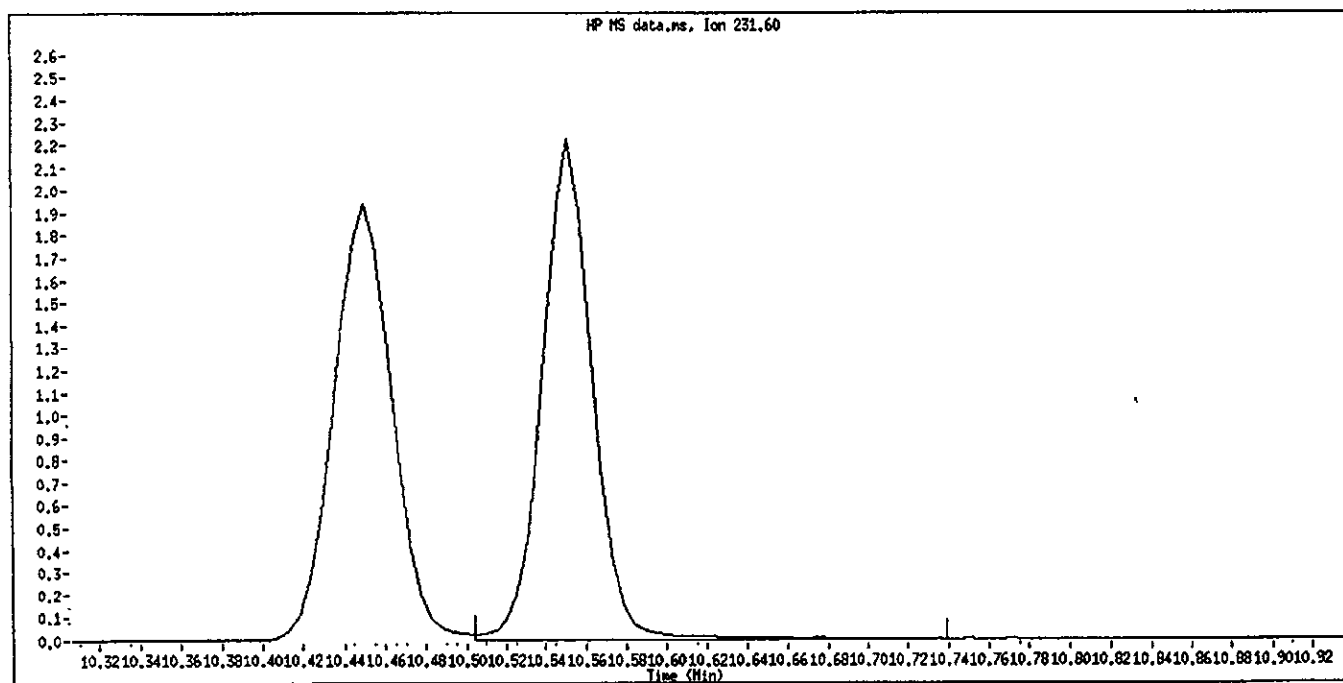
Manually Integrated By BachaS

Manual Integration Reason Unknown

Data File Name: S0825C05.D
Inj. Date and Time: 25-AUG-2000 18:51
Instrument ID: 71.1
Client ID: SSTDL60
Compound Name: 2,3,4,6-Tetrachlorophenol
CAS #: 58-90-2
Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 400

Data File Name: S0825C05.D

Inj. Date and Time 25-AUG-2000 18:51

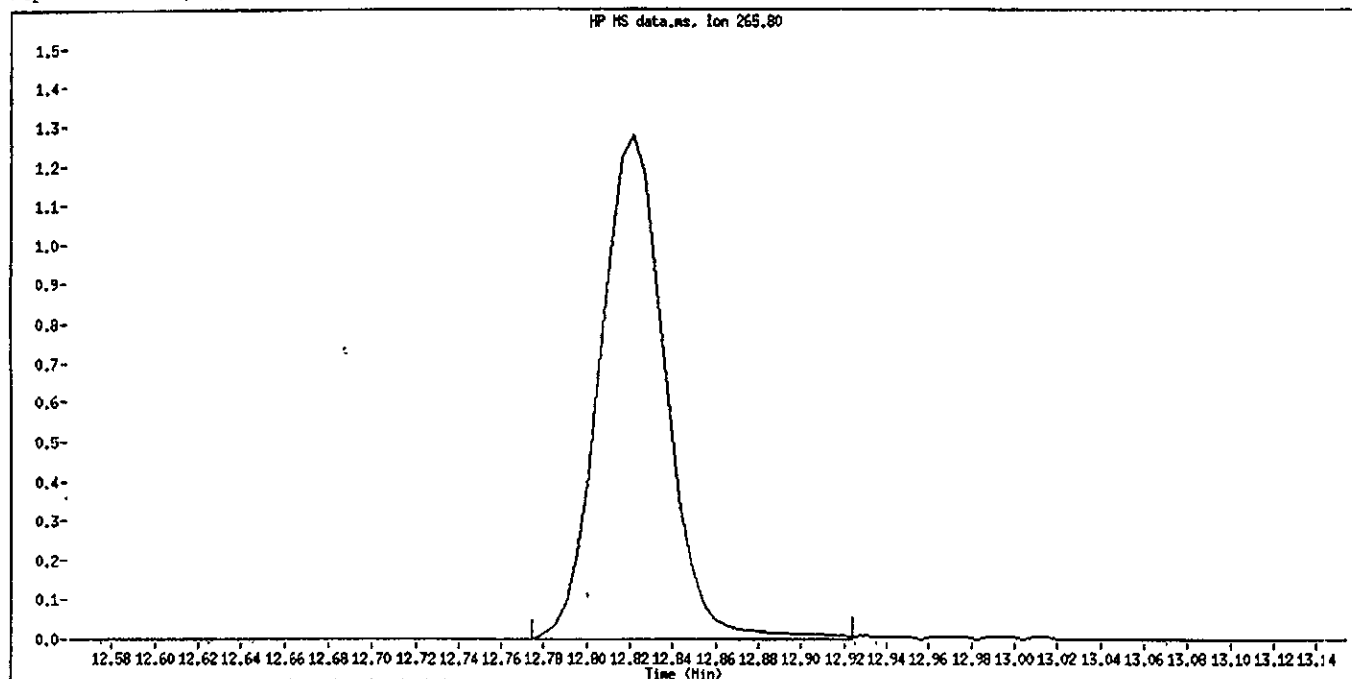
Instrument ID: 71.1

Client ID: SST0160

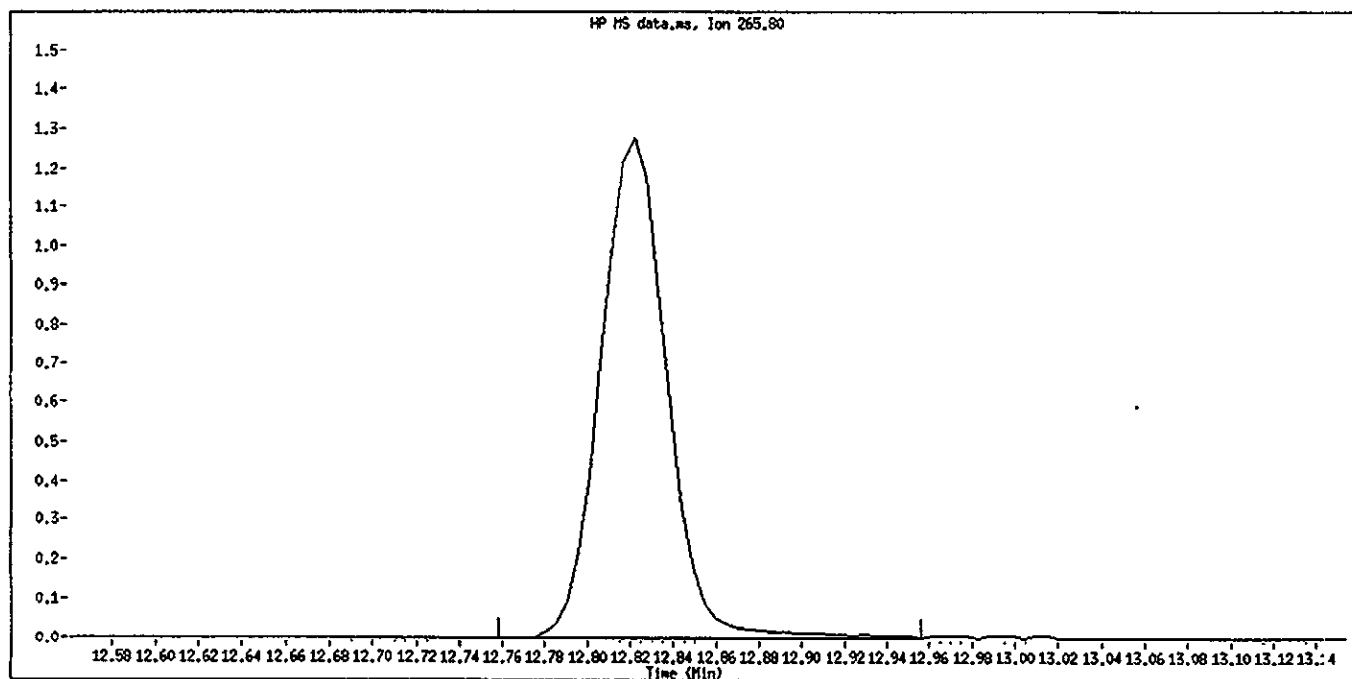
Compound Name: Pentachlorophenol

CAS # 87-86-5

Report Date: 08/28/2000



Original Integration



Manual Integration

Manually Integrated By: Bachas

Manual Integration Reason: Poor Chromatography

**GC/MS SEMIVOLATILE
QC DATA**

Date : 23-AUG-2000 19:17

Client ID: DFTPP02

Instrument: 71.i

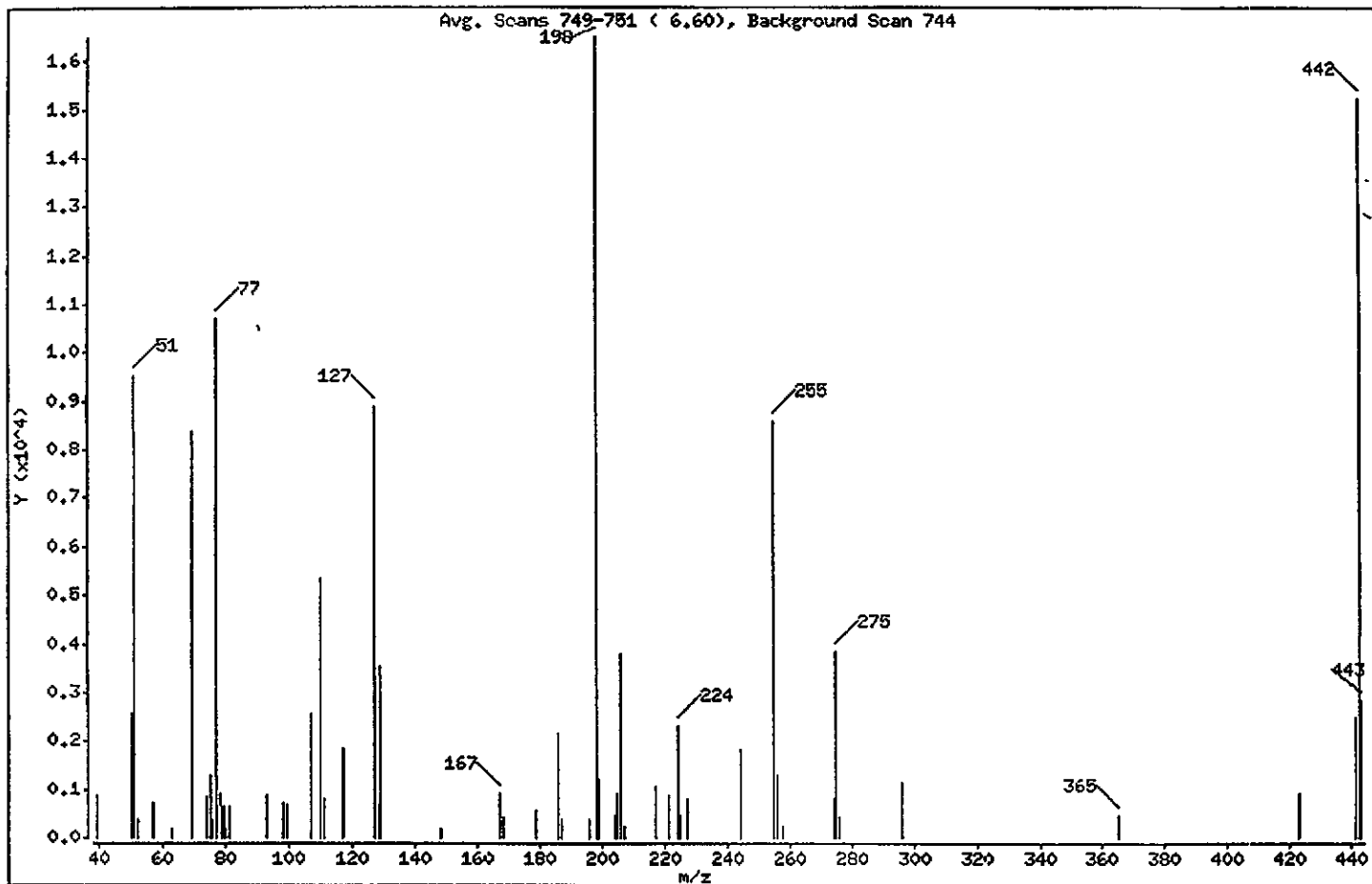
Sample Info: DFTPP050 (25ppb) 194-158-6

Operator: 045183

Column phase:

Column diameter: 2.00

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

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

Page 4

Date : 23-AUG-2000 19:17

Client ID: DFTPP02

Instrument: 71.1

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

Operator: 045183

Column phase:

Column diameter: 2.00

Data File: S0823DFT.D

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

Location of Maximum: 198.00

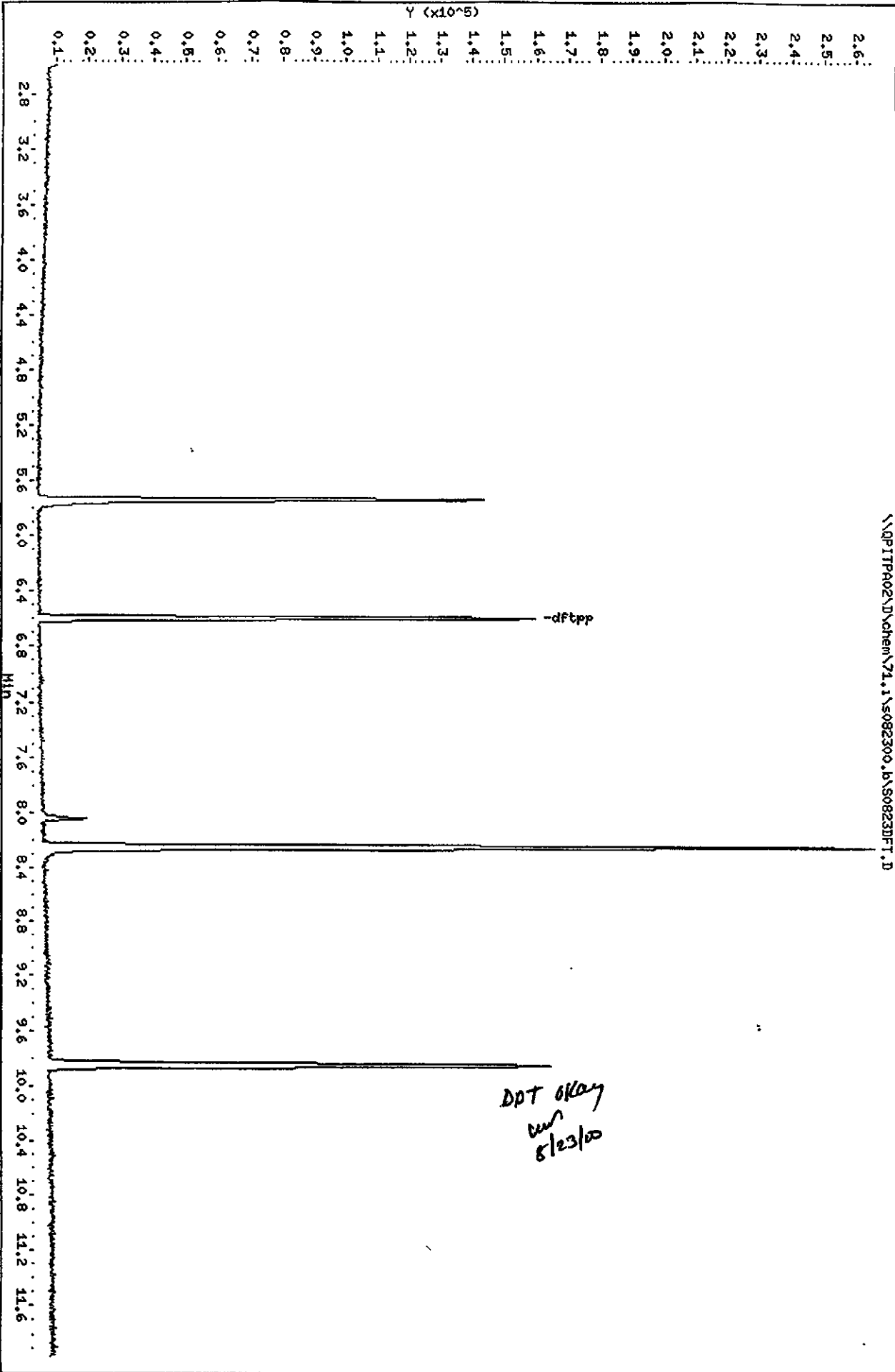
Number of points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	876	93.00	877	187.00	387	256.00	1276
50.00	2583	98.00	722	196.00	373	258.00	211
51.00	9530	99.00	682	198.00	16504	274.00	785
52.00	383	107.00	2581	199.00	1200	275.00	3824
57.00	714	110.00	5345	204.00	453	276.00	418
63.00	177	111.00	784	205.00	921	296.00	1141
69.00	8396	117.00	1868	206.00	3807	365.00	441
74.00	839	127.00	8885	207.00	219	423.00	910
75.00	1297	128.00	679	217.00	1077	441.00	2486
76.00	381	129.00	3514	221.00	867	442.00	15217
77.00	10701	148.00	182	224.00	2321	443.00	2849
78.00	914	167.00	893	225.00	461		
79.00	644	168.00	411	227.00	801		
80.00	180	179.00	551	244.00	1821		
81.00	662	186.00	2150	255.00	8578		

Data File: \\QPI1PA02\Nchem\71.1\5082300.b\5082300FT.D
 Date: 23-AUG-2000 19:17
 Client ID: DFTPP02
 Sample Info: DFTPP050 (25ppb) 194-158-6

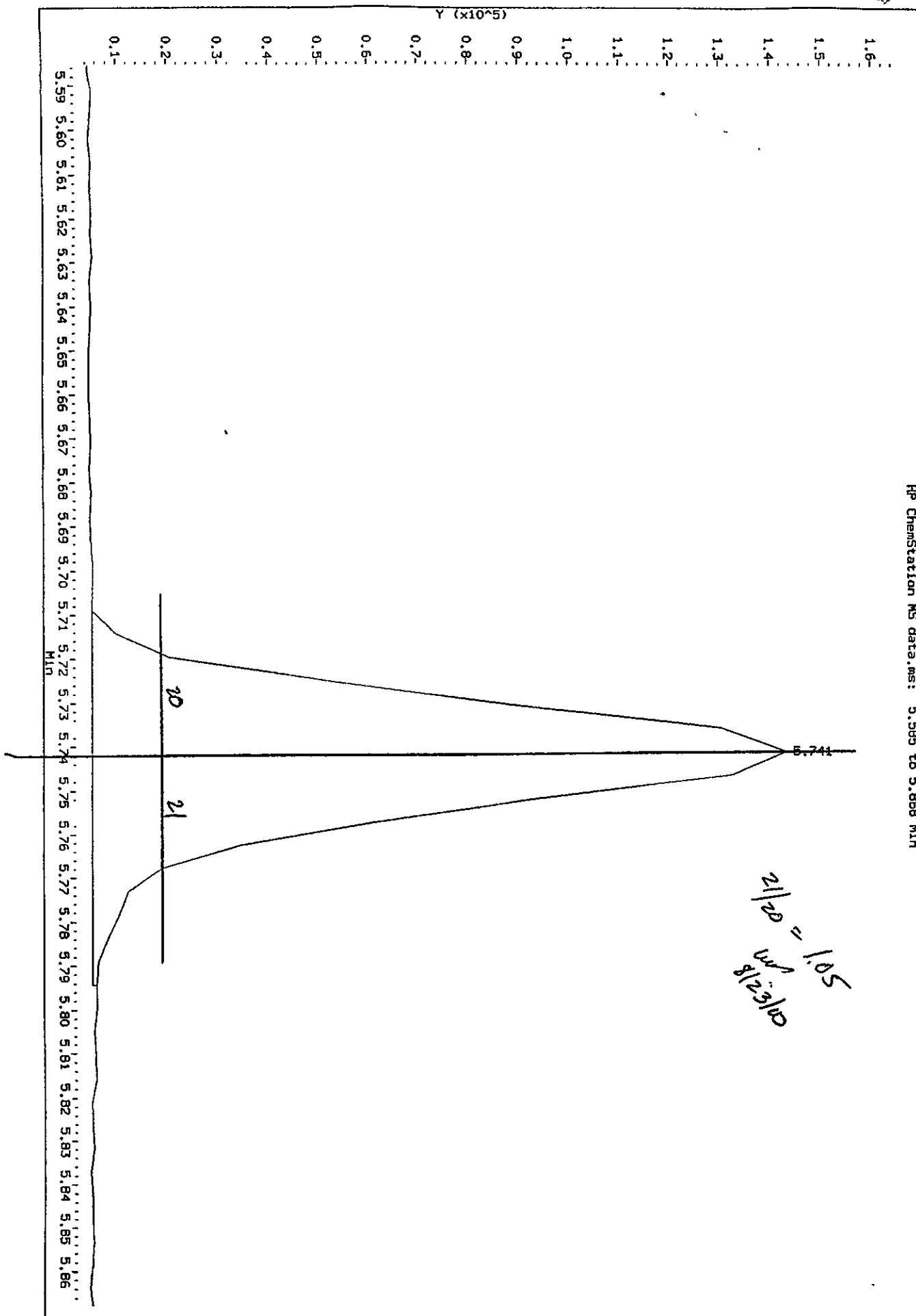
Instrument: 71.1
 Operator: 045183
 Column diameter: 2.00

\\QPI1PA02\Nchem\71.1\5082300.b\5082300FT.D

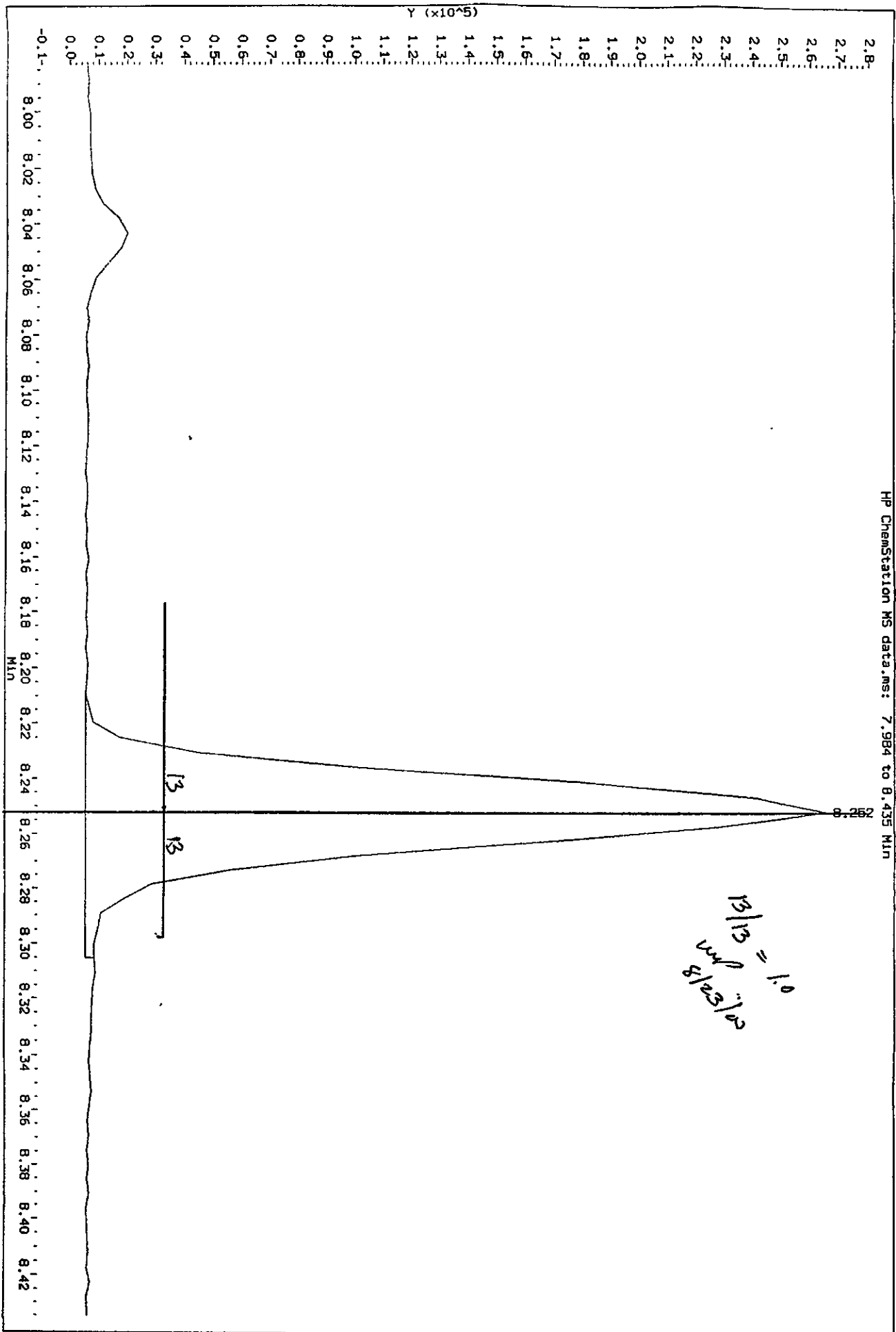


Data File: \QIPITP02\Uchem\71.1\5082300.b\5082300T.D
Injection Date: 23-AUG-2000 19:17
Instrument: 71.1
Client Sample ID: DFTP02

HP ChemStation MS data.ms: 5.585 to 5.868 Min



Data File: \NPI7P02\Nchem\71.1\5082300.b\50823DFT.D
 Injection Date: 23-AUG-2000 19:17
 Instrument: 71.1
 Client Sample ID: DFTPE02



Data File: \\QP1TPA02\B\chem\71.1\s082400.b\S0824DF1.D

Date : 24-AUG-2000 15:15

Client ID: DFTPP02

Instrument: 71.1

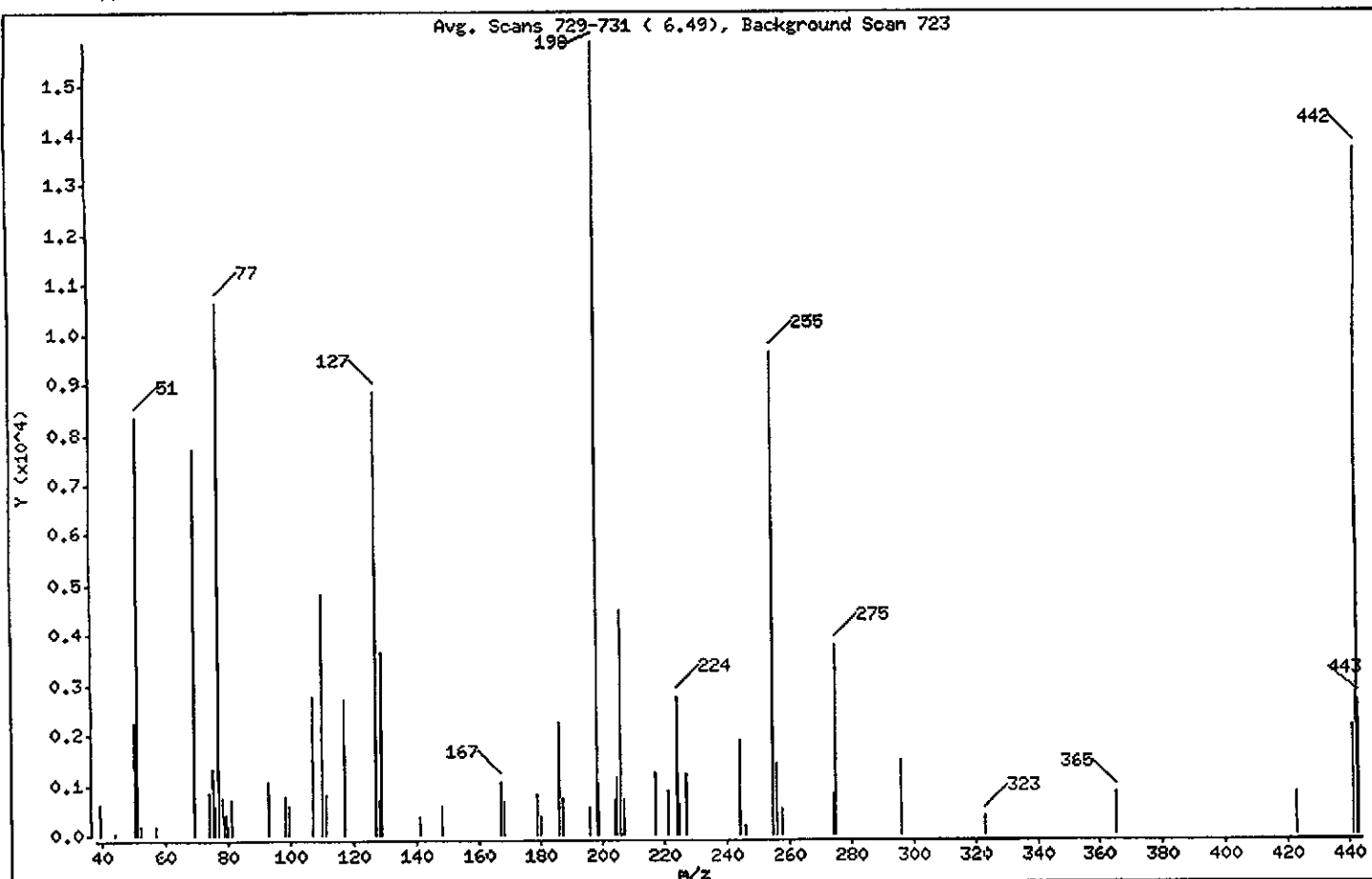
Sample Info: DFTPP050 (25ppb) 194-158-6

Operator: 045183

Column phase:

Column diameter: 2.00

1 dftpp



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

669 408

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

Page 4

Date : 24-AUG-2000 15:15

Client ID: DFTPP02

Instrument: 71.i

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

Operator: 045183

Column phase:

Column diameter: 2.00

Data File: S0824DF1.D
 Spectrum: Avg. Scans 729-731 (6.49), Background Scan 723
 Location of Maximum: 198.00
 Number of points: 59

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

Data File: \\QPITPRO2\chem\71.i\5082400.b\50824DF1.D

Date: 24-JUL-2000 15:15

Client ID: DFTPO2

Sample Info: DFTPO50 (25ppb) 194-158-6

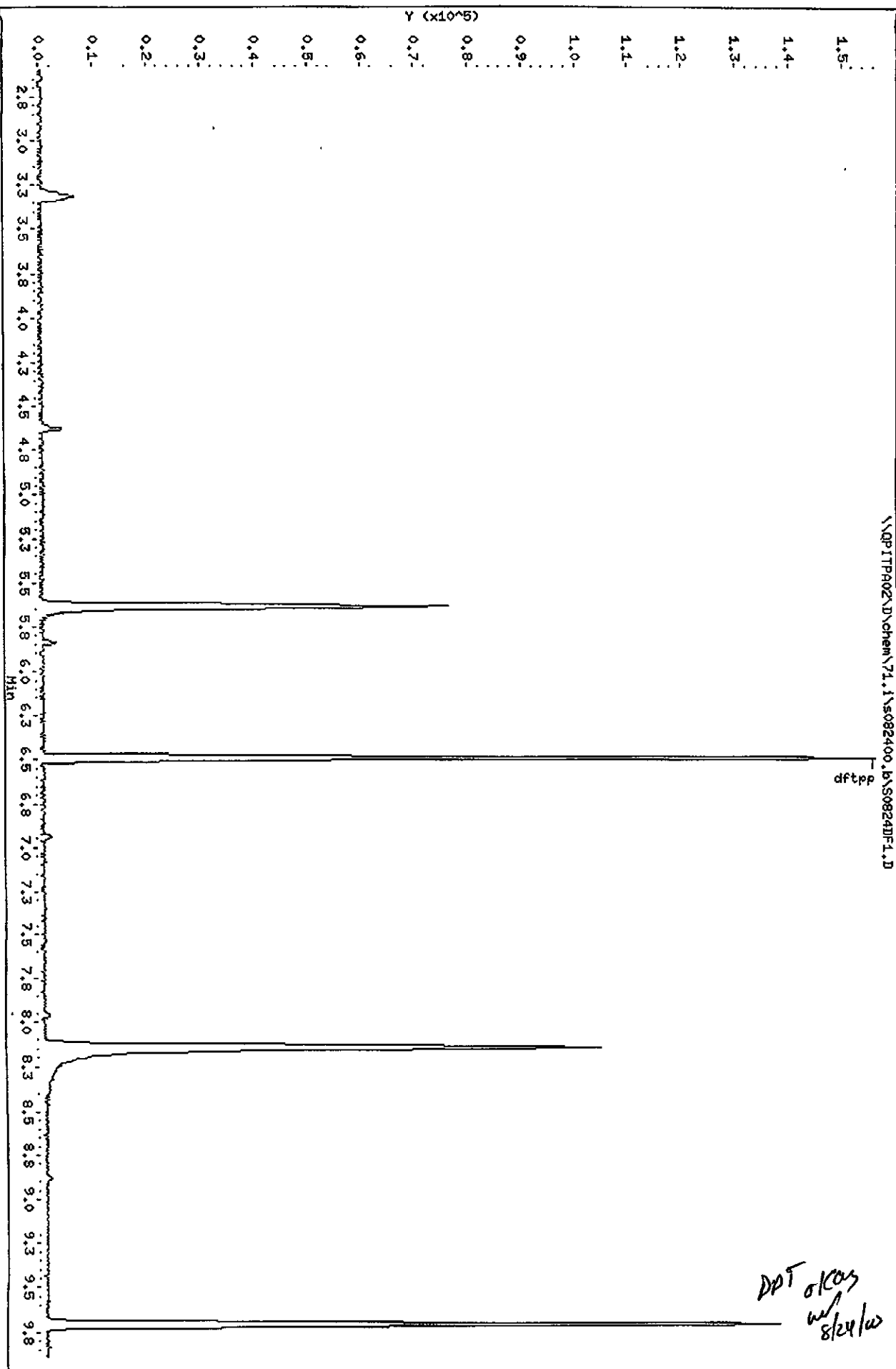
Instrument: 71.1

Operator: 045183

Column diameter: 2.00

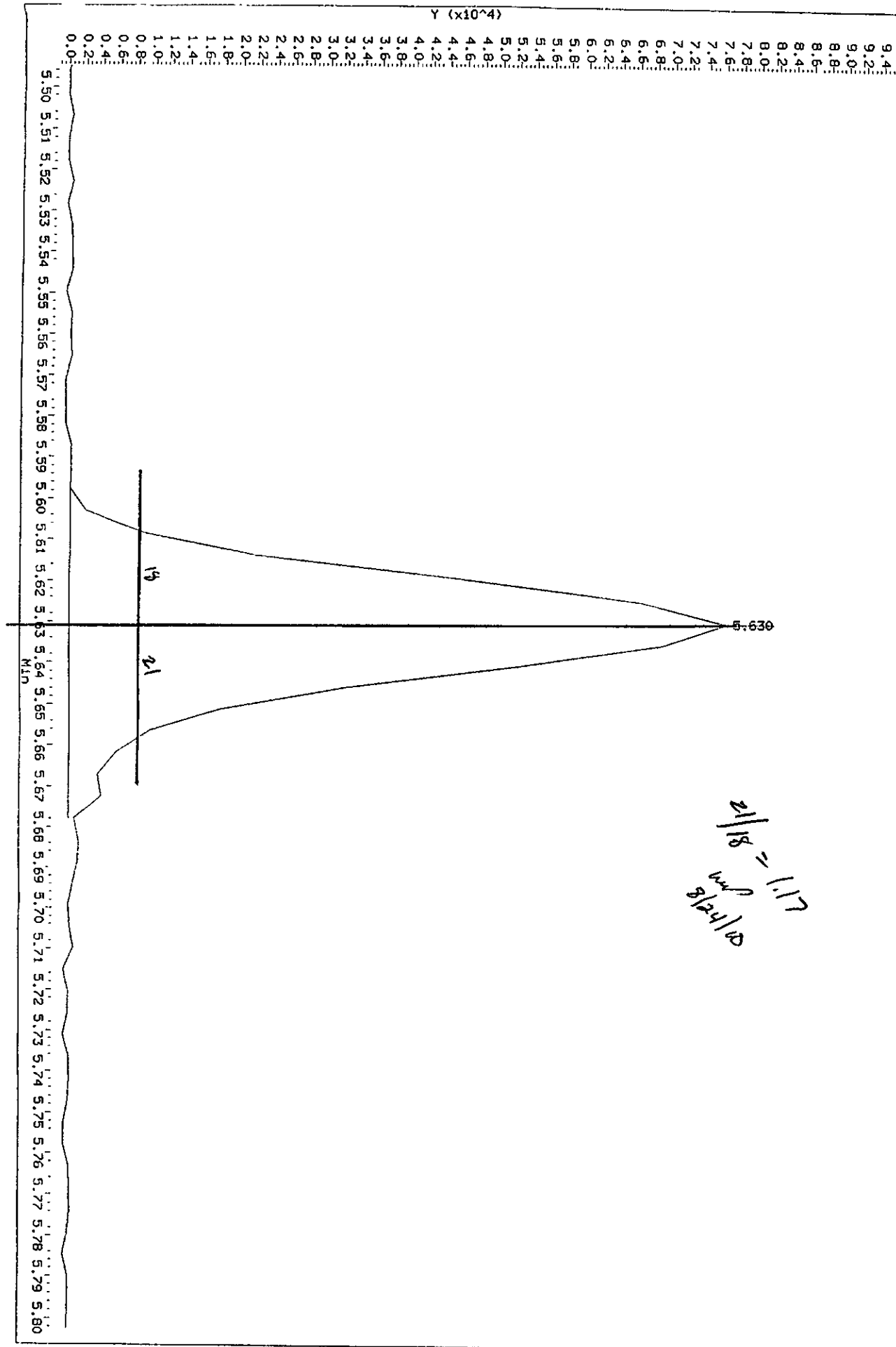
Column phase:

\\QPITPRO2\chem\71.i\5082400.b\50824DF1.D



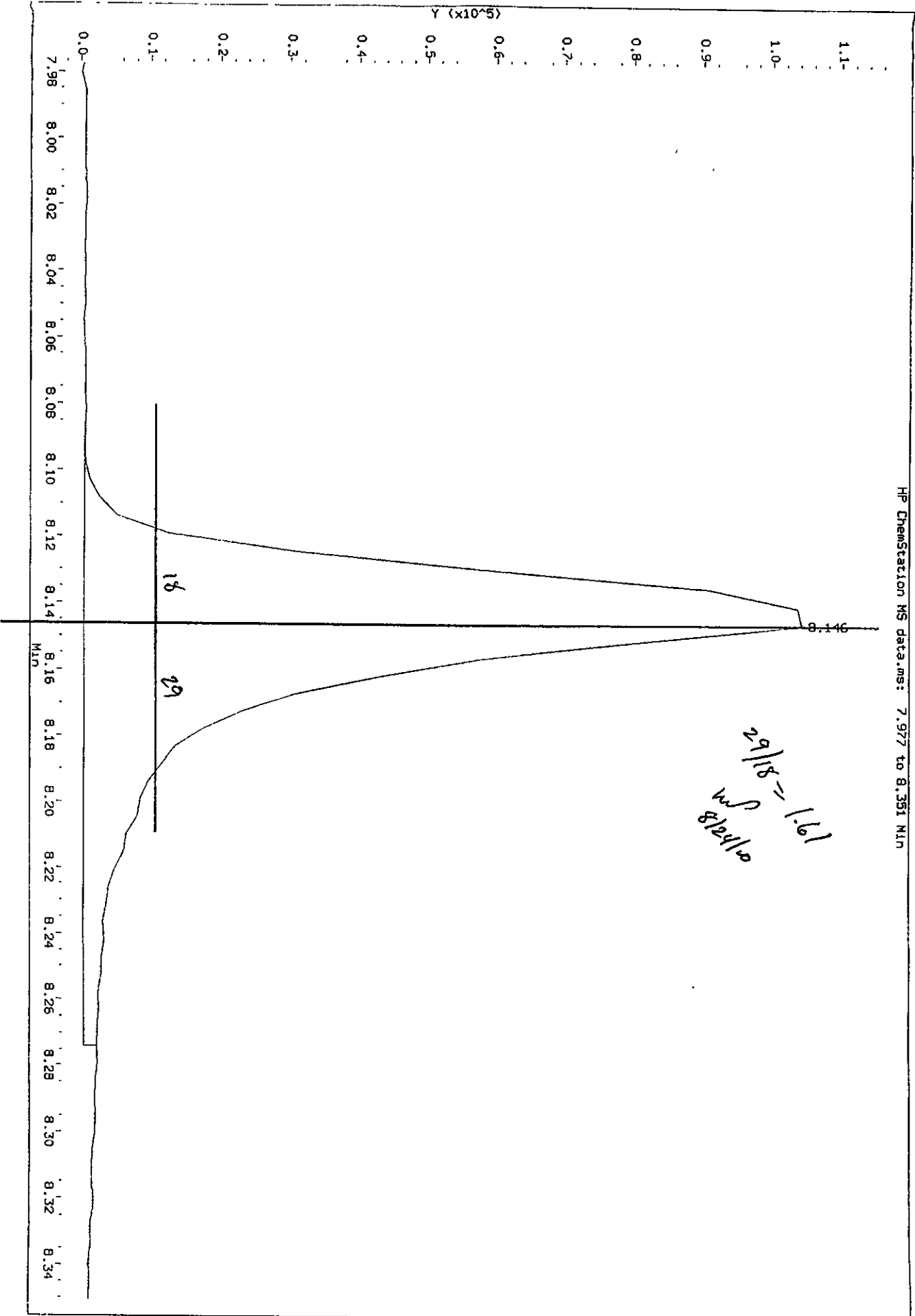
Data File: \NPIPA02\N\chen\71.1\5082400.b\50824DF1.D
 Injection Date: 24-AUG-2000 15:15
 Instrument: 71.1
 Client Sample ID: DFTP02

HP ChemStation MS data.ms: 5.495 to 5.802 Min



Data File: \\DPTFP02\N\chem\71.1\6082400.b\50824DF1.D
Injection Date: 24-AUG-2000 15:15
Instrument: 71.1
Client Sample ID: DPTFP02

HP ChemStation MS data.ms: 7.977 to 8.351 MIN



Date : 25-AUG-2000 14:59

Client ID: DFTPP02

Instrument: 71.1

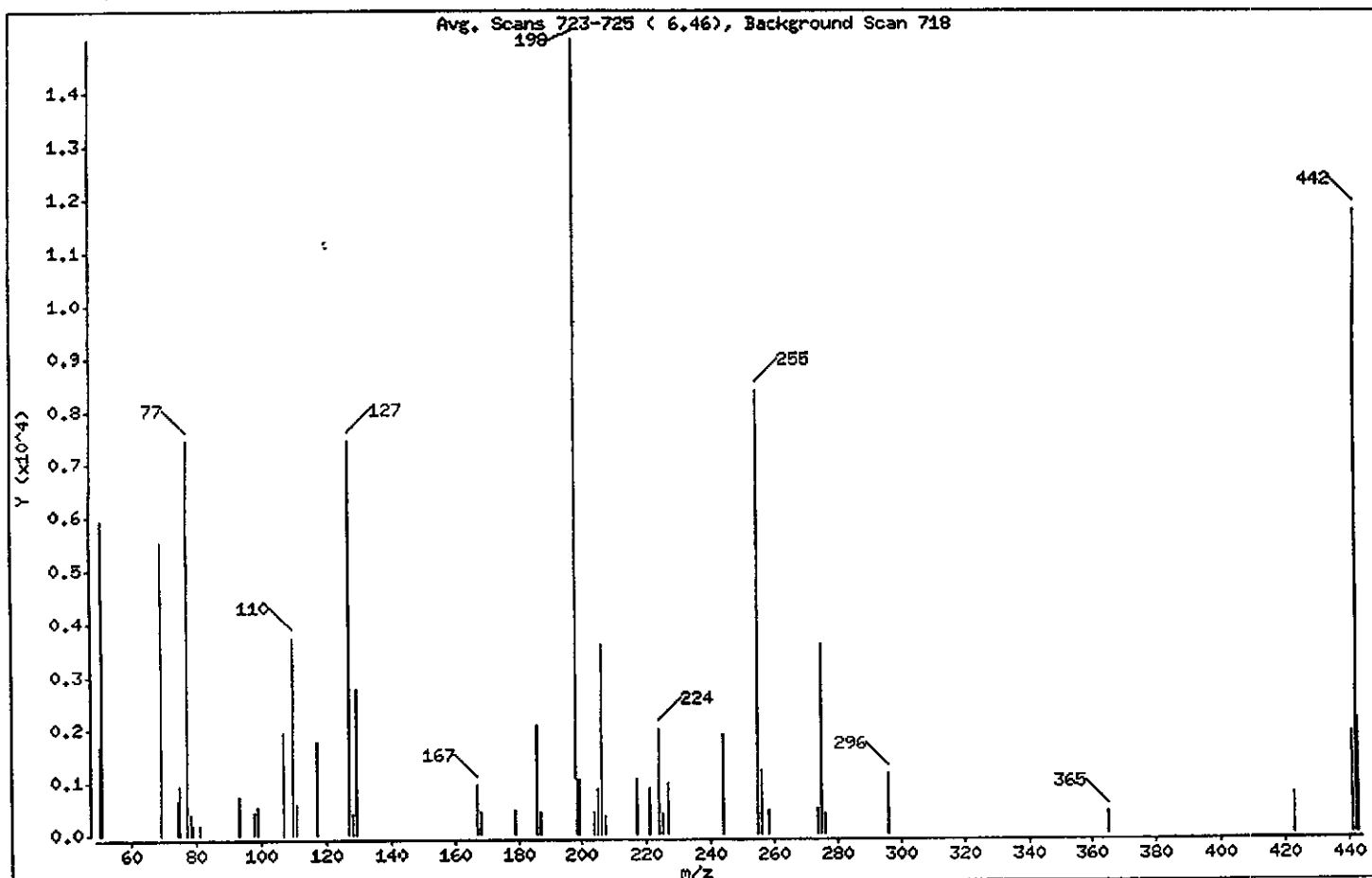
Sample Info: DFTPP050 (25ppb) 194-158-6

Operator: 045183

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	39.64
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	36.81
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.66
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 30.00% of mass 198	23.93
365	Greater than 1.00% of mass 198	2.83
441	Present, but less than mass 443	12.76
442	Greater than 40.00% of mass 198	78.38
443	17.00 - 23.00% of mass 442	14.44 (18.43)

Data File: \\QPITPA02\chem\71.1\5082500.b\5082500F2.D

Date : 25-AUG-2000 14:59

Client ID: DFTPP02

Instrument: 71.1

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

Operator: 045183

Column phase:

Column diameter: 2.00

Data File: 5082500F2.D

Spectrum: Avg. Scans 723-725 (6.46), Background Scan 718

Location of Maximum: 198.00

Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	1691	110.00	3730	204.00	424	274.00	495
51.00	5944	111.00	586	205.00	851	275.00	3589
69.00	5519	117.00	1743	206.00	3590	276.00	386
74.00	671	127.00	7447	207.00	357	296.00	1151
75.00	926	128.00	395	217.00	1024	365.00	425
77.00	7460	129.00	2764	221.00	850	423.00	748
78.00	381	167.00	920	224.00	2009	441.00	1914
79.00	169	168.00	421	225.00	394	442.00	11753
81.00	184	179.00	443	227.00	982	443.00	2166
93.00	741	186.00	2057	244.00	1893		
98.00	421	187.00	409	255.00	8380		
99.00	527	198.00	14995	256.00	1207		
107.00	1936	199.00	1037	258.00	444		

Data File: \\QPIPPA02\chem\71.1\5082500.b\508250F2.D
Date: 26-AUG-2000 14:59
Client ID: DFTPP02
Sample Info: DFTPP050 (25ppb) 194-158-6

