



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 679

679

1



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

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

ANALYTICAL REPORT

PROJECT NO. UXB 7512-060

Dunn Field, Def Depot Memphis

Lot #: C1C210184

Frank Johnson

Memphis Depot

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "Dave Dunlap".

Dave Dunlap
Project Manager

March 30, 2001

CASE NARRATIVE
UXB International Inc.
Dunn Field

LOT # C1C210184

Sample Receiving:

STL Pittsburgh received one sample on March 21, 2001 in good condition and within the proper temperature range.

Volatiles:

Due to the concentration of chloroform detected, the sample was analyzed at a 50X and a 100X dilution. Both sets of data are reported.

Semivolatiles:

Due to the sample matrix and recent matrix related difficulties with other aqueous samples for the Project, sample DF/24-B/1079/IDW/006 was analyzed at a 10X dilution. The sample had several surrogate recoveries outside of the control limits, most likely due to the dilution of the surrogates in combination with the sample matrix. This sample also had the sixth internal standard area counts outside of the control limits (-50% to +100% of the internal standard area counts of the daily calibration standard). The sixth internal standard was not detected at all.

The results of this sample were discussed with the client. Based on knowledge of the matrix (clorox based rinse water) similarities to recent analyses of other samples for the Project, it was decided reanalysis would not provide improved data. Therefore, the original results are reported.

The relative percent difference between the laboratory control sample and the laboratory control sample duplicate was outside of the control limits for 4-nitrophenol. The percent recoveries of this compound were within the control limits. This compound was not detected in the sample. All results were reported.

Pesticides:

The recoveries of tetrachloro-m-xylene surrogate were outside of the control limits for sample DF/24-B/1079/IDW/006 on both columns. The recoveries of decachlorobiphenyl surrogate were within the control limits on both columns.

The initial calibration analyzed on the RTX-1701 column on March 23, 2001 had alpha BHC %RSD at 23.2% and delta BHC at 22.7%. The average of the compounds in the calibration mixes was 8.8%, therefore, the average response factors of the individual compounds were used for quantitation.

For the continuing calibration standards analyzed on the RTX-50 column on March 24, 2001 at 06:06 and 06:34, methoxychlor had a %D of 17.9%. This was outside of the +/- 15%D criteria. The average %D of all of the compounds in the continuing calibration

LOT # C1C210184

standards was 5.0%. Methoxychlor was not detected on the RTX-1701 column. All data was reported.

For the continuing calibration standards analyzed on the RTX-1701 column on March 24, 2001 at 16:54 and 17:22, endosulfan sulfate had a %D of 18.8%. This was outside of the +/-15%D criteria. The average %D of all of the compounds in the continuing calibration standards was 4.3%. The reported value for endosulfan sulfate (the lower value from the two columns) was reported from the RTX-1701 column.

PCBs:

The recovery of tetrachloro-m-xylene surrogate was outside of the control limits for sample DF/24-B/1079/IDW/006. The recovery of decachlorobiphenyl surrogate was within the control limits.

Herbicides:

Due to the sample matrix, the sample was analyzed at a 10X dilution. The surrogates, although recoveries are reported on the Form 2, should be considered diluted out of the sample.

Metals:

The sample and its matrix spikes were over the instrument's linear range for sodium and required a dilution.

Several matrix spike and matrix spike duplicate recoveries were below the control limits. All RPDs between the spikes were within the control limits. All associated results are flagged with an "N" qualifier.

For the matrix spike and matrix spike duplicate, sodium recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

The serial dilution percent difference was exceeded the control limits for barium, chromium and magnesium. All associated results are flagged with an "E" qualifier.

General Chemistry:

There were no problems associated with the analyses.

METHODS SUMMARY

C1C210184

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH Aqueous	SW846 9040	SW846 9040
Chlorinated Herbicides by GC	SW846 8151A	SW846 8151A
Cyanide, Total	SW846 9012A	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
Organochlorine Pesticides	SW846 8081A	SW846 3510C
Pensky-Martens Method for Determining Ignitability	SW846 1010	SW846 1010
PCBs by SW-846 8082	SW846 8082	SW846 3510C
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3520C
Sulfide	MCAWW 376.1	MCAWW 376.1
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Volatile Organics by GC/MS	SW846 8260B	SW846 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

679

5

C1C210184

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
DXPK3	001	DF/24-B/1079/IDW/006	03/20/01	08:03

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

Cooler Receipt Form

STL Pittsburgh

679

7

Client: UXB Project 3-21-01 Quote: 34878
Cooler Rec'd & Opened for Temp Check on 3-21-01
Coolers Opened and Unpacked on 3-21-01 By: [Signature]
(Signature)

STL Pittsburgh Lot Number: CIC 210184

	Yes	No
1. Were custody seals on the outside of the cooler? _____	☒	☐
If YES, how many and where? Quantity <u>1</u> Location <u>FRONT</u>		
Were signatures and date correct? _____	☒	☐
2. Were custody papers included inside the cooler? _____	☒	☐
3. Were custody papers properly filled out (ink, signed, match labels)? _____	☒	☐
4. Did you sign the custody papers in the appropriate place? _____	☒	☐
5. Was shippers packing slip attached to this form? _____	☒	☐
6. Were packing materials used? _____	☒	☐
If YES, what type? <u>Bubble BAGS</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

STL Pittsburgh

8

P: Preserved
UP: Unpreserved

[illegible]

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

Comments:

Lot Number*

[illegible]

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

FedEx USA Airbill
Express

FedEx
Tracking
Number

825026176676

1 From 3/4/01

Date 3/4/01

Sender's Name James A Dunkle Phone 901 745-4999

Company UXB International (752-060)

Address 1208 Dunn Ave

City Memphis State TN ZIP 38106

2 Your Internal Billing Reference

3 To Recipient's Name Rusty Vincine Phone 412 820-2091

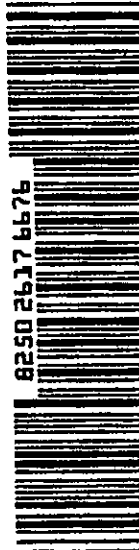
Company Severn Trent

Address 450 William Pitt Way

City Pittsburgh State PA ZIP 15238

10-11001 at FedEx location print FedEx label

10-11001 at FedEx location print FedEx label



825026176676

Form
FD-350

0200

4a Express Package Service

☒ FedEx Priority Overnight ☐ FedEx Standard Overnight

☐ Next business morning ☐ Next business afternoon

☐ FedEx 2Day[®] ☐ FedEx Express[®] ☐ FedEx Express[®] ☐ FedEx Express[®]

☐ Next business day ☐ Second business day ☐ Third business day

4b Express Freight Service

☐ FedEx 1Day Freight[®] ☐ FedEx 2Day Freight[®] ☐ FedEx 3Day Freight[®]

☐ Next business day ☐ Second business day ☐ Third business day

5 Packaging

☐ FedEx Envelope/Letter[®] ☐ FedEx Pak[®] ☒ Other Pkg

☐ Includes FedEx Box, FedEx Tube, and customer prep

6 Special Handling

☐ SATURDAY Delivery ☐ SUNDAY Delivery ☐ HOLD Saturday

☐ Available only for FedEx Priority ☐ Available only for FedEx Priority

☐ Overnight and FedEx 2Day ☐ Overnight and FedEx 2Day

☐ to select ZIP codes ☐ to select ZIP codes

Does this shipment contain dangerous goods? ☐ No ☐ Yes

☐ One box must be checked. ☐ Shipper's Declaration

☐ Dangerous Goods cannot be shipped in FedEx packaging. ☐ Shipper's Declaration

7 Payment Bill to ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Sender's Name ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Account No. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

8 Release Signature ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Signature ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Signature ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Signature ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Signature ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Signature ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

679 10

SBCCOM
Monitoring Branch Laboratory**CLEARANCE REPORT**

20 MARCH 2001

Dunn Field, Memphis Defense Depot

Results for Water Analysis

Analyst: Shawn E. Heinlein

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard
DF/24B/1079/IDW/ 006		ND	ND	ND	ND

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

DDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

TRIP= triplicate

*- samples will be analyzed for TDG

q= approximate results detected

DATA SUMMARY PACKAGE

679

12

GC/MS VOLATILE SUMMARY

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

Matrix: (soil/water) WATER Lab Sample ID: C1C210184 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/21/01

Work Order: DXPK31AA

Date Extracted: 03/22/01

Dilution factor: 50

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	440	J
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	230	J
78-93-3	2-Butanone	1000	U
75-15-0	Carbon disulfide	250	U
56-23-5	Carbon tetrachloride	250	U
108-90-7	Chlorobenzene	250	U
124-48-1	Dibromochloromethane	250	U
75-00-3	Chloroethane	500	U
67-66-3	Chloroform	10000	E
74-87-3	Chloromethane	660	
75-34-3	1,1-Dichloroethane	250	U
107-06-2	1,2-Dichloroethane	250	U
75-35-4	1,1-Dichloroethene	250	U
540-59-0	1,2-Dichloroethene (total)	250	U
78-87-5	1,2-Dichloropropane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
100-41-4	Ethylbenzene	250	U
591-78-6	2-Hexanone	1000	U
75-09-2	Methylene chloride	66	J
108-10-1	4-Methyl-2-pentanone	1000	U
100-42-5	Styrene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
127-18-4	Tetrachloroethene	100	J
108-88-3	Toluene	250	U

679 14

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/21/01

Work Order: DXPK31AA

Date Extracted: 03/22/01

Dilution factor: 50

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-55-6	1,1,1-Trichloroethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
79-01-6	Trichloroethene	250	U
75-01-4	Vinyl chloride	500	U
1330-20-7	Xylenes (total)	250	U

FORM I

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/21/01

Work Order: DXPK32AA

Date Extracted: 03/22/01

Dilution factor: 100

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

Client Sample Id: DF/24-B/1079/IDW/006 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	400	J
71-43-2	Benzene	500	U
75-27-4	Bromodichloromethane	500	U
75-25-2	Bromoform	500	U
74-83-9	Bromomethane	210	J
78-93-3	2-Butanone	2000	U
75-15-0	Carbon disulfide	500	U
56-23-5	Carbon tetrachloride	500	U
108-90-7	Chlorobenzene	500	U
124-48-1	Dibromochloromethane	500	U
75-00-3	Chloroethane	1000	U
67-66-3	Chloroform	10000	
74-87-3	Chloromethane	270	J
75-34-3	1,1-Dichloroethane	500	U
107-06-2	1,2-Dichloroethane	500	U
75-35-4	1,1-Dichloroethene	500	U
540-59-0	1,2-Dichloroethene (total)	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
100-41-4	Ethylbenzene	500	U
591-78-6	2-Hexanone	2000	U
75-09-2	Methylene chloride	500	U
108-10-1	4-Methyl-2-pentanone	2000	U
100-42-5	Styrene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
127-18-4	Tetrachloroethene	500	U
108-88-3	Toluene	500	U

679 16

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/21/01

Work Order: DXPK32AA

Date Extracted: 03/22/01

Dilution factor: 100

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

Client Sample Id: DF/24-B/1079/IDW/006 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-55-6	1,1,1-Trichloroethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
79-01-6	Trichloroethene	500	U
75-01-4	Vinyl chloride	1000	U
1330-20-7	Xylenes (total)	500	U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

679 17

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

Matrix: (soil/water) WATER Lab Sample ID: C1C220000 349

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRPF1AC

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
71-43-2	Benzene	49.1	
108-90-7	Chlorobenzene	47.3	
75-35-4	1,1-Dichloroethene	49.0	
108-88-3	Toluene	49.5	
79-01-6	Trichloroethene	49.8	

FORM I

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C210184

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	DF/24-B/1079/IDW/006	94	102	100	96	00
02	DF/24-B/1079/IDW/006 RE-1	91	99	97	93	00
03	INTRA-LAB QC	92	99	98	92	00
04	METHOD BLK. DXRPF1AA	96	102	99	93	00
05	LCS DXRPF1AC	96	102	103	95	00
06	LAB MS/MSD D	96	103	103	95	00
07	LAB MS/MSD S	96	106	103	99	00

SURROGATES

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

QC LIMITS

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

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: STL PIT

SDG No:

Lot #: C1C220000

WO #: DXRPF1AC

BATCH: 1081349

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Benzene	50.0	49.1	98	79 - 116	
Toluene	50.0	49.5	99	76 - 119	
Chlorobenzene	50.0	47.3	95	81 - 115	
1,1-Dichloroethene	50.0	49.0	98	65 - 119	
Trichloroethene	50.0	49.8	100	80 - 122	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C220149

WO #: DXQ611AC

BATCH: 1081349

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0		52.6	105	57 - 138	
Trichloroethene	50.0		52.7	105	58 - 141	
Benzene	50.0		51.4	103	73 - 123	
Toluene	50.0		50.5	101	67 - 129	
Chlorobenzene	50.0		47.6	95	70 - 122	

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:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C220149

WO #: DXQ611AD

BATCH: 1081349

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS		QUAL
					RPD	REC	
1,1-Dichloroethene	50.0	51.1	102	2.9	20	57 - 138	
Trichloroethene	50.0	51.5	103	2.3	20	58 - 141	
Benzene	50.0	50.0	100	2.7	20	73 - 123	
Toluene	50.0	51.5	103	2.0	20	67 - 129	
Chlorobenzene	50.0	48.9	98	2.7	20	70 - 122	

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 limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

SW846 8260B METHOD BLANK SUMMARY

DXRPF1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: 6032205.D

Lot Number: C1C210184

Date Analyzed: 03/22/01

Time Analyzed: 11:39

Matrix: WATER

Date Extracted: 03/22/01

GC Column: RTX-624 ID: .18

Extraction Method: 5030

Instrument ID: HP6

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/24-B/1079/IDW/006	DXPK31AA	6032211.D	03/22/01	14:16
02	DF/24-B/1079/IDW/006	DXPK32AA	6032213.D	03/22/01	15:17
03	INTRA-LAB QC	DXQ611AA	6032207.D	03/22/01	12:37
04	LAB MS/MSD	DXQ611AC S	6032208.D	03/22/01	13:01
05	LAB MS/MSD	DXQ611AD D	6032209.D	03/22/01	13:26
06	CHECK SAMPLE	DXRPF1AC C	6032206.D	03/22/01	12:08
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C220000 349

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRPF1AA

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

Client Sample Id: INTRA-LAB BLANK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	20	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	20	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
591-78-6	2-Hexanone	20	U
75-09-2	Methylene chloride	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220000 349

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRPF1AA

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	5.0	U

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

679 25

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C210184

Lab File ID (Standard): 1C60322

Date Analyzed: 03/22/01

Instrument ID: HP6

Time Analyzed: 0747

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ)		IS2 (DCB)		IS3	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	182000	9.74	314312	12.05	764866	6.61
UPPER LIMIT	364000	10.24	628624	12.55	1529732	7.11
LOWER LIMIT	91000	9.24	157156	11.55	382433	6.11
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	192302	9.73	302880	12.05	812576	6.61
02 INTRA-LAB CH	189633	9.74	297242	12.05	848068	6.61
03 DF/24-B/1079	178144	9.73	286802	12.05	785347	6.61
04 DF/24-B/1079	172961	9.74	276348	12.05	768976	6.61
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

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

679

26

GC/MS SEMIVOLATILE SUMMARY

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXPK31AC

Date Extracted: 03/22/01

Dilution factor: 10

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
110-86-1	Pyridine	200	U
83-32-9	Acenaphthene	100	U
208-96-8	Acenaphthylene	100	U
120-12-7	Anthracene	100	U
56-55-3	Benzo(a)anthracene	100	U
50-32-8	Benzo(a)pyrene	100	U
205-99-2	Benzo(b)fluoranthene	100	U
207-08-9	Benzo(k)fluoranthene	100	U
191-24-2	Benzo(ghi)perylene	100	U
111-91-1	bis(2-Chloroethoxy)methane	100	U
111-44-4	bis(2-Chloroethyl) ether	100	U
117-81-7	bis(2-Ethylhexyl) phthalate	100	U
101-55-3	4-Bromophenyl phenyl ether	100	U
85-68-7	Butyl benzyl phthalate	100	U
86-74-8	Carbazole	100	U
106-47-8	4-Chloroaniline	100	U
59-50-7	4-Chloro-3-methylphenol	100	U
91-58-7	2-Chloronaphthalene	100	U
95-57-8	2-Chlorophenol	100	U
7005-72-3	4-Chlorophenyl phenyl ether	100	U
218-01-9	Chrysene	100	U
53-70-3	Dibenz(a,h)anthracene	100	U
132-64-9	Dibenzofuran	100	U
95-50-1	1,2-Dichlorobenzene	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
91-94-1	3,3'-Dichlorobenzidine	500	U
120-83-2	2,4-Dichlorophenol	100	U

679

28

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXPK31AC

Date Extracted: 03/22/01

Dilution factor: 10

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	100	U
105-67-9	2,4-Dimethylphenol	100	U
131-11-3	Dimethyl phthalate	100	U
84-74-2	Di-n-butyl phthalate	100	U
117-84-0	Di-n-octyl phthalate	100	U
51-28-5	2,4-Dinitrophenol	500	U
534-52-1	4,6-Dinitro-2-methylphenol	500	U
121-14-2	2,4-Dinitrotoluene	100	U
606-20-2	2,6-Dinitrotoluene	100	U
206-44-0	Fluoranthene	100	U
86-73-7	Fluorene	100	U
118-74-1	Hexachlorobenzene	100	U
87-68-3	Hexachlorobutadiene	100	U
77-47-4	Hexachlorocyclopentadiene	500	U
67-72-1	Hexachloroethane	100	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	U
78-59-1	Isophorone	100	U
91-57-6	2-Methylnaphthalene	100	U
95-48-7	2-Methylphenol	100	U
106-44-5	4-Methylphenol	100	U
91-20-3	Naphthalene	100	U
88-74-4	2-Nitroaniline	500	U
99-09-2	3-Nitroaniline	500	U
100-01-6	4-Nitroaniline	500	U
98-95-3	Nitrobenzene	100	U
88-75-5	2-Nitrophenol	100	U
100-02-7	4-Nitrophenol	500	U
621-64-7	N-Nitrosodi-n-propylamine	100	U

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXPK31AC

Date Extracted: 03/22/01

Dilution factor: 10

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	100	U
87-86-5	Pentachlorophenol	500	U
85-01-8	Phenanthrene	100	U
108-95-2	Phenol	100	U
129-00-0	Pyrene	100	U
120-82-1	1,2,4-Trichlorobenzene	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
88-06-2	2,4,6-Trichlorophenol	100	U

679 30

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 316

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXV8P1AC

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	37.4	
59-50-7	4-Chloro-3-methylphenol	56.0	
95-57-8	2-Chlorophenol	57.1	
106-46-7	1,4-Dichlorobenzene	36.8	
121-14-2	2,4-Dinitrotoluene	35.7	
100-02-7	4-Nitrophenol	52.1	
621-64-7	N-Nitrosodi-n-propylamine	36.5	
87-86-5	Pentachlorophenol	56.8	
108-95-2	Phenol	53.3	
129-00-0	Pyrene	32.6	
120-82-1	1,2,4-Trichlorobenzene	36.8	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

679

31

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 316

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXV8P1AD

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	32.8	
59-50-7	4-Chloro-3-methylphenol	44.1	
95-57-8	2-Chlorophenol	48.1	
106-46-7	1,4-Dichlorobenzene	32.8	
121-14-2	2,4-Dinitrotoluene	27.6	
100-02-7	4-Nitrophenol	35.3	p
621-64-7	N-Nitrosodi-n-propylamine	30.3	
87-86-5	Pentachlorophenol	35.9	
108-95-2	Phenol	44.3	
129-00-0	Pyrene	36.7	
120-82-1	1,2,4-Trichlorobenzene	33.5	

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C210184

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/24-B/1079/IDW/006	9.3*	0.0*	84	0.0*	0.0*	0.0*	05
02	METHOD BLK. DXV8P1AA	77	83	81	79	77	73	00
03	LCS DXV8P1AC	69	74	73	68	70	61	00
04	LCSD DXV8P1AD	56	67	64	73	58	54	00

SURROGATESQC LIMITS

SRG01 = Phenol-d5

(10-113)

SRG02 = 2-Fluorobiphenyl

(30-110)

SRG03 = Nitrobenzene-d5

(32-112)

SRG04 = Terphenyl-d14

(10-144)

SRG05 = 2-Fluorophenol

(13-110)

SRG06 = 2,4,6-Tribromophenol

(21-122)

Column to be used to flag recovery values

* Values outside of required QC Limits

D System monitoring Compound diluted out

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C230000

WO #: DXV8P1AC

BATCH: 1082316

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	53.3	71	10- 131	
2-Chlorophenol	75.0	57.1	76	19- 124	
1,4-Dichlorobenzene	50.0	36.8	74	28- 110	
N-Nitrosodi-n-propylamine	50.0	36.5	73	30- 115	
1,2,4-Trichlorobenzene	50.0	36.8	74	31- 110	
4-Chloro-3-methylphenol	75.0	56.0	75	29- 124	
Acenaphthene	50.0	37.4	75	39- 118	
4-Nitrophenol	75.0	52.1	69	19- 144	
2,4-Dinitrotoluene	50.0	35.7	71	47- 131	
Pentachlorophenol	75.0	56.8	76	10- 140	
Pyrene	50.0	32.6	65	46- 130	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C230000

WO #: DXV8P1AD

BATCH: 1082316

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	44.3	59	10 - 131	
2-Chlorophenol	75.0	48.1	64	19 - 124	
1,4-Dichlorobenzene	50.0	32.8	66	28 - 110	
N-Nitrosodi-n-propylamine	50.0	30.3	61	30 - 115	
1,2,4-Trichlorobenzene	50.0	33.5	67	31 - 110	
4-Chloro-3-methylphenol	75.0	44.1	59	29 - 124	
Acenaphthene	50.0	32.8	66	39 - 118	
4-Nitrophenol	75.0	35.3	47	19 - 144	p
2,4-Dinitrotoluene	50.0	27.6	55	47 - 131	
Pentachlorophenol	75.0	35.9	48	10 - 140	
Pyrene	50.0	36.7	73	46 - 130	

NOTES (S) :

p Relative percent difference (RPD) is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXV8P1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

679

35

Lab File ID: F0326020.

Lot Number: C1C210184

Date Analyzed: 03/26/01

Time Analyzed: 14:23

Matrix: WATER

Date Extracted: 03/22/01

GC Column: HP5MS ID: .25

Extraction Method: 3520C

Instrument ID: 722

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/24-B/1079/IDW/006	DXPK31AC	F0326011.	03/26/01	16:01
02	CHECK SAMPLE	DXV8P1AC C	F0326009.	03/26/01	14:56
03	DUPLICATE CHECK	DXV8P1AD L	F0326068.	03/26/01	23:56
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 316

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXV8P1AA

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
110-86-1	Pyridine	20	U
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
86-74-8	Carbazole	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	50	U
120-83-2	2,4-Dichlorophenol	10	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

679

37

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 316

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXV8P1AA

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
84-74-2	Di-n-butyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
51-28-5	2,4-Dinitrophenol	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	50	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	50	U
99-09-2	3-Nitroaniline	50	U
100-01-6	4-Nitroaniline	50	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	50	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 316

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXV8P1AA

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
86-30-6	N-Nitrosodiphenylamine	10		U
108-60-1	2,2'-oxybis(1-Chloropropane)	10		U
87-86-5	Pentachlorophenol	50		U
85-01-8	Phenanthrene	10		U
108-95-2	Phenol	10		U
129-00-0	Pyrene	10		U
120-82-1	1,2,4-Trichlorobenzene	10		U
95-95-4	2,4,5-Trichlorophenol	10		U
88-06-2	2,4,6-Trichlorophenol	10		U

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract: 679 39
Lab Code: Case No.: SAS No.: SDG No.: C1C2W184
Lab File ID (Standard): F03260C2 Date Analyzed: 03/26/01
Instrument ID: 722 Time Analyzed: 0920

	IS1 (DCB)	RT #	IS2 (NPT)	RT #	IS3 (ANT)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	173497	5.02	669622	6.55	370538	9.56
UPPER LIMIT	346994	5.52	1339244	7.05	741076	10.06
LOWER LIMIT	86749	4.52	334811	6.05	185269	9.06
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	169013	5.02	677713	6.54	408686	9.55
02 INTRA-LAB CH	173405	5.02	708922	6.54	420820	9.55
03 DF/24-B/1079	158823	5.02	636757	6.54	247659	9.55
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

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

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

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

679 40

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: CK20184

Lab File ID (Standard): F03260C2

Date Analyzed: 03/26/01

Instrument ID: 722

Time Analyzed: 0920

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	660452	12.86	752422	19.48	686864	22.83
UPPER LIMIT	1320904	13.36	1504844	19.98	1373728	23.33
LOWER LIMIT	330226	12.36	376211	18.98	343432	22.33
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	786374	12.84	1034279	19.46	1205693	22.81
02 INTRA-LAB CH	805252	12.84	1078648	19.46	1282614	22.81
03 DF/24-B/1079	692917	12.84	967054	19.47		
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract: 679 41
Lab Code: Case No.: SAS No.: SDG No.: C121084
Lab File ID (Standard): F03260CN Date Analyzed: 03/26/01
Instrument ID: 722 Time Analyzed: 2147

	IS1 (DCB)	RT #	IS2 (NPT)	RT #	IS3 (ANT)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	226555	5.01	847666	6.53	433967	9.53
UPPER LIMIT	453110	5.51	1695332	7.03	867934	10.03
LOWER LIMIT	113278	4.51	423833	6.03	216984	9.03
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB CH	219145	5.02	858965	6.54	465067	9.54
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

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

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

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

C1021018Y

Lab File ID (Standard): F03260CN

Date Analyzed: 03/26/01

Instrument ID: 722

Time Analyzed: 2147

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	690585	12.82	663369	19.44	641208	22.79
UPPER LIMIT	1381170	13.32	1326738	19.94	1282416	23.29
LOWER LIMIT	345293	12.32	331685	18.94	320604	22.29
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB CH	745424	12.83	648624	19.45	593440	22.81
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

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

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

PESTICIDE SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXPK31AD

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/24/01

Moisture %: NA

QC Batch: 1081497

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
309-00-2	Aldrin	0.037		J P
319-84-6	alpha-BHC	0.050		U
319-85-7	beta-BHC	0.70		
319-86-8	delta-BHC	0.18		
58-89-9	gamma-BHC (Lindane)	0.050		J
5103-71-9	alpha-Chlordane	0.050		U
5103-74-2	gamma-Chlordane	0.14		P
72-54-8	4,4'-DDD	0.092		P
72-55-9	4,4'-DDE	0.089		P
50-29-3	4,4'-DDT	0.082		P
60-57-1	Dieldrin	0.21		P
959-98-8	Endosulfan I	0.17		P
33213-65-9	Endosulfan II	0.098		P
1031-07-8	Endosulfan sulfate	0.029		J P
72-20-8	Endrin	0.14		P
7421-93-4	Endrin aldehyde	0.19		P
53494-70-5	Endrin ketone	0.050		U
76-44-8	Heptachlor	0.050		U
1024-57-3	Heptachlor epoxide	0.050		U
72-43-5	Methoxychlor	0.10		U
8001-35-2	Toxaphene	2.0		U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

679

45

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

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

Lab Sample ID: C1C220000 497

Sample WT/Vol: 1000 / mL
Work Order: DXTLX1AC
Dilution factor: 1
Moisture %: NA

Date Received: 03/21/01
Date Extracted: 03/22/01
Date Analyzed: 03/24/01

QC Batch: 1081497

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.212	
58-89-9	gamma-BHC (Lindane)	0.219	
50-29-3	4,4'-DDT	0.490	
60-57-1	Dieldrin	0.496	
72-20-8	Endrin	0.525	
76-44-8	Heptachlor	0.216	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

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

Lab Sample ID: C1C220000 497

Sample WT/Vol: 1000 / mL
Work Order: DXTLX1AD
Dilution factor: 1
Moisture %: NADate Received: 03/21/01
Date Extracted: 03/22/01
Date Analyzed: 03/24/01

QC Batch: 1081497

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.175	
58-89-9	gamma-BHC (Lindane)	0.179	
50-29-3	4,4'-DDT	0.427	
60-57-1	Dieldrin	0.429	
72-20-8	Endrin	0.458	
76-44-8	Heptachlor	0.180	

2E
WATER PESTICIDE SURROGATE RECOVERY

679 47

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C210184

GC Column(1): RTX-50

ID: 0.53 (mm)

GC Column(2): RTX-1701

ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	PBLK1497	79	80	95	94			0
02	LCS1497		84		96			0
03	LCD1497		72		86			0
04	DF/24-B/1079	0*	344*	74	78			2
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (39-130)

S2 (DCB) = Decachlorobiphenyl (10-147)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

679 48

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C220000

WO #: DXTLX1AC

BATCH: 1081497

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.219	88	49- 137	
Heptachlor	0.250	0.216	86	57- 124	
Aldrin	0.250	0.212	85	62- 120	
Dieldrin	0.500	0.496	99	68- 130	
Endrin	0.500	0.525	105	46- 137	
4,4'-DDT	0.500	0.490	98	60- 140	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

FORM III

STL Pittsburgh

48

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C220000

WO #: DXTLX1AD

BATCH: 1081497

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	0.250	0.179	72	49 - 137	
Heptachlor	0.250	0.180	72	57 - 124	
Aldrin	0.250	0.175	70	62 - 120	
Dieldrin	0.500	0.429	86	68 - 130	
Endrin	0.500	0.458	92	46 - 137	
4,4'-DDT	0.500	0.427	85	60 - 140	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

679 50 4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1497

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: C1C210184
Lab Sample ID: DXTLX1AA Lab File ID: D-A3145
Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SW3510
Sulfur Cleanup (Y/N) N Date Extracted: 03/22/01
Date Analyzed (1): 03/24/01 Date Analyzed (2): 03/24/01
Time Analyzed (1): 0538 Time Analyzed (2): 0538
Instrument ID (1): GC4 Instrument ID (2): GC4
GC Column (1): RTX-50 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	LCS1497	DXTLX1AC		03/24/01
02	LCD1497	DXTLX1AD		03/24/01
03	DF/24-B/1079	DXPK31AD	03/24/01	03/24/01
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C220000 497

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXTLX1AA

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/24/01

Moisture %: NA

QC Batch: 1081497

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
72-54-8	4,4'-DDD	0.050	U
72-55-9	4,4'-DDE	0.050	U
50-29-3	4,4'-DDT	0.050	U
60-57-1	Dieldrin	0.050	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
72-20-8	Endrin	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

679 52

PCB SUMMARY

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXPK31AE

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/24/01

QC Batch: 1081500

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	1.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8082
PCBs (8082)

Lab Sample ID: C1C220000 500

Sample WT/Vol: 1000 / mL
Work Order: DXTL21AC
Dilution factor: 1Date Received: 03/21/01
Date Extracted: 03/22/01
Date Analyzed: 03/24/01

QC Batch: 1081500

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
12674-11-2	Aroclor 1016	8.52	
11096-82-5	Aroclor 1260	9.25	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

679

55

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

Matrix: (soil/water) WATER
Method: SW846 8082
PCBs (8082)

Lab Sample ID: C1C220000 500

Sample WT/Vol: 1000 / mL
Work Order: DXTL21AD
Dilution factor: 1

Date Received: 03/21/01
Date Extracted: 03/22/01
Date Analyzed: 03/24/01

QC Batch: 1081500

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	7.85	
11096-82-5	Aroclor 1260	9.50	

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C210184

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/24-B/1079/IDW/006	556*	86	01
02	METHOD BLK. DXTL21AA	84	98	00
03	LCS DXTL21AC	85	98	00
04	LCSD DXTL21AD	77	99	00

SURROGATES

SRG01 = Tetrachloro-m-xylene
SRG02 = Decachlorobiphenyl

QC LIMITS

(45-120)
(24-128)

- # 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: STLPIT

SDG No:

Lot #: C1C220000

WO #: DXTL21AC

BATCH: 1081500

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	8.52	85	61 - 118	
Aroclor 1260	10.0	9.25	93	61 - 124	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

679 58

SW846 8082 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C220000

WO #: DXTL21AD

BATCH: 1081500

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.85	78	61- 118	
Aroclor 1260	10.0	9.50	95	61- 124	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXTL21AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: H-A20804.

Lot Number: C1C210184

Matrix: WATER

Extraction Method:

Date Extracted: 03/22/01

Date Analyzed(1): 03/24/01

Date Analyzed(2): N/A

Time Analyzed(1): 00:56

Time Analyzed(2): N/A

Instrument ID(1): M/N

Instrument ID(2): N/A

GC Column(1): N/A

ID: N/A

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/24-B/1079/IDW/006	DXPK31AE	03/24/01	N/A
02	CHECK SAMPLE	DXTL21AC C	03/24/01	N/A
03	DUPLICATE CHECK	DXTL21AD L	03/24/01	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

673

60

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:
Matrix: (soil/water) WATER Lab Sample ID: C1C220000 500
Method: SW846 8082
PCBs (8082)
Sample WT/Vol: 1000 / mL Date Received: 03/21/01
Work Order: DXTL21AA Date Extracted: 03/22/01
Dilution factor: 1 Date Analyzed: 03/24/01
QC Batch: 1081500
Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	1.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U

HERBICIDE SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXPK31CC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/28/01

Moisture %: NA

QC Batch: 1082391

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
94-75-7	2,4-D		40	U
93-72-1	2,4,5-TP (Silvex)		2.7	J P

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

679

63

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 391

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXWV51AC

Date Extracted: 03/23/01

Dilution factor: 1

Date Analyzed: 03/27/01

Moisture %: NA

QC Batch: 1082391

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
94-75-7	2,4-D	11.5	
93-72-1	2,4,5-TP (Silvex)	2.73	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:
Matrix: (soil/water) WATER Lab Sample ID: C1C230000 391
Method: SW846 8151A
Herbicides (8151A)
Sample WT/Vol: 1000 / mL Date Received: 03/21/01
Work Order: DXWV51AD Date Extracted: 03/23/01
Dilution factor: 1 Date Analyzed: 03/27/01
Moisture %: NA QC Batch: 1082391
Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
94-75-7	2,4-D	9.47	
93-72-1	2,4,5-TP (Silvex)	2.54	

2E
WATER PESTICIDE SURROGATE RECOVERY

679

65

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C210184

GC Column(1): RTX-50

ID: 0.53 (mm)

	EPA SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	S2 1 %REC #	S2 2 %REC #	S3 1 %REC #	S3 2 %REC #	TOT OUT
01	LCS2391	76						0
02	LCD2391	69						0
03	PBLK2391	75	72					0
04	DF/24-B/1079	912D	349D					0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
(53-119)

S1 = DCAA

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

679 66

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C230000

WO #: DXWV51AC

BATCH: 1082391

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	16.0	11.5	72	46 - 124	
2,4,5-TP (Silvex)	4.00	2.73	68	53 - 127	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLBIT

SDG No:

Lot #: C1C230000

WO #: DXWV51AD

BATCH: 1082391

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	16.0	9.47	59	46 - 124	
2,4,5-TP (Silvex)	4.00	2.54	64	53 - 127	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

679

68

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK2391

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C210184

Lab Sample ID: DXWV51AA

Lab File ID: A-A20371

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SW846 8151A

Sulfur Cleanup (Y/N) N

Date Extracted: 03/23/01

Date Analyzed (1): 03/27/01

Date Analyzed (2): 03/27/01

Time Analyzed (1): 2100

Time Analyzed (2): 2131

Instrument ID (1): GC1

Instrument ID (2): GC1

GC Column (1): RTX-50

ID: 0.53 (mm)

GC Column (2): DB1701

ID: 0.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	LCS2391	DXWV51AC	03/27/01	
02	LCD2391	DXWV51AD	03/27/01	
03	DF/24-B/1079	DXPK31CC	03/28/01	03/28/01
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C230000 391
Method: SW846 8151A
Herbicides (8151A)Sample WT/Vol: 1000 / mL Date Received: 03/21/01
Work Order: DXWV51AA Date Extracted: 03/23/01
Dilution factor: 1 Date Analyzed: 03/27/01
Moisture %: NA

QC Batch: 1082391

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
94-75-7	2,4-D	4.0	U
93-72-1	2,4,5-TP (Silvex)	1.0	U

679 70

METALS SUMMARY

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXPK3 Client ID: DF/24-B/1079/IDW/006
 Matrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081151
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.7	200	1710	N	1	ICP	3/23/01	12:47
Antimony	220.35	1.5	60.0	2.7	B	1	ICPST	3/24/01	22:13
Arsenic	189.04	2.6	10.0	3.3	B	1	ICPST	3/24/01	22:13
Barium	493.41	0.41	200	92.5	BNE	1	ICP	3/23/01	12:47
Beryllium	313.04	0.071	5.0	0.080	BN	1	ICP	3/23/01	15:27
Cadmium	226.50	0.49	5.0	0.49	U	1	ICPST	3/24/01	22:13
Calcium	317.93	37.9	5000	18800	N	1	ICP	3/23/01	12:47
Chromium	267.72	1.0	10.0	60.1	E	1	ICPST	3/24/01	22:13
Cobalt	228.62	3.2	50.0	3.8	BN	1	ICP	3/23/01	12:47
Copper	324.75	2.2	25.0	24.5	BN	1	ICP	3/23/01	12:47
Iron	259.94	8.8	100	1640	N	1	ICP	3/23/01	12:47
Lead	220.35	1.9	3.0	3.0	B	1	ICPST	3/24/01	22:13
Magnesium	279.08	19.9	5000	4710	BNE	1	ICP	3/23/01	12:47
Manganese	257.61	0.87	15.0	52.8	N	1	ICP	3/23/01	12:47
Nickel	231.60	6.1	40.0	6.1	UN	1	ICP	3/23/01	12:47
Potassium	766.49	496	5000	4240	B	1	ICP	3/23/01	12:47
Selenium	220.35	2.1	5.0	2.1	U	1	ICPST	3/24/01	22:13
Silver	328.07	0.94	10.0	2.7	B	1	ICPST	3/24/01	22:13
Sodium	589	363	125000	4710000		25	ICP	3/23/01	15:40
Thallium	190.86	3.9	10.0	3.9	U	1	ICPST	3/24/01	22:13
Vanadium	292.40	1.8	50.0	5.5	BN	1	ICP	3/23/01	12:47
Zinc	213.86	3.1	20.0	92.6		1	ICP	3/23/01	12:47

Comments: Lot #: C1C210184 Sample #: 1

Version 4.10 2

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

Form 1 Equivalent

679 72

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXPK3 Client ID: DF/24-B/1079/IDW/006
Matrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1081287
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.054	0.20	0.24		1	CVAA	3/23/01	10:05

Comments: Lot #: C1C210184 Sample #: 1

Version 4.10.2

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

Form 1 Equivalent

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0323HGA.PRN

Standard Source: _____

Standard ID: _____

			ICB1 3/23/01 9:46 AM				
Element	WL/ Mass	Report Limit	Found Q	Found Q	Found Q	Found Q	Found Q
Mercury	253.7	0.2	0.1 U				

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10323A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 3/23/01 11:43 AM		Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q										
Aluminum	308.215	200	12.7	U										
Barium	493.409	200	0.4	U										
Calcium	317.933	5000	37.9	U										
Cobalt	228.616	50	3.2	U										
Copper	324.754	25	2.5	B										
Iron	259.94	100	8.8	U										
Magnesium	279.079	5000	19.9	U										
Manganese	257.61	15	0.9	U										
Nickel	231.604	40	6.1	U										
Potassium	766.491	5000	496.0	U										
Sodium	588.995	5000	16.9	B										
Vanadium	292.402	50	1.8	U										
Zinc	213.856	20	3.1	U										

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10323B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 3/23/01 3:11 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Aluminum	308.215	200	37.8	B								
Barium	493.409	200	2.5	B								
Beryllium	313.042	5	2.5	B								
Calcium	317.933	5000	44.9	B								
Cobalt	228.616	50	3.2	U								
Copper	324.754	25	4.6	B								
Iron	259.94	100	55.6	B								
Magnesium	279.079	5000	36.7	B								
Manganese	257.61	15	3.3	B								
Nickel	231.604	40	9.1	B								
Potassium	766.491	5000	496.0	U								
Sodium	588.995	5000	73.1	B								
Vanadium	292.402	50	1.8	U								
Zinc	213.856	20	4.8	B								

679

76

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10324C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 3/24/01 8:14 PM							
			Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	1.5	U						
Arsenic	189.042	10	2.6	U						
Cadmium	226.502	5	0.5	U						
Chromium	267.716	10	3.8	B						
Lead	220.353	3	1.9	U						
Selenium	220.353	5	2.1	U						
Silver	328.068	10	0.9	U						
Thallium	190.864	10	3.9	U						

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0323HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/23/01 9:50 AM	CCB2 3/23/01 10:08 AM	CCB3 3/23/01 10:28 AM		
			Found Q	Found Q	Found Q	Found Q	Found Q
Mercury	253.7	0.2	0.1 U	0.1 U	0.1 U		

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10323A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/23/01 12:21 PM		CCB2 3/23/01 12:59 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q	Found	Q								
Aluminum	308.215	200	12.7	U	66.5	B								
Barium	493.409	200	0.4	U	7.3	B								
Calcium	317.933	5000	37.9	U	87.9	B								
Cobalt	228.616	50	3.2	U	6.6	B								
Copper	324.754	25	2.2	U	8.4	B								
Iron	259.94	100	8.8	U	71.5	B								
Magnesium	279.079	5000	19.9	U	67.7	B								
Manganese	257.61	15	0.9	U	7.1	B								
Nickel	231.604	40	6.1	U	6.1	U								
Potassium	766.491	5000	496.0	U	496.0	U								
Sodium	588.995	5000	14.5	U	797.0	B								
Vanadium	292.402	50	-2.5	B	3.3	B								
Zinc	213.856	20	3.1	U	7.2	B								

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10323B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/23/01 3:51 PM		CCB2 ^{CH2} 3/23/01 4:29 PM					
			Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	-57.0	B						
Barium	493.409	200	0.4	U						
Beryllium	313.042	5	0.1	B						
Calcium	317.933	5000	-44.0	B						
Cobalt	228.616	50	3.2	U						
Copper	324.754	25	2.2	U						
Iron	259.94	100	-23.0	B						
Magnesium	279.079	5000	-25.0	B						
Manganese	257.61	15	0.9	U						
Nickel	231.604	40	6.1	U						
Potassium	766.491	5000	496.0	U						
Sodium	588.995	5000	14.5	U	200.0	B				
Vanadium	292.402	50	3.8	B						
Zinc	213.856	20	3.1	U						

679

80

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10324C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/24/01 9:07 PM		CCB2 3/24/01 10:00 PM		CCB3 3/24/01 10:53 PM		Found	Q
			Found	Q	Found	Q	Found	Q		
Antimony	220.353	60	1.5	U	-2.1	B	1.5	U		
Arsenic	189.042	10	2.6	U	2.6	U	2.6	U		
Cadmium	226.502	5	0.5	U	0.5	U	0.5	U		
Chromium	267.716	10	2.9	B	2.7	B	3.3	B		
Lead	220.353	3	1.9	U	1.9	U	1.9	U		
Selenium	220.353	5	2.1	U	2.1	U	2.1	U		
Silver	328.068	10	-0.9	B	0.9	U	0.9	U		
Thallium	190.864	10	-5.4	B	3.9	U	3.9	U		

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXQVCBMatrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081151Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	12.7	200	12.7	U	1	ICP	3/23/01	12:40
Antimony	220.353	1.5	60.0	-1.6	B	1	ICPST	3/24/01	22:05
Arsenic	189.042	2.6	10.0	2.6	U	1	ICPST	3/24/01	22:05
Barium	493.409	0.41	200	0.41	U	1	ICP	3/23/01	12:40
Beryllium	313.042	0.071	5.0	0.63	B	1	ICP	3/23/01	15:21
Cadmium	226.502	0.49	5.0	0.49	U	1	ICPST	3/24/01	22:05
Calcium	317.933	37.9	5000	37.9	U	1	ICP	3/23/01	12:40
Chromium	267.716	1.0	10.0	-1.7	B	1	ICPST	3/24/01	22:05
Cobalt	228.616	3.2	50.0	3.2	U	1	ICP	3/23/01	12:40
Copper	324.754	2.2	25.0	2.2	U	1	ICP	3/23/01	12:40
Iron	259.94	8.8	100	8.8	U	1	ICP	3/23/01	12:40
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	3/24/01	22:05
Magnesium	279.079	19.9	5000	19.9	U	1	ICP	3/23/01	12:40
Manganese	257.61	0.87	15.0	0.87	U	1	ICP	3/23/01	12:40
Nickel	231.604	6.1	40.0	6.1	U	1	ICP	3/23/01	12:40
Potassium	766.491	496	5000	496	U	1	ICP	3/23/01	12:40
Selenium	220.353	2.1	5.0	2.1	U	1	ICPST	3/24/01	22:05
Silver	328.068	0.94	10.0	0.94	U	1	ICPST	3/24/01	22:05
Sodium	588.995	14.5	5000	14.5	U	1	ICP	3/23/01	12:40
Thallium	190.864	3.9	10.0	-5.4	B	1	ICPST	3/24/01	22:05
Vanadium	292.402	1.8	50.0	1.8	U	1	ICP	3/23/01	12:40
Zinc	213.856	3.1	20.0	3.1	U	1	ICP	3/23/01	12:40

Comments: Lot #: C1C210184

Version 4.10.2

U Result is less than the MDL

Form 3 Equivalent

B Result is between MDL and RL

STL-Pittsburgh
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXRFHBMatrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1081287Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.054	0.20	-0.098	B	1	CVAA	3/23/01	10:02

Comments: Lot #: C1C210184

Version 4.10 2

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

Form 3 Equivalent

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DXPK3SOriginal Sample ID: DXPK3 Client ID: DF/24-B/1079/IDW/006SMatrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081151Weight: 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
Aluminum	308.2	1710		3150	N	2000	72.1	1	1	ICP	3/23/01	12:47	3/23/01	12:53
Antimony	220.4	2.7	B	453		500	89.9	1	1	ICPST	3/24/01	22:13	3/24/01	22:22
Arsenic	189.0	3.3	B	1920		2000	95.8	1	1	ICPST	3/24/01	22:13	3/24/01	22:22
Barium	493.4	92.5	B	1430	N	2000	67.1	1	1	ICP	3/23/01	12:47	3/23/01	12:53
Beryllium	313.0	0.080	B	35.6	N	50	70.9	1	1	ICP	3/23/01	15:27	3/23/01	15:33
Cadmium	226.5	0.49	U	44.5		50	89.0	1	1	ICPST	3/24/01	22:13	3/24/01	22:22
Calcium	317.9	18800		55500	N	50000	73.5	1	1	ICP	3/23/01	12:47	3/23/01	12:53
Chromium	267.7	60.1		235		200	87.5	1	1	ICPST	3/24/01	22:13	3/24/01	22:22
Cobalt	228.6	3.8	B	368	N	500	72.7	1	1	ICP	3/23/01	12:47	3/23/01	12:53
Copper	324.8	24.5	B	211	N	250	74.4	1	1	ICP	3/23/01	12:47	3/23/01	12:53
Iron	259.9	1640		1960	N	1000	32.4	1	1	ICP	3/23/01	12:47	3/23/01	12:53
Lead	220.4	3.0	B	459		500	91.2	1	1	ICPST	3/24/01	22:13	3/24/01	22:22
Magnesium	279.1	4710	B	40900	N	50000	72.3	1	1	ICP	3/23/01	12:47	3/23/01	12:53
Manganese	257.6	52.8		407	N	500	70.7	1	1	ICP	3/23/01	12:47	3/23/01	12:53
Nickel	231.6	6.1	U	367	N	500	73.3	1	1	ICP	3/23/01	12:47	3/23/01	12:53
Potassium	766.5	4240	B	46800		50000	85.1	1	1	ICP	3/23/01	12:47	3/23/01	12:53
Selenium	220.4	2.1	U	1880		2000	94.2	1	1	ICPST	3/24/01	22:13	3/24/01	22:22
Silver	328.1	2.7	B	51.1		50	96.7	1	1	ICPST	3/24/01	22:13	3/24/01	22:22
Sodium	589	4710000		4850000	NC	50000		25	25	ICP	3/23/01	15:40	3/23/01	15:55
Thallium	190.9	3.9	U	1920		2000	95.9	1	1	ICPST	3/24/01	22:13	3/24/01	22:22
Vanadium	292.4	5.5	B	371	N	500	73.1	1	1	ICP	3/23/01	12:47	3/23/01	12:53
Zinc	213.9	92.6		474		500	76.2	1	1	ICP	3/23/01	12:47	3/23/01	12:53

Comments: Lot #: C1C210184 Sample #: 1

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: DXPK3DOriginal Sample ID: DXPK3 Client ID: DF/24-B/1079/IDW/006SDMatrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081151Weight: 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
Aluminum	308.2	1710	N	3300		2000	79.8	1	1	ICP	3/23/01	12:47	3/23/01	15:36
Antimony	220.4	2.7	B	466		500	92.7	1	1	ICPST	3/24/01	22:13	3/24/01	22:27
Arsenic	189.0	3.3	B	2010		2000	100.1	1	1	ICPST	3/24/01	22:13	3/24/01	22:27
Barium	493.4	92.5	BN	1600		2000	75.4	1	1	ICP	3/23/01	12:47	3/23/01	15:36
Beryllium	313.0	0.080	BN	36.7	N	50	73.2	1	1	ICP	3/23/01	15:27	3/23/01	15:36
Cadmium	226.5	0.49	U	46.7		50	93.4	1	1	ICPST	3/24/01	22:13	3/24/01	22:27
Calcium	317.9	18800	N	61100		50000	84.6	1	1	ICP	3/23/01	12:47	3/23/01	15:36
Chromium	267.7	60.1		249		200	94.6	1	1	ICPST	3/24/01	22:13	3/24/01	22:27
Cobalt	228.6	3.8	BN	391		500	77.5	1	1	ICP	3/23/01	12:47	3/23/01	15:36
Copper	324.8	24.5	BN	235		250	84.0	1	1	ICP	3/23/01	12:47	3/23/01	15:36
Iron	259.9	1640	N	2030	N	1000	39.5	1	1	ICP	3/23/01	12:47	3/23/01	15:36
Lead	220.4	3.0	B	481		500	95.6	1	1	ICPST	3/24/01	22:13	3/24/01	22:27
Magnesium	279.1	4710	BN	44900		50000	80.4	1	1	ICP	3/23/01	12:47	3/23/01	15:36
Manganese	257.6	52.8	N	440		500	77.3	1	1	ICP	3/23/01	12:47	3/23/01	15:36
Nickel	231.6	6.1	UN	397		500	79.4	1	1	ICP	3/23/01	12:47	3/23/01	15:36
Potassium	766.5	4240	B	51300		50000	94.1	1	1	ICP	3/23/01	12:47	3/23/01	15:36
Selenium	220.4	2.1	U	1930		2000	96.6	1	1	ICPST	3/24/01	22:13	3/24/01	22:27
Silver	328.1	2.7	B	51.4		50	97.4	1	1	ICPST	3/24/01	22:13	3/24/01	22:27
Sodium	589	4710000		4660000	NC	50000		25	25	ICP	3/23/01	15:40	3/23/01	15:58
Thallium	190.9	3.9	U	1980		2000	99.1	1	1	ICPST	3/24/01	22:13	3/24/01	22:27
Vanadium	292.4	5.5	BN	404		500	79.7	1	1	ICP	3/23/01	12:47	3/23/01	15:36
Zinc	213.9	92.6		509		500	83.3	1	1	ICP	3/23/01	12:47	3/23/01	15:36

Comments: Lot #: C1C210184 Sample #. 1

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 Sample Results

Spike Sample ID: DXPK3S
Original Sample ID: DXPK3 Client ID: DF/24-B/1079/IDW/006S
Matrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1081287
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	0.24		1.3		1	102.0	1	1	CVAA	3/23/01	10:05	3/23/01	10:10

Comments. Lot #: C1C210184 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

679

86

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DXPK3DOriginal Sample ID: DXPK3Client ID: DF/24-B/1079/IDW/006SDMatrix: WaterUnits: ug/LPrep Date: 3/23/01Prep Batch: 1081287Weight: NAVolume: 100Percent 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	0.24		1.4		1	111.0	1	1	CVAA	3/23/01	10:05	3/23/01	10:11

Comments. Lot #: C1C210184 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: DXPK3DMatrix Spike Sample ID: DXPK3S Client ID: DF/24-B/1079/IDW/006SDMatrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081151Weight: 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
Aluminum	308.215	3150	N	3300		10.1 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36
Antimony	220.353	453		466		3.0 %	1	1	ICPST	3/24/01	22:22	3/24/01	22:27
Arsenic	189.042	1920		2010		4.4 %	1	1	ICPST	3/24/01	22:22	3/24/01	22:27
Barium	493.409	1430	N	1600		11.7 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36
Beryllium	313.042	35.6	N	36.7	N	3.1 %	1	1	ICP	3/23/01	15:33	3/23/01	15:36
Cadmium	226.502	44.5		46.7		4.8 %	1	1	ICPST	3/24/01	22:22	3/24/01	22:27
Calcium	317.933	55500	N	61100		14.1 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36
Chromium	267.716	235		249		7.8 %	1	1	ICPST	3/24/01	22:22	3/24/01	22:27
Cobalt	228.616	368	N	391		6.3 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36
Copper	324.754	211	N	235		12.1 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36
Iron	259.94	1960	N	2030	N	19.8 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36
Lead	220.353	459		481		4.7 %	1	1	ICPST	3/24/01	22:22	3/24/01	22:27
Magnesium	279.079	40900	N	44900		10.6 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36
Manganese	257.61	407	N	440		8.9 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36
Nickel	231.604	367	N	397		7.9 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36
Potassium	766.491	46800		51300		10.0 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36
Selenium	220.353	1880		1930		2.5 %	1	1	ICPST	3/24/01	22:22	3/24/01	22:27
Silver	328.068	51.1		51.4		0.7 %	1	1	ICPST	3/24/01	22:22	3/24/01	22:27
Sodium	588.995	4850000	NC	4660000	NC		25	25	ICP	3/23/01	15:55	3/23/01	15:58
Thallium	190.864	1920		1980		3.3 %	1	1	ICPST	3/24/01	22:22	3/24/01	22:27
Vanadium	292.402	371	N	404		8.6 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36
Zinc	213.856	474		509		9.0 %	1	1	ICP	3/23/01	12:53	3/23/01	15:36

Comments: Lot #: C1C210184 Sample #: 1

Version 4.10.2

U Result is less than the MDL

Form 6 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

679 88

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DXPK3DMatrix Spike Sample ID: DXPK3S Client ID: DF/24-B/1079/IDW/006SDMatrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1081287Weight: 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	1.3		1.4		85%	1	1	CVAA	3/23/01	10:10	3/23/01	10:11

Comments: Lot #. C1C210184 Sample #: 1

Version 4.10 2

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

Form 6 Equivalent

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DXQVCCMatrix: Water Units: ug/L Prep Date: 3/22/01 Prep Batch: 1081151Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	2000	1850	92.7		80-120	1	ICP	3/23/01	12:43
Antimony	220.353	500	483	96.5		80-120	1	ICPST	3/24/01	22:09
Arsenic	189.042	2000	1960	97.9		80-120	1	ICPST	3/24/01	22:09
Barium	493.409	2000	1830	91.7		80-120	1	ICP	3/23/01	12:43
Beryllium	313.042	50.0	47.1	94.1		80-120	1	ICP	3/23/01	15:24
Cadmium	226.502	50.0	46.9	93.8		80-120	1	ICPST	3/24/01	22:09
Calcium	317.933	50000	49100	98.3		80-120	1	ICP	3/23/01	12:43
Chromium	267.716	200	199	99.3		80-120	1	ICPST	3/24/01	22:09
Cobalt	228.616	500	460	92.0		80-120	1	ICP	3/23/01	12:43
Copper	324.754	250	231	92.6		80-120	1	ICP	3/23/01	12:43
Iron	259.94	1000	979	97.9		80-120	1	ICP	3/23/01	12:43
Lead	220.353	500	482	96.4		80-120	1	ICPST	3/24/01	22:09
Magnesium	279.079	50000	50400	100.8		80-120	1	ICP	3/23/01	12:43
Manganese	257.61	500	461	92.3		80-120	1	ICP	3/23/01	12:43
Nickel	231.604	500	464	92.8		80-120	1	ICP	3/23/01	12:43
Potassium	766.491	50000	49800	99.5		80-120	1	ICP	3/23/01	12:43
Selenium	220.353	2000	1960	98.0		80-120	1	ICPST	3/24/01	22:09
Silver	328.068	50.0	49.0	98.0		80-120	1	ICPST	3/24/01	22:09
Sodium	588.995	50000	50400	100.9		80-120	1	ICP	3/23/01	12:43
Thallium	190.864	2000	2010	100.6		80-120	1	ICPST	3/24/01	22:09
Vanadium	292.402	500	461	92.2		80-120	1	ICP	3/23/01	12:43
Zinc	213.856	500	467	93.4		80-120	1	ICP	3/23/01	12:43

Comments: Lot #: C1C210184

Version 4.10.2

U Result is less than the MDL

Form 7 Equivalent

B Result is between MDL and RL

679

90

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DXRFHCMatrix: Water Units: ug/L Prep Date: 3/23/01 Prep Batch: 1081287Weight: 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	2.5	2.5	100.4		80-120	1	CVAA	3/23/01	10:04

Comments: Lot #: C1C210184

Version 4.10.2

U Result is less than the MDL

Form 7 Equivalent

B Result is between MDL and RL

GENERAL CHEMISTRY SUMMARY

679

92

UXB INTERNATIONAL

Client Sample ID: DF/24-B/1079/IDW/006

General Chemistry

Lot-Sample #...: C1C210184-001 Work Order #...: DXPK3 Matrix.....: WATER
Date Sampled...: 03/20/01 Date Received...: 03/21/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.6		No Units	SW846 9040	03/21/01	1080359
		Dilution Factor: 1		MS Run #.....: 1080197		
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/26/01	1085156
		Dilution Factor: 1		MS Run #.....: 1085051		
Flashpoint	>201		deg F	SW846 1010	03/21/01	1080356
		Dilution Factor: 1		MS Run #.....: 1080194		
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	03/27/01	1086345
		Dilution Factor: 1		MS Run #.....: 1086171		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C1C210184

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	Work Order #: DXVE91AA 10.0	ug/L	MB Lot-Sample #: SW846 9012A	C1C230000-161 03/26/01	1085156
		Dilution Factor: 1				
Total Sulfide	ND	Work Order #: DX16R1AA 1.0	mg/L	MB Lot-Sample #: MCAWW 376.1	C1C270000-345 03/27/01	1086345
		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 #...: C1C210184

Matrix.....: WATER

<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 #: DXP241AA (85 - 115)	LCS Lot-Sample#: C1C210000-359 SW846 9040	03/21/01	1080359
		Dilution Factor: 1			
Cyanide, Total	101	Work Order #: DXVE91AC (85 - 115)	LCS Lot-Sample#: C1C230000-161 SW846 9012A	03/26/01	1085156
		Dilution Factor: 1			
Flashpoint	100	Work Order #: DXP071AA (85 - 115)	LCS Lot-Sample#: C1C210000-356 SW846 1010	03/21/01	1080356
		Dilution Factor: 1			
Total Sulfide	95	Work Order #: DX16R1AC (75 - 125)	LCS Lot-Sample#: C1C270000-345 MCAWW 376.1	03/27/01	1086345
		Dilution Factor: 1			

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C1C210184

Matrix.....: WATER

Date Sampled...: 03/21/01

Date Received...: 03/22/01

PARAMETER	PERCENT RECOVERY	RPD	PREPARATION-	PREP
	RECOVERY	LIMITS	ANALYSIS DATE	BATCH #
Cyanide, Total		WO#: DXRKF1CD-MS/DXRKF1CE-MSD	MS Lot-Sample #: C1C220173-002	
	0.0	(75 - 125)	SW846 9012A	03/26/01 1085156
	0.0	(75 - 125) 0.0 (0-20)	SW846 9012A	03/26/01 1085156
		Dilution Factor: 1		
		MS Run #.....: 1085051		
Total Sulfide		WO#: DXRAFLAX-MS/DXRAFLA0-MSD	MS Lot-Sample #: C1C220157-001	
	94	(75 - 125)	MCAWW 376.1	03/27/01 1086345
	94	(75 - 125) 0.0 (0-20)	MCAWW 376.1	03/27/01 1086345
		Dilution Factor: 1		
		MS Run #: 1086171		

NOTE(S) :

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

96

General Chemistry

Matrix.....: WATER

Date Received...: 03/15/01

Dilution Factor:

Initial Wgt/Vol:

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Flashpoint	>201	>201	deg F	0.0	(0-20)	SD Lot-Sample #: SW846 1010	C1C150304-001 03/21/01	1080356
Dilution Factor: 1				MS Run Number... 1080194				

97

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C1C210184

Work Order #...: DXM5E-SMP
DXM5E-DUP

Matrix.....: WATER

Date Sampled...: 03/20/01

Date Received...: 03/20/01

% Moisture.....: 100

Dilution Factor:

Initial Wgt/Vol:

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.1	7.1	No Units	0.99	(0-20)	SD Lot-Sample #: H1C200237-001 SW846 9040	03/21/01	1080359
Dilution Factor. 1				MS Run Number.: 1080197				

679 98

GC/MS VOLATILE DATA

**GC/MS VOLATILE
QC SUMMARY**

673 100

SW846 8260B SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C210184

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	DF/24-B/1079/IDW/006	94	102	100	96	00
02	DF/24-B/1079/IDW/006 RE-1	91	99	97	93	00
03	INTRA-LAB QC	92	99	98	92	00
04	METHOD BLK. DXRPF1AA	96	102	99	93	00
05	LCS DXRPF1AC	96	102	103	95	00
06	LAB MS/MSD D	96	103	103	95	00
07	LAB MS/MSD S	96	106	103	99	00

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

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

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIIT

SDG No:

Lot #: C1C220000

WO #: DXRPFLAC

BATCH: 1081349

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	49.0	98	65 - 119	
Trichloroethene	50.0	49.8	100	80 - 122	
Benzene	50.0	49.1	98	79 - 116	
Toluene	50.0	49.5	99	76 - 119	
Chlorobenzene	50.0	47.3	95	81 - 115	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

679 102

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPTIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C220149

WO #: DXQ611AC

BATCH: 1081349

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	50.0		52.6	105	57 - 138	
Trichloroethene	50.0		52.7	105	58 - 141	
Benzene	50.0		51.4	103	73 - 123	
Toluene	50.0		50.5	101	67 - 129	
Chlorobenzene	50.0		47.6	95	70 - 122	

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: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C220149

WO #: DXQ611AD

BATCH: 1081349

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
1,1-Dichloroethene	50.0	51.1	102	2.9	20	57 - 138	
Trichloroethene	50.0	51.5	103	2.3	20	58 - 141	
Benzene	50.0	50.0	100	2.7	20	73 - 123	
Toluene	50.0	51.5	103	2.0	20	67 - 129	
Chlorobenzene	50.0	48.9	98	2.7	20	70 - 122	

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:

679 104

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXRPF1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: 6032205.D

Lot Number: C1C210184

Date Analyzed: 03/22/01

Time Analyzed: 11:39

Matrix: WATER

Date Extracted: 03/22/01

GC Column: RTX-624 ID: .18

Extraction Method: 5030

Instrument ID: HP6

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/24-B/1079/IDW/006	DXPK31AA	6032211.D	03/22/01	14:16
02	DF/24-B/1079/IDW/006	DXPK32AA	6032213.D	03/22/01	15:17
03	INTRA-LAB QC	DXQ611AA	6032207.D	03/22/01	12:37
04	LAB MS/MSD	DXQ611AC S	6032208.D	03/22/01	13:01
05	LAB MS/MSD	DXQ611AD D	6032209.D	03/22/01	13:26
06	CHECK SAMPLE	DXRPF1AC C	6032206.D	03/22/01	12:08
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

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

679 105

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Lab File ID: BF60322

BFB Injection Date: 03/22/01

Instrument ID: HP6

BFB Injection Time: 0627

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	19.9
75	30.0 - 60.0% of mass 95	47.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 100.0% of mass 95	83.0
175	5.0 - 9.0% of mass 174	6.0 (7.2)1
176	95.0 - 101.0% of mass 174	79.5 (95.9)1
177	5.0 - 9.0% of mass 176	5.4 (6.8)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	VSTD5	VSTD5	1A60322	03/22/01	0654
02	VSTD20	VSTD20	1B60322	03/22/01	0718
03	VSTD50	VSTD50	1C60322	03/22/01	0747
04	VSTD100	VSTD100	1D60322	03/22/01	0812
05	VSTD200	VSTD200	1E60322	03/22/01	0838
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

679 106 5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C210184

Lab File ID: BF60322

BFB Injection Date: 03/22/01

Instrument ID: HP6

BFB Injection Time: 0627

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	19.9
75	30.0 - 60.0% of mass 95	47.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 100.0% of mass 95	83.0
175	5.0 - 9.0% of mass 174	6.0 (7.2)1
176	95.0 - 101.0% of mass 174	79.5 (95.9)1
177	5.0 - 9.0% of mass 176	5.4 (6.8)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	VSTD5	VSTD5	1A60322	03/22/01	0654
02	VSTD20	VSTD20	1B60322	03/22/01	0718
03	VSTD50	VSTD50	1C60322	03/22/01	0747
04	VSTD100	VSTD100	1D60322	03/22/01	0812
05	VSTD200	VSTD200	1E60322	03/22/01	0838
06	INTRA-LAB BL	DXRPF1AA	6032205	03/22/01	1139
07	INTRA-LAB CH	DXRPF1AC	6032206	03/22/01	1208
08	DF/24-B/1079	DXPK31AA	6032211	03/22/01	1416
09	DF/24-B/1079	DXPK32AA	6032213	03/22/01	1517
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

679 107

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C210184

Lab File ID (Standard): 1C60322

Date Analyzed: 03/22/01

Instrument ID: HP6

Time Analyzed: 0747

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DCB) AREA #	RT #	IS3 AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	182000	9.74	314312	12.05	764866	6.61
UPPER LIMIT	364000	10.24	628624	12.55	1529732	7.11
LOWER LIMIT	91000	9.24	157156	11.55	382433	6.11
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	192302	9.73	302880	12.05	812576	6.61
02 INTRA-LAB CH	189633	9.74	297242	12.05	848068	6.61
03 DF/24-B/1079	178144	9.73	286802	12.05	785347	6.61
04 DF/24-B/1079	172961	9.74	276348	12.05	768976	6.61
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 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 VOLATILE
SAMPLE DATA**

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER Lab Sample ID: C1C210184 001

Method: SW846 8260B

 Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/21/01

Work Order: DXPK31AA Date Extracted: 03/22/01

Dilution factor: 50 Date Analyzed: 03/22/01

Moisture %: NA

 QC Batch: 1081349

Client Sample Id: DF/24-B/1079/IDW/006

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	440	J
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	230	J
78-93-3	2-Butanone	1000	U
75-15-0	Carbon disulfide	250	U
56-23-5	Carbon tetrachloride	250	U
108-90-7	Chlorobenzene	250	U
124-48-1	Dibromochloromethane	250	U
75-00-3	Chloroethane	500	U
67-66-3	Chloroform	10000	E
74-87-3	Chloromethane	660	
75-34-3	1,1-Dichloroethane	250	U
107-06-2	1,2-Dichloroethane	250	U
75-35-4	1,1-Dichloroethene	250	U
540-59-0	1,2-Dichloroethene (total)	250	U
78-87-5	1,2-Dichloropropane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
100-41-4	Ethylbenzene	250	U
591-78-6	2-Hexanone	1000	U
75-09-2	Methylene chloride	66	J
108-10-1	4-Methyl-2-pentanone	1000	U
100-42-5	Styrene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
127-18-4	Tetrachloroethene	100	J
108-88-3	Toluene	250	U

679 110

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/21/01

Work Order: DXPK31AA

Date Extracted: 03/22/01

Dilution factor: 50

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

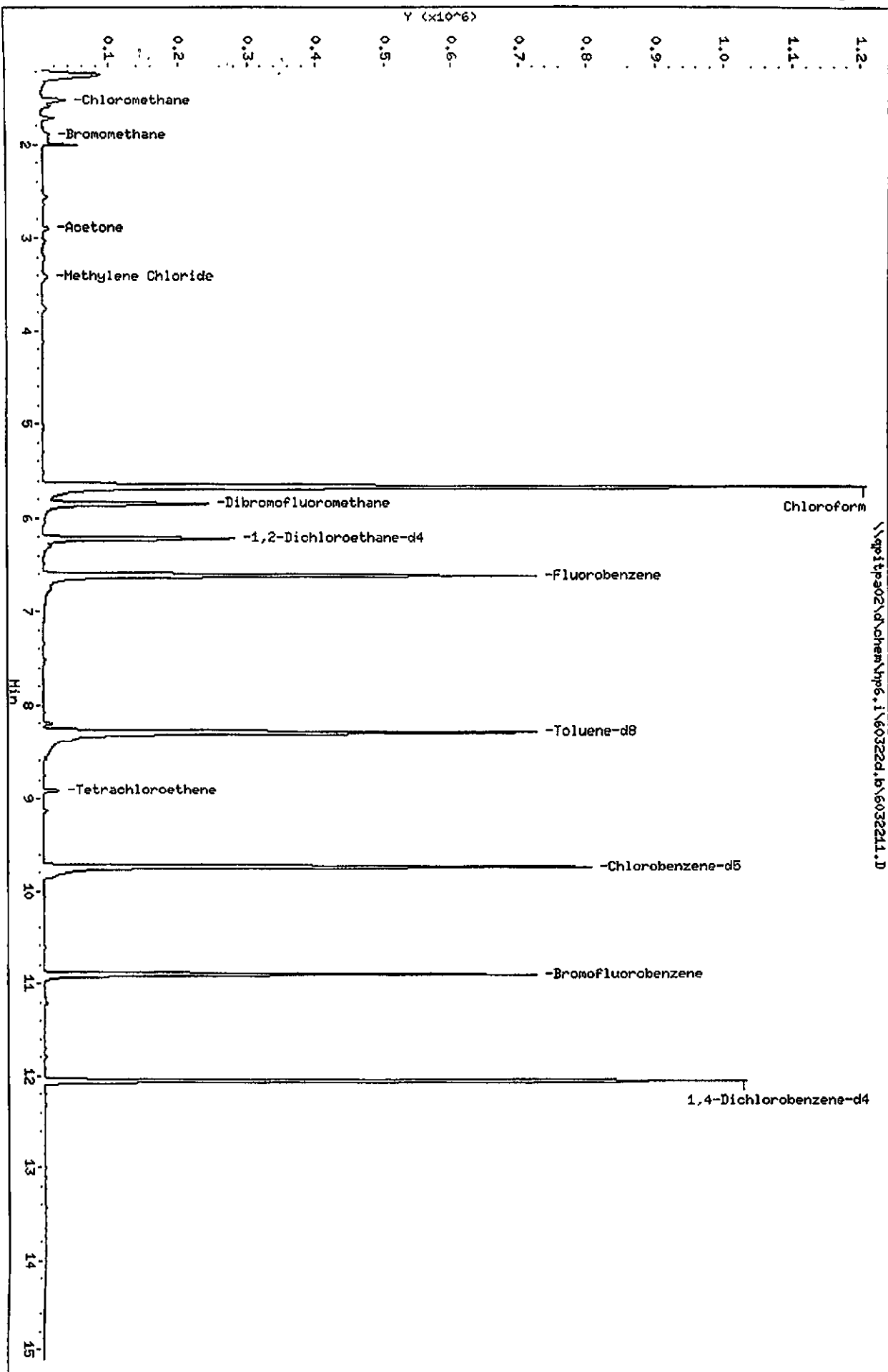
Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
79-01-6	Trichloroethene	250	U
75-01-4	Vinyl chloride	500	U
1330-20-7	Xylenes (total)	250	U

FORM I

Data File: \\ppltpa02\chem\hpe.1\60322d.b\603221.D
Date: 22-MAR-2004 14:16
Client ID: DF/24-B/1079/IDM/00
Sample Info: cdc210184-001 (m1/50ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hpe.i
Operator: 16328
Column diameter: 0.20



Data File: \\qpitpa02\d\chem\hp6.i\60322d.b\6032211.D
 Report Date: 23-Mar-2001 08:07

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60322d.b\6032211.D
 Lab Smp Id: DXPK31AA Client Smp ID: DF/24-B/1079/IDW/00
 Inj Date : 22-MAR-2001 14:16
 Operator : 16328 Inst ID: hp6.i
 Smp Info : c1c210184-001 (1ml/50ml)/5ml
 Misc Info : dxpk31aa,60322d.b,8260bh2o.m
 Comment :
 Method : \\qpitpa02\d\chem\hp6.i\60322d.b\8260bh2o.m
 Meth Date : 22-Mar-2001 09:14 dudeckk Quant Type: ISTD
 Cal Date : 22-MAR-2001 08:38 Cal File: 1E60322.D
 Als bottle: 33
 Dil Factor: 50.00000
 Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
 Target Version: 4.04
 Processing Host: PITPC077

K's
3/23/01

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

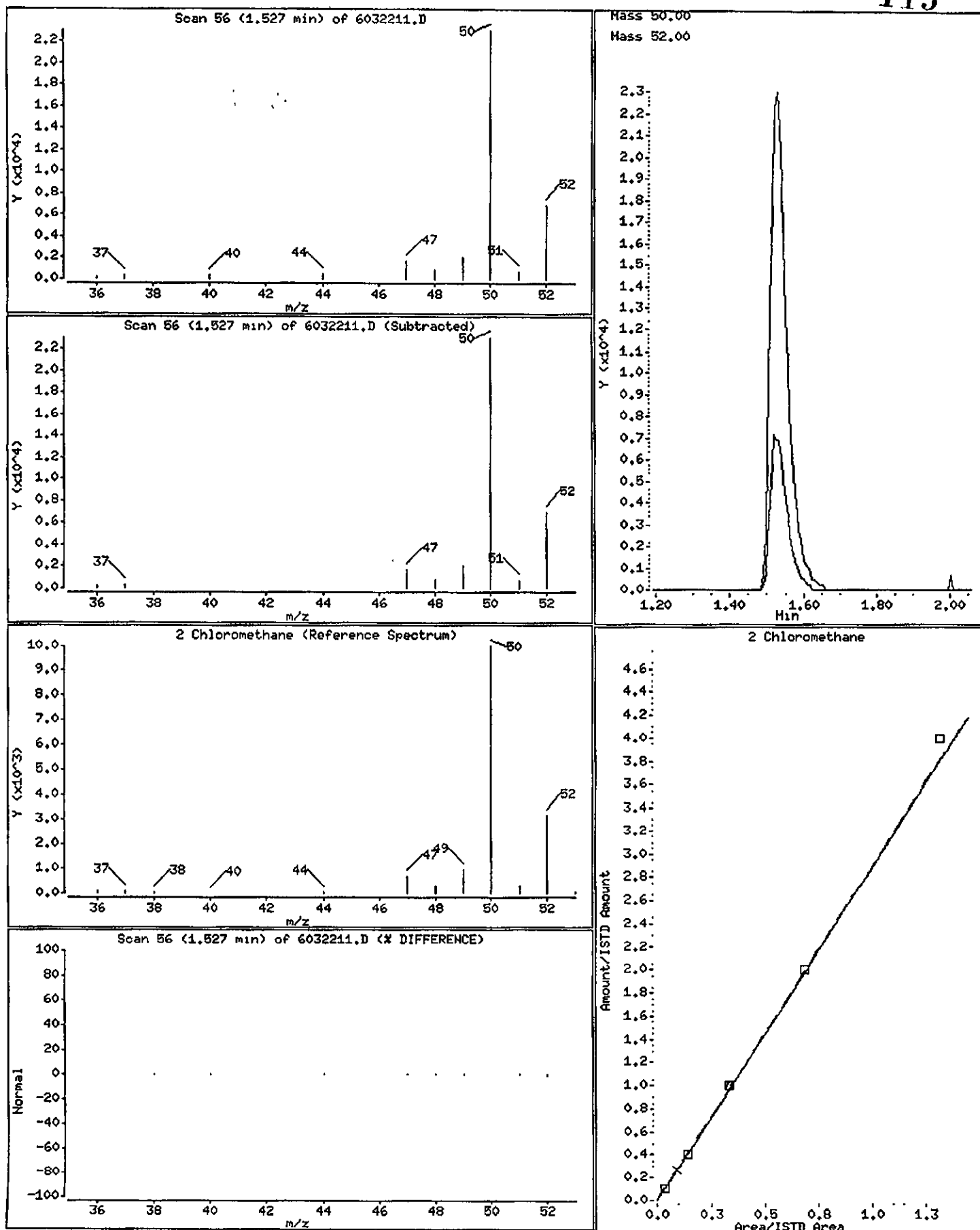
Name	Value	Description
DF	50.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.612	6.609	(1.000)	785347	250.000	
* 69 Chlorobenzene-d5	119	9.733	9.742	(1.000)	178144	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.051	12.053	(1.000)	286802	250.000	
\$ 39 Dibromofluoromethane	113	5.846	5.848	(0.884)	177400	240.984	48.20
\$ 43 1,2-Dichloroethane-d4	65	6.217	6.219	(0.940)	225132	254.562	50.91
\$ 59 Toluene-d8	98	8.291	8.294	(0.852)	703765	249.152	49.83
\$ 80 Bromofluorobenzene	95	10.901	10.910	(1.120)	254562	235.717	47.14
2 Chloromethane	50	1.527	1.553	(0.231)	72797	66.3531	663.5
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	1.898	1.900	(0.287)	5834	23.2661	232.7
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
1 Dichlorodifluoromethane	85	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
13 Acetone	43	2.902	2.928	(0.439)	17149	43.9790	439.8
15 Carbon Disulfide	76	Compound Not Detected.					

679 113

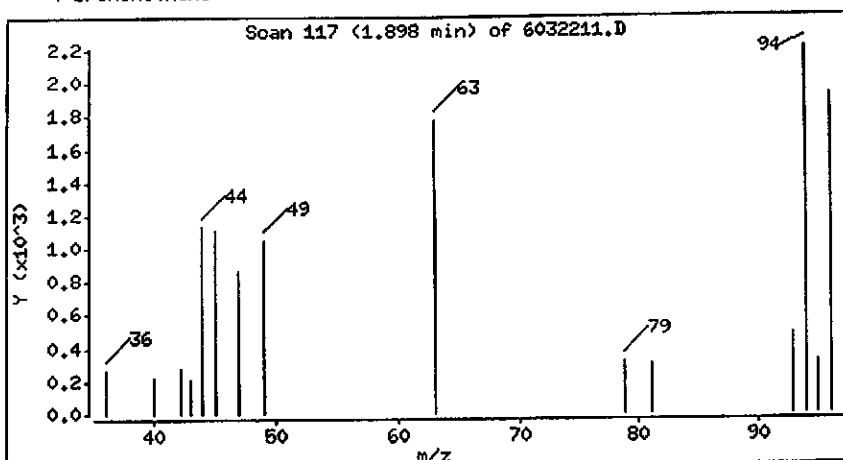
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
18 Methylene Chloride	84	3.419	3 415	(0.517)	4751	6.61913	66.19
19 trans-1,2-Dichloroethene	96	Compound Not Detected.					
20 Methyl tert-butyl ether	73	Compound Not Detected					
24 1,1-Dichloroethane	63	Compound Not Detected					
27 2,2-Dichloropropane	77	Compound Not Detected.					
28 cis-1,2-dichloroethene	96	Compound Not Detected					
M 29 1,2-Dichloroethene (total)	96	Compound Not Detected					
30 Bromochloromethane	128	Compound Not Detected					
31 2-Butanone	43	Compound Not Detected.					
37 Chloroform	83	5.663	5.660	(0.856)	1185203	1008.61	10090
38 1,1,1-Trichloroethane	97	Compound Not Detected.					
40 1,1-Dichloropropene	75	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.					
49 1,2-Dichloropropane	63	Compound Not Detected.					
50 Dibromomethane	93	Compound Not Detected.					
53 Bromodichloromethane	83	Compound Not Detected.					
57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
58 4-Methyl-2-Pentanone	43	Compound Not Detected.					
60 Toluene	91	Compound Not Detected.					
61 trans-1,3-Dichloropropene	75	Compound Not Detected					
63 1,3-Dichloropropane	76	Compound Not Detected					
64 1,1,2-Trichloroethane	97	Compound Not Detected					
65 Tetrachloroethene	164	8.912	8.914	(0.916)	6074	10.0735	100.7
66 2-Hexanone	43	Compound Not Detected.					
67 Dibromochloromethane	129	Compound Not Detected.					
68 1,2-Dibromoethane	107	Compound Not Detected.					
70 Chlorobenzene	112	Compound Not Detected.					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 Ethylbenzene	106	Compound Not Detected.					
73 m + p-Xylene	106	Compound Not Detected.					
74 Xylene-o	106	Compound Not Detected.					
M 75 Xylenes (total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected					
78 Isopropylbenzene	105	Compound Not Detected					
79 Bromobenzene	156	Compound Not Detected.					
81 n-Propylbenzene	120	Compound Not Detected					
82 2-Chlorotoluene	126	Compound Not Detected					
83 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
84 1,2,3-Trichloropropane	110	Compound Not Detected.					
85 4-Chlorotoluene	126	Compound Not Detected.					
86 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
87 tert-Butylbenzene	119	Compound Not Detected.					
88 1,2,4-Trimethylbenzene	105	Compound Not Detected					

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ng)	FINAL (UG/L)
*****	***	**	*****	*****	*****		*****	*****
89 sec-Butylbenzene	105				Compound Not Detected			
90 4-Isopropyltoluene	119				Compound Not Detected.			
91 1,3-Dichlorobenzene	146				Compound Not Detected			
93 1,4-Dichlorobenzene	146				Compound Not Detected.			
94 n-Butylbenzene	91				Compound Not Detected.			
95 1,2-Dichlorobenzene	146				Compound Not Detected			
96 1,2-Dibromo-3-chloropropane	157				Compound Not Detected			
97 1,2,4-Trichlorobenzene	180				Compound Not Detected			
98 Hexachlorobutadiene	225				Compound Not Detected.			
99 Naphthalene	128				Compound Not Detected.			
100 1,2,3-Trichlorobenzene	180				Compound Not Detected.			

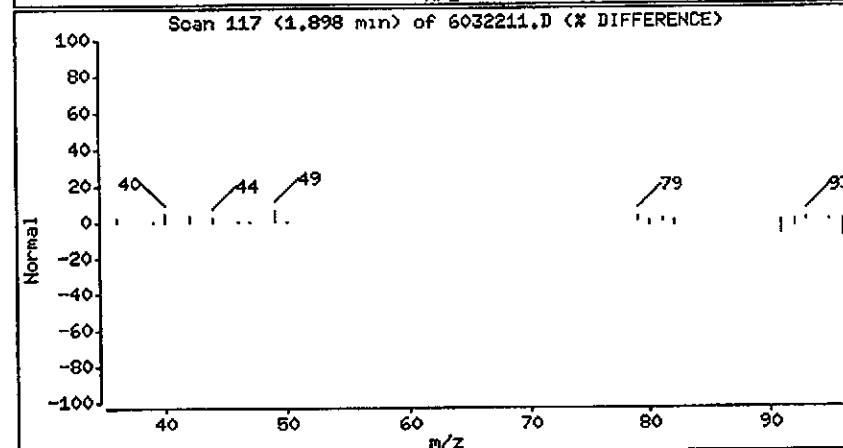
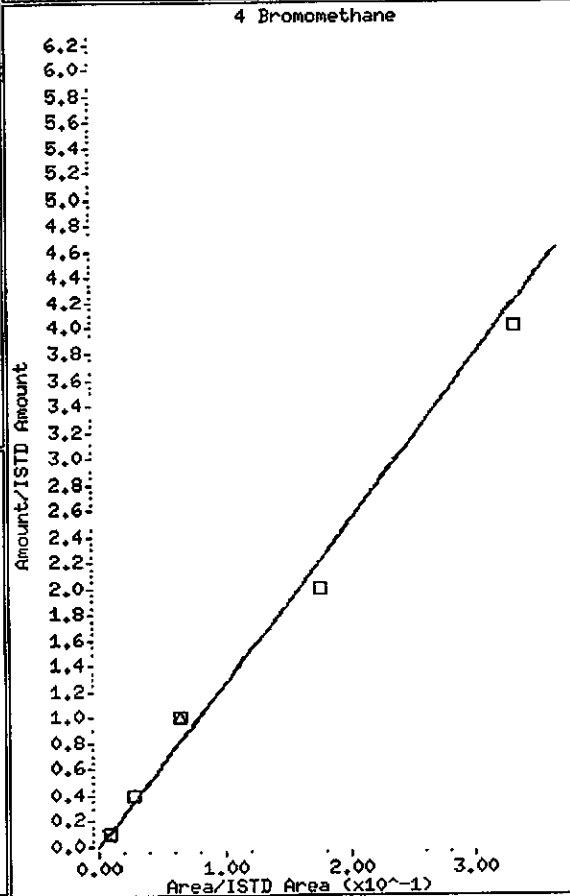
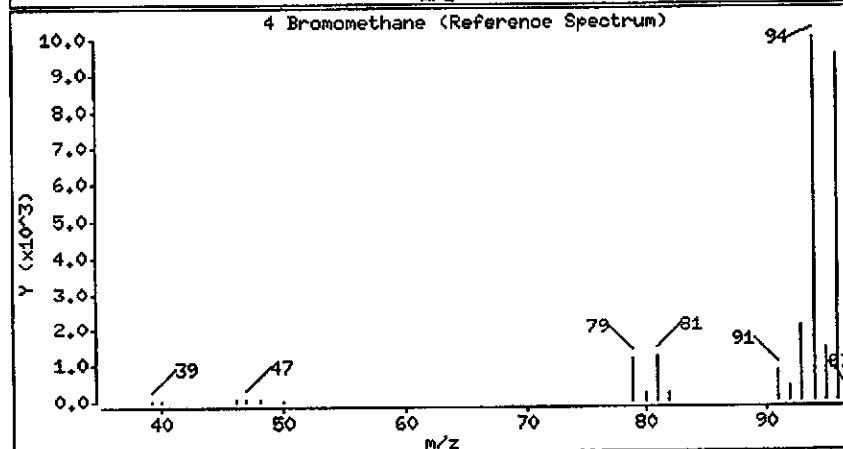
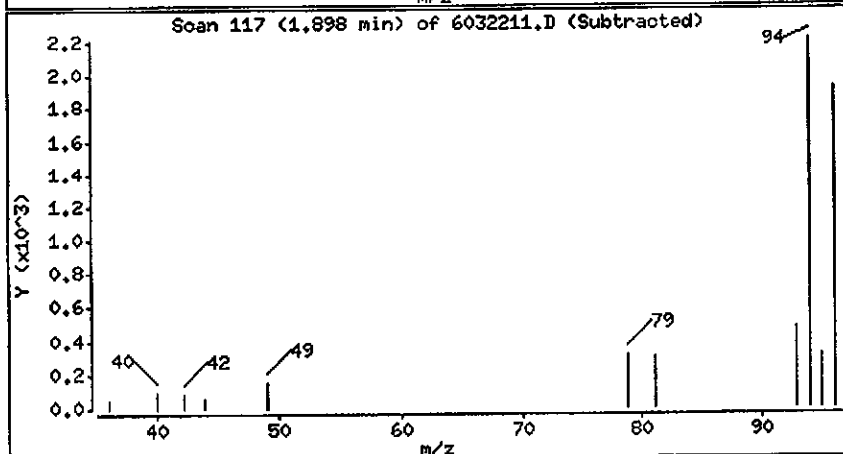
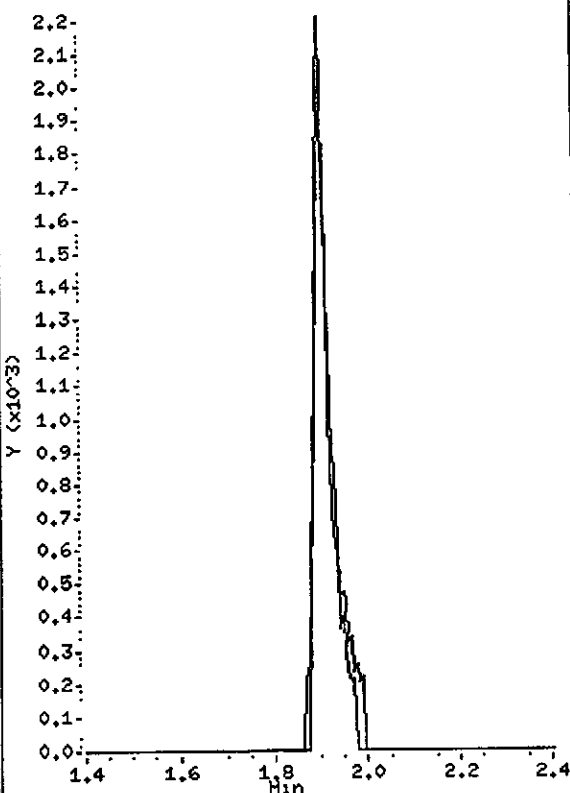


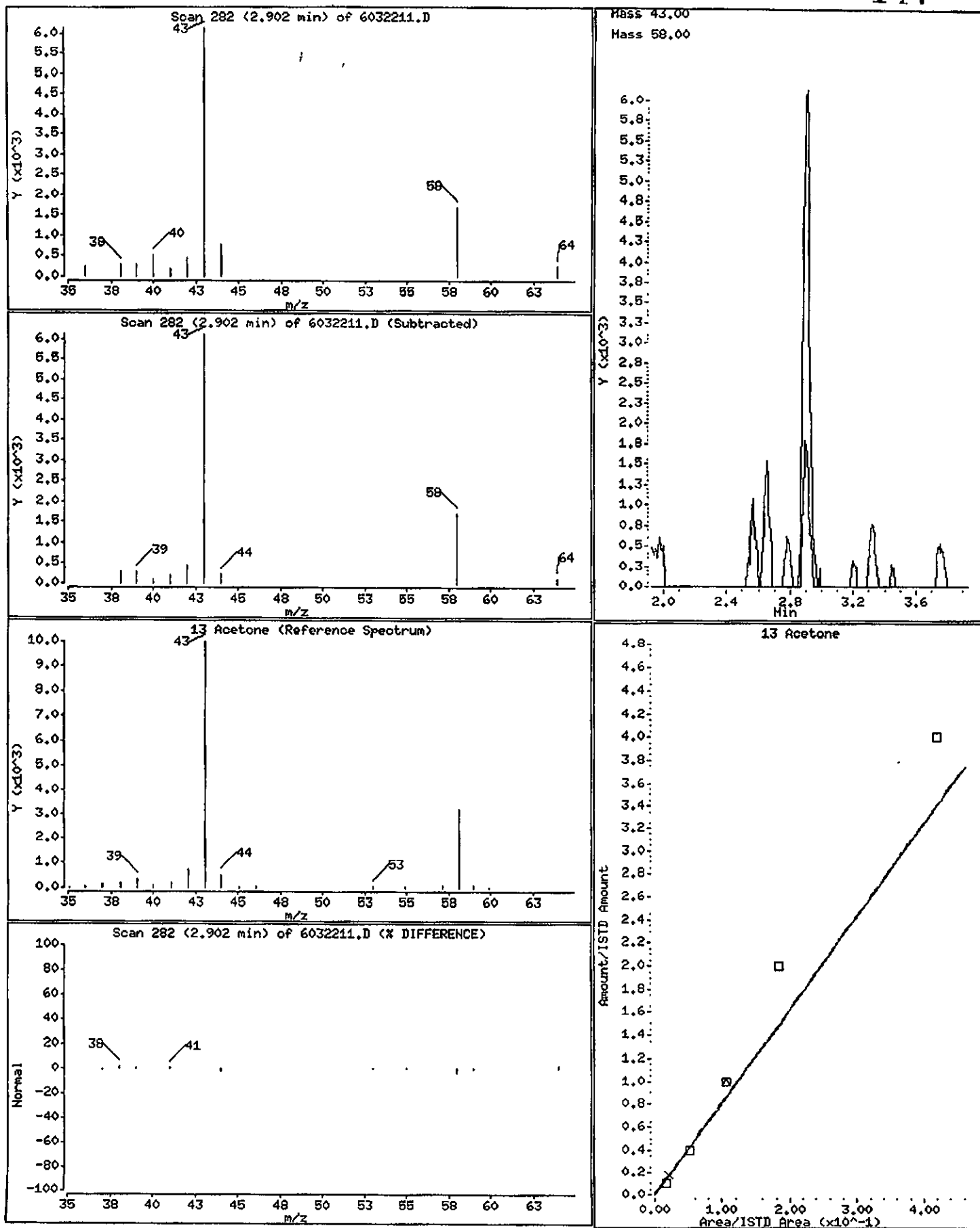
679 116

4 Bromomethane

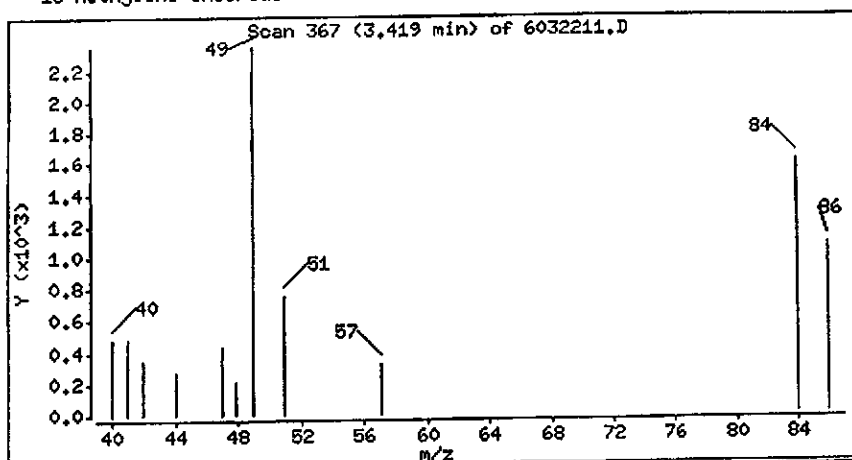


Mass 94.00
Mass 96.00

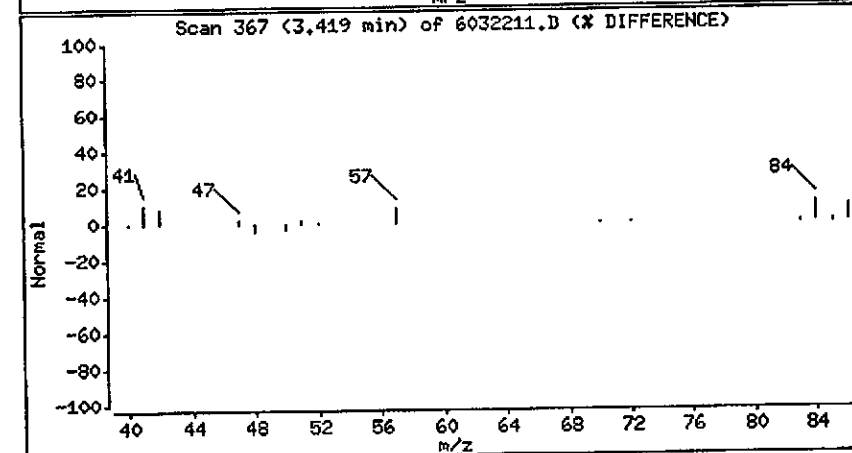
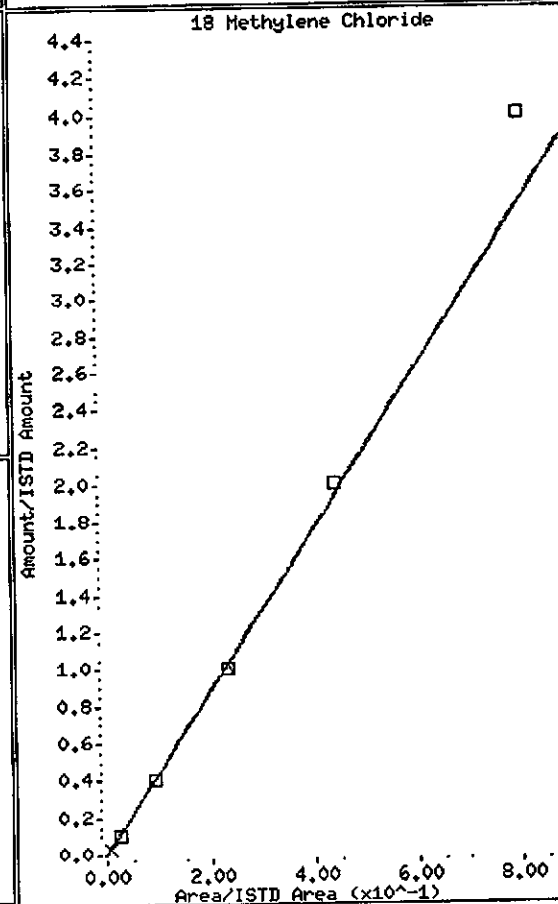
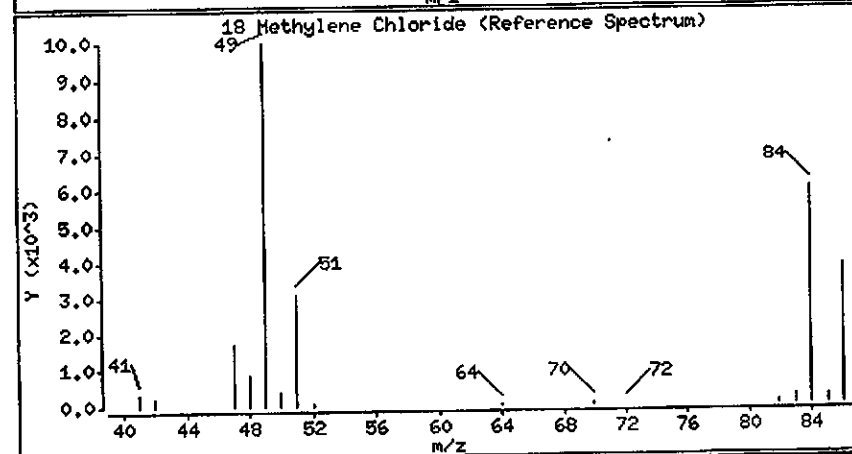
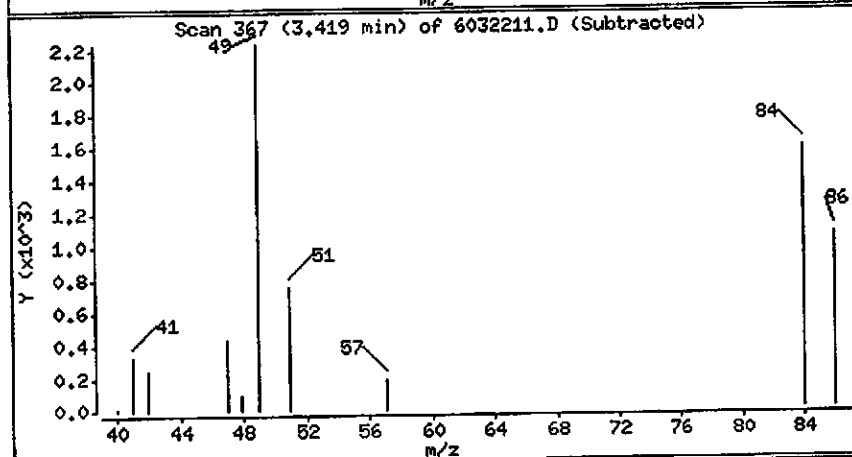
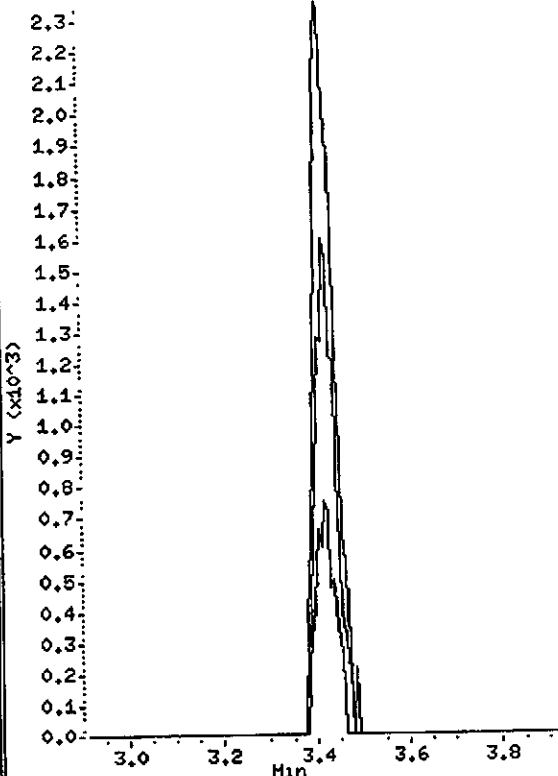


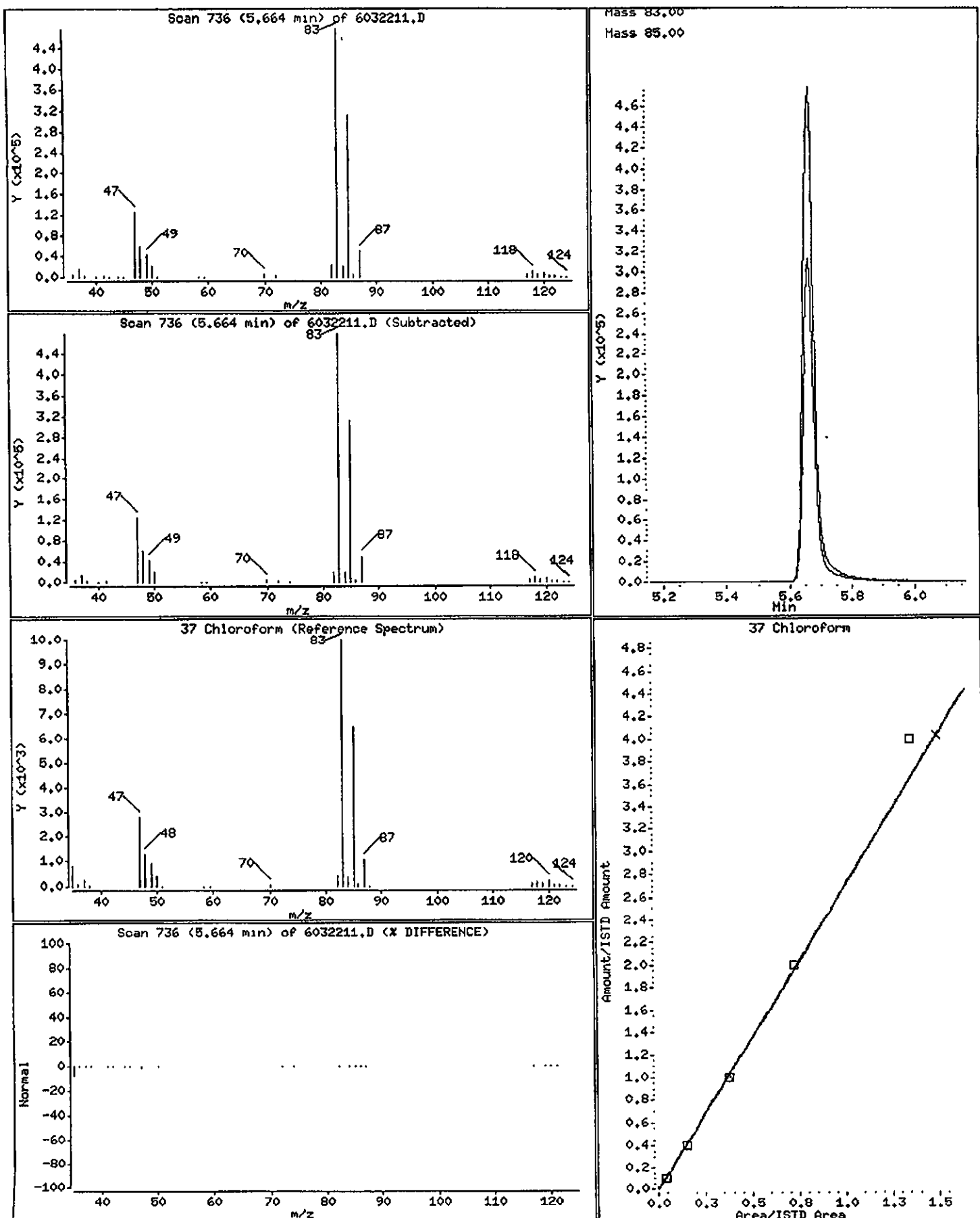


18 Methylene Chloride

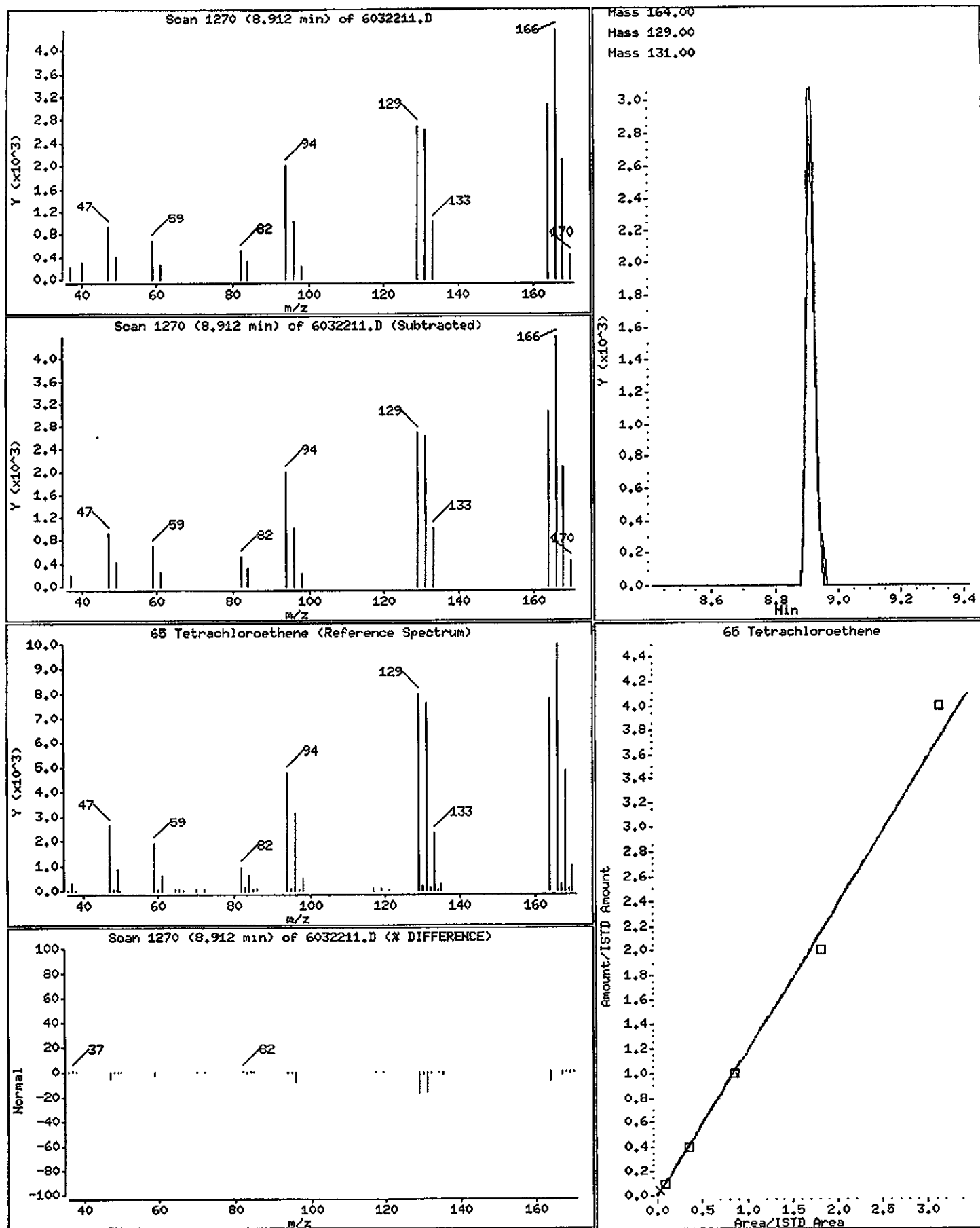


Mass 84.00
Mass 49.00
Mass 81.00





65 Tetrachloroethene



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

Matrix: (soil/water) WATER Lab Sample ID: C1C210184 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/21/01

Work Order: DXPK32AA

Date Extracted: 03/22/01

Dilution factor: 100

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

Client Sample Id: DF/24-B/1079/IDW/006 -RE 1

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	400	J
71-43-2	Benzene	500	U
75-27-4	Bromodichloromethane	500	U
75-25-2	Bromoform	500	U
74-83-9	Bromomethane	210	J
78-93-3	2-Butanone	2000	U
75-15-0	Carbon disulfide	500	U
56-23-5	Carbon tetrachloride	500	U
108-90-7	Chlorobenzene	500	U
124-48-1	Dibromochloromethane	500	U
75-00-3	Chloroethane	1000	U
67-66-3	Chloroform	10000	
74-87-3	Chloromethane	270	J
75-34-3	1,1-Dichloroethane	500	U
107-06-2	1,2-Dichloroethane	500	U
75-35-4	1,1-Dichloroethene	500	U
540-59-0	1,2-Dichloroethene (total)	500	U
78-87-5	1,2-Dichloropropane	500	U
10061-01-5	cis-1,3-Dichloropropene	500	U
10061-02-6	trans-1,3-Dichloropropene	500	U
100-41-4	Ethylbenzene	500	U
591-78-6	2-Hexanone	2000	U
75-09-2	Methylene chloride	500	U
108-10-1	4-Methyl-2-pentanone	2000	U
100-42-5	Styrene	500	U
79-34-5	1,1,2,2-Tetrachloroethane	500	U
127-18-4	Tetrachloroethene	500	U
108-88-3	Toluene	500	U

679 122

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix. (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/21/01

Work Order: DXPK32AA

Date Extracted: 03/22/01

Dilution factor: 100

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

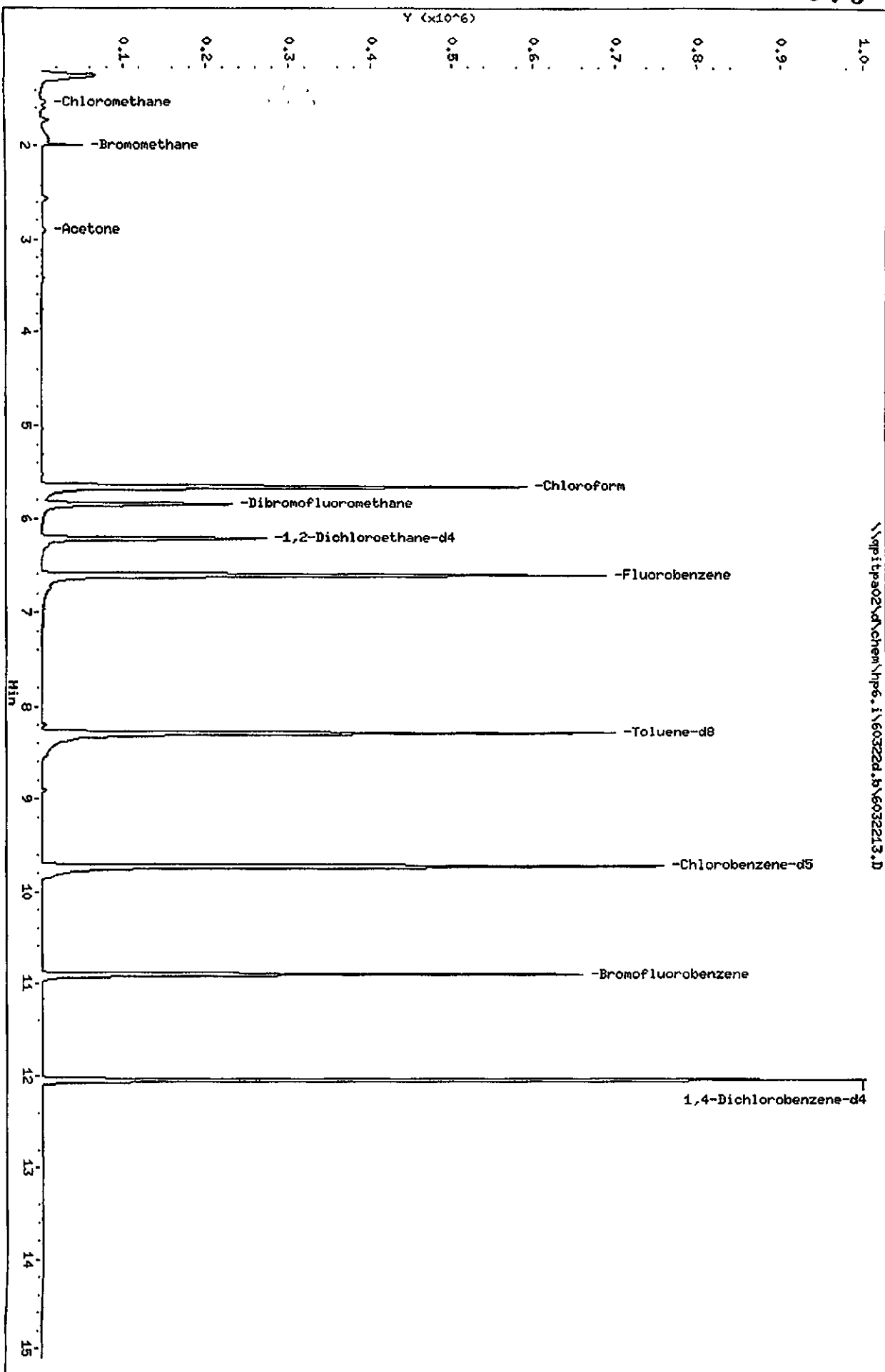
Client Sample Id: DF/24-B/1079/IDW/006 -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-55-6	1,1,1-Trichloroethane	500	U
79-00-5	1,1,2-Trichloroethane	500	U
79-01-6	Trichloroethene	500	U
75-01-4	Vinyl chloride	1000	U
1330-20-7	Xylenes (total)	500	U

FORM I

Data File: \\ppitpa02\chem\hpe.1\60322d.b\6032213.D
Date: 22-MAR-2001 15:17
Client ID:
Sample Info: c1a210184-001 (1ml/100ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hpe.i
Operator: 16328
Column diameter: 0.20



Data File: \\qpitpa02\d\chem\hp6.i\60322d.b\6032213.D
 Report Date: 23-Mar-2001 08:08

Page 1

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60322d.b\6032213.D

Lab Smp Id: dxpk32aa

Inj Date : 22-MAR-2001 15:17

Operator : 16328

Inst ID: hp6.i

Smp Info : c1c210184-001 (1ml/100ml)/5ml

Misc Info : dxpk32aa,60322d.b,8260bh2o.m

Comment :

Method : \\qpitpa02\d\chem\hp6.i\60322d.b\8260bh2o.m

Meth Date : 22-Mar-2001 09:14 dudeckk

Quant Type: ISTD

Cal Date : 22-MAR-2001 08:38

Cal File: 1E60322.D

Als bottle: 35

Dil Factor: 100.00000

Integrator: HP RTE

Compound Sublist: 4-dwlistw.sub

Target Version: 4.04

Processing Host: PITPC077

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

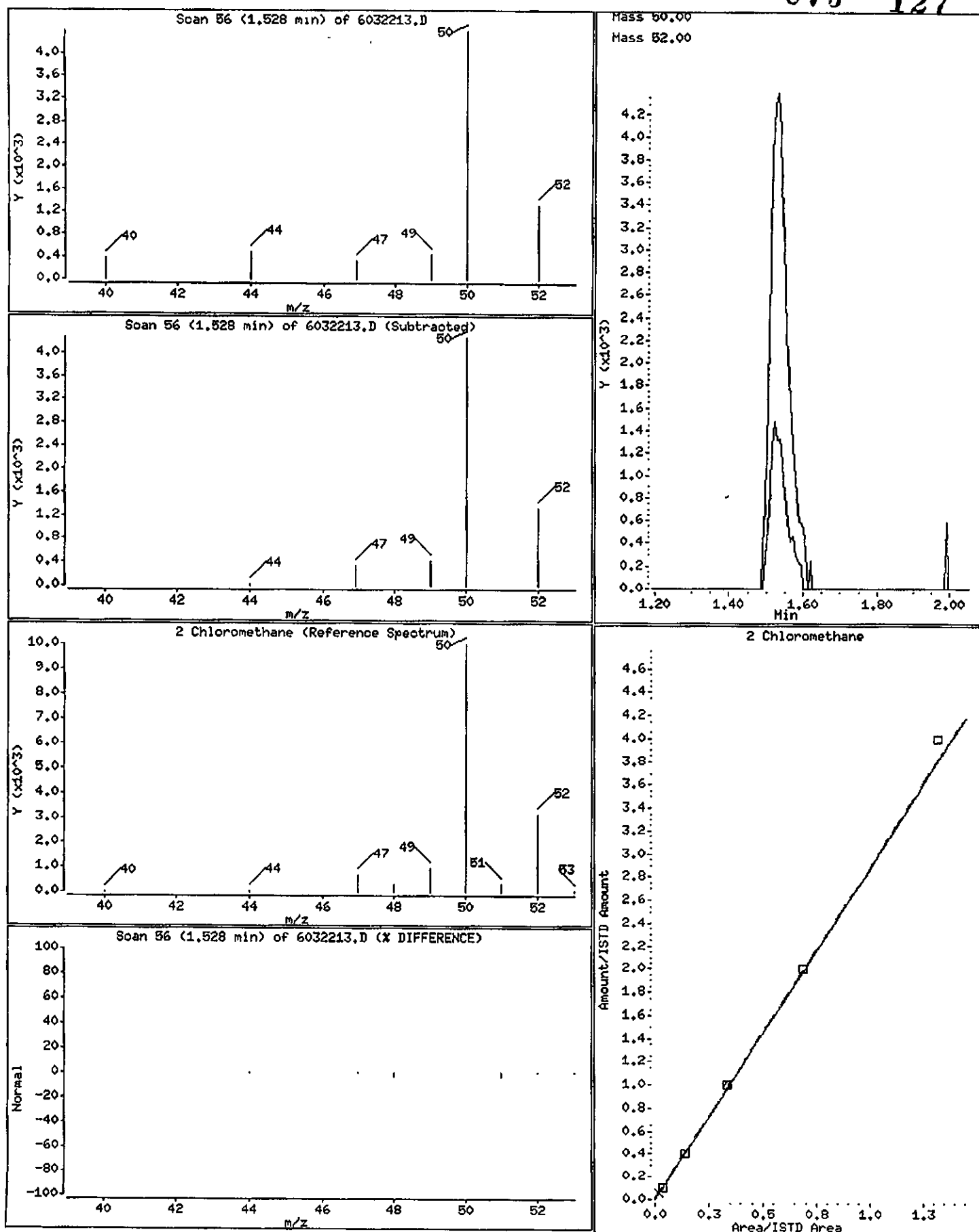
Name	Value	Description
DF	100.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.614	6.609	(1.000)	768976	250.000		
* 69 Chlorobenzene-d5	119	9.735	9.742	(1.000)	172961	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.046	12.053	(1.000)	276348	250.000		
\$ 39 Dibromofluoromethane	113	5.847	5.848	(0.884)	167577	232.487	46.50	
\$ 43 1,2-Dichloroethane-d4	65	6.218	6.219	(0.940)	215369	248.707	49.74	
\$ 59 Toluene-d8	98	8.293	8.294	(0.852)	665404	242.631	48.53	
\$ 80 Bromofluorobenzene	95	10.903	10.910	(1.120)	237827	226.820	45.36	
2 Chloromethane	50	1.528	1.553	(0.231)	14617	13.6068	272.1	
3 Vinyl Chloride	62				Compound Not Detected.			
4 Bromomethane	94	1.899	1.900	(0.287)	2542	10.3534	207.1	
5 Chloroethane	64				Compound Not Detected.			
6 Trichlorofluoromethane	101				Compound Not Detected.			
1 Dichlorodifluoromethane	85				Compound Not Detected.			
12 1,1-Dichloroethene	96				Compound Not Detected.			
13 Acetone	43	2.897	2.928	(0.438)	7546	19.7639	395.3	
15 Carbon Disulfide	76				Compound Not Detected.			

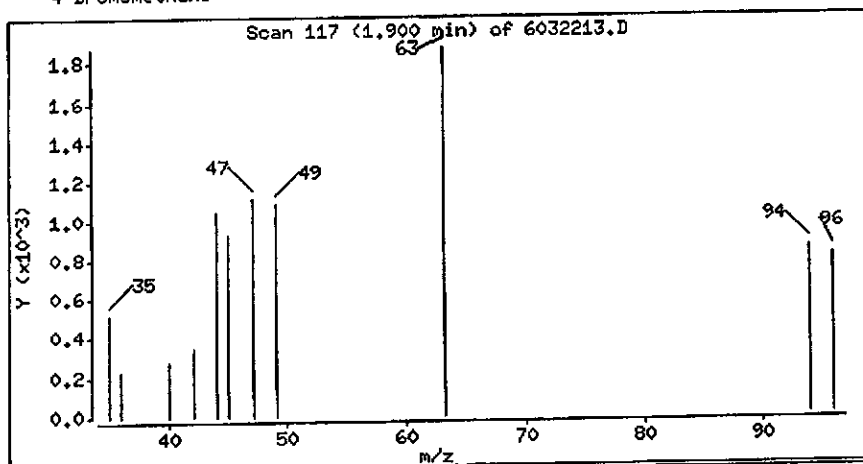
Data File: \\gpitpa02\d\chem\hp6.i\60322d.b\6032213.D
Report Date: 23-Mar-2001 08:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
18 Methylene Chloride	84				Compound Not Detected.		
19 trans-1,2-Dichloroethene	96				Compound Not Detected.		
20 Methyl tert-butyl ether	73				Compound Not Detected.		
24 1,1-Dichloroethane	63				Compound Not Detected.		
27 2,2-Dichloropropane	77				Compound Not Detected.		
28 cis-1,2-dichloroethene	96				Compound Not Detected.		
M 29 1,2-Dichloroethene (total)	96				Compound Not Detected.		
30 Bromochloromethane	128				Compound Not Detected.		
31 2-Butanone	43				Compound Not Detected.		
37 Chloroform	83	5.659	5 660	(0 856)	576657	501.186	10020
38 1,1,1-Trichloroethane	97				Compound Not Detected.		
40 1,1-Dichloropropene	75				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.		
49 1,2-Dichloropropane	63				Compound Not Detected.		
50 Dibromomethane	93				Compound Not Detected.		
53 Bromodichloromethane	83				Compound Not Detected.		
57 cis-1,3-Dichloropropene	75				Compound Not Detected.		
58 4-Methyl-2-Pentanone	43				Compound Not Detected.		
60 Toluene	91				Compound Not Detected.		
61 trans-1,3-Dichloropropene	75				Compound Not Detected.		
63 1,3-Dichloropropane	76				Compound Not Detected.		
64 1,1,2-Trichloroethane	97				Compound Not Detected.		
65 Tetrachloroethene	164				Compound Not Detected.		
66 2-Hexanone	43				Compound Not Detected.		
67 Dibromochloromethane	129				Compound Not Detected.		
68 1,2-Dibromoethane	107				Compound Not Detected.		
70 Chlorobenzene	112				Compound Not Detected.		
71 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
72 Ethylbenzene	106				Compound Not Detected.		
73 m + p-Xylene	106				Compound Not Detected.		
74 Xylene-o	106				Compound Not Detected.		
M 75 Xylenes (total)	106				Compound Not Detected.		
76 Styrene	104				Compound Not Detected.		
77 Bromoform	173				Compound Not Detected.		
78 Isopropylbenzene	105				Compound Not Detected.		
79 Bromobenzene	156				Compound Not Detected.		
81 n-Propylbenzene	120				Compound Not Detected.		
82 2-Chlorotoluene	126				Compound Not Detected.		
83 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
84 1,2,3-Trichloropropane	110				Compound Not Detected.		
85 4-Chlorotoluene	126				Compound Not Detected.		
86 1,3,5-Trimethylbenzene	105				Compound Not Detected.		
87 tert-Butylbenzene	119				Compound Not Detected.		
88 1,2,4-Trimethylbenzene	105				Compound Not Detected.		

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ng)	FINAL (UG/L)
=====	=====	==	=====	=====	=====		=====	=====
89 sec-Butylbenzene	105				Compound Not Detected.			
90 4-Isopropyltoluene	119				Compound Not Detected			
91 1,3-Dichlorobenzene	146				Compound Not Detected			
93 1,4-Dichlorobenzene	146				Compound Not Detected.			
94 n-Butylbenzene	91				Compound Not Detected.			
95 1,2-Dichlorobenzene	146				Compound Not Detected.			
96 1,2-Dibromo-3-chloropropane	157				Compound Not Detected			
97 1,2,4-Trichlorobenzene	180				Compound Not Detected			
98 Hexachlorobutadiene	225				Compound Not Detected.			
99 Naphthalene	128				Compound Not Detected			
100 1,2,3-Trichlorobenzene	180				Compound Not Detected.			