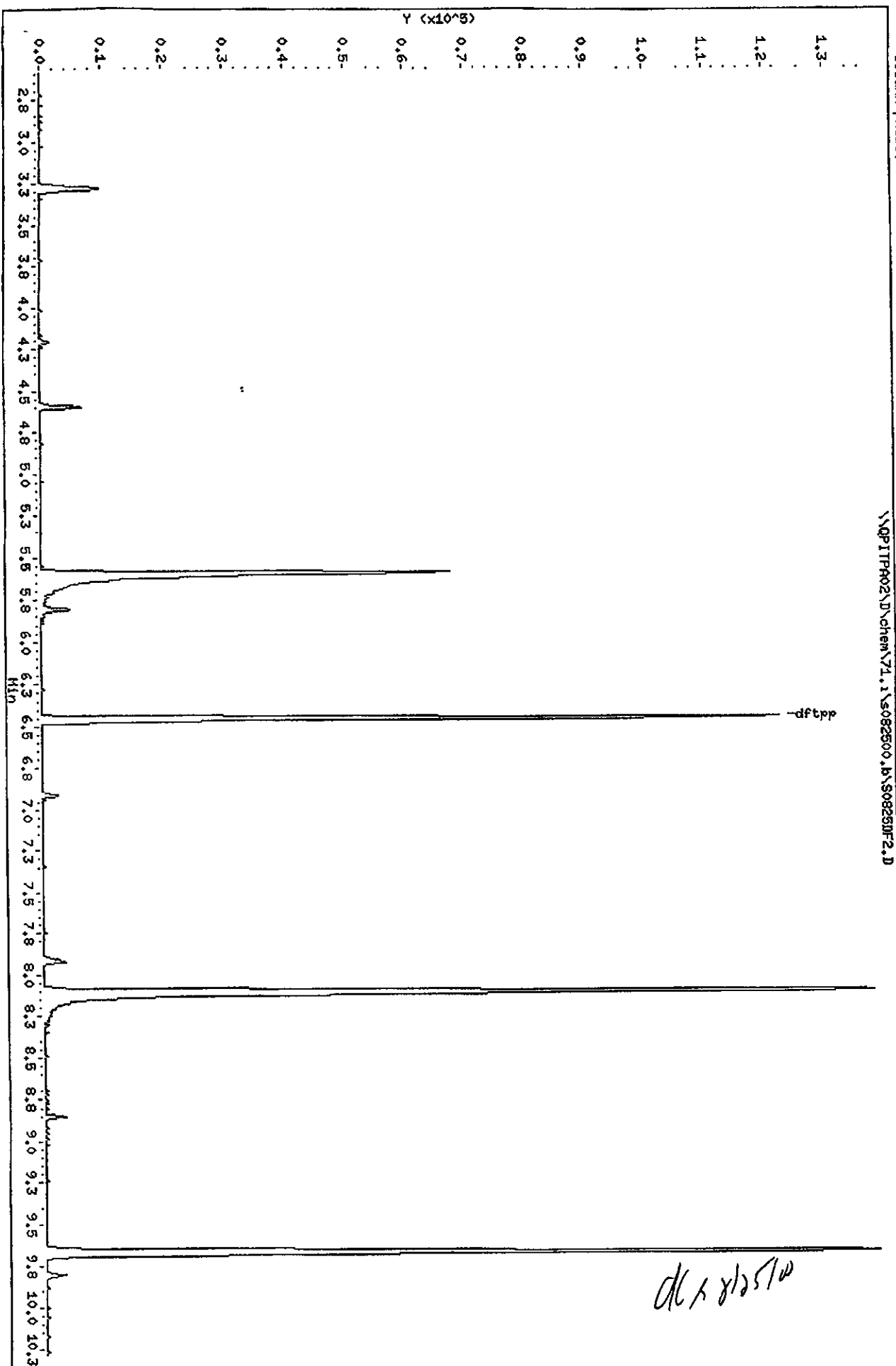
Instrument: 71.1

Operator: 045183

Column diameter: 2.00

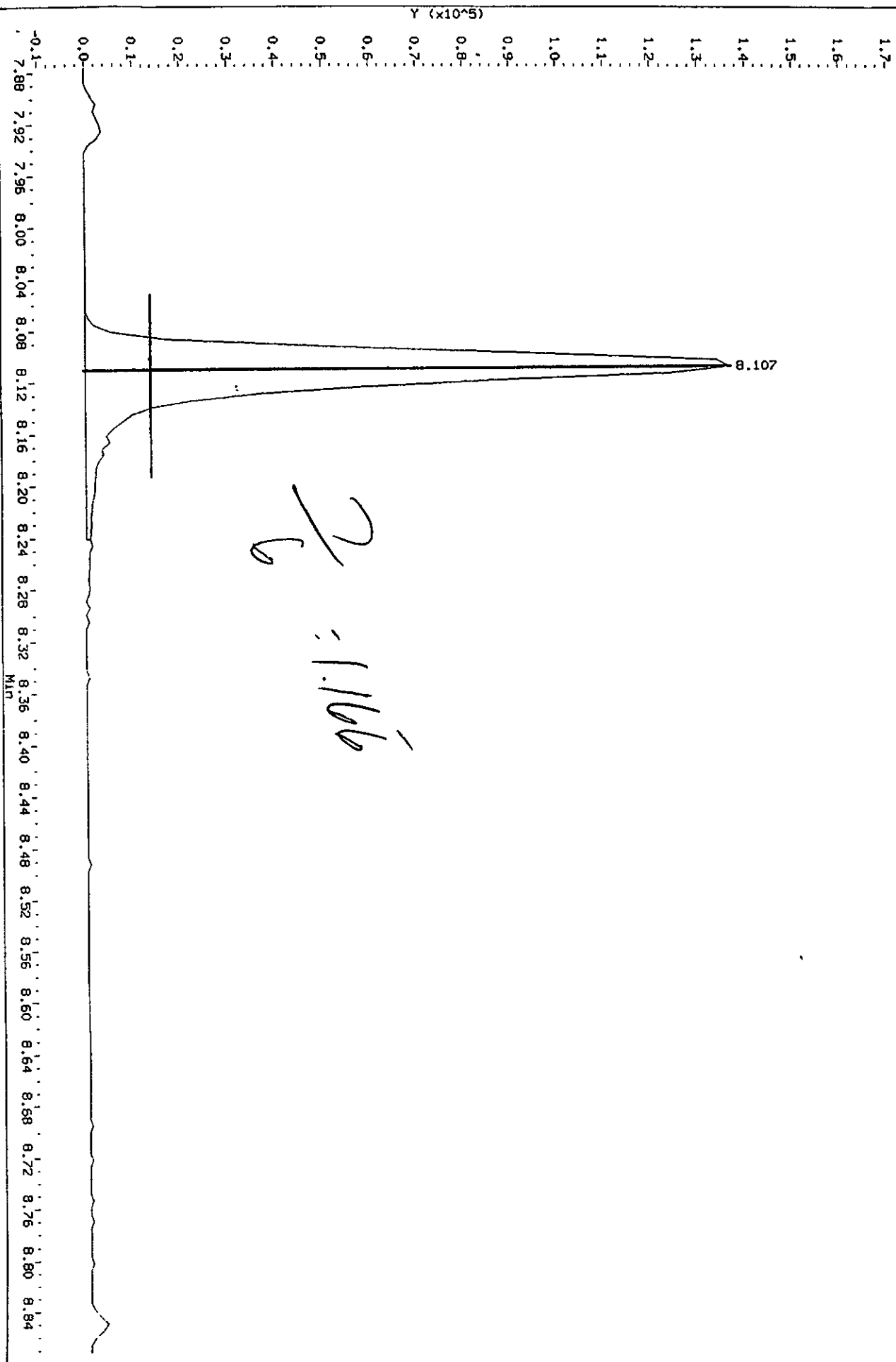
Column phase:

\\QPIPPA02\chem\71.1\5082500.b\508250F2.D

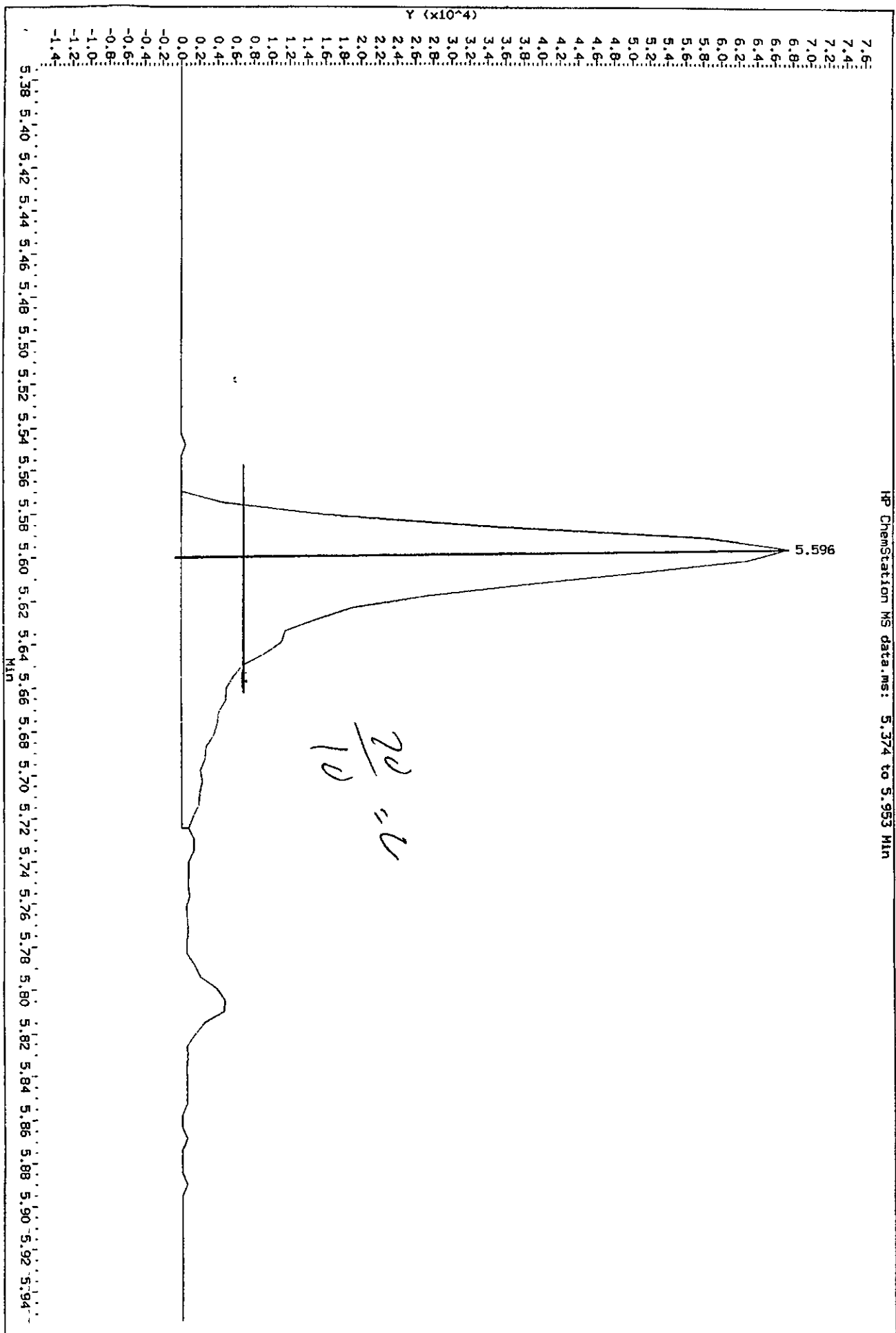


Data File: \\QPIPP02\Nchem\71.1\5082500.b\5082502.D
 Injection Date: 25-AUG-2000 14:59
 Instrument: 71.1
 Client Sample ID: DFIPO2

HP ChemStation MS data.ms: 7.876 to 8.872 Min



Data file: \NPIRPA02\Nchem\71.1\5082500.1\5082500F2.D
Injection Date: 25-AUG-2000 14:59
Instrument: 71.1
Client Sample ID: DFTPP02



UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

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

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

QC Batch: 0235112

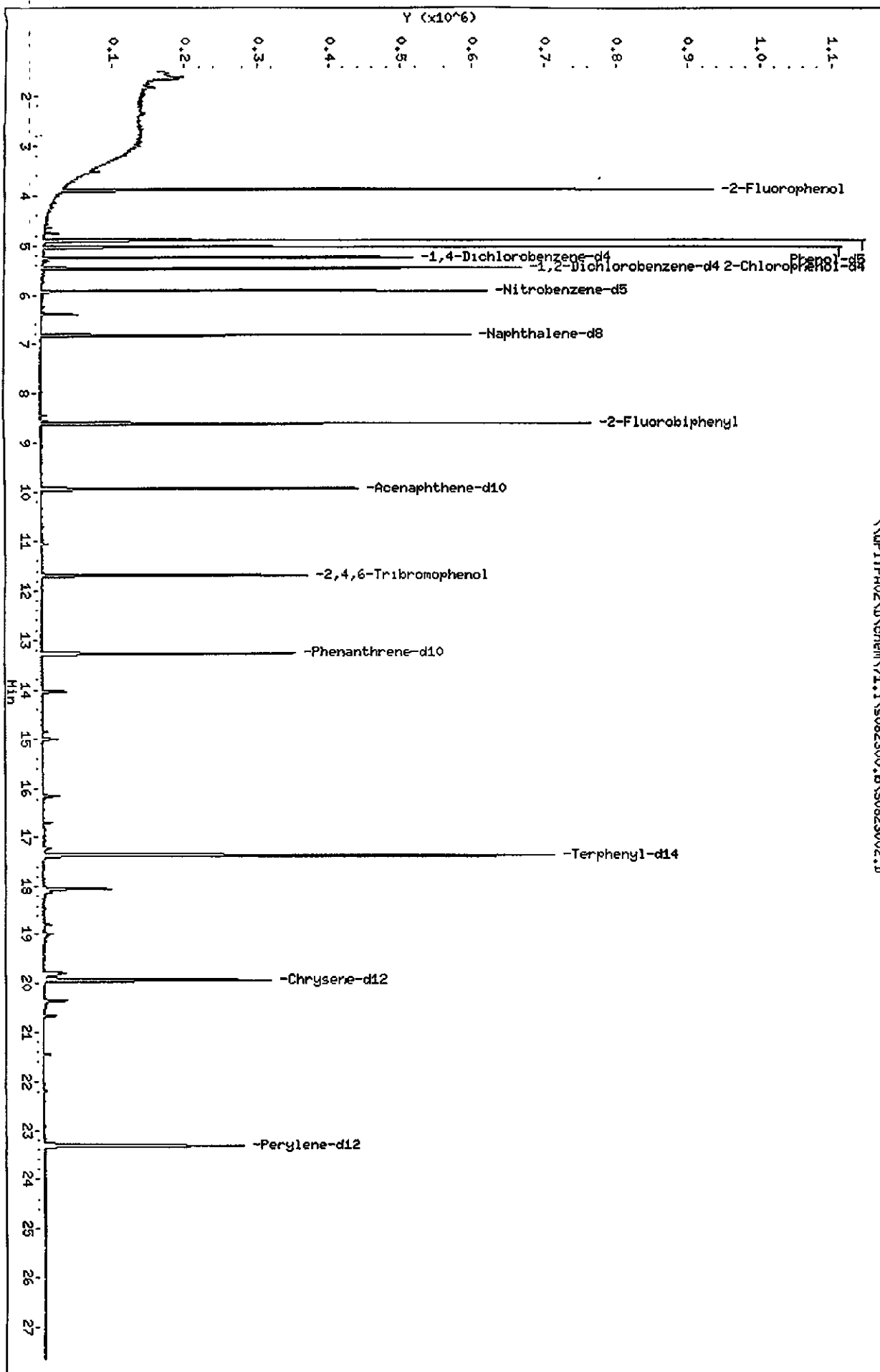
Client Sample Id: INTRA-LAB BLANK

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

Data File: \\GPITPA02\N\chem\71.1\5082300.b\50823002.D
Date: 23-AUG-2000 23:32
Client ID: INTR-LAB BLANK
Sample Info: c0h160154-sbk 8/21/00 82700 tclp
Volume injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25

\\GPITPA02\N\chem\71.1\5082300.b\50823002.D



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

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

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

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{gpc}$

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

						CONCENTRATIONS		
		QUANT	SIG				ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(mg/L)
*****		****	**	*****	*****	*****	*****	*****
*	1 1,4-Dichlorobenzene-d4	152	5 245	5.235	(1.000)	89960	40.0000	(a)
*	2 Naphthalene-d8	136	6 821	6.811	(1.000)	380795	40.0000	(a)
*	3 Acenaphthene-d10	164	9.930	9.910	(1.000)	180111	40.0000	(a)
*	4 Phenanthrene-d10	188	13.275	13.259	(1.000)	268738	40.0000	(a)
*	5 Chrysene-d12	240	19.942	19.937	(1.000)	254204	40.0000	(a)
*	6 Perylene-d12	264	23.318	23.313	(1.000)	250103	40.0000	(a)
	10 Pyridine	79	Compound Not Detected.					
	28 1,4-Dichlorobenzene	146	Compound Not Detected.					
M	34 Cresols, total	100	Compound Not Detected.					
	31 2-Methylphenol	108	Compound Not Detected.					
	35 4-Methylphenol	108	Compound Not Detected.					
	38 Hexachloroethane	117	Compound Not Detected.					
	39 Nitrobenzene	77	Compound Not Detected.					

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (mg/L)
=====	====	==	=====	=====	=====	=====	=====
59 Hexachlorobutadiene	224				Compound Not Detected.		
69 2,4,6-Trichlorophenol	196				Compound Not Detected.		
70 2,4,5-Trichlorophenol	196				Compound Not Detected.		
91 2,4-Dinitrotoluene	165				Compound Not Detected.		
113 Hexachlorobenzene	283				Compound Not Detected.		
117 Pentachlorophenol	265				Compound Not Detected.		
\$ 172 Nitrobenzene-d5	82	5.919	5.914	(0.868)	265301	66.2212	0.16555(a)
\$ 173 2-Fluorobiphenyl	172	8.606	8.595	(0.867)	382277	64.3993	0.16100(a)
\$ 174 Terphenyl-d14	244	17.361	17.346	(0.871)	523418	100.112	0.25028(a)
\$ 175 Phenol-d5	99	4.893	4.893	(0.933)	449202	104.700	0.26175(a)
\$ 176 2-Fluorophenol	112	3.889	3.878	(0.741)	281883	86.2356	0.21559(a)
\$ 177 2,4,6-Tribromophenol	330	11.688	11.678	(0.880)	69849	90.5971	0.22649(a)
\$ 178 2-Chlorophenol-d4	132	5.032	5.027	(0.959)	316167	110.432	0.27608(a)
\$ 179 1,2-Dichlorobenzene-d4	152	5.459	5.449	(1.041)	113848	57.0304	0.14258(a)

QC Flag Legend

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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID: C0H220000 112

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DJ700102

Date Extracted: 08/21/00

Dilution factor: 1

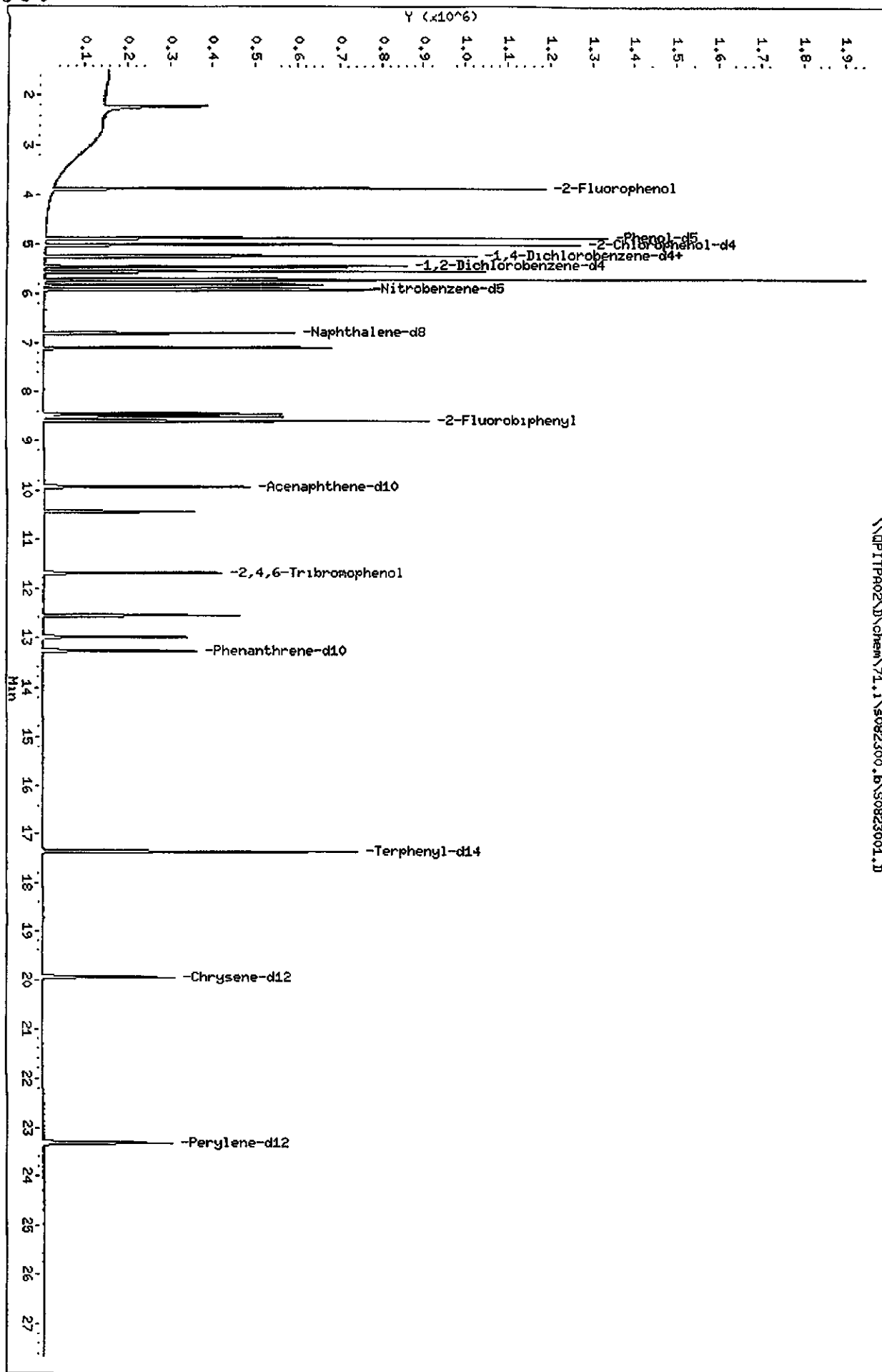
Date Analyzed: 08/23/00

Moisture %: NA

QC Batch: 0235112

Client Sample Id: CHECK SAMPLE

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



Data File: \\APITPA02\chem\71.1\5082300.b\50823001.D
Date: 23-AUG-2000 22:58
Client ID: INTRA-LAB CHECK
Sample Info: com160154-1es 8/21/00 8270c tolp
Volume Injected (ul): 2.0
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25

\\APITPA02\chem\71.1\5082300.b\50823001.D

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082300.b\S0823001.D
Lab Smp Id: DJ700102 Client Smp ID: INTRA-LAB CHECK
Inj Date : 23-AUG-2000 22:58
Operator : 045183 Inst ID: 71.i
Smp Info : c0h160154-lcs 8/21/00 8270c tclp
Misc Info : dj700102,s082300.b,8270clp.m,1-tclp.sub,
Comment :
Method : \\QPITPA02\D\chem\71.i\s082300.b\8270clp.m
Meth Date : 24-Aug-2000 09:15 bachas Quant Type: ISTD
Cal Date : 23-AUG-2000 21:50 Cal File: S0823CC5.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.04
Processing Host: PITPC050

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

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

Sy/24/00

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng)	(mg/L)
*****	****	==	*****	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4		152	5.243	5.235	(1.000)	96216	40.0000	(a)
* 2 Naphthalene-d8		136	6.819	6.811	(1.000)	397562	40.0000	(a)
* 3 Acenaphthene-d10		164	9.928	9.910	(1.000)	191210	40.0000	(a)
* 4 Phenanthrene-d10		188	13.272	13.259	(1.000)	282814	40.0000	(a)
* 5 Chrysene-d12		240	19.939	19.937	(1.000)	261450	40.0000	(a)
* 6 Perylene-d12		264	23.320	23.313	(1.000)	267824	40.0000	(a)
10 Pyridine		79	2.230	2.222	(0.425)	194279	48.7879	0.12197 (aM)
28 1,4-Dichlorobenzene		146	5.264	5.251	(1.004)	273627	74.3734	0.18593 (a)
M 34 Cresols, total		100				830476	242.679	0.60670 (a)
31 2-Methylphenol		108	5.563	5.561	(1.061)	258937	78.0671	0.19517 (a)
35 4-Methylphenol		108	5.729	5.727	(1.093)	571539	164.612	0.41153 (aA)
38 Hexachloroethane		117	5.830	5.817	(1.112)	108900	79.8459	0.19961 (a)
39 Nitrobenzene		77	5.937	5.935	(0.871)	326088	75.7420	0.18935 (a)

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
						(ng)	(mg/L)
*****	****	==	=====	=====	=====	=====	=====
59 Hexachlorobutadiene	225	7.112	7.100	(1.043)	105218	68.3951	0.17099(a)
69 2,4,6-Trichlorophenol	196	8.453	8.446	(0.851)	118363	69.3070	0.17327(a)
70 2,4,5-Trichlorophenol	196	8.512	8.515	(0.857)	131181	72.2557	0.18064(a)
91 2,4-Dinitrotoluene	165	10.446	10.449	(1.052)	100424	61.9954	0.15499(a)
113 Hexachlorobenzene	284	12.561	12.549	(0.946)	119563	72.8890	0.18222(a)
117 Pentachlorophenol	266	12.994	12.981	(0.979)	74071	76.7598	0.19190(a)
\$ 172 Nitrobenzene-d5	82	5.916	5.914	(0.868)	318549	76.1589	0.19040(a)
\$ 173 2-Fluorobiphenyl	172	8.608	8.595	(0.867)	469599	74.5178	0.18629(a)
\$ 174 Terphenyl-d14	244	17.359	17.346	(0.871)	535671	99.6158	0.24904(a)
\$ 175 Phenol-d5	99	4.895	4.893	(0.934)	532704	116.090	0.29022(a)
\$ 176 2-Fluorophenol	112	3.886	3.878	(0.741)	359314	102.777	0.25694(a)
\$ 177 2,4,6-Tribromophenol	330	11.685	11.678	(0.880)	82215	101.329	0.25332(a)
\$ 178 2-Chlorophenol-d4	132	5.029	5.027	(0.959)	380750	124.342	0.31086(a)
\$ 179 1,2-Dichlorobenzene-d4	152	5.462	5.449	(1.042)	155856	72.9972	0.18249(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount
exceeded maximum amount.
- M - Compound response manually integrated.

Data File Name: S0823001.D

Inj Date and Time: 23-AUG-2000 22:58

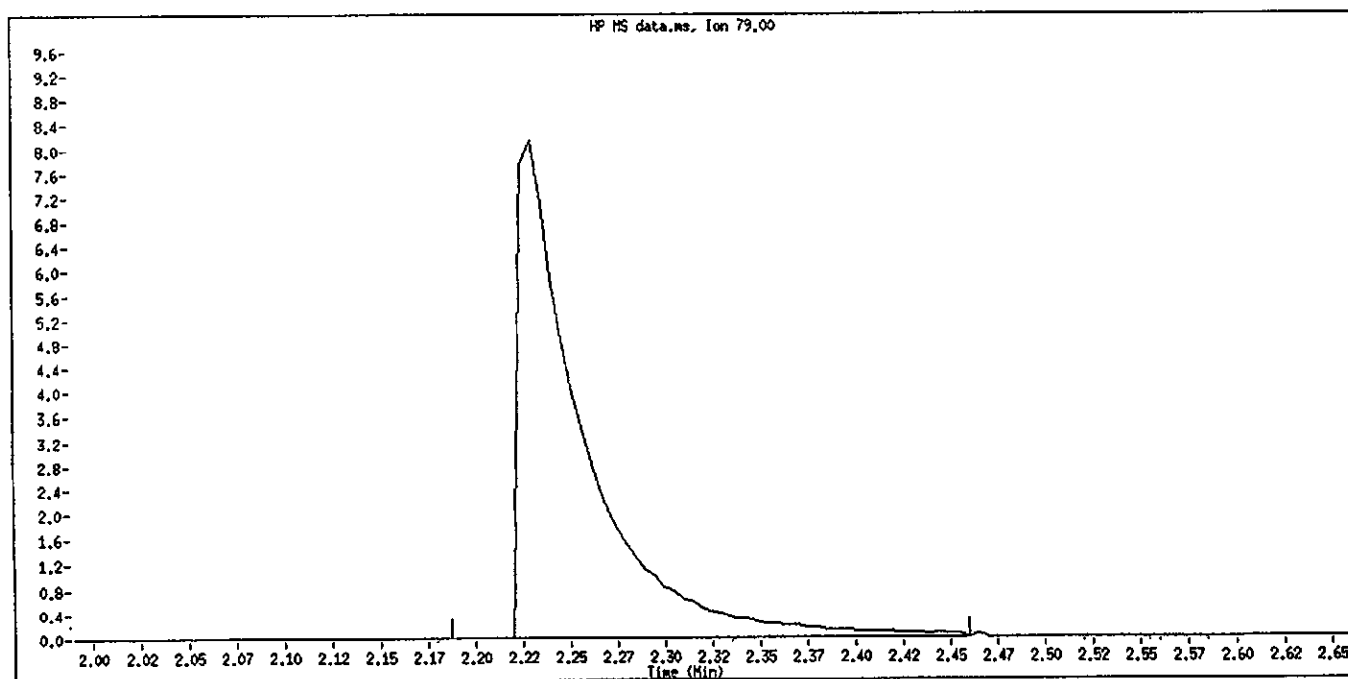
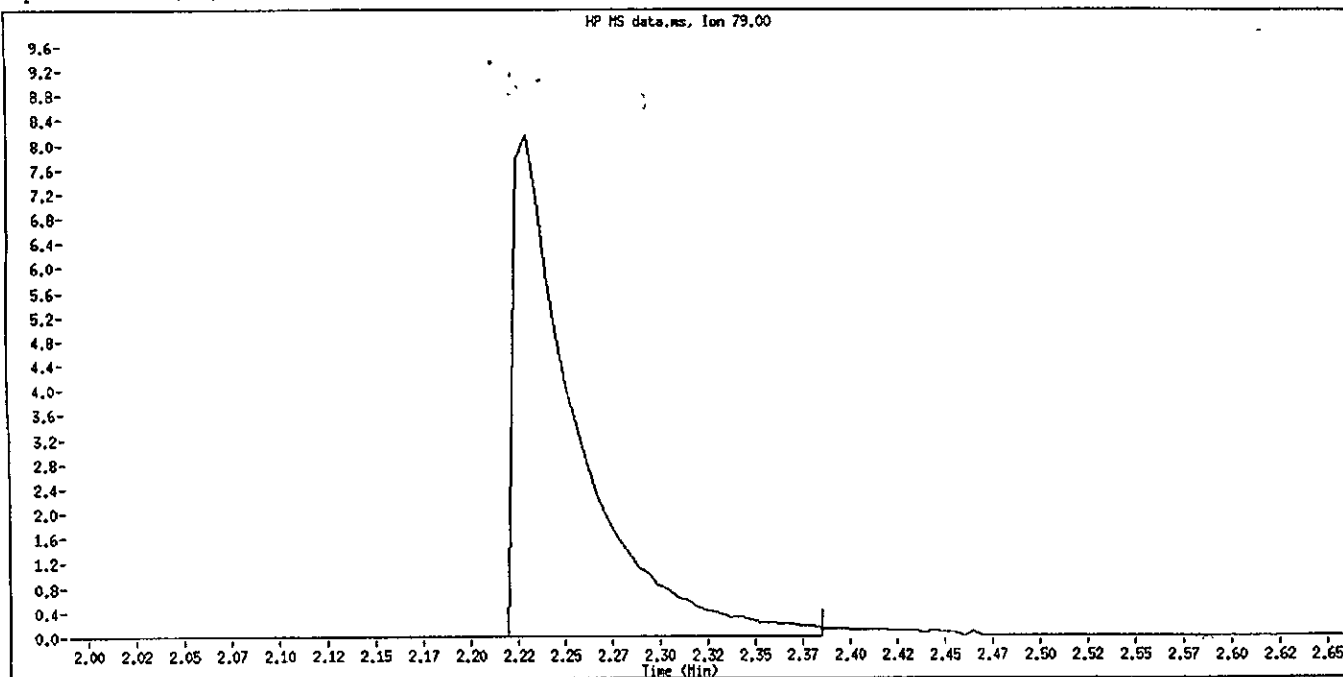
Instrument ID 71.i

Client ID INTRA-LAB CHECK

Compound Name: Pyridine

CAS #: 110-86-1

Report Date 08/24/2000



Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 08/16/00

Work Order: DHX4011C

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 20

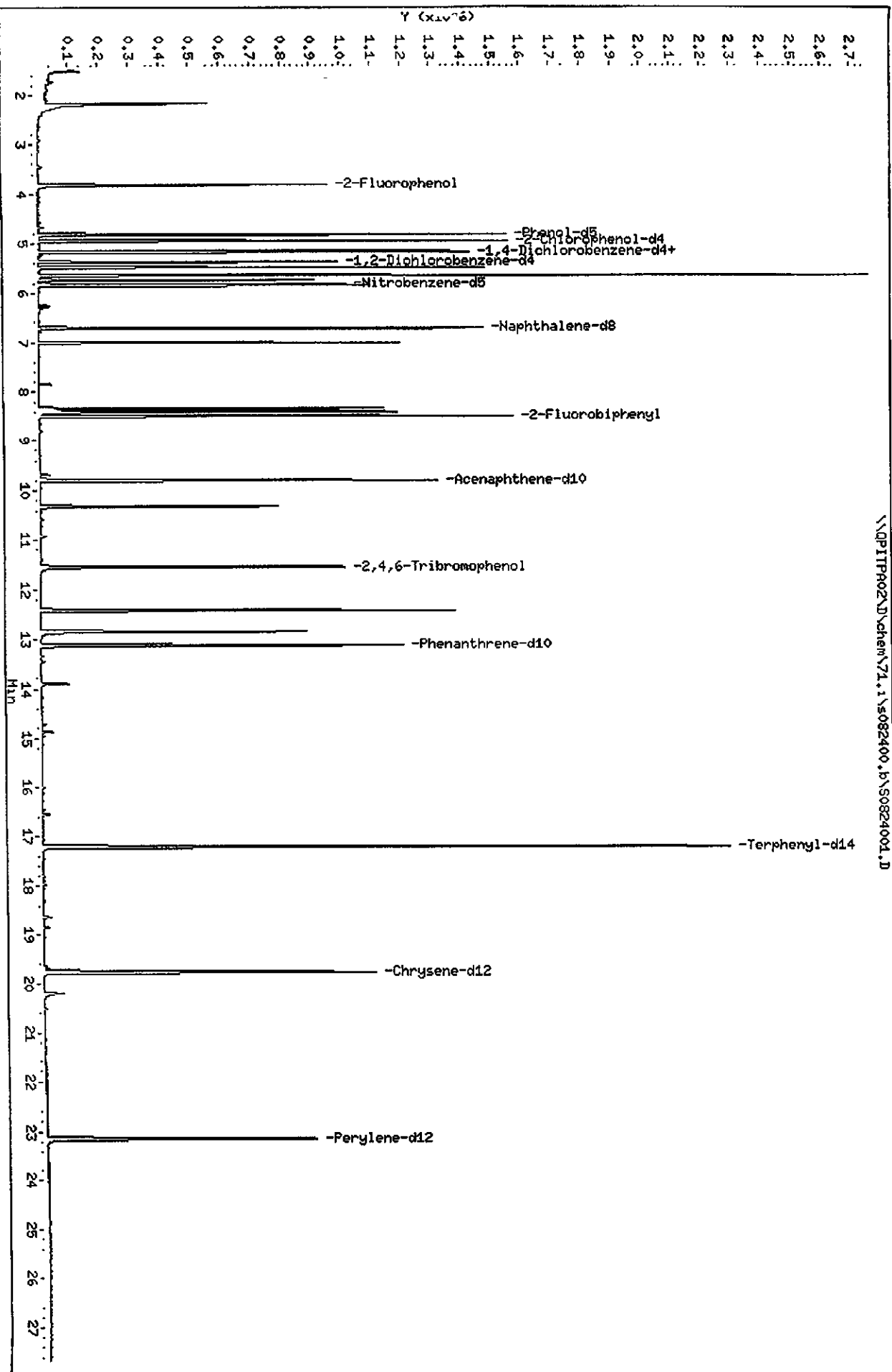
QC Batch: 0235112

Client Sample Id: DF/S1/0228/SDC/026

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.107	
121-14-2	2,4-Dinitrotoluene	0.136	
118-74-1	Hexachlorobenzene	0.176	
87-68-3	Hexachlorobutadiene	0.103	
67-72-1	Hexachloroethane	0.102	
98-95-3	Nitrobenzene	0.119	
87-86-5	Pentachlorophenol	0.190	
110-86-1	Pyridine	0.124	
95-95-4	2,4,5-Trichlorophenol	0.143	
88-06-2	2,4,6-Trichlorophenol	0.140	
1319-77-3	Cresols (total)	0.391	

Data File: \\QPI7P802\\chem\\71.1\\S082400.b\\S0824001.D
Date: 24-AUG-2000 18:56
Client ID: DF/S1/0228/SDC/026
Sample Info: con160154-001ms 8/21/00 8270c tolp
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824001.D
 Lab Smp Id: DHX4011C Client Smp ID: DF/S1/0228/SDC/026
 Inj Date : 24-AUG-2000 18:56
 Operator : 045183 Inst ID: 71.i
 Smp Info : c0h160154-001ms 8/21/00 8270c tclp
 Misc Info : dhx4011c,s082400.b,8270clp.m,1-tclp.sub,
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
 Meth Date : 25-Aug-2000 12:01 bachas Quant Type: ISTD
 Cal Date : 24-AUG-2000 15:30 Cal File: S0824CCD.D
 Als bottle: 3 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-tclp.sub
 Target Version: 4.04
 Processing Host: PITPC050

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{gpc}$

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

Compounds	QUANT SIG			CONCENTRATIONS			
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	5.157	5 153	(1.000)	272262	40 0000	(a)
* 2 Naphthalene-d8	136	6.717	6 713	(1.000)	1042891	40 0000	(a)
* 3 Acenaphthene-d10	164	9.794	9 795	(1.000)	574676	40 0000	(a)
* 4 Phenanthrene-d10	188	13 122	13.123	(1.000)	987016	40.0000	(a)
* 5 Chrysene-d12	240	19.773	19.780	(1.000)	955159	40.0000	(a)
* 6 Perylene-d12	264	23 144	23.145	(1 000)	853987	40.0000	(a)
10 Pyridine	79	2.160	2.135	(0.419)	479634	49.7555	0.12439 (aM)
28 1,4-Dichlorobenzene	146	5 178	5.174	(1 004)	422555	42.7561	0 10689 (a)
M 34 Cresols, total	100				1318725	156.270	0.39067 (a)
31 2-Methylphenol	108	5.477	5.473	(1.062)	415419	51.4792	0.12870 (a)
35 4-Methylphenol	108	5.643	5.639	(1.094)	903306	104 791	0.26198 (a)
38 Hexachloroethane	117	5.739	5.735	(1.113)	145254	40.7533	0.10188 (a)
39 Nitrobenzene	77	5.846	5.842	(0.870)	462075	47 6596	0 11915 (a)

Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824001.D
 Report Date: 25-Aug-2000 12:03

Page 2

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ng)	(mg/L)
=====	=====	==	=====	=====	=====	=====	=====	
59 Hexachlorobutadiene	225	7 005	7.001	(1.043)	206817	41.2401	0.10310(a)	
69 2,4,6-Trichlorophenol	196	8 335	8.331	(0.851)	280451	56.0095	0.14002(a)	
70 2,4,5-Trichlorophenol	196	8 394	8.396	(0.857)	323049	57.1498	0.14287(a)	
91 2,4-Dinitrotoluene	165	10 312	10.313	(1.053)	259234	54.3927	0.13598(a)	
113 Hexachlorobenzene	284	12.417	12.413	(0.946)	394388	70.5295	0.17632(a)	
117 Pentachlorophenol	266	12.849	12.846	(0.979)	221692	75.8412	0.18960(aM)	
\$ 172 Nitrobenzene-d5	82	5.825	5.821	(0.867)	429016	46.3137	0.11578(a)	
\$ 173 2-Fluorobiphenyl	172	8.485	8.481	(0.866)	864086	45.9091	0.11477(a)	
\$ 174 Terphenyl-d14	244	17.203	17.199	(0.870)	1747279	93.5693	0.23392(a)	
\$ 175 Phenol-d5	99	4.815	4.816	(0.934)	775086	70.5682	0.17642(a)	
\$ 176 2-Fluorophenol	112	3.811	3.807	(0.739)	502625	57.8402	0.14460(a)	
\$ 177 2,4,6-Tribromophenol	330	11.546	11.542	(0.880)	242148	103.238	0.25810(a)	
\$ 178 2-Chlorophenol-d4	132	4.948	4.945	(0.960)	604587	75.4922	0.18873(a)	
\$ 179 1,2-Dichlorobenzene-d4	152	5.370	5.367	(1.041)	213358	34.8282	0.087070(a)	

QC Flag Legend

- a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).
 M - Compound response manually integrated.

669. 430

Data File Name S0824001.D

Inj. Date and Time. 24-AUG-2000 18:56

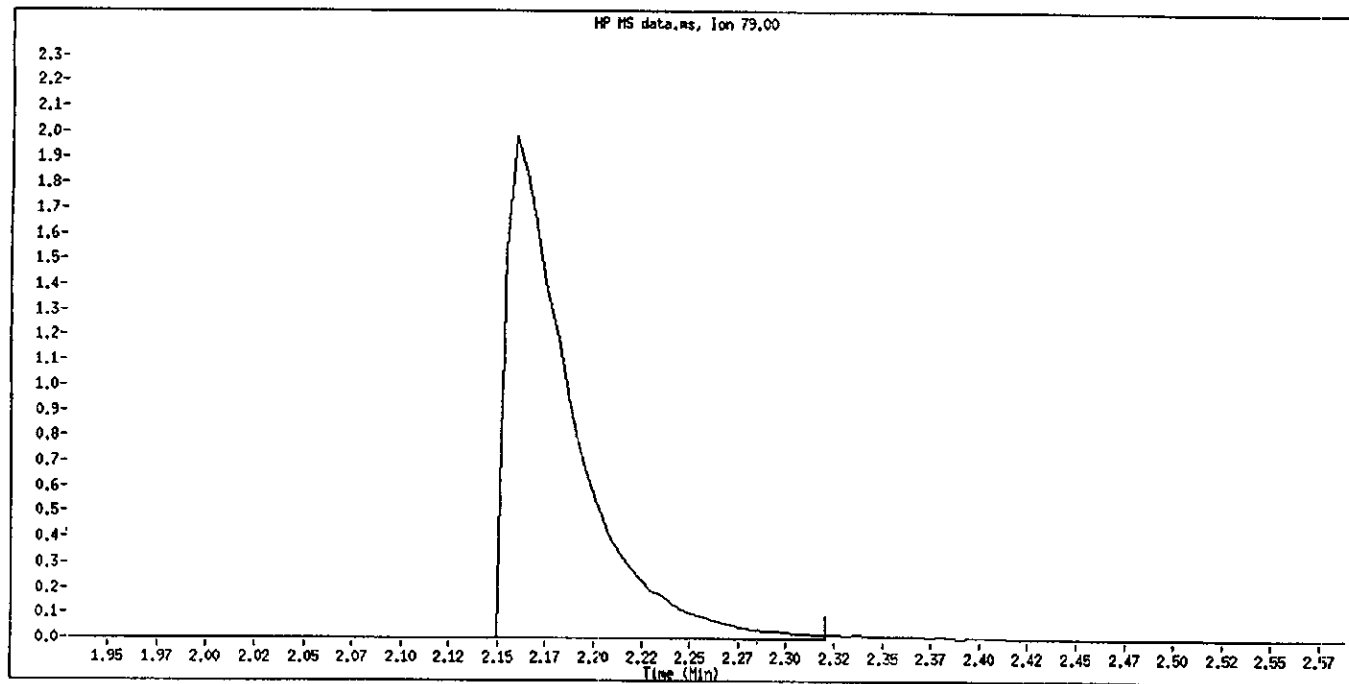
Instrument ID 71.1

Client ID: DF/S1/0228/SDC/026

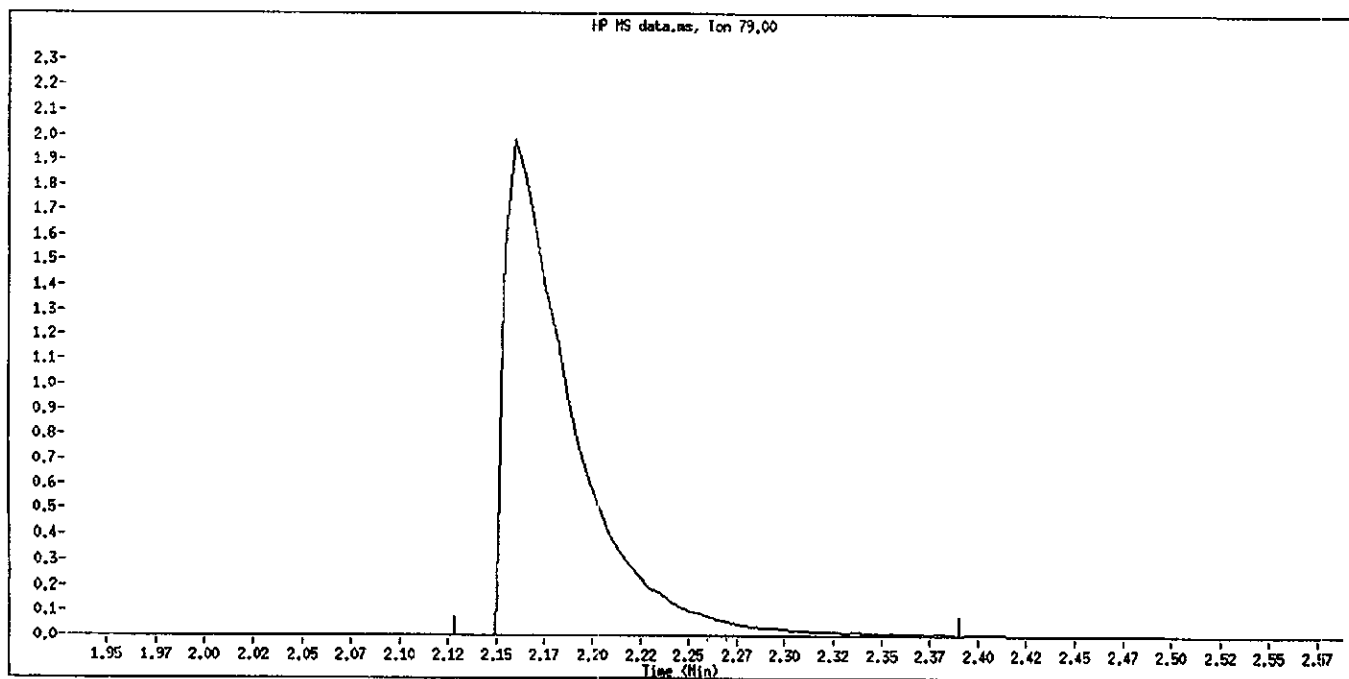
Compound Name Pyridine

CAS # 110-86-1

Report Date: 08/25/2000



Original Integration

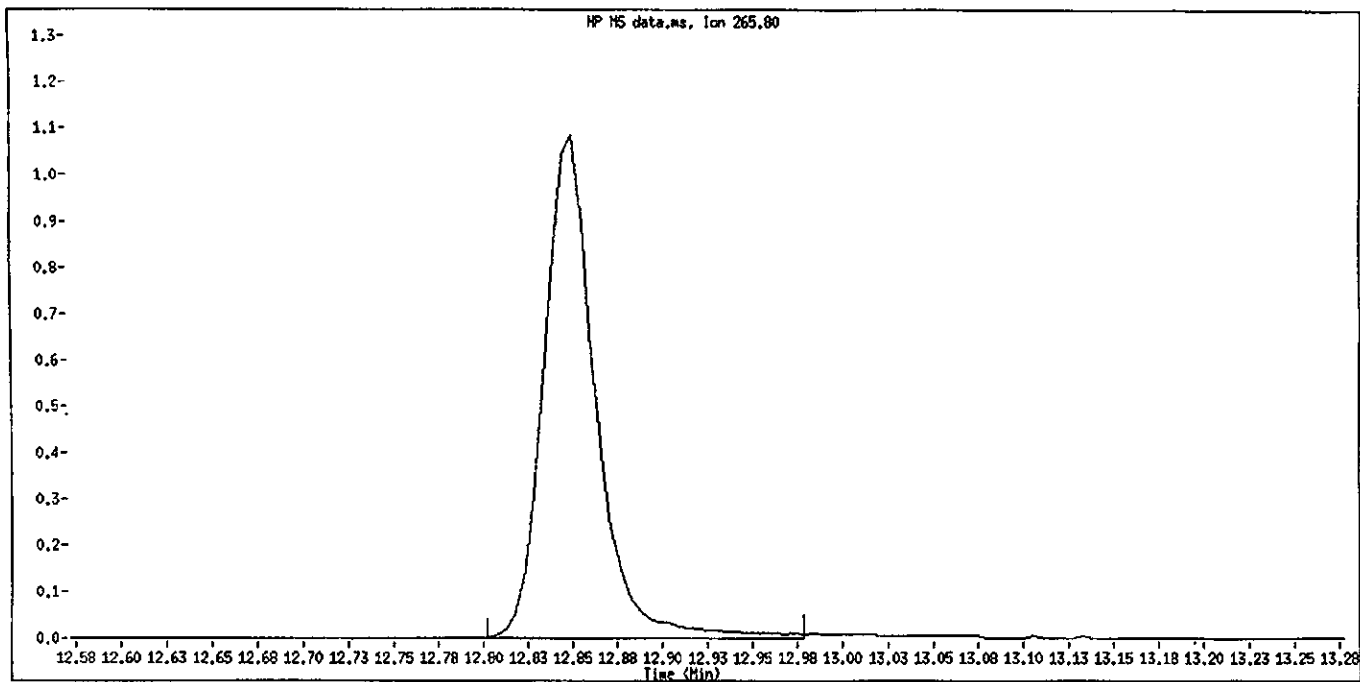


Manual Integration

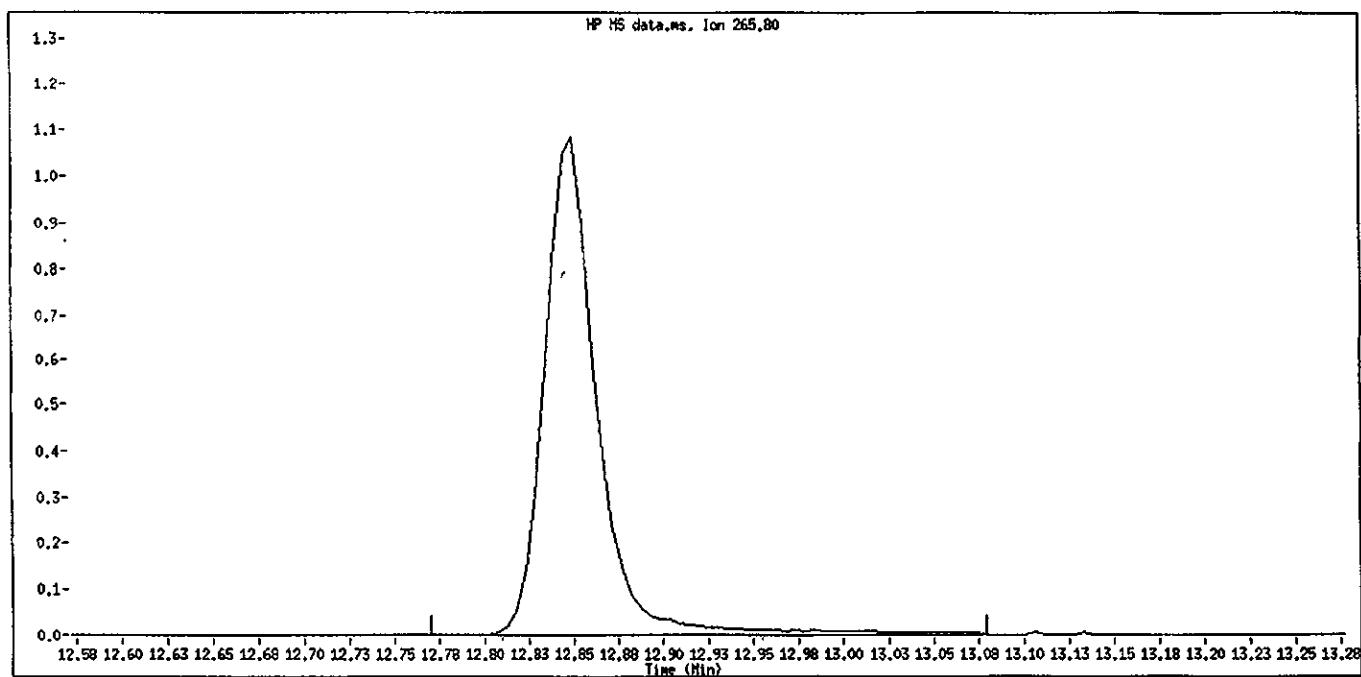
Manually Integrated By: BachaS

Manual Integration Reason: Unknown

Data File Name. S0824001.D
Inj. Date and Time. 24-AUG-2000 18:56
Instrument ID: 71.1
Client ID DF/S1/0228/SDC/026
Compound Name: Pentachlorophenol
CAS # 87-86-5
Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Unknown

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID: COH160154 001
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

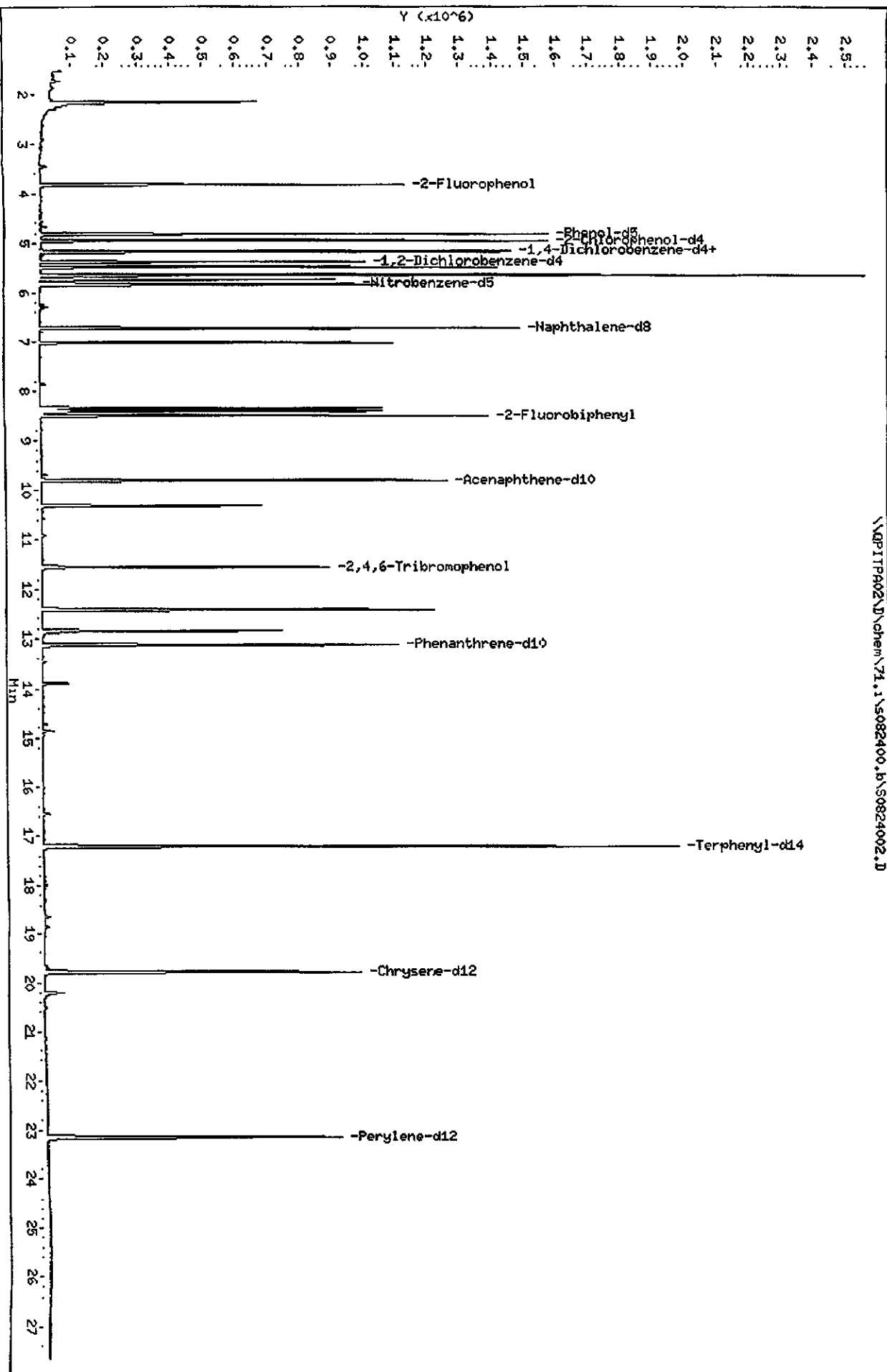
Sample WT/Vol: 200 / mL Date Received: 08/16/00
 Work Order: DHX4011D Date Extracted: 08/21/00
 Dilution factor: 1 Date Analyzed: 08/24/00
 Moisture %: 20

Client Sample Id: DF/S1/0228/SDC/026 QC Batch: 0235112

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.100	
121-14-2	2,4-Dinitrotoluene	0.120	
118-74-1	Hexachlorobenzene	0.165	
87-68-3	Hexachlorobutadiene	0.0968	
67-72-1	Hexachloroethane	0.0960	
98-95-3	Nitrobenzene	0.111	
87-86-5	Pentachlorophenol	0.173	
110-86-1	Pyridine	0.114	
95-95-4	2,4,5-Trichlorophenol	0.135	
88-06-2	2,4,6-Trichlorophenol	0.130	
1319-77-3	Cresols (total)	0.355	

Data File: \\NPIITPA02\chem\71.1\5082400.b\50824002.D
Date: 24-AUG-2000 19:30
Client ID: MF/S1/0228/SDC/026
Sample Info: c0h160154-001msd 8/21/00 62700 tolp
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



\\NPIITPA02\chem\71.1\5082400.b\50824002.D

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082400.b\S0824002.D
 Lab Smp Id: DHX4011D Client Smp ID: DF/S1/0228/SDC/026
 Inj Date : 24-AUG-2000 19:30
 Operator : 045183 Inst ID: 71.i
 Smp Info : c0h160154-001msd 8/21/00 8270c tclp
 Misc Info : dhx4011d,s082400.b,8270clp.m,1-tclp.sub,
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s082400.b\8270clp.m
 Meth Date : 25-Aug-2000 12:01 bachas Quant Type: ISTD
 Cal Date : 24-AUG-2000 15:30 Cal File: S0824CCC.D
 Als bottle: 4 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-tclp.sub
 Target Version: 4.04
 Processing Host: PITPC050

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

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

Compounds	QUANT SIG	CONCENTRATIONS					
		ON-COLUMN	FINAL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(mg/L)
*****	****	**	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	5.155	5.153	(1.000)	277724	40.0000	(a)
* 2 Naphthalene-d8	136	6.715	6.713	(1.000)	1038182	40.0000	(a)
* 3 Acenaphthene-d10	164	9.792	9.795	(1.000)	560013	40.0000	(a)
* 4 Phenanthrene-d10	188	13.125	13.123	(1.000)	933098	40.0000	(a)
* 5 Chrysene-d12	240	19.771	19.780	(1.000)	904924	40.0000	(a)
* 6 Perylene-d12	264	23.147	23.145	(1.000)	861563	40.0000	(a)
10 Pyridine	79	2.147	2.135	(0.417)	446562	45.4137	0.11353 (aM)
28 1,4-Dichlorobenzene	146	5.176	5.174	(1.004)	403516	40.0267	0.10007 (a)
M 34 Cresols, total	100				1222130	141.977	0.35494 (a)
31 2-Methylphenol	108	5.475	5.473	(1.062)	385223	46.7984	0.11700 (a)
35 4-Methylphenol	108	5.641	5.639	(1.094)	836907	95.1785	0.23795 (a)
38 Hexachloroethane	117	5.737	5.735	(1.113)	139585	38.3925	0.095981 (a)
39 Nitrobenzene	77	5.844	5.842	(0.870)	428858	44.4342	0.11108 (aR)

Data File: \\QPITPA02\D\chem\71.i\s082400.b\S0824002.D
 Report Date: 25-Aug-2000 12:04

Page 2

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
=====	=====	==	=====	=====	=====	(ng)	(mg/L)	
59 Hexachlorobutadiene	225	7.003	7.001	(1.043)	193338	38.7272	0.096818 (a)	
69 2,4,6-Trichlorophenol	196	8.334	8.331	(0.851)	254185	52.0930	0.13023 (a)	
70 2,4,5-Trichlorophenol	196	8.392	8.396	(0.857)	296936	53.9056	0.13476 (aM)	
91 2,4-Dinitrotoluene	165	10.310	10.313	(1.053)	223749	48.1765	0.12044 (a)	
113 Hexachlorobenzene	284	12.415	12.413	(0.946)	349744	66.1598	0.16540 (a)	
117 Pentachlorophenol	266	12.848	12.846	(0.979)	191726	69.3798	0.17345 (aM)	
\$ 172 Nitrobenzene-d5	82	5.823	5.821	(0.867)	399746	43.3496	0.10837 (a)	
\$ 173 2-Fluorobiphenyl	172	8.483	8.481	(0.866)	788148	42.9709	0.10743 (a)	
\$ 174 Terphenyl-d14	244	17.207	17.199	(0.870)	1516875	85.7402	0.21435 (a)	
\$ 175 Phenol-d5	99	4.813	4.816	(0.934)	721596	64.4061	0.16102 (a)	
\$ 176 2-Fluorophenol	112	3.809	3.807	(0.739)	474999	53.5861	0.13396 (a)	
\$ 177 2,4,6-Tribromophenol	330	11.544	11.542	(0.880)	209078	94.2901	0.23572 (a)	
\$ 178 2-Chlorophenol-d4	132	4.947	4.945	(0.960)	568801	69.6270	0.17407 (a)	
\$ 179 1,2-Dichlorobenzene-d4	152	5.369	5.367	(1.041)	202850	32.4616	0.081154 (a)	

QC Flag Legend

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

669 436

Data File Name S0824002.D

Inj. Date and Time. 24-AUG-2000 19 30

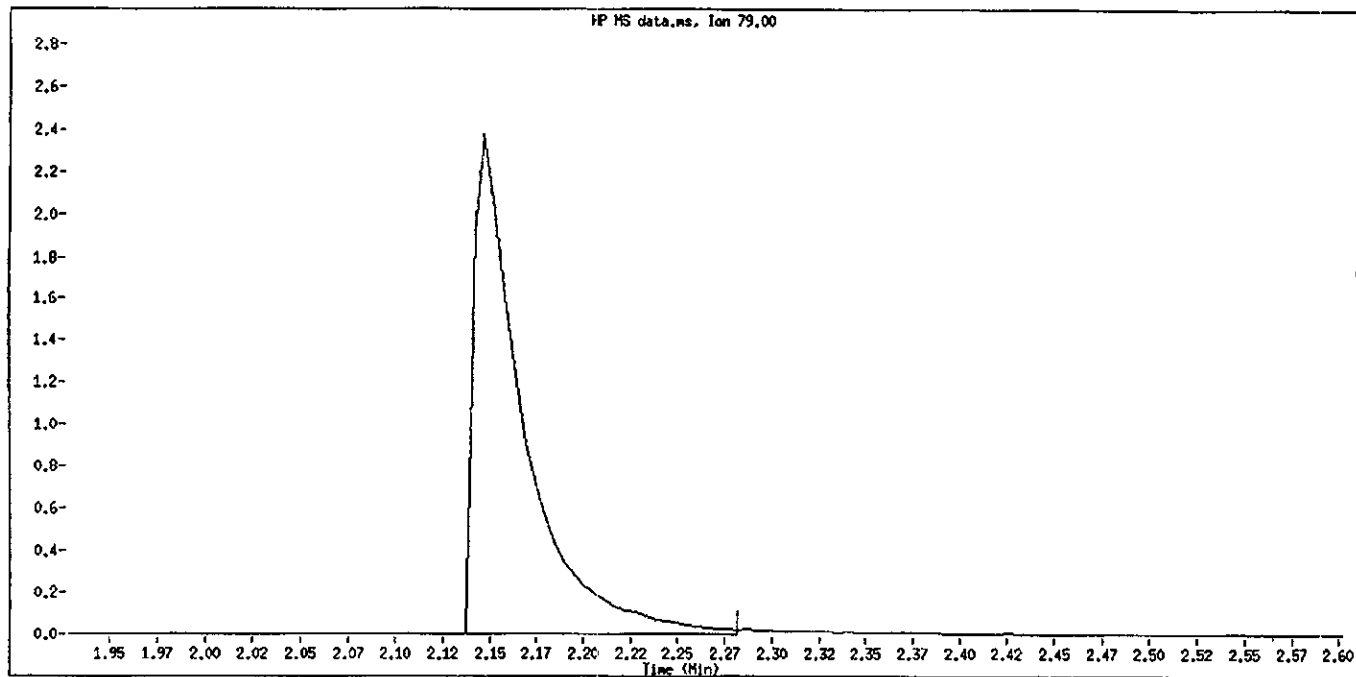
Instrument ID 71.1

Client ID: DF/S1/0228/SDC/026

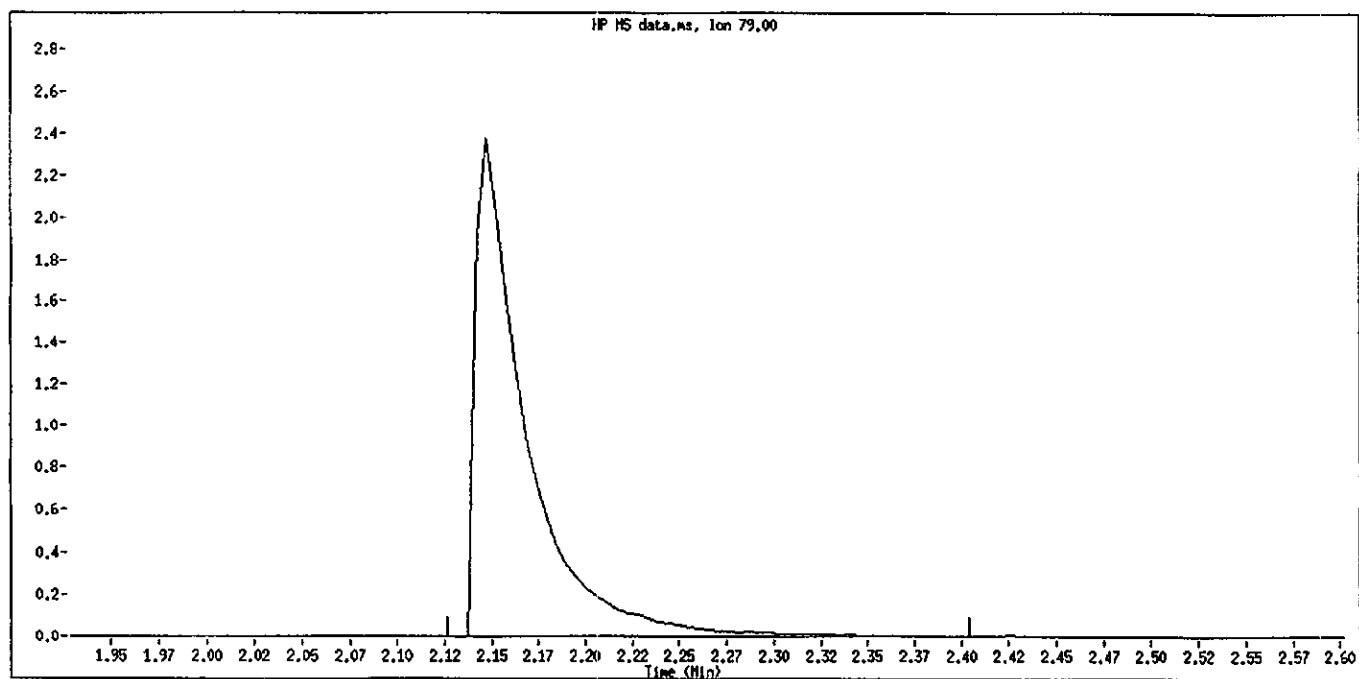
Compound Name Pyridine

CAS #. 110-86-1

Report Date 08/25/2000



Original Integration

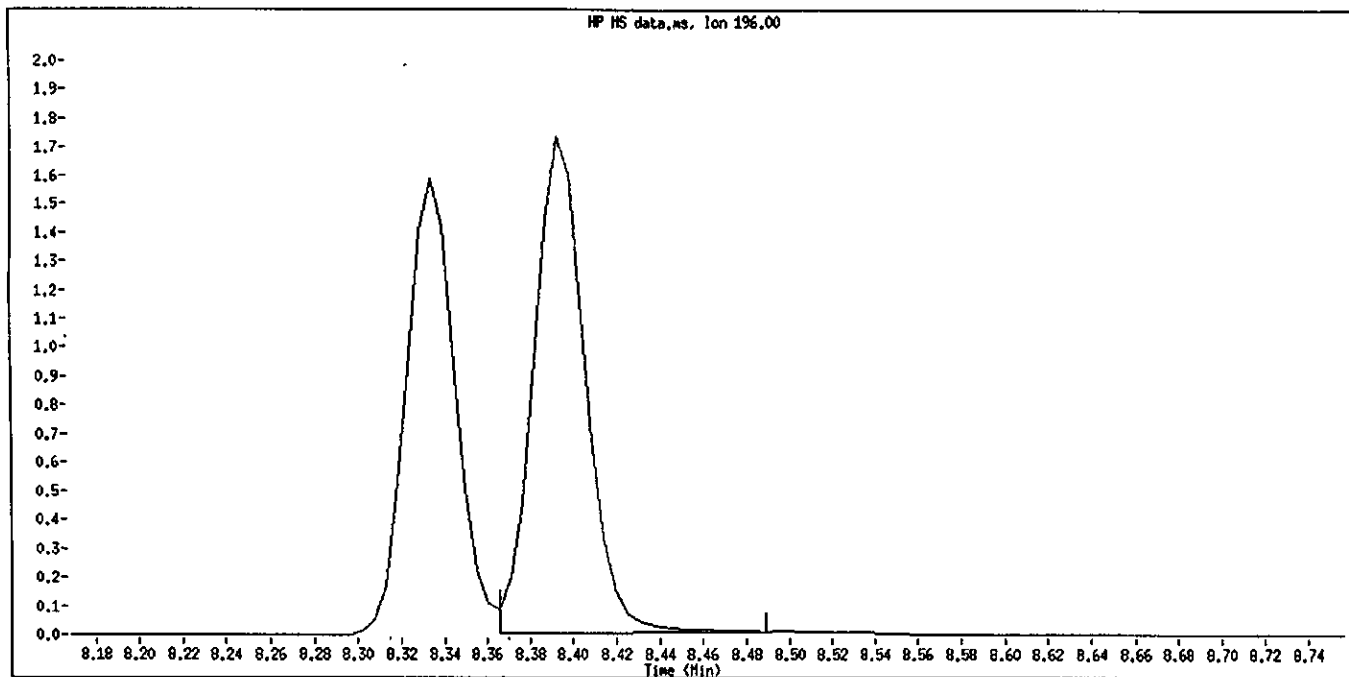


Manual Integration

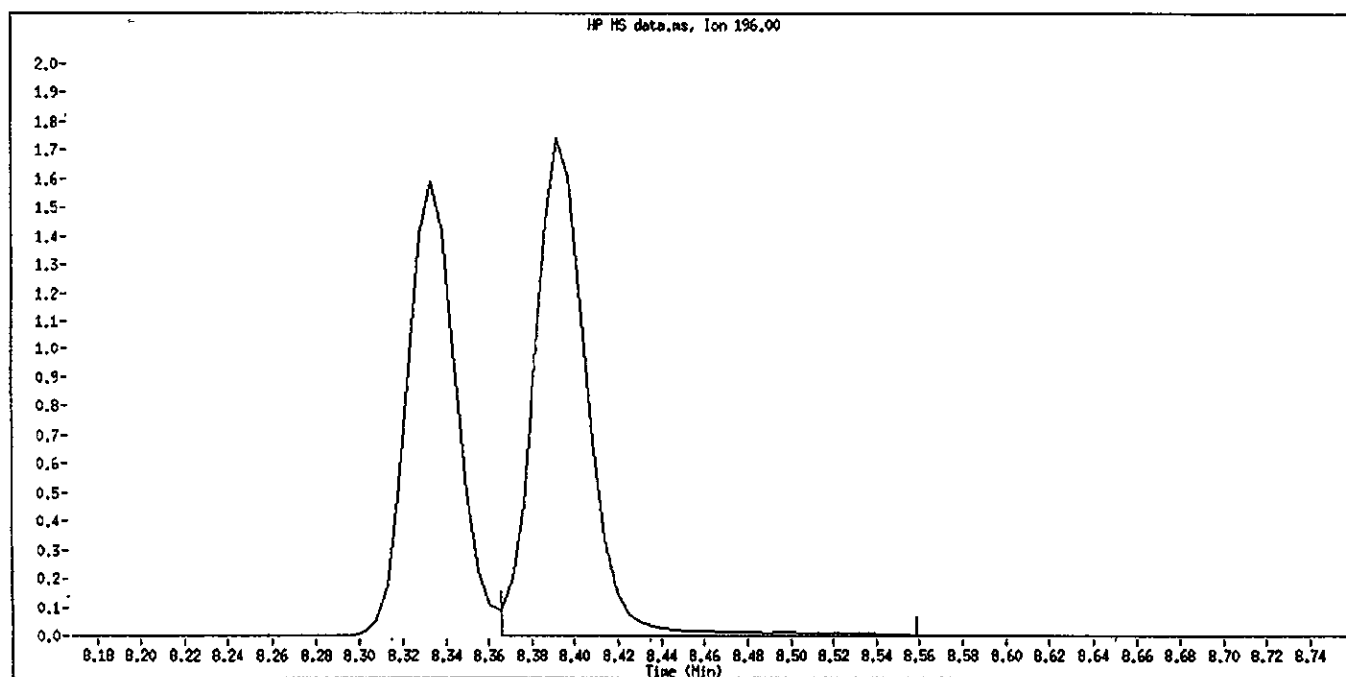
Manually Integrated By: BachaS

Manual Integration Reason Unknown

Data File Name: S0824002.D
Inj. Date and Time: 24-AUG-2000 19:30
Instrument ID: 71.1
Client ID: DF/S1/0228/SDC/026
Compound Name: 2,4,5-Trichlorophenol
CAS #: 95-95-4
Report Date: 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

669 438

Data File Name S0824002.D

Inj Date and Time 24-AUG-2000 19 30

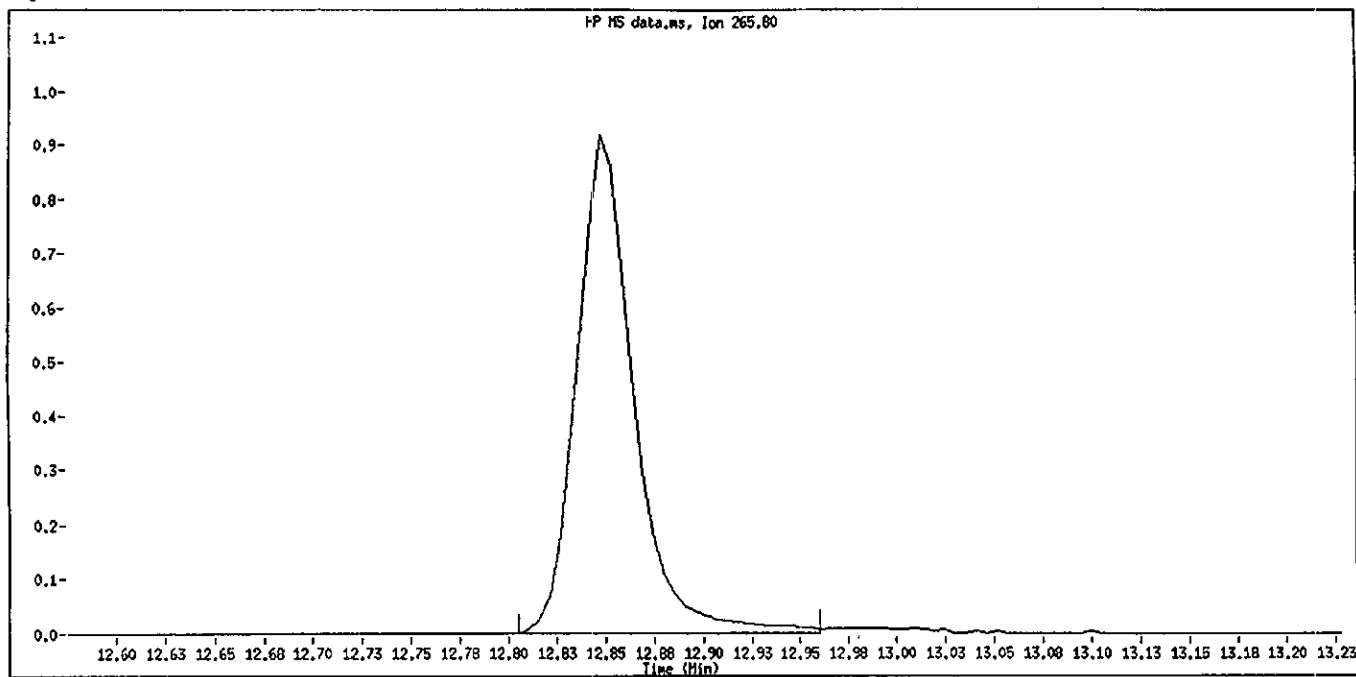
Instrument ID: 71.1

Client ID DF/S1/0228/SDC/026

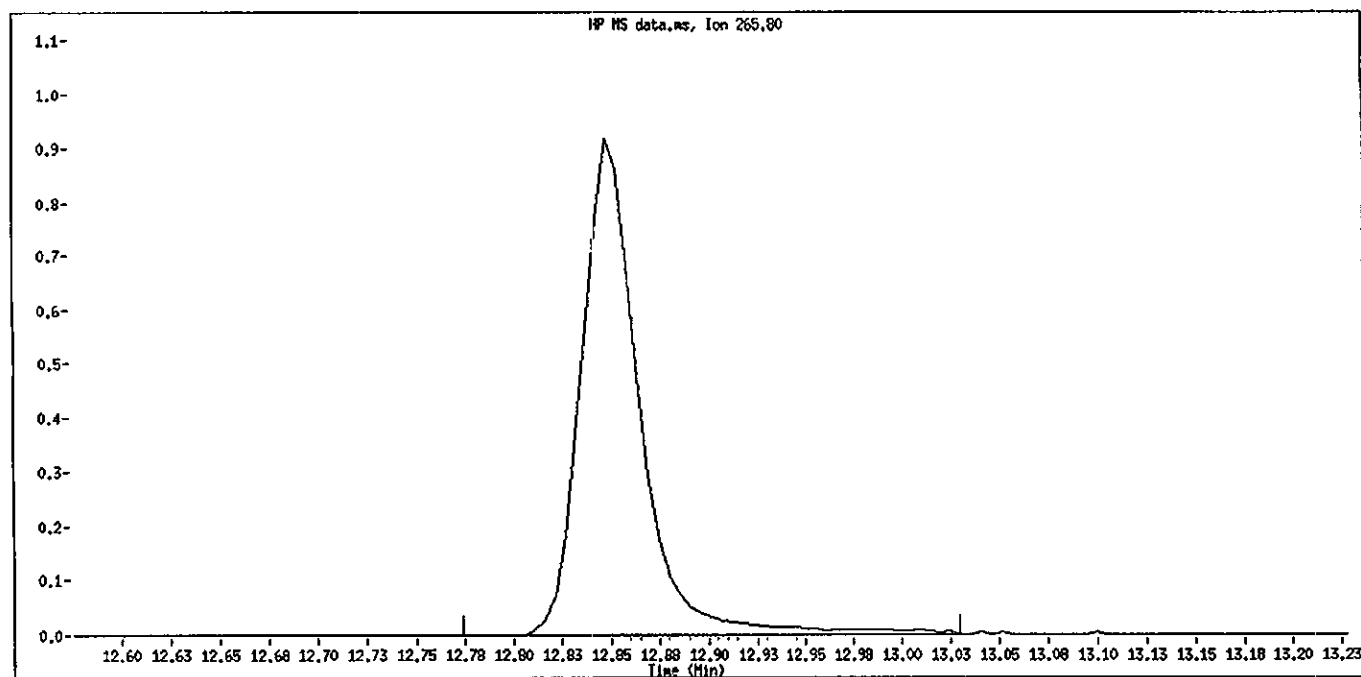
Compound Name: Pentachlorophenol

CAS #: 87-86-5

Report Date 08/25/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

**GC/MS SEMIVOLATILE
MISCELLANEOUS**

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

Committed To Your Success

रूप

[illegible]

Quanterra N:\QA\LOGBOOKS_PDF\AC_LL_EXT.DOC Jul-00

Log Book Number OP-00-0048

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669 442

Sequence Name: D:\HPCHEM\1\SEQUENCE\S082300.D
 Comment: STL PITT HP597371A LOG 2ul inj (100ul+1ul IS)
 Operator: 045183
 Data Path: D:\HPCHEM\1\DATA\s082300.b\
 Pre-Seq Cmd:
 Post-Seq Cmd:

WVP/SAB
E270
IS=194-183-6

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

Sample C 1917
AGL
↓
AGL
↓
Dis Km
↓
Kr/1917

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	C 1917	1 S0823DFT	DFTPP1	DFTPP050 (25ppb) 194-158-6
2	Sample	AGL	95 S0823CC2	EARLY	sstd50(25 ug/ml) 194-183-7 82
3	Sample		94 S0823CC1	EARLY	sstd20(10 ug/ml) 194-188-3 82
4	Sample		96 S0823CC3	EARLY	sstd80(40 ug/ml) 194-188-5 82
5	Sample		97 S0823CC4	EARLY	sstd120(60 ug/ml) 194-188-6 8
6	Sample		98 S0823CC5	EARLY	sstd160(80 ug/ml) 194-188-7 8
7	Sample		99 S0823VER	EARLY	ver50(25 ug/ml) 194-183-8 827
8	Sample	AGL	2 S0823001	EARLY	c0h160154-lcs 8/21/00 8270c t
9	Sample		3 S0823002	EARLY	c0h160154-sblk 8/21/00 8270c
10	Sample		4 ~~S0823003~~	EARLY	c0h160154-001ms 8/21/00 8270c
11	Sample	Dis Km	5 S0823004	EARLY	c0h160154-001msd 8/21/00 8270
12	Sample		6 S0823005	EARLY	c0h160154-001 8/21/00 8270c t
13	Sample		7 S0823006	EARLY	c0h160154-002 8/21/00 8270c t
14	Sample		8 S0823007	EARLY	c0h160154-003 8/21/00 8270c t
15	Sample		9 S0823008	EARLY	c0h170113-001 8/21/00 8270c t

669 443

Operator: 045183

Pre-Seq Cmd:

Post-Seq Cmd:

On A Barcode Mismatch

(X) Inject Anyway

() Reprocessing Only

() Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name

Sample	ID	Code	Sample	Code	Sample	Code	Sample	Code
1 Sample	1	S0824DFT	DFTPP1	DFTPP050	(25ppb)	194-158-6		
2 Sample	1	S0824DFT	DFTPP1	DFTPP050	(25ppb)	194-158-6		
3 Sample	2	S0824CCC	EARLY	sstd50	(25 ug/ml)	194-183-13	8	
4 Sample	96	S0824C01	EARLY	sstd20	(10 ug/ml)	194-188-3	82	
5 Sample	97	S0824C03	EARLY	sstd80	(40 ug/ml)	194-188-5	82	
6 Sample	98	S0824C04	EARLY	sstd120	(60 ug/ml)	194-188-6	8	
7 Sample	99	S0824C05	EARLY	sstd160	(80 ug/ml)	194-188-7	8	
8 Sample	3	S0824001	EARLY	c0h160154-001ms	8/21/00	8270c		
9 Sample	4	S0824002	EARLY	c0h160154-001msd	8/21/00	8270		
10 Sample	5	S0824003	EARLY	c0h160154-002	8/21/00	8270c	t	
11 Sample	6	S0824004	EARLY	c0h160154-003	8/21/00	8270c	t	
12 Sample	7	S0824005	EARLY	c0h170113-001	8/21/00	8270c	t	
13 Sample	8	S0824006	EARLY	c0h150136-sblk	8/16/00	sadva1		
14 Sample	9	S0824007	EARLY	c0h150136-lcs	8/16/00	sadva11		
15 Sample	10	S0824008	EARLY	c0h150136-004	8/16/00	sadva11		
16 Sample	11	S0824009	EARLY	c0h150136-004ms	8/16/00	sadva		
17 Sample	12	S0824010	EARLY	c0h150136-004msd	8/16/00	sadv		
18 Sample	13	S0824011	EARLY	c0h150136-001	8/16/00	sadva11		
19 Sample	14	S0824012	EARLY	c0h150136-002	8/16/00	sadva11		
20 Sample	17	S0824015	EARLY	c0h150136-006	8/16/00	sadva11		
21 Sample	18	S0824016	EARLY	c0h150136-007	8/16/00	sadva11		
22 Sample	20	S0824018	EARLY	c0h150136-009	8/16/00	sadva11		
23 Sample	21	S0824019	EARLY	c0h150136-010	8/16/00	sadva11		
24 Sample	22	S0824020	EARLY	c0h150136-011	8/16/00	sadva11		
25 Sample	19	S0824017	EARLY	c0h150136-008	8/16/00	sadva11		
26 Sample	15	S0824013	EARLY	c0h150136-003	8/16/00	sadva11		
27 Sample	16	S0824014	EARLY	c0h150136-005	8/16/00	sadva11		

Page: 1

669 444

Instrument Name: GC/MS Instrument #1
 Sequence File: D:\HPCHEM\1\SEQUENCE\S082500.S
 Comment: STL PITT HP597371A LOG 2ul inj (100ul+1ul IS)
 Operator: 045183
 Data Path: D:\HPCHEM\1\DATA\s082500.b\
 Method Path: D:\HPCHEM\1\METHODS\
VJP/SAB
II-144-183-6
EL70

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1459 1	S0825DF2	DFTPP1	DFTPP050 (25ppb) 194-158-6
2)	Sample	1459 2	S0825CC1	EARLY	sstd50(25 ug/ml) 194-183-14 8270/
3)	Sample	96	S0825C02	EARLY	sstd20(10 ug/ml) 194-188-3 8270/c
4)	Sample	97	S0825C03	EARLY	sstd80(40 ug/ml) 194-188-5 8270/c
5)	Sample	98	S0825C04	EARLY	sstd120(60 ug/ml) 194-188-6 8270/
6)	Sample	1459 99	S0825C05	EARLY	sstd160(80 ug/ml) 194-188-7 8270/
7)	Sample	100	S0825VER	EARLY	sstd50(25 ug/ml) 194-183-8 8270/c
8)	Sample	23	S0825021	EARLY	c0h160154-001 8/21/00 8270c tclp
9)	Sample	3	S0825001	EARLY	c0h160154-002 8/21/00 8270c tclp
10)	Sample	4	S0825002	EARLY	c0h150136-004ms 8/16/00 sadva11 8
11)	Sample	5	S0825003	EARLY	c0h150136-004msd 8/16/00 sadva11
12)	Sample	6	S0825004	EARLY	c0h150136-001 8/16/00 sadva11 827
13)	Sample	7	S0825005	EARLY	c0h150136-002 8/16/00 sadva11 827
14)	Sample	8	S0825006	EARLY	c0h150136-006 8/16/00 sadva11 827
15)	Sample	9	S0825007	EARLY	c0h150136-007 8/16/00 sadva11 827
16)	Sample	10	S0825008	EARLY	c0h150136-009 8/16/00 sadva11 827
17)	Sample	11	S0825009	EARLY	c0h150136-010 8/16/00 sadva11 827
18)	Sample	12	S0825010	EARLY	c0h150136-011 8/16/00 sadva11 827
19)	Sample	13	S0825011	EARLY	c0h150136-008 8/16/00 sadva11 827
20)	Sample	14	S0825012	EARLY	c0h150136-003 8/16/00 sadva11 827
21)	Sample	15	S0825013	EARLY	c0h150136-005 8/16/00 sadva11 827
22)	Sample	16	S0825014	EARLY	c0h180282-sblk 8/21/00 sadva14 82
23)	Sample	17	S0825015	EARLY	c0h180282-lcs 8/21/00 sadva14 827
24)	Sample	18	S0825016	EARLY	c0h180282-001 8/21/00 sadva14 827
25)	Sample	19	S0825017	EARLY	c0h180282-001ms 8/21/00 sadva14 8
26)	Sample	20	S0825018	EARLY	c0h180282-001msd 8/21/00 sadva14
27)	Sample	21	S0825019	EARLY	c0h180282-002 8/21/00 sadva14 827
28)	Sample	22	S0825020	EARLY	c0h180282-003 8/21/00 sadva14 827

Bytes Needed: 15669 Space on drive D: 1023932928
 Sequence Verification Done!

REQUESTED BY: GEEHRINK

METHOD: QL Base/Neutrals and Acids (8270C)

<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>
1A,B CLP1 17E	DHX40-1-03	___	260343	399411	A-59-QL	COH160154	001		SOLID	0	3 1
1A,B CLP1	DHX47-1-03	___	260344	399411	A-59-QL	COH160154	002		SOLID	0	3 1
1A,B CLP1	DHX4A-1-03	___	260345	399411	A-59-QL	COH160154	003		SOLID	0	3 1
1E CLP1	DJ0QL-1-03	___	260346	399411	A-59-QL	COH170113	001		SOLID	0	3 1

RELINQUISHED BY

Ken Seeh
B Trout

RECEIVED BY

B Trout
Ken Seeh

DATE/TIME

8/21/2000 07:45
8/21/2000 13:50

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

669 446

PESTICIDE DATA

**PESTICIDE
QC SUMMARY**

669 448

SW846 8081A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0H160154

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/S1/0228/SDC/028	95	88	00
02	DF/S1/0228/SDC/026	95	88	00
03	DF/S1/0228/SDC/027	100	90	00
04	METHOD BLK. DJ6M5101	100	89	00
05	LCS DJ6M5102	99	90	00
06	DF/S1/0228/SDC/026 D	97	87	00
07	DF/S1/0228/SDC/026 S	96	86	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 #: C0H210000

WO #: DJ6M5102

BATCH: 0234434

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

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

669 450

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: C0H160154

WO #: DHX40119

BATCH: 0234434

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

NOTES (S) :

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: ___0___ out of ___0___ outside limits

Spike Recovery: ___0___ out of ___5___ outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/S1/0228/SDC/026

Level: (low/med) LOW

Lot #: COH160154

WO #: DHX4011A

BATCH: 0234434

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

NOTES (S) :

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

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

COMMENTS:

669 452 SW846 8081A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DJ6M5101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D-B5582.d

Lot Number: C0H160154

Matrix: SOLID

Extraction Method: 1311/3510

Date Extracted: 08/21/00

Date Analyzed(1): 08/24/00

Date Analyzed(2): N/A

Time Analyzed(1): 02:37

Time Analyzed(2): N/A

Instrument ID(1): G/H

Instrument ID(2): N/A

GC Column(1): DB608/1701 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/S1/0228/SDC/028	DHX4A104	08/24/00	N/A
02	DF/S1/0228/SDC/026	DHX40104	08/24/00	N/A
03	DF/S1/0228/SDC/026	DHX4011A D	08/24/00	N/A
04	DF/S1/0228/SDC/026	DHX40119 S	08/24/00	N/A
05	DF/S1/0228/SDC/027	DHX47104	08/24/00	N/A
06	CHECK SAMPLE	DJ6M5102 C	08/24/00	N/A
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

**PESTICIDE
SAMPLE DATA**

669 454

UXE INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX40104

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 20

QC Batch: 0234434

Client Sample Id: DF/S1/0228/SDC/026

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

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5586.d
Lab Smp Id: DHX40104 Client Smp ID: DF/S1/0228/SDC/026
Inj Date : 24-AUG-2000 04:27
Operator : 1891 Inst ID: gc4.i
Smp Info : DHX40104, 5280-G.b, , PEST.sub, , ,
Misc Info : 160154001
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC043

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	40099	0.01754	0.001754 (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.		

669 456

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5586.d
 Report Date: 28-Aug-2000 11:15

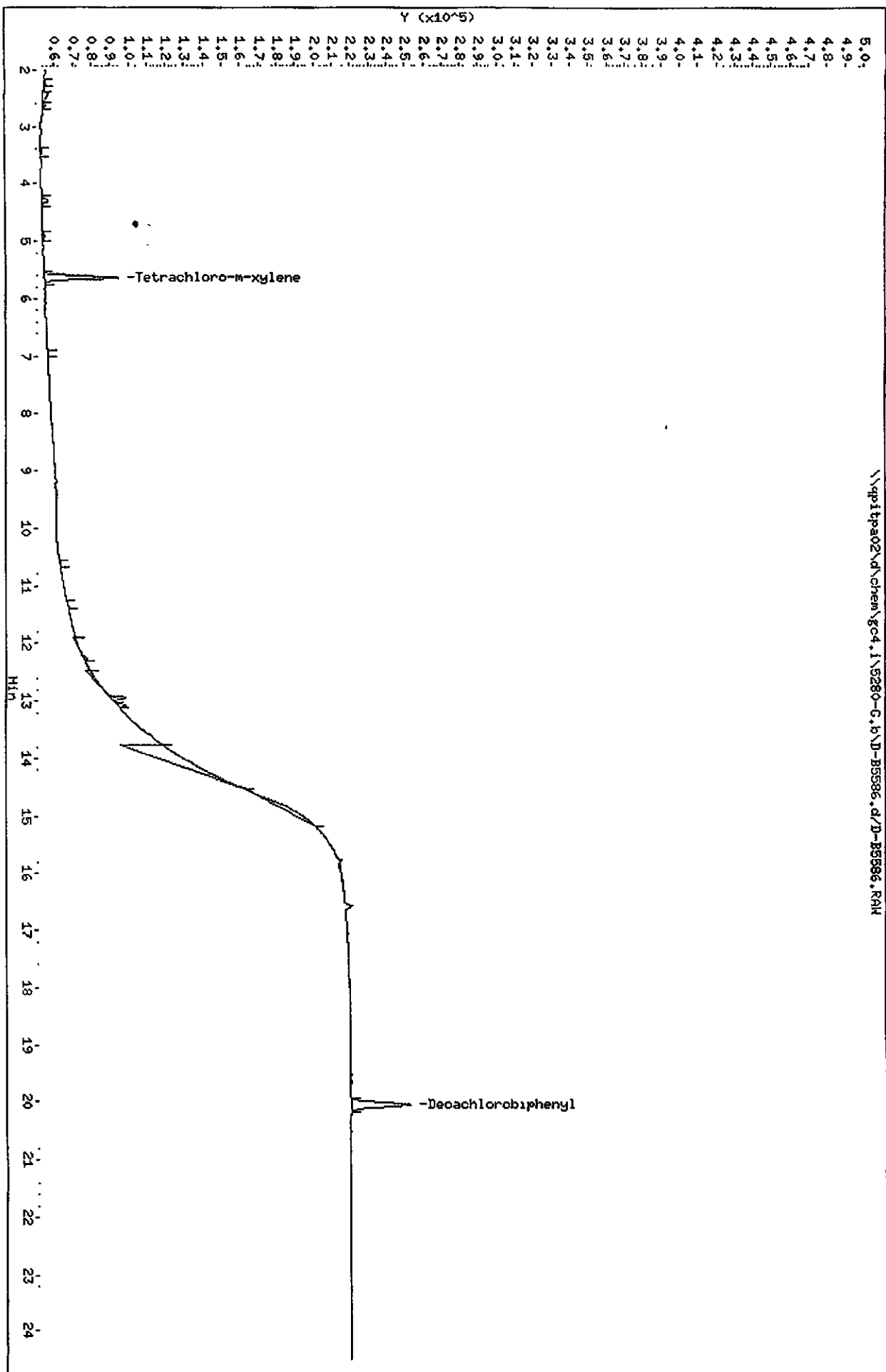
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
18 Toxaphene				Compound Not Detected		
21 4,4'-DDD				Compound Not Detected.		
22 Endosulfan II				Compound Not Detected.		
23 4,4'-DDT				Compound Not Detected.		
24 Endrin aldehyde				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	20 053	20.060	-0.007	32280	0 01909	0.001909(aR)

QC Flag Legend

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

Data File: \\ppitpa02\chem\gc4.1\5280-G.b\D-B5586.d
Date : 24-AUG-2000 04:27
Client ID: DF/SL/0228/SDC/026
Sample Info: DHX40104,5280-G.b,,PEST,sub,,,
Volume Injected (uL): 1.0
Column phase: DB1701

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



669 458

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX47104

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 21

QC Batch: 0234434

Client Sample Id: DF/S1/0228/SDC/027

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

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5587.d
 Report Date: 28-Aug-2000 11:15

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5587.d
 Lab Smp Id: DHX47104 Client Smp ID: DF/S1/0228/SDC/027
 Inj Date : 24-AUG-2000 04:55
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DHX47104,5280-G.b,,PEST.sub,,,
 Misc Info : 160154002
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
 Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
 Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC043

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Vt}/\text{Vo})/\text{Vi}$

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 Tetrachloro-m-xylene	5.633	5.633	0.000	41098	0.01798	0.001798 (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	14.506	14.506	0.000	1404	<0.0	0.00004135 (a)
20 Endrin				Compound Not Detected.		