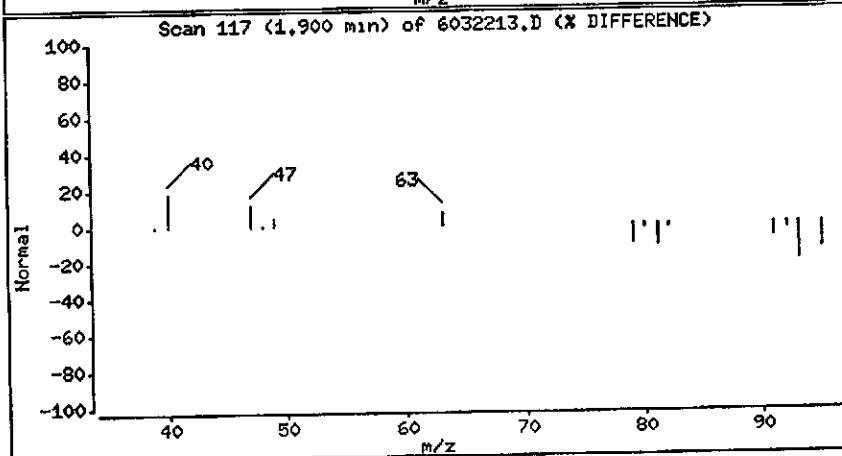
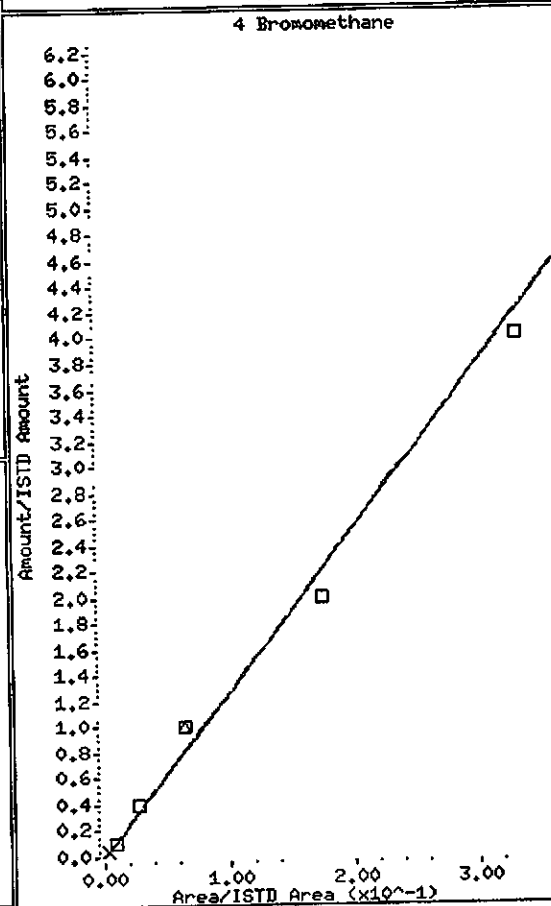
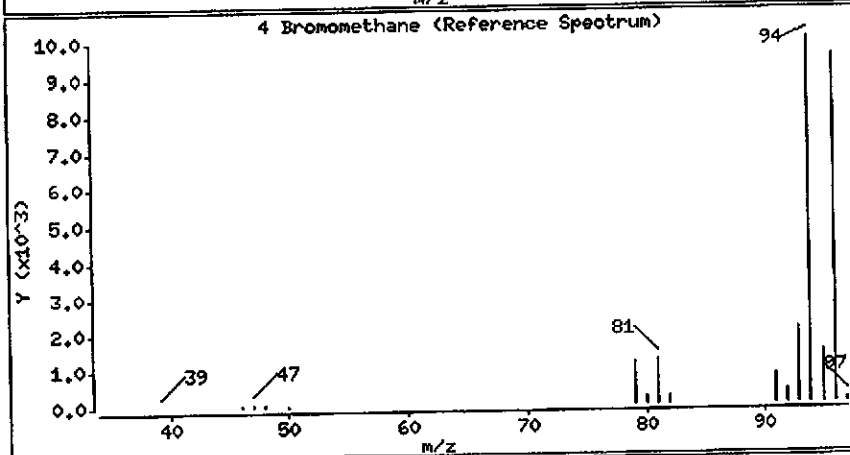
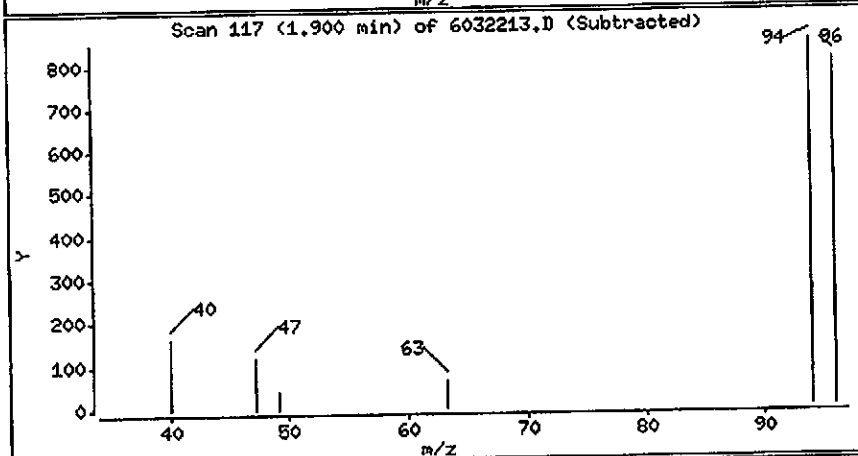
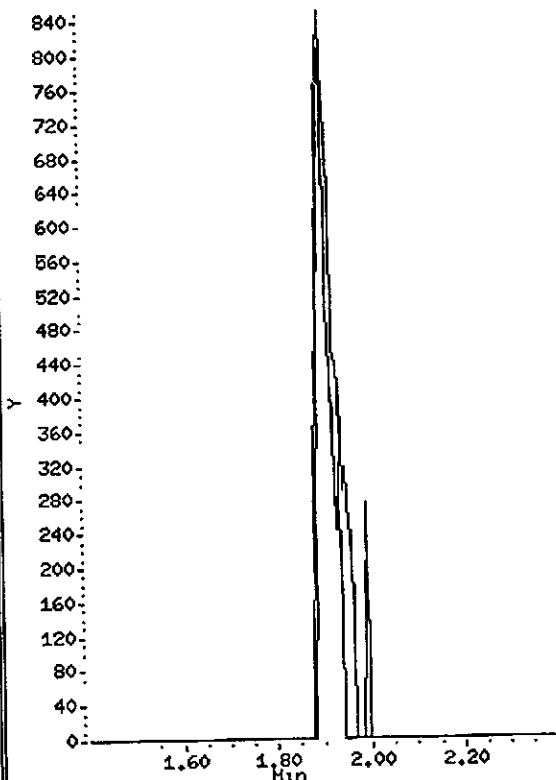


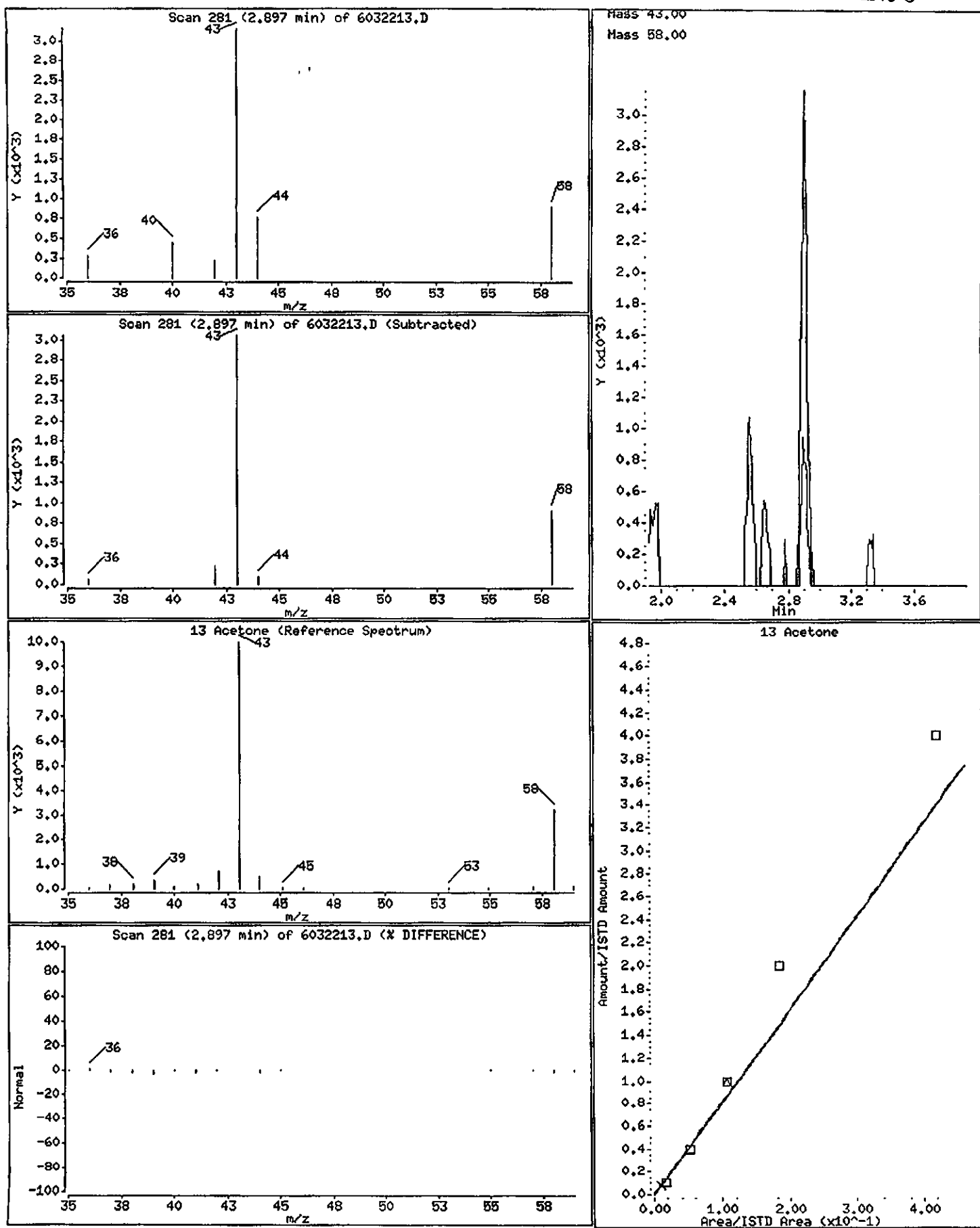
4 Bromomethane



Mass 94.00

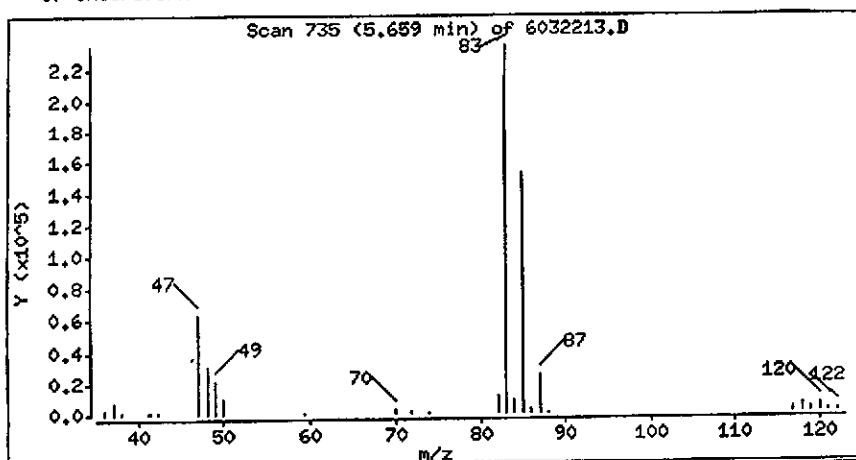
Mass 96.00



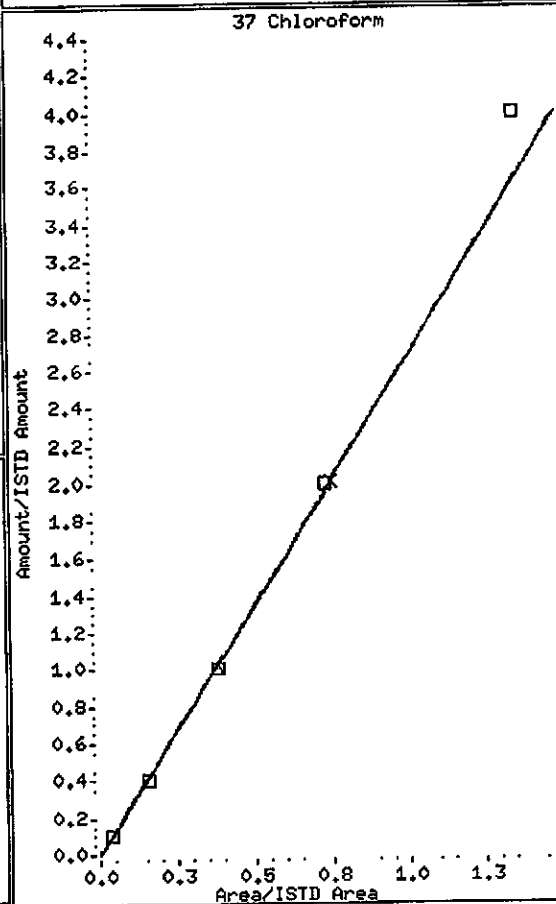
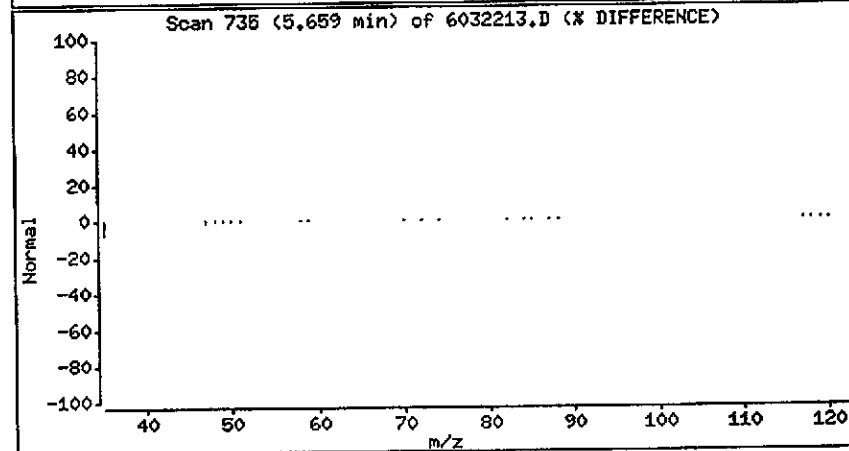
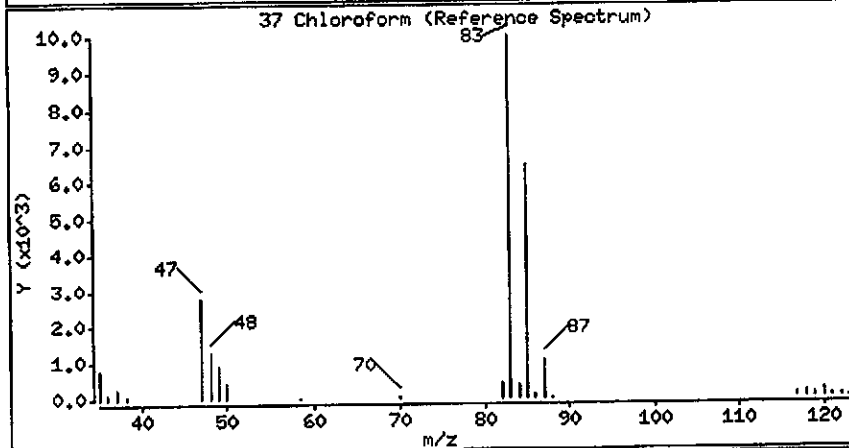
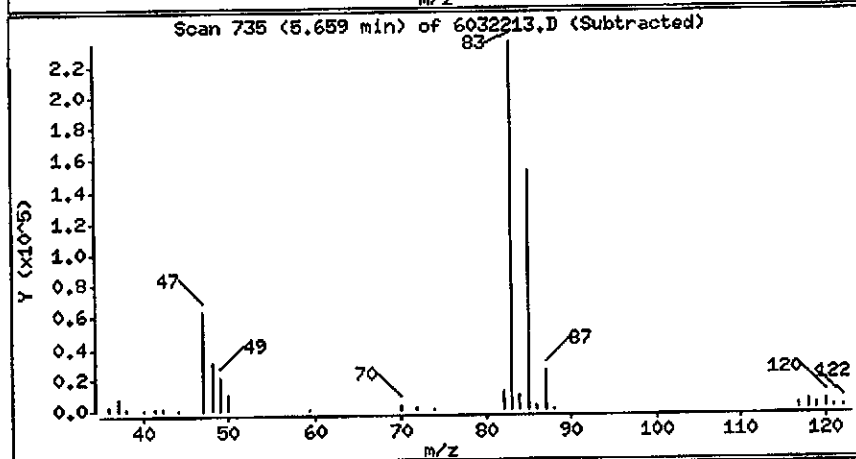
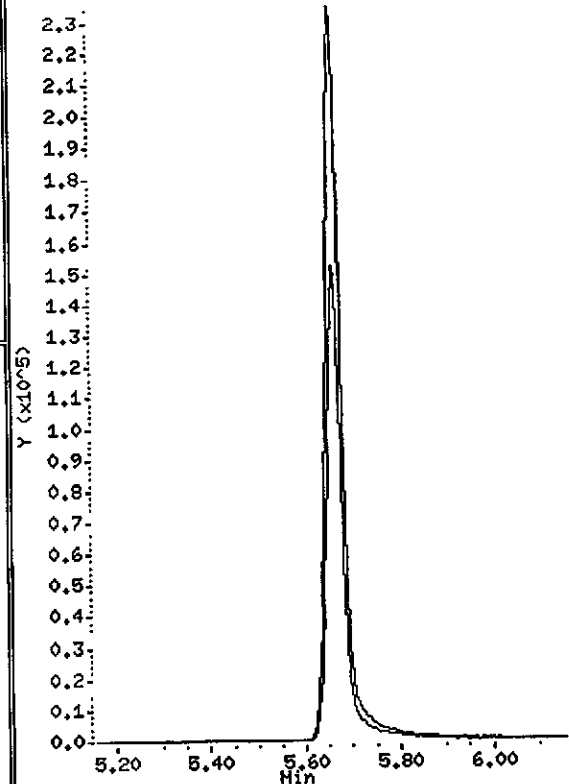


679 130

37 Chloroform



Mass 83.00
Mass 85.00



679 131

**GC/MS VOLATILE
CALIBRATION DATA**

679 132

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP6

Calibration Date(s): 03/22/01 03/22/01

Heated Purge: (Y/N) N

Calibration Time(s): 0654 0838

GC Column: DB 624 ID: 0.20 (mm)

LAB FILE ID:		RRF25 =1A60322		RRF100=1B60322		RRF250=1C60322		RRF500=1D60322		RRF1000=1E60322	
COMPOUND		RRF25	RRF100	RRF250	RRF500	RRF1000	RRF	%	RSD		
=====		=====	=====	=====	=====	=====	=====	=====	=====		
Dichlorodifluoromethane		0.372	0.345	0.329	0.328	0.304	0.336	7.4			
Chloromethane	*	0.384	0.348	0.336	0.346	0.332	0.349	6.0	*		
Vinyl Chloride		0.297	0.288	0.290	0.299	0.288	0.292	1.8			
Bromomethane		0.094	0.069	0.064	0.088	0.084	0.080	15.8			
Chloroethane		0.122	0.100	0.085	0.088	0.078	0.095	17.9			
Trichlorofluoromethane		0.505	0.454	0.199	0.425	0.418	0.400	29.4			
1,1-Dichloroethene		0.242	0.235	0.232	0.223	0.200	0.226	7.2			
Methylene Chloride		0.252	0.236	0.234	0.220	0.201	0.229	8.3			
trans-1,2-Dichloroethene		0.222	0.226	0.236	0.229	0.213	0.225	3.7			
1,1-Dichloroethane	*	0.405	0.409	0.409	0.395	0.368	0.397	4.4	*		
cis-1,2-dichloroethene		0.210	0.233	0.243	0.233	0.219	0.228	5.8			
Chloroform		0.398	0.387	0.379	0.366	0.340	0.374	6.1			
Bromochloromethane		0.136	0.124	0.118	0.111	0.104	0.119	10.3			
1,1,1-Trichloroethane		0.326	0.330	0.338	0.352	0.325	0.334	3.3			
Carbon Tetrachloride		0.292	0.287	0.302	0.313	0.296	0.298	3.4			
1,2-Dichloroethane		0.338	0.326	0.324	0.309	0.281	0.316	6.9			
Benzene		0.882	0.937	0.919	0.891	0.814	0.889	5.3			
Trichloroethene		0.224	0.234	0.241	0.240	0.224	0.233	3.5			
1,2-Dichloropropane		0.217	0.219	0.227	0.222	0.207	0.218	3.4			
Bromodichloromethane		0.247	0.261	0.265	0.271	0.249	0.259	3.9			
cis-1,3-Dichloropropene		0.247	0.303	0.328	0.341	0.324	0.309	12.0			
Toluene		4.067	4.358	4.299	4.326	3.787	4.167	5.8			
trans-1,3-Dichloropropene		1.031	1.193	1.271	1.334	1.192	1.204	9.4			
1,1,2-Trichloroethane		0.825	0.812	0.810	0.814	0.703	0.793	6.4			
Tetrachloroethene		0.816	0.867	0.853	0.907	0.788	0.846	5.4			
Dibromochloromethane		0.763	0.827	0.879	0.932	0.848	0.850	7.4			
Chlorobenzene	*	3.028	2.858	2.832	2.806	2.530	2.811	6.4	*		
Ethylbenzene		1.457	1.481	1.462	1.482	1.354	1.447	3.7			
Styrene		2.657	2.997	3.022	3.057	2.802	2.907	5.9			
Bromoform	*	0.426	0.492	0.546	0.582	0.533	0.516	11.6	*		
1,1,2,2-Tetrachloroethane	*	0.553	0.560	0.569	0.551	0.481	0.543	6.5	*		
1,3-Dichlorobenzene		1.357	1.367	1.330	1.302	1.188	1.309	5.5			
1,4-Dichlorobenzene		1.502	1.424	1.386	1.343	1.220	1.375	7.6			
1,2-Dichlorobenzene		1.275	1.290	1.260	1.239	1.114	1.236	5.7			
Dibromomethane		0.129	0.132	0.129	0.127	0.116	0.127	4.9			
1,2-Dibromoethane		0.760	0.782	0.811	0.834	0.726	0.783	5.4			
1,1,1,2-Tetrachloroethane		0.928	0.959	0.971	1.007	0.920	0.957	3.7			

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

All other compounds must meet a minimum RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL-PITTSBURGH

Contract:

679 133

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP6

Calibration Date(s): 03/22/01 03/22/01

Heated Purge: (Y/N) N

Calibration Time(s): 0654 0838

GC Column: DB 624 ID: 0.20 (mm)

LAB FILE ID: RRF25=1A60322 RRF100=1B60322 RRF250=1C60322 RRF500=1D60322 RRF1000=1E60322							
COMPOUND	RRF25	RRF100	RRF250	RRF500	RRF1000	RRF	% RSD
1,2,3-Trichloropropane	0.179	0.190	0.197	0.187	0.163	0.183	7.1
1,2-Dibromo-3-chloropropane	0.071	0.085	0.095	0.094	0.085	0.086	11.2
2,2-Dichloropropane	0.266	0.287	0.306	0.306	0.296	0.292	5.8
1,1-Dichloropropene	0.241	0.282	0.296	0.296	0.269	0.277	8.4
1,3-Dichloropropane	1.443	1.497	1.511	1.518	1.326	1.459	5.5
n-Propylbenzene	0.696	0.781	0.783	0.766	0.698	0.745	5.9
Bromobenzene	0.646	0.678	0.680	0.662	0.612	0.656	4.3
1,3,5-Trimethylbenzene	2.011	2.216	2.230	2.208	1.997	2.132	5.5
2-Chlorotoluene	0.659	0.689	0.677	0.664	0.610	0.660	4.6
4-Chlorotoluene	0.700	0.708	0.700	0.696	0.642	0.689	3.9
tert-Butylbenzene	1.691	1.999	2.003	1.970	1.756	1.884	7.9
1,2,4-Trimethylbenzene	1.979	2.159	2.174	2.143	1.920	2.075	5.6
sec-Butylbenzene	2.664	2.977	2.926	2.826	2.444	2.767	7.8
4-Isopropyltoluene	2.347	2.577	2.569	2.555	2.270	2.464	5.9
n-Butylbenzene	1.817	2.188	2.216	2.230	1.973	2.085	8.8
1,2,4-Trichlorobenzene	0.440	0.589	0.676	0.696	0.641	0.608	16.8
Hexachlorobutadiene	0.449	0.456	0.479	0.478	0.426	0.458	4.8
Naphthalene	0.521	0.993	1.183	1.154	1.005	0.971	27.4
1,2,3-Trichlorobenzene	0.361	0.502	0.543	0.547	0.488	0.488	15.5
Acetone	0.184	0.133	0.106	0.092	0.106	0.124	29.4
Carbon Disulfide	0.785	0.780	0.786	0.760	0.677	0.758	6.1
2-Butanone	0.093	0.107	0.108	0.105	0.108	0.104	6.2
4-Methyl-2-Pentanone	0.578	0.763	0.812	0.873	0.776	0.760	14.5
2-Hexanone	0.377	0.511	0.578	0.595	0.608	0.534	17.9
Methyl tert-butyl ether	0.503	0.551	0.586	0.539	0.516	0.539	6.0
Isopropylbenzene	4.054	4.638	4.620	4.606	4.061	4.396	7.0
1,2-Dichloroethene (total)	0.216	0.230	0.239	0.231	0.216	0.226	4.5
Xylenes (total)	1.608	1.749	1.767	1.786	1.640	1.710	4.7
Dibromofluoromethane	0.251	0.263	0.247	0.224	0.187	0.234	12.8
1,2-Dichloroethane-d4	0.328	0.314	0.291	0.263	0.212	0.282	16.4
Toluene-d8	3.798	4.561	4.264	4.049	3.148	3.964	13.5
Bromofluorobenzene	1.593	1.685	1.593	1.497	1.209	1.515	12.1

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

679 134 INITIAL CALIBRATION REPORT

Instrument ID: hp6.i
Lab File ID: 1A60322.D
Analysis Type: WATER

Injection Date: 22-MAR-2001 06:54
Lab Sample ID: vstd5
Method File: \\qpitpa02\d\chem\hp6.i\60322d.b

COMPOUND	%RSD
-----	-----
Xylenes (total)	4.7
1,2-Dichloroethene (total)	4.5
Dichlorodifluoromethane	7.4
Chloromethane	6.0
Vinyl Chloride	1.8
Bromomethane	15.8
Chloroethane	17.9
Trichlorofluoromethane	29.4
1,1-Dichloroethene	7.2
Acetone	29.4
Carbon Disulfide	6.1
Methylene Chloride	8.3
trans-1,2-Dichloroethene	3.7
Methyl tert-butyl ether	6.0
1,1-Dichloroethane	4.4
2,2-Dichloropropane	5.8
cis-1,2-dichloroethene	5.8
2-Butanone	6.2
Bromochloromethane	10.3
Chloroform	6.1
1,1,1-Trichloroethane	3.3
Dibromofluoromethane	12.8
Carbon Tetrachloride	3.4
1,1-Dichloropropene	8.4
1,2-Dichloroethane-d4	16.4
Benzene	5.3
1,2-Dichloroethane	6.9
Trichloroethene	3.5
1,2-Dichloropropane	3.4
Dibromomethane	4.9
Bromodichloromethane	3.9
cis-1,3-Dichloropropene	12.0
4-Methyl-2-Pentanone	14.5
Toluene-d8	13.5
Toluene	5.8
trans-1,3-Dichloropropene	9.4
1,1,2-Trichloroethane	6.4
Tetrachloroethene	5.4
1,3-Dichloropropane	5.5

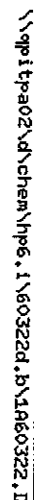
INITIAL CALIBRATION REPORT

Instrument ID: hp6.i
Lab File ID: 1A60322.D
Analysis Type: WATER

Injection Date: 22-MAR-2001 06:54
Lab Sample ID: vstd5
Method File: \\qpitpa02\d\chem\hp6.i\60322d.b

COMPOUND	%RSD
2-Hexanone	17.9
Dibromochloromethane	7.4
1,2-Dibromoethane	5.4
Chlorobenzene	6.4
1,1,1,2-Tetrachloroethane	3.7
Ethylbenzene	3.7
m + p-Xylene	4.2
Xylene-o	4.7
Styrene	5.9
Bromoform	11.6
Isopropylbenzene	7.0
Bromofluorobenzene	12.1
Bromobenzene	4.3
1,1,2,2-Tetrachloroethane	6.5
1,2,3-Trichloropropane	7.1
n-Propylbenzene	5.9
2-Chlorotoluene	4.6
1,3,5-Trimethylbenzene	5.5
4-Chlorotoluene	3.9
tert-Butylbenzene	7.9
1,2,4-Trimethylbenzene	5.6
sec-Butylbenzene	7.8
1,3-Dichlorobenzene	5.5
4-Isopropyltoluene	5.9
1,4-Dichlorobenzene	7.6
n-Butylbenzene	8.8
1,2-Dichlorobenzene	5.7
1,2-Dibromo-3-chloropropane	11.2
1,2,4-Trichlorobenzene	16.8
Hexachlorobutadiene	4.8
Naphthalene	27.4
1,2,3-Trichlorobenzene	15.5

The average of all %RSD's in the initial calibration is 8.3



679 137

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\qpitpa02\d\chem\hp6.i\60322d.b\1A60322.D
Lab Smp Id: vstd5 Client Smp ID: vstd5
Inj Date : 22-MAR-2001 06:54
Operator : 16328 Inst ID: hp6.i
Smp Info : vstd5 5ml
Misc Info : vstd5,60322d.b,8260bh2o.m
Comment :
Method : \\qpitpa02\d\chem\hp6.i\60322d.b\8260bh2o.m
Meth Date : 22-Mar-2001 08:57 dudeckk Quant Type: ISTD
Cal Date : 22-MAR-2001 06:54 Cal File: 1A60322.D
Als bottle: 17 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC077

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)	ON-COL (ng)
* 46 Fluorobenzene	96	6.610	6.610	(1.000)	676282	250.000	
* 69 Chlorobenzene-d5	119	9.737	9.737	(1.000)	156708	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.048	12.048	(1.000)	276209	250.000	
\$ 39 Dibromofluoromethane	113	5.843	5.843	(0.884)	16982	25.0000	26.79
\$ 43 1,2-Dichloroethane-d4	65	6.214	6.214	(0.940)	22167	25.0000	29.11
\$ 59 Toluene-d8	98	8.295	8.295	(0.852)	59525	25.0000	23.96
\$ 80 Bromofluorobenzene	95	10.905	10.905	(1.120)	24961	25.0000	26.27
2 Chloromethane	50	1.536	1.536	(0.232)	26001	25.0000	27.52
3 Vinyl Chloride	62	1.621	1.621	(0.245)	20059	25.0000	25.36
4 Bromomethane	94	1.901	1.901	(0.288)	6369	25.0000	29.50
5 Chloroethane	64	1.992	1.992	(0.301)	8222	25.0000	32.12
6 Trichlorofluoromethane	101	2.224	2.224	(0.336)	34154	25.0000	31.55
1 Dichlorodifluoromethane	85	1.366	1.366	(0.207)	25136	25.0000	27.68
12 1,1-Dichloroethene	96	2.789	2.789	(0.422)	16345	25.0000	26.69
13 Acetone	43	2.917	2.917	(0.441)	12424	25.0000	37.00
15 Carbon Disulfide	76	3.014	3.014	(0.456)	53068	25.0000	25.90

679 138

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
18 Methylene Chloride	84	3.410	3.410	(0.516)	17031	25.0000	27.55
19 trans-1,2-Dichloroethene	96	3.805	3.805	(0.576)	15028	25.0000	24.66
20 Methyl tert-butyl ether	73	3.866	3.866	(0.585)	33999	25.0000	23.32
24 1,1-Dichloroethane	63	4.426	4.426	(0.670)	27372	25.0000	25.47
27 2,2-Dichloropropane	77	5.211	5.211	(0.788)	17981	25.0000	22.75
28 cis-1,2-dichloroethene	96	5.235	5.235	(0.792)	14183	25.0000	23.03
M 29 1,2-Dichloroethene (total)	96				29211	50.0000	47.68
30 Bromochloromethane	128	5.527	5.527	(0.836)	9204	25.0000	28.67
31 2-Butanone	43	5.314	5.314	(0.804)	6275	25.0000	22.26
37 Chloroform	83	5.661	5.661	(0.856)	26956	25.0000	26.64
38 1,1,1-Trichloroethane	97	5.843	5.843	(0.884)	22081	25.0000	24.41
40 1,1-Dichloropropene	75	6.044	6.044	(0.914)	16290	25.0000	21.74
41 Carbon Tetrachloride	117	6.044	6.044	(0.914)	19776	25.0000	24.53
42 Benzene	78	6.281	6.281	(0.950)	59627	25.0000	24.80
45 1,2-Dichloroethane	62	6.306	6.306	(0.954)	22873	25.0000	26.78
47 Trichloroethene	130	7.017	7.017	(1.062)	15161	25.0000	24.11
49 1,2-Dichloropropane	63	7.242	7.242	(1.096)	14683	25.0000	24.84
50 Dibromomethane	93	7.370	7.370	(1.115)	8728	25.0000	25.49
53 Bromodichloromethane	83	7.559	7.559	(1.144)	16724	25.0000	23.91
57 cis-1,3-Dichloropropene	75	8.021	8.021	(1.214)	16695	25.0000	19.99
58 4-Methyl-2-Pentanone	43	8.210	8.210	(0.843)	9065	25.0000	19.01
60 Toluene	91	8.356	8.356	(0.858)	63730	25.0000	24.40
61 trans-1,3-Dichloropropene	75	8.593	8.593	(0.883)	16161	25.0000	21.41
63 1,3-Dichloropropane	76	8.928	8.928	(0.917)	22616	25.0000	24.73
64 1,1,2-Trichloroethane	97	8.769	8.769	(0.901)	12923	25.0000	26.01
65 Tetrachloroethene	164	8.909	8.909	(0.915)	12792	25.0000	24.12
66 2-Hexanone	43	9.049	9.049	(0.929)	5902	25.0000	17.65
67 Dibromochloromethane	129	9.165	9.165	(0.941)	11960	25.0000	22.44
68 1,2-Dibromoethane	107	9.256	9.256	(0.951)	11915	25.0000	24.28
70 Chlorobenzene	112	9.761	9.761	(1.002)	47459	25.0000	26.94
71 1,1,1,2-Tetrachloroethane	131	9.846	9.846	(1.011)	14548	25.0000	24.25
72 Ethylbenzene	106	9.883	9.883	(1.015)	22838	25.0000	25.18
73 m + p-Xylene	106	10.004	10.004	(1.027)	57942	50.0000	50.20
74 Xylene-o	106	10.394	10.394	(1.067)	25196	25.0000	23.51
M 75 Xylenes (total)	106				83138	25.0000	77.56
76 Styrene	104	10.406	10.406	(1.069)	41643	25.0000	22.85
77 Bromoform	173	10.576	10.576	(1.086)	6673	25.0000	20.64
78 Isopropylbenzene	105	10.759	10.759	(1.105)	63531	25.0000	23.06
79 Bromobenzene	156	11.045	11.045	(0.917)	17856	25.0000	24.65
81 n-Propylbenzene	120	11.166	11.166	(0.927)	19228	25.0000	23.36
82 2-Chlorotoluene	126	11.245	11.245	(0.933)	18207	25.0000	24.97
83 1,1,2,2-Tetrachloroethane	83	11.051	11.051	(0.917)	15285	25.0000	25.47
84 1,2,3-Trichloropropane	110	11.087	11.087	(0.920)	4941	25.0000	24.40
85 4-Chlorotoluene	126	11.355	11.355	(0.942)	19340	25.0000	25.39
86 1,3,5-Trimethylbenzene	105	11.349	11.349	(0.942)	55553	25.0000	23.58
87 tert-Butylbenzene	119	11.671	11.671	(0.969)	46713	25.0000	22.44
88 1,2,4-Trimethylbenzene	105	11.714	11.714	(0.972)	54671	25.0000	23.85

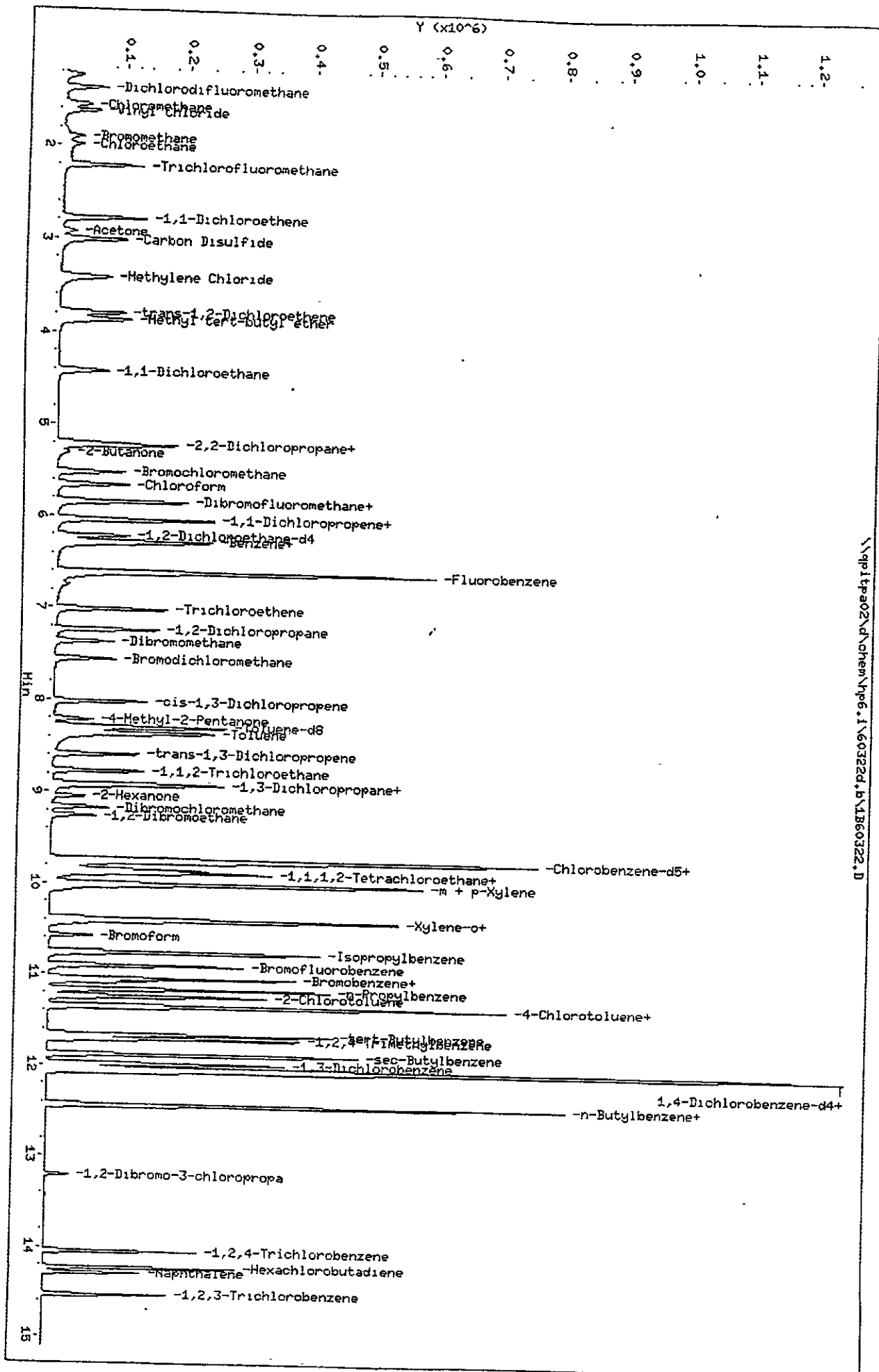
679 139

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
*****	---	--	-----	-----	-----	-----	-----
89 sec-Butylbenzene	105	11.884	11 884	(0 986)	73590	25 0000	24.07
90 4-Isopropyltoluene	119	12 030	12 030	(0 998)	64833	25.0000	23 82
91 1,3-Dichlorobenzene	146	11 982	11 982	(0 994)	37489	25 0000	25 92
93 1,4-Dichlorobenzene	146	12 073	12 073	(1.002)	41493	25 0000	27.31
94 n-Butylbenzene	91	12.438	12 438	(1.032)	50193	25.0000	21 79
95 1,2-Dichlorobenzene	146	12 438	12 438	(1 032)	35213	25 0000	25 79
96 1,2-Dibromo-3-chloropropane	157	13 210	13 210	(1.096)	1956	25 0000	20 61
97 1,2,4-Trichlorobenzene	180	14.050	14.050	(1.166)	12151	25.0000	18.08
98 Hexachlorobutadiene	225	14 232	14 232	(1 181)	12411	25.0000	24.55
99 Naphthalene	128	14 287	14.287	(1 186)	14399	25.0000	13.42
100 1,2,3-Trichlorobenzene	180	14.530	14 530	(1.206)	9964	25.0000	18 47

Data File: \\ppltpa02\chem\hp6.1\60322d.b\1B60322.D
 Date: 22-MAR-2004 07:18
 Client ID: vstd20
 Sample Info: vstd20 Sm1
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp6.1
 Operator: 16328
 Column diameter: 0.20

\\ppltpa02\chem\hp6.1\60322d.b\1B60322.D



679 141

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\qpitpa02\d\chem\hp6.i\60322d.b\1B60322.D
Lab Smp Id: vstd20 Client Smp ID: vstd20
Inj Date : 22-MAR-2001 07:18
Operator : 16328 Inst ID: hp6.i
Smp Info : vstd20 5ml
Misc Info : vstd20,60322d.b,8260bh2o.m
Comment :
Method : \\qpitpa02\d\chem\hp6.i\60322d.b\8260bh2o.m
Meth Date : 22-Mar-2001 08:57 dudeckk Quant Type: ISTD
Cal Date : 22-MAR-2001 06:54 Cal File: 1A60322.D
Als bottle: 18 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC077

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)	ON-COL (ng)
* 46 Fluorobenzene	96	6.607	6.607	(1.000)	716474	250.000	
* 69 Chlorobenzene-d5	119	9.734	9.734	(1.000)	171661	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.052	12.052	(1.000)	298974	250.000	
\$ 39 Dibromofluoromethane	113	5.853	5.853	(0.886)	75340	100.000	112.2
\$ 43 1,2-Dichloroethane-d4	65	6.218	6.218	(0.941)	90123	100.000	111.7
\$ 59 Toluene-d8	98	8.292	8.292	(0.852)	313188	100.000	115.1
\$ 80 Bromofluorobenzene	95	10.902	10.902	(1.120)	115716	100.000	111.2
2 Chloromethane	50	1.558	1.558	(0.236)	99733	100.000	99.64
3 Vinyl Chloride	62	1.619	1.619	(0.245)	82515	100.000	98.46
4 Bromomethane	94	1.899	1.899	(0.287)	19781	100.000	85.47
5 Chloroethane	64	1.984	1.984	(0.300)	28583	100.000	105.4
6 Trichlorofluoromethane	101	2.215	2.215	(0.335)	130058	100.000	113.4
1 Dichlorodifluoromethane	85	1.363	1.363	(0.206)	98913	100.000	102.8
12 1,1-Dichloroethene	96	2.781	2.781	(0.421)	67410	100.000	103.9
13 Acetone	43	2.927	2.927	(0.443)	38088	100.000	107.1
15 Carbon Disulfide	76	3.012	3.012	(0.456)	223525	100.000	103.0

679 142

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	-----	--	-----	-----	-----	(ng)	(ng)
18 Methylene Chloride	84	3.413	3.413	(0.517)	67549	100.000	103.2
19 trans-1,2-Dichloroethene	96	3.797	3.797	(0.575)	64752	100.000	100.3
20 Methyl tert-butyl ether	73	3.870	3.870	(0.586)	157998	100.000	102.3
24 1,1-Dichloroethane	63	4.429	4.429	(0.670)	117280	100.000	103.0
27 2,2-Dichloropropane	77	5.214	5.214	(0.789)	82137	100.000	98.08
28 cis-1,2-dichloroethene	96	5.232	5.232	(0.792)	66805	100.000	102.4
M 29 1,2-Dichloroethene (total)	96				131557	200.000	202.7
30 Bromochloromethane	128	5.524	5.524	(0.836)	35600	100.000	104.7
31 2-Butanone	43	5.311	5.311	(0.804)	30598	100.000	102.4
37 Chloroform	83	5.658	5.658	(0.856)	111006	100.000	103.5
38 1,1,1-Trichloroethane	97	5.847	5.847	(0.885)	94633	100.000	98.74
40 1,1-Dichloropropene	75	6.048	6.048	(0.915)	80778	100.000	101.8
41 Carbon Tetrachloride	117	6.041	6.041	(0.914)	82314	100.000	96.36
42 Benzene	78	6.279	6.279	(0.950)	268668	100.000	105.5
45 1,2-Dichloroethane	62	6.309	6.309	(0.955)	93350	100.000	103.2
47 Trichloroethene	130	7.015	7.015	(1.062)	66998	100.000	100.6
49 1,2-Dichloropropane	63	7.240	7.240	(1.096)	62832	100.000	100.3
50 Dibromomethane	93	7.368	7.368	(1.115)	37701	100.000	103.9
53 Bromodichloromethane	83	7.556	7.556	(1.144)	74767	100.000	100.9
57 cis-1,3-Dichloropropene	75	8.019	8.019	(1.214)	86912	100.000	98.24
58 4-Methyl-2-Pentanone	43	8.213	8.213	(0.844)	52399	100.000	100.3
60 Toluene	91	8.359	8.359	(0.859)	299246	100.000	104.6
61 trans-1,3-Dichloropropene	75	8.590	8.590	(0.883)	81946	100.000	99.10
63 1,3-Dichloropropane	76	8.931	8.931	(0.918)	102780	100.000	102.6
64 1,1,2-Trichloroethane	97	8.773	8.773	(0.901)	55766	100.000	102.4
65 Tetrachloroethene	164	8.913	8.913	(0.916)	59530	100.000	102.4
66 2-Hexanone	43	9.047	9.047	(0.929)	35064	100.000	95.71
67 Dibromochloromethane	129	9.168	9.168	(0.942)	56788	100.000	97.29
68 1,2-Dibromoethane	107	9.260	9.260	(0.951)	53733	100.000	99.96
70 Chlorobenzene	112	9.765	9.765	(1.003)	196228	100.000	101.7
71 1,1,1,2-Tetrachloroethane	131	9.850	9.850	(1.012)	65830	100.000	100.2
72 Ethylbenzene	106	9.880	9.880	(1.015)	101685	100.000	102.3
73 m + p-Xylene	106	10.002	10.002	(1.027)	261465	200.000	206.8
74 Xylene-o	106	10.391	10.391	(1.067)	120102	100.000	102.3
M 75 Xylenes (total)	106				381567	100.000	325.0
76 Styrene	104	10.403	10.403	(1.069)	205787	100.000	103.1
77 Bromoform	173	10.580	10.580	(1.087)	33791	100.000	95.40
78 Isopropylbenzene	105	10.762	10.762	(1.106)	318465	100.000	105.5
79 Bromobenzene	156	11.048	11.048	(0.917)	81119	100.000	103.4
81 n-Propylbenzene	120	11.170	11.170	(0.927)	93353	100.000	104.8
82 2-Chlorotoluene	126	11.249	11.249	(0.933)	82448	100.000	104.5
83 1,1,1,2,2-Tetrachloroethane	83	11.054	11.054	(0.917)	67004	100.000	103.2
84 1,2,3-Trichloropropane	110	11.085	11.085	(0.920)	22789	100.000	103.9
85 4-Chlorotoluene	126	11.352	11.352	(0.942)	84719	100.000	102.8
86 1,3,5-Trimethylbenzene	105	11.346	11.346	(0.941)	264998	100.000	103.9
87 tert-Butylbenzene	119	11.669	11.669	(0.968)	239073	100.000	106.1
88 1,2,4-Trimethylbenzene	105	11.711	11.711	(0.972)	258165	100.000	104.0

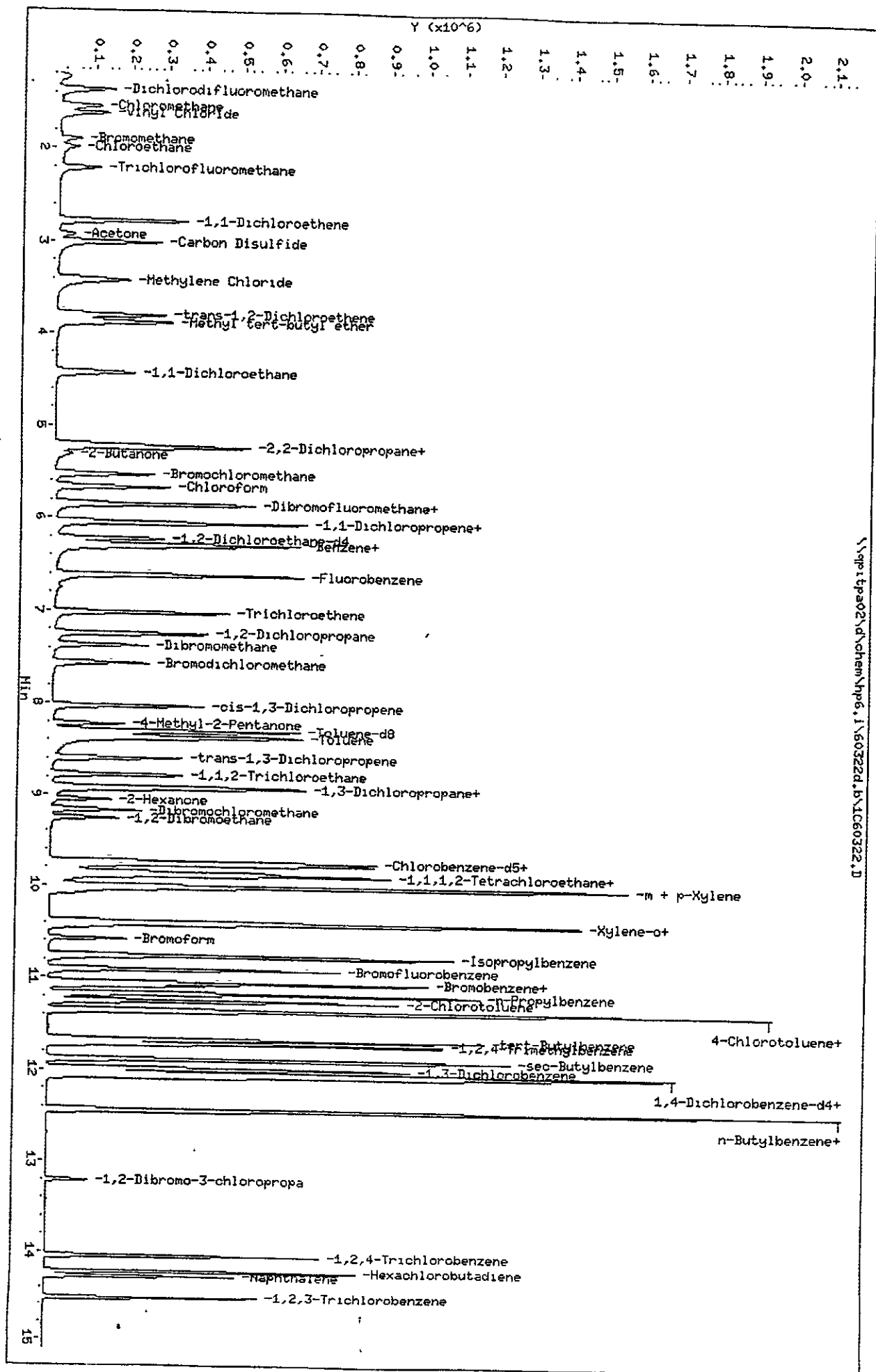
679 143

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
89 sec-Butylbenzene	105	11.882	11.882	(0.986)	356075	100.000	107.6
90 4-Isopropyltoluene	119	12.028	12.028	(0.998)	308195	100.000	104.6
91 1,3-Dichlorobenzene	146	11.985	11.985	(0.994)	163507	100.000	104.4
93 1,4-Dichlorobenzene	146	12.070	12.070	(1.002)	170337	100.000	103.6
94 n-Butylbenzene	91	12.435	12.435	(1.032)	261729	100.000	105.0
95 1,2-Dichlorobenzene	146	12.435	12.435	(1.032)	154326	100.000	104.4
96 1,2-Dibromo-3-chloropropane	157	13.214	13.214	(1.096)	10124	100.000	98.54
97 1,2,4-Trichlorobenzene	180	14.047	14.047	(1.166)	70495	100.000	96.91
98 Hexachlorobutadiene	225	14.230	14.230	(1.181)	54514	100.000	99.61
99 Naphthalene	128	14.285	14.285	(1.185)	118713	100.000	102.2
100 1,2,3-Trichlorobenzene	180	14.534	14.534	(1.206)	60054	100.000	102.8

Data File: \\pp1tpa02\chem\hpe.1\60322d.b\160322.D
 Date : 22-MAR-2001 07:47
 Client ID: vstd50
 Sample Info: vstd50 5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hpe.i
 Operator: 16328
 Column diameter: 0.20

\\pp1tpa02\chem\hpe.1\60322d.b\160322.D



679 145

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\qpitpa02\d\chem\hp6.i\60322d.b\1C60322.D
Lab Smp Id: vstd50 Client Smp ID: vstd50
Inj Date : 22-MAR-2001 07:47
Operator : 16328 Inst ID: hp6.i
Smp Info : vstd50 5ml
Misc Info : vstd50,60322d.b,8260bh2o.m
Comment :
Method : \\qpitpa02\d\chem\hp6.i\60322d.b\8260bh2o.m
Meth Date : 22-Mar-2001 08:57 dudeckk Quant Type: ISTD
Cal Date : 22-MAR-2001 06:54 Cal File: 1A60322.D
Als bottle: 19 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC077

K₂ 3/22/01

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)	ON-COL (ng)
* 46 Fluorobenzene	96	6.609	6.609	(1.000)	764866	250.000	
* 69 Chlorobenzene-d5	119	9.742	9.742	(1.000)	182000	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.053	12.053	(1.000)	314312	250.000	
\$ 39 Dibromofluoromethane	113	5.848	5.848	(0.885)	188676	250.000	263.2
\$ 43 1,2-Dichloroethane-d4	65	6.219	6.219	(0.941)	222543	250.000	258.4
\$ 59 Toluene-d8	98	8.294	8.294	(0.851)	775976	250.000	268.9
\$ 80 Bromofluorobenzene	95	10.910	10.910	(1.120)	289989	250.000	262.8
2 Chloromethane	50	1.553	1.553	(0.235)	256713	250.000	240.2
3 Vinyl Chloride	62	1.620	1.620	(0.245)	221705	250.000	247.8
4 Bromomethane	94	1.900	1.900	(0.288)	49302	250.000	201.9
5 Chloroethane	64	1.985	1.985	(0.300)	65169	250.000	225.1
6 Trichlorofluoromethane	101	2.210	2.210	(0.335)	151920	250.000	124.1 (M)
1 Dichlorodifluoromethane	85	1.365	1.365	(0.207)	251916	250.000	245.3
12 1,1-Dichloroethene	96	2.782	2.782	(0.421)	177362	250.000	256.1
13 Acetone	43	2.928	2.928	(0.443)	81338	250.000	214.2
15 Carbon Disulfide	76	3.007	3.007	(0.455)	601013	250.000	259.3

K₂ 3/22/01

679 146

						AMOUNTS	
		QUANT SIG					
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.415	3.415	(0.517)	178739	250.000	255.7
19 trans-1,2-Dichloroethene	96	3.798	3.798	(0.575)	180159	250.000	261.4
20 Methyl tert-butyl ether	73	3.871	3.871	(0.586)	448467	250.000	271.9
24 1,1-Dichloroethane	63	4.425	4.425	(0.670)	312907	250.000	257.4
27 2,2-Dichloropropane	77	5.216	5.216	(0.789)	234334	250.000	262.1
28 cis-1,2-dichloroethene	96	5.234	5.234	(0.792)	185722	250.000	266.7
M 29 1,2-Dichloroethene (total)	96				365881	500.000	528.1
30 Bromochloromethane	128	5.526	5.526	(0.836)	89966	250.000	247.8
31 2-Butanone	43	5.313	5.313	(0.804)	82475	250.000	258.7
37 Chloroform	83	5.660	5.660	(0.856)	289909	250.000	253.3
38 1,1,1-Trichloroethane	97	5.842	5.842	(0.884)	258481	250.000	252.6
40 1,1-Dichloropropene	75	6.043	6.043	(0.914)	226679	250.000	267.5
41 Carbon Tetrachloride	117	6.043	6.043	(0.914)	230727	250.000	253.0
42 Benzene	78	6.274	6.274	(0.949)	703075	250.000	258.6
45 1,2-Dichloroethane	62	6.304	6.304	(0.954)	248274	250.000	257.0
47 Trichloroethene	130	7.016	7.016	(1.062)	184255	250.000	259.0
49 1,2-Dichloropropane	63	7.241	7.241	(1.096)	173597	250.000	259.7
50 Dibromomethane	93	7.369	7.369	(1.115)	98815	250.000	255.1
53 Bromodichloromethane	83	7.558	7.558	(1.144)	202508	250.000	256.0
57 cis-1,3-Dichloropropene	75	8.020	8.020	(1.214)	251279	250.000	266.0
58 4-Methyl-2-Pentanone	43	8.221	8.221	(0.844)	147850	250.000	267.0
60 Toluene	91	8.361	8.361	(0.858)	782456	250.000	257.9
61 trans-1,3-Dichloropropene	75	8.598	8.598	(0.883)	231270	250.000	263.8
63 1,3-Dichloropropane	76	8.933	8.933	(0.917)	274957	250.000	258.9
64 1,1,2-Trichloroethane	97	8.780	8.780	(0.901)	147416	250.000	255.4
65 Tetrachloroethene	164	8.914	8.914	(0.915)	155204	250.000	251.9
66 2-Hexanone	43	9.054	9.054	(0.929)	105163	250.000	270.7
67 Dibromochloromethane	129	9.170	9.170	(0.941)	160017	250.000	258.6
68 1,2-Dibromoethane	107	9.261	9.261	(0.951)	147677	250.000	259.1
70 Chlorobenzene	112	9.766	9.766	(1.002)	515392	250.000	251.9
71 1,1,1,2-Tetrachloroethane	131	9.851	9.851	(1.011)	176672	250.000	253.6
72 Ethylbenzene	106	9.882	9.882	(1.014)	266134	250.000	252.6
73 m + p-Xylene	106	10.003	10.003	(1.027)	677963	500.000	505.7
74 Xylene-o	106	10.393	10.393	(1.067)	321601	250.000	258.3
M 75 Xylenes (total)	106				999564	250.000	803.0
76 Styrene	104	10.405	10.405	(1.068)	550059	250.000	259.9
77 Bromoform	173	10.581	10.581	(1.086)	99380	250.000	264.6
78 Isopropylbenzene	105	10.764	10.764	(1.105)	840895	250.000	262.8
79 Bromobenzene	156	11.050	11.050	(0.917)	213730	250.000	259.3
81 n-Propylbenzene	120	11.171	11.171	(0.927)	246055	250.000	262.8
82 2-Chlorotoluene	126	11.250	11.250	(0.933)	212943	250.000	256.6
83 1,1,2,2-Tetrachloroethane	83	11.056	11.056	(0.917)	178901	250.000	262.0
84 1,2,3-Trichloropropane	110	11.086	11.086	(0.920)	61899	250.000	268.6
85 4-Chlorotoluene	126	11.354	11.354	(0.942)	220168	250.000	254.0
86 1,3,5-Trimethylbenzene	105	11.348	11.348	(0.941)	701047	250.000	261.5
87 tert-Butylbenzene	119	11.670	11.670	(0.968)	629661	250.000	265.8
88 1,2,4-Trimethylbenzene	105	11.719	11.719	(0.972)	683438	250.000	262.0

679 147

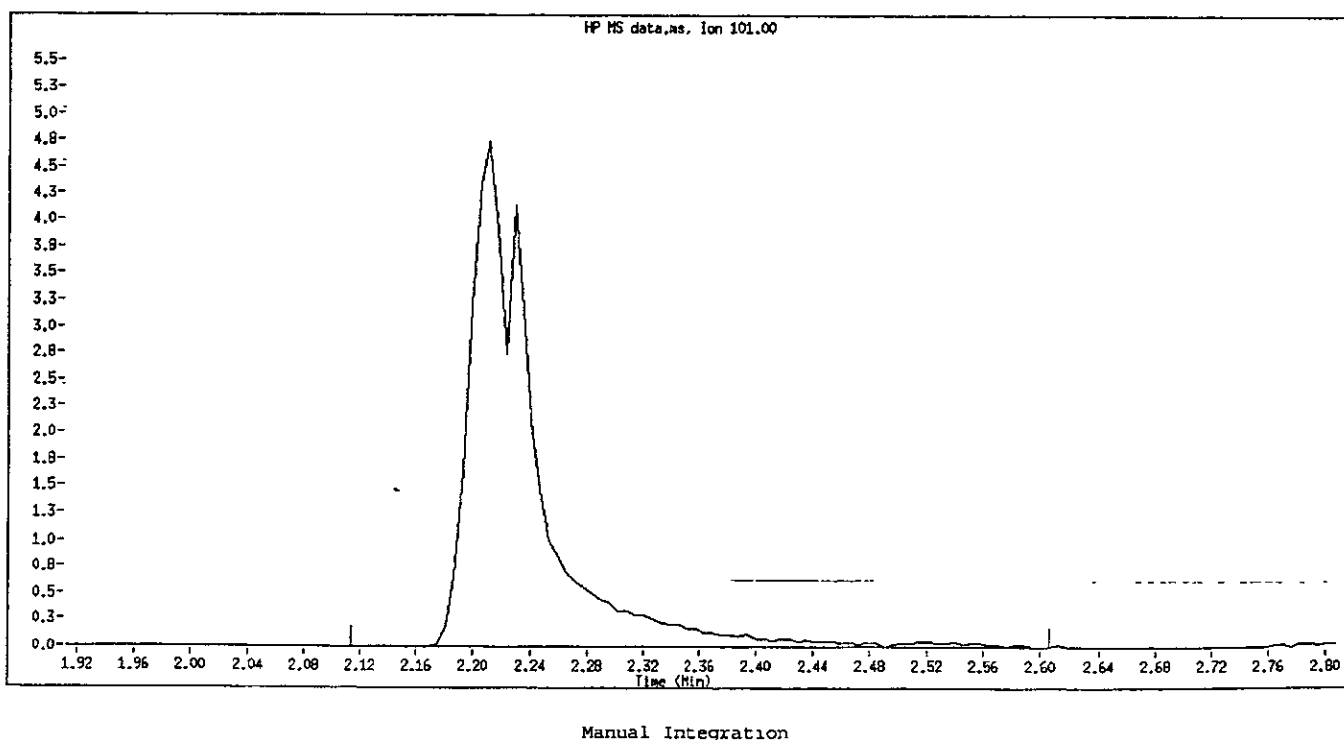
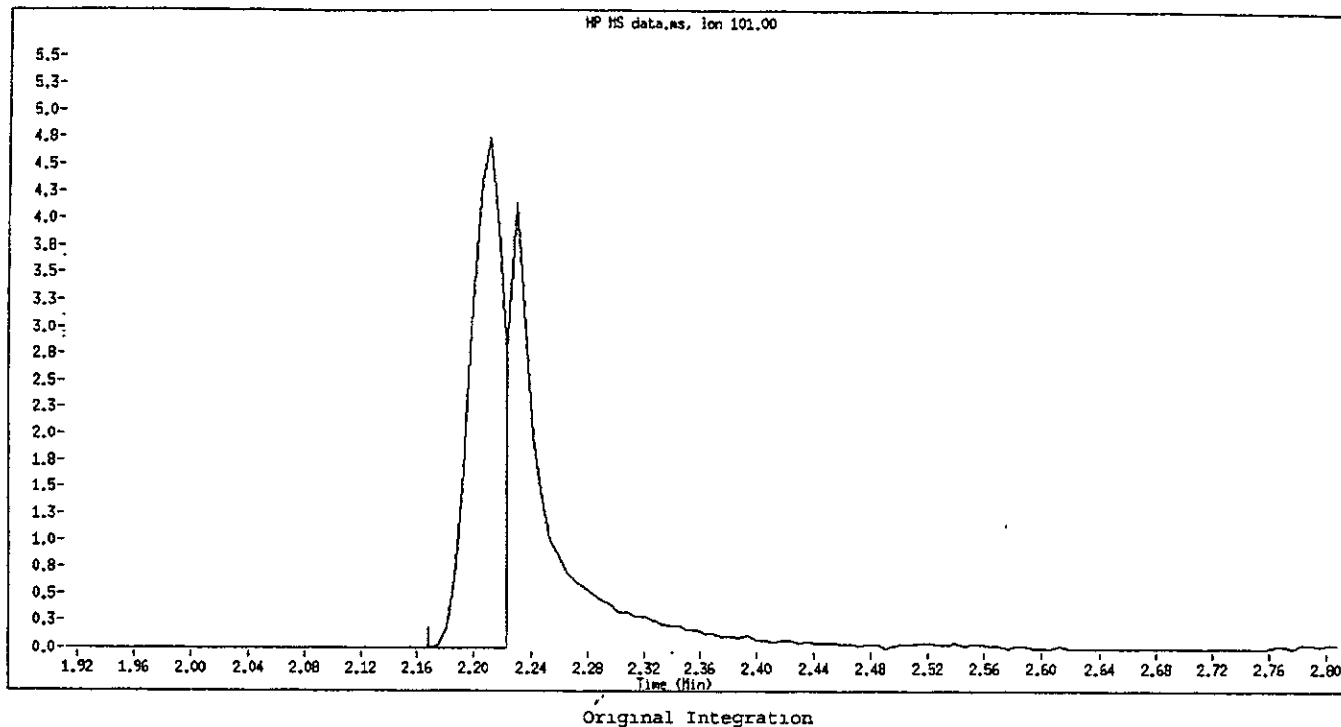
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----	-----
89 sec-Butylbenzene	105	11 883	11 883	(0 986)	919679	250 000	264.3
90 4-Isopropyltoluene	119	12 035	12 035	(0 998)	807498	250 000	260 7
91 1,3-Dichlorobenzene	146	11.986	11 986	(0 994)	418174	250 000	254.1
93 1,4-Dichlorobenzene	146	12 072	12 072	(1 002)	435645	250.000	252.0
94 n-Butylbenzene	91	12 437	12 437	(1 032)	696615	250.000	265.7
95 1,2-Dichlorobenzene	146	12 437	12 437	(1 032)	396177	250 000	255.0
96 1,2-Dibromo-3-chloropropane	157	13 215	13 215	(1 096)	29783	250 000	275 8
97 1,2,4-Trichlorobenzene	180	14.049	14.049	(1.166)	212328	250 000	277.6
98 Hexachlorobutadiene	225	14 231	14 231	(1 181)	150470	250.000	261.5
99 Naphthalene	128	14 286	14.286	(1.185)	371853	250.000	304.5
100 1,2,3-Trichlorobenzene	180	14 529	14 529	(1 205)	170791	250.000	278 2

QC Flag Legend

M - Compound response manually integrated.

Data File Name 1C60322.D
Inj. Date and Time 22-MAR-2001 07:47
Instrument ID hp6.i
Client ID vstd50
Compound Name Trichlorofluoromethane
CAS #: 75-69-4
Report Date 03/22/2001

679 148



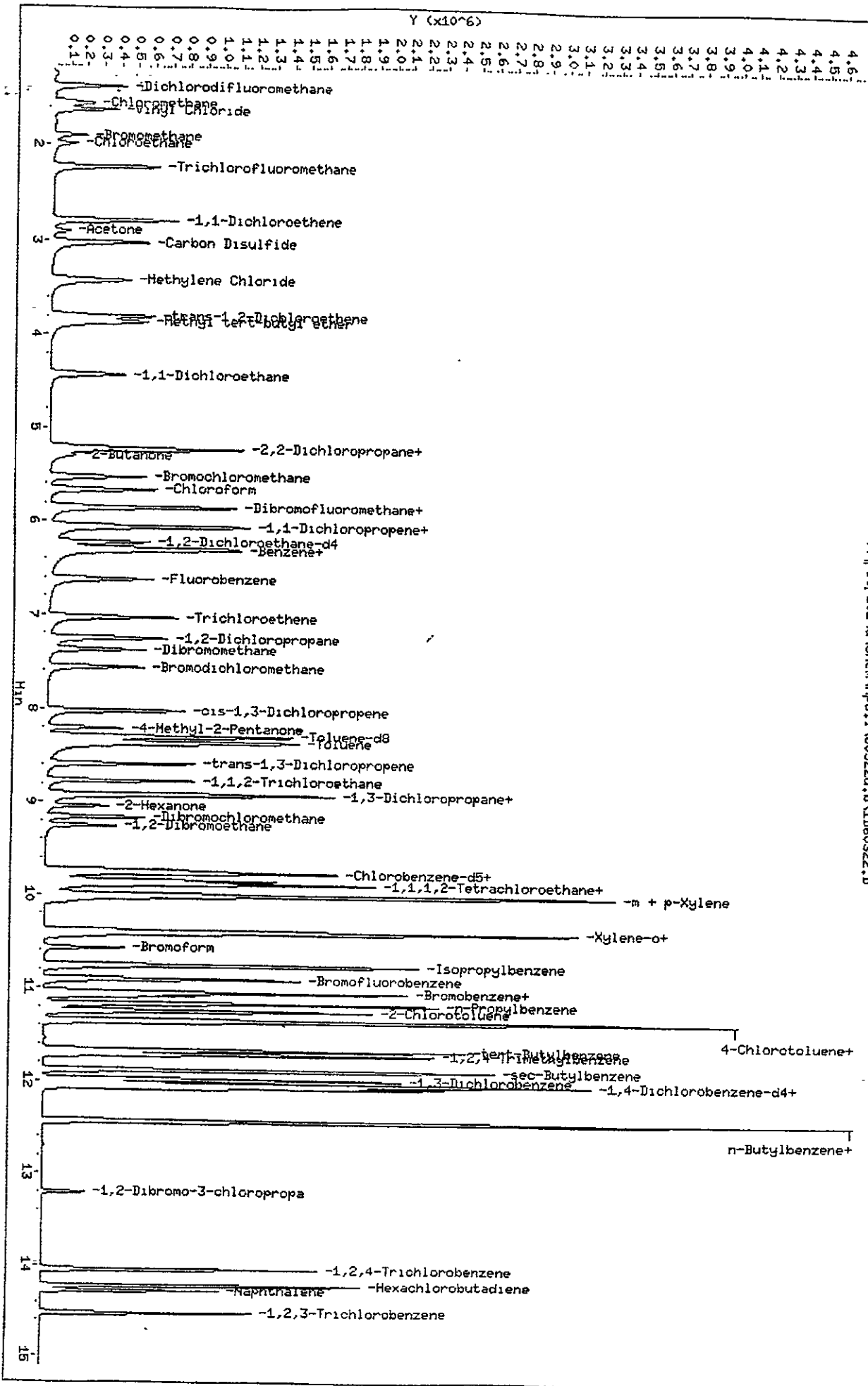
Manually Integrated By DudeckK
Manual Integration Reason: Peak Not Found

K₃ 3/22/01
Paul 3/22/01

Data File: \\pp1pa02\chem\hpe.1\60322d.b\1D60322.D
 Date : 22-MAR-2001 08:12
 Client ID: vstd100
 Sample Info: vstd100 5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hpe.1
 Operator: 16328
 Column diameter: 0.20

\\pp1pa02\chem\hpe.1\60322d.b\1D60322.D



679 150

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60322d.b\1D60322.D
Lab Smp Id: vstd100 Client Smp ID: vstd100
Inj Date : 22-MAR-2001 08:12
Operator : 16328 Inst ID: hp6.i
Smp Info : vstd100 5ml
Misc Info : vstd100,60322d.b,8260bh2o.m
Comment :
Method : \\qpitpa02\d\chem\hp6.i\60322d.b\8260bh2o.m
Meth Date : 22-Mar-2001 08:58 dudeckk Quant Type: ISTD
Cal Date : 22-MAR-2001 06:54 Cal File: 1A60322.D
Als bottle: 20 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC077

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)
						ON-COL (ng)
* 46 Fluorobenzene	96	6.614	6.614	(1.000)	843963	250 000
* 69 Chlorobenzene-d5	119	9.735	9.735	(1.000)	193393	250 000
* 92 1,4-Dichlorobenzene-d4	152	12.053	12.053	(1.000)	339240	250.000
\$ 39 Dibromofluoromethane	113	5.848	5.848	(0.884)	377907	500 000 477.7
\$ 43 1,2-Dichloroethane-d4	65	6.219	6.219	(0.940)	443377	500.000 466.5
\$ 59 Toluene-d8	98	8.293	8.293	(0.852)	1566160	500 000 510.7
\$ 80 Bromofluorobenzene	95	10.903	10.903	(1.120)	579075	500.000 493.9
2 Chloromethane	50	1.553	1.553	(0.235)	584275	500 000 495.6
3 Vinyl Chloride	62	1.620	1.620	(0.245)	505479	500 000 512.0
4 Bromomethane	94	1.900	1.900	(0.287)	148148	500 000 549.8
5 Chloroethane	64	1.985	1.985	(0.300)	148825	500.000 465.9
6 Trichlorofluoromethane	101	2.234	2.234	(0.338)	718170	500.000 531.6
1 Dichlorodifluoromethane	85	1.364	1.364	(0.206)	553345	500 000 488.3
12 1,1-Dichloroethene	96	2.794	2.794	(0.422)	376426	500 000 492.6
13 Acetone	43	2.910	2.910	(0.440)	155482	500.000 371.0
15 Carbon Disulfide	76	3.025	3.025	(0.457)	1282830	500 000 501.6

679 151

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----	-----
18 Methylene Chloride	84	3 415	3 415	(0.516)	371551	500 000	481 7
19 trans-1,2-Dichloroethene	96	3 804	3 804	(0.575)	387350	500.000	509 3
20 Methyl tert-butyl ether	73	3 865	3 865	(0.584)	909772	500 000	500 0
24 1,1-Dichloroethane	63	4 430	4 430	(0.670)	667546	500 000	497.8
27 2,2-Dichloropropane	77	5 221	5 221	(0.789)	516640	500 000	523 7
28 cis-1,2-dichloroethene	96	5 234	5 234	(0.791)	393982	500 000	512 7
M 29 1,2-Dichloroethene (total)	96				781332	1000 00	1022
30 Bromochloromethane	128	5.526	5 526	(0.835)	187518	500 000	468 1
31 2-Butanone	43	5 300	5 300	(0.801)	178059	500.000	506.1
37 Chloroform	83	5.659	5.659	(0.856)	617494	500 000	489.0
38 1,1,1-Trichloroethane	97	5 848	5 848	(0.884)	594573	500.000	526.6
40 1,1-Dichloropropene	75	6 055	6 055	(0.915)	500446	500.000	535.2
41 Carbon Tetrachloride	117	6.049	6.049	(0.914)	529013	500 000	525 8
42 Benzene	78	6.280	6.280	(0.949)	1503301	500.000	501 1
45 1,2-Dichloroethane	62	6.304	6 304	(0.953)	521784	500.000	489 5
47 Trichloroethene	130	7 022	7 022	(1.062)	404636	500.000	515.6
49 1,2-Dichloropropane	63	7.247	7.247	(1.096)	374973	500 000	508 4
50 Dibromomethane	93	7.369	7.369	(1.114)	215006	500.000	503 1
53 Bromodichloromethane	83	7 557	7.557	(1.143)	457034	500 000	523 5
57 cis-1,3-Dichloropropene	75	8.020	8.020	(1.212)	575702	500.000	552.4
58 4-Methyl-2-Pentanone	43	8.208	8 208	(0.843)	337520	500.000	573.6
60 Toluene	91	8.366	8 366	(0.859)	1673178	500 000	519 0
61 trans-1,3-Dichloropropene	75	8.592	8 592	(0.883)	515899	500 000	553.8
63 1,3-Dichloropropane	76	8 932	8 932	(0.918)	587059	500 000	520.2
64 1,1,2-Trichloroethane	97	8 774	8.774	(0.901)	314758	500.000	513 3
65 Tetrachloroethene	164	8 914	8.914	(0.916)	350710	500.000	535 8
66 2-Hexanone	43	9.042	9 042	(0.929)	230145	500.000	557 6
67 Dibromochloromethane	129	9.163	9 163	(0.941)	360626	500 000	548 4
68 1,2-Dibromoethane	107	9.261	9.261	(0.951)	322768	500 000	533 0
70 Chlorobenzene	112	9.766	9.766	(1.003)	1085373	500 000	499.2
71 1,1,1,2-Tetrachloroethane	131	9.845	9.845	(1.011)	389648	500 000	526 3
72 Ethylbenzene	106	9 881	9.881	(1.015)	573031	500.000	511 9
73 m + p-Xylene	106	10.003	10 003	(1.027)	1458122	1000 00	1024
74 Xylene-o	106	10.392	10 392	(1.067)	690630	500.000	522.1
M 75 Xylenes (total)	106				2148752	500 000	1624
76 Styrene	104	10 404	10 404	(1.069)	1182503	500 000	525 8
77 Bromoform	173	10 575	10 575	(1.086)	225090	500.000	564.1
78 Isopropylbenzene	105	10.763	10 763	(1.106)	1781741	500 000	523 9
79 Bromobenzene	156	11.049	11 049	(0.917)	449104	500.000	504 8
81 n-Propylbenzene	120	11.171	11 171	(0.927)	520086	500.000	514.6
82 2-Chlorotoluene	126	11.250	11 250	(0.933)	450359	500 000	502.9
83 1,1,2,2-Tetrachloroethane	83	11 049	11 049	(0.917)	374040	500 000	507.5
84 1,2,3-Trichloropropane	110	11 086	11.086	(0.920)	126984	500 000	510.5
85 4-Chlorotoluene	126	11 353	11 353	(0.942)	472043	500.000	504.6
86 1,3,5-Trimethylbenzene	105	11 347	11 347	(0.941)	1498140	500.000	517 7
87 tert-Butylbenzene	119	11 670	11.670	(0.968)	1336301	500 000	522.7
88 1,2,4-Trimethylbenzene	105	11 718	11.718	(0.972)	1453743	500 000	516 3

679 152

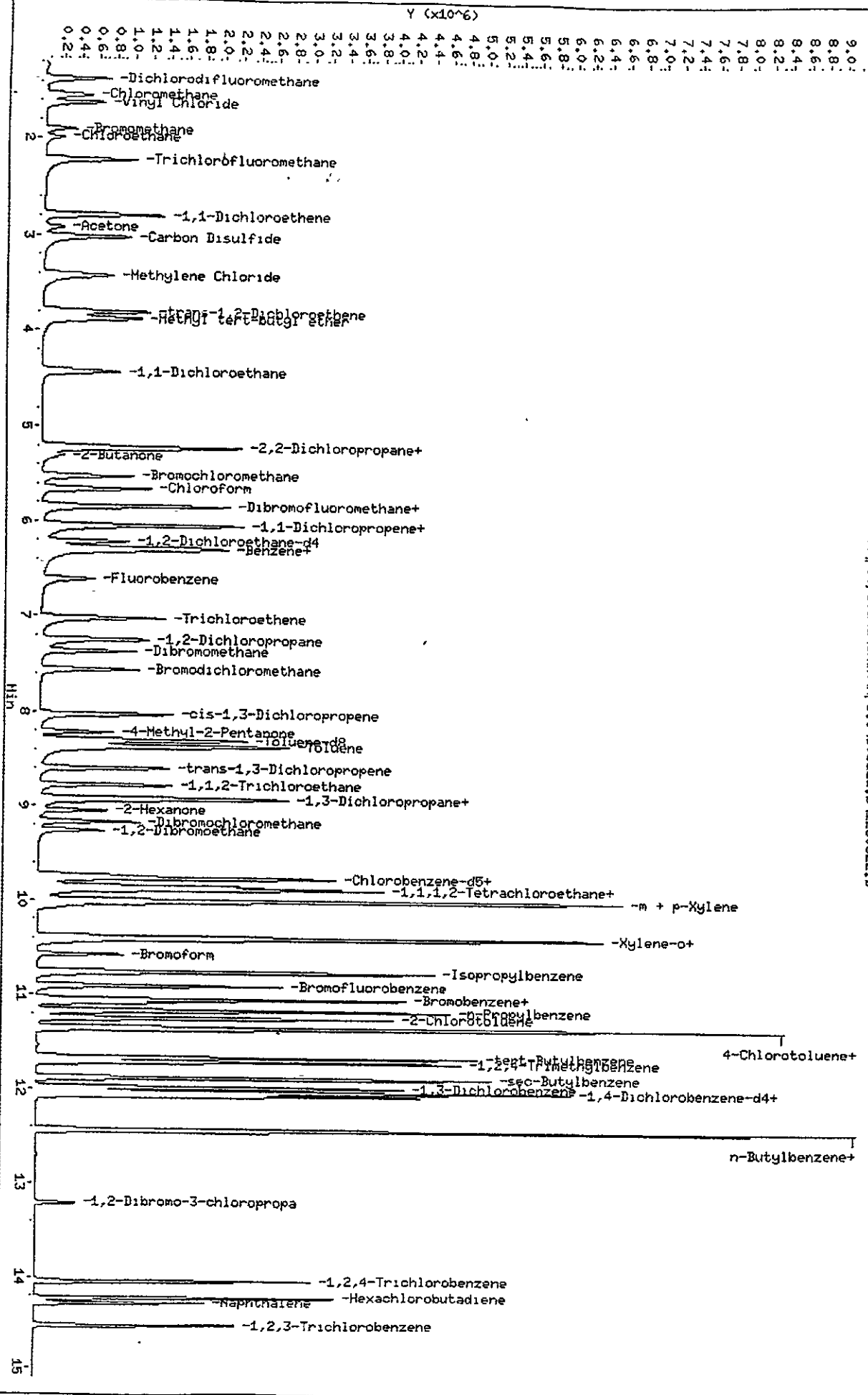
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
89 sec-Butylbenzene	105	11.883	11.883	(0.986)	1917230	500.000	510.5
90 4-Isopropyltoluene	119	12.029	12.029	(0.998)	1733710	500.000	518.6
91 1,3-Dichlorobenzene	146	11.986	11.986	(0.994)	883341	500.000	497.3
93 1,4-Dichlorobenzene	146	12.071	12.071	(1.002)	911148	500.000	488.3
94 n-Butylbenzene	91	12.436	12.436	(1.032)	1513068	500.000	534.8
95 1,2-Dichlorobenzene	146	12.436	12.436	(1.032)	840392	500.000	501.1
96 1,2-Dibromo-3-chloropropane	157	13.209	13.209	(1.096)	63693	500.000	546.4
97 1,2,4-Trichlorobenzene	180	14.048	14.048	(1.166)	471993	500.000	571.8
98 Hexachlorobutadiene	225	14.231	14.231	(1.181)	324169	500.000	522.0
99 Naphthalene	128	14.286	14.286	(1.185)	783232	500.000	594.3
100 1,2,3-Trichlorobenzene	180	14.535	14.535	(1.206)	371152	500.000	560.1

0

Data File: \\ppitpa02\chem\hp6.1\60322d.b\1E60322.D
 Date: 22-MAR-2001 08:38
 Client ID: vstd200
 Sample Info: vstd200 5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp6.1
 Operator: 16328
 Column diameter: 0.20

\\ppitpa02\chem\hp6.1\60322d.b\1E60322.D



679 154

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60322d.b\1E60322.D
Lab Smp Id: vstd200 Client Smp ID: vstd200
Inj Date : 22-MAR-2001 08:38
Operator : 16328 Inst ID: hp6.i
Smp Info : vstd200 5ml
Misc Info : vstd200,60322d.b,8260bh2o.m
Comment :
Method : \\qpitpa02\d\chem\hp6.i\60322d.b\8260bh2o.m
Meth Date : 22-Mar-2001 08:58 dudeckk Quant Type: ISTD
Cal Date : 22-MAR-2001 08:38 Cal File: 1E60322.D
Als bottle: 21 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
Target Version: 4.04
Processing Host: PITPC077

K₃/22/01

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					
		CAL-AMT	ON-COL		RESPONSE	(ng)	(ng)
	MASS	RT	EXP RT	REL RT			
* 46 Fluorobenzene	96	6.613	6.613	(1.000)	867432	250.000	
* 69 Chlorobenzene-d5	119	9.740	9.740	(1.000)	207820	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.052	12.052	(1.000)	360641	250.000	
\$ 39 Dibromofluoromethane	113	5.853	5.853	(0.885)	649299	1000.00	798.6
\$ 43 1,2-Dichloroethane-d4	65	6.218	6.218	(0.940)	734770	1000.00	752.2
\$ 59 Toluene-d8	98	8.299	8.299	(0.852)	2616472	1000.00	794.0
\$ 80 Bromofluorobenzene	95	10.908	10.908	(1.120)	1005177	1000.00	797.8
2 Chloromethane	50	1.540	1.540	(0.233)	1151869	1000.00	950.6
3 Vinyl Chloride	62	1.619	1.619	(0.245)	1000239	1000.00	985.8
4 Bromomethane	94	1.899	1.899	(0.287)	290356	1000.00	1048
5 Chloroethane	64	1.984	1.984	(0.300)	272282	1000.00	829.2
6 Trichlorofluoromethane	101	2.221	2.221	(0.336)	1449674	1000.00	1044
1 Dichlorodifluoromethane	85	1.363	1.363	(0.206)	1055888	1000.00	906.6
12 1,1-Dichloroethene	96	2.787	2.787	(0.421)	693940	1000.00	883.5
13 Acetone	43	2.915	2.915	(0.441)	366315	1000.00	850.5
15 Carbon Disulfide	76	3.012	3.012	(0.455)	2349970	1000.00	894.0

679 155

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----	-----
18 Methylene Chloride	84	3 414	3 414	(0.516)	697747	1000.00	880.1
19 trans-1,2-Dichloroethene	96	3 797	3 797	(0.574)	739999	1000.00	946 6
20 Methyl tert-butyl ether	73	3.870	3.870	(0.585)	1789695	1000 00	956.9
24 1,1-Dichloroethane	63	4 430	4 430	(0 670)	1275835	1000.00	925.6
27 2,2-Dichloropropane	77	5.220	5 220	(0 789)	1027276	1000 00	1013
28 cis-1,2-dichloroethene	96	5.233	5 233	(0 791)	760225	1000 00	962 5
M 29 1,2-Dichloroethene (total)	96				1500224	2000 00	1909
30 Bromochloromethane	128	5.525	5 525	(0 835)	361975	1000.00	879.1
31 2-Butanone	43	5 306	5 306	(0 802)	375324	1000 00	1038
37 Chloroform	83	5.658	5 658	(0 856)	1178086	1000 00	907.7
38 1,1,1-Trichloroethane	97	5.847	5 847	(0 884)	1128409	1000.00	972 5
40 1,1-Dichloropropene	75	6.054	6 054	(0.915)	934180	1000.00	972 1
41 Carbon Tetrachloride	117	6.048	6.048	(0.914)	1025581	1000.00	991.7
42 Benzene	78	6 285	6 285	(0.950)	2824565	1000.00	916.1
45 1,2-Dichloroethane	62	6.309	6 309	(0.954)	975535	1000 00	890 4
47 Trichloroethene	130	7 021	7.021	(1.062)	776797	1000.00	963 0
49 1,2-Dichloropropane	63	7 246	7 246	(1.096)	718015	1000.00	947.2
50 Dibromomethane	93	7.368	7.368	(1.114)	401658	1000.00	914.5
53 Bromodichloromethane	83	7.562	7.562	(1 143)	865086	1000 00	964 1
57 cis-1,3-Dichloropropene	75	8 025	8 025	(1 213)	1123605	1000.00	1049
58 4-Methyl-2-Pentanone	43	8 213	8 213	(0 843)	645547	1000.00	1021
60 Toluene	91	8 366	8.366	(0.859)	3148347	1000.00	908.8
61 trans-1,3-Dichloropropene	75	8 597	8 597	(0 883)	990918	1000 00	989 8
63 1,3-Dichloropropane	76	8.937	8 937	(0 918)	1102491	1000.00	909.0
64 1,1,2-Trichloroethane	97	8 779	8.779	(0.901)	584375	1000.00	886 8
65 Tetrachloroethene	164	8.913	8.913	(0.915)	655162	1000 00	931 4
66 2-Hexanone	43	9.047	9 047	(0.929)	505171	1000.00	1139
67 Dibromochloromethane	129	9 169	9 169	(0 941)	705371	1000.00	998.2
68 1,2-Dibromoethane	107	9.260	9.260	(0 951)	603219	1000 00	926 9
70 Chlorobenzene	112	9.765	9.765	(1 002)	2103263	1000 00	900 1
71 1,1,1,2-Tetrachloroethane	131	9.850	9.850	(1.011)	765041	1000.00	961 6
72 Ethylbenzene	106	9 886	9 886	(1 015)	1125235	1000.00	935 4
73 m + p-Xylene	106	10.008	10 008	(1.027)	2838600	2000 00	1854
74 Xylene-o	106	10.391	10 391	(1 067)	1363581	1000.00	959 3
M 75 Xylenes (total)	106				4202181	1000 00	2956
76 Styrene	104	10 410	10.410	(1 069)	2328951	1000 00	963.7
77 Bromoform	173	10 580	10 580	(1 086)	443279	1000 00	1034
78 Isopropylbenzene	105	10.762	10.762	(1 105)	3375883	1000 00	923.8
79 Bromobenzene	156	11 048	11 048	(0 917)	882330	1000 00	932 8
81 n-Propylbenzene	120	11 170	11 170	(0 927)	1006978	1000 00	937 2
82 2-Chlorotoluene	126	11 249	11.249	(0 933)	879833	1000 00	924 2
83 1,1,2,2-Tetrachloroethane	83	11 054	11 054	(0 917)	694508	1000.00	886 4
84 1,2,3-Trichloropropane	110	11 091	11.091	(0 920)	235218	1000 00	889 5
85 4-Chlorotoluene	126	11.359	11.359	(0 942)	926216	1000 00	931.4
86 1,3,5-Trimethylbenzene	105	11.353	11.353	(0.942)	2880962	1000.00	936 5
87 tert-Butylbenzene	119	11.669	11.669	(0 968)	2533442	1000.00	932.2
88 1,2,4-Trimethylbenzene	105	11 718	11 718	(0 972)	2769216	1000 00	925 2

679 156

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	====	==	=====	=====	=====	=====	=====
89 sec-Butylbenzene	105	11.888	11.888	(0.986)	3526035	1000.00	883.2
90 4-Isopropyltoluene	119	12.034	12.034	(0.998)	3273995	1000.00	921.2
91 1,3-Dichlorobenzene	146	11.985	11.985	(0.994)	1714626	1000.00	908.0
93 1,4-Dichlorobenzene	146	12.076	12.076	(1.002)	1759293	1000.00	886.9
94 n-Butylbenzene	91	12.441	12.441	(1.032)	2846437	1000.00	946.3
95 1,2-Dichlorobenzene	146	12.441	12.441	(1.032)	1607824	1000.00	901.9
96 1,2-Dibromo-3-chloropropane	157	13.214	13.214	(1.096)	123227	1000.00	994.4
97 1,2,4-Trichlorobenzene	180	14.047	14.047	(1.166)	924241	1000.00	1053
98 Hexachlorobutadiene	225	14.236	14.236	(1.181)	615269	1000.00	932.0
99 Naphthalene	128	14.285	14.285	(1.185)	1449464	1000.00	1034
100 1,2,3-Trichlorobenzene	180	14.534	14.534	(1.206)	704275	1000.00	999.8

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL-PITTSBURGH

Contract:

679 157

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP6

Calibration Date: 03/22/01 Time: 0747

Lab File ID: 1C60322

Init. Calib. Date(s): 03/22/01 03/22/01

Heated Purge: (Y/N) N

Init. Calib. Times: 0654 0838

GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.336	0.329	0.01	2.1	50.0
Chloromethane	0.349	0.336	0.1	3.7	50.0
Vinyl Chloride	0.292	0.290	0.01	0.7	20.0
Bromomethane	0.080	0.064	0.01	20.0	50.0
Chloroethane	0.095	0.085	0.01	10.5	50.0
Trichlorofluoromethane	0.400	0.199	0.01	50.2	50.0
1,1-Dichloroethene	0.226	0.232	0.01	2.6	20.0
Methylene Chloride	0.229	0.234	0.01	2.2	50.0
trans-1,2-Dichloroethene	0.225	0.236	0.01	4.9	50.0
1,1-Dichloroethane	0.397	0.409	0.1	3.0	50.0
cis-1,2-dichloroethene	0.228	0.243	0.01	6.6	50.0
Chloroform	0.374	0.379	0.01	1.3	20.0
1,1,1-Trichloroethane	0.334	0.338	0.01	1.2	50.0
Carbon Tetrachloride	0.298	0.302	0.01	1.3	50.0
1,2-Dichloroethane	0.316	0.324	0.01	2.5	50.0
Benzene	0.889	0.919	0.01	3.4	50.0
Trichloroethene	0.233	0.241	0.01	3.4	50.0
1,2-Dichloropropane	0.218	0.227	0.01	4.1	20.0
Bromodichloromethane	0.259	0.265	0.01	2.3	50.0
cis-1,3-Dichloropropene	0.309	0.328	0.01	6.1	50.0
Toluene	4.167	4.299	0.01	3.2	20.0
trans-1,3-Dichloropropene	1.204	1.271	0.01	5.6	50.0
1,1,2-Trichloroethane	0.793	0.810	0.01	2.1	50.0
Tetrachloroethene	0.846	0.853	0.01	0.8	50.0
Dibromochloromethane	0.850	0.879	0.01	3.4	50.0
Chlorobenzene	2.811	2.832	0.3	0.7	50.0
Ethylbenzene	1.447	1.462	0.01	1.0	20.0
Styrene	2.907	3.022	0.01	4.0	50.0
Bromoform	0.516	0.546	0.1	5.8	50.0
1,1,2,2-Tetrachloroethane	0.543	0.569	0.3	4.8	50.0
1,3-Dichlorobenzene	1.309	1.330	0.01	1.6	50.0
1,4-Dichlorobenzene	1.375	1.386	0.01	0.8	50.0
1,2-Dichlorobenzene	1.236	1.260	0.01	1.9	50.0
Dibromomethane	0.127	0.129	0.01	1.6	50.0
1,2-Dibromoethane	0.783	0.811	0.01	3.6	50.0
1,2,3-Trichloropropene	0.183	0.197	0.01	7.6	50.0
Naphthalene	0.971	1.183	0.01	21.8	50.0

<-

679 153

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP6

Calibration Date: 03/22/01 Time: 0747

Lab File ID: 1C60322

Init. Calib. Date(s): 03/22/01 03/22/01

Heated Purge: (Y/N) N

Init. Calib. Times: 0654 0838

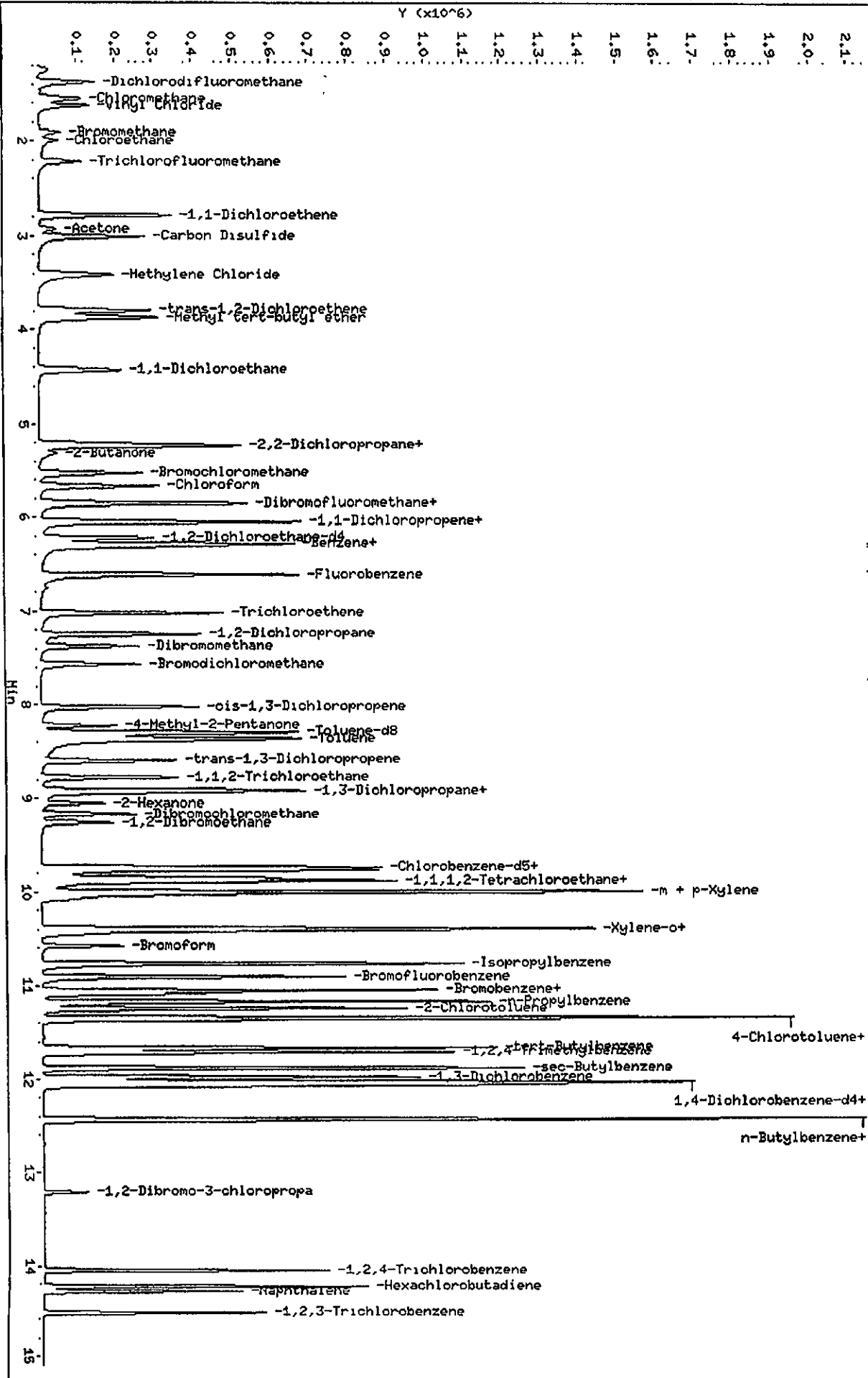
GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Acetone	0.124	0.106	0.01	14.5	50.0
Carbon Disulfide	0.758	0.786	0.01	3.7	50.0
2-Butanone	0.104	0.108	0.01	3.8	50.0
4-Methyl-2-Pentanone	0.760	0.812	0.01	6.8	50.0
2-Hexanone	0.534	0.578	0.01	8.2	50.0
Methyl tert-butyl ether	0.539	0.586	0.01	8.7	50.0
Isopropylbenzene	4.396	4.620	0.01	5.1	50.0
1,2-Dichloroethene (total)	0.226	0.239	0.01	5.8	50.0
Xylenes (total)	1.710	1.767	0.01	3.3	50.0
Dibromofluoromethane	0.234	0.247	0.01	5.6	50.0
1,2-Dichloroethane-d4	0.282	0.291	0.01	3.2	50.0
Toluene-d8	3.964	4.264	0.01	7.6	50.0
Bromofluorobenzene	1.515	1.593	0.01	5.1	50.0

Data File: \\qpltpa02\chem\hpe.1\60322d.b\1060322.D
 Date: 22-MAR-2001 07:47
 Client ID: vstd50
 Sample Info: vstd50 5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hpe.i
 Operator: 16328
 Column diameter: 0.20

\\qpltpa02\chem\hpe.1\60322d.b\1060322.D



STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60322d.b\1C60322.D
 Lab Smp Id: vstd50 Client Smp ID: vstd50
 Inj Date : 22-MAR-2001 07:47
 Operator : 16328 Inst ID: hp6.i
 Smp Info : vstd50 5ml
 Misc Info : vstd50,60322d.b,8260bh2o.m
 Comment :
 Method : \\qpitpa02\d\chem\hp6.i\60322d.b\8260bh2o.m
 Meth Date : 22-Mar-2001 08:57 dudeckk Quant Type: ISTD
 Cal Date : 22-MAR-2001 06:54 Cal File: 1A60322.D
 Als bottle: 19 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 4-dwlistw.sub
 Target Version: 4.04
 Processing Host: PITPC077

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)	ON-COL (ng)
* 46 Fluorobenzene	96	6.609	6.609	(1.000)	764866	250.000	
* 69 Chlorobenzene-d5	119	9.742	9.742	(1.000)	182000	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.053	12.053	(1.000)	314312	250.000	
\$ 39 Dibromofluoromethane	113	5.848	5.848	(0.885)	188676	250.000	263.2
\$ 43 1,2-Dichloroethane-d4	65	6.219	6.219	(0.941)	222543	250.000	258.4
\$ 59 Toluene-d8	98	8.294	8.294	(0.851)	775976	250.000	268.9
\$ 80 Bromofluorobenzene	95	10.910	10.910	(1.120)	289989	250.000	262.8
2 Chloromethane	50	1.553	1.553	(0.235)	256713	250.000	240.2
3 Vinyl Chloride	62	1.620	1.620	(0.245)	221705	250.000	247.8
4 Bromomethane	94	1.900	1.900	(0.288)	49302	250.000	201.9
5 Chloroethane	64	1.985	1.985	(0.300)	65169	250.000	225.1
6 Trichlorofluoromethane	101	2.210	2.210	(0.335)	151920	250.000	124.1 (M)
1 Dichlorodifluoromethane	85	1.365	1.365	(0.207)	251916	250.000	245.3
12 1,1-Dichloroethene	96	2.782	2.782	(0.421)	177362	250.000	256.1
13 Acetone	43	2.928	2.928	(0.443)	81338	250.000	214.2
15 Carbon Disulfide	76	3.007	3.007	(0.455)	601013	250.000	259.3

679 161

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.415	3.415	(0.517)	178739	250.000	255.7
19 trans-1,2-Dichloroethene	96	3.798	3.798	(0.575)	180159	250.000	261.4
20 Methyl tert-butyl ether	73	3.871	3.871	(0.586)	448467	250.000	271.9
24 1,1-Dichloroethane	63	4.425	4.425	(0.670)	312907	250.000	257.4
27 2,2-Dichloropropane	77	5.216	5.216	(0.789)	234334	250.000	262.1
28 cis-1,2-dichloroethene	96	5.234	5.234	(0.792)	185722	250.000	266.7
M 29 1,2-Dichloroethene (total)	96				365881	500.000	528.1
30 Bromochloromethane	128	5.526	5.526	(0.836)	89966	250.000	247.8
31 2-Butanone	43	5.313	5.313	(0.804)	82475	250.000	258.7
37 Chloroform	83	5.660	5.660	(0.856)	289909	250.000	253.3
38 1,1,1-Trichloroethane	97	5.842	5.842	(0.884)	258481	250.000	252.6
40 1,1-Dichloropropene	75	6.043	6.043	(0.914)	226679	250.000	267.5
41 Carbon Tetrachloride	117	6.043	6.043	(0.914)	230727	250.000	253.0
42 Benzene	78	6.274	6.274	(0.949)	703075	250.000	258.6
45 1,2-Dichloroethane	62	6.304	6.304	(0.954)	248274	250.000	257.0
47 Trichloroethene	130	7.016	7.016	(1.062)	184255	250.000	259.0
49 1,2-Dichloropropane	63	7.241	7.241	(1.096)	173597	250.000	259.7
50 Dibromomethane	93	7.369	7.369	(1.115)	98815	250.000	255.1
53 Bromodichloromethane	83	7.558	7.558	(1.144)	202508	250.000	256.0
57 cis-1,3-Dichloropropene	75	8.020	8.020	(1.214)	251279	250.000	266.0
58 4-Methyl-2-Pentanone	43	8.221	8.221	(0.844)	147850	250.000	267.0
60 Toluene	91	8.361	8.361	(0.858)	782456	250.000	257.9
61 trans-1,3-Dichloropropene	75	8.598	8.598	(0.883)	231270	250.000	263.8
63 1,3-Dichloropropane	76	8.933	8.933	(0.917)	274957	250.000	258.9
64 1,1,2-Trichloroethane	97	8.780	8.780	(0.901)	147416	250.000	255.4
65 Tetrachloroethene	164	8.914	8.914	(0.915)	155204	250.000	251.9
66 2-Hexanone	43	9.054	9.054	(0.929)	105163	250.000	270.7
67 Dibromochloromethane	129	9.170	9.170	(0.941)	160017	250.000	258.6
68 1,2-Dibromoethane	107	9.261	9.261	(0.951)	147677	250.000	259.1
70 Chlorobenzene	112	9.766	9.766	(1.002)	515392	250.000	251.9
71 1,1,1,2-Tetrachloroethane	131	9.851	9.851	(1.011)	176672	250.000	253.6
72 Ethylbenzene	106	9.882	9.882	(1.014)	266134	250.000	252.6
73 m + p-Xylene	106	10.003	10.003	(1.027)	677963	500.000	505.7
74 Xylene-o	106	10.393	10.393	(1.067)	321601	250.000	258.3
M 75 Xylenes (total)	106				999564	250.000	803.0
76 Styrene	104	10.405	10.405	(1.068)	550059	250.000	259.9
77 Bromoform	173	10.581	10.581	(1.086)	99380	250.000	264.6
78 Isopropylbenzene	105	10.764	10.764	(1.105)	840895	250.000	262.8
79 Bromobenzene	156	11.050	11.050	(0.917)	213730	250.000	259.3
81 n-Propylbenzene	120	11.171	11.171	(0.927)	246055	250.000	262.8
82 2-Chlorotoluene	126	11.250	11.250	(0.933)	212943	250.000	256.6
83 1,1,2,2-Tetrachloroethane	83	11.056	11.056	(0.917)	178901	250.000	262.0
84 1,2,3-Trichloropropane	110	11.086	11.086	(0.920)	61899	250.000	268.6
85 4-Chlorotoluene	126	11.354	11.354	(0.942)	220168	250.000	254.0
86 1,3,5-Trimethylbenzene	105	11.348	11.348	(0.941)	701047	250.000	261.5
87 tert-Butylbenzene	119	11.670	11.670	(0.968)	629661	250.000	265.8
88 1,2,4-Trimethylbenzene	105	11.719	11.719	(0.972)	683438	250.000	262.0

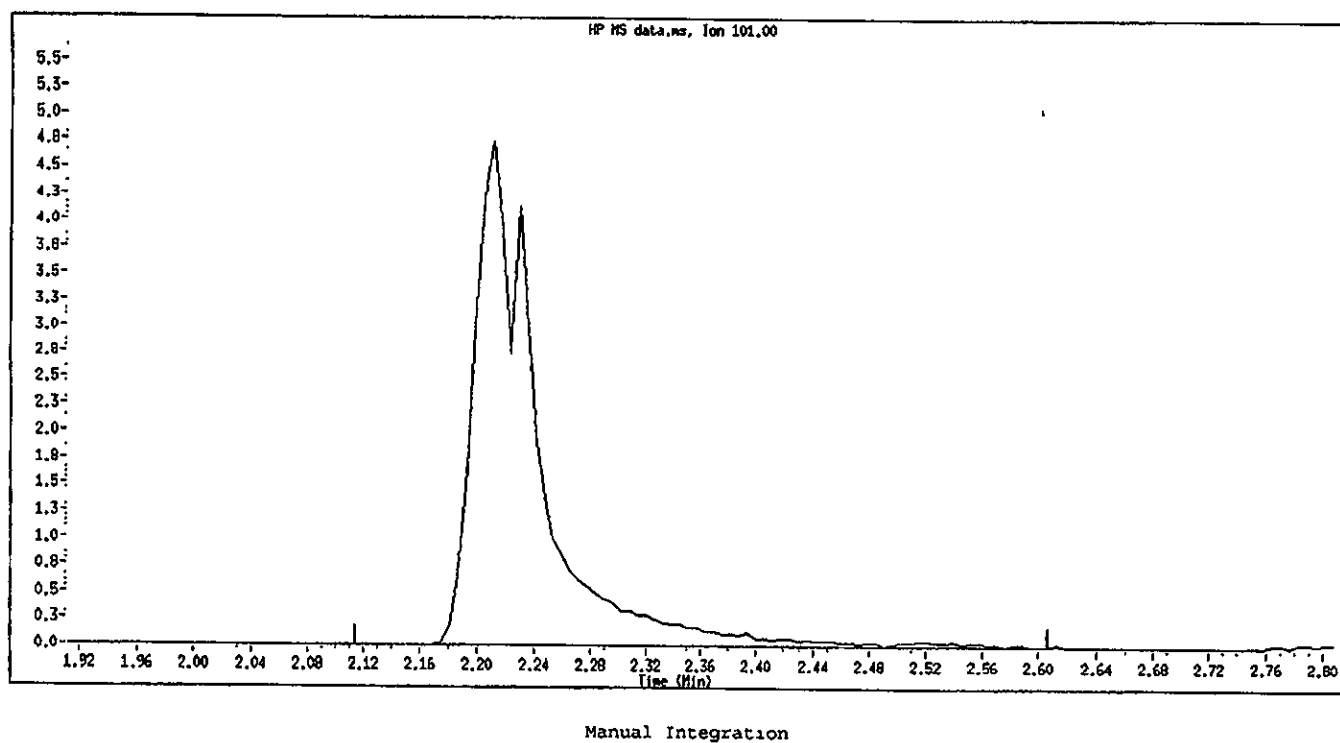
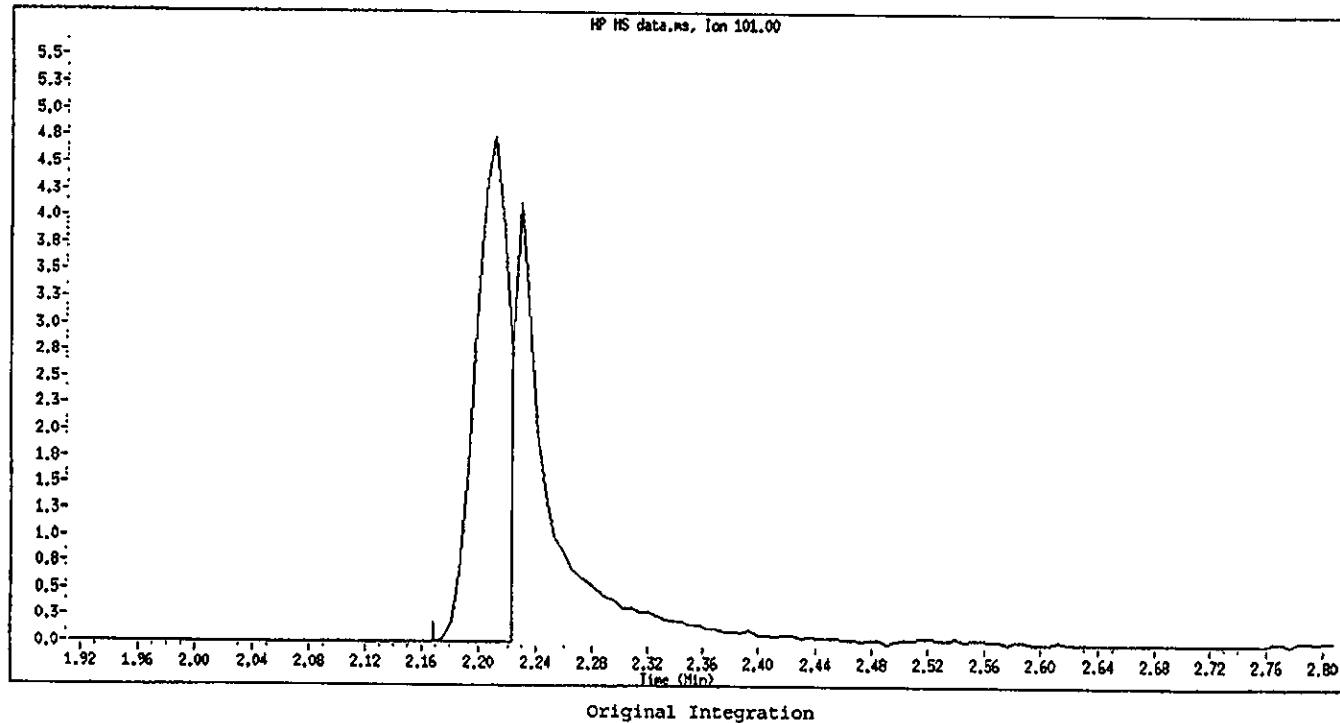
Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====	
89 sec-Butylbenzene	105	11.883	11.883	(0.986)	919679	250.000	264.3	
90 4-Isopropyltoluene	119	12.035	12.035	(0.998)	807498	250.000	260.7	
91 1,3-Dichlorobenzene	146	11.986	11.986	(0.994)	418174	250.000	254.1	
93 1,4-Dichlorobenzene	146	12.072	12.072	(1.002)	435645	250.000	252.0	
94 n-Butylbenzene	91	12.437	12.437	(1.032)	696615	250.000	265.7	
95 1,2-Dichlorobenzene	146	12.437	12.437	(1.032)	396177	250.000	255.0	
96 1,2-Dibromo-3-chloropropane	157	13.215	13.215	(1.096)	29783	250.000	275.8	
97 1,2,4-Trichlorobenzene	180	14.049	14.049	(1.166)	212328	250.000	277.6	
98 Hexachlorobutadiene	225	14.231	14.231	(1.181)	150470	250.000	261.5	
99 Naphthalene	128	14.286	14.286	(1.185)	371853	250.000	304.5	
100 1,2,3-Trichlorobenzene	180	14.529	14.529	(1.205)	170791	250.000	278.2	

QC Flag Legend

M - Compound response manually integrated.

Data File Name: 1C60322 D
Inj. Date and Time 22-MAR-2001 07 47
Instrument ID: hp6.1
Client ID: vstd50
Compound Name: Trichlorofluoromethane
CAS # 75-69-4
Report Date: 03/22/2001

679 163



Manually Integrated By: DudeckK
Manual Integration Reason: Peak Not Found

K₃/22/01
VKG
3/23/01

679 164

GC/MS VOLATILE
QC DATA

Date : 22-MAR-2001 06:27

Client ID: 25NGBF8

Instrument: hp6.1

679 165

Sample Info: bfb 1ul inj.

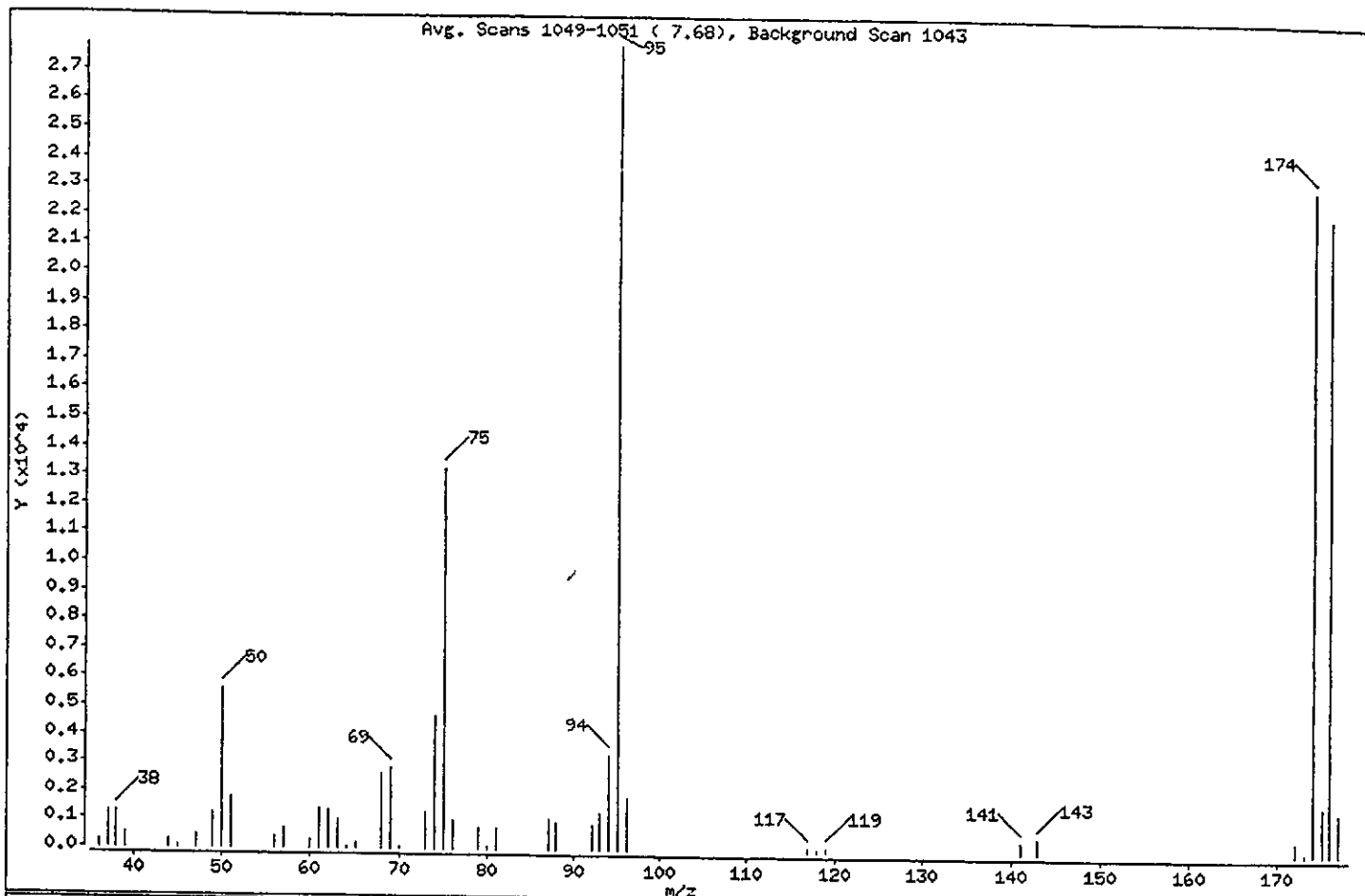
Volume Injected (uL): 1.0

Operator: 16328

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	19.92
75	30.00 - 60.00% of mass 95	47.65
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.27 (0.33)
174	50.00 - 100.00% of mass 95	82.96
175	5.00 - 9.00% of mass 174	6.01 (7.24)
176	95.00 - 101.00% of mass 174	79.53 (95.86)
177	5.00 - 9.00% of mass 176	5.39 (6.78)

Data File: \\QPITPA02\N\chem\hp6.1\60322d.b\BF60322.D

Page 3

Date : 22-MAR-2001 06:27

Client ID: 25NGBFB

Instrument: hp6.1

Sample Info: bfb 1ul inj

Volume Injected (uL): 1.0

Operator: 16328

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF60322.D

Spectrum: Avg. Scans 1049-1051 (7.68), Background Scan 1043

Location of Maximum: 95.00

Number of points: 46

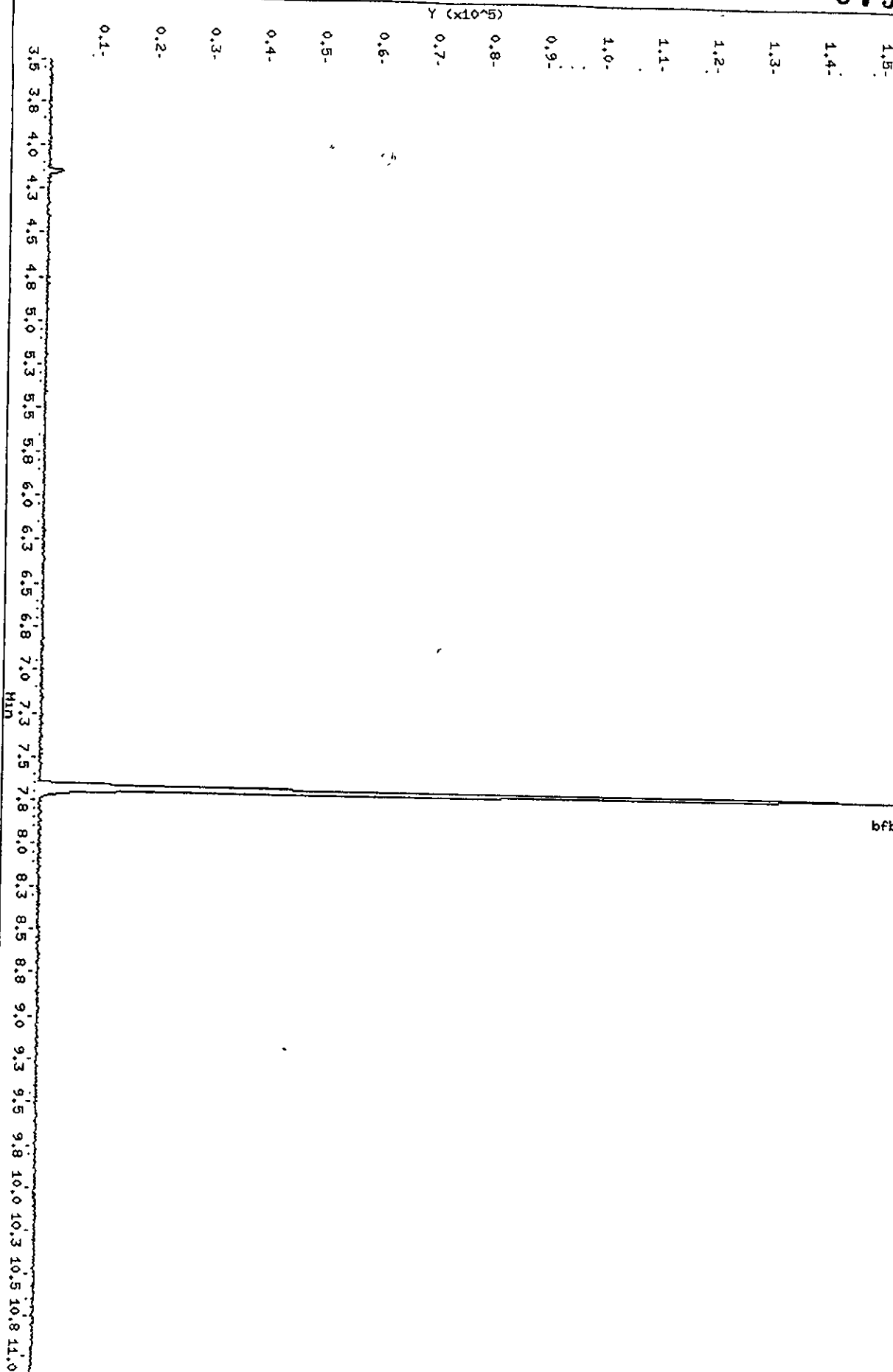
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	237	60.00	226	76.00	1051	118.00	67
37.00	1269	61.00	1398	79.00	759	119.00	142
38.00	1295	62.00	1338	80.00	144	141.00	377
39.00	544	63.00	1020	81.00	742	143.00	495
44.00	277	64.00	67	87.00	1109	172.00	434
45.00	90	65.00	172	88.00	958	173.00	76
47.00	417	68.00	2658	92.00	918	174.00	23136
49.00	1187	69.00	2815	93.00	1290	175.00	1675
50.00	5555	70.00	78	94.00	3338	176.00	22184
51.00	1800	73.00	1307	95.00	27888	177.00	1503
56.00	385	74.00	4676	96.00	1859		
57.00	728	75.00	13291	117.00	160		

Data File: \QPIIPA02\chem\hpe.1\60322d.b\BF60322.D
 Date : 22-MAR-2001 06:27
 Client ID: 25NGBFB
 Sample Info: hfb 1ul inJ
 Volume Injected (ul): 1.0
 Column phase: DB624 20m

Instrument: hpe.1
 Operator: 16328
 Column diameter: 0.20

\\QPIIPA02\chem\hpe.1\60322d.b\BF60322.D

g



Date : 22-MAR-2001 06:27

Client ID: 25NGBF8

Instrument: hp6.1

Sample Info: bfb 1ul inj

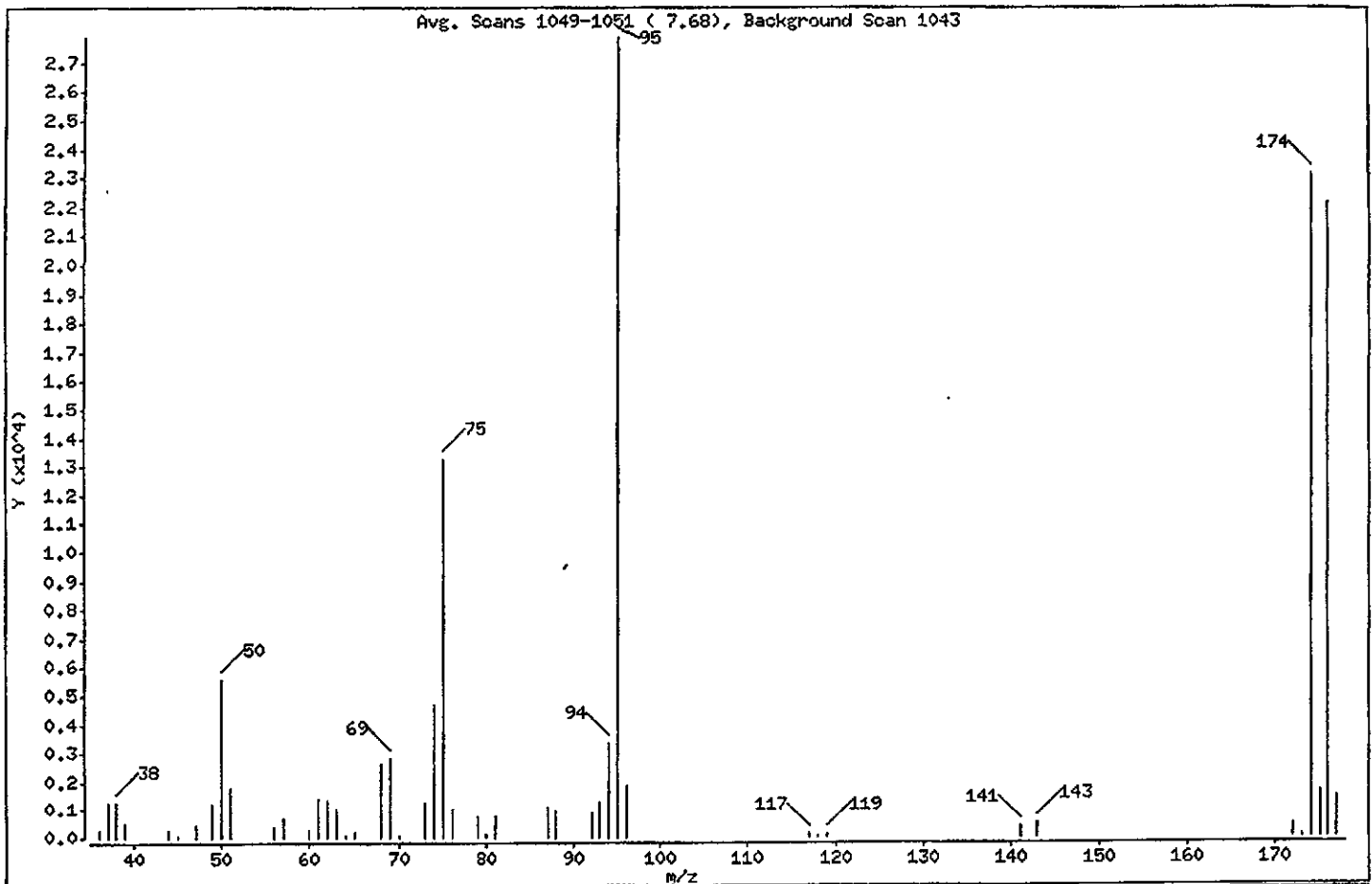
Volume Injected (uL): 1.0

Operator: 16328

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	19.92
75	30.00 - 60.00% of mass 95	47.65
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.27 (0.33)
174	50.00 - 100.00% of mass 95	82.96
175	5.00 - 9.00% of mass 174	6.01 (7.24)
176	95.00 - 101.00% of mass 174	79.53 (95.86)
177	5.00 - 9.00% of mass 176	5.39 (6.78)

Date : 22-MAR-2001 06:27

Client ID: 25NGBFB

Instrument: hp6.1

679 169

Sample Info: bfb 1ul inj

Volume Injected (uL): 1.0

Operator: 16328

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF60322.D

Spectrum: Avg. Scans 1049-1051 (7.68), Background Scan 1043

Location of Maximum: 95.00

Number of points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	237	60.00	226	76.00	1051	118.00	67
37.00	1269	61.00	1398	79.00	759	119.00	142
38.00	1295	62.00	1338	80.00	144	141.00	377
39.00	544	63.00	1020	81.00	742	143.00	495
44.00	277	64.00	67	87.00	1109	172.00	434
45.00	90	65.00	172	88.00	958	173.00	76
47.00	417	68.00	2658	92.00	918	174.00	23136
49.00	1187	69.00	2815	93.00	1290	175.00	1675
50.00	5555	70.00	78	94.00	3338	176.00	22184
51.00	1800	73.00	1307	95.00	27888	177.00	1503
56.00	385	74.00	4676	96.00	1859		
57.00	728	75.00	13291	117.00	160		

Data File: \\QPITPA02\chem\hp6.i\60322d.b\BF60322.D
Date : 22-MAR-2004 06:27

679 170

Page 1

Client ID: 25NCFB
Sample Info: bfb lul inj
Volume Injected (ul): 1.0
Column phase: DB624 20m

Instrument: hp6.1
Operator: 16328
Column diameter: 0.20

\\QPITPA02\chem\hp6.i\60322d.b\BF60322.D

1.5

1.4

1.3

1.2

1.1

1.0

0.9

0.8

0.7

0.6

0.5

0.4

0.3

0.2

0.1

3.5 3.8 4.0 4.3 4.5 4.8 5.0 5.3 5.5 5.8 6.0 6.3 6.5 6.8 7.0 7.3 7.5 7.8 8.0 8.3 8.5 8.8 9.0 9.3 9.5 9.8 10.0 10.3 10.5 10.8 11.0

min

(x10⁻⁵)

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C220000 349

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRPF1AA

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

Client Sample Id: INTRA-LAB BLANK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	20	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	20	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
591-78-6	2-Hexanone	20	U
75-09-2	Methylene chloride	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U

679 172

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220000 349

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRPF1AA

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

Client Sample Id: INTRA-LAB BLANK

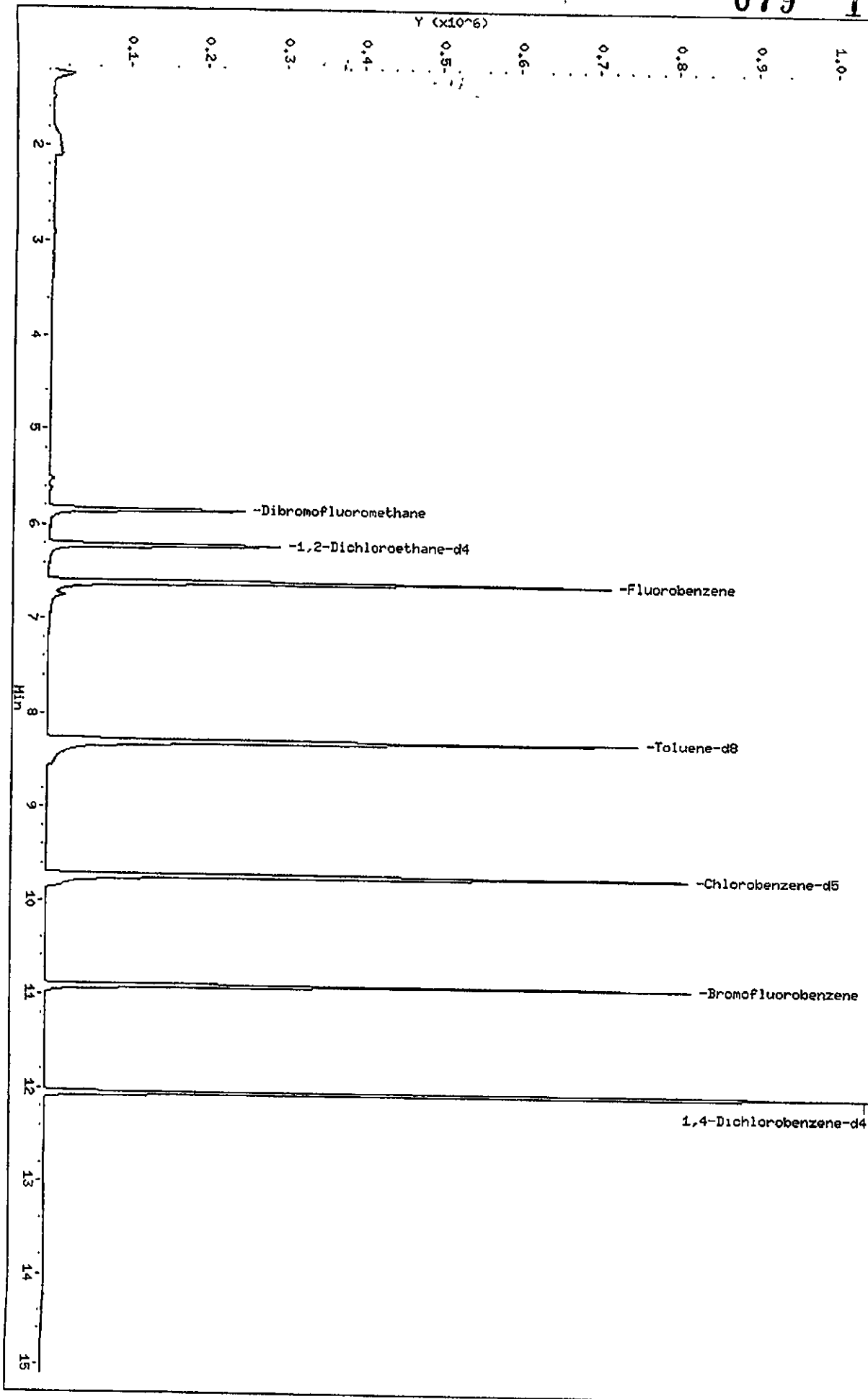
CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	5.0	U

FORM I

Data File: \\ppitpa02\chem\hp6.1\60322d.b\6032205.D
Date: 22-MAR-2001 11:39
Client ID:
Sample Info: volk 5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp6.1
Operator: 16328
Column diameter: 0.20

\\ppitpa02\chem\hp6.1\60322d.b\6032205.D



Data File: \\qpitpa02\d\chem\hp6.i\60322d.b\6032205.D
 Report Date: 22-Mar-2001 13:42

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60322d.b\6032205.D

Lab Smp Id:

Inj Date : 22-MAR-2001 11:39

Operator : 16328

Inst ID: hp6.i

Smp Info : vblk 5ml

Misc Info : ,60322d.b,8260bh2o.m

Comment :

Method : \\QPITPA02\D\chem\hp6.i\60322d.b\8260bh2o.m

Meth Date : 22-Mar-2001 09:14 dudeckk

Quant Type: ISTD

Cal Date : 22-MAR-2001 08:38

Cal File: 1E60322.D

Als bottle: 27

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 4-dwlistw.sub

Target Version: 4.04

Processing Host: QPITPA02

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	6.607	6.609	(1.000)	812576	250.000	
* 69 Chlorobenzene-d5	119	9.734	9.742	(1.000)	192302	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.051	12.053	(1.000)	302880	250.000	
\$ 39 Dibromofluoromethane	113	5.846	5.848	(0.885)	176626	231.893	46.38
\$ 43 1,2-Dichloroethane-d4	65	6.217	6.219	(0.941)	232398	253.972	50.79
\$ 59 Toluene-d8	98	8.292	8.294	(0.852)	753883	247.246	49.45
\$ 80 Bromofluorobenzene	95	10.902	10.910	(1.120)	279208	239.504	47.90
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
1 Dichlorodifluoromethane	85	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
13 Acetone	43	Compound Not Detected.					
15 Carbon Disulfide	76	Compound Not Detected.					

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN FINAL (ng) (UG/L)
-----	----	----	--	-----	-----	-----	-----
18 Methylene Chloride		84				Compound Not Detected.	
19 trans-1,2-Dichloroethene		96				Compound Not Detected.	
20 Methyl tert-butyl ether		73				Compound Not Detected.	
24 1,1-Dichloroethane		63				Compound Not Detected.	
27 2,2-Dichloropropane		77				Compound Not Detected.	
28 cis-1,2-dichloroethene		96				Compound Not Detected.	
M 29 1,2-Dichloroethene (total)		96				Compound Not Detected.	
30 Bromochloromethane		128				Compound Not Detected.	
31 2-Butanone		43				Compound Not Detected.	
37 Chloroform		83				Compound Not Detected.	
38 1,1,1-Trichloroethane		97				Compound Not Detected.	
40 1,1-Dichloropropene		75				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.	
49 1,2-Dichloropropane		63				Compound Not Detected.	
50 Dibromomethane		93				Compound Not Detected.	
53 Bromodichloromethane		83				Compound Not Detected.	
57 cis-1,3-Dichloropropene		75				Compound Not Detected.	
58 4-Methyl-2-Pentanone		43				Compound Not Detected.	
60 Toluene		91				Compound Not Detected.	
61 trans-1,3-Dichloropropene		75				Compound Not Detected.	
63 1,3-Dichloropropane		76				Compound Not Detected.	
64 1,1,2-Trichloroethane		97				Compound Not Detected.	
65 Tetrachloroethene		164				Compound Not Detected.	
66 2-Hexanone		43				Compound Not Detected.	
67 Dibromochloromethane		129				Compound Not Detected.	
68 1,2-Dibromoethane		107				Compound Not Detected.	
70 Chlorobenzene		112				Compound Not Detected.	
71 1,1,1,2-Tetrachloroethane		131				Compound Not Detected.	
72 Ethylbenzene		106				Compound Not Detected.	
73 m + p-Xylene		106				Compound Not Detected.	
74 Xylene-o		106				Compound Not Detected.	
M 75 Xylenes (total)		106				Compound Not Detected.	
76 Styrene		104				Compound Not Detected.	
77 Bromoform		173				Compound Not Detected.	
78 Isopropylbenzene		105				Compound Not Detected.	
79 Bromobenzene		156				Compound Not Detected.	
81 n-Propylbenzene		120				Compound Not Detected.	
82 2-Chlorotoluene		126				Compound Not Detected.	
83 1,1,2,2-Tetrachloroethane		83				Compound Not Detected.	
84 1,2,3-Trichloropropane		110				Compound Not Detected.	
85 4-Chlorotoluene		126				Compound Not Detected.	
86 1,3,5-Trimethylbenzene		105				Compound Not Detected.	
87 tert-Butylbenzene		119				Compound Not Detected.	
88 1,2,4-Trimethylbenzene		105				Compound Not Detected.	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
*****	***	**	*****	*****	*****	*****	*****
89 sec-Butylbenzene	105		Compound	Not	Detected		
90 4-Isopropyltoluene	119		Compound	Not	Detected		
91 1,3-Dichlorobenzene	146		Compound	Not	Detected.		
93 1,4-Dichlorobenzene	146		Compound	Not	Detected.		
94 n-Butylbenzene	91		Compound	Not	Detected.		
95 1,2-Dichlorobenzene	146		Compound	Not	Detected.		
96 1,2-Dibromo-3-chloropropane	157		Compound	Not	Detected.		
97 1,2,4-Trichlorobenzene	180		Compound	Not	Detected.		
98 Hexachlorobutadiene	225		Compound	Not	Detected.		
99 Naphthalene	128		Compound	Not	Detected.		
100 1,2,3-Trichlorobenzene	180		Compound	Not	Detected.		