669 460

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5587.d
 Report Date: 28-Aug-2000 11:15

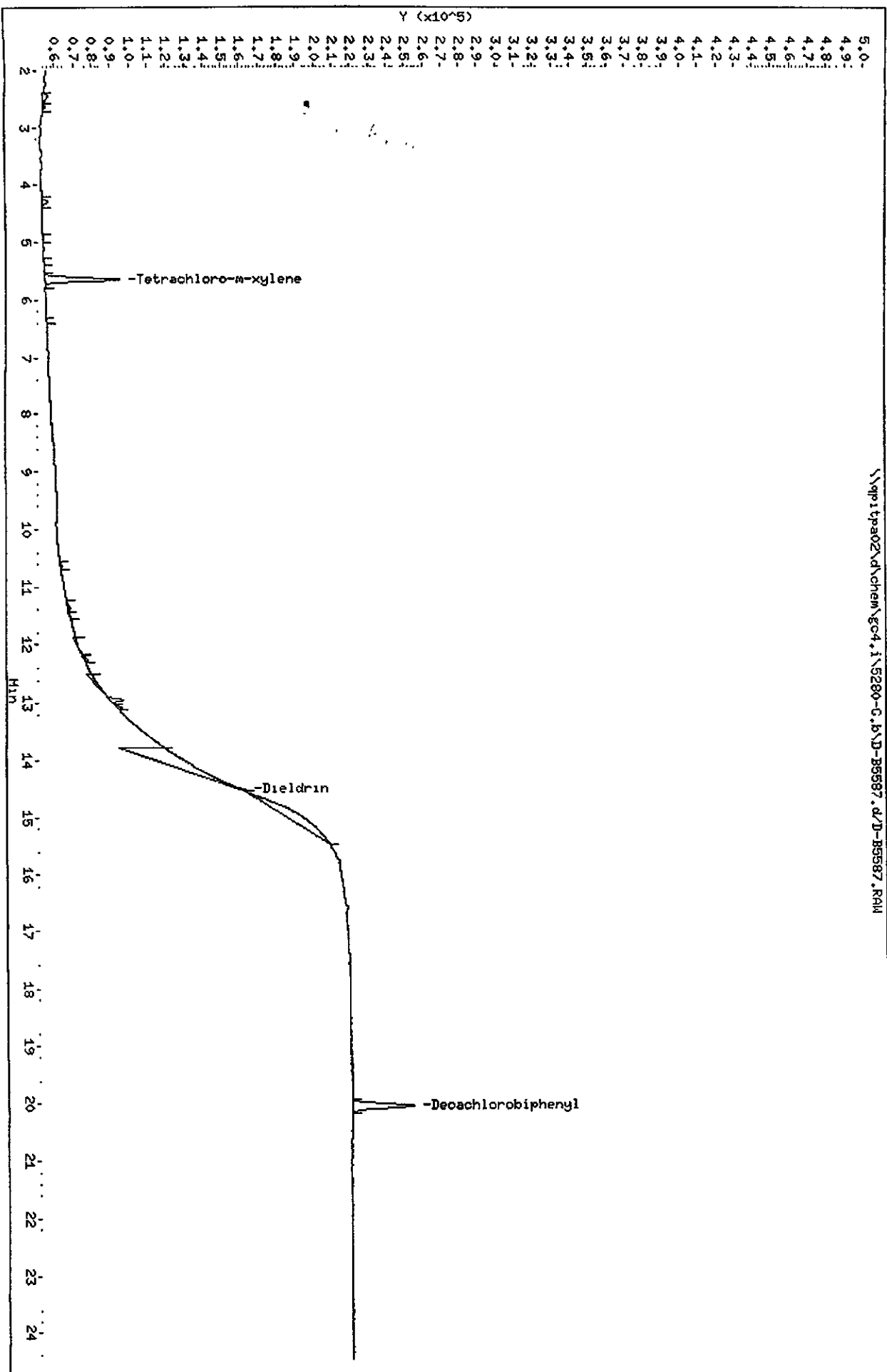
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
18 Toxaphene				Compound Not Detected.		
21 4,4'-DDD				Compound Not Detected.		
22 Endosulfan II				Compound Not Detected.		
23 4,4'-DDT				Compound Not Detected.		
24 Endrin aldehyde				Compound Not Detected.		
25 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	20.053	20.060	-0.007	33970	0.02009	0.002009 (aR)

QC Flag Legend

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

Data File: \\pp1tpa02\chem\gc04.1\5280-G.b.D-B5587.d
Date : 24-AUG-2000 04:55
Client ID: DF/SL/0228/SDC/027
Sample Info: DHX47104,5280-G.b.,PEST.sub,,
Volume Injected (uL): 1.0
Column phase: DB1701

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



UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX4A104

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 15

QC Batch: 0234434

Client Sample Id: DF/S1/0228/SDC/028

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

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5588.d
Lab Smp Id: DHX4A104 Client Smp ID: DF/S1/0228/SDC/028
Inj Date : 24-AUG-2000 05:23
Operator : 1891 Inst ID: gc4.i
Smp Info : DHX4A104,5280-G.b,, PEST.sub,,,
Misc Info : 160154003
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC043

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.626	5.633	-0.007	40125	0.01755	0.001755 (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	14.513	14.506	0.007	1222	0.00036	0.00003599 (a)
20 Endrin				Compound Not Detected.		

669 464

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5588.d

Report Date: 28-Aug-2000 11:15

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	20 053	20.060	-0.007	32099	0.01898	0 001898(aR)

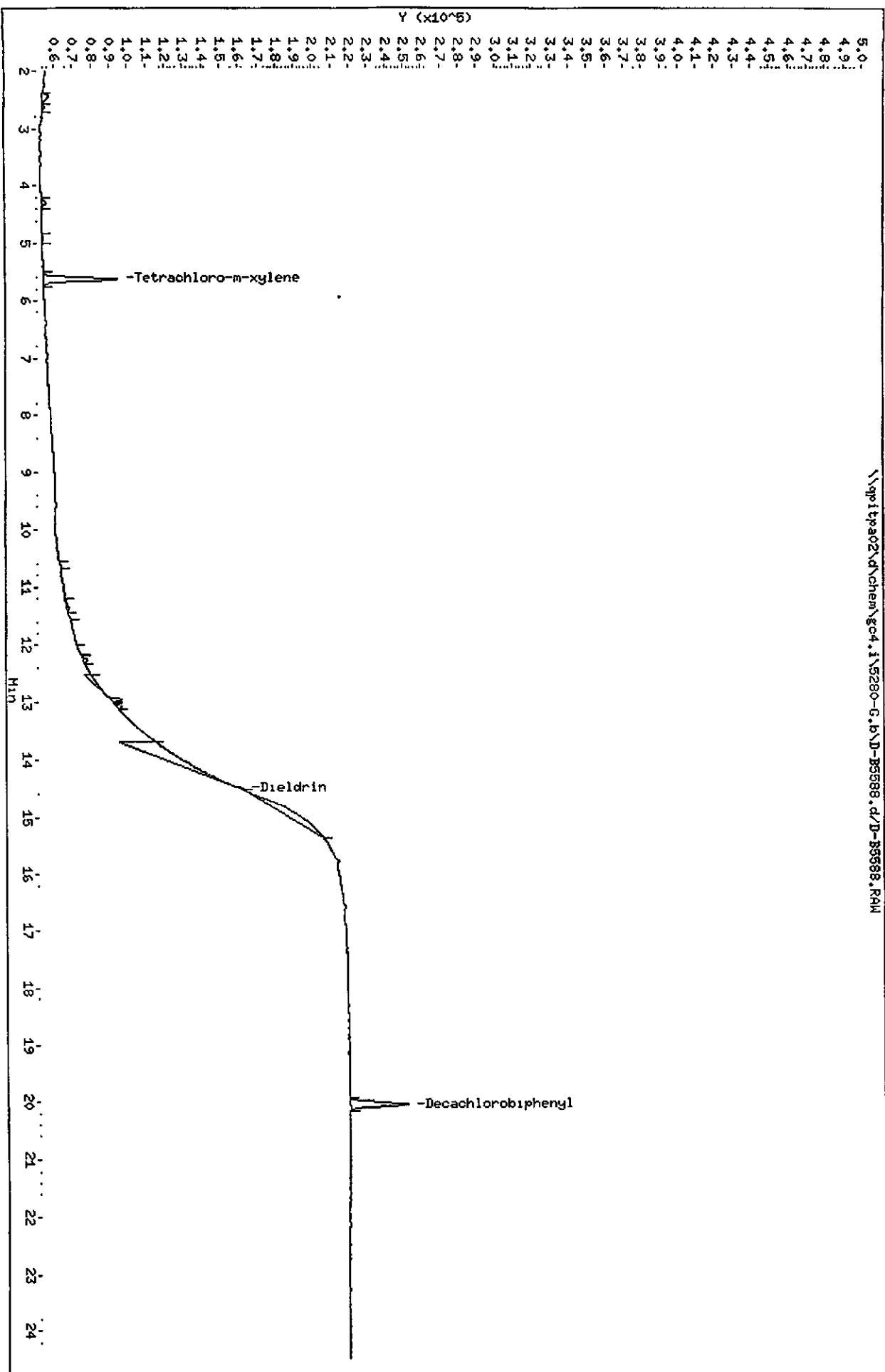
QC Flag Legend

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

R - Spike/Surrogate failed recovery limits.

Data File: \\pp1tpa02\chem\gc4.i\5280-G.b\D-B5588.d
Date: 24-AUG-2000 05:23
Client ID: DF/S1/0228/SDC/028
Sample Info: DMX4A104,5280-G.b,PEST,sub,,
Volume Injected (uL): 1.0
Column phase: DB1701

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



669 466

**PESTICIDE
CALIBRATION DATA**

Report Date : 28-Aug-2000 11:49

6D
589046
DB70)

669 467

STL - Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Quant Method : ESTD Target Version : 4.04
Last Update : 28-Aug-2000 11:31 Number of Cpnds : 31
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
-----	-----
Initial:Start Threshold	90.000000
Initial:End Threshold	45.000000
Initial:Area Threshold	900.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	1.000000
Initial:Negative Peaks	OFF
Initial:Tension	0.000000
15.000:Start Threshold	672.000000
15.000:End Threshold	336.000000
15.000:Area Threshold	6720.000000

Compound	RT	RT Window	RF
\$ 1 Tetrachloro-m-xylene	5.633	5.583-5.683	2.29e+006
58 MIREX	16.827	16.777-16.877	1.78e+006
2 Diallate A	7.087	7.037-7.137	9.30e+004
3 Diallate B	7.667	7.617-7.717	2.03e+004
4 HEXACHLORO BENZENE	6.987	6.937-7.037	4.59e+006
5 alpha-BHC	8.380	8.330-8.430	3.06e+006
6 gamma-BHC (Lindane)	9.760	9.710-9.810	2.65e+006
7 beta-BHC	12.187	12.137-12.237	1.66e+006
8 delta-BHC	12.860	12.810-12.910	3.44e+006
9 Chlordane	10.093	10.043-10.143	8.23e+004
	10.687	10.637-10.737	1.74e+005
	13.967	13.917-14.017	3.26e+005
	14.073	14.023-14.123	4.55e+005
10 Heptachlor	10.687	10.637-10.737	2.94e+006
11 Aldrin	11.660	11.610-11.710	2.85e+006
12 Heptachlor epoxide	13.360	13.310-13.410	3.31e+006
13 gamma-Chlordane	13.967	13.917-14.017	3.39e+006
14 alpha-Chlordane	14.067	14.017-14.117	3.31e+006
15 Endosulfan I	13.907	13.857-13.957	3.20e+006
16 4,4'-DDE	14.220	14.170-14.270	3.37e+006
17 Dieldrin	14.507	14.457-14.557	3.40e+006

669 468

Report Date : 28-Aug-2000 11:49

4D
58904B
DB701

STL - Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

Compound	RT	RT Window	RF
18 Toxaphene	15.253	15.203-15.303	3.96e+004
	15.560	15.510-15.610	4.93e+004
	16.020	15.970-16.070	5.17e+004
	16.753	16.703-16.803	4.68e+004
19 Isodrin	12.807	12.757-12.857	3.02e+006
20 Endrin	14.820	14.770-14.870	3.16e+006
21 4,4'-DDD	15.367	15.317-15.417	2.46e+006
22 Endosulfan II	15.520	15.470-15.570	2.86e+006
23 4,4'-DDT	15.660	15.610-15.710	2.48e+006
24 Endrin aldehyde	16.187	16.137-16.237	1.34e+006
25 Methoxychlor	16.700	16.650-16.750	1.17e+006
26 Endosulfan sulfate	16.773	16.723-16.823	1.75e+006
27 Endrin ketone	17.740	17.690-17.790	2.06e+006
28 Chlorobenzilate	15.133	15.083-15.183	1.73e+005
29 Kepone	17.753	17.703-17.803	3.85e+003
\$ 30 Decachlorobiphenyl	20.060	20.010-20.110	1.69e+006

Report Date : 10-Aug-2000 10:15

6E
589046
06179

669 469

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
-----	-----	-----	-----	-----	-----	-----	-----
58 MIREX	1717200	1905900	1858960	1704380	1699680	1777224	5.496
2 Diallylate A	103950	93024	99998	82384	85644	93000	9.850
3 Diallylate 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

669 470

Report Date : 10-Aug-2000 10:15

UDE
589046 8/10/00
10/10/01

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~~	~~172748~~	~~11.057~~
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

669 471

Lab Name: STL-PITTSBURGH Contract:
 Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: 4140-G
 GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 08/07/00 08/08/00

EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 08/07/00
 Lab Sample ID (PEM): EVALB Time Analyzed : 1525

PEM COMPOUND	RT	RT WINDOW		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): _____

669 472

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
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
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): _____

FORM VII PEST-1

OLM03.0

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

669 473

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G
 GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 08/07/00 08/08/00

EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 08/23/00
 Lab Sample ID (PEM): EVALB Time Analyzed : 0930

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.82	14.77	14.87	0.02254	0.02500	-9.8
4,4'-DDT	15.66	15.61	15.71	0.02395	0.02500	-4.2

4,4'-DDT % breakdown (1): ~~2.07~~ 2.8 Endrin % breakdown (1): 0.00
 Combined % breakdown (1): ~~2.07~~ 2.8

um
8/29/00

FORM VII PEST-1

OLM03.0

669 474

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G
 GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 08/07/00 08/08/00

EPA Sample No. (PIBLK): _____ Date Analyzed : _____

Lab Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No. (PEM): _____ Date Analyzed : 08/23/00

Lab Sample ID (PEM): EVALB Time Analyzed : 2159

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.82	14.77	14.87	0.02268	0.02500	-9.3
4,4'-DDT	15.66	15.61	15.71	0.02391	0.02500	-4.4

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

Endrin % breakdown (1): 0.00

Combined % breakdown (1): _____

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5546.d
Report Date: 28-Aug-2000 10:42

587046
08/27/01

669 475

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 23-AUG-2000 09:58
Lab File ID: D-B5546.d Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Analysis Type: Init. Cal. Times: 15:52 01:35
Lab Sample ID: MEDTOX Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
18 Toxaphene(1)	39627	41452	0.010	4.6
(2)	49318	51889	0.010	5.2
(3)	51662	51653	0.010	-0.0
(4)	46756	45873	0.010	-1.9
\$ 1 Tetrachloro-m-xylene	2286274	2432280	0.000	6.4
\$ 30 Decachlorobiphenyl	1691118	1767680	0.010	4.5

669 476

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5547.d
Report Date: 28-Aug-2000 10:3312
58046
DB101

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 23-AUG-2000 10:26
Lab File ID: D-B5547.d Init. Cal. Date(s): 07-AUG-2000 08-AUG-2000
Analysis Type: Init. Cal. Times: 15:52 01:35
Lab Sample ID: MEDCHLOR Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
9 Chlordane(1)	82268	90056	0.010	9.5
(2)	173988	185328	0.010	6.5
(3)	326140	335012	0.010	2.7
(4)	455048	454768	0.010	-0.1
\$ 1 Tetrachloro-m-xylene	2286274	2506400	0.000	9.6
\$ 30 Decachlorobiphenyl	1691118	1804360	0.010	6.7

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5548.d
Report Date: 28-Aug-2000 10:33

12
589043
DB1207

669 477

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 23-AUG-2000 10:54
Lab File ID: D-B5548.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\5280-G.b\PESTB.m

COMPOUND	RRF	RF0	MIN	MAX
RRF	RF0	RRF	%D	%D
1 Tetrachloro-m-xylene	2286274	2457880	0.000	7.5
5 alpha-BHC	3064352	3275640	0.010	6.9
6 gamma-BHC (Lindane)	2652162	2893720	0.010	9.1
10 Heptachlor	2939876	3144200	0.010	7.0
15 Endosulfan I	3195984	3393120	0.010	6.2
17 Dieldrin	3395688	3568680	0.010	5.1
20 Endrin	3161848	2983760	0.010	-5.6
21 4,4'-DDD	2458664	2523760	0.010	2.6
23 4,4'-DDT	2484688	2414760	0.010	-2.8
25 Methoxychlor	1167724	1157240	0.010	-0.9
30 Decachlorobiphenyl	1691118	1822160	0.010	7.7

669 478

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5549.d

Report Date: 28-Aug-2000 10:33

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061701

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i

Injection Date: 23-AUG-2000 11:21

Lab File ID: D-B5549.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\5280-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
11 Aldrin	2848242	3039800	0.010	6.7 15.0
7 beta-BHC	1662692	1705040	0.010	2.5 15.0
8 delta-BHC	3435360	3235560	0.010	-5.8 15.0
12 Heptachlor epoxide	3313588	3540520	0.010	6.8 15.0
13 gamma-Chlordane	3392070	3545160	0.010	4.5 15.0
14 alpha-Chlordane	3307730	3486280	0.010	5.4 15.0
16 4,4'-DDE	3368194	3558040	0.010	5.6 15.0
22 Endosulfan II	2862696	2822720	0.010	-1.4 15.0
24 Endrin aldehyde	1340518	1378280	0.010	2.8 15.0
26 Endosulfan sulfate	1751636	1597600	0.010	-8.8 15.0
27 Endrin ketone	2064352	2139560	0.010	3.6 15.0

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5570.d
Report Date: 28-Aug-2000 10:38

58704B
061701

669 479

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 23-AUG-2000 21:04
Lab File ID: D-B5570.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\5280-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
1 Tetrachloro-m-xylene	2286274	2414920	0.000	5.6
5 alpha-BHC	3064352	3206080	0.010	4.6
6 gamma-BHC (Lindane)	2652162	2776320	0.010	4.7
10 Heptachlor	2939876	2965040	0.010	0.9
15 Endosulfan I	3195984	3208680	0.010	0.4
17 Dieldrin	3395688	3430960	0.010	1.0
20 Endrin	3161848	2991040	0.010	-5.4
21 4,4'-DDD	2458664	2466640	0.010	0.3
23 4,4'-DDT	2484688	2403200	0.010	-3.3
25 Methoxychlor	1167724	1168980	0.010	0.1
30 Decachlorobiphenyl	1691118	1784200	0.010	5.5

669 480

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5571.d
 Report Date: 28-Aug-2000 10:38

STL - Pittsburgh

7E
 589048
 061701

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 23-AUG-2000 21:32
 Lab File ID: D-B5571.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\5280-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	RRF	%D	MAX
11 Aldrin	2848242	2968560	0.010	4.2	15.0	
7 beta-BHC	1662692	1640360	0.010	-1.3	15.0	
8 delta-BHC	3435360	3299720	0.010	-3.9	15.0	
12 Heptachlor epoxide	3313588	3358440	0.010	1.4	15.0	
13 gamma-Chlordane	3392070	3389840	0.010	-0.1	15.0	
14 alpha-Chlordane	3307730	3339520	0.010	1.0	15.0	
16 4,4'-DDE	3368194	3419760	0.010	1.5	15.0	
22 Endosulfan II	2862696	2768840	0.010	-3.3	15.0	
24 Endrin aldehyde	1340518	1332280	0.010	-0.6	15.0	
26 Endosulfan sulfate	1751636	1721160	0.010	-1.7	15.0	
27 Endrin ketone	2064352	2158640	0.010	4.6	15.0	

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5593.d
Report Date: 28-Aug-2000 11:11

7E
589046
DB1701

669 481

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 24-AUG-2000 07:41
Lab File ID: D-B5593.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\5280-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
\$ 1 Tetrachloro-m-xylene	2286274	2434280	0.000	6.5	15.0
5 alpha-BHC	3064352	3232760	0.010	5.5	15.0
6 gamma-BHC (Lindane)	2652162	2810320	0.010	6.0	15.0
10 Heptachlor	2939876	3054320	0.010	3.9	15.0
15 Endosulfan I	3195984	3285360	0.010	2.8	15.0
17 Dieldrin	3395688	3589840	0.010	5.7	15.0
20 Endrin	3161848	2948520	0.010	-6.7	15.0
21 4,4'-DDD	2458664	2444360	0.010	-0.6	15.0
23 4,4'-DDT	2484688	2401520	0.010	-3.3	15.0
25 Methoxychlor	1167724	1161360	0.010	-0.5	15.0
\$ 30 Decachlorobiphenyl	1691118	1825040	0.010	7.9	15.0

669 482

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 589048
 061701

 Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5594.d
 Report Date: 28-Aug-2000 11:12

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 24-AUG-2000 08:09
 Lab File ID: D-B5594.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\5280-G.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
11 Aldrin	2848242	2973640	0.010	4.4 15.0
7 beta-BHC	1662692	1668520	0.010	0.4 15.0
8 delta-BHC	3435360	3234040	0.010	-5.9 15.0
12 Heptachlor epoxide	3313588	3490760	0.010	5.3 15.0
13 gamma-Chlordane	3392070	3495760	0.010	3.1 15.0
14 alpha-Chlordane	3307730	3445280	0.010	4.2 15.0
16 4,4'-DDE	3368194	3452080	0.010	2.5 15.0
22 Endosulfan II	2862696	2805120	0.010	-2.0 15.0
24 Endrin aldehyde	1340518	1343640	0.010	0.2 15.0
26 Endosulfan sulfate	1751636	1685800	0.010	-3.8 15.0
27 Endrin ketone	2064352	2118600	0.010	2.6 15.0

8D
PESTICIDE ANALYTICAL SEQUENCE

669 483

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: COH160154

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	LOWIX	08/07/00	1648		
05	MLOWIX	08/07/00	1716		
06	MEDIX	08/07/00	1743		
07	MHIGHIX	08/07/00	1811		
08	HIGHIX	08/07/00	1839		
09	LOWF	08/07/00	1907		
10	MLOWF	08/07/00	1934		
11	MEDF	08/07/00	2002		
12	MHIGHF	08/07/00	2030		
13	HIGHF	08/07/00	2058		
14	LOWA	08/07/00	2125	5.73*	20.27*
15	MLOWA	08/07/00	2153	5.73*	20.27*
16	MEDA	08/07/00	2221	5.73*	20.27*
17	MHIGHA	08/07/00	2249	5.74*	20.27*
18	HIGHA	08/07/00	2316	5.73*	20.27*
19	LOWB	08/07/00	2344		
20	MLOWB	08/08/00	0012		
21	MEDB	08/08/00	0039		
22	MHIGHB	08/08/00	0107		
23	HIGHB	08/08/00	0135		
24	2ND A	08/08/00	0203	5.73*	20.26*
25	2ND B	08/08/00	0230		
26	EVALB	08/08/00	0258	5.75*	20.27*
27	EVALB	08/23/00	0930	5.63	20.06
28	MEDTOX	08/23/00	0958	5.63	20.06
29	MEDCHLOR	08/23/00	1026	5.63	20.06
30	MEDA	08/23/00	1054	5.63	20.06
31	MEDB	08/23/00	1121		
32	MEDA	08/23/00	2104	5.63	20.06

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.

669 484

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: C0H160154

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	MEDB	08/23/00	2132		
02	EVALB	08/23/00	2159	5.63	20.06
03	PBLK4434	DJ6M5101	08/24/00	0237	5.63
04	LCS4434	DJ6M5102	08/24/00	0304	5.63
05	DF/S1/0228/S	DHX40119	08/24/00	0332	5.63
06	DF/S1/0228/S	DHX4011A	08/24/00	0400	5.63
07	DF/S1/0228/S	DHX40104	08/24/00	0427	5.63
08	DF/S1/0228/S	DHX47104	08/24/00	0455	5.63
09	DF/S1/0228/S	DHX4A104	08/24/00	0523	5.63
10	MEDA	08/24/00	0741	5.63	20.05
11	MEDB	08/24/00	0809		
12	EVALB	08/24/00	0837	5.63	20.05
13	<i>m 8/29/00</i>				
14					
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32					

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.

Data File: \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5151.d
 Report Date: 10-Aug-2000 10:41

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

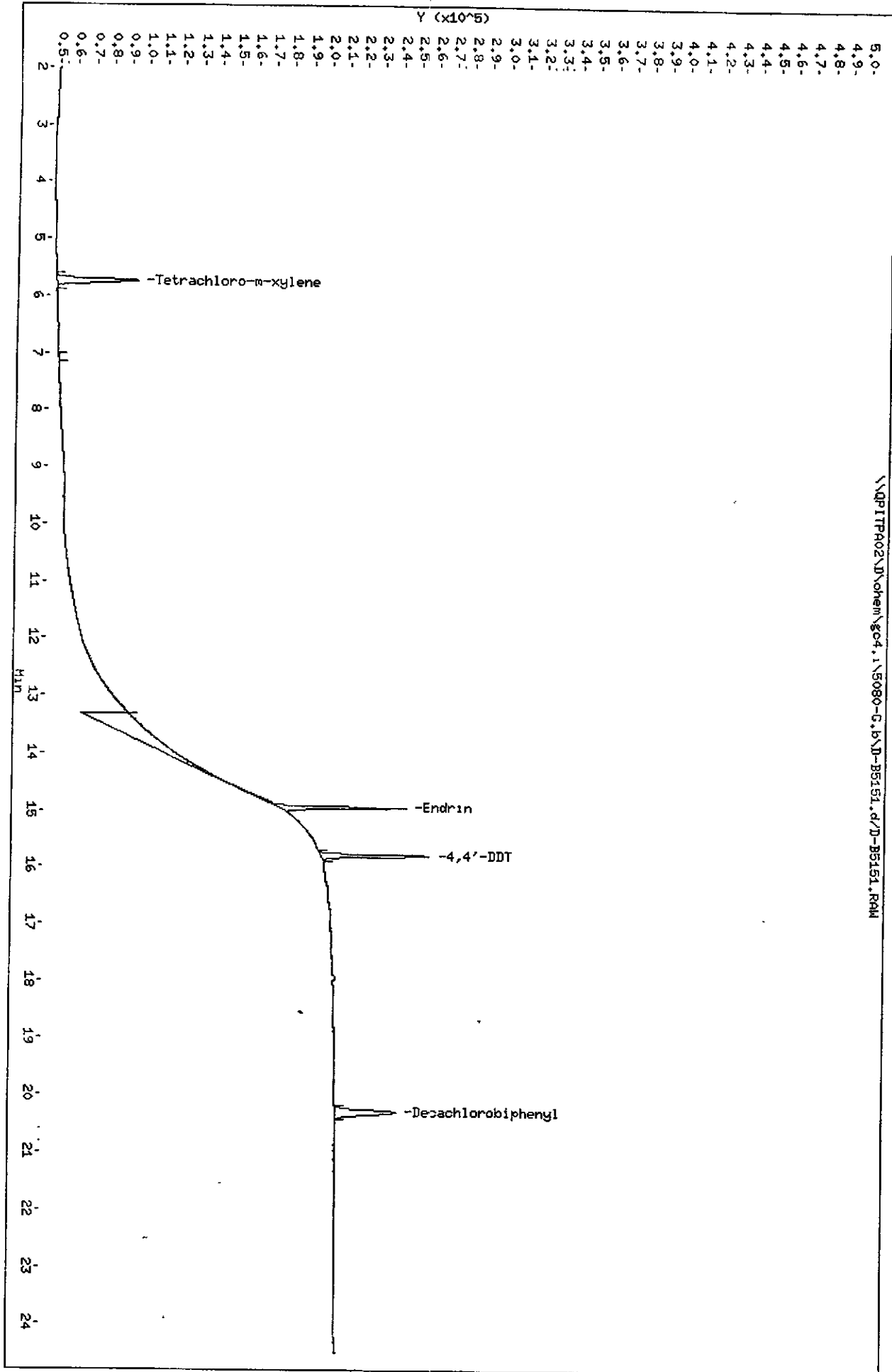
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5 726	5 720	0 006	45388	0 01985	0 01985(R)
16 4,4'-DDE				Compound Not Detected		
20 Endrin	14 913	14 913	0 000	70927	0 02243	0 02243
21 4,4'-DDD				Compound Not Detected.		
23 4,4'-DDT	15 766	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: \\QPITPA02\chem\gc4.1\5080-G.b\D-B5151.d
Date : 07-AUG-2000 15:25
Client ID:
Sample Info: EVALB,5080-G.b,EVALBR,sub,,3,1
Column phase: DB1701

Instrument: GC4.1
Operator: 1891
Column diameter: 0.53



Data File: \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5152.d
 Report Date: 10-Aug-2000 10:41

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.i
 Smp Info : MEDTOX,5080-G.b,,1-TOX.sub,,1,3
 Misc Info : 190-98-12
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\5080-G.b\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

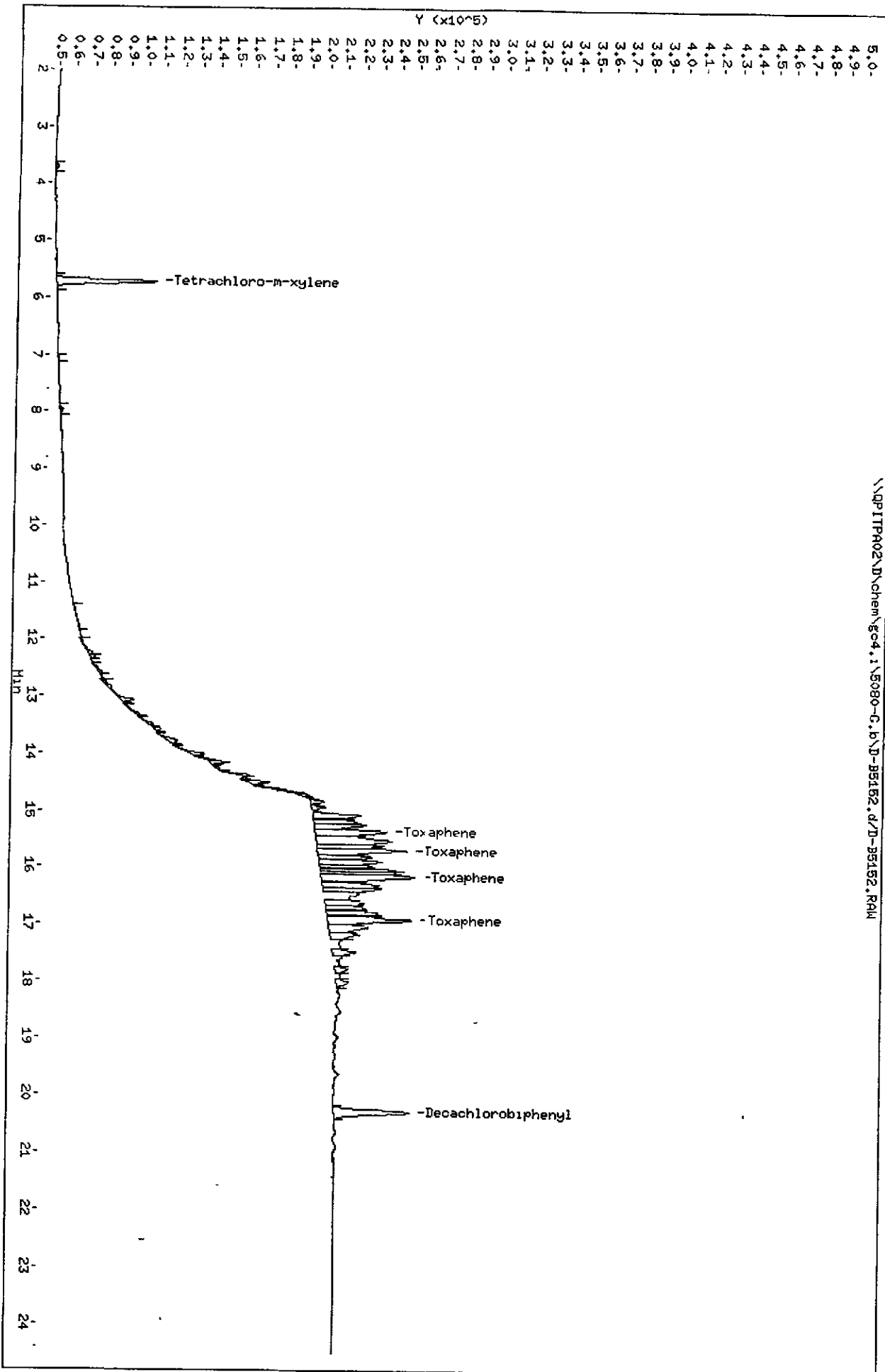
QC Flag Legend

M - Compound response manually integrated.

Data File: \\NPITPA02\chem\gc4,1\5080-G.b\D-B5152.d
 Date: 07-AUG-2000 15:52
 Client ID:
 Sample Info: HEDTOX, 5080-G.b, 1-TOX, sub, 1,3
 Column phase: DB1701

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

\\NPITPA02\chem\gc4,1\5080-G.b\D-B5152.d\D-B5152.RAW



STL Pittsburgh

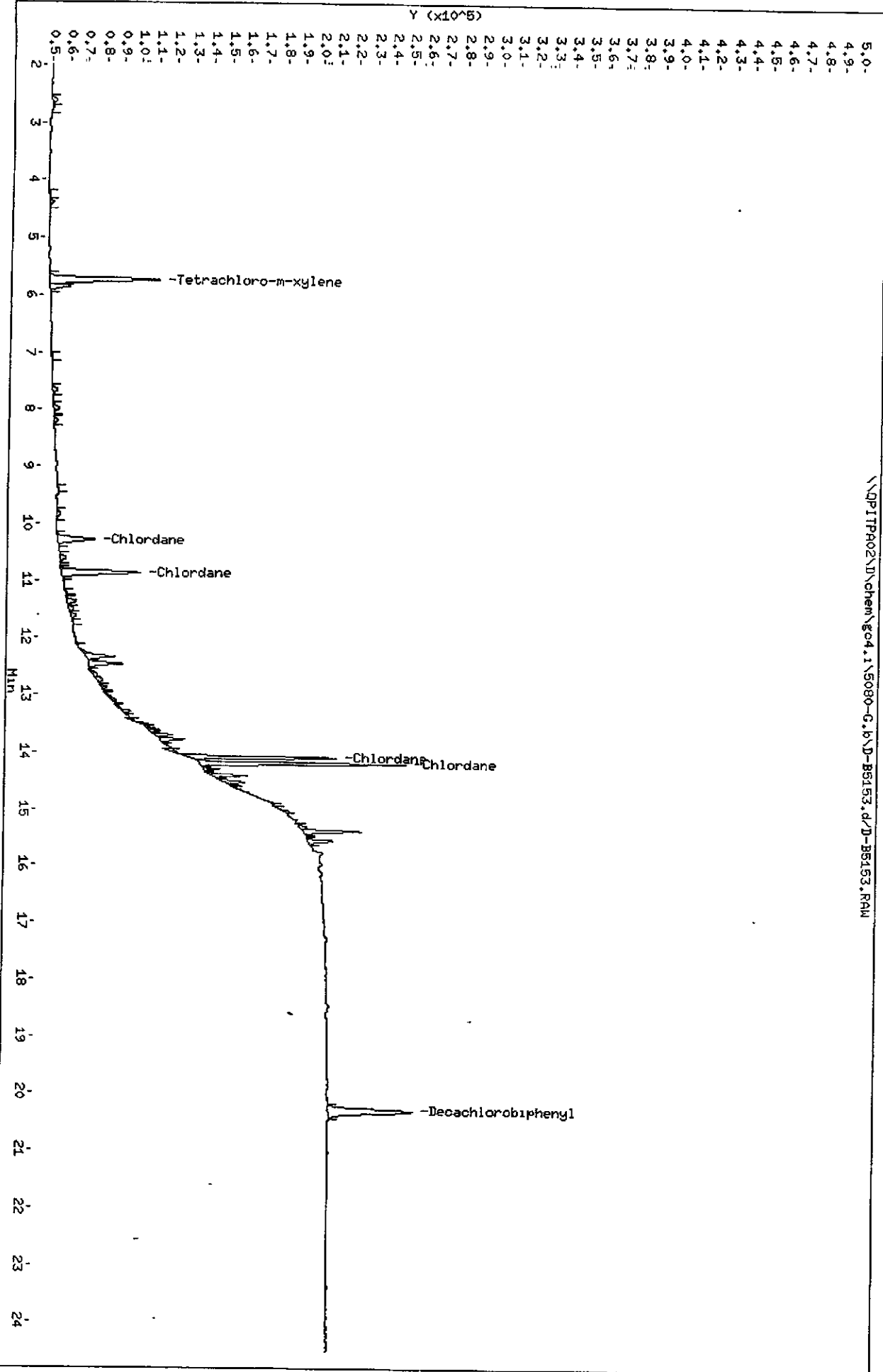
Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5153.d
Lab Smp Id: MEDCHLOR
Inj Date : 07-AUG-2000 16:20
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDCHLOR,5080-G.b,,2-CHLO.sub,,1,3
Misc Info : 190-85-10
Comment :
Method : \\QPITPA02\D\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj 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

669 490

Data File: \\QPI1P402\chem\gc4.1\5080-G.b\D-B5153.d
 Date : 07-AUG-2000 16:20
 Client ID:
 Sample Info: MEDCHLOR,5080-G.b,,2-CHLO.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-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	14.036	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	0.010001
\$ 30 Decachlorobiphenyl	20.266	20.280	-0.014	8347	0.00500	0.004989

Data File: \\QPI1P002\chem\gc4.1\5080-G.b\B5164.d
Date: 07-AUG-2000 21:25

Client ID:

Sample Info: L0M0,5080-G.b,3-IND0,sub,1,1

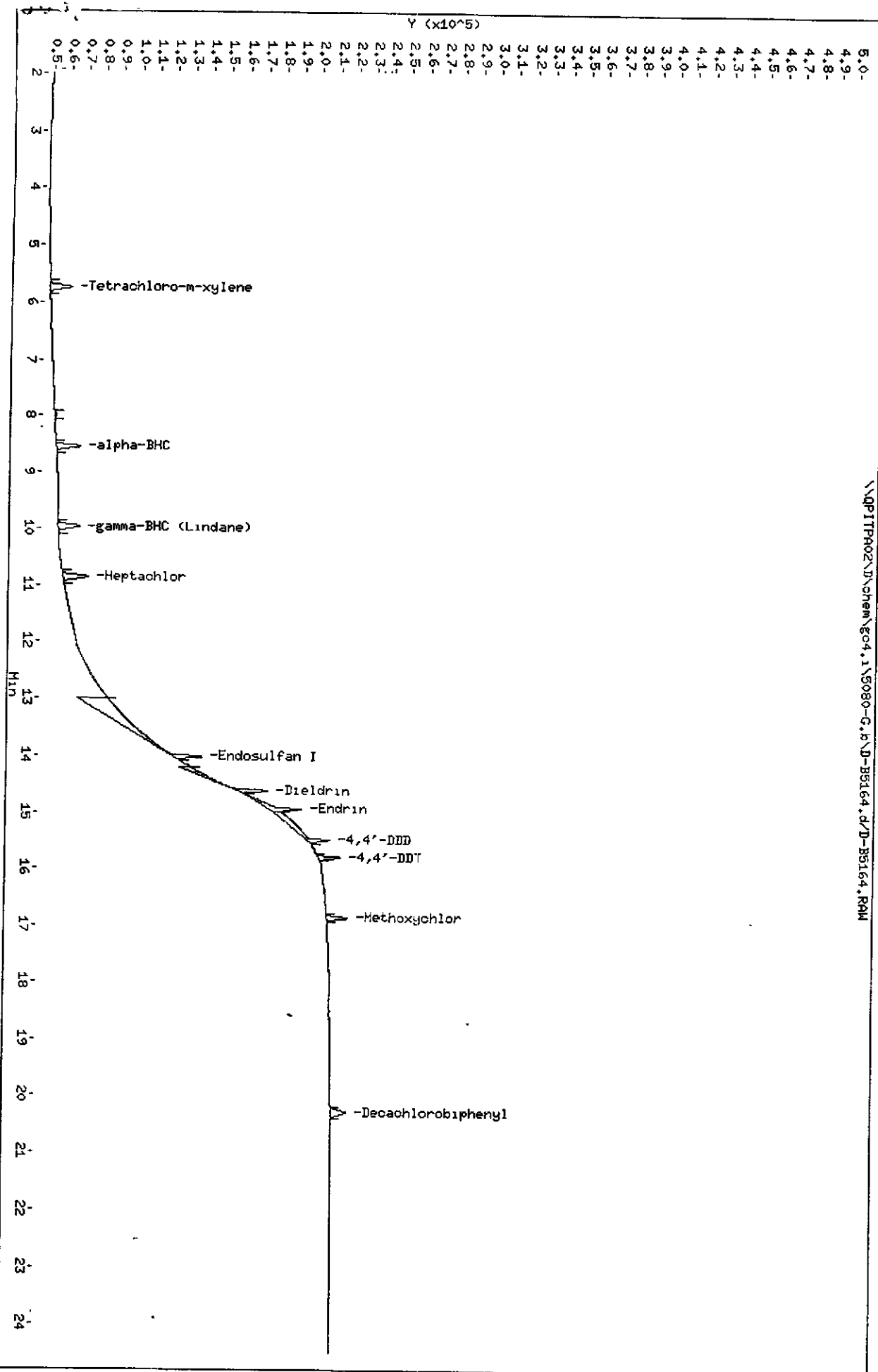
Column phase: DB1701

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53

\\QPI1P002\chem\gc4.1\5080-G.b\B5164.d\B5164.RAW



667 699

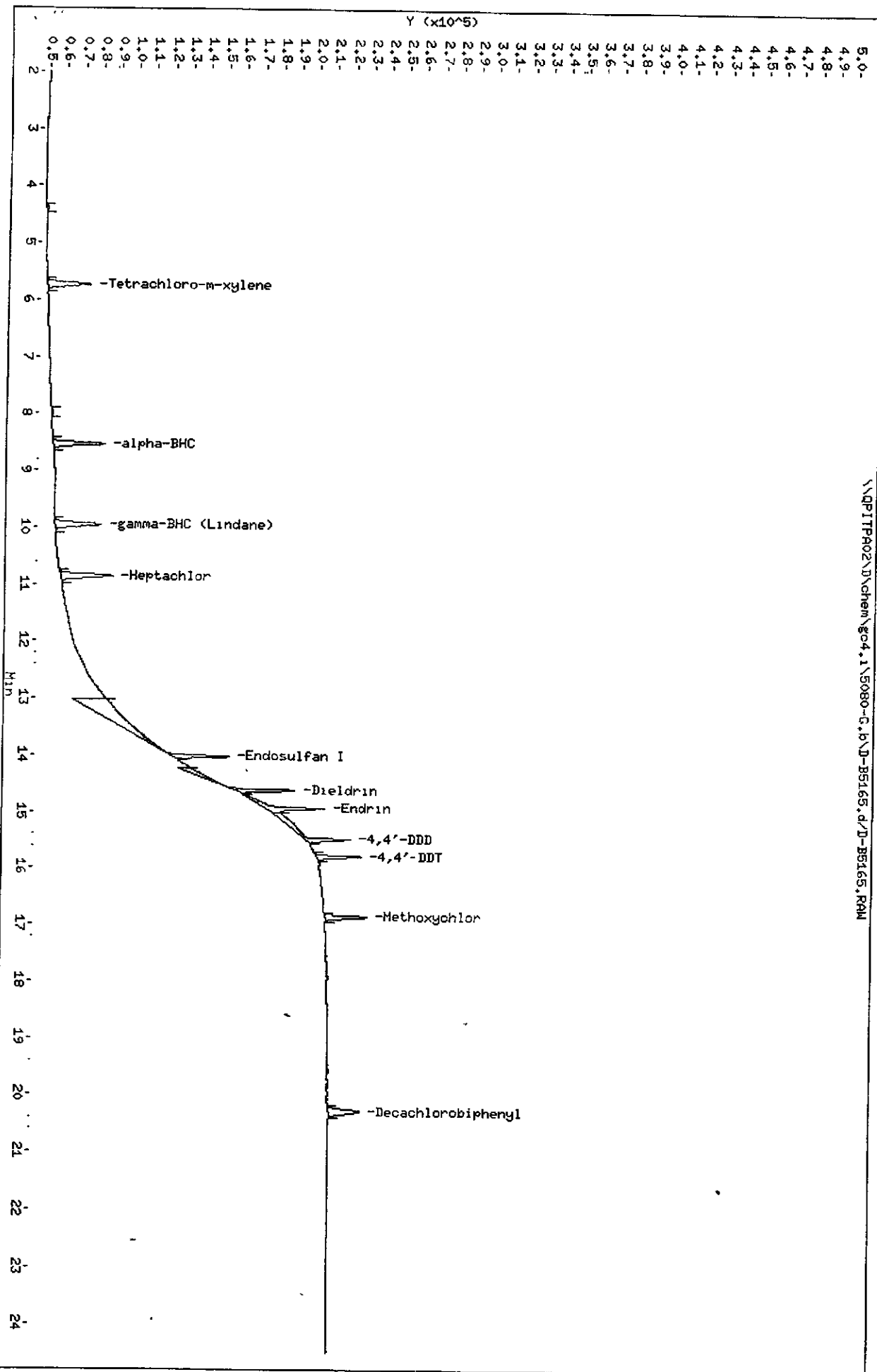
STL Pittsburgh

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	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					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: \\QPITPA02\Nchem\gc4.1\5080-G,b,D-B5165.d
 Date : 07-AUG-2000 21:53
 Client ID:
 Sample Info: HL046,5080-G,b,,3-INDR,sub,,1,2
 Column phase: DB1701

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



STL Pittsburgh

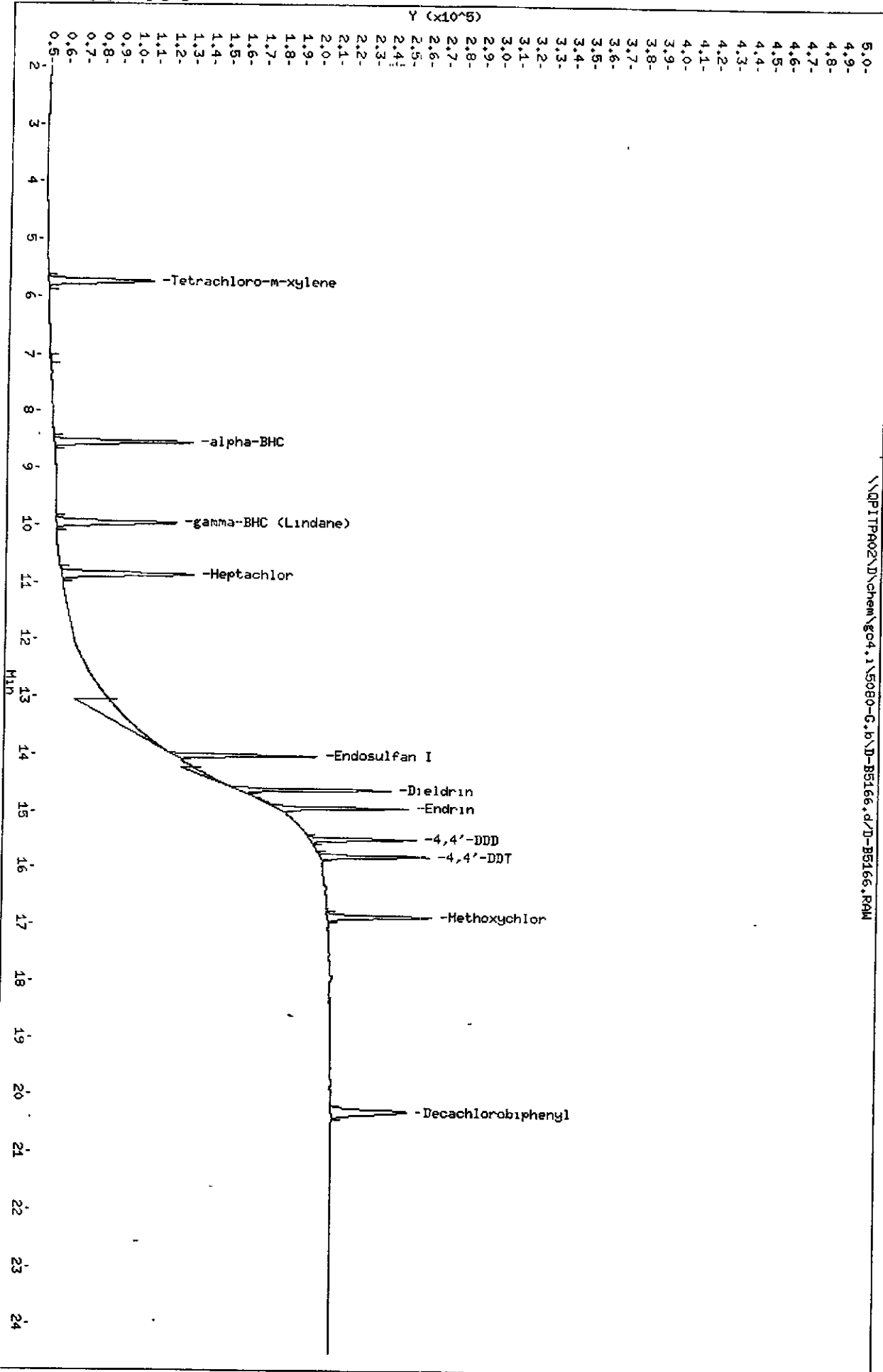
Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5166.d
 Lab Smp Id: MEDA
 Inj Date : 07-AUG-2000 22:21
 Operator : 1891
 Smp Info : MEDA,5080-G.b,,3-INDA.sub,,1,3
 Misc Info : 190-84-3
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\5080-G.b\PESTB.m
 Meth Date : 10-Aug-2000 10:37 colussyj
 Cal Date : 07-AUG-2000 22:21
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: D-B5166.d
 Calibration Sample, Level: 3
 Compound Sublist: 3-INDA.sub