679 177

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C220000 349

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/22/01

Work Order: DXRPF1AC

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/22/01

Moisture %: NA

QC Batch: 1081349

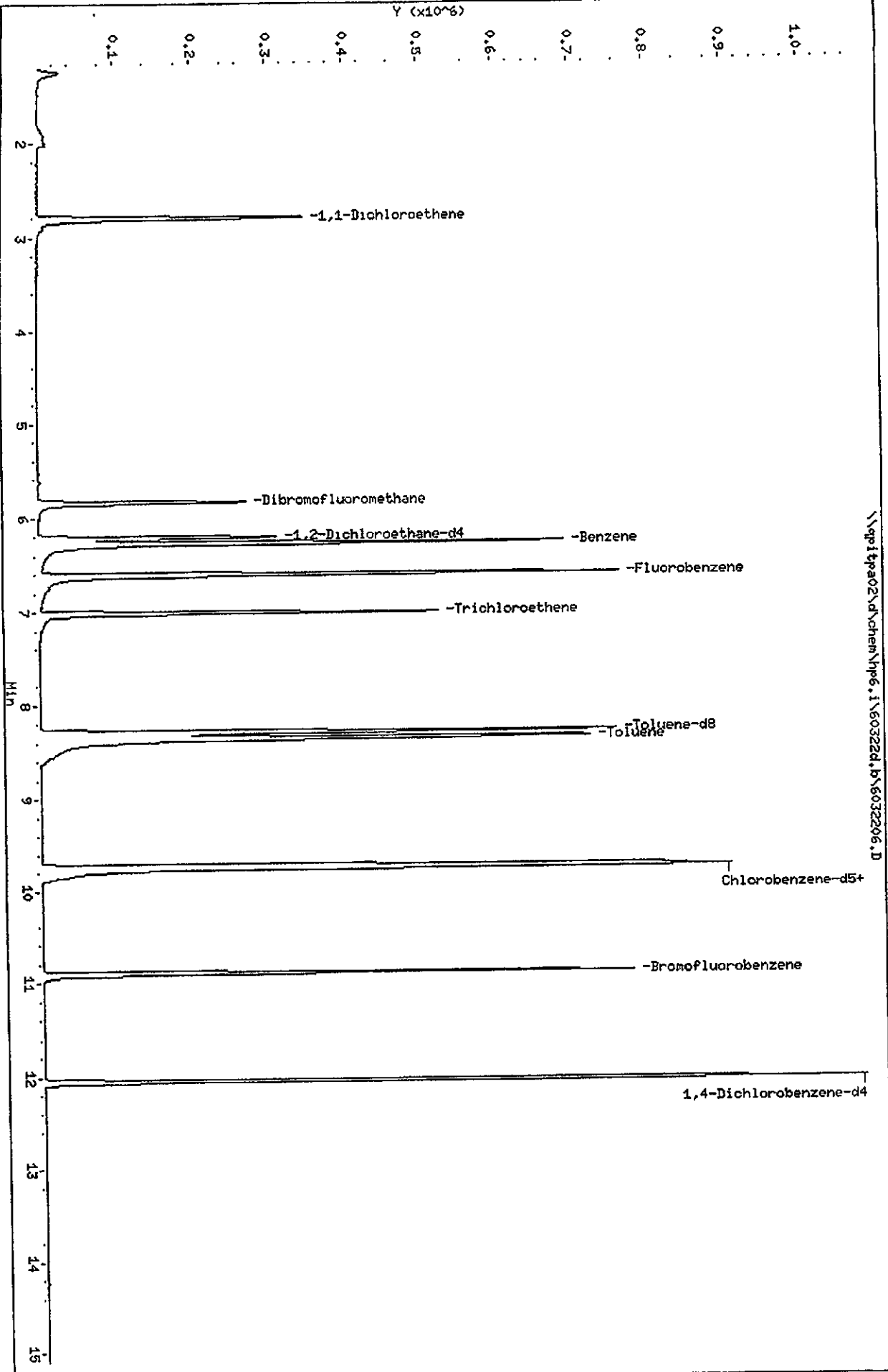
Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
71-43-2	Benzene	49.1	
108-90-7	Chlorobenzene	47.3	
75-35-4	1,1-Dichloroethene	49.0	
108-88-3	Toluene	49.5	
79-01-6	Trichloroethene	49.8	

FORM I

Data File: \\spitpa02\chem\hp6.i\60322d.b\6032206.D
Date: 22-MAR-2001 12:08
Client ID:
Sample Info: blk ms 5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp6.i
Operator: 16328
Column diameter: 0.20



679 179

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp6.i\60322d.b\6032206.D

Lab Smp Id:

Inj Date : 22-MAR-2001 12:08

Operator : 16328

Inst ID: hp6.i

Smp Info : blk ms 5ml

Misc Info : ,60322d.b,8260bh2o.m

Comment :

Method : \\QPITPA02\D\chem\hp6.i\60322d.b\8260bh2o.m

Meth Date : 22-Mar-2001 09:14 dudeckk

Quant Type: ISTD

Cal Date : 22-MAR-2001 08:38

Cal File: 1E60322.D

Als bottle: 28

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 4-dwlistw.sub

Target Version: 4.04

Processing Host: QPITPA02

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	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)
-----	----	----	----	-----	-----	-----	-----
* 46 Fluorobenzene	96	6.614	6.609	(1.000)	848068	250.000	
* 69 Chlorobenzene-d5	119	9.735	9.742	(1.000)	189633	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.053	12.053	(1.000)	297242	250.000	
\$ 39 Dibromofluoromethane	113	5.847	5.848	(0.884)	189452	238 322	47.66
\$ 43 1,2-Dichloroethane-d4	65	6.218	6.219	(0.940)	243912	255 399	51 08
\$ 59 Toluene-d8	98	8.293	8.294	(0.852)	776483	258.242	51 65
\$ 80 Bromofluorobenzene	95	10.903	10.910	(1.120)	275530	239 676	47 94
2 Chloromethane	50	Compound Not Detected					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
1 Dichlorodifluoromethane	85	Compound Not Detected.					
12 1,1-Dichloroethene	96	2.806	2.782	(0.424)	188322	245 251	49.05
13 Acetone	43	Compound Not Detected					
15 Carbon Disulfide	76	Compound Not Detected					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
18 Methylene Chloride	84				Compound Not Detected.		
19 trans-1,2-Dichloroethene	96				Compound Not Detected		
20 Methyl tert-butyl ether	73				Compound Not Detected		
24 1,1-Dichloroethane	63				Compound Not Detected.		
27 2,2-Dichloropropane	77				Compound Not Detected.		
28 cis-1,2-dichloroethene	96				Compound Not Detected.		
M 29 1,2-Dichloroethene (total)	96				Compound Not Detected.		
30 Bromochloromethane	128				Compound Not Detected.		
31 2-Butanone	43				Compound Not Detected.		
37 Chloroform	83				Compound Not Detected.		
38 1,1,1-Trichloroethane	97				Compound Not Detected.		
40 1,1-Dichloropropene	75				Compound Not Detected.		
41 Carbon Tetrachloride	117				Compound Not Detected.		
42 Benzene	78	6.279	6.274	(0.949)	740039	245.501	49 10
45 1,2-Dichloroethane	62				Compound Not Detected.		
47 Trichloroethene	130	7.015	7.016	(1.061)	196176	248.741	49 75
49 1,2-Dichloropropane	63				Compound Not Detected.		
50 Dibromomethane	93				Compound Not Detected.		
53 Bromodichloromethane	83				Compound Not Detected		
57 cis-1,3-Dichloropropene	75				Compound Not Detected.		
58 4-Methyl-2-Pentanone	43				Compound Not Detected.		
60 Toluene	91	8.360	8.361	(0.859)	783027	247.703	49.54
61 trans-1,3-Dichloropropene	75				Compound Not Detected.		
63 1,3-Dichloropropane	76				Compound Not Detected		
64 1,1,2-Trichloroethane	97				Compound Not Detected		
65 Tetrachloroethene	164				Compound Not Detected.		
66 2-Hexanone	43				Compound Not Detected.		
67 Dibromochloromethane	129				Compound Not Detected.		
68 1,2-Dibromoethane	107				Compound Not Detected.		
70 Chlorobenzene	112	9.759	9.766	(1.002)	503894	236.332	47.27
71 1,1,1,2-Tetrachloroethane	131				Compound Not Detected		
72 Ethylbenzene	106				Compound Not Detected.		
73 m + p-Xylene	106				Compound Not Detected.		
74 Xylene-o	106				Compound Not Detected.		
M 75 Xylenes (total)	106				Compound Not Detected.		
76 Styrene	104				Compound Not Detected.		
77 Bromoform	173				Compound Not Detected.		
78 Isopropylbenzene	105				Compound Not Detected.		
79 Bromobenzene	156				Compound Not Detected.		
81 n-Propylbenzene	120				Compound Not Detected		
82 2-Chlorotoluene	126				Compound Not Detected.		
83 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
84 1,2,3-Trichloropropane	110				Compound Not Detected.		
85 4-Chlorotoluene	126				Compound Not Detected.		
86 1,3,5-Trimethylbenzene	105				Compound Not Detected.		
87 tert-Butylbenzene	119				Compound Not Detected.		
88 1,2,4-Trimethylbenzene	105				Compound Not Detected		

Data File: \\gpitpa02\d\chem\hp6.i\60322d.b\6032206.D
Report Date: 22-Mar-2001 13:43

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (UG/L)
89 sec-Butylbenzene	105	Compound Not Detected.					
90 4-Isopropyltoluene	119	Compound Not Detected.					
91 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					
94 n-Butylbenzene	91	Compound Not Detected.					
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
96 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
100 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

679 182

GC/MS VOLATILE
MISCELLANEOUS

1 Method

Valvol

Standard

85-006-4 OFR

Standard

85-003-4 Sw

Inst ID

HP-6

Analyst

KLD

Reviewed by

Date

Standard

85-003-3 DUT

Standard

85-007-1 VIA

Standard

Standard

Standard

Standard

Date

File ID

Lot No / Sample No

Vol./Ml

pH

Port #

Comments

3/22/01

1. BF60322

BFG

1.0

627

Reg.

2. 1A60322

VSTD5

5.0

3. 1G60322

VSTD20

5.0

4. 1C60322

VSTD50

5.0

5. 1D60322

VSTD100

5.0

6. 1E60322

VSTD200

5.0

7. 1F60322

VBLK

5.0

8.

9.

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.

21.

22.

Method	Inst ID	Analyst	Reviewed by	Date		
Labels	HP-6	KLD				
Standard	Standard:	Standard:	Standard	Standard		
85-006-4 OFB	85-003-4 Sm					
Standard	Standard:	Standard	Standard:	Standard		
85-003-3 DUT	85-007-1 VIA					
Date	File ID	Lot No./Sample No.	Vol./Ml.	pH	Port #	Comments
3/22/01	1. BF60322	BF6	1.0			627 Reg.
	2. 1A60322	VSTDS	5.0			
	3. 1B60322	VSTDS	5.0			
	4. 1C60322	VSTDS	5.0			
	5. 1D60322	VSTDS	5.0			
	6. 1E60322	VSTDS	5.0			
	7. 1F60322	VBLK	5.0			
	8. 6032201	VBLK	100.0(5.0/5.0)/5.0			32124 109126
	9. 6032202	BKMS	100.0(5.0/5.0)/5.0			32125
	10. 6032203	BKMS	100.0(5.0/5.0)/5.0			32126
	11. 6032204	CIC21011-021	100.0(5.0/5.0)/5.0			32127
	12. 6032205	VBLK	5.0			1091349
	13. 6032206	BKMS	5.0			
	14. 6032207	CIC220149-001	5.0	6		
	15. 6032208	-001 MS	5.0	6		
	16. 6032209	-001 MS	5.0	6		
	17. 6032210	CIC120103-001	5.0	7		
	18. 6032211	CIC210124-001	112.5(5.0/5.0)/5.0	1		new 27
	19. 6032212	VBLK	5.0			
	20. 6032217	CIC210149-001	112.5(5.0/5.0)/5.0	1		
	21.					
	22.					

REQUESTED BY GORDONK

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

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	
										RCVD	REQD
14A,CLP1	DXPK3-1-AA		322090	399411	I-15-QK C1C210184	001			WATER	0	13

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Cup 1	Karl Dell	3/22/01 1330
Karl Dell	Cup 1	3/22/01 1520

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

679 186

GC/MS SEMIVOLATILE DATA

GC/MS SEMIVOLATILE
QC SUMMARY

679 188

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C210184

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/24-B/1079/IDW/006	9.3*	0.0*	84	0.0*	0.0*	0.0*	05
02	METHOD BLK. DXV8P1AA	77	83	81	79	77	73	00
03	LCS DXV8P1AC	69	74	73	68	70	61	00
04	LCSD DXV8P1AD	56	67	64	73	58	54	00

SURROGATES

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

QC LIMITS

(10-113)
 (30-110)
 (32-112)
 (10-144)
 (13-110)
 (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: STLPIT

SDG No:

Lot #: C1C230000

WO #: DXV8P1AC

BATCH: 1082316

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Phenol	75.0	53.3	71	10 - 131	
2-Chlorophenol	75.0	57.1	76	19 - 124	
1,4-Dichlorobenzene	50.0	36.8	74	28 - 110	
N-Nitrosodi-n-propylamine	50.0	36.5	73	30 - 115	
1,2,4-Trichlorobenzene	50.0	36.8	74	31 - 110	
4-Chloro-3-methylphenol	75.0	56.0	75	29 - 124	
Acenaphthene	50.0	37.4	75	39 - 118	
4-Nitrophenol	75.0	52.1	69	19 - 144	
2,4-Dinitrotoluene	50.0	35.7	71	47 - 131	
Pentachlorophenol	75.0	56.8	76	10 - 140	
Pyrene	50.0	32.6	65	46 - 130	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

679 190

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPTIT

SDG No:

Lot #: C1C230000

WO #: DXV8P1AD

BATCH: 1082316

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	44.3	59	10 - 131	
2-Chlorophenol	75.0	48.1	64	19 - 124	
1,4-Dichlorobenzene	50.0	32.8	66	28 - 110	
N-Nitrosodi-n-propylamine	50.0	30.3	61	30 - 115	
1,2,4-Trichlorobenzene	50.0	33.5	67	31 - 110	
4-Chloro-3-methylphenol	75.0	44.1	59	29 - 124	
Acenaphthene	50.0	32.8	66	39 - 118	
4-Nitrophenol	75.0	35.3	47	19 - 144	p
2,4-Dinitrotoluene	50.0	27.6	55	47 - 131	
Pentachlorophenol	75.0	35.9	48	10 - 140	
Pyrene	50.0	36.7	73	46 - 130	

NOTES(S) :

p Relative percent difference (RPD) is outside stated control limits

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXV8P1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

679 191

Lab File ID: F0326020.

Lot Number: C1C210184

Date Analyzed: 03/26/01

Time Analyzed: 14:23

Matrix: WATER

Date Extracted: 03/22/01

GC Column: HP5MS ID: .25

Extraction Method: 3520C

Instrument ID: 722

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/24-B/1079/IDW/006	DXPK31AC	F0326011.	03/26/01	16:01
02	CHECK SAMPLE	DXV8P1AC C	F0326009.	03/26/01	14:56
03	DUPLICATE CHECK	DXV8P1AD L	F0326068.	03/26/01	23:56
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

679 192

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: _

Lab File ID: F0226DF2

DFTPP Injection Date: 02/26/01

Instrument ID: 722

DFTPP Injection Time: 1046

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	40.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	26.1
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than mass 443	10.6
442	40.0 - 100.0% of mass 198	65.6
443	17.0 - 23.0% of mass 442	12.6 (19.2)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	F02260C2	02/26/01	1104
02	SSTD020	SSTD020	F02260C3	02/26/01	1147
03	SSTD080	SSTD080	F02260C4	02/26/01	1221
04	SSTD120	SSTD120	F02260C5	02/26/01	1254
05	SSTD160	SSTD160	F02260C6	02/26/01	1328
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH

Contract:

679 193

Lab Code:

Case No.:

SAS No.:

SDG No.: _

Lab File ID: F0327DF1

DFTPP Injection Date: 03/27/01

Instrument ID: 722

DFTPP Injection Time: 1148

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	43.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	26.2
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than mass 443	10.1
442	40.0 - 100.0% of mass 198	61.7
443	17.0 - 23.0% of mass 442	12.0 (19.4)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	F03270C2	03/27/01	1238
02	SSTD020	SSTD020	F03270C3	03/27/01	1313
03	SSTD080	SSTD080	F03270C4	03/27/01	1345
04	SSTD120	SSTD120	F03270C5	03/27/01	1418
05	SSTD160	SSTD160	F03270C6	03/27/01	1451
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

679 194

FORM 5

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

C1C21084

Lab File ID: F0326DF1

DFTPP Injection Date: 03/26/01

Instrument ID: 722

DFTPP Injection Time: 0827

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	42.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	50.3
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	7.4
275	10.0 - 30.0% of mass 198	26.5
365	Greater than 1.0% of mass 198	4.01
441	Present, but less than mass 443	10.6
442	40.0 - 100.0% of mass 198	67.8
443	17.0 - 23.0% of mass 442	13.4 (19.8)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	F03260C2	03/26/01	0920
02	INTRA-LAB BL	DXV8P1AA	F0326020	03/26/01	1423
03	INTRA-LAB CH	DXV8P1AC	F0326009	03/26/01	1456
04	DF/24-B/1079	DXPK31AC	F0326011	03/26/01	1601
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)

679 195

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C102184

Lab File ID: F0326DFN

DFTPP Injection Date: 03/26/01

Instrument ID: 722

DFTPP Injection Time: 2055

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	42.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.3
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	6.7
275	10.0 - 30.0% of mass 198	26.3
365	Greater than 1.0% of mass 198	3.97
441	Present, but less than mass 443	10.7
442	40.0 - 100.0% of mass 198	67.0
443	17.0 - 23.0% of mass 442	12.8 (19.1)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	F03260CN	03/26/01	2147
02	INTRA-LAB CH	DXV8P1AD	F0326068	03/26/01	2356
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

679 196 SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

FORM 8

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C162184

Lab File ID (Standard): F03260C2

Date Analyzed: 03/26/01

Instrument ID: 722

Time Analyzed: 0920

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	173497	5.02	669622	6.55	370538	9.56
UPPER LIMIT	346994	5.52	1339244	7.05	741076	10.06
LOWER LIMIT	86749	4.52	334811	6.05	185269	9.06
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	169013	5.02	677713	6.54	408686	9.55
02 INTRA-LAB CH	173405	5.02	708922	6.54	420820	9.55
03 DF/24-B/1079	158823	5.02	636757	6.54	247659	9.55
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

679 197

Lab Name: STL PITTSBURGH

Contract:

Lab Code: Case No.:

SAS No.:

SDG No.:

C1C26184

Lab File ID (Standard): F03260C2

Date Analyzed: 03/26/01

Instrument ID: 722

Time Analyzed: 0920

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	660452	12.86	752422	19.48	686864	22.83
UPPER LIMIT	1320904	13.36	1504844	19.98	1373728	23.33
LOWER LIMIT	330226	12.36	376211	18.98	343432	22.33
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	786374	12.84	1034279	19.46	1205693	22.81
02 INTRA-LAB CH	805252	12.84	1078648	19.46	1282614	22.81
03 DF/24-B/1079	692917	12.84	967054	19.47		
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

679 198

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

C1021484

Lab File ID (Standard): F03260CN

Date Analyzed: 03/26/01

Instrument ID: 722

Time Analyzed: 2147

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	226555	5.01	847666	6.53	433967	9.53
UPPER LIMIT	453110	5.51	1695332	7.03	867934	10.03
LOWER LIMIT	113278	4.51	423833	6.03	216984	9.03
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB CH	219145	5.02	858965	6.54	465067	9.54
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

679 199

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

CIC 2/10/84

Lab File ID (Standard): F03260CN

Date Analyzed: 03/26/01

Instrument ID: 722

Time Analyzed: 2147

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	690585	12.82	663369	19.44	641208	22.79
UPPER LIMIT	1381170	13.32	1326738	19.94	1282416	23.29
LOWER LIMIT	345293	12.32	331685	18.94	320604	22.29
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB CH	745424	12.83	648624	19.45	593440	22.81
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

679 200

**GC/MS SEMIVOLATILE
SAMPLE DATA**

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXPK31AC

Date Extracted: 03/22/01

Dilution factor: 10

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: DF/24-B/1079/IDW/006

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
110-86-1	Pyridine	200	U
83-32-9	Acenaphthene	100	U
208-96-8	Acenaphthylene	100	U
120-12-7	Anthracene	100	U
56-55-3	Benzo(a)anthracene	100	U
50-32-8	Benzo(a)pyrene	100	U
205-99-2	Benzo(b)fluoranthene	100	U
207-08-9	Benzo(k)fluoranthene	100	U
191-24-2	Benzo(ghi)perylene	100	U
111-91-1	bis(2-Chloroethoxy)methane	100	U
111-44-4	bis(2-Chloroethyl) ether	100	U
117-81-7	bis(2-Ethylhexyl) phthalate	100	U
101-55-3	4-Bromophenyl phenyl ether	100	U
85-68-7	Butyl benzyl phthalate	100	U
86-74-8	Carbazole	100	U
106-47-8	4-Chloroaniline	100	U
59-50-7	4-Chloro-3-methylphenol	100	U
91-58-7	2-Chloronaphthalene	100	U
95-57-8	2-Chlorophenol	100	U
7005-72-3	4-Chlorophenyl phenyl ether	100	U
218-01-9	Chrysene	100	U
53-70-3	Dibenz(a,h)anthracene	100	U
132-64-9	Dibenzofuran	100	U
95-50-1	1,2-Dichlorobenzene	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
91-94-1	3,3'-Dichlorobenzidine	500	U
120-83-2	2,4-Dichlorophenol	100	U

679 202

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXPK31AC

Date Extracted: 03/22/01

Dilution factor: 10

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	Q
84-66-2	Diethyl phthalate	100	U
105-67-9	2,4-Dimethylphenol	100	U
131-11-3	Dimethyl phthalate	100	U
84-74-2	Di-n-butyl phthalate	100	U
117-84-0	Di-n-octyl phthalate	100	U
51-28-5	2,4-Dinitrophenol	500	U
534-52-1	4,6-Dinitro-2-methylphenol	500	U
121-14-2	2,4-Dinitrotoluene	100	U
606-20-2	2,6-Dinitrotoluene	100	U
206-44-0	Fluoranthene	100	U
86-73-7	Fluorene	100	U
118-74-1	Hexachlorobenzene	100	U
87-68-3	Hexachlorobutadiene	100	U
77-47-4	Hexachlorocyclopentadiene	500	U
67-72-1	Hexachloroethane	100	U
193-39-5	Indeno (1,2,3-cd) pyrene	100	U
78-59-1	Isophorone	100	U
91-57-6	2-Methylnaphthalene	100	U
95-48-7	2-Methylphenol	100	U
106-44-5	4-Methylphenol	100	U
91-20-3	Naphthalene	100	U
88-74-4	2-Nitroaniline	500	U
99-09-2	3-Nitroaniline	500	U
100-01-6	4-Nitroaniline	500	U
98-95-3	Nitrobenzene	100	U
88-75-5	2-Nitrophenol	100	U
100-02-7	4-Nitrophenol	500	U
621-64-7	N-Nitrosodi-n-propylamine	100	U

FORM I

Lab Name: Severn Trent Laboratories, Inq.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXPK31AC

Date Extracted: 03/22/01

Dilution factor: 10

Date Analyzed: 03/26/01

Moisture %: NA

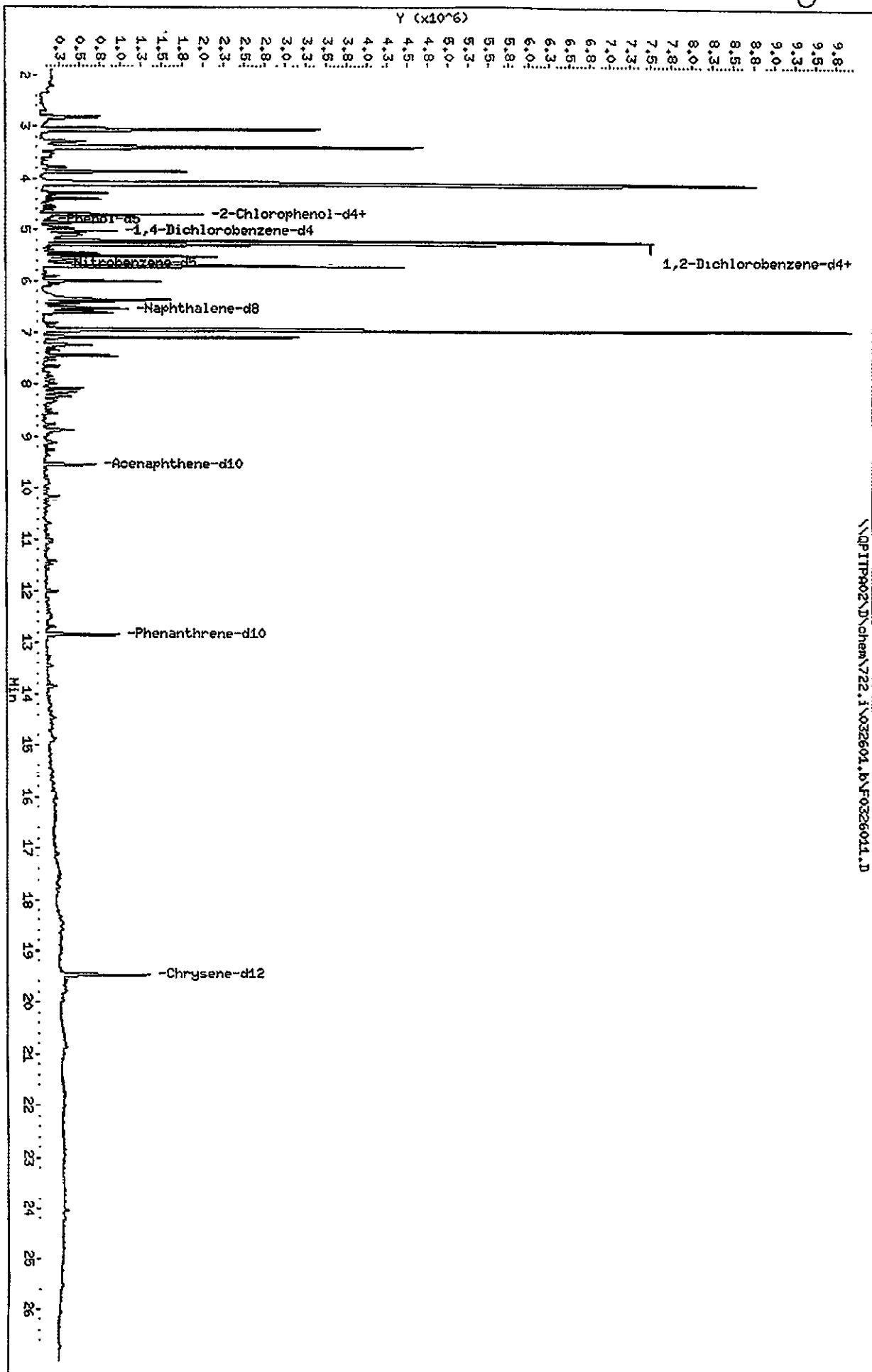
QC Batch: 1082316

Client Sample Id: DF/24-B/1079/IDW/006

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
86-30-6	N-Nitrosodiphenylamine	100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	100	U
87-86-5	Pentachlorophenol	500	U
85-01-8	Phenanthrene	100	U
108-95-2	Phenol	100	U
129-00-0	Pyrene	100	U
120-82-1	1,2,4-Trichlorobenzene	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
88-06-2	2,4,6-Trichlorophenol	100	U

Data File: \\QPIITP002\J\chem\722.1\032601.b\F0326011.D
Date: 26-Mar-2001 16:01
Client ID: DF/24-B/1079/IDM/00
Sample Info: CIG210184-001 x10 3/22/01 H2O (1082316)
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 722.i
Operator: 007062
Column diameter: 0.25



679 205

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032601.b\F0326011.D
Lab Smp Id: DXPK31AC Client Smp ID: DF/24-B/1079/IDW/00
Inj Date : 26-MAR-2001 16:01
Operator : 007062 Inst ID: 722.i
Smp Info : C1C210184-001 x10 3/22/01 H2O (1082316)
Misc Info : dxpk31ac,032601.b,8270b.m,2-root.sub
Comment :
Method : \\QPITPA02\d\chem\722.i\032601.b\8270b.m
Meth Date : 26-Mar-2001 09:54 bungardf Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 13
Dil Factor: 10.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC062

Compound Sublist: 2-root.sub

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

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	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 (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152		5.021	5.018	(1.000)	158823	40.0000	
* 2 Naphthalene-d8	136		6.543	6.546	(1.000)	636757	40.0000	
* 3 Acenaphthene-d10	164		9.546	9.559	(1.000)	247659	40.0000	
* 4 Phenanthrene-d10	188		12.836	12.855	(1.000)	692917	40.0000	
* 5 Chrysene-d12	240		19.466	19.484	(1.000)	967054	40.0000	
* 6 Perylene-d12	264							
10 N-Nitrosodimethylamine	74							
9 Pyridine	79							
16 Methyl methanesulfonate	80							
21 Aniline	93							
22 Phenol	94							
23 bis(2-Chloroethyl)ether	93							
24 2-Chlorophenol	128							

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
26 1,3-Dichlorobenzene	146				Compound Not Detected.		
27 1,4-Dichlorobenzene	146				Compound Not Detected.		
28 1,2-Dichlorobenzene	146				Compound Not Detected.		
29 Benzyl Alcohol	108				Compound Not Detected.		
30 2-Methylphenol	108				Compound Not Detected.		
31 2,2'-oxybis(1-Chloropropane)	45				Compound Not Detected.		
32 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
192 4-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
41 Isophorone	82				Compound Not Detected.		
42 2-Nitrophenol	139				Compound Not Detected.		
43 2,4-Dimethylphenol	107				Compound Not Detected.		
44 bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
48 2,4-Dichlorophenol	162				Compound Not Detected.		
49 Benzoic Acid	122	6.378	6.327	(0.975)	312463	122.094	610 <i>MA</i>
50 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
51 Naphthalene	128				Compound Not Detected.		
52 4-Chloroaniline	127				Compound Not Detected.		
56 Hexachlorobutadiene	224				Compound Not Detected.		
59 4-Chloro-3-Methylphenol	107				Compound Not Detected.		
62 2-Methylnaphthalene	142				Compound Not Detected.		
205 1-Methylnaphthalene	142				Compound Not Detected.		
64 Hexachlorocyclopentadiene	236				Compound Not Detected.		
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
70 2-Chloronaphthalene	162				Compound Not Detected.		
73 2-Nitroaniline	65				Compound Not Detected.		
76 Dimethylphthalate	163				Compound Not Detected.		
78 2,6-Dinitrotoluene	165				Compound Not Detected.		
79 Acenaphthylene	152				Compound Not Detected.		
81 3-Nitroaniline	138				Compound Not Detected.		
82 Acenaphthene	153				Compound Not Detected.		
83 2,4-Dinitrophenol	184				Compound Not Detected.		
85 4-Nitrophenol	109				Compound Not Detected.		
86 Dibenzofuran	168				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
91 2,3,5,6-Tetrachlorophenol	232				Compound Not Detected.		
88 2,3,4,6-Tetrachlorophenol	232				Compound Not Detected.		
92 2-Naphthylamine	143				Compound Not Detected.		
93 Diethylphthalate	149				Compound Not Detected.		
94 Fluorene	166				Compound Not Detected.		
95 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
96 4-Nitroaniline	138				Compound Not Detected.		
98 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
99 N-Nitrosodiphenylamine	169				Compound Not Detected.		
100 1,2-Diphenylhydrazine	77				Compound Not Detected.		

679 207

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
-----	----	--	-----	-----	-----	-----	-----
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	265				Compound Not Detected.		
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
123 Fluoranthene	202				Compound Not Detected.		
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202				Compound Not Detected.		
131 Butylbenzylphthalate	149				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228				Compound Not Detected.		
137 Chrysene	228				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149				Compound Not Detected.		
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
143 7,12-dimethylbenz[a]anthracene	256				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.678	5.675 (0.868)		51267	8.41629	42.1(aQ)
\$ 155 2-Fluorobiphenyl	172				Compound Not Detected.		
\$ 156 Terphenyl-d14	244				Compound Not Detected.		
\$ 157 Phenol-d5	99	4.780	4.729 (0.952)		9516	1.39357	6.97(aR)
\$ 158 2-Fluorophenol	112				Compound Not Detected.		
\$ 159 2,4,6-Tribromophenol	329				Compound Not Detected.		
\$ 186 2-Chlorophenol-d4	132	4.716	4.826 (0.939)		9704	1.89203	9.46(aQR)
\$ 187 1,2-Dichlorobenzene-d4	152	5.234	5.226 (1.043)		22108	6.68319	33.4(aQ)

QC Flag Legend

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

679 208

GC/MS SEMIVOLATILE
CALIBRATION DATA

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

673 209

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: 722

Calibration Date(s): 02/26/01

Min RRF for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF1 =F02260C3.D	RRF2 =F02260C2.D
RRF3 =F02260C4.D		RRF4 =F02260C5.D	RRF5 =F02260C6.D

COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	RRF	% RSD
Phenol	1.852	1.873	1.714	1.633	1.598	1.734	7.2*
bis(2-Chloroethyl) ether	1.412	1.435	1.333	1.282	1.263	1.345	5.7
2-Chlorophenol	1.330	1.349	1.257	1.224	1.212	1.274	4.9
1,3-Dichlorobenzene	1.507	1.522	1.409	1.358	1.345	1.428	5.8
1,4-Dichlorobenzene	1.527	1.542	1.440	1.386	1.371	1.453	5.4*
1,2-Dichlorobenzene	1.412	1.425	1.328	1.287	1.270	1.344	5.3
2-Methylphenol	1.240	1.268	1.169	1.139	1.122	1.188	5.4
2,2'-oxybis(1-Chloropropane	2.516	2.568	2.355	2.234	2.156	2.366	7.5
4-Methylphenol	1.310	1.357	1.240	1.203	1.199	1.262	5.5
Hexachloroethane	0.590	0.599	0.568	0.556	0.550	0.573	3.7
Nitrobenzene	0.416	0.430	0.400	0.390	0.385	0.404	4.5
Isophorone	0.660	0.686	0.637	0.622	0.616	0.644	4.5
2-Nitrophenol	0.180	0.189	0.180	0.180	0.178	0.181	2.4*
2,4-Dimethylphenol	0.350	0.363	0.336	0.328	0.327	0.341	4.5
bis(2-Chloroethoxy) methane	0.419	0.425	0.395	0.385	0.379	0.401	5.1
N-Nitroso-di-n-propylamine	1.076	1.138	1.067	1.063	1.055	1.080	3.1#
2,4-Dichlorophenol	0.270	0.279	0.263	0.257	0.254	0.265	3.9*
1,2,4-Trichlorobenzene	0.307	0.310	0.293	0.288	0.287	0.297	3.7
Naphthalene	1.015	1.018	0.938	0.889	0.873	0.947	7.2
4-Chloroaniline	0.396	0.406	0.378	0.369	0.358	0.381	5.2
Hexachlorobutadiene	0.195	0.199	0.188	0.188	0.190	0.192	2.5*
4-Chloro-3-Methylphenol	0.299	0.319	0.302	0.302	0.298	0.304	2.8*
2-Methylnaphthalene	0.664	0.674	0.632	0.618	0.607	0.639	4.5
Hexachlorocyclopentadiene	0.316	0.370	0.362	0.368	0.380	0.359	6.9#
2,4,6-Trichlorophenol	0.345	0.361	0.348	0.343	0.346	0.349	2.0*
2,4,5-Trichlorophenol	0.369	0.380	0.376	0.361	0.370	0.371	1.9
2-Chloronaphthalene	1.078	1.087	1.019	0.992	1.003	1.036	4.2
2-Nitroaniline	0.390	0.424	0.405	0.408	0.411	0.408	3.0
Dimethylphthalate	1.261	1.292	1.222	1.191	1.198	1.233	3.5
Acenaphthylene	1.672	1.686	1.596	1.520	1.513	1.597	5.1
2,6-Dinitrotoluene	0.274	0.292	0.283	0.283	0.286	0.284	2.3
3-Nitroaniline	0.313	0.338	0.322	0.322	0.324	0.324	2.8
Acenaphthene	1.091	1.110	1.046	1.010	1.010	1.053	4.4*
2,4-Dinitrophenol	0.081	0.127	0.155	0.180	0.191	0.147	30.2#
4-Nitrophenol	0.183	0.206	0.200	0.204	0.208	0.200	4.9#
Dibenzofuran	1.584	1.602	1.504	1.451	1.446	1.517	4.8
2,4-Dinitrotoluene	0.372	0.400	0.394	0.395	0.400	0.392	3.0

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: _

Instrument ID: 722

Calibration Date(s): 02/26/01

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

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF1	=F02260C3.D	RRF2	=F02260C2.D		
RRF3		=F02260C4.D	RRF4	=F02260C5.D	RRF5	=F02260C6.D	
COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	RRF	% RSD
=====	=====	=====	=====	=====	=====	=====	=====
Diethylphthalate	1.270	1.319	1.262	1.235	1.225	1.262	2.9
4-Chlorophenyl-phenylether	0.634	0.646	0.615	0.605	0.608	0.622	2.9
Fluorene	1.313	1.314	1.254	1.204	1.196	1.256	4.5
4-Nitroaniline	0.322	0.342	0.333	0.336	0.336	0.334	2.2
4,6-Dinitro-2-methylphenol	0.083	0.106	0.116	0.126	0.129	0.112	16.6
N-Nitrosodiphenylamine (1)	* 0.508	0.541	0.537	0.435	0.446	0.493	10.1*
4-Bromophenyl-phenylether	0.195	0.198	0.191	0.189	0.188	0.192	2.2
Hexachlorobenzene	0.204	0.206	0.198	0.194	0.194	0.199	2.8
Pentachlorophenol	# 0.127	0.141	0.138	0.141	0.142	0.138	4.5#
Phenanthrene	1.022	1.022	0.971	0.927	0.915	0.971	5.2
Anthracene	1.040	1.046	0.990	0.952	0.935	0.993	5.0
Carbazole	0.955	0.972	0.920	0.893	0.884	0.925	4.1
Di-n-Butylphthalate	1.114	1.178	1.116	1.082	1.067	1.111	3.8
Fluoranthene	* 1.107	1.131	1.088	1.050	1.046	1.084	3.3*
Pyrene	1.018	1.035	0.988	0.958	0.912	0.982	5.0
Butylbenzylphthalate	0.449	0.475	0.459	0.449	0.451	0.457	2.4
3,3'-Dichlorobenzidine	0.396	0.420	0.394	0.401	0.397	0.402	2.6
Benzo(a) Anthracene	0.994	1.022	0.974	0.947	0.942	0.976	3.4
Chrysene	0.956	0.966	0.918	0.882	0.880	0.920	4.4
bis(2-ethylhexyl) Phthalate	0.618	0.672	0.651	0.636	0.630	0.641	3.2
Di-n-octylphthalate	* 1.064	1.042	1.045	1.002	0.983	1.027	3.3*
Benzo(b) fluoranthene	1.101	0.994	0.982	0.988	1.139	1.041	7.1
Benzo(k) fluoranthene	1.140	1.133	1.116	1.065	0.891	1.069	9.7
Benzo(a) pyrene	* 1.045	1.055	1.006	0.974	0.964	1.009	4.0*
Indeno(1,2,3-cd)pyrene	1.612	1.609	1.536	1.502	1.497	1.551	3.6
Dibenz(a,h) anthracene	1.317	1.324	1.265	1.233	1.228	1.273	3.5
Benzo(g,h,i) perylene	1.457	1.440	1.379	1.332	1.322	1.386	4.4
Pyridine	1.274	1.346	1.241	1.203	1.206	1.254	4.7
N-Nitrosodimethylamine	0.792	0.829	0.768	0.752	0.748	0.778	4.3
Aniline	2.026	2.134	1.860	1.757	1.704	1.896	9.5
Benzyl Alcohol	0.985	1.078	0.999	0.979	0.970	1.002	4.4
Benzoic Acid	0.067	0.170	0.173	0.193	0.200	0.161	33.6
2,3,4,6-Tetrachlorophenol	0.350	0.386	0.362	0.364	0.372	0.367	3.6
2,3,5,6-Tetrachlorophenol	0.355	0.396	0.379	0.384	0.389	0.381	4.0
1,2-Diphenylhydrazine	0.774	0.798	0.741	0.719	0.712	0.749	4.9

(1) Cannot be separated from Diphenylamine

Contract:

Case No. :

SAS No. :

SDG No. :

Calibration Date(s): 02/26/01

Min $\overline{RRF}$ for SPCC(8) = 0.050

Max %RSD for CCC(*) = 30.0%

[illegible]

Data File: \\QPITPA02\d\chem\722.i\022601.b\F02260C6.D

Report Date: 02/26/2001

679 212

INITIAL CALIBRATION REPORT

Instrument ID: 722.i

Injection Date: 26-FEB-2001 13:28

Lab File ID: F02260C6.D

Lab Sample ID: sstd160

Analysis Type: NONE

Method File: \\QPITPA02\D\chem\722.i\022601.b\

COMPOUND	%RSD
Benzo(b)fluoranthene	7.1
7,12-dimethylbenz[a]anthracene	3.0
Benzo(k)fluoranthene	9.7
Benzo(a)pyrene	4.0
Indeno(1,2,3-cd)pyrene	3.6
Dibenz(a,h)anthracene	3.5
Benzo(g,h,i)perylene	4.4

The average of all %RSD's in the initial calibration is 5.5

679 .213

INITIAL CALIBRATION REPORT

Instrument ID: 722.i
 Lab File ID: F02260C6.D
 Analysis Type: NONE

Injection Date: 26-FEB-2001 13:28
 Lab Sample ID: sstd160
 Method File: \\QPITPA02\D\chem\722.i\022601.b\

COMPOUND	%RSD
Pyridine	4.7
N-Nitrosodimethylamine	4.3
Methyl methanesulfonate	10.1
2-Fluorophenol	4.6
Phenol-d5	5.3
Phenol	7.2
Aniline	9.5
bis(2-Chloroethyl) ether	5.7
2-Chlorophenol-d4	4.8
2-Chlorophenol	4.9
1,3-Dichlorobenzene	5.8
1,4-Dichlorobenzene	5.4
Benzyl Alcohol	4.4
1,2-Dichlorobenzene-d4	5.0
1,2-Dichlorobenzene	5.3
2-Methylphenol	5.4
2,2'-oxybis(1-Chloropropane)	7.5
4-Methylphenol	5.5
N-Nitroso-di-n-propylamine	3.1
Hexachloroethane	3.7
Nitrobenzene-d5	3.4
Nitrobenzene	4.5
Isophorone	4.5
2-Nitrophenol	2.4
2,4-Dimethylphenol	4.5
bis(2-Chloroethoxy) methane	5.1
Benzoic Acid	33.6
2,4-Dichlorophenol	3.9
1,2,4-Trichlorobenzene	3.7
Naphthalene	7.2
4-Chloroaniline	5.2
Hexachlorobutadiene	2.5
4-Chloro-3-Methylphenol	2.8
2-Methylnaphthalene	4.5
1-Methylnaphthalene	5.0
Hexachlorocyclopentadiene	6.9
2,4,6-Trichlorophenol	2.0
2,4,5-Trichlorophenol	1.9
2-Fluorobiphenyl	5.0

679 214

INITIAL CALIBRATION REPORT

Instrument ID: 722.i
Lab File ID: F02260C6.D
Analysis Type: NONE

Injection Date: 26-FEB-2001 13:28
Lab Sample ID: sstd160
Method File: \\QPITPA02\D\chem\722.i\022601.b\

COMPOUND	%RSD
2-Chloronaphthalene	4.2
2-Nitroaniline	3.0
Dimethylphthalate	3.5
Acenaphthylene	5.1
2,6-Dinitrotoluene	2.3
3-Nitroaniline	2.8
Acenaphthene	4.4
2,4-Dinitrophenol	30.2
4-Nitrophenol	4.9
Dibenzofuran	4.8
2,4-Dinitrotoluene	3.0
2,3,5,6-Tetrachlorophenol	4.0
2-Naphthylamine	16.0
2,3,4,6-Tetrachlorophenol	3.6
Diethylphthalate	2.9
Fluorene	4.5
4-Chlorophenyl-phenylether	2.9
4-Nitroaniline	2.2
4,6-Dinitro-2-methylphenol	16.6
N-Nitrosodiphenylamine	10.1
1,2-Diphenylhydrazine	4.9
2,4,6-Tribromophenol	3.2
4-Bromophenyl-phenylether	2.2
Hexachlorobenzene	2.8
Pentachlorophenol	4.5
Phenanthrene	5.2
Anthracene	5.0
Carbazole	4.1
Di-n-Butylphthalate	3.8
Fluoranthene	3.3
Benzidine	13.1
Pyrene	5.0
Terphenyl-d14	3.1
Butylbenzylphthalate	2.4
Benzo (a) Anthracene	3.4
3,3'-Dichlorobenzidine	2.6
Chrysene	4.4
bis (2-ethylhexyl) Phthalate	3.2
Di-n-octylphthalate	3.3

679

215

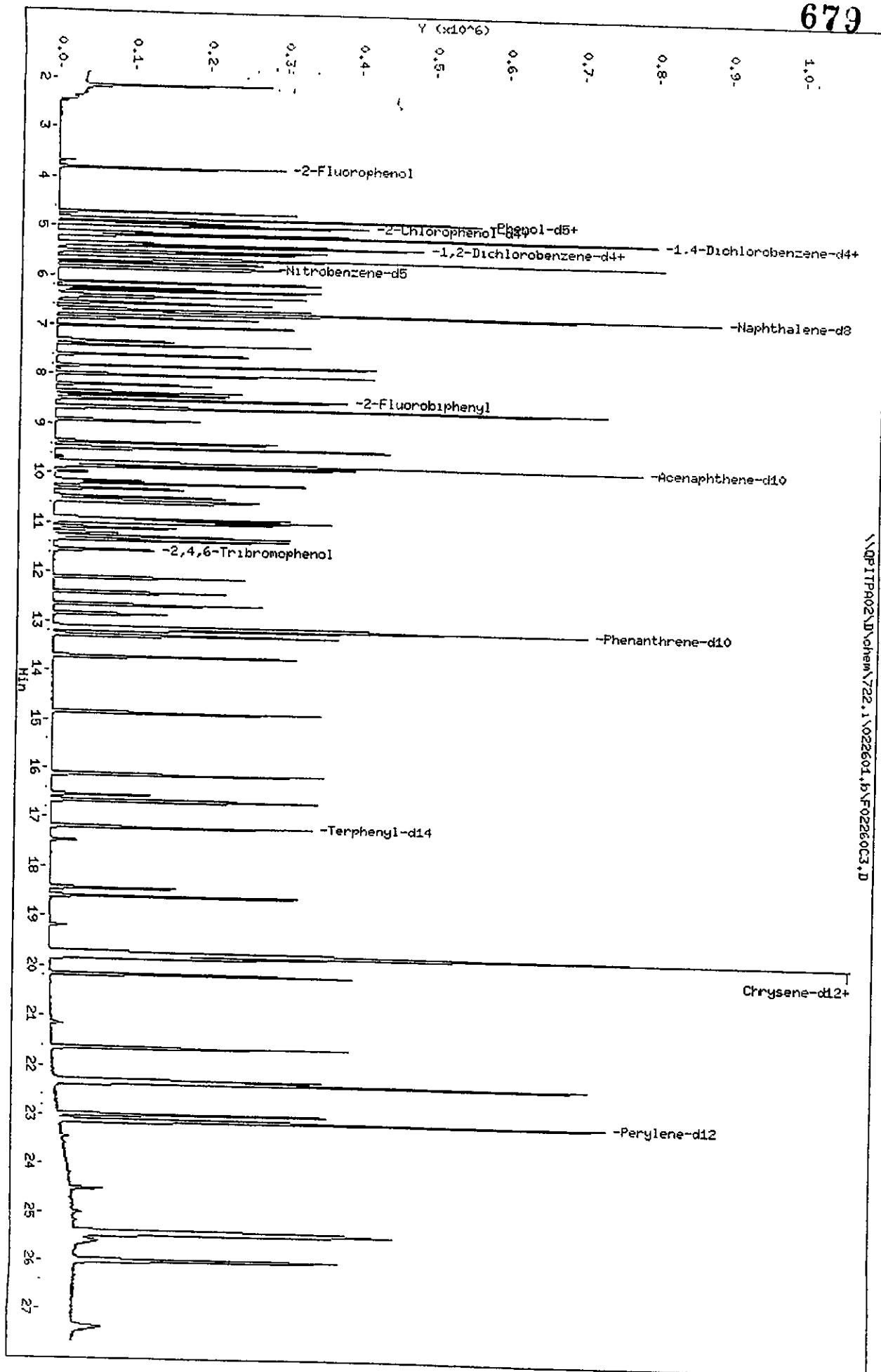
Data File: \NPIITP02\chem\722.1\022601.b\F02260C3.D
Date: 26-FEB-2004 11:47

Client ID:

Sample Info: SST020 (10ppb) 77-11-01
Volume Injected (ul): 2.0
Column Phase: Hp5-MS

Instrument: 722.1

Operator: 007062
Column diameter: 0.25



STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C3.D
 Lab Smp Id: sstd020 Client Smp ID: SST020
 Inj Date : 26-FEB-2001 11:47
 Operator : 007062 Inst ID: 722.i
 Smp Info : SST020 (10ppb) 77-11-01
 Misc Info : sstd020,022601.b,8270b.m,2-root.sub,1,1
 Comment :
 Method : \\QPITPA02\D\chem\722.i\022601.b\8270b.m
 Meth Date : 26-Feb-2001 12:29 bungardf Quant Type: ISTD
 Cal Date : 26-FEB-2001 11:47 Cal File: F02260C3.D
 Als bottle: 25 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-root.sub
 Target Version: 4.04
 Processing Host: PITPC062

Handwritten:
 2/21/01

						AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*****		----	--	-----	-----	-----	-----	-----
*	1 1,4-Dichlorobenzene-d4	152	5.168	5.168	(1.000)	154404	40 0000	
*	2 Naphthalene-d8	136	6 728	6 728	(1.000)	596941	40 0000	
*	3 Acenaphthene-d10	164	9.800	9 800	(1 000)	339175	40.0000	
*	4 Phenanthrene-d10	188	13.122	13.122	(1 000)	637145	40.0000	
*	5 Chrysene-d12	240	19 757	19.757	(1 000)	721018	40 0000	
*	6 Perylene-d12	264	23 118	23.118	(1.000)	714947	40.0000	
	10 N-Nitrosodimethylamine	74	2.144	2 144	(0.415)	61138	20 0000	20 0
	9 Pyridine	79	2.139	2.139	(0.414)	98386	20 0000	20 0
	16 Methyl methanesulfonate	80	3 678	3.678	(0.712)	10720	20.0000	20 0
	21 Aniline	93	4 864	4 864	(0.941)	156429	20 0000	20 0
	22 Phenol	94	4.853	4 853	(0.939)	143008	20 0000	20.0
	23 bis(2-Chloroethyl)ether	93	4 928	4 928	(0 953)	109046	20.0000	20 0
	24 2-Chlorophenol	128	4 976	4 976	(0 963)	102700	20 0000	20 0
	26 1,3-Dichlorobenzene	146	5.131	5.131	(0.993)	116334	20.0000	20 0
	27 1,4-Dichlorobenzene	146	5 189	5 189	(1.004)	117894	20 0000	20 0
	28 1,2-Dichlorobenzene	146	5.398	5.398	(1 044)	109014	20.0000	20 0
	29 Benzyl Alcohol	108	5.350	5.350	(1.035)	76024	20 0000	20 0
	30 2-Methylphenol	108	5.499	5.499	(1 064)	95695	20.0000	20 0
	31 2,2'-oxybis(1-Chloropropane)	45	5 526	5 526	(1.069)	194210	20 0000	20 0
	32 N-Nitroso-di-n-propylamine	70	5 681	5.681	(1 099)	83066	20.0000	20 0
	192 4-Methylphenol	108	5.659	5.659	(1.095)	101170	20 0000	20 0
	34 Hexachloroethane	117	5 745	5 745	(1.112)	45559	20 0000	20 0
	35 Nitrobenzene	77	5.857	5 857	(0 871)	124155	20 0000	20 0
	41 Isophorone	82	6.135	6.135	(0 912)	196996	20 0000	20 0
	42 2-Nitrophenol	139	6 247	6 247	(0 929)	53667	20 0000	20 0
	43 2,4-Dimethylphenol	107	6.295	6.295	(0.936)	104464	20 0000	20 0

673 217

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
44 bis (2-Chloroethoxy)methane	93	6.423	6.423	(0.955)	125149	20.0000	20.0
48 2,4-Dichlorophenol	162	6.552	6.552	(0.974)	80675	20.0000	20.0
49 Benzoic Acid	122	6.397	6.397	(0.951)	47257	20.0000	20.0 (MH)
50 1,2,4-Trichlorobenzene	180	6.669	6.669	(0.991)	91704	20.0000	20.0
51 Naphthalene	128	6.755	6.755	(1.004)	302906	20.0000	20.0
52 4-Chloroaniline	127	6.861	6.861	(1.020)	118081	20.0000	20.0
56 Hexachlorobutadiene	225	7.016	7.016	(1.043)	58240	20.0000	20.0
59 4-Chloro-3-Methylphenol	107	7.593	7.593	(1.129)	89329	20.0000	20.0
62 2-Methylnaphthalene	142	7.807	7.807	(1.160)	198321	20.0000	20.0
205 1-Methylnaphthalene	142	7.994	7.994	(1.188)	202823	20.0000	20.0
64 Hexachlorocyclopentadiene	237	8.202	8.202	(0.837)	53639	20.0000	20.0
66 2,4,6-Trichlorophenol	196	8.347	8.347	(0.852)	58588	20.0000	20.0
67 2,4,5-Trichlorophenol	196	8.411	8.411	(0.858)	62641	20.0000	20.0
70 2-Chloronaphthalene	162	8.662	8.662	(0.884)	182872	20.0000	20.0
73 2-Nitroaniline	65	8.924	8.924	(0.911)	66091	20.0000	20.0
76 Dimethylphthalate	163	9.367	9.367	(0.956)	213815	20.0000	20.0
78 2,6-Dinitrotoluene	165	9.495	9.495	(0.969)	46518	20.0000	20.0
79 Acenaphthylene	152	9.479	9.479	(0.967)	283611	20.0000	20.0
81 3-Nitroaniline	138	9.762	9.762	(0.996)	53073	20.0000	20.0
82 Acenaphthene	153	9.864	9.864	(1.007)	185101	20.0000	20.0
83 2,4-Dinitrophenol	184	9.971	9.971	(1.017)	13732	20.0000	20.0
85 4-Nitrophenol	109	10.142	10.142	(1.035)	31084	20.0000	20.0
86 Dibenzofuran	168	10.200	10.200	(1.041)	268564	20.0000	20.0
87 2,4-Dinitrotoluene	165	10.312	10.312	(1.052)	63116	20.0000	20.0
91 2,3,5,6-Tetrachlorophenol	232	10.473	10.473	(1.069)	60262	20.0000	20.0
88 2,3,4,6-Tetrachlorophenol	232	10.569	10.569	(1.078)	59429	20.0000	20.0
92 2-Naphthylamine	143	10.542	10.542	(1.076)	183509	20.0000	20.0
93 Diethylphthalate	149	10.905	10.905	(1.113)	215470	20.0000	20.0
94 Fluorene	166	10.954	10.954	(1.118)	222700	20.0000	20.0
95 4-Chlorophenyl-phenylether	204	10.991	10.991	(1.122)	107579	20.0000	20.0
96 4-Nitroaniline	138	11.098	11.098	(1.132)	54616	20.0000	20.0
98 4,6-Dinitro-2-methylphenol	198	11.199	11.199	(0.853)	26453	20.0000	20.0
99 N-Nitrosodiphenylamine	169	11.274	11.274	(0.859)	161813	20.0000	20.0
100 1,2-Diphenylhydrazine	77	11.338	11.338	(0.864)	246687	20.0000	20.0
106 4-Bromophenyl-phenylether	248	12.102	12.102	(0.922)	62142	20.0000	20.0
107 Hexachlorobenzene	284	12.407	12.407	(0.945)	64849	20.0000	20.0
111 Pentachlorophenol	266	12.850	12.850	(0.979)	40509	20.0000	20.0
115 Phenanthrene	178	13.171	13.171	(1.004)	325486	20.0000	20.0
116 Anthracene	178	13.277	13.277	(1.012)	331367	20.0000	20.0
119 Carbazole	167	13.715	13.715	(1.045)	304224	20.0000	20.0
120 Di-n-Butylphthalate	149	14.853	14.853	(1.132)	354987	20.0000	20.0
123 Fluoranthene	202	16.114	16.114	(1.228)	352747	20.0000	20.0
124 Benzinidine	184	16.531	16.531	(0.837)	127540	20.0000	20.0
125 Pyrene	202	16.659	16.659	(0.843)	367133	20.0000	20.0
131 Butylbenzylphthalate	149	18.593	18.593	(0.941)	161833	20.0000	20.0
135 3,3'-Dichlorobenzidine	252	19.757	19.757	(1.000)	142907	20.0000	20.0
136 Benzo(a)Anthracene	228	19.715	19.715	(0.998)	358410	20.0000	20.0

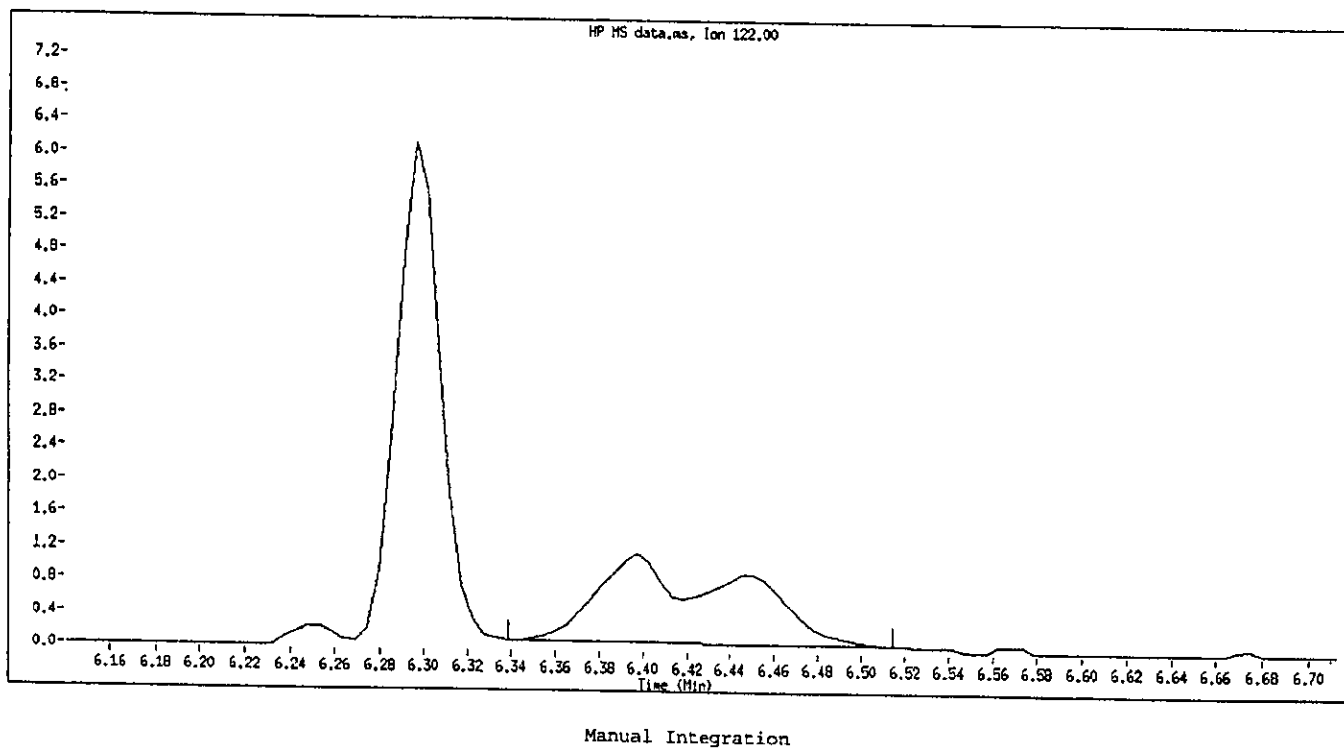
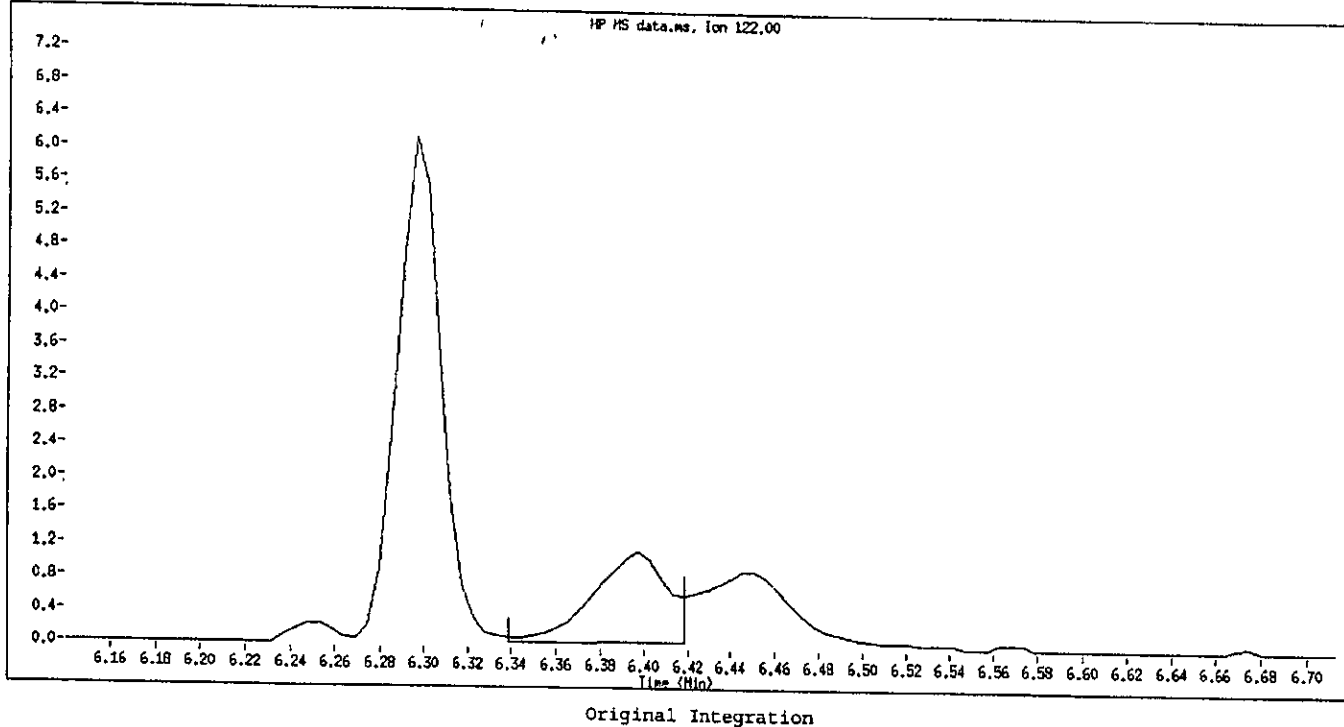
Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(NG)	(NG)
=====	====	==	=====	=====	=====	=====	=====	
137 Chrysene	228	19.816	19.816	(1.003)	344651	20.0000	20.0	
139 bis(2-ethylhexyl)Phthalate	149	20.163	20.163	(1.021)	222670	20.0000	20.0	
140 Di-n-octylphthalate	149	21.627	21.627	(0.936)	380517	20.0000	20.0	
141 Benzo(b)fluoranthene	252	22.295	22.295	(0.964)	393680	20.0000	20.0	
142 Benzo(k)fluoranthene	252	22.348	22.348	(0.967)	407664	20.0000	20.0	
143 7,12-dimethylbenz[a]anthracen	256	22.348	22.348	(0.967)	184012	20.0000	20.0	
146 Benzo(a)pyrene	252	22.989	22.989	(0.994)	373516	20.0000	20.0	
149 Indeno(1,2,3-cd)pyrene	276	25.393	25.393	(1.098)	576142	20.0000	20.0	
150 Dibenz(a,h)anthracene	278	25.447	25.447	(1.101)	470672	20.0000	20.0	
151 Benzo(g,h,i)perylene	276	25.997	25.997	(1.125)	520722	20.0000	20.0	
\$ 154 Nitrobenzene-d5	82	5.836	5.836	(0.867)	116584	20.0000	20.0	
\$ 155 2-Fluorobiphenyl	172	8.491	8.491	(0.866)	207791	20.0000	20.0	
\$ 156 Terphenyl-d14	244	17.188	17.188	(0.870)	288932	20.0000	20.0	
\$ 157 Phenol-d5	99	4.837	4.837	(0.936)	136355	20.0000	20.0	
\$ 158 2-Fluorophenol	112	3.822	3.822	(0.740)	102029	20.0000	20.0	
\$ 159 2,4,6-Tribromophenol	330	11.541	11.541	(0.880)	31483	20.0000	20.0	
\$ 186 2-Chlorophenol-d4	132	4.960	4.960	(0.960)	102068	20.0000	20.0	
\$ 187 1,2-Dichlorobenzene-d4	152	5.382	5.382	(1.041)	68046	20.0000	20.0	

QC Flag Legend

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

Data File Name F02260C3.D
Inj Date and Time: 26-FEB-2001 11:47
Instrument ID 722.1
Client ID SST020
Compound Name: Benzoic Acid
CAS # 65-85-0
Report Date: 02/26/2001

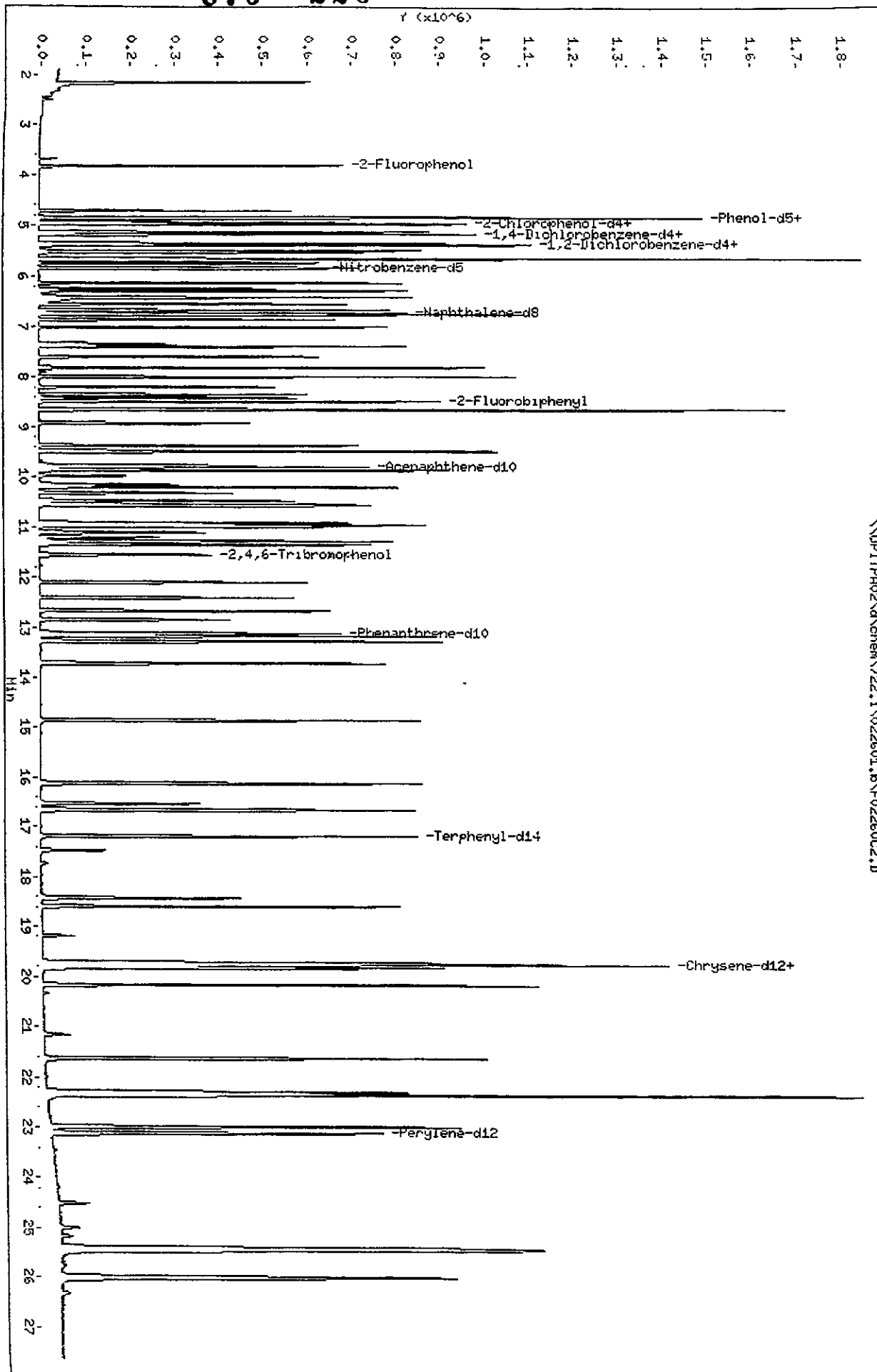
679 219



Manually Integrated By: BungardF
Manual Integration Reason: Unknown

Data File: \\NPITPA02\chem\722.1\022601.b\F0226002.D
Date: 26-FEB-2001 11:04
Client ID: SST0050
Sample Info: SST0050 (25ppb) 77-13-14
Column phase: Hp5-11S

Instrument: 722.i
Operator: 007062
Column diameter: 0.25



STL-Pittsburgh

Semivolatiles REPORT SW-846 Method 8270
Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C2.D
Lab Smp Id: sstd050 Client Smp ID: SST050
Inj Date : 26-FEB-2001 11:04
Operator : 007062 Inst ID: 722.i
Smp Info : SST050 (25ppb) 77-13-14
Misc Info : sstd050,022601.b,8270b.m,2-root.sub,1,2
Comment :
Method : \\QPITPA02\D\chem\722.i\022601.b\8270b.m
Meth Date : 26-Feb-2001 11:53 bungardf Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04 Compound Sublist: 2-root.sub
Processing Host: PITPC062

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT	ON-COL
-----	----	--	-----	-----	-----	(NG)	(NG)
* 1 1,4-Dichlorobenzene-d4	152	5 176	5 176	(1.000)	139646	40 0000	
* 2 Naphthalene-d8	136	6.731	6 731	(1 000)	546454	40.0000	
* 3 Acenaphthene-d10	164	9 797	9 797	(1 000)	313250	40 0000	
* 4 Phenanthrene-d10	188	13 120	13.120	(1.000)	600741	40.0000	
* 5 Chrysene-d12	240	19 760	19 760	(1.000)	678720	40 0000	
* 6 Perylene-d12	264	23 115	23.115	(1.000)	734447	40 0000	(Q)
10 N-Nitrosodimethylamine	74	2 158	2.158	(0 417)	144734	50 0000	(Q)
9 Pyridine	79	2 153	2.153	(0.416)	234881	50 0000	
16 Methyl methanesulfonate	80	3.686	3 686	(0.712)	18423	50.0000	
21 Aniline	93	4.867	4 867	(0 940)	372505	50 0000	
22 Phenol	94	4.861	4 861	(0 939)	326957	50.0000	
23 bis (2-Chloroethyl) ether	93	4.936	4 936	(0 954)	250515	50 0000	
24 2-Chlorophenol	128	4 984	4 984	(0 963)	235538	50 0000	
26 1,3-Dichlorobenzene	146	5.134	5.134	(0 992)	265707	50.0000	
27 1,4-Dichlorobenzene	146	5 192	5 192	(1.003)	269161	50 0000	
28 1,2-Dichlorobenzene	146	5 401	5 401	(1 043)	248712	50.0000	
29 Benzyl Alcohol	108	5 353	5 353	(1 034)	188247	50 0000	
30 2-Methylphenol	108	5 502	5 502	(1 063)	221335	50.0000	
31 2,2'-oxybis (1-Chloropropane)	45	5 529	5.529	(1 068)	448358	50 0000	
32 N-Nitroso-di-n-propylamine	70	5 689	5 689	(1 099)	198681	50 0000	
192 4-Methylphenol	108	5.663	5 663	(1 094)	236820	50.0000	
34 Hexachloroethane	117	5 748	5.748	(1 110)	104611	50 0000	(Q)
35 Nitrobenzene	77	5 860	5 860	(0 871)	293426	50 0000	
41 Isophorone	82	6 138	6 138	(0 912)	468711	50 0000	
42 2-Nitrophenol	139	6 250	6 250	(0 929)	129117	50.0000	
43 2,4-Dimethylphenol	107	6.298	6.298	(0 936)	247723	50.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
44 bis (2-Chloroethoxy)methane	93	6 426	6 426	(0.955)	290299	50.0000	
48 2,4-Dichlorophenol	162	6 555	6 555	(0.974)	190899	50 0000	
49 Benzoic Acid	122	6 448	6 448	(0.958)	116378	50 0000	
50 1,2,4-Trichlorobenzene	180	6 672	6 672	(0.991)	212022	50 0000	
51 Naphthalene	128	6.758	6 758	(1.004)	695637	50 0000	(Q)
52 4-Chloroaniline	127	6 859	6.859	(1.019)	277647	50 0000	
56 Hexachlorobutadiene	225	7 014	7.014	(1.042)	135942	50.0000	
59 4-Chloro-3-Methylphenol	107	7.596	7 596	(1.129)	217748	50.0000	
62 2-Methylnaphthalene	142	7 810	7.810	(1.160)	460178	50 0000	
205 1-Methylnaphthalene	142	7 992	7 992	(1.187)	491009	50 0000	
64 Hexachlorocyclopentadiene	237	8 200	8 200	(0.837)	144706	50 0000	(Q)
66 2,4,6-Trichlorophenol	196	8 350	8.350	(0.852)	141203	50 0000	
67 2,4,5-Trichlorophenol	196	8 419	8.419	(0.859)	148651	50 0000	
70 2-Chloronaphthalene	162	8 665	8 665	(0.884)	425560	50 0000	
73 2-Nitroaniline	65	8.927	8.927	(0.911)	165918	50 0000	
76 Dimethylphthalate	163	9 370	9.370	(0.956)	506040	50 0000	
78 2,6-Dinitrotoluene	165	9.498	9.498	(0.969)	114396	50 0000	
79 Acenaphthylene	152	9.482	9 482	(0.968)	660325	50 0000	(Q)
81 3-Nitroaniline	138	9 765	9 765	(0.997)	132514	50 0000	
82 Acenaphthene	153	9.867	9 867	(1.007)	434603	50 0000	
83 2,4-Dinitrophenol	184	9 974	9 974	(1.018)	49923	50 0000	
85 4-Nitrophenol	109	10.150	10 150	(1.036)	80494	50 0000	
86 Dibenzofuran	168	10 203	10.203	(1.041)	627155	50.0000	
87 2,4-Dinitrotoluene	165	10.316	10 316	(1.053)	156554	50 0000	
91 2,3,5,6-Tetrachlorophenol	232	10.476	10 476	(1.069)	154974	50.0000	
88 2,3,4,6-Tetrachlorophenol	232	10 577	10.577	(1.080)	151361	50.0000	
92 2-Naphthylamine	143	10 551	10.551	(1.077)	455291	50 0000	
93 Diethylphthalate	149	10.914	10 914	(1.114)	516498	50.0000	
94 Fluorene	166	10.957	10.957	(1.118)	514482	50 0000	
95 4-Chlorophenyl-phenylether	204	10.989	10 989	(1.122)	253084	50 0000	
96 4-Nitroaniline	138	11.106	11 106	(1.134)	133905	50.0000	
98 4,6-Dinitro-2-methylphenol	198	11.208	11 208	(0.854)	79874	50 0000	
99 N-Nitrosodiphenylamine	169	11 282	11 282	(0.860)	406055	50.0000	
100 1,2-Diphenylhydrazine	77	11 347	11 347	(0.865)	599672	50.0000	
106 4-Bromophenyl-phenylether	248	12 105	12 105	(0.923)	148556	50 0000	
107 Hexachlorobenzene	284	12 410	12 410	(0.946)	154700	50 0000	
111 Pentachlorophenol	266	12 848	12 848	(0.979)	105691	50 0000	(Q)
115 Phenanthrene	178	13.174	13 174	(1.004)	767561	50 0000	
116 Anthracene	178	13 280	13 280	(1.012)	785154	50.0000	
119 Carbazole	167	13 718	13.718	(1.046)	729620	50 0000	(Q)
120 Di-n-Butylphthalate	149	14 856	14 856	(1.132)	884643	50 0000	
123 Fluoranthene	202	16.117	16 117	(1.228)	849025	50 0000	
124 Benzidine	184	16 534	16 534	(0.837)	334902	50.0000	
125 Pyrene	202	16.662	16 662	(0.843)	877990	50 0000	
131 Butylbenzylphthalate	149	18.596	18.596	(0.941)	402952	50 0000	
135 3,3'-Dichlorobenzidine	252	19 760	19.760	(1.000)	356464	50 0000	
136 Benzo(a)Anthracene	228	19 718	19 718	(0.998)	867173	50 0000	

679 223

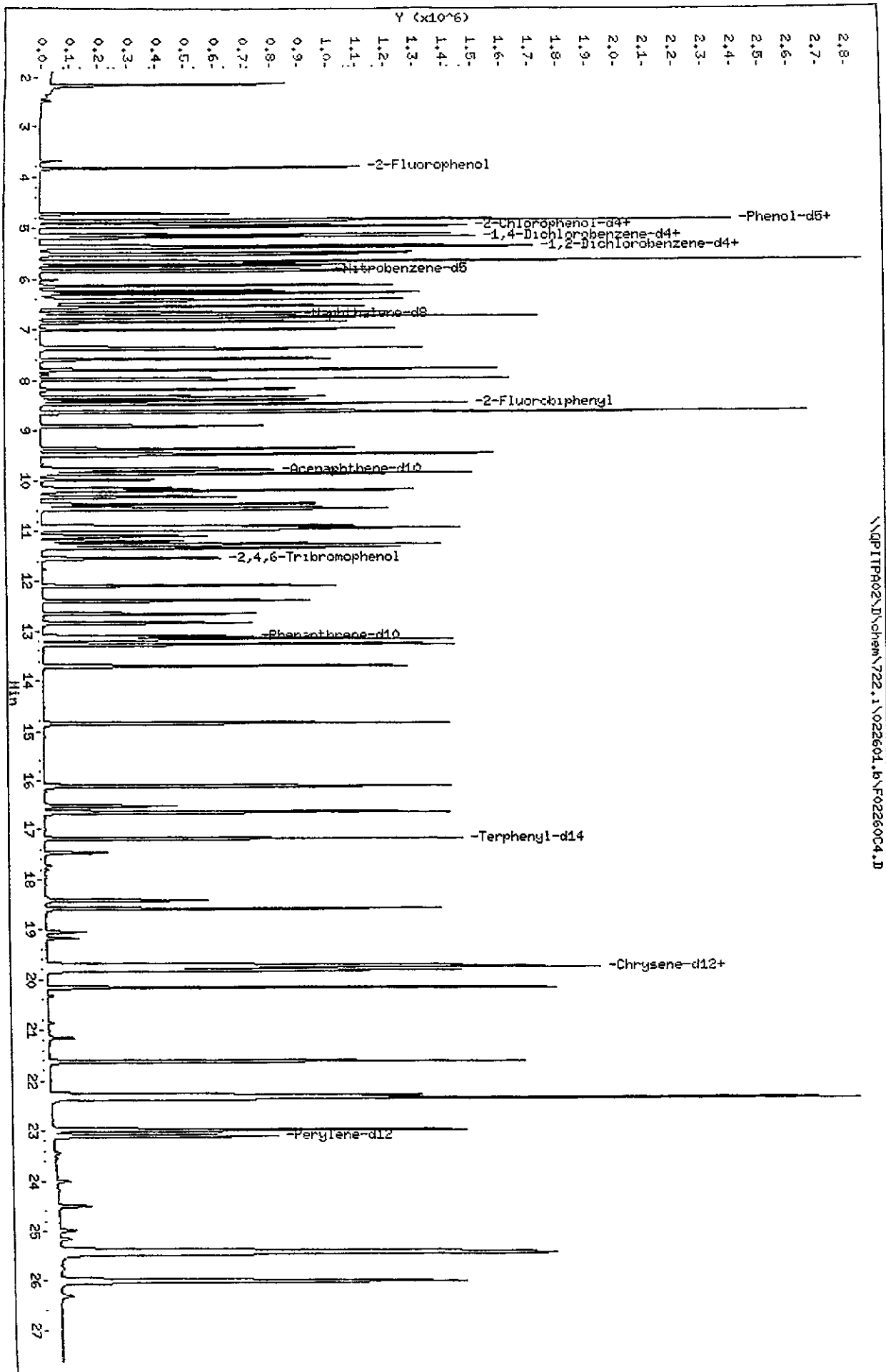
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	-----	==	=====	=====	=====	-----	-----
137 Chrysene	228	19 825	19 825	(1 003)	819595	50.0000	
139 bis (2-ethylhexyl)Phthalate	149	20 166	20 166	(1 021)	569845	50 0000	
140 Di-n-octylphthalate	149	21 630	21 630	(0 936)	956912	50 0000	
141 Benzo(b)fluoranthene	252	22 303	22.303	(0 965)	912523	50 0000	(Q)
142 Benzo(k)fluoranthene	252	22 362	22 362	(0 967)	1039873	50 0000	
143 7,12-dimethylbenz[a]anthracen	256	22 362	22 362	(0 967)	509547	50 0000	
146 Benzo(a)pyrene	252	22 998	22 998	(0.995)	968784	50 0000	
149 Indeno(1,2,3-cd)pyrene	276	25 412	25 412	(1 099)	1476997	50.0000	
150 Dibenz(a,h)anthracene	278	25 455	25 455	(1 101)	1215150	50.0000	
151 Benzo(g,h,i)perylene	276	26.016	26 016	(1.125)	1321669	50 0000	
\$ 154 Nitrobenzene-d5	82	5 839	5 839	(0 867)	274058	50 0000	
\$ 155 2-Fluorobiphenyl	172	8 494	8.494	(0 867)	481200	50 0000	
\$ 156 Terphenyl-d14	244	17 191	17.191	(0.870)	684045	50 0000	
\$ 157 Phenol-d5	99	4.845	4 845	(0 936)	323718	50 0000	
\$ 158 2-Fluorophenol	112	3 836	3 836	(0.741)	243801	50 0000	
\$ 159 2,4,6-Tribromophenol	330	11 550	11 550	(0 880)	81003	50 0000	
\$ 186 2-Chlorophenol-d4	132	4.968	4 968	(0 960)	241771	50 0000	
\$ 187 1,2-Dichlorobenzene-d4	152	5 385	5 385	(1.040)	152211	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\QPI1P602\J\chem\722.1\022601.b\F02260C4.D
Date: 26-FEB-2001 12:21
Client ID:
Sample Info: SST0080 (40ppb) 77-11-03
Volume Injected (uL): 2.0
Column Phase: Hp5-HS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25



STL-Pittsburgh

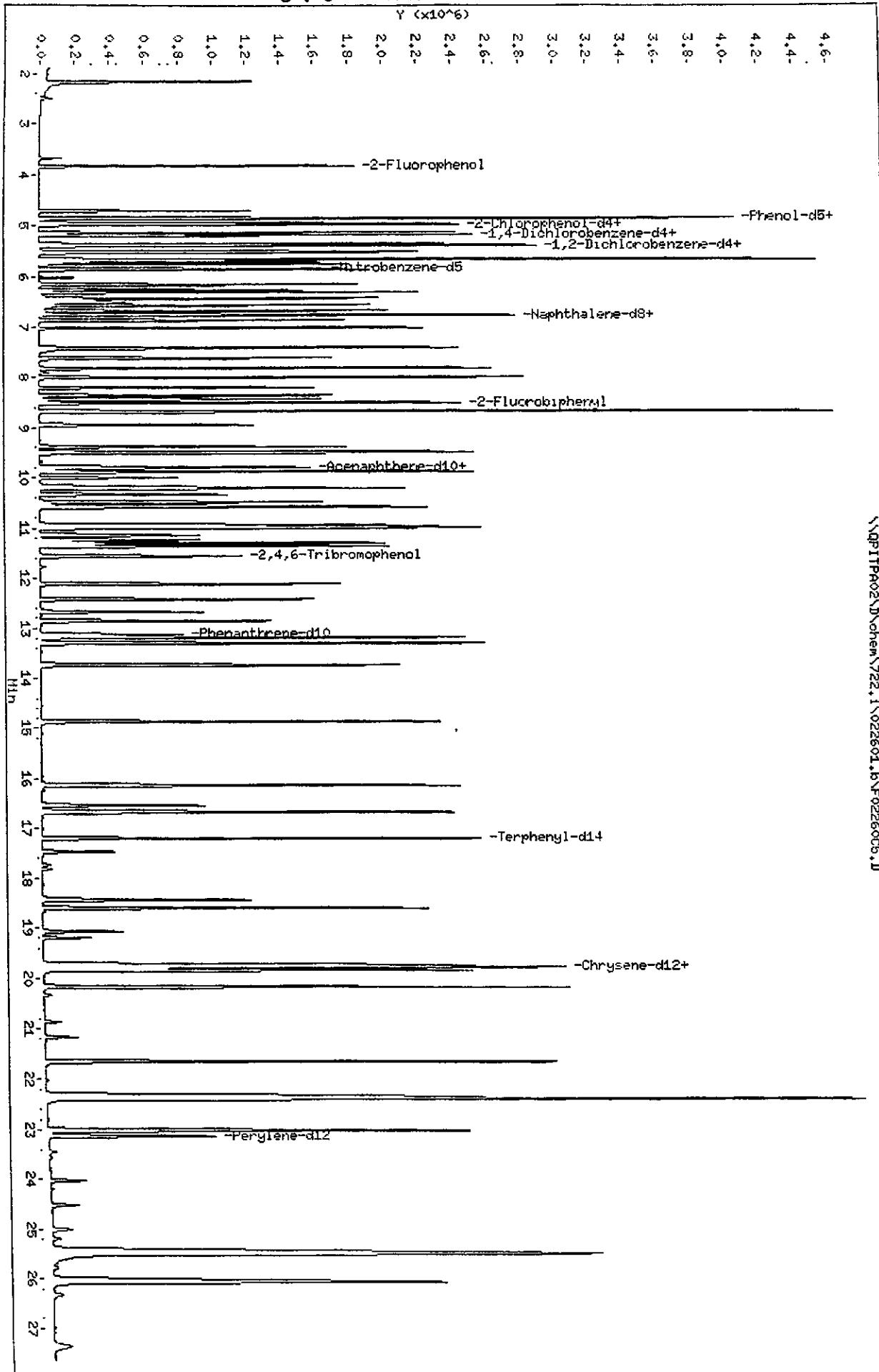
Semivolatile REPORT SW-846 Method 8270
Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C4.D
Lab Smp Id: sstd080 Client Smp ID: SST080
Inj Date : 26-FEB-2001 12:21
Operator : 007062 Inst ID: 722.i
Smp Info : SST080 (40ppb) 77-11-03
Misc Info : sstd080,022601.b,8270b.m,2-root.sub,1,3
Comment :
Method : \\QPITPA02\D\chem\722.i\022601.b\8270b.m
Meth Date : 26-Feb-2001 12:52 bungardf Quant Type: ISTD
Cal Date : 26-FEB-2001 12:21 Cal File: F02260C4.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

Handwritten:
1/26/01

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5.167	5.167	(1.000)	149405	40.0000	
* 2 Naphthalene-d8	136	6.727	6.727	(1.000)	588609	40.0000	
* 3 Acenaphthene-d10	164	9.788	9.788	(1.000)	337199	40.0000	
* 4 Phenanthrene-d10	188	13.111	13.111	(1.000)	651532	40.0000	
* 5 Chrysene-d12	240	19.751	19.751	(1.000)	731883	40.0000	
* 6 Perylene-d12	264	23.106	23.106	(1.000)	775308	40.0000	
10 N-Nitrosodimethylamine	74	2.149	2.149	(0.416)	229542	80.0000	78.8
9 Pyridine	79	2.144	2.144	(0.415)	370704	80.0000	78.9
16 Methyl methanesulfonate	80	3.677	3.677	(0.712)	39325	80.0000	77.8
21 Aniline	93	4.863	4.863	(0.941)	555936	80.0000	76.6
22 Phenol	94	4.858	4.858	(0.940)	512331	80.0000	76.9
23 bis(2-Chloroethyl) ether	93	4.938	4.938	(0.956)	398433	80.0000	77.7
24 2-Chlorophenol	128	4.980	4.980	(0.964)	375610	80.0000	77.7
26 1,3-Dichlorobenzene	146	5.130	5.130	(0.993)	421060	80.0000	77.3
27 1,4-Dichlorobenzene	146	5.189	5.189	(1.004)	430336	80.0000	77.6
28 1,2-Dichlorobenzene	146	5.397	5.397	(1.044)	396761	80.0000	77.5
29 Benzyl Alcohol	108	5.349	5.349	(1.035)	298655	80.0000	80.6
30 2-Methylphenol	108	5.499	5.499	(1.064)	349268	80.0000	77.6
31 2,2'-oxybis(1-Chloropropane)	45	5.525	5.525	(1.069)	703794	80.0000	77.4
32 N-Nitroso-di-n-propylamine	70	5.691	5.691	(1.101)	318770	80.0000	79.6
192 4-Methylphenol	108	5.659	5.659	(1.095)	370570	80.0000	77.8
34 Hexachloroethane	117	5.744	5.744	(1.112)	169806	80.0000	78.5
35 Nitrobenzene	77	5.856	5.856	(0.871)	470954	80.0000	78.4
41 Isophorone	82	6.134	6.134	(0.912)	750346	80.0000	78.6
42 2-Nitrophenol	139	6.246	6.246	(0.929)	212244	80.0000	80.1
43 2,4-Dimethylphenol	107	6.295	6.295	(0.936)	395084	80.0000	78.3

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	====	==	=====	=====	=====	=====	=====
44 bis(2-Chloroethoxy)methane	93	6.423	6.423	{0.955}	464950	80.0000	77.6
48 2,4-Dichlorophenol	162	6.551	6.551	{0.974}	309778	80.0000	78.9
49 Benzoic Acid	122	6.466	6.466	{0.961}	204004	80.0000	83.6
50 1,2,4-Trichlorobenzene	180	6.669	6.669	{0.991}	345236	80.0000	78.1
51 Naphthalene	128	6.754	6.754	{1.004}	1104609	80.0000	76.9
52 4-Chloroaniline	127	6.855	6.855	{1.019}	445425	80.0000	78.2
56 Hexachlorobutadiene	225	7.010	7.010	{1.042}	221494	80.0000	78.5
59 4-Chloro-3-Methylphenol	107	7.593	7.593	{1.129}	356201	80.0000	80.4
62 2-Methylnaphthalene	142	7.801	7.801	{1.160}	744447	80.0000	78.0
205 1-Methylnaphthalene	142	7.988	7.988	{1.187}	771574	80.0000	78.6
64 Hexachlorocyclopentadiene	237	8.191	8.191	{0.837}	244253	80.0000	85.4
66 2,4,6-Trichlorophenol	196	8.341	8.341	{0.852}	234641	80.0000	80.3
67 2,4,5-Trichlorophenol	196	8.415	8.415	{0.860}	253258	80.0000	80.7
70 2-Chloronaphthalene	162	8.656	8.656	{0.884}	687078	80.0000	77.7
73 2-Nitroaniline	65	8.923	8.923	{0.912}	273157	80.0000	81.5
76 Dimethylphthalate	163	9.366	9.366	{0.957}	824438	80.0000	78.8
78 2,6-Dinitrotoluene	165	9.494	9.494	{0.970}	190709	80.0000	81.2
79 Acenaphthylene	152	9.473	9.473	{0.968}	1076663	80.0000	78.1
81 3-Nitroaniline	138	9.762	9.762	{0.997}	217256	80.0000	81.2
82 Acenaphthene	153	9.858	9.858	{1.007}	705516	80.0000	78.3
83 2,4-Dinitrophenol	184	9.970	9.970	{1.019}	104711	80.0000	105
85 4-Nitrophenol	109	10.146	10.146	{1.037}	134952	80.0000	83.5
86 Dibenzofuran	168	10.194	10.194	{1.041}	1014632	80.0000	78.0
87 2,4-Dinitrotoluene	165	10.317	10.317	{1.054}	265821	80.0000	82.3
91 2,3,5,6-Tetrachlorophenol	232	10.472	10.472	{1.070}	255676	80.0000	82.6
88 2,3,4,6-Tetrachlorophenol	232	10.568	10.568	{1.080}	244432	80.0000	81.3
92 2-Naphthylamine	143	10.542	10.542	{1.077}	612892	80.0000	73.0
93 Diethylphthalate	149	10.910	10.910	{1.115}	850973	80.0000	79.7
94 Fluorene	166	10.948	10.948	{1.118}	845964	80.0000	78.2
95 4-Chlorophenyl-phenylether	204	10.985	10.985	{1.122}	414576	80.0000	78.7
96 4-Nitroaniline	138	11.113	11.113	{1.135}	224331	80.0000	81.3
98 4,6-Dinitro-2-methylphenol	198	11.209	11.209	{0.855}	151680	80.0000	93.4
99 N-Nitrosodiphenylamine	169	11.279	11.279	{0.860}	700324	80.0000	82.2
100 1,2-Diphenylhydrazine	77	11.338	11.338	{0.865}	965846	80.0000	78.2
106 4-Bromophenyl-phenylether	248	12.096	12.096	{0.923}	249149	80.0000	79.2
107 Hexachlorobenzene	284	12.401	12.401	{0.946}	257794	80.0000	78.8
111 Pentachlorophenol	266	12.839	12.839	{0.979}	179882	80.0000	83.3
115 Phenanthrene	178	13.170	13.170	{1.004}	1264815	80.0000	77.9
116 Anthracene	178	13.277	13.277	{1.013}	1289832	80.0000	78.0
119 Carbazole	167	13.709	13.709	{1.046}	1199196	80.0000	78.5
120 Di-n-Butylphthalate	149	14.847	14.847	{1.132}	1454073	80.0000	80.0
123 Fluoranthene	202	16.113	16.113	{1.229}	1417500	80.0000	79.3
124 Benzidine	184	16.525	16.525	{0.837}	445607	80.0000	74.0
125 Pyrene	202	16.653	16.653	{0.843}	1446896	80.0000	78.8
131 Butylbenzylphthalate	149	18.587	18.587	{0.941}	672229	80.0000	80.9
135 3,3'-Dichlorobenzidine	252	19.757	19.757	{1.000}	576792	80.0000	79.8
136 Benzo(a)Anthracene	228	19.714	19.714	{0.998}	1425347	80.0000	79.2

Compounds	QUANT SIG							AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)		
-----	----	--	-----	-----	-----	-----	-----		
137 Chrysene	228	19 821	19 821	(1 004)	1343408	80 0000	78.4		
139 bis (2-ethylhexyl) Phthalate	149	20 157	20 157	(1 021)	952858	80 0000	82.1		
140 Di-n-octylphthalate	149	21 626	21 626	(0 936)	1620215	80 0000	79.2		
141 Benzo(b)fluoranthene	252	22 294	22 294	(0.965)	1523074	80.0000	75.4		
142 Benzo(k)fluoranthene	252	22 353	22.353	(0 967)	1730770	80 0000	79.1		
143 7,12-dimethylbenz[a]anthracen	256	22.358	22 358	(0 968)	810073	80 0000	80.6		
146 Benzo(a)pyrene	252	22 989	22.989	(0 995)	1560198	80 0000	78.5		
149 Indeno(1,2,3-cd)pyrene	276	25 409	25 409	(1 100)	2381188	80 0000	78.1		
150 Dibenz(a,h)anthracene	278	25 457	25 457	(1 102)	1961018	80.0000	78.4		
151 Benzo(g,h,i)perylene	276	26.012	26 012	(1.126)	2137725	80 0000	77 8		
\$ 154 Nitrobenzene-d5	82	5.835	5 835	(0.867)	446529	80.0000	78 8		
\$ 155 2-Fluorobiphenyl	172	8.485	8.485	(0 867)	788381	80.0000	78.1		
\$ 156 Terphenyl-d14	244	17 176	17 176	(0.870)	1142621	80.0000	78.9		
\$ 157 Phenol-d5	99	4.847	4 847	(0.938)	504758	80.0000	78.2		
\$ 158 2-Fluorophenol	112	3 826	3 826	(0.741)	382896	80 0000	78.8		
\$ 159 2,4,6-Tribromophenol	330	11 541	11 541	(0 880)	132622	80.0000	81.2		
\$ 186 2-Chlorophenol-d4	132	4.964	4 964	(0 961)	379900	80.0000	78.4		
\$ 187 1,2-Dichlorobenzene-d4	152	5.381	5 381	(1 041)	245866	80 0000	77.2		



Data File: \\QPIITPA02\chem\722.1\022601.b\F0226005.D
 Date: 26-FEB-2001 12:54
 Client ID:
 Sample Info: SSTH20 (60ppb) 77-11-04
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

\\QPIITPA02\chem\722.1\022601.b\F0226005.D

679 229

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270
Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C5.D
Lab Smp Id: sstd120 Client Smp ID: SSTD120
Inj Date : 26-FEB-2001 12:54
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD120 (60ppb) 77-11-04
Misc Info : sstd120,022601.b,8270b.m,2-root.sub,1,4
Comment :
Method : \\QPITPA02\D\chem\722.i\022601.b\8270b.m
Meth Date : 26-Feb-2001 13:27 bungardf Quant Type: ISTD
Cal Date : 26-FEB-2001 12:54 Cal File: F02260C5.D
Als bottle: 27 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.176	5.176	(1.000)	174798	40.0000	
* 2 Naphthalene-d8	136	6.736	6.736	(1.000)	692059	40.0000	
* 3 Acenaphthene-d10	164	9.803	9.803	(1.000)	403165	40.0000	
* 4 Phenanthrene-d10	188	13.126	13.126	(1.000)	786246	40.0000	
* 5 Chrysene-d12	240	19.771	19.771	(1.000)	881037	40.0000	
* 6 Perylene-d12	264	23.131	23.131	(1.000)	948797	40.0000	
10 N-Nitrosodimethylamine	74	2.163	2.163	(0.418)	394473	120.000	115
9 Pyridine	79	2.153	2.153	(0.416)	630659	120.000	114
16 Methyl methanesulfonate	80	3.686	3.686	(0.712)	69673	120.000	125
21 Aniline	93	4.872	4.872	(0.941)	921465	120.000	108
22 Phenol	94	4.872	4.872	(0.941)	856169	120.000	111
23 bis (2-Chloroethyl) ether	93	4.947	4.947	(0.956)	672275	120.000	113
24 2-Chlorophenol	128	4.989	4.989	(0.964)	641898	120.000	114
26 1,3-Dichlorobenzene	146	5.139	5.139	(0.993)	712008	120.000	112
27 1,4-Dichlorobenzene	146	5.198	5.198	(1.004)	727110	120.000	113
28 1,2-Dichlorobenzene	146	5.406	5.406	(1.044)	675043	120.000	113
29 Benzyl Alcohol	108	5.363	5.363	(1.036)	513567	120.000	116
30 2-Methylphenol	108	5.513	5.513	(1.065)	597101	120.000	114
31 2,2'-oxybis(1-Chloropropane)	45	5.534	5.534	(1.069)	1171687	120.000	111
32 N-Nitroso-di-n-propylamine	70	5.705	5.705	(1.102)	557377	120.000	117
192 4-Methylphenol	108	5.673	5.673	(1.096)	630831	120.000	113
34 Hexachloroethane	117	5.753	5.753	(1.111)	291871	120.000	115
35 Nitrobenzene	77	5.871	5.871	(0.872)	810784	120.000	114
41 Isophorone	82	6.154	6.154	(0.914)	1292348	120.000	115
42 2-Nitrophenol	139	6.256	6.256	(0.929)	372847	120.000	118
43 2,4-Dimethylphenol	107	6.309	6.309	(0.937)	681972	120.000	114

Compounds	QUANT	SIG	AMOUNTS						
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
								(NG)	(NG)
=====	=====	=====	=====	=====	=====	=====	=====		
44 bis (2-Chloroethoxy) methane	93	6.437	6.437	{0.956}	798499	120.000	114		
48 2,4-Dichlorophenol	162	6.565	6.565	{0.975}	533513	120.000	115		
49 Benzoic Acid	122	6.517	6.517	{0.967}	400850	120.000	154		
50 1,2,4-Trichlorobenzene	180	6.678	6.678	{0.991}	597740	120.000	115		
51 Naphthalene	128	6.768	6.768	{1.005}	1846491	120.000	110		
52 4-Chloroaniline	127	6.865	6.865	{1.019}	765279	120.000	114		
56 Hexachlorobutadiene	225	7.019	7.019	{1.042}	390673	120.000	117		
59 4-Chloro-3-Methylphenol	107	7.612	7.612	{1.130}	627129	120.000	118		
62 2-Methylnaphthalene	142	7.815	7.815	{1.160}	1282586	120.000	114		
205 1-Methylnaphthalene	142	8.002	8.002	{1.188}	1334807	120.000	114		
64 Hexachlorocyclopentadiene	237	8.205	8.205	{0.837}	444680	120.000	125		
66 2,4,6-Trichlorophenol	196	8.355	8.355	{0.852}	414892	120.000	118		
67 2,4,5-Trichlorophenol	196	8.430	8.430	{0.860}	436639	120.000	117		
70 2-Chloronaphthalene	162	8.676	8.676	{0.885}	1199419	120.000	114		
73 2-Nitroaniline	65	8.943	8.943	{0.912}	494044	120.000	120		
76 Dimethylphthalate	163	9.386	9.386	{0.957}	1440635	120.000	115		
78 2,6-Dinitrotoluene	165	9.514	9.514	{0.971}	341969	120.000	120		
79 Acenaphthylene	152	9.488	9.488	{0.968}	1838489	120.000	113		
81 3-Nitroaniline	138	9.787	9.787	{0.998}	389865	120.000	119		
82 Acenaphthene	153	9.878	9.878	{1.008}	1221065	120.000	114		
83 2,4-Dinitrophenol	184	9.995	9.995	{1.020}	217488	120.000	159		
85 4-Nitrophenol	109	10.171	10.171	{1.038}	246690	120.000	123		
86 Dibenzofuran	168	10.214	10.214	{1.042}	1754581	120.000	113		
87 2,4-Dinitrotoluene	165	10.342	10.342	{1.055}	477773	120.000	121		
91 2,3,5,6-Tetrachlorophenol	232	10.492	10.492	{1.070}	464261	120.000	122		
88 2,3,4,6-Tetrachlorophenol	232	10.593	10.593	{1.081}	440831	120.000	120		
92 2-Naphthylamine	143	10.567	10.567	{1.078}	1043319	120.000	103		
93 Diethylphthalate	149	10.925	10.925	{1.114}	1493717	120.000	116		
94 Fluorene	166	10.967	10.967	{1.119}	1456371	120.000	114		
95 4-Chlorophenyl-phenylether	204	10.999	10.999	{1.122}	732129	120.000	116		
96 4-Nitroaniline	138	11.144	11.144	{1.137}	405981	120.000	121		
98 4,6-Dinitro-2-methylphenol	198	11.234	11.234	{0.856}	296567	120.000	140		
99 N-Nitrosodiphenylamine	169	11.299	11.299	{0.861}	1026955	120.000	103		
100 1,2-Diphenylhydrazine	77	11.357	11.357	{0.865}	1696442	120.000	114		
106 4-Bromophenyl-phenylether	248	12.111	12.111	{0.923}	445757	120.000	117		
107 Hexachlorobenzene	284	12.420	12.420	{0.946}	457023	120.000	116		
111 Pentachlorophenol	266	12.858	12.858	{0.980}	332735	120.000	124		
115 Phenanthrene	178	13.190	13.190	{1.005}	2187411	120.000	113		
116 Anthracene	178	13.296	13.296	{1.013}	2245691	120.000	113		
119 Carbazole	167	13.729	13.729	{1.046}	2105952	120.000	114		
120 Di-n-Butylphthalate	149	14.867	14.867	{1.133}	2552970	120.000	116		
123 Fluoranthene	202	16.133	16.133	{1.229}	2477766	120.000	115		
124 Benzidine	184	16.539	16.539	{0.837}	885974	120.000	116		
125 Pyrene	202	16.678	16.678	{0.844}	2531222	120.000	115		
131 Butylbenzylphthalate	149	18.607	18.607	{0.941}	1187769	120.000	118		
135 3,3'-Dichlorobenzidine	252	19.776	19.776	{1.000}	1058953	120.000	119		
136 Benzo (a) Anthracene	228	19.734	19.734	{0.998}	2502834	120.000	115		

679 231

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
*****	***	**	*****	*****	*****	*****	*****
137 Chrysene	228	19 841	19 841	(1 004)	2331928	120.000	114
139 bis (2-ethylhexyl) Phthalate	149	20 172	20 172	(1 020)	1680740	120.000	118
140 Di-n-octylphthalate	149	21.641	21 641	(0 936)	2853335	120.000	116
141 Benzo(b)fluoranthene	252	22.330	22 330	(0 965)	2811600	120 000	117
142 Benzo(k)fluoranthene	252	22 394	22 394	(0 968)	3030488	120.000	115 (M)
143 7,12-dimethylbenz[a]anthracen	256	22 389	22 389	(0 968)	1515335	120 000	120
146 Benzo(a)pyrene	252	23 019	23 019	(0 995)	2771152	120 000	114
149 Indeno(1,2,3-cd)pyrene	276	25 450	25 450	(1 100)	4276184	120 000	115
150 Dibenz(a,h)anthracene	278	25 498	25 498	(1 102)	3510904	120.000	115
151 Benzo(g,h,i)perylene	276	26 064	26.064	(1 127)	3792404	120.000	114
\$ 154 Nitrobenzene-d5	82	5 850	5 850	(0 868)	773904	120 000	116
\$ 155 2-Fluorobiphenyl	172	8 499	8 499	(0.867)	1339799	120 000	112
\$ 156 Terphenyl-d14	244	17 196	17 196	(0 870)	2011078	120.000	116
\$ 157 Phenol-d5	99	4 861	4 861	(0 939)	866785	120 000	114
\$ 158 2-Fluorophenol	112	3 836	3 836	(0.741)	659782	120 000	115
\$ 159 2,4,6-Tribromophenol	330	11 560	11 560	(0.881)	241363	120 000	120
\$ 186 2-Chlorophenol-d4	132	4 973	4 973	(0.961)	652627	120 000	114
\$ 187 1,2-Dichlorobenzene-d4	152	5 390	5 390	(1 041)	417337	120 000	113

QC Flag Legend

M - Compound response manually integrated.

Inj. Date and Time 26-FEB-2001 12:54

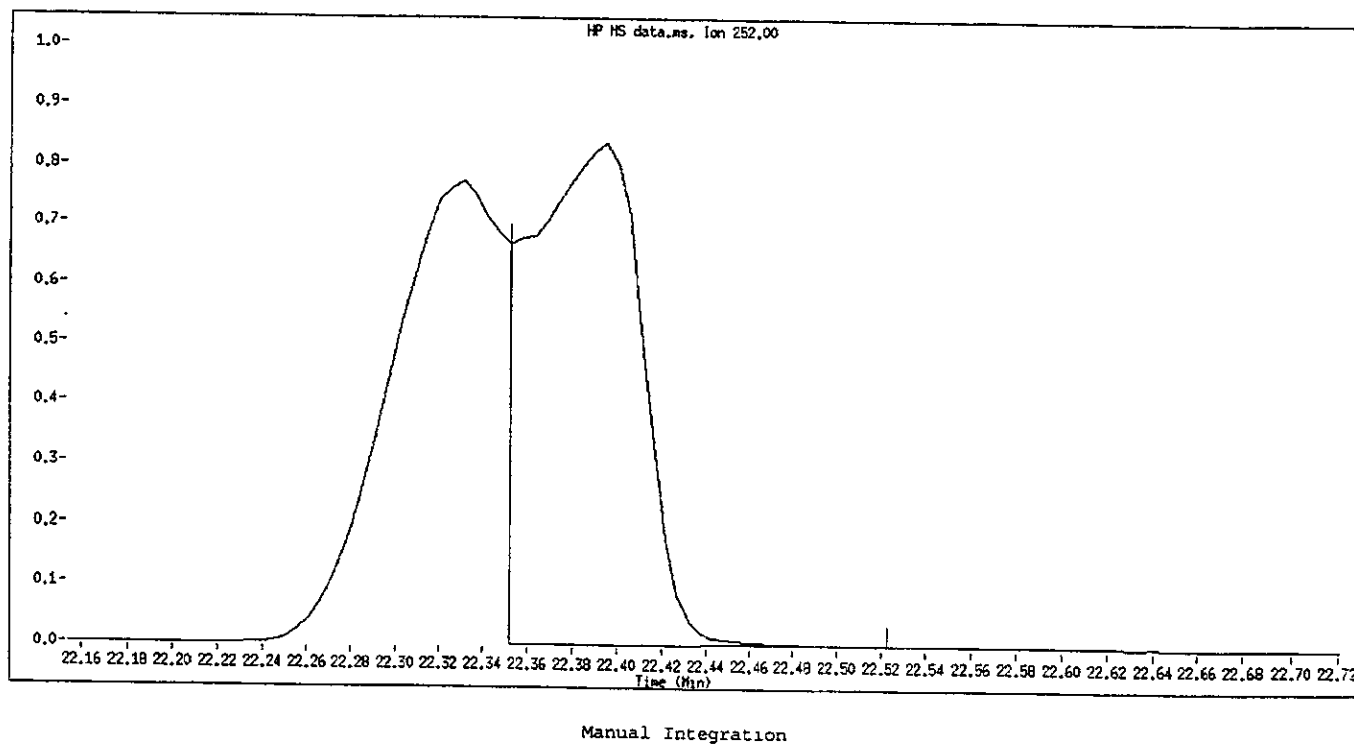
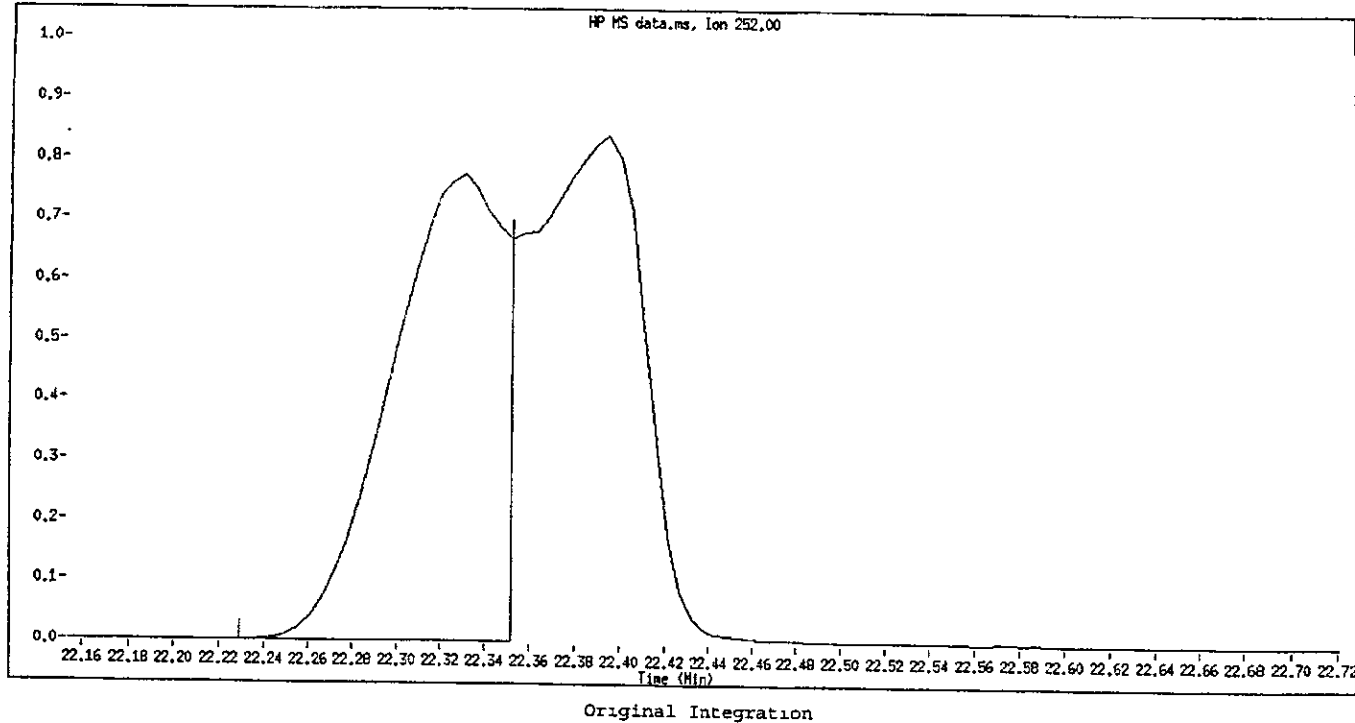
Instrument ID: 722.1

Client ID: SSTDI20

Compound Name: Benzo(k)fluoranthene

CAS #: 207-08-9

Report Date: 02/26/2001



Manually Integrated By: BungardF

Manual Integration Reason: Unknown

679

233

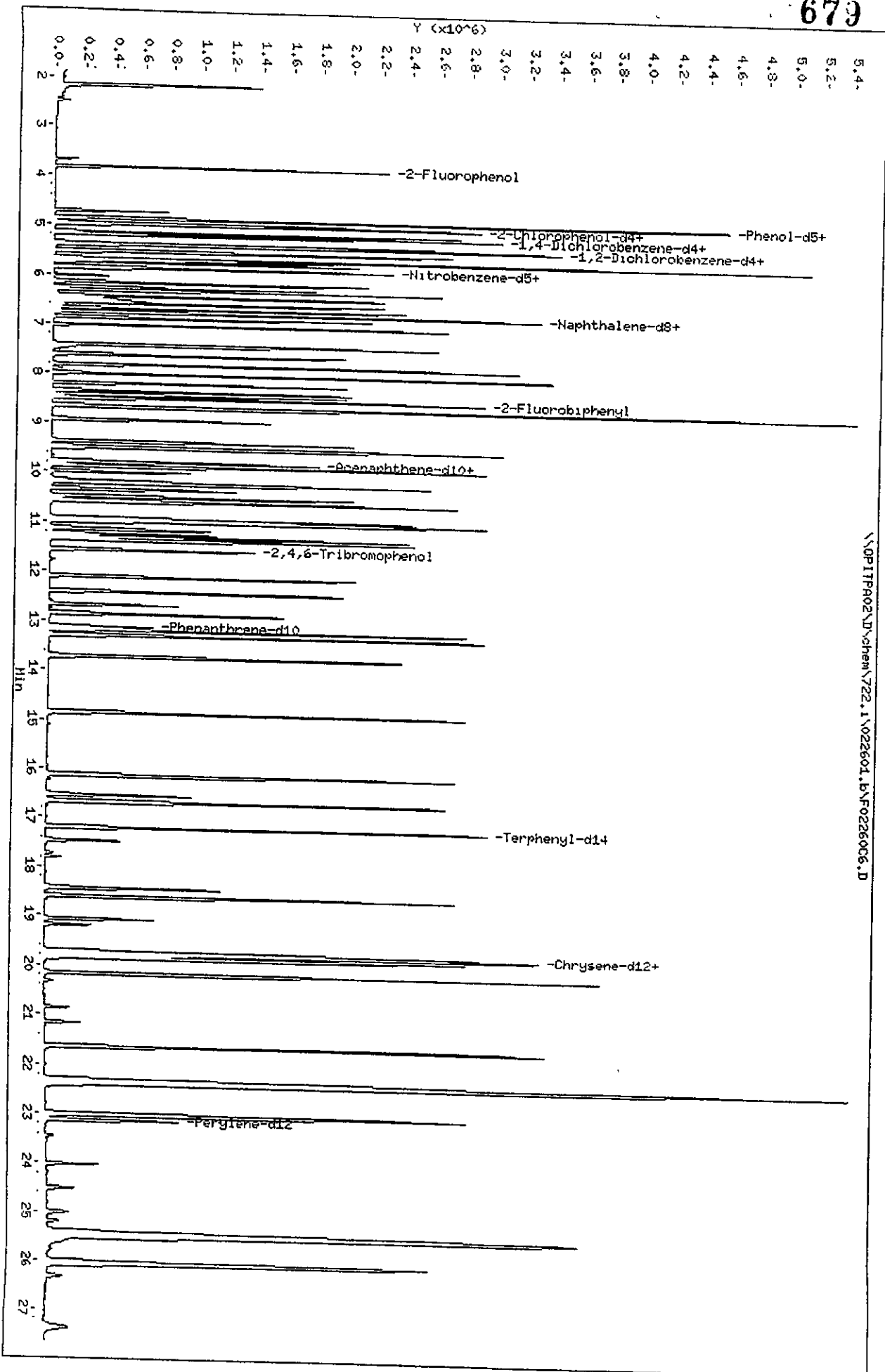
Data File: \\QP17P002\LD\chem\722.1\022601.b\F0226006.D
Date: 26-FEB-2001 13:28

Client ID:

Sample Info: SSTDL60 (80ppb) 77-11-05
Volume Injected (uL): 2.0
Column Phase: Hp5-MS

Instrument: 722.1

Operator: 007062
Column diameter: 0.25



Page 2

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C6.D
 Lab Smp Id: sstd160 Client Smp ID: SSTD160
 Inj Date : 26-FEB-2001 13:28
 Operator : 007062 Inst ID: 722.i
 Smp Info : SSTD160 (80ppb) 77-11-05
 Misc Info : sstd160,022601.b,8270b.m,2-root.sub,1,5
 Comment :
 Method : \\QPITPA02\D\chem\722.i\022601.b\8270b.m
 Meth Date : 26-Feb-2001 14:01 bungardf Quant Type: ISTD
 Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
 Als bottle: 28 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-root.sub
 Target Version: 4.04
 Processing Host: PITPC062

2/26/01

						AMOUNTS	
QUANT SIG						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5 180	5 180	(1.000)	157749	40 0000	
* 2 Naphthalene-d8	136	6 739	6 739	(1.000)	621862	40 0000	
* 3 Acenaphthene-d10	164	9.806	9.806	(1 000)	356497	40 0000	
* 4 Phenanthrene-d10	188	13 129	13.129	(1.000)	699518	40.0000	
* 5 Chrysene-d12	240	19.774	19 774	(1 000)	786917	40.0000	
* 6 Perylene-d12	264	23.129	23 129	(1 000)	857507	40.0000	
10 N-Nitrosodimethylamine	74	2.167	2 167	(0.418)	472146	160.000	154
9 Pyridine	79	2 151	2 151	(0 415)	761053	160 000	154
16 Methyl methanesulfonate	80	3.684	3.684	(0.711)	82800	160 000	164 (A)
21 Aniline	93	4.875	4 875	(0.941)	1074981	160 000	144
22 Phenol	94	4 875	4.875	(0.941)	1008689	160.000	147
23 bis (2-Chloroethyl) ether	93	4 950	4 950	(0 956)	796929	160 000	150
24 2-Chlorophenol	128	4.993	4 993	(0.964)	764898	160 000	152
26 1,3-Dichlorobenzene	146	5 142	5 142	(0.993)	848680	160.000	151
27 1,4-Dichlorobenzene	146	5 196	5.196	(1 003)	864966	160 000	151
28 1,2-Dichlorobenzene	146	5 404	5.404	(1.043)	801486	160 000	151
29 Benzyl Alcohol	108	5 367	5 367	(1.036)	612072	160.000	155
30 2-Methylphenol	108	5.516	5 516	(1.065)	707852	160.000	151
31 2,2'-oxybis (1-Chloropropane)	45	5.537	5 537	(1 069)	1360776	160 000	146
32 N-Nitroso-di-n-propylamine	70	5 708	5 708	(1.102)	665675	160 000	156
192 4-Methylphenol	108	5.682	5.682	(1 097)	756417	160 000	152
34 Hexachloroethane	117	5.756	5.756	(1.111)	347228	160.000	154
35 Nitrobenzene	77	5 874	5 874	(0.872)	958393	160.000	152
41 Isophorone	82	6.152	6.152	(0.913)	1532360	160 000	153
42 2-Nitrophenol	139	6 259	6 259	(0.929)	442995	160 000	157
43 2,4-Dimethylphenol	107	6 312	6 312	(0 937)	813394	160 000	154

679 235

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
44 bis (2-Chloroethoxy)methane	93	6.440	6.440	(0.956)	943193	160.000	151
48 2,4-Dichlorophenol	162	6.568	6.568	(0.975)	632950	160.000	154
49 Benzoic Acid	122	6.536	6.536	(0.970)	498104	160.000	199 (A)
50 1,2,4-Trichlorobenzene	180	6.681	6.681	(0.991)	713530	160.000	154
51 Naphthalene	128	6.766	6.766	(1.004)	2172021	160.000	148
52 4-Chloroaniline	127	6.868	6.868	(1.019)	889439	160.000	150
56 Hexachlorobutadiene	225	7.017	7.017	(1.041)	472135	160.000	158
59 4-Chloro-3-Methylphenol	107	7.616	7.616	(1.130)	741657	160.000	157
62 2-Methylnaphthalene	142	7.819	7.819	(1.160)	1509995	160.000	152
205 1-Methylnaphthalene	142	8.006	8.006	(1.188)	1588254	160.000	153
64 Hexachlorocyclopentadiene	237	8.203	8.203	(0.837)	542628	160.000	169 (A)
66 2,4,6-Trichlorophenol	196	8.358	8.358	(0.852)	494027	160.000	159
67 2,4,5-Trichlorophenol	196	8.433	8.433	(0.860)	527562	160.000	160
70 2-Chloronaphthalene	162	8.679	8.679	(0.885)	1430021	160.000	155
73 2-Nitroaniline	65	8.946	8.946	(0.912)	586593	160.000	161 (A)
76 Dimethylphthalate	163	9.389	9.389	(0.958)	1708494	160.000	155
78 2,6-Dinitrotoluene	165	9.517	9.517	(0.971)	407508	160.000	161 (A)
79 Acenaphthylene	152	9.491	9.491	(0.968)	2156952	160.000	151
81 3-Nitroaniline	138	9.790	9.790	(0.998)	462471	160.000	160 (A)
82 Acenaphthene	153	9.875	9.875	(1.007)	1440717	160.000	153
83 2,4-Dinitrophenol	184	10.003	10.003	(1.020)	272973	160.000	208 (A)
85 4-Nitrophenol	109	10.180	10.180	(1.038)	296866	160.000	166 (A)
86 Dibenzofuran	168	10.217	10.217	(1.042)	2062394	160.000	152
87 2,4-Dinitrotoluene	165	10.345	10.345	(1.055)	570928	160.000	163 (A)
91 2,3,5,6-Tetrachlorophenol	232	10.490	10.490	(1.070)	554246	160.000	163 (A)
88 2,3,4,6-Tetrachlorophenol	232	10.596	10.596	(1.081)	530992	160.000	162 (A)
92 2-Naphthylamine	143	10.570	10.570	(1.078)	1137496	160.000	132
93 Diethylphthalate	149	10.933	10.933	(1.115)	1747345	160.000	155
94 Fluorene	166	10.970	10.970	(1.119)	1704997	160.000	152
95 4-Chlorophenyl-phenylether	204	11.002	11.002	(1.122)	866885	160.000	156
96 4-Nitroaniline	138	11.152	11.152	(1.137)	479250	160.000	161 (A)
98 4,6-Dinitro-2-methylphenol	198	11.243	11.243	(0.856)	361922	160.000	184 (A)
99 N-Nitrosodiphenylamine	169	11.302	11.302	(0.861)	1248741	160.000	145
100 1,2-Diphenylhydrazine	77	11.360	11.360	(0.865)	1990971	160.000	152
106 4-Bromophenyl-phenylether	248	12.114	12.114	(0.923)	524710	160.000	156
107 Hexachlorobenzene	284	12.423	12.423	(0.946)	543801	160.000	156
111 Pentachlorophenol	266	12.862	12.862	(0.980)	398040	160.000	165 (A)
115 Phenanthrene	178	13.193	13.193	(1.005)	2559683	160.000	151
116 Anthracene	178	13.300	13.300	(1.013)	2616154	160.000	151
119 Carbazole	167	13.738	13.738	(1.046)	2473750	160.000	153
120 Di-n-Butylphthalate	149	14.865	14.865	(1.132)	2986920	160.000	154
123 Fluoranthene	202	16.136	16.136	(1.229)	2927668	160.000	154
124 Benzidine	184	16.542	16.542	(0.837)	887027	160.000	135
125 Pyrene	202	16.676	16.676	(0.843)	2872087	160.000	149
131 Butylbenzylphthalate	149	18.610	18.610	(0.941)	1420815	160.000	158
135 3,3'-Dichlorobenzidine	252	19.780	19.780	(1.000)	1249534	160.000	158
136 Benzo (a) Anthracene	228	19.737	19.737	(0.998)	2966038	160.000	154

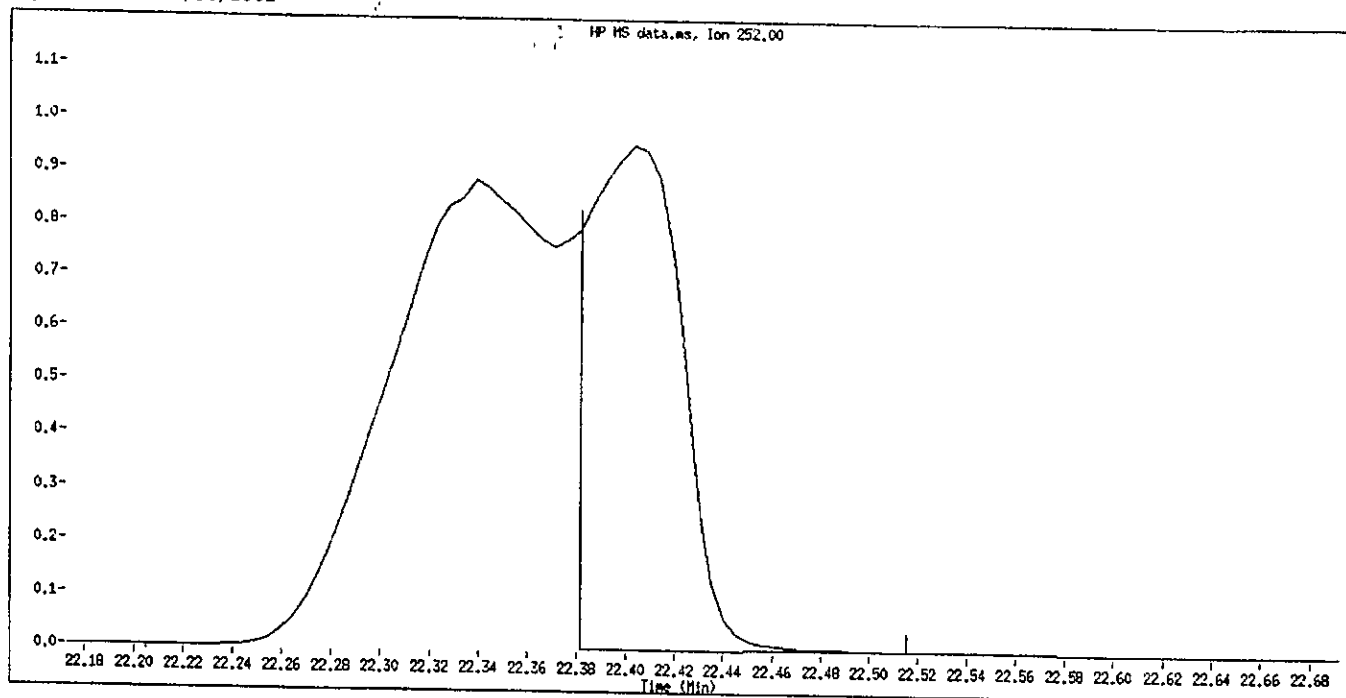
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
=====	=====	==	=====	=====	=====	=====	=====
137 Chrysene	228	19 849	19 849	(1 004)	2768687	160.000	153
139 bis(2-ethylhexyl)Phthalate	149	20 175	20 175	(1.020)	1983992	160 000	157
140 Di-n-octylphthalate	149	21 644	21.644	(0.936)	3371189	160 000	153
141 Benzo(b)fluoranthene	252	22 338	22 338	(0 966)	3906188	160 000	175 (A)
142 Benzo(k)fluoranthene	252	22 403	22.403	(0 969)	3055594	160 000	133 (M)
143 7,12-dimethylbenz[a]anthracen	256	22 397	22 397	(0.968)	1862271	160 000	163 (A)
146 Benzo(a)pyrene	252	23 028	23.028	(0 996)	3308324	160 000	153
149 Indeno(1,2,3-cd)pyrene	276	25 458	25 458	(1 101)	5134111	160 000	154
150 Dibenz(a,h)anthracene	278	25 506	25.506	(1 103)	4211488	160.000	154
151 Benzo(g,h,i)perylene	276	26 073	26.073	(1.127)	4536388	160 000	153
\$ 154 Nitrobenzene-d5	82	5.853	5.853	(0.868)	918797	160.000	154
\$ 155 2-Fluorobiphenyl	172	8.502	8 502	(0.867)	1586225	160.000	152
\$ 156 Terphenyl-d14	244	17 199	17.199	(0 870)	2368865	160.000	154
\$ 157 Phenol-d5	99	4.864	4 864	(0 939)	1032308	160 000	152
\$ 158 2-Fluorophenol	112	3.839	3 839	(0.741)	790682	160.000	154
\$ 159 2,4,6-Tribromophenol	330	11.563	11 563	(0 881)	291119	160 000	162 (A)
\$ 186 2-Chlorophenol-d4	132	4 977	4 977	(0.961)	779636	160 000	153
\$ 187 1,2-Dichlorobenzene-d4	152	5.393	5.393	(1 041)	500757	160 000	152

QC Flag Legend

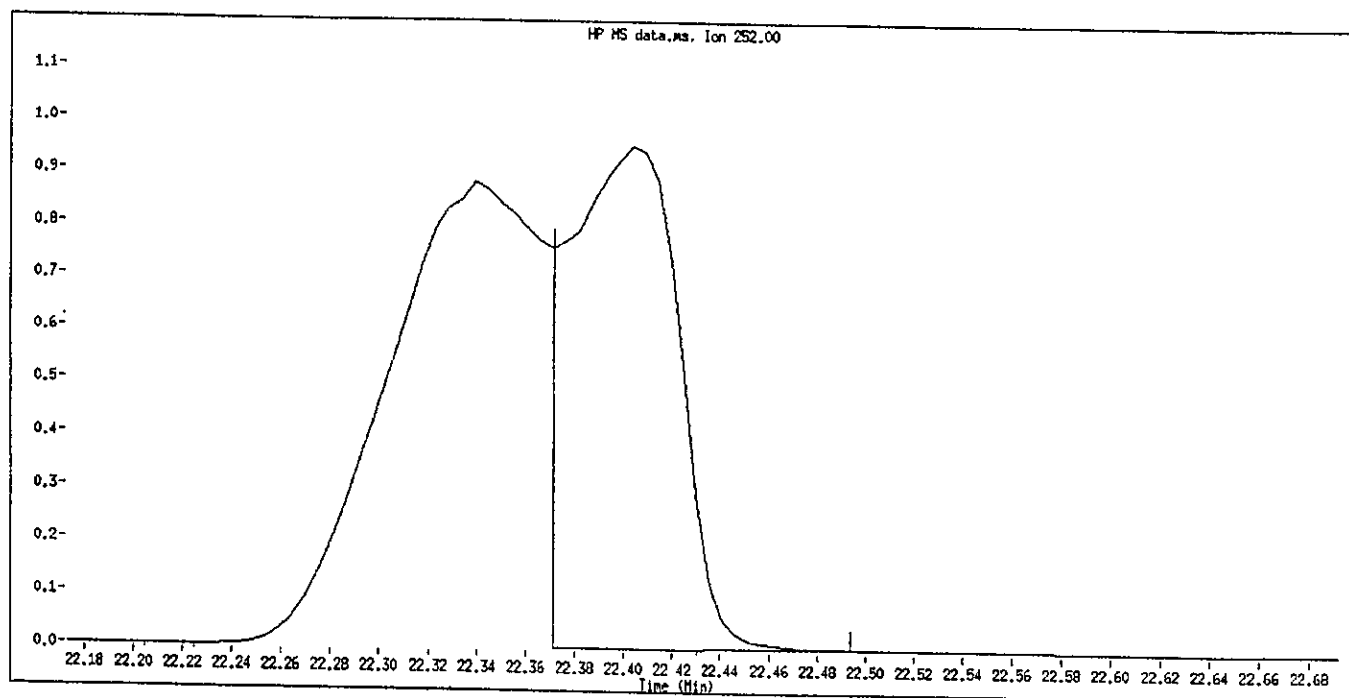
- A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File Name F02260C6 D
Inj. Date and Time 26-FEB-2001 13 28
Instrument ID 722 1
Client ID SSTD160
Compound Name Benzo(k)fluoranthene
CAS #. 207-08-9
Report Date 02/26/2001

679 237



Original Integration



Manual Integration

Manually Integrated By BungardF
Manual Integration Reason: Unknown

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: _

Instrument ID: 722

Calibration Date(s): 03/27/01

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

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF1	=F03270C3.D	RRF2	=F03270C2.D			
RRF3		=F03270C4.D	RRF4	=F03270C5.D	RRF5	=F03270C6.D		
COMPOUND		RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD
=====		=====	=====	=====	=====	=====	=====	=====
Phenol	*	1.774	1.736	1.654	1.584	1.553	1.660	5.7*
bis(2-Chloroethyl) ether		1.355	1.336	1.282	1.246	1.230	1.290	4.2
2-Chlorophenol		1.319	1.299	1.251	1.206	1.170	1.249	5.0
1,3-Dichlorobenzene		1.480	1.473	1.422	1.365	1.336	1.415	4.5
1,4-Dichlorobenzene	*	1.533	1.514	1.455	1.402	1.360	1.453	5.0*
1,2-Dichlorobenzene		1.414	1.393	1.337	1.288	1.274	1.341	4.6
2-Methylphenol		1.341	1.280	1.248	1.198	1.173	1.248	5.3
2,2'-oxybis(1-Chloropropane		2.313	2.261	2.129	1.927	1.838	2.094	9.9
4-Methylphenol		1.241	1.227	1.191	1.164	1.145	1.194	3.4
Hexachloroethane		0.574	0.584	0.572	0.569	0.559	0.572	1.5
Nitrobenzene		0.405	0.402	0.397	0.386	0.386	0.395	2.3
Isophorone		0.617	0.618	0.611	0.597	0.590	0.607	2.0
2-Nitrophenol	*	0.180	0.184	0.184	0.182	0.182	0.182	1.0*
2,4-Dimethylphenol		0.334	0.339	0.334	0.334	0.333	0.335	0.7
bis(2-Chloroethoxy)methane		0.394	0.395	0.388	0.380	0.378	0.387	2.0
N-Nitroso-di-n-propylamine	#	0.984	0.990	0.977	0.966	0.970	0.977	1.0#
2,4-Dichlorophenol	*	0.262	0.266	0.262	0.260	0.259	0.262	1.0*
1,2,4-Trichlorobenzene		0.298	0.302	0.299	0.294	0.296	0.298	0.9
Naphthalene		0.994	0.980	0.955	0.910	0.893	0.946	4.6
4-Chloroaniline		0.372	0.374	0.363	0.353	0.349	0.362	3.1
Hexachlorobutadiene	*	0.184	0.186	0.188	0.192	0.194	0.189	2.2*
4-Chloro-3-Methylphenol	*	0.269	0.279	0.278	0.280	0.283	0.278	1.9*
2-Methylnaphthalene		0.637	0.635	0.635	0.624	0.620	0.630	1.2
Hexachlorocyclopentadiene	#	0.256	0.305	0.328	0.356	0.365	0.322	13.6#
2,4,6-Trichlorophenol	*	0.333	0.344	0.340	0.340	0.342	0.340	1.2*
2,4,5-Trichlorophenol		0.360	0.371	0.371	0.376	0.381	0.372	2.1
2-Chloronaphthalene		1.111	1.120	1.111	1.077	1.077	1.099	1.9
2-Nitroaniline		0.382	0.391	0.396	0.396	0.396	0.392	1.6
Dimethylphthalate		1.186	1.214	1.213	1.194	1.199	1.201	1.0
Acenaphthylene		1.621	1.639	1.628	1.587	1.574	1.610	1.7
2,6-Dinitrotoluene		0.261	0.278	0.280	0.281	0.281	0.276	3.1
3-Nitroaniline		0.296	0.314	0.317	0.321	0.319	0.313	3.2
Acenaphthene	*	1.059	1.073	1.062	1.050	1.050	1.059	0.9*
2,4-Dinitrophenol	#	0.098	0.148	0.164	0.177	0.180	0.153	21.7#
4-Nitrophenol	#	0.156	0.179	0.183	0.189	0.192	0.180	8.0#
Dibenzofuran		1.528	1.534	1.516	1.486	1.480	1.509	1.6
2,4-Dinitrotoluene		0.346	0.370	0.375	0.376	0.376	0.369	3.5

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

679 239

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: _

Instrument ID: 722

Calibration Date(s): 03/27/01

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

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF1 =F03270C3.D	RRF2 =F03270C2.D
RRF3 =F03270C4.D		RRF4 =F03270C5.D	RRF5 =F03270C6.D

COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	RRF	% RSD
=====	=====	=====	=====	=====	=====	=====	=====
Diethylphthalate	1.159	1.220	1.230	1.238	1.246	1.219	2.8
4-Chlorophenyl-phenylether	0.585	0.601	0.603	0.608	0.615	0.602	1.8
Fluorene	1.211	1.240	1.244	1.253	1.254	1.240	1.4
4-Nitroaniline	0.288	0.306	0.310	0.310	0.310	0.305	3.2
4,6-Dinitro-2-methylphenol	0.102	0.123	0.132	0.137	0.141	0.127	12.2
N-Nitrosodiphenylamine (1) *	0.515	0.559	0.574	0.468	0.500	0.523	8.2*
4-Bromophenyl-phenylether	0.190	0.192	0.192	0.197	0.201	0.194	2.3
Hexachlorobenzene	0.194	0.198	0.196	0.199	0.204	0.198	1.9
Pentachlorophenol #	0.077	0.112	0.103	0.115	0.122	0.106	16.3#
Phenanthrene	0.997	1.005	0.989	0.980	0.988	0.992	1.0
Anthracene	1.007	1.022	1.017	1.012	1.026	1.017	0.8
Carbazole	0.908	0.932	0.924	0.924	0.935	0.925	1.1
Di-n-Butylphthalate	1.081	1.144	1.143	1.139	1.157	1.133	2.6
Fluoranthene *	1.018	1.066	1.067	1.077	1.097	1.065	2.7*
Pyrene	1.005	0.991	0.950	0.881	0.860	0.937	6.9
Butylbenzylphthalate	0.466	0.472	0.458	0.428	0.424	0.450	4.9
3,3'-Dichlorobenzidine	0.394	0.417	0.404	0.418	0.421	0.411	2.8
Benzo (a) Anthracene	0.971	0.962	0.944	0.896	0.899	0.934	3.8
Chrysene	0.922	0.917	0.889	0.850	0.853	0.886	3.8
bis(2-ethylhexyl) Phthalate	0.644	0.659	0.644	0.610	0.604	0.632	3.8
Di-n-octylphthalate *	1.199	1.248	1.200	1.135	1.128	1.182	4.2*
Benzo (b) fluoranthene	1.065	1.053	1.117	1.169	1.194	1.120	5.5
Benzo (k) fluoranthene	1.179	1.288	1.237	1.268	1.335	1.261	4.6
Benzo (a) pyrene *	1.015	1.044	1.039	1.050	1.076	1.045	2.1*
Indeno (1,2,3-cd) pyrene	1.327	1.400	1.455	1.555	1.597	1.467	7.5
Dibenz (a,h) anthracene	1.126	1.183	1.238	1.340	1.389	1.255	8.7
Benzo (g,h,i) perylene	1.137	1.195	1.242	1.264	1.286	1.225	4.9
Pyridine	1.257	1.267	1.191	1.152	1.153	1.204	4.6
N-Nitrosodimethylamine	0.777	0.770	0.744	0.723	0.711	0.745	3.9
Aniline	1.919	1.899	1.683	1.573	1.528	1.720	10.5
Benzyl Alcohol	0.734	0.826	0.819	0.837	0.842	0.812	5.5
Benzoic Acid	0.127	0.174	0.176	0.183	0.192	0.170	14.9
2,3,4,6-Tetrachlorophenol	0.302	0.316	0.316	0.345	0.350	0.326	6.4
2,3,5,6-Tetrachlorophenol	0.288	0.325	0.324	0.335	0.343	0.323	6.6
1,2-Diphenylhydrazine	0.820	0.822	0.804	0.790	0.801	0.807	1.7

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

679 240

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No. :

SAS No.:

SDG No. :

Instrument ID: 722

Calibration Date(s): 03/27/01

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

Max %RSD for CCC(*) = 30.0%

[illegible]

Data File: \\QPITPA02\d\chem\722.i\032701.b\F03270C6.D
Report Date: 03/27/2001

679 241

INITIAL CALIBRATION REPORT

Instrument ID: 722.i
Lab File ID: F03270C6.D
Analysis Type: NONE

Injection Date: 27-MAR-2001 14:51
Lab Sample ID: sstd160
Method File: \\QPITPA02\D\chem\722.i\032701.b\

COMPOUND	%RSD
-----	-----
Benzo(b)fluoranthene	5.5
7,12-dimethylbenz[a]anthracene	12.6
Benzo(k)fluoranthene	4.6
Benzo(a)pyrene	2.1
Indeno(1,2,3-cd)pyrene	7.5
Dibenz(a,h)anthracene	8.7
Benzo(g,h,i)perylene	4.9

The average of all %RSD's in the initial calibration is 4.9

Report Date: 03/27/2001

679 242

INITIAL CALIBRATION REPORT

Instrument ID: 722.i

Injection Date: 27-MAR-2001 14:51

Lab File ID: F03270C6.D

Lab Sample ID: sstd160

Analysis Type: NONE

Method File: \\QPITPA02\D\chem\722.i\032701.b\8270b.m

COMPOUND	%RSD
Pyridine	4.6
N-Nitrosodimethylamine	3.9
Methyl methanesulfonate	21.6
2-Fluorophenol	4.6
Aniline	10.5
Phenol-d5	5.7
Phenol	5.7
bis(2-Chloroethyl) ether	4.2
2-Chlorophenol-d4	4.2
2-Chlorophenol	5.0
1,3-Dichlorobenzene	4.5
1,4-Dichlorobenzene	5.0
Benzyl Alcohol	5.5
1,2-Dichlorobenzene-d4	3.6
1,2-Dichlorobenzene	4.6
2-Methylphenol	5.3
2,2'-oxybis(1-Chloropropane)	9.9
4-Methylphenol	3.4
N-Nitroso-di-n-propylamine	1.0
Hexachloroethane	1.5
Nitrobenzene-d5	1.4
Nitrobenzene	2.3
Isophorone	2.0
2-Nitrophenol	1.0
2,4-Dimethylphenol	0.7
bis(2-Chloroethoxy)methane	2.0
Benzoic Acid	14.9
2,4-Dichlorophenol	1.0
1,2,4-Trichlorobenzene	0.9
Naphthalene	4.6
4-Chloroaniline	3.1
Hexachlorobutadiene	2.2
4-Chloro-3-Methylphenol	1.9
2-Methylnaphthalene	1.2
1-Methylnaphthalene	1.6
Hexachlorocyclopentadiene	13.6
2,4,6-Trichlorophenol	1.2
2,4,5-Trichlorophenol	2.1
2-Fluorobiphenyl	2.5

679 243

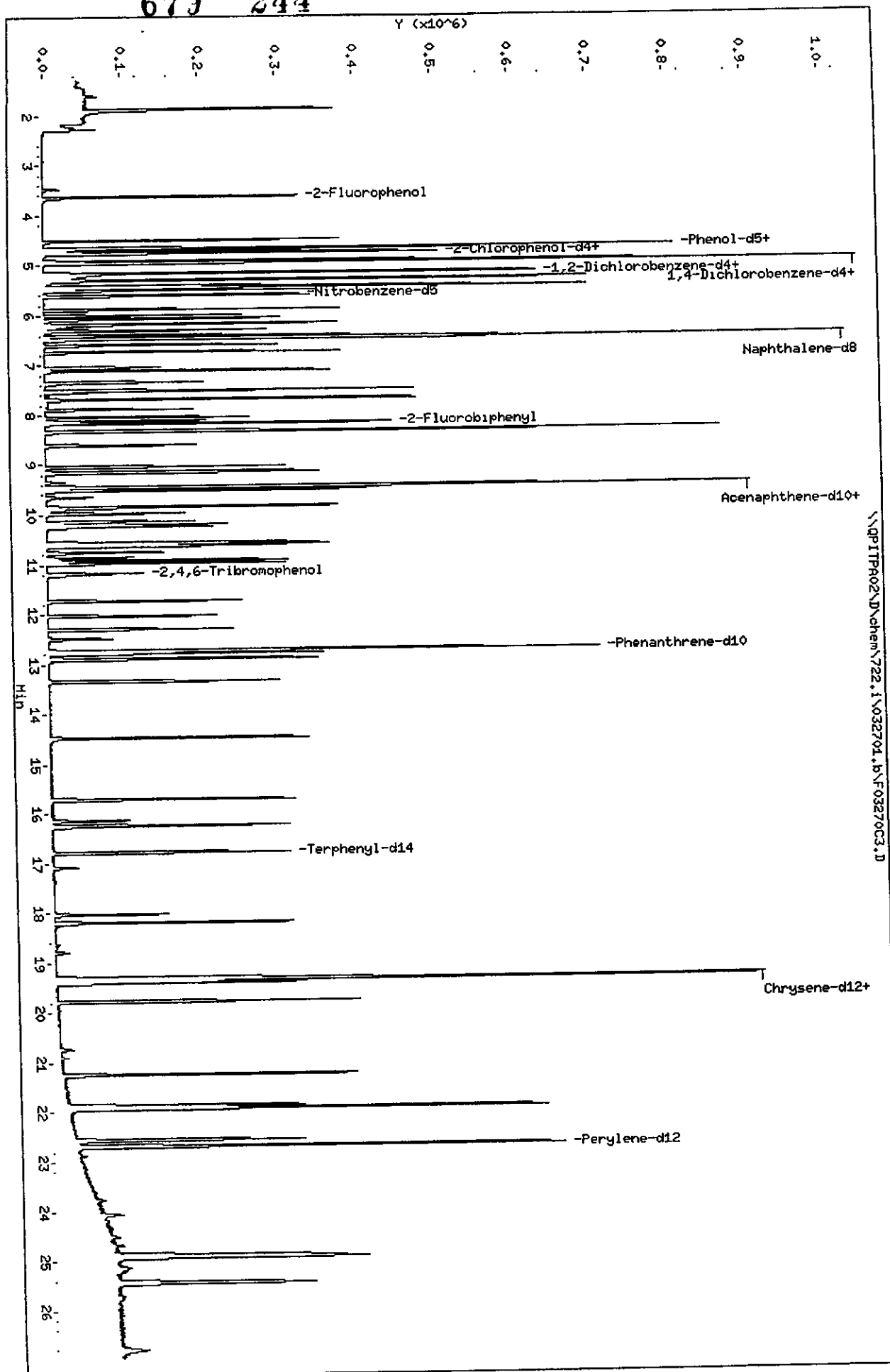
INITIAL CALIBRATION REPORT

Instrument ID: 722.i
Lab File ID: F03270C6.D
Analysis Type: NONE

Injection Date: 27-MAR-2001 14:51
Lab Sample ID: sstd160
Method File: \\QPITPA02\D\chem\722.i\032701.b\

COMPOUND	%RSD
2-Chloronaphthalene	1.9
2-Nitroaniline	1.6
Dimethylphthalate	1.0
Acenaphthylene	1.7
2,6-Dinitrotoluene	3.1
3-Nitroaniline	3.2
Acenaphthene	0.9
2,4-Dinitrophenol	21.7
Dibenzofuran	1.6
4-Nitrophenol	8.0
2,4-Dinitrotoluene	3.5
2,3,5,6-Tetrachlorophenol	6.6
2-Naphthylamine	14.9
2,3,4,6-Tetrachlorophenol	6.4
Diethylphthalate	2.8
Fluorene	1.4
4-Chlorophenyl-phenylether	1.8
4-Nitroaniline	3.2
4,6-Dinitro-2-methylphenol	12.2
N-Nitrosodiphenylamine	8.2
1,2-Diphenylhydrazine	1.7
2,4,6-Tribromophenol	5.8
4-Bromophenyl-phenylether	2.3
Hexachlorobenzene	1.9
Pentachlorophenol	16.3
Phenanthrene	1.0
Anthracene	0.8
Carbazole	1.1
Di-n-Butylphthalate	2.6
Fluoranthene	2.7
Benzidine	14.7
Pyrene	6.9
Terphenyl-d14	4.7
Butylbenzylphthalate	4.9
Benzo(a)Anthracene	3.8
3,3'-Dichlorobenzidine	2.8
Chrysene	3.8
bis(2-ethylhexyl)Phthalate	3.8
Di-n-octylphthalate	4.2

673 244



Data File: \\QPI7P602\\D\\chem\\722.1\\032701.b\\F03270C3.D
 Date : 27-MAR-2001 13:13
 Client ID:
 Sample Info: SST020 (10ppb) 77-11-1
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

Instrument: 722.i
 Operator: 007062
 Column diameter: 0.25

679 245

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032701.b\F03270C3.D
Lab Smp Id: sstd020 Client Smp ID: SSTD020
Inj Date : 27-MAR-2001 13:13
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD020 (10ppb) 77-11-1
Misc Info : sstd020,032701.b,8270b.m,2-root.sub,1,1
Comment :
Method : \\QPITPA02\D\chem\722.i\032701.b\8270b.m
Meth Date : 27-Mar-2001 13:46 bungardf Quant Type: ISTD
Cal Date : 27-MAR-2001 13:13 Cal File: F03270C3.D
Als bottle: 24 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.954	4.954	(1.000)	182188	40.0000	
* 2 Naphthalene-d8	136	6.461	6.461	(1.000)	673897	40.0000	
* 3 Acenaphthene-d10	164	9.452	9.452	(1.000)	346851	40.0000	
* 4 Phenanthrene-d10	188	12.732	12.732	(1.000)	582491	40.0000	
* 5 Chrysene-d12	240	19.340	19.340	(1.000)	606559	40.0000	
* 6 Perylene-d12	264	22.690	22.690	(1.000)	567619	40.0000	
10 N-Nitrosodimethylamine	74	1.888	1.888	(0.381)	70801	20.0000	20.1
9 Pyridine	79	1.888	1.888	(0.381)	114516	20.0000	19.9
16 Methyl methanesulfonate	80	3.474	3.474	(0.701)	11774	20.0000	26.0
21 Aniline	93	4.660	4.660	(0.941)	174783	20.0000	20.1
22 Phenol	94	4.676	4.676	(0.944)	161573	20.0000	20.2
23 bis(2-Chloroethyl) ether	93	4.724	4.724	(0.954)	123422	20.0000	20.1
24 2-Chlorophenol	128	4.772	4.772	(0.963)	120152	20.0000	20.1
26 1,3-Dichlorobenzene	146	4.911	4.911	(0.991)	134826	20.0000	20.0
27 1,4-Dichlorobenzene	146	4.970	4.970	(1.003)	139640	20.0000	20.1
28 1,2-Dichlorobenzene	146	5.173	5.173	(1.044)	128797	20.0000	20.2
29 Benzyl Alcohol	108	5.178	5.178	(1.045)	66876	20.0000	18.8 (M)
30 2-Methylphenol	108	5.296	5.296	(1.069)	122139	20.0000	20.5
31 2,2'-oxybis(1-Chloropropane)	45	5.301	5.301	(1.070)	210745	20.0000	20.2
32 N-Nitroso-di-n-propylamine	70	5.456	5.456	(1.101)	89643	20.0000	19.9
192 4-Methylphenol	108	5.456	5.456	(1.101)	113022	20.0000	20.1
34 Hexachloroethane	117	5.510	5.510	(1.112)	52285	20.0000	19.8
35 Nitrobenzene	77	5.622	5.622	(0.870)	136613	20.0000	20.1
41 Isophorone	82	5.889	5.889	(0.912)	207810	20.0000	20.0
42 2-Nitrophenol	139	6.001	6.001	(0.929)	60624	20.0000	19.8
43 2,4-Dimethylphenol	107	6.071	6.071	(0.940)	112709	20.0000	19.9

679 246

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	----	==	-----	-----	-----	-----	-----
44 bis(2-Chloroethoxy)methane	93	6.177	6.177	(0.956)	132920	20.0000	20.0
48 2,4-Dichlorophenol	162	6.311	6.311	(0.977)	88185	20.0000	19.8
49 Benzoic Acid	122	6.199	6.199	(0.959)	42675	20.0000	16.9 (H)
50 1,2,4-Trichlorobenzene	180	6.407	6.407	(0.992)	100366	20.0000	19.9
51 Naphthalene	128	6.487	6.487	(1.004)	334922	20.0000	20.1
52 4-Chloroaniline	127	6.599	6.599	(1.021)	125309	20.0000	19.9
56 Hexachlorobutadiene	225	6.738	6.738	(1.043)	61882	20.0000	19.9
59 4-Chloro-3-Methylphenol	107	7.342	7.342	(1.136)	90645	20.0000	19.6
62 2-Methylnaphthalene	142	7.513	7.513	(1.163)	214770	20.0000	20.0
205 1-Methylnaphthalene	142	7.689	7.689	(1.190)	214565	20.0000	19.6
64 Hexachlorocyclopentadiene	237	7.887	7.887	(0.834)	44327	20.0000	18.2
66 2,4,6-Trichlorophenol	196	8.047	8.047	(0.851)	57697	20.0000	19.7
67 2,4,5-Trichlorophenol	196	8.122	8.122	(0.859)	62511	20.0000	19.7
70 2-Chloronaphthalene	162	8.341	8.341	(0.882)	192724	20.0000	19.9
73 2-Nitroaniline	65	8.608	8.608	(0.911)	66212	20.0000	19.8
76 Dimethylphthalate	163	9.041	9.041	(0.956)	205778	20.0000	19.8
78 2,6-Dinitrotoluene	165	9.169	9.169	(0.970)	45252	20.0000	19.4
79 Acenaphthylene	152	9.137	9.137	(0.967)	281184	20.0000	19.9
81 3-Nitroaniline	138	9.431	9.431	(0.998)	51355	20.0000	19.4
82 Acenaphthene	153	9.516	9.516	(1.007)	183741	20.0000	19.9
83 2,4-Dinitrophenol	184	9.650	9.650	(1.021)	17098	20.0000	16.0
85 4-Nitrophenol	109	9.874	9.874	(1.045)	27051	20.0000	18.6
86 Dibenzofuran	168	9.847	9.847	(1.042)	265045	20.0000	20.0
87 2,4-Dinitrotoluene	165	9.976	9.976	(1.055)	59977	20.0000	19.3
91 2,3,5,6-Tetrachlorophenol	232	10.131	10.131	(1.072)	49865	20.0000	18.8
88 2,3,4,6-Tetrachlorophenol	232	10.232	10.232	(1.083)	52329	20.0000	19.5
92 2-Naphthylamine	143	10.195	10.195	(1.079)	160725	20.0000	20.2
93 Diethylphthalate	149	10.558	10.558	(1.117)	201042	20.0000	19.5
94 Fluorene	166	10.590	10.590	(1.120)	210040	20.0000	19.8
95 4-Chlorophenyl-phenylether	204	10.633	10.633	(1.125)	101465	20.0000	19.7
96 4-Nitroaniline	138	10.756	10.756	(1.138)	49914	20.0000	19.4
98 4,6-Dinitro-2-methylphenol	198	10.857	10.857	(0.853)	29741	20.0000	18.1
99 N-Nitrosodiphenylamine	169	10.921	10.921	(0.858)	149930	20.0000	19.2
100 1,2-Diphenylhydrazine	77	10.975	10.975	(0.862)	238991	20.0000	20.0
106 4-Bromophenyl-phenylether	248	11.728	11.728	(0.921)	55273	20.0000	19.9
107 Hexachlorobenzene	284	12.027	12.027	(0.945)	56403	20.0000	19.8
111 Pentachlorophenol	266	12.481	12.481	(0.980)	22563	20.0000	16.3
115 Phenanthrene	178	12.786	12.786	(1.004)	290477	20.0000	19.9
116 Anthracene	178	12.892	12.892	(1.013)	293356	20.0000	19.8
119 Carbazole	167	13.336	13.336	(1.047)	264454	20.0000	19.7
120 Di-n-Butylphthalate	149	14.474	14.474	(1.137)	314737	20.0000	19.4
123 Fluoranthene	202	15.708	15.708	(1.234)	296532	20.0000	19.5
124 Benzidine	184	16.141	16.141	(0.835)	96814	20.0000	18.5
125 Pyrene	202	16.247	16.247	(0.840)	304879	20.0000	20.1
131 Butylbenzylphthalate	149	18.192	18.192	(0.941)	141226	20.0000	19.9
135 3,3'-Dichlorobenzidine	252	19.351	19.351	(1.001)	119587	20.0000	19.4
136 Benzo(a)Anthracene	228	19.298	19.298	(0.998)	294514	20.0000	20.1

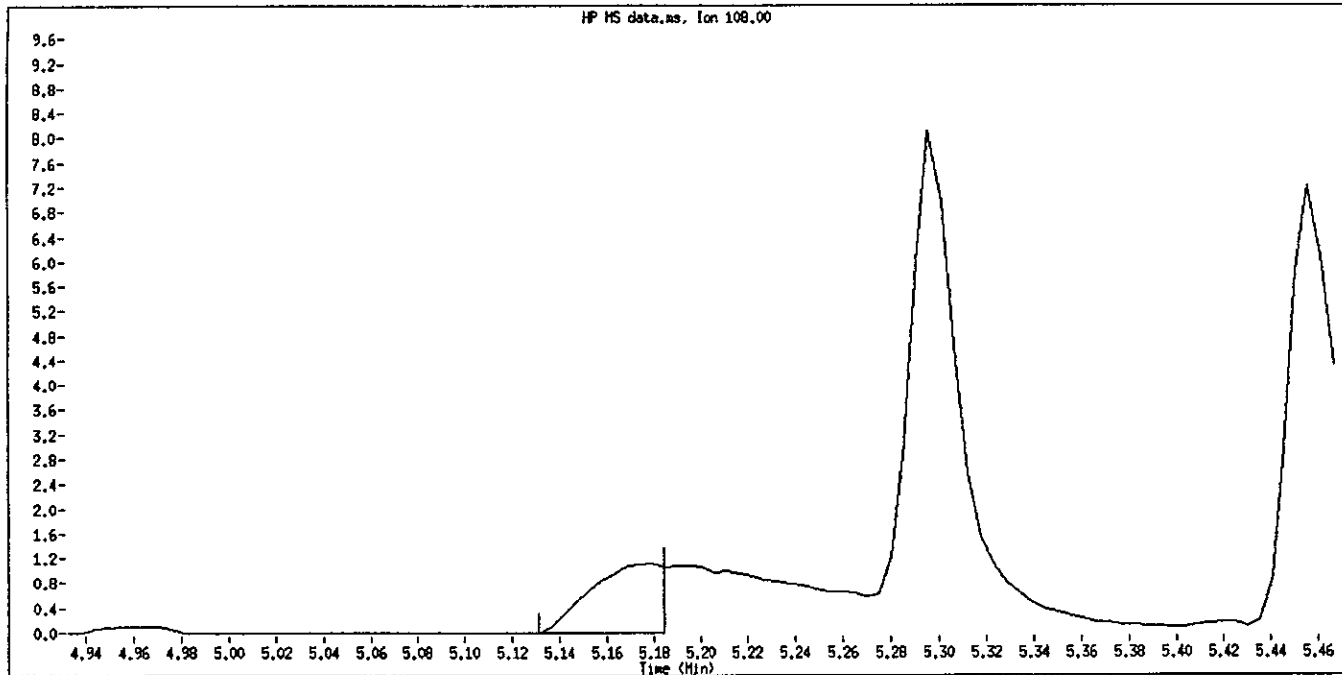
679 247

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)
137 Chrysene	228	19.399	19.399	(1.003)	279514	20.0000	20.0
139 bis(2-ethylhexyl)Phthalate	149	19.768	19.768	(1.022)	195275	20.0000	19.8
140 Di-n-octylphthalate	149	21.232	21.232	(0.936)	340356	20.0000	19.6
141 Benzo(b)fluoranthene	252	21.867	21.867	(0.964)	302335	20.0000	20.1
142 Benzo(k)fluoranthene	252	21.921	21.921	(0.966)	334650	20.0000	19.1
143 7,12-dimethylbenz[a]anthracene	256	21.921	21.921	(0.966)	150634	20.0000	18.3
146 Benzo(a)pyrene	252	22.562	22.562	(0.994)	288028	20.0000	19.7
149 Indeno(1,2,3-cd)pyrene	276	24.880	24.880	(1.097)	376535	20.0000	19.5
150 Dibenz(a,h)anthracene	278	24.923	24.923	(1.098)	319493	20.0000	19.5
151 Benzo(g,h,i)perylene	276	25.441	25.441	(1.121)	322816	20.0000	19.5
\$ 154 Nitrobenzene-d5	82	5.600	5.600	(0.867)	129783	20.0000	20.2
\$ 155 2-Fluorobiphenyl	172	8.175	8.175	(0.865)	217898	20.0000	20.2
\$ 156 Terphenyl-d14	244	16.787	16.787	(0.868)	235187	20.0000	20.1
\$ 157 Phenol-d5	99	4.660	4.660	(0.941)	156862	20.0000	19.9
\$ 158 2-Fluorophenol	112	3.640	3.640	(0.735)	120745	20.0000	19.6
\$ 159 2,4,6-Tribromophenol	330	11.183	11.183	(0.878)	25694	20.0000	18.9
\$ 186 2-Chlorophenol-d4	132	4.756	4.756	(0.960)	119931	20.0000	19.8
\$ 187 1,2-Dichlorobenzene-d4	152	5.157	5.157	(1.041)	78910	20.0000	20.1

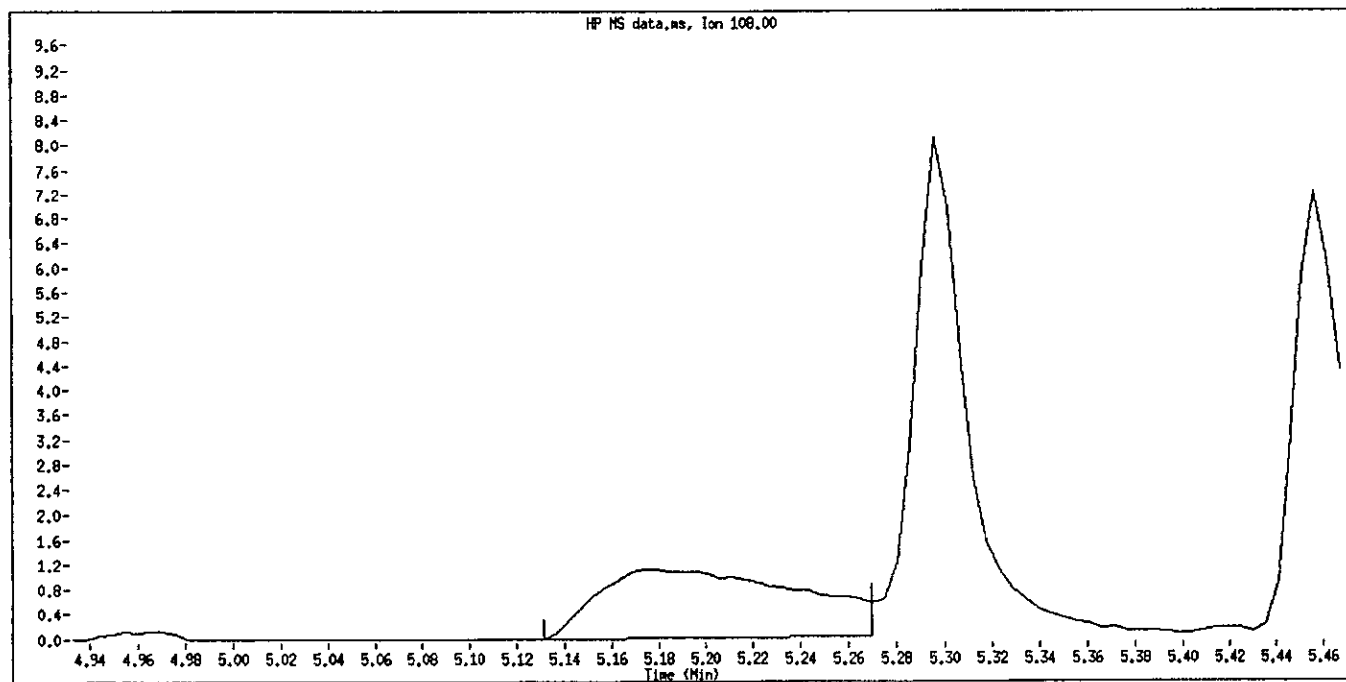
QC Flag Legend

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

679 243



Original Integration



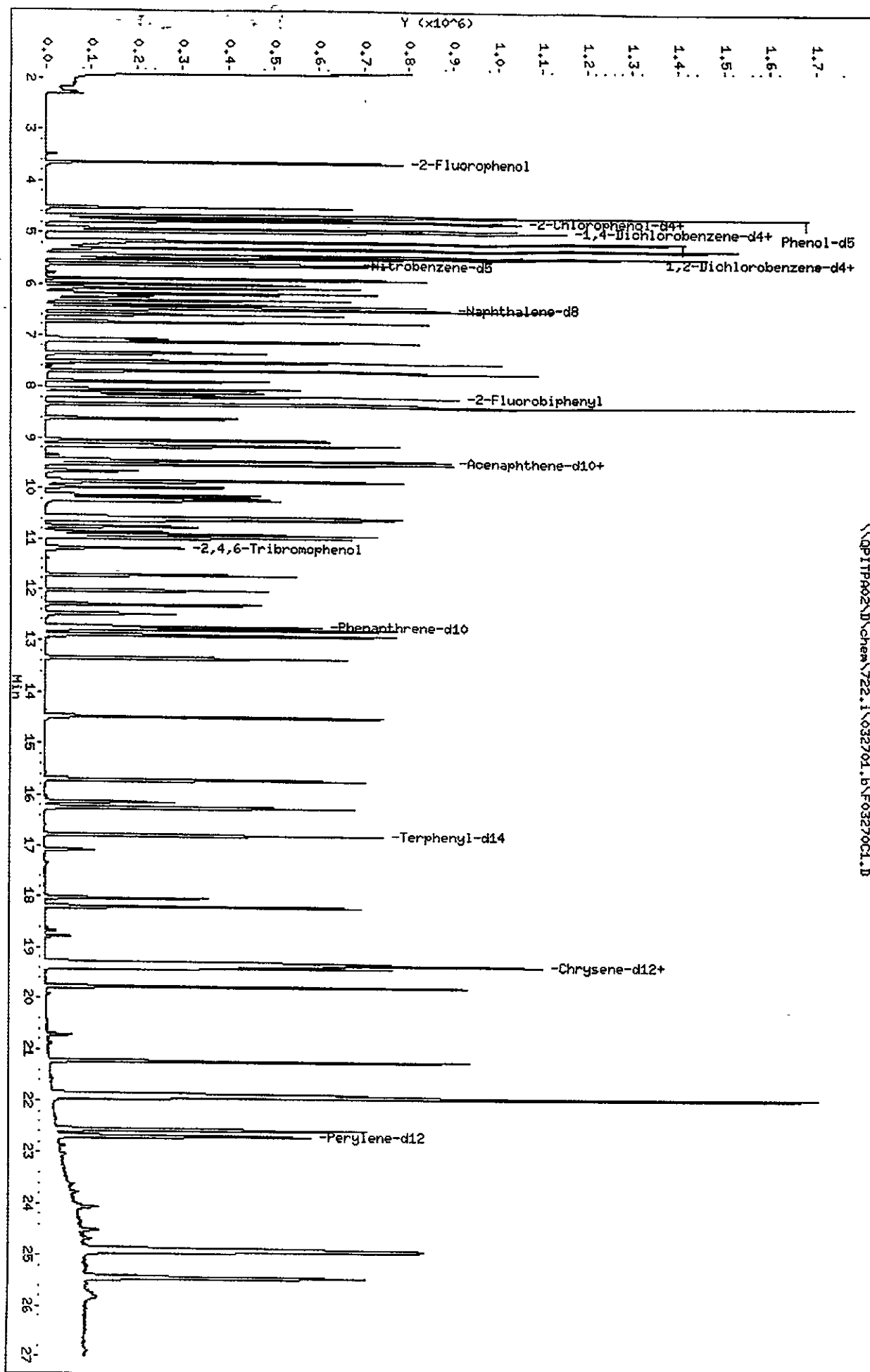
Manual Integration

Manually Integrated By bungardf

Manual Integration Reason: Peak Not Found

Data File: \\QP1TPA02\U\chem\722.1\032701.b\F03270C1.D
Date: 27-MAR-2001 12:05
Client ID:
Sample Info: SST0050 (25ppb) 77-15-13
Volume Injected (uL): 2.0
Column phase: HPS-MS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25



Data File: \\QPITPA02\d\chem\722.i\032701.b\F03270C2.D
Report Date: 27-Mar-2001 13:28

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032701.b\F03270C2.D
Lab Smp Id: sstd050 Client Smp ID: SSTD050
Inj Date : 27-MAR-2001 12:38
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD050 (25ppb) 77-15-13
Misc Info : sstd050,032701.b,8270b.m,2-root.sub,1,2
Comment :
Method : \\QPITPA02\D\chem\722.i\032701.b\8270b.m
Meth Date : 27-Mar-2001 13:28 bungardf Quant Type: ISTD
Cal Date : 27-MAR-2001 12:38 Cal File: F03270C2.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

46
3/27/01

Compounds	QUANT SIG	AMOUNTS					
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
*****	****	==	=====	=====	=====	=====	=====
* 1 1,4-Dichlorobenzene-d4	152	4.957	4.957	(1.000)	155505	40.0000	
* 2 Naphthalene-d8	136	6.464	6.464	(1.000)	575964	40.0000	
* 3 Acenaphthene-d10	164	9.455	9.455	(1.000)	301692	40.0000	
* 4 Phenanthrene-d10	188	12.735	12.735	(1.000)	517038	40.0000	
* 5 Chrysene-d12	240	19.344	19.344	(1.000)	566129	40.0000	
* 6 Perylene-d12	264	22.693	22.693	(1.000)	518388	40.0000	
10 N-Nitrosodimethylamine	74	1.902	1.902	(0.384)	149731	50.0000	50.0
9 Pyridine	79	1.902	1.902	(0.384)	246280	50.0000	50.0
16 Methyl methanesulfonate	80	3.483	3.483	(0.703)	13461	50.0000	50.0
21 Aniline	93	4.663	4.663	(0.941)	369176	50.0000	50.0(H)
22 Phenol	94	4.680	4.680	(0.944)	337509	50.0000	50.0(H)
23 bis(2-Chloroethyl) ether	93	4.733	4.733	(0.955)	259657	50.0000	50.0
24 2-Chlorophenol	128	4.781	4.781	(0.964)	252590	50.0000	50.0
26 1,3-Dichlorobenzene	146	4.915	4.915	(0.991)	286416	50.0000	50.0
27 1,4-Dichlorobenzene	146	4.973	4.973	(1.003)	294350	50.0000	50.0
28 1,2-Dichlorobenzene	146	5.176	5.176	(1.044)	270708	50.0000	50.0
29 Benzyl Alcohol	108	5.155	5.155	(1.040)	160556	50.0000	50.0(M)
30 2-Methylphenol	108	5.299	5.299	(1.069)	248737	50.0000	50.0
31 2,2'-oxybis(1-Chloropropane)	45	5.310	5.310	(1.071)	439500	50.0000	50.0
32 N-Nitroso-di-n-propylamine	70	5.465	5.465	(1.102)	192452	50.0000	50.0
192 4-Methylphenol	108	5.459	5.459	(1.101)	238475	50.0000	50.0
34 Hexachloroethane	117	5.513	5.513	(1.112)	113482	50.0000	50.0
35 Nitrobenzene	77	5.625	5.625	(0.870)	289385	50.0000	50.0
41 Isophorone	82	5.898	5.898	(0.912)	444825	50.0000	50.0
42 2-Nitrophenol	139	6.004	6.004	(0.929)	132712	50.0000	50.0
43 2,4-Dimethylphenol	107	6.074	6.074	(0.940)	243966	50.0000	50.0

679 251

AMOUNTS

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
44 bis(2-Chloroethoxy)methane	93	6.181	6.181	(0.956)	284287	50.0000	50.0
48 2,4-Dichlorophenol	162	6.314	6.314	(0.977)	191204	50.0000	50.0
49 Benzoic Acid	122	6.239	6.239	(0.965)	125135	50.0000	50.0
50 1,2,4-Trichlorobenzene	180	6.410	6.410	(0.992)	217300	50.0000	50.0
51 Naphthalene	128	6.490	6.490	(1.004)	705774	50.0000	50.0
52 4-Chloroaniline	127	6.597	6.597	(1.021)	269455	50.0000	50.0
56 Hexachlorobutadiene	225	6.736	6.736	(1.042)	133815	50.0000	50.0
59 4-Chloro-3-Methylphenol	107	7.345	7.345	(1.136)	200589	50.0000	50.0
62 2-Methylnaphthalene	142	7.511	7.511	(1.162)	457036	50.0000	50.0
205 1-Methylnaphthalene	142	7.692	7.692	(1.190)	478433	50.0000	50.0
64 Hexachlorocyclopentadiene	237	7.890	7.890	(0.834)	115115	50.0000	50.0
66 2,4,6-Trichlorophenol	196	8.050	8.050	(0.851)	129624	50.0000	50.0
67 2,4,5-Trichlorophenol	196	8.131	8.131	(0.860)	139950	50.0000	50.0
70 2-Chloronaphthalene	162	8.344	8.344	(0.882)	422293	50.0000	50.0
73 2-Nitroaniline	65	8.611	8.611	(0.911)	147446	50.0000	50.0
76 Dimethylphthalate	163	9.044	9.044	(0.956)	457901	50.0000	50.0
78 2,6-Dinitrotoluene	165	9.172	9.172	(0.970)	104763	50.0000	50.0
79 Acenaphthylene	152	9.140	9.140	(0.967)	618087	50.0000	50.0
81 3-Nitroaniline	138	9.439	9.439	(0.998)	118567	50.0000	50.0
82 Acenaphthene	153	9.519	9.519	(1.007)	404657	50.0000	50.0
83 2,4-Dinitrophenol	184	9.653	9.653	(1.021)	55827	50.0000	50.0
85 4-Nitrophenol	109	9.872	9.872	(1.044)	67396	50.0000	50.0
86 Dibenzofuran	168	9.851	9.851	(1.042)	578457	50.0000	50.0
87 2,4-Dinitrotoluene	165	9.979	9.979	(1.055)	139564	50.0000	50.0
91 2,3,5,6-Tetrachlorophenol	232	10.139	10.139	(1.072)	122471	50.0000	50.0
88 2,3,4,6-Tetrachlorophenol	232	10.235	10.235	(1.082)	119089	50.0000	50.0
92 2-Naphthylamine	143	10.198	10.198	(1.079)	341650	50.0000	50.0
93 Diethylphthalate	149	10.561	10.561	(1.117)	460027	50.0000	50.0
94 Fluorene	166	10.593	10.593	(1.120)	467540	50.0000	50.0
95 4-Chlorophenyl-phenylether	204	10.631	10.631	(1.124)	226772	50.0000	50.0
96 4-Nitroaniline	138	10.764	10.764	(1.138)	115548	50.0000	50.0
98 4,6-Dinitro-2-methylphenol	198	10.866	10.866	(0.853)	79714	50.0000	50.0
99 N-Nitrosodiphenylamine	169	10.924	10.924	(0.858)	361207	50.0000	50.0
100 1,2-Diphenylhydrazine	77	10.983	10.983	(0.862)	531151	50.0000	50.0
106 4-Bromophenyl-phenylether	248	11.731	11.731	(0.921)	124354	50.0000	50.0
107 Hexachlorobenzene	284	12.030	12.030	(0.945)	128291	50.0000	50.0
111 Pentachlorophenol	266	12.484	12.484	(0.980)	72533	50.0000	50.0
115 Phenanthrene	178	12.789	12.789	(1.004)	649643	50.0000	50.0
116 Anthracene	178	12.896	12.896	(1.013)	660736	50.0000	50.0
119 Carbazole	167	13.339	13.339	(1.047)	602301	50.0000	50.0
120 Di-n-Butylphthalate	149	14.477	14.477	(1.137)	739559	50.0000	50.0
123 Fluoranthene	202	15.711	15.711	(1.234)	689209	50.0000	50.0
124 Benzidine	184	16.144	16.144	(0.835)	262589	50.0000	50.0
125 Pyrene	202	16.251	16.251	(0.840)	701549	50.0000	50.0
131 Butylbenzylphthalate	149	18.195	18.195	(0.941)	333994	50.0000	50.0
135 3,3'-Dichlorobenzidine	252	19.354	19.354	(1.001)	295372	50.0000	50.0
136 Benzo(a)Anthracene	228	19.301	19.301	(0.998)	681123	50.0000	50.0

673 252

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)
-----	----	--	-----	-----	-----	-----	-----
137 Chrysene	228	19.402	19.402	(1.003)	648771	50.0000	50.0
139 bis(2-ethylhexyl)Phthalate	149	19.771	19.771	(1.022)	466356	50.0000	50.0
140 Di-n-octylphthalate	149	21.235	21.235	(0.936)	808449	50.0000	50.0
141 Benzo(b)fluoranthene	252	21.871	21.871	(0.964)	682235	50.0000	50.0
142 Benzo(k)fluoranthene	252	21.929	21.929	(0.966)	834981	50.0000	50.0
143 7,12-dimethylbenz[a]anthracen	256	21.929	21.929	(0.966)	408455	50.0000	50.0
146 Benzo(a)pyrene	252	22.565	22.565	(0.994)	676621	50.0000	50.0
149 Indeno(1,2,3-cd)pyrene	276	24.889	24.889	(1.097)	907143	50.0000	50.0
150 Dibenz(a,h)anthracene	278	24.932	24.932	(1.099)	766612	50.0000	50.0
151 Benzo(g,h,i)perylene	276	25.450	25.450	(1.121)	774659	50.0000	50.0
\$ 154 Nitrobenzene-d5	82	5.604	5.604	(0.867)	273164	50.0000	50.0
\$ 155 2-Fluorobiphenyl	172	8.179	8.179	(0.865)	464236	50.0000	50.0
\$ 156 Terphenyl-d14	244	16.785	16.785	(0.868)	542776	50.0000	50.0
\$ 157 Phenol-d5	99	4.669	4.669	(0.942)	337598	50.0000	50.0
\$ 158 2-Fluorophenol	112	3.648	3.648	(0.736)	267453	50.0000	50.0
\$ 159 2,4,6-Tribromophenol	330	11.181	11.181	(0.878)	63432	50.0000	50.0
\$ 186 2-Chlorophenol-d4	132	4.765	4.765	(0.961)	261592	50.0000	50.0
\$ 187 1,2-Dichlorobenzene-d4	152	5.160	5.160	(1.041)	166135	50.0000	50.0

QC Flag Legend

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

Data File Name: F03270C2.D

Inj. Date and Time 27-MAR-2001 12 38

Instrument ID 722 1

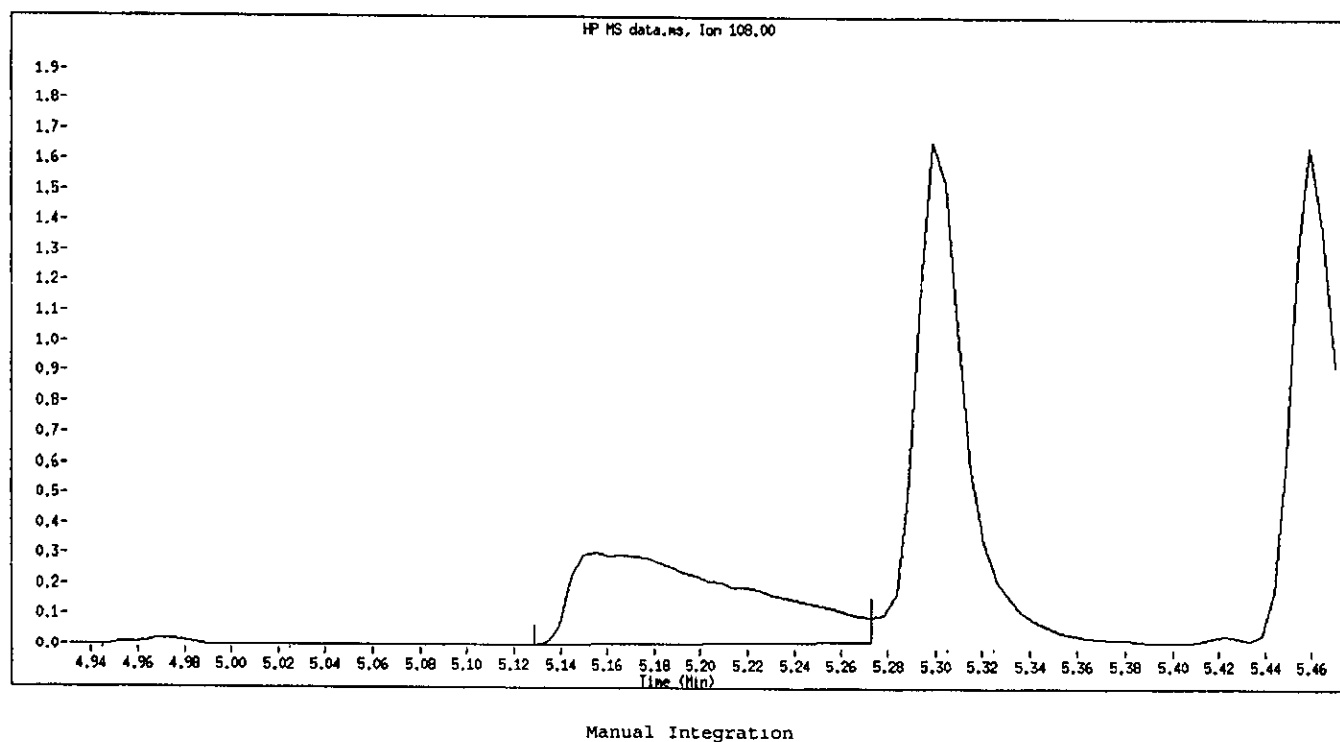
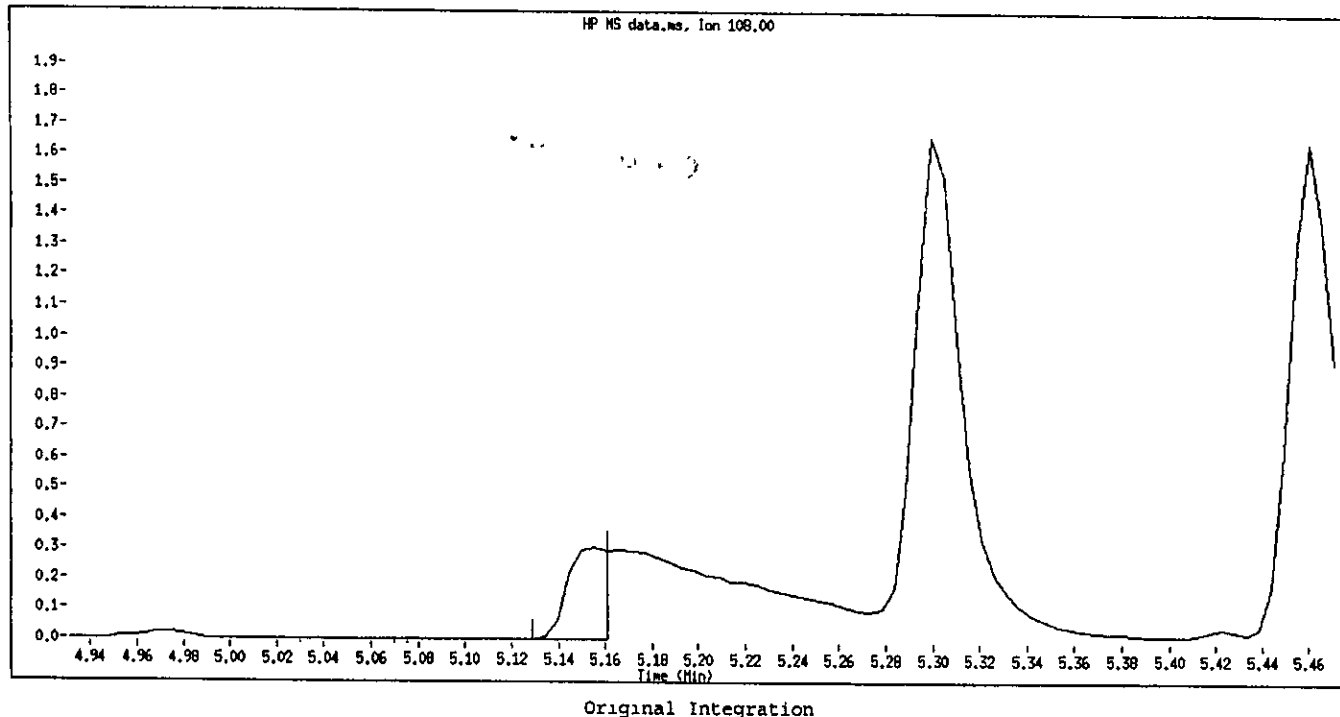
Client ID- SSTD050

Compound Name Benzyl Alcohol

CAS # 100-51-6

Report Date. 03/27/2001

679 253



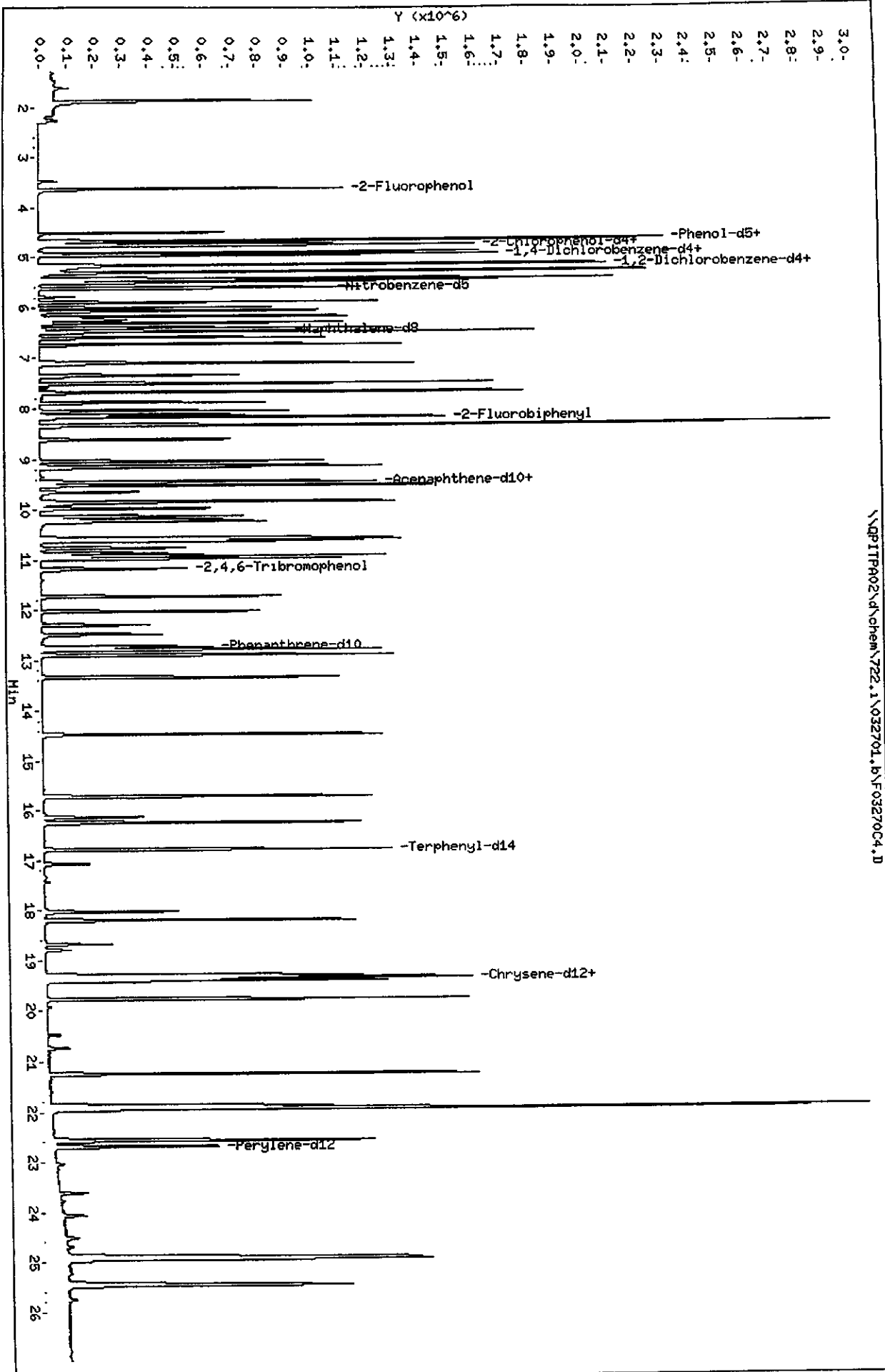
Manually Integrated By: bungardf

Manual Integration Reason Peak Not Found

Data File: \\QPITPA02\\d\\chem\\722.1\\032701.b\\03270C4.D
 Date: 27-MAR-2001 13:45
 Client ID: SST0080
 Sample Info: SST0080 (40ppb) 77-11-3

Column phase: Hp5-MS

Instrument: 722.i
 Operator: 007062
 Column diameter: 0.25



679 255

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032701.b\F03270C4.D
Lab Smp Id: sstd080 Client Smp ID: SST080
Inj Date : 27-MAR-2001 13:45
Operator : 007062 Inst ID: 722.i
Smp Info : SST080 (40ppb) 77-11-3
Misc Info : sstd080,032701.b,8270b.m,2-root.sub,1,3
Comment :
Method : \\QPITPA02\D\chem\722.i\032701.b\8270b.m
Meth Date : 27-Mar-2001 14:06 tapsvc Quant Type: ISTD
Cal Date : 27-MAR-2001 13:45 Cal File: F03270C4.D
Als bottle: 25 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC083

inv
3/27/01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	4.953	4.953	(1.000)	155232	40.0000	
* 2 Naphthalene-d8	136	6.465	6.465	(1.000)	572131	40.0000	
* 3 Acenaphthene-d10	164	9.451	9.451	(1.000)	303226	40.0000	
* 4 Phenanthrene-d10	188	12.731	12.731	(1.000)	527900	40.0000	
* 5 Chrysene-d12	240	19.339	19.339	(1.000)	598954	40.0000	
* 6 Perylene-d12	264	22.689	22.689	(1.000)	554849	40.0000	
10 N-Nitrosodimethylamine	74	1.897	1.897	(0.383)	230996	80.0000	77.9
9 Pyridine	79	1.887	1.887	(0.381)	369865	80.0000	77.0
16 Methyl methanesulfonate	80	3.473	3.473	(0.701)	37993	80.0000	91.5
21 Aniline	93	4.664	4.664	(0.942)	522622	80.0000	73.4
22 Phenol	94	4.681	4.681	(0.945)	513618	80.0000	76.9
23 bis(2-Chloroethyl)ether	93	4.734	4.734	(0.956)	398088	80.0000	77.4
24 2-Chlorophenol	128	4.777	4.777	(0.964)	388287	80.0000	77.6
26 1,3-Dichlorobenzene	146	4.916	4.916	(0.992)	441459	80.0000	78.0
27 1,4-Dichlorobenzene	146	4.969	4.969	(1.003)	451817	80.0000	77.6
28 1,2-Dichlorobenzene	146	5.172	5.172	(1.044)	415188	80.0000	77.4
29 Benzyl Alcohol	108	5.145	5.145	(1.039)	254243	80.0000	82.6
30 2-Methylphenol	108	5.300	5.300	(1.070)	387639	80.0000	77.4
31 2,2'-oxybis(1-Chloropropane)	45	5.306	5.306	(1.071)	660963	80.0000	76.2
32 N-Nitroso-di-n-propylamine	70	5.466	5.466	(1.104)	303378	80.0000	79.5
192 4-Methylphenol	108	5.460	5.460	(1.102)	369838	80.0000	78.1
34 Hexachloroethane	117	5.509	5.509	(1.112)	177579	80.0000	79.4
35 Nitrobenzene	77	5.626	5.626	(0.870)	454364	80.0000	79.1
41 Isophorone	82	5.899	5.899	(0.912)	699183	80.0000	79.4
42 2-Nitrophenol	139	6.005	6.005	(0.929)	210836	80.0000	80.6
43 2,4-Dimethylphenol	107	6.075	6.075	(0.940)	382728	80.0000	79.6

679 256

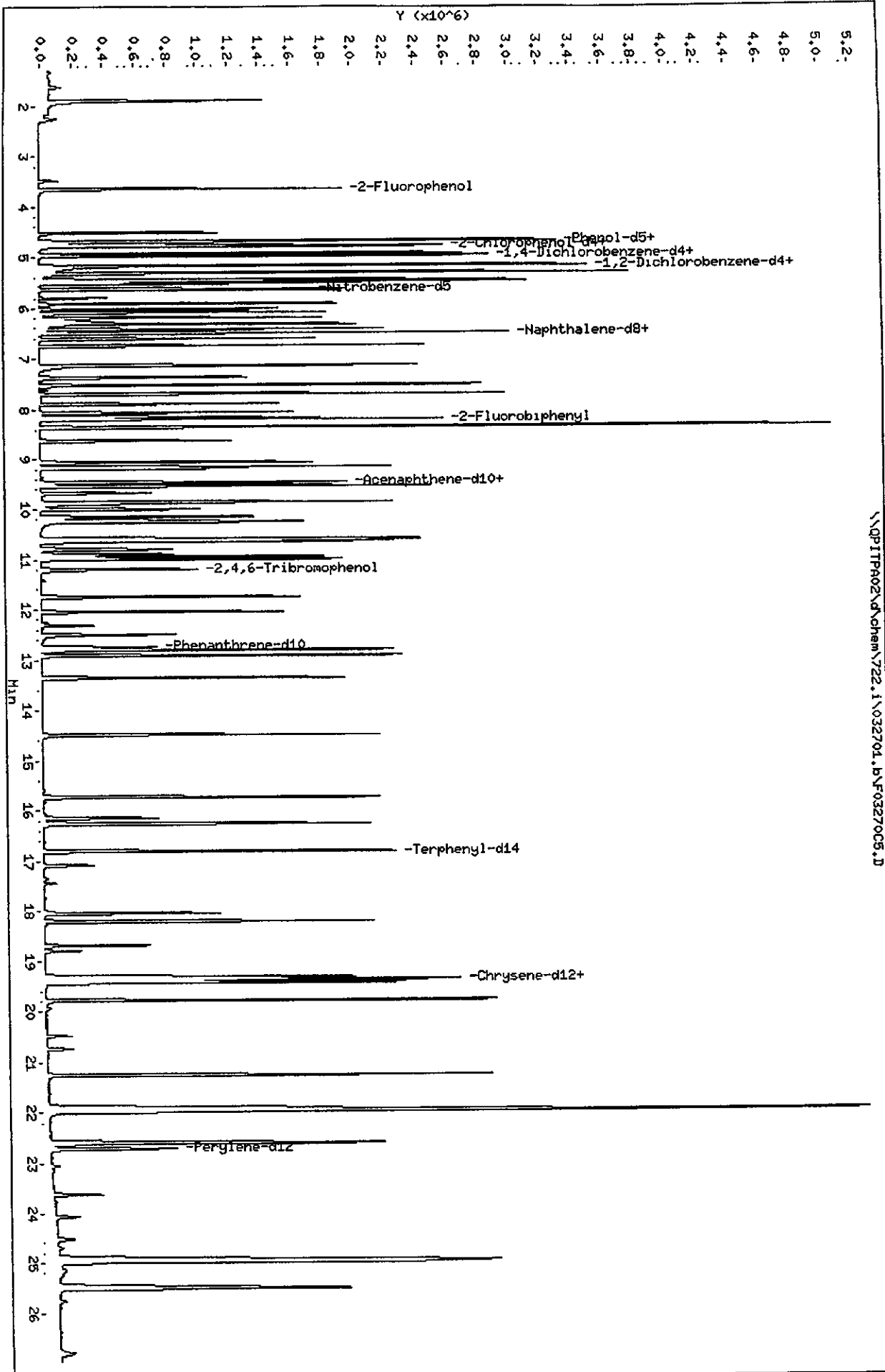
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
44 bis(2-Chloroethoxy)methane	93	6.182	6 182	(0.956)	444493	80.0000	79.2
48 2,4-Dichlorophenol	162	6.310	6 310	(0.976)	300177	80 0000	79.7
49 Benzoic Acid	122	6.256	6.256	(0.968)	201048	80.0000	88.6
50 1,2,4-Trichlorobenzene	180	6.411	6 411	(0.992)	342421	80 0000	79.9
51 Naphthalene	128	6.491	6 491	(1.004)	1092849	80.0000	78.2
52 4-Chloroaniline	127	6.598	6.598	(1.021)	415673	80.0000	78.6
56 Hexachlorobutadiene	225	6.737	6 737	(1.042)	215137	80.0000	80.9
59 4-Chloro-3-Methylphenol	107	7.346	7.346	(1.136)	317584	80 0000	80.7
62 2-Methylnaphthalene	142	7.512	7 512	(1.162)	726914	80.0000	79.9
205 1-Methylnaphthalene	142	7.688	7 688	(1.189)	747855	80.0000	80.2
64 Hexachlorocyclopentadiene	237	7.886	7.886	(0.834)	198692	80 0000	88.5
66 2,4,6-Trichlorophenol	196	8.051	8.051	(0.852)	206241	80.0000	80.3
67 2,4,5-Trichlorophenol	196	8.126	8.126	(0.860)	224787	80.0000	80.7
70 2-Chloronaphthalene	162	8.345	8 345	(0.883)	673802	80 0000	79.8
73 2-Nitroaniline	65	8.612	8 612	(0.911)	239964	80.0000	81.3
76 Dimethylphthalate	163	9.045	9.045	(0.957)	735866	80 0000	80.6
78 2,6-Dinitrotoluene	165	9.173	9 173	(0.971)	169881	80 0000	82.1
79 Acenaphthylene	152	9.141	9.141	(0.967)	987250	80 0000	79.9
81 3-Nitroaniline	138	9.440	9.440	(0.999)	192330	80.0000	82.0
82 Acenaphthene	153	9.520	9.520	(1.007)	644024	80 0000	79.8
83 2,4-Dinitrophenol	184	9.654	9 654	(1.021)	99789	80 0000	96.0
85 4-Nitrophenol	109	9.873	9 873	(1.045)	110877	80 0000	84.8
86 Dibenzofuran	168	9.852	9 852	(1.042)	919403	80.0000	79.5
87 2,4-Dinitrotoluene	165	9.985	9 985	(1.057)	227631	80.0000	82.5
91 2,3,5,6-Tetrachlorophenol	232	10.140	10.140	(1.073)	196247	80 0000	83.0
88 2,3,4,6-Tetrachlorophenol	232	10.236	10.236	(1.083)	191399	80 0000	81.2
92 2-Naphthylamine	143	10.199	10 199	(1.079)	450926	80.0000	69.3
93 Diethylphthalate	149	10.568	10 568	(1.118)	746185	80.0000	81.8
94 Fluorene	166	10.594	10 594	(1.121)	754728	80.0000	80.8
95 4-Chlorophenyl-phenylether	204	10.632	10.632	(1.125)	365519	80.0000	80.8
96 4-Nitroaniline	138	10.771	10 771	(1.140)	188341	80 0000	82.4
98 4,6-Dinitro-2-methylphenol	198	10.867	10.867	(0.854)	139137	80 0000	88.5
99 N-Nitrosodiphenylamine	169	10.931	10 931	(0.859)	605627	80.0000	83.6
100 1,2-Diphenylhydrazine	77	10.984	10 984	(0.863)	849251	80.0000	78.9
106 4-Bromophenyl-phenylether	248	11.732	11 732	(0.922)	202815	80 0000	80.3
107 Hexachlorobenzene	284	12.031	12 031	(0.945)	206832	80.0000	80.0
111 Pentachlorophenol	266	12.485	12 485	(0.981)	109173	80.0000	84.7
115 Phenanthrene	178	12.790	12.790	(1.005)	1044118	80.0000	79.3
116 Anthracene	178	12.897	12 897	(1.013)	1073464	80 0000	80.1
119 Carbazole	167	13.340	13 340	(1.048)	975705	80 0000	80.2
120 Di-n-Butylphthalate	149	14.473	14.473	(1.137)	1206639	80.0000	81.4
123 Fluoranthene	202	15.712	15.712	(1.234)	1126990	80 0000	81.3
124 Benzidine	184	16.139	16 139	(0.835)	332676	80 0000	68.8
125 Pyrene	202	16.252	16 252	(0.840)	1138412	80 0000	77.4
131 Butylbenzylphthalate	149	18.196	18 196	(0.941)	548086	80 0000	78.7
135 3,3'-Dichlorobenzidine	252	19.355	19 355	(1.001)	484073	80.0000	79.8
136 Benzo(a)Anthracene	228	19.302	19 302	(0.998)	1130772	80.0000	78.7

679 257

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----	-----
137 Chrysene	228	19.403	19.403	(1.003)	1064464	80.0000	78.2	
139 bis(2-ethylhexyl)Phthalate	149	19.767	19.767	(1.022)	771684	80.0000	79.4	
140 Di-n-octylphthalate	149	21.236	21.236	(0.936)	1331368	80.0000	79.0	
141 Benzo(b)fluoranthene	252	21.877	21.877	(0.964)	1240087	80.0000	82.9	
142 Benzo(k)fluoranthene	252	21.941	21.941	(0.967)	1372405	80.0000	80.1	
143 7,12-dimethylbenz[a]anthracen	256	21.941	21.941	(0.967)	708877	80.0000	85.2	
146 Benzo(a)pyrene	252	22.571	22.571	(0.995)	1153347	80.0000	80.5	
149 Indeno(1,2,3-cd)pyrene	276	24.900	24.900	(1.097)	1615099	80.0000	83.5	
150 Dibenzo(a,h)anthracene	278	24.943	24.943	(1.099)	1374408	80.0000	83.8	
151 Benzo(g,h,i)perylene	276	25.461	25.461	(1.122)	1378491	80.0000	83.4	
\$ 154 Nitrobenzene-d5	82	5.605	5.605	(0.867)	432587	80.0000	79.4	
\$ 155 2-Fluorobiphenyl	172	8.180	8.180	(0.865)	739866	80.0000	79.0	
\$ 156 Terphenyl-d14	244	16.786	16.786	(0.868)	901877	80.0000	78.7	
\$ 157 Phenol-d5	99	4.670	4.670	(0.943)	505520	80.0000	76.8	
\$ 158 2-Fluorophenol	112	3.644	3.644	(0.736)	403213	80.0000	77.9	
\$ 159 2,4,6-Tribromophenol	330	11.182	11.182	(0.878)	100319	80.0000	81.0	
\$ 186 2-Chlorophenol-d4	132	4.761	4.761	(0.961)	395752	80.0000	77.7	
\$ 187 1,2-Dichlorobenzene-d4	152	5.161	5.161	(1.042)	256841	80.0000	77.9	

Data File: \\QPI\PA02\chem\722.1\032701.b\F0327005.D
Date: 27-MAR-2001 14:18
Client ID: SST120
Sample Info: SST120 (60ppb) 77-11-4
Column phase: Hp5-MS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25



679 259

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032701.b\F03270C5.D
Lab Smp Id: sstd120 Client Smp ID: SSTD120
Inj Date : 27-MAR-2001 14:18
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD120 (60ppb) 77-11-4
Misc Info : sstd120,032701.b,8270b.m,2-root.sub,1,4
Comment :
Method : \\QPITPA02\D\chem\722.i\032701.b\8270b.m
Meth Date : 27-Mar-2001 14:46 tapsvc Quant Type: ISTD
Cal Date : 27-MAR-2001 14:18 Cal File: F03270C5.D
Als bottle: 26 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

und
3/27/01

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	4.960	4.960	(1.000)	180123	40.0000	
* 2 Naphthalene-d8	136	6.472	6.472	(1.000)	669784	40.0000	
* 3 Acenaphthene-d10	164	9.463	9.463	(1.000)	360733	40.0000	
* 4 Phenanthrene-d10	188	12.743	12.743	(1.000)	628576	40.0000	
* 5 Chrysene-d12	240	19.357	19.357	(1.000)	777804	40.0000	
* 6 Perylene-d12	264	22.706	22.706	(1.000)	723703	40.0000	
10 N-Nitrosodimethylamine	74	1.910	1.910	(0.385)	390862	120.000	115
9 Pyridine	79	1.899	1.899	(0.383)	622607	120.000	114
16 Methyl methanesulfonate	80	3.480	3.480	(0.702)	64350	120.000	130
21 Aniline	93	4.671	4.671	(0.942)	849870	120.000	107
22 Phenol	94	4.693	4.693	(0.946)	855828	120.000	113
23 bis(2-Chloroethyl)ether	93	4.741	4.741	(0.956)	673081	120.000	114
24 2-Chlorophenol	128	4.789	4.789	(0.966)	651486	120.000	114
26 1,3-Dichlorobenzene	146	4.922	4.922	(0.992)	737624	120.000	114
27 1,4-Dichlorobenzene	146	4.976	4.976	(1.003)	757421	120.000	114
28 1,2-Dichlorobenzene	146	5.179	5.179	(1.044)	696155	120.000	114
29 Benzyl Alcohol	108	5.152	5.152	(1.039)	452508	120.000	125
30 2-Methylphenol	108	5.312	5.312	(1.071)	647601	120.000	114
31 2,2'-oxybis(1-Chloropropane)	45	5.312	5.312	(1.071)	1041448	120.000	107
32 N-Nitroso-di-n-propylamine	70	5.478	5.478	(1.104)	521785	120.000	118
192 4-Methylphenol	108	5.467	5.467	(1.102)	629005	120.000	116
34 Hexachloroethane	117	5.515	5.515	(1.112)	307506	120.000	119
35 Nitrobenzene	77	5.638	5.638	(0.871)	775176	120.000	116
41 Isophorone	82	5.911	5.911	(0.913)	1200407	120.000	117
42 2-Nitrophenol	139	6.012	6.012	(0.929)	365544	120.000	120
43 2,4-Dimethylphenol	107	6.082	6.082	(0.940)	670126	120.000	119

679 260

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)
44 bis(2-Chloroethoxy)methane	93	6.189	6.189	(0.956)	763883	120.000	117
48 2,4-Dichlorophenol	162	6.322	6.322	(0.977)	522612	120.000	119
49 Benzoic Acid	122	6.301	6.301	(0.974)	367019	120.000	133
50 1,2,4-Trichlorobenzene	180	6.418	6.418	(0.992)	591463	120.000	118
51 Naphthalene	128	6.498	6.498	(1.004)	1827990	120.000	114
52 4-Chloroaniline	127	6.605	6.605	(1.021)	709340	120.000	116
56 Hexachlorobutadiene	225	6.744	6.744	(1.042)	385920	120.000	123
59 4-Chloro-3-Methylphenol	107	7.359	7.359	(1.137)	562100	120.000	122
62 2-Methylnaphthalene	142	7.519	7.519	(1.162)	1252884	120.000	118
205 1-Methylnaphthalene	142	7.700	7.700	(1.190)	1296265	120.000	119
64 Hexachlorocyclopentadiene	237	7.898	7.898	(0.835)	385156	120.000	137
66 2,4,6-Trichlorophenol	196	8.058	8.058	(0.852)	368191	120.000	120
67 2,4,5-Trichlorophenol	196	8.138	8.138	(0.860)	406931	120.000	122
70 2-Chloronaphthalene	162	8.357	8.357	(0.883)	1165915	120.000	117
73 2-Nitroaniline	65	8.625	8.625	(0.911)	428565	120.000	122
76 Dimethylphthalate	163	9.063	9.063	(0.958)	1292658	120.000	119
78 2,6-Dinitrotoluene	165	9.186	9.186	(0.971)	303864	120.000	122
79 Acenaphthylene	152	9.153	9.153	(0.967)	1717110	120.000	118
81 3-Nitroaniline	138	9.458	9.458	(0.999)	346994	120.000	123
82 Acenaphthene	153	9.527	9.527	(1.007)	1136230	120.000	119
83 2,4-Dinitrophenol	184	9.672	9.672	(1.022)	191842	120.000	145
85 4-Nitrophenol	109	9.891	9.891	(1.045)	204446	120.000	128
86 Dibenzofuran	168	9.864	9.864	(1.042)	1607868	120.000	118
87 2,4-Dinitrotoluene	165	10.003	10.003	(1.057)	407097	120.000	123
91 2,3,5,6-Tetrachlorophenol	232	10.152	10.152	(1.073)	362158	120.000	126
88 2,3,4,6-Tetrachlorophenol	232	10.249	10.249	(1.083)	373667	120.000	130
92 2-Naphthylamine	143	10.217	10.217	(1.080)	785091	120.000	105
93 Diethylphthalate	149	10.580	10.580	(1.118)	1340261	120.000	123
94 Fluorene	166	10.612	10.612	(1.121)	1356207	120.000	122
95 4-Chlorophenyl-phenylether	204	10.644	10.644	(1.125)	658056	120.000	122
96 4-Nitroaniline	138	10.799	10.799	(1.141)	335993	120.000	123
98 4,6-Dinitro-2-methylphenol	198	10.895	10.895	(0.855)	259250	120.000	133
99 N-Nitrosodiphenylamine	169	10.948	10.948	(0.859)	883567	120.000	106
100 1,2-Diphenylhydrazine	77	10.997	10.997	(0.863)	1489380	120.000	117
106 4-Bromophenyl-phenylether	248	11.744	11.744	(0.922)	371066	120.000	122
107 Hexachlorobenzene	284	12.044	12.044	(0.945)	374942	120.000	121
111 Pentachlorophenol	266	12.498	12.498	(0.981)	216625	120.000	135
115 Phenanthrene	178	12.802	12.802	(1.005)	1847780	120.000	118
116 Anthracene	178	12.909	12.909	(1.013)	1908962	120.000	120
119 Carbazole	167	13.358	13.358	(1.048)	1742694	120.000	120
120 Di-n-Butylphthalate	149	14.490	14.490	(1.137)	2148582	120.000	121
123 Fluoranthene	202	15.730	15.730	(1.234)	2031398	120.000	122
124 Benzidine	184	16.152	16.152	(0.834)	647611	120.000	107
125 Pyrene	202	16.269	16.269	(0.840)	2055575	120.000	110
131 Butylbenzylphthalate	149	18.208	18.208	(0.941)	998582	120.000	113
135 3,3'-Dichlorobenzidine	252	19.373	19.373	(1.001)	976704	120.000	123
136 Benzo(a)Anthracene	228	19.320	19.320	(0.998)	2090144	120.000	114

679 261

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
137 Chrysene	228	19.426	19.426	(1.004)	1983565	120 000	114
139 bis(2-ethylhexyl)Phthalate	149	19.779	19.779	(1.022)	1422935	120 000	114
140 Di-n-octylphthalate	149	21.253	21.253	(0.936)	2464216	120 000	114
141 Benzo(b)fluoranthene	252	21.916	21.916	(0.965)	2537943	120.000	127 (M)
142 Benzo(k)fluoranthene	252	21.975	21.975	(0.968)	2753027	120 000	122
143 7,12-dimethylbenz[a]anthracen	256	21.969	21.969	(0.968)	1520362	120.000	134
146 Benzo(a)pyrene	252	22.600	22.600	(0.995)	2279520	120 000	121
149 Indeno(1,2,3-cd)pyrene	276	24.934	24.934	(1.098)	3376020	120.000	130
150 Dibenzo(a,h)anthracene	278	24.977	24.977	(1.100)	2910557	120.000	132
151 Benzo(g,h,i)perylene	276	25.506	25.506	(1.123)	2744685	120.000	125
\$ 154 Nitrobenzene-d5	82	5.612	5.612	(0.867)	747836	120 000	118
\$ 155 2-Fluorobiphenyl	172	8.192	8.192	(0.866)	1292335	120 000	117
\$ 156 Terphenyl-d14	244	16.803	16.803	(0.868)	1651788	120 000	113
\$ 157 Phenol-d5	99	4.682	4.682	(0.944)	839565	120 000	112
\$ 158 2-Fluorophenol	112	3.646	3.646	(0.735)	673746	120 000	114
\$ 159 2,4,6-Tribromophenol	330	11.200	11.200	(0.879)	186101	120 000	125
\$ 186 2-Chlorophenol-d4	132	4.768	4.768	(0.961)	665597	120.000	114
\$ 187 1,2-Dichlorobenzene-d4	152	5.163	5.163	(1.041)	434841	120 000	115

QC Flag Legend

M - Compound response manually integrated.

Data File Name: F03270C5.D

Inj Date and Time 27-MAR-2001 14 18

Instrument ID: 722.i

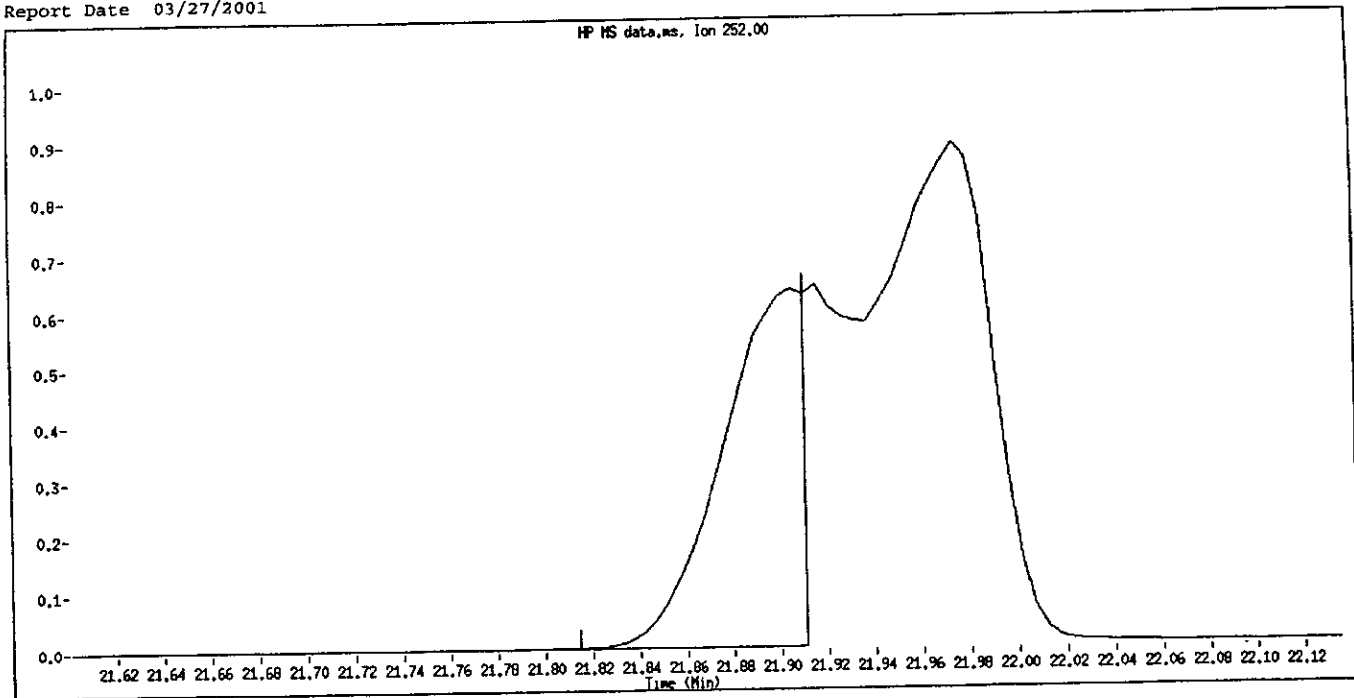
Client ID SSTD120

Compound Name: Benzo(b)fluoranthene

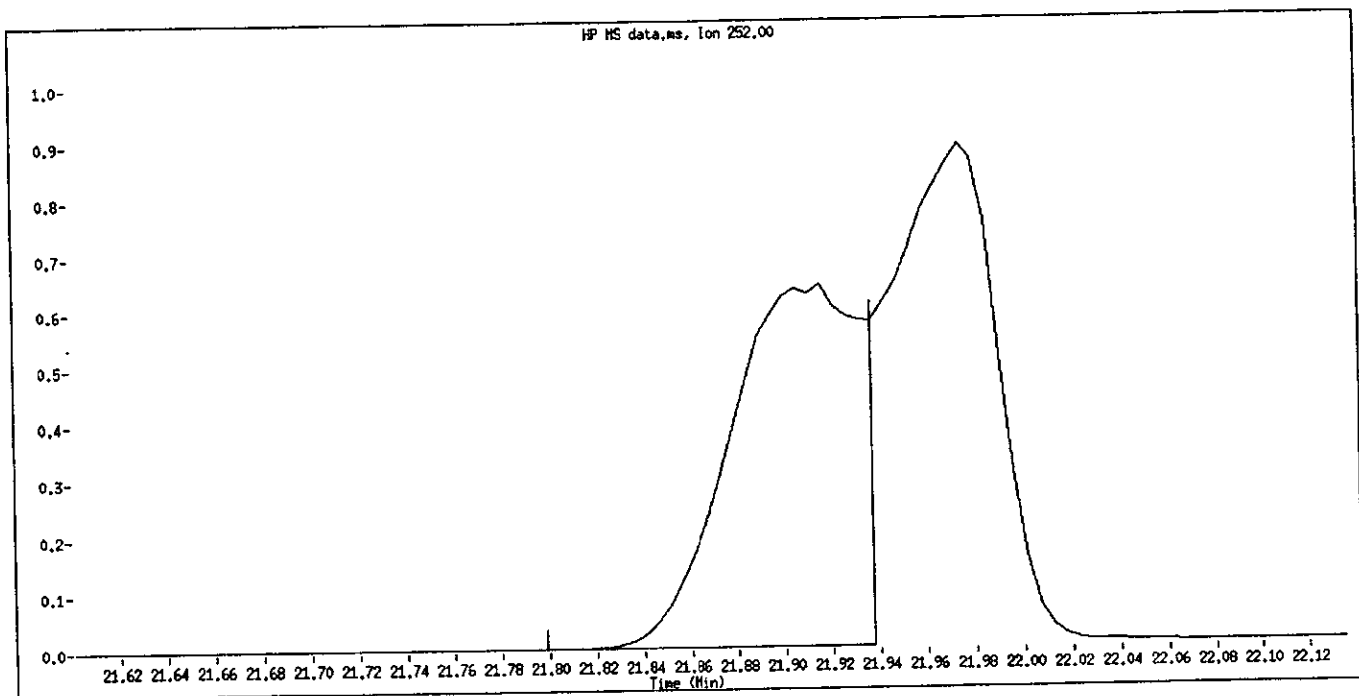
CAS #: 205-99-2

Report Date 03/27/2001

679 262



Original Integration



Manual Integration

Manually Integrated By: bungardf *mb* 3/27/01
Manual Integration Reason Poor Chromatography

Data File: \\QPITPA02\chem\722.1\032701.b\F0327006.D

Date: 27-MAR-2004 14:51

Client ID: SSTDL60

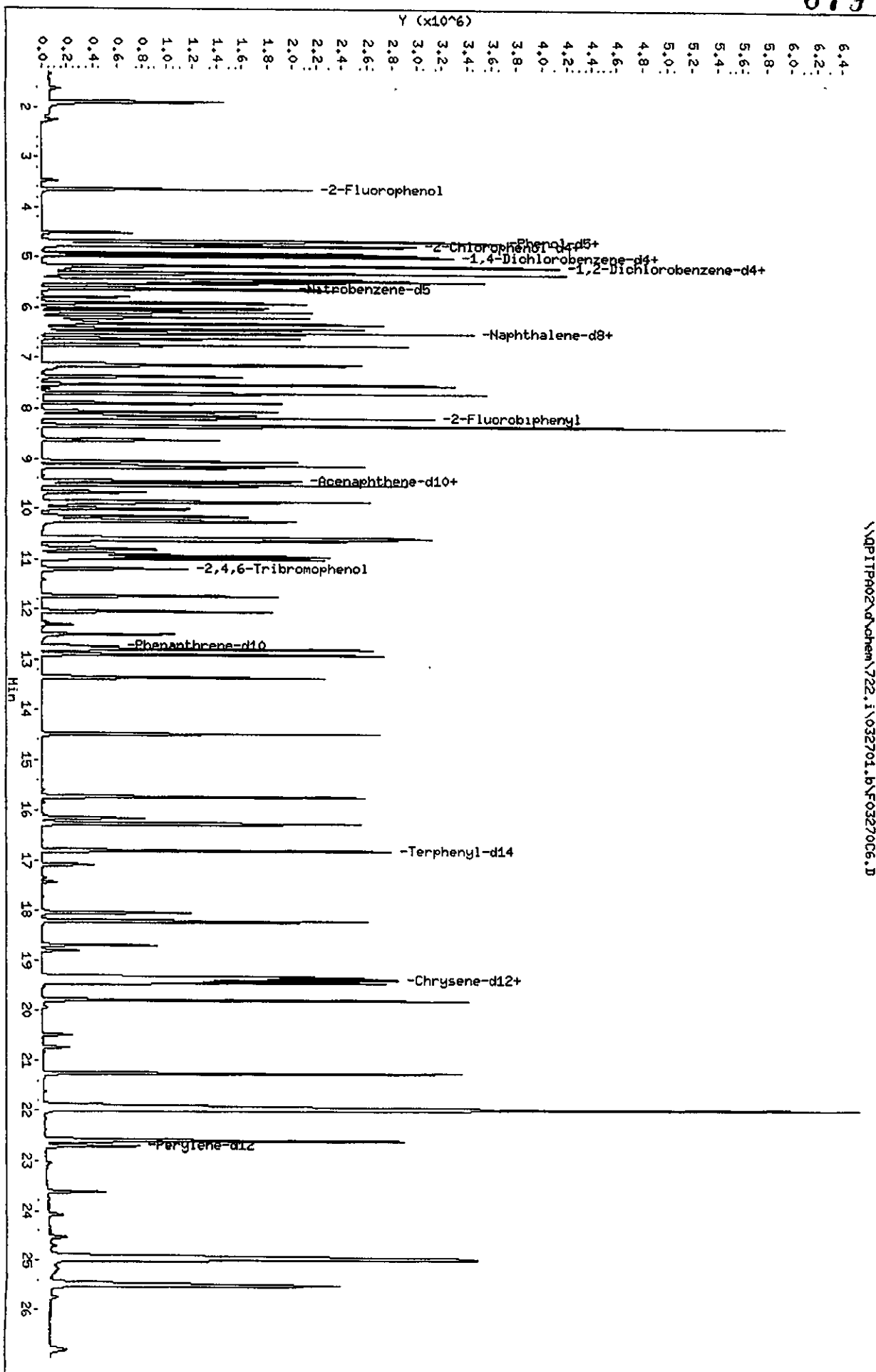
Sample Info: SSTDL60 (80ppb) 77-11-5

Column phase: Hp5-MS

Instrument: 722.1

Operator: 007062

Column diameter: 0.25



673 264

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032701.b\F03270C6.D
Lab Smp Id: sstd160 Client Smp ID: SSTD160
Inj Date : 27-MAR-2001 14:51
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD160 (80ppb) 77-11-5
Misc Info : sstd160,032701.b,8270b.m,2-root.sub,1,5
Comment :
Method : \\QPITPA02\d\chem\722.i\032701.b\8270b.m
Meth Date : 27-Mar-2001 15:11 tapsvc Quant Type: ISTD
Cal Date : 27-MAR-2001 14:51 Cal File: F03270C6.D
Als bottle: 27 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC083

wf
3/22/01

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	4.958	4.958	(1.000)	160370	40.0000	
* 2 Naphthalene-d8	136	6.476	6.476	(1.000)	592034	40.0000	
* 3 Acenaphthene-d10	164	9.462	9.462	(1.000)	321438	40.0000	
* 4 Phenanthrene-d10	188	12.747	12.747	(1.000)	551830	40.0000	
* 5 Chrysene-d12	240	19.361	19.361	(1.000)	713128	40.0000	
* 6 Perylene-d12	264	22.710	22.710	(1.000)	662464	40.0000	
10 N-Nitrosodimethylamine	74	1.908	1.908	(0.385)	456120	160.000	153
9 Pyridine	79	1.892	1.892	(0.382)	739529	160.000	153
16 Methyl methanesulfonate	80	3.479	3.479	(0.702)	75890	160.000	170(A)
21 Aniline	93	4.670	4.670	(0.942)	980256	160.000	142
22 Phenol	94	4.697	4.697	(0.947)	996386	160.000	150
23 bis(2-Chloroethyl)ether	93	4.745	4.745	(0.957)	789080	160.000	153
24 2-Chlorophenol	128	4.787	4.787	(0.966)	750904	160.000	150
26 1,3-Dichlorobenzene	146	4.921	4.921	(0.992)	856807	160.000	151
27 1,4-Dichlorobenzene	146	4.980	4.980	(1.004)	872418	160.000	150
28 1,2-Dichlorobenzene	146	5.183	5.183	(1.045)	817556	160.000	152
29 Benzyl Alcohol	108	5.156	5.156	(1.040)	539897	160.000	166(A)
30 2-Methylphenol	108	5.311	5.311	(1.071)	752379	160.000	150
31 2,2'-oxybis(1-Chloropropane)	45	5.316	5.316	(1.072)	1178794	160.000	140
32 N-Nitroso-di-n-propylamine	70	5.482	5.482	(1.106)	621920	160.000	159
192 4-Methylphenol	108	5.471	5.471	(1.103)	734343	160.000	153
34 Hexachloroethane	117	5.514	5.514	(1.112)	358747	160.000	156
35 Nitrobenzene	77	5.637	5.637	(0.870)	913985	160.000	156
41 Isophorone	82	5.915	5.915	(0.913)	1397149	160.000	156
42 2-Nitrophenol	139	6.016	6.016	(0.929)	430730	160.000	159
43 2,4-Dimethylphenol	107	6.086	6.086	(0.940)	787941	160.000	159

679 265

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
44 bis(2-Chloroethoxy)methane	93	6.192	6.192	(0.956)	896576	160.000	156
48 2,4-Dichlorophenol	162	6.326	6.326	(0.977)	613089	160.000	158
49 Benzoic Acid	122	6.315	6.315	(0.975)	453832	160.000	180 (A)
50 1,2,4-Trichlorobenzene	180	6.417	6.417	(0.991)	702354	160.000	159
51 Naphthalene	128	6.502	6.502	(1.004)	2114858	160.000	151
52 4-Chloroaniline	127	6.609	6.609	(1.021)	826268	160.000	154
56 Hexachlorobutadiene	225	6.743	6.743	(1.041)	458704	160.000	164 (A)
59 4-Chloro-3-Methylphenol	107	7.362	7.362	(1.137)	670655	160.000	163 (A)
62 2-Methylnaphthalene	142	7.523	7.523	(1.162)	1468641	160.000	157
205 1-Methylnaphthalene	142	7.699	7.699	(1.189)	1534269	160.000	160
64 Hexachlorocyclopentadiene	237	7.897	7.897	(0.835)	469280	160.000	181 (A)
66 2,4,6-Trichlorophenol	196	8.062	8.062	(0.852)	439157	160.000	161 (A)
67 2,4,5-Trichlorophenol	196	8.142	8.142	(0.861)	490326	160.000	164 (A)
70 2-Chloronaphthalene	162	8.356	8.356	(0.883)	1384352	160.000	157
73 2-Nitroaniline	65	8.628	8.628	(0.912)	509453	160.000	162 (A)
76 Dimethylphthalate	163	9.067	9.067	(0.958)	1541797	160.000	160
78 2,6-Dinitrotoluene	165	9.189	9.189	(0.971)	361612	160.000	163 (A)
79 Acenaphthylene	152	9.157	9.157	(0.968)	2023416	160.000	156
81 3-Nitroaniline	138	9.462	9.462	(1.000)	409916	160.000	163 (A)
82 Acenaphthene	153	9.531	9.531	(1.007)	1349755	160.000	159
83 2,4-Dinitrophenol	184	9.676	9.676	(1.023)	231513	160.000	187 (A)
85 4-Nitrophenol	109	9.900	9.900	(1.046)	247498	160.000	171 (A)
86 Dibenzofuran	168	9.868	9.868	(1.043)	1902403	160.000	157
87 2,4-Dinitrotoluene	165	10.007	10.007	(1.058)	483464	160.000	163 (A)
91 2,3,5,6-Tetrachlorophenol	232	10.156	10.156	(1.073)	441144	160.000	170 (A)
88 2,3,4,6-Tetrachlorophenol	232	10.252	10.252	(1.084)	449839	160.000	172 (A)
92 2-Naphthylamine	143	10.220	10.220	(1.080)	845409	160.000	133
93 Diethylphthalate	149	10.584	10.584	(1.119)	1602259	160.000	164 (A)
94 Fluorene	166	10.610	10.610	(1.121)	1612931	160.000	162 (A)
95 4-Chlorophenyl-phenylether	204	10.648	10.648	(1.125)	790560	160.000	163 (A)
96 4-Nitroaniline	138	10.808	10.808	(1.142)	398463	160.000	162 (A)
98 4,6-Dinitro-2-methylphenol	198	10.904	10.904	(0.855)	310703	160.000	177 (A)
99 N-Nitrosodiphenylamine	169	10.952	10.952	(0.859)	1103118	160.000	153
100 1,2-Diphenylhydrazine	77	11.000	11.000	(0.863)	1767529	160.000	159
106 4-Bromophenyl-phenylether	248	11.748	11.748	(0.922)	443571	160.000	165 (A)
107 Hexachlorobenzene	284	12.047	12.047	(0.945)	449876	160.000	164 (A)
111 Pentachlorophenol	266	12.502	12.502	(0.981)	269436	160.000	184 (A)
115 Phenanthrene	178	12.806	12.806	(1.005)	2180308	160.000	159
116 Anthracene	178	12.918	12.918	(1.013)	2265980	160.000	161 (A)
119 Carbazole	167	13.362	13.362	(1.048)	2064336	160.000	162 (A)
120 Di-n-Butylphthalate	149	14.489	14.489	(1.137)	2554350	160.000	163 (A)
123 Fluoranthene	202	15.733	15.733	(1.234)	2420723	160.000	165 (A)
124 Benzidine	184	16.156	16.156	(0.834)	745696	160.000	139
125 Pyrene	202	16.273	16.273	(0.841)	2453929	160.000	147
131 Butylbenzylphthalate	149	18.212	18.212	(0.941)	1208951	160.000	151
135 3,3'-Dichlorobenzidine	252	19.382	19.382	(1.001)	1201876	160.000	164 (A)
136 Benzo(a)Anthracene	228	19.323	19.323	(0.998)	2563518	160.000	154

679 266

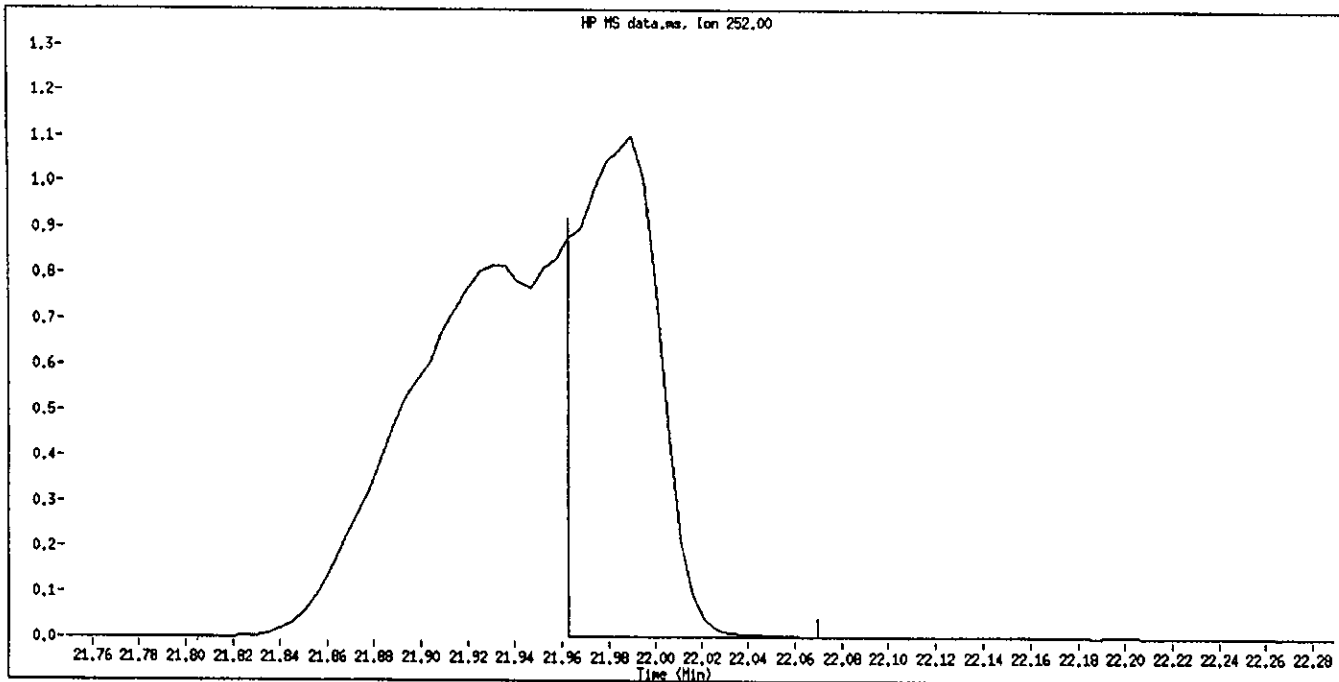
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
137 Chrysene	228	19.436	19.436	(1.004)	2434213	160.000	154
139 bis(2-ethylhexyl)Phthalate	149	19.788	19.788	(1.022)	1723792	160.000	153
140 Di-n-octylphthalate	149	21.257	21.257	(0.936)	2988731	160.000	153
141 Benzo(b)fluoranthene	252	21.930	21.930	(0.966)	3163813	160.000	171(A)
142 Benzo(k)fluoranthene	252	21.989	21.989	(0.968)	3537851	160.000	169(AM)
143 7,12-dimethylbenz[a]anthracen	256	21.978	21.978	(0.968)	1978210	160.000	184(A)
146 Benzo(a)pyrene	252	22.603	22.603	(0.995)	2850513	160.000	165(A)
149 Indeno(1,2,3-cd)pyrene	276	24.938	24.938	(1.098)	4232620	160.000	174(AM)
150 Dibenz(a,h)anthracene	278	24.991	24.991	(1.100)	3679893	160.000	177(A)
151 Benzo(g,h,i)perylene	276	25.520	25.520	(1.124)	3408480	160.000	168(A)
\$ 154 Nitrobenzene-d5	82	5.615	5.615	(0.867)	882415	160.000	158
\$ 155 2-Fluorobiphenyl	172	8.190	8.190	(0.866)	1518204	160.000	155
\$ 156 Terphenyl-d14	244	16.802	16.802	(0.868)	1991806	160.000	151
\$ 157 Phenol-d5	99	4.681	4.681	(0.944)	985867	160.000	150
\$ 158 2-Fluorophenol	112	3.650	3.650	(0.736)	789269	160.000	152
\$ 159 2,4,6-Tribromophenol	330	11.203	11.203	(0.879)	228248	160.000	171(A)
\$ 186 2-Chlorophenol-d4	132	4.771	4.771	(0.962)	781839	160.000	153
\$ 187 1,2-Dichlorobenzene-d4	152	5.167	5.167	(1.042)	512393	160.000	154

QC Flag Legend

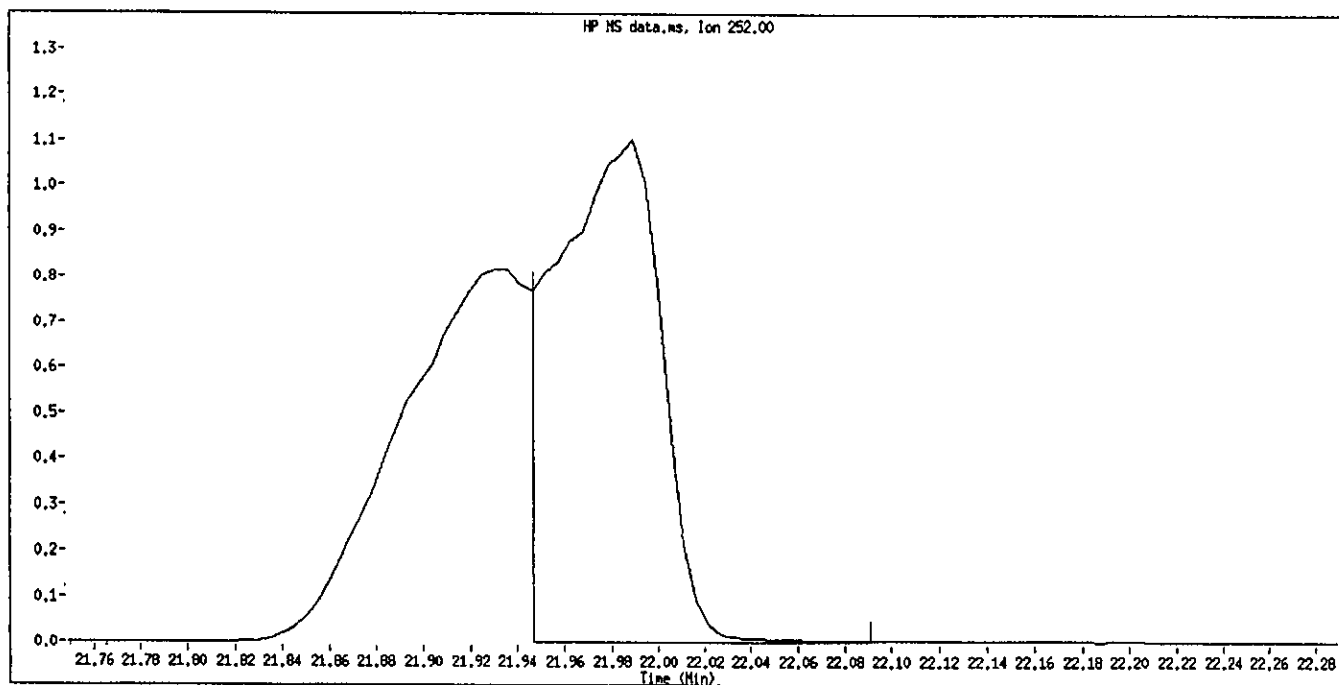
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File Name: F03270C6.D
Inj Date and Time: 27-MAR-2001 14:51
Instrument ID: 722.1
Client ID: SSTD160
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/27/2001

679 267



Original Integration



Manual Integration

Manually Integrated By: bungardf / *[signature]* 3/27/01
Manual Integration Reason: Poor Chromatography

Data File Name: F03270C6.D

Inj Date and Time: 27-MAR-2001 14:51

Instrument ID 722 i

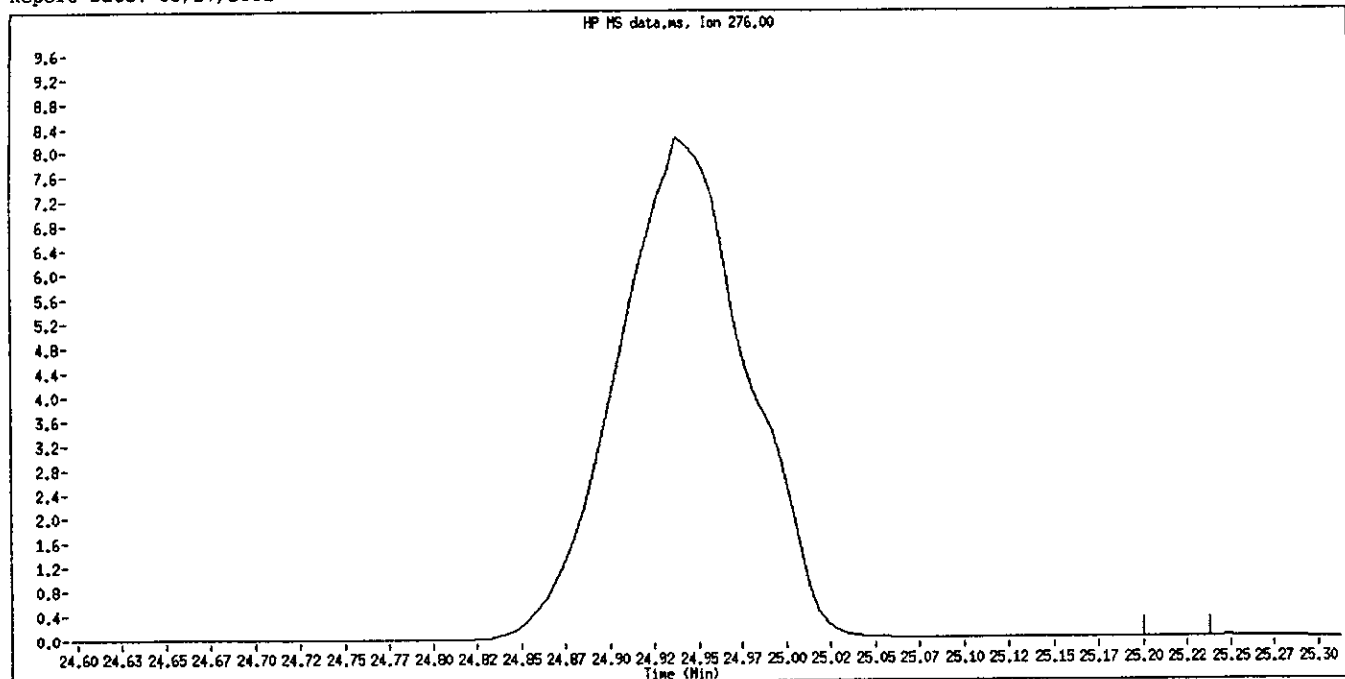
Client ID. SSTDL60

Compound Name: Indeno(1,2,3-cd)pyrene

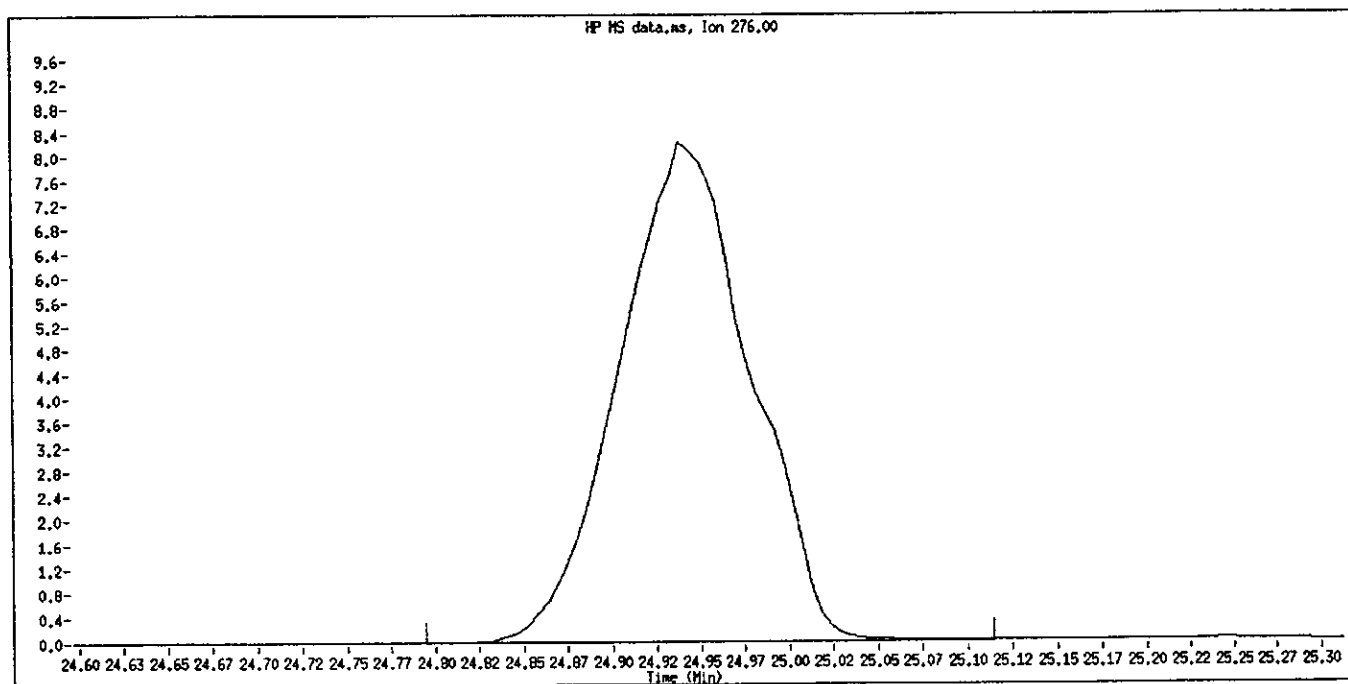
CAS #: 193-39-5

Report Date: 03/27/2001

679 268



Original Integration



Manual Integration

Manually Integrated By

bungardf / w 3/27/01

Manual Integration Reason Peak Not Found

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

679 269

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 0271084

Instrument ID: 722

Calibration Date: 03/26/01 Time: 0920

Lab File ID: F03260C2

Init. Calib. Date(s): 02/26/01 02/26/01

Init. Calib. Times: 1104 1328

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.734	1.765	0.01	1.8	20.0
bis(2-Chloroethyl) ether	1.345	1.354	0.01	0.7	50.0
2-Chlorophenol	1.274	1.329	0.01	4.3	50.0
1,3-Dichlorobenzene	1.428	1.482	0.01	3.8	50.0
1,4-Dichlorobenzene	1.453	1.519	0.01	4.5	20.0
1,2-Dichlorobenzene	1.344	1.402	0.01	4.3	50.0
2-Methylphenol	1.188	1.682	0.01	41.6	50.0
2,2'-oxybis(1-Chloropropane)	2.366	2.286	0.01	3.4	50.0
4-Methylphenol	1.262	1.319	0.01	4.5	50.0
Hexachloroethane	0.573	0.584	0.01	1.9	50.0
Nitrobenzene	0.404	0.397	0.01	1.7	50.0
Isophorone	0.644	0.630	0.01	2.2	50.0
2-Nitrophenol	0.181	0.187	0.01	3.3	20.0
2,4-Dimethylphenol	0.341	0.338	0.01	0.9	50.0
bis(2-Chloroethoxy) methane	0.401	0.399	0.01	0.5	50.0
N-Nitroso-di-n-propylamine	1.080	1.035	0.05	4.2	50.0
2,4-Dichlorophenol	0.265	0.272	0.01	2.6	20.0
1,2,4-Trichlorobenzene	0.297	0.302	0.01	1.7	50.0
Naphthalene	0.947	0.984	0.01	3.9	50.0
4-Chloroaniline	0.381	0.383	0.01	0.5	50.0
Hexachlorobutadiene	0.192	0.187	0.01	2.6	20.0
4-Chloro-3-Methylphenol	0.304	0.288	0.01	5.3	20.0
2-Methylnaphthalene	0.639	0.654	0.01	2.3	50.0
Hexachlorocyclopentadiene	0.359	0.314	0.05	12.5	50.0
2,4,6-Trichlorophenol	0.349	0.334	0.01	4.3	20.0
2,4,5-Trichlorophenol	0.371	0.381	0.01	2.7	50.0
2-Chloronaphthalene	1.036	1.105	0.01	6.7	50.0
2-Nitroaniline	0.408	0.390	0.01	4.4	50.0
Dimethylphthalate	1.233	1.227	0.01	0.5	50.0
Acenaphthylene	1.597	1.634	0.01	2.3	50.0
2,6-Dinitrotoluene	0.284	0.282	0.01	0.7	50.0
3-Nitroaniline	0.324	0.321	0.01	0.9	50.0
Acenaphthene	1.053	1.074	0.01	2.0	20.0
2,4-Dinitrophenol	0.147	0.156	0.05	6.1	50.0
4-Nitrophenol	0.200	0.181	0.05	9.5	50.0
Dibenzofuran	1.517	1.536	0.01	1.2	50.0
2,4-Dinitrotoluene	0.392	0.380	0.01	3.1	50.0

673 270

FORM 7

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C10210181

Instrument ID: 722

Calibration Date: 03/26/01 Time: 0920

Lab File ID: F03260C2

Init. Calib. Date(s): 02/26/01 02/26/01

Init. Calib. Times: 1104 1328

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.262	1.227	0.01	2.8	50.0
4-Chlorophenyl-phenylether	0.622	0.608	0.01	2.2	50.0
Fluorene	1.256	1.262	0.01	0.5	50.0
4-Nitroaniline	0.334	0.315	0.01	5.7	50.0
4,6-Dinitro-2-methylphenol	0.112	0.126	0.01	12.5	50.0
N-Nitrosodiphenylamine	0.493	0.551	0.01	11.8	20.0
4-Bromophenyl-phenylether	0.192	0.194	0.01	1.0	50.0
Hexachlorobenzene	0.199	0.197	0.01	1.0	50.0
Pentachlorophenol	0.138	0.117	0.05	15.2	20.0
Phenanthrene	0.971	0.994	0.01	2.4	50.0
Anthracene	0.993	1.018	0.01	2.5	50.0
Carbazole	0.925	0.937	0.01	1.3	50.0
Di-n-Butylphthalate	1.111	1.143	0.01	2.9	50.0
Fluoranthene	1.084	1.088	0.01	0.4	20.0
Pyrene	0.982	0.966	0.01	1.6	50.0
Butylbenzylphthalate	0.457	0.453	0.01	0.9	50.0
3,3'-Dichlorobenzidine	0.402	0.426	0.01	6.0	50.0
Benzo(a)Anthracene	0.976	0.964	0.01	1.2	50.0
Chrysene	0.920	0.894	0.01	2.8	50.0
bis(2-ethylhexyl)Phthalate	0.641	0.639	0.01	0.3	50.0
Di-n-octylphthalate	1.027	1.212	0.01	18.0	20.0
Benzo(b)fluoranthene	1.041	1.046	0.01	0.5	50.0
Benzo(k)fluoranthene	1.069	1.298	0.01	21.4	50.0
Benzo(a)pyrene	1.009	1.041	0.01	3.2	20.0
Indeno(1,2,3-cd)pyrene	1.551	1.356	0.01	12.6	50.0
Dibenz(a,h)anthracene	1.273	1.157	0.01	9.1	50.0
Benzo(g,h,i)perylene	1.386	1.158	0.01	16.4	50.0
Pyridine	1.254	1.283	0.01	2.3	50.0
N-Nitrosodimethylamine	0.778	0.789	0.01	1.4	50.0
Aniline	1.896	1.912	0.01	0.8	50.0
Benzyl Alcohol	1.002	0.433	0.01	56.8	50.0
Benzoic Acid	0.161	0.218	0.01	35.4	50.0
2,3,4,6-Tetrachlorophenol	0.367	0.310	0.01	15.5	50.0
2,3,5,6-Tetrachlorophenol	0.381	0.340	0.01	10.8	50.0
1,2-Diphenylhydrazine	0.749	0.782	0.01	4.4	50.0
Benzidine	0.334	0.296	0.01	11.4	50.0
Methyl methanesulfonate	0.128	0.069	0.01	46.1	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

673 271

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

C1021084

Instrument ID: 722

Calibration Date: 03/26/01

Time: 0920

Lab File ID: F03260C2

Init. Calib. Date(s): 02/26/01

02/26/01

Init. Calib. Times: 1104

1328

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
2-Naphthylamine	0.963	0.879	0.01	8.7	50.0
7,12-dimethylbenz[a]anthrace	0.533	0.647	0.01	21.4	50.0
1-Methylnaphthalene	0.667	0.688	0.01	3.1	50.0
Nitrobenzene-d5	0.383	0.377	0.01	1.6	50.0
2-Fluorobiphenyl	1.169	1.220	0.01	4.4	50.0
Terphenyl-d14	0.780	0.760	0.01	2.6	50.0
Phenol-d5	1.720	1.776	0.01	3.2	50.0
2-Fluorophenol	1.302	1.368	0.01	5.1	50.0
2,4,6-Tribromophenol	0.103	0.099	0.01	3.9	50.0
2-Chlorophenol-d4	1.292	1.364	0.01	5.6	50.0
1,2-Dichlorobenzene-d4	0.833	0.855	0.01	2.6	50.0

679 272

Data File: \\QPITPA02\d\chem\722.i\032601.b\F03260C2.D
 Report Date: '03/26/2001

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: 722.i
 Lab File ID: F03260C2.D
 Analysis Type: NONE

Injection Date: 26-MAR-2001 09:20
 Lab Sample ID: sstd050
 Method File: \\QPITPA02\D\chem\722.i\032601.b\

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
67 N-Nitrosodimethylamine	50.0000	50.7399	1.5	50.0
66 Pyridine	50.0000	51.1610	2.3	50.0
87 Methyl methanesulfonate	50.0000	27.1059	45.8	50.0
185 2-Fluorophenol	50.0000	52.5226	5.0	50.0
68 Aniline	50.0000	50.4052	0.8	50.0
184 Phenol-d5	50.0000	51.6281	3.3	50.0
1 Phenol	50.0000	50.9007	1.8	20.0
2 bis(2-Chloroethyl)ether	50.0000	50.3282	0.7	50.0
187 2-Chlorophenol-d4	50.0000	52.7946	5.6	50.0
3 2-Chlorophenol	50.0000	52.1399	4.3	50.0
4 1,3-Dichlorobenzene	50.0000	51.8935	3.8	50.0
11 1,4-Dichlorobenzene-d4	40.0000	40.0000	0.0	50.0
5 1,4-Dichlorobenzene	50.0000	52.2716	4.5	20.0
188 1,2-Dichlorobenzene-d4	50.0000	51.3270	2.7	50.0
6 1,2-Dichlorobenzene	50.0000	52.1384	4.3	50.0
69 Benzyl Alcohol	50.0000	21.6128	56.8	50.0
7 2-Methylphenol	50.0000	70.8466	41.7	50.0
8 2,2'-oxybis(1-Chloropropane)	50.0000	48.3081	3.4	50.0
9 4-Methylphenol	50.0000	52.2619	4.5	50.0
18 N-Nitroso-di-n-propylamine	50.0000	47.9108	4.2	50.0
12 Hexachloroethane	50.0000	50.9419	1.9	50.0
181 Nitrobenzene-d5	50.0000	49.2340	1.5	50.0
13 Nitrobenzene	50.0000	49.1198	1.8	50.0
14 Isophorone	50.0000	48.9235	2.2	50.0
15 2-Nitrophenol	50.0000	51.5568	3.1	20.0
16 2,4-Dimethylphenol	50.0000	49.5873	0.8	50.0
17 bis(2-Chloroethoxy)methane	50.0000	49.7949	0.4	50.0
71 Benzoic Acid	50.0000	67.7162	35.4	50.0
18 2,4-Dichlorophenol	50.0000	51.3627	2.7	20.0
19 1,2,4-Trichlorobenzene	50.0000	50.8614	1.7	50.0
32 Naphthalene-d8	40.0000	40.0000	0.0	50.0
20 Naphthalene	50.0000	51.9370	3.9	50.0
21 4-Chloroaniline	50.0000	50.1857	0.4	50.0
22 Hexachlorobutadiene	50.0000	48.6779	2.6	20.0
23 4-Chloro-3-Methylphenol	50.0000	47.3289	5.3	20.0
24 2-Methylnaphthalene	50.0000	51.1927	2.4	50.0
205 1-Methylnaphthalene	50.0000	51.5454	3.1	50.0
25 Hexachlorocyclopentadiene	50.0000	43.6380	12.7	50.0
26 2,4,6-Trichlorophenol	50.0000	47.9647	4.1	20.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: 722.i
 Lab File ID: F03260C2.D
 Analysis Type: NONE

Injection Date: 26-MAR-2001 09:20
 Lab Sample ID: sstd050
 Method File: \\QPITPA02\D\chem\722.i\032601.b\

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
27 2,4,5-Trichlorophenol	50.0000	51.3770	2.8	50.0
182 2-Fluorobiphenyl	50.0000	52.1831	4.4	50.0
28 2-Chloronaphthalene	50.0000	53.3424	6.7	50.0
29 2-Nitroaniline	50.0000	47.7874	4.4	50.0
30 Dimethylphthalate	50.0000	49.7655	0.5	50.0
31 Acenaphthylene	50.0000	51.1250	2.2	50.0
32 2,6-Dinitrotoluene	50.0000	49.8320	0.3	50.0
33 3-Nitroaniline	50.0000	49.5858	0.8	50.0
52 Acenaphthene-d10	40.0000	40.0000	0.0	50.0
34 Acenaphthene	50.0000	50.9851	2.0	20.0
35 2,4-Dinitrophenol	50.0000	53.2280	6.5	50.0
37 Dibenzofuran	50.0000	50.6002	1.2	50.0
36 4-Nitrophenol	50.0000	45.1424	9.7	50.0
38 2,4-Dinitrotoluene	50.0000	48.4198	3.2	50.0
77 2,3,5,6-Tetrachlorophenol	50.0000	44.6688	10.7	50.0
114 2-Naphthylamine	50.0000	45.6598	8.7	50.0
76 2,3,4,6-Tetrachlorophenol	50.0000	42.2683	15.5	50.0
39 Diethylphthalate	50.0000	48.6040	2.8	50.0
41 Fluorene	50.0000	50.2151	0.4	50.0
40 4-Chlorophenyl-phenylether	50.0000	48.9160	2.2	50.0
42 4-Nitroaniline	50.0000	47.2471	5.5	50.0
43 4,6-Dinitro-2-methylphenol	50.0000	56.1207	12.2	50.0
44 N-Nitrosodiphenylamine	50.0000	55.8353	11.7	20.0
78 1,2-Diphenylhydrazine	50.0000	52.2085	4.4	50.0
186 2,4,6-Tribromophenol	50.0000	47.8789	4.2	50.0
45 4-Bromophenyl-phenylether	50.0000	50.4523	0.9	50.0
46 Hexachlorobenzene	50.0000	49.3759	1.2	50.0
47 Pentachlorophenol	50.0000	42.5956	14.8	20.0
78 Phenanthrene-d10	40.0000	40.0000	0.0	50.0
48 Phenanthrene	50.0000	51.1721	2.3	50.0
49 Anthracene	50.0000	51.2807	2.6	50.0
50 Carbazole	50.0000	50.6574	1.3	50.0
51 Di-n-Butylphthalate	50.0000	51.4324	2.9	50.0
52 Fluoranthene	50.0000	50.1680	0.3	20.0
79 Benzidine	50.0000	44.2486	11.5	50.0
53 Pyrene	50.0000	49.1429	1.7	50.0
183 Terphenyl-d14	50.0000	48.6720	2.7	50.0
54 Butylbenzylphthalate	50.0000	49.6370	0.7	50.0
56 Benzo(a)Anthracene	50.0000	49.3673	1.3	50.0

Data File: \\QPITPA02\d\chem\722.i\032601.b\F03260C2.D
Report Date: 03/26/2001

679 274

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 722.i
Lab File ID: F03260C2.D
Analysis Type: NONE

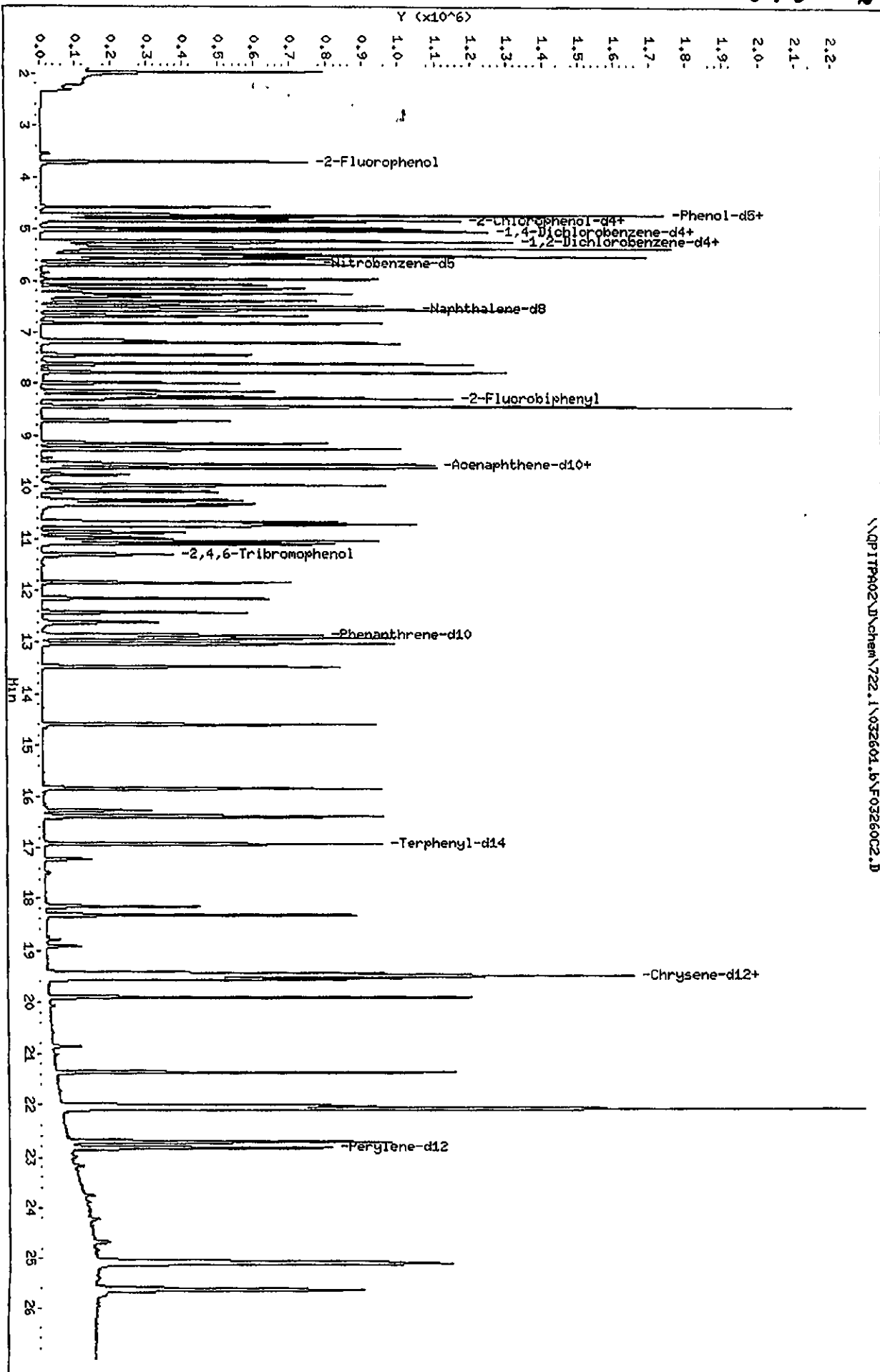
Injection Date: 26-MAR-2001 09:20
Lab Sample ID: sstd050
Method File: \\QPITPA02\D\chem\722.i\032601.b\

COMPOUND	EXPECTED	MEASURED	%D	MAX %D
	CONC.	CONC.		
90 Chrysene-d12	40.0000	40.0000	0.0	50.0
55 3,3'-Dichlorobenzidine	50.0000	53.0550	6.1	50.0
57 Chrysene	50.0000	48.5870	2.8	50.0
58 bis(2-ethylhexyl)Phthalate	50.0000	49.8042	0.4	50.0
59 Di-n-octylphthalate	50.0000	58.9610	17.9	20.0
60 Benzo(b)fluoranthene	50.0000	50.2639	0.5	50.0
61 Benzo(k)fluoranthene	50.0000	60.7182	21.4	50.0
143 7,12-dimethylbenz(a)anthracen	50.0000	60.6551	21.3	50.0
62 Benzo(a)pyrene	50.0000	51.5786	3.2	20.0
101 Perylene-d12	40.0000	40.0000	0.0	50.0
63 Indeno(1,2,3-cd)pyrene	50.0000	43.7237	12.6	50.0
64 Dibenzo(a,h)anthracene	50.0000	45.4352	9.1	50.0
65 Benzo(g,h,i)perylene	50.0000	41.7642	16.5	50.0

Data File: \\QPIITPA02\N\chem\722.i\032601.b\F03260C2.D
 Date: 26-Mar-2001 09:20
 Client ID:
 Sample Info: SST050 (25ppb) 77-45-13
 Volume Injected (uL): 2.0
 Column Phase: Hp5-MS

Instrument: 722.i
 Operator: 007062
 Column diameter: 0.25

\\QPIITPA02\N\chem\722.i\032601.b\F03260C2.D



679 276

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032601.b\F03260C2.D
Lab Smp Id: sstd050 Client Smp ID: SSTD050
Inj Date : 26-MAR-2001 09:20 Inst ID: 722.i
Operator : 007062
Smp Info : SSTD050 (25ppb) 77-15-13
Misc Info : sstd050,032601.b,8270b.m,2-root.sub,2,2
Comment :
Method : \\QPITPA02\D\chem\722.i\032601.b\8270b.m
Meth Date : 26-Mar-2001 09:54 bungardf Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000 Compound Sublist: 2-root.sub
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC062

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.018	5.018	(1.000)	173497	40.0000	
* 2 Naphthalene-d8	136	6.546	6.546	(1.000)	669622	40.0000	
* 3 Acenaphthene-d10	164	9.559	9.559	(1.000)	370538	40.0000	
* 4 Phenanthrene-d10	188	12.855	12.855	(1.000)	660452	40.0000	
* 5 Chrysene-d12	240	19.484	19.484	(1.000)	752422	40.0000	
* 6 Perylene-d12	264	22.834	22.834	(1.000)	686864	40.0000	
10 N-Nitrosodimethylamine	74	1.957	1.957	(0.390)	171212	50.0000	50.7
9 Pyridine	79	1.957	1.957	(0.390)	278242	50.0000	51.2
16 Methyl methanesulfonate	80	3.538	3.538	(0.705)	15051	50.0000	27.1
21 Aniline	93	4.724	4.724	(0.941)	414588	50.0000	50.4
22 Phenol	94	4.740	4.740	(0.945)	382885	50.0000	50.9
23 bis(2-Chloroethyl)ether	93	4.788	4.788	(0.954)	293650	50.0000	50.3
24 2-Chlorophenol	128	4.842	4.842	(0.965)	288251	50.0000	52.1
26 1,3-Dichlorobenzene	146	4.980	4.980	(0.993)	321462	50.0000	51.9
27 1,4-Dichlorobenzene	146	5.034	5.034	(1.003)	329502	50.0000	52.3
28 1,2-Dichlorobenzene	146	5.242	5.242	(1.045)	304038	50.0000	52.1
29 Benzyl Alcohol	108	5.322	5.322	(1.061)	93969	50.0000	21.6
30 2-Methylphenol	108	5.370	5.370	(1.070)	364868	50.0000	70.8
31 2,2'-oxybis(1-Chloropropane)	45	5.376	5.376	(1.071)	495771	50.0000	48.3
32 N-Nitroso-di-n-propylamine	70	5.531	5.531	(1.102)	224385	50.0000	47.9
192 4-Methylphenol	108	5.531	5.531	(1.102)	286029	50.0000	52.3
34 Hexachloroethane	117	5.579	5.579	(1.112)	126589	50.0000	50.9
35 Nitrobenzene	77	5.696	5.696	(0.870)	332438	50.0000	49.1
41 Isophorone	82	5.969	5.969	(0.912)	527783	50.0000	48.9
42 2-Nitrophenol	139	6.081	6.081	(0.929)	156530	50.0000	51.6
43 2,4-Dimethylphenol	107	6.156	6.156	(0.940)	282862	50.0000	49.6

679 277

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
44 bis(2-Chloroethoxy)methane	93	6.257	6.257	(0.956)	333943	50.0000	49.8
48 2,4-Dichlorophenol	162	6.391	6.391	(0.976)	227744	50.0000	51.4
49 Benzoic Acid	122	6.327	6.327	(0.967)	182244	50.0000	67.7
50 1,2,4-Trichlorobenzene	180	6.492	6.492	(0.992)	252993	50.0000	50.9
51 Naphthalene	128	6.572	6.572	(1.004)	823225	50.0000	51.9
52 4-Chloroaniline	127	6.685	6.685	(1.021)	320366	50.0000	50.2
56 Hexachlorobutadiene	225	6.823	6.823	(1.042)	156504	50.0000	48.7
59 4-Chloro-3-Methylphenol	107	7.438	7.438	(1.136)	241000	50.0000	47.3
62 2-Methylnaphthalene	142	7.603	7.603	(1.162)	547677	50.0000	51.2
205 1-Methylnaphthalene	142	7.785	7.785	(1.189)	575590	50.0000	51.5
64 Hexachlorocyclopentadiene	237	7.988	7.988	(0.836)	145220	50.0000	43.6
66 2,4,6-Trichlorophenol	196	8.148	8.148	(0.852)	154933	50.0000	48.0
67 2,4,5-Trichlorophenol	196	8.228	8.228	(0.861)	176618	50.0000	51.4
70 2-Chloronaphthalene	162	8.442	8.442	(0.883)	511771	50.0000	53.3
73 2-Nitroaniline	65	8.715	8.715	(0.912)	180463	50.0000	47.8
76 Dimethylphthalate	163	9.147	9.147	(0.957)	568400	50.0000	49.8
78 2,6-Dinitrotoluene	165	9.276	9.276	(0.970)	130891	50.0000	49.8
79 Acenaphthylene	152	9.249	9.249	(0.968)	756601	50.0000	51.1
81 3-Nitroaniline	138	9.543	9.543	(0.998)	148841	50.0000	49.6
82 Acenaphthene	153	9.628	9.628	(1.007)	497560	50.0000	51.0
83 2,4-Dinitrophenol	184	9.756	9.756	(1.021)	72480	50.0000	53.2
85 4-Nitrophenol	109	9.986	9.986	(1.045)	83728	50.0000	45.1
86 Dibenzofuran	168	9.959	9.959	(1.042)	711233	50.0000	50.6
87 2,4-Dinitrotoluene	165	10.088	10.088	(1.055)	175964	50.0000	48.4
91 2,3,5,6-Tetrachlorophenol	232	10.253	10.253	(1.073)	157468	50.0000	44.7
88 2,3,4,6-Tetrachlorophenol	232	10.349	10.349	(1.083)	143799	50.0000	42.3
92 2-Naphthylamine	143	10.307	10.307	(1.078)	407228	50.0000	45.6
93 Diethylphthalate	149	10.670	10.670	(1.116)	568366	50.0000	48.6
94 Fluorene	166	10.707	10.707	(1.120)	584367	50.0000	50.2
95 4-Chlorophenyl-phenylether	204	10.745	10.745	(1.124)	281727	50.0000	48.9
96 4-Nitroaniline	138	10.878	10.878	(1.138)	146043	50.0000	47.2
98 4,6-Dinitro-2-methylphenol	198	10.974	10.974	(0.854)	103946	50.0000	56.1
99 N-Nitrosodiphenylamine	169	11.038	11.038	(0.859)	455017	50.0000	55.8
100 1,2-Diphenylhydrazine	77	11.097	11.097	(0.863)	645645	50.0000	52.2
106 4-Bromophenyl-phenylether	248	11.845	11.845	(0.921)	160043	50.0000	50.4
107 Hexachlorobenzene	284	12.150	12.150	(0.945)	162321	50.0000	49.4
111 Pentachlorophenol	266	12.609	12.609	(0.981)	96954	50.0000	42.6
115 Phenanthrene	178	12.914	12.914	(1.005)	820697	50.0000	51.2
116 Anthracene	178	13.015	13.015	(1.012)	840385	50.0000	51.3
119 Carbazole	167	13.464	13.464	(1.047)	773487	50.0000	50.6
120 Di-n-Butylphthalate	149	14.596	14.596	(1.135)	944006	50.0000	51.4
123 Fluoranthene	202	15.841	15.841	(1.232)	898335	50.0000	50.2
124 Benzidine	184	16.274	16.274	(0.835)	277994	50.0000	44.2
125 Pyrene	202	16.386	16.386	(0.841)	908106	50.0000	49.1
131 Butylbenzylphthalate	149	18.325	18.325	(0.941)	426490	50.0000	49.6
135 3,3'-Dichlorobenzidine	252	19.490	19.490	(1.000)	400840	50.0000	53.0
136 Benzo(a)Anthracene	228	19.442	19.442	(0.998)	906205	50.0000	49.4