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

Data File: \\QPIITPA02\chem\gc4.1\5080-G.b.D-B5166.d
Date : 07-AUG-2000 22:21
Client ID:
Sample Info: MEDA, 5080-G.b., 3-INDA, 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-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: \\NPITPA02\Nchem\gc04.1\5080-G.b.D-B5167.d
Date: 07-AUG-2000 22:49

Client ID:

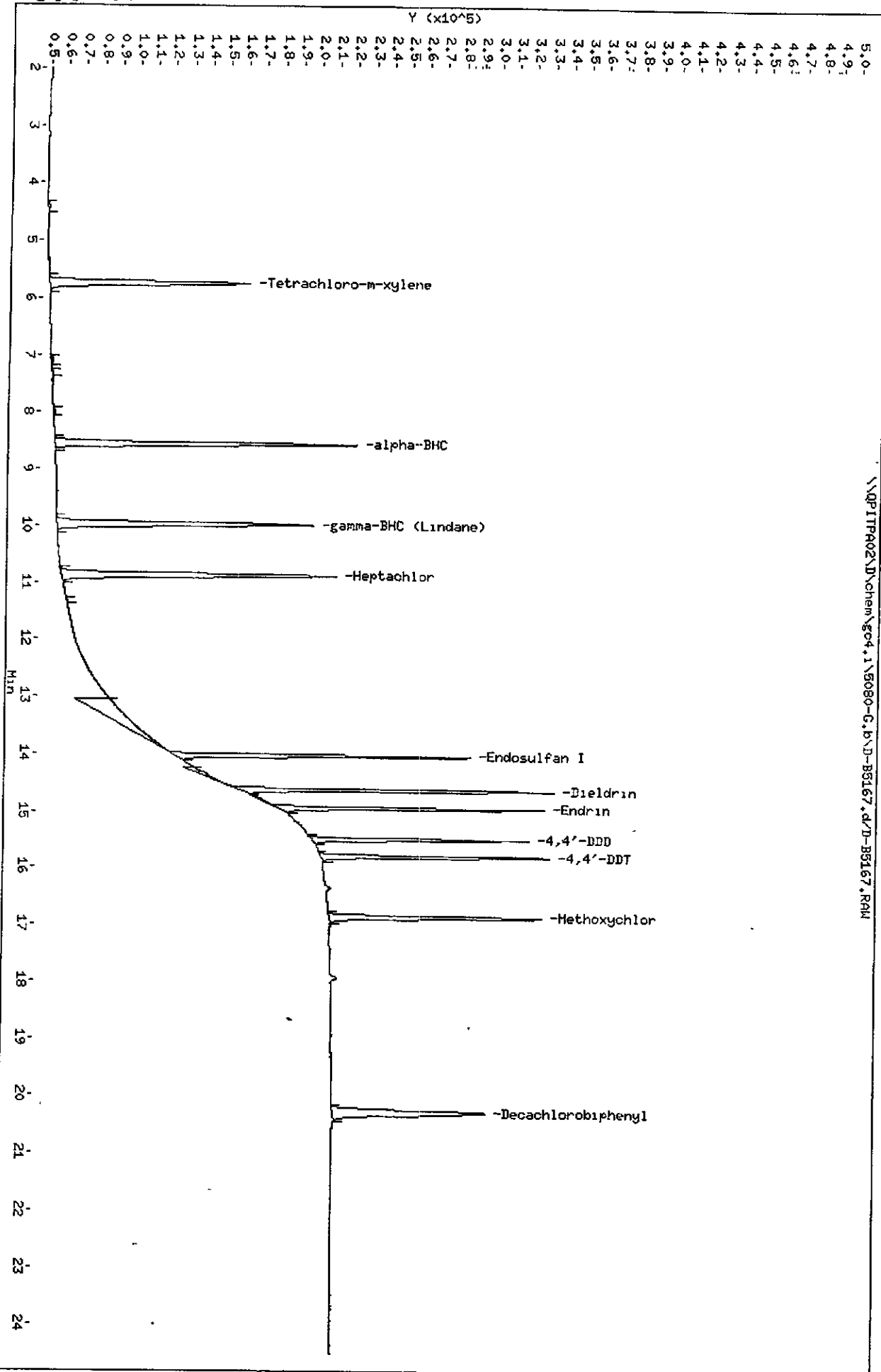
Sample Info: MHICHA, 5080-G.b., 3-INDA, sub., 1,4

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-B5168.d
Lab Smp Id: HIGHA
Inj Date : 07-AUG-2000 23:16
Operator : 18916
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

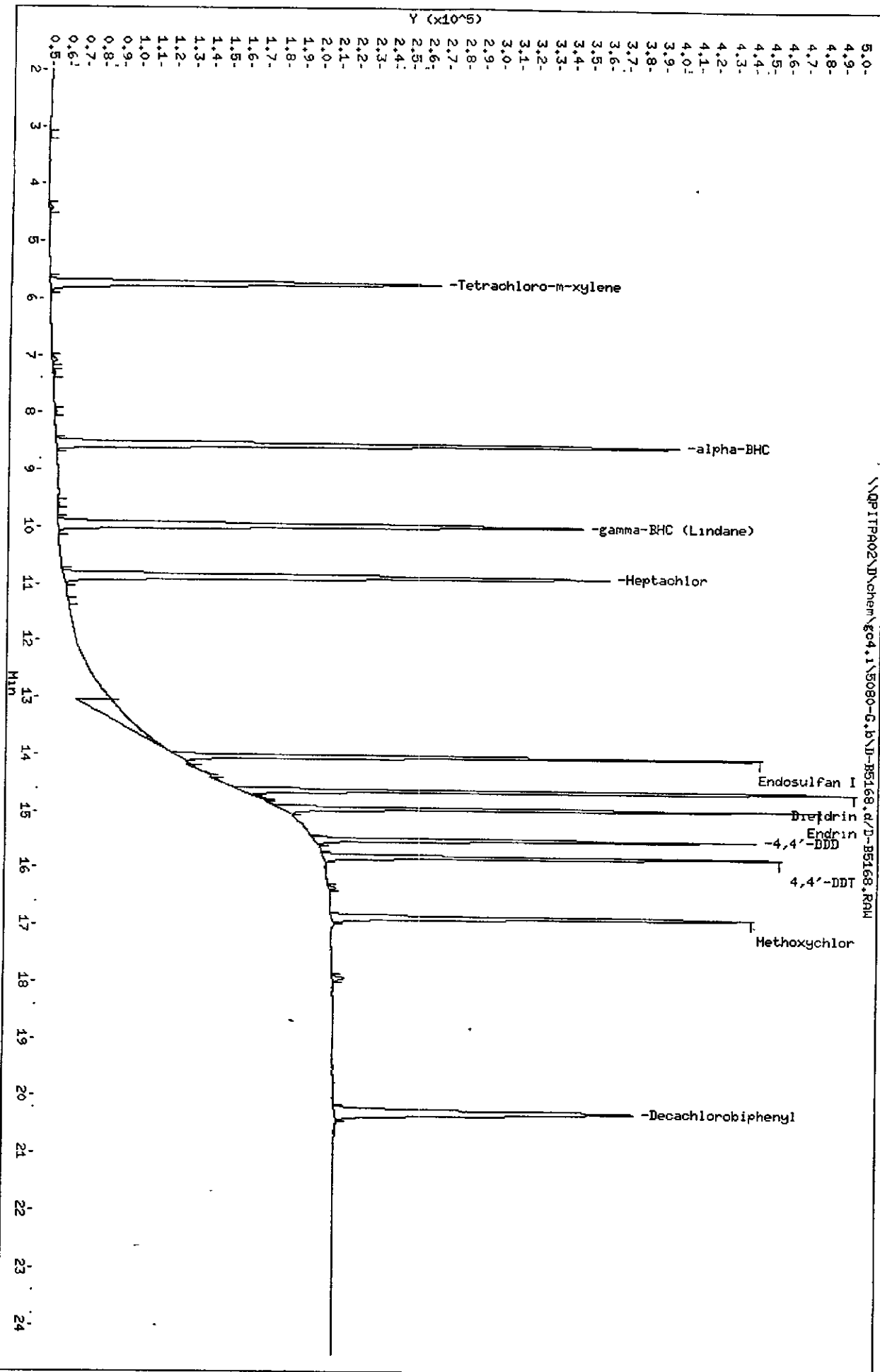
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.733	5.720	0.013	215103	0.10000	0 09408
5 alpha-BHC	8.546	8.546	0.000	343818	0 10000	0 1122(A)
6 gamma-BHC (Lindane)	9 966	9 960	0.006	289303	0 10000	0.1091(A)
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: \\QPIIPA02\N\chem\gc4.1\5080-G.b\D-B5168.d
Date : 07-AUG-2000 23:16
Client ID:
Sample Info: HIGH4,5080-G.b,3-INDR,sub,1,5
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-B5169.d
Lab Smp Id: LOWB
Inj Date : 07-AUG-2000 23:44
Operator : 1891
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
Cal Date : 08-AUG-2000 00:39
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc4.i
Quant Type: ESTD
Cal File: D-B5171.d
Calibration Sample, Level: 1
Compound Sublist: 4-INDB.sub

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

Date File: \\QPI\PA02\chem\gc4.1\5080-G.b\D-B5169.d
Date : 07-AUG-2000 23:44

Client ID:

Sample Info: LOWB,5080-G.b,4-INDB.sub,1,1

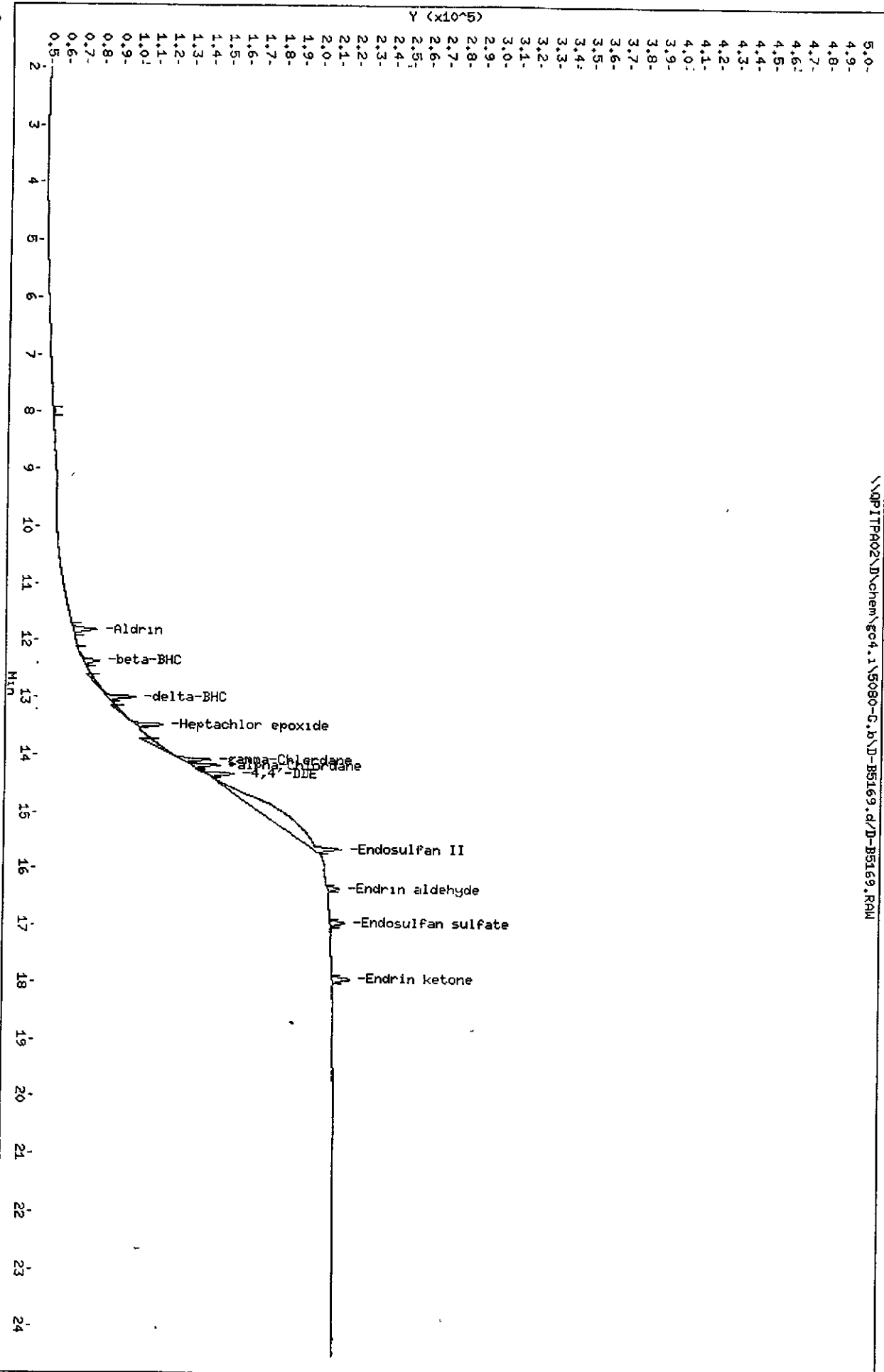
Column phase: DB1701

Instrument: gc4.1

Operator: 1691

Column diameter: 0.53

\\QPI\PA02\chem\gc4.1\5080-G.b\D-B5169.d\D-B5169.RAW



205 699

Data File: \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5170.d
 Report Date: 10-Aug-2000 10:45

STL Pittsburgh

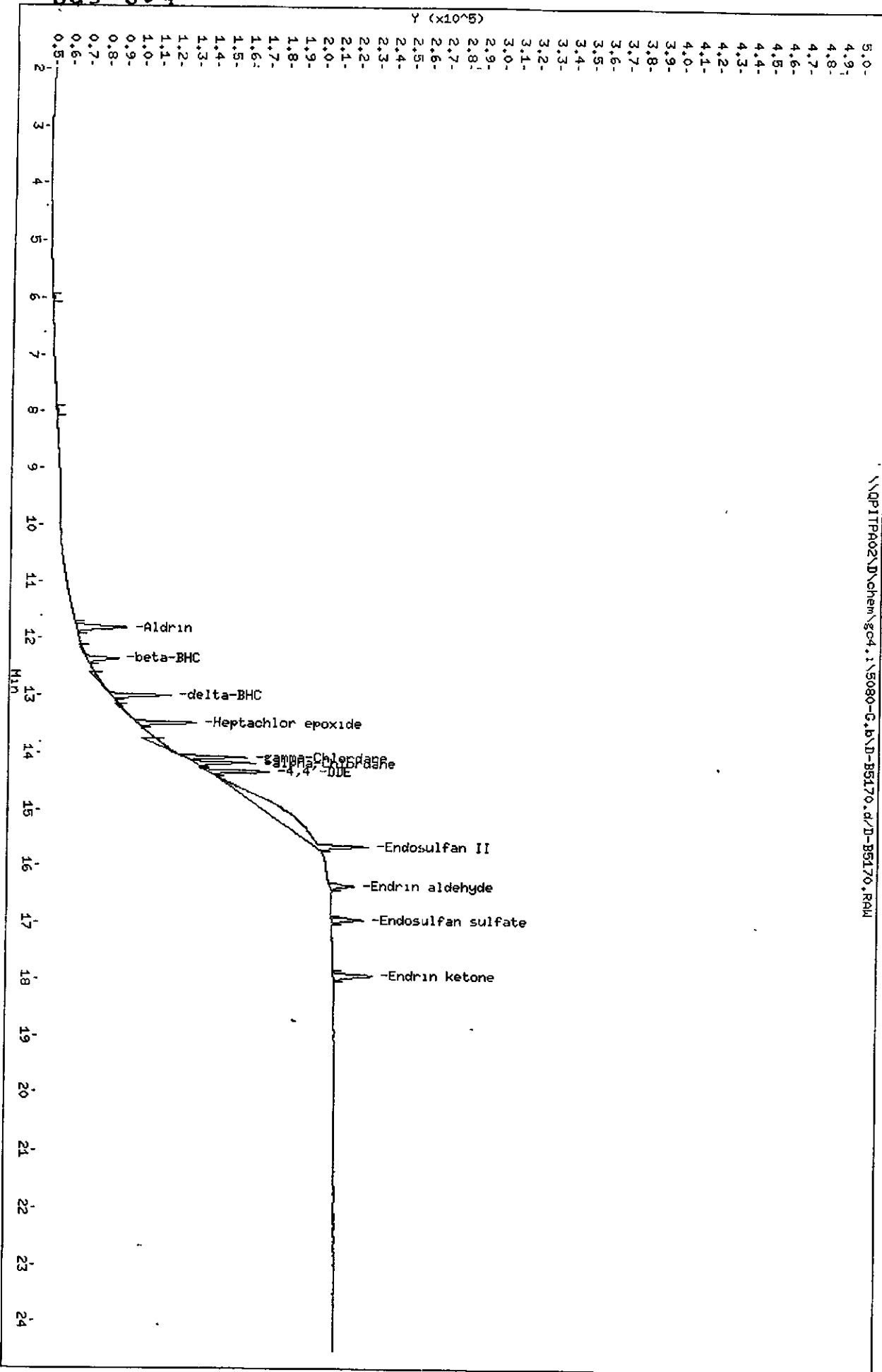
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 Lab Smp Id: MLOWB
 Inj Date : 08-AUG-2000 00:12
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MLOWB,5080-G.b,,4-INDB.sub,,1,2
 Misc Info : 190-84-8
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\5080-G.b\PESTB.m
 Meth Date : 10-Aug-2000 10:37 colussyj 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 Endosulfan 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

669 504

Data File: \\QPI\PA02\N\chem\gc4.1\5080-G.b\D-B5170.d
 Date : 08-AUG-2000 00:12
 Client ID:
 Sample Info: HLOWB,5080-G.b,4-INDB,sub,1,2
 Column phase: DB1701

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



STL Pittsburgh

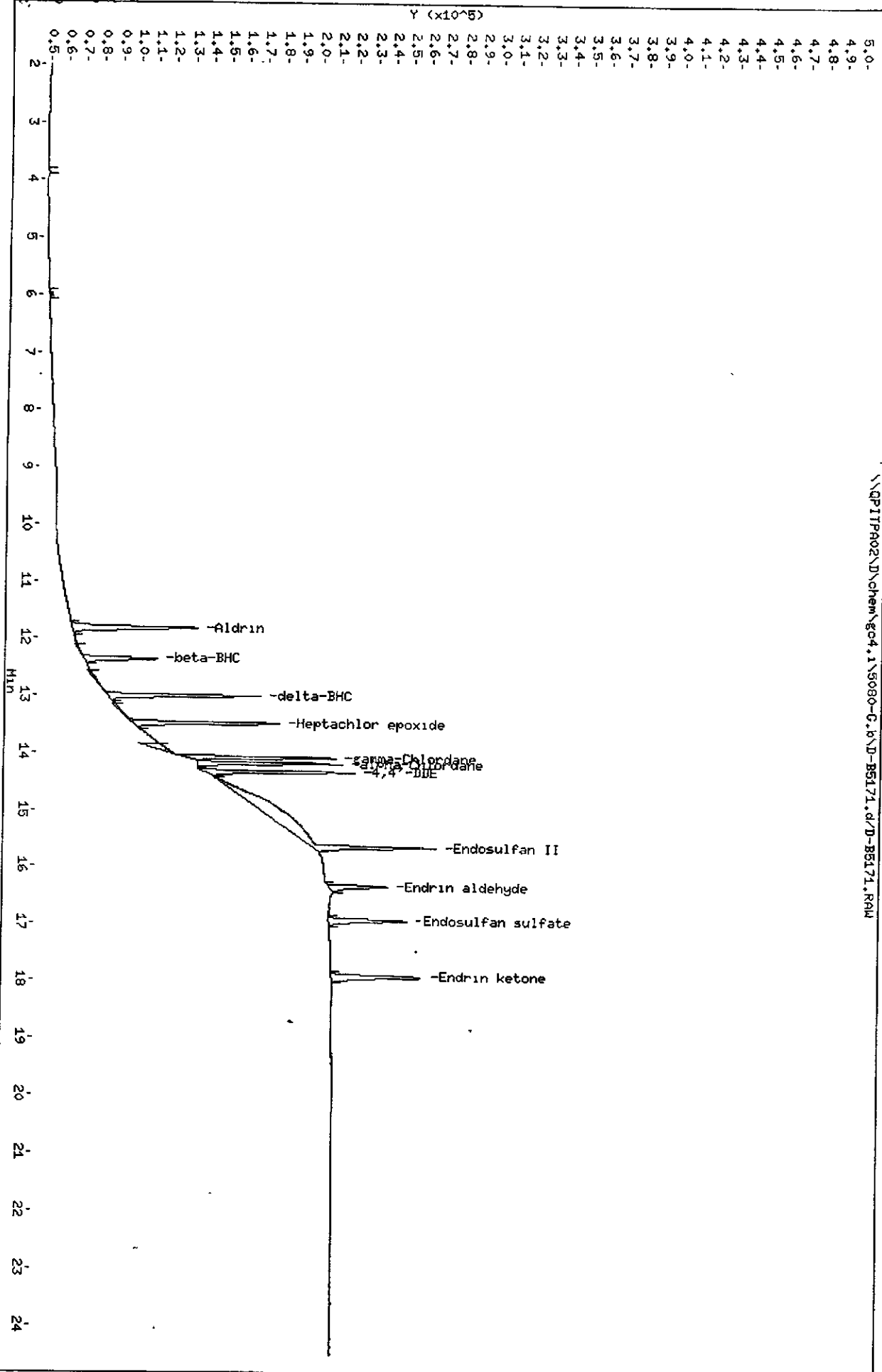
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Lab Smp Id: MEDB
Inj Date : 08-AUG-2000 00:39
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,5080-G.b,,4-INDB.sub,,1,3
Misc Info : 190-84-9
Comment :
Method : \\QPITPA02\D\chem\gc4.i\5080-G.b\PESTB.m
Meth Date : 10-Aug-2000 10:37 colussyj Quant Type: 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	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					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	83530	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

669 506

Data File: \\QPIIPA02\chem\gc4.1\5080-G.b\B5171.d
Date : 08-AUG-2000 00:39
Client ID:
Sample Info: MEDB,5080-G.b,4-INDB,sub,1,3
Column phase: DB1701

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



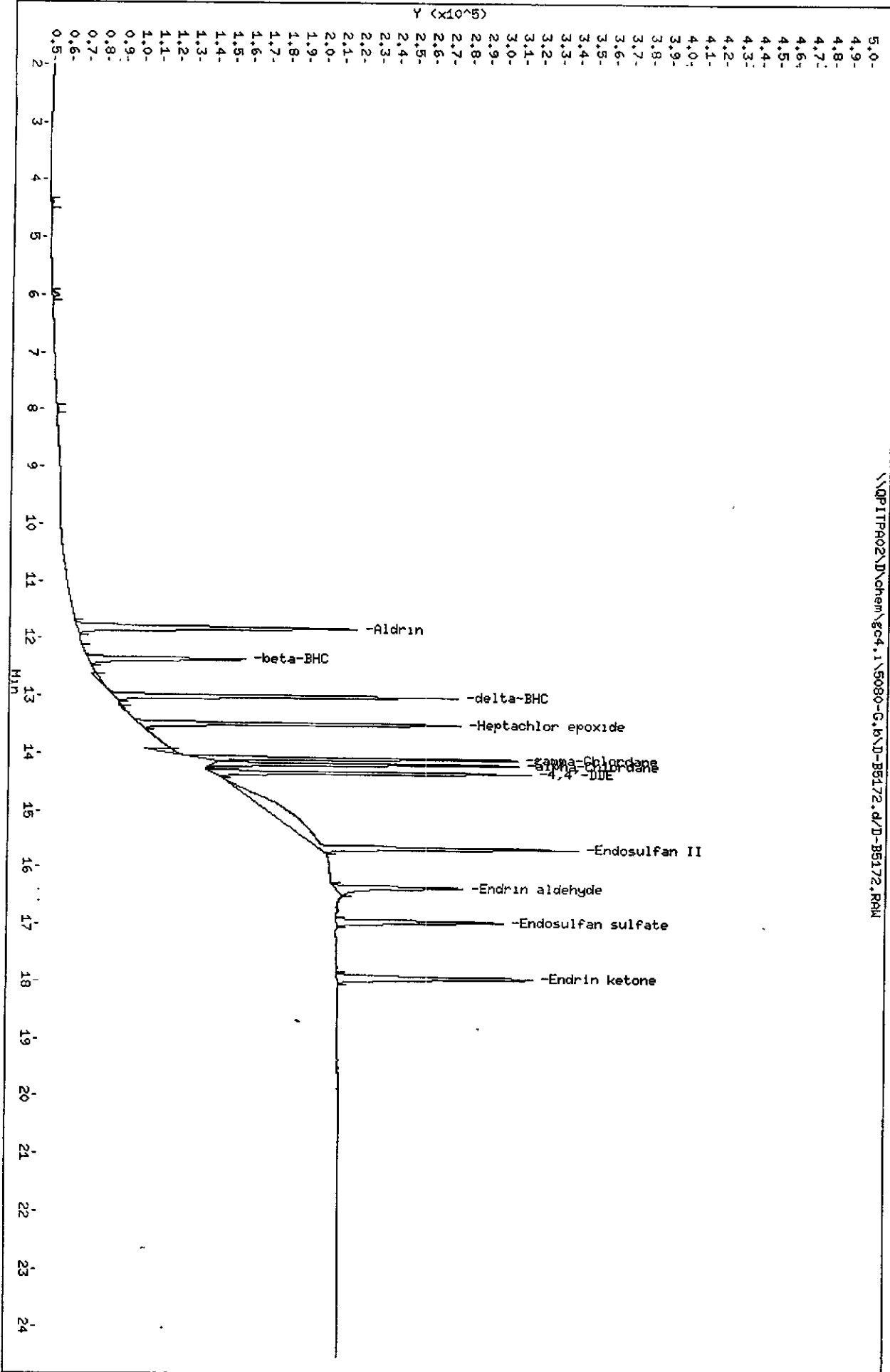
STL Pittsburgh

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	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					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: \\QP1TPA02\N\chem\gc4.1\5080-G.b\D-B5172.d
Date: 08-AUG-2000 01:07
Client ID:
Sample Info: HHICHB,5080-G.b,4-INDB.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-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: \\QPITP02\chem\gc4.1\5080-G.b\D-B5173.d
 Date : 08-AUG-2000 01:35

Client ID:

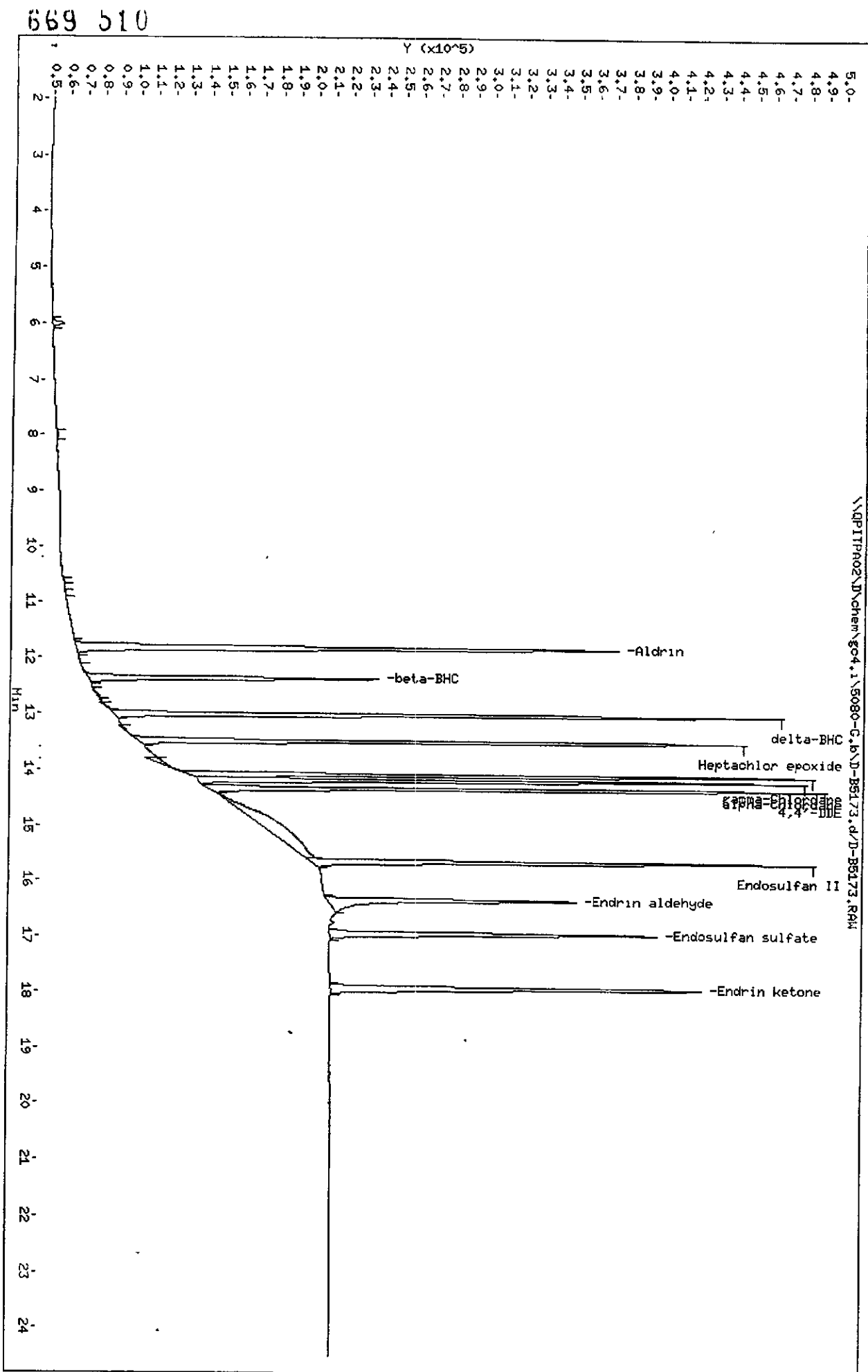
Sample Info: HIGHB,5080-G.b,,4-INDB.sub,,1,5

Column phase: DB1701

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53



STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\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.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: 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: \\QPI1P02\chem\gc4.1\5080-G.b\B5174.d

Date: 08-AUG-2000 02:03

Client ID:

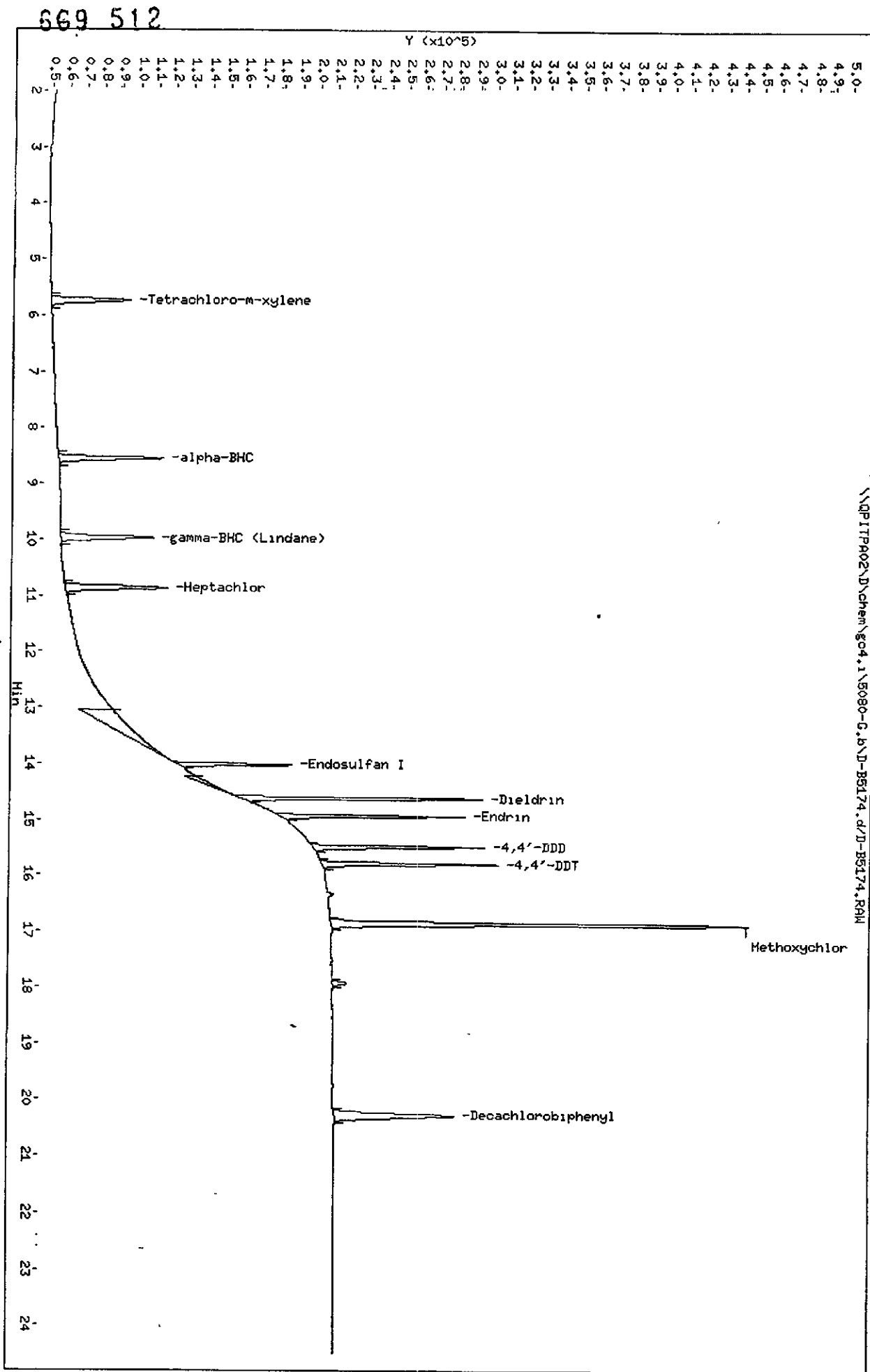
Sample Info: 2ND A,5080-G.b,INDA.sub,2,3

Column phase: DB1.701

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53



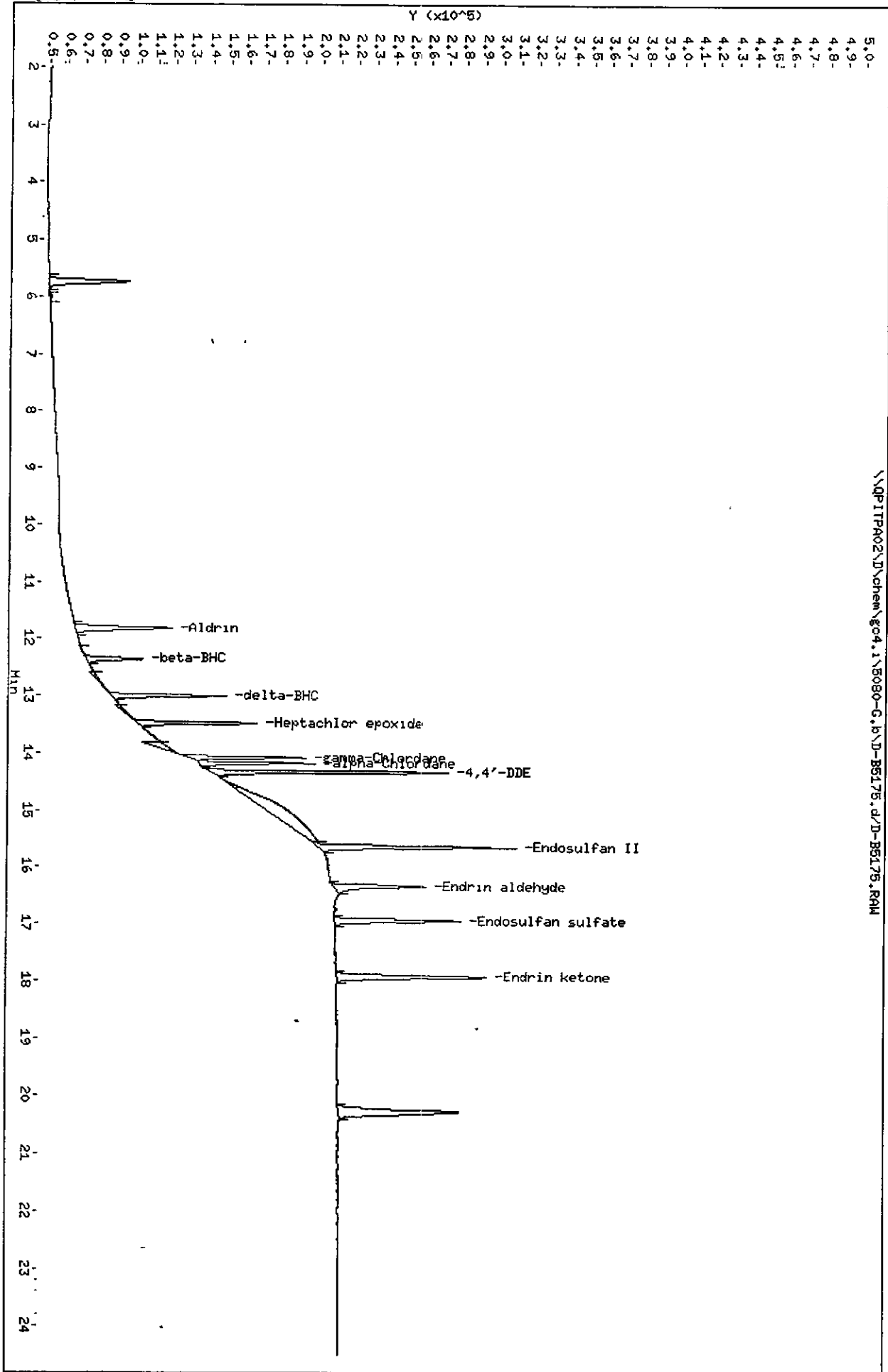
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\5080-G.b\D-B5175.d
Lab Smp Id: 2ND B
Inj Date : 08-AUG-2000 02:30
Operator : 1891 Inst ID: gc4.1
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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	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: \\QPITPA02\DiChem\GC4.1\5080-G.b\D-B5175.d
Date: 08-AUG-2000 02:30
Client ID:
Sample Info: 2ND B,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-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

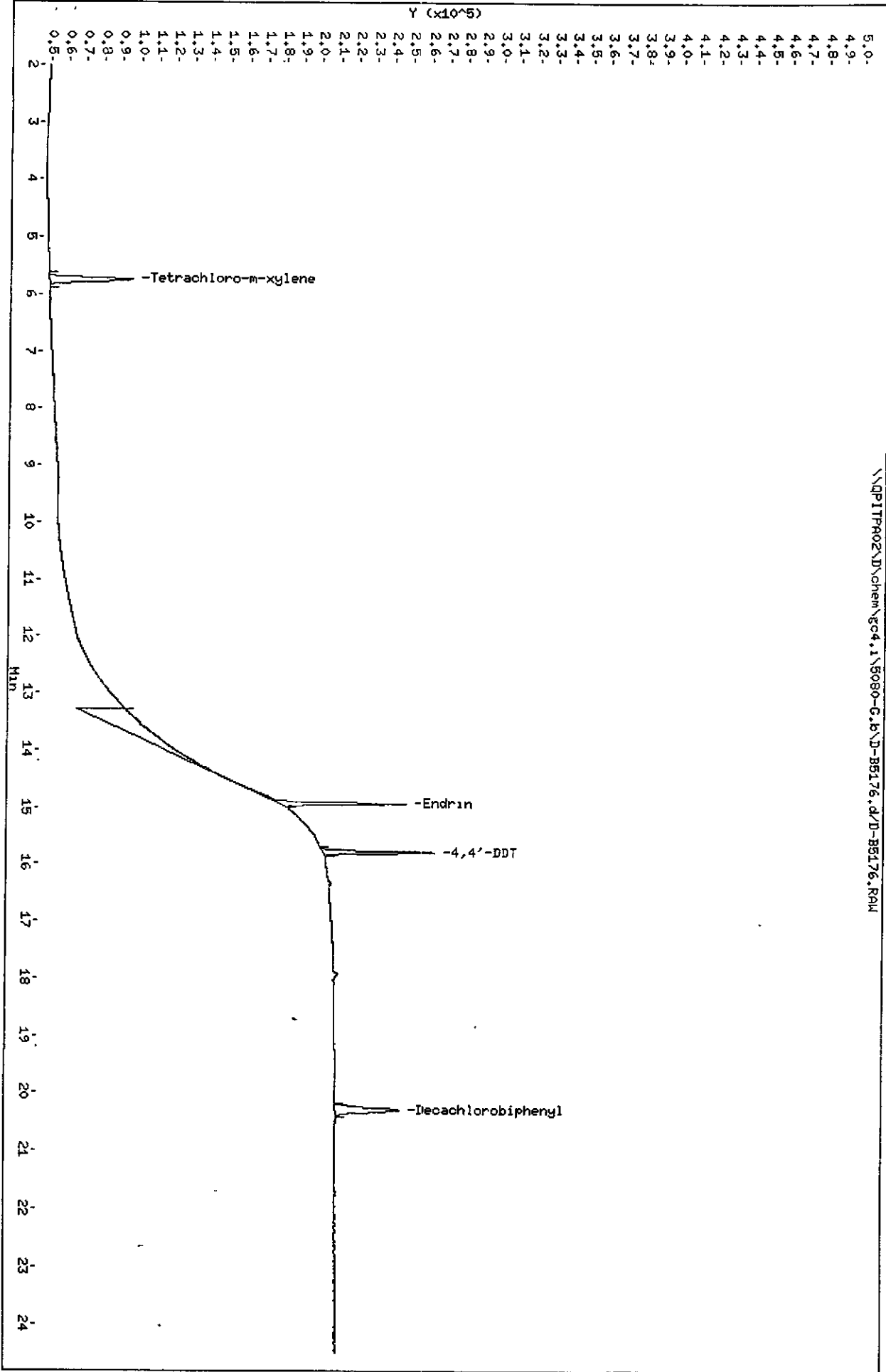
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5 746	5.720	0 026	45881	0 02007	0 02007 (R)
16 4,4'-DDE				Compound Not Detected		
20 Endrin	14 913	14 913	0.000	70054	0 02216	0 02216
21 4,4'-DDD				Compound 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: \\QPI1P002\chem\gc4,1\5080-G.b\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



Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5545.d
 Report Date: 28-Aug-2000 10:43

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5545.d
 Lab Smp Id: EVALB
 Inj Date : 23-AUG-2000 09:30
 Operator : 1891 Inst ID: gc4.i
 Smp Info : EVALB,5280-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
 Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
 Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 4.04
 Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	50750	0.02220	0.02220(R)
16 4,4'-DDE	14.226	14.220	0.006	1744	<0.0	0.0005178
20 Endrin	14.820	14.820	0.000	71266	0.02254	0.02254
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.660	15.660	0.000	59511	0.02395	0.02395
24 Endrin aldehyde	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected.					
\$ 30 Decachlorobiphenyl	20.060	20.060	0.000	36326	0.02148	0.02148(R)

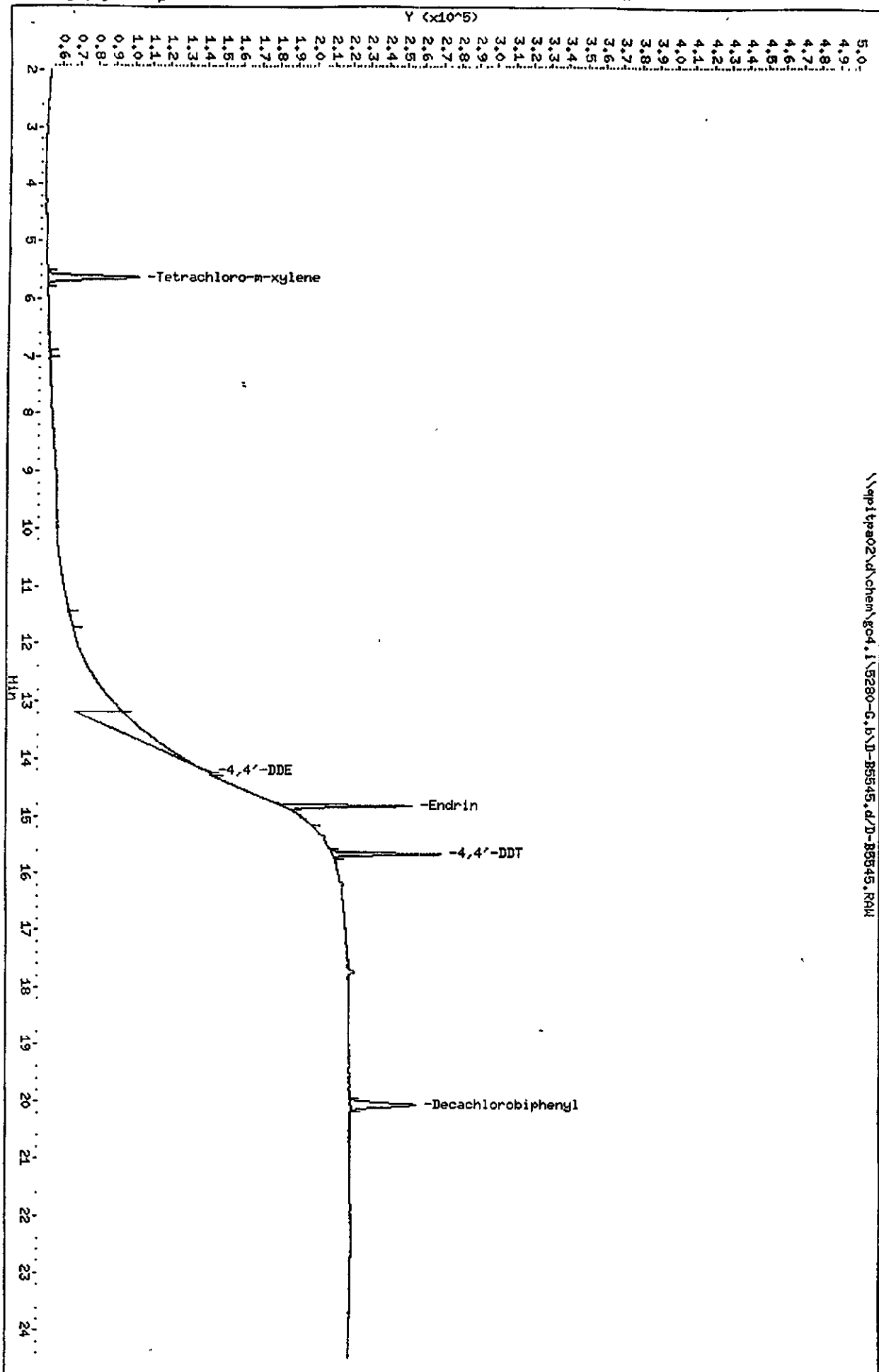
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

-- DDE = 28
 Endrin = 0

Data File: \\pittpa02\chem\gc04.1\5280-G.b.D-B5545.d
Date: 23-AUG-2000 09:30
Client ID:
Sample Info: EVAL.B.5280-G.b., EVAL.BR.sub.,3,1
Column phase: DB1701

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



STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5546.d
Lab Smp Id: MEDTOX
Inj Date : 23-AUG-2000 09:58
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDTOX,5280-G.b,,1-TOX.sub,,2,3
Misc Info : 190-98-12
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.04
Processing Host: PITPC043

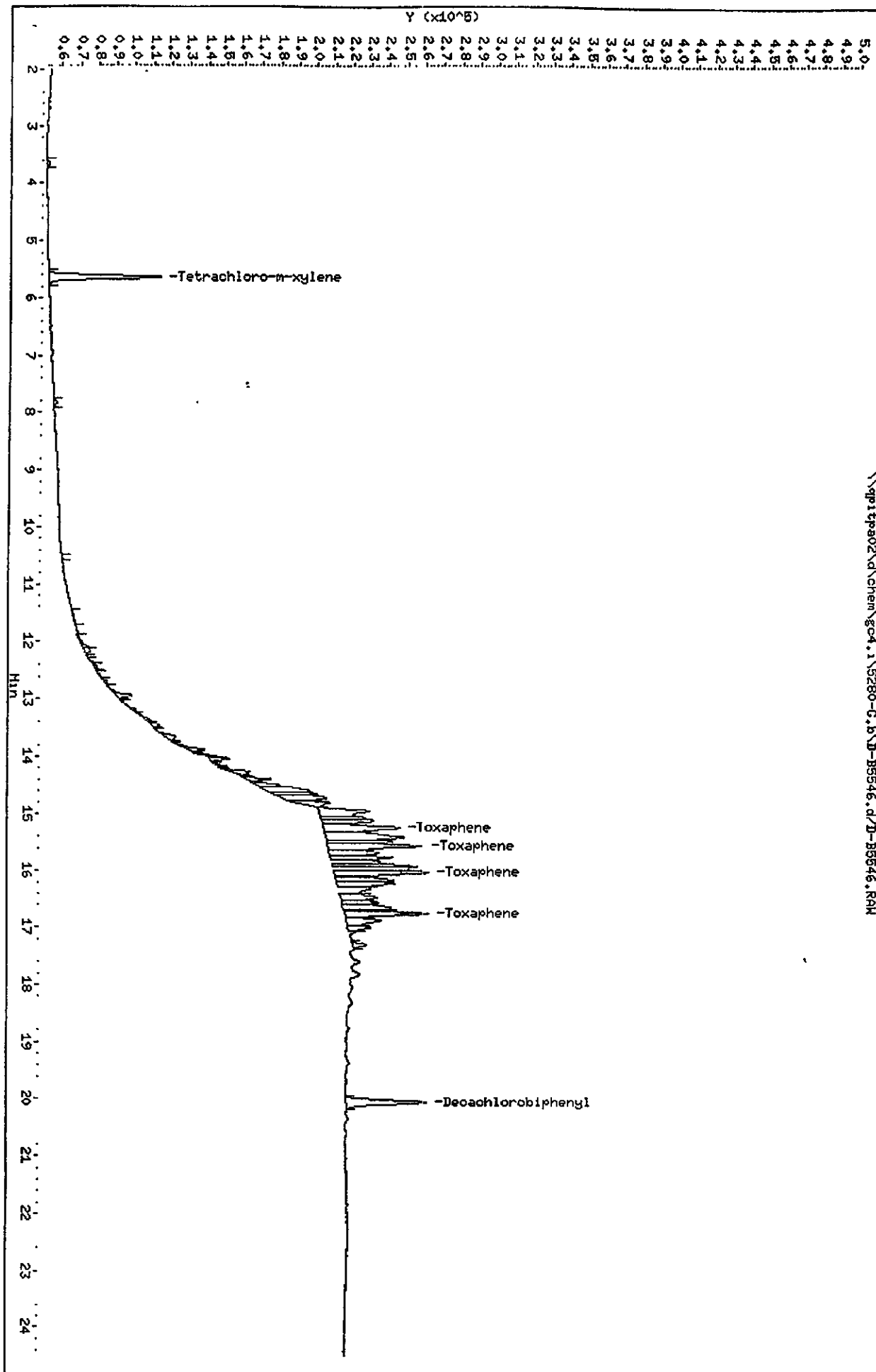
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
18 Toxaphene	15.253	15.253	0.000	41452	1.00000	1.046(M)
\$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	60807	0.02500	0.02660
\$ 30 Decachlorobiphenyl	20.060	20.060	0.000	44192	0.02500	0.02613

QC Flag Legend

M - Compound response manually integrated.

Data File: \\ppitpa02\chem\gc4.1\5280-G.b\D-B5546.d
Date: 23-AUG-2000 09:58
Client ID:
Sample Info: HEDTOX, 5280-G.b, 1-TOX, sub, 2,3
Column Phase: DB1701

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



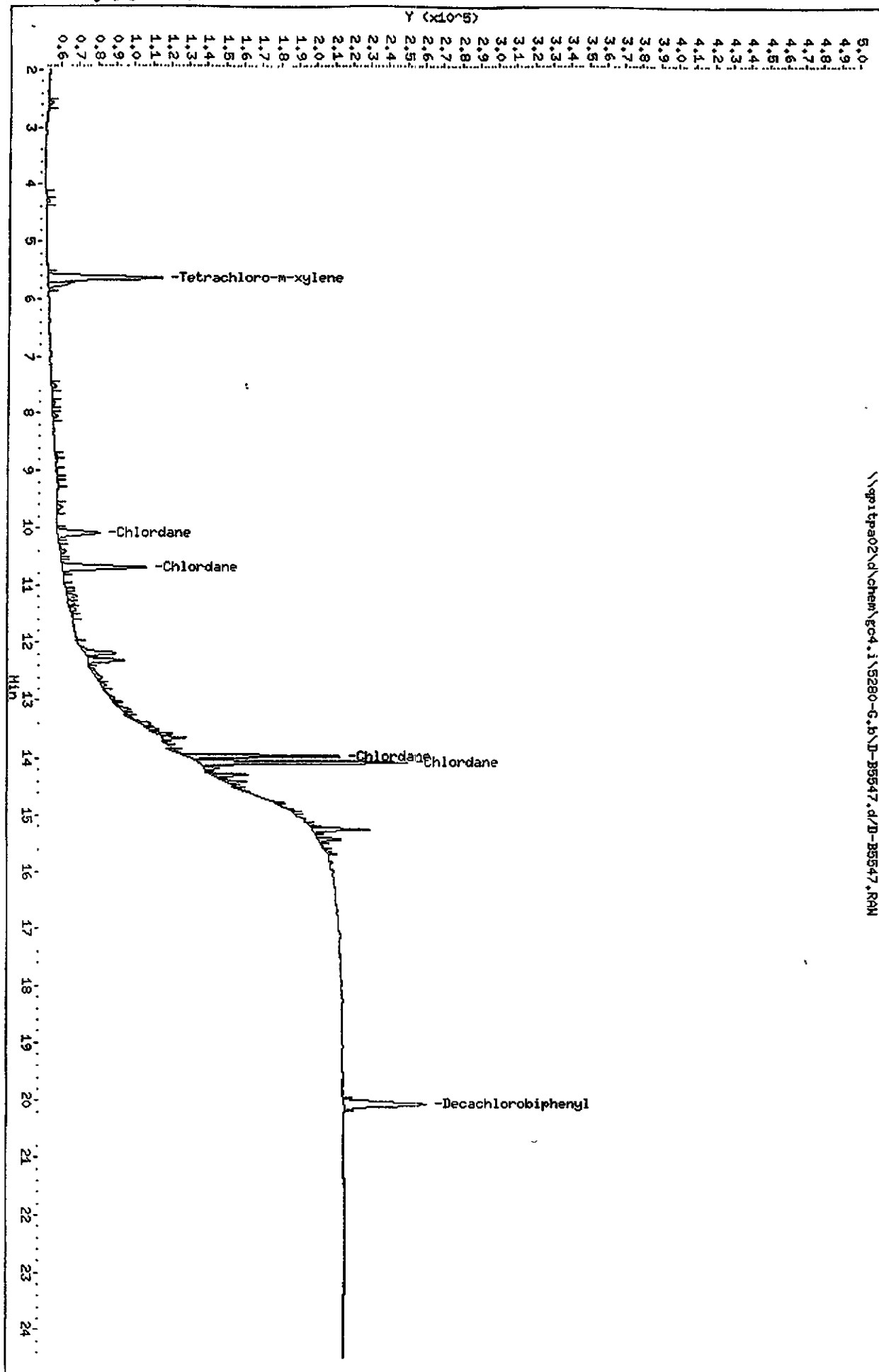
STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5547.d
Lab Smp Id: MEDCHLOR
Inj Date : 23-AUG-2000 10:26
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDCHLOR,5280-G.b,,2-CHLO.sub,,2,3
Misc Info : 190-85-10
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT	ON-COL
					(ng)	(ng)
9 Chlordane	10.093	10.093	0.000	22514	0.25000	0.2737
\$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	62660	0.02500	0.02741
\$ 30 Decachlorobiphenyl	20.060	20.060	0.000	45109	0.02500	0.02667

Date File: \\sp1tpa02\chem\gc4.i\5280-G.b\D-B5547.d
Date: 23-AUG-2000 10:26
Client ID:
Sample Info: MEDCHLOR, 5280-G.b, 2-CHL0, sub, 2,3
Column phase: DB1701

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



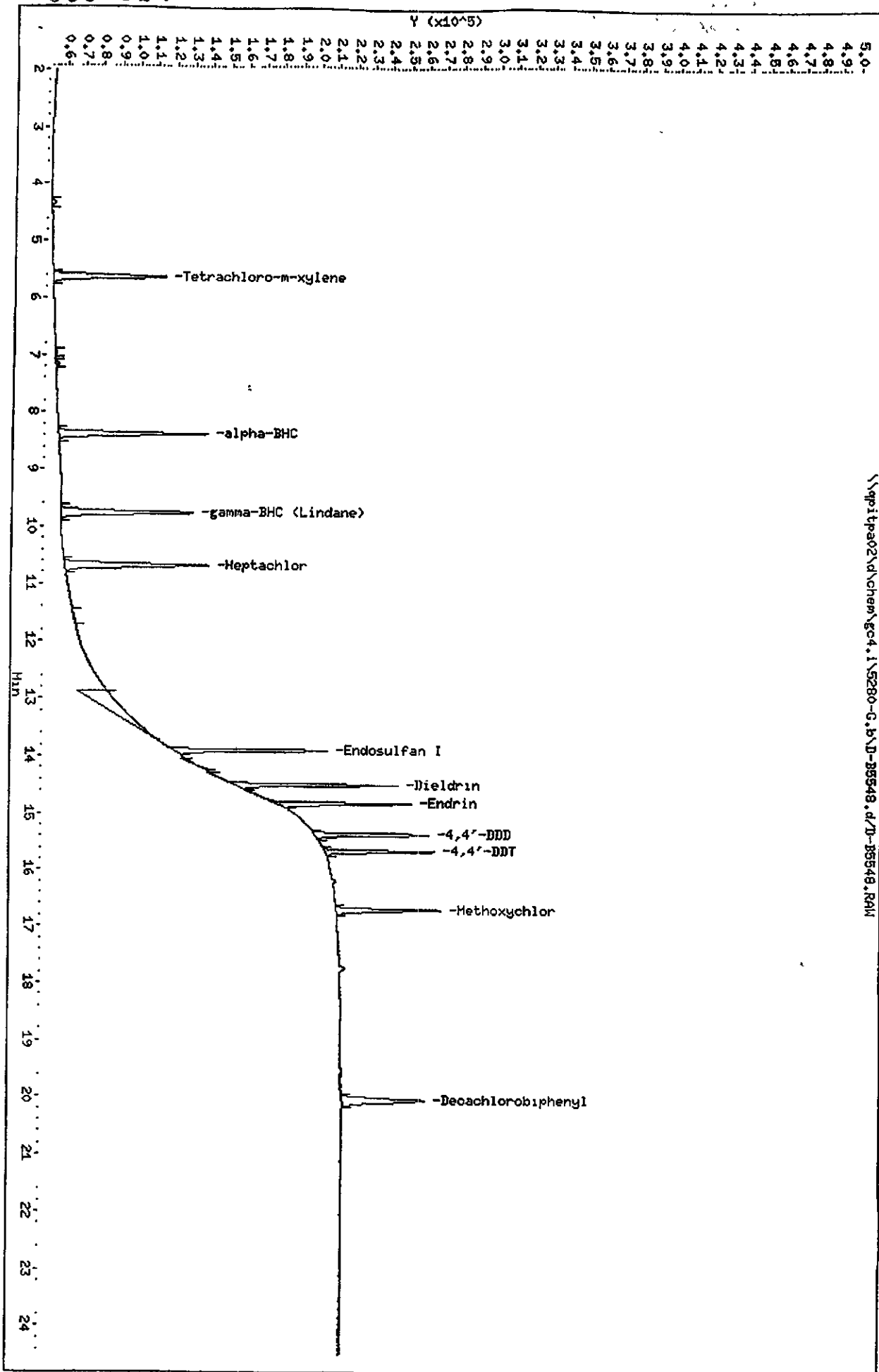
STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5548.d
Lab Smp Id: MEDA
Inj Date : 23-AUG-2000 10:54
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,5280-G.b,,3-INDA.sub,,2,3
Misc Info : 190-84-3
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC043

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	*****	*****	*****	*****	*****
\$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	61447	0.02500	0.02688
5 alpha-BHC	8.380	8.380	0.000	81891	0.02500	0.02672
6 gamma-BHC (Lindane)	9.760	9.760	0.000	72343	0.02500	0.02728
10 Heptachlor	10.686	10.686	0.000	78605	0.02500	0.02674
15 Endosulfan I	13.906	13.906	0.000	84828	0.02500	0.02654
17 Dieldrin	14.506	14.506	0.000	89217	0.02500	0.02627
20 Endrin	14.820	14.820	0.000	74594	0.02500	0.02359
21 4,4'-DDD	15.366	15.366	0.000	63094	0.02500	0.02566
23 4,4'-DDT	15.660	15.660	0.000	60369	0.02500	0.02430
25 Methoxychlor	16.700	16.700	0.000	57862	0.05000	0.04955
\$ 30 Decachlorobiphenyl	20.060	20.060	0.000	45554	0.02500	0.02694

Data File: \\pittpa02\chem\gc4.1\5280-G.b\D-B5548.d
Date: 23-AUG-2000 10:54
Client ID:
Sample Info: HEDR, 5280-G.b, 3-INDR, sub, 2,3
Column phase: DB1701

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



Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5549.d
 Report Date: 28-Aug-2000 10:44

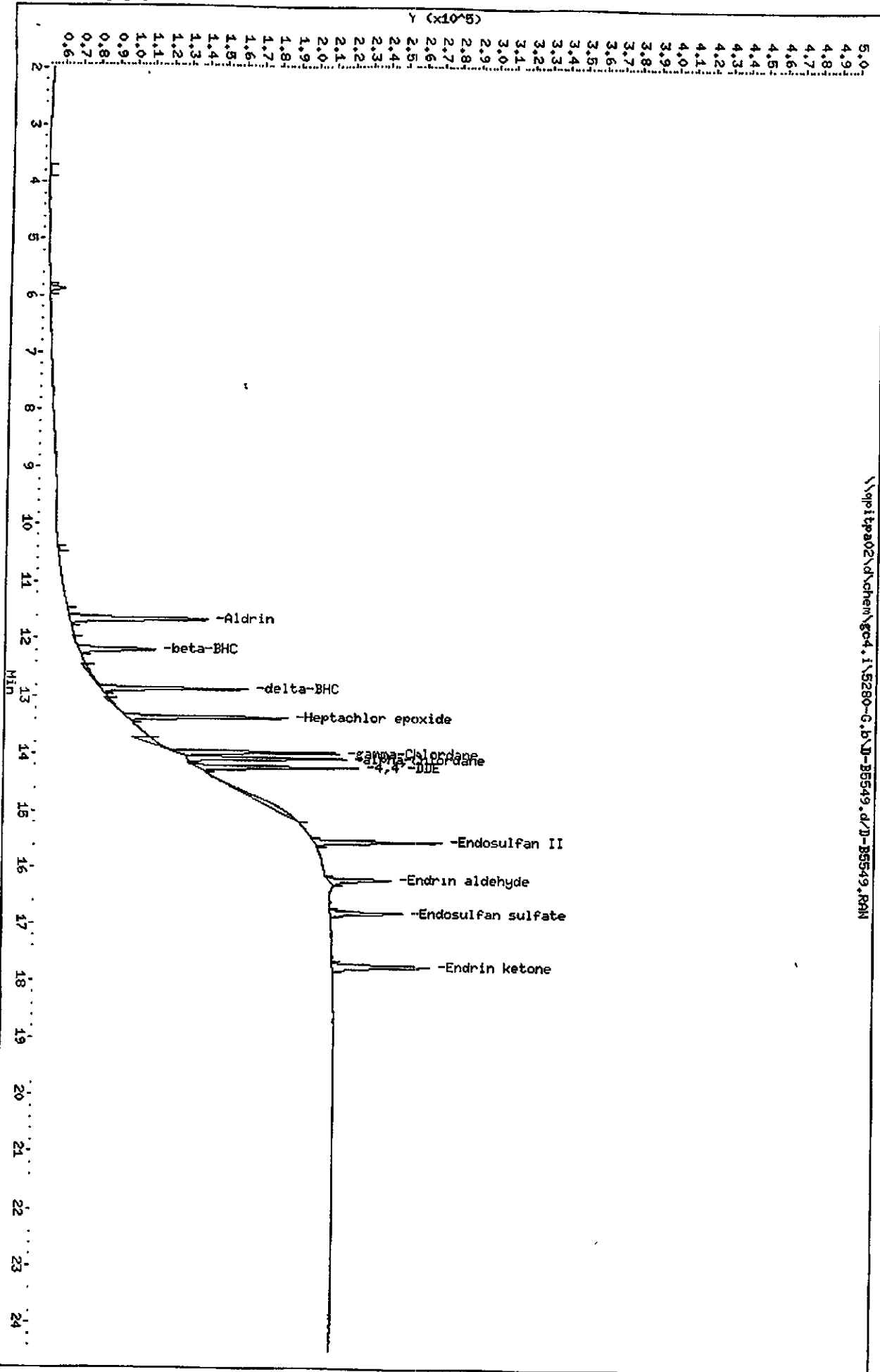
STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5549.d
 Lab Smp Id: MEDB
 Inj Date : 23-AUG-2000 11:21
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDB,5280-G.b,,4-INDB.sub,,2,3
 Misc Info : 190-84-9
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
 Meth Date : 28-Aug-2000 10:43 gc Quant Type: ESTD
 Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC043

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.660	11.660	0.000	75995	0.02500	0.02668
7 beta-BHC	12.186	12.186	0.000	42626	0.02500	0.02564
8 delta-BHC	12.860	12.860	0.000	80889	0.02500	0.02355
12 Heptachlor epoxide	13.360	13.360	0.000	88513	0.02500	0.02671
13 gamma-Chlordane	13.966	13.966	0.000	88629	0.02500	0.02613
14 alpha-Chlordane	14.066	14.066	0.000	87157	0.02500	0.02635
16 4,4'-DDE	14.220	14.220	0.000	88951	0.02500	0.02641
22 Endosulfan II	15.520	15.520	0.000	70568	0.02500	0.02465
24 Endrin aldehyde	16.186	16.186	0.000	34457	0.02500	0.02570
26 Endosulfan sulfate	16.773	16.773	0.000	39940	0.02500	0.02280
27 Endrin ketone	17.740	17.740	0.000	53489	0.02500	0.02591

Data File: \\pittpa02\chem\gc4.1\5280-G.b\D-B5549.d
Date: 23-AUG-2000 11:21
Client ID:
Sample Info: MEDB, 5280-G.b, 4-INDB.sub, 2,3
Column phase: DB1701

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



Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5570.d
 Report Date: 28-Aug-2000 10:47

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5570.d
 Lab Smp Id: MEDA
 Inj Date : 23-AUG-2000 21:04
 Operator : 1891
 Smp Info : MEDA,5280-G.b,,INDA.sub,,2,3
 Misc Info : 190-84-3
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
 Meth Date : 28-Aug-2000 10:43 gc
 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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	60373	0.02500	0.02641
5 alpha-BHC	8.380	8.380	0.000	80152	0.02500	0.02616
6 gamma-BHC (Lindane)	9.760	9.760	0.000	69408	0.02500	0.02617
10 Heptachlor	10.686	10.686	0.000	74126	0.02500	0.02521
15 Endosulfan I	13.906	13.906	0.000	80217	0.02500	0.02510
17 Dieldrin	14.506	14.506	0.000	85774	0.02500	0.02526
20 Endrin	14.820	14.820	0.000	74776	0.02500	0.02365
21 4,4'-DDD	15.366	15.366	0.000	61666	0.02500	0.02508
23 4,4'-DDT	15.660	15.660	0.000	60080	0.02500	0.02418
25 Methoxychlor	16.700	16.700	0.000	58449	0.05000	0.05005
\$ 30 Decachlorobiphenyl	20.060	20.060	0.000	44605	0.02500	0.02638

Data File: \\pptpa02\chem\gc04.1\5280-G.b\D-B5570.d

Date : 23-AUG-2000 21:04

Client ID:

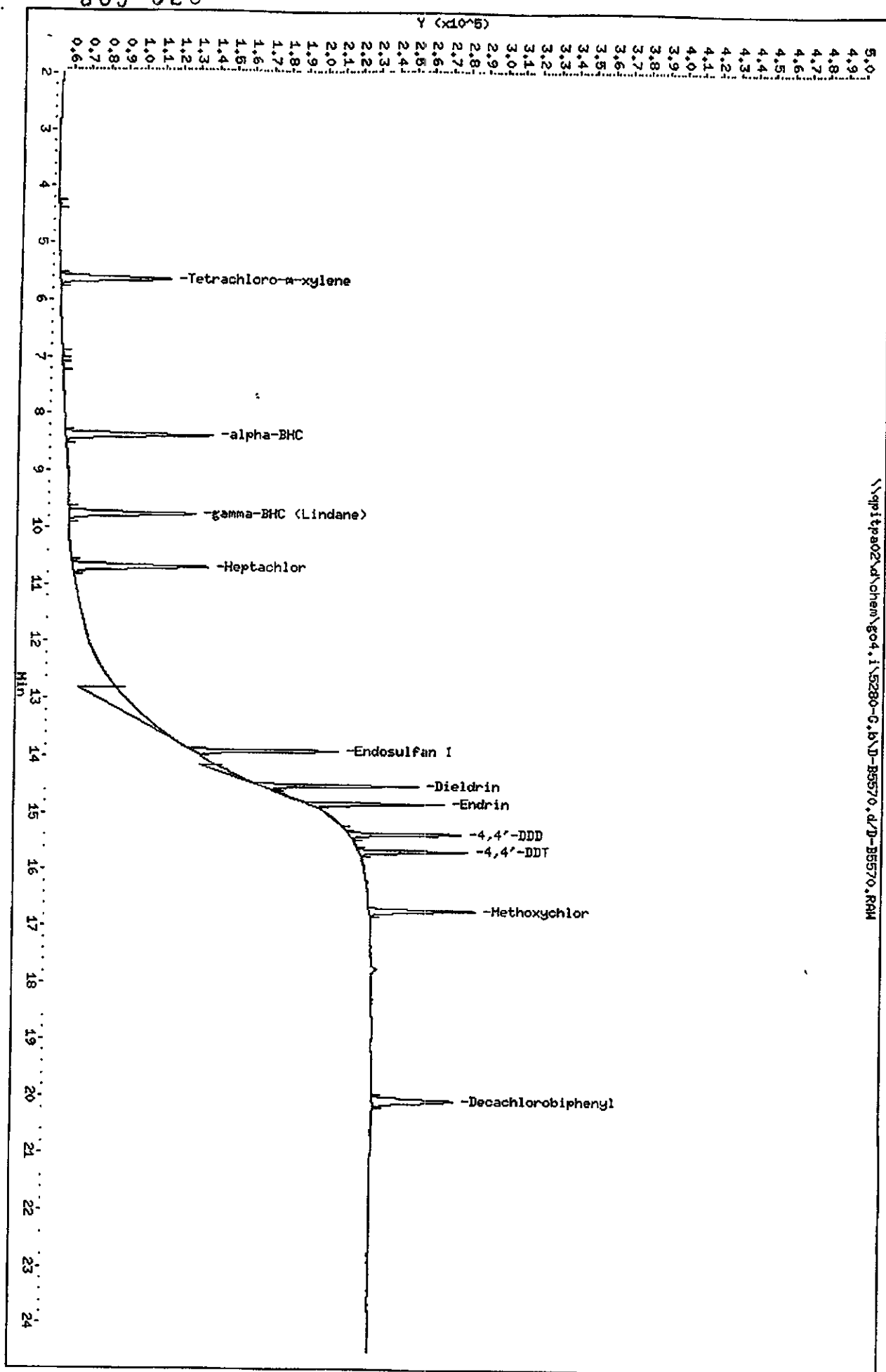
Sample Info: HED9,5280-G.b,,IND9,sub,,2,3

Column phase: DB1701

Instrument: gc04.1

Operator: 1891

Column diameter: 0.53



STL - Pittsburgh

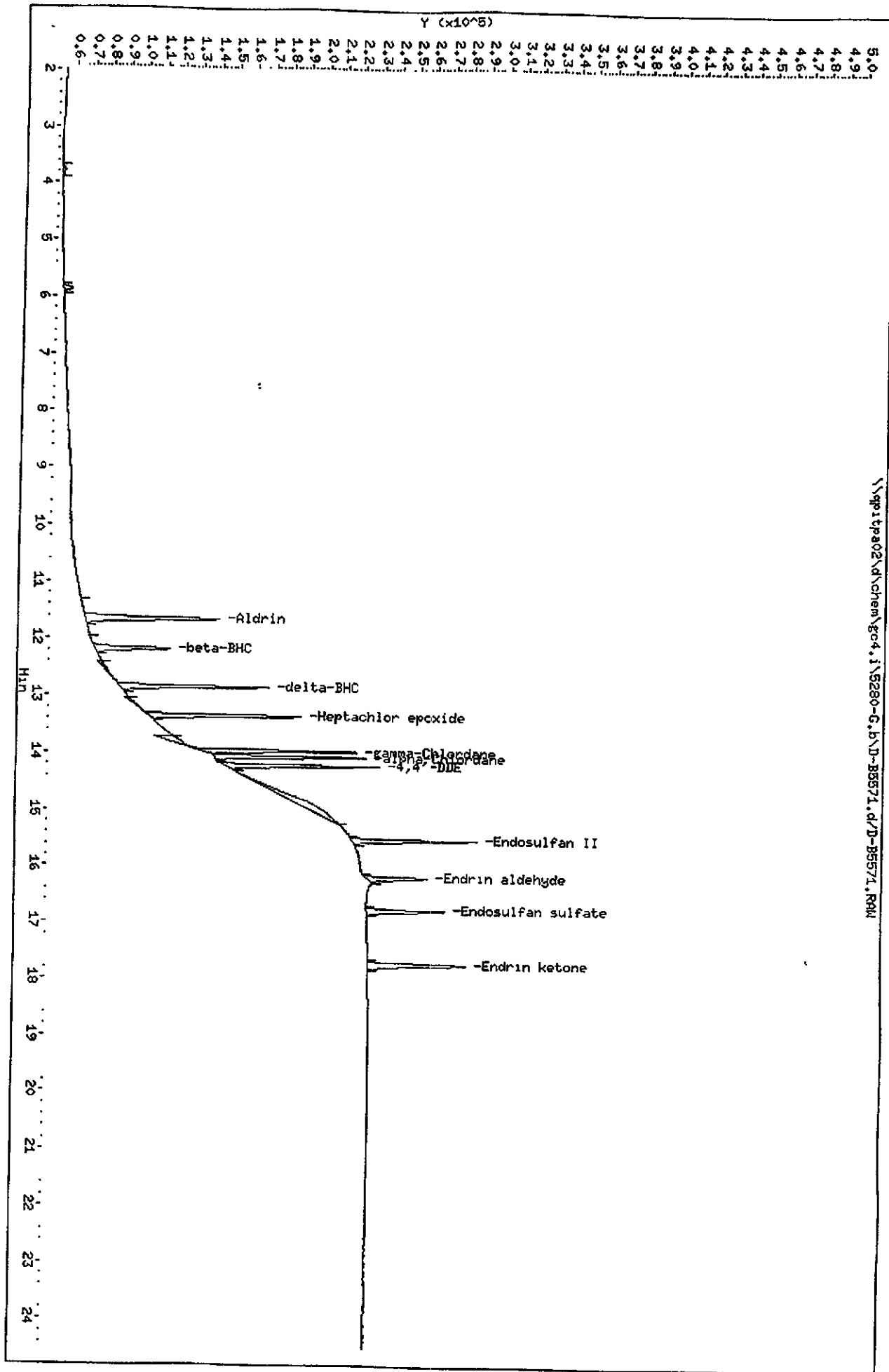
Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5571.d
Lab Smp Id: MEDB
Inj Date : 23-AUG-2000 21:32
Operator : 1891
Smp Info : MEDB,5280-G.b,,INDB.sub,,2,3
Misc Info : 190-84-9
Comment :
Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
Meth Date : 28-Aug-2000 10:43 gc
Cal Date : 08-AUG-2000 01:35
Als 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	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.660	11.660	0.000	74214	0.02500	0.02606
7 beta-BHC	12.186	12.186	0.000	41009	0.02500	0.02466
8 delta-BHC	12.853	12.860	-0.007	82493	0.02500	0.02401
12 Heptachlor epoxide	13.360	13.360	0.000	83961	0.02500	0.02534
13 gamma-Chlordane	13.966	13.966	0.000	84746	0.02500	0.02498
14 alpha-Chlordane	14.066	14.066	0.000	83488	0.02500	0.02524
16 4,4'-DDE	14.220	14.220	0.000	85494	0.02500	0.02538
22 Endosulfan II	15.513	15.520	-0.007	69221	0.02500	0.02418
24 Endrin aldehyde	16.186	16.186	0.000	33307	0.02500	0.02485
26 Endosulfan sulfate	16.766	16.773	-0.007	43029	0.02500	0.02456
27 Endrin ketone	17.733	17.740	-0.007	53966	0.02500	0.02614

Data File: \\pp1tpa02\chem\gc4.i\5280-G.b\D-B5571.d
Date: 23-AUG-2000 21:32
Client ID:
Sample Info: HEDB,5280-G,b,1,NDB.sub,2,3
Column phase: DB1701

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



Data File: \\gpitpa02\d\chem\gc4.i\5280-G.b\D-B5572.d
 Report Date: 28-Aug-2000 11:13

STL - Pittsburgh

Data file : \\gpitpa02\d\chem\gc4.i\5280-G.b\D-B5572.d
 Lab Smp Id: EVALB
 Inj Date : 23-AUG-2000 21:59
 Operator : 1891 Inst ID: gc4.i
 Smp Info : EVALB,5280-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : \\gpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
 Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
 Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 4.04
 Processing Host: PITPC043

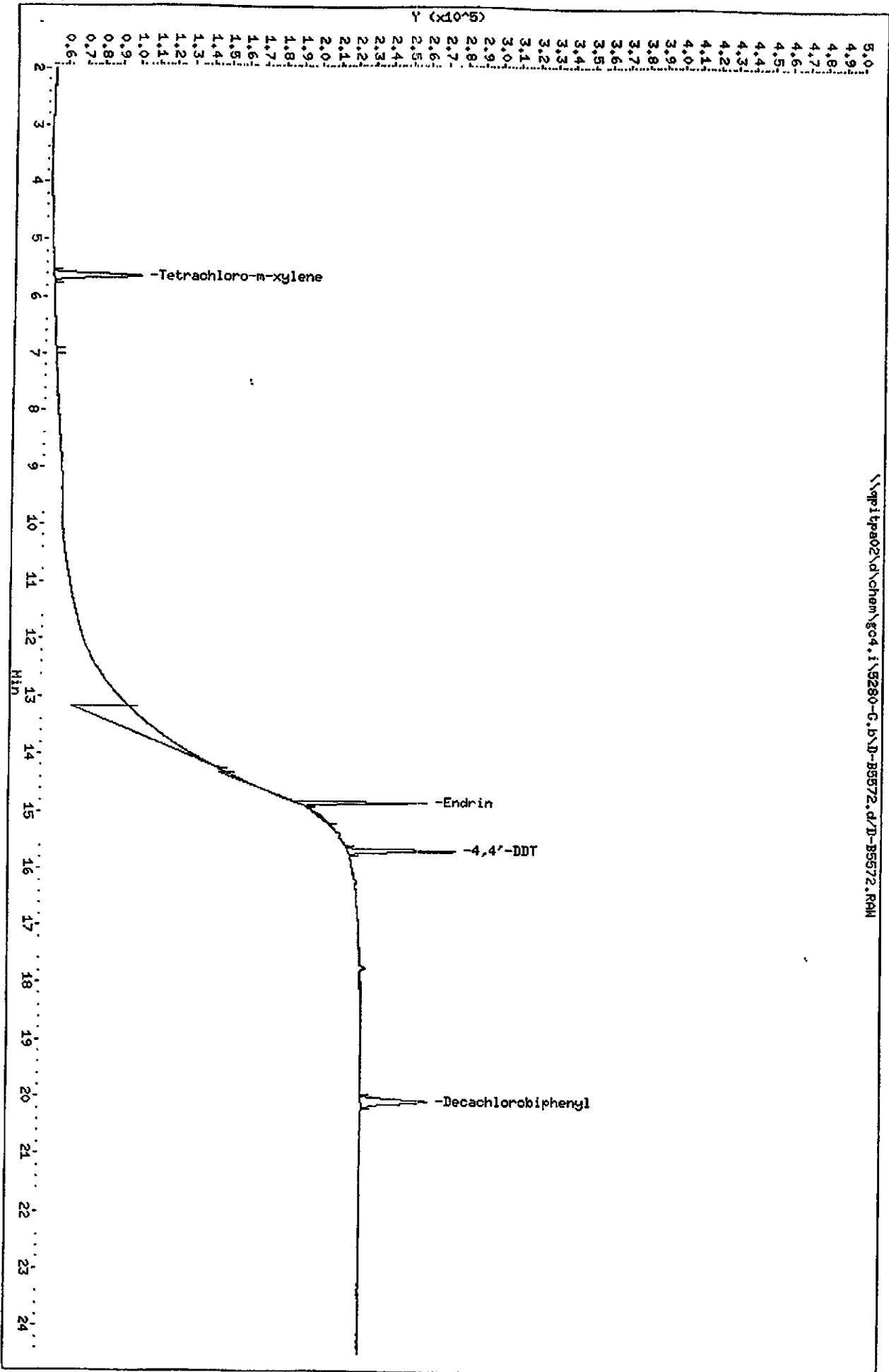
Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	47872	0.02094	0.02094 (R)
16 4,4'-DDE	Compound Not Detected.					
20 Endrin	14.820	14.820	0.000	71695	0.02268	0.02268
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.660	15.660	0.000	59407	0.02391	0.02391
24 Endrin aldehyde	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected.					
\$ 30 Decachlorobiphenyl	20.060	20.060	0.000	36265	0.02144	0.02144 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\pp1tpa02\chem\gc4.i\5280-G.b.D-B5572.d
Date: 23-AUG-2000 24:59
Client ID:
Sample Info: EVALB, 5280-G.b, EVALBR, sub, 3,1
Column phase: DB1701

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



Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5593.d
 Report Date: 28-Aug-2000 11:16

STL - Pittsburgh

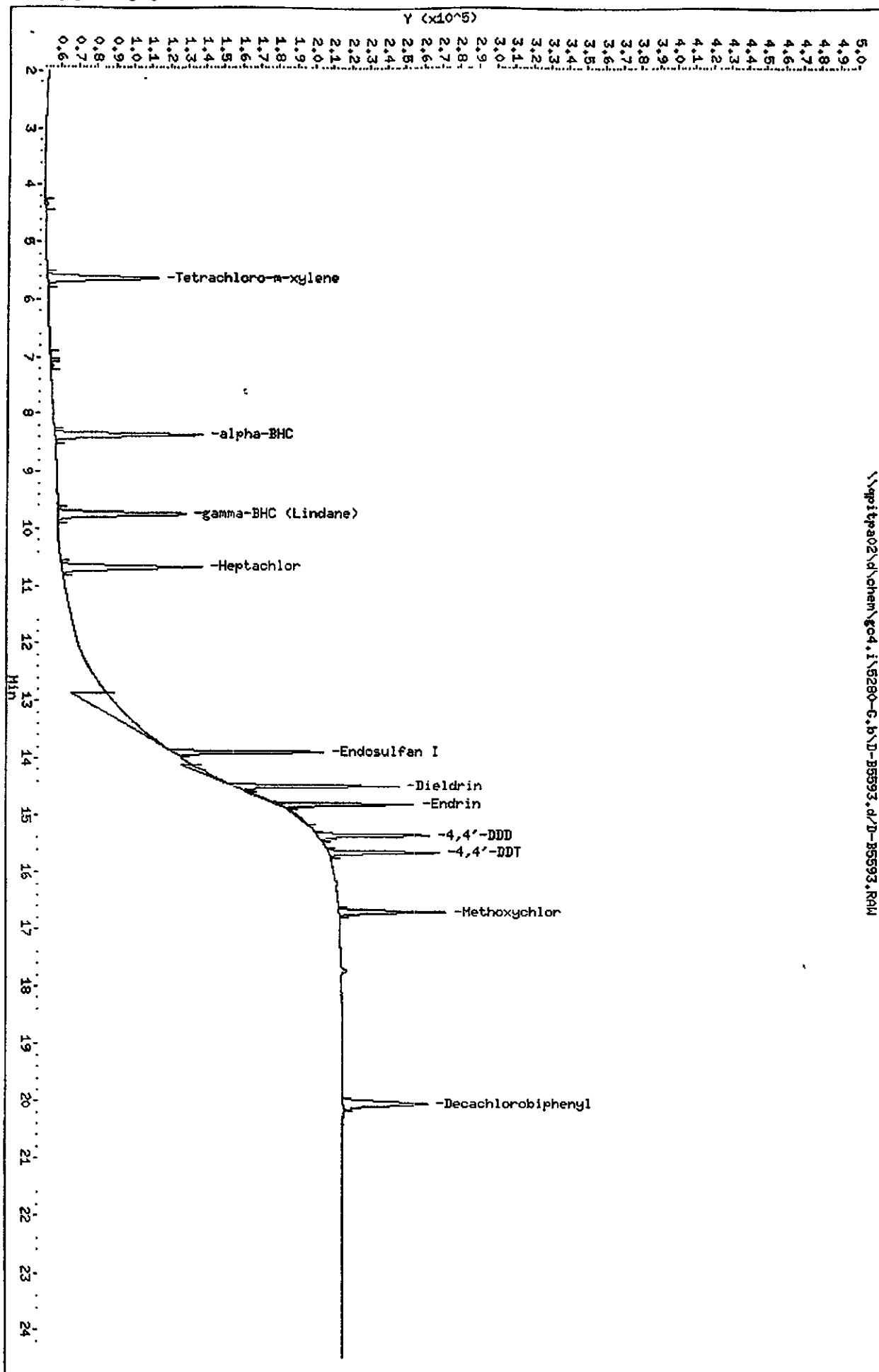
Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5593.d
 Lab Smp Id: MEDA
 Inj Date : 24-AUG-2000 07:41
 Operator : 1891
 Smp Info : MEDA,5280-G.b,,INDA.sub,,2,3
 Misc Info : 190-84-3
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
 Meth Date : 28-Aug-2000 11:11 gc
 Cal Date : 08-AUG-2000 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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	60857	0.02500	0.02662
5 alpha-BHC	8.373	8.380	-0.007	80819	0.02500	0.02637
6 gamma-BHC (Lindane)	9.760	9.760	0.000	70258	0.02500	0.02649
10 Heptachlor	10.680	10.686	-0.006	76358	0.02500	0.02597
15 Endosulfan I	13.906	13.906	0.000	82134	0.02500	0.02570
17 Dieldrin	14.500	14.506	-0.006	89746	0.02500	0.02643
20 Endrin	14.820	14.820	0.000	73713	0.02500	0.02331
21 4,4'-DDD	15.366	15.366	0.000	61109	0.02500	0.02485
23 4,4'-DDT	15.660	15.660	0.000	60038	0.02500	0.02416
25 Methoxychlor	16.700	16.700	0.000	58068	0.05000	0.04973
\$ 30 Decachlorobiphenyl	20.053	20.060	-0.007	45626	0.02500	0.02698

Data File: \\pittpa02\chem\gc4.i\5280-G.b\D-B5593.d
Date : 24-AUG-2000 07:44
Client ID:
Sample Info: HEMA,5280-G.b,,INDA.sub,,2,3
Column phase: DB1701

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



Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5594.d
 Report Date: 28-Aug-2000 11:16

STL - Pittsburgh

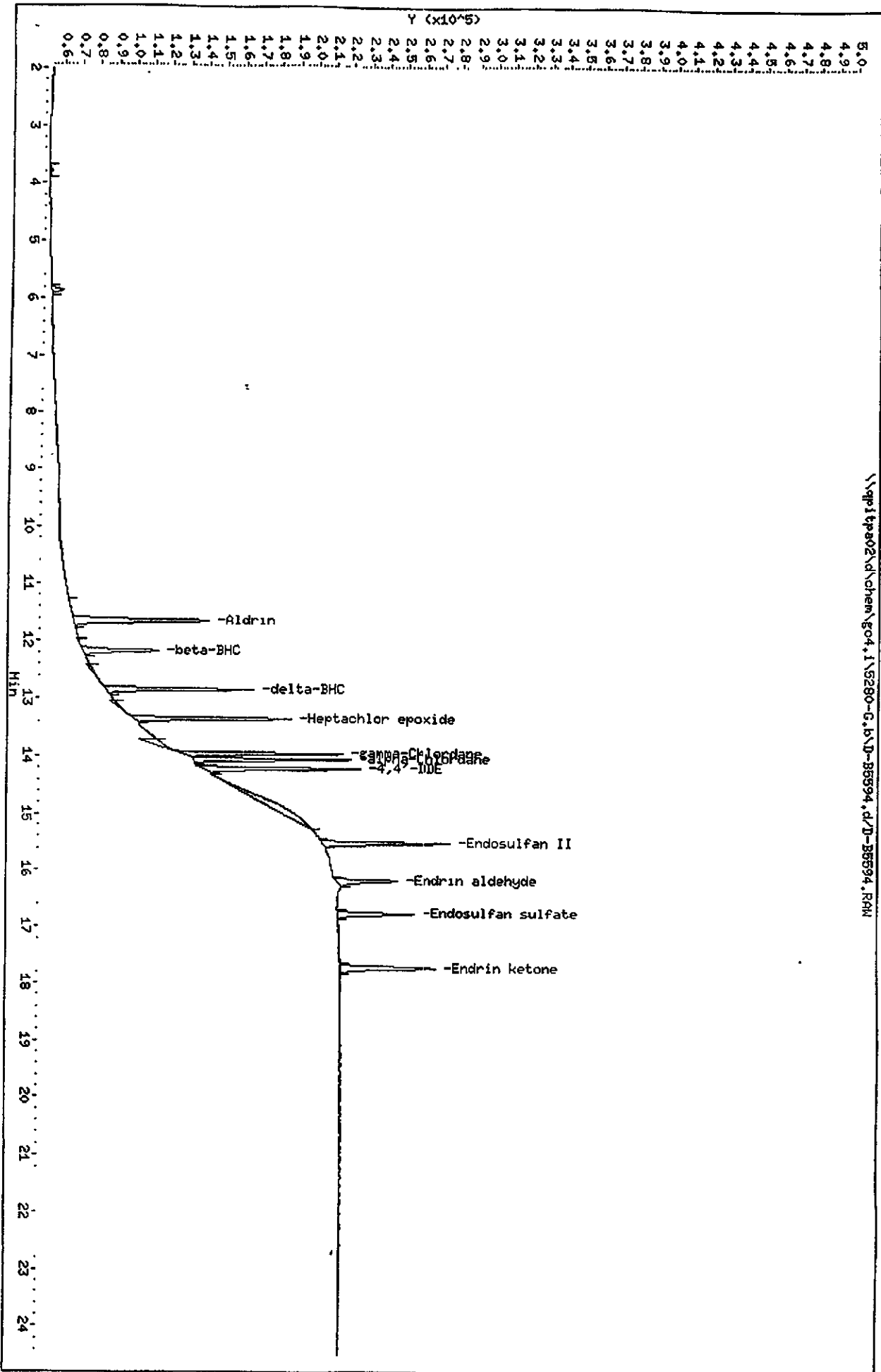
Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5594.d
 Lab Smp Id: MEDB
 Inj Date : 24-AUG-2000 08:09
 Operator : 1891
 Smp Info : MEDB,5280-G.b,,INDB.sub,,2,3
 Misc Info : 190-84-9
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
 Meth Date : 28-Aug-2000 11:11 gc
 Cal Date : 08-AUG-2000 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	11.653	11.660	-0.007	74341	0.02500	0.02610
7 beta-BHC	12.180	12.186	-0.006	41713	0.02500	0.02509
8 delta-BHC	12.853	12.860	-0.007	80851	0.02500	0.02353
12 Heptachlor epoxide	13.353	13.360	-0.007	87269	0.02500	0.02634
13 gamma-Chlordane	13.960	13.966	-0.006	87394	0.02500	0.02576
14 alpha-Chlordane	14.060	14.066	-0.006	86132	0.02500	0.02604
16 4,4'-DDE	14.220	14.220	0.000	86302	0.02500	0.02562
22 Endosulfan II	15.513	15.520	-0.007	70128	0.02500	0.02450
24 Endrin aldehyde	16.180	16.186	-0.006	33591	0.02500	0.02506
26 Endosulfan sulfate	16.766	16.773	-0.007	42145	0.02500	0.02406
27 Endrin ketone	17.733	17.740	-0.007	52965	0.02500	0.02566

Data File: \\pp1tpa02\chem\g04.1\5280-G.b\D-B5594.d
Date: 24-AUG-2000 08:09
Client ID:
Sample Info: HEDB,5280-G.b,INDB,sub,2,3
Column phase: DB1701

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



**PESTICIDE
QC DATA**

669 538

UXE INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH210000 434

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DJ6M5101

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: NA

QC Batch: 0234434

Client Sample Id: INTRA-LAB BLANK

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

FORM I

Data File: \\gpitpa02\d\chem\gc4.i\5280-G.b\D-B5582.d
 Report Date: 28-Aug-2000 11:14

STL - Pittsburgh

Data file : \\gpitpa02\d\chem\gc4.i\5280-G.b\D-B5582.d
 Lab Smp Id: DJ6M5101 Client Smp ID: PBLK4434
 Inj Date : 24-AUG-2000 02:37
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DJ6M5101,5280-G.b,,PEST.sub,,3,
 Misc Info : 160154BLK
 Comment :
 Method : \\gpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
 Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
 Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC043

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.626	5.633	-0.007	40837	0.01786	0.001786 (aR)
5 alpha-BHC						
6 gamma-BHC (Lindane)						
9 Chlordane						
10 Heptachlor						
11 Aldrin						
7 beta-BHC						
8 delta-BHC						
12 Heptachlor epoxide						
15 Endosulfan I						
13 gamma-Chlordane						
14 alpha-Chlordane						
16 4,4'-DDE						
17 Dieldrin						
20 Endrin						

669 540

Data File: \\gpitpa02\d\chem\gc4.i\5280-G.b\D-B5582.d
 Report Date: 28-Aug-2000 11:14

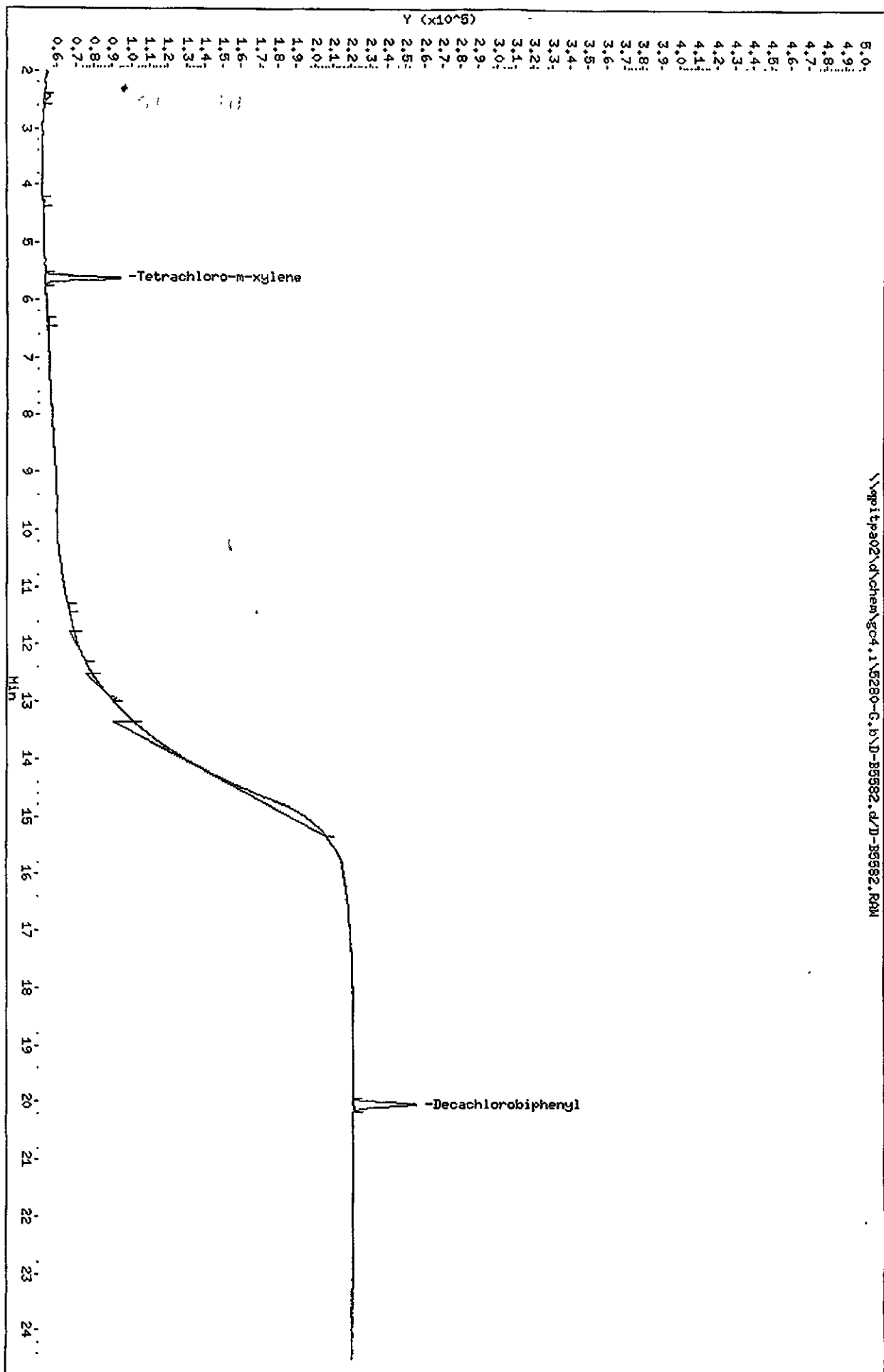
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
18 Toxaphene				Compound Not Detected.		
21 4,4'-DDD				Compound Not Detected.		
22 Endosulfan II				Compound Not Detected.		
23 4,4'-DDT				Compound Not Detected.		
24 Endrin aldehyde				Compound Not Detected.		
25 Methoxychlor				Compound Not Detected.		
26 Endosulfan sulfate				Compound Not Detected.		
58 MIREX				Compound Not Detected.		
29 Kepone				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected.		
\$ 30 Decachlorobiphenyl	20.053	20.060	-0.007	33939	0.02007	0.002007(aR)

QC Flag Legend

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

Data File: \\p1tpa02\chem\gc4.1\5280-G.b.D-B5582.d
Date: 24-AUG-2000 02:37
Client ID: PBLK4434
Sample Info: D36H5101, 5280-G.b., PEST, sub, 3,
Volume Injected (uL): 1.0
Column phase: DB1701

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



669 542

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H210000 434

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DJ6M5102

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: NA

QC Batch: 0234434

Client Sample Id: CHECK SAMPLE

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

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5583.d
 Report Date: 28-Aug-2000 11:14

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5583.d
 Lab Smp Id: DJ6M5102 Client Smp ID: LCS4434
 Inj Date : 24-AUG-2000 03:04
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DJ6M5102,5280-G.b,,PEST.sub,,3,
 Misc Info : 160154LCS
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
 Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
 Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC043

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.626	5.633	-0.007	92830	0.04060	0.004060(aR)
5 alpha-BHC	8.373	8.380	-0.007	41043	0.01339	0.001339(a)
6 gamma-BHC (Lindane)	9.760	9.760	0.000	44918	0.01694	0.001694(aR)
9 Chlordane						Compound Not Detected.
10 Heptachlor	10.686	10.686	0.000	68539	0.02331	0.002331(aR)
11 Aldrin	11.653	11.660	-0.007	66157	0.02323	0.002323(aR)
7 beta-BHC	12.180	12.186	-0.006	38657	0.02325	0.002325(a)
8 delta-BHC						Compound Not Detected.
12 Heptachlor epoxide	13.353	13.360	-0.007	78766	0.02377	0.002377(a)
15 Endosulfan I	13.906	13.906	0.000	62467	0.01955	0.001954(a)
13 gamma-Chlordane	13.960	13.966	-0.006	70063	0.02065	0.002065(a)
14 alpha-Chlordane	14.060	14.066	-0.006	77460	0.02342	0.002342(a)
16 4,4'-DDE	14.220	14.220	0.000	88683	0.02633	0.002633(a)
17 Dieldrin	14.500	14.506	-0.006	82589	0.02432	0.002432(aR)
20 Endrin	14.820	14.820	0.000	70802	0.02239	0.002239(aR)
18 Toxaphene						Compound Not Detected.