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						{ NG}	{ NG}
=====	=====	==	=====	=====	=====	=====	=====
137 Chrysene	228	19.543	19.543	(1.003)	841143	50.0000	48.6
139 bis(2-ethylhexyl)Phthalate	149	19.901	19.901	(1.021)	600796	50.0000	49.8
140 Di-n-octylphthalate	149	21.365	21.365	(0.936)	1040187	50.0000	59.0
141 Benzo(b)fluoranthene	252	22.017	22.017	(0.964)	898342	50.0000	50.3
142 Benzo(k)fluoranthene	252	22.075	22.075	(0.967)	1114527	50.0000	60.7
143 7,12-dimethylbenz[a]anthracen	256	22.075	22.075	(0.967)	555666	50.0000	60.6
146 Benzo(a)pyrene	252	22.711	22.711	(0.995)	893551	50.0000	51.6
149 Indeno(1,2,3-cd)pyrene	276	25.062	25.062	(1.098)	1164546	50.0000	43.7
150 Dibenz(a,h)anthracene	278	25.104	25.104	(1.099)	993379	50.0000	45.4
151 Benzo(g,h,i)perylene	276	25.633	25.633	(1.123)	993958	50.0000	41.8
\$ 154 Nitrobenzene-d5	82	5.675	5.675	(0.867)	315383	50.0000	49.2
\$ 155 2-Fluorobiphenyl	172	8.277	8.277	(0.866)	564926	50.0000	52.2
\$ 156 Terphenyl-d14	244	16.915	16.915	(0.868)	714455	50.0000	48.7
\$ 157 Phenol-d5	99	4.729	4.729	(0.943)	385114	50.0000	51.6
\$ 158 2-Fluorophenol	112	3.698	3.698	(0.737)	296654	50.0000	52.5
\$ 159 2,4,6-Tribromophenol	330	11.300	11.300	(0.879)	81401	50.0000	47.9
\$ 186 2-Chlorophenol-d4	132	4.826	4.826	(0.962)	295795	50.0000	52.8
\$ 187 1,2-Dichlorobenzene-d4	152	5.226	5.226	(1.042)	185477	50.0000	51.3

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

679 279

Lab Code:

Case No.:

SAS No.:

SDG No.:

CIC 4/18/01

Instrument ID: 722

Calibration Date: 03/26/01

Time: 2147

Lab File ID: F03260CN

Init. Calib. Date(s): 02/26/01

02/26/01

Init. Calib. Times: 1104

1328

GC Column: HP5-MS

ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.734	1.761	0.01	1.6	20.0
bis(2-Chloroethyl) ether	1.345	1.341	0.01	0.3	50.0
2-Chlorophenol	1.274	1.307	0.01	2.6	50.0
1,3-Dichlorobenzene	1.428	1.458	0.01	2.1	50.0
1,4-Dichlorobenzene	1.453	1.505	0.01	3.6	20.0
1,2-Dichlorobenzene	1.344	1.397	0.01	3.9	50.0
2-Methylphenol	1.188	1.466	0.01	23.4	50.0
2,2'-oxybis(1-Chloropropane)	2.366	2.262	0.01	4.4	50.0
4-Methylphenol	1.262	1.276	0.01	1.1	50.0
Hexachloroethane	0.573	0.584	0.01	1.9	50.0
Nitrobenzene	0.404	0.401	0.01	0.7	50.0
Isophorone	0.644	0.619	0.01	3.9	50.0
2-Nitrophenol	0.181	0.188	0.01	3.9	20.0
2,4-Dimethylphenol	0.341	0.338	0.01	0.9	50.0
bis(2-Chloroethoxy) methane	0.401	0.397	0.01	1.0	50.0
N-Nitroso-di-n-propylamine	1.080	1.008	0.05	6.7	50.0
2,4-Dichlorophenol	0.265	0.268	0.01	1.1	20.0
1,2,4-Trichlorobenzene	0.297	0.306	0.01	3.0	50.0
Naphthalene	0.947	0.979	0.01	3.4	50.0
4-Chloroaniline	0.381	0.372	0.01	2.4	50.0
Hexachlorobutadiene	0.192	0.193	0.01	0.5	20.0
4-Chloro-3-Methylphenol	0.304	0.269	0.01	11.5	20.0
2-Methylnaphthalene	0.639	0.639	0.01	0.0	50.0
Hexachlorocyclopentadiene	0.359	0.334	0.05	7.0	50.0
2,4,6-Trichlorophenol	0.349	0.342	0.01	2.0	20.0
2,4,5-Trichlorophenol	0.371	0.369	0.01	0.5	50.0
2-Chloronaphthalene	1.036	1.143	0.01	10.3	50.0
2-Nitroaniline	0.408	0.378	0.01	7.4	50.0
Dimethylphthalate	1.233	1.174	0.01	4.8	50.0
Acenaphthylene	1.597	1.633	0.01	2.2	50.0
2,6-Dinitrotoluene	0.284	0.270	0.01	4.9	50.0
3-Nitroaniline	0.324	0.296	0.01	8.6	50.0
Acenaphthene	1.053	1.067	0.01	1.3	20.0
2,4-Dinitrophenol	0.147	0.135	0.05	8.2	50.0
4-Nitrophenol	0.200	0.151	0.05	24.5	50.0
Dibenzofuran	1.517	1.502	0.01	1.0	50.0
2,4-Dinitrotoluene	0.392	0.343	0.01	12.5	50.0

679 280

FORM 7

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C20184

Instrument ID: 722

Calibration Date: 03/26/01 Time: 2147

Lab File ID: F03260CN

Init. Calib. Date(s): 02/26/01 02/26/01

Init. Calib. Times: 1104 1328

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.262	1.140	0.01	9.7	50.0
4-Chlorophenyl-phenylether	0.622	0.592	0.01	4.8	50.0
Fluorene	1.256	1.209	0.01	3.7	50.0
4-Nitroaniline	0.334	0.269	0.01	19.5	50.0
4,6-Dinitro-2-methylphenol	0.112	0.121	0.01	8.0	50.0
N-Nitrosodiphenylamine	0.493	0.567	0.01	15.0	20.0
4-Bromophenyl-phenylether	0.192	0.203	0.01	5.7	50.0
Hexachlorobenzene	0.199	0.200	0.01	0.5	50.0
Pentachlorophenol	0.138	0.131	0.05	5.1	20.0
Phenanthrene	0.971	0.996	0.01	2.6	50.0
Anthracene	0.993	1.011	0.01	1.8	50.0
Carbazole	0.925	0.871	0.01	5.8	50.0
Di-n-Butylphthalate	1.111	1.086	0.01	2.2	50.0
Fluoranthene	1.084	0.990	0.01	8.7	20.0
Pyrene	0.982	1.032	0.01	5.1	50.0
Butylbenzylphthalate	0.457	0.469	0.01	2.6	50.0
3,3'-Dichlorobenzidine	0.402	0.417	0.01	3.7	50.0
Benzo(a)Anthracene	0.976	0.967	0.01	0.9	50.0
Chrysene	0.920	0.897	0.01	2.5	50.0
bis(2-ethylhexyl)Phthalate	0.641	0.650	0.01	1.4	50.0
Di-n-octylphthalate	1.027	1.171	0.01	14.0	20.0
Benzo(b)fluoranthene	1.041	1.035	0.01	0.6	50.0
Benzo(k)fluoranthene	1.069	1.250	0.01	16.9	50.0
Benzo(a)pyrene	1.009	1.035	0.01	2.6	20.0
Indeno(1,2,3-cd)pyrene	1.551	1.446	0.01	6.8	50.0
Dibenz(a,h)anthracene	1.273	1.233	0.01	3.1	50.0
Benzo(g,h,i)perylene	1.386	1.238	0.01	10.7	50.0
Pyridine	1.254	1.246	0.01	0.6	50.0
N-Nitrosodimethylamine	0.778	0.781	0.01	0.4	50.0
Aniline	1.896	1.913	0.01	0.9	50.0
Benzyl Alcohol	1.002	0.550	0.01	45.1	50.0
Benzoic Acid	0.161	0.157	0.01	2.5	50.0
2,3,4,6-Tetrachlorophenol	0.367	0.294	0.01	19.9	50.0
2,3,5,6-Tetrachlorophenol	0.381	0.301	0.01	21.0	50.0
1,2-Diphenylhydrazine	0.749	0.841	0.01	12.3	50.0
Benzidine	0.334	0.313	0.01	6.3	50.0
Methyl methanesulfonate	0.128	0.070	0.01	45.3	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

679 281

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

C1C210184

Instrument ID: 722

Calibration Date: 03/26/01

Time: 2147

Lab File ID: F03260CN

Init. Calib. Date(s): 02/26/01

02/26/01

Init. Calib. Times: 1104

1328

GC Column: HP5-MS

ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
2-Naphthylamine	0.963	0.858	0.01	10.9	50.0
7,12-dimethylbenz[a]anthrace	0.533	0.621	0.01	16.5	50.0
1-Methylnaphthalene	0.667	0.664	0.01	0.4	50.0
Nitrobenzene-d5	0.383	0.382	0.01	0.3	50.0
2-Fluorobiphenyl	1.169	1.270	0.01	8.6	50.0
Terphenyl-d14	0.780	0.796	0.01	2.0	50.0
Phenol-d5	1.720	1.739	0.01	1.1	50.0
2-Fluorophenol	1.302	1.361	0.01	4.5	50.0
2,4,6-Tribromophenol	0.103	0.099	0.01	3.9	50.0
2-Chlorophenol-d4	1.292	1.348	0.01	4.3	50.0
1,2-Dichlorobenzene-d4	0.833	0.854	0.01	2.5	50.0

679 282

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 722.i
Lab File ID: F03260CN.D
Analysis Type: NONE

Injection Date: 26-MAR-2001 21:47
Lab Sample ID: sstd050
Method File: \\QPITPA02\D\chem\722.i\032601n.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
66 Pyridine	50.0000	49.6816	0.6	50.0
67 N-Nitrosodimethylamine	50.0000	50.1875	0.4	50.0
87 Methyl methanesulfonate	50.0000	27.1779	45.6	50.0
185 2-Fluorophenol	50.0000	52.2560	4.5	50.0
68 Aniline	50.0000	50.4393	0.9	50.0
184 Phenol-d5	50.0000	50.5622	1.1	50.0
1 Phenol	50.0000	50.7762	1.6	20.0
2 bis(2-Chloroethyl)ether	50.0000	49.8361	0.3	50.0
187 2-Chlorophenol-d4	50.0000	52.1591	4.3	50.0
3 2-Chlorophenol	50.0000	51.2649	2.5	50.0
4 1,3-Dichlorobenzene	50.0000	51.0289	2.1	50.0
11 1,4-Dichlorobenzene-d4	40.0000	40.0000	0.0	50.0
5 1,4-Dichlorobenzene	50.0000	51.7935	3.6	20.0
188 1,2-Dichlorobenzene-d4	50.0000	51.2370	2.5	50.0
6 1,2-Dichlorobenzene	50.0000	51.9689	3.9	50.0
69 Benzyl Alcohol	50.0000	27.4403	45.1	50.0
7 2-Methylphenol	50.0000	61.7383	23.5	50.0
8 2,2'-oxybis(1-Chloropropane)	50.0000	47.8115	4.4	50.0
9 4-Methylphenol	50.0000	50.5810	1.2	50.0
18 N-Nitroso-di-n-propylamine	50.0000	46.6615	6.7	50.0
12 Hexachloroethane	50.0000	50.9845	2.0	50.0
181 Nitrobenzene-d5	50.0000	49.8985	0.2	50.0
13 Nitrobenzene	50.0000	49.5594	0.9	50.0
14 Isophorone	50.0000	48.0526	3.9	50.0
15 2-Nitrophenol	50.0000	51.8216	3.6	20.0
16 2,4-Dimethylphenol	50.0000	49.5413	0.9	50.0
17 bis(2-Chloroethoxy)methane	50.0000	49.5660	0.9	50.0
71 Benzoic Acid	50.0000	48.8697	2.3	50.0
18 2,4-Dichlorophenol	50.0000	50.5254	1.1	20.0
19 1,2,4-Trichlorobenzene	50.0000	51.5418	3.1	50.0
32 Naphthalene-d8	40.0000	40.0000	0.0	50.0
20 Naphthalene	50.0000	51.7244	3.4	50.0
21 4-Chloroaniline	50.0000	48.7509	2.5	50.0
22 Hexachlorobutadiene	50.0000	50.2006	0.4	20.0
23 4-Chloro-3-Methylphenol	50.0000	44.2268	11.5	20.0
24 2-Methylnaphthalene	50.0000	49.9846	0.0	50.0
205 1-Methylnaphthalene	50.0000	49.7399	0.5	50.0
25 Hexachlorocyclopentadiene	50.0000	46.5068	7.0	50.0
26 2,4,6-Trichlorophenol	50.0000	49.0402	1.9	20.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 722.i
Lab File ID: F03260CN.D
Analysis Type: NONE

Injection Date: 26-MAR-2001 21:47
Lab Sample ID: sstd050
Method File: \\QPITPA02\D\chem\722.i\032601n.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
27 2,4,5-Trichlorophenol	50.0000	49.7025	0.6	50.0
182 2-Fluorobiphenyl	50.0000	54.3326	8.7	50.0
28 2-Chloronaphthalene	50.0000	55.1619	10.3	50.0
29 2-Nitroaniline	50.0000	46.4048	7.2	50.0
30 Dimethylphthalate	50.0000	47.5973	4.8	50.0
31 Acenaphthylene	50.0000	51.1087	2.2	50.0
32 2,6-Dinitrotoluene	50.0000	47.5299	4.9	50.0
33 3-Nitroaniline	50.0000	45.7326	8.5	50.0
52 Acenaphthene-d10	40.0000	40.0000	0.0	50.0
34 Acenaphthene	50.0000	50.6547	1.3	20.0
35 2,4-Dinitrophenol	50.0000	45.7886	8.4	50.0
37 Dibenzofuran	50.0000	49.5108	1.0	50.0
36 4-Nitrophenol	50.0000	37.7806	24.4	50.0
38 2,4-Dinitrotoluene	50.0000	43.7791	12.4	50.0
77 2,3,5,6-Tetrachlorophenol	50.0000	39.5653	20.9	50.0
114 2-Naphthylamine	50.0000	44.5428	10.9	50.0
76 2,3,4,6-Tetrachlorophenol	50.0000	40.0882	19.8	50.0
39 Diethylphthalate	50.0000	45.1560	9.7	50.0
41 Fluorene	50.0000	48.1383	3.7	50.0
40 4-Chlorophenyl-phenylether	50.0000	47.6552	4.7	50.0
42 4-Nitroaniline	50.0000	40.3127	19.4	50.0
43 4,6-Dinitro-2-methylphenol	50.0000	54.0391	8.1	50.0
44 N-Nitrosodiphenylamine	50.0000	57.4242	14.8	20.0
78 1,2-Diphenylhydrazine	50.0000	56.1337	12.3	50.0
186 2,4,6-Tribromophenol	50.0000	48.2665	3.5	50.0
45 4-Bromophenyl-phenylether	50.0000	52.7476	5.5	50.0
46 Hexachlorobenzene	50.0000	50.3371	0.7	50.0
47 Pentachlorophenol	50.0000	47.6866	4.6	20.0
78 Phenanthrene-d10	40.0000	40.0000	0.0	50.0
48 Phenanthrene	50.0000	51.2652	2.5	50.0
49 Anthracene	50.0000	50.9417	1.9	50.0
50 Carbazole	50.0000	47.1170	5.8	50.0
51 Di-n-Butylphthalate	50.0000	48.8430	2.3	50.0
52 Fluoranthene	50.0000	45.6448	8.7	20.0
79 Benzidine	50.0000	46.8558	6.3	50.0
53 Pyrene	50.0000	52.5395	5.1	50.0
183 Terphenyl-d14	50.0000	51.0173	2.0	50.0
54 Butylbenzylphthalate	50.0000	51.3477	2.7	50.0
56 Benzo(a)Anthracene	50.0000	49.5690	0.9	50.0

Data File: \\QPITPA02\d\chem\722.i\032601n.b\F03260CN.D
Report Date: 03/26/2001

679 284

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 722.i
Lab File ID: F03260CN.D
Analysis Type: NONE

Injection Date: 26-MAR-2001 21:47
Lab Sample ID: sstd050
Method File: \\QPITPA02\D\chem\722.i\032601n.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
90 Chrysene-d12	40.0000	40.0000	0.0	50.0
55 3,3'-Dichlorobenzidine	50.0000	51.8739	3.7	50.0
57 Chrysene	50.0000	48.7137	2.6	50.0
58 bis(2-ethylhexyl) Phthalate	50.0000	50.6964	1.4	50.0
59 Di-n-octylphthalate	50.0000	56.9897	14.0	20.0
60 Benzo(b) fluoranthene	50.0000	49.7319	0.5	50.0
61 Benzo(k) fluoranthene	50.0000	58.4455	16.9	50.0
143 7,12-dimethylbenz[a]anthracen	50.0000	58.1780	16.4	50.0
62 Benzo(a)pyrene	50.0000	51.2904	2.6	20.0
101 Perylene-d12	40.0000	40.0000	0.0	50.0
63 Indeno(1,2,3-cd)pyrene	50.0000	46.6301	6.7	50.0
64 Dibenz(a,h)anthracene	50.0000	48.4080	3.2	50.0
65 Benzo(g,h,i)perylene	50.0000	44.6614	10.7	50.0

Data File: \\GPITPA02\chem\722.1\032601n.b\F03260CN.D

Date: 26-Mar-2001 21:47

Client ID: SST050

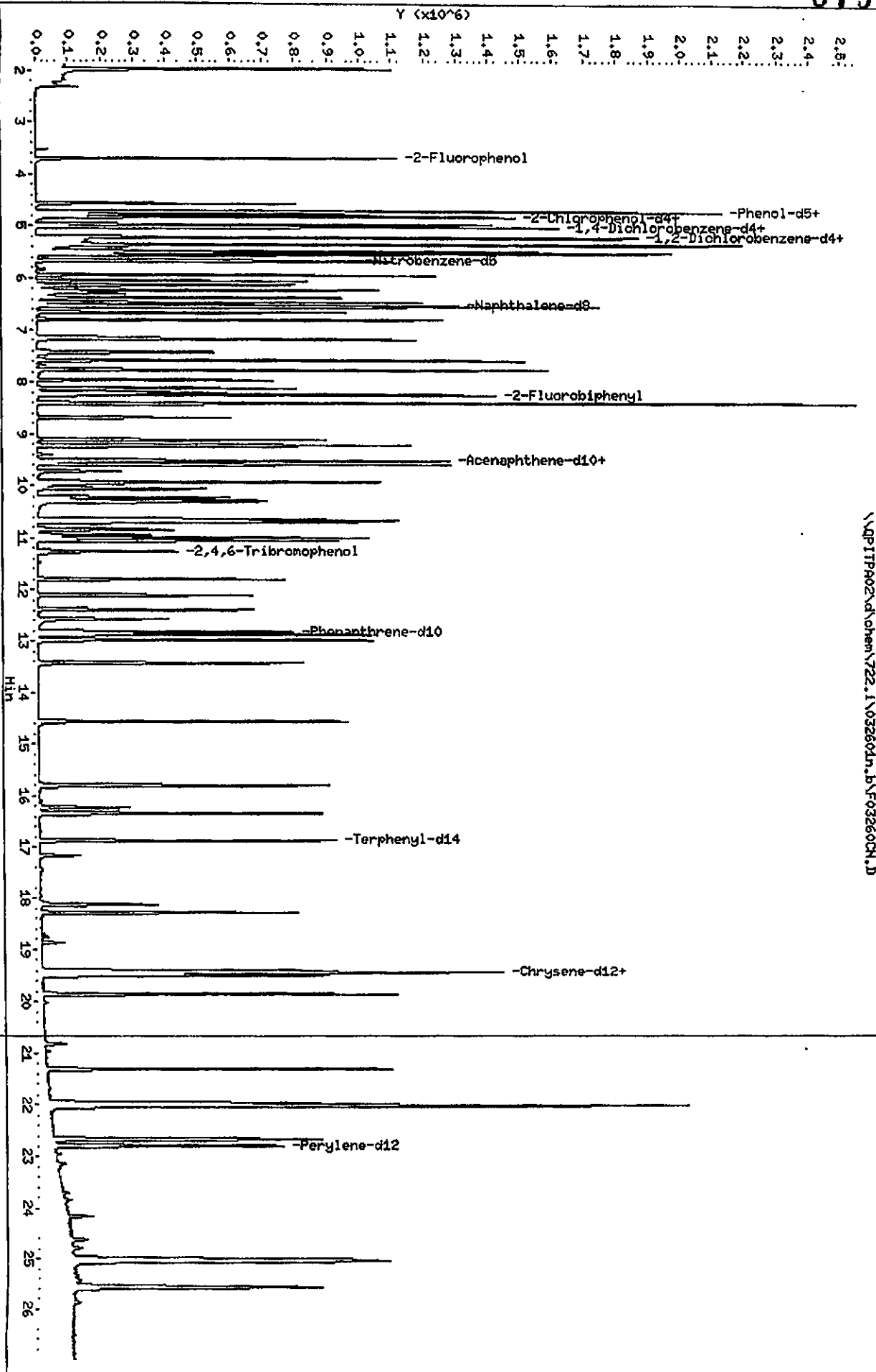
Sample Info: SST050 (25ppb) 77-15-13

Column phase: Hp5-MS

Instrument: 722.1

Operator: 007062

Column diameter: 0.25



679 286

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032601n.b\F03260CN.D
Lab Smp Id: sstd050 Client Smp ID: SSTD050
Inj Date : 26-MAR-2001 21:47
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD050 (25ppb) 77-15-13
Misc Info : sstd050,032601n.b,8270b.m,2-root.sub,2,2
Comment :
Method : \\QPITPA02\D\chem\722.i\032601n.b\8270b.m
Meth Date : 26-Mar-2001 22:16 tapsvc Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC062

WJL
3/26/01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.008	5.008	(1.000)	226555	40.0000	
* 2 Naphthalene-d8	136	6.525	6.525	(1.000)	847666	40.0000	
* 3 Acenaphthene-d10	164	9.528	9.528	(1.000)	433967	40.0000	
* 4 Phenanthrene-d10	188	12.818	12.818	(1.000)	690585	40.0000	
* 5 Chrysene-d12	240	19.437	19.437	(1.000)	663369	40.0000	
* 6 Perylene-d12	264	22.787	22.787	(1.000)	641208	40.0000	
10 N-Nitrosodimethylamine	74	1.968	1.968	(0.393)	221137	50.0000	50.2
9 Pyridine	79	1.963	1.963	(0.392)	352826	50.0000	49.7
16 Methyl methanesulfonate	80	3.528	3.528	(0.705)	19706	50.0000	27.2
21 Aniline	93	4.714	4.714	(0.941)	541741	50.0000	50.4
22 Phenol	94	4.730	4.730	(0.945)	498754	50.0000	50.8
23 bis(2-Chloroethyl) ether	93	4.778	4.778	(0.954)	379703	50.0000	49.8
24 2-Chlorophenol	128	4.832	4.832	(0.965)	370086	50.0000	51.3
26 1,3-Dichlorobenzene	146	4.965	4.965	(0.991)	412776	50.0000	51.0
27 1,4-Dichlorobenzene	146	5.024	5.024	(1.003)	426333	50.0000	51.8
28 1,2-Dichlorobenzene	146	5.227	5.227	(1.044)	395727	50.0000	52.0
29 Benzyl Alcohol	108	5.302	5.302	(1.059)	155791	50.0000	27.4 (M)
30 2-Methylphenol	108	5.355	5.355	(1.069)	415196	50.0000	61.7
31 2,2'-oxybis(1-Chloropropane)	45	5.355	5.355	(1.069)	640730	50.0000	47.8
32 N-Nitroso-di-n-propylamine	70	5.516	5.516	(1.101)	285365	50.0000	46.7
192 4-Methylphenol	108	5.516	5.516	(1.101)	361488	50.0000	50.6
34 Hexachloroethane	117	5.564	5.564	(1.111)	165440	50.0000	51.0
35 Nitrobenzene	77	5.681	5.681	(0.871)	424595	50.0000	49.6
41 Isophorone	82	5.954	5.954	(0.912)	656221	50.0000	48.0
42 2-Nitrophenol	139	6.061	6.061	(0.929)	199167	50.0000	51.8
43 2,4-Dimethylphenol	107	6.130	6.130	(0.939)	357739	50.0000	49.5

679 287

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
*****	****	==	=====	=====	=====	=====	=====
44 bis(2-Chloroethoxy)methane	93	6.237	6.237	(0.956)	420791	50.0000	49.6
48 2,4-Dichlorophenol	162	6.376	6.376	(0.977)	283598	50.0000	50.5
49 Benzoic Acid	122	6.301	6.301	(0.966)	166493	50.0000	48.9
50 1,2,4-Trichlorobenzene	180	6.472	6.472	(0.992)	324545	50.0000	51.5
51 Naphthalene	128	6.552	6.552	(1.004)	1037843	50.0000	51.7
52 4-Chloroaniline	127	6.659	6.659	(1.020)	393953	50.0000	48.8
56 Hexachlorobutadiene	225	6.798	6.798	(1.042)	204314	50.0000	50.2
59 4-Chloro-3-Methylphenol	107	7.417	7.417	(1.137)	285083	50.0000	44.2
62 2-Methylnaphthalene	142	7.578	7.578	(1.161)	676937	50.0000	50.0
205 1-Methylnaphthalene	142	7.759	7.759	(1.189)	703110	50.0000	49.7
64 Hexachlorocyclopentadiene	237	7.957	7.957	(0.835)	181260	50.0000	46.5
66 2,4,6-Trichlorophenol	196	8.117	8.117	(0.852)	185523	50.0000	49.0
67 2,4,5-Trichlorophenol	196	8.203	8.203	(0.861)	200110	50.0000	49.7
70 2-Chloronaphthalene	162	8.416	8.416	(0.883)	619821	50.0000	55.2
73 2-Nitroaniline	65	8.684	8.684	(0.911)	205240	50.0000	46.4
76 Dimethylphthalate	163	9.116	9.116	(0.957)	636695	50.0000	47.6
78 2,6-Dinitrotoluene	165	9.244	9.244	(0.970)	146215	50.0000	47.5
79 Acenaphthylene	152	9.218	9.218	(0.967)	885834	50.0000	51.1
81 3-Nitroaniline	138	9.512	9.512	(0.998)	160774	50.0000	45.7
82 Acenaphthene	153	9.592	9.592	(1.007)	578956	50.0000	50.6
83 2,4-Dinitrophenol	184	9.725	9.725	(1.021)	73023	50.0000	45.8
85 4-Nitrophenol	109	9.960	9.960	(1.045)	82069	50.0000	37.8
86 Dibenzofuran	168	9.923	9.923	(1.041)	815048	50.0000	49.5
87 2,4-Dinitrotoluene	165	10.056	10.056	(1.056)	186334	50.0000	43.8
91 2,3,5,6-Tetrachlorophenol	232	10.217	10.217	(1.072)	163353	50.0000	39.6
88 2,3,4,6-Tetrachlorophenol	232	10.313	10.313	(1.082)	159728	50.0000	40.1
92 2-Naphthylamine	143	10.275	10.275	(1.078)	465270	50.0000	44.5
93 Diethylphthalate	149	10.633	10.633	(1.116)	618437	50.0000	45.2
94 Fluorene	166	10.671	10.671	(1.120)	656093	50.0000	48.1
95 4-Chlorophenyl-phenylether	204	10.708	10.708	(1.124)	321449	50.0000	47.6
96 4-Nitroaniline	138	10.842	10.842	(1.138)	145939	50.0000	40.3
98 4,6-Dinitro-2-methylphenol	198	10.943	10.943	(0.854)	104657	50.0000	54.0
99 N-Nitrosodiphenylamine	169	11.002	11.002	(0.858)	489316	50.0000	57.4
100 1,2-Diphenylhydrazine	77	11.061	11.061	(0.863)	725858	50.0000	56.1
106 4-Bromophenyl-phenylether	248	11.809	11.809	(0.921)	174958	50.0000	52.7
107 Hexachlorobenzene	284	12.113	12.113	(0.945)	173031	50.0000	50.3
111 Pentachlorophenol	266	12.567	12.567	(0.980)	113494	50.0000	47.7
115 Phenanthrene	178	12.872	12.872	(1.004)	859703	50.0000	51.3
116 Anthracene	178	12.979	12.979	(1.013)	872919	50.0000	50.9
119 Carbazole	167	13.422	13.422	(1.047)	752252	50.0000	47.1
120 Di-n-Butylphthalate	149	14.555	14.555	(1.135)	937381	50.0000	48.8
123 Fluoranthene	202	15.799	15.799	(1.233)	854631	50.0000	45.6
124 Benzidine	184	16.227	16.227	(0.835)	259533	50.0000	46.8
125 Pyrene	202	16.344	16.344	(0.841)	855965	50.0000	52.5
131 Butylbenzylphthalate	149	18.278	18.278	(0.940)	388972	50.0000	51.3
135 3,3'-Dichlorobenzidine	252	19.443	19.443	(1.000)	345531	50.0000	51.9
136 Benzo(a)Anthracene	228	19.395	19.395	(0.998)	802216	50.0000	49.6

679 288

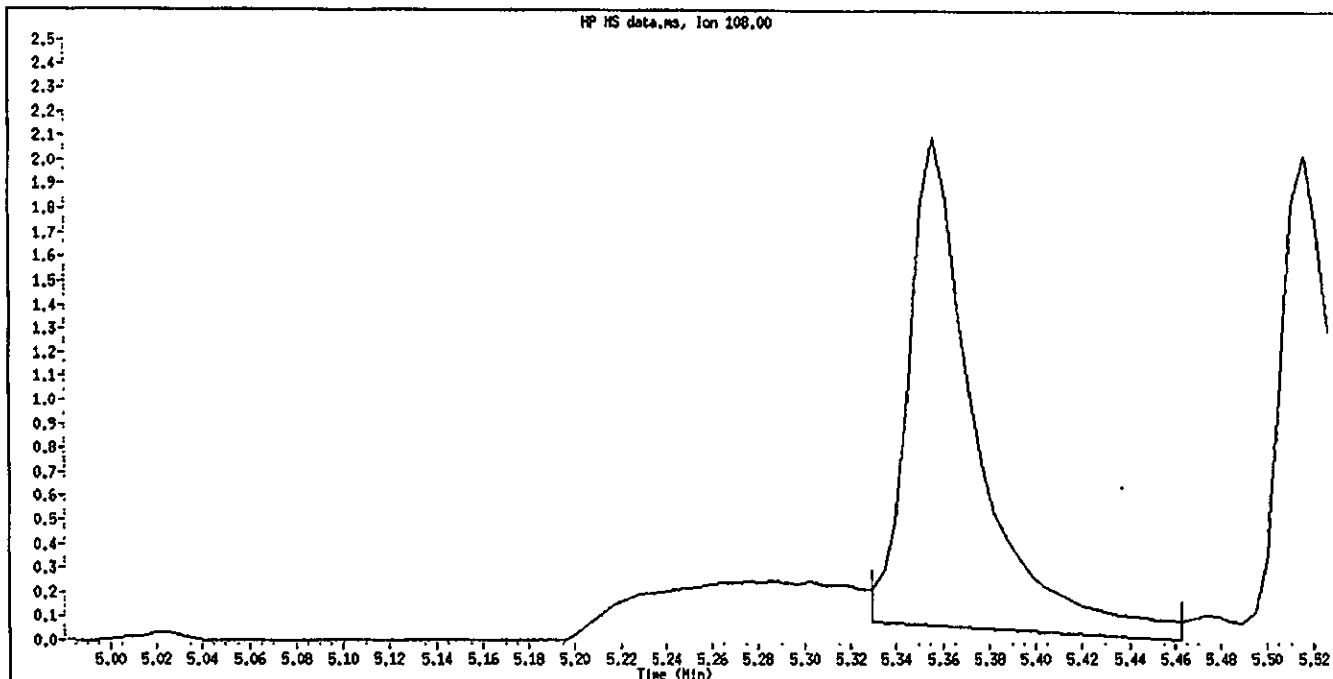
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
137 Chrysene	228	19.496	19.496	(1.003)	743523	50.0000	48.7
139 bis(2-ethylhexyl)Phthalate	149	19.854	19.854	(1.021)	539178	50.0000	50.7
140 Di-n-octylphthalate	149	21.318	21.318	(0.936)	938579	50.0000	57.0
141 Benzo(b)fluoranthene	252	21.975	21.975	(0.964)	829753	50.0000	49.7
142 Benzo(k)fluoranthene	252	22.028	22.028	(0.967)	1001500	50.0000	58.4
143 7,12-dimethylbenz[a]anthracen	256	22.028	22.028	(0.967)	497546	50.0000	58.2
146 Benzo(a)pyrene	252	22.664	22.664	(0.995)	829495	50.0000	51.3
149 Indeno(1,2,3-cd)pyrene	276	25.009	25.009	(1.098)	1159401	50.0000	46.6
150 Dibenz(a,h)anthracene	278	25.052	25.052	(1.099)	988026	50.0000	48.4
151 Benzo(g,h,i)perylene	276	25.575	25.575	(1.122)	992259	50.0000	44.7
\$ 154 Nitrobenzene-d5	82	5.660	5.660	(0.867)	404628	50.0000	49.9
\$ 155 2-Fluorobiphenyl	172	8.245	8.245	(0.865)	688884	50.0000	54.3
\$ 156 Terphenyl-d14	244	16.873	16.873	(0.868)	660247	50.0000	51.0
\$ 157 Phenol-d5	99	4.720	4.720	(0.942)	492505	50.0000	50.6
\$ 158 2-Fluorophenol	112	3.694	3.694	(0.738)	385409	50.0000	52.2
\$ 159 2,4,6-Tribromophenol	330	11.264	11.264	(0.879)	85804	50.0000	48.3
\$ 186 2-Chlorophenol-d4	132	4.816	4.816	(0.962)	381604	50.0000	52.2
\$ 187 1,2-Dichlorobenzene-d4	152	5.211	5.211	(1.041)	241774	50.0000	51.2

QC Flag Legend

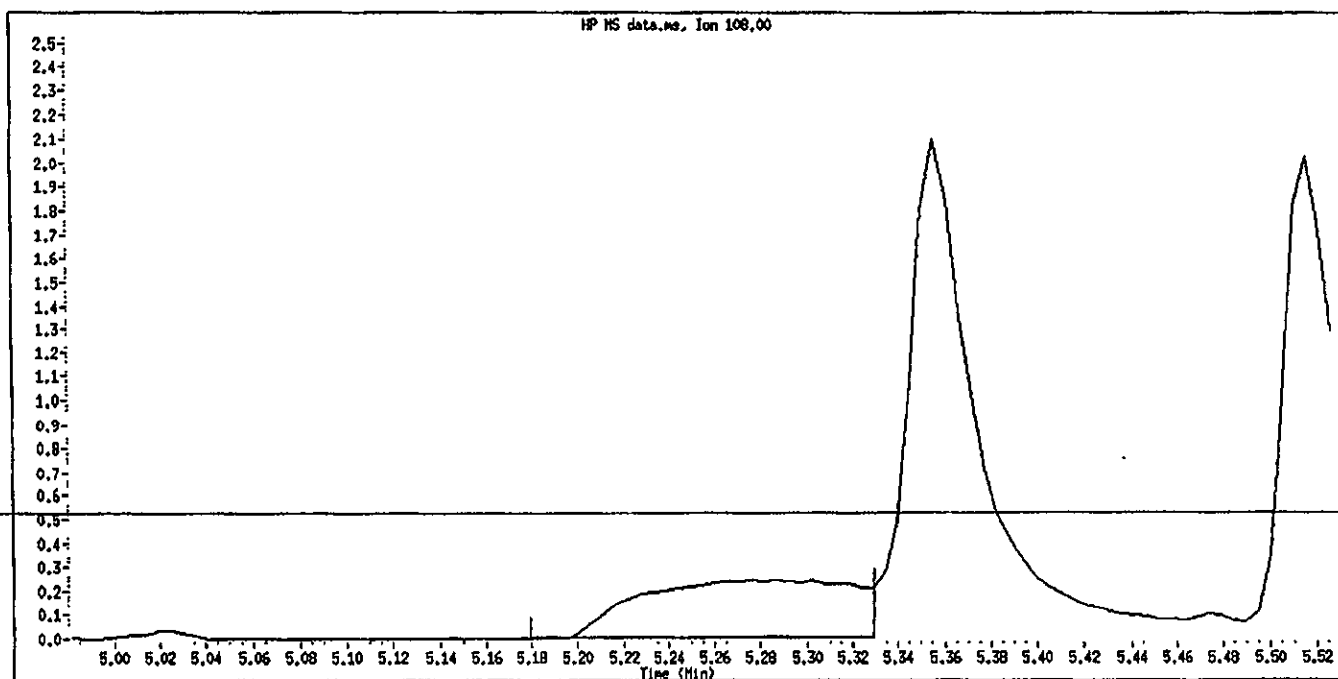
M - Compound response manually integrated.

Data File Name. F03260CN.D
Inj. Date and Time. 26-MAR-2001 21:47
Instrument ID: 722.i
Client ID. SST0050
Compound Name: Benzyl Alcohol
CAS #: 100-51-6
Report Date: 03/26/2001

679 289



Original Integration



Manual Integration

Manually Integrated By: bungardf /w/3/26/01
Manual Integration Reason: Poor Chromatography

679 290

GC/MS SEMIVOLATILE
QC DATA

Date : 26-FEB-2001 10:46

Client ID: DFTPP02

Instrument: 722.1

679 291

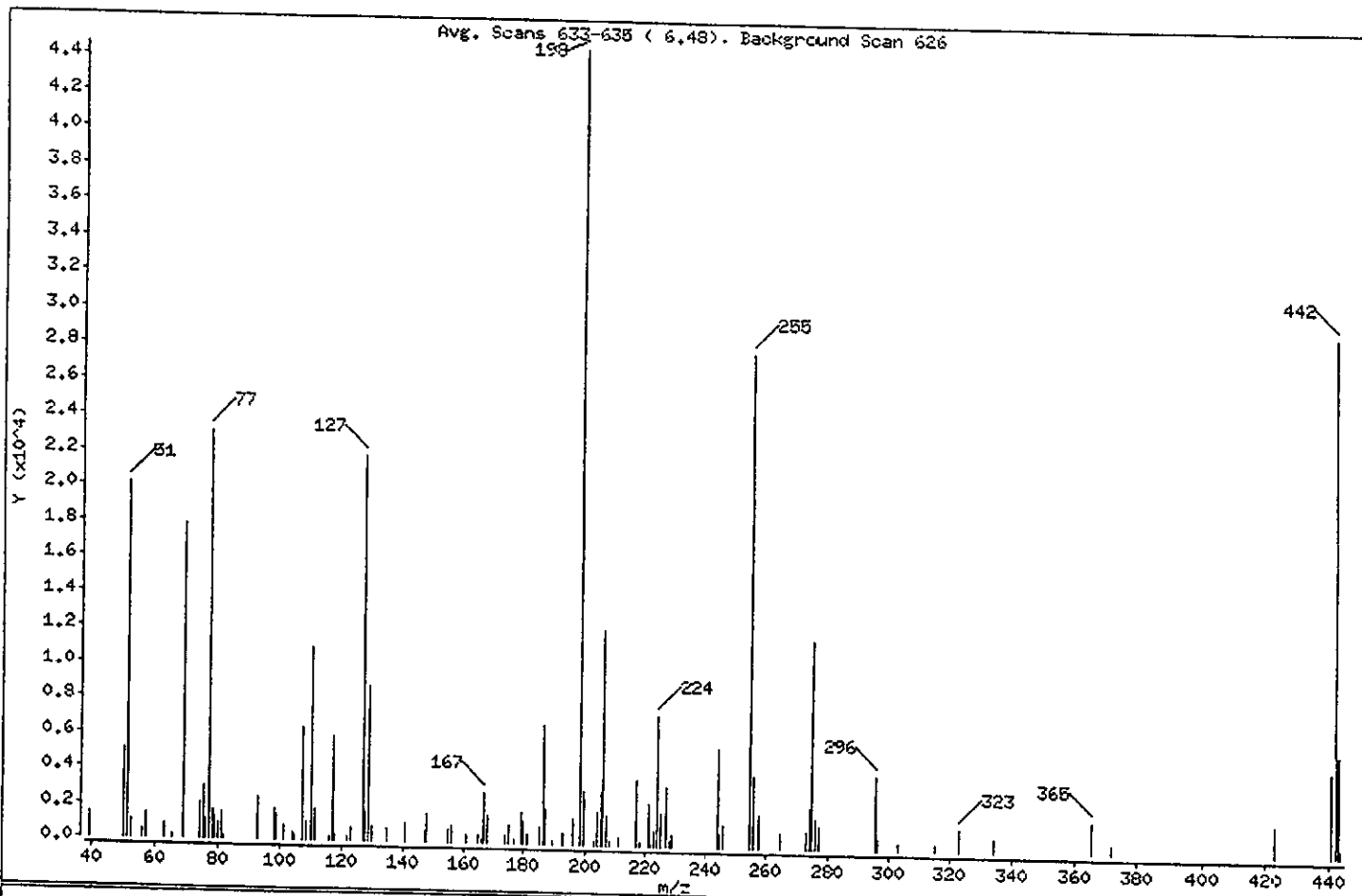
Sample Info: DFTPP050 (25ppb) 77/06/09

Operator: 007062

Column phase:

Column diameter: 2.00

1 dftpp



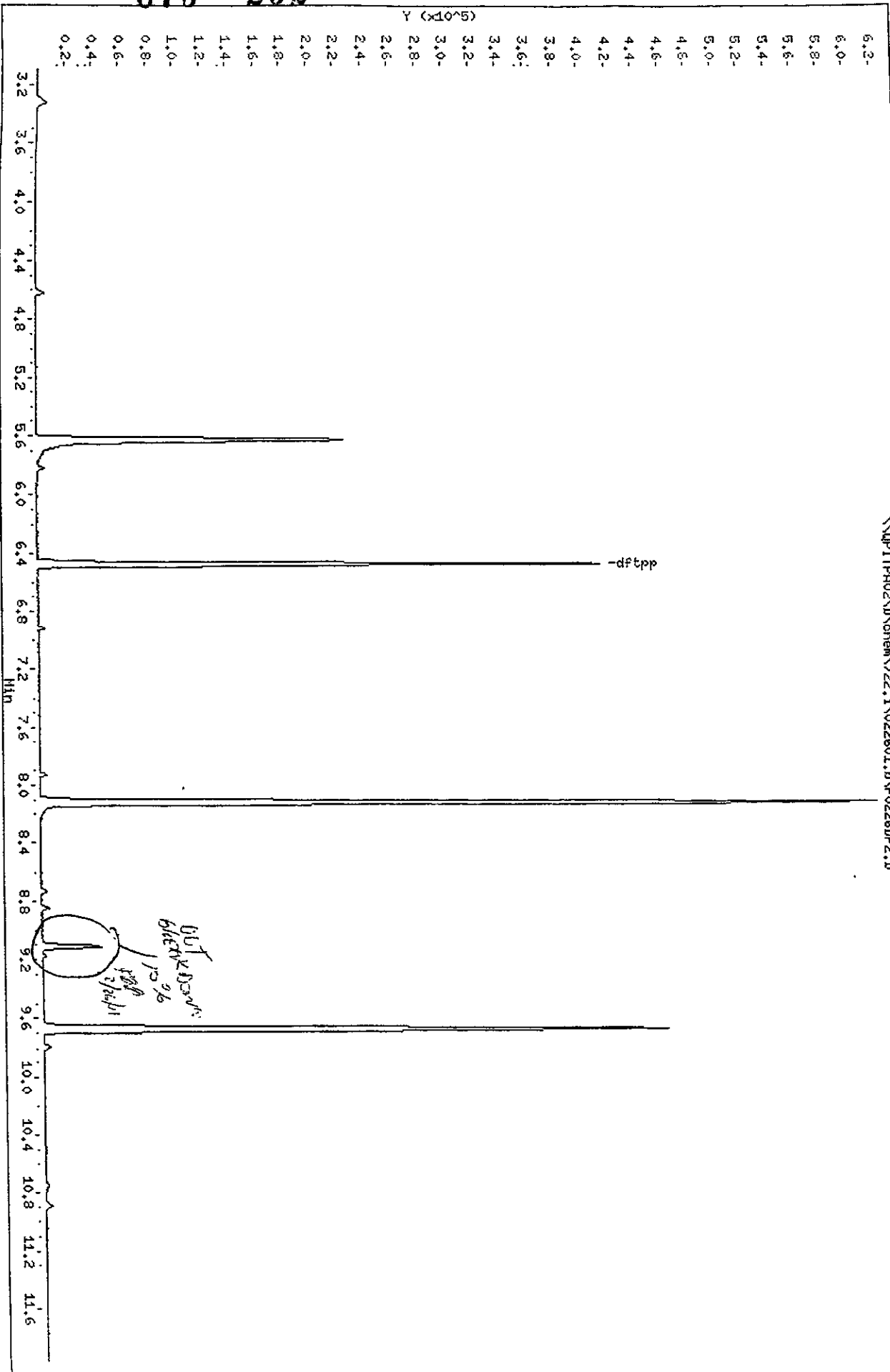
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.04
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.05
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	48.66
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	26.09
365	Greater than 1.00% of mass 198	3.79
441	Present, but less than mass 443	10.57
442	40.00 - 100.00% of mass 198	65.60
443	17.00 - 23.00% of mass 442	12.63 (19.25)

Data File: \\QP1TP02\Jchem\722.1\022601.b\F0226DF2.D
 Date: 26-FEB-2001 10:46
 Client ID: DFTPP02
 Sample Info: DFTPP050 (25ppb) 77/06/09

Instrument: 722.1
 Operator: 007062
 Column diameter: 2.00

Column phase:

\\QP1TP02\Jchem\722.1\022601.b\F0226DF2.D



Date : 26-FEB-2001 10:46

Client ID: DFTPP02

Sample Info: DFTPP050 (25ppb) 77/06/09

Instrument: 722.1

679 293

Operator: 007062

Column phase:

Column diameter: 2.00

Data File: F0226DF2.D

Spectrum: Avg. Scans 633-635 (6.48), Background Scan 626

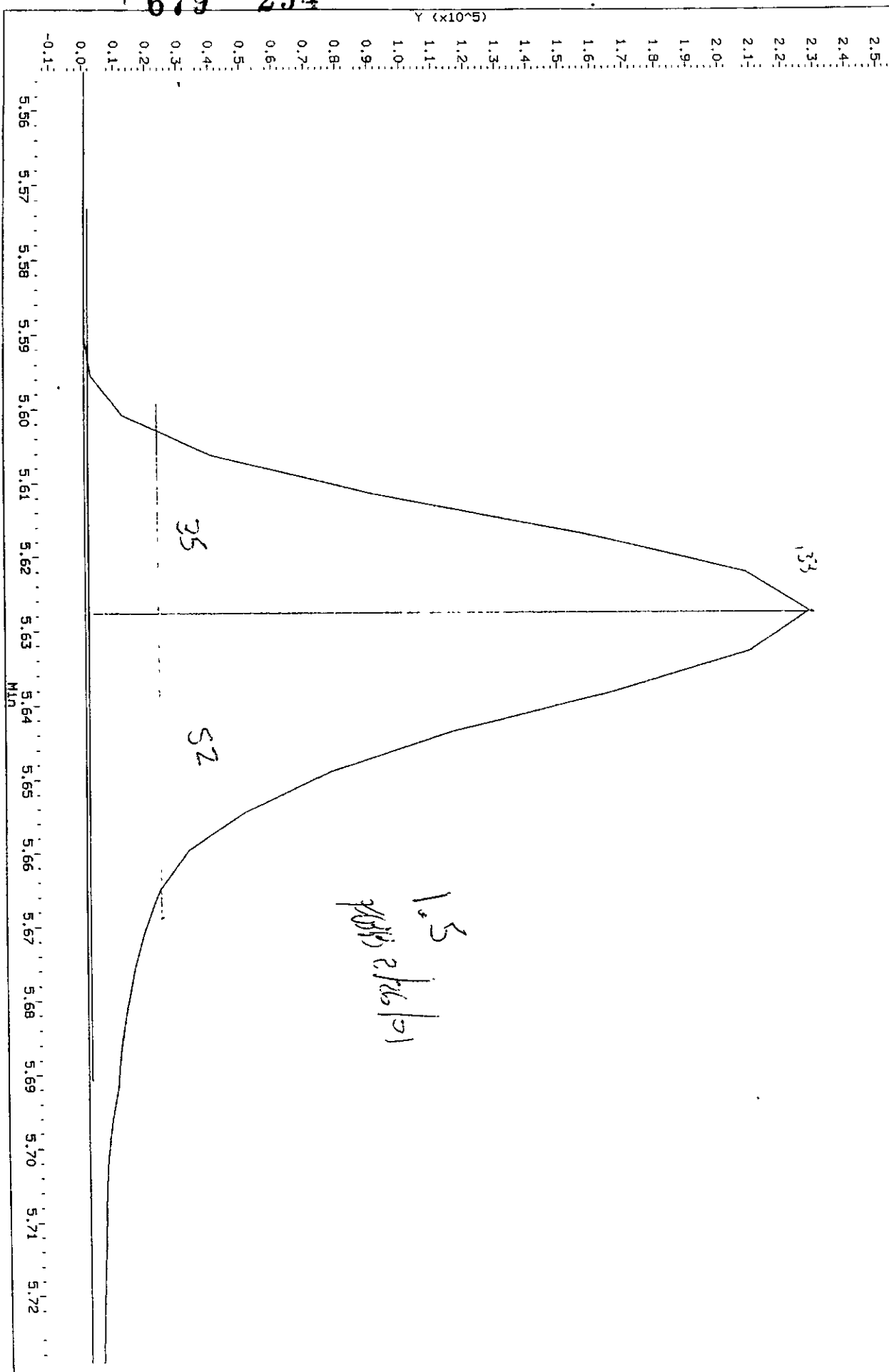
Location of Maximum: 198.00

Number of points: 105

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1483	111.00	1732	185.00	919	245.00	763
50.00	5005	116.00	175	186.00	6619	246.00	1265
51.00	20104	117.00	5816	187.00	1916	255.00	27856
52.00	1064	118.00	345	189.00	182	256.00	4025
56.00	477	122.00	184	192.00	652	258.00	1898
57.00	1414	123.00	741	193.00	629	265.00	795
63.00	827	127.00	21720	196.00	1404	273.00	892
65.00	210	128.00	1647	198.00	44632	274.00	2281
69.00	17872	129.00	8728	199.00	2930	275.00	11647
74.00	2055	130.00	770	203.00	182	276.00	1660
75.00	2930	135.00	743	204.00	1863	277.00	1227
76.00	1101	141.00	1077	205.00	2957	296.00	4139
77.00	23136	147.00	647	206.00	12097	297.00	582
78.00	1600	148.00	1502	207.00	1684	303.00	389
79.00	1274	155.00	724	208.00	173	315.00	390
80.00	968	156.00	947	211.00	384	323.00	1203
81.00	1518	161.00	380	217.00	3681	334.00	703
82.00	175	165.00	367	218.00	180	365.00	1693
93.00	2380	166.00	181	221.00	2404	372.00	533
98.00	1720	167.00	2783	222.00	203	423.00	1633
99.00	1430	168.00	1832	223.00	840	441.00	4717
101.00	775	174.00	387	224.00	7250	442.00	29280
104.00	379	175.00	976	225.00	1815	443.00	5636
105.00	197	177.00	173	227.00	3295	444.00	433
107.00	6404	179.00	1769	228.00	353		
108.00	1037	180.00	1262	229.00	664		
110.00	10870	181.00	465	244.00	5507		

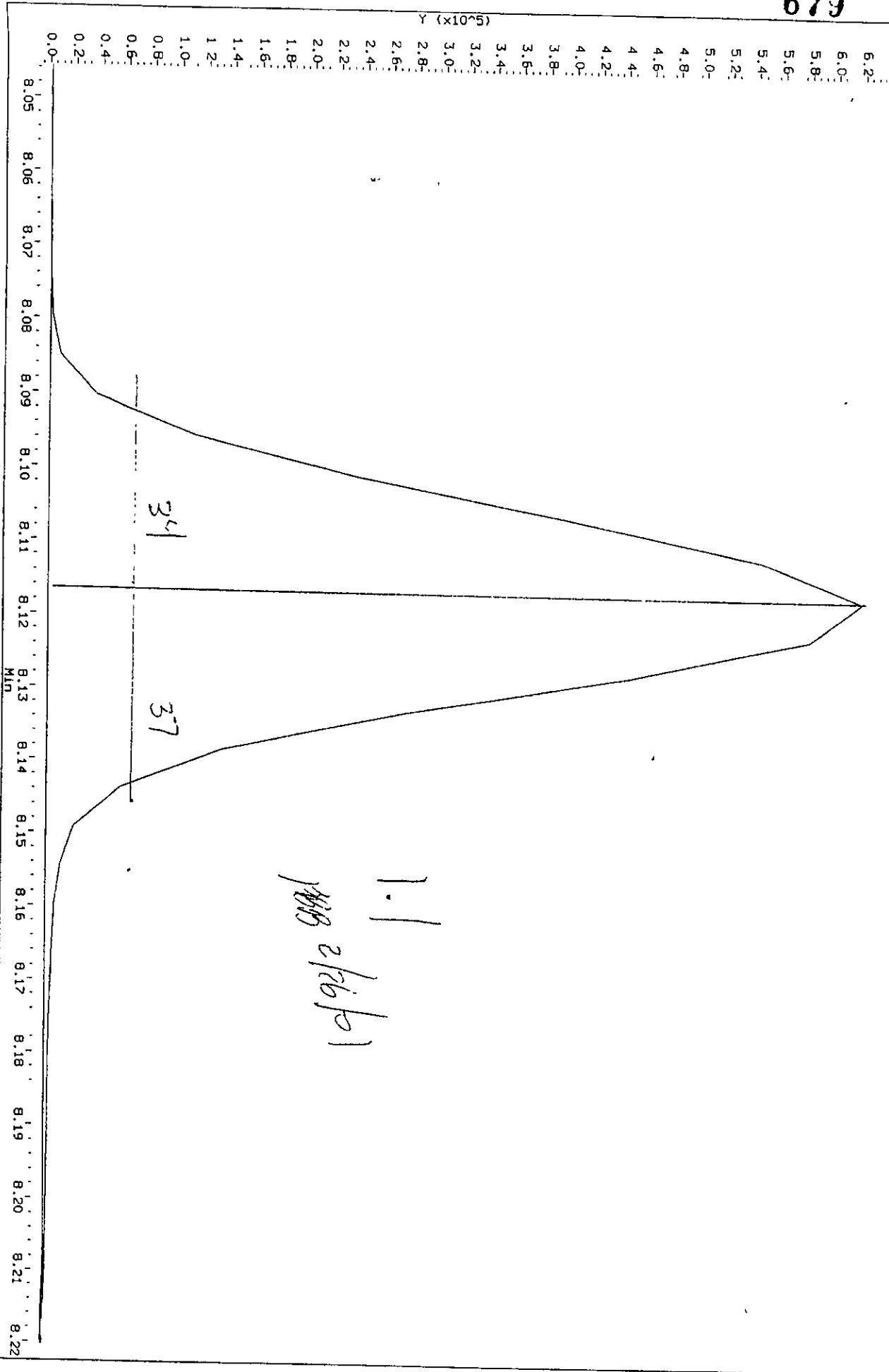
Data File: \\QPIPPA02\\chem\\722.1\\022601.b\\F02260F2.D
 Injection Date: 26-FEB-2001 10:46
 Instrument: 722.1
 Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 5.555 to 5.729 Min



Data File: \\QPI1P802\chem\722.1\022601.b\F0226DF2.D
 Injection Date: 26-FEB-2001 10:46
 Instrument: 722.1
 Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 8.046 to 8.220 Min



679 296

Page 3

Data File: \\QPITPA02\ID\chem\722.i\032701.b\F0327DF1.D

Date : 27-MAR-2001 11:48

Client ID: DFTPP02

Instrument: 722.1

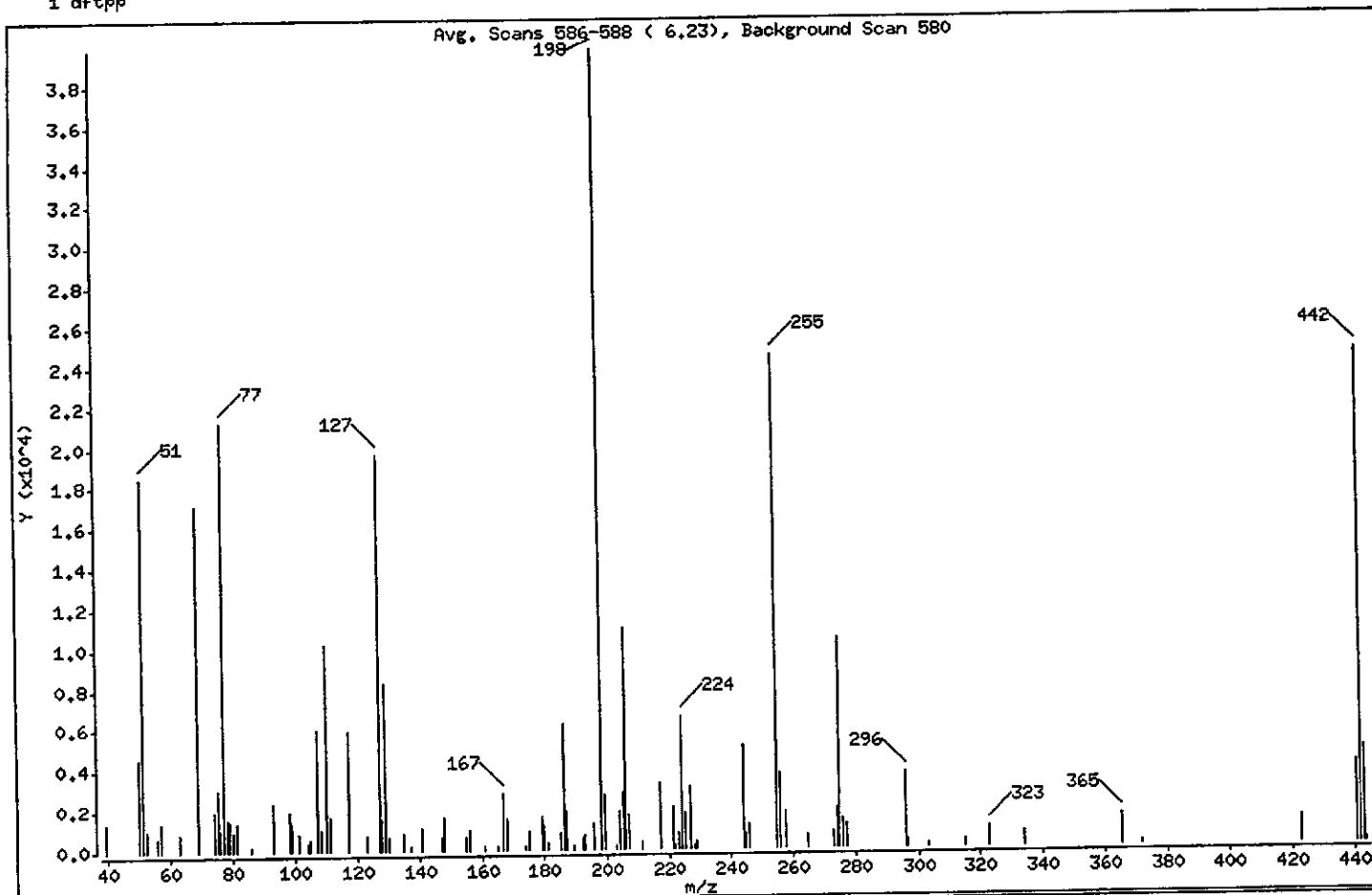
Sample Info: DFTPP050 (25ppb) 77/06/09

Operator: 007062

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	46.33
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.95
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.39
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 30.00% of mass 198	26.22
365	Greater than 1.00% of mass 198	3.80
441	Present, but less than mass 443	10.09
442	40.00 - 100.00% of mass 198	61.68
443	17.00 - 23.00% of mass 442	11.99 (19.45)

Data File: \\QIPITPA02\DV\chem\722.1\032701.b\F0327DF1.D

Date : 27-MAR-2001 11:48

Client ID: DFTPP02

Sample Info: DFTPP050 (25ppb) 77/06/09

Column phase:

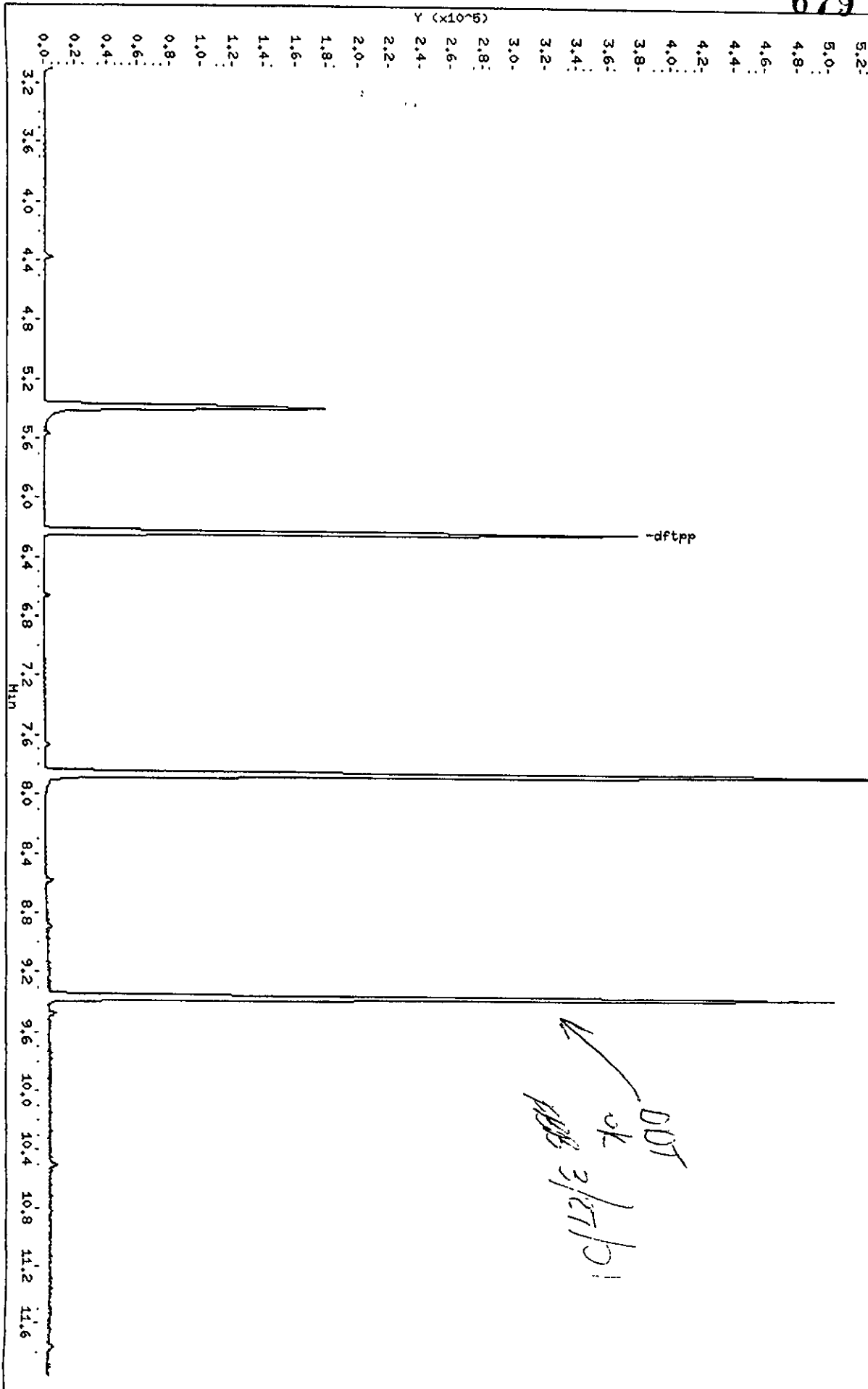
Instrument: 722.i

Operator: 007062

Column diameter: 2.00

\\QIPITPA02\DV\chem\722.1\032701.b\F0327DF1.D

679 297



Date : 27-MAR-2001 11:48

Client ID: DFTPP02

Instrument: 722.i

Sample Info: DFTPP050 (25ppb) 77/06/09

Operator: 007062

Column phase:

Column diameter: 2.00

Data File: F0327DF1.D

Spectrum: Avg. Scans 586-588 (6,23), Background Scan 580

Location of Maximum: 198.00

Number of points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y

39.00	1410	110.00	10287	186.00	6202	246.00	1223
50.00	4573	111.00	1676	187.00	1880	255.00	24536
51.00	18448	117.00	5910	189.00	188	256.00	3756
52.00	1044	123.00	698	192.00	585	258.00	1851
56.00	667	127.00	19664	193.00	707	265.00	680

57.00	1400	128.00	1597	196.00	1321	273.00	797
63.00	848	129.00	8304	198.00	39824	274.00	1989
69.00	17104	130.00	668	199.00	2731	275.00	10441
74.00	1963	135.00	793	203.00	167	276.00	1422
75.00	3019	137.00	179	204.00	1908	277.00	1160

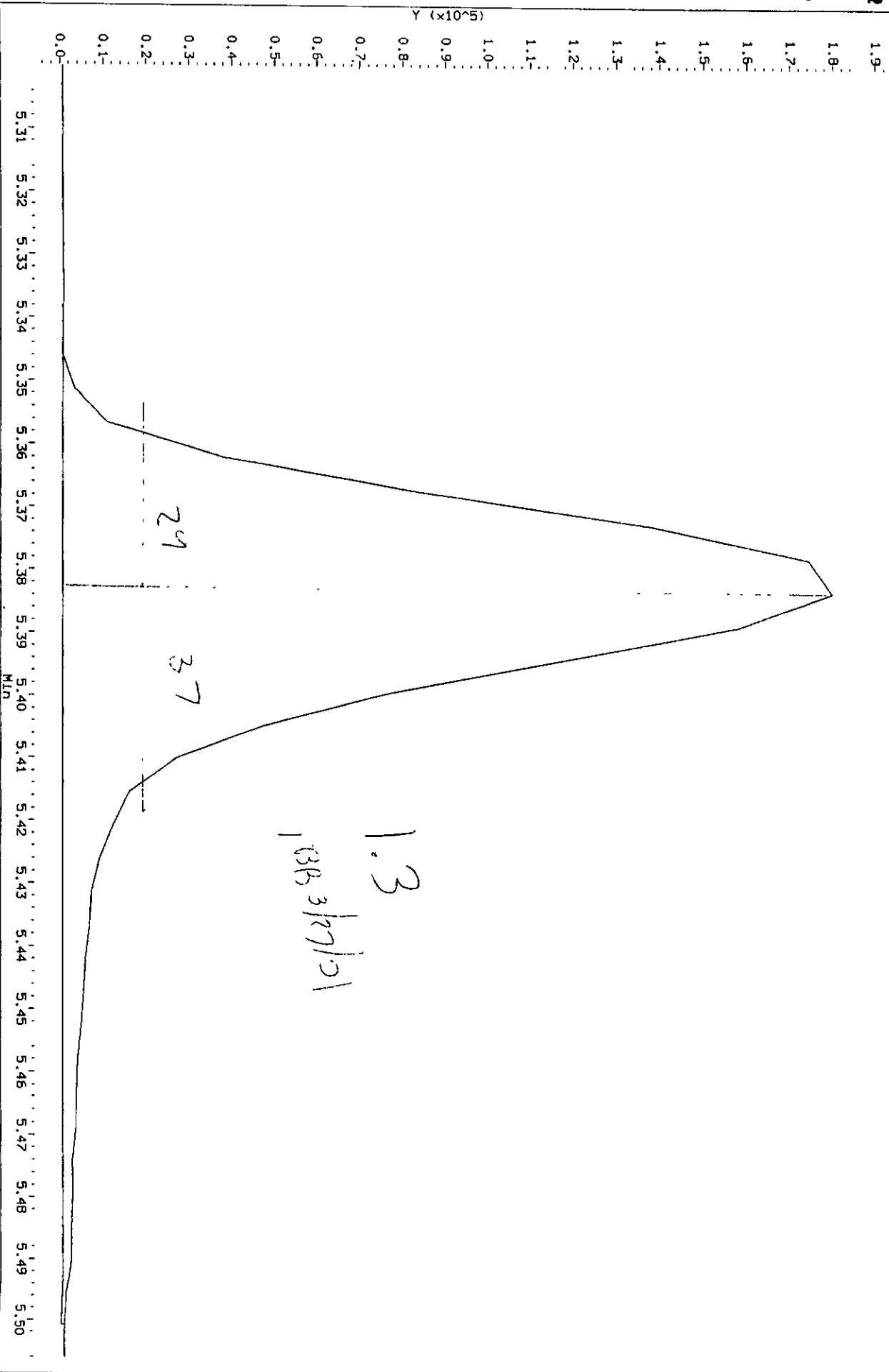
76.00	1046	141.00	1063	205.00	2817	296.00	3722
77.00	21280	147.00	597	206.00	10951	297.00	382
78.00	1548	148.00	1632	207.00	1703	303.00	168
79.00	1441	155.00	643	211.00	363	315.00	369
80.00	931	156.00	970	217.00	3252	323.00	996

81.00	1380	161.00	211	221.00	2111	334.00	688
86.00	207	165.00	183	222.00	220	365.00	1512
93.00	2343	167.00	2833	223.00	781	372.00	183
98.00	1909	168.00	1572	224.00	6633	423.00	1388
99.00	1406	174.00	190	225.00	1791	441.00	4017

101.00	819	175.00	876	227.00	3149	442.00	24560
104.00	374	179.00	1633	228.00	192	443.00	4777
105.00	583	180.00	1159	229.00	405	444.00	179
107.00	6084	181.00	389	244.00	5085		
108.00	966	185.00	851	245.00	710		

Data File: \\QF1TP02\4\chem\722.1\032701.b\F032701.D
 Injection Date: 27-MAR-2001 11:48
 Instrument: 722.1
 Client Sample ID: DFTPP02

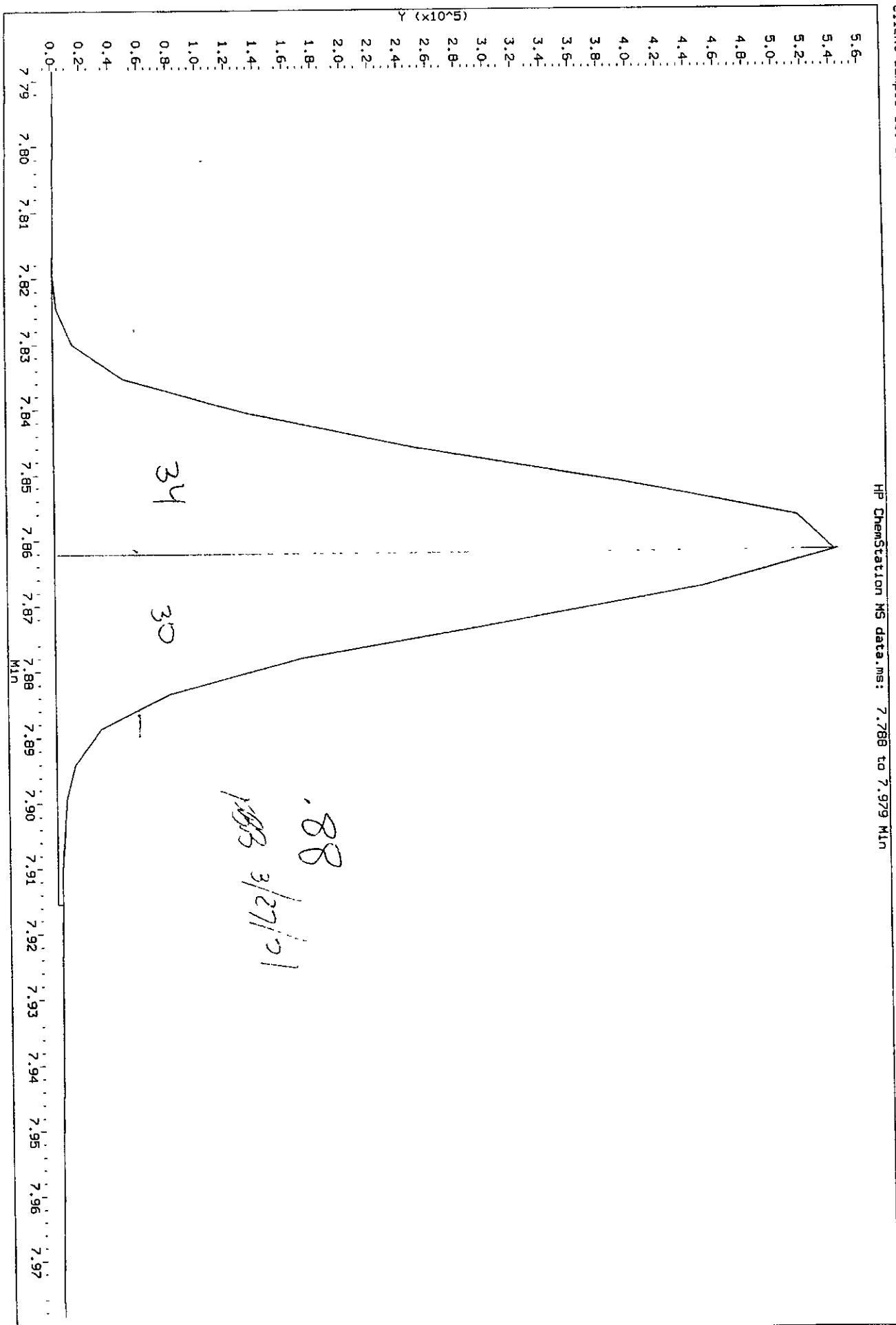
HP ChemStation MS data.ms: 5.300 to 5.506 Min



679 300

Data File: \\NPITPA02\\chem\\722.1\\032701.b\\F0327DF1.D
Injection Date: 27-MAR-2001 11:48
Instrument: 722.1
Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 7.788 to 7.979 Min



Date : 26-MAR-2001 08:27

Client ID: DFTPP02

Instrument: 722.i

679 301

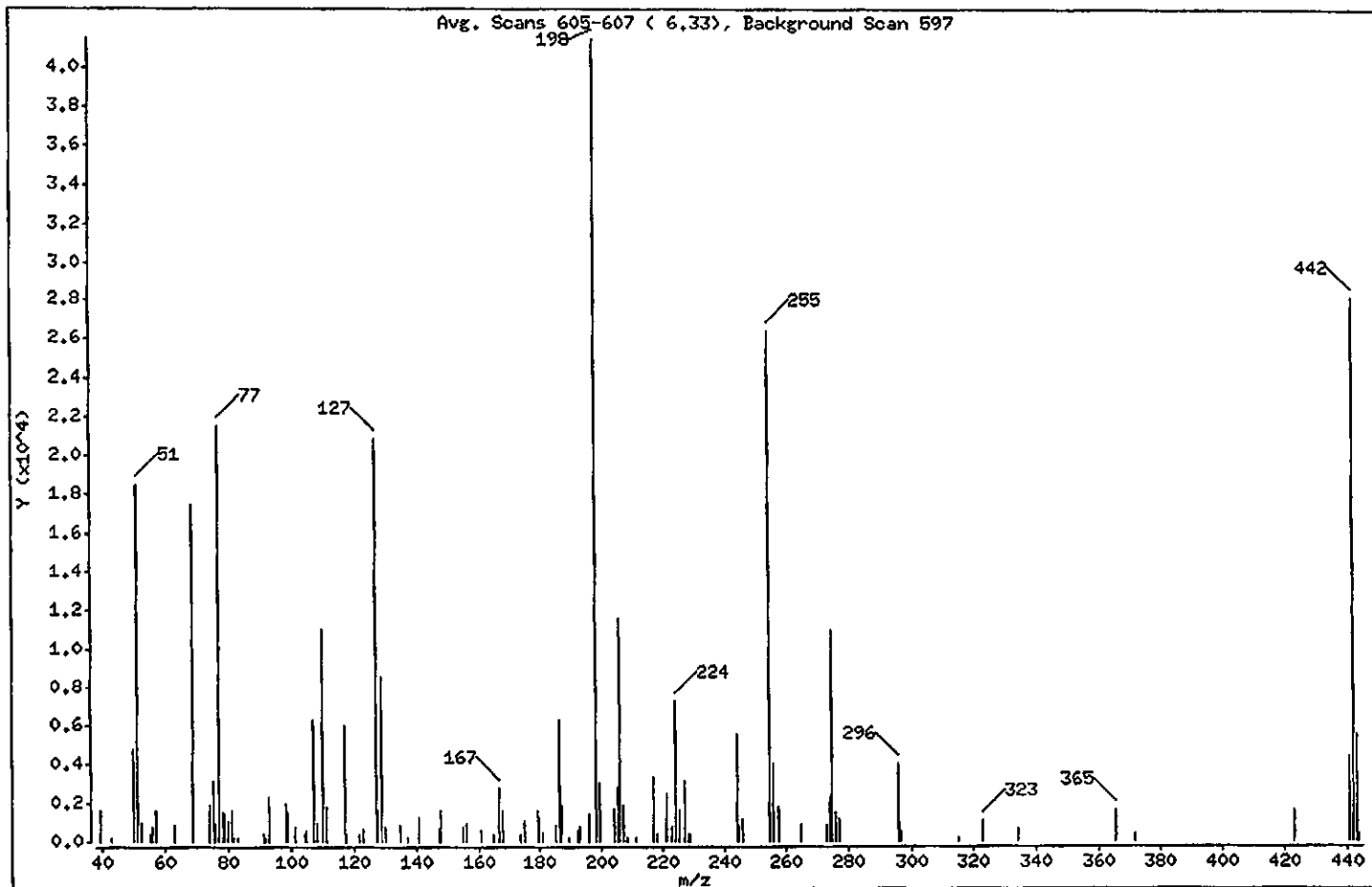
Sample Info: DFTPP050 (25ppb) 77/06/09

Operator: 007062

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	44.61
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.15
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	50.30
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.45
275	10.00 - 30.00% of mass 198	26.47
365	Greater than 1.00% of mass 198	4.01
441	Present, but less than mass 443	10.62
442	40.00 - 100.00% of mass 198	67.81
443	17.00 - 23.00% of mass 442	13.42 (19.79)

679 302

Data File: \\QPITPA02\B\chem\722.i\F032601.b\F0326DF1.D

Page 4

Date : 26-MAR-2001 08:27

Client ID: DFTPP02

Instrument: 722.i

Sample Info: DFTPP050 (25ppb) 77/06/09

Operator: 007062

Column phase:

Column diameter: 2.00

Data File: F0326DF1.D
 Spectrum: Avg. Scans 605-607 (6.33), Background Scan 597
 Location of Maximum: 198.00
 Number of points: 104

m/z	Y	m/z	Y	m/z	Y	m/z	Y

39.00	1582	105.00	583	180.00	1257	245.00	740
43.00	169	107.00	6339	181.00	463	246.00	1180
50.00	4725	108.00	967	185.00	815	255.00	26384
51.00	18504	110.00	11047	186.00	6262	256.00	4051
52.00	977	111.00	1770	187.00	1861	258.00	1804

55.00	383	117.00	6031	189.00	181	265.00	842
56.00	737	118.00	355	192.00	608	273.00	830
57.00	1628	122.00	380	193.00	742	274.00	2300
63.00	855	123.00	710	196.00	1413	275.00	10984
69.00	17488	127.00	20872	198.00	41496	276.00	1516

74.00	1901	128.00	1578	199.00	3091	277.00	1167
75.00	3144	129.00	8556	204.00	1754	296.00	3985
76.00	1001	130.00	790	205.00	2845	297.00	575
77.00	21528	135.00	822	206.00	11645	315.00	168
78.00	1516	137.00	184	207.00	1899	323.00	1060

79.00	1401	141.00	1230	208.00	198	334.00	715
80.00	1071	147.00	678	211.00	221	365.00	1662
81.00	1635	148.00	1606	217.00	3311	372.00	365
82.00	168	155.00	726	218.00	370	423.00	1613
83.00	216	156.00	999	221.00	2522	441.00	4409

91.00	363	161.00	605	223.00	764	442.00	28136
92.00	174	165.00	377	224.00	7244	443.00	5570
93.00	2316	167.00	2773	225.00	1666	444.00	347
98.00	2005	168.00	1576	227.00	3172		
99.00	1531	174.00	379	228.00	362		

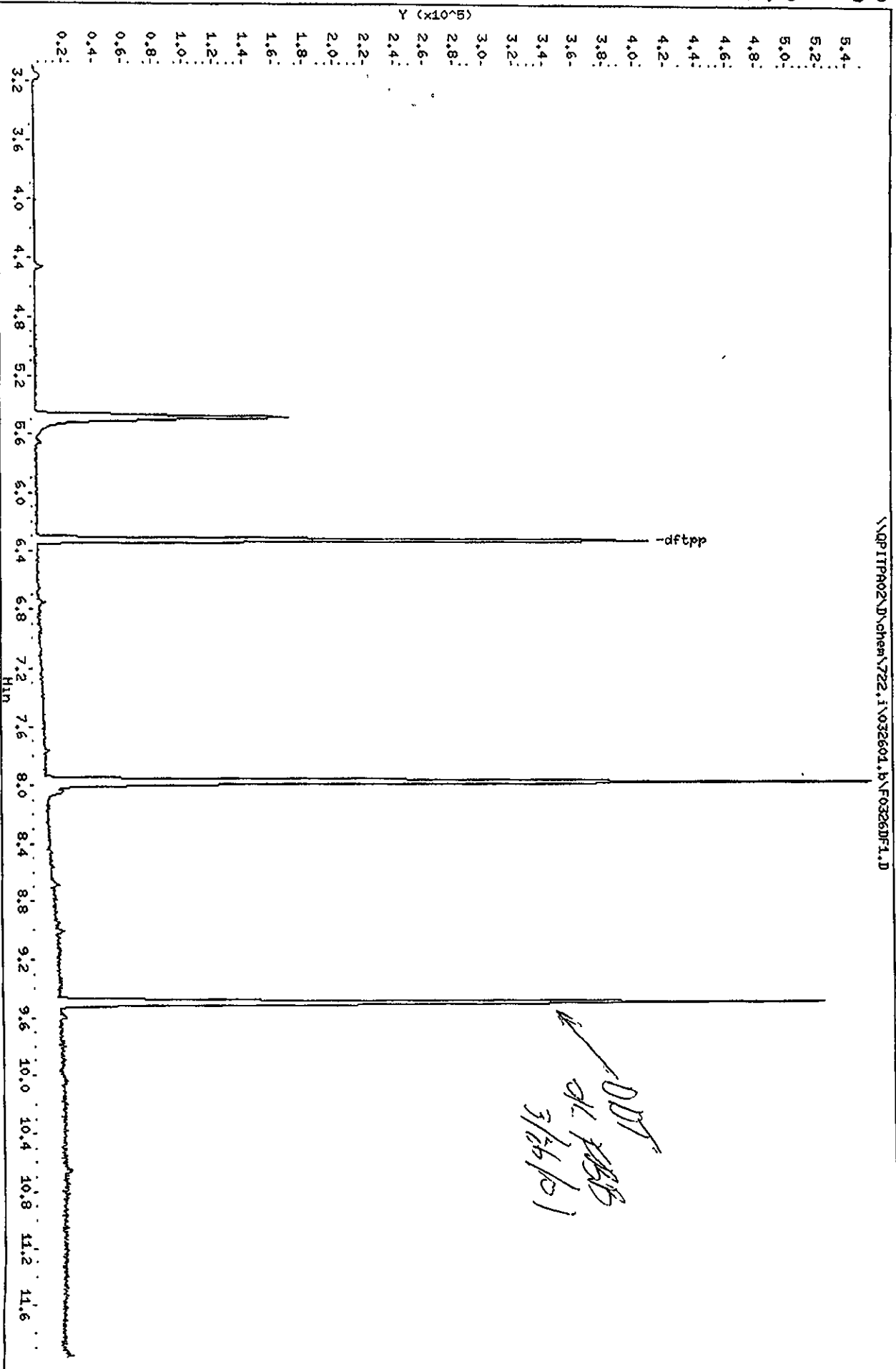
101.00	759	175.00	1094	229.00	412		
104.00	370	179.00	1613	244.00	5570		

Data File: \\QPI1P002\J\chem\722.1\032601.b\F0326DF1.D
 Date : 26-Mar-2004 08:27
 Client ID: DFTPP02
 Sample Info: DFTPP050 (25ppb) 77/06/09

Column phase:

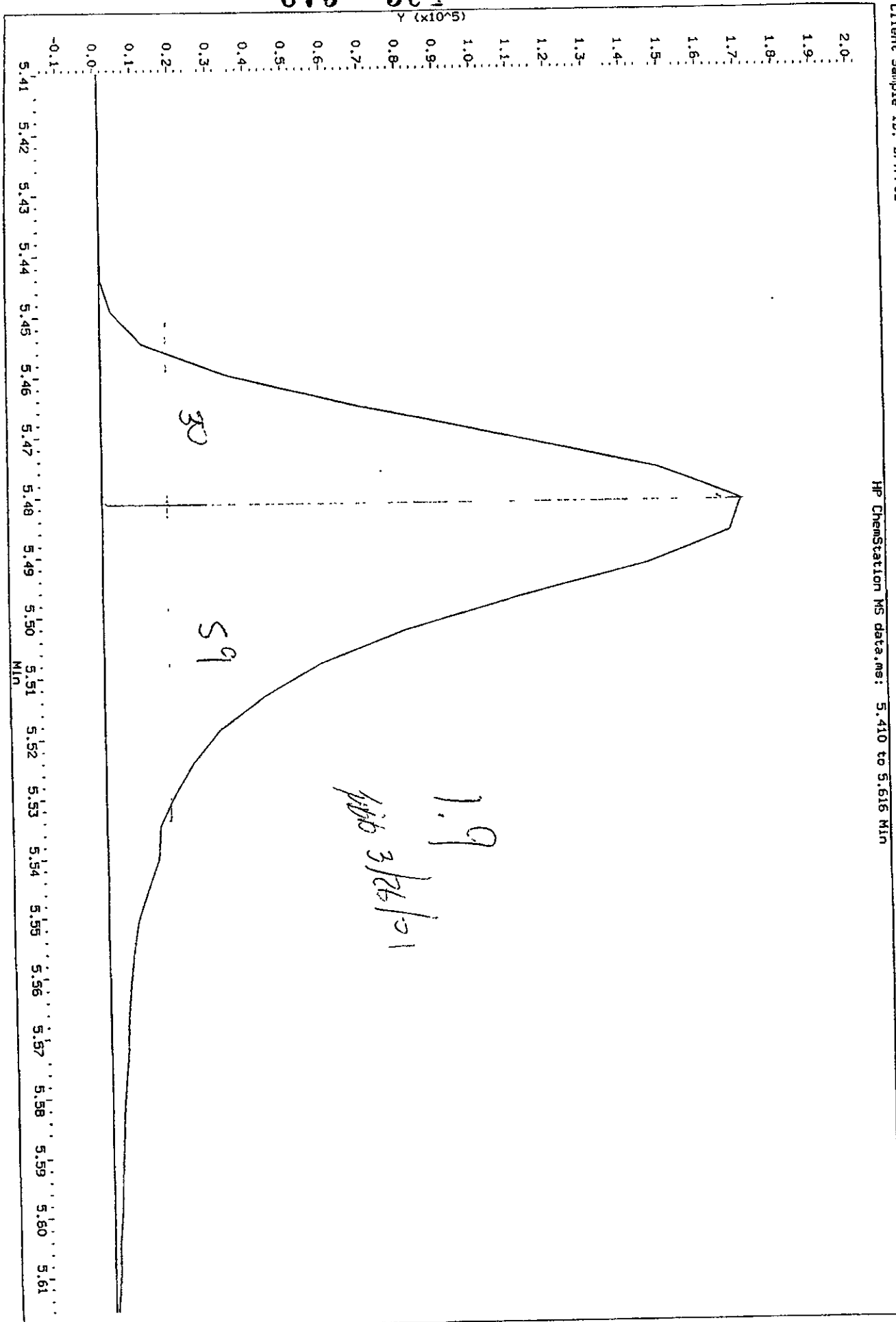
\\QPI1P002\J\chem\722.1\032601.b\F0326DF1.D

Instrument: 722.1
 Operator: 007062
 Column diameter: 2.00



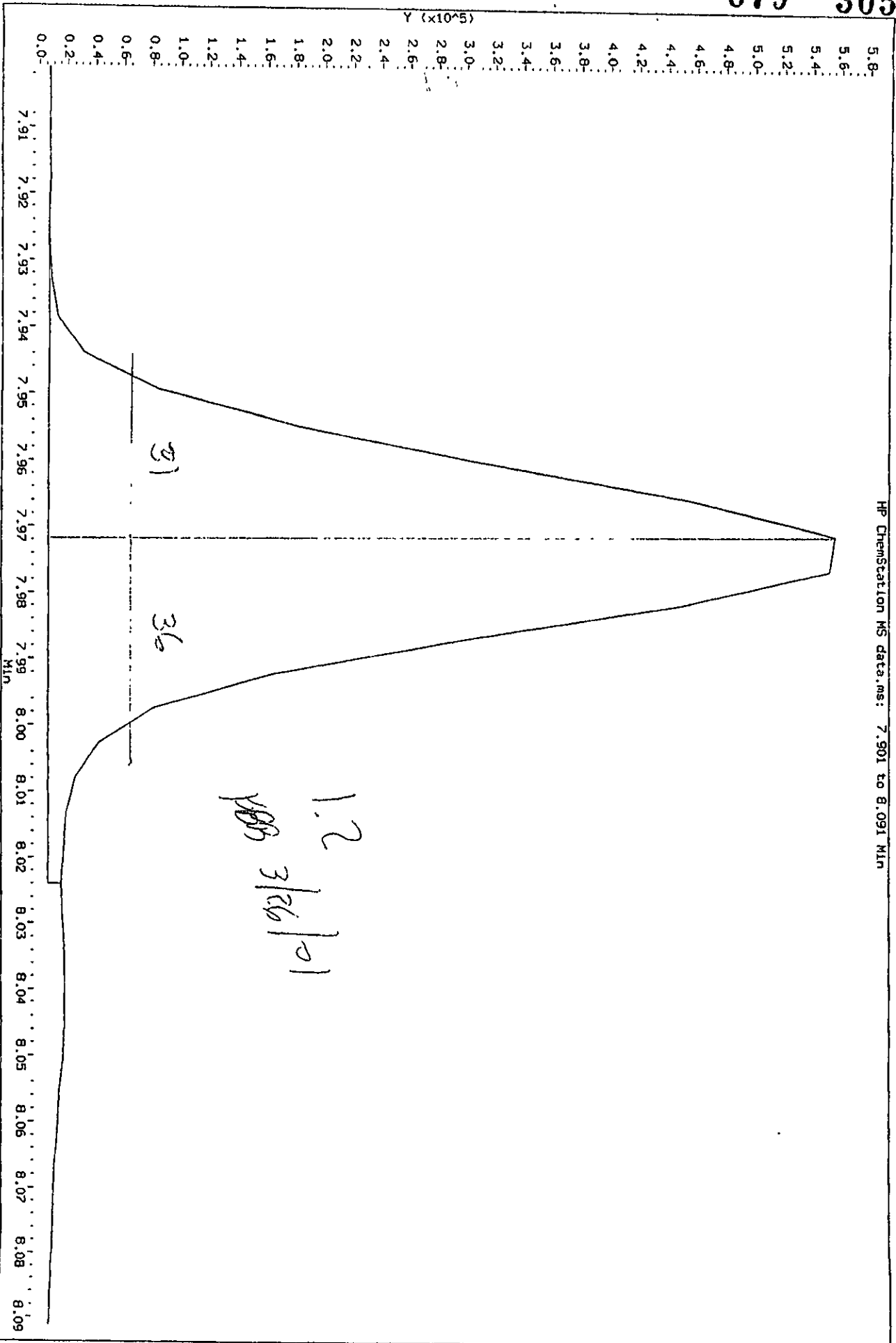
Data File: \\QPI1P02\chem\722.1\032601.b\F032601.1.D
 Injection Date: 26-MAR-2001 08:27
 Instrument: 722.1
 Client Sample ID: DFTP02

HP ChemStation MS data.ms: 5.410 to 5.616 Min



Data File: \\NPITPA02\\chem\\722.1\\032601.b\\0326DF1.D
 Injection Date: 26-MAR-2001 08:27
 Instrument: 722.1
 Client Sample ID: DFTFP02

HP ChemStation MS data.ms: 7.901 to 8.091 Min



679 305

679 306

Page 3

Data File: \\QPITPA02\N\chem\722.i\032601n.b\F0326DFN.D

Date : 26-MAR-2001 20:55

Client ID: DFTPP02

Instrument: 722.1

Sample Info: DFTPP050 (25ppb) 77/06/09

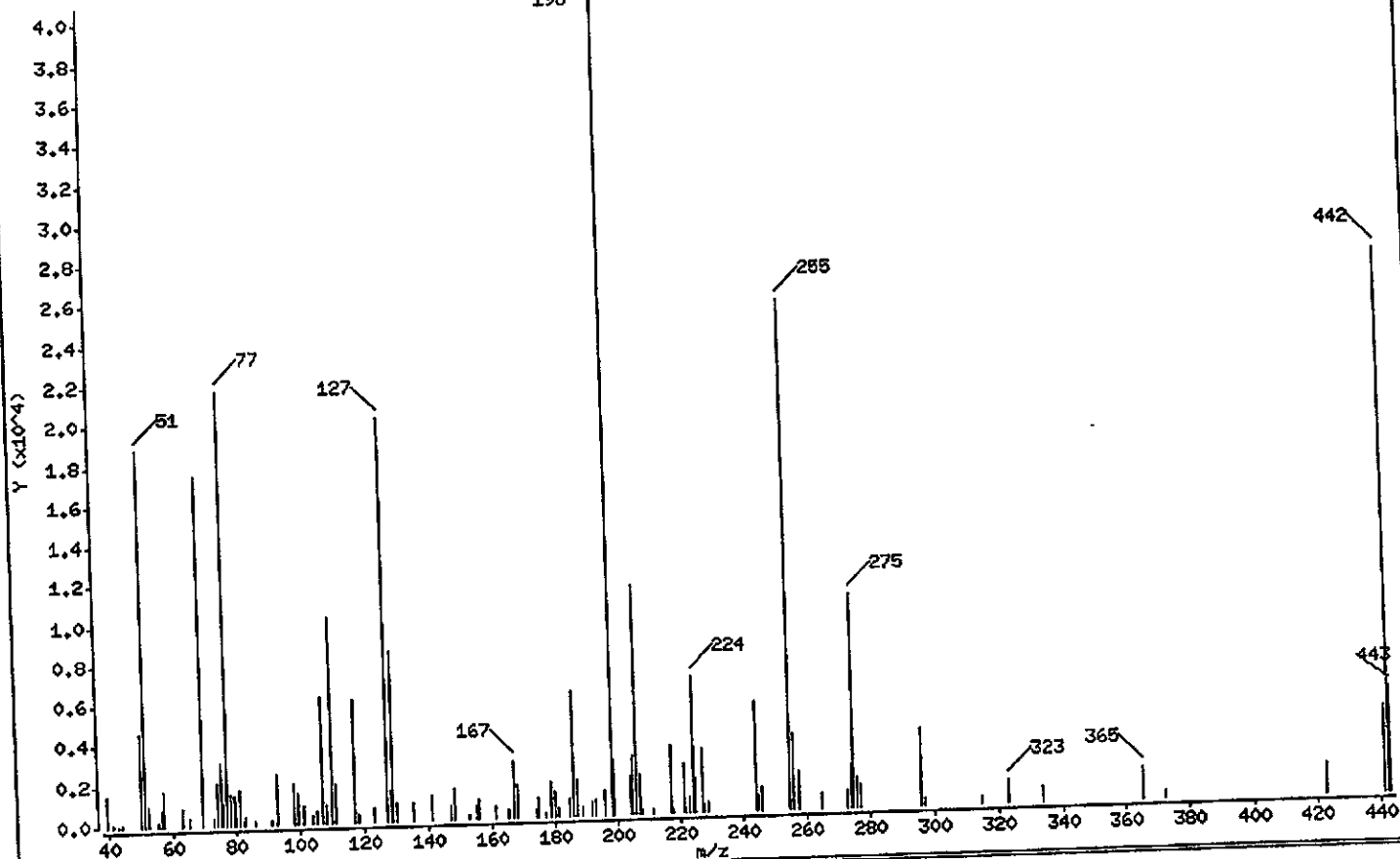
Operator: 007062

Column diameter: 2.00

Column phase:

1 dftpp

Avg. Scans 594-596 (6.27), Background Scan 587



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.07
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.89
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	49.32
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.70
275	10.00 - 30.00% of mass 198	26.30
365	Greater than 1.00% of mass 198	3.97
441	Present, but less than mass 443	10.68
442	40.00 - 100.00% of mass 198	66.96
443	17.00 - 23.00% of mass 442	12.77 (19.07)

Data File: \\QPITPA02\N\chem\722.i\032601n.b\F0326DFN.D

Page 4

Date : 26-MAR-2001 20:55

Client ID: DFTPP02

Instrument: 722.i

Sample Info: DFTPP050 (25ppb) 77/06/09

Operator: 007062

Column phase:

Column diameter: 2.00

Data File: F0326DFN.D

Spectrum: Avg. Scans 594-596 (6.27), Background Scan 587

Location of Maximum: 198.00

Number of points: 108

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1537	99.00	1473	177.00	184	229.00	436
41.00	88	101.00	871	179.00	1737	244.00	5424
43.00	7	104.00	390	180.00	1239	245.00	717
44.00	119	105.00	578	181.00	391	246.00	1125
50.00	4640	107.00	6252	185.00	877	255.00	25584
51.00	18832	108.00	892	186.00	6158	256.00	3798
52.00	970	110.00	10211	187.00	1777	258.00	1859
55.00	178	111.00	1925	189.00	358	265.00	714
56.00	772	117.00	6119	192.00	632	273.00	824
57.00	1694	118.00	376	193.00	722	274.00	2202
63.00	833	123.00	698	196.00	1268	275.00	10754
65.00	360	127.00	20168	198.00	40888	276.00	1484
69.00	17528	128.00	1538	199.00	2738	277.00	1098
73.00	357	129.00	8478	204.00	1925	296.00	3890
74.00	2027	130.00	800	205.00	2910	297.00	397
75.00	3144	135.00	891	206.00	11484	315.00	355
76.00	1056	141.00	1222	207.00	2013	323.00	1105
77.00	21696	147.00	695	208.00	204	334.00	717
78.00	1545	148.00	1503	211.00	173	365.00	1622
79.00	1422	153.00	167	217.00	3342	372.00	356
80.00	1097	155.00	688	218.00	167	423.00	1463
81.00	1699	156.00	951	221.00	2487	441.00	4366
82.00	190	161.00	610	222.00	192	442.00	27376
83.00	375	165.00	381	223.00	755	443.00	5222
86.00	178	167.00	2863	224.00	6805		
91.00	178	168.00	1585	225.00	1704		
93.00	2423	174.00	334	227.00	3206		
98.00	2000	175.00	945	228.00	353		

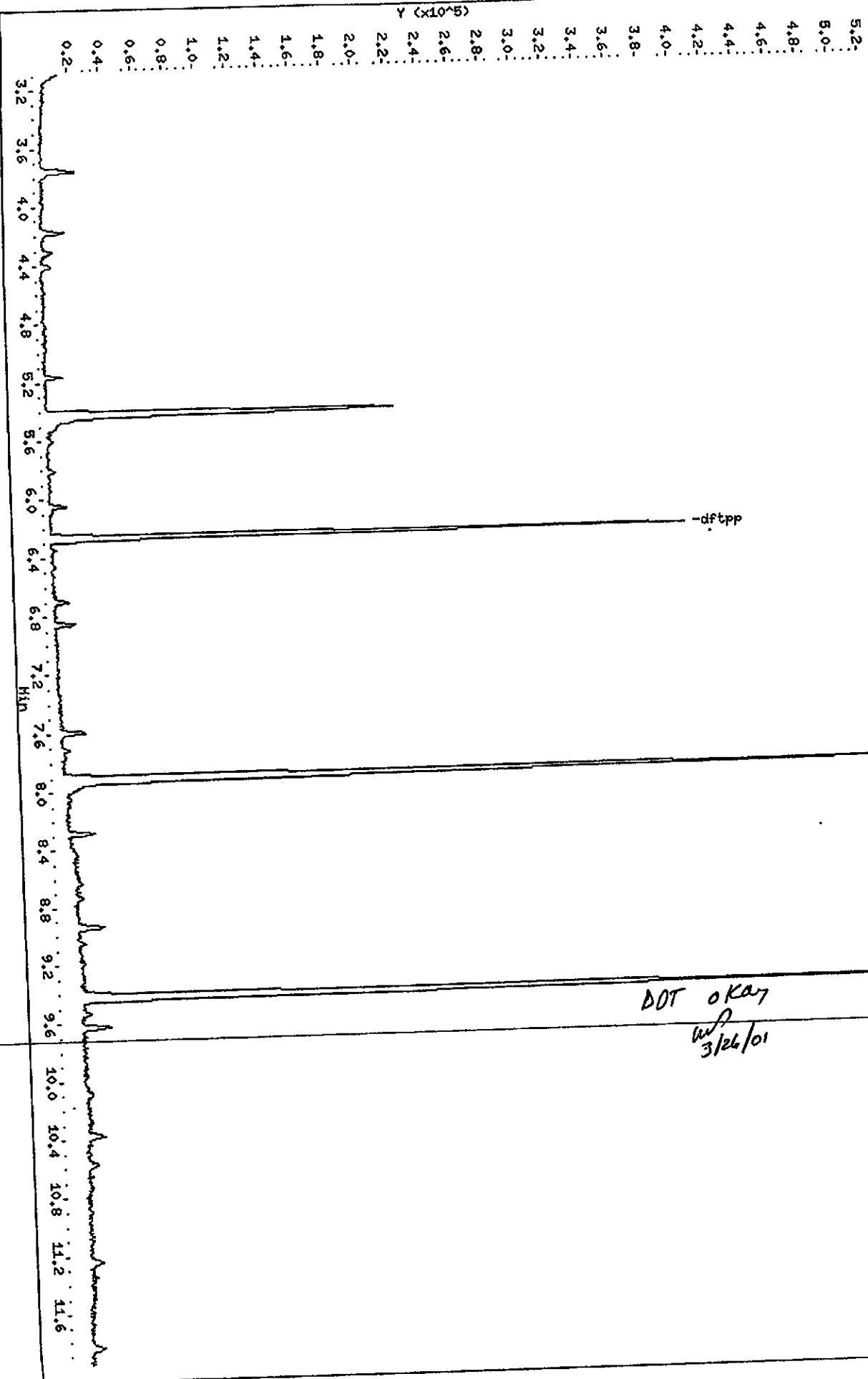
679 308

Data File: \\QIPITPA02\chem\722.1\032601n.b\F032601FN.D
Date: 26-MAR-2001 20:55
Client ID: DFTPP02
Sample Info: DFTPP050 (25ppb) 77/06/09

Column phase:

\\QIPITPA02\chem\722.1\032601n.b\F032601FN.D

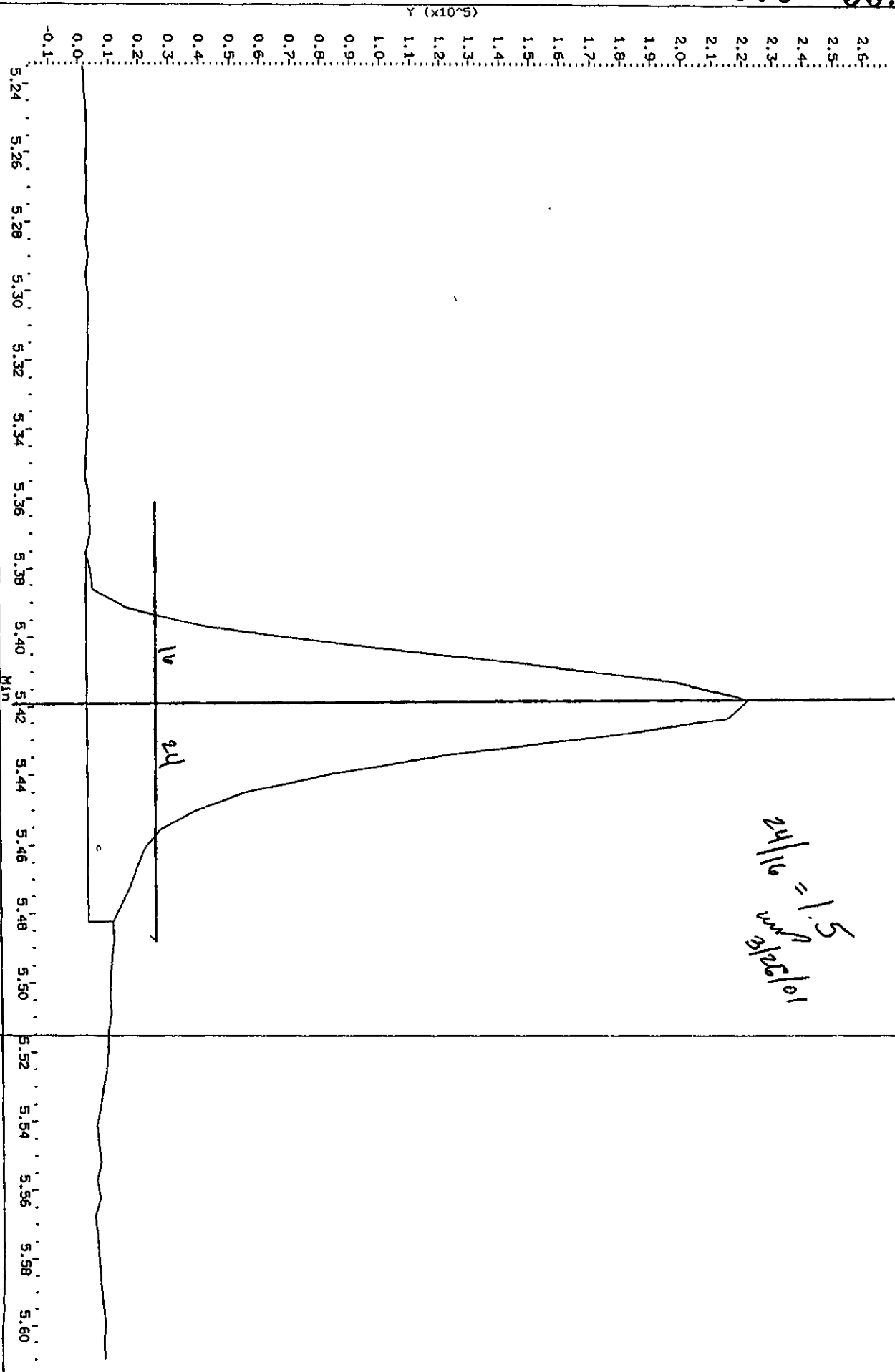
Instrument: 722.i
Operator: 007062
Column diameter: 2.00



Data File: \NPTFP02\chem\722_1\032601n.b\F0326DFN.D
 Injection Date: 26-MAR-2001 20:55
 Instrument: 722.1
 Client Sample ID: DTFP02

679 309

HP ChemStation MS data.ms: 5.235 to 5.610 Min

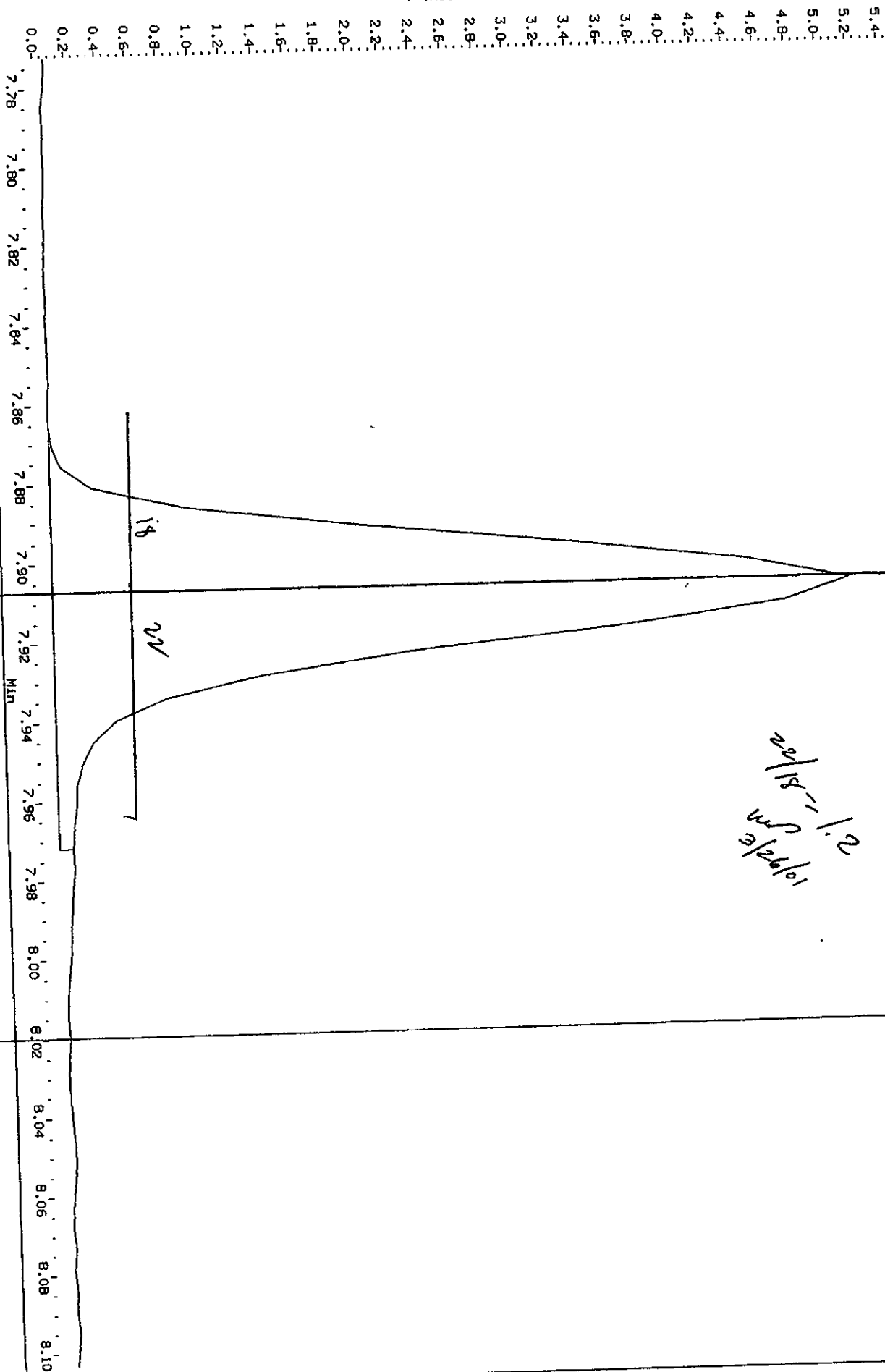


Data File: \\QPIPP402\\d\\chem\\722.1\\032601n.b\\032601n.D
 Injection Date: 26-MAR-2001 20:55
 Instrument: 722.1
 Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 7.773 to 8.104 Min

679 310

Y (x10⁻⁵)



UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C230000 316

Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXV8P1AA

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
110-86-1	Pyridine	20	U
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
86-74-8	Carbazole	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	50	U
120-83-2	2,4-Dichlorophenol	10	U

679 312

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C230000 316

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXV8P1AA

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: INTRA-LAB BLANK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
84-74-2	Di-n-butyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
51-28-5	2,4-Dinitrophenol	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	50	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	50	U
99-09-2	3-Nitroaniline	50	U
100-01-6	4-Nitroaniline	50	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	50	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

679 313

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 316

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXV8P1AA

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

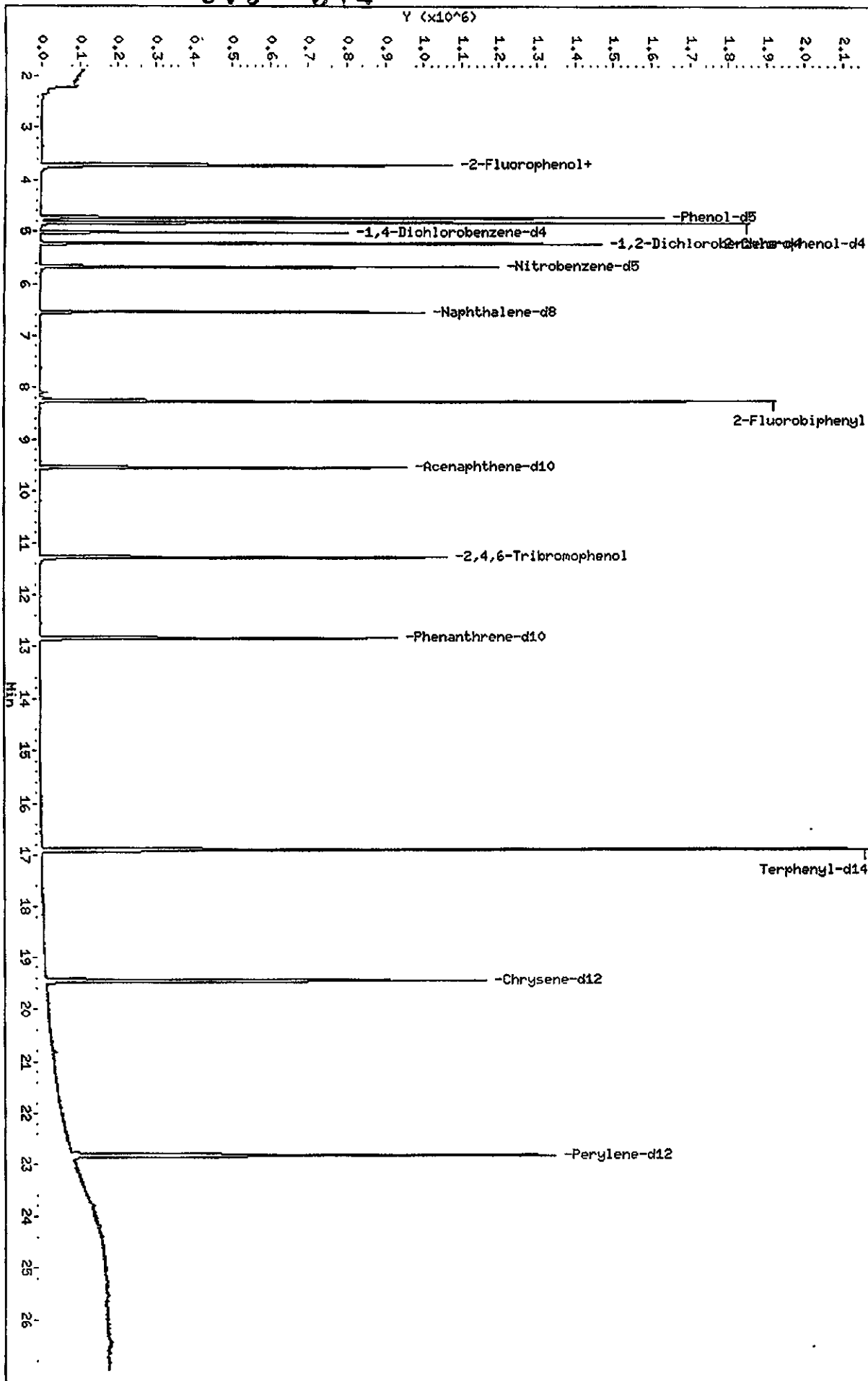
Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U

Data File: \\QPI1P002\J\chem\722.1\032601.b\F0326020.D
Date: 26-MAR-2001 14:23
Client ID: INTRA-LAB BLANK
Sample Info: C1C210184-BLK 3/22/01 H2O (1092316)
Volume Injected (uL): 2.0
Column phase: He5-MS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25

\\QPI1P002\J\chem\722.1\032601.b\F0326020.D



679 315

STL-Pittsburgh

Semivolatatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032601.b\F0326020.D
Lab Smp Id: DXV8P1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 26-MAR-2001 14:23
Operator : 007062 Inst ID: 722.i
Smp Info : C1C210184-BLK 3/22/01 H2O (1082316)
Misc Info : dxv8plaa,032601.b,8270b.m,2-root.sub
Comment :
Method : \\QPITPA02\D\chem\722.i\032601.b\8270b.m
Meth Date : 26-Mar-2001 09:54 bungardf Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC062

WJL
3/26/01

Compound Sublist: 2-root.sub

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

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

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.019	5.018	(1.000)	169013	40.0000	(Q)
* 2 Naphthalene-d8	136	6.536	6.546	(1.000)	677713	40.0000	
* 3 Acenaphthene-d10	164	9.549	9.559	(1.000)	408686	40.0000	
* 4 Phenanthrene-d10	188	12.840	12.855	(1.000)	786374	40.0000	
* 5 Chrysene-d12	240	19.459	19.484	(1.000)	1034279	40.0000	
* 6 Perylene-d12	264	22.813	22.834	(1.000)	1205693	40.0000	
10 N-Nitrosodimethylamine	74	Compound Not Detected.					
9 Pyridine	79	Compound Not Detected.					
16 Methyl methanesulfonate	80	Compound Not Detected.					
21 Aniline	93	Compound Not Detected.					
22 Phenol	94	Compound Not Detected.					
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
24 2-Chlorophenol	128	Compound Not Detected.					

679 316

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
26 1,3-Dichlorobenzene	146				Compound Not Detected.		
27 1,4-Dichlorobenzene	146				Compound Not Detected.		
28 1,2-Dichlorobenzene	146				Compound Not Detected.		
29 Benzyl Alcohol	108				Compound Not Detected.		
30 2-Methylphenol	108				Compound Not Detected.		
31 2,2'-oxybis(1-Chloropropane)	45				Compound Not Detected.		
32 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
192 4-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
41 Isophorone	82				Compound Not Detected.		
42 2-Nitrophenol	139				Compound Not Detected.		
43 2,4-Dimethylphenol	107				Compound Not Detected.		
44 bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
48 2,4-Dichlorophenol	162				Compound Not Detected.		
49 Benzoic Acid	122				Compound Not Detected.		
50 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
51 Naphthalene	128				Compound Not Detected.		
52 4-Chloroaniline	127				Compound Not Detected.		
56 Hexachlorobutadiene	224				Compound Not Detected.		
59 4-Chloro-3-Methylphenol	107				Compound Not Detected.		
62 2-Methylnaphthalene	142				Compound Not Detected.		
205 1-Methylnaphthalene	142				Compound Not Detected.		
64 Hexachlorocyclopentadiene	236				Compound Not Detected.		
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
70 2-Chloronaphthalene	162				Compound Not Detected.		
73 2-Nitroaniline	65				Compound Not Detected.		
76 Dimethylphthalate	163				Compound Not Detected.		
78 2,6-Dinitrotoluene	165				Compound Not Detected.		
79 Acenaphthylene	152				Compound Not Detected.		
81 3-Nitroaniline	138				Compound Not Detected.		
82 Acenaphthene	153				Compound Not Detected.		
83 2,4-Dinitrophenol	184				Compound Not Detected.		
85 4-Nitrophenol	109				Compound Not Detected.		
86 Dibenzofuran	168				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
91 2,3,5,6-Tetrachlorophenol	232				Compound Not Detected.		
88 2,3,4,6-Tetrachlorophenol	232				Compound Not Detected.		
92 2-Naphthylamine	143				Compound Not Detected.		
93 Diethylphthalate	149				Compound Not Detected.		
94 Fluorene	166				Compound Not Detected.		
95 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
96 4-Nitroaniline	138				Compound Not Detected.		
98 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
99 N-Nitrosodiphenylamine	169				Compound Not Detected.		
100 1,2-Diphenylhydrazine	77				Compound Not Detected.		

679 317

Compounds	QUANT SIG - MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	265				Compound Not Detected.		
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
123 Fluoranthene	202				Compound Not Detected.		
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202				Compound Not Detected.		
131 Butylbenzylphthalate	149				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228				Compound Not Detected.		
137 Chrysene	228				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149				Compound Not Detected.		
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
143 7,12-dimethylbenz[a]anthracen	256				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.671	5.675	(0.868)	525025	80.9824	40.5
\$ 155 2-Fluorobiphenyl	172	8.267	8.277	(0.866)	987261	82.6824	41.3
\$ 156 Terphenyl-d14	244	16.905	16.915	(0.869)	1603890	79.4883	39.7
\$ 157 Phenol-d5	99	4.730	4.729	(0.943)	835489	114.977	57.5
\$ 158 2-Fluorophenol	112	3.715	3.698	(0.740)	632390	114.935	57.5
\$ 159 2,4,6-Tribromophenol	330	11.285	11.300	(0.879)	222270	109.801	54.9
\$ 186 2-Chlorophenol-d4	132	4.826	4.826	(0.962)	697213	127.743	63.9
\$ 187 1,2-Dichlorobenzene-d4	152	5.227	5.226	(1.042)	294623	83.6940	41.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.

679 318

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 316

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXV8P1AC

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

Client Sample Id: CHECK SAMPLE

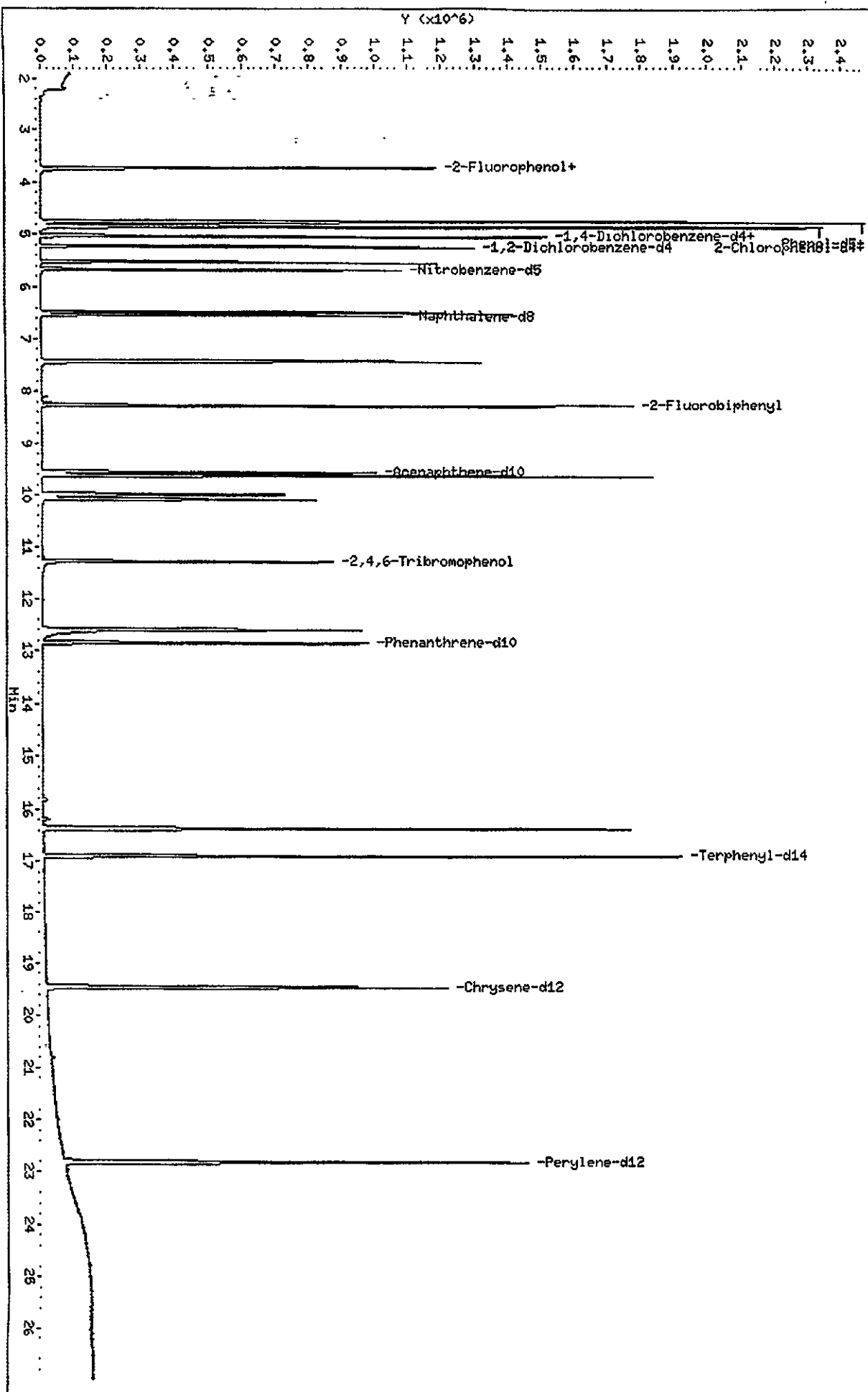
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	37.4	
59-50-7	4-Chloro-3-methylphenol	56.0	
95-57-8	2-Chlorophenol	57.1	
106-46-7	1,4-Dichlorobenzene	36.8	
121-14-2	2,4-Dinitrotoluene	35.7	
100-02-7	4-Nitrophenol	52.1	
621-64-7	N-Nitrosodi-n-propylamine	36.5	
87-86-5	Pentachlorophenol	56.8	
108-95-2	Phenol	53.3	
129-00-0	Pyrene	32.6	
120-82-1	1,2,4-Trichlorobenzene	36.8	

FORM I

Data File: \\QPITP002\Jchem\722.1\032601.b\F0326009.D
Date : 26-MAR-2001 14:56
Client ID: INT89-LAB CHECK
Sample Info: CAC210184-LCS 3/22/01 H2O (1082316)
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25

\\QPITP002\Jchem\722.1\032601.b\F0326009.D



679 320

STL-Pittsburgh

Semivolatatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032601.b\F0326009.D
Lab Smp Id: DXV8P1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 26-MAR-2001 14:56
Operator : 007062 Inst ID: 722.i
Smp Info : C1C210184-LCS 3/22/01 H2O (1082316)
Misc Info : dxv8plac,032601.b,8270b.m,2-root.sub
Comment :
Method : \\QPITPA02\d\chem\722.i\032601.b\8270b.m
Meth Date : 26-Mar-2001 09:54 bungardf Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

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

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

		QUANT SIG				CONCENTRATIONS		
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (ug/L)
*****		----	--	-----	-----	-----	-----	-----
*	1 1,4-Dichlorobenzene-d4	152	5.024	5.018	(1.000)	173405	40 0000	
*	2 Naphthalene-d8	136	6.541	6.546	(1.000)	708922	40.0000	
*	3 Acenaphthene-d10	164	9.549	9.559	(1.000)	420820	40 0000	
*	4 Phenanthrene-d10	188	12.840	12.855	(1.000)	805252	40.0000	
*	5 Chrysene-d12	240	19.459	19.484	(1.000)	1078648	40 0000	
*	6 Perylene-d12	264	22.813	22.834	(1.000)	1282614	40.0000	
	10 N-Nitrosodimethylamine	74	Compound Not Detected.					
	9 Pyridine	79	Compound Not Detected.					
	16 Methyl methanesulfonate	80	Compound Not Detected.					
	21 Aniline	93	Compound Not Detected.					
	22 Phenol	94	4.752	4.740	(0.946)	802115	106.690	53.3 (Q)
	23 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	24 2-Chlorophenol	128	4.848	4.842	(0.965)	630575	114.121	57.1
	26 1,3-Dichlorobenzene	146	Compound Not Detected.					