669 544

Data File: \\gpitpa02\d\chem\gc4.i\5280-G.b\D-B5583.d
 Report Date: 28-Aug-2000 11:14

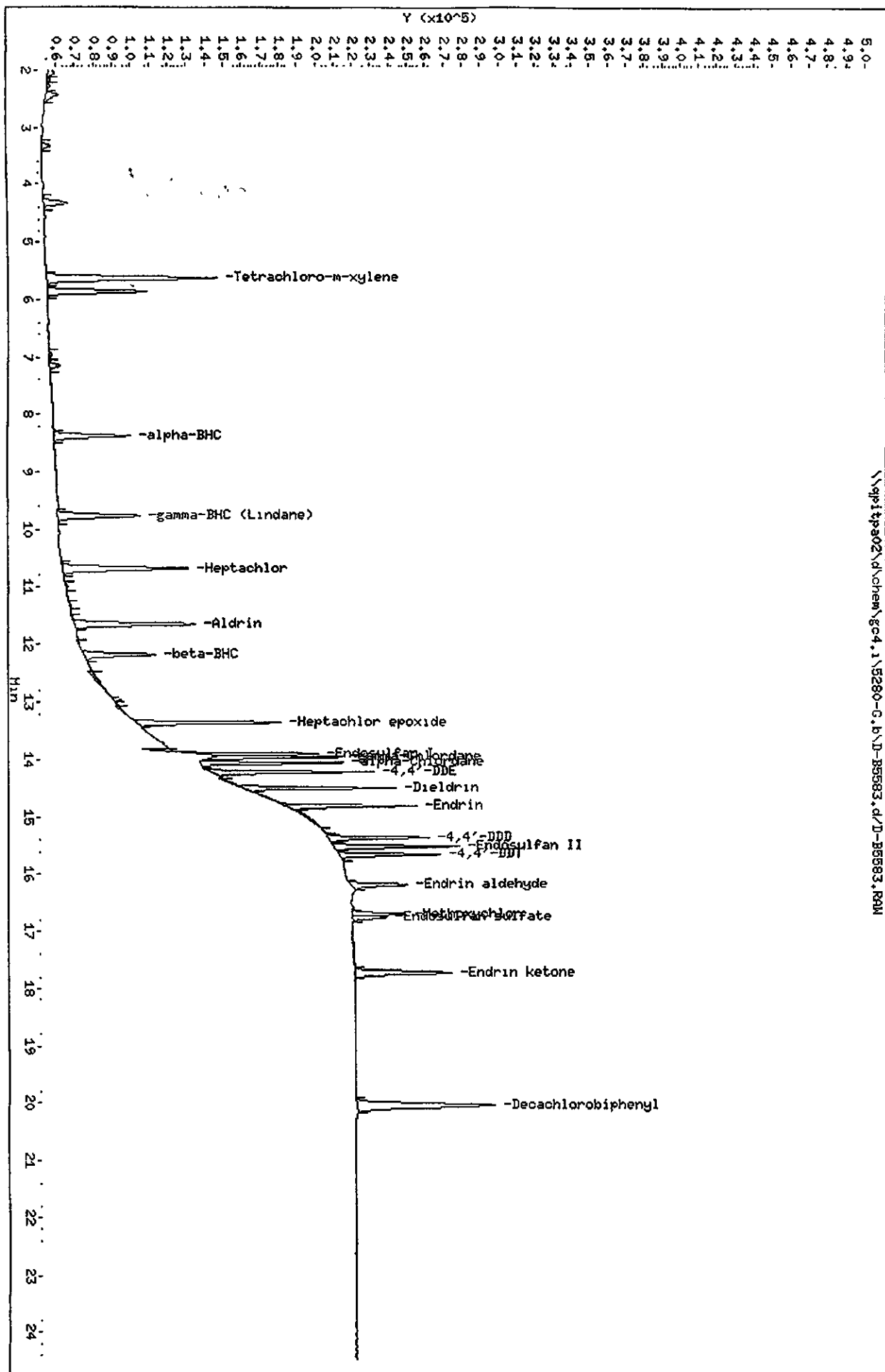
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
21 4,4'-DDD	15.366	15.366	0.000	54688	0.02224	0.002224 (a)
22 Endosulfan II	15.513	15.520	-0.007	68017	0.02376	0.002376 (a)
23 4,4'-DDT	15.660	15.660	0.000	54807	0.02206	0.002206 (aR)
24 Endrin aldehyde	16.180	16.186	-0.006	31428	0.02344	0.002344 (a)
25 Methoxychlor	16.700	16.700	0.000	29130	0.02495	0.002494 (a)
26 Endosulfan sulfate	16.766	16.773	-0.007	18642	0.01064	0.001064 (a)
58 MIREX	Compound Not Detected.					
29 Kepone	Compound Not Detected.					
27 Endrin ketone	17.733	17.740	-0.007	52702	0.02553	0.002553 (a)
\$ 30 Decachlorobiphenyl	20.060	20.060	0.000	75107	0.04441	0.004441 (aR)

QC Flag Legend

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

Data File: \\sp1tpa02\chem\gc4.1\5280-G.b\D-B5583.d
 Date: 24-AUG-2000 03:04
 Client ID: LCS4434
 Sample Info: D16H5102,5280-G.b,PEST,sub,3,
 Volume Injected (uL): 1.0
 Column phase: DB1701

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



669 546

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX40119

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 20

QC Batch: 0234434

Client Sample Id: DF/S1/0228/SDC/026

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00234	
76-44-8	Heptachlor	0.00226	
1024-57-3	Heptachlor epoxide	0.00228	
58-89-9	Lindane	0.00161	
72-43-5	Methoxychlor	0.00247	

FORM I

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5584.d
 Report Date: 28-Aug-2000 11:15

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5584.d
 Lab Smp Id: DHX40119 Client Smp ID: DF/S1/0228/SDC/026S
 Inj Date : 24-AUG-2000 03:32
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DHX40119,5280-G.b,,PEST.sub,,3,
 Misc Info : 160154001S
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
 Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
 Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC043

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
*****	==	*****	*****	*****	*****	*****
\$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	88629	0.03877	0.003876(aR)
5 alpha-BHC	8.373	8.380	-0.007	39263	0.01281	0.001281(a)
6 gamma-BHC (Lindane)	9.760	9.760	0.000	42764	0.01612	0.001612(aR)
9 Chlordane	Compound Not Detected.					
10 Heptachlor	10.686	10.686	0.000	66520	0.02263	0.002263(aR)
11 Aldrin	11.653	11.660	-0.007	64082	0.02250	0.002250(aR)
7 beta-BHC	12.180	12.186	-0.006	37523	0.02257	0.002257(a)
8 delta-BHC	Compound Not Detected.					
12 Heptachlor epoxide	13.353	13.360	-0.007	75553	0.02280	0.002280(a)
15 Endosulfan I	13.906	13.906	0.000	59003	0.01846	0.001846(a)
13 gamma-Chlordane	13.960	13.966	-0.006	66230	0.01952	0.001952(a)
14 alpha-Chlordane	14.066	14.066	0.000	75722	0.02289	0.002289(a)
16 4,4'-DDE	14.220	14.220	0.000	86360	0.02564	0.002564(a)
17 Dieldrin	14.500	14.506	-0.006	82059	0.02417	0.002416(aR)
20 Endrin	14.820	14.820	0.000	74080	0.02343	0.002343(aR)
18 Toxaphene	Compound Not Detected.					

669 548

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5584.d

Report Date: 28-Aug-2000 11:15

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
21 4,4'-DDD	15.366	15.366	0.000	58370	0.02374	0.002374(a)
22 Endosulfan II	15.513	15.520	-0.007	68345	0.02387	0.002387(a)
23 4,4'-DDT	15.660	15.660	0.000	52980	0.02132	0.002132(aR)
24 Endrin aldehyde	16.186	16.186	0.000	30372	0.02266	0.002266(a)
25 Methoxychlor	16.700	16.700	0.000	28795	0.02466	0.002466(a)
26 Endosulfan sulfate	16.766	16.773	-0.007	18160	0.01037	0.001037(a)
58 MIREX	Compound Not Detected.					
29 Kepone	Compound Not Detected.					
27 Endrin ketone	17.733	17.740	-0.007	50999	0.02470	0.002470(a)
\$ 30 Decachlorobiphenyl	20.060	20.060	0.000	72760	0.04302	0.004302(aR)

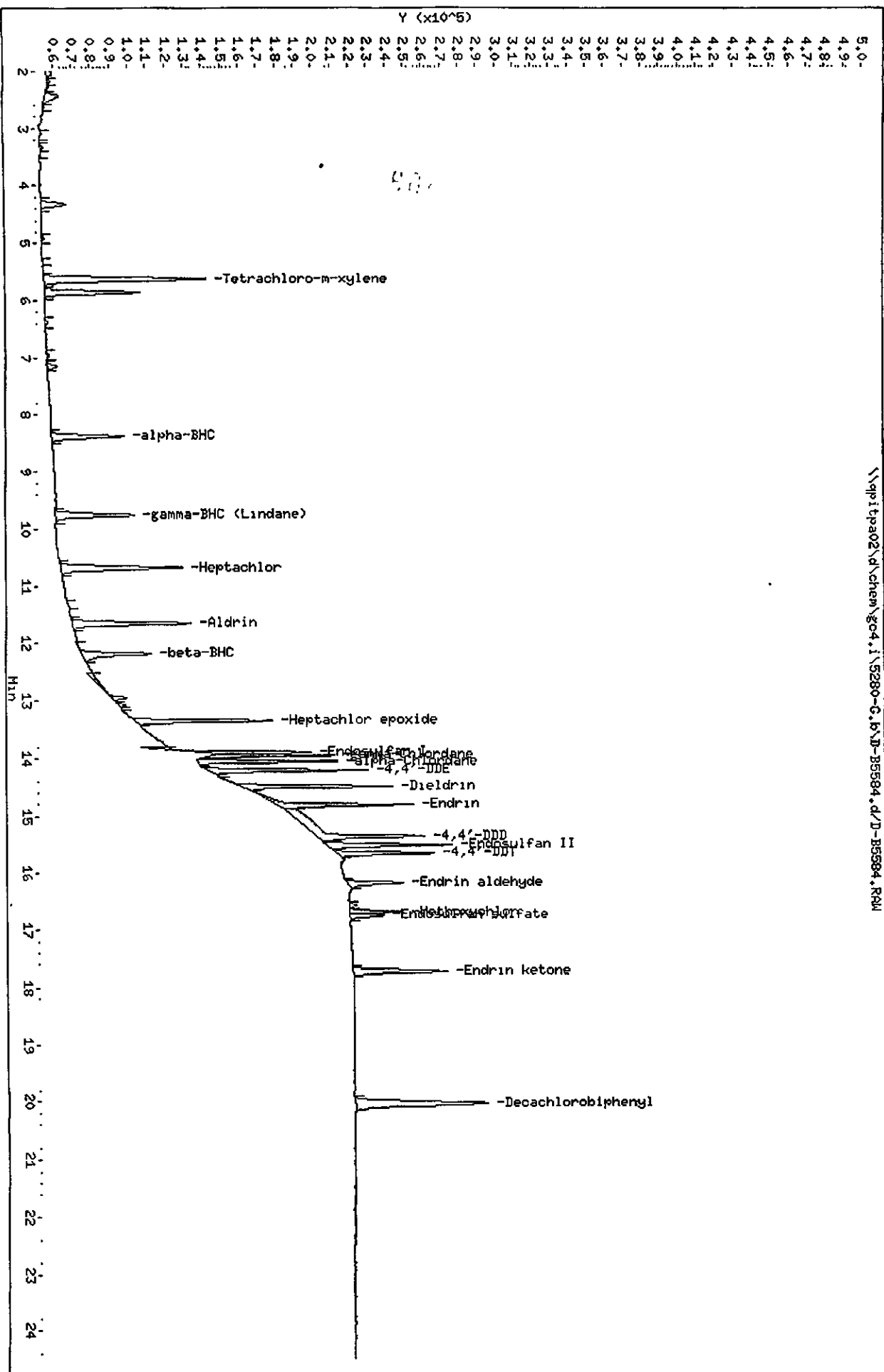
QC Flag Legend

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

R - Spike/Surrogate failed recovery limits.

Data File: \\pp1tpa02\chem\gc4.1\5280-G.b\D-B5584.d
 Date : 24-AUG-2000 03:32
 Client ID: DF/SI/0228/SIC/0265
 Sample Info: DMX40119, 5280-G.b, PEST, sub, 3,
 Volume Injected (uL): 1.0
 Column phase: DB1701

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



669 550

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX4011A

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/24/00

Moisture %: 20

QC Batch: 0234434

Client Sample Id: DF/S1/0228/SDC/026

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00232	
76-44-8	Heptachlor	0.00228	
1024-57-3	Heptachlor epoxide	0.00233	
58-89-9	Lindane	0.00164	
72-43-5	Methoxychlor	0.00247	

FORM I

Data File: \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5585.d
 Report Date: 28-Aug-2000 11:15

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\5280-G.b\D-B5585.d
 Lab Smp Id: DHX4011A Client Smp ID: DF/S1/0228/SDC/026D
 Inj Date : 24-AUG-2000 04:00
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DHX4011A,5280-G.b,,PEST.sub,,3,
 Misc Info : 160154001D
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\5280-G.b\PESTB.m
 Meth Date : 28-Aug-2000 11:11 gc Quant Type: ESTD
 Cal Date : 08-AUG-2000 01:35 Cal File: D-B5173.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC043

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compound	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.633	5.633	0.000	89580	0.03918	0.003918(aR)
5 alpha-BHC	8.373	8.380	-0.007	39616	0.01293	0.001293(a)
6 gamma-BHC (Lindane)	9.760	9.760	0.000	43369	0.01635	0.001635(aR)
9 Chlordane	Compound Not Detected.					
10 Heptachlor	10.686	10.686	0.000	66974	0.02278	0.002278(aR)
11 Aldrin	11.653	11.660	-0.007	64257	0.02256	0.002256(aR)
7 beta-BHC	12.180	12.186	-0.006	37567	0.02259	0.002259(a)
8 delta-BHC	Compound Not Detected.					
12 Heptachlor epoxide	13.353	13.360	-0.007	77256	0.02331	0.002331(a)
15 Endosulfan I	13.906	13.906	0.000	59403	0.01859	0.001859(a)
13 gamma-Chlordane	13.960	13.966	-0.006	67405	0.01987	0.001987(a)
14 alpha-Chlordane	14.060	14.066	-0.006	76305	0.02307	0.002307(a)
16 4,4'-DDE	14.220	14.220	0.000	86811	0.02577	0.002577(a)
17 Dieldrin	14.500	14.506	-0.006	83262	0.02452	0.002452(aR)
20 Endrin	14.820	14.820	0.000	73441	0.02323	0.002323(aR)
18 Toxaphene	Compound Not Detected.					

669 552

Data File: \\gpitpa02\d\chem\gc4.i\5280-G.b\D-B5585.d
 Report Date: 28-Aug-2000 11:15

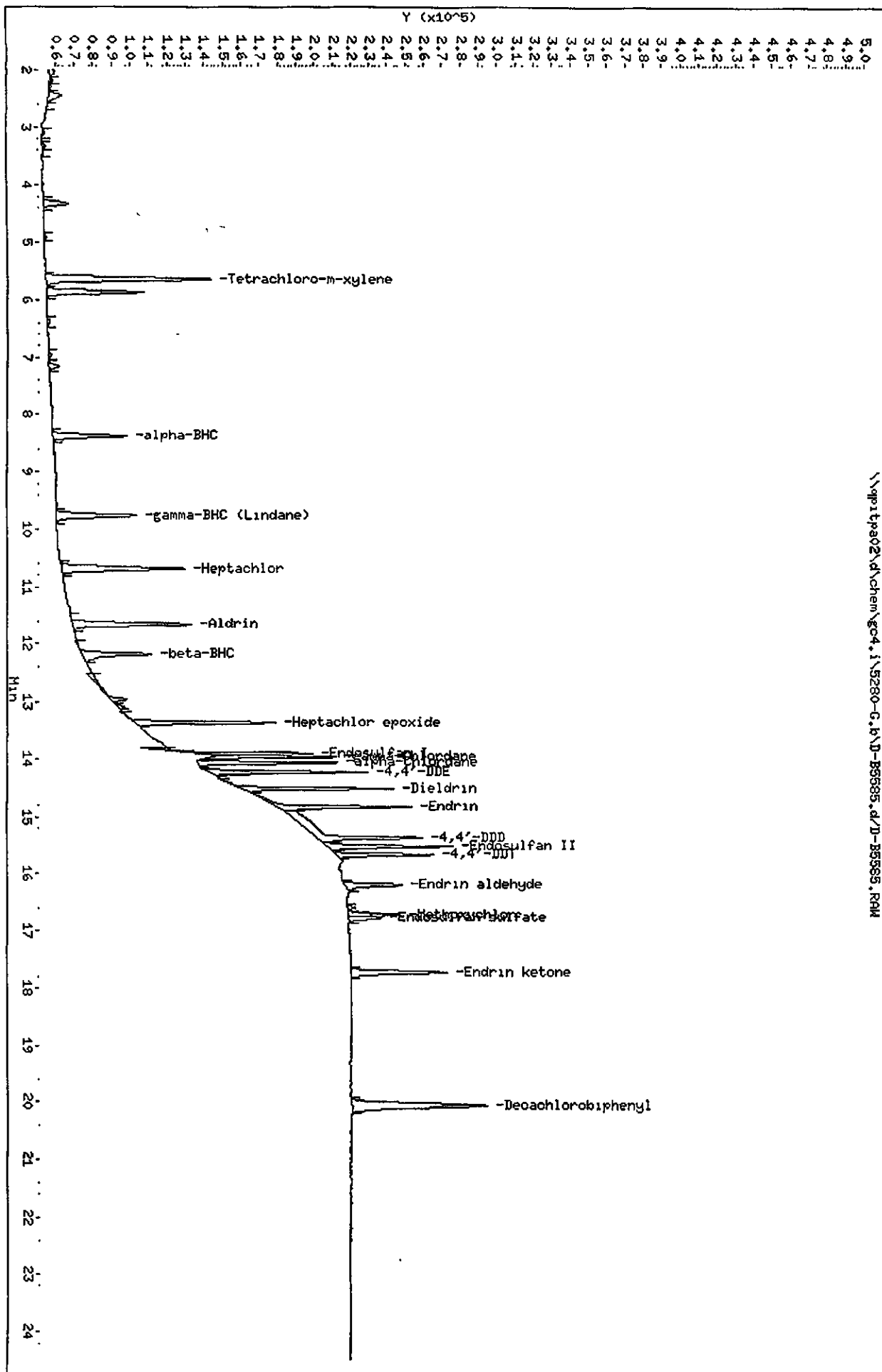
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
21 4,4'-DDD	15.360	15.266	-0.006	58561	0.02382	0.002382(a)
22 Endosulfan II	15.513	15.520	-0.007	68807	0.02404	0.002404(a)
23 4,4'-DDT	15.660	15.660	0.000	53251	0.02143	0.002143(aR)
24 Endrin aldehyde	16.180	16.186	-0.006	31052	0.02316	0.002316(a)
25 Methoxychlor	16.700	16.700	0.000	28832	0.02469	0.002469(a)
26 Endosulfan sulfate	16.766	16.773	-0.007	18126	0.01035	0.001035(a)
58 MIREX	Compound Not Detected.					
29 Kepone	Compound Not Detected.					
27 Endrin ketone	17.733	17.740	-0.007	52288	0.02533	0.002533(a)
\$ 30 Decachlorobiphenyl	20.060	20.060	0.000	73964	0.04374	0.004374(aR)

QC Flag Legend

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

Data File: \\npitpa02\chem\gc4.1\5280-G.b.D-85585.d
 Date : 24-AUG-2000 04:00
 Client ID: DF/S1/0228/SDC/026D
 Sample Info: JHX401A, 5280-G.b., PEST, sub., 3,
 Volume injected (uL): 1.0
 Column phase: DB1701

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



669 554

**PESTICIDE
MISCELLANEOUS**

Separatory Funnel Extraction Worksheet

B#0234434



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

(TLC)

Havane

T03268

Date Extraction Began	Lot Number	Date Completed	Sample ID	Client ID	Method	pH	Sample Volume (mL)	Final Volume (mL)	Solvent Lot	Solvent Mfg.	Surrogate Number	Surrogate Volume (mL)	Matrix Spike No.	Matrix Spike Volume (mL)	Clean up Method	Clean up Date
8-21-00	8-22-00	8-22-00	POH160154	8081A	3510A	5	100	100	MECL	MECL	190-99-11	1.0	NA	NA	NA	NA
			POH160155			5	100	100								
			POH160156			5	100	100								
			POH160157			5	100	100								
			POH160158			5	100	100								
			POH160159			5	100	100								
			POH160160			5	100	100								
			POH160161			5	100	100								
			POH160162			5	100	100								
			POH160163			5	100	100								
			POH160164			5	100	100								
			POH160165			5	100	100								
			POH160166			5	100	100								
			POH160167			5	100	100								
			POH160168			5	100	100								
			POH160169			5	100	100								
			POH160170			5	100	100								
			POH160171			5	100	100								
			POH160172			5	100	100								
			POH160173			5	100	100								
			POH160174			5	100	100								
			POH160175			5	100	100								
			POH160176			5	100	100								
			POH160177			5	100	100								
			POH160178			5	100	100								
			POH160179			5	100	100								
			POH160180			5	100	100								
			POH160181			5	100	100								
			POH160182			5	100	100								
			POH160183			5	100	100								
			POH160184			5	100	100								
			POH160185			5	100	100								
			POH160186			5	100	100								
			POH160187			5	100	100								
			POH160188			5	100	100								
			POH160189			5	100	100								
			POH160190			5	100	100								
			POH160191			5	100	100								
			POH160192			5	100	100								
			POH160193			5	100	100								
			POH160194			5	100	100								
			POH160195			5	100	100								
			POH160196			5	100	100								
			POH160197			5	100	100								
			POH160198			5	100	100								
			POH160199			5	100	100								
			POH160200			5	100	100								
			POH160201			5	100	100								
			POH160202			5	100	100								
			POH160203			5	100	100								
			POH160204			5	100	100								
			POH160205			5	100	100								
			POH160206			5	100	100								
			POH160207			5	100	100								
			POH160208			5	100	100								
			POH160209			5	100	100								
			POH160210			5	100	100								
			POH160211			5	100	100								
			POH160212			5	100	100								
			POH160213			5	100	100								
			POH160214			5	100	100								
			POH160215			5	100	100								
			POH160216			5	100	100								
			POH160217			5	100	100								
			POH160218			5	100	100								
			POH160219			5	100	100								
			POH160220			5	100	100								
			POH160221			5	100	100								
			POH160222			5	100	100								
			POH160223			5	100	100								
			POH160224			5	100	100								
			POH160225			5	100	100								
			POH160226			5	100	100								
			POH160227			5	100	100								
			POH160228			5	100	100								
			POH160229			5	100	100								
			POH160230			5	100	100								
			POH160231			5	100	100								
			POH160232			5	100	100								
			POH160233			5	100	100								
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			POH160251			5	100	100								
			POH160252			5	100	100								
			POH160253			5	100	100								
			POH160254			5	100	100								
			POH160255			5	100	100								
			POH160256			5	100	100								
			POH160257			5	100	100								
			POH160258			5	100	100								
			POH160259			5	100	100								

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 : QUAN TERRA PGH 8081 RUN ON GC#4 DB608/DB1701
REVIEWED BY:

669 556

Number of Times Edited : 1

Sequence File Header Information:

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

Sequence Sample Descriptions - Channel B												
Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB, 5080-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal:Replace	MEDTOX, 5080-G.b	190-98-12		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR, 5080-G	190-85-10		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Cal:Replace	LOWIX, 5080-G.b,	190-80-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MLGWIX, 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

				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:

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Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\5230-G.SEQ
 Created by : DE11/02/98 on : 8/23/00 11:07
 Edited by : LM08/23/00 on : 8/28/00 09:39
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
 REVIEWED BY:

669 558

H

Number of Times Edited : 8

Sequence File Header Information:

Number of Rows : 177
 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, 5280-G.b,	190-88-8	545		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal: Replace	MEDTOX, 5280-G.b	190-98-12			1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
3	Cal: Replace	MEDCHLOR, 5280-G	190-85-10			1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Cal: Replace	MEDA, 5280-G.b,,	190-84-3			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal: Replace	MEDB, 5280-G.b,,	190-84-9			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	DGLF4113, 5280-G	210212001			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	DHNBP10A, 5280-G	100270006			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	DHV7M103, 5280-G	150146001			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	~~DHLXR108, 5280-G~~	~~100137001~~			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	DHLXR108, 5280-G	100137002			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	~~DHLXR108, 5280-G~~	~~100137003~~			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	~~DHLXR108, 5280-G~~	~~100137004~~			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	DHM03108, 5280-G	100137005			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	DHM06108, 5280-G	100137006			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	DHM07108, 5280-G	100137007			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	DHM0A108, 5280-G	100137008			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DHM0A11G, 5280-G	100137008S			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DHM0A11H, 5280-G	100137008D			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DHM0E108, 5280-G	100137009			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DHM0F108, 5280-G	100137010			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DHM0M108, 5280-G	100137012			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DHM0R108, 5280-G	100137014			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DJ412115, 5280-G	180213004S			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DHQEW101, 5280-G	100137BLK			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DHQEW102, 5280-G	100137LCS			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Std Check	MEDA, 5280-G.b,,	190-84-3			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Std Check	MEDB, 5280-G.b,,	190-84-9	571		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Std Check	EVALB, 5280-G.b,	190-88-8			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DJ412116, 5280-G	180213004D			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DJ412104, 5280-G	180213004			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DJ417104, 5280-G	180213005			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DJ4WJ101, 5280-G	180213BLK			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DJ4WJ102, 5280-G	180213LCS			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DJ52C101, 5280-G	180213BLK			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DJ52C102, 5280-G	180213LCS			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DJ52C103, 5280-G	180213LCD			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	DJ401103, 5280-G	180213001			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample	DJ6M5101, 5280-G	160154BLK			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample	DJ6M5102, 5280-G	160154LCS			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DHX40119, 5280-G	160154001S			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DHX4011A, 5280-G	160154001D			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DHX40104, 5280-G	160154001			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DHX47104, 5280-G	160154002			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DHX4A104, 5280-G	160154003			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DJ0QL104, 5280-G	170113001			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DJ4C3101, 5280-G	170224BLK			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DJ4C3102, 5280-G	170224LCS			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	DJ4C3103, 5280-G	170224LCD			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Std Check	MEDA, 5280-G.b,,	190-84-3			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Std Check	MEDB, 5280-G.b,,	190-84-9	594		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Std Check	EVALB, 5280-G.b,	190-88-8			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DJ1RT103, 5280-G	170224001			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DJ1WG103, 5280-G	170224003			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DJ1X0103, 5280-G	170224004			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	DJ2N3101, 5280-G	160223BLK			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DJ2N3102, 5280-G	160223LCS			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DJ2N3103, 5280-G	160223LCD			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DHXN9104, 5280-G	160223001			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DHXND104, 5280-G	160223002			1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

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147	Sample	DHV5K104, 5280-G	150136006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
148	Sample	DHV5M104, 5280-G	150136007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
149	Sample	~~DHV5Q104, 5280-G~~	~~150136008~~	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
150	Sample	DHV5T104, 5280-G	150136009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
151	Sample	DHV5X104, 5280-G	150136010	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
152	Sample	DHV60104, 5280-G	150136011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
153	Sample	DJAN5101, 5280-G	1802780LK	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
154	Sample	DJAN5102, 5280-G	1802781CS	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
155	Sample	DJ4M410M, 5280-G	180278001S	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
156	Sample	DJ4M410N, 5280-G	180278001D	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
157	Sample	DJ4M4103, 5280-G	180278001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
158	Sample	DJ7C810V, 5280-G	220139001S	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
159	Sample	DJ7C810W, 5280-G	220139001D	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
160	Sample	DJ7C8104, 5280-G	220139001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
161	Sample	DJ7C9104, 5280-G	220139002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
162	Sample	DJDTA101, 5280-G	220139BLK	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
163	Sample	DJDTA102, 5280-G	220139LCS	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
164	Std Check	MEDA, 5280-G.b.,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
165	Std Check	MEDB, 5280-G.b.,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
166	Std Check	EVALB, 5280-G.b.,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
167	Sample	DJ7CC104, 5280-G	220139003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
168	Sample	DHLX6108, 5280-G	100137001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
169	Sample	~~DHLXW108, 5280-G~~	~~100137002~~	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
170	Sample	DHLKT108, 5280-G	100137003	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
171	Sample	DHLXW108, 5280-G	100137004	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
172	Sample	~~DHMOA108, 5280-G~~	~~100137005~~	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
173	Sample	DHMOA108, 5280-G	100137008	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
174	Sample	DHMOA11G, 5280-G	100137008S	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
175	Sample	~~DHMOA11H, 5280-G~~	~~100137008S~~	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
176	Std Check	MEDA, 5280-G.b.,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
177	Std Check	MEDB, 5280-G.b.,	190-84-9	1.000	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-B5545	D-B5545		D-B5545	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B5546	D-B5546		D-B5546	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B5547	D-B5547		D-B5547	N	MED	N	LPT1:,LP
4	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5548	D-B5548		D-B5548	N	MLOW	N	LPT1:
5	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5549	D-B5549		D-B5549	N	MLOW	N	LPT1:
6	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5550	D-B5550		D-B5550	-	-	-	LPT1:
7	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5551	D-B5551		D-B5551	-	-	-	LPT1:
8	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5552	D-B5552		D-B5552	-	-	-	LPT1:
9	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5553	D-B5553		D-B5553	-	-	-	LPT1:
10	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5554	D-B5554		D-B5554	-	-	-	LPT1:
11	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5555	D-B5555		D-B5555	-	-	-	LPT1:
12	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5556	D-B5556		D-B5556	-	-	-	LPT1:
13	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5557	D-B5557		D-B5557	-	-	-	LPT1:
14	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5558	D-B5558		D-B5558	-	-	-	LPT1:
15	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5559	D-B5559		D-B5559	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5560	D-B5560		D-B5560	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5561	D-B5561		D-B5561	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5562	D-B5562		D-B5562	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5563	D-B5563		D-B5563	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5564	D-B5564		D-B5564	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5565	D-B5565		D-B5565	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5566	D-B5566		D-B5566	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5567	D-B5567		D-B5567	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5568	D-B5568		D-B5568	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5569	D-B5569		D-B5569	-	-	-	LPT1:
26	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5570	D-B5570		D-B5570	-	-	-	LPT1:
27	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5571	D-B5571		D-B5571	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5572	D-B5572		D-B5572	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5573	D-B5573		D-B5573	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5574	D-B5574		D-B5574	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5575	D-B5575		D-B5575	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5576	D-B5576		D-B5576	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5577	D-B5577		D-B5577	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5578	D-B5578		D-B5578	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5579	D-B5579		D-B5579	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5580	D-B5580		D-B5580	-	-	-	LPT1:
37	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5581	D-B5581		D-B5581	-	-	-	LPT1:
38	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5582	D-B5582		D-B5582	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5583	D-B5583		D-B5583	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5584	D-B5584		D-B5584	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5585	D-B5585		D-B5585	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5586	D-B5586		D-B5586	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5587	D-B5587		D-B5587	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5588	D-B5588		D-B5588	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5589	D-B5589		D-B5589	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5590	D-B5590		D-B5590	-	-	-	LPT1:
47	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5591	D-B5591		D-B5591	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5592	D-B5592		D-B5592	-	-	-	LPT1:
49	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5593	D-B5593		D-B5593	-	-	-	LPT1:

51	-	1	1	GEN4C	GEN4B	122190A	INDA	D-B5594	D-B5594	D-B5594	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5595	D-B5595	D-B5595	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5596	D-B5596	D-B5596	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5597	D-B5597	D-B5597	-	-	-	LPT1:
55	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5598	D-B5598	D-B5598	-	-	-	LPT1:
56	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5599	D-B5599	D-B5599	-	-	-	LPT1:
57	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5600	D-B5600	D-B5600	-	-	-	LPT1:
58	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5601	D-B5601	D-B5601	-	-	-	LPT1:
59	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5602	D-B5602	D-B5602	-	-	-	LPT1:
60	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5603	D-B5603	D-B5603	-	-	-	LPT1:
61	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5604	D-B5604	D-B5604	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5605	D-B5605	D-B5605	-	-	-	LPT1:
63	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5606	D-B5606	D-B5606	-	-	-	LPT1:
64	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5607	D-B5607	D-B5607	-	-	-	LPT1:
65	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5608	D-B5608	D-B5608	-	-	-	LPT1:
66	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5609	D-B5609	D-B5609	-	-	-	LPT1:
67	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5610	D-B5610	D-B5610	-	-	-	LPT1:
68	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5611	D-B5611	D-B5611	-	-	-	LPT1:
69	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5612	D-B5612	D-B5612	-	-	-	LPT1:
70	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5613	D-B5613	D-B5613	-	-	-	LPT1:
71	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5614	D-B5614	D-B5614	-	-	-	LPT1:
72	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5615	D-B5615	D-B5615	-	-	-	LPT1:
73	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5616	D-B5616	D-B5616	-	-	-	LPT1:
74	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5617	D-B5617	D-B5617	-	-	-	LPT1:
75	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5618	D-B5618	D-B5618	-	-	-	LPT1:
76	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5619	D-B5619	D-B5619	-	-	-	LPT1:
77	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5620	D-B5620	D-B5620	-	-	-	LPT1:
78	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5621	D-B5621	D-B5621	-	-	-	LPT1:
79	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5622	D-B5622	D-B5622	-	-	-	LPT1:
80	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5623	D-B5623	D-B5623	-	-	-	LPT1:
81	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5624	D-B5624	D-B5624	-	-	-	LPT1:
82	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5625	D-B5625	D-B5625	-	-	-	LPT1:
83	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5626	D-B5626	D-B5626	-	-	-	LPT1:
84	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5627	D-B5627	D-B5627	-	-	-	LPT1:
85	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5628	D-B5628	D-B5628	-	-	-	LPT1:
86	-	1	1	GEN4C	GEN4B	122190A	EVAL							

137	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5681	D-B5681	D-B5681	-	-	LPT1:
138	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5682	D-B5682	D-B5682	-	-	LPT1:
139	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5683	D-B5683	D-B5683	-	-	LPT1:
140	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5684	D-B5684	D-B5684	-	-	LPT1:
141	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5685	D-B5685	D-B5685	-	-	LPT1:
142	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5686	D-B5686	D-B5686	-	-	LPT1:
143	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5687	D-B5687	D-B5687	-	-	LPT1:
144	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5688	D-B5688	D-B5688	-	-	LPT1:
145	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5689	D-B5689	D-B5689	-	-	LPT1:
146	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5690	D-B5690	D-B5690	-	-	LPT1:
147	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5691	D-B5691	D-B5691	-	-	LPT1:
148	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5692	D-B5692	D-B5692	-	-	LPT1:
149	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5693	D-B5693	D-B5693	-	-	LPT1:
150	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5694	D-B5694	D-B5694	-	-	LPT1:
151	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5695	D-B5695	D-B5695	-	-	LPT1:
152	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5696	D-B5696	D-B5696	-	-	LPT1:
153	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5697	D-B5697	D-B5697	-	-	LPT1:
154	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5698	D-B5698	D-B5698	-	-	LPT1:
155	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5699	D-B5699	D-B5699	-	-	LPT1:
156	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5700	D-B5700	D-B5700	-	-	LPT1:
157	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5701	D-B5701	D-B5701	-	-	LPT1:
158	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5702	D-B5702	D-B5702	-	-	LPT1:
159	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5703	D-B5703	D-B5703	-	-	LPT1:
160	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5704	D-B5704	D-B5704	-	-	LPT1:
161	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5705	D-B5705	D-B5705	-	-	LPT1:
162	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5706	D-B5706	D-B5706	-	-	LPT1:
163	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5707	D-B5707	D-B5707	-	-	LPT1:
164	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5708	D-B5708	D-B5708	-	-	LPT1:
165	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5709	D-B5709	D-B5709	-	-	LPT1:
166	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5710	D-B5710	D-B5710	-	-	LPT1:
167	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5711	D-B5711	D-B5711	-	-	LPT1:
168	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5712	D-B5712	D-B5712	-	-	LPT1:
169	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5713	D-B5713	D-B5713	-	-	LPT1:
170	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5714	D-B5714	D-B5714	-	-	LPT1:
171	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5715	D-B5715	D-B5715	-	-	LPT1:
172	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5716	D-B5716	D-B5716	-	-	LPT1:
173	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5717	D-B5717	D-B5717	-	-	LPT1:
174	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5718	D-B5718	D-B5718	-	-	LPT1:
175	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B5719	D-B5719	D-B5719	-	-	LPT1:
176	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B5720	D-B5720	D-B5720	-	-	LPT1:
177	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B5721	D-B5721	D-B5721	-	-	LPT1:

REQUESTED BY: YUSHINSC

METHOD: QJ Pesticides (8081A)

<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>
1A,B CLP1	DHX40-1-04	___	260759	399411	A-36-QJ	COH160154	001		SOLID	0	3 1
1A,B CLP1	DHX47-1-04	___	260760	399411	A-36-QJ	COH160154	002		SOLID	0	3 1
1A,B CLP1	DHX4A-1-04	___	260761	399411	A-36-QJ	COH160154	003		SOLID	0	3 1
1E CLP1	DJ0QL-1-04	___	260762	399411	A-36-QJ	COH170113	001		SOLID	0	3 1

RELINQUISHED BY

P. Yushinski
P. Yushinski

RECEIVED BY

P. Yushinski
P. Yushinski

DATE/TIME

8-21-00 1535
8-21-00 1930

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

669 564

HERBICIDE DATA

**HERBICIDE
QC SUMMARY**

669 566

SW846 8151A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0H160154

	CLIENT ID.	SRG01	TOT OUT
	=====	=====	=====
01	DF/S1/0228/SDC/028	46	00
02	DF/S1/0228/SDC/026	52	00
03	DF/S1/0228/SDC/027	45	00
04	METHOD BLK. DJ6M3101	82	00
05	LCS DJ6M3102	93	00
06	DF/S1/0228/SDC/026 D	48	00
07	DF/S1/0228/SDC/026 S	52	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

Lab Code: QESPIT

SDG No:

Lot #: C0H210000

WO #: DJ6M3102

BATCH: 0234431

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

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

669 568 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: DF/S1/0228/SDC/026

Lot #: COH160154

WO #: DHX40117

BATCH: 0234431

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

NOTES(S) :

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

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/S1/0228/SDC/026

Lot #: C0H160154

WO #: DHX40118

BATCH: 0234431

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

NOTES (S) :

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

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

COMMENTS:

669 570

SW846 8151A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DJ6M3101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: A-A50304.

Lot Number: C0H160154

Matrix: SOLID

Extraction Method:

Date Extracted: 08/21/00

Date Analyzed(1): 08/22/00

Date Analyzed(2): N/A

Time Analyzed(1): 19:15

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

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

GC Column(2): N/A

ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/S1/0228/SDC/028	DHX4A105	08/22/00	N/A
02	DF/S1/0228/SDC/026	DHX40105	08/22/00	N/A
03	DF/S1/0228/SDC/026	DHX40117 S	08/22/00	N/A
04	DF/S1/0228/SDC/026	DHX40118 D	08/22/00	N/A
05	DF/S1/0228/SDC/027	DHX47105	08/22/00	N/A
06	CHECK SAMPLE	DJ6M3102 C	08/22/00	N/A
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

**HERBICIDE
SAMPLE DATA**

669 572

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0H160154 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX40105

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 20

QC Batch: 0234431

Client Sample Id: DF/S1/0228/SDC/026

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

FORM I

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50297.D
 Report Date: 22-Aug-2000 16:29

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50297.D
 Lab Smp Id: DHX40105 Client Smp ID: DF/S1/0228/SDC/026
 Inj Date : 22-AUG-2000 15:32
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DHX40105,5100.b
 Misc Info : 16015401
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
 Meth Date : 22-Aug-2000 13:18 colussyj Quant Type: ESTD
 Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC085

Concentration Formula: $\text{Amt} * \text{DF} * 20 * \text{Vt} / \text{Vo} / \text{Vi}$

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 (ug/L)
1 DALAPON				Compound Not Detected.		
\$ 2 DCAA	10.578	10.572	0.006	8336896	0.02587	0.05174(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	18.530	18.563	-0.033	496443	0.00271	0.005420(a)

669 574

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50297.D
Report Date: 22-Aug-2000 16:29

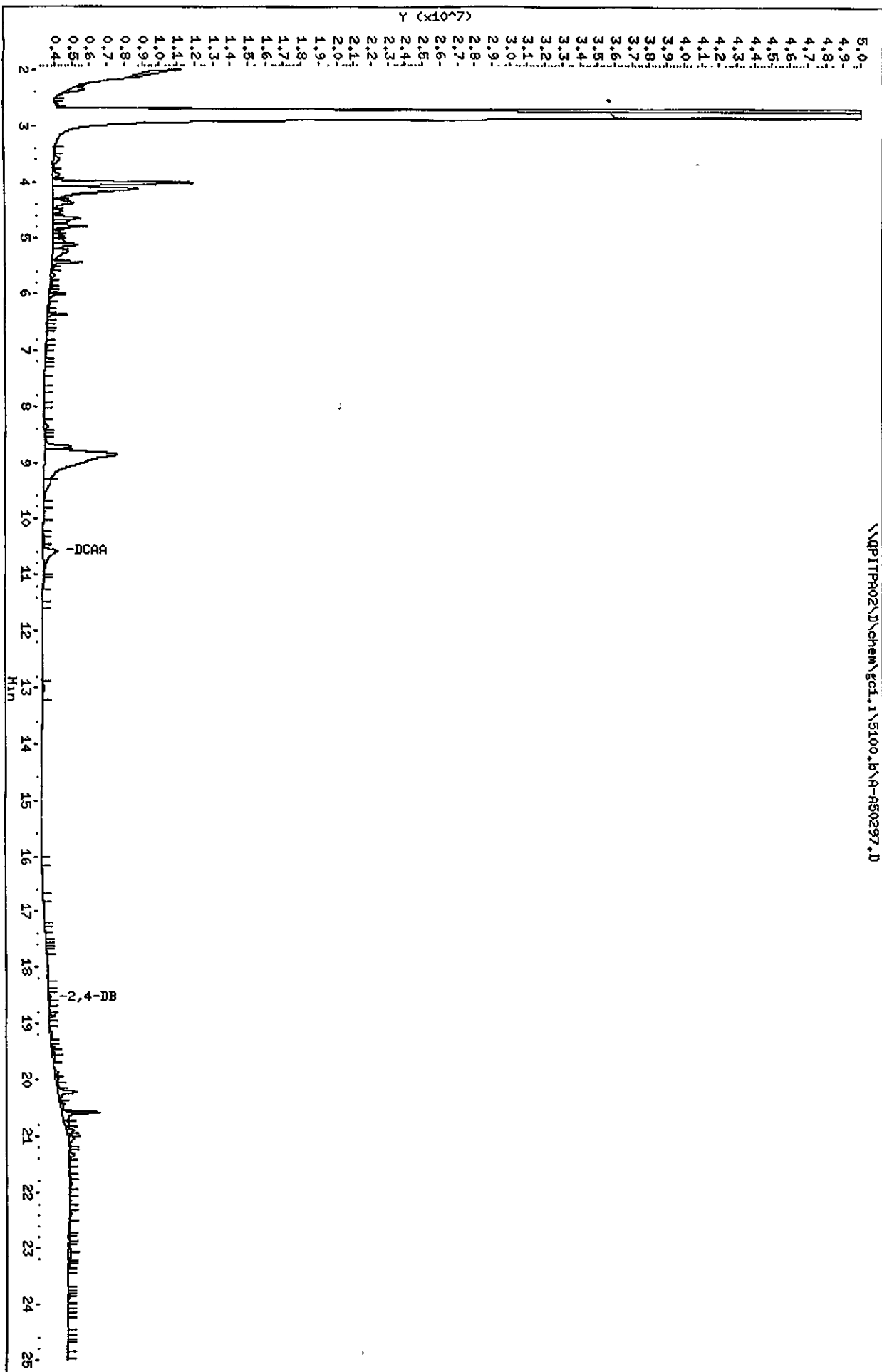
QC Flag Legend

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

669 575

Data File: \\QPITPA02\chem\gc1.1\5100.b\A-A50297.D
Date: 22-AUG-2000 15:32
Client ID: DF/SL/0228/SDC/026
Sample Info: DMX40105, 5100.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc1.1
Operator: 01797
Column diameter: 0.53



669 576

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX47105

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 21

QC Batch: 0234431

Client Sample Id: DF/S1/0228/SDC/027

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-A50298.D
 Lab Smp Id: DHX47105 Client Smp ID: DF/S1/0228/SDC/027
 Inj Date : 22-AUG-2000 16:09
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DHX47105,5100.b
 Misc Info : 16015402
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
 Meth Date : 22-Aug-2000 13:18 colussyj Quant Type: ESTD
 Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
 Als bottle: 11
 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 (ug/L)
1 DALAPON				Compound Not Detected.		
\$ 2 DCAA	10.586	10.572	0.014	7283415	0.02260	0.04520 (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	18.532	18.563	-0.031	427785	0.00234	0.004671 (a)

669 578

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50298.D
Report Date: 22-Aug-2000 16:40