679 321

Compounds	QUANT SIG MASS =====	RT ==	EXP RT =====	REL RT =====	RESPONSE =====	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
27 1,4-Dichlorobenzene	146	5.040	5.034	(1.003)	463736	73.6053	36.8
28 1,2-Dichlorobenzene	146				Compound Not Detected.		
29 Benzyl Alcohol	108				Compound Not Detected.		
30 2-Methylphenol	108				Compound Not Detected.		
31 2,2'-oxybis(1-Chloropropane)	45				Compound Not Detected.		
32 N-Nitroso-di-n-propylamine	70	5.526	5.531	(1.100)	341381	72.9306	36.5
192 4-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
41 Isophorone	82				Compound Not Detected.		
42 2-Nitrophenol	139				Compound Not Detected.		
43 2,4-Dimethylphenol	107				Compound Not Detected.		
44 bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
48 2,4-Dichlorophenol	162				Compound Not Detected.		
49 Benzoic Acid	122				Compound Not Detected.		
50 1,2,4-Trichlorobenzene	180	6.488	6.492	(0.992)	388147	73.7067	36.8
51 Naphthalene	128				Compound Not Detected.		
52 4-Chloroaniline	127				Compound Not Detected.		
56 Hexachlorobutadiene	224				Compound Not Detected.		
59 4-Chloro-3-Methylphenol	107	7.423	7.438	(1.135)	603319	111.915	56.0
62 2-Methylnaphthalene	142				Compound Not Detected.		
205 1-Methylnaphthalene	142				Compound Not Detected.		
64 Hexachlorocyclopentadiene	236				Compound Not Detected.		
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
70 2-Chloronaphthalene	162				Compound Not Detected.		
73 2-Nitroaniline	65				Compound Not Detected.		
76 Dimethylphthalate	163				Compound Not Detected.		
78 2,6-Dinitrotoluene	165				Compound Not Detected.		
79 Acenaphthylene	152				Compound Not Detected.		
81 3-Nitroaniline	138				Compound Not Detected.		
82 Acenaphthene	153	9.613	9.628	(1.007)	828733	74.7737	37.4
83 2,4-Dinitrophenol	184				Compound Not Detected.		
85 4-Nitrophenol	109	9.982	9.986	(1.045)	219476	104.193	52.1(Q)
86 Dibenzofuran	168				Compound Not Detected.		
87 2,4-Dinitrotoluene	165	10.072	10.088	(1.055)	294560	71.3689	35.7
91 2,3,5,6-Tetrachlorophenol	232				Compound Not Detected.		
88 2,3,4,6-Tetrachlorophenol	232				Compound Not Detected.		
92 2-Naphthylamine	143				Compound Not Detected.		
93 Diethylphthalate	149				Compound Not Detected.		
94 Fluorene	166				Compound Not Detected.		
95 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
96 4-Nitroaniline	138				Compound Not Detected.		
98 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
99 N-Nitrosodiphenylamine	169				Compound Not Detected.		
100 1,2-Diphenylhydrazine	77				Compound Not Detected.		
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		

679 322

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
-----	----	--	-----	-----	-----	-----	-----
107 Hexachlorobenzene	283				Compound Not Detected		
111 Pentachlorophenol	266	12.589	12.609	(0.980)	315500	113.686	56.8
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
123 Fluoranthene	202				Compound Not Detected.		
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202	16.371	16.386	(0.841)	1729844	65.2999	32.6
131 Butylbenzylphthalate	149				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228				Compound Not Detected.		
137 Chrysene	228				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149				Compound Not Detected.		
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
143 7,12-dimethylbenz[a]anthracene	256				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.676	5.675	(0.868)	492062	72.5568	36.3
\$ 155 2-Fluorobiphenyl	172	8.267	8.277	(0.866)	908711	73.9095	37.0
\$ 156 Terphenyl-d14	244	16.900	16.915	(0.868)	1438010	68.3358	34.2
\$ 157 Phenol-d5	99	4.741	4.729	(0.944)	776853	104.200	52.1
\$ 158 2-Fluorophenol	112	3.726	3.698	(0.742)	590618	104.624	52.3
\$ 159 2,4,6-Tribromophenol	330	11.285	11.300	(0.879)	188633	90.9999	45.5
\$ 186 2-Chlorophenol-d4	132	4.832	4.826	(0.962)	645071	115.196	57.6
\$ 187 1,2-Dichlorobenzene-d4	152	5.227	5.226	(1.040)	268544	74.3535	37.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

679 323

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C230000 316

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXV8P1AD

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/26/01

Moisture %: NA

QC Batch: 1082316

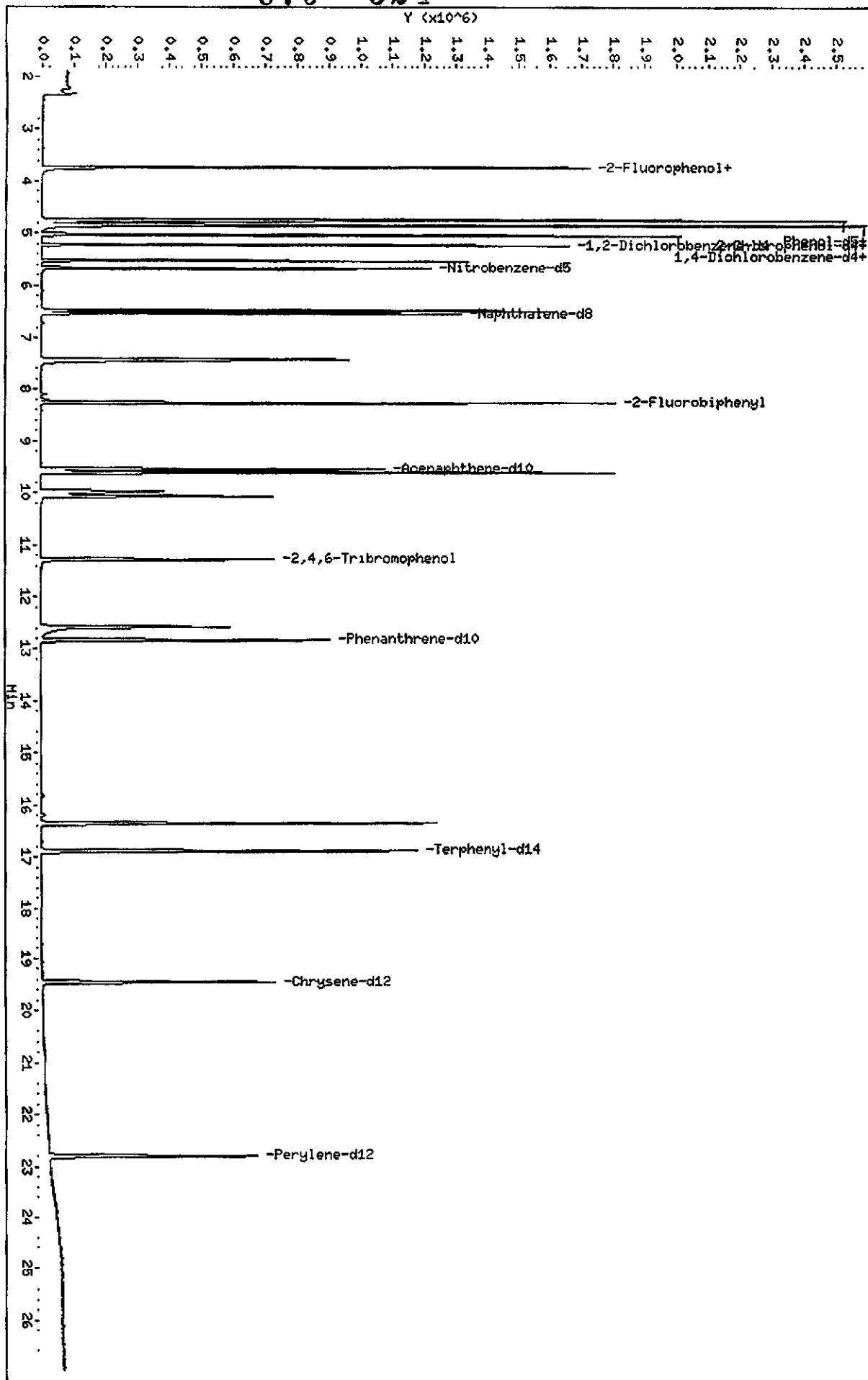
Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	32.8	
59-50-7	4-Chloro-3-methylphenol	44.1	
95-57-8	2-Chlorophenol	48.1	
106-46-7	1,4-Dichlorobenzene	32.8	
121-14-2	2,4-Dinitrotoluene	27.6	
100-02-7	4-Nitrophenol	35.3	p
621-64-7	N-Nitrosodi-n-propylamine	30.3	
87-86-5	Pentachlorophenol	35.9	
108-95-2	Phenol	44.3	
129-00-0	Pyrene	36.7	
120-82-1	1,2,4-Trichlorobenzene	33.5	

Data File: \\QPI1P002\J\chem\722.1\032601n.b\F0326068.D
 Date: 26-MAR-2004 23:56
 Client ID: INTRA-LAB CHECK
 Sample Info: C1C210184-LCSD 3/22/04 H2O (1082316)
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

Instrument: 722.i
 Operator: 007062
 Column diameter: 0.25

\\QPI1P002\J\chem\722.1\032601n.b\F0326068.D



679 325

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\032601n.b\F0326068.D
Lab Smp Id: DXV8P1AD Client Smp ID: INTRA-LAB CHECK
Inj Date : 26-MAR-2001 23:56
Operator : 007062 Inst ID: 722.i
Smp Info : C1C210184-LCSD 3/22/01 H2O (1082316)
Misc Info : dxv8plad,032601n.b,8270b.m,2-root.sub
Comment :
Method : \\QPITPA02\D\chem\722.i\032601n.b\8270b.m
Meth Date : 26-Mar-2001 22:16 tapsvc Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 21 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

1/18
3/27/01

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	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 (NG)	FINAL (ug/L)
1 1,4-Dichlorobenzene-d4	152	5.023	5.008	(1.000)	219145	40.0000	
2 Naphthalene-d8	136	6.540	6.525	(1.000)	858965	40.0000	
3 Acenaphthene-d10	164	9.542	9.528	(1.000)	465067	40.0000	
4 Phenanthrene-d10	188	12.833	12.818	(1.000)	745424	40.0000	
5 Chrysene-d12	240	19.452	19.437	(1.000)	648624	40.0000	
6 Perylene-d12	264	22.807	22.787	(1.000)	593440	40.0000	
10 N-Nitrosodimethylamine	74				Compound Not Detected		
9 Pyridine	79				Compound Not Detected.		
16 Methyl methanesulfonate	80				Compound Not Detected.		
21 Aniline	93				Compound Not Detected		
22 Phenol	94	4.750	4.730	(0.946)	842440	88.6655	44.3 (Q)
23 bis(2-Chloroethyl)ether	93				Compound Not Detected		
24 2-Chlorophenol	128	4.847	4.832	(0.965)	672257	96.2709	48.1
26 1,3-Dichlorobenzene	146				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
*****	----	--	-----	-----	-----	-----	-----
27 1,4-Dichlorobenzene	146	5.039	5.024	(1.003)	521746	65.5281	32.8
28 1,2-Dichlorobenzene	146	Compound Not Detected.					
29 Benzyl Alcohol	108	Compound Not Detected.					
30 2-Methylphenol	108	Compound Not Detected.					
31 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
32 N-Nitroso-di-n-propylamine	70	5.525	5.516	(1.100)	358219	60.5549	30.3
192 4-Methylphenol	108	Compound Not Detected.					
34 Hexachloroethane	117	Compound Not Detected.					
35 Nitrobenzene	77	Compound Not Detected.					
41 Isophorone	82	Compound Not Detected.					
42 2-Nitrophenol	139	Compound Not Detected.					
43 2,4-Dimethylphenol	107	Compound Not Detected.					
44 bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
48 2,4-Dichlorophenol	162	Compound Not Detected.					
49 Benzoic Acid	122	Compound Not Detected.					
50 1,2,4-Trichlorobenzene	180	6.481	6.472	(0.991)	427838	67.0522	33.9
51 Naphthalene	128	Compound Not Detected.					
52 4-Chloroaniline	127	Compound Not Detected.					
56 Hexachlorobutadiene	224	Compound Not Detected.					
59 4-Chloro-3-Methylphenol	107	7.416	7.417	(1.134)	575901	88.1680	44.1
62 2-Methylnaphthalene	142	Compound Not Detected.					
205 1-Methylnaphthalene	142	Compound Not Detected.					
64 Hexachlorocyclopentadiene	236	Compound Not Detected.					
66 2,4,6-Trichlorophenol	196	Compound Not Detected.					
67 2,4,5-Trichlorophenol	196	Compound Not Detected.					
70 2-Chloronaphthalene	162	Compound Not Detected.					
73 2-Nitroaniline	65	Compound Not Detected.					
76 Dimethylphthalate	163	Compound Not Detected.					
78 2,6-Dinitrotoluene	165	Compound Not Detected.					
79 Acenaphthylene	152	Compound Not Detected.					
81 3-Nitroaniline	138	Compound Not Detected.					
82 Acenaphthene	153	9.612	9.592	(1.007)	804834	65.7085	32.8
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	9.975	9.960	(1.045)	164288	70.5727	35.3 (Q)
86 Dibenzofuran	168	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	10.066	10.056	(1.055)	251454	55.1283	27.6
91 2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
88 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					
92 2-Naphthylamine	143	Compound Not Detected.					
93 Diethylphthalate	149	Compound Not Detected.					
94 Fluorene	166	Compound Not Detected.					
95 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96 4-Nitroaniline	138	Compound Not Detected.					
98 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99 N-Nitrosodiphenylamine	169	Compound Not Detected.					
100 1,2-Diphenylhydrazine	77	Compound Not Detected.					
106 4-Bromophenyl-phenylether	248	Compound Not Detected.					

679 327

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	266	12.582	12.567	(0.980)	184417	71.7857	35.9
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
123 Fluoranthene	202				Compound Not Detected.		
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202	16.364	16.344	(0.841)	1170742	73.4943	36.7
131 Butylbenzylphthalate	149				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228				Compound Not Detected.		
137 Chrysene	228				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149				Compound Not Detected.		
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
143 7,12-dimethylbenz[a]anthracene	256				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.669	5.660	(0.867)	529255	64.4089	32.2
\$ 155 2-Fluorobiphenyl	172	8.260	8.245	(0.866)	908266	66.8449	33.4
\$ 156 Terphenyl-d14	244	16.898	16.873	(0.869)	926131	73.1890	36.6
\$ 157 Phenol-d5	99	4.740	4.720	(0.944)	792691	84.1320	42.1
\$ 158 2-Fluorophenol	112	3.725	3.694	(0.742)	616111	86.3605	43.2
\$ 159 2,4,6-Tribromophenol	330	11.279	11.264	(0.879)	154928	80.7387	40.4
\$ 186 2-Chlorophenol-d4	132	4.831	4.816	(0.962)	672706	95.0570	47.5
\$ 187 1,2-Dichlorobenzene-d4	152	5.226	5.211	(1.040)	295988	64.8471	32.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.

679 328

GC/MS SEMIVOLATILE
MISCELLANEOUS

Continuous L-L Extraction Worksheet

Batch # 1082316

STL - Pittsburgh
Logbook ID: OP

679 329

[illegible]

679 330

Instrument Name: GC/MS Instrument #1

Sequence File: D:\HPCHEM\1\SEQUENCE\022601.S

Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int

Operator: 007062

Data Path: d:\HPCHEM\1\DATA\022601.b\

Method Path: D:\HPCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	F0226DF1	DFTPPS	DFTPP050 (25ppb) 77-06-09
2)	Sample	2	F0226SC1	SIMPAH	SSTD4.0 (2.0ppb) 77-14-3
3)	Sample	3	F0226001	SIMPAH	C1B140249-BLK x10 2/21/01 Soil (
4)	Sample	4	F0226002	SIMPAH	C1B150278-004 x20 2/21/01 Soil (
5)	Sample	5	F0226003	SIMPAH	C1B150284-005D x10 2/21/01 Soil
6)	Sample	6	F0226004	SIMPAH	C1B150278-004 x40 2/21/01 Soil (
7)	Sample	(10.46) 1	F0226DF2	DFTPP	DFTPP050 (25ppb) 77/06/09
8)	Sample	2	F02260C2	72EARLY	SSTD050 (25ppb) 77-13-14
9)	Sample	25	F02260C3	72EARLY	SSTD020 (10ppb) 77-11-01
10)	Sample	26	F02260C4	72EARLY	SSTD080 (40ppb) 77-11-03
11)	Sample	27	F02260C5	72EARLY	SSTD120 (60ppb) 77-11-04
12)	Sample	28	F02260C6	72EARLY	SSTD160 (80ppb) 77-11-05
13)	Sample	29	F02260V1	72EARLY	SSTD VER (SSTD050) 77-13-15
14)	Sample	3	F0226005	72EARLY	C1B230105-BLK 2/23/01 H2O (10571
15)	Sample	4	F0226006	72EARLY	C1B230105-LCS 2/23/01 H2O (10571
16)	Sample	5	F0226007	72EARLY	C1B230105-LCSD 2/23/01 H2O (1057
17)	Sample	6	F0226008	72EARLY	C1B230105-001 x10 2/23/01 H2O (1
18)	Sample	7	F0226009	72EARLY	C1B230105-002 2/23/01 H2O (10571
19)	Sample	8	F0226010	72EARLY	C1B220204-001 2/23/01 H2O (10571
20)	Sample	9	F0226011	72EARLY	C1B220204-002 2/23/01 H2O (10571
21)	Sample	10	F0226012	72EARLY	C1B220204-003 2/23/01 H2O (10571
22)	Sample	11	F0226013	72EARLY	C1B220204-004 2/23/01 H2O (10571
23)	Sample	12	F0226014	72EARLY	C1B220204-005 2/23/01 H2O (10571
24)	Sample	13	F0226015	72EARLY	C1B220204-006 2/23/01 H2O (10571

Bytes Needed: 1234685 Space on drive D: 1023932928

Sequence Verification Done!

Instrument Name: GC/MS Instrument #1

679 331

Sequence File: D:\HPCHEM\1\SEQUENCE\032701.S

Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int

Operator: 007062

Data Path: d:\HPCHEM\1\DATA\032701.b\

Method Path: D:\HPCHEM\1\METHODS\

8270

3/27/01

FBB

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1118 1	F0327DF1	DFTPP	DFTPP050 (25ppb) 77/06/09
2)	Sample	2	F03270C1	72EARLY	SSTD050 (25ppb) 77-15-13
3)	Sample	ADC 2	F03270C2	72EARLY	SSTD050 (25ppb) 77-15-13
4)	Sample	ADC 24	F03270C3	72EARLY	SSTD020 (10ppb) 77-11-1
5)	Sample	ADC 25	F03270C4	72EARLY	SSTD080 (40ppb) 77-11-3
6)	Sample	ADC 26	F03270C5	72EARLY	SSTD120 (60ppb) 77-11-4
7)	Sample	ADC 27	F03270C6	72EARLY	SSTD160 (80ppb) 77-11-5
8)	Sample	ADC 1	F03270C7	72EARLY	STDVER50 (25ppb) 77-13-15
9)	Sample	100	F03090B3	72EARLY	Clean out Blank
10)	Sample	100	F03090B4	72EARLY	Clean out Blank

Bytes Needed: 554612 Space on drive D: 1023932928

Sequence Verification Done!

679 332

PSR024 3/22/01 4 28.11 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY TROUTB

METHOD: QL Base/Neutrals and Acids (8270C)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
14A, CLP1	DXPK3-1-AC		322110	399411	I-49-QL	C1C210184	001		WATER	0	13 1

Dumped empty jar

RELINQUISHED BY

[Signature]
B Trout

RECEIVED BY

[Signature]
B Trout

DATE/TIME

3/22/2001 06:45
3/22/2001 11:20

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

Instrument Name: GC/MS Instrument #1

679 333

Sequence File: D:\HPCHEM\1\SEQUENCE\032601.S

Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int

Operator: 007062

Data Path: d:\HPCHEM\1\DATA\032601.b\

Method Path: D:\HPCHEM\1\METHODS\

7270
3/26/01
FBB

Line Type	Vial	DataFile	Method	Sample Name
1) Sample	(8:27) 1	F0326DF1	DFTPP	DFTPP050 (25ppb) 77/06/09
2) Sample	130 -2	F03260C1	72EARLY	SSTD050 (25ppb) 77-15-13
3) Sample	AGC 2	F03260C2	72EARLY	SSTD050 (25ppb) 77-15-13
4) Sample	AK -3	F0326001	72EARLY	I1C140249-BLK 3/22/01 soil (1081
5) Sample	AK 4	F0326002	72EARLY	I1C140249-019 x5 3/22/01 soil (
6) Sample	AK 5	F0326003	72EARLY	I1C140249-003 x20 3/22/01 soil (
7) Sample	AGC 6	F0326004	72EARLY	I1C140249-023S 3/22/01 soil (108
8) Sample	AK 7	F0326005	72EARLY	I1C140249-023D 3/22/01 soil (108
9) Sample	AK 8	F0326006	72EARLY	I1C140249-024 3/22/01 soil (1081
10) Sample	AK 9	F0326007	72EARLY	I1C140249-025 3/22/01 soil (1081
11) Sample	AK 10	F0326008	72EARLY	C1C210184-BLK 3/22/01 H2O (10823
12) Sample	AK 10	F0326020	72EARLY	C1C210184-BLK 3/22/01 H2O (10823
13) Sample	AK 11	F0326009	72EARLY	C1C210184-LCS 3/22/01 H2O (10823
14) Sample	AK 12	F0326010	72EARLY	C1C210184-LCSD 3/22/01 H2O (1082
15) Sample	AK 136	F0326011	72EARLY	C1C210184-001 x10 3/22/01 H2O (1
16) Sample	AK 14	F0326012	72EARLY	C1C200146-BLK 3/23/01 Wipes (108
17) Sample	AK 15	F0326013	72EARLY	C1C200146-LCS 3/23/01 Wipes (108
18) Sample	AK 16	F0326014	72EARLY	C1C200146-LCSD 3/23/01 Wipes (10
19) Sample	17	F0326015	72EARLY	C1C200146-020 3/23/01 Wipes (108
20) Sample	18	F0326016	72EARLY	C1C200146-021 3/23/01 Wipes (108
21) Sample	19	F0326017	72EARLY	C1C200146-022 3/23/01 Wipes (108
22) Sample	20	F0326018	72EARLY	C1C200146-023 3/23/01 Wipes (108
23) Sample	21	F0326019	72EARLY	C1C200146-024 3/23/01 Wipes (108
24) Sample	100	F03090B3	72EARLY	Clean out Blank
25) Sample	100	F03090B4	72EARLY	Clean out Blank

Bytes Needed: 2429270 Space on drive D: 1023932928

Sequence Verification Done!

C1C210184

679 334

Instrument Name: GC/MS Instrument #1

Sequence File: D:\HPCHEM\1\SEQUENCE\032601n.S

Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int

Operator: 007062

Data Path: d:\HPCHEM\1\DATA\032601n.b\

Method Path: D:\HPCHEM\1\METHODS\

8270

3/26/01(N)
VVP

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	2055	F0326DFN	DFTPP	DFTPP050 (25ppb) 77/06/09
2)	Sample	2052	F03260CN	72EARLY	SSTD050 (25ppb) 77-15-13
3)	Sample	2053	F0326050	72EARLY	C1C220138-BLK 3/23/01 H2O (10823
4)	Sample	2054	F0326051	72EARLY	C1C220138-LCS 3/23/01 H2O (10823
5)	Sample	2055	F0326052	72EARLY	C1C220138-LCSD 3/23/01 H2O (1082
6)	Sample	2021	F0326068	72EARLY	C1C210184-LCSD 3/22/01 H2O (1082
7)	Sample	2058	F0326055	72EARLY	C1C210117-BLK 3/23/01 tclp (108
8)	Sample	2059	F0326056	72EARLY	C1C210117-LCS 3/23/01 tclp (108
9)	Sample	2013	F0326060	72EARLY	C1C220173-BLK 3/23/01 H2O (1082
10)	Sample	2014	F0326061	72EARLY	C1C220173-LCS 3/23/01 H2O (1082
11)	Sample	2015	F0326062	72EARLY	C1C220173-LCSD 3/23/01 H2O (108
12)	Sample	2056	F0326053	72EARLY	C1C220138-001 3/23/01 H2O (10823
13)	Sample (UNX5)	2057	F0326054	72EARLY	C1C210136-001 x5 3/23/01 H2O (10
14)	Sample	2018	F0326065	72EARLY	I1C140249-023D 3/22/01 soil (108
15)	Sample	2019	F0326066	72EARLY	I1C140249-024 3/22/01 soil (1081
16)	Sample	2020	F0326067	72EARLY	I1C140249-025 3/22/01 soil (1081
17)	Sample	2016	F0326063	72EARLY	C1C220173-001 x10 3/23/01 H2O (1
18)	Sample	2017	F0326064	72EARLY	C1C220173-002 x10 3/23/01 H2O (1
19)	Sample	10	F0326057	72EARLY	C1C210117-001S 3/23/01 tclp (10
20)	Sample	11	F0326058	72EARLY	C1C210117-001D 3/23/01 tclp (10
21)	Sample	12	F0326059	72EARLY	C1C210117-001 3/23/01 tclp (108
22)	Sample	100	F03090B3	72EARLY	Clean out Blank
23)	Sample	100	F03090B4	72EARLY	Clean out Blank

Bytes Needed: 1150000 Space on drive D: 1023932928

Sequence Verification Done!

679 335

PESTICIDE DATA

679 336

PESTICIDE
QC SUMMARY

2E
WATER PESTICIDE SURROGATE RECOVERY

679 337

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: C1C210184
 GC Column(1): RTX-50 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	PBLK1497	79	80	95	94			0
02	LCS1497		84		96			0
03	LCD1497		72		86			0
04	DF/24-B/1079	0*	344*	74	78			2
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (39-130)
 S2 (DCB) = Decachlorobiphenyl (10-147)

Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

679 338

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIIT

SDG No:

Lot #: C1C220000

WO #: DXTLX1AC

BATCH: 1081497

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.219	88	49 - 137	
Heptachlor	0.250	0.216	86	57 - 124	
Aldrin	0.250	0.212	85	62 - 120	
Dieldrin	0.500	0.496	99	68 - 130	
Endrin	0.500	0.525	105	46 - 137	
4,4'-DDT	0.500	0.490	98	60 - 140	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C220000

WO #: DXTLX1AD

BATCH: 1081497

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.179	72	49 - 137	
Heptachlor	0.250	0.180	72	57 - 124	
Aldrin	0.250	0.175	70	62 - 120	
Dieldrin	0.500	0.429	86	68 - 130	
Endrin	0.500	0.458	92	46 - 137	
4,4'-DDT	0.500	0.427	85	60 - 140	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

679 340
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1497

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C210184

Lab Sample ID: DXTLX1AA

Lab File ID: D-A3145

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SW3510

Sulfur Cleanup (Y/N) N

Date Extracted: 03/22/01

Date Analyzed (1): 03/24/01

Date Analyzed (2): 03/24/01

Time Analyzed (1): 0538

Time Analyzed (2): 0538

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column (1): RTX-50 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	LCS1497	DXTLX1AC		03/24/01
02	LCD1497	DXTLX1AD		03/24/01
03	DF/24-B/1079	DXPK31AD	03/24/01	03/24/01
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

679 341

PESTICIDE
SAMPLE DATA

679 342

UXB INTERNATIONAL

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

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

Lab Sample ID: C1C210184 001

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXPK31AD

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/24/01

Moisture %: NA

QC Batch: 1081497

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.037	J P
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.70	
319-86-8	delta-BHC	0.18	
58-89-9	gamma-BHC (Lindane)	0.050	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.14	P
72-54-8	4,4'-DDD	0.092	P
72-55-9	4,4'-DDE	0.089	P
50-29-3	4,4'-DDT	0.082	P
60-57-1	Dieldrin	0.21	P
959-98-8	Endosulfan I	0.17	P
33213-65-9	Endosulfan II	0.098	P
1031-07-8	Endosulfan sulfate	0.029	J P
72-20-8	Endrin	0.14	P
7421-93-4	Endrin aldehyde	0.19	P
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3151.d
 Report Date: 26-Mar-2001 10:22

673 343

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3151.d
 Lab Smp Id: DXPK31AD Client Smp ID: DF/24-B/1079/IDW/00
 Inj Date : 24-MAR-2001 08:27
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXPK31AD, 2231-G.b, , PEST.sub, , 3,
 Misc Info : 210184001
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-B3122.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC044

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
§ 2 Tetrachloro-m-xylene	5.366	5.406	-0.040	74863	0.06878	0.6878 (R)
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	9.466	9.486	-0.020	17435	0.01477	0.1476
10 beta-BHC	12.120	12.133	-0.013	51480	0.06983	0.6982
8 Chlordane	Compound Not Detected.					
9 Heptachlor	10.293	10.306	-0.013	8713	0.00713	0.07131
11 delta-BHC	12.766	12.740	0.026	34061	0.02436	0.2436
13 Aldrin	11.293	11.266	0.027	14877	0.01274	0.1274
17 Heptachlor epoxide	Compound Not Detected.					
18 gamma-Chlordane	13.860	13.813	0.047	22529	0.01359	0.1359
19 alpha-Chlordane	13.966	13.926	0.040	37934	0.02307	0.2307
20 Endosulfan I	13.746	13.726	0.020	25786	0.01707	0.1707
22 4,4'-DDE	14.120	14.080	0.040	14095	0.00886	0.08863
23 Dieldrin	14.333	14.326	0.007	34478	0.02103	0.2103
26 Endrin	14.673	14.660	0.013	17959	0.01437	0.1437

679 344

Data File: \\gpitpa02\d\chem\gc4.i\2231-G.b\D-B3151.d
 Report Date: 26-Mar-2001 10:22

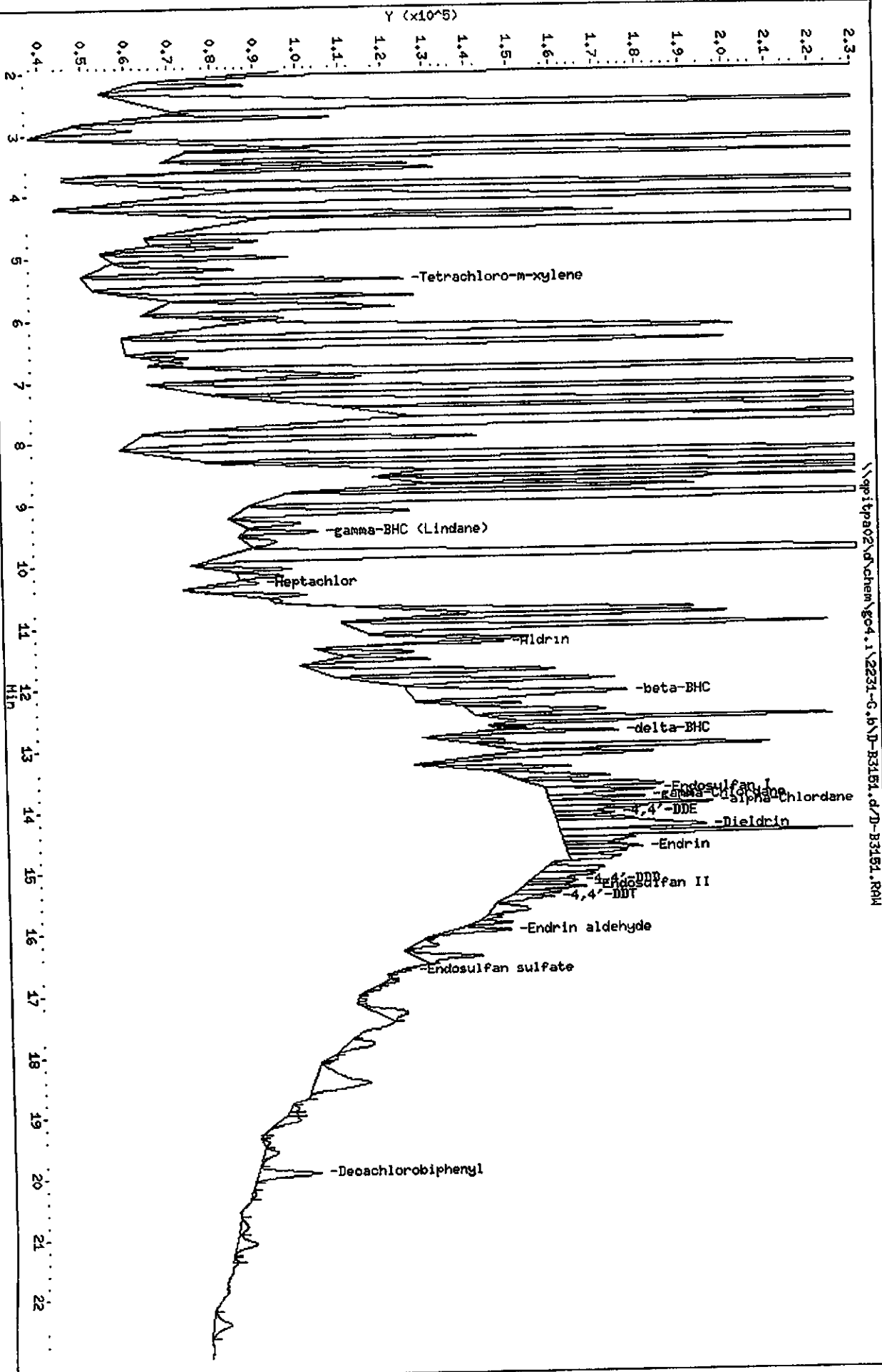
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
29 4,4'-DDD	15.213	15.226	-0.013	11058	0.00919	0.09190
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	15.313	15.353	-0.040	15099	0.00980	0.09795
32 4,4'-DDT	15.473	15.486	-0.013	10643	0.00821	0.08212
33 Endrin aldehyde	16.013	16.033	-0.020	14003	0.01919	0.1919
34 Endosulfan sulfate	16.640	16.626	0.014	2346	0.00289	0.02886(a)
35 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	Compound Not Detected.					
\$ 38 Decachlorobiphenyl	19.940	19.933	0.007	14828	0.01558	0.1558

QC Flag Legend

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

Data File: \\pittpa02\chem\gc4.1\2231-G.b\D-B3151.d
 Date: 24-MAR-2001 08:27
 Client ID: DF/24-B/1079/IDM/00
 Sample Info: DPK314D,2231-G.b,,PEST.sub,,3,
 Volume Injected (uL): 1.0
 Column phase: RTX-1701

Instrument: gc4.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3151.d
 Report Date: 26-Mar-2001 11:38

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3151.d
 Lab Smp Id: DXPK31AD Client Smp ID: DF/24-B/1079/IDW/00
 Inj Date : 24-MAR-2001 08:27
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXPK31AD, 2231-G.b, , PEST.sub, , 3,
 Misc Info : 210184001
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC044

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 2 Tetrachloro-m-xylene						
6 alpha-BHC						
7 gamma-BHC (Lindane)						
10 beta-BHC	9.713	9.733	-0.020	75167	0.07429	0.7429
8 Chlordane						
9 Heptachlor						
11 delta-BHC	10.733	10.700	0.033	30875	0.01824	0.1824
13 Aldrin	11.000	10.993	0.007	5509	0.00370	0.03700(a)
17 Heptachlor epoxide	12.860	12.880	-0.020	57234	0.02967	0.2967
18 gamma-Chlordane	13.300	13.293	0.007	67431	0.03203	0.3203
19 alpha-Chlordane						
20 Endosulfan I	13.613	13.626	-0.013	72726	0.03593	0.3593
22 4,4'-DDE	14.073	14.060	0.013	55526	0.02447	0.2447
23 Dieldrin	14.233	14.220	0.013	86906	0.03897	0.3897
26 Endrin	14.766	14.760	0.006	60661	0.03114	0.3114

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3151.d
 Report Date: 26-Mar-2001 11:38

679 347

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
-----	--	-----	-----	-----	-----	-----
29 4,4'-DDD	14.940	14.966	-0.026	73708	0.04216	0.4216
30 Toxaphene	15.060	15.020	0.040	67036	1.29193	12.92
31 Endosulfan II	15.193	15.153	0.040	59426	0.02969	0.2969
32 4,4'-DDT	15.353	15.393	-0.040	62057	0.03542	0.3542
33 Endrin aldehyde	15.693	15.646	0.047	68142	0.04441	0.4441
34 Endosulfan sulfate	15.880	15.926	-0.046	63872	0.04706	0.4706
35 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	Compound Not Detected.					
\$ 38 Decachlorobiphenyl	21.006	21.000	0.006	14988	0.01482	0.1482

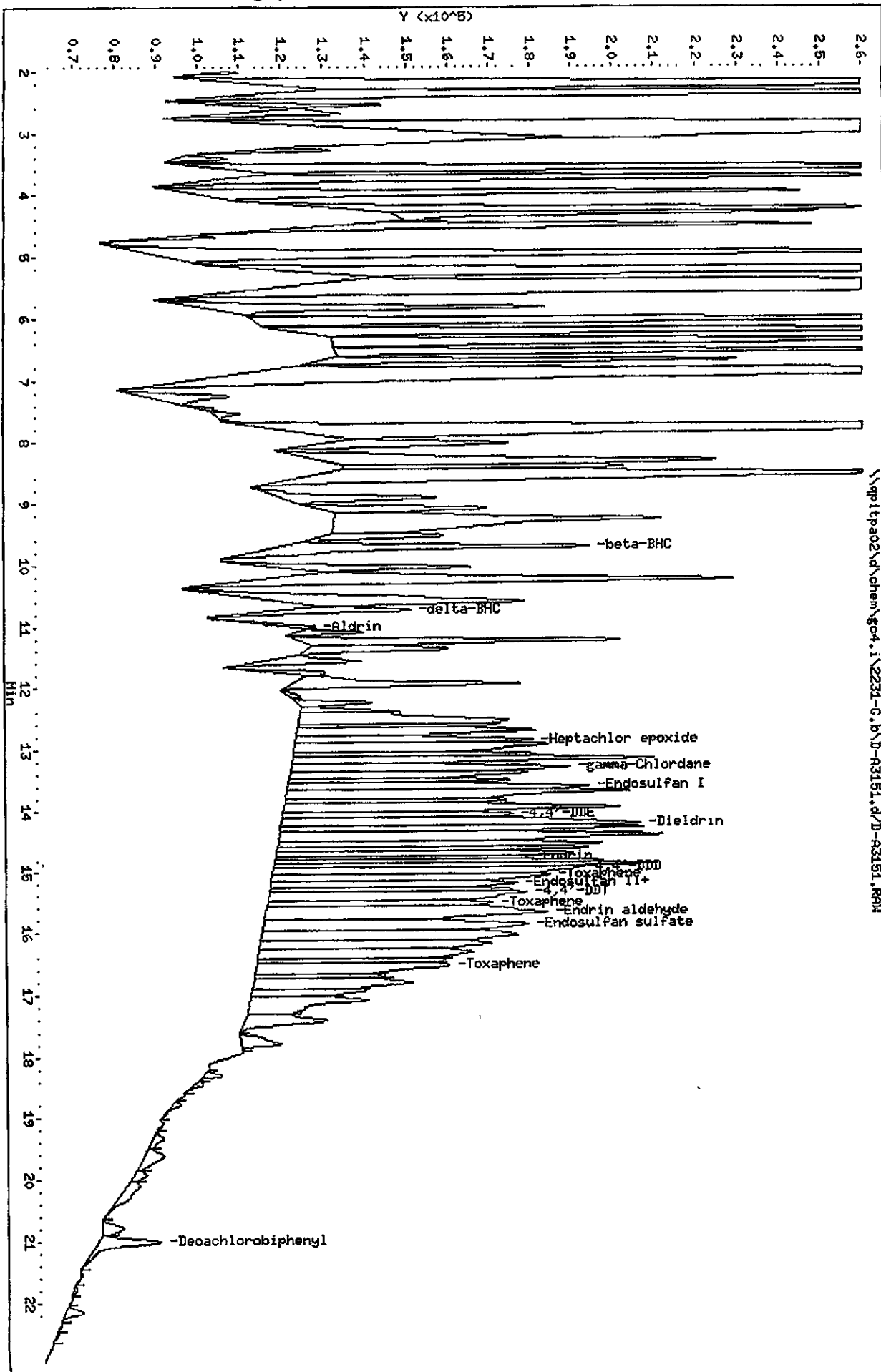
QC Flag Legend

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

679 348

Data File: \\pittpa02\chem\gc4.i\2231-G.b\D-A3151.d
 Date: 24-MAR-2001 08:27
 Client ID: JF/24-B/4079/IDM/00
 Sample Info: DPK31AD, 2231-G.b, PEST, sub, 3,
 Volume Injected (uL): 1.0
 Column phase: RTX-50

Instrument: gc4.i
 Operator: 010139
 Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

673 349

EPA SAMPLE NO.

DF/24-B/1,
079/IDW/00

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C210184

Lab Sample ID: DXPK31AD

Date(s) Analyzed: 03/24/01 03/24/01

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): RTX-50

ID: 0.53 (mm)

GC Column(2): RTX-1701

ID: 0.53 (mm)

ANALYTE =====	COL =====	RT =====	RT WINDOW		CONCENTRATION =====	%D =====
			FROM =====	TO =====		
beta-BHC	1	9.71	9.68	9.78	0.7429	
	2	12.12	12.08	12.18	0.6982	6.4
delta-BHC	1	10.73	10.65	10.75	0.1824	
	2	12.77	12.69	12.79	0.2436	33.6
Aldrin	1	11.00	10.94	11.04	0.03700	
	2	11.29	11.22	11.32	0.1274	244.3
Endosulfan I	1	13.61	13.58	13.68	0.3593	
	2	13.75	13.68	13.78	0.1707	110.5
Dieldrin	1	14.23	14.17	14.27	0.3897	
	2	14.33	14.28	14.38	0.2103	85.3
4,4'-DDE	1	14.07	14.01	14.11	0.2447	
	2	14.12	14.03	14.13	0.08863	176.1
Endrin	1	14.77	14.71	14.81	0.3114	
	2	14.67	14.61	14.71	0.1437	116.7
Endosulfan II	1	15.19	15.10	15.20	0.2969	
	2	15.31	15.30	15.40	0.09795	203.1

679 350

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

DF/24-B/1
079/IDW/00

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C210184

Lab Sample ID: DXPK31AD

Date(s) Analyzed: 03/24/01 03/24/01

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): RTX-50

ID: 0.53(mm)

GC Column(2): RTX-1701

ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	14.94	14.92	15.02	0.4216	
	2	15.21	15.18	15.28	0.09190	358.8
Endosulfan sulfate	1	15.88	15.88	15.98	0.4706	
	2	16.64	16.58	16.68	0.02886	999.9
4,4'-DDT	1	15.35	15.34	15.44	0.3542	
	2	15.47	15.44	15.54	0.08212	331.3
Endrin aldehyde	1	15.69	15.60	15.70	0.4441	
	2	16.01	15.98	16.08	0.1919	131.4
gamma-Chlordane	1	13.30	13.24	13.34	0.3203	
	2	13.86	13.76	13.86	0.1359	135.7
	1					
	2					
	1					
	2					
	1					
	2					

PESTICIDE
CALIBRATION DATA

Report Date : 26-Mar-2001 10:53

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Quant Method : ESTD Target Version : 4.04
 Last Update : 26-Mar-2001 10:52 Number of Cpnds : 24
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events

Values

 Initial:Start Threshold 40.000000
 Initial:End Threshold 20.000000
 Initial:Area Threshold 1000.000000
 Initial:P-P Resolution 1.000000
 Initial:Bunch Factor 1.000000
 Initial:Negative Peaks ON
 Initial:Tension 0.000000

Compound	RT	RT Window	RF
\$ 2 Tetrachloro-m-xylene	5.147	5.097-5.197	1.70e+006
6 alpha-BHC	7.313	7.263-7.363	2.07e+006
7 gamma-BHC (Lindane)	8.767	8.717-8.817	1.94e+006
8 Chlordane	9.120	9.070-9.170	5.24e+004
	9.767	9.717-9.817	6.78e+004
	13.300	13.250-13.350	2.30e+005
	13.593	13.543-13.643	2.59e+005
9 Heptachlor	9.767	9.717-9.817	1.54e+006
10 beta-BHC	9.733	9.683-9.783	1.01e+006
11 delta-BHC	10.700	10.650-10.750	1.69e+006
13 Aldrin	10.993	10.943-11.043	1.49e+006
17 Heptachlor epoxide	12.880	12.830-12.930	1.93e+006
18 gamma-Chlordane	13.293	13.243-13.343	2.11e+006
19 alpha-Chlordane	13.593	13.543-13.643	2.18e+006
20 Endosulfan I	13.627	13.577-13.677	2.02e+006
22 4,4'-DDE	14.060	14.010-14.110	2.27e+006
23 Dieldrin	14.220	14.170-14.270	2.23e+006
26 Endrin	14.760	14.710-14.810	1.95e+006
29 4,4'-DDD	14.967	14.917-15.017	1.75e+006
30 Toxaphene	15.020	14.970-15.070	4.73e+004
	15.193	15.143-15.243	5.76e+004
	15.547	15.497-15.597	4.06e+004
	16.573	16.523-16.623	3.36e+004
31 Endosulfan II	15.153	15.103-15.203	2.00e+006

Report Date : 26-Mar-2001 10:53

6D
58904A
RTX-50

673 353

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m

Compound	RT	RT Window	RF
32 4,4'-DDT	15.393	15.343-15.443	1.75e+006
33 Endrin aldehyde	15.647	15.597-15.697	1.53e+006
34 Endosulfan sulfate	15.927	15.877-15.977	1.36e+006
35 Methoxychlor	17.020	16.970-17.070	6.97e+005
37 Endrin ketone	17.353	17.303-17.403	1.53e+006
\$ 38 Decachlorobiphenyl	21.000	20.950-21.050	1.01e+006

679 354

6E
589044
RTX-5D

Report Date : 26-Mar-2001 10:53

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAR-2001 13:41
 End Cal Date : 23-MAR-2001 18:52
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Cal Date : 26-Mar-2001 10:52 matkol
 Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3118.d
 Level 2: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3119.d
 Level 3: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3120.d
 Level 4: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3121.d
 Level 5: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3122.d

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
6 alpha-BHC	1635200	1811400	2199480	2343860	2347030	2067394	15.756
7 gamma-BHC (Lindane)	1634000	1769700	2053440	2143380	2124120	1944928	11.799
8 Chlordane(1)	+++++	+++++	52412	+++++	+++++	52412	0.000
(2)	+++++	+++++	67808	+++++	+++++	67808	0.000
(3)	+++++	+++++	230104	+++++	+++++	230104	0.000
(4)	+++++	+++++	258956	+++++	+++++	258956	0.000
9 Heptachlor	1474400	1462400	1536320	1597660	1614430	1537042	4.503
10 beta-BHC	1020200	987000	1028240	1037800	985920	1011832	2.371
11 delta-BHC	1368200	1423700	1749400	1957300	1966560	1693032	16.859
13 Aldrin	1331200	1319100	1499720	1641040	1654460	1489104	10.848
17 Heptachlor epoxide	1813800	1775700	1960760	2061880	2032060	1928840	6.663
18 gamma-Chlordane	2019200	1967100	2143000	2221600	2174490	2105078	5.108
19 alpha-Chlordane	2121400	2077100	2221840	2279120	2205850	2181062	3.715
20 Endosulfan I	1851600	1930800	2103400	2128480	2106140	2024084	6.169
22 4,4'-DDE	2067000	2102500	2340560	2441200	2395330	2269318	7.609
23 Dieldrin	1938200	2070800	2314480	2413640	2412130	2229850	9.632
26 Endrin	1682000	1794000	2008680	2125740	2129440	1947972	10.352
29 4,4'-DDD	1536000	1646200	1800920	1891400	1866380	1748180	8.707
30 Toxaphene(1)	+++++	+++++	47273	+++++	+++++	47273	0.000
(2)	+++++	+++++	57583	+++++	+++++	57583	0.000
(3)	+++++	+++++	40614	+++++	+++++	40614	0.000
(4)	+++++	+++++	33569	+++++	+++++	33569	0.000
31 Endosulfan II	1866600	1861600	2049520	2134840	2093510	2001214	6.434
32 4,4'-DDT	1616000	1654500	1784400	1856500	1849620	1752204	6.349
33 Endrin aldehyde	1539600	1478600	1539960	1582720	1531600	1534496	2.420
34 Endosulfan sulfate	1224000	1214000	1365480	1482480	1500960	1357384	10.066

Report Date : 26-Mar-2001 10:53

68.
58904A
RTx-SD

679 355

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAR-2001 13:41
End Cal Date : 23-MAR-2001 18:52
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Cal Date : 26-Mar-2001 10:52 matkol
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		
35 Methoxychlor	680700	693200	708720	709420	692735	696955	1.742
37 Endrin ketone	1410600	1400700	1570600	1656300	1627710	1533182	7.859
\$ 2 Tetrachloro-m-xylene	1714400	1717700	1718760	1723920	1635520	1702060	2.195
\$ 38 Decachlorobiphenyl	1042800	1038900	1025800	990540	958650	1011338	3.554

679 356

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 4140-G

GC Column: RTX-50

ID: 0.53

(mm)

Init. Calib. Date(s): 03/23/01 03/23/01

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 03/23/01

Lab Sample ID (PEM): EVALB

Time Analyzed : 1313

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Endrin	14.76	14.71	14.81	0.02517	0.02500	0.7
4,4'-DDT	15.39	15.34	15.44	0.02505	0.02500	0.2

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

~~1.40~~

1.8

Endrin % breakdown (1):

~~5.33~~

4.7

Combined % breakdown (1):

~~7.73~~

6.5

LM
3/24/01

FORM VII PEST-1

OLM03.0

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

679 357

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G

GC Column: RTX-50 ID: 0.53 (mm) Init. Calib. Date(s): 03/23/01 03/23/01

EPA Sample No. (PIBLK): _____ Date Analyzed : _____

Lab Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No. (PEM): _____ Date Analyzed : 03/23/01

Lab Sample ID (PEM): EVALB Time Analyzed : 2016

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.76	14.71	14.81	0.02482	0.02500	-0.7
4,4'-DDT	15.39	15.34	15.44	0.02485	0.02500	-0.6

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

~~1.09~~ 1.4
~~7.96~~ 6.6

Endrin % breakdown (1):

~~6.87~~
5.2

by
3/26/01

679 358

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 4140-G

GC Column: RTX-50

ID: 0.53

(mm)

Init. Calib. Date(s): 03/23/01 03/23/01

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM): _____

Date Analyzed : 03/24/01

Lab Sample ID (PEM): EVALB

Time Analyzed : 0703

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.76	14.71	14.81	0.02575	0.02500	3.0
4,4'-DDT	15.39	15.34	15.44	0.02580	0.02500	3.2

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

~~0.76~~

.94

Endrin % breakdown (1):

~~3.50~~

Combined % breakdown (1):

~~4.26~~

3.84

2.9

LM
3/24/01

FORM VII PEST-1

OLM03.0

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3146.d
Report Date: 26-Mar-2001 11:13

7E
52904A
ATX-5D

STL-Pittsburgh

679 359

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 24-MAR-2001 06:06
Lab File ID: D-A3146.d Init. Cal. Date(s): 23-MAR-2001 23-MAR-2001
Analysis Type: Init. Cal. Times: 13:41 18:52
Lab Sample ID: MEDA Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m

COMPOUND	RRF	RFO	MIN	MAX
			RRF	%D
\$ 2 Tetrachloro-m-xylene	1702060	1804280	0.000	6 0
6 alpha-BHC	2067394	2240880	0.010	8.4
7 gamma-BHC (Lindane)	1944928	2070120	0.010	6.4
9 Heptachlor	1537042	1572120	0.010	2 3
20 Endosulfan I	2024084	2074480	0.010	2.5
23 Dieldrin	2229850	2331720	0.010	4.6
26 Endrin	1947972	2106560	0.010	8.1
29 4,4'-DDD	1748180	1930840	0.010	10.4
32 4,4'-DDT	1752204	1859560	0.010	6 1
35 Methoxychlor	696955	821500	0.010	17 9
\$ 38 Decachlorobiphenyl	1011338	1058160	0.010	4 6

679 360

7E

58704A

RTX-5D

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3147.d
 Report Date: 26-Mar-2001 11:13

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 24-MAR-2001 06:34
 Lab File ID: D-A3147.d Init. Cal. Date(s): 23-MAR-2001 23-MAR-2001
 Analysis Type: Init. Cal. Times: 13:41 18:52
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m

COMPOUND	RRF	RFO	MIN	MAX
-----	-----	-----	-----	-----
13 Aldrin	1489104	1488160	0.010	-0.1 15.0
10 beta-BHC	1011832	1015120	0.010	0.3 15.0
11 delta-BHC	1693032	1817920	0.010	7.4 15.0
17 Heptachlor epoxide	1928840	1911040	0.010	-0.9 15.0
18 gamma-Chlordane	2105078	2100360	0.010	-0.2 15.0
19 alpha-Chlordane	2181062	2161120	0.010	-0.9 15.0
22 4,4'-DDE	2269318	2355080	0.010	3.8 15.0
31 Endosulfan II	2001214	2042280	0.010	2.1 15.0
33 Endrin aldehyde	1534496	1567880	0.010	2.2 15.0
34 Endosulfan sulfate	1357384	1485280	0.010	9.4 15.0
37 Endrin ketone	1533182	1620880	0.010	5.7 15.0

AVE=5.01

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3169.d
Report Date: 26-Mar-2001 11:18

7L
52904A
RTx-50

STL-Pittsburgh

679 361

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 24-MAR-2001 16:54
Lab File ID: D-A3169.d Init. Cal. Date(s): 23-MAR-2001 23-MAR-2001
Analysis Type: Init. Cal. Times: 13:41 18:52
Lab Sample ID: MEDA Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m

COMPOUND	RRF	RFO	MIN	%D	MAX
\$ 2 Tetrachloro-m-xylene	1702060	1705120	0.000	0.2	15.0
6 alpha-BHC	2067394	2115320	0.010	2.3	15.0
7 gamma-BHC (Lindane)	1944928	1965160	0.010	1.0	15.0
9 Heptachlor	1537042	1521120	0.010	-1.0	15.0
20 Endosulfan I	2024084	1993600	0.010	-1.5	15.0
23 Dieldrin	2229850	2218200	0.010	-0.5	15.0
26 Endrin	1947972	1951000	0.010	0.2	15.0
29 4,4'-DDD	1748180	1776600	0.010	1.6	15.0
32 4,4'-DDT	1752204	1749400	0.010	-0.2	15.0
35 Methoxychlor	696955	780540	0.010	12.0	15.0
\$ 38 Decachlorobiphenyl	1011338	982200	0.010	-2.9	15.0

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3170.d 7L
 Report Date: 26-Mar-2001 11:19 58901A
 RTx 50

679 362

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 24-MAR-2001 17:22
 Lab File ID: D-A3170.d Init. Cal. Date(s): 23-MAR-2001 23-MAR-2001
 Analysis Type: Init. Cal. Times: 13:41 18:52
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m

COMPOUND	RRF	RFO	MIN	MAX
13 Aldrin	1489104	1491360	0.010	0.2
10 beta-BHC	1011832	1013560	0.010	0.2
11 delta-BHC	1693032	1825080	0.010	7.8
17 Heptachlor epoxide	1928840	1923440	0.010	-0.3
18 gamma-Chlordane	2105078	2110160	0.010	0.2
19 alpha-Chlordane	2181062	2181960	0.010	0.0
22 4,4'-DDE	2269318	2328680	0.010	2.6
31 Endosulfan II	2001214	1974400	0.010	-1.3
33 Endrin aldehyde	1534496	1528880	0.010	-0.4
34 Endosulfan sulfate	1357384	1461040	0.010	7.6
37 Endrin ketone	1533182	1576560	0.010	2.8

8D
PESTICIDE ANALYTICAL SEQUENCE

679 363

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: C1C210184
GC Column: RTX-50 ID: 0.53 (mm) Init. Calib. Date(s): 03/23/01 03/23/01
Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
TCX: 5.15 DCB: 21.00					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01	EVALB	03/23/01	1313	5.15	21.00
02	MEDTOX	03/23/01	1341	5.15	21.00
03	MEDCHLOR	03/23/01	1410	5.15	21.00
04	LOWA	03/23/01	1438	5.15	20.99
05	MLOWA	03/23/01	1506	5.15	20.99
06	MEDA	03/23/01	1534	5.15	21.00
07	MHIGHA	03/23/01	1602	5.15	21.00
08	HIGHA	03/23/01	1631	5.15	21.00
09	LOWB	03/23/01	1659		
10	MLOWB	03/23/01	1727		
11	MEDB	03/23/01	1755		
12	MHIGHB	03/23/01	1823		
13	HIGHB	03/23/01	1852		
14	2ND A	03/23/01	1920	5.15	20.99
15	2ND B	03/23/01	1948		
16	EVALB	03/23/01	2016	5.15	20.99
17	PBLK1497 DXTLX1AA	03/24/01	0538	5.15	21.00
18	MEDA	03/24/01	0606	5.15	21.01
19	MEDB	03/24/01	0634		
20	EVALB	03/24/01	0703	5.15	21.00
21	DF/24-B/1079 DXPK31AD	03/24/01	0827		21.01
22	MEDA	03/24/01	1654	5.15	21.01
23	MEDB	03/24/01	1722		
24					
25					
26					
27					
28					
29					
30					
31					
32					

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

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

679 364

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3110.d
Report Date: 26-Mar-2001 11:30

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3110.d
Lab Smp Id: EVALB
Inj Date : 23-MAR-2001 13:13
Operator : 010139 Inst ID: gc4.i
Smp Info : EVALB,2231-G.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
*****	*****	*****	*****	*****	*****	*****
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	34066	0.02001	0.02001(R)
22 4,4'-DDE	14.066	14.060	0.006	796	<0.0	0.0003508
26 Endrin	14.760	14.760	0.000	49027	0.02517	0.02517
29 4,4'-DDD	Compound Not Detected.					
32 4,4'-DDT	15.393	15.393	0.000	43891	0.02505	0.02505
33 Endrin aldehyde	15.646	15.646	0.000	1303	<0.0	0.0008491
37 Endrin ketone	17.353	17.353	0.000	1125	<0.0	0.0007338
\$ 38 Decachlorobiphenyl	21.000	21.000	0.000	20412	0.02018	0.02018(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT = 1.8
Endrin = 4.7

Data File: \\ppitpa02\chem\gc4.i\2231-G.b\D-A3110.d

Date: 23-MAR-2004 13:13

Client ID:

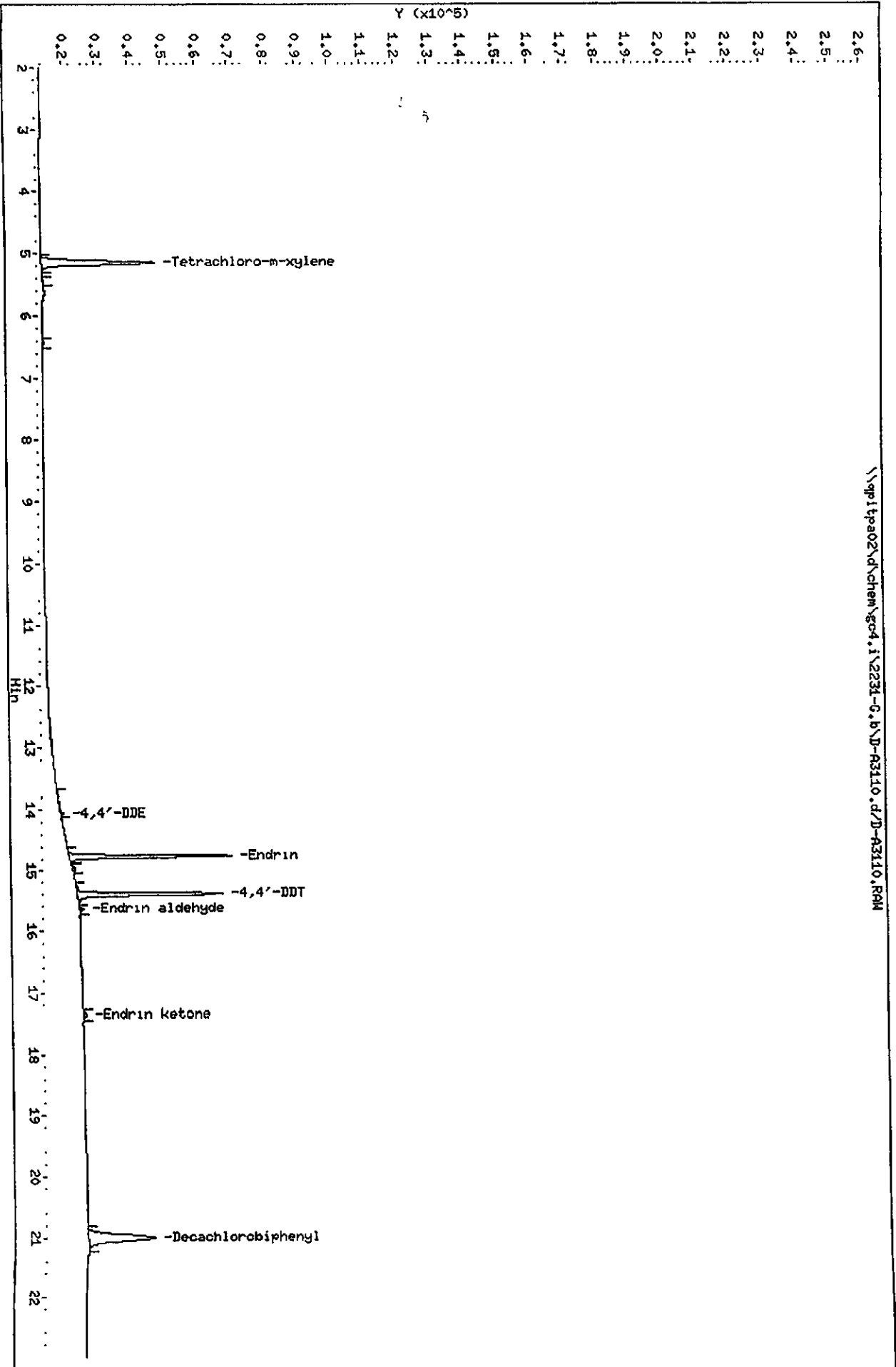
Sample Info: EVRLB,2231-G.b,EVRLB,sub,,3,1

Column phase: RTX-50

Instrument: gc4.1

Operator: Q10139

Column diameter: 0.53



679 366

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3111.d
Report Date: 26-Mar-2001 11:30

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3111.d
Lab Smp Id: MEDTOX
Inj Date : 23-MAR-2001 13:41
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDTOX,2231-G.b,,1-TOX.sub,,1,3
Misc Info : 190-98-12
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 13:41 Cal File: D-A3111.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
30 Toxaphene	15.020	15.020	0.000	47273	1 00000	1.000
\$ 2 Tetrachloro-m-xylene	5.146	5 146	0.000	41084	0 02500	0 02500
\$ 38 Decachlorobiphenyl	21.000	21.000	0 000	24654	0 02500	0.02500

Data File: \\pp1tpa02\chem\gc4.1\2231-G.b\D-A3111.d

Date: 23-MAR-2004 13:41

Client ID:

Sample Info: MEDTOX, 2231-G.b, 4-TOX, sub, 4, 3

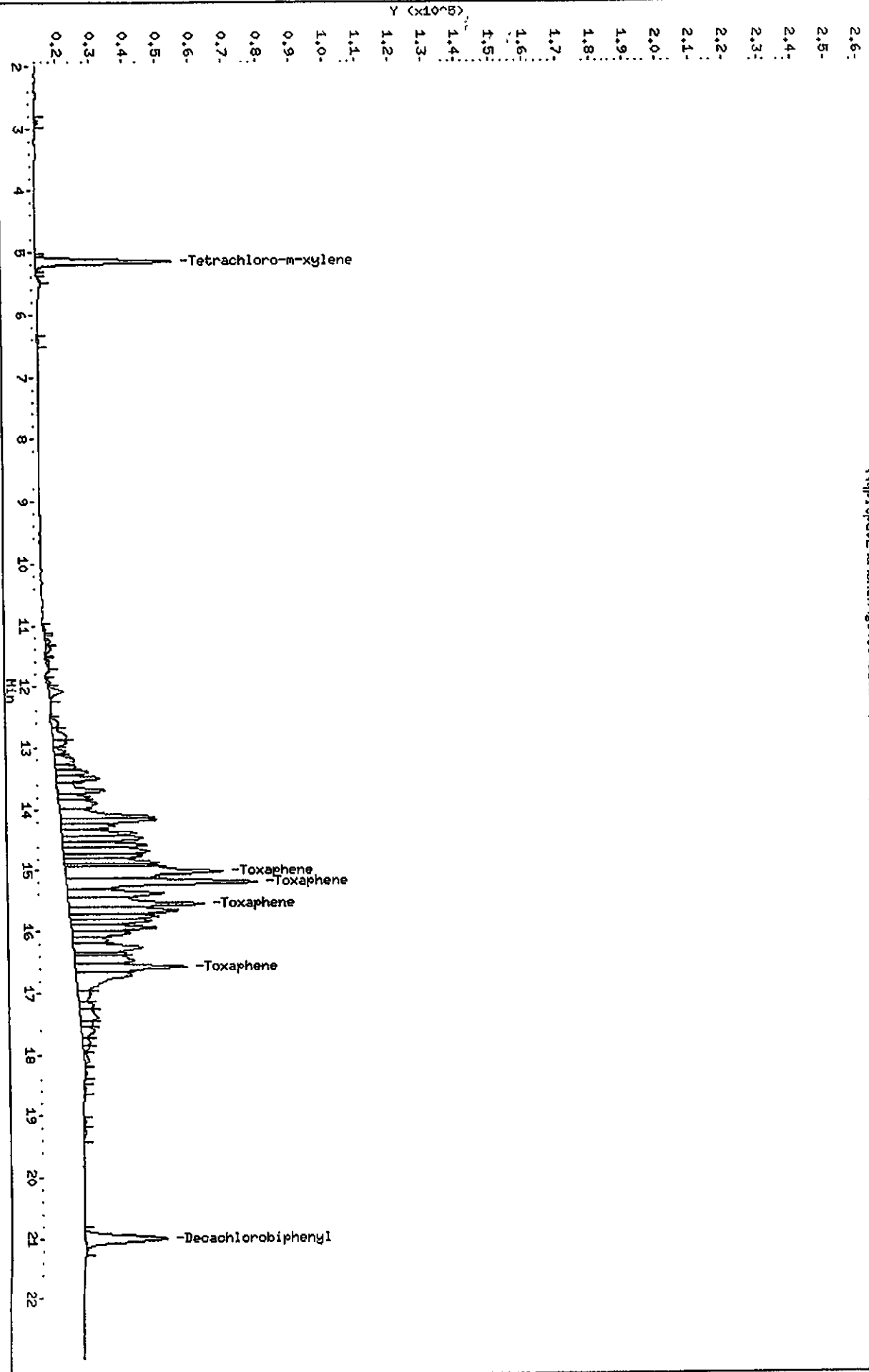
Column phase: RTX-B0

Instrument: gc4.1

Operator: 010139

Column diameter: 0.53

\\pp1tpa02\chem\gc4.1\2231-G.b\D-A3111.d\D-A3111.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3112.d
 Report Date: 26-Mar-2001 11:30

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3112.d
 Lab Smp Id: MEDCHLOR
 Inj Date : 23-MAR-2001 14:10
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDCHLOR,2231-G.b,,2-CHLO.sub,,1,3
 Misc Info : 190-102-9
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 14:10 Cal File: D-A3112.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 2-CHLO.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
8 Chlordane	9.120	9.120	0.000	13103	0.25000	0.2500 (M)
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	42969	0.02500	0.02500
\$ 38 Decachlorobiphenyl	21.000	21.000	0.000	25645	0.02500	0.02500

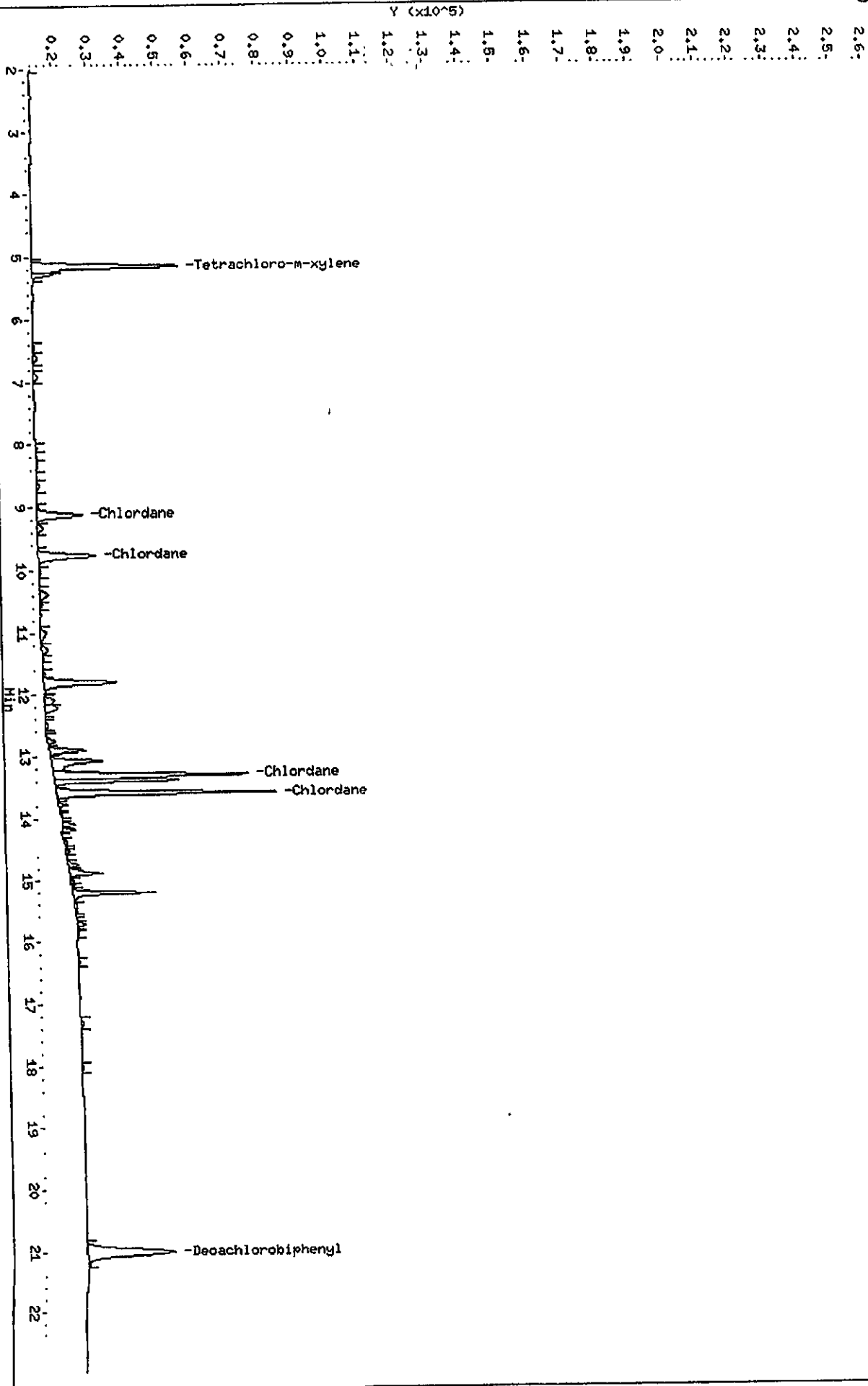
QC Flag Legend

M - Compound response manually integrated.

Data File: \\qpltpa02\chem\gc4.i\2231-G.b.D-63112.d
Date: 23-MAR-2004 14:10
Client ID:
Sample Info: HEDCHLOR,2231-G.b.,2-CHL0,sub,1,3
Column phase: RTX-50

Instrument: gc4.i
Operator: 010139
Column diameter: 0.53

\\qpltpa02\chem\gc4.i\2231-G.b.D-63112.d/D-63112.R00



679 370

Data File Name: D-A3112.d

Inj. Date and Time: 23-MAR-2001 14.10

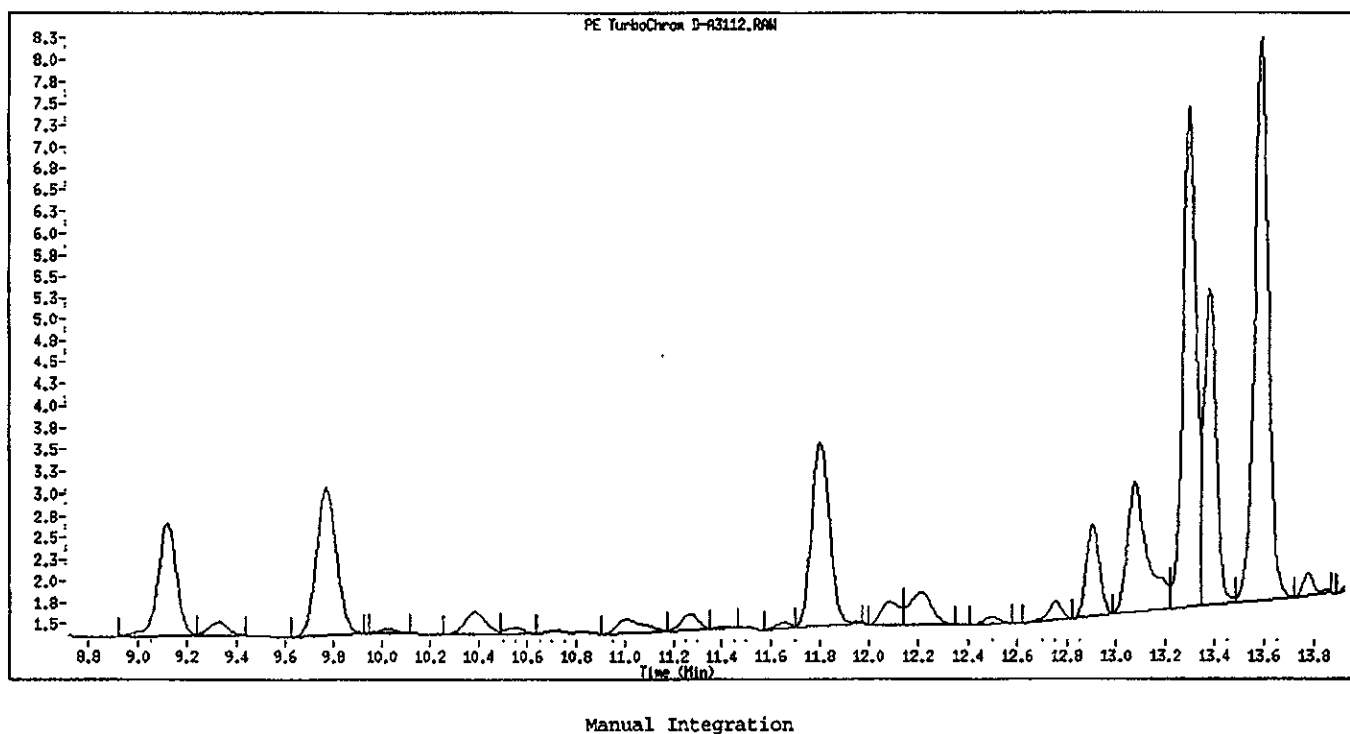
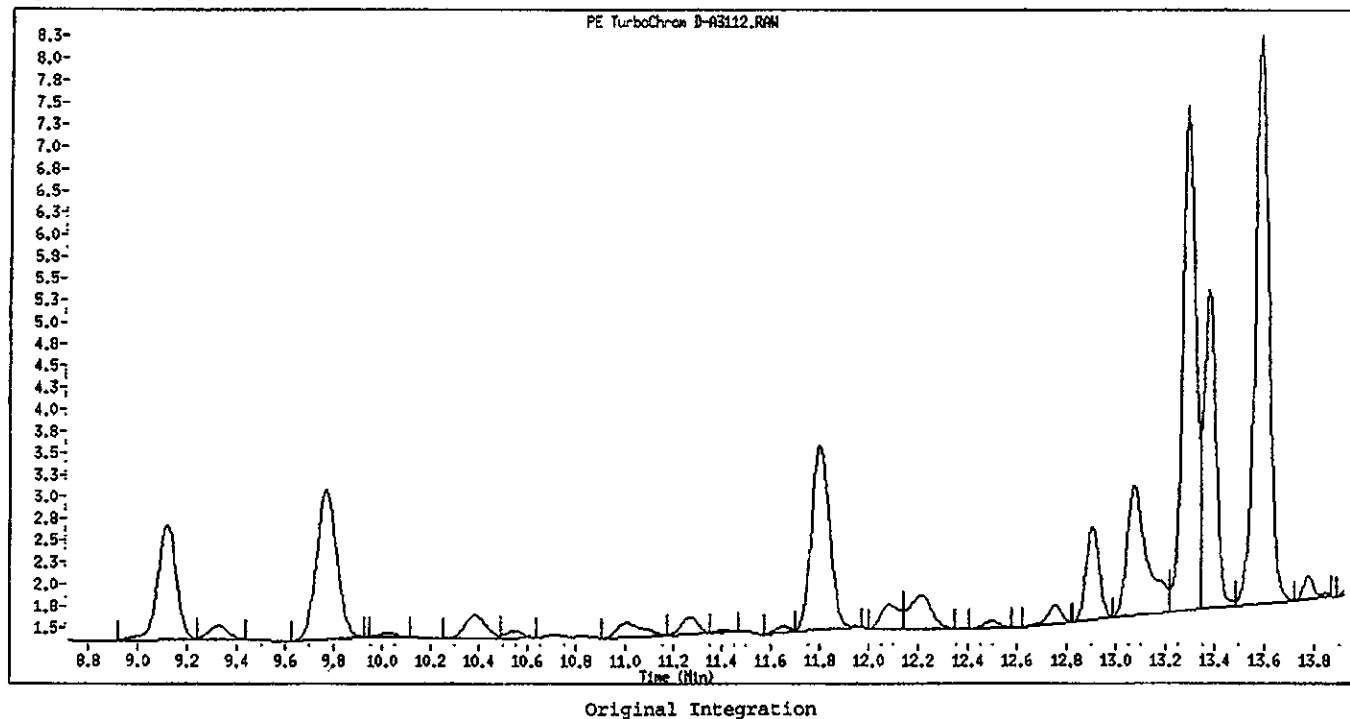
Instrument ID: gc4.1

Client ID:

Compound Name: Chlordane

CAS #: 57-74-9

Report Date: 03/26/2001



Manually Integrated By: MatkoL

Manual Integration Reason: Unknown

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3113.d
 Report Date: 26-Mar-2001 11:31

679 371

STL-Pittsburgh

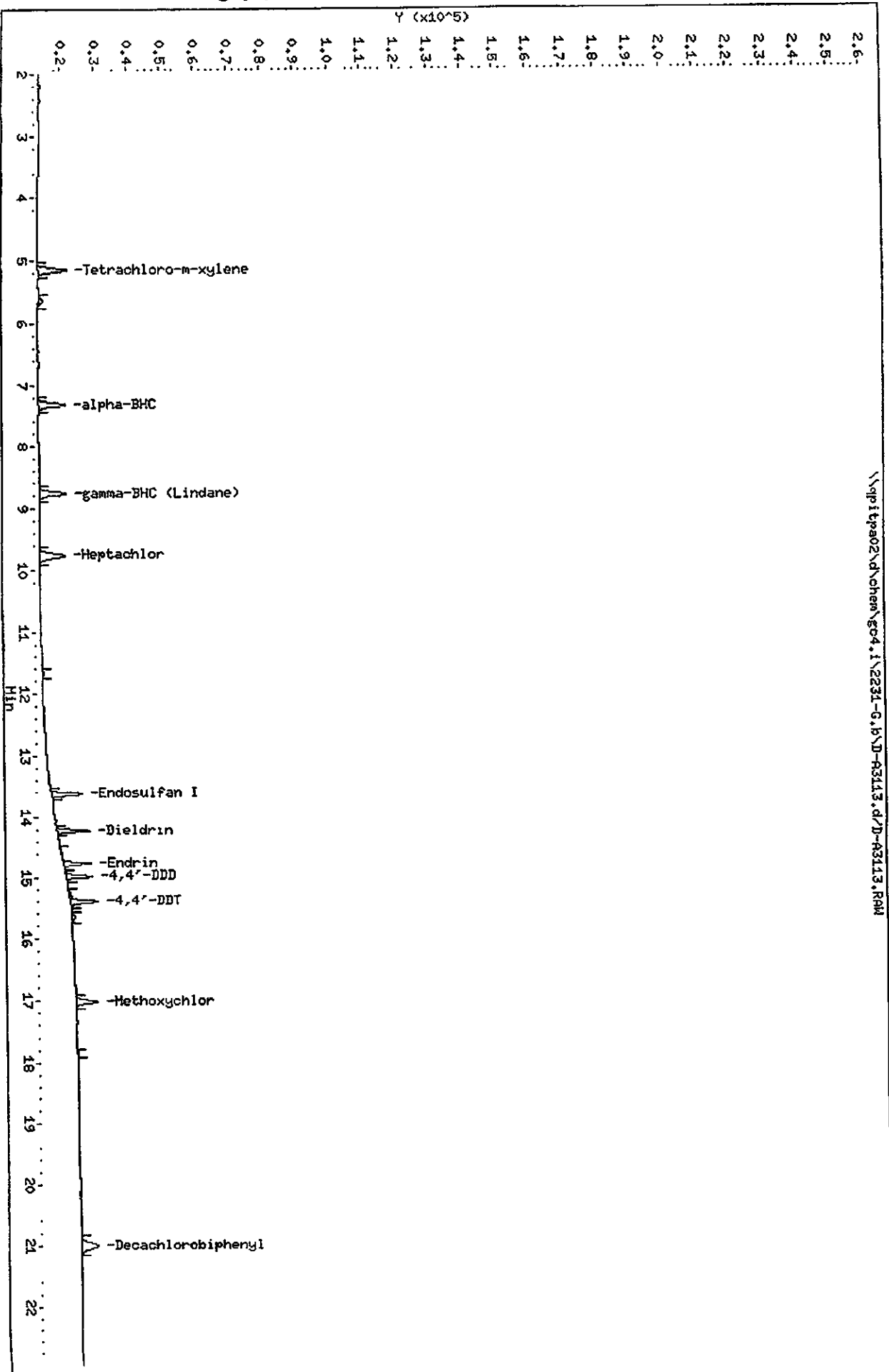
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3113.d
 Lab Smp Id: LOWA
 Inj Date : 23-MAR-2001 14:38
 Operator : 010139 Inst ID: gc4.i
 Smp Info : LOWA,2231-G.b,,3-INDA.sub,,1,1
 Misc Info : 190-100-6
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 17:55 Cal File: D-A3120.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	8572	0.00500	0.004994
6 alpha-BHC	7.313	7.313	0.000	8176	0.00500	0.004264
7 gamma-BHC (Lindane)	8.766	8.766	0.000	8170	0.00500	0.004431
9 Heptachlor	9.766	9.766	0.000	7372	0.00500	0.004897
20 Endosulfan I	13.626	13.626	0.000	9258	0.00500	0.004682
23 Dieldrin	14.220	14.220	0.000	9691	0.00500	0.004558
26 Endrin	14.760	14.760	0.000	8410	0.00500	0.004557
29 4,4'-DDD	14.966	14.966	0.000	7680	0.00500	0.004603
32 4,4'-DDT	15.393	15.393	0.000	8080	0.00500	0.004752
35 Methoxychlor	17.020	17.020	0.000	6807	0.01000	0.009798
\$ 38 Decachlorobiphenyl	20.993	21.000	-0.007	5214	0.00500	0.005041

679 372

Data File: \\pplcpa02\chem\god.i\2231-6,b\D-A3113.d
 Date: 23-MAR-2001 14:38
 Client ID:
 Sample Info: L04A, 2231-G,b, 3-INDA, sub, 1,1
 Column phase: RTX-50

Instrument: god.i
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3114.d
Report Date: 26-Mar-2001 11:31

679 373

STL-Pittsburgh

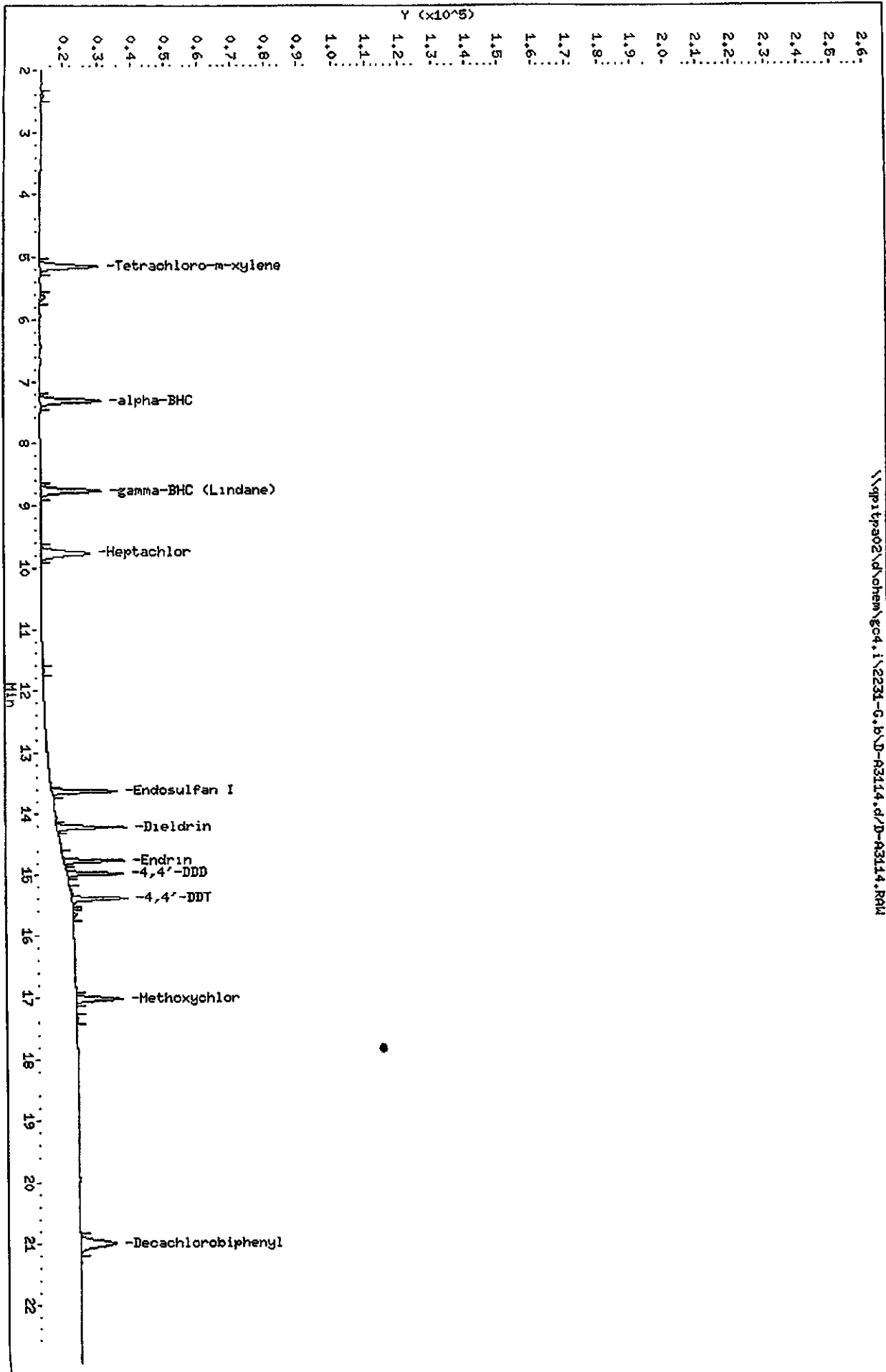
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3114.d
Lab Smp Id: MLOWA
Inj Date : 23-MAR-2001 15:06
Operator : 010139 Inst ID: gc4.i
Smp Info : MLOWA,2231-G.b,,3-INDA.sub,,1,2
Misc Info : 190-100-7
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 17:55 Cal File: D-A3120.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	**	*****	*****	*****	*****	*****
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	17177	0.01000	0.01000
6 alpha-BHC	7.313	7.313	0.000	18114	0.01000	0.009625
7 gamma-BHC (Lindane)	8.766	8.766	0.000	17697	0.01000	0.009729
9 Heptachlor	9.766	9.766	0.000	14624	0.01000	0.009808
20 Endosulfan I	13.626	13.626	0.000	19308	0.01000	0.009841
23 Dieldrin	14.220	14.220	0.000	20708	0.01000	0.009824
26 Endrin	14.760	14.760	0.000	17940	0.01000	0.009813
29 4,4'-DDD	14.966	14.966	0.000	16462	0.01000	0.009911
32 4,4'-DDT	15.393	15.393	0.000	16545	0.01000	0.009819
35 Methoxychlor	17.020	17.020	0.000	13864	0.02000	0.01997
\$ 38 Decachlorobiphenyl	20.993	21.000	-0.007	10389	0.01000	0.01003

679 374

Data File: \\vp1tpa02\chem\gc4.1\2231-G,b\B-A3114.d
 Date : 23-MAR-2001 15:06
 Client ID:
 Sample Info: MLOM, 2231-G,b,,3-INDA,sub,,1,2
 Column phase: RTX-50

Instrument: gc4.1
 Operator: 040139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3115.d
Report Date: 26-Mar-2001 11:31

679 375

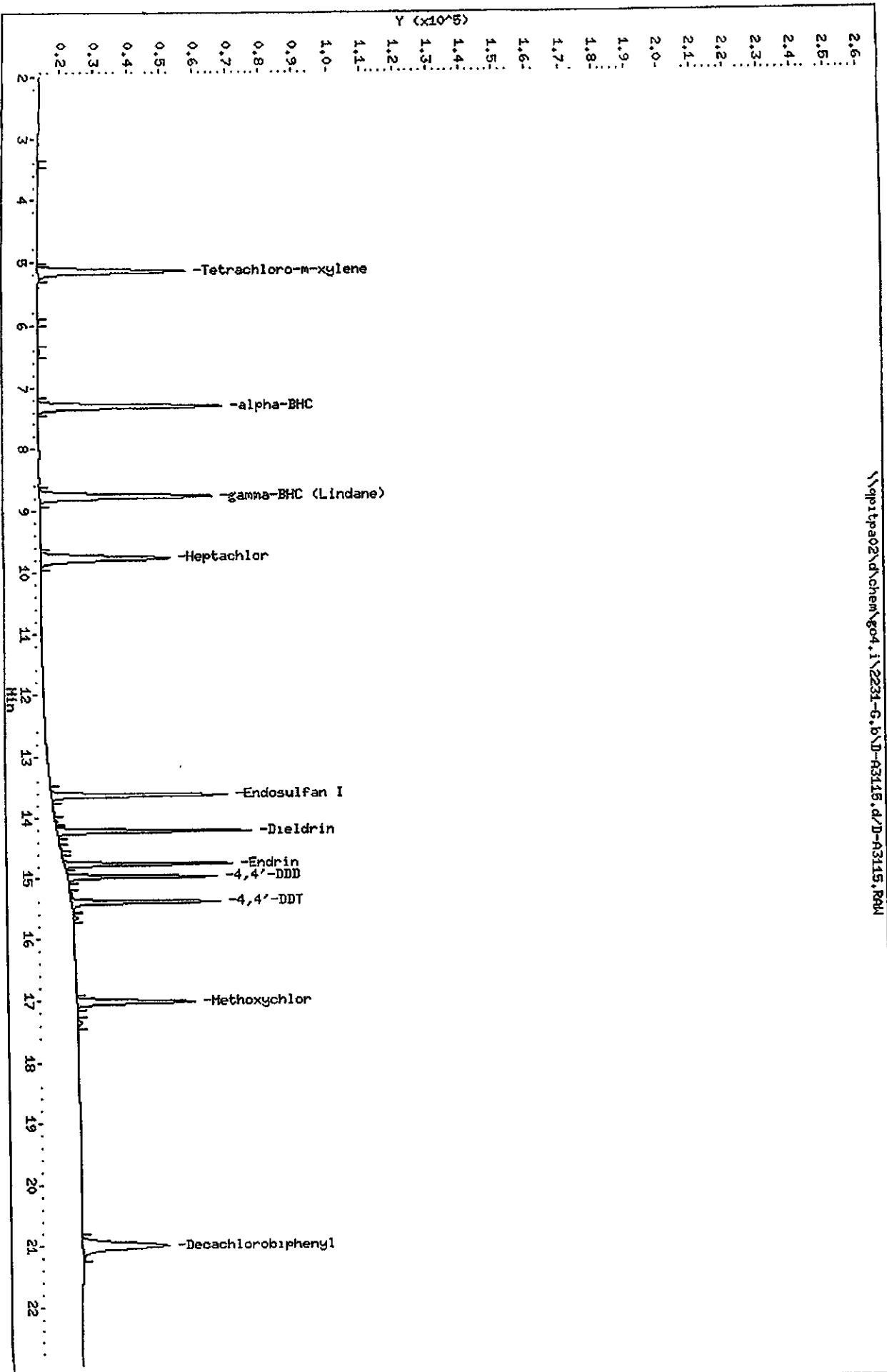
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3115.d
Lab Smp Id: MEDA
Inj Date : 23-MAR-2001 15:34
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDA,2231-G.b,,3-INDA.sub,,1,3
Misc Info : 190-100-8
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 15:34 Cal File: D-A3115.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

AMOUNTS						
Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	ON-COL
					(ng)	(ng)
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	44252	0.02500	0.02500
6 alpha-BHC	7.313	7.313	0.000	54987	0.02500	0.02500
7 gamma-BHC (Lindane)	8.766	8.766	0.000	51336	0.02500	0.02500
9 Heptachlor	9.766	9.766	0.000	38408	0.02500	0.02500
20 Endosulfan I	13.626	13.626	0.000	52585	0.02500	0.02500
23 Dieldrin	14.220	14.220	0.000	57862	0.02500	0.02500
26 Endrin	14.760	14.760	0.000	50217	0.02500	0.02500
29 4,4'-DDD	14.966	14.966	0.000	45023	0.02500	0.02500
32 4,4'-DDT	15.393	15.393	0.000	44610	0.02500	0.02500
35 Methoxychlor	17.020	17.020	0.000	35436	0.05000	0.05000
\$ 38 Decachlorobiphenyl	21.000	21.000	0.000	25617	0.02500	0.02500

Data File: \\pp1tpa02\chem\g04.1\2231-G.b\D-A3115.d
Date: 23-MAR-2001 15:34
Client ID:
Sample Info: HEDA, 2231-G.b, 3-INDA, sub, 1,3
Column phase: RTX-50

Instrument: g04.1
Operator: 010139
Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3116.d
Report Date: 26-Mar-2001 11:31

679 377

STL-Pittsburgh

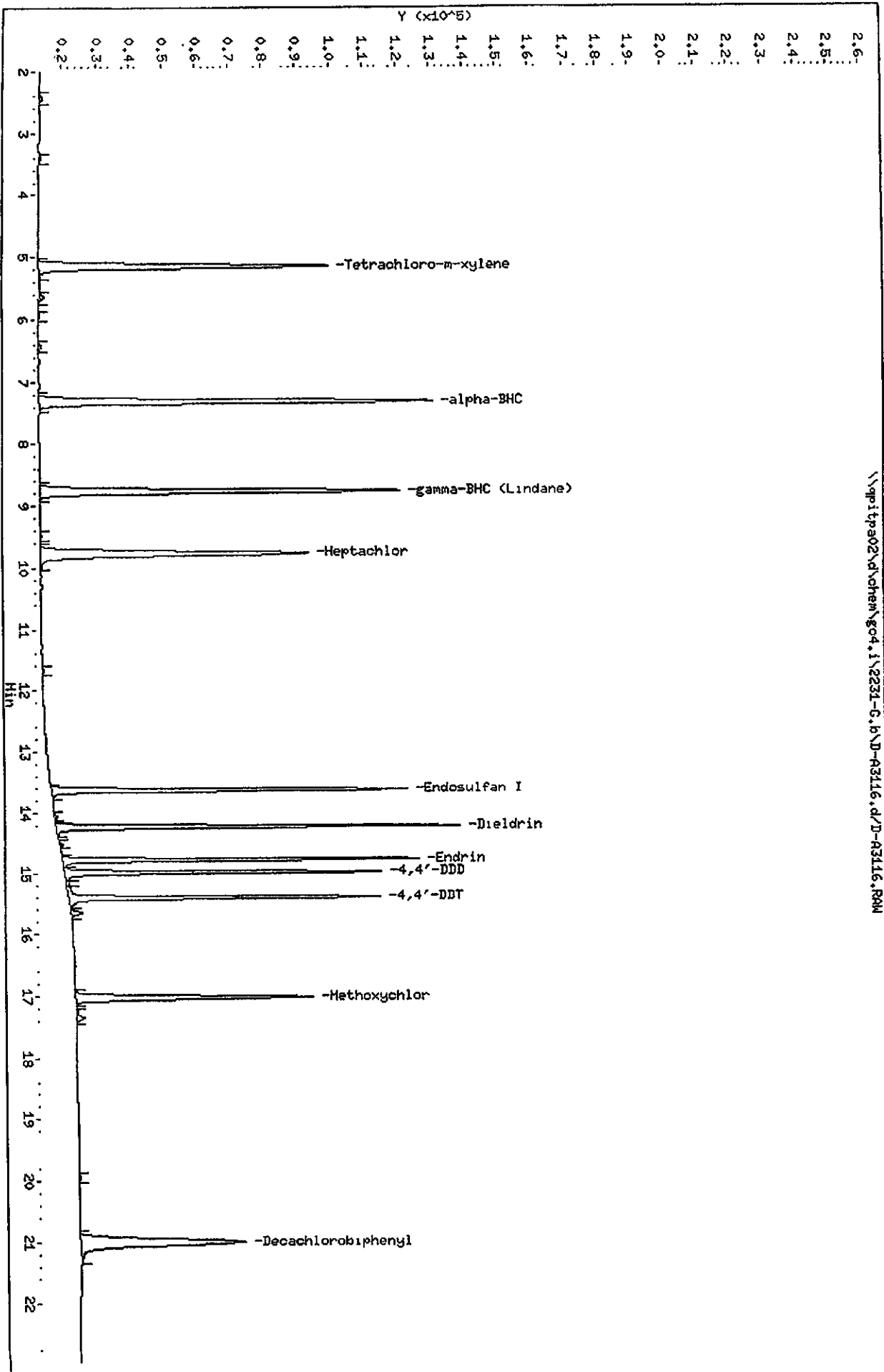
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3116.d
Lab Smp Id: MHIGHA
Inj Date : 23-MAR-2001 16:02
Operator : 010139 Inst ID: gc4.i
Smp Info : MHIGHA,2231-G.b,,3-INDA.sub,,1,4
Misc Info : 190-100-9
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 17:55 Cal File: D-A3120.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	86196	0.05000	0.05015
6 alpha-BHC	7.313	7.313	0.000	117193	0.05000	0.05867
7 gamma-BHC (Lindane)	8.766	8.766	0.000	107169	0.05000	0.05640
9 Heptachlor	9.766	9.766	0.000	79883	0.05000	0.05263
20 Endosulfan I	13.626	13.626	0.000	106424	0.05000	0.05312
23 Dieldrin	14.220	14.220	0.000	120682	0.05000	0.05525
26 Endrin	14.760	14.760	0.000	106287	0.05000	0.05586
29 4,4'-DDD	14.966	14.966	0.000	94570	0.05000	0.05503
32 4,4'-DDT	15.393	15.393	0.000	92825	0.05000	0.05372
35 Methoxychlor	17.020	17.020	0.000	70942	0.10000	0.1016
\$ 38 Decachlorobiphenyl	21.000	21.000	0.000	49527	0.05000	0.04834

679 378

Data File: \\ppitpa02\chem\gc4.i\2231-G.b\D-A3116.d
 Date : 23-MAR-2004 16:02
 Client ID:
 Sample Info: HHIGHA,2231-G.b,,3-INDA.sub,,1.4
 Column phases: RTX-B0

Instrument: gc4.i
 Operator: 010139
 Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3117.d
 Lab Smp Id: HIGHA
 Inj Date : 23-MAR-2001 16:31
 Operator : 010139 Inst ID: gc4.i
 Smp Info : HIGHA,2231-G.b,,3-INDA.sub,,1,5
 Misc Info : 190-100-10
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 17:55 Cal File: D-A3120.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	163552	0.10000	0.09609
6 alpha-BHC	7.313	7.313	0.000	234703	0.10000	0.1135 (A)
7 gamma-BHC (Lindane)	8.766	8.766	0.000	212412	0.10000	0.1092 (A)
9 Heptachlor	9.766	9.766	0.000	161443	0.10000	0.1050 (A)
20 Endosulfan I	13.626	13.626	0.000	210614	0.10000	0.1040 (A)
23 Dieldrin	14.226	14.220	0.006	241213	0.10000	0.1082 (A)
26 Endrin	14.760	14.760	0.000	212944	0.10000	0.1093 (A)
29 4,4'-DDD	14.966	14.966	0.000	186638	0.10000	0.1068 (A)
32 4,4'-DDT	15.393	15.393	0.000	184962	0.10000	0.1056 (A)
35 Methoxychlor	17.020	17.020	0.000	138547	0.20000	0.1988
\$ 38 Decachlorobiphenyl	21.000	21.000	0.000	95865	0.10000	0.09479

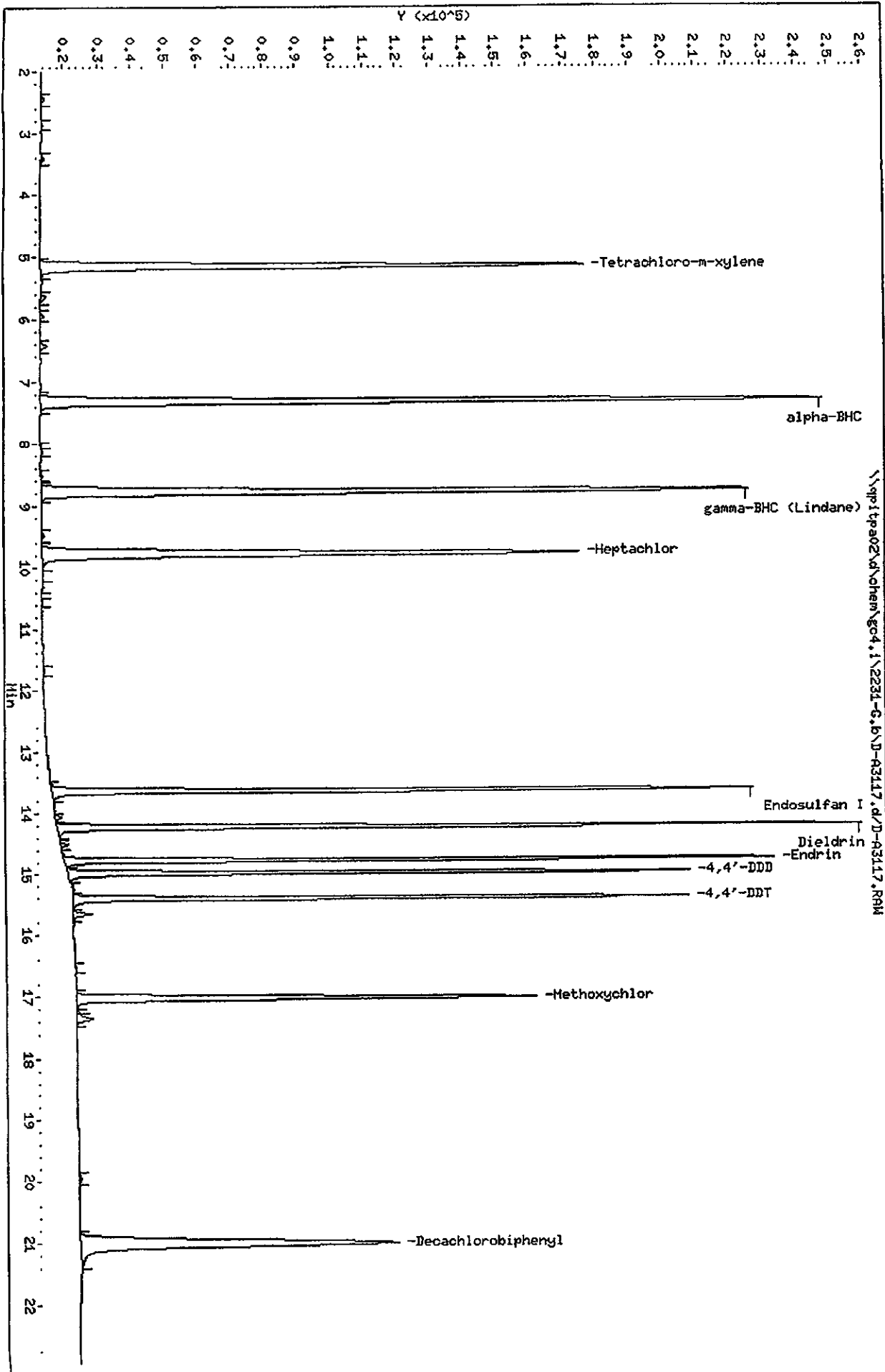
QC Flag Legend

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

679 380

Data File: \\pp1cpa02\chem\gc04.1\2231-G.b.D-A3117.d
 Date : 23-MAR-2001 16:31
 Client ID:
 Sample Info: HIGH,2231-G.b.,3-INDR.sub.,1,5
 Column phase: RTX-50

Instrument: gc04.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3118.d
 Report Date: 26-Mar-2001 11:31

679 381

STL-Pittsburgh

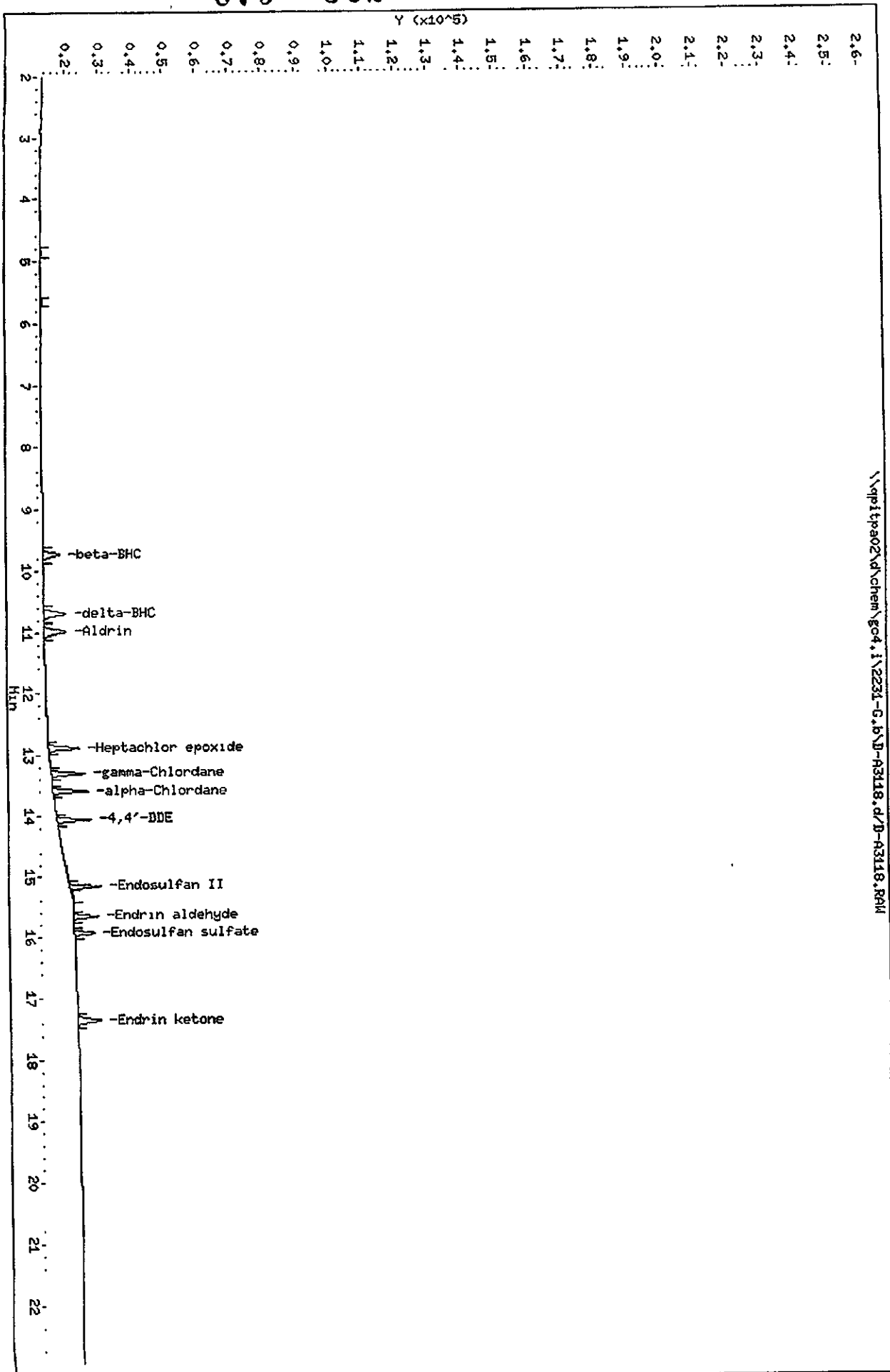
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3118.d
 Lab Smp Id: LOWB
 Inj Date : 23-MAR-2001 16:59
 Operator : 010139 Inst ID: gc4.i
 Smp Info : LOWB,2231-G.b,,4-INDB.sub,,1,1
 Misc Info : 190-100-12
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 17:55 Cal File: D-A3120.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	10.986	10.993	-0.007	6656	0.00500	0.004702
10 beta-BHC	9.726	9.733	-0.007	5101	0.00500	0.004980
11 delta-BHC	10.693	10.700	-0.007	6841	0.00500	0.004389
17 Heptachlor epoxide	12.880	12.880	0.000	9069	0.00500	0.004805
18 gamma-Chlordane	13.293	13.293	0.000	10096	0.00500	0.004851
19 alpha-Chlordane	13.593	13.593	0.000	10607	0.00500	0.004884
22 4,4'-DDE	14.060	14.060	0.000	10335	0.00500	0.004690
31 Endosulfan II	15.153	15.153	0.000	9333	0.00500	0.004766
33 Endrin aldehyde	15.646	15.646	0.000	7698	0.00500	0.004999
34 Endosulfan sulfate	15.926	15.926	0.000	6120	0.00500	0.004727
37 Endrin ketone	17.353	17.353	0.000	7053	0.00500	0.004732

679 382

Data File: \\pp1tpa02\chem\g04.1\2231-G.b\B-A3118.d
 Date : 23-MAR-2001 16:59
 Client ID:
 Sample Info: LOMB,2231-G.b,4-INDB,sub,1,1
 Column phase: RTX-50

Instrument: g04.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3119.d
Report Date: 26-Mar-2001 11:32

679 383

STL-Pittsburgh

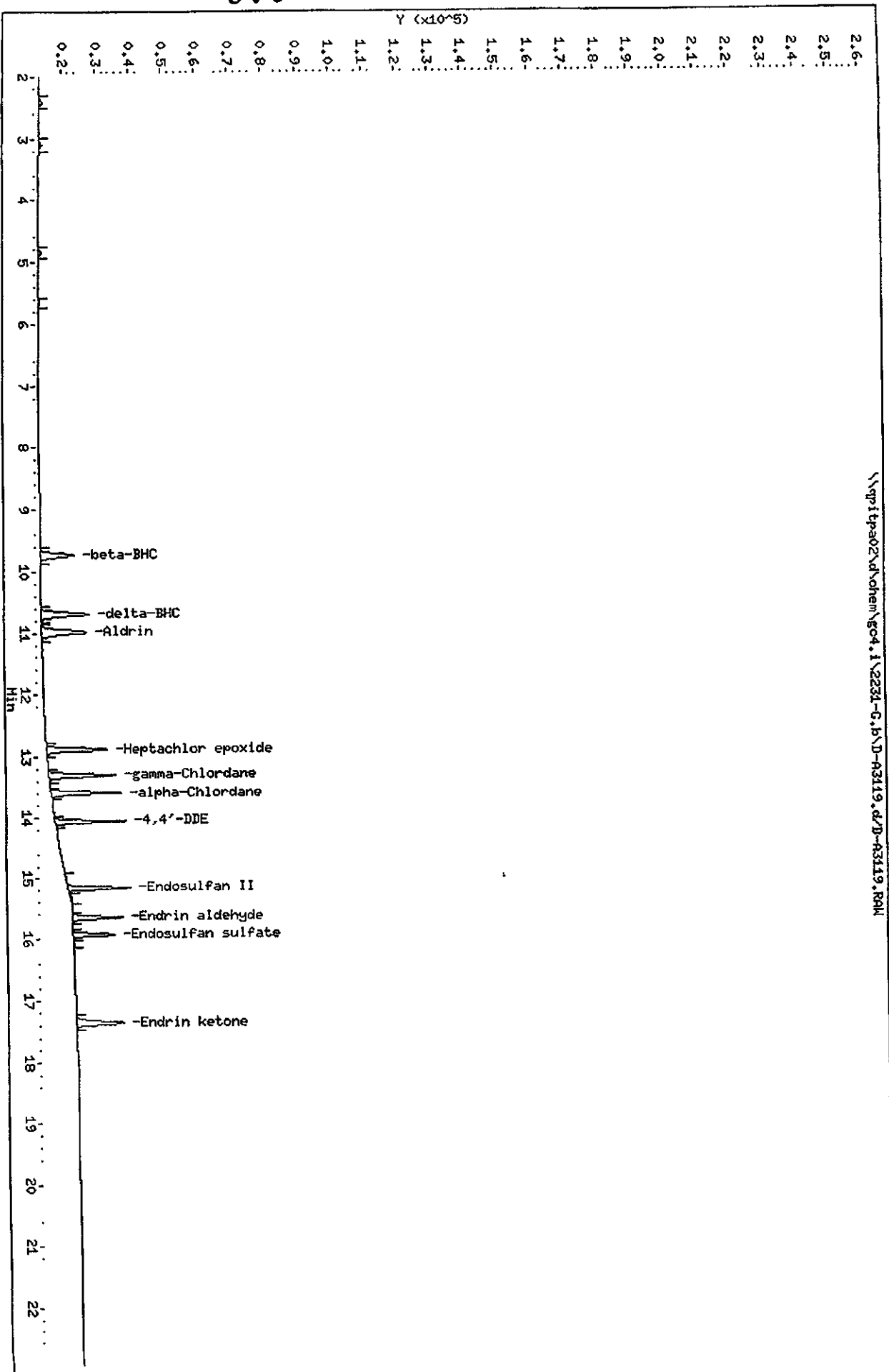
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3119.d
Lab Smp Id: MLOWB
Inj Date : 23-MAR-2001 17:27
Operator : 010139 Inst ID: gc4.i
Smp Info : MLOWB,2231-G.b,,4-INDB.sub,,1,2
Misc Info : 190-100-13
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 17:55 Cal File: D-A3120.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	10.986	10.993	-0.007	13191	0.01000	0.009536
10 beta-BHC	9.726	9.733	-0.007	9870	0.01000	0.009755
11 delta-BHC	10.693	10.700	-0.007	14237	0.01000	0.009405
17 Heptachlor epoxide	12.880	12.880	0.000	17757	0.01000	0.009598
18 gamma-Chlordane	13.293	13.293	0.000	19671	0.01000	0.009628
19 alpha-Chlordane	13.593	13.593	0.000	20771	0.01000	0.009706
22 4,4'-DDE	14.060	14.060	0.000	21025	0.01000	0.009689
31 Endosulfan II	15.153	15.153	0.000	18616	0.01000	0.009666
33 Endrin aldehyde	15.646	15.646	0.000	14786	0.01000	0.009732
34 Endosulfan sulfate	15.926	15.926	0.000	12140	0.01000	0.009575
37 Endrin ketone	17.353	17.353	0.000	14007	0.01000	0.009590

679 384

Data File: \\qpi1pa02\chem\god.1\2231-G.b\B-A3119.d
 Date : 23-MAR-2001 17:27
 Client ID:
 Sample Info: H.L.O.M.B.2231-G.b,4-INDB,sub,1,2
 Column phase: RTX-50

Instrument: god.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3120.d
Report Date: 26-Mar-2001 11:32

679 385

STL-Pittsburgh

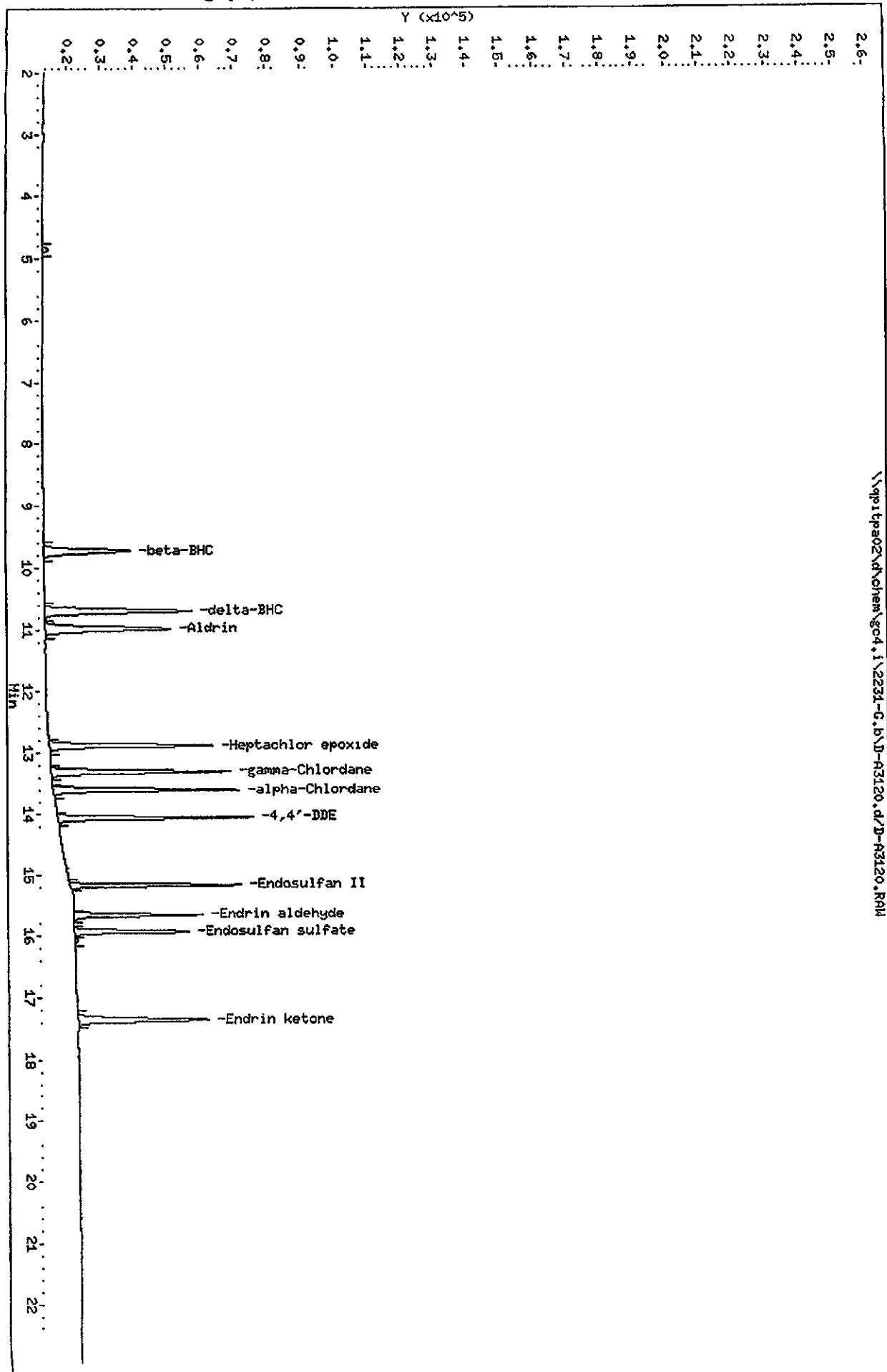
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3120.d
Lab Smp Id: MEDB
Inj Date : 23-MAR-2001 17:55
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDB,2231-G.b,,4-INDB.sub,,1,3
Misc Info : 190-100-14
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 17:55 Cal File: D-A3120.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
13 Aldrin	10.993	10.993	0.000	37493	0.02500	0.02500
10 beta-BHC	9.733	9.733	0.000	25706	0.02500	0.02500
11 delta-BHC	10.700	10.700	0.000	43735	0.02500	0.02500
17 Heptachlor epoxide	12.880	12.880	0.000	49019	0.02500	0.02500
18 gamma-Chlordane	13.293	13.293	0.000	53575	0.02500	0.02500
19 alpha-Chlordane	13.593	13.593	0.000	55546	0.02500	0.02500
22 4,4'-DDE	14.060	14.060	0.000	58514	0.02500	0.02500
31 Endosulfan II	15.153	15.153	0.000	51238	0.02500	0.02500
33 Endrin aldehyde	15.646	15.646	0.000	38499	0.02500	0.02500
34 Endosulfan sulfate	15.926	15.926	0.000	34137	0.02500	0.02500
37 Endrin ketone	17.353	17.353	0.000	39265	0.02500	0.02500

679 386

Data File: \\ppitpa02\chem\gc04.i\2231-G.b.D-A3120.d
 Date: 23-MAR-2004 17:55
 Client ID:
 Sample Info: MEDB,2231-G.b,4-INDB.sub,1,3
 Column phase: RTX-60

Instrument: gc04.i
 Operator: 040139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3121.d
 Report Date: 26-Mar-2001 11:32

679 387

STL-Pittsburgh

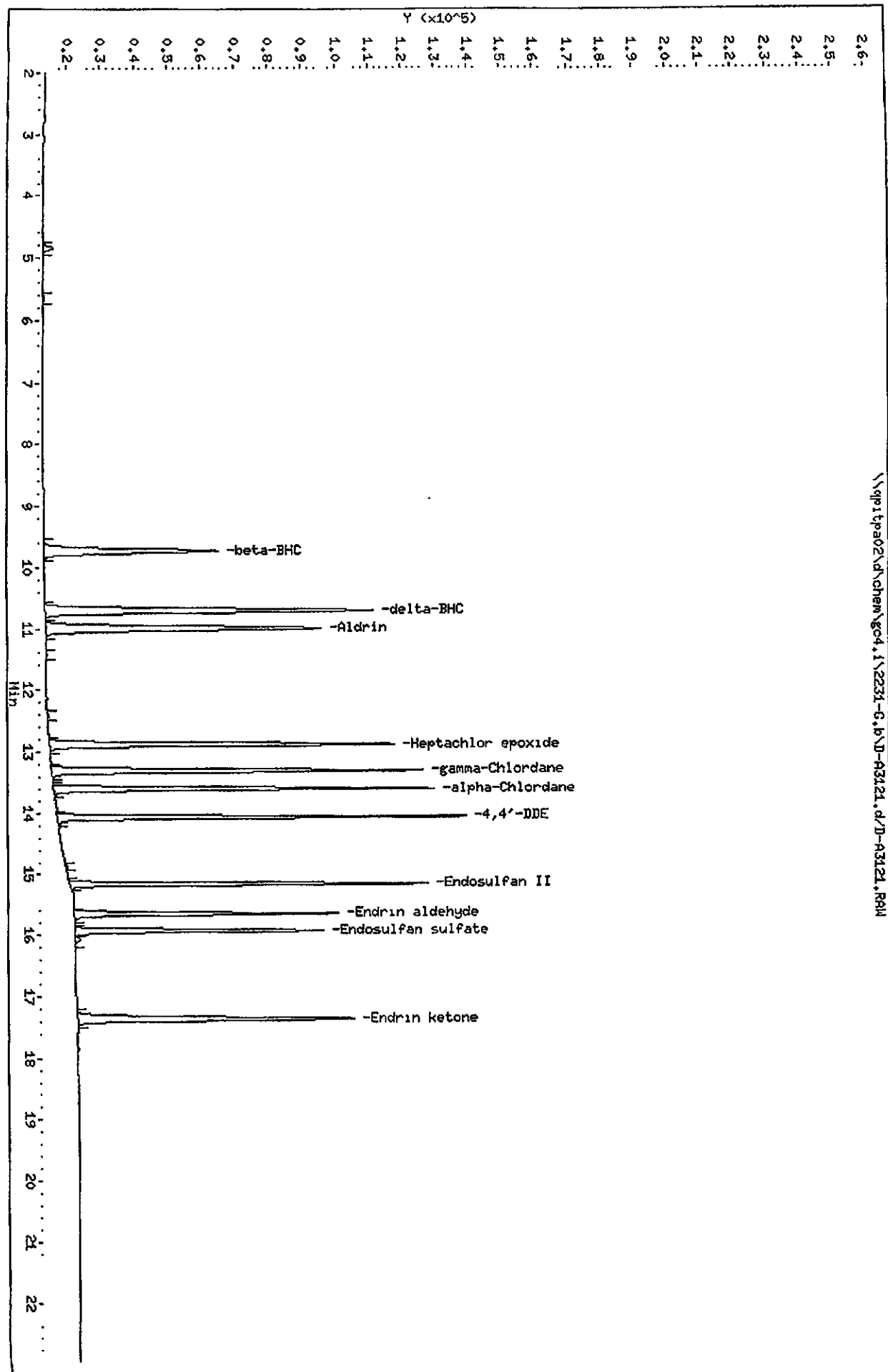
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3121.d
 Lab Smp Id: MHIGHB
 Inj Date : 23-MAR-2001 18:23
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MHIGHB,2231-G.b,,4-INDB.sub,,1,4
 Misc Info : 190-101-1
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:23 Cal File: D-A3121.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	10.986	10.993	-0.007	82052	0.05000	0.05667
10 beta-BHC	9.726	9.733	-0.007	51890	0.05000	0.05096
11 delta-BHC	10.693	10.700	-0.007	97865	0.05000	0.06024
17 Heptachlor epoxide	12.880	12.880	0.000	103094	0.05000	0.05417
18 gamma-Chlordane	13.293	13.293	0.000	111080	0.05000	0.05321
19 alpha-Chlordane	13.593	13.593	0.000	113956	0.05000	0.05240
22 4,4'-DDE	14.060	14.060	0.000	122060	0.05000	0.05454
31 Endosulfan II	15.153	15.153	0.000	106742	0.05000	0.05396
33 Endrin aldehyde	15.646	15.646	0.000	79136	0.05000	0.05155
34 Endosulfan sulfate	15.926	15.926	0.000	74124	0.05000	0.05609
37 Endrin ketone	17.353	17.353	0.000	82815	0.05000	0.05486

679 388

Data File: \\pp1tpa02\chem\g04.1\2231-G.b\D-A3121.d
 Date: 23-MAR-2001 18:23
 Client ID:
 Sample Info: H1GHB, 2231-G.b, 4-INDB.sub, 1, 4
 Column phase: RTX-50

Instrument: g04.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3122.d
 Report Date: 26-Mar-2001 11:32

679 389

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3122.d
 Lab Smp Id: HIGHB
 Inj Date : 23-MAR-2001 18:52
 Operator : 010139 Inst ID: gc4.i
 Smp Info : HIGHB,2231-G.b,,4-INDB.sub,,1,5
 Misc Info : 190-101-2
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
-----	---	-----	-----	-----	-----	-----
13 Aldrin	10.986	10.993	-0.007	165446	0.10000	0.1111 (A)
10 beta-BHC	9.726	9.733	-0.007	98592	0.10000	0.09744
11 delta-BHC	10.693	10.700	-0.007	196656	0.10000	0.1162 (A)
17 Heptachlor epoxide	12.880	12.880	0.000	203206	0.10000	0.1054 (A)
18 gamma-Chlordane	13.293	13.293	0.000	217449	0.10000	0.1033 (A)
19 alpha-Chlordane	13.593	13.593	0.000	220585	0.10000	0.1011 (A)
22 4,4'-DDE	14.060	14.060	0.000	239533	0.10000	0.1056 (A)
31 Endosulfan II	15.153	15.153	0.000	209351	0.10000	0.1046 (A)
33 Endrin aldehyde	15.646	15.646	0.000	153160	0.10000	0.09981
34 Endosulfan sulfate	15.926	15.926	0.000	150096	0.10000	0.1106 (A)
37 Endrin ketone	17.353	17.353	0.000	162771	0.10000	0.1062 (A)

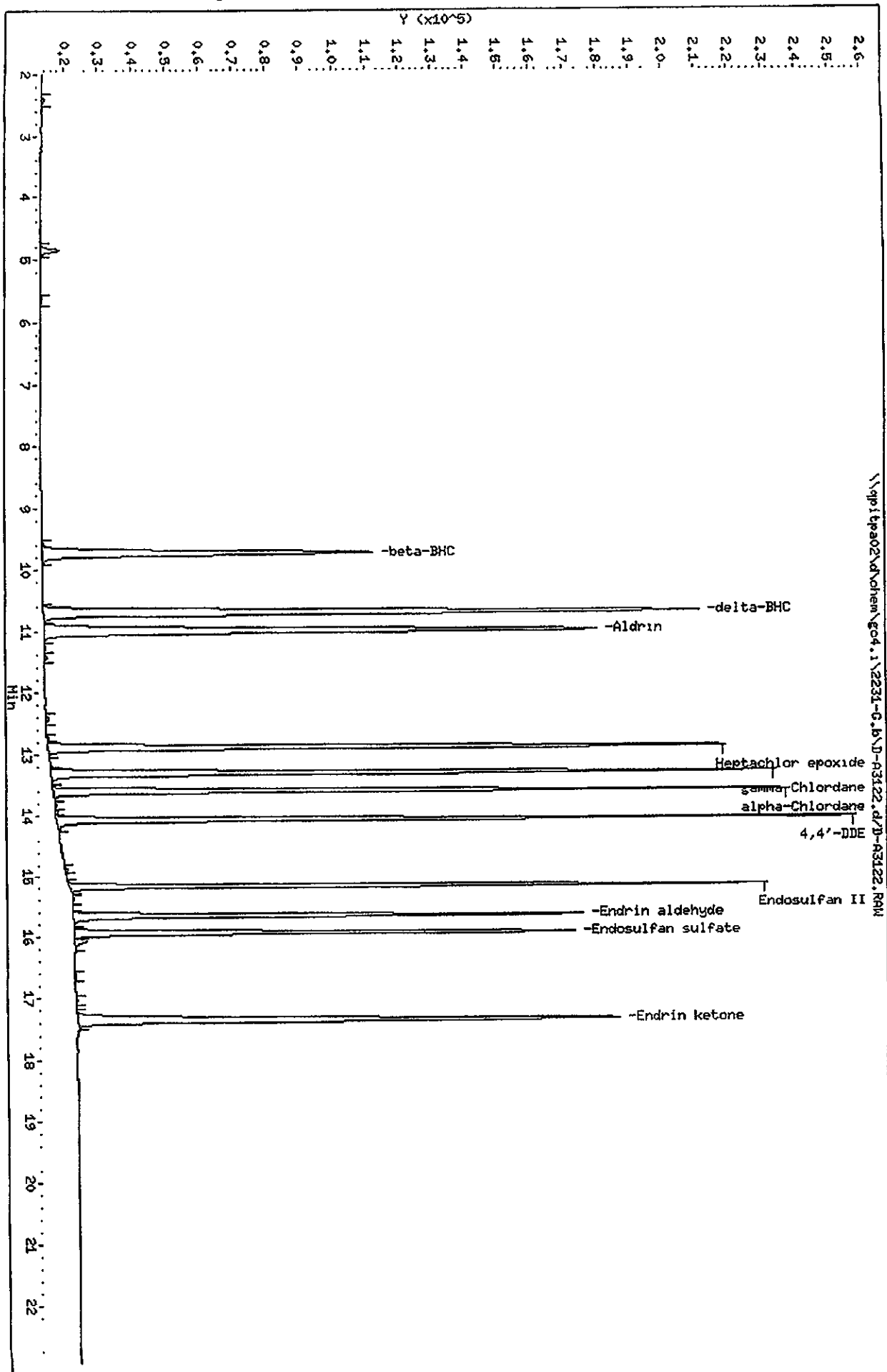
QC Flag Legend

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

679 390

Data File: \\sp1tpa02\chem\g04.1\2231-G.b\A3122.d
 Date : 23-MAR-2001 18:52
 Client ID:
 Sample Info: HICHB, 2231-G.b, 4-INDB, sub, 1,5
 Column phase: RTX-50

Instrument: g04.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3123.d
Report Date: 26-Mar-2001 11:32

679 391

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3123.d
Lab Smp Id: 2ND A
Inj Date : 23-MAR-2001 19:20
Operator : 010139 Inst ID: gc4.i
Smp Info : 2ND A,2231-G.b,, INDA.sub,,2,3
Misc Info : 190-101-7
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDA.sub
Target Version: 4.04
Processing Host: PITPC044

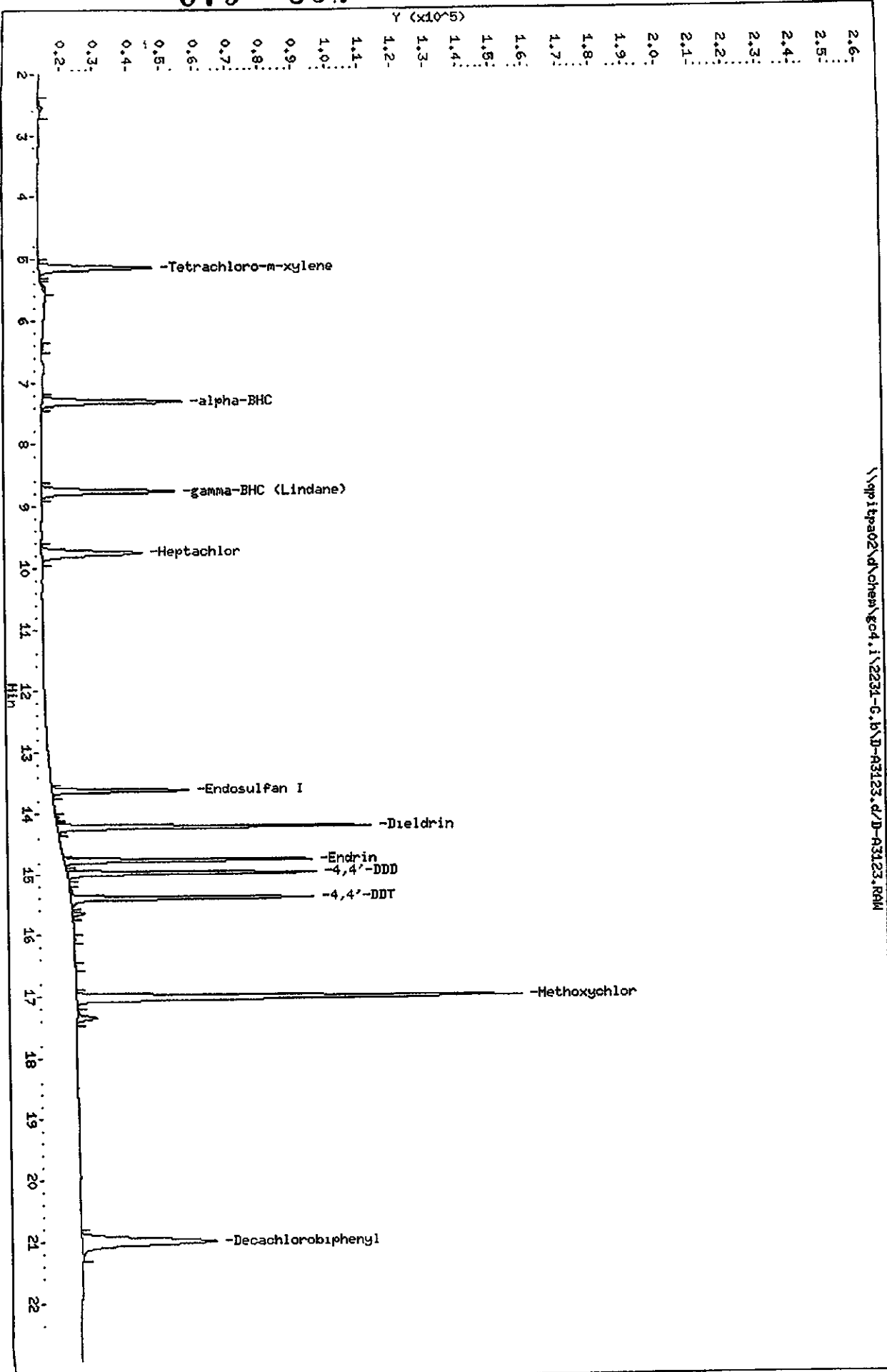
AMOUNTS						
Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	ON-COL
					(ng)	(ng)
*****	..	*****	*****	*****	*****	*****
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	33977	0.02500	0.01996
6 alpha-BHC	7.313	7.313	0.000	42010	0.02500	0.02032
7 gamma-BHC (Lindane)	8.766	8.766	0.000	39963	0.02500	0.02055
9 Heptachlor	9.766	9.766	0.000	30159	0.02500	0.01962
20 Endosulfan I	13.626	13.626	0.000	40880	0.02500	0.02020
23 Dieldrin	14.220	14.220	0.000	94319	0.02500	0.04230
26 Endrin	14.760	14.760	0.000	74409	0.02500	0.03820
29 4,4'-DDD	14.966	14.966	0.000	74848	0.02500	0.04281
32 4,4'-DDT	15.393	15.393	0.000	72966	0.02500	0.04164
35 Methoxychlor	17.020	17.020	0.000	134018	0.05000	0.1923
\$ 38 Decachlorobiphenyl	20.993	21.000	-0.007	40216	0.02500	0.03976

679 393

Data File: \\ppitpa02\chem\gc4.1\2231-G.b\D-A3123.d
 Date: 23-MAR-2001 19:20
 Client ID:
 Sample Info: 2ND A,2231-G.b,INDA,sub,2,3
 Column phase: RTX-50

Instrument: gc4.1
 Operator: 010139
 Column diameter: 0.53

\\ppitpa02\chem\gc4.1\2231-G.b\D-A3123.d\D-A3123.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3124.d
Report Date: 26-Mar-2001 11:33

679 393

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3124.d
Lab Smp Id: 2ND B
Inj Date : 23-MAR-2001 19:48
Operator : 010139 Inst ID: gc4.i
Smp Info : 2ND B, 2231-G.b, , INDB.sub, , 2, 3
Misc Info : 190-101-10
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC044

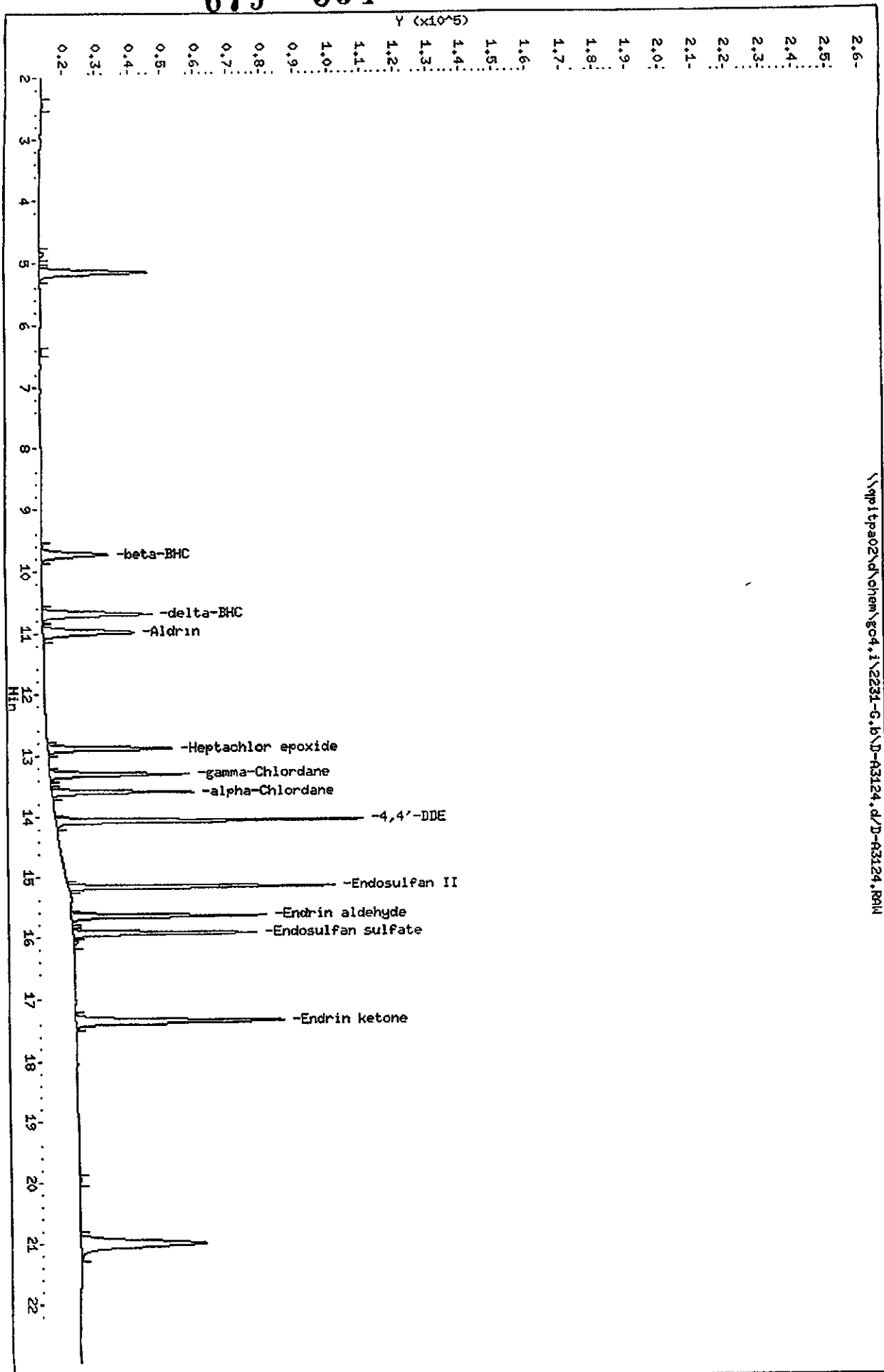
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	10.986	10.993	-0.007	27686	0.02500	0.01859
10 beta-BHC	9.726	9.733	-0.007	19761	0.02500	0.01953
11 delta-BHC	10.693	10.700	-0.007	32916	0.02500	0.01944
17 Heptachlor epoxide	12.880	12.880	0.000	37578	0.02500	0.01948
18 gamma-Chlordane	13.293	13.293	0.000	42201	0.02500	0.02005
19 alpha-Chlordane	13.593	13.593	0.000	42706	0.02500	0.01958
22 4,4'-DDE	14.060	14.060	0.000	92407	0.02500	0.04072
31 Endosulfan II	15.153	15.153	0.000	80285	0.02500	0.04012
33 Endrin aldehyde	15.646	15.646	0.000	58660	0.02500	0.03823
34 Endosulfan sulfate	15.926	15.926	0.000	55238	0.02500	0.04069
37 Endrin ketone	17.353	17.353	0.000	62578	0.02500	0.04082

679 394

Data File: \\qpltpa02\chem\gc4.i\2231-G.b\D-A3124.d
 Date: 23-MAR-2001 19:48
 Client ID:
 Sample Info: 2ND B,2231-G.b,,INDB.sub,,2,3
 Column phase: RTX-50

Instrument: gc4.i
 Operator: 010139
 Column diameter: 0.53

\\qpltpa02\chem\gc4.i\2231-G.b\D-A3124.d\D-A3124.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3125.d
Report Date: 26-Mar-2001 11:33

679 395

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3125.d
Lab Smp Id: EVALB
Inj Date : 23-MAR-2001 20:16
Operator : 010139 Inst ID: gc4.i
Smp Info : EVALB,2231-G.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 2 Tetrachloro-m-xylene	5.146	5 146	0.000	33442	0.01965	0.01965 (R)
22 4,4'-DDE	14.066	14.060	0.006	619	<0.0	0 0002728
26 Endrin	14.760	14 760	0.000	48340	0.02482	0.02482
29 4,4'-DDD	Compound Not Detected					
32 4,4'-DDT	15.393	15.393	0.000	43541	0.02485	0.02485
33 Endrin aldehyde	15.646	15.646	0.000	1461	<0.0	0.0009521
37 Endrin ketone	17 353	17 353	0.000	1174	<0.0	0.0007657
\$ 38 Decachlorobiphenyl	20 993	21 000	-0 007	20373	0.02014	0.02014 (R)

QC Flag Legend

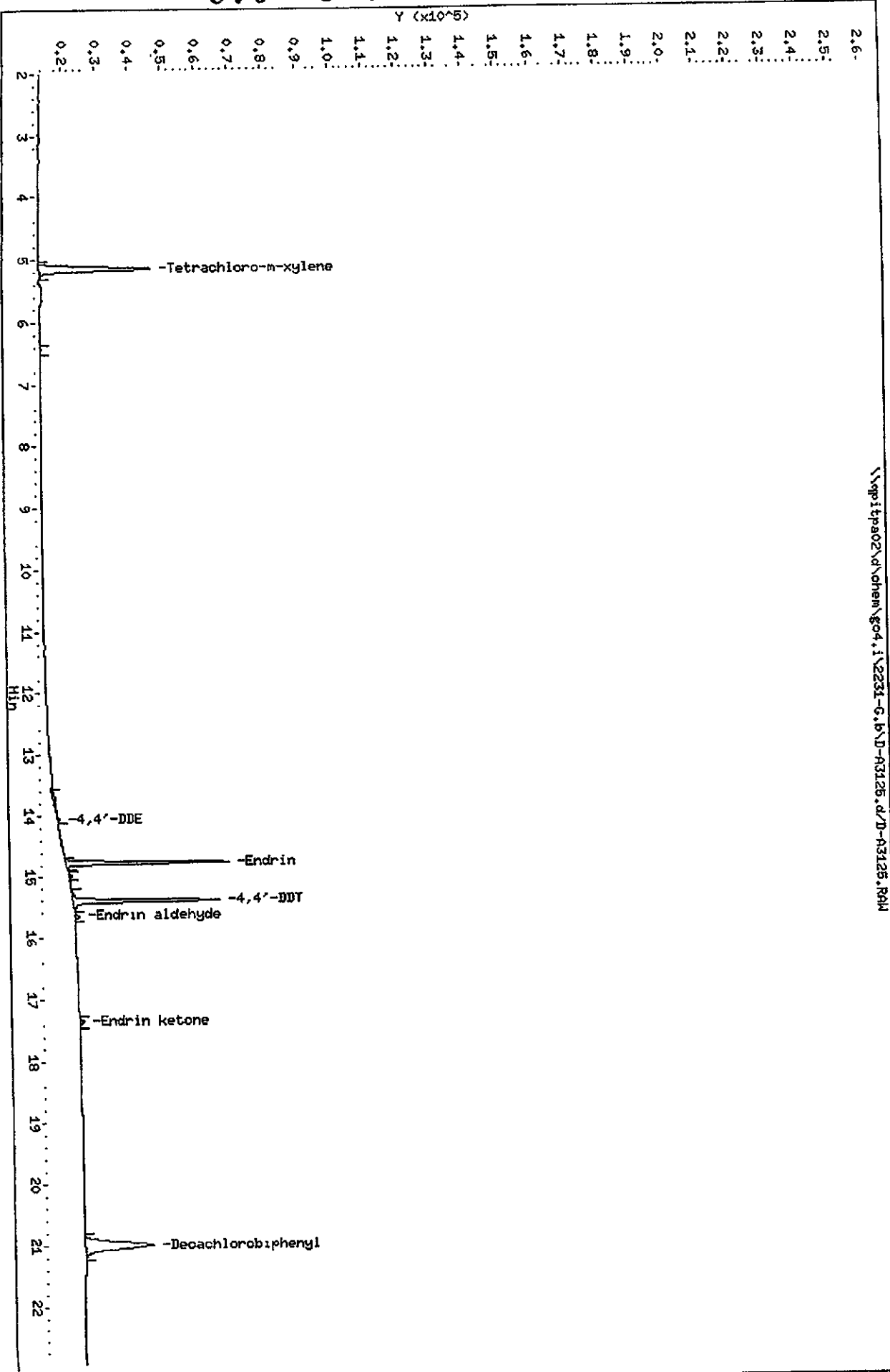
R - Spike/Surrogate failed recovery limits.

DDT = 1.4
Endrin = 5.2

679 396

Data File: \\pittpa02\chem\gc04.1\2231-G,b\D-A3125.d
 Date: 23-MAR-2001 20:16
 Client ID:
 Sample Info: EVALB,2231-G,b,EVALBR,sub,,3.1
 Column phase: RTX-50

Instrument: gc04.i
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3146.d
Report Date: 26-Mar-2001 11:37

679 397

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3146.d
Lab Smp Id: MEDA
Inj Date : 24-MAR-2001 06:06
Operator : 010139
Smp Info : MEDA,2231-G.b,,INDA.sub,,2,3
Misc Info : 190-100-8
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol
Cal Date : 23-MAR-2001 18:52
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC044

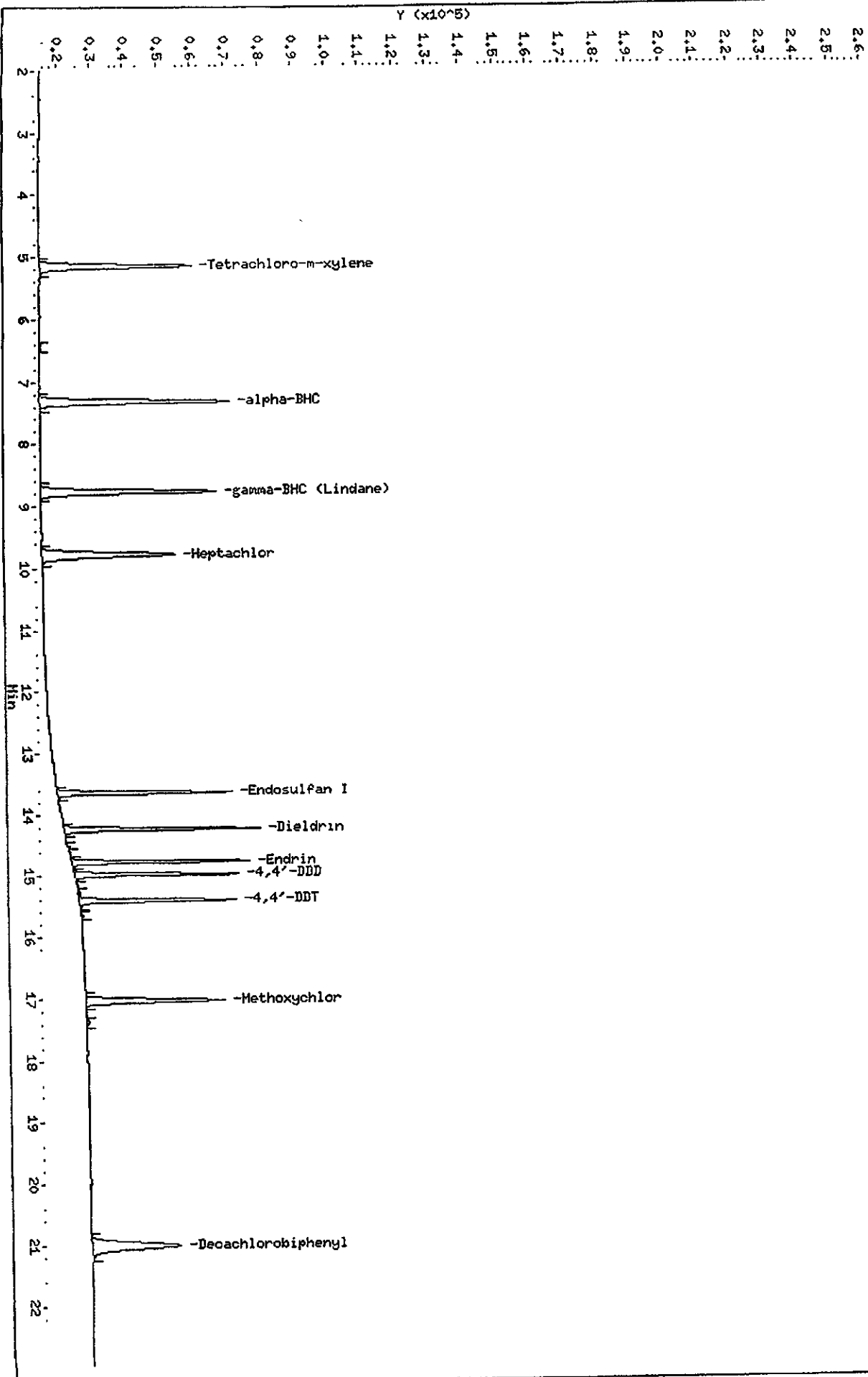
Inst ID: gc4.i
Quant Type: ESTD
Cal File: D-A3122.d
Continuing Calibration Sample
Compound Sublist: INDA.sub

					AMOUNTS	
					CAL-AMT	ON-COL
					(ng)	(ng)
Compounds	RT	EXP RT	DLT RT	RESPONSE		
*****	==	=====	=====	=====	=====	=====
\$ 2 Tetrachloro-m-xylene	5.153	5.146	0.007	45107	0.02500	0.02650
6 alpha-BHC	7.320	7.313	0.007	56022	0.02500	0.02710
7 gamma-BHC (Lindane)	8.773	8.766	0.007	51753	0.02500	0.02661
9 Heptachlor	9.773	9.766	0.007	39303	0.02500	0.02557
20 Endosulfan I	13.633	13.626	0.007	51862	0.02500	0.02562
23 Dieldrin	14.226	14.220	0.006	58293	0.02500	0.02614
26 Endrin	14.760	14.760	0.000	52664	0.02500	0.02704
29 4,4'-DDD	14.973	14.966	0.007	48271	0.02500	0.02761
32 4,4'-DDT	15.393	15.393	0.000	46489	0.02500	0.02653
35 Methoxychlor	17.026	17.020	0.006	41075	0.05000	0.05893
\$ 38 Decachlorobiphenyl	21.006	21.000	0.006	26454	0.02500	0.02616

Date File: \\np1tpa02\chem\gc4.1\2231-G.b\D-A3146.d
Date : 24-MAR-2001 06:06
Client ID:
Sample Info: HEDA, 2231-G.b, INDA, sub., 2,3
Column phase: RTX-50

Instrument: gc4.1
Operator: 010139
Column diameter: 0.53

\\np1tpa02\chem\gc4.1\2231-G.b\D-A3146.d\D-A3146.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3147.d
Report Date: 26-Mar-2001 11:37

679 399

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3147.d
Lab Smp Id: MEDB
Inj Date : 24-MAR-2001 06:34
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDB,2231-G.b,,INDB.sub,,2,3
Misc Info : 190-100-14
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC044

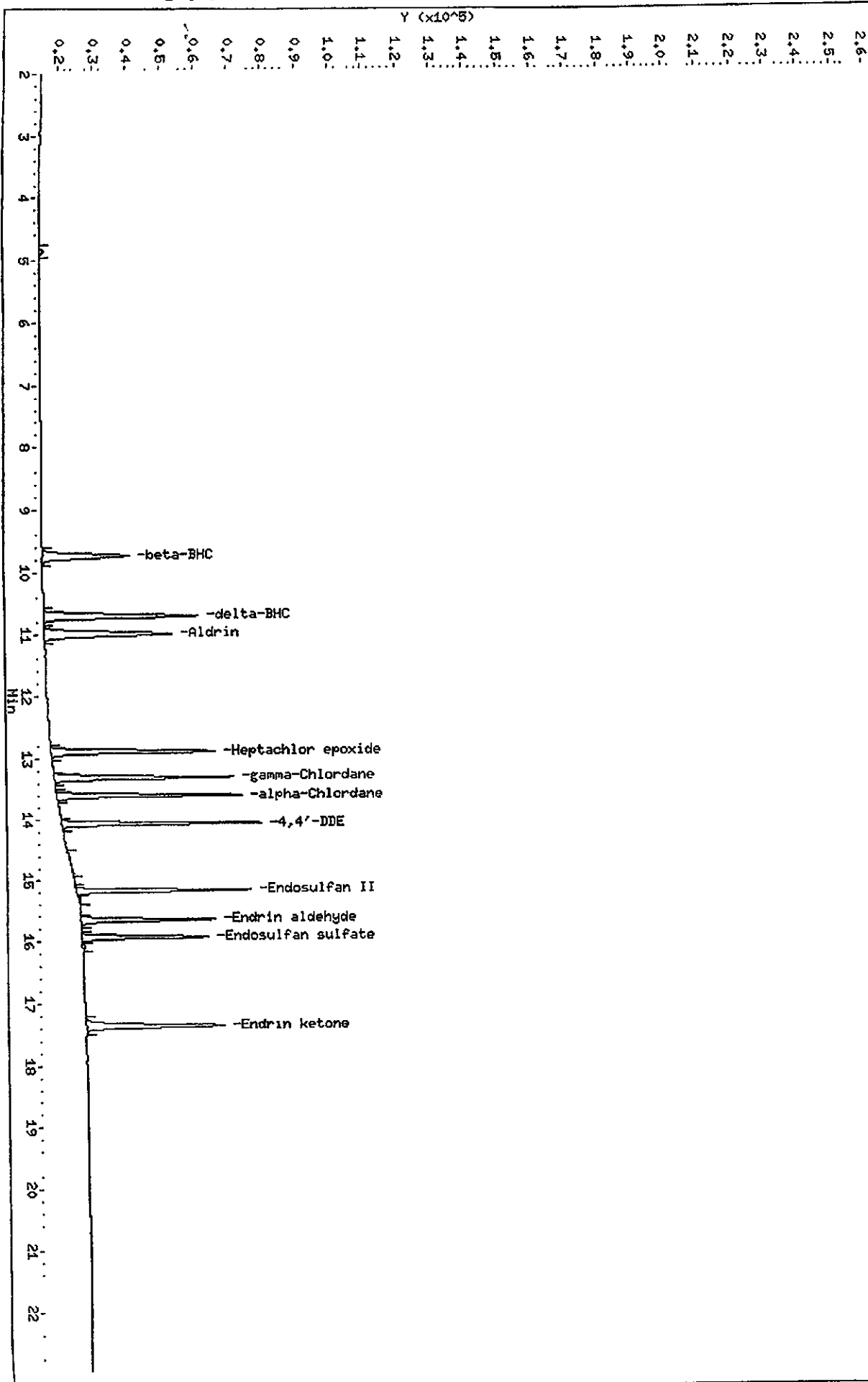
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	--	-----	-----	-----	-----	-----
13 Aldrin	10.993	10.993	0.000	37204	0.02500	0.02498
10 beta-BHC	9.740	9.733	0.007	25378	0.02500	0.02508
11 delta-BHC	10.706	10.700	0.006	45448	0.02500	0.02684
17 Heptachlor epoxide	12.886	12.880	0.006	47776	0.02500	0.02477
18 gamma-Chlordane	13.300	13.293	0.007	52509	0.02500	0.02494
19 alpha-Chlordane	13.600	13.593	0.007	54028	0.02500	0.02477
22 4,4'-DDE	14.066	14.060	0.006	58877	0.02500	0.02594
31 Endosulfan II	15.153	15.153	0.000	51057	0.02500	0.02551
33 Endrin aldehyde	15.646	15.646	0.000	39197	0.02500	0.02554
34 Endosulfan sulfate	15.933	15.926	0.007	37132	0.02500	0.02736
37 Endrin ketone	17.360	17.353	0.007	40522	0.02500	0.02643

679 400

Data File: \\qptipa02\chem\gc4.i\2231-G.b\D-A3147.d
 Date: 24-11-2001 06:34
 Client ID:
 Sample Info: HEDB, 2231-G.b, INDB.sub, 2,3
 Column phase: RTX-50

Instrument: gc4.i
 Operator: 010139
 Column diameter: 0.53

\\qptipa02\chem\gc4.i\2231-G.b\D-A3147.d\D-A3147.RAM



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3148.d
Report Date: 26-Mar-2001 11:37

679 401

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3148.d
Lab Smp Id: EVALB
Inj Date : 24-MAR-2001 07:03
Operator : 010139 Inst ID: gc4.i
Smp Info : EVALB,2231-G.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 2 Tetrachloro-m-xylene	5.153	5.146	0.007	34157	0.02007	0.02007 (R)
22 4,4'-DDE	14.060	14.060	0.000	431	0.00019	0.0001899
26 Endrin	14.760	14.760	0.000	50158	0.02575	0.02575
29 4,4'-DDD	Compound Not Detected.					
32 4,4'-DDT	15.393	15.393	0.000	45212	0.02580	0.02580
33 Endrin aldehyde	15.646	15.646	0.000	678	<0.0	0.0004418
37 Endrin ketone	17.353	17.353	0.000	666	<0.0	0.0004344
\$ 38 Decachlorobiphenyl	21.000	21.000	0.000	20674	0.02044	0.02044 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

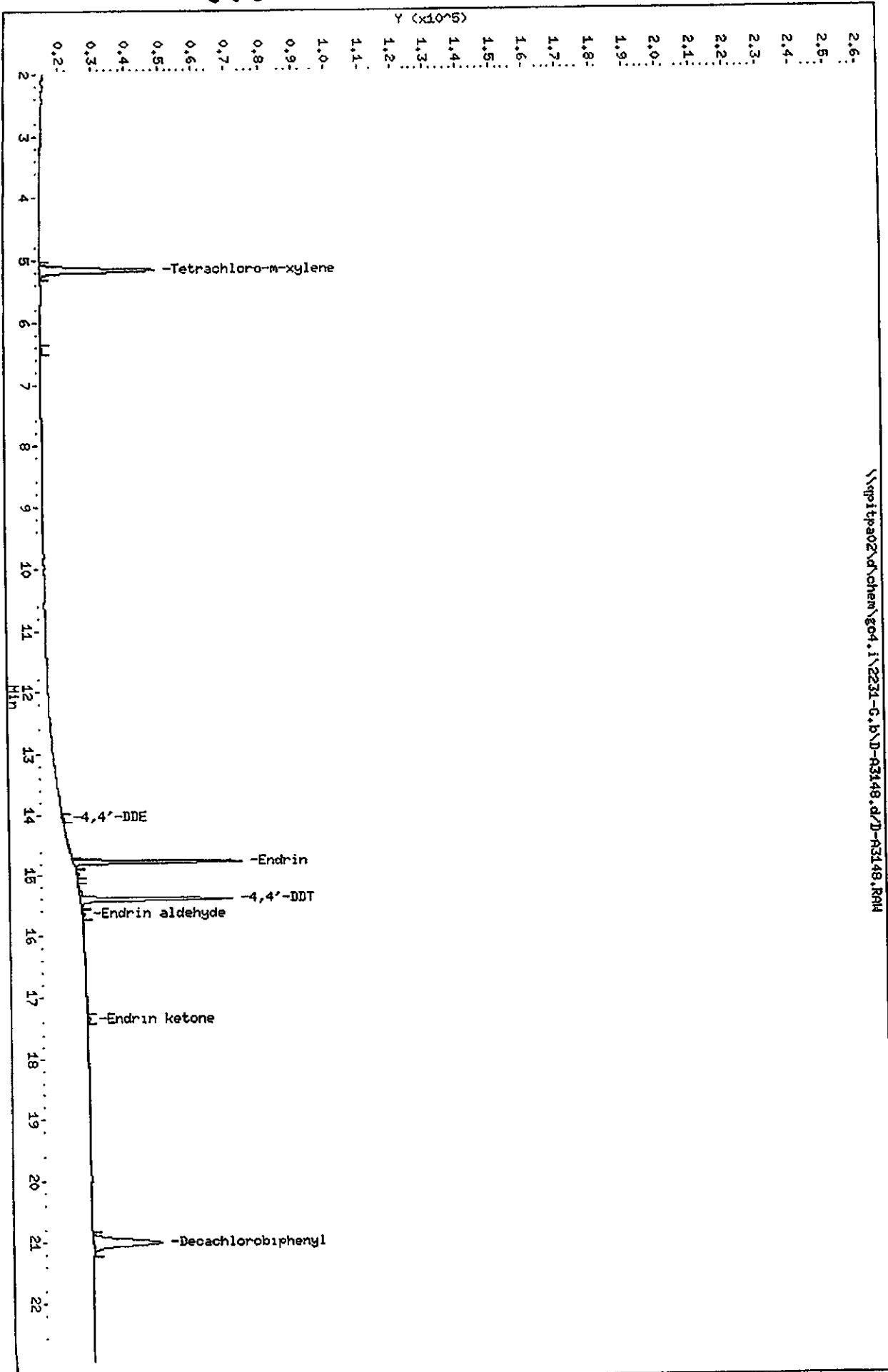
DDT = .94
Endrin = 2.9

679 402

Data File: \\ppitpa02\chem\gc04.i\2231-G.b\D-A3148.d
 Date: 24-MAR-2001 07:03
 Client ID:
 Sample Info: EVALB,2231-G.b,EVALBR,sub,,3,1
 Column phase: RTX-50

Instrument: gc04.i
 Operator: 010139
 Column diameter: 0.53

\\ppitpa02\chem\gc04.i\2231-G.b\D-A3148.d\D-A3148.R04



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3169.d
 Report Date: 26-Mar-2001 11:42

679 403

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3169.d
 Lab Smp Id: MEDA
 Inj Date : 24-MAR-2001 16:54
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDA,2231-G.b,,INDA.sub,,2,3
 Misc Info : 190-100-8
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDA.sub
 Target Version: 4.04
 Processing Host: PITPC044

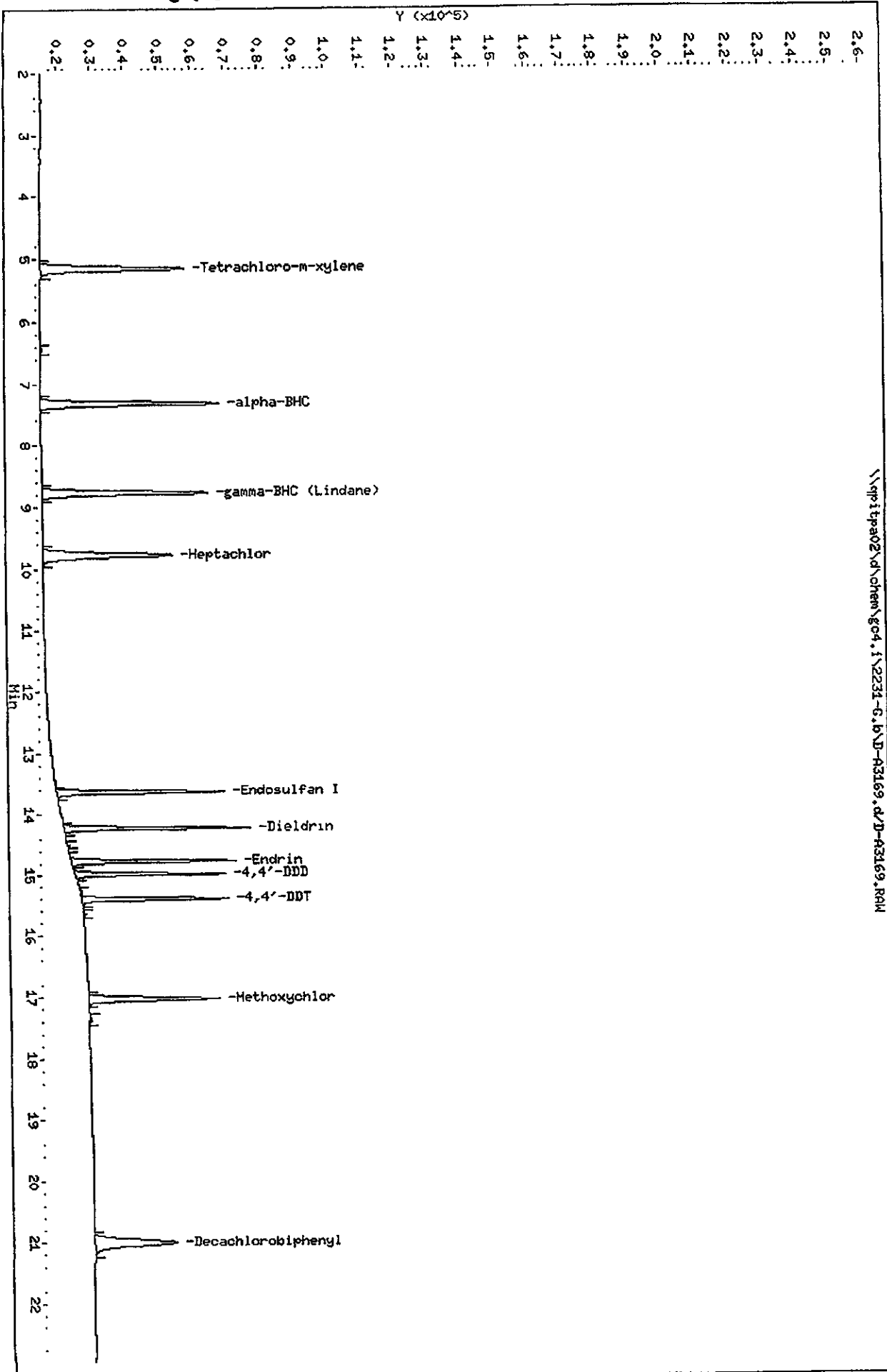
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.146	5.146	0.000	42628	0.02500	0.02504
6 alpha-BHC	7.320	7.313	0.007	52883	0.02500	0.02558
7 gamma-BHC (Lindane)	8.773	8.766	0.007	49129	0.02500	0.02526
9 Heptachlor	9.773	9.766	0.007	38028	0.02500	0.02474
20 Endosulfan I	13.633	13.626	0.007	49840	0.02500	0.02462
23 Dieldrin	14.226	14.220	0.006	55455	0.02500	0.02487
26 Endrin	14.760	14.760	0.000	48775	0.02500	0.02504
29 4,4'-DDD	14.973	14.966	0.007	44415	0.02500	0.02541
32 4,4'-DDT	15.400	15.393	0.007	43735	0.02500	0.02496
35 Methoxychlor	17.026	17.020	0.006	39027	0.05000	0.05600
\$ 38 Decachlorobiphenyl	21.006	21.000	0.006	24555	0.02500	0.02428

679 404

Data File: \\ppitpa02\chem\gc4.i\2231-G.b\A3169.d
 Date: 24-MAR-2001 16:54
 Client ID:
 Sample Info: MEDA, 2231-G.b, INDA, sub, 2,3
 Column phase: RTX-50

Instrument: gc4.i
 Operator: 010139
 Column diameter: 0.53

\\ppitpa02\chem\gc4.i\2231-G.b\A3169.d\A3169.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3170.d
Report Date: 26-Mar-2001 11:42

679 405

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3170.d
Lab Smp Id: MEDB
Inj Date : 24-MAR-2001 17:22
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDB,2231-G.b,,INDB.sub,,2,3
Misc Info : 190-100-14
Comment : 8081 analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC044

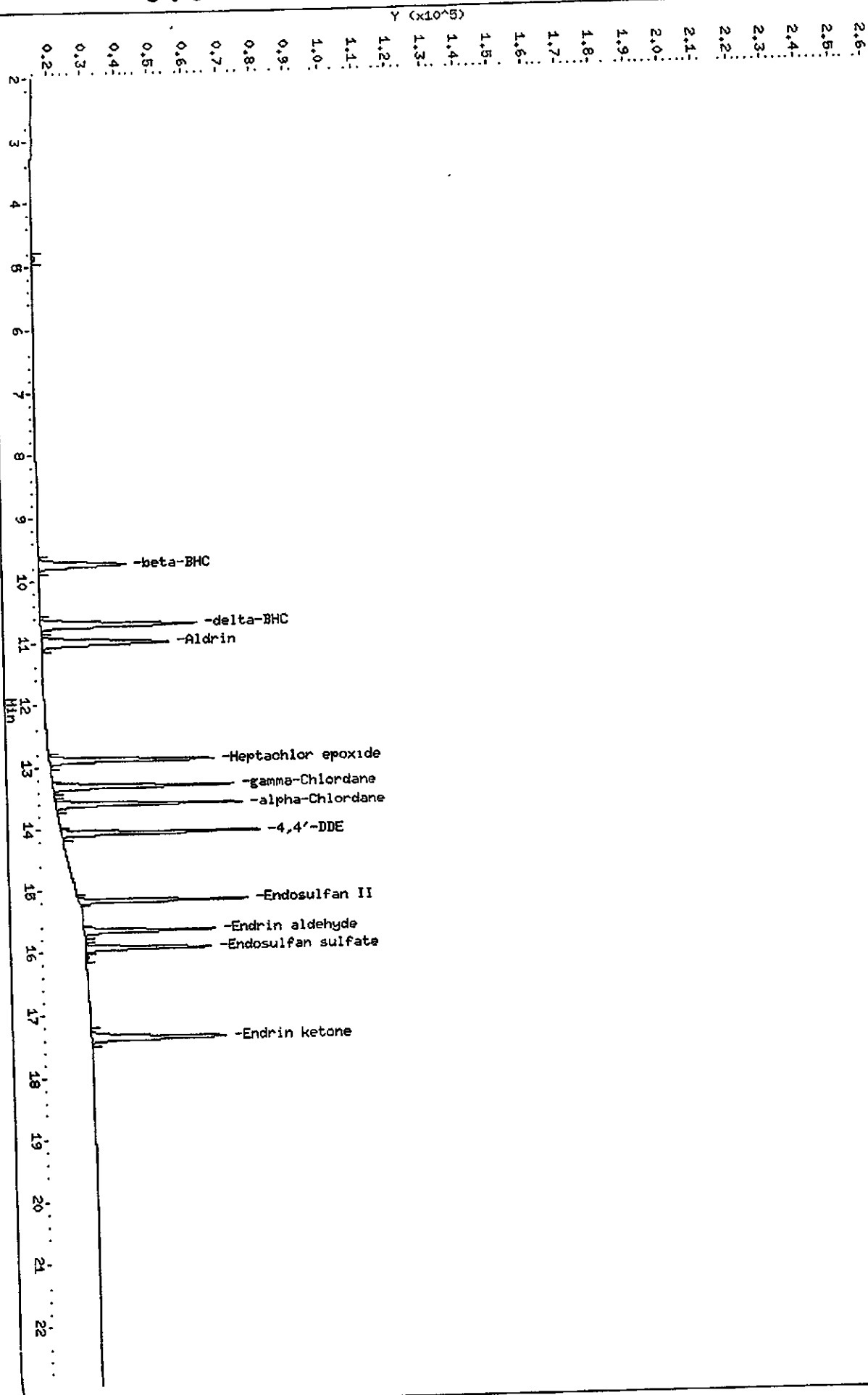
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	10.993	10.993	0.000	37284	0.02500	0.02504
10 beta-BHC	9.740	9.733	0.007	25339	0.02500	0.02504
11 delta-BHC	10.706	10.700	0.006	45627	0.02500	0.02695
17 Heptachlor epoxide	12.880	12.880	0.000	48086	0.02500	0.02493
18 gamma-Chlordane	13.300	13.293	0.007	52754	0.02500	0.02506
19 alpha-Chlordane	13.593	13.593	0.000	54549	0.02500	0.02501
22 4,4'-DDE	14.066	14.060	0.006	58217	0.02500	0.02565
31 Endosulfan II	15.153	15.153	0.000	49360	0.02500	0.02466
33 Endrin aldehyde	15.646	15.646	0.000	38222	0.02500	0.02491
34 Endosulfan sulfate	15.933	15.926	0.007	36526	0.02500	0.02691
37 Endrin ketone	17.360	17.353	0.007	39414	0.02500	0.02571

679 406

Data File: \\pittpa02\chem\gc04.1\2231-G.b\D-A3170.d
 Date: 24-MAR-2004 17:22
 Client ID:
 Sample Info: HEDB,2231-G.b,1,INDB,sub,,2,3
 Column phase: RTX-50

Instrument: gc04.1
 Operator: 010139
 Column diameter: 0.53

\\pittpa02\chem\gc04.1\2231-G.b\D-A3170.d\D-A3170.RAW



Report Date : 26-Mar-2001 09:16

(61)
588046
RT_x-1701

679 407

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Quant Method : ESTD Target Version : 4.04
 Last Update : 26-Mar-2001 09:15 Number of Cpnds : 24
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	40.000000
Initial:End Threshold	20.000000
Initial:Area Threshold	1000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	1.000000
Initial:Negative Peaks	ON
Initial:Tension	0.000000

Compound	RT	RT Window	RF
2 Tetrachloro-m-xylene	5.407	5.357-5.457	1.09e+006
6 alpha-BHC	8.120	8.070-8.170	1.28e+006
7 gamma-BHC (Lindane)	9.487	9.437-9.537	1.18e+006
8 Chlordane	9.727	9.677-9.777	3.74e+004
	10.307	10.257-10.357	5.30e+004
	13.813	13.763-13.863	1.78e+005
	13.940	13.890-13.990	1.77e+005
9 Heptachlor	10.307	10.257-10.357	1.22e+006
10 beta-BHC	12.133	12.083-12.183	7.37e+005
11 delta-BHC	12.740	12.690-12.790	1.40e+006
13 Aldrin	11.267	11.217-11.317	1.17e+006
17 Heptachlor epoxide	13.173	13.123-13.223	1.49e+006
18 gamma-Chlordane	13.813	13.763-13.863	1.66e+006
19 alpha-Chlordane	13.927	13.877-13.977	1.64e+006
20 Endosulfan I	13.727	13.677-13.777	1.51e+006
22 4,4'-DDE	14.080	14.030-14.130	1.59e+006
23 Dieldrin	14.327	14.277-14.377	1.64e+006
26 Endrin	14.660	14.610-14.710	1.25e+006
29 4,4'-DDD	15.227	15.177-15.277	1.20e+006
30 Toxaphene	15.333	15.283-15.383	3.55e+004
	15.440	15.390-15.490	3.22e+004
	15.773	15.723-15.823	2.93e+004
	16.580	16.530-16.630	2.43e+004
31 Endosulfan II	15.353	15.303-15.403	1.54e+006

679 408

Report Date : 26-Mar-2001 09:16

6)
58904B
17x-1701

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m

Compound	RT	RT Window	RF
32 4,4'-DDT	15.487	15.437-15.537	1.30e+006
33 Endrin aldehyde	16.033	15.983-16.083	7.30e+005
34 Endosulfan sulfate	16.627	16.577-16.677	8.13e+005
35 Methoxychlor	16.520	16.470-16.570	6.47e+005
37 Endrin ketone	17.500	17.450-17.550	1.14e+006
\$ 38 Decachlorobiphenyl	19.933	19.883-19.983	9.52e+005

Report Date : 26-Mar-2001 09:16

62
589046
117-1701

679 409

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAR-2001 13:41
End Cal Date : 23-MAR-2001 18:52
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Cal Date : 26-Mar-2001 09:15 matkol
Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3118.d
Level 2: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3119.d
Level 3: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3120.d
Level 4: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3121.d
Level 5: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3122.d

Compound	0 00500	0.01000	0.02500	0.05000	0.10000	RRP	† RSD
-----	-----	-----	-----	-----	-----	-----	-----
6 alpha-BHC	948400	1031000	1291560	1512540	1639410	1284582	23.199<-
7 gamma-BHC (Lindane)	921400	982000	1194320	1359900	1446320	1180788	19.385
8 Chlordane(1)	+++++	+++++	37352	+++++	+++++	37352	0.000
(2)	+++++	+++++	53040	+++++	+++++	53040	0.000
(3)	+++++	+++++	178376	+++++	+++++	178376	0.000
(4)	+++++	+++++	177224	+++++	+++++	177224	0.000
9 Heptachlor	1118800	1133100	1218680	1292100	1346900	1221916	8.089
10 beta-BHC	673400	678700	752920	792760	788560	737268	7.869
11 delta-BHC	1050600	1111100	1410520	1655580	1763370	1398234	22.701<-
13 Aldrin	1007600	1009700	1161480	1303260	1358890	1168186	13.906
17 Heptachlor epoxide	1355800	1347200	1487760	1612400	1628700	1486372	9.061
18 gamma-Chlordane	1552400	1531700	1677040	1763580	1765380	1658020	6.753
19 alpha-Chlordane	1552200	1525300	1666440	1747240	1731390	1644514	6.180
20 Endosulfan I	1373200	1427800	1529440	1595200	1627070	1510542	7.162
22 4,4'-DDE	1450400	1445800	1608720	1714680	1732270	1590374	8.691
23 Dieldrin	1448800	1497500	1664040	1759660	1827050	1639410	9.965
26 Endrin	1114000	1167000	1247880	1325200	1395680	1249952	9.145
29 4,4'-DDD	1073400	1222500	1173760	1243740	1302910	1203262	7.158
30 Toxaphene(1)	+++++	+++++	35485	+++++	+++++	35485	0.000
(2)	+++++	+++++	32224	+++++	+++++	32224	0.000
(3)	+++++	+++++	29271	+++++	+++++	29271	0.000
(4)	+++++	+++++	24286	+++++	+++++	24286	0.000
31 Endosulfan II	1641800	1489300	1513960	1527280	1535060	1541480	3.809
32 4,4'-DDT	1227600	1286700	1269640	1324740	1371660	1296068	4.228
33 Endrin aldehyde	708000	686500	728040	765540	759710	729558	4.610
34 Endosulfan sulfate	742400	726100	804040	879160	913380	813016	10.118

679 410

6E
589046
RTX-1701

Report Date : 26-Mar-2001 09:16

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAR-2001 13:41
 End Cal Date : 23-MAR-2001 18:52
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Cal Date : 26-Mar-2001 09:15 matkol
 Curve Type : Average

Compound	0 00500	0.01000	0.02500	0 05000	0 10000	RRP	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
35 Methoxychlor	639800	638500	656040	655230	646040	647122	1.280
37 Endrin ketone	1092800	1054000	1143600	1198000	1197840	1137248	5.615
\$ 2 Tetrachloro-m-xylene	1075800	1077500	1095040	1110640	1083150	1088426	1.334
\$ 38 Decachlorobiphenyl	968000	961800	970400	943880	913960	951608	2.466

AVE-8.76

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

679 411

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G
 GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/23/01 03/23/01
 EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 03/23/01
 Lab Sample ID (PEM): EVALB Time Analyzed : 1313

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.67	14.61	14.71	0.02460	0.02500	-1.6
4,4'-DDT	15.49	15.44	15.54	0.02417	0.02500	-3.3

4,4'-DDT % breakdown (1): ~~5.46~~ 5.3 Endrin % breakdown (1): ~~2.37~~
 Combined % breakdown (1): ~~12.83~~ 10.6 53

WM
3/26/01

679 412

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 4140-G

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/23/01 03/23/01

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM): _____

Date Analyzed : 03/23/01

Lab Sample ID (PEM): EVALB

Time Analyzed : 2016

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.67	14.61	14.71	0.02329	0.02500	-6.8
4,4'-DDT	15.49	15.44	15.54	0.02390	0.02500	-4.4

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

~~4.12~~

3.8

Endrin % breakdown (1):

~~7.43~~

Combined % breakdown (1):

~~11.55~~

9.4

5.6

lm
3/24/01

FORM VII PEST-1

OLM03.0

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: _____ Contract: **679 413**
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G
 GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/23/01 03/23/01

EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 03/24/01
 Lab Sample ID (PEM): EVALB Time Analyzed : 0703

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.67	14.61	14.71	0.02672	0.02500	6.9
4,4'-DDT	15.49	15.44	15.54	0.02543	0.02500	1.7

4,4'-DDT % breakdown (1): ~~5.10~~ **4.5** Endrin % breakdown (1): ~~2.18~~ **1.8**
 Combined % breakdown (1): ~~7.28~~ **6.3**

mm
3/26/01

679 414
 Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3146.d
 Report Date: 26-Mar-2001 09:52

7C
 589090
 RT-101

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 24-MAR-2001 06:06
 Lab File ID: D-B3146.d Init. Cal. Date(s): 23-MAR-2001 23-MAR-2001
 Analysis Type: Init. Cal. Times: 13:41 18:52
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m

COMPOUND	RRF	RFO	MIN	RRF	%D	MAX
-----	-----	-----	-----	-----	-----	-----
\$ 2 Tetrachloro-m-xylene	1088426	1156920	0.000	6.3	15.0	
6 alpha-BHC	1284582	1365680	0.010	6.3	15.0	
7 gamma-BHC (Lindane)	1180788	1251400	0.010	6.0	15.0	
9 Heptachlor	1221916	1255320	0.010	2.7	15.0	
20 Endosulfan I	1510542	1582320	0.010	4.8	15.0	
23 Dieldrin	1639410	1697000	0.010	3.5	15.0	
26 Endrin	1249952	1399400	0.010	12.0	15.0	
29 4,4'-DDD	1203262	1351040	0.010	12.3	15.0	
32 4,4'-DDT	1296068	1363120	0.010	5.2	15.0	
35 Methoxychlor	647122	700860	0.010	8.3	15.0	
\$ 38 Decachlorobiphenyl	951608	994400	0.010	4.5	15.0	

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3147.d
 Report Date: 26-Mar-2001 09:52

7E
 289040
 ATX-1701

STL-Pittsburgh

679 415

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 24-MAR-2001 06:34
 Lab File ID: D-B3147.d Init. Cal. Date(s): 23-MAR-2001 23-MAR-2001
 Analysis Type: Init. Cal. Times: 13:41 18:52
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m

COMPOUND	RRF	RFO	MIN	MAX
RRF	%D	%D		
13 Aldrin	1168186	1170200	0.010	0.2 15.0
10 beta-BHC	737268	765120	0.010	3.8 15.0
11 delta-BHC	1398234	1513080	0.010	8.2 15.0
17 Heptachlor epoxide	1486372	1528360	0.010	2.8 15.0
18 gamma-Chlordane	1658020	1657520	0.010	-0.0 15.0
19 alpha-Chlordane	1644514	1679720	0.010	2.1 15.0
22 4,4'-DDE	1590374	1677440	0.010	5.5 15.0
31 Endosulfan II	1541480	1503160	0.010	-2.5 15.0
33 Endrin aldehyde	729558	760040	0.010	4.2 15.0
34 Endosulfan sulfate	813016	923280	0.010	13.6 15.0
37 Endrin ketone	1137248	1205080	0.010	6.0 15.0

679 416

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3169.d
 Report Date: 26-Mar-2001 09:57

74
 589043
 RTx-1201

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 24-MAR-2001 16:54
 Lab File ID: D-B3169.d Init. Cal. Date(s): 23-MAR-2001 23-MAR-2001
 Analysis Type: Init. Cal. Times: 13:41 18:52
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m

COMPOUND	RRF	RFO	MIN	MAX
2 Tetrachloro-m-xylene	1088426	1111400	0.000	2.1
6 alpha-BHC	1284582	1308240	0.010	1.8
7 gamma-BHC (Lindane)	1180788	1210360	0.010	2.5
9 Heptachlor	1221916	1206440	0.010	-1.3
20 Endosulfan I	1510542	1505400	0.010	-0.3
23 Dieldrin	1639410	1645120	0.010	0.3
26 Endrin	1249952	1397920	0.010	11.8
29 4,4'-DDD	1203262	1290240	0.010	7.2
32 4,4'-DDT	1296068	1325840	0.010	2.3
35 Methoxychlor	647122	688260	0.010	6.4
38 Decachlorobiphenyl	951608	959560	0.010	0.8

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3170.d
 Report Date: 26-Mar-2001 09:58

17 76
 529046
 3/26/01 RTX-1701

STL-Pittsburgh

679 417

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 24-MAR-2001 17:22
 Lab File ID: D-B3170.d Init. Cal. Date(s): 23-MAR-2001 23-MAR-2001
 Analysis Type: Init. Cal. Times: 13:41 18:52
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m

COMPOUND	RRF	RF0	MIN	MAX
-----	-----	-----	-----	-----
13 Aldrin	1168186	1163200	0.010	-0.4 15.0
10 beta-BHC	737268	768400	0.010	4.2 15.0
11 delta-BHC	1398234	1533680	0.010	9.7 15.0
17 Heptachlor epoxide	1486372	1503920	0.010	1.2 15.0
18 gamma-Chlordane	1658020	1668080	0.010	0.6 15.0
19 alpha-Chlordane	1644514	1668880	0.010	1.5 15.0
22 4,4'-DDE	1590374	1654240	0.010	4.0 15.0
31 Endosulfan II	1541480	1518080	0.010	-1.5 15.0
33 Endrin aldehyde	729558	794200	0.010	8.9 15.0
34 Endosulfan sulfate	813016	965640	0.010	18.8 15.0 <-
37 Endrin ketone	1137248	1218040	0.010	7.1 15.0

AVE=4.30

679 418

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name:

Contract:

Lab Code: -

Case No.:

SAS No.:

SDG No.: C1C210184

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/23/01 03/23/01

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
TCX: 5.41			DCB: 19.93		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01	EVALB	03/23/01	1313	5.41	19.93
02	MEDTOX	03/23/01	1341	5.41	19.93
03	MEDCHLOR	03/23/01	1410	5.41	19.93
04	LOWA	03/23/01	1438	5.41	19.93
05	MLOWA	03/23/01	1506	5.41	19.93
06	MEDA	03/23/01	1534	5.41	19.93
07	MHIGHA	03/23/01	1602	5.41	19.93
08	HIGHA	03/23/01	1631	5.41	19.93
09	LOWB	03/23/01	1659		
10	MLOWB	03/23/01	1727		
11	MEDB	03/23/01	1755		
12	MHIGHB	03/23/01	1823		
13	HIGHB	03/23/01	1852		
14	2ND A	03/23/01	1920	5.41	19.93
15	2ND B	03/23/01	1948		
16	EVALB	03/23/01	2016	5.41	19.93
17	PBLK1497 DXTLX1AA	03/24/01	0538	5.41	19.93
18	MEDA	03/24/01	0606	5.41	19.93
19	MEDB	03/24/01	0634		
20	EVALB	03/24/01	0703	5.41	19.93
21	LCS1497 DXTLX1AC	03/24/01	0731	5.41	19.94
22	LCD1497 DXTLX1AD	03/24/01	0759	5.41	19.94
23	DF/24-B/1079 DXPK31AD	03/24/01	0827	5.37	19.94
24	MEDA	03/24/01	1654	5.41	19.93
25	MEDB	03/24/01	1722		
26					
27					
28					
29					
30					
31					
32					

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)# Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3110.d
Report Date: 26-Mar-2001 10:13

679 419

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3110.d
Lab Smp Id: EVALB
Inj Date : 23-MAR-2001 13:13
Operator : 010139 Inst ID: gc4.i
Smp Info : EVALB,2231-G.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-B3122.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN	FINAL
					(ng)	(ng)
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	21657	0.01990	0.01990 (R)
22 4,4'-DDE	14.086	14.080	0.006	478	<0.0	0.0003006
26 Endrin	14.666	14.660	0.006	30753	0.02460	0.02460
29 4,4'-DDD	15.233	15.226	0.007	1282	0.00107	0.001065
32 4,4'-DDT	15.486	15.486	0.000	31327	0.02417	0.02417
33 Endrin aldehyde	16.033	16.033	0.000	676	<0.0	0.0009266
37 Endrin ketone	17.500	17.500	0.000	1041	<0.0	0.0009154
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	19295	0.02028	0.02028 (R)

QC Flag Legend

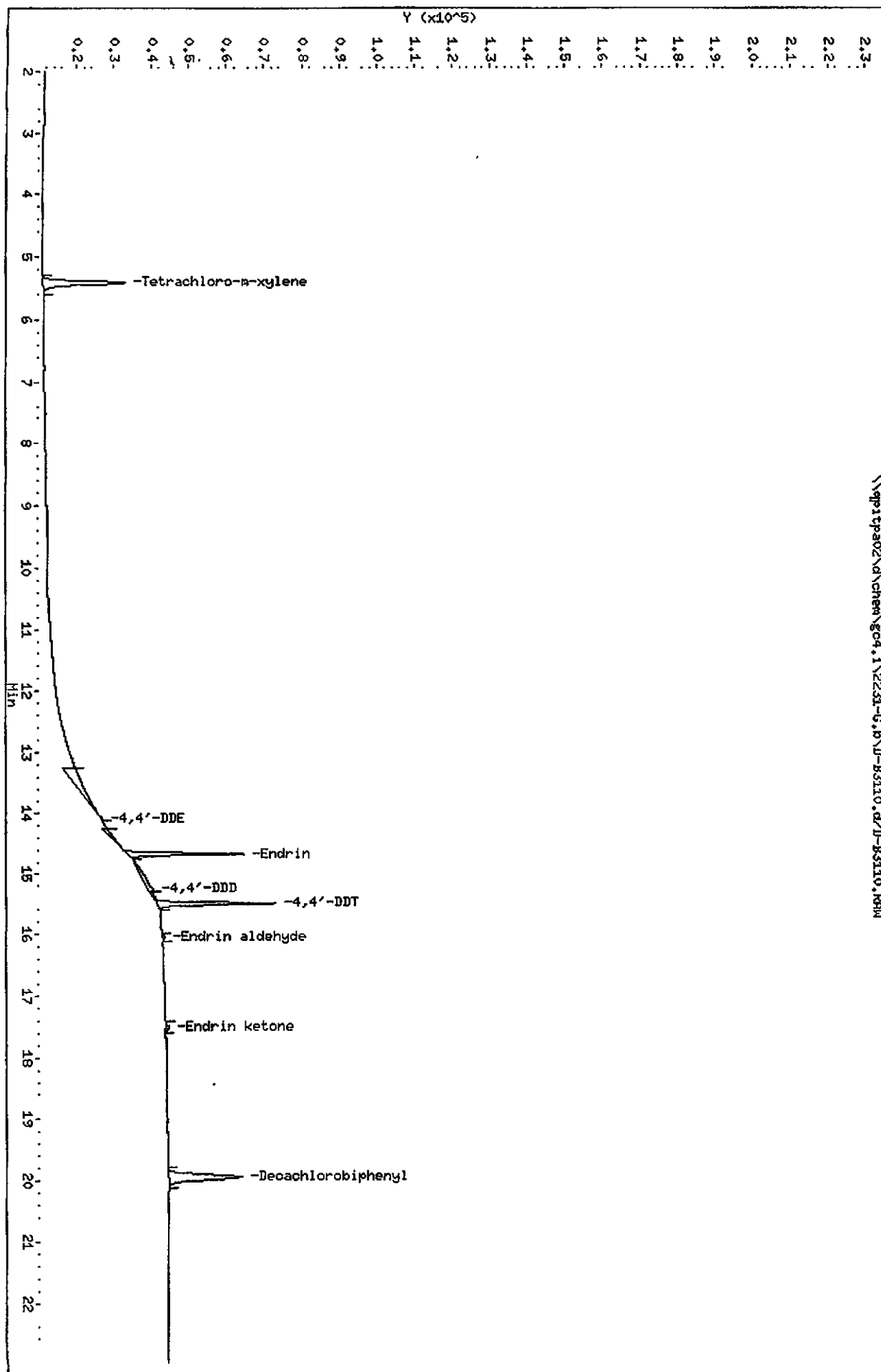
R - Spike/Surrogate failed recovery limits.

DDT = 5.3
Endrin = 5.3

Data File: \\ppitpa02\chem\gc4.1\2231-G.b\D-B3110.d
Date: 23-10R-2001 13:13
Client ID:
Sample Info: EVALB,2231-G.b,EVALBR,sub,3,1
Column phase: RTX-1701

Instrument: gc4.1
Operator: 010139
Column diameter: 0.53

\\ppitpa02\chem\gc4.1\2231-G.b\D-B3110.d\D-B3110.RM



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3111.d
Report Date: 26-Mar-2001 10:13

679 421

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3111.d
Lab Smp Id: MEDTOX
Inj Date : 23-MAR-2001 13:41
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDTOX,2231-G.b,,1-TOX.sub,,1,3
Misc Info : 190-98-12
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 13:41 Cal File: D-B3111.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.04
Processing Host: PITPC044

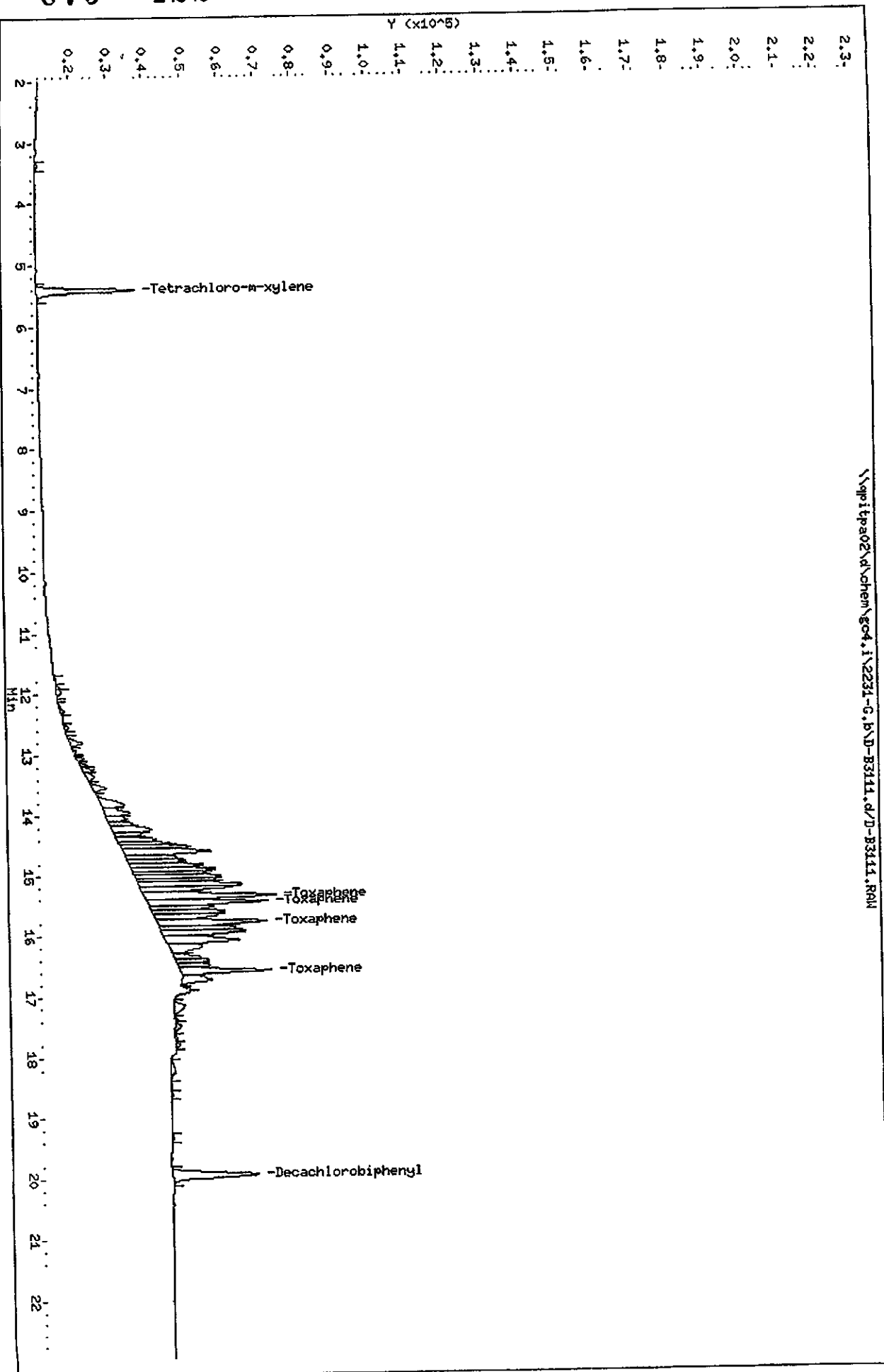
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
30 Toxaphene	15.333	15.333	0.000	35485	1.00000	1.000
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	26356	0.02500	0.02500
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	23307	0.02500	0.02500

679 422

Data File: \\pp1tpa02\chem\gc4.1\2231-G.b.D-B3111.d
 Date: 23-MAR-2001 13:41
 Client ID:
 Sample Info: MEDTOX, 2231-G.b, 1-TOX, sub, 1,3
 Column phase: RTX-1701

Instrument: gc4.1
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\gc4.1\2231-G.b.D-B3111.d/D-B3111.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3112.d
 Report Date: 26-Mar-2001 10:13

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3112.d
 Lab Smp Id: MEDCHLOR
 Inj Date : 23-MAR-2001 14:10
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDCHLOR, 2231-G.b, , 2-CHLO.sub, , 1, 3
 Misc Info : 190-102-9
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 14:10 Cal File: D-B3112.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 2-CHLO.sub
 Target Version: 4.04
 Processing Host: PITPC044

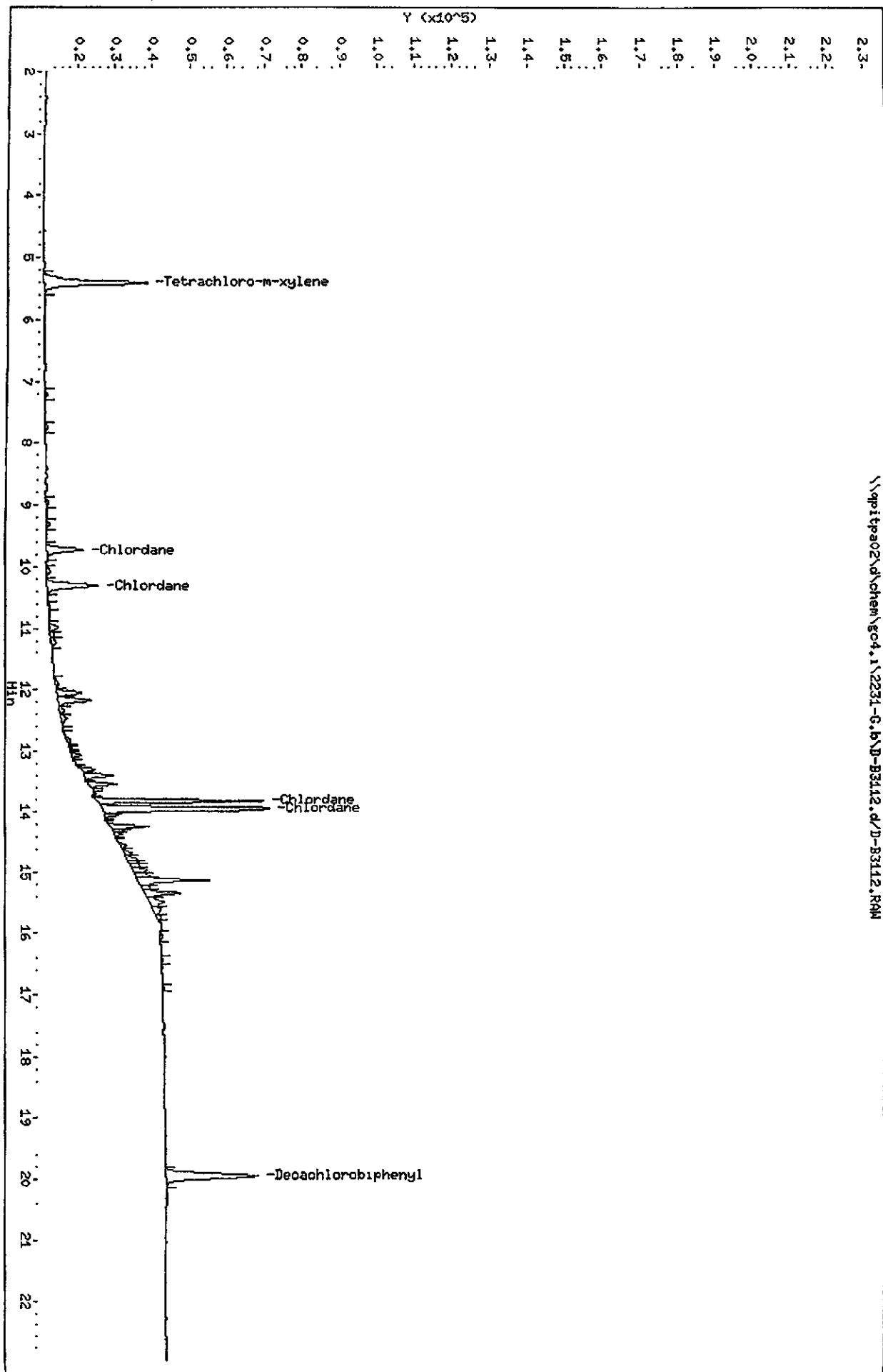
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
8 Chlordane	9.726	9.726	0.000	9338	0.25000	0.2500 (M)
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	27376	0.02500	0.02500
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	24260	0.02500	0.02500

QC Flag Legend

M - Compound response manually integrated.

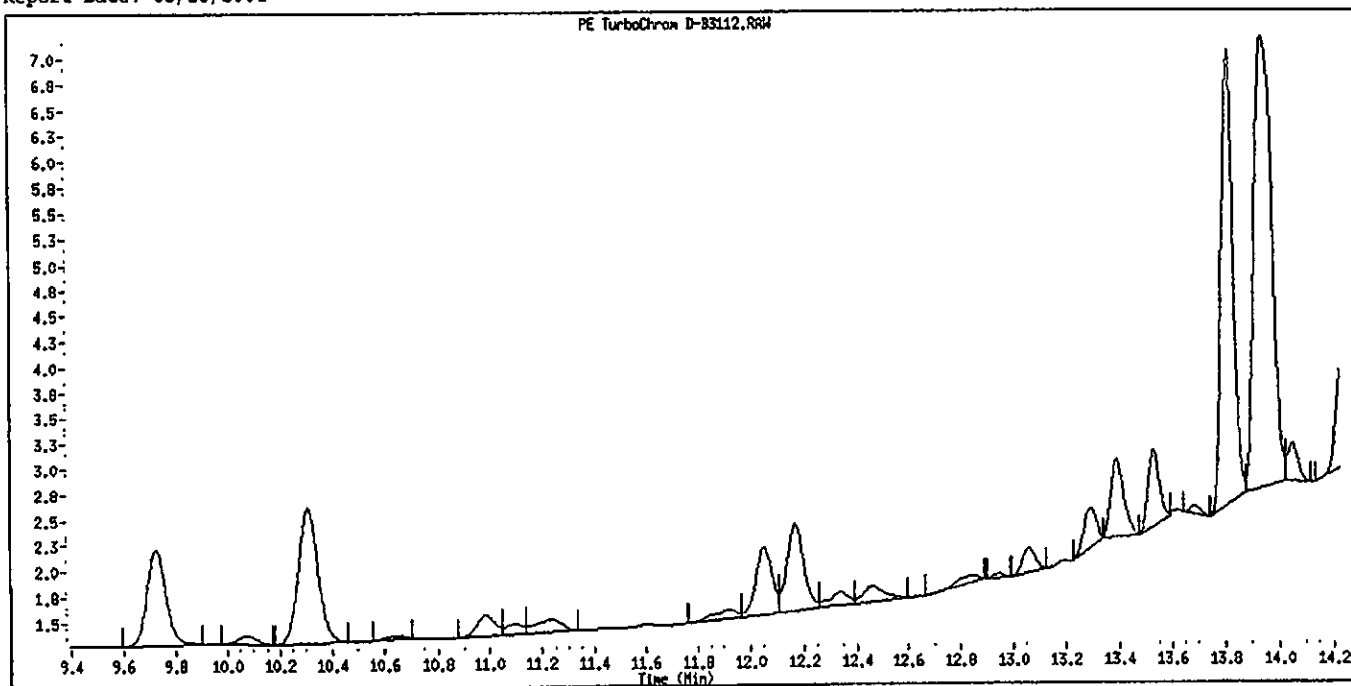
Data File: \\sp1tpa02\chem\g04.1\2231-G,b\B-B3112.d
 Date : 23-MAR-2001 14:10
 Client ID:
 Sample Info: HEDCHLOR,2231-G,b,,2-CHLO,sub,,1,3
 Column phase: RTX-1701

Instrument: g04.1
 Operator: 010139
 Column diameter: 0.53

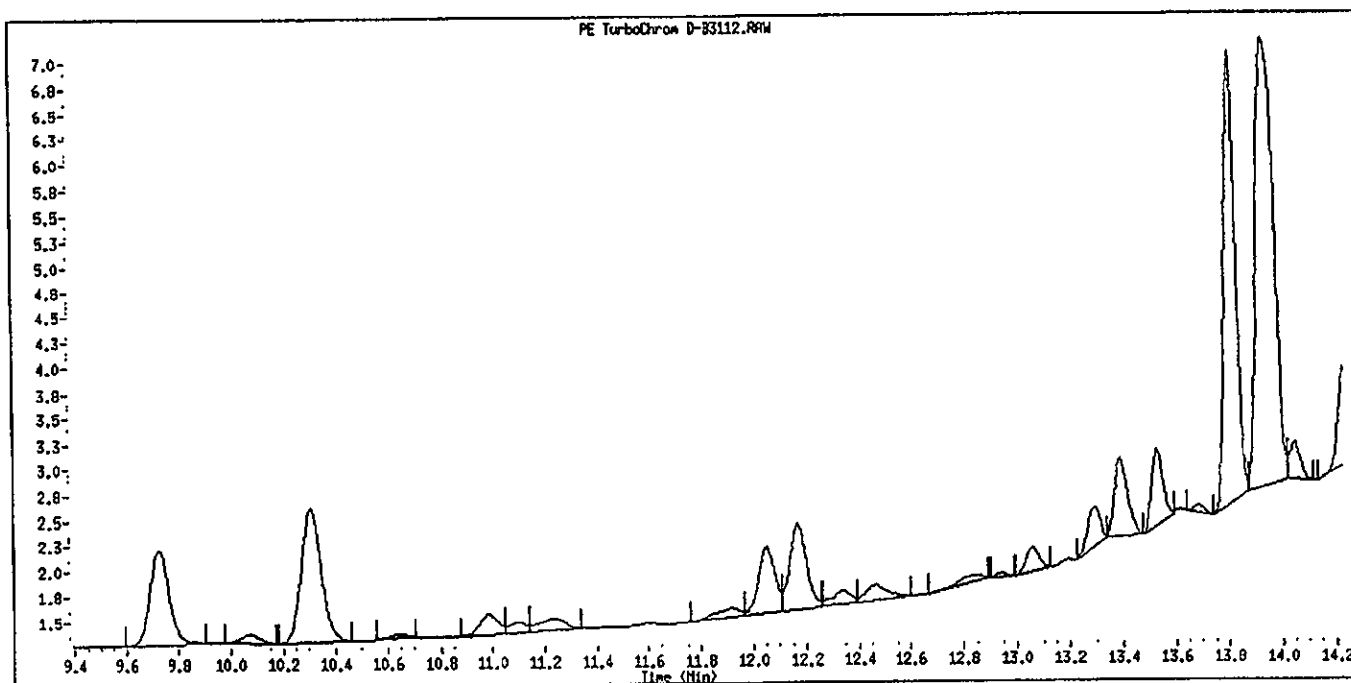


Data File Name: D-B3112 d
Inj. Date and Time 23-MAR-2001 14:10
Instrument ID gc4 i
Client ID:
Compound Name: Chlordane
CAS #: 57-74-9
Report Date: 03/26/2001

679 425



Original Integration



Manual Integration

Manually Integrated By: MatkoL
Manual Integration Reason: Unknown

679 426

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3113.d
 Report Date: 26-Mar-2001 10:14

STL-Pittsburgh

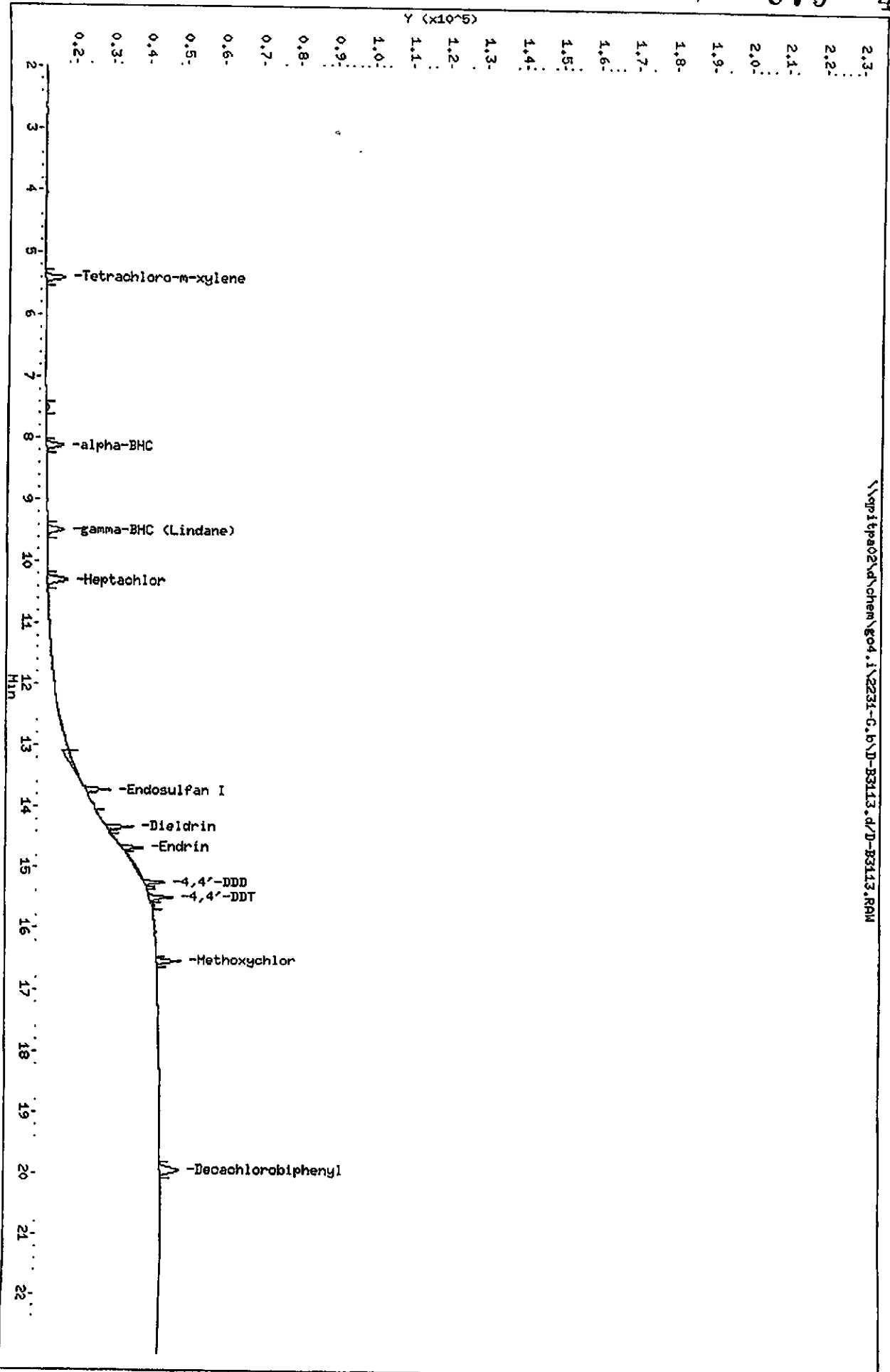
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3113.d
 Lab Smp Id: LOWA
 Inj Date : 23-MAR-2001 14:38
 Operator : 010139 Inst ID: gc4.i
 Smp Info : LOWA,2231-G.b,,3-INDA.sub,,1,1
 Misc Info : 190-100-6
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 17:55 Cal File: D-B3120.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	5379	0.00500	0.004956
6 alpha-BHC	8.120	8.120	0.000	4742	0.00500	0.004234
7 gamma-BHC (Lindane)	9.486	9.486	0.000	4607	0.00500	0.004355
9 Heptachlor	10.306	10.306	0.000	5594	0.00500	0.004786
20 Endosulfan I	13.726	13.726	0.000	6866	0.00500	0.004731
23 Dieldrin	14.326	14.326	0.000	7244	0.00500	0.004654
26 Endrin	14.660	14.660	0.000	5570	0.00500	0.004716
29 4,4'-DDD	15.226	15.226	0.000	5367	0.00500	0.004777
32 4,4'-DDT	15.486	15.486	0.000	6138	0.00500	0.004916
35 Methoxychlor	16.520	16.520	0.000	6398	0.01000	0.009875
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	4840	0.00500	0.004994

Data File: \\p01tpa02\chem\604.1\2231-G,b\D-B3113.d
Date: 23-MAR-2001 14:38
Client ID:
Sample Info: LOMR,2231-G,b,3-INDR,sub,1.1

Column phase: RTX-1701

Instrument: 604.1
Operator: 010139
Column diameter: 0.53



679 428

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3114.d
Report Date: 26-Mar-2001 10:14

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3114.d
Lab Smp Id: MLOWA
Inj Date : 23-MAR-2001 15:06
Operator : 010139 Inst ID: gc4.i
Smp Info : MLOWA,2231-G.b,,3-INDA.sub,,1,2
Misc Info : 190-100-7
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 17:55 Cal File: D-B3120.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	10775	0.01000	0.009951
6 alpha-BHC	8.120	8.120	0.000	10310	0.01000	0.009456
7 gamma-BHC (Lindane)	9.486	9.486	0.000	9820	0.01000	0.009510
9 Heptachlor	10.306	10.306	0.000	11331	0.01000	0.009795
20 Endosulfan I	13.726	13.726	0.000	14278	0.01000	0.009891
23 Dieldrin	14.326	14.326	0.000	14975	0.01000	0.009744
26 Endrin	14.660	14.660	0.000	11670	0.01000	0.009921
29 4,4'-DDD	15.226	15.226	0.000	12225	0.01000	0.01057
32 4,4'-DDT	15.486	15.486	0.000	12867	0.01000	0.01020
35 Methoxychlor	16.520	16.520	0.000	12770	0.02000	0.01980
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	9618	0.01000	0.009949

Data File: \\pittpa02\chem\gc4.1\2231-G.b\D-B3114.d
Date : 23-MAR-2001 15:06

Client ID:

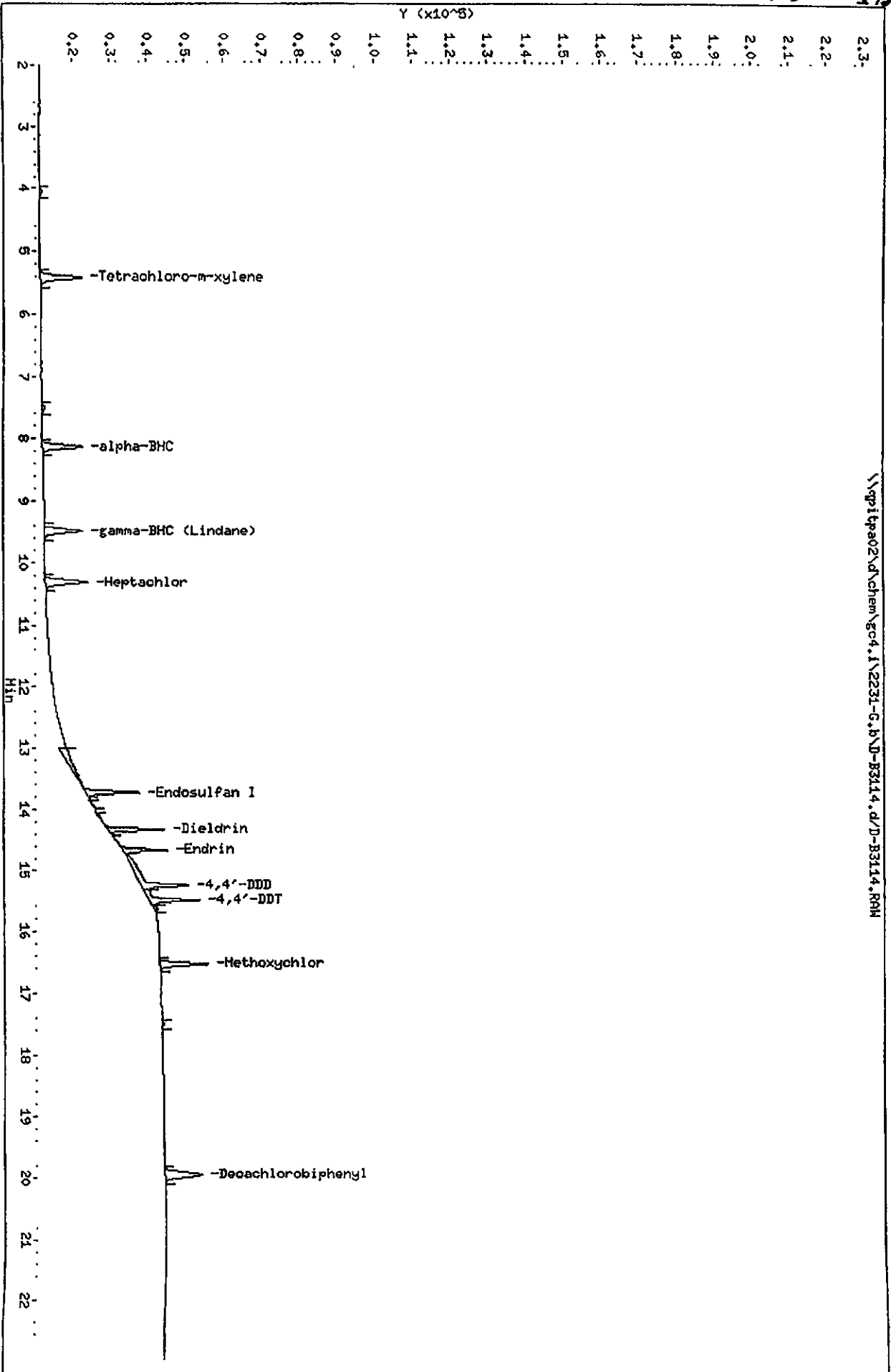
Sample Info: HLOM8,2231-G.b.,3-IND8,sub,1,2

Column phase: RTX-4701

Instrument: gc4.1

Operator: 010139

Column diameter: 0.53



679 430

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3115.d
 Report Date: 26-Mar-2001 10:14

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3115.d
 Lab Smp Id: MEDA
 Inj Date : 23-MAR-2001 15:34
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDA,2231-G.b,,3-INDA.sub,,1,3
 Misc Info : 190-100-8
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 15:34 Cal File: D-B3115.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	27893	0.02500	0.02500
6 alpha-BHC	8.120	8.120	0.000	32289	0.02500	0.02500
7 gamma-BHC (Lindane)	9.486	9.486	0.000	29858	0.02500	0.02500
9 Heptachlor	10.306	10.306	0.000	30467	0.02500	0.02500
20 Endosulfan I	13.726	13.726	0.000	38236	0.02500	0.02500
23 Dieldrin	14.326	14.326	0.000	41601	0.02500	0.02500
26 Endrin	14.660	14.660	0.000	31197	0.02500	0.02500
29 4,4'-DDD	15.226	15.226	0.000	29344	0.02500	0.02500
32 4,4'-DDT	15.486	15.486	0.000	31741	0.02500	0.02500
35 Methoxychlor	16.520	16.520	0.000	32802	0.05000	0.05000
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	24021	0.02500	0.02500

Data File: \\qpltpa02\chem\gc4.1\2231-G.b\B3115.d

Date: 23-MAR-2001 15:34

Client ID:

Sample Info: MEDA, 2231-G.b, 3-INDA, sub, 1,3

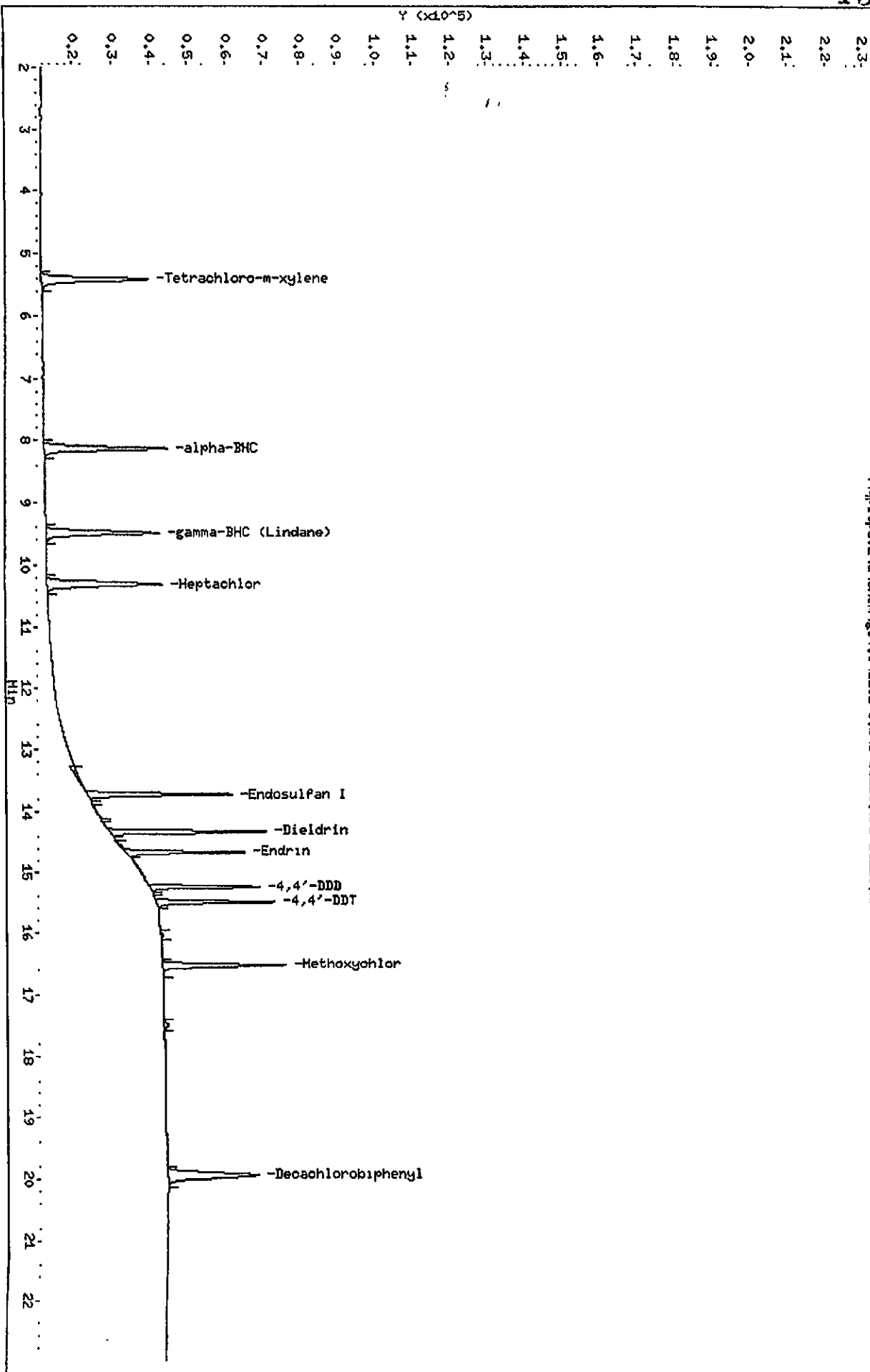
Column phase: RTX-1701

Instrument: gc4.1

Operator: 010139

Column diameter: 0.53

\\qpltpa02\chem\gc4.1\2231-G.b\B3115.d\B3115.RAW



679 432

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3116.d
Report Date: 26-Mar-2001 10:14

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3116.d
Lab Smp Id: MHIGHA
Inj Date : 23-MAR-2001 16:02
Operator : 010139 Inst ID: gc4.i
Smp Info : MHIGHA, 2231-G.b,, 3-INDA.sub,, 1,4
Misc Info : 190-100-9
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 17:55 Cal File: D-B3120.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC044

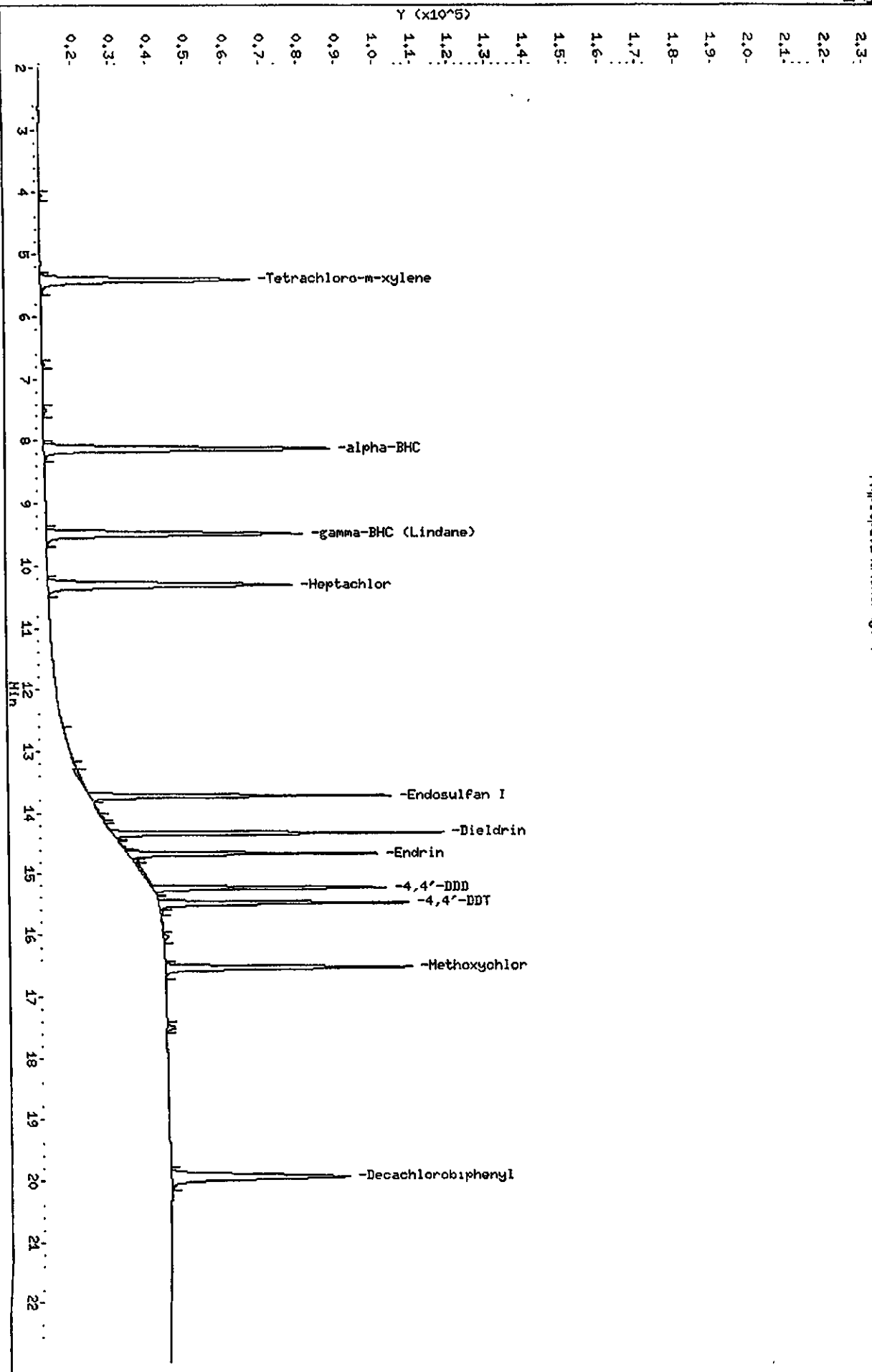
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	55532	0.05000	0.05096
6 alpha-BHC	8.120	8.120	0.000	75627	0.05000	0.06324
7 gamma-BHC (Lindane)	9.486	9.486	0.000	67995	0.05000	0.06101
9 Heptachlor	10.306	10.306	0.000	64605	0.05000	0.05426
20 Endosulfan I	13.726	13.726	0.000	79760	0.05000	0.05384
23 Dieldrin	14.326	14.326	0.000	87983	0.05000	0.05525
26 Endrin	14.666	14.666	0.006	66260	0.05000	0.05460
29 4,4'-DDD	15.226	15.226	0.000	62187	0.05000	0.05277
32 4,4'-DDT	15.486	15.486	0.000	66237	0.05000	0.05186
35 Methoxychlor	16.520	16.520	0.000	65523	0.10000	0.1012
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	47194	0.05000	0.04911

Data File: \\ppitpa02\chem\gc4.i\2231-G.b\B3116.d
Date: 23-MAR-2001 16:02
Client ID:
Sample Info: MHICHA,2231-G.b,3-INDRA,sub,1,4

Column phase: RTX-1701

Instrument: gc4.i
Operator: 010139
Column diameter: 0.53

\\ppitpa02\chem\gc4.i\2231-G.b\B3116.d\B3116.RAW



679 434

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3117.d
 Report Date: 26-Mar-2001 10:14

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3117.d
 Lab Smp Id: HIGHA
 Inj Date : 23-MAR-2001 16:31
 Operator : 010139 Inst ID: gc4.i
 Smp Info : HIGHA,2231-G.b,,3-INDA.sub,,1,5
 Misc Info : 190-100-10
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 17:55 Cal File: D-B3120.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC044

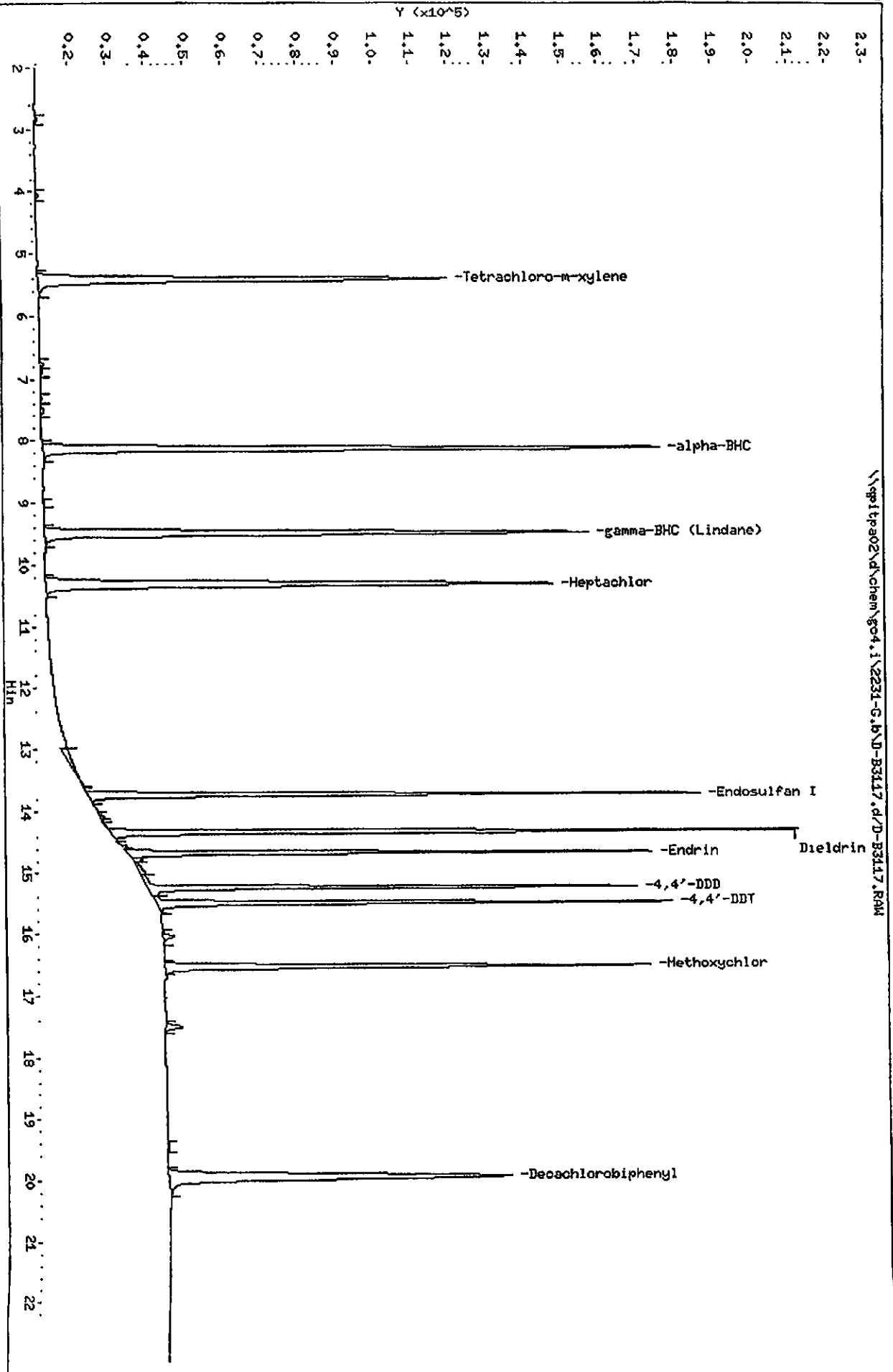
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	108315	0.10000	0.09952
6 alpha-BHC	8.120	8.120	0.000	163941	0.10000	0.1276 (A)
7 gamma-BHC (Lindane)	9.486	9.486	0.000	144632	0.10000	0.1225 (A)
9 Heptachlor	10.306	10.306	0.000	134690	0.10000	0.1102 (A)
20 Endosulfan I	13.726	13.726	0.000	162707	0.10000	0.1077 (A)
23 Dieldrin	14.326	14.326	0.000	182705	0.10000	0.1114 (A)
26 Endrin	14.666	14.666	0.006	139568	0.10000	0.1116 (A)
29 4,4'-DDD	15.226	15.226	0.000	130291	0.10000	0.1083 (A)
32 4,4'-DDT	15.486	15.486	0.000	137166	0.10000	0.1058 (A)
35 Methoxychlor	16.520	16.520	0.000	129208	0.20000	0.1997
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	91396	0.10000	0.09604

QC Flag Legend

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

Data File: \\spitpa02\chem\gc4.i\2231-G.b.D-B3447.d
 Date: 23-MAR-2001 16:31
 Client ID:
 Sample Info: HIGH, 2231-G.b., 3-INDR, sub., 1,5
 Column phase: RTX-1701

Instrument: gc4.i
 Operator: 010439
 Column diameter: 0.53



679 436

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3118.d
 Report Date: 26-Mar-2001 10:15

STL-Pittsburgh

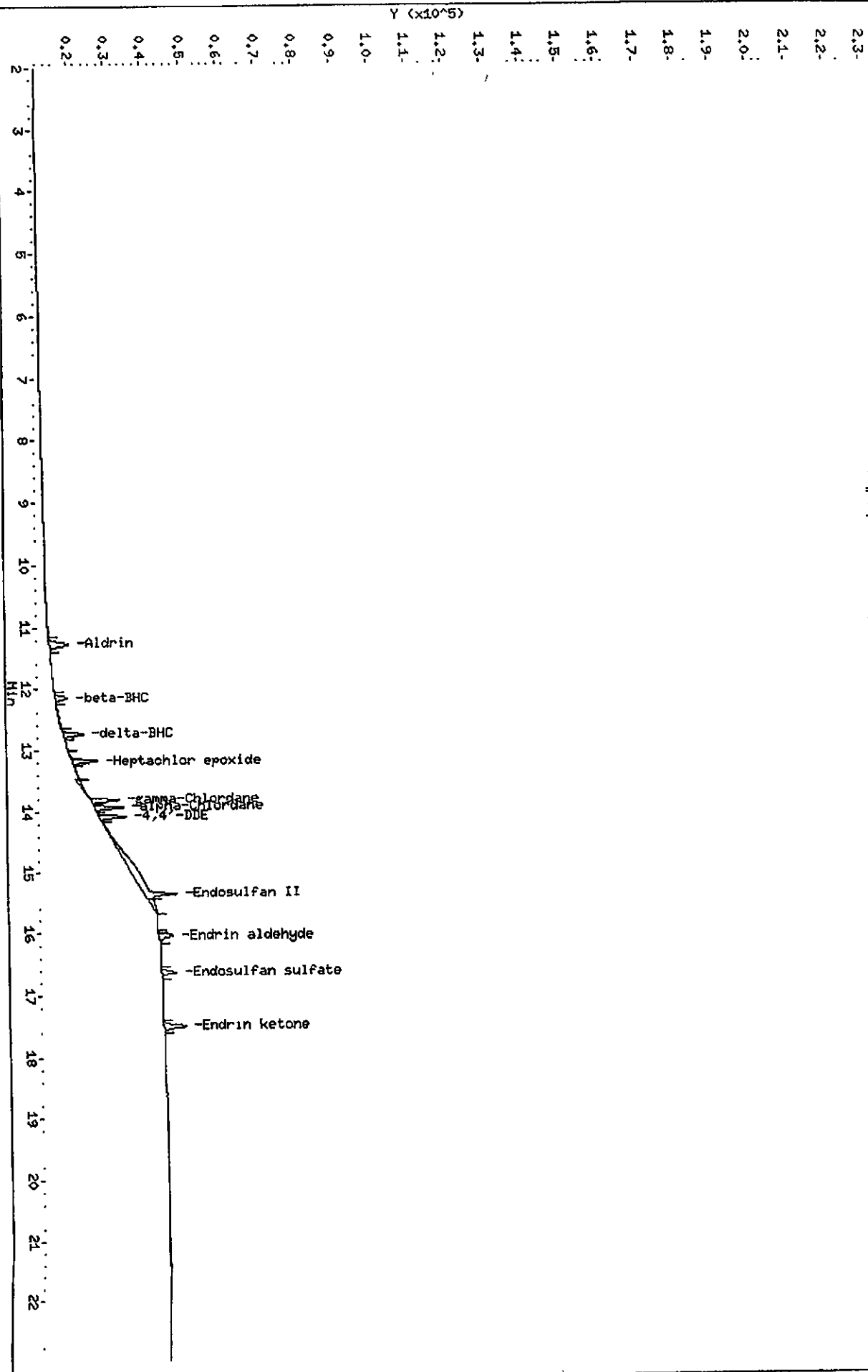
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3118.d
 Lab Smp Id: LOWB
 Inj Date : 23-MAR-2001 16:59
 Operator : 010139 Inst ID: gc4.i
 Smp Info : LOWB,2231-G.b,,4-INDB.sub,,1,1
 Misc Info : 190-100-12
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 17:55 Cal File: D-B3120.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	11.266	11.266	0.000	5038	0.00500	0.004645
10 beta-BHC	12.140	12.133	0.007	3367	0.00500	0.004721
11 delta-BHC	12.740	12.740	0.000	5253	0.00500	0.004269
17 Heptachlor epoxide	13.173	13.173	0.000	6779	0.00500	0.004768
18 gamma-Chlordane	13.813	13.813	0.000	7762	0.00500	0.004807
19 alpha-Chlordane	13.926	13.926	0.000	7761	0.00500	0.004822
22 4,4'-DDE	14.080	14.080	0.000	7252	0.00500	0.004741
31 Endosulfan II	15.353	15.353	0.000	8209	0.00500	0.005202
33 Endrin aldehyde	16.033	16.033	0.000	3540	0.00500	0.004930
34 Endosulfan sulfate	16.626	16.626	0.000	3712	0.00500	0.004801
37 Endrin ketone	17.500	17.500	0.000	5464	0.00500	0.004886

Data File: \\spitpa02\chem\gc4.i\2231-G.b\D-B3118.d
Date: 23-MAR-2001 16:59
Client ID:
Sample Info: LOW, 2231-G.b, 4-INDS.sub, 1.1
Column phase: RTX-4701

Instrument: gc4.i
Operator: 010139
Column diameter: 0.53

\\spitpa02\chem\gc4.i\2231-G.b\D-B3118.d\D-B3118.RAW



673 438

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3119.d
 Report Date: 26-Mar-2001 10:15

STL-Pittsburgh

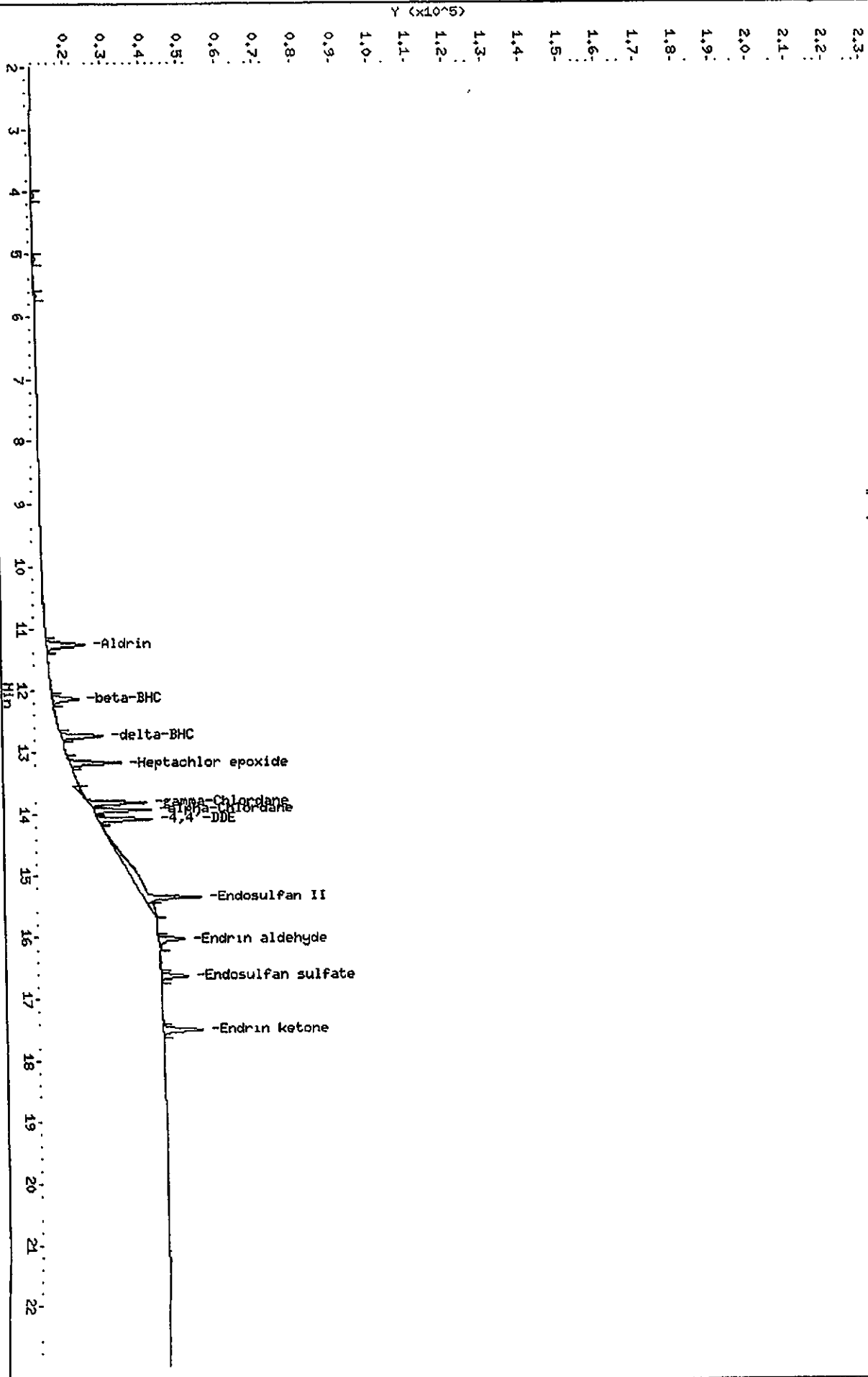
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3119.d
 Lab Smp Id: MLOWB
 Inj Date : 23-MAR-2001 17:27
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MLOWB,2231-G.b,,4-INDB.sub,,1,2
 Misc Info : 190-100-13
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 17:55 Cal File: D-B3120.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	--	-----	-----	-----	-----	-----
13 Aldrin	11.266	11.266	0.000	10097	0.01000	0.009529
10 beta-BHC	12.133	12.133	0.000	6787	0.01000	0.009672
11 delta-BHC	12.740	12.740	0.000	11111	0.01000	0.009331
17 Heptachlor epoxide	13.173	13.173	0.000	13472	0.01000	0.009644
18 gamma-Chlordane	13.813	13.813	0.000	15317	0.01000	0.009651
19 alpha-Chlordane	13.926	13.926	0.000	15253	0.01000	0.009646
22 4,4'-DDE	14.080	14.080	0.000	14458	0.01000	0.009628
31 Endosulfan II	15.353	15.353	0.000	14893	0.01000	0.009619
33 Endrin aldehyde	16.033	16.033	0.000	6865	0.01000	0.009703
34 Endosulfan sulfate	16.626	16.626	0.000	7261	0.01000	0.009585
37 Endrin ketone	17.500	17.500	0.000	10540	0.01000	0.009610

Data File: \\qpi1pa02\chem\gc4,1\2231-G,b,D-B3119.d
 Date: 23-MAR-2001 17:27
 Client ID:
 Sample Info: HLOMB, 2231-G,b,,4-INDB.sub,,1,2
 Column phase: RTX-1701

Instrument: gc4.i
 Operator: 010139
 Column diameter: 0.53

\\qpi1pa02\chem\gc4,1\2231-G,b,D-B3119.d/D-B3119.RAW



679 440

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3120.d
Report Date: 26-Mar-2001 10:15

STL-Pittsburgh

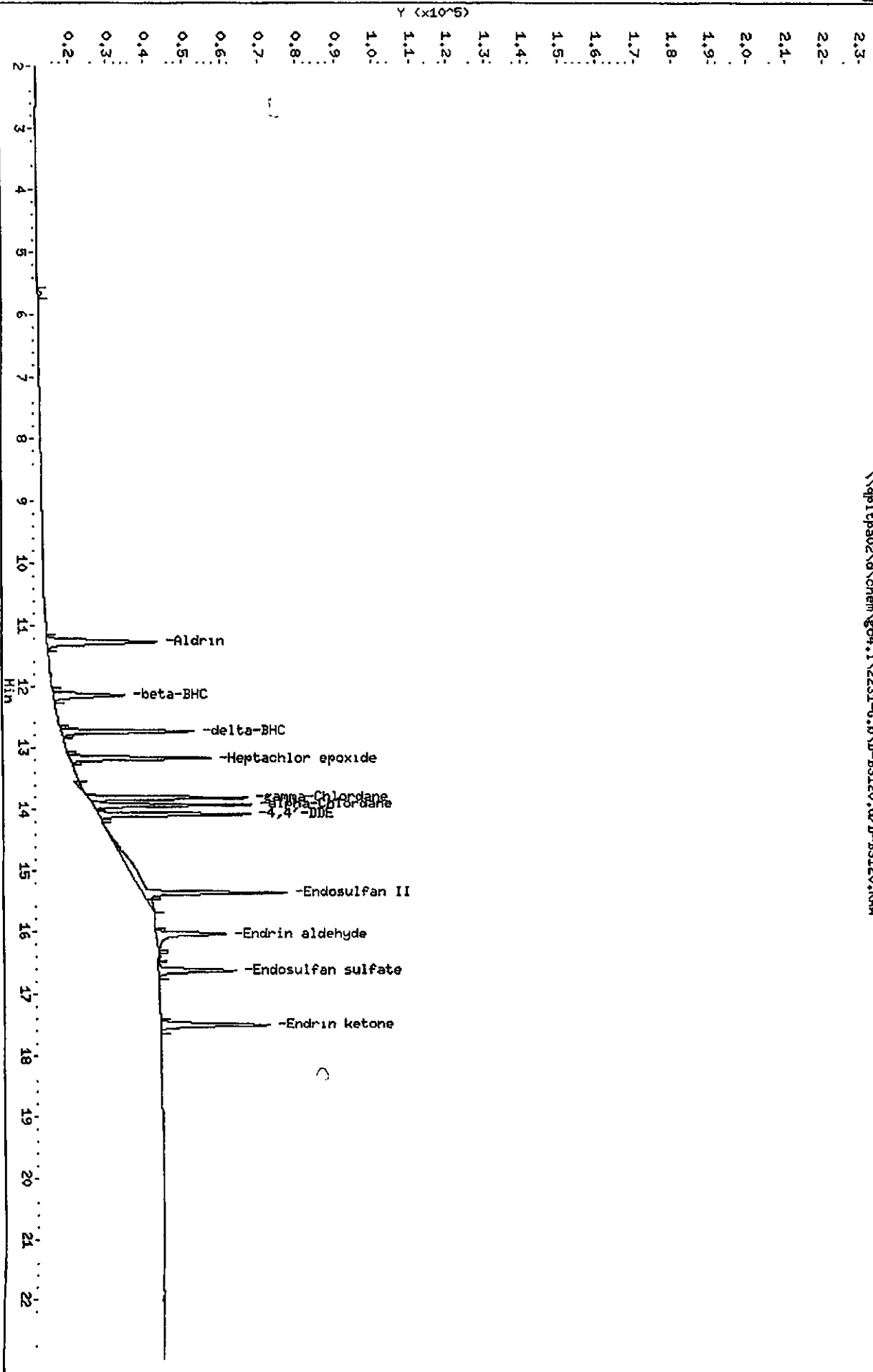
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3120.d
Lab Smp Id: MEDB
Inj Date : 23-MAR-2001 17:55
Operator : 010139 Inst ID: gc4.i
Smp Info : MEDB,2231-G.b,,4-INDB.sub,,1,3
Misc Info : 190-100-14
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 17:55 Cal File: D-B3120.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	11.266	11.266	0.000	29037	0.02500	0.02500
10 beta-BHC	12.133	12.133	0.000	18823	0.02500	0.02500
11 delta-BHC	12.740	12.740	0.000	35263	0.02500	0.02500
17 Heptachlor epoxide	13.173	13.173	0.000	37194	0.02500	0.02500
18 gamma-Chlordane	13.813	13.813	0.000	41926	0.02500	0.02500
19 alpha-Chlordane	13.926	13.926	0.000	41661	0.02500	0.02500
22 4,4'-DDE	14.080	14.080	0.000	40218	0.02500	0.02500
31 Endosulfan II	15.353	15.353	0.000	37849	0.02500	0.02500
33 Endrin aldehyde	16.033	16.033	0.000	18201	0.02500	0.02500
34 Endosulfan sulfate	16.626	16.626	0.000	20101	0.02500	0.02500
37 Endrin ketone	17.500	17.500	0.000	28590	0.02500	0.02500

Data File: \\pittpa02\chem\gc4.i\2231-G.b.D-B3120.d
 Date : 23-MAR-2001 17:55
 Client ID:
 Sample Info: MEUB,2231-G.b,4-INDB,sub,1,3
 Column phase: RTX-1701

Instrument: gc4.i
 Operator: 010139
 Column diameter: 0.53

\\pittpa02\chem\gc4.i\2231-G.b.D-B3120.d\B-B3120.RM



679 442

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3121.d
 Report Date: 26-Mar-2001 10:15

STL-Pittsburgh

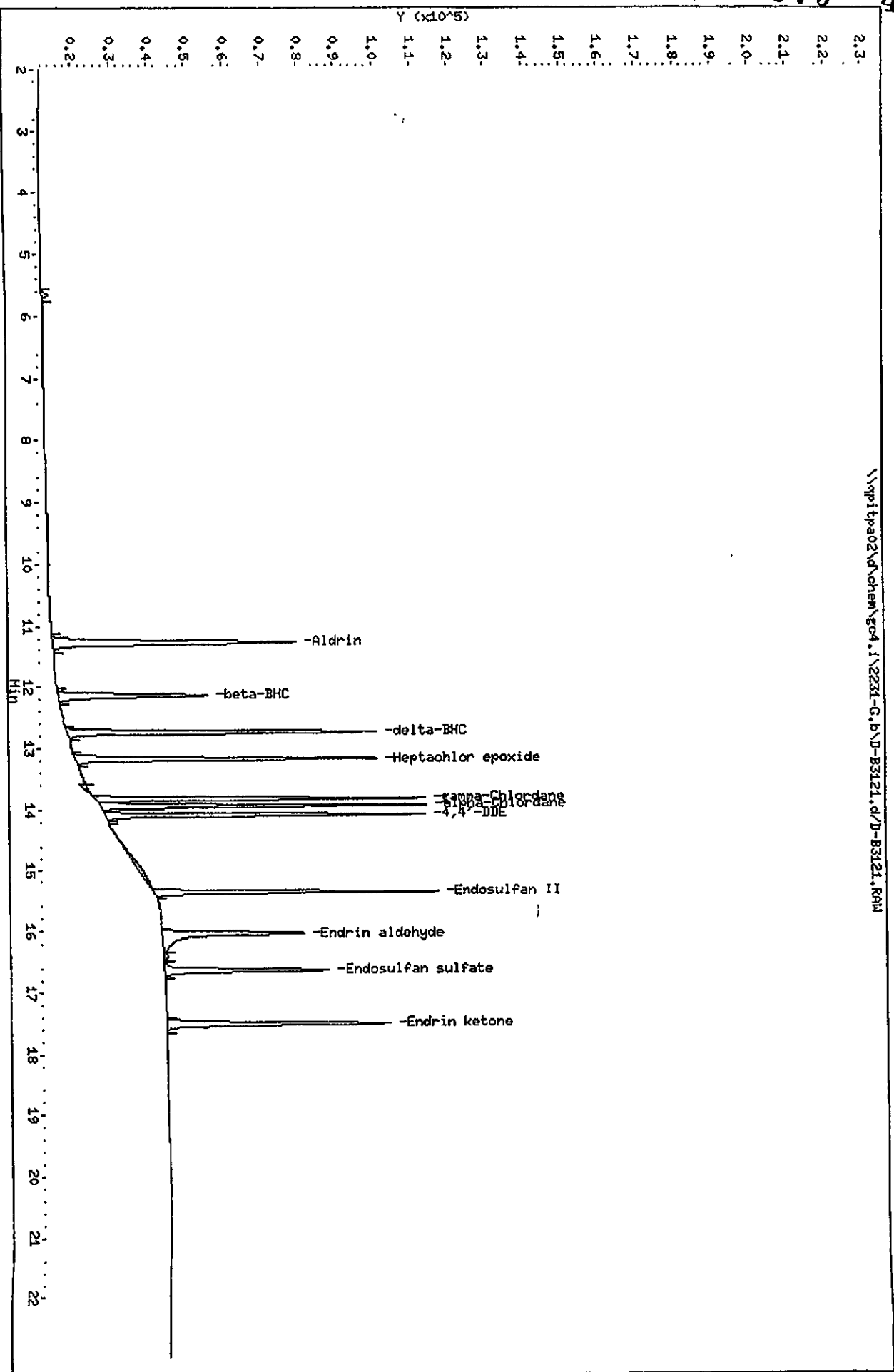
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3121.d
 Lab Smp Id: MHIGHB
 Inj Date : 23-MAR-2001 18:23
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MHIGHB,2231-G.b,,4-INDB.sub,,1,4
 Misc Info : 190-101-1
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:23 Cal File: D-B3121.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	11.266	11.266	0.000	65163	0.05000	0.05815
10 beta-BHC	12.133	12.133	0.000	39638	0.05000	0.05471
11 delta-BHC	12.733	12.740	-0.007	82779	0.05000	0.06334
17 Heptachlor epoxide	13.173	13.173	0.000	80620	0.05000	0.05557
18 gamma-Chlordane	13.813	13.813	0.000	88179	0.05000	0.05406
19 alpha-Chlordane	13.926	13.926	0.000	87362	0.05000	0.05383
22 4,4'-DDE	14.080	14.080	0.000	85734	0.05000	0.05514
31 Endosulfan II	15.353	15.353	0.000	76364	0.05000	0.04949
33 Endrin aldehyde	16.033	16.033	0.000	38277	0.05000	0.05301
34 Endosulfan sulfate	16.626	16.626	0.000	43958	0.05000	0.05579
37 Endrin ketone	17.500	17.500	0.000	59900	0.05000	0.05338

Data File: \\pittpa02\chem\g04.1\2231-G.b\B3121.d
 Date: 23-MAR-2001 18:23
 Client ID:
 Sample Info: HHIGHB,2231-G.b,4-INDB.sub,1,4
 Column phase: RTX-1701

Instrument: g04.1
 Operator: 010139
 Column diameter: 0.53

\\pittpa02\chem\g04.1\2231-G.b\B3121.d\B3121.RAW



679 444

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3122.d
Report Date: 26-Mar-2001 10:15

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3122.d
Lab Smp Id: HIGHB
Inj Date : 23-MAR-2001 18:52
Operator : 010139 Inst ID: gc4.i
Smp Info : HIGHB,2231-G.b,,4-INDB.sub,,1,5
Misc Info : 190-101-2
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-B3122.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	11.266	11.266	0.000	135889	0.10000	0.1163 (A)
10 beta-BHC	12.126	12.133	-0.007	78856	0.10000	0.1070 (A)
11 delta-BHC	12.733	12.740	-0.007	176337	0.10000	0.1261 (A)
17 Heptachlor epoxide	13.173	13.173	0.000	162870	0.10000	0.1096 (A)
18 gamma-Chlordane	13.813	13.813	0.000	176538	0.10000	0.1065 (A)
19 alpha-Chlordane	13.926	13.926	0.000	173139	0.10000	0.1053 (A)
22 4,4'-DDE	14.080	14.080	0.000	173227	0.10000	0.1089 (A)
31 Endosulfan II	15.353	15.353	0.000	153506	0.10000	0.09958
33 Endrin aldehyde	16.033	16.033	0.000	75971	0.10000	0.1041 (A)
34 Endosulfan sulfate	16.626	16.626	0.000	91338	0.10000	0.1123 (A)
37 Endrin ketone	17.500	17.500	0.000	119784	0.10000	0.1053 (A)

QC Flag Legend

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

Data File: \\ppitpa02\chem\gc04.1\2231-G.b\D-B3122.d

Date : 23-MAR-2004 18:52

Client ID:

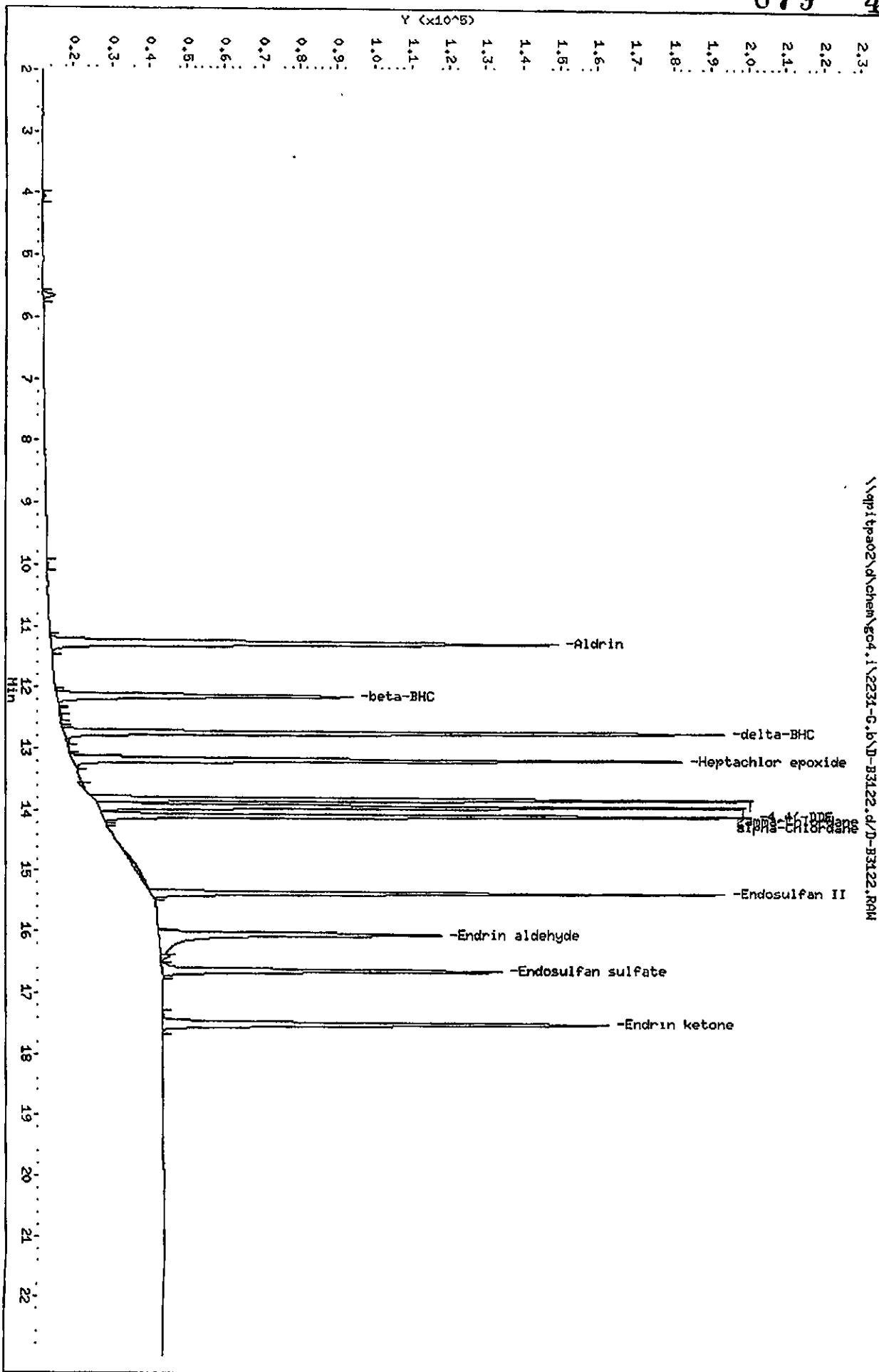
Sample Info: HIGB,2231-G.b,4-INDB,sub,1.5

Column Phase: RTX-1701

Instrument: gc04.i

Operator: 010439

Column diameter: 0.53



673 446

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3123.d
 Report Date: 26-Mar-2001 10:16

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3123.d
 Lab Smp Id: 2ND A
 Inj Date : 23-MAR-2001 19:20
 Operator : 010139
 Smp Info : 2ND A,2231-G.b,,INDA.sub,,2,3
 Misc Info : 190-101-7
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol
 Cal Date : 23-MAR-2001 18:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC044

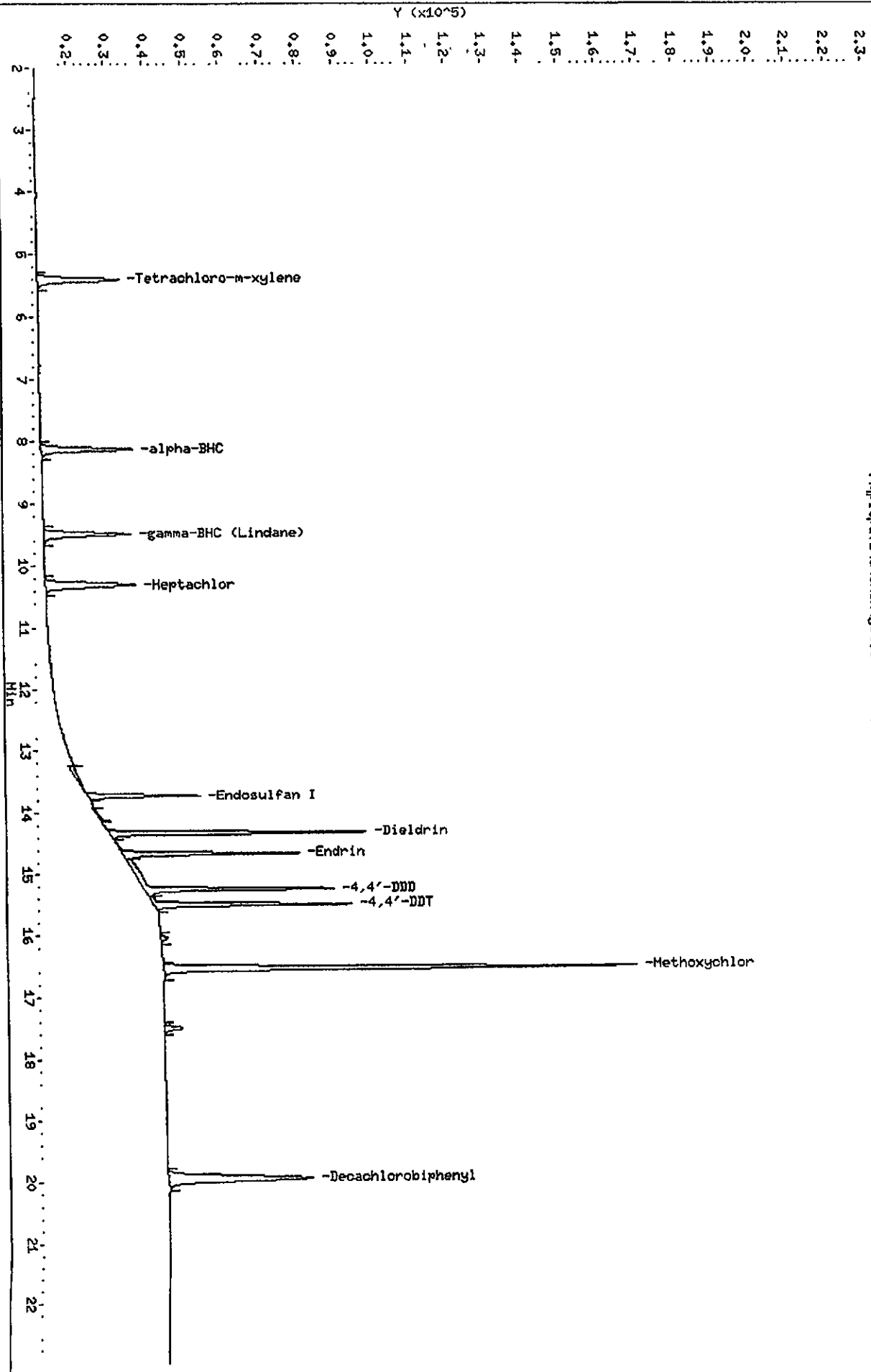
Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: D-B3122.d
 Continuing Calibration Sample
 Compound Sublist: INDA.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	21324	0.02500	0.01959
6 alpha-BHC	8.120	8.120	0.000	24117	0.02500	0.01877
7 gamma-BHC (Lindane)	9.486	9.486	0.000	22631	0.02500	0.01917
9 Heptachlor	10.306	10.306	0.000	23923	0.02500	0.01958
20 Endosulfan I	13.726	13.726	0.000	29962	0.02500	0.01984
23 Dieldrin	14.326	14.326	0.000	68018	0.02500	0.04149
26 Endrin	14.660	14.660	0.000	46712	0.02500	0.03737
29 4,4'-DDD	15.226	15.226	0.000	50394	0.02500	0.04188
32 4,4'-DDT	15.486	15.486	0.000	52533	0.02500	0.04061
35 Methoxychlor	16.513	16.520	-0.007	126041	0.05000	0.1948
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	38141	0.02500	0.04008

Data File: \\vp1tpa02\chem\gc4.i\2231-G.b\D-B3123.d
Date: 23-MAR-2001 19:20
Client ID:
Sample Info: 2ND A,2231-G.b,,INDR.sub,2,3
Column phase: RTX-4701

Instrument: gc4.i
Operator: 010139
Column diameter: 0.53

\\vp1tpa02\chem\gc4.i\2231-G.b\D-B3123.d\D-B3123.RAW



679 443

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3124.d
 Report Date: 26-Mar-2001 10:16

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3124.d
 Lab Smp Id: 2ND B
 Inj Date : 23-MAR-2001 19:48
 Operator : 010139 Inst ID: gc4.i
 Smp Info : 2ND B, 2231-G.b, , INDB.sub, , 2, 3
 Misc Info : 190-101-10
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-B3122.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
13 Aldrin	11.266	11.266	0.000	21170	0.02500	0.01812
10 beta-BHC	12.133	12.133	0.000	14095	0.02500	0.01912
11 delta-BHC	12.740	12.740	0.000	26082	0.02500	0.01865
17 Heptachlor epoxide	13.166	13.173	-0.007	28791	0.02500	0.01937
18 gamma-Chlordane	13.813	13.813	0.000	32745	0.02500	0.01975
19 alpha-Chlordane	13.926	13.926	0.000	31656	0.02500	0.01925
22 4,4'-DDE	14.080	14.080	0.000	64183	0.02500	0.04036
31 Endosulfan II	15.353	15.353	0.000	56940	0.02500	0.03694
33 Endrin aldehyde	16.033	16.033	0.000	28213	0.02500	0.03867
34 Endosulfan sulfate	16.626	16.626	0.000	32753	0.02500	0.04028
37 Endrin ketone	17.500	17.500	0.000	45371	0.02500	0.03990

679

449

Data File: \\ppitpa02\chem\gc4.1\2231-G.b\D-B3124.d

Date: 23-MAR-2001 19:48

Client ID:

Sample Info: 2ND B, 2231-G.b., INDB, sub., 2,3

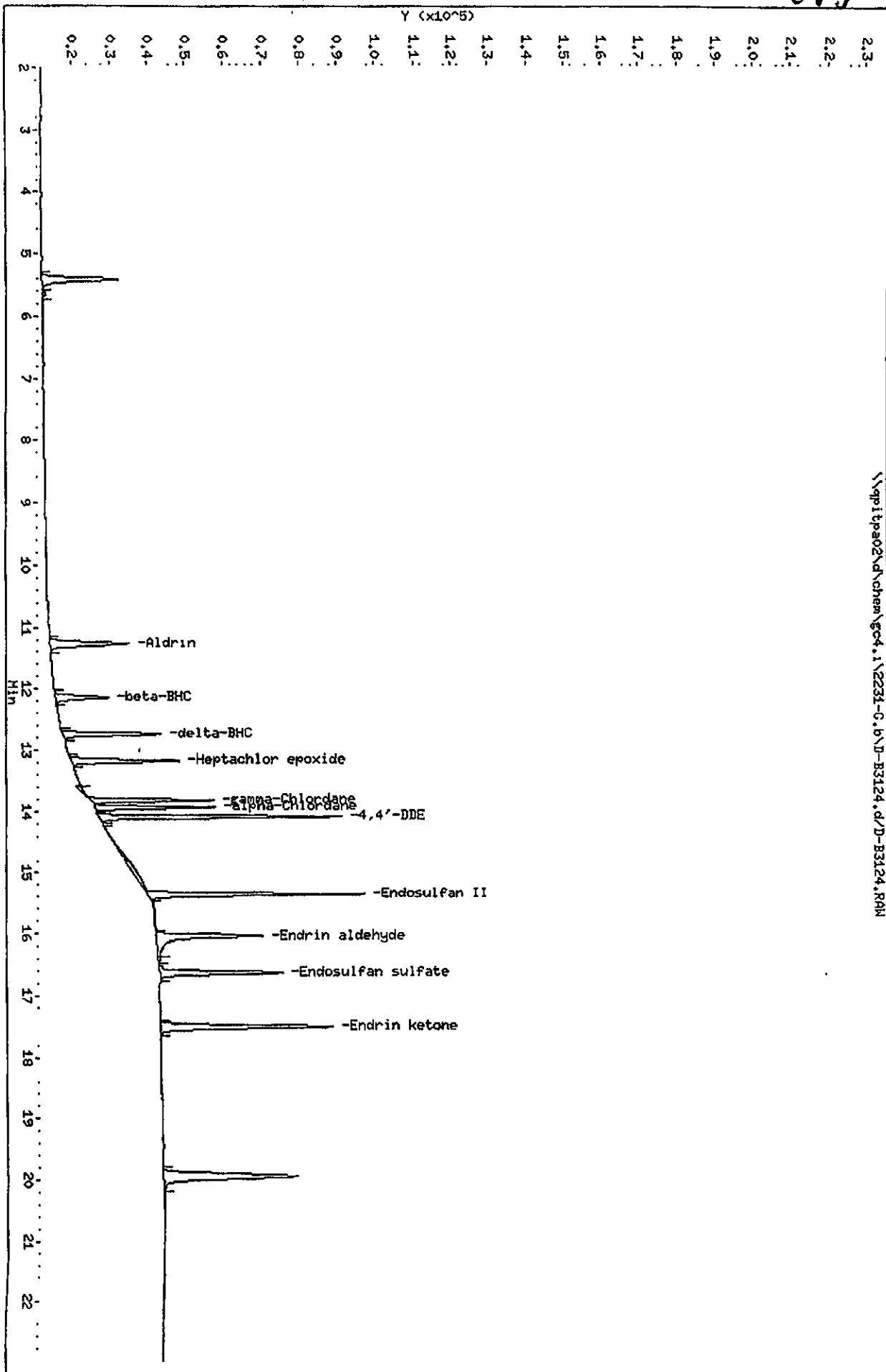
Column phase: RTX-1701

Instrument: gc4.1

Operator: 010139

Column diameter: 0.53

\\ppitpa02\chem\gc4.1\2231-G.b\D-B3124.d\D-B3124.RAW



679 450

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3125.d
Report Date: 26-Mar-2001 10:16

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3125.d
Lab Smp Id: EVALB
Inj Date : 23-MAR-2001 20:16
Operator : 010139 Inst ID: gc4.i
Smp Info : EVALB,2231-G.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-B3122.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	20992	0.01929	0.01929(R)
22 4,4'-DDE	Compound Not Detected.					
26 Endrin	14.666	14.660	0.006	29108	0.02329	0.02329
29 4,4'-DDD	15.233	15.226	0.007	1240	0.00103	0.001030
32 4,4'-DDT	15.486	15.486	0.000	30973	0.02390	0.02390
33 Endrin aldehyde	16.033	16.033	0.000	686	0.00094	0.0009403
37 Endrin ketone	17.500	17.500	0.000	1043	<0.0	0.0009171
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	18943	0.01991	0.01991(R)

QC Flag Legend

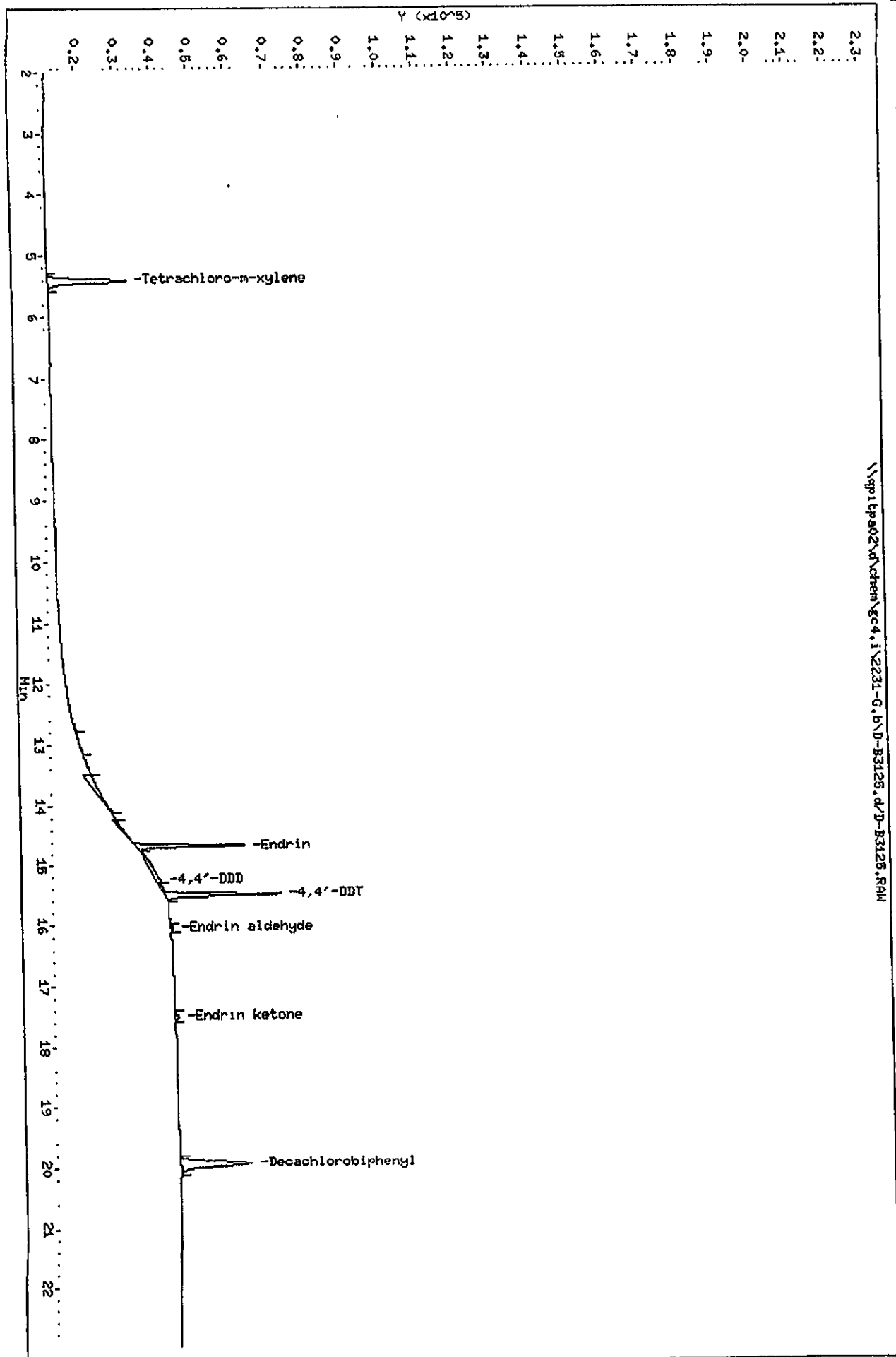
R - Spike/surrogate failed recovery limits.