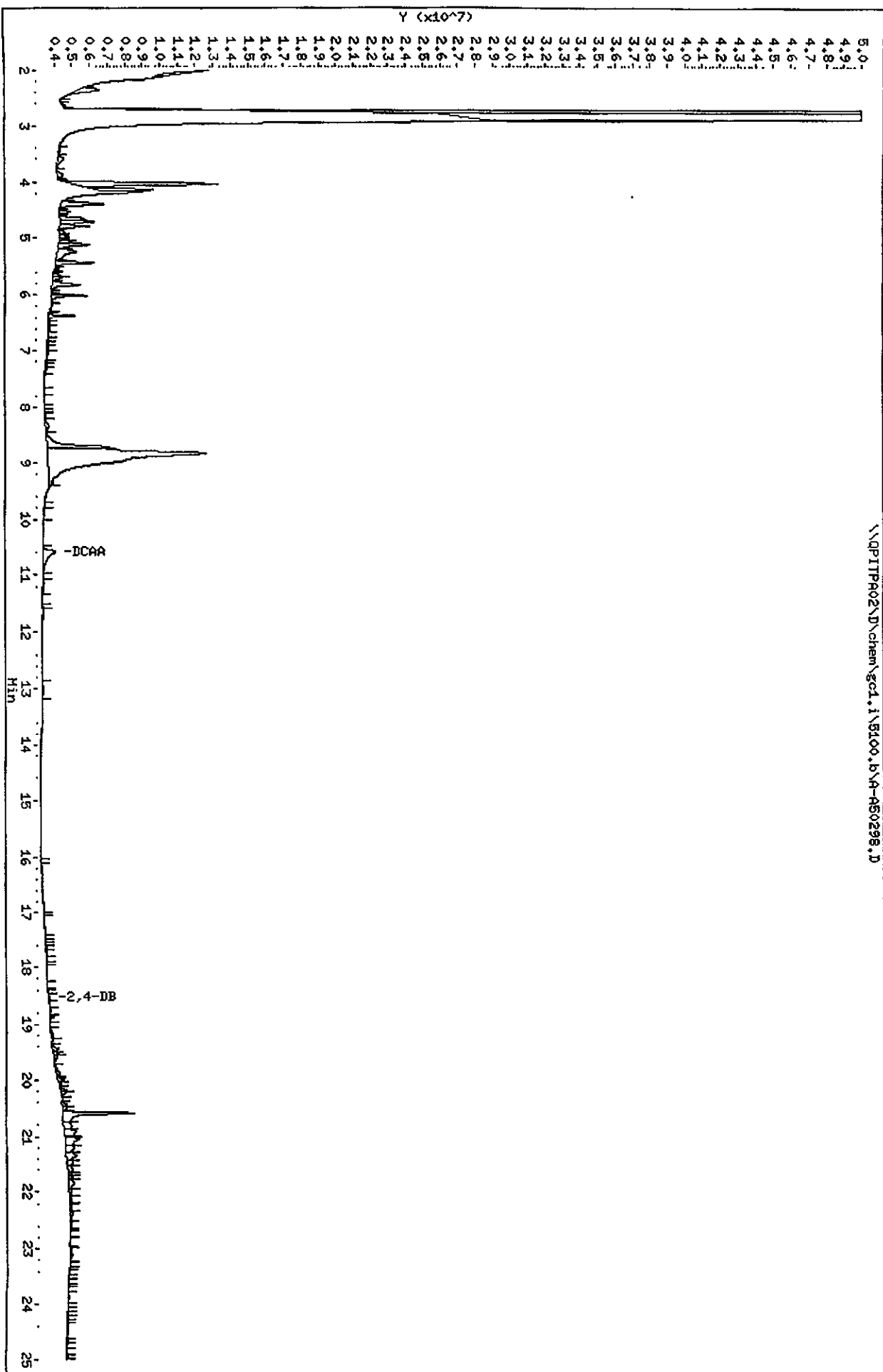
QC Flag Legend

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

19
5
6
6

Data File: \\QPITPA02\chem\gc1.i\5100.b\A-A50298.D
 Date : 22-AUG-2000 16:09
 Client ID: DF/S1/0228/SDC/027
 Sample Info: DHK47105,5100.b
 Volume Injected (uL): 1.0
 Column phase: DB608

Instrument: gc1.1
 Operator: 01797
 Column diameter: 0.53



669-580

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: COH160154 003

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DHX4A105

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: 15

QC Batch: 0234431

Client Sample Id: DF/S1/0228/SDC/028

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

FORM I

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50299.D
 Report Date: 23-Aug-2000 08:15

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50299.D
 Lab Smp Id: DHX4A105 Client Smp ID: DF/S1/0228/SDC/028
 Inj Date : 22-AUG-2000 16:51
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DHX4A105,5100.b
 Misc Info : 16015403
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
 Meth Date : 23-Aug-2000 08:11 colussyj Quant Type: ESTD
 Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
 Als bottle: 12
 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 (ug/L)
1 DALAPON				Compound Not Detected.		
\$ 2 DCAA	10.586	10.572	0.014	7394139	0.02294	0.04589(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	18.528	18.563	-0.035	440513	0.00240	0.004810(a)

669 582

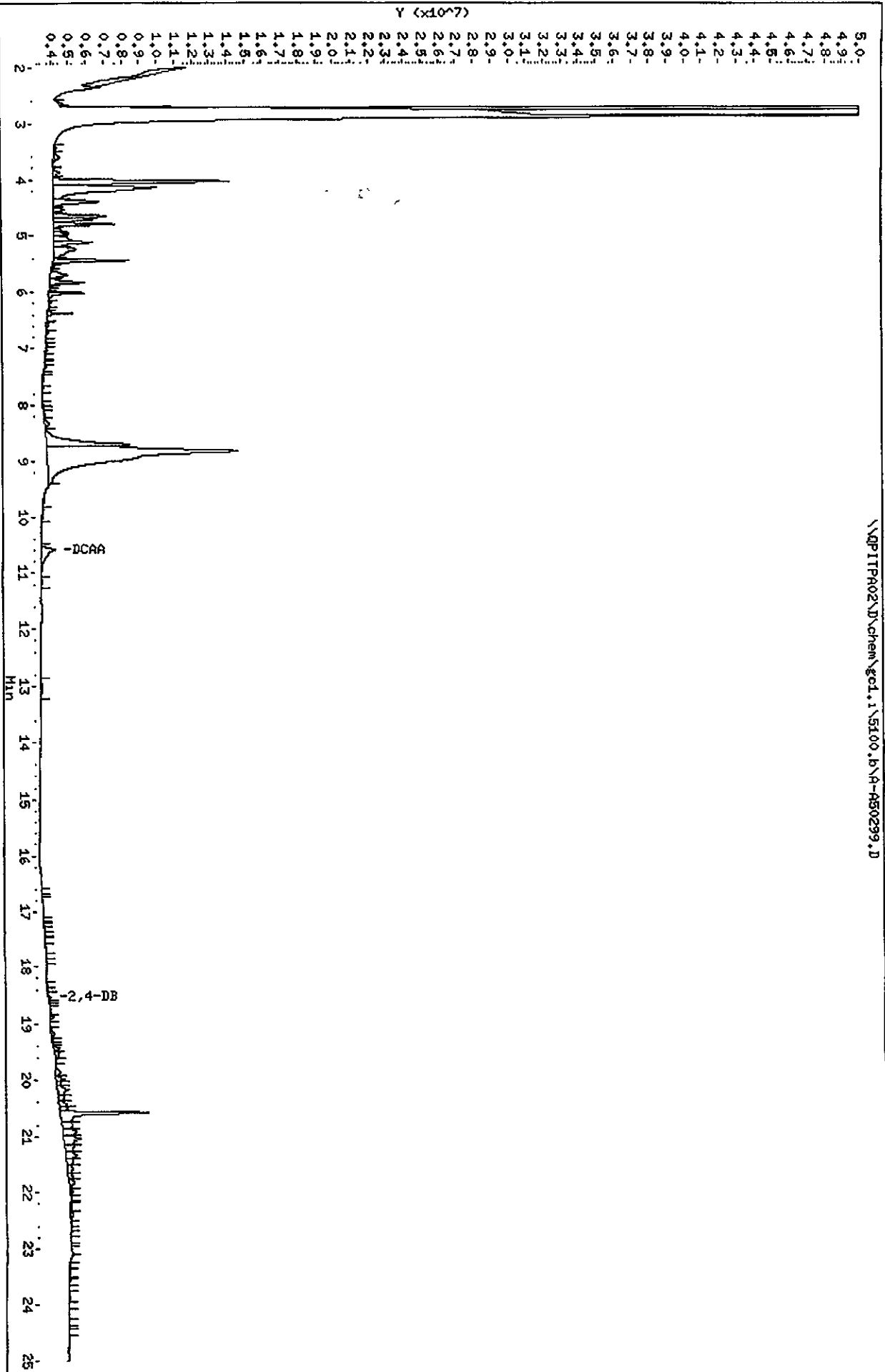
Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50299.D
Report Date: 23-Aug-2000 08:15

QC Flag Legend

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

Data File: \\QPIITPA02\N\chem\gc1.1\5100.b\A-A50239.D
Date: 22-AUG-2000 16:51
Client ID: DF/S1/0228/SDC/028
Sample Info: DKK44105, 5100.b
Volume Injected (uL): 1.0
Column Phase: DB608

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



669 584

**HERBICIDE
CALIBRATION DATA**

Report Date : 22-Aug-2000 13:17

669
68801A
D0608

669 585

STL - Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Quant Method : ESTD Target Version : 4.04
Last Update : 22-Aug-2000 13:16 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	3.732	3.662-3.802	8.93e+007
\$ 2 DCAA	10.572	10.502-10.642	3.22e+008
3 MCPP	11.013	10.943-11.083	5.01e+005
4 DICAMBA	11.182	11.112-11.252	2.30e+008
5 MCPA	11.971	11.901-12.041	5.64e+005
6 DICHLOROPROP	12.801	12.731-12.871	4.93e+007
7 2,4-D	14.306	14.236-14.376	4.45e+007
8 PENTACHLOROPHENOL	15.528	15.458-15.598	5.57e+008
9 2,4,5-TP (SILVEX)	16.763	16.693-16.833	1.84e+009
10 2,4,5-T	17.886	17.816-17.956	1.34e+009
11 DINOSEB	18.065	17.995-18.135	1.41e+009
12 2,4-DB	18.563	18.493-18.633	1.83e+008

669 586

Report Date : 10-Aug-2000 16:30

62
HP68901A
DB608

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 10-AUG-2000 10:19
 End Cal Date : 10-AUG-2000 12:15
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
 Cal Date : 10-Aug-2000 16:28 eppingerd
 Curve Type : Average

Calibration File Names:

Level 1: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50103.D
 Level 2: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50104.D
 Level 3: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50105.D
 Level 4: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50106.D
 Level 5: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50107.D

	0.00500	0.01000	0.02500	0.05000	0.10000		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
1 DALAPON	97424455	93072727	91002779	83698724	81179426	89275622	7.524
3 MCPP	681265	630930	522456	383315	284716	500536	33.201<-
4 DICAMBA	220707170	230137371	243928918	229528449	226529376	230166257	3.715
5 MCPA	776508	695450	582989	431197	334166	564062	32.359<-
6 DICHLOROPROP	49158632	51162712	52161085	47671876	46352537	49301369	4.865
7 2,4-D	42628152	44274706	47312844	44554365	43968632	44547740	3.846
8 PENTACHLOROPHENOL	502838722	525058647	576543045	573417998	607178331	557007349	7.576
9 2,4,5-TP (SILVEX)	1.901e+09	1.877e+09	1.922e+09	1.757e+09	1.754e+09	1.842e+09	4.377
10 2,4,5-T	1.296e+09	1.358e+09	1.401e+09	1.321e+09	1.335e+09	1.342e+09	2.956
11 DINOSEB	1.484e+09	1.464e+09	1.467e+09	1.320e+09	1.316e+09	1.410e+09	6.015
12 2,4-DB	217813791	184847156	189191680	163999592	160050098	183180464	12.631
\$ 2 DCAA	355656009	348626753	335160787	296588071	275373868	322281098	10.787

Avg 10.87%
RSD

Data File: \\QPITPA02\D\chem\gcl.i\5100.b\A-A50292.D
Report Date: 22-Aug-2000 13:13

12
67901A
J5608

669 587

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl.i Injection Date: 22-AUG-2000 12:35
Lab File ID: A-A50292.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\gcl.i\5100.b\LONGH.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
1 DALAPON	89275622	95364966	0.010	6.8	15.0
2 DCAA	322281098	324583420	0.010	0.7	15.0
3 MCPP	500536	511776	0.010	2.2	15.0
4 DICAMBA	230166257	229502047	0.010	-0.3	15.0
5 MCPA	564062	567266	0.010	0.6	15.0
6 DICHLOROPROP	49301369	48868561	0.010	-0.9	15.0
7 2,4-D	44547740	42517767	0.010	-4.6	15.0
8 PENTACHLOROPHENOL	557007349	553029135	0.010	-0.7	15.0
9 2,4,5-TP(SILVEX)	1.842e+09	1.800e+09	0.010	-2.3	15.0
10 2,4,5-T	1.342e+09	1.253e+09	0.010	-6.6	15.0
11 DINOSEB	1.410e+09	1.634e+09	0.010	15.9	15.0
12 2,4-DB	183180464	161992012	0.010	-11.6	15.0

4.43%

669 588

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50306.D

Report Date: 23-Aug-2000 08:15

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 22-AUG-2000 20:12
 Lab File ID: A-A50306.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	RRP	RFO	MIN	MAX
=====	=====	=====	=====	=====
1 DALAPON	89275622	96091936	0.010	7.6 15.0
2 DCAA	322281098	328516134	0.010	1.9 15.0
3 MCPP	500536	510693	0.010	2.0 15.0
4 DICAMBA	230166257	230197435	0.010	0.0 15.0
5 MCPA	564062	559196	0.010	-0.9 15.0
6 DICHLOROPROP	49301369	48100708	0.010	-2.4 15.0
7 2,4-D	44547740	41521410	0.010	-6.8 15.0
8 PENTACHLOROPHENOL	557007349	547669267	0.010	-1.7 15.0
9 2,4,5-TP(SILVEX)	1.842e+09	1.811e+09	0.010	-1.7 15.0
10 2,4,5-T	1.342e+09	1.203e+09	0.010	-10.4 15.0
11 DINOSEB	1.410e+09	1.556e+09	0.010	10.3 15.0
12 2,4-DB	183180464	152395195	0.010	-16.8 15.0 <-

5.2196

8D
PESTICIDE ANALYTICAL SEQUENCE

669 589

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: C0H160154
GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 08/10/00 08/10/00
Instrument ID: GC1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 10.57					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
=====	=====	=====	=====	=====	=====
01	LHERB	08/10/00	1019	10.58	
02	MLHERB	08/10/00	1048	10.58	
03	MHERB	08/10/00	1117	10.58	
04	MHHERB	08/10/00	1146	10.57	
05	HHERB	08/10/00	1215	10.57	
06	MHERB	08/22/00	1235	10.57	
07	DF/S1/0228/S DHX40105	08/22/00	1532	10.58	
08	DF/S1/0228/S DHX47105	08/22/00	1609	10.59	
09	DF/S1/0228/S DHX4A105	08/22/00	1651	10.59	
10	DF/S1/0228/S DHX40117	08/22/00	1749	10.57	
11	DF/S1/0228/S DHX40118	08/22/00	1817	10.57	
12	LCS DJ6M3102	08/22/00	1846	10.58	
13	BLK DJ6M3101	08/22/00	1915	10.59	
14	MHERB	08/22/00	2012	10.57	
15					
16					
17					
18					
19					
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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.

669. 590

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50103.D
Report Date: 10-Aug-2000 16:25

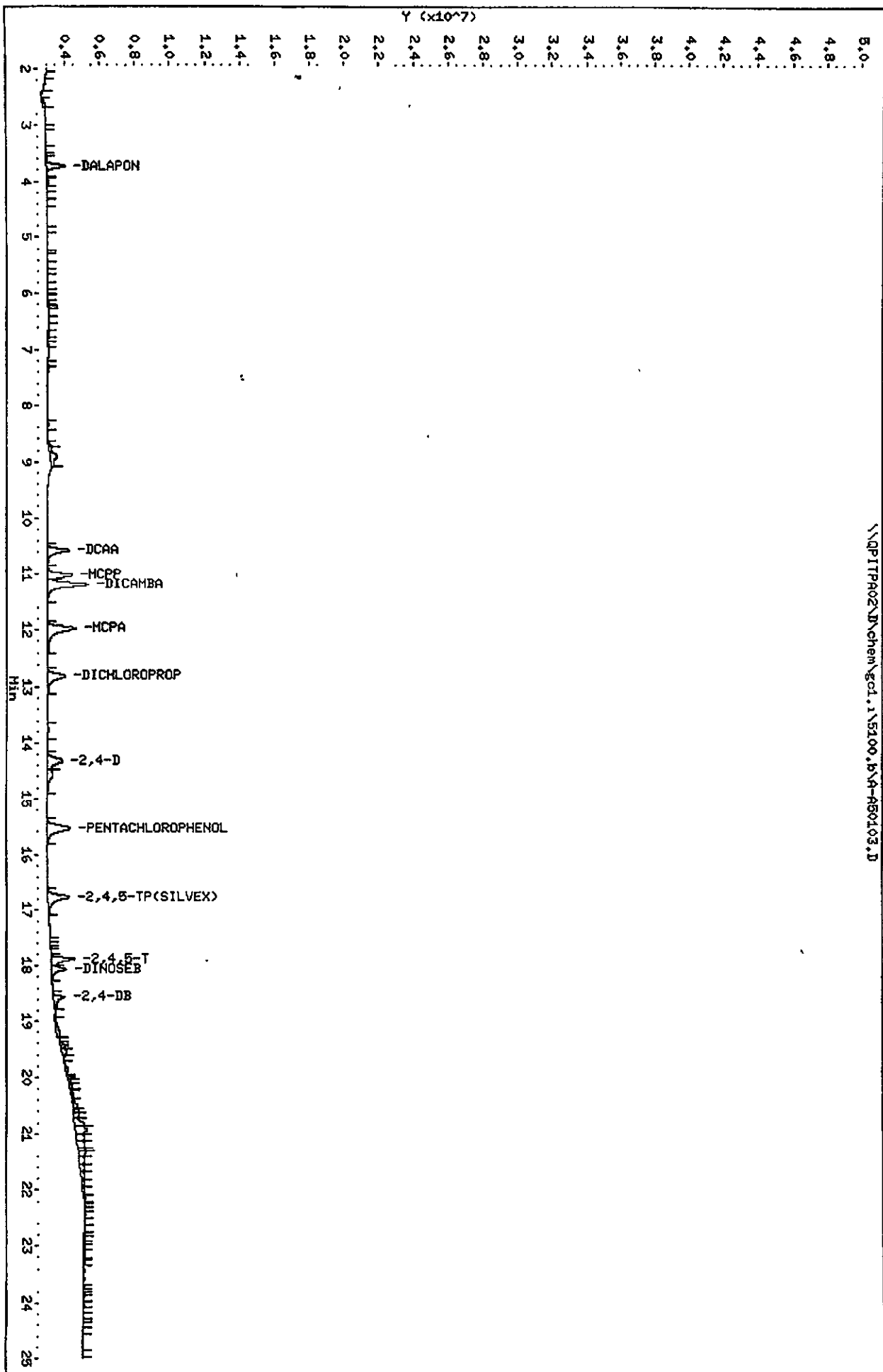
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50103.D
Lab Smp Id: Lherb
Inj Date : 10-AUG-2000 10:19
Operator : 01797
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

Data File: \\NPITPA02\chem\gcd.1\5100.b\A-A50103.D
Date: 10-AUG-2000 10:19
Client ID:
Sample Info: Lherb, 5100.b
Column phase: DB608

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



669 592

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50104.D
Report Date: 10-Aug-2000 16:26

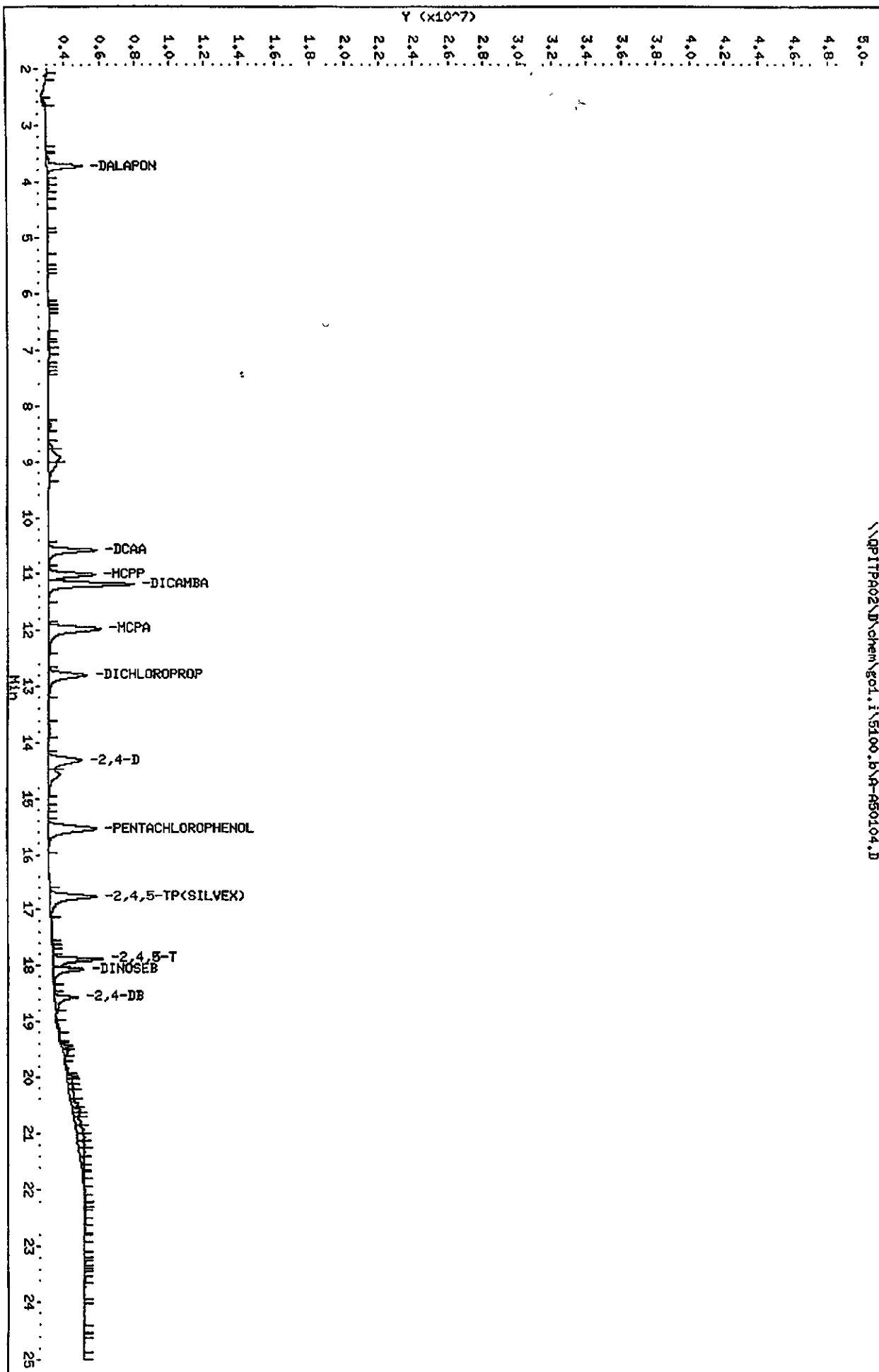
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50104.D
Lab Smp Id: MLherb
Inj Date : 10-AUG-2000 10:48
Operator : 01797
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: \\QPITPA02\Nchem\gc1.i\5100.b\A-850104.D
Date: 10-AUG-2000 10:48
Client ID:
Sample Info: MLherb, 5100.b
Column phase: DB608

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



669 594

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50105.D
 Report Date: 10-Aug-2000 16:26

STL Pittsburgh

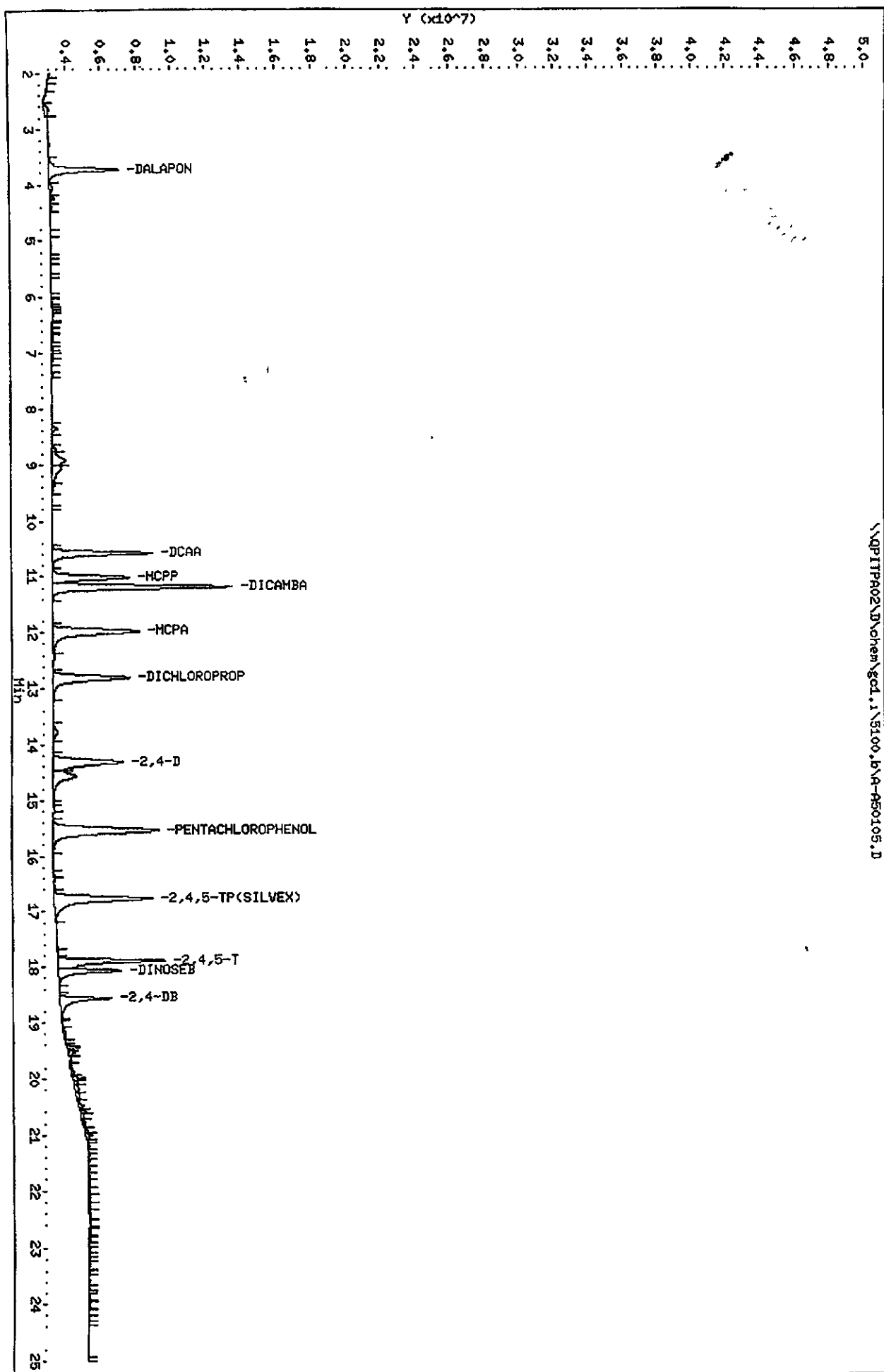
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 Lab Smp Id: Mherb
 Inj Date : 10-AUG-2000 11:17
 Operator : 01797
 Smp Info : Mherb,5100.b
 Misc Info : 190-94-3
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
 Meth Date : 10-Aug-2000 16:26 eppingerd Quant Type: ESTD
 Cal Date : 10-AUG-2000 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
 Inst ID: gc1.i
 Compound Sublist: 1-all.sub

AMOUNTS

Compounds	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 MCPFP	11.018	11.018	0.000	4451329	8.52000	7.279
4 DICAMBA ,	11.188	11.188	0.000	10366979	0.04250	0.04476
5 MCPA	11.977	11.977	0.000	4990385	8.56000	7.285
6 DICHLOROPROP	12.808	12.808	0.000	4423260	0.08480	0.08702
7 2,4-D	14.310	14.310	0.000	4026323	0.08510	0.09000
8 PENTACHLOROPHENOL	15.539	15.539	0.000	6134418	0.01064	0.01147
9 2,4,5-TP(SILVEX)	16.759	16.759	0.000	40562284	0.02110	0.02135
10 2,4,5-T	17.886	17.886	0.000	29562585	0.02110	0.02187
11 DINOSEB	18.065	18.065	0.000	18630907	0.01270	0.01266
12 2,4-DB	18.563	18.563	0.000	15986697	0.08450	0.08103

Data File: \\QP17PA02\chem\gc1.1\5100.b\A-050105.D
Date: 10-AUG-2000 11:17
Client ID:
Sample Info: Herb, 5100.b
Column phase: DB608

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



669 596

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50106.D
Report Date: 10-Aug-2000 16:27

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50106.D
Lab Smp Id: MHherb
Inj Date : 10-AUG-2000 11:46
Operator : 01797
Smp Info : MHherb,5100.b
Misc Info : 190-94-4
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 10-Aug-2000 16:27 eppingerd Quant Type: ESTD
Cal Date : 10-AUG-2000 11:46 Cal File: A-A50106.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC086

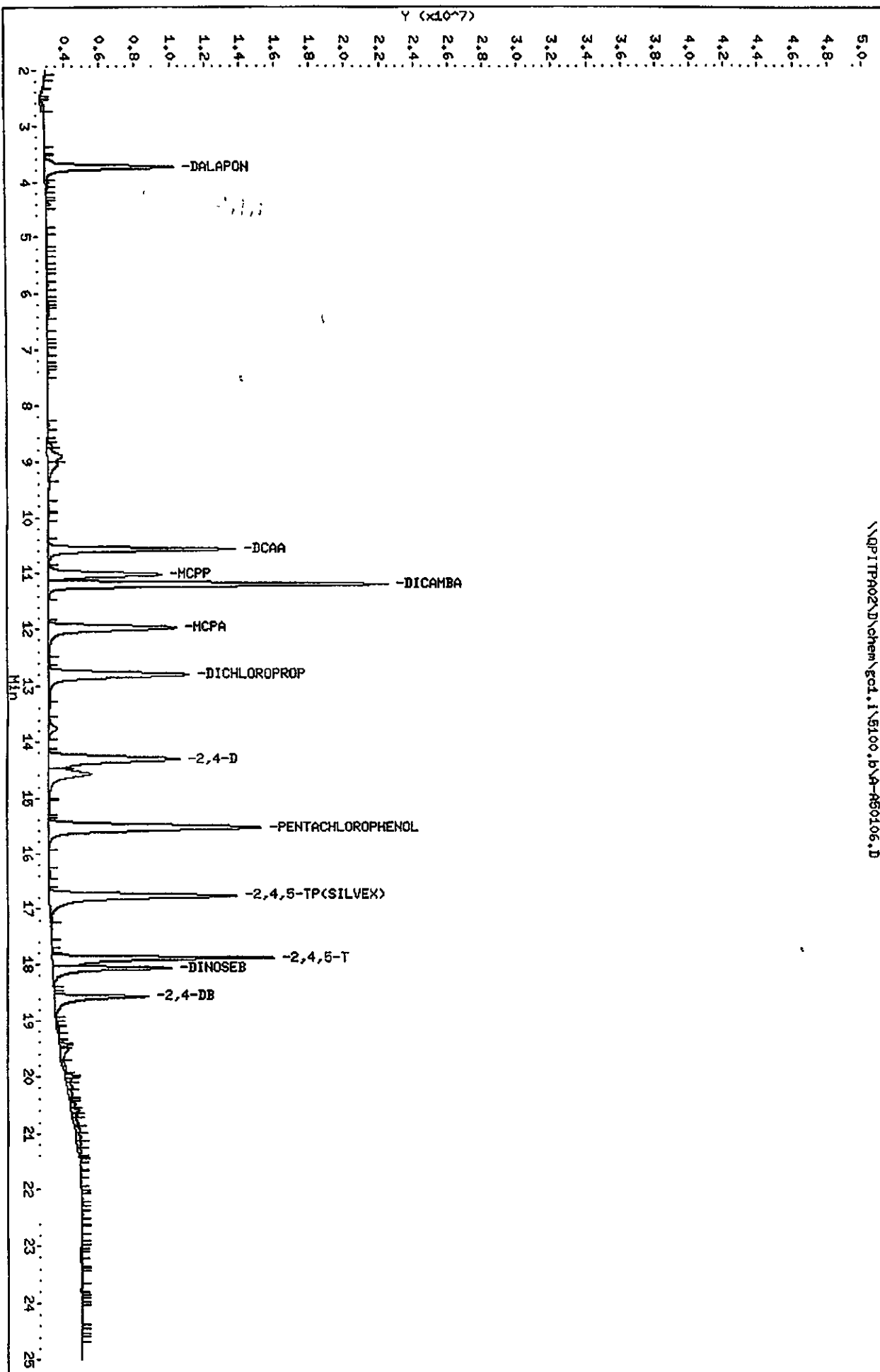
AMOUNTS

Compounds	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

669 597

Data File: \\QPI1P02\\chem\\col.1\\5100.b\\A-850106.D
Date: 10-AUG-2000 11:46
Client ID:
Sample Info: Hthrb,5100.b
Column phase: DB608

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



669 598

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50107.D
 Report Date: 10-Aug-2000 16:28

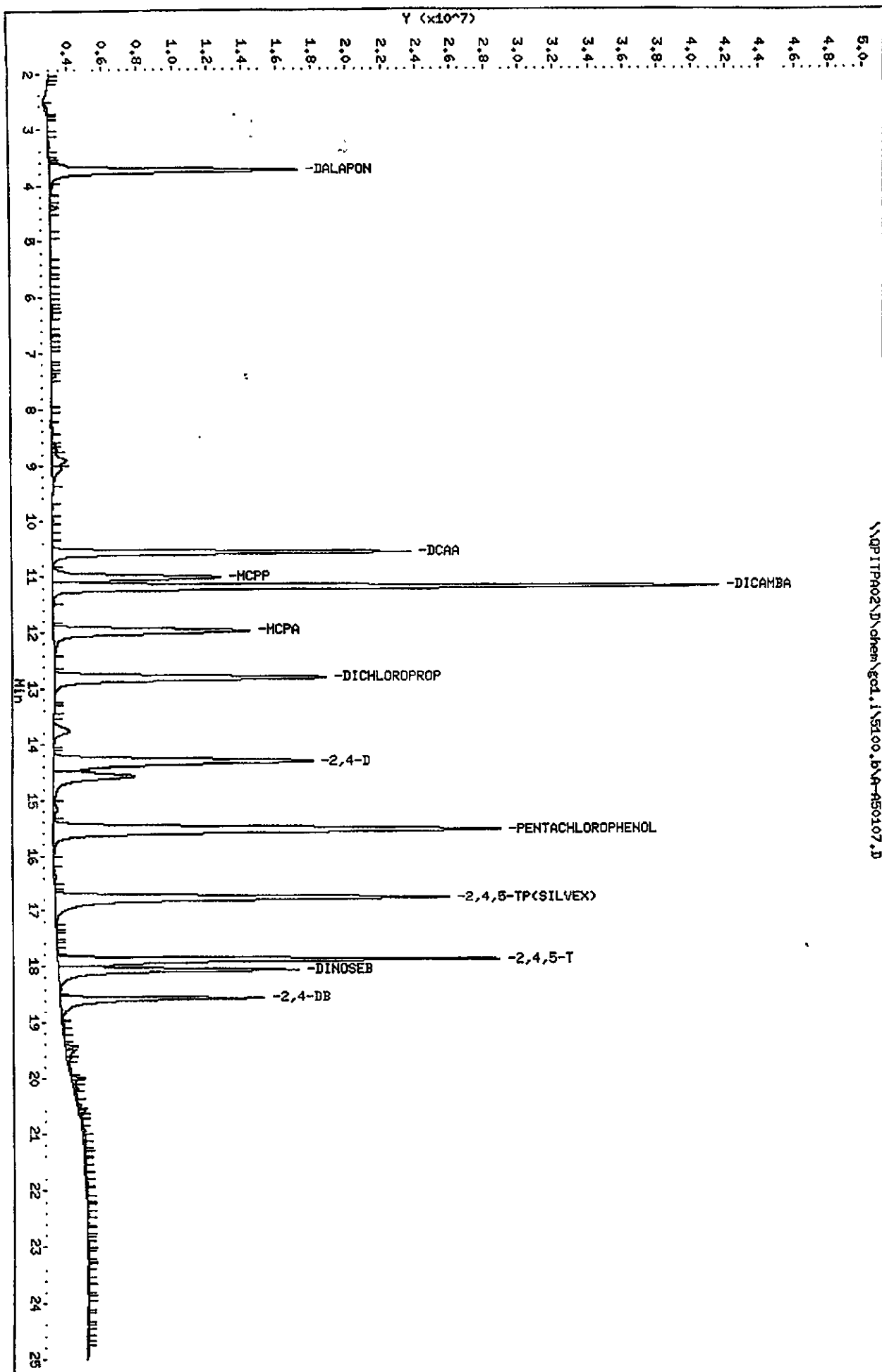
STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50107.D
 Lab Smp Id: Hherb
 Inj Date : 10-AUG-2000 12:15
 Operator : 01797
 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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	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

Data File: \\NPITPA02\chem\gcl.1\5100.b\A-850107.D
Date: 10-AUG-2000 12:15
Client ID:
Sample Info: Herb, 5100.b
Column phase: DB608

Instrument: gcl.1
Operator: 01797
Column diameter: 0.63



669 600

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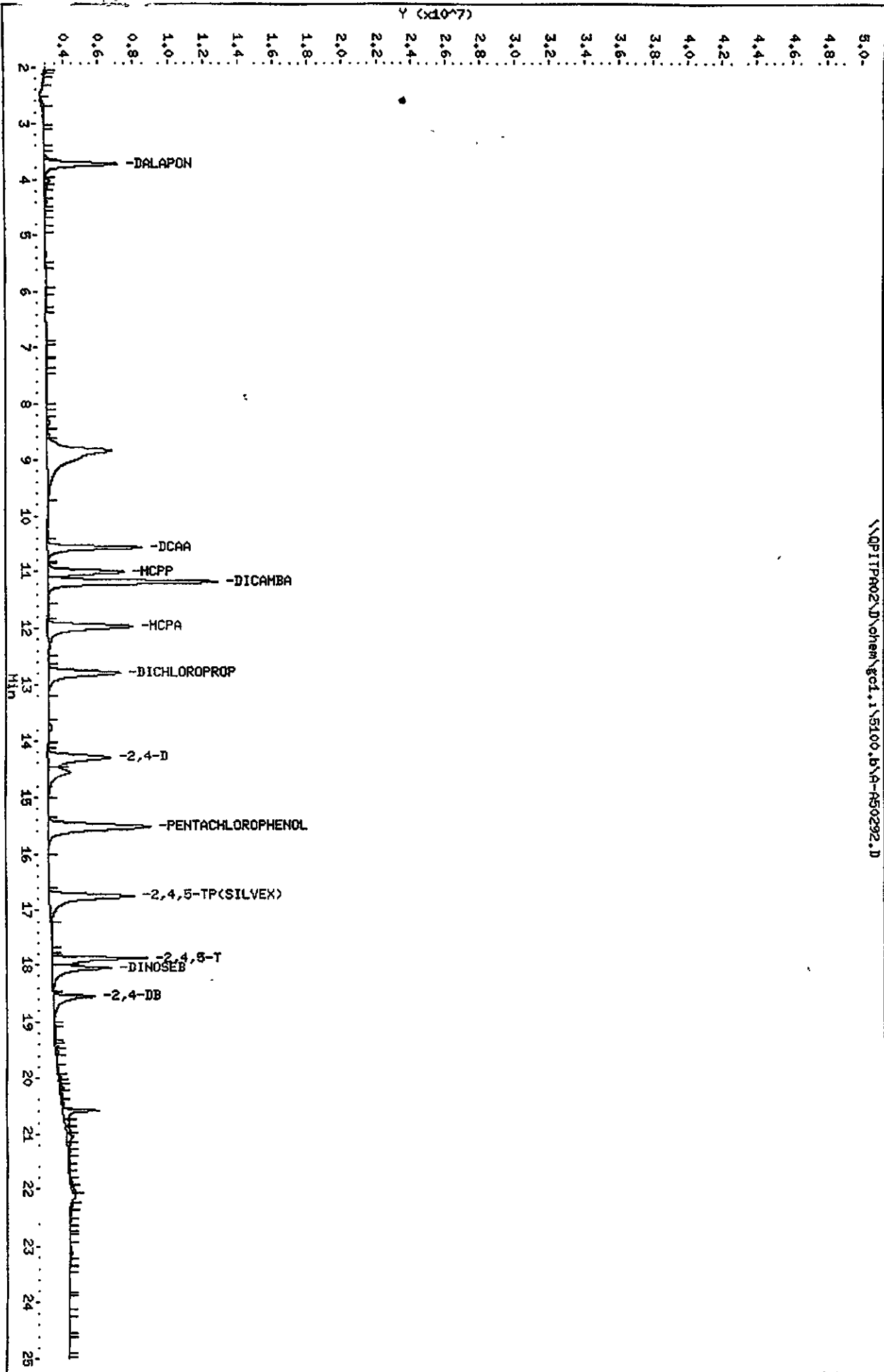
Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50292.D
Lab Smp Id: MHERB
Inj Date : 22-AUG-2000 12:35
Operator : 01797
Smp Info : MHERB,5100.b
Misc Info : 190-94-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 22-Aug-2000 13:18 colussyj
Cal Date : 10-AUG-2000 12:15
Als bottle: 5
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	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	3.731	3.732	-0.001	4186522	0.04390	0.04689
\$ 2 DCAA	10.571	10.572	-0.001	27622049	0.08510	0.08571
3 MCPP	11.009	11.013	-0.004	4360335	8.52000	8.711
4 DICAMBA	11.183	11.182	0.001	9753837	0.04250	0.04238
5 MCPA	11.968	11.970	-0.002	4855796	8.56000	8.609
6 DICHLOROPROP	12.799	12.801	-0.002	4144054	0.08480	0.08406
7 2,4-D	14.306	14.306	0.000	3618262	0.08510	0.08122
8 PENTACHLOROPHENOL	15.525	15.528	-0.003	5884230	0.01064	0.01056
9 2,4,5-TP(SILVEX)	16.757	16.763	-0.006	37980025	0.02110	0.02062
10 2,4,5-T	17.886	17.886	0.000	26440635	0.02110	0.01970
11 DINOSEB	18.065	18.064	0.001	20749502	0.01270	0.01471
12 2,4-DB	18.561	18.563	-0.002	13688325	0.08450	0.07472

Data File: \NPI1P002\chem\gcl.1\5100.b\A-A50292.D
 Date: 22-AUG-2000 12:35
 Client ID:
 Sample Info: HERB,5100.b
 Column phase: DB608

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



669 602

Data File: \\QPITPA02\D\chem\gc1.i\5100.b\A-A50306.D
Report Date: 23-Aug-2000 08:15

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Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50306.D
 Lab Smp Id: MHERB
 Inj Date : 22-AUG-2000 20:12
 Operator : 01797
 Smp Info : MHERB,5100.b
 Misc Info : 190-94-3
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
 Meth Date : 23-Aug-2000 08:11 colussyj
 Cal Date : 10-AUG-2000 12:15
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

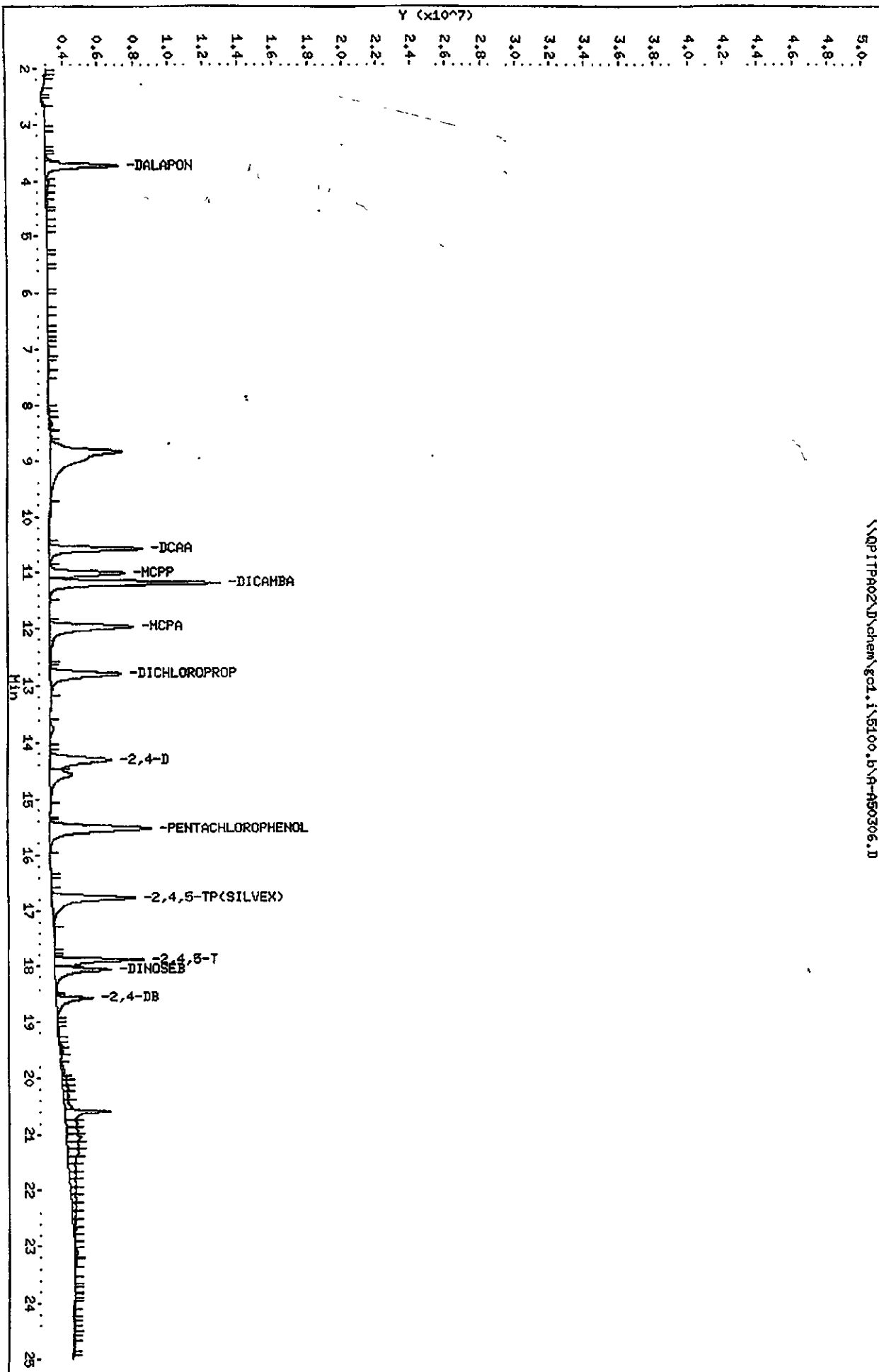
Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A50107.D
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	3.732	3.732	0.000	4218436	0.04390	0.04725
\$ 2 DCAA	10.574	10.572	0.002	27956723	0.08510	0.08675
3 MCPP	11.013	11.013	0.000	4351107	8.52000	8.693
4 DICAMBA	11.187	11.182	0.005	9783391	0.04250	0.04250
5 MCPA	11.969	11.970	-0.001	4786715	8.56000	8.486
6 DICHLOROPROP	12.802	12.801	0.001	4078940	0.08480	0.08273
7 2,4-D	14.309	14.306	0.003	3533472	0.08510	0.07932
8 PENTACHLOROPHENOL	15.534	15.528	0.006	5827201	0.01064	0.01046
9 2,4,5-TP(SILVEX)	16.758	16.763	-0.005	38216405	0.02110	0.02074
10 2,4,5-T	17.885	17.886	-0.001	25375069	0.02110	0.01890
11 DINOSEB	18.064	18.064	0.000	19760344	0.01270	0.01401
12 2,4-DB	18.568	18.563	0.005	12877394	0.08450	0.07030

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Data File: \\NPITPA02\chem\col.1\B100.b\A-A50306.D
Date: 22-AUG-2000 20:12
Client ID:
Sample Info: HERB, B100.b
Column phase: DB608

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



**HERBICIDE
QC DATA**

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID

Lab Sample ID: C0H210000 431

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 08/16/00

Work Order: DJ6M3101

Date Extracted: 08/21/00

Dilution factor: 1

Date Analyzed: 08/22/00

Moisture %: NA

QC Batch: 0234431

Client Sample Id: INTRA-LAB BLANK

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

FORM I

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\5100.b\A-A50304.D
Lab Smp Id: DJ6M3101 Client Smp ID: BLK
Inj Date : 22-AUG-2000 19:15
Operator : 01797 Inst ID: gc1.i
Smp Info : DJ6M3101,5100.b
Misc Info : 160154BLK
Comment :
Method : \\QPITPA02\D\chem\gc1.i\5100.b\LONGH.m
Meth Date : 23-Aug-2000 08:11 colussyj Quant Type: ESTD
Cal Date : 10-AUG-2000 12:15 Cal File: A-A50107.D
Als bottle: 17 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC085

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON				Compound Not Detected.		
\$ 2 DCAA	10.585	10.572	0.013	13270866	0.04118	0.08236(aR)
3 MCPP				Compound Not Detected.		
4 DICAMBA				Compound Not Detected.		
5 MCPA				Compound Not Detected.		
6 DICHLOROPROP				Compound Not Detected.		
7 2,4-D				Compound Not Detected.		
8 PENTACHLOROPHENOL				Compound Not Detected.		
9 2,4,5-TP(SILVEX)				Compound Not Detected.		
10 2,4,5-T				Compound Not Detected.		
11 DINOSEB				Compound Not Detected.		
12 2,4-DB	18.523	18.563	-0.040	516666	0.00282	0.005641(a)

FINAL PAGE

PART I

ADMINISTRATIVE RECORD

PART I

FINAL PAGE