DDT = 3.8
Endrin = 5.6

Data File: \\qpltpa02\chem\gc4.1\2231-G.b\B3125.d
Date: 23-MAR-2001 20:16
Client ID:
Sample Info: EVALB, 2231-G.b, EVALBR, sub,, 3,1
Column phase: RTX-1701

Instrument: gc4.1
Operator: 041039
Column diameter: 0.53

\\qpltpa02\chem\gc4.1\2231-G.b\B3125.d\B3125.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3146.d
 Report Date: 26-Mar-2001 10:21

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3146.d
 Lab Smp Id: MEDA
 Inj Date : 24-MAR-2001 06:06
 Operator : 010139
 Smp Info : MEDA,2231-G.b,, INDA.sub,,2,3
 Misc Info : 190-100-8
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol
 Cal Date : 23-MAR-2001 18:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC044

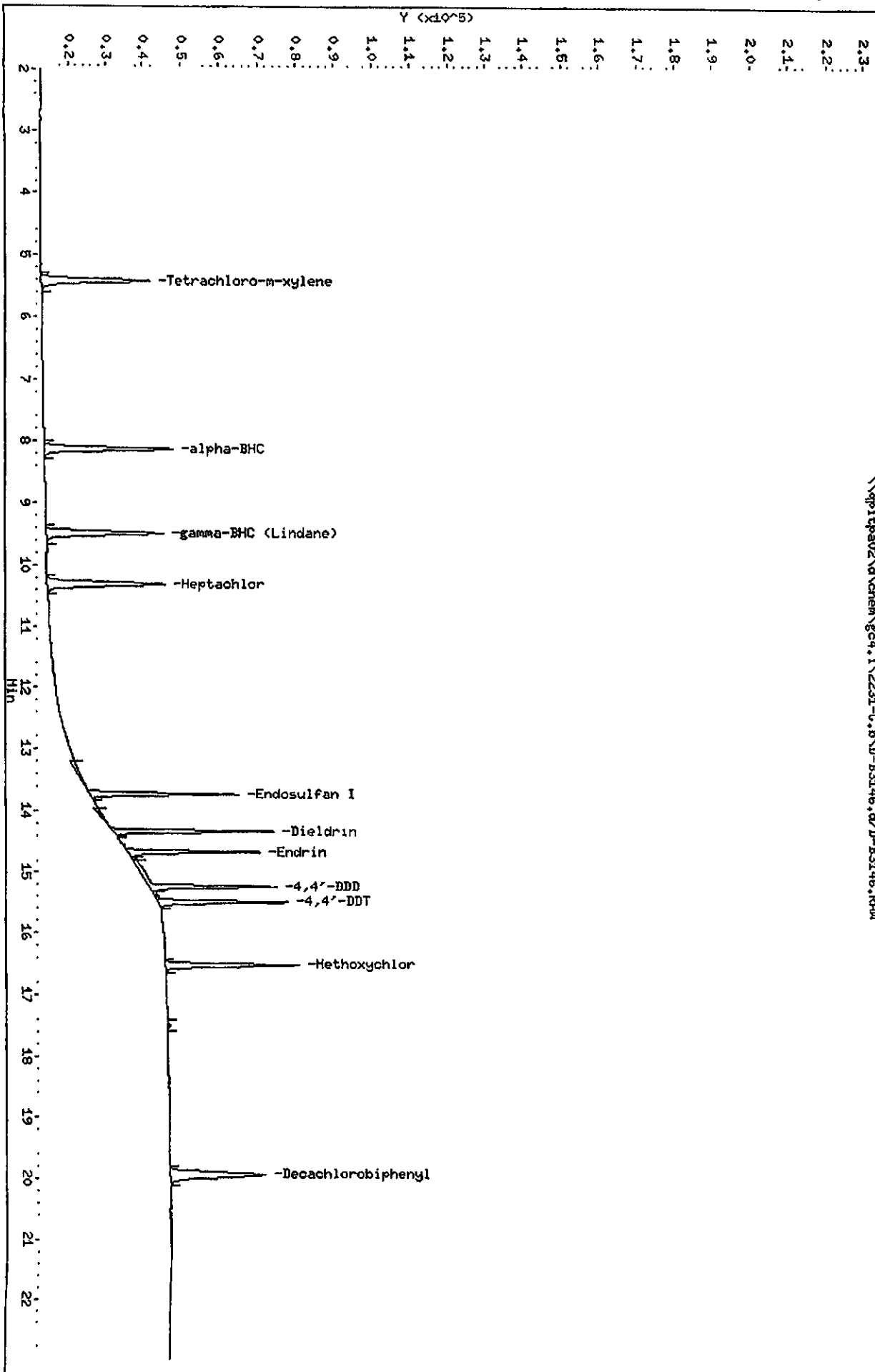
Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: D-B3122.d
 Continuing Calibration Sample
 Compound Sublist: INDA.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
-----	==	=====	=====	=====	=====	=====
\$ 2 Tetrachloro-m-xylene	5.413	5.406	0.007	28923	0.02500	0.02657
6 alpha-BHC	8.120	8.120	0.000	34142	0.02500	0.02658
7 gamma-BHC (Lindane)	9.486	9.486	0.000	31285	0.02500	0.02650
9 Heptachlor	10.306	10.306	0.000	31383	0.02500	0.02568
20 Endosulfan I	13.726	13.726	0.000	39558	0.02500	0.02619
23 Dieldrin	14.333	14.326	0.007	42425	0.02500	0.02588
26 Endrin	14.666	14.660	0.006	34985	0.02500	0.02799
29 4,4'-DDD	15.226	15.226	0.000	33776	0.02500	0.02807
32 4,4'-DDT	15.486	15.486	0.000	34078	0.02500	0.02629
35 Methoxychlor	16.520	16.520	0.000	35043	0.05000	0.05415
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	24860	0.02500	0.02612

Data File: \\ppitpa02\chem\gc4.i\2231-C.b.D-B3146.d
Date: 24-MAR-2001 06:06
Client ID:
Sample Info: HEDA,2231-G.b.,INDA,sub,2,3
Column phase: RTX-1701

Instrument: gc4.i
Operator: 010139
Column diameter: 0.53

\\ppitpa02\chem\gc4.i\2231-C.b.D-B3146.d/D-B3146.R01



679 454

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3147.d
 Report Date: 26-Mar-2001 10:21

STL-Pittsburgh

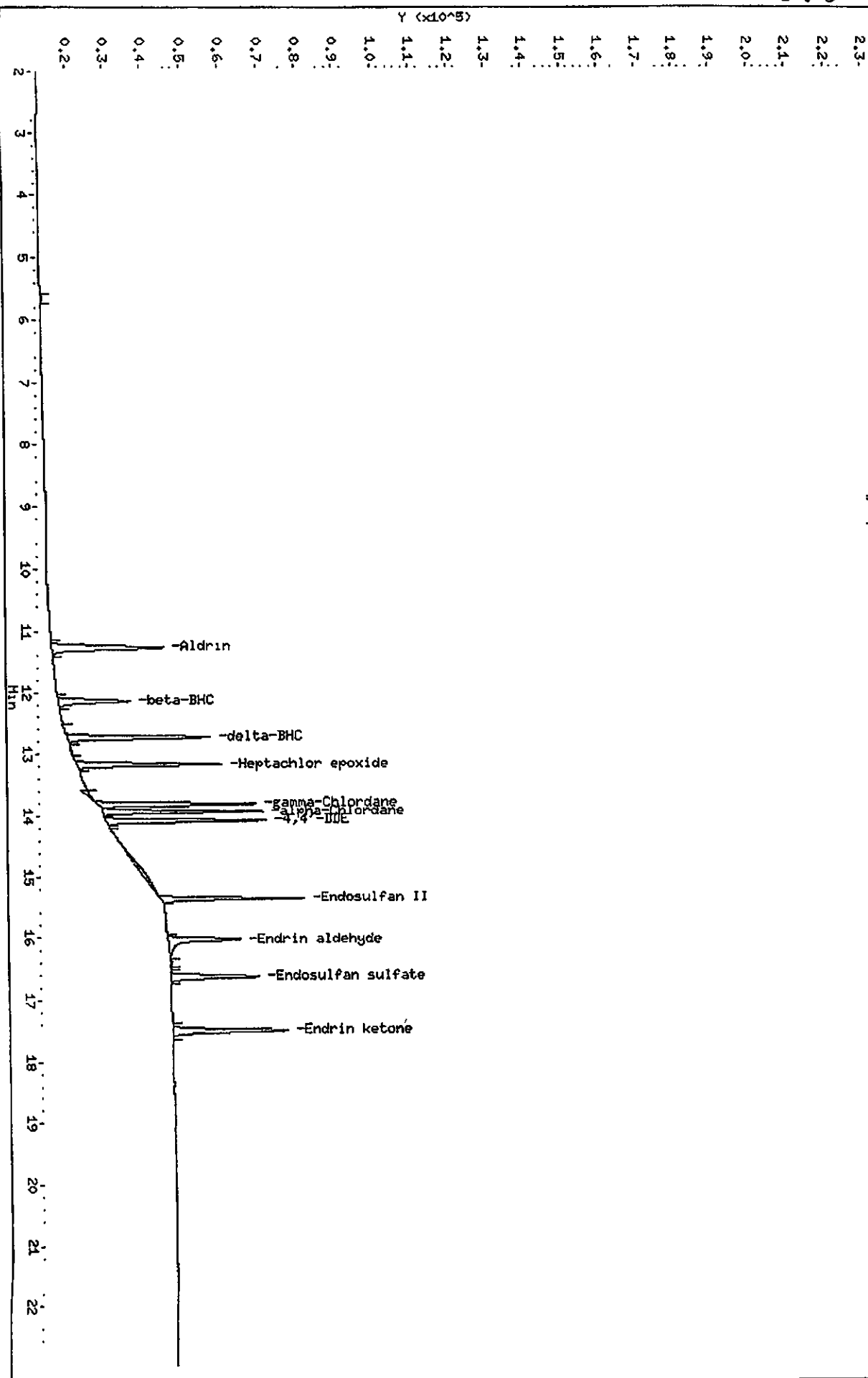
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3147.d
 Lab Smp Id: MEDB
 Inj Date : 24-MAR-2001 06:34
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDB,2231-G.b,,INDB.sub,,2,3
 Misc Info : 190-100-14
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-B3122.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	RT	*****	*****	*****	*****	*****
13 Aldrin	11.266	11.266	0.000	29255	0.02500	0.02504
10 beta-BHC	12.133	12.133	0.000	19128	0.02500	0.02594
11 delta-BHC	12.733	12.740	-0.007	37827	0.02500	0.02705
17 Heptachlor epoxide	13.173	13.173	0.000	38209	0.02500	0.02571
18 gamma-Chlordane	13.813	13.813	0.000	41438	0.02500	0.02499
19 alpha-Chlordane	13.933	13.926	0.007	41993	0.02500	0.02554
22 4,4'-DDE	14.080	14.080	0.000	41936	0.02500	0.02637
31 Endosulfan II	15.353	15.353	0.000	37579	0.02500	0.02438
33 Endrin aldehyde	16.033	16.033	0.000	19001	0.02500	0.02604
34 Endosulfan sulfate	16.626	16.626	0.000	23082	0.02500	0.02839
37 Endrin ketone	17.500	17.500	0.000	30127	0.02500	0.02649

Data File: \\apitpa02\chem\gc04.1\2231-G.b.D-B3147.d
Date: 24-MAR-2001 06:34
Client ID:
Sample Info: HEDB, 2231-G.b, 1NDB, sub., 2,3
Column phase: RTX-1701

Instrument: gc04.1
Operator: 010139
Column diameter: 0.53

\\apitpa02\chem\gc04.1\2231-G.b.D-B3147.d/D-B3147.RAW



679 456

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3148.d
 Report Date: 26-Mar-2001 10:21

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3148.d
 Lab Smp Id: EVALB
 Inj Date : 24-MAR-2001 07:03
 Operator : 010139 Inst ID: gc4.i
 Smp Info : EVALB,2231-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-102-10
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-B3122.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 2 Tetrachloro-m-xylene	5.413	5.406	0.007	21998	0.02021	0.02021 (R)
22 4,4'-DDE	Compound Not Detected.					
26 Endrin	14.666	14.660	0.006	33404	0.02672	0.02672
29 4,4'-DDD	15.226	15.226	0.000	1535	0.00128	0.001276
32 4,4'-DDT	15.486	15.486	0.000	32956	0.02543	0.02543
33 Endrin aldehyde	Compound Not Detected.					
37 Endrin ketone	17.493	17.500	-0.007	620	<0.0	0.0005452
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	19521	0.02051	0.02051 (R)

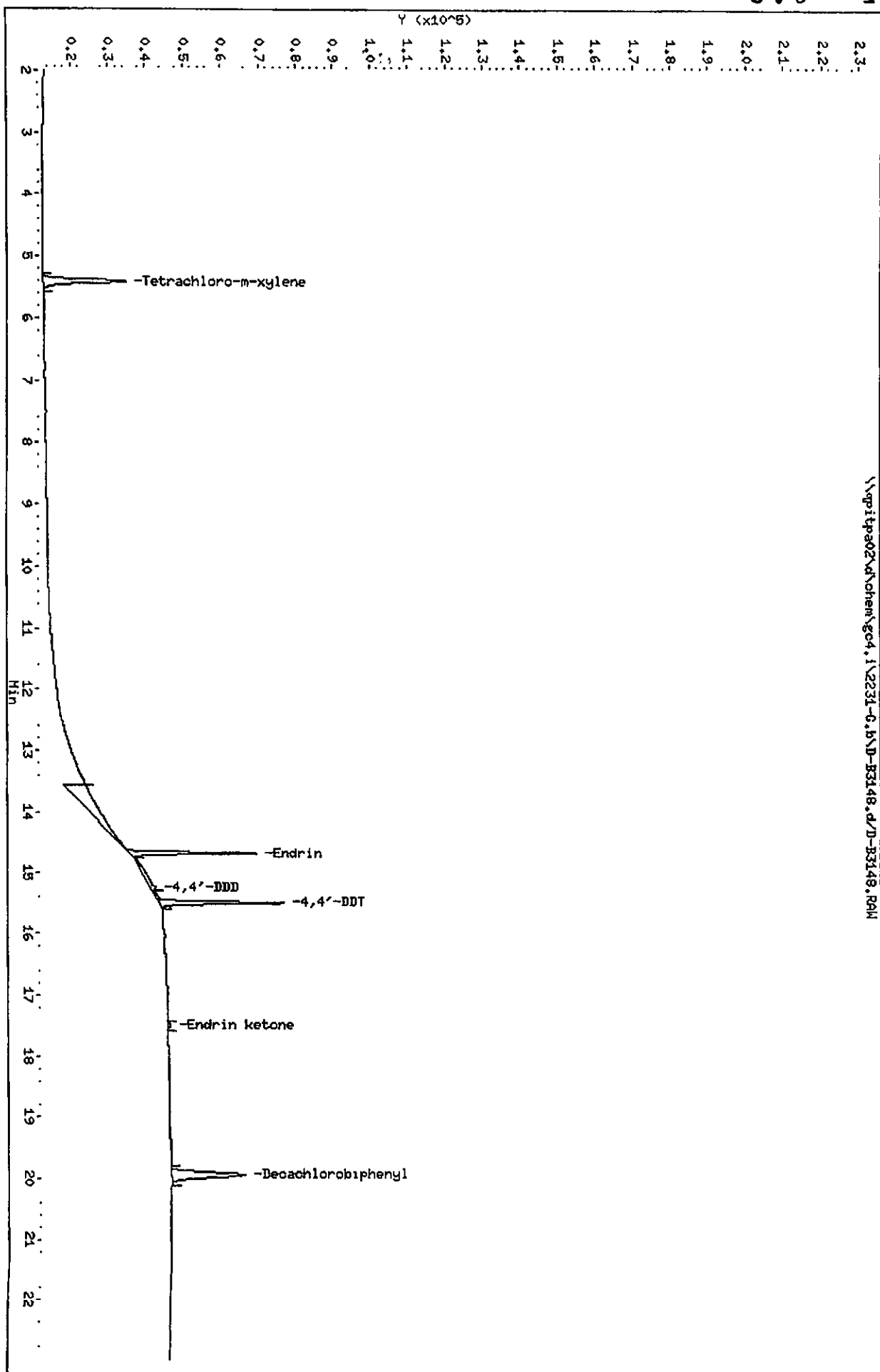
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT = 4.5
 endrin 18

Data File: \\pittpa02\chem\gc4.i\2231-G.b\B3148.d
Date : 24-MAR-2001 07:03
Client ID:
Sample Info: EVALB,2231-G.b,EVALBR,sub,,3,1
Column phase: RTX-1701

Instrument: gc4.i
Operator: 010139
Column diameter: 0.53



679 458

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3169.d
 Report Date: 26-Mar-2001 10:26

STL-Pittsburgh

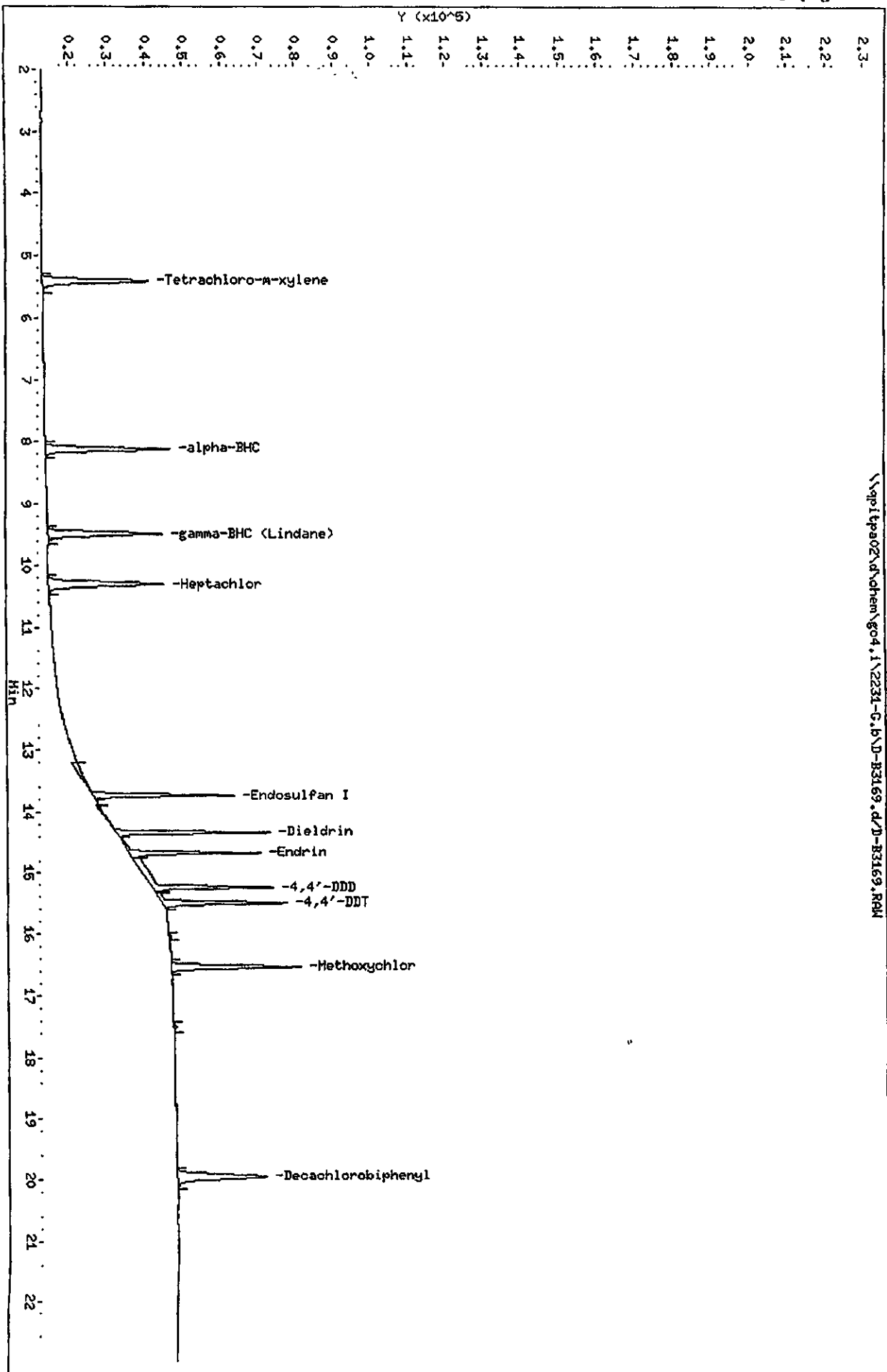
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3169.d
 Lab Smp Id: MEDA
 Inj Date : 24-MAR-2001 16:54
 Operator : 010139
 Smp Info : MEDA,2231-G.b,,INDA.sub,,2,3
 Misc Info : 190-100-8
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol
 Cal Date : 23-MAR-2001 18:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC044

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: D-B3122.d
 Continuing Calibration Sample
 Compound Sublist: INDA.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	..	*****	*****	*****	*****	*****
\$ 2 Tetrachloro-m-xylene	5.406	5.406	0.000	27785	0.02500	0.02553
6 alpha-BHC	8.113	8.120	-0.007	32706	0.02500	0.02546
7 gamma-BHC (Lindane)	9.480	9.486	-0.006	30259	0.02500	0.02563
9 Heptachlor	10.306	10.306	0.000	30161	0.02500	0.02468
20 Endosulfan I	13.726	13.726	0.000	37635	0.02500	0.02491
23 Dieldrin	14.326	14.326	0.000	41128	0.02500	0.02509
26 Endrin	14.660	14.660	0.000	34948	0.02500	0.02796
29 4,4'-DDD	15.226	15.226	0.000	32256	0.02500	0.02681
32 4,4'-DDT	15.486	15.486	0.000	33146	0.02500	0.02557
35 Methoxychlor	16.513	16.520	-0.007	34413	0.05000	0.05318
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	23989	0.02500	0.02521

Data File: \\spitpa02\chem\g04.1\2231-G.b\D-B3169.d
Date : 24-MAR-2001 16:54
Client ID:
Sample Info: MEUA,2231-G.b,INDR,sub,,2,3
Column phase: RTX-1701

Instrument: g04.i
Operator: 010139
Column diameter: 0.53



679 460

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3170.d
 Report Date: 26-Mar-2001 10:26

STL-Pittsburgh

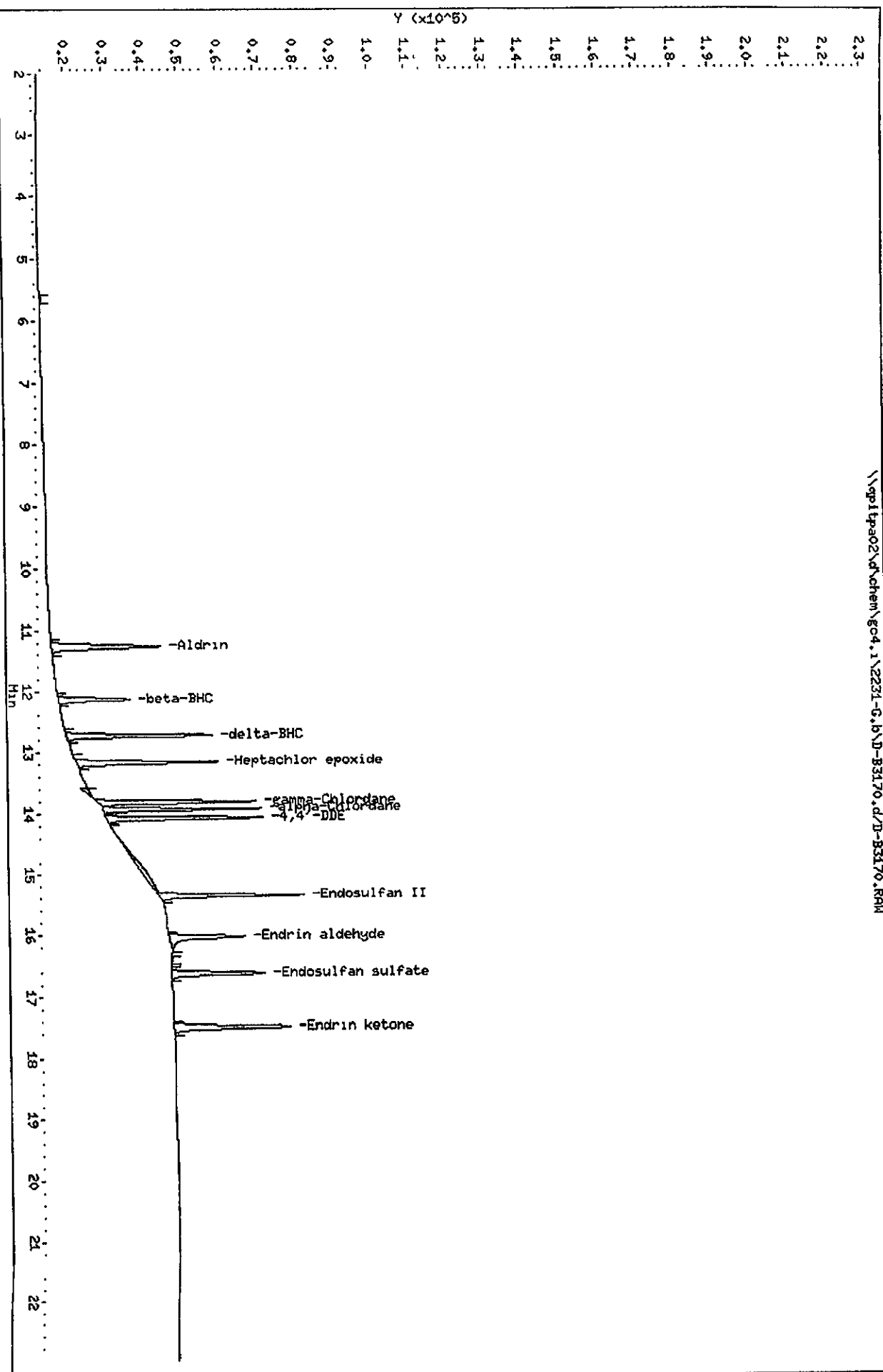
Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3170.d
 Lab Smp Id: MEDB
 Inj Date : 24-MAR-2001 17:22
 Operator : 010139 Inst ID: gc4.i
 Smp Info : MEDB,2231-G.b,,INDB.sub,,2,3
 Misc Info : 190-100-14
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-B3122.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDB.sub
 Target Version: 4.04
 Processing Host: PITPC044

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	--	-----	-----	-----	-----	-----
13 Aldrin	11.266	11.266	0.000	29080	0.02500	0.02489
10 beta-BHC	12.126	12.133	-0.007	19210	0.02500	0.02606
11 delta-BHC	12.726	12.740	-0.014	38342	0.02500	0.02742
17 Heptachlor epoxide	13.166	13.173	-0.007	37598	0.02500	0.02530
18 gamma-Chlordane	13.813	13.813	0.000	41702	0.02500	0.02515
19 alpha-Chlordane	13.926	13.926	0.000	41722	0.02500	0.02537
22 4,4'-DDE	14.073	14.080	-0.007	41356	0.02500	0.02600
31 Endosulfan II	15.353	15.353	0.000	37952	0.02500	0.02462
33 Endrin aldehyde	16.026	16.033	-0.007	19855	0.02500	0.02722
34 Endosulfan sulfate	16.620	16.626	-0.006	24141	0.02500	0.02969
37 Endrin ketone	17.493	17.500	-0.007	30451	0.02500	0.02678

Data File: \\xp1tpa02\chem\gc4.1\2231-G.b\D-B3170.d
 Date: 24-MAR-2001 17:22
 Client ID:
 Sample Info: HEDB,2231-G.b,INDB,sub,2,3
 Column phase: RTX-1701

Instrument: gc4.1
 Operator: 010139
 Column diameter: 0.53

\\xp1tpa02\chem\gc4.1\2231-G.b\D-B3170.d\D-B3170.RAW



679 462

PESTICIDE
QC DATA

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C220000 497
Method: SW846 8081A
Pesticides (8081A)

Sample WT/Vol: 1000 / mL Date Received: 03/21/01
Work Order: DXTLX1AA Date Extracted: 03/22/01
Dilution factor: 1 Date Analyzed: 03/24/01
Moisture %: NA

QC Batch: 1081497

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
72-54-8	4,4'-DDD	0.050	U
72-55-9	4,4'-DDE	0.050	U
50-29-3	4,4'-DDT	0.050	U
60-57-1	Dieldrin	0.050	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
72-20-8	Endrin	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

679 464

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3145.d
 Report Date: 26-Mar-2001 10:21

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3145.d
 Lab Smp Id: DXTLX1AA Client Smp ID: PBLK1497
 Inj Date : 24-MAR-2001 05:38
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXTLX1AA, 2231-G.b, , PEST.sub, , 3,
 Misc Info : 210184BLK
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-B3122.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC044

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 2 Tetrachloro-m-xylene	5.413	5.406	0.007	17330	0.01592	0.1592
6 alpha-BHC				Compound Not Detected.		
7 gamma-BHC (Lindane)				Compound Not Detected.		
10 beta-BHC				Compound Not Detected.		
8 Chlordane				Compound Not Detected.		
9 Heptachlor				Compound Not Detected.		
11 delta-BHC				Compound Not Detected.		
13 Aldrin				Compound Not Detected.		
17 Heptachlor epoxide				Compound Not Detected.		
18 gamma-Chlordane				Compound Not Detected.		
19 alpha-Chlordane				Compound Not Detected.		
20 Endosulfan I				Compound Not Detected.		
22 4,4'-DDE				Compound Not Detected.		
23 Dieldrin				Compound Not Detected.		
26 Endrin				Compound Not Detected.		

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3145.d
Report Date: 26-Mar-2001 10:21

679 465

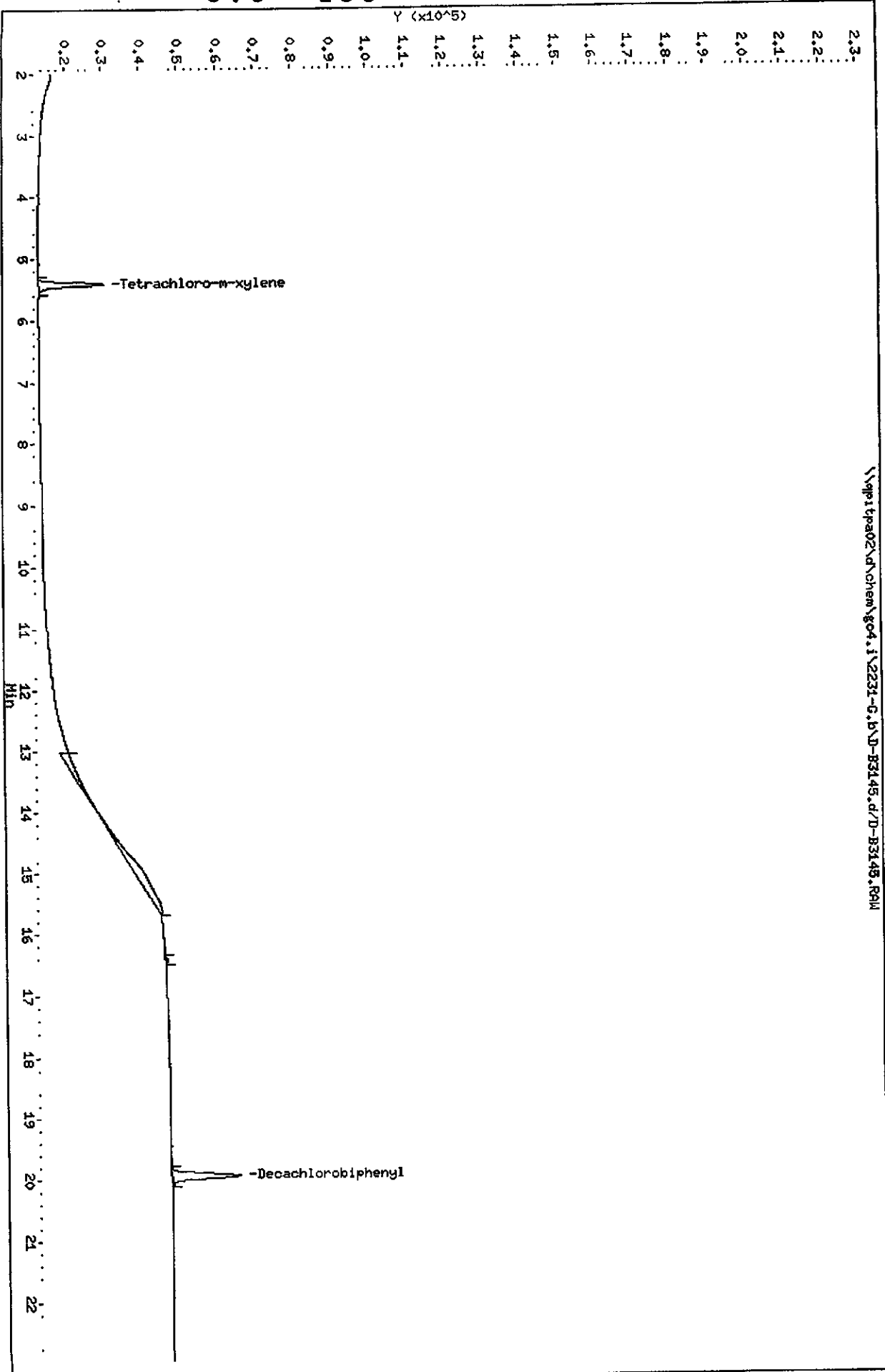
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
29 4,4'-DDD				Compound Not Detected.		
30 Toxaphene				Compound Not Detected		
31 Endosulfan II				Compound Not Detected.		
32 4,4'-DDT				Compound Not Detected.		
33 Endrin aldehyde				Compound Not Detected.		
34 Endosulfan sulfate				Compound Not Detected.		
35 Methoxychlor				Compound Not Detected.		
37 Endrin ketone				Compound Not Detected.		
\$ 38 Decachlorobiphenyl	19.933	19.933	0.000	17797	0.01870	0.1870

679 466

Data File: \\pittpa02\chem\gc4.i\2231-G.b\B3145.d
 Date: 24-MAR-2001 05:38
 Client ID: PBLK1497
 Sample Info: DXTLX149,2231-G.b,,PEST,sub,,3,
 Volume Injected (uL): 1.0
 Column phase: RTX-1701

Instrument: gc4.1
 Operator: 010139
 Column diameter: 0.53

\\pittpa02\chem\gc4.i\2231-G.b\B3145.d\B3145.RAW



Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3145.d
 Report Date: 26-Mar-2001 11:37

679 467

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3145.d
 Lab Smp Id: DXTLX1AA Client Smp ID: PBLK1497
 Inj Date : 24-MAR-2001 05:38
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXTLX1AA,2231-G.b,,PEST.sub,,3,
 Misc Info : 210184BLK
 Comment : 8081 analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081A.m
 Meth Date : 26-Mar-2001 11:30 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-A3122.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC044

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 2 Tetrachloro-m-xylene	5 153	5.146	0.007	26915	0.01581	0.1581
6 alpha-BHC				Compound Not Detected.		
7 gamma-BHC (Lindane)				Compound Not Detected.		
10 beta-BHC				Compound Not Detected.		
8 Chlordane				Compound Not Detected.		
9 Heptachlor				Compound Not Detected.		
11 delta-BHC				Compound Not Detected.		
13 Aldrin				Compound Not Detected.		
17 Heptachlor epoxide				Compound Not Detected.		
18 gamma-Chlordane				Compound Not Detected.		
19 alpha-Chlordane				Compound Not Detected.		
20 Endosulfan I				Compound Not Detected.		
22 4,4'-DDE				Compound Not Detected.		
23 Dieldrin				Compound Not Detected.		
26 Endrin				Compound Not Detected.		

679 468

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-A3145.d
Report Date: 26-Mar-2001 11:37

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
29 4,4'-DDD				Compound Not Detected.		
30 Toxaphene				Compound Not Detected.		
31 Endosulfan II				Compound Not Detected.		
32 4,4'-DDT				Compound Not Detected.		
33 Endrin aldehyde	15.693	15.646	0.047	1621	0.00106	0.01056(a)
34 Endosulfan sulfate				Compound Not Detected.		
35 Methoxychlor				Compound Not Detected.		
37 Endrin ketone				Compound Not Detected.		
\$ 38 Decachlorobiphenyl	21.000	21.000	0.000	19226	0.01901	0.1901

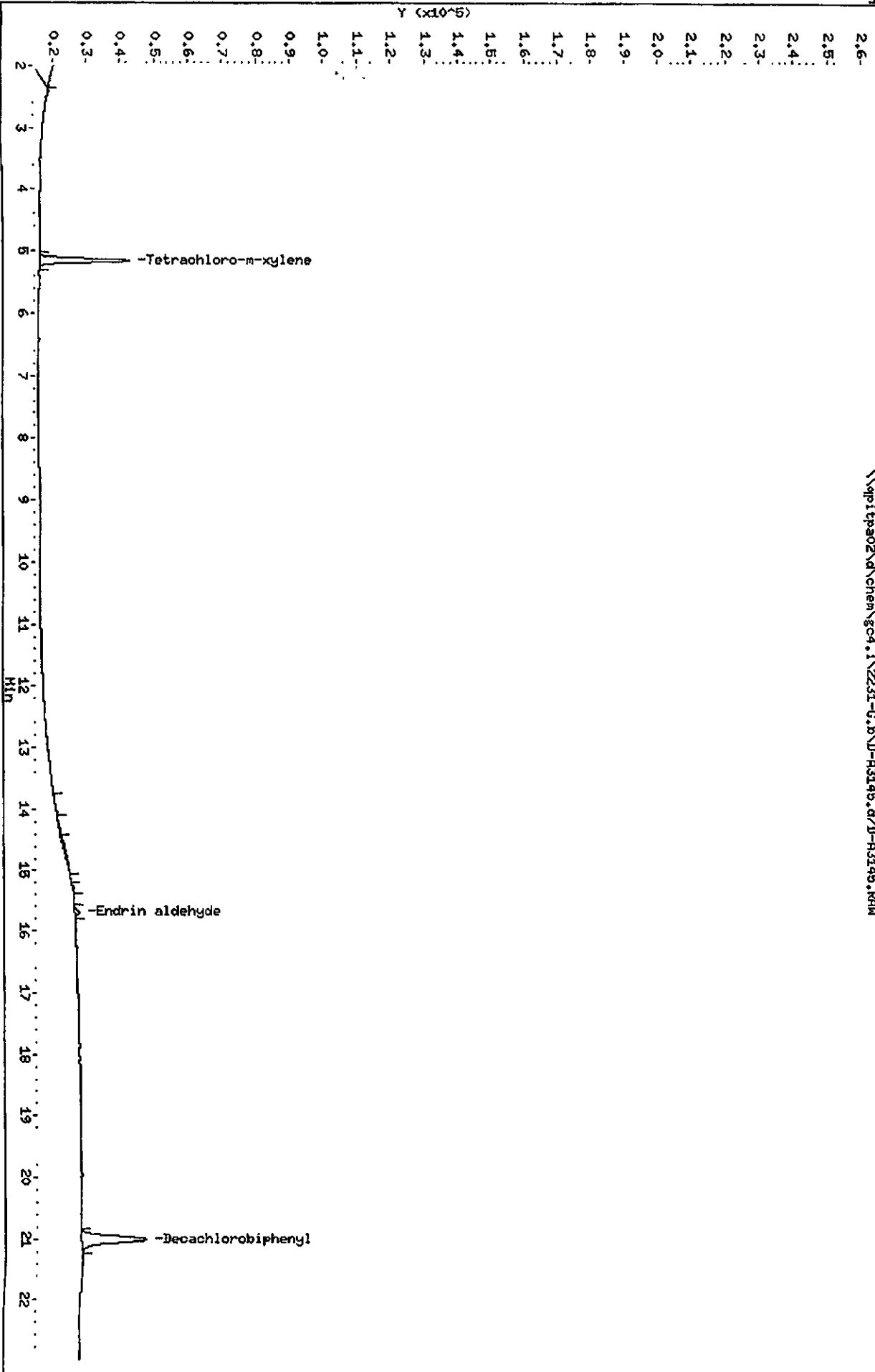
QC Flag Legend

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

Data File: \\ppitpa02\chem\gc4.1\2231-G.b\D-A3145.d
 Date: 24-MAR-2001 05:38
 Client ID: PBLK1497
 Sample Info: DXTLX149,2231-G.b,,PEST,s4b,,3,
 Volume Injected (uL): 1.0
 Column phase: RTX-50

Instrument: gc4.1
 Operator: 010139
 Column diameter: 0.53

\\ppitpa02\chem\gc4.1\2231-G.b\D-A3145.d\D-A3145.RAW



679 470

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C220000 497
Method: SW846 8081A
Pesticides (8081A)

Sample WT/Vol: 1000 / mL Date Received: 03/21/01
Work Order: DXTLX1AC Date Extracted: 03/22/01
Dilution factor: 1 Date Analyzed: 03/24/01
Moisture %: NA

QC Batch: 1081497

Client Sample Id: CHECK SAMPLE

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.212	
58-89-9	gamma-BHC (Lindane)	0.219	
50-29-3	4,4'-DDT	0.490	
60-57-1	Dieldrin	0.496	
72-20-8	Endrin	0.525	
76-44-8	Heptachlor	0.216	

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3149.d
 Lab Smp Id: DXTLX1AC Client Smp ID: LCS1497
 Inj Date : 24-MAR-2001 07:31
 Operator : 010139 Inst ID: gc4.i
 Smp Info : DXTLX1AC, 2231-G.b,, PEST.sub,, 3,
 Misc Info : 210184LCS
 Comment : 8081 Analysis
 Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
 Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
 Cal Date : 23-MAR-2001 18:52 Cal File: D-B3122.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC044

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 2 Tetrachloro-m-xylene	5.413	5.406	0.007	18373	0.01688	0.1688
6 alpha-BHC	Compound Not Detected.					
7 gamma-BHC (Lindane)	9.486	9.486	0.000	25909	0.02194	0.2194
10 beta-BHC	Compound Not Detected.					
8 Chlordane	Compound Not Detected.					
9 Heptachlor	10.306	10.306	0.000	26334	0.02155	0.2155
11 delta-BHC	Compound Not Detected					
13 Aldrin	11.266	11.266	0.000	24826	0.02125	0.2125
17 Heptachlor epoxide	Compound Not Detected					
18 gamma-Chlordane	Compound Not Detected.					
19 alpha-Chlordane	Compound Not Detected.					
20 Endosulfan I	Compound Not Detected					
22 4,4'-DDE	14.086	14.080	0.006	423	<0.0	0.002660(a)
23 Dieldrin	14.333	14.326	0.007	81229	0.04955	0.4955
26 Endrin	14.666	14.660	0.006	65678	0.05254	0.5254

679 472

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3149.d
Report Date: 26-Mar-2001 10:21

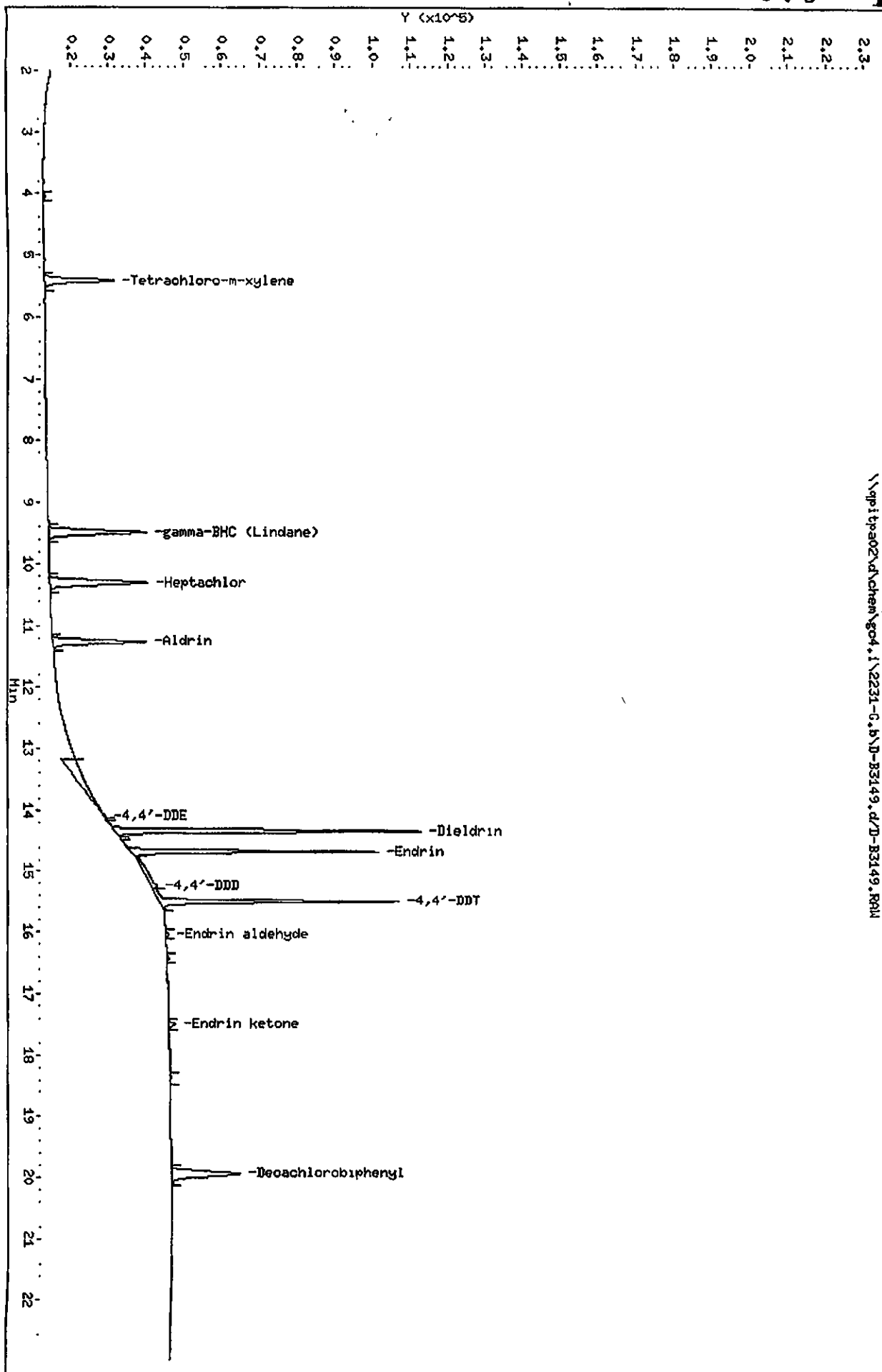
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
29 4,4'-DDD	15.233	15.226	0.007	1683	0.00140	0.01399 (a)
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	Compound Not Detected.					
32 4,4'-DDT	15.486	15.486	0.000	63526	0.04901	0.4901
33 Endrin aldehyde	16.033	16.033	0.000	754	0.00103	0.01034 (a)
34 Endosulfan sulfate	Compound Not Detected.					
35 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	17.500	17.500	0.000	1583	0.00139	0.01392 (a)
\$ 38 Decachlorobiphenyl	19.940	19.933	0.007	18364	0.01930	0.1930

QC Flag Legend

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

Data File: \\ppitpa02\chem\gc4.1\2231-G.b\D-B3149.d
Date : 24-MAR-2001 07:31
Client ID: LCS1497
Sample Info: DXTLXMAC,2231-G.b,PEST,sub,,3,
Volume Injected (uL): 1.0
Column phase: RTX-1701

Instrument: gc4.1
Operator: 0210139
Column diameter: 0.53



679 474

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C220000 497

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXTLX1AD

Date Extracted: 03/22/01

Dilution factor: 1

Date Analyzed: 03/24/01

Moisture %: NA

QC Batch: 1081497

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.175	
58-89-9	gamma-BHC (Lindane)	0.179	
50-29-3	4,4'-DDT	0.427	
60-57-1	Dieldrin	0.429	
72-20-8	Endrin	0.458	
76-44-8	Heptachlor	0.180	

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3150.d
Report Date: 26-Mar-2001 10:22

679 475

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3150.d
Lab Smp Id: DXTLX1AD Client Smp ID: LCD1497
Inj Date : 24-MAR-2001 07:59
Operator : 010139 Inst ID: gc4.i
Smp Info : DXTLX1AD, 2231-G.b, , PEST.sub, , 3,
Misc Info : 210184LCD
Comment : 8081 Analysis
Method : \\qpitpa02\d\chem\gc4.i\2231-G.b\8081B.m
Meth Date : 26-Mar-2001 10:11 matkol Quant Type: ESTD
Cal Date : 23-MAR-2001 18:52 Cal File: D-B3122.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC044

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 2 Tetrachloro-m-xylene	5.413	5.406	0.007	15618	0.01435	0.1435
6 alpha-BHC				Compound Not Detected.		
7 gamma-BHC (Lindane)	9.486	9.486	0.000	21157	0.01792	0.1792
10 beta-BHC				Compound Not Detected		
8 Chlordane				Compound Not Detected.		
9 Heptachlor	10.306	10.306	0.000	22002	0.01801	0.1801
11 delta-BHC				Compound Not Detected.		
13 Aldrin	11.266	11.266	0.000	20496	0.01755	0.1754
17 Heptachlor epoxide				Compound Not Detected.		
18 gamma-Chlordane				Compound Not Detected.		
19 alpha-Chlordane				Compound Not Detected.		
20 Endosulfan I				Compound Not Detected.		
22 4,4'-DDE	14.086	14.080	0.006	395	<0.0	0.002484(a)
23 Dieldrin	14.326	14.326	0.000	70349	0.04291	0.4291
26 Endrin	14.666	14.660	0.006	57260	0.04581	0.4581

Data File: \\qpitpa02\d\chem\gc4.i\2231-G.b\D-B3150.d
 Report Date: 26-Mar-2001 10:22

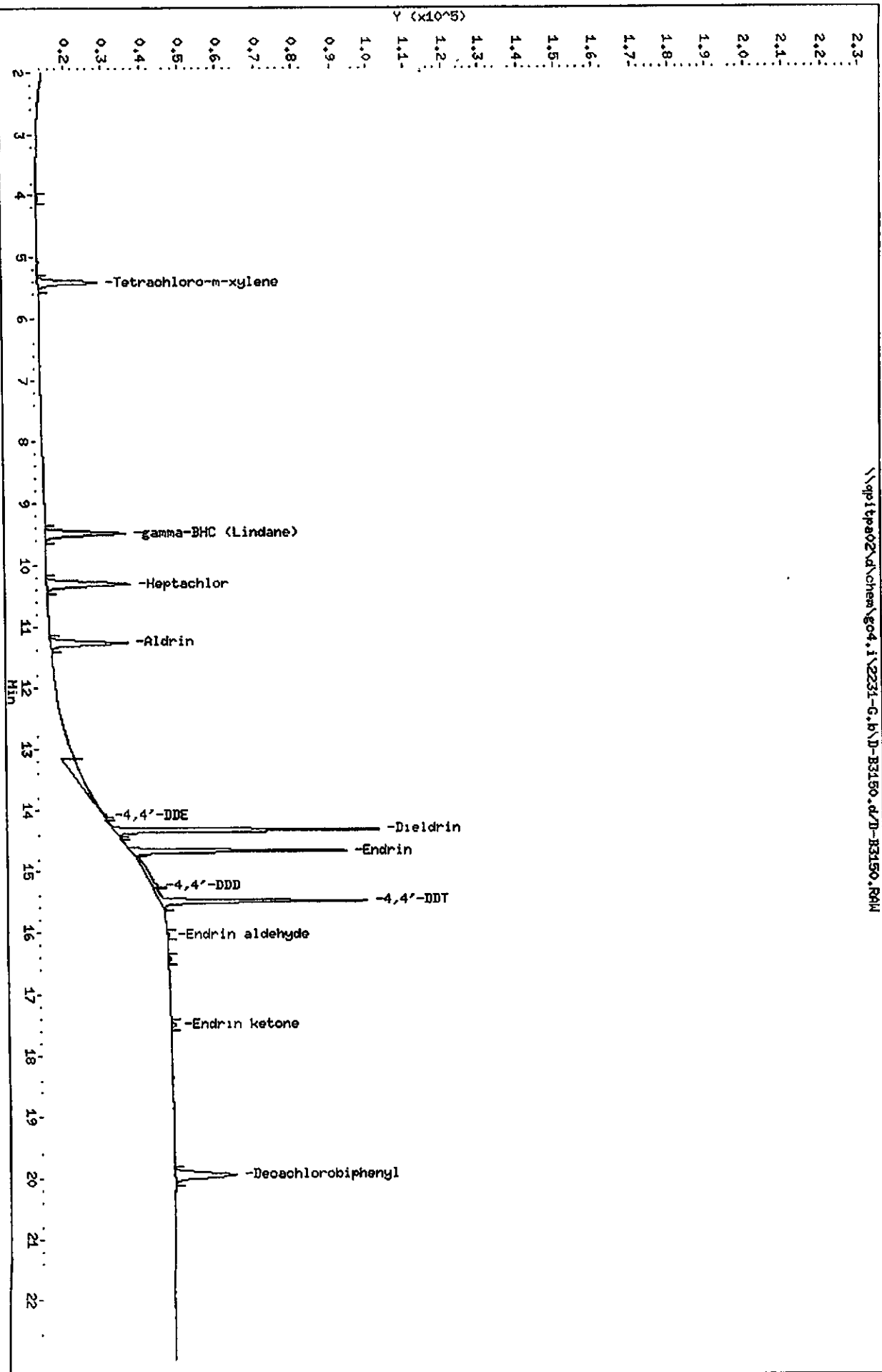
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
29 4,4'-DDD	15.233	15.226	0.007	1698	0.00141	0.01411 (a)
30 Toxaphene	Compound Not Detected.					
31 Endosulfan II	Compound Not Detected.					
32 4,4'-DDT	15.486	15.486	0.000	55365	0.04272	0.4272
33 Endrin aldehyde	16.033	16.033	0.000	666	<0.0	0.009129 (a)
34 Endosulfan sulfate	Compound Not Detected.					
35 Methoxychlor	Compound Not Detected.					
37 Endrin ketone	17.493	17.500	-0.007	1377	0.00121	0.01211 (a)
\$ 38 Decachlorobiphenyl	19.940	19.933	0.007	16356	0.01719	0.1719

QC Flag Legend

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

Data File: \\qpitpa02\chem\gc04.1\2231-G.b\D-B3150.d
Date: 24-MAR-2001 07:59
Client ID: LCD1497
Sample Info: DXTLX1AD, 2231-G.b, PEST.sub, 3,
Volume Injected (uL): 1.0
Column phase: RTX-1701

Instrument: gc04.1
Operator: 010139
Column diameter: 0.53



679 478

PESTICIDE
MISCELLANEOUS

STL - Pittsburgh

Separatory Funnel Extraction Worksheet

Logbook ID: OP50

Start Date: 3-22-01 Date Completed: 3-22-01 Parameter: 90814-5082 Method: 35101 Solvent: MeOH Solvent Lot: T05E08 Solvent Mfg: Baker Cleanup Method: NA

Lot Number	Sample ID	Client ID	Sample Volume (mL)	Final Volume (mL)	pH	Surrogate #	Sur Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
1. PIC210184	BLE	NA	1000	10.0	5	190-136.5	1.0	NA	NA	NA
2.	LOS	2-act			5				0.5	
3.	LOS	2-act			5					
4.	LOS	2-act			5					
5.	LOS	2-act			5					
6.	001				5					
7. PIC210167	031				5					
8.	032				5					
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
21.										
22.										
23.										

P. Gundersen
3-22-01

Sodium Sulfate Mfg/Lot Number: Baker V02599 Reviewed by: B. A. P. Date: 3-22-01

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\2231-G.SEQ
Created by : DE11/02/98 on : 3/26/01 08:34
Edited by : LM03/23/01 on : 3/26/01 08:49
Description : QUANTERRA PGH 8081 RUN ON GC#4 RTx-50/RTx-1701
REVIEWED BY:

679 480

6

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 66
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions - Channel A												
Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm factor
1	Std Check	EVALB, 2231-G.b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal: Replace	MEDTOX, 2231-G.b	190-98-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Cal: Replace	MEDCHLOR, 2231-G	190-102-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Cal: Replace	LOWA, 2231-G.b,,	190-100-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal: Replace	MLOWA, 2231-G b,	190-100-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal: Replace	MEDA, 2231-G.b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal: Replace	MHIGHA, 2231-G.b	190-100-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal: Replace	HIGHA, 2231-G.b,	190-100-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal: Replace	LOWB, 2231-G b,,	190-100-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal: Replace	MLOWB, 2231-G.b,	190-100-13		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal: Replace	MEDB, 2231-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal: Replace	MHIGHB, 2231-G.b	190-101-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal: Replace	HIGHB, 2231-G.b,	190-101-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Std Check	2ND A, 2231-G.b,	190-101-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Std Check	2ND B, 2231-G.b,	190-101-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Std Check	EVALB, 2231-G.b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DXLX1AA, 2231-G	190151-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DXLK61AA, 2231-G	190151-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	~~DXLK91AA, 2231-G~~	~~190151-3~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DXNG21AA, 2231-G	190151-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	~~DXNG21AC, 2231-G~~	~~190151-LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	~~DXNG21AD, 2231-G~~	~~190151-LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DXLLC1AA, 2231-G	190151-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DXLLG1AA, 2231-G	190151-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DXLLG1AQ, 2231-G	190151-5S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DXLLG1AR, 2231-G	190151-5D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DXLLJ1AA, 2231-G	190151-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	DXNAO1AA, 2231-G	190151-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	~~DXNAO1AC, 2231-G~~	~~190151-LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DXLLM1AA, 2231-G	190151-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DXLLT1AA, 2231-G	190151-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DXLLX1AA, 2231-G	190151-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DXNCP1AA, 2231-G	190151-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	~~DXNCP1AC, 2231-G~~	~~190151-LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	~~DXNCP1AD, 2231-G~~	~~190151-LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DXTLX1AA, 2231-G	210184BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Std Check	MEDA, 2231-G b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Std Check	MEDB, 2231-G b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Std Check	EVALB, 2231-G.b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	~~DXTLX1AC, 2231-G~~	~~210184-LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	~~DXTLX1AD, 2231-G~~	~~210184-LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DXPK31AD, 2231-G	210184001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DXLLC1AA, 2231-G	MDLSOILBLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DXLLC1AA, 2231-G	MDLINDA1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DXLLC1AA, 2231-G	MDLINDA2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DXLLC1AA, 2231-G	MDLINDA3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DXLLC1AA, 2231-G	MDLINDA4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	DXLLC1AA, 2231-G	MDLINDA5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Sample	DXLLC1AA, 2231-G	MDLINDA6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DXLLC1AA, 2231-G	MDLINDA7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DXLLC1AA, 2231-G	MDLINDA8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DXLLC1AA, 2231-G	MDLINDA9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DXLLC1AA, 2231-G	MDLINDB1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DXLLC1AA, 2231-G	MDLINDB2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	DXLLC1AA, 2231-G	MDLINDB3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DXLLC1AA, 2231-G	MDLINDB4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DXLLC1AA, 2231-G	MDLINDB5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DXLLC1AA, 2231-G	MDLINDB6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DXLLC1AA, 2231-G	MDLINDB7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

60	Std Check	MEDA, 2231-G.b.,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Std Check	MEDB, 2231-G.b.,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Std Check	EVALB, 2231-G.b.,	190-102-10	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Sample	DXLLC1AA, 2231-G	MDLINDB8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Sample	DXLLC1AA, 2231-G	MDLINDB9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Std Check	MEDA, 2231-G.b.,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Std Check	MEDB, 2231-G.b.,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel A

Row	Site	Rack	Vial	Inst 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	GEN4A	122190A	EVAL	D-A3110	D-A3110		D-A3110	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A3111	D-A3111		D-A3111	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A3112	D-A3112		D-A3112	N	MED	N	LPT1:,LP
4	-	1	4	GEN4C	GEN4A	122190A	INDA	D-A3113	D-A3113		D-A3113	N	LOW	N	LPT1:
5	-	1	5	GEN4C	GEN4A	122190A	INDA	D-A3114	D-A3114		D-A3114	N	MLOW	N	LPT1:
6	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3115	D-A3115		D-A3115	N	MLOW	N	LPT1:
7	-	1	7	GEN4C	GEN4A	122190A	INDA	D-A3116	D-A3116		D-A3116	N	MLOW	N	LPT1:
8	-	1	8	GEN4C	GEN4A	122190A	INDA	D-A3117	D-A3117		D-A3117	N	MLOW	N	LPT1:
9	-	1	9	GEN4C	GEN4A	122190A	INDA	D-A3118	D-A3118		D-A3118	N	LOW	N	LPT1:
10	-	1	10	GEN4C	GEN4A	122190A	INDA	D-A3119	D-A3119		D-A3119	N	MLOW	N	LPT1:
11	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3120	D-A3120		D-A3120	N	MLOW	N	LPT1:
12	-	1	12	GEN4C	GEN4A	122190A	INDA	D-A3121	D-A3121		D-A3121	N	MLOW	N	LPT1:
13	-	1	13	GEN4C	GEN4A	122190A	INDA	D-A3122	D-A3122		D-A3122	N	MLOW	N	LPT1:
14	-	1	23	GEN4C	GEN4A	122190A	INDA	D-A3123	D-A3123		D-A3123	-	-	-	LPT1:
15	-	1	24	GEN4C	GEN4A	122190A	INDA	D-A3124	D-A3124		D-A3124	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3125	D-A3125		D-A3125	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3126	D-A3126		D-A3126	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3127	D-A3127		D-A3127	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3128	D-A3128		D-A3128	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3129	D-A3129		D-A3129	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3130	D-A3130		D-A3130	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3131	D-A3131		D-A3131	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3132	D-A3132		D-A3132	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3133	D-A3133		D-A3133	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3134	D-A3134		D-A3134	-	-	-	LPT1:
26	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3135	D-A3135		D-A3135	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3136	D-A3136		D-A3136	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3137	D-A3137		D-A3137	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3138	D-A3138		D-A3138	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3139	D-A3139		D-A3139	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3140	D-A3140		D-A3140	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3141	D-A3141		D-A3141	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3142	D-A3142		D-A3142	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3143	D-A3143		D-A3143	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3144	D-A3144		D-A3144	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3145	D-A3145		D-A3145	-	-	-	LPT1:
37	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3146	D-A3146		D-A3146	-	-	-	LPT1:
38	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3147	D-A3147		D-A3147	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3148	D-A3148		D-A3148	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3149	D-A3149		D-A3149	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3150	D-A3150		D-A3150	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3151	D-A3151		D-A3151	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3152	D-A3152		D-A3152	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3153	D-A3153		D-A3153	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3154	D-A3154		D-A3154	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3155	D-A3155		D-A3155	-	-	-	LPT1:
47	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3156	D-A3156		D-A3156	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3157	D-A3157		D-A3157	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3158	D-A3158		D-A3158	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3159	D-A3159		D-A3159	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3160	D-A3160		D-A3160	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3161	D-A3161		D-A3161	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3162	D-A3162		D-A3162	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3163	D-A3163		D-A3163	-	-	-	LPT1:
55	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3164	D-A3164		D-A3164	-	-	-	LPT1:
56	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3165	D-A3165		D-A3165	-	-	-	LPT1:
57	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3166	D-A3166		D-A3166	-	-	-	LPT1:
58	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3167	D-A3167		D-A3167	-	-	-	LPT1:
59	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3168	D-A3168		D-A3168	-	-	-	LPT1:
60	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3169	D-A3169		D-A3169	-	-	-	LPT1:
61	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3170	D-A3170		D-A3170	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3171	D-A3171		D-A3171	-	-	-	LPT1:
63	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3172	D-A3172		D-A3172	-	-	-	LPT1:
64	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3173	D-A3173		D-A3173	-	-	-	LPT1:
65	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3174	D-A3174		D-A3174	-	-	-	LPT1:
66	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3175	D-A3175		D-A3175	-	-	-	LPT1:

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\2231-G.SEQ
 Created by : DE11/02/98 on : 3/26/01 08:34
 Edited by : LM03/23/01 on : 3/26/01 08:49
 Description : QUANTERRA PGH 8081 RUN ON GC#4 RTx-50/RTx-1701
 REVIEWED BY:

679 482

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 66
 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, 2231-G b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal Replace	MEDTOX, 2231-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, 2231-G	190-102-9		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Cal:Replace	LOWA, 2231-G.b,,	190-100-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MLOWA, 2231-G.b,,	190-100-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	MEDA, 2231-G.b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal:Replace	MHIGHA, 2231-G.b	190-100-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	HIGHA, 2231-G.b,,	190-100-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	LOWB, 2231-G.b,,	190-100-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	MLOWB, 2231-G.b,,	190-100-13		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	MEDB, 2231-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	MHIGHB, 2231-G.b	190-101-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal Replace	HIGHB, 2231-G b,	190-101-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Std Check	2ND A, 2231-G.b,	190-101-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Std Check	2ND B, 2231-G.b,	190-101-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Std Check	EVALB, 2231-G b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DXLKX1AA, 2231-G	190151-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DXLK61AA, 2231-G	190151-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DXLK91AA, 2231-G	190151-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DXNG21AA, 2231-G	190151-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DXNG21AC, 2231-G	190151-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DXNG21AD, 2231-G	190151-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DXLLC1AA, 2231-G	190151-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DXLLG1AA, 2231-G	190151-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DXLLG1AQ, 2231-G	190151-5S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DXLLG1AR, 2231-G	190151-5D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DXLLJ1AA, 2231-G	190151-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	DXNA01AA, 2231-G	190151-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DXNA01AC, 2231-G	190151-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DXLLM1AE, 2231-G	190151-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DXLLT1AE, 2231-G	190151-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DXLLX1AE, 2231-G	190151-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DXNCP1AA, 2231-G	190151-BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DXNCP1AC, 2231-G	190151-LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DXNCP1AD, 2231-G	190151-LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DXTLX1AA, 2231-G	210184BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Std Check	MEDA, 2231-G b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Std Check	MEDB, 2231-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Std Check	EVALB, 2231-G.b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DXTLX1AC, 2231-G	210184LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DXTLX1AD, 2231-G	210184LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DXPK31AD, 2231-G	210184001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DXLLC1AA, 2231-G	MDLSOILBLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DXLLC1AA, 2231-G	MDLINDA1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DXLLC1AA, 2231-G	MDLINDA2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DXLLC1AA, 2231-G	MDLINDA3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DXLLC1AA, 2231-G	MDLINDA4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	DXLLC1AA, 2231-G	MDLINDA5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Sample	DXLLC1AA, 2231-G	MDLINDA6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DXLLC1AA, 2231-G	MDLINDA7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DXLLC1AA, 2231-G	MDLINDA8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DXLLC1AA, 2231-G	MDLINDA9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DXLLC1AA, 2231-G	MDLINDB1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DXLLC1AA, 2231-G	MDLINDB2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	DXLLC1AA, 2231-G	MDLINDB3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DXLLC1AA, 2231-G	MDLINDB4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DXLLC1AA, 2231-G	MDLINDB5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DXLLC1AA, 2231-G	MDLINDB6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DXLLC1AA, 2231-G	MDLINDB7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

60	Std Check	MEDA, 2231-G.b.,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Std Check	MEDB, 2231-G.b.,	190-100-14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Std Check	EVALB, 2231-G.b.,	190-102-10	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Sample	DXLLC1AA, 2231-G	MDLINDB8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Sample	DXLLC1AA, 2231-G	MDLINDB8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Std Check	MEDA, 2231-G.b.,	190-100-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
66	Std Check	MEDB, 2231-G.b.,	190-100-14	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-B3110	D-B3110		D-B3110	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B3111	D-B3111		D-B3111	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B3112	D-B3112		D-B3112	N	MED	N	LPT1:,LP
4	-	1	4	GEN4C	GEN4B	122190A	INDA	D-B3113	D-B3113		D-B3113	N	LOW	N	LPT1:
5	-	1	5	GEN4C	GEN4B	122190A	INDA	D-B3114	D-B3114		D-B3114	N	MLOW	N	LPT1:
6	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3115	D-B3115		D-B3115	N	MLOW	N	LPT1:
7	-	1	7	GEN4C	GEN4B	122190A	INDA	D-B3116	D-B3116		D-B3116	N	MLOW	N	LPT1:
8	-	1	8	GEN4C	GEN4B	122190A	INDA	D-B3117	D-B3117		D-B3117	N	MLOW	N	LPT1:
9	-	1	9	GEN4C	GEN4B	122190A	INDA	D-B3118	D-B3118		D-B3118	N	LOW	N	LPT1:
10	-	1	10	GEN4C	GEN4B	122190A	INDA	D-B3119	D-B3119		D-B3119	N	MLOW	N	LPT1:
11	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3120	D-B3120		D-B3120	N	MLOW	N	LPT1:
12	-	1	12	GEN4C	GEN4B	122190A	INDA	D-B3121	D-B3121		D-B3121	N	MLOW	N	LPT1:
13	-	1	13	GEN4C	GEN4B	122190A	INDA	D-B3122	D-B3122		D-B3122	N	MLOW	N	LPT1:
14	-	1	23	GEN4C	GEN4B	122190A	INDA	D-B3123	D-B3123		D-B3123	-	-	-	LPT1:
15	-	1	24	GEN4C	GEN4B	122190A	INDA	D-B3124	D-B3124		D-B3124	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3125	D-B3125		D-B3125	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3126	D-B3126		D-B3126	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3127	D-B3127		D-B3127	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3128	D-B3128		D-B3128	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3129	D-B3129		D-B3129	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3130	D-B3130		D-B3130	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3131	D-B3131		D-B3131	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3132	D-B3132		D-B3132	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3133	D-B3133		D-B3133	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3134	D-B3134		D-B3134	-	-	-	LPT1:
26	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3135	D-B3135		D-B3135	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3136	D-B3136		D-B3136	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3137	D-B3137		D-B3137	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3138	D-B3138		D-B3138	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3139	D-B3139		D-B3139	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3140	D-B3140		D-B3140	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3141	D-B3141		D-B3141	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3142	D-B3142		D-B3142	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3143	D-B3143		D-B3143	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3144	D-B3144		D-B3144	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3145	D-B3145		D-B3145	-	-	-	LPT1:
37	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3146	D-B3146		D-B3146	-	-	-	LPT1:
38	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3147	D-B3147		D-B3147	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3148	D-B3148		D-B3148	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3149	D-B3149		D-B3149	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3150	D-B3150		D-B3150	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3151	D-B3151		D-B3151	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3152	D-B3152		D-B3152	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3153	D-B3153		D-B3153	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3154	D-B3154		D-B3154	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3155	D-B3155		D-B3155	-	-	-	LPT1:
47	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3156	D-B3156		D-B3156	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3157	D-B3157		D-B3157	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3158	D-B3158		D-B3158	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3159	D-B3159		D-B3159	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3160	D-B3160		D-B3160	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3161	D-B3161		D-B3161	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3162	D-B3162		D-B3162	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3163	D-B3163		D-B3163	-	-	-	LPT1:
55	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3164	D-B3164		D-B3164	-	-	-	LPT1:
56	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3165	D-B3165		D-B3165	-	-	-	LPT1:
57	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3166	D-B3166		D-B3166	-	-	-	LPT1:
58	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3167	D-B3167		D-B3167	-	-	-	LPT1:
59	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3168	D-B3168		D-B3168	-	-	-	LPT1:
60	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3169	D-B3169		D-B3169	-	-	-	LPT1:
61	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3170	D-B3170		D-B3170	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3171	D-B3171		D-B3171	-	-	-	LPT1:
63	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3172	D-B3172		D-B3172	-	-	-	LPT1:
64	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3173	D-B3173		D-B3173	-	-	-	LPT1:
65	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3174	D-B3174		D-B3174	-	-	-	LPT1:
66	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3175	D-B3175		D-B3175	-	-	-	LPT1:

679 484

PSR024 3/22/01 13:30:50 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: YUSHINSC

METHOD. QJ Pesticides (8081A)

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SEF	MATRIX DESCRIPTION	QTY	QTY
		CNTR#								RCVD	REQD
14A, CLP1	DXPK3-1-AD	— — —	322374	399411	I-09-QJ	C1C210184	001		WATER	0	13 1

Used 1 liter per sample, and
empty bottle was thrown
away!

P. Yushinski
3-22-01

RELINQUISHED BY

RECEIVED BY

DATE/TIME

P. Yushinski
P. Yushinski

P. Yushinski
P. Yushinski

3-22-01 1540
3-22-01 1800

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

PCB DATA

679 486

PCB
QC SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C210184

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/24-B/1079/IDW/006	556*	86	01
02	METHOD BLK. DXTL21AA	84	98	00
03	LCS DXTL21AC	85	98	00
04	LCSD DXTL21AD	77	99	00

SURROGATES

SRG01 = Tetrachloro-m-xylene

SRG02 = Decachlorobiphenyl

QC LIMITS

(45-120)

(24-128)

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

FORM II

679 488

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPTT

SDG No:

Lot #: C1C220000

WO #: DXTL21AC

BATCH: 1081500

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	8.52	85	61- 118	
Aroclor 1260	10.0	9.25	93	61- 124	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C220000

WO #: DXTL21AD

BATCH: 1081500

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.85	78	61 - 118	
Aroclor 1260	10.0	9.50	95	61 - 124	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limitsCOMMENTS:

679 490

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXTL21AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: H-A20804.

Lot Number: C1C210184

Matrix: WATER

Extraction Method:

Date Extracted: 03/22/01

Date Analyzed(1): 03/24/01

Date Analyzed(2): N/A

Time Analyzed(1): 00:56

Time Analyzed(2): N/A

Instrument ID(1): M/N

Instrument ID(2): N/A

GC Column(1): N/A

ID: N/A

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/24-B/1079/IDW/006	DXP31AE	03/24/01	N/A
02	CHECK SAMPLE	DXTL21AC C	03/24/01	N/A
03	DUPLICATE CHECK	DXTL21AD L	03/24/01	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

679 491

PCB
SAMPLE DATA

679 492

UXB INTERNATIONAL

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

Matrix: (soil/water) WATER
Method: SW846 8082
PCBs (8082)

Lab Sample ID: C1C210184 001

Sample WT/Vol: 1000 / mL
Work Order: DXPK31AE
Dilution factor: 1

Date Received: 03/21/01
Date Extracted: 03/22/01
Date Analyzed: 03/24/01

QC Batch: 1081500

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	1.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U

679 493

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20802.D
Lab Smp Id: DXPK31AE Client Smp ID: DF/24-B/1079/IDW/00
Inj Date : 24-MAR-2001 00:17
Operator : 010139 Inst ID: gc8.i
Smp Info : DXPK31AE,2191.b
Misc Info : 210184001
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 26-Mar-2001 08:39 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 43
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PITPC061

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ng)	(ug/L)	TARGET RANGE	RATIO
--	-----	-----	-----	-----	-----	-----
\$ 1	Tetrachloro-m-xylene		CAS # 877-09-8			
1 664	1 680	(-0 016)	10059994	1.11139	11 114	(RM)

8 Aroclor-1221			CAS #. 11104-28-2			

Operator disabled compound identification

14 Aroclor-1232	CAS # 11141-16-5

Operator disabled compound identification

679 494

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20802.D
 Report Date: 26-Mar-2001 09:43

Page 2

		CONCENTRATIONS					
RT	EXP RT	DLT RT	ON-COL	FINAL	RESPONSE (ng)	(ug/L)	TARGET RANGE
---	-----	-----	-----	-----	-----	-----	-----
15							CAS #. 53469-21-9
Operator disabled compound identification							
20							CAS # 12674-11-2
Operator disabled compound identification.							
21							CAS #: 12672-29-6
Operator disabled compound identification.							
33							CAS #. 11097-69-1
Operator disabled compound identification.							
\$ 34							CAS #: 2051-24-3
10 604	10.603	(0 001)	54365	0 01725	0.17248		
36							CAS #: 11096-82-5
Peaks not detected for Quant or Qual signal(s)							

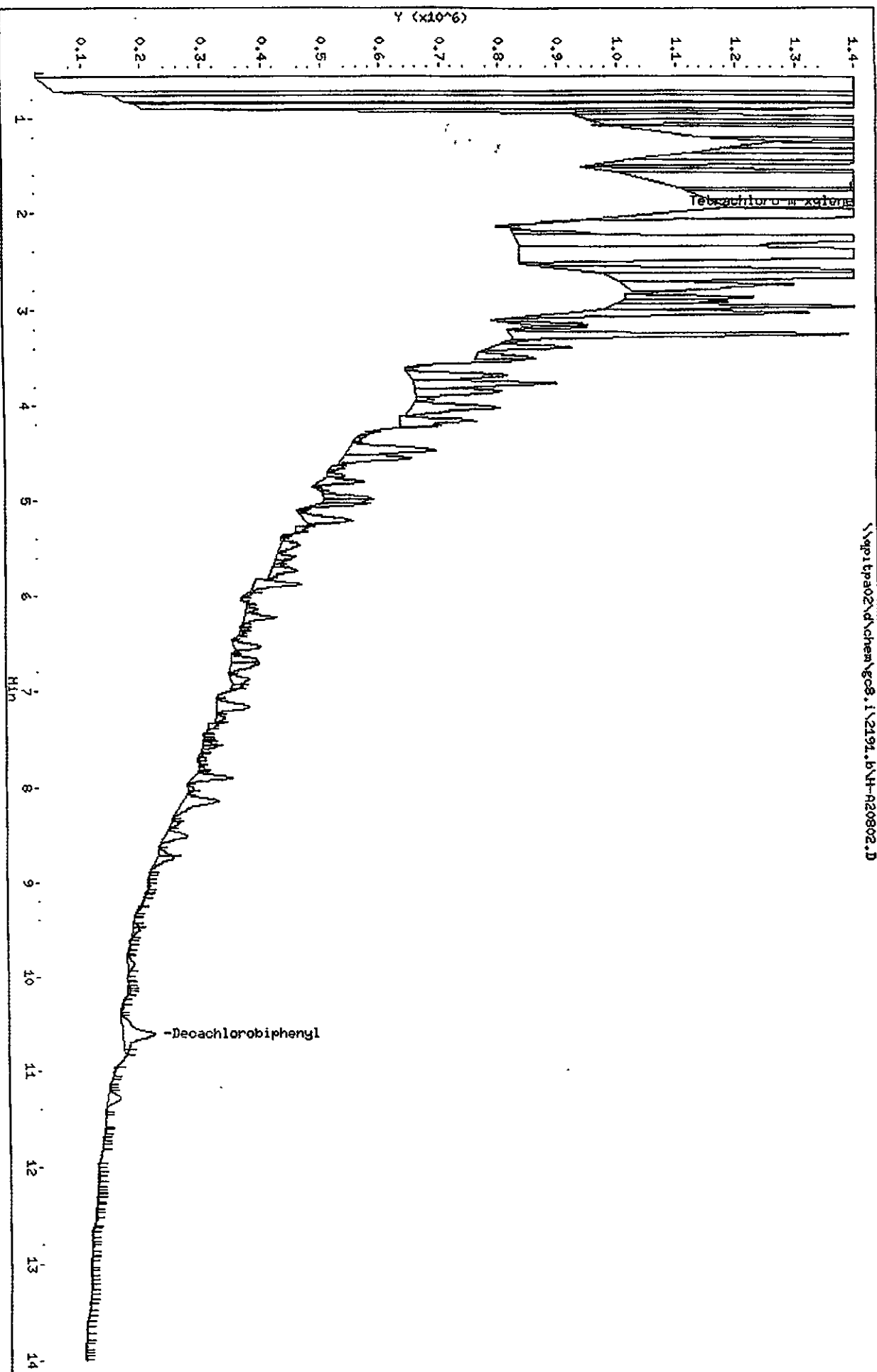
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

Data File: \\sp1tpa02\chem\gc8.1\2191.b\H-A20802.D
Date: 24-MAR-2001 00:17
Client ID: DF/24-R/1079/TDM/00
Sample Info: DPK31AE/2191.b
Volume Injected (uL): 1.0
Column phase: DB608

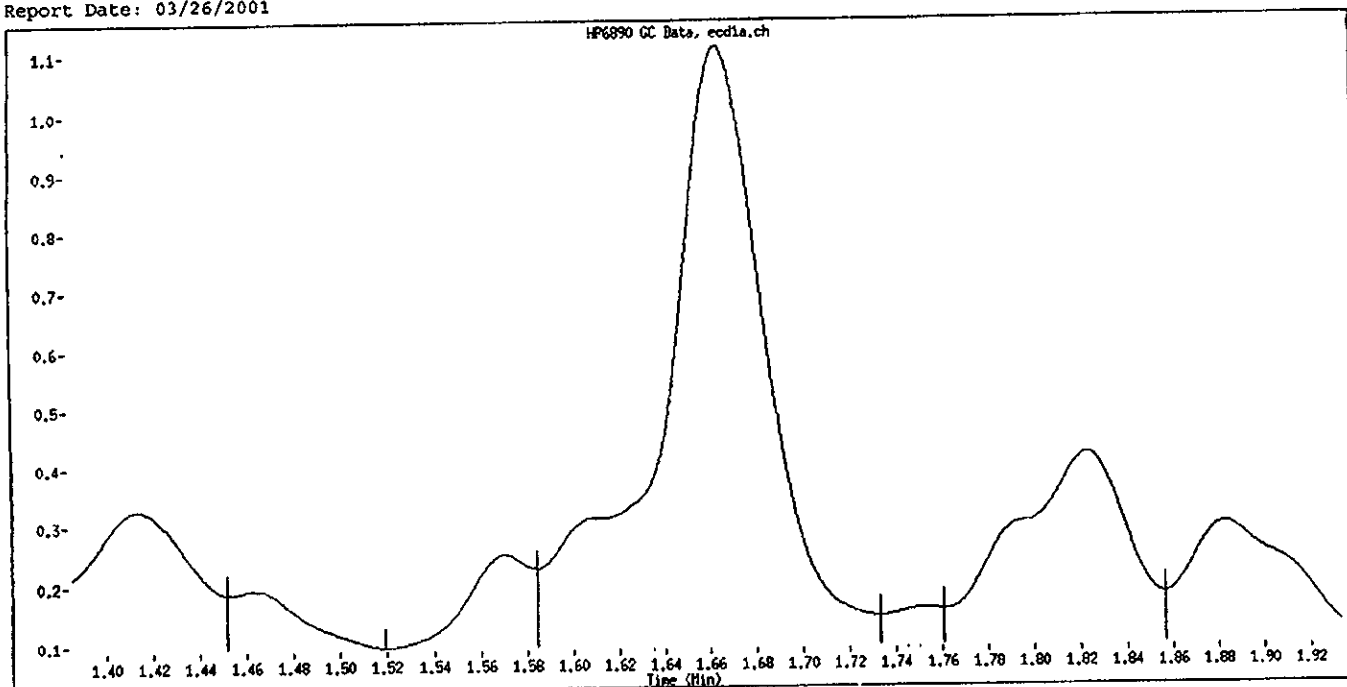
Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\sp1tpa02\chem\gc8.1\2191.b\H-A20802.D

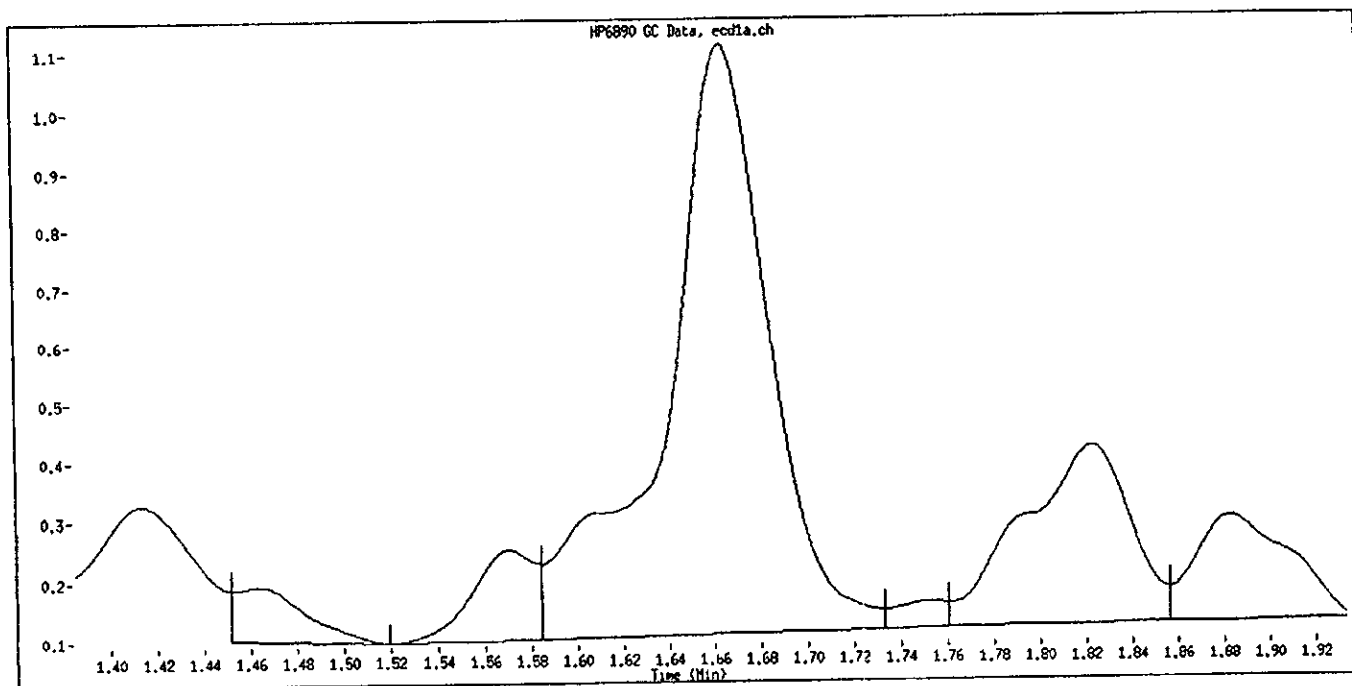


Data File Name H-A20802 D
Inj Date and Time. 24-MAR-2001 00 17
Instrument ID. gc8 1
Client ID DF/24-B/1079/IDW/00
Compound Name: Tetrachloro-m-xylene
CAS # 877-09-8
Report Date: 03/26/2001

679 496



Original Integration



Manual Integration

Manually Integrated By: EppingerD
Manual Integration Reason: Unknown

679 497

PCB
CALIBRATION DATA

679 498

62
HP68908m
DB608

Report Date : 19-Mar-2001 14:45

Page 1

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAR-2001 11:24
 End Cal Date : 19-MAR-2001 14:21
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Cal Date : 19-Mar-2001 14:44 eppingerd
 Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20614.D
 Level 2: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20615.D
 Level 3: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20616.D
 Level 4: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20617.D
 Level 5: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20618.D
 Level 6: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20619.D

Compound	0.00500 Level 1	0.01000 Level 2	0.02500 Level 3	0.05000 Level 4	0.10000 Level 5	0.20000 Level 6	RRF	% RSD	
51 Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
8 Aroclor-1221(1)	+++++	+++++	55116	+++++	+++++	+++++	55116	0.000	
(2)	+++++	+++++	79658	+++++	+++++	+++++	79658	0.000	
(3)	+++++	+++++	151900	+++++	+++++	+++++	151900	0.000	
14 Aroclor-1232(1)	+++++	+++++	106444	+++++	+++++	+++++	106444	0.000	
(2)	+++++	+++++	99772	+++++	+++++	+++++	99772	0.000	
(3)	+++++	+++++	143164	+++++	+++++	+++++	143164	0.000	
(4)	+++++	+++++	95088	+++++	+++++	+++++	95088	0.000	
15 Aroclor-1242(1)	+++++	+++++	291768	+++++	+++++	+++++	291768	0.000	
(2)	+++++	+++++	180686	+++++	+++++	+++++	180686	0.000	
(3)	+++++	+++++	133246	+++++	+++++	+++++	133246	0.000	
(4)	+++++	+++++	131412	+++++	+++++	+++++	131412	0.000	
(5)	+++++	+++++	113098	+++++	+++++	+++++	113098	0.000	
20 Aroclor-1016(1)	138320	134380	129528	122079	112943	110917	124695	9.056	
(2)	282180	261235	253654	234506	221306	212153	244172	10.785	
(3)	415770	392260	389352	370473	357229	348356	378907	6.593	
(4)	261040	244620	238266	230994	220860	217326	235518	6.868	
(5)	170610	159770	157918	153922	146316	141072	154935	6.741	
21 Aroclor-1248(1)	+++++	+++++	197744	+++++	+++++	+++++	197744	0.000	
(2)	+++++	+++++	186186	+++++	+++++	+++++	186186	0.000	
(3)	+++++	+++++	211326	+++++	+++++	+++++	211326	0.000	
(4)	+++++	+++++	195260	+++++	+++++	+++++	195260	0.000	
(5)	+++++	+++++	191214	+++++	+++++	+++++	191214	0.000	

Report Date : 19-Mar-2001 14:45

6E
HP6890SM
DB608

Page 2

679 499

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAR-2001 11:24
 End Cal Date : 19-MAR-2001 14:21
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Cal Date : 19-Mar-2001 14:44 eppingerd
 Curve Type : Average

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	0.20000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
33 Aroclor-1254(1)	++++	++++	210340	++++	++++	++++	210340	0.000
(2)	++++	++++	253406	++++	++++	++++	253406	0.000
(3)	++++	++++	373826	++++	++++	++++	373826	0.000
(4)	++++	++++	258010	++++	++++	++++	258010	0.000
(5)	++++	++++	234858	++++	++++	++++	234858	0.000
36 Aroclor-1260(1)	347460	320460	323638	306386	299195	293305	315074	6.272
(2)	426850	406660	410572	401031	385721	385568	402734	3.919
(3)	329070	315425	323524	320377	315881	310161	319073	2.099
(4)	711650	704665	735886	740772	715779	731718	723412	2.026
(5)	313130	303850	313294	316578	310717	319233	312800	1.694
\$ 1 Tetrachloro-m-xylene	9566600	9198300	9331840	8956340	8734830	8522630	9051757	4.292
\$ 34 Decachlorobiphenyl	3185000	3068100	3228240	3119680	3154280	3156695	3151999	1.738

679 500

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i Injection Date: 23-MAR-2001 12:03
Lab File ID: H-A20765.D Init. Cal. Date(s): 19-MAR-2001 19-MAR-2001
Analysis Type: Init. Cal. Times: 11:24 14:21
Lab Sample ID: M1660 Quant Type: ESTD
Method: \\gpitpa02\d\chem\gc8.i\2191.b\PCBA.m

COMPOUND	RRF	RPO	MIN	MAX
20 Aroclor-1016(1)	124695	137146	0.010	15.0
(2)	244172	262970	0.010	15.0
(3)	378907	407458	0.010	15.0
(4)	235518	249372	0.010	15.0
(5)	154935	164886	0.010	15.0
\$ 1 Tetrachloro-m-xylene	9051757	9703080	0.000	15.0
\$ 34 Decachlorobiphenyl	3151999	3330280	0.010	15.0
36 Aroclor-1260(1)	315074	330946	0.010	15.0
(2)	402734	427038	0.010	15.0
(3)	319073	337416	0.010	15.0
(4)	723412	752138	0.010	15.0
(5)	312800	332872	0.010	15.0

STL-Pittsburgh

679 501

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i Injection Date: 23-MAR-2001 18:59
Lab File ID: H-A20786.D Init. Cal. Date(s): 19-MAR-2001 19-MAR-2001
Analysis Type: Init. Cal. Times: 11:24 14:21
Lab Sample ID: M1660 Quant Type: ESTD
Method: \\gpitpa02\d\chem\gc8.i\2191.b\PCBA.m

COMPOUND	RRF	RFO	MIN	MAX
20 Aroclor-1016(1)	124695	140984	0 010	13 1 15 0
(2)	244172	274826	0 010	12.6 15.0
(3)	378907	426840	0 010	12 7 15 0
(4)	235518	262558	0 010	11.5 15 0
(5)	154935	173484	0.010	12.0 15 0
\$ 1 Tetrachloro-m-xylene	9051757	10017960	0 000	10 7 15 0
\$ 34 Decachlorobiphenyl	3151999	3542560	0 010	12 4 15.0
36 Aroclor-1260(1)	315074	351860	0.010	11 7 15 0
(2)	402734	445682	0 010	10 7 15 0
(3)	319073	359216	0 010	12 6 15 0
(4)	723412	816222	0 010	12 8 15 0
(5)	312800	351112	0 010	12 2 15.0

679 502

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i Injection Date: 24-MAR-2001 01:56
Lab File ID: H-A20807.D Init. Cal. Date(s): 19-MAR-2001 19-MAR-2001
Analysis Type: Init. Cal. Times: 11:24 14:21
Lab Sample ID: M1660 Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m

COMPOUND	RRF	RFO	MIN	%D	MAX
20 Aroclor-1016(1)	124695	147260	0.010	18.1	15.0<-
(2)	244172	278372	0.010	14.0	15.0
(3)	378907	439262	0.010	15.9	15.0<-
(4)	235518	268072	0.010	13.8	15.0
(5)	154935	177052	0.010	14.3	15.0
\$ 1 Tetrachloro-m-xylene	9051757	10351320	0.000	14.4	15.0
\$ 34 Decachlorobiphenyl	3151999	3651520	0.010	15.8	15.0<-
36 Aroclor-1260(1)	315074	354202	0.010	12.4	15.0
(2)	402734	460934	0.010	14.5	15.0
(3)	319073	365658	0.010	14.6	15.0
(4)	723417	829504	0.010	14.7	15.0
(5)	312800	367990	0.010	17.6	15.0<

As 1507.0

8D
PESTICIDE ANALYTICAL SEQUENCE

679 503

Lab Name: Contract: SDG No.: C1C210184
Lab Code: Case No.: SAS No.:
GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 03/19/01 03/19/01
Instrument ID: GC8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
TCX: 1.68			DCB: 10.60		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	M2154	03/19/01	1124	1.68	10.59
02	M1232	03/19/01	1143		
03	M1242	03/19/01	1203		
04	M1248	03/19/01	1223		
05	L1660	03/19/01	1243	1.68	10.60
06	ML1660	03/19/01	1302	1.68	10.60
07	M1660	03/19/01	1322	1.68	10.60
08	MH1660	03/19/01	1342	1.68	10.60
09	H1660	03/19/01	1402	1.68	10.60
10	XH1660	03/19/01	1421	1.68	10.60
11	2M2154	03/19/01	1441	1.68	
12	2M1232	03/19/01	1501		
13	2M1242	03/19/01	1521		
14	2M1248	03/19/01	1541		
15	2M1660	03/19/01	1600		10.60
16	M2154	03/23/01	1043	1.68	10.61
17	M1232	03/23/01	1103		
18	M1242	03/23/01	1123		
19	M1248	03/23/01	1143		
20	M1660	03/23/01	1203	1.68	10.61
21	M1660	03/23/01	1859	1.68	10.61
22	DF/24-B/1079 DXPK31AE	03/24/01	0017	1.66	10.60
23	PBLK1500 DXTL21AA	03/24/01	0056	1.68	10.61
24	LCS1500 DXTL21AC	03/24/01	0116	1.68	10.61
25	LCD1500 DXTL21AD	03/24/01	0136	1.68	10.61
26	M1660	03/24/01	0156	1.68	10.61
27					
28					
29					
30					
31					
32					

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

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

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20610.D
 Lab Smp Id: M2154
 Inj Date : 19-MAR-2001 11:24
 Operator : 010139
 Smp Info : M2154,2131.b
 Misc Info : 190-111-7
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:40 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 11:24 Cal File: H-A20610.D
 Als bottle: 2 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 2154.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS								
		CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE	RATIO
=====			=====	=====	=====	=====	=====	=====
8 Aroclor-1221					CAS # - 11104-28-2			
1.464	1.464	(0.000)	27558	0 50000	0 50000	0 00-	0.00	0 00
1 987	1 987	(0 000)	39829	0.50000	0 50000	116 57-	156.57	0 00
2 186	2 186	(0 000)	75950	0 50000	0.50000	66 04-	106.04	0.00
Average of Peak Amounts =					0.5			

\$ 1 Tetrachloro-m-xylene					CAS #. 877-09-8			
1.677	1.680	(-0.003)	202113	0 02500	0 025000			

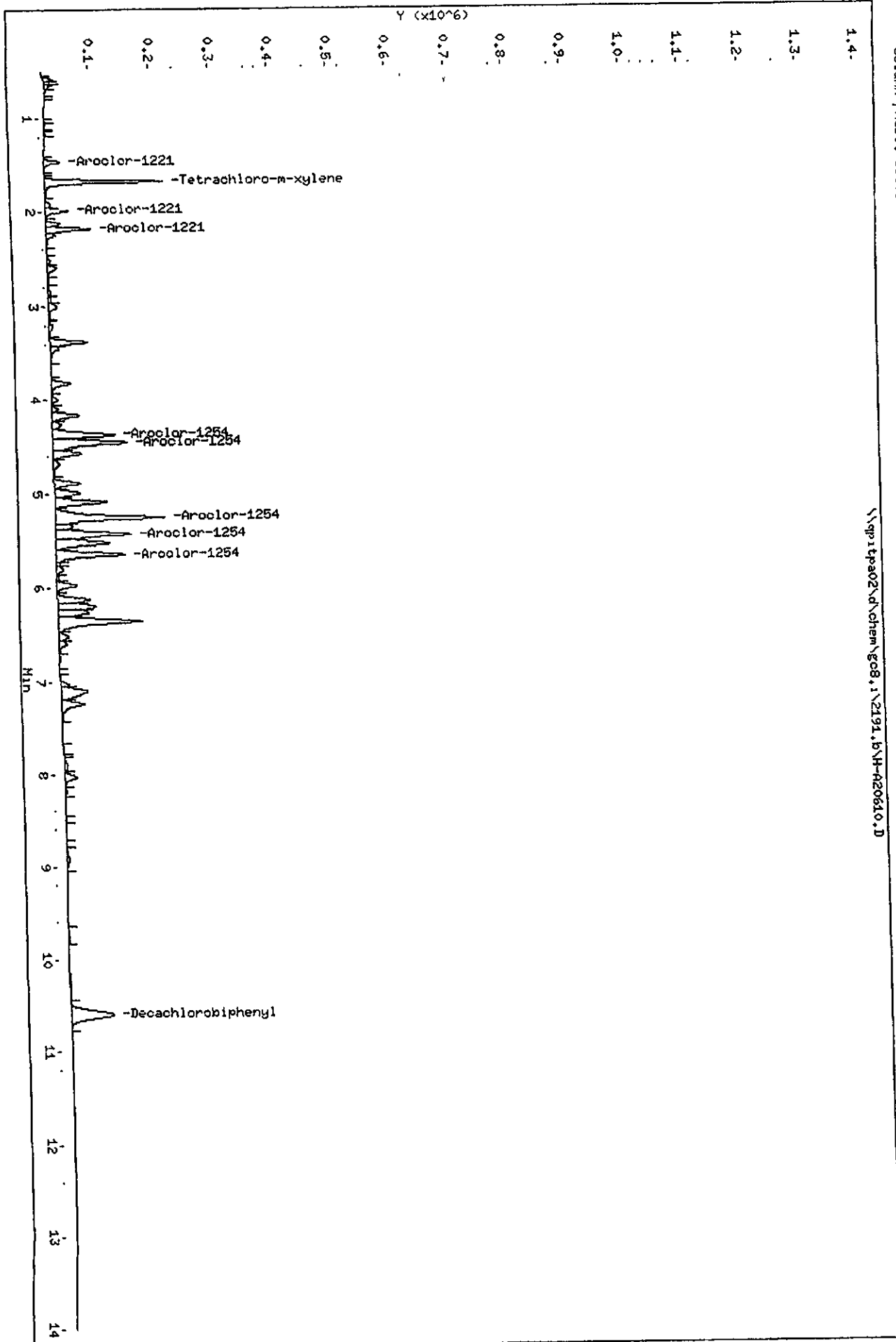
\$ 34 Decachlorobiphenyl					CAS # 2051-24-3			
10 592	10.603	(-0 011)	73100	0 02500	0.025000			

33 Aroclor-1254					CAS #: 11097-69-1			
4 374	4 374	(0 000)	105170	0 50000	0 50000	0 00-	0.00	0 00
4.451	4 451	(0 000)	126703	0.50000	0 50000	92 23-	132.23	0 00
5 250	5 250	(0 000)	186913	0 50000	0.50000	77 40-	117.40	0 00
5 429	5 429	(0 000)	129005	0.50000	0 50000	51 09-	91 09	0 00
5.646	5 646	(0 000)	117429	0 50000	0 50000	65 01-	105.01	0 00
Average of Peak Amounts =					0 5			

Data File: \\pittpa02\chem\gc08.1\2191.b\H-A20610.D
 Date: 19-MAR-2001 11:24
 Client ID:
 Sample Info: H2154,2131.b
 Column phase: DB608

Instrument: gc08.1
 Operator: 010139
 Column diameter: 0.53

\\pittpa02\chem\gc08.1\2191.b\H-A20610.D



STL-Pittsburgh

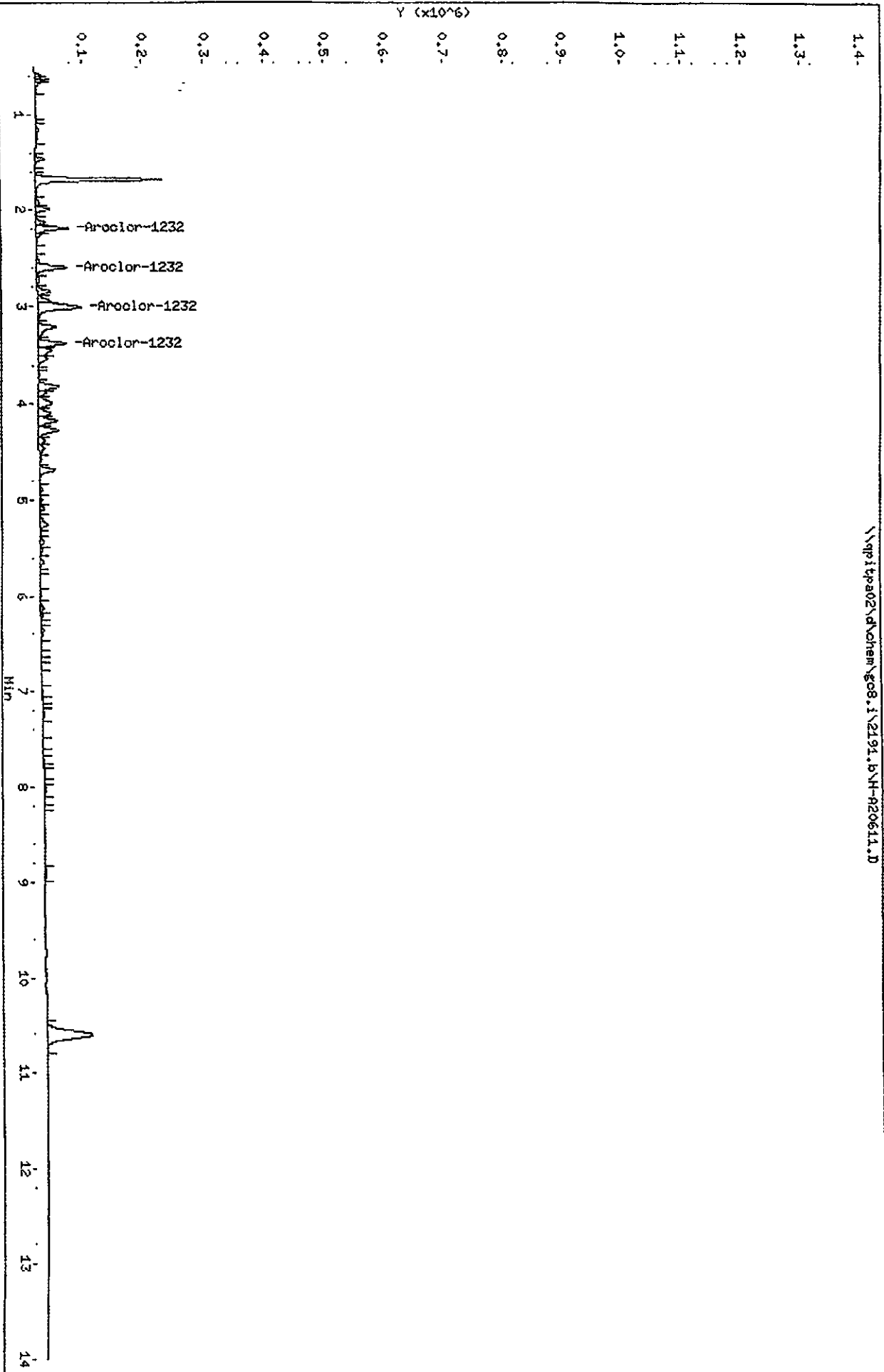
Data file : \\gpitpa02\d\chem\gc8.i\2191.b\H-A20611.D
 Lab Smp Id: M1232
 Inj Date : 19-MAR-2001 11:43
 Operator : 010139 Inst ID: gc8.i
 Smp Info : M1232,2131.b
 Misc Info : 190-111-8
 Comment : 8082 PCB ANALYSIS
 Method : \\gpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:41 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 11:43 Cal File: H-A20611.D
 Als bottle: 3 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1232.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS						
		CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ng)	(ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
14 Aroclor-1232			CAS #: 11141-16-5			
2 188	2 188	(0 000)	53222	0 50000	0 50000 0.00- 0.00	0 00
2 600	2 600	(0 000)	49886	0 50000	0.50000 146 26- 186 26	0.00
3 008	3 008	(0.000)	71582	0 50000	0.50000 65.99- 105.99	0 00
3 377	3.377	(0 000)	47544	0 50000	0.50000 74 18- 114.18	0.00
Average of Peak Amounts =			0 5			

Data File: \\pp1tpa02\chem\gc8.1\2191.b\H-A20611.D
Date: 19-MAR-2001 11:43
Client ID:
Sample Info: H1232,2131.b
Column phase: DB608

Instrument: gc8.i
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc8.1\2191.b\H-A20611.D



Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20612.D
Report Date: 19-Mar-2001 14:41

Page 1

679 508

STL-Pittsburgh

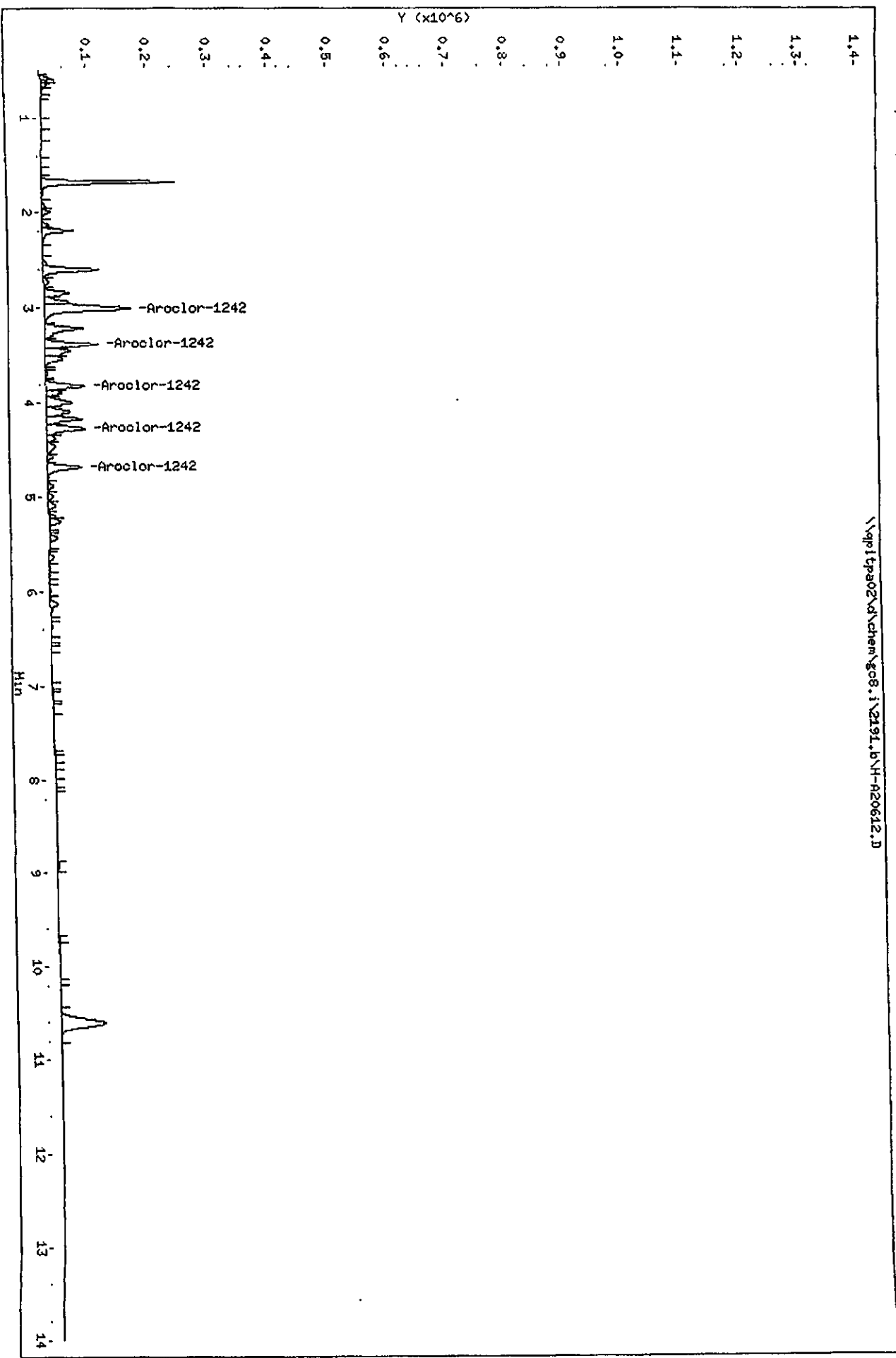
Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20612.D
Lab Smp Id: M1242
Inj Date : 19-MAR-2001 12:03
Operator : 010139
Smp Info : M1242,2131.b
Misc Info : 190-111-9
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 14:41 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 12:03 Cal File: H-A20612.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1242.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

AMOUNTS							
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
***	*****	*****	*****	*****	*****	*****	
15 Aroclor-1242			CAS # 53469-21-9				
3 010	3 010	(0 000)	145884 0 50000	0 50000	0 00- 0.00	0 00	
3 380	3 380	(0 000)	90343 0.50000	0 50000	310 13- 350 13	0.00	
3 818	3 818	(0 000)	66623 0 50000	0.50000	749.70- 789 70	0 00	
4 269	4 269	(0 000)	65706 0 50000	0.50000	512 48- 552.48	0.00	
4 682	4 682	(0 000)	56549 0.50000	0.50000	314.30- 354.30	0.00	
Average of Peak Amounts =				0 5			

Data File: \\vp1tpa02\chem\gc8.i\2191.b\H-A20612.D
 Date : 19-MAR-2004 12:03
 Client ID:
 Sample Info: H1242,2131.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

\\vp1tpa02\chem\gc8.i\2191.b\H-A20612.D



STL-Pittsburgh

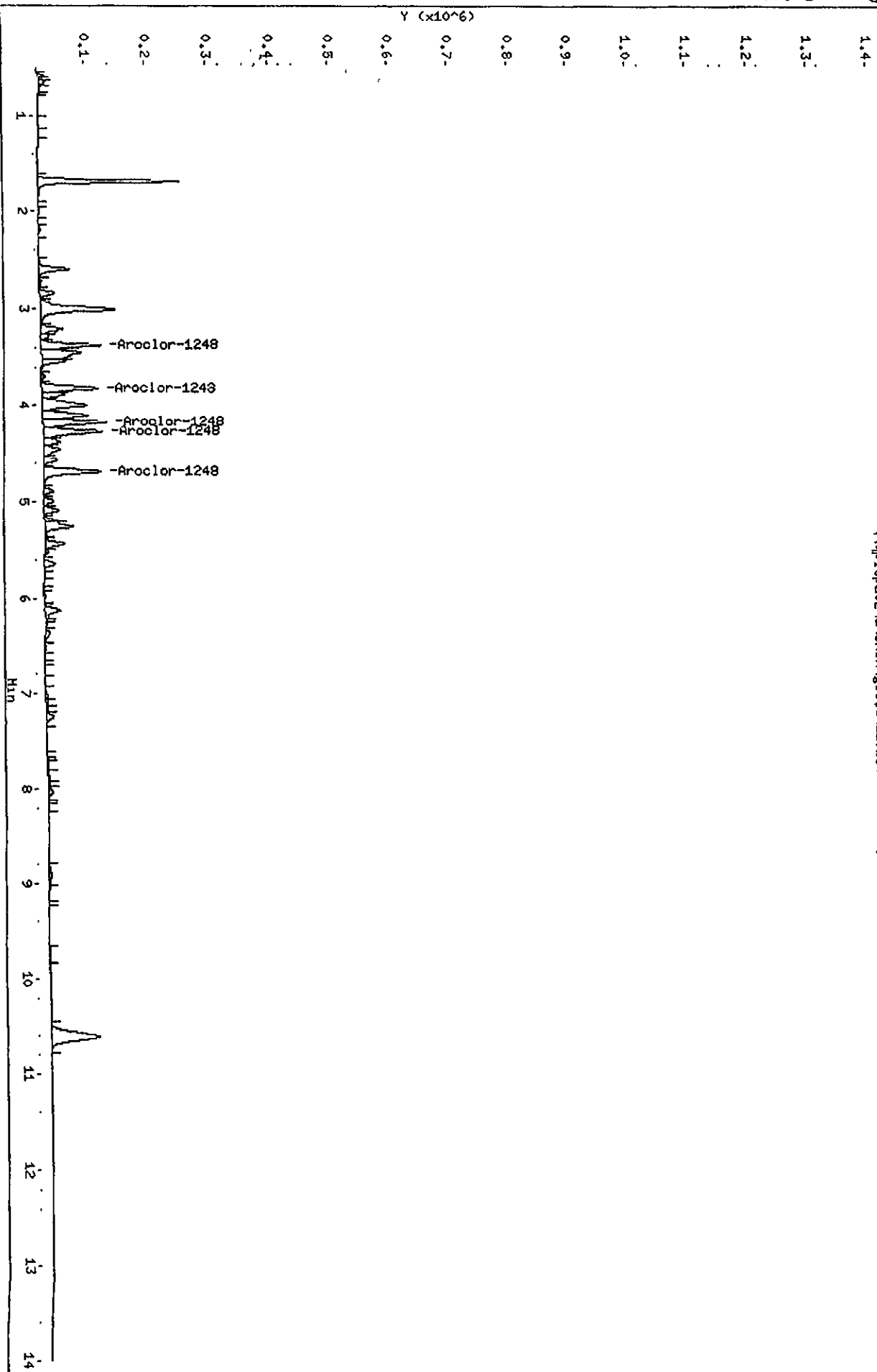
Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20613.D
 Lab Smp Id: M1248
 Inj Date : 19-MAR-2001 12:23
 Operator : 010139 Inst ID: gc8.i
 Smp Info : M1248,2131.b
 Misc Info : 190-111-10
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:41 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 12:23 Cal File: H-A20613.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1248.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS									
			CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (ng)		(ng)	TARGET RANGE		RATIO	
==	=====	=====	=====	=====	=====	=====		=====	
21 Aroclor-1248					CAS #	12672-29-6			
3 380	3 380	(0.000)	98872	0.50000	0 50000	0 00-	0 00	0 00	
3 819	3 819	(0 000)	93093	0 50000	0 50000	114.57-	154.57	0.00	
4 169	4 169	(0 000)	105663	0 50000	0.50000	63 67-	103.67	0.00	
4 270	4.270	(0 000)	97630	0.50000	0.50000	43.86-	83 86	0.00	
4.685	4 685	(0.000)	95607	0.50000	0 50000	128 08-	168.08	0.00	
Average of Peak Amounts =					0 5				

Date File: \\pp1tpa02\chem\gc8.i\2191.b\H-820613.D
 Date : 13-MAR-2004 12:23
 Client ID:
 Sample Info: H1248,2131.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\gc8.i\2191.b\H-820613.D



Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20614.D
Report Date: 19-Mar-2001 14:42

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20614.D
Lab Smp Id: L1660
Inj Date : 19-MAR-2001 12:43
Operator : 010139
Smp Info : L1660,2191.b
Misc Info : 190-111-11
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 14:42 eppingerd
Cal Date : 19-MAR-2001 12:43
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20614.D
Calibration Sample, Level: 1
Compound Sublist: 1660.sub
Sample Matrix: None

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
20 Aroclor-1016			CAS #: 12674-11-2			
2 189	2 190	(-0 001)	13832 0 10000	0 10000	0 00- 0 00	0 00
2 602	2 602	(0 000)	28218 0 10000	0 10000	80 00- 120 00	0 00
3 010	3 009	(0 001)	41577 0 10000	0.10000	203 51- 243.51	0.00
3 380	3 380	(0 000)	26104 0 10000	0 10000	203 51- 243 51	0 00
3 821	3 820	(0 001)	17061 0.10000	0 10000	297.56- 337.56	0 00
Average of Peak Amounts =			0.1			
-----			-----			
\$ 1 Tetrachloro-m-xylene			CAS #: 877-09-8			
1 680	1.680	(0 000)	47833 0.00500	0 0054198		
-----			-----			
5 34 Decachlorobiphenyl			CAS #: 2051-24-3			
10 601	10 603	(-0 002)	15925 0 00500	0 0052136		
-----			-----			
36 Aroclor-1260			CAS #: 11096-82-5			
5.524	5 525	(-0.001)	34746 0 10000	0.10000	0 00- 0.00	0.00
5 649	5 650	(-0.001)	42685 0 10000	0 10000	95.86- 135.86	0.00
6 372	6 366	(0 006)	32907 0.10000	0 10000	116 91- 156 91	0.00
7 242	7 240	(0 002)	71165 0 10000	0 10000	120.00- 160.00	0.00
8 032	8 031	(0 001)	31313 0 10000	0.10000	108 33- 148.33	0 00
Average of Peak Amounts =			0 1			
-----			-----			

Data File: \\qpltpa02\chem\gc8.1\2191.b\H-A20614.D

Date: 19-MAR-2001 12:43

Client ID:

Sample Info: L1660, 2191.b

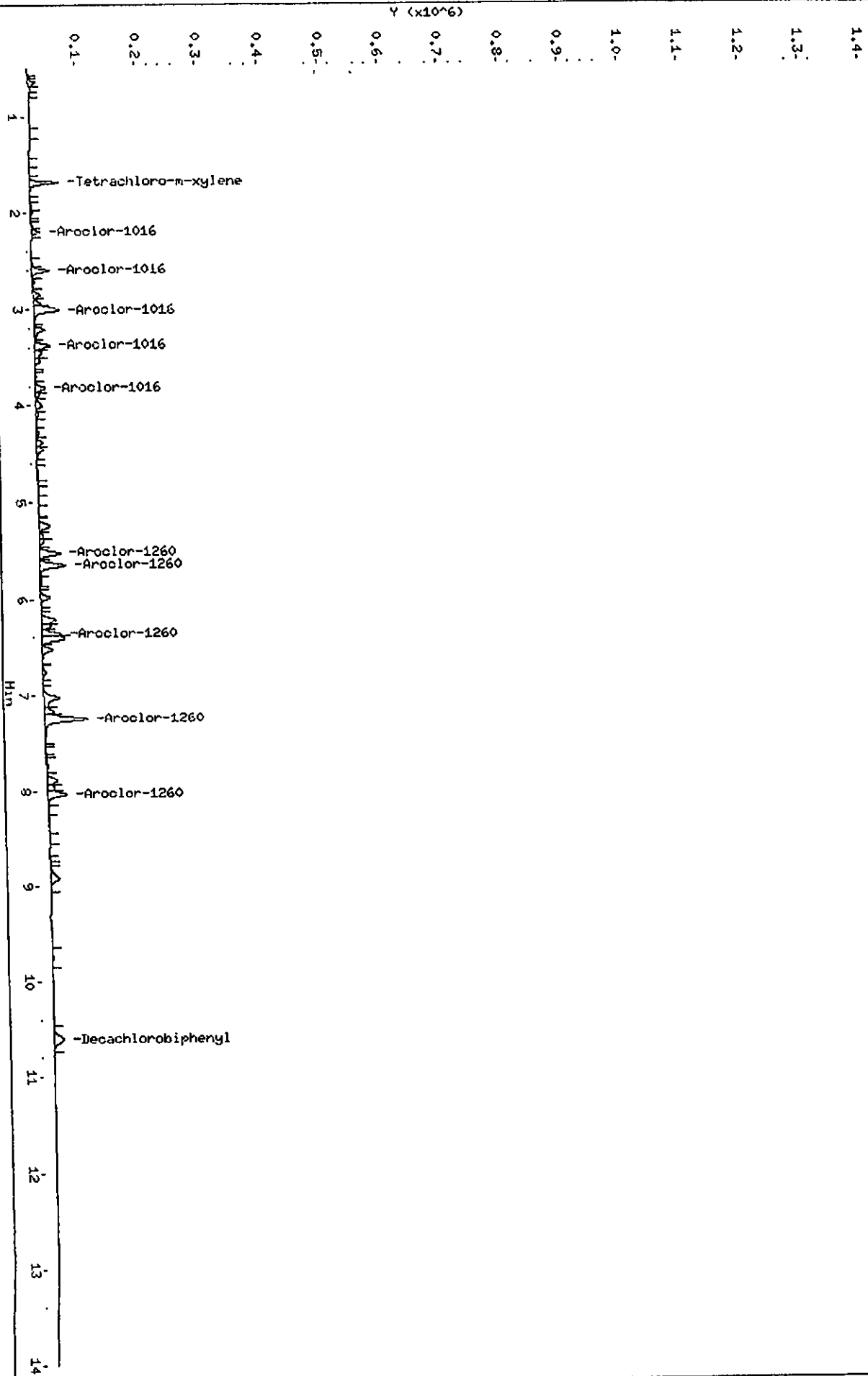
Column Phase: DB608

Instrument: gc8.i

Operator: 010139

Column diameter: 0.53

\\qpltpa02\chem\gc8.1\2191.b\H-A20614.D



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20615.D
 Lab Smp Id: ML1660
 Inj Date : 19-MAR-2001 13:02
 Operator : 010139
 Smp Info : ML1660,2191.b
 Misc Info : 190-111-12
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:42 eppingerd
 Cal Date : 19-MAR-2001 13:02
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20615.D
 Calibration Sample, Level: 2
 Compound Sublist: 1660.sub
 Sample Matrix: None

AMOUNTS							
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016					CAS # 12674-11-2		
2 190	2 190	(0 000)	26876 0	20000	0 19711	0 00- 0.00	0 00
2 602	2 602	(0.000)	52247 0.20000		0.19229	80 00- 120.00	0 00
3 011	3 009	(0 002)	78452 0	20000	0 19418	203.51- 243.51	0.00
3 379	3 380	(-0 001)	48924 0.20000		0.19350	203.51- 243.51	0 00
3 821	3 820	(0 001)	31954 0	20000	0 19344	297 56- 337.56	0.00
Average of Peak Amounts =					0 19411		

\$ 1 Tetrachloro-m-xylene					CAS # 877-09-8		
1 680	1 680	(0.000)	91983 0.01000		0.010278		

\$ 34 Decachlorobiphenyl					CAS # 2051-24-3		
10 601	10 603	(-0 002)	30681 0	01000	0.010030		

36 Aroclor-1260					CAS #: 11096-82-5		
5.527	5 525	(0 002)	64092 0	20000	0 19192	0 00- 0.00	0 00(M)
5 650	5.650	(0 000)	81332 0.20000		0.19516	95 86- 135.86	0 00
6 381	6 366	(0 015)	63085 0	20000	0.19576	116 91- 156.91	0 00
7 242	7 240	(0 002)	140933 0	20000	0.19901	120 00- 160 00	0 00
8 032	8.031	(0.001)	60770 0	20000	0.19699	108 33- 148 33	0 00
Average of Peak Amounts =					0.19577		

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20615.D
Report Date: 19-Mar-2001 14:42

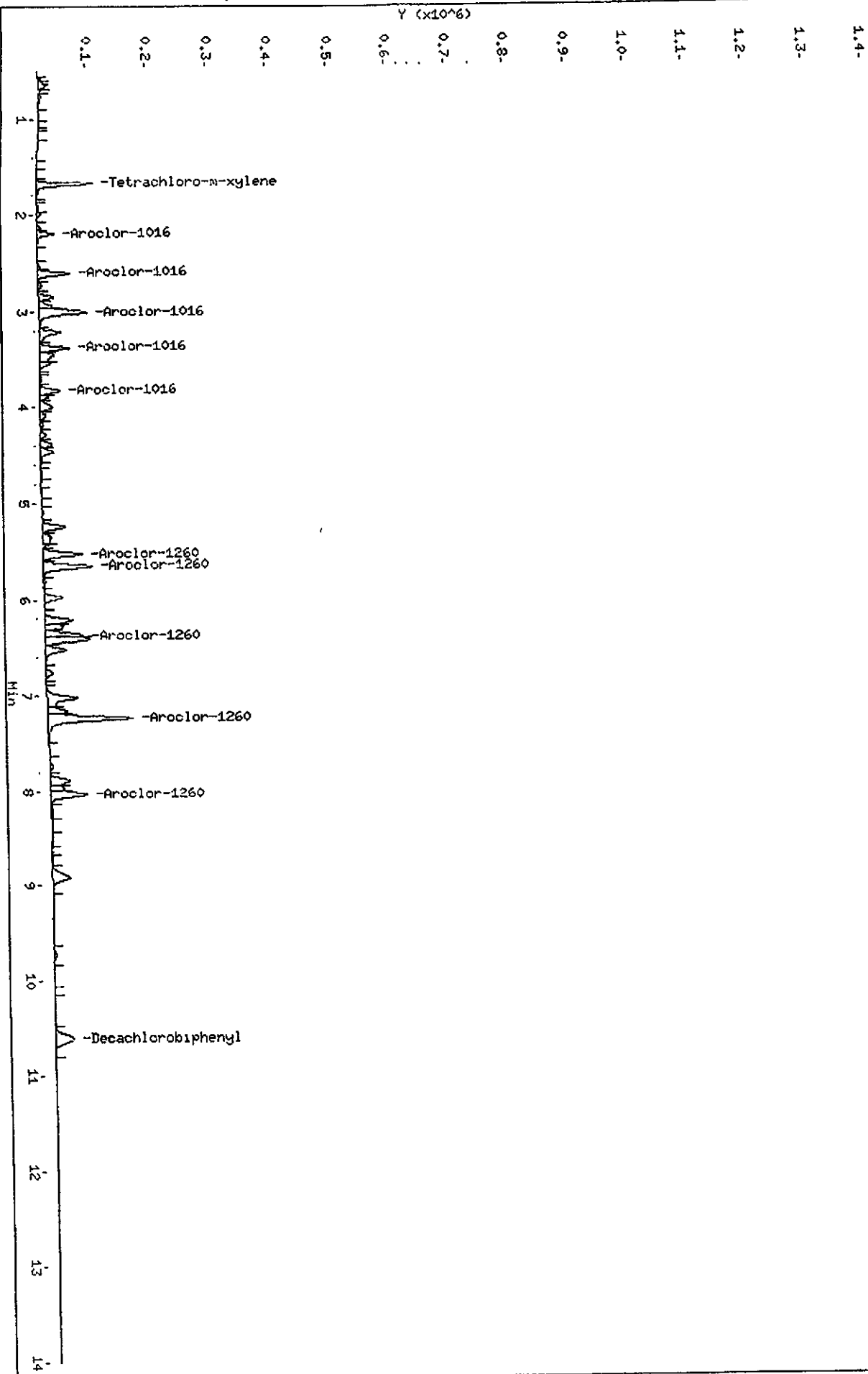
QC Flag Legend

M - Compound response manually integrated.

Data File: \\pp1tpa02\chem\808.1\2191.b\H-R20615.D
Date: 13-MAR-2001 13:02
Client ID:
Sample Info: HL1660,2191.b
Column phase: DB608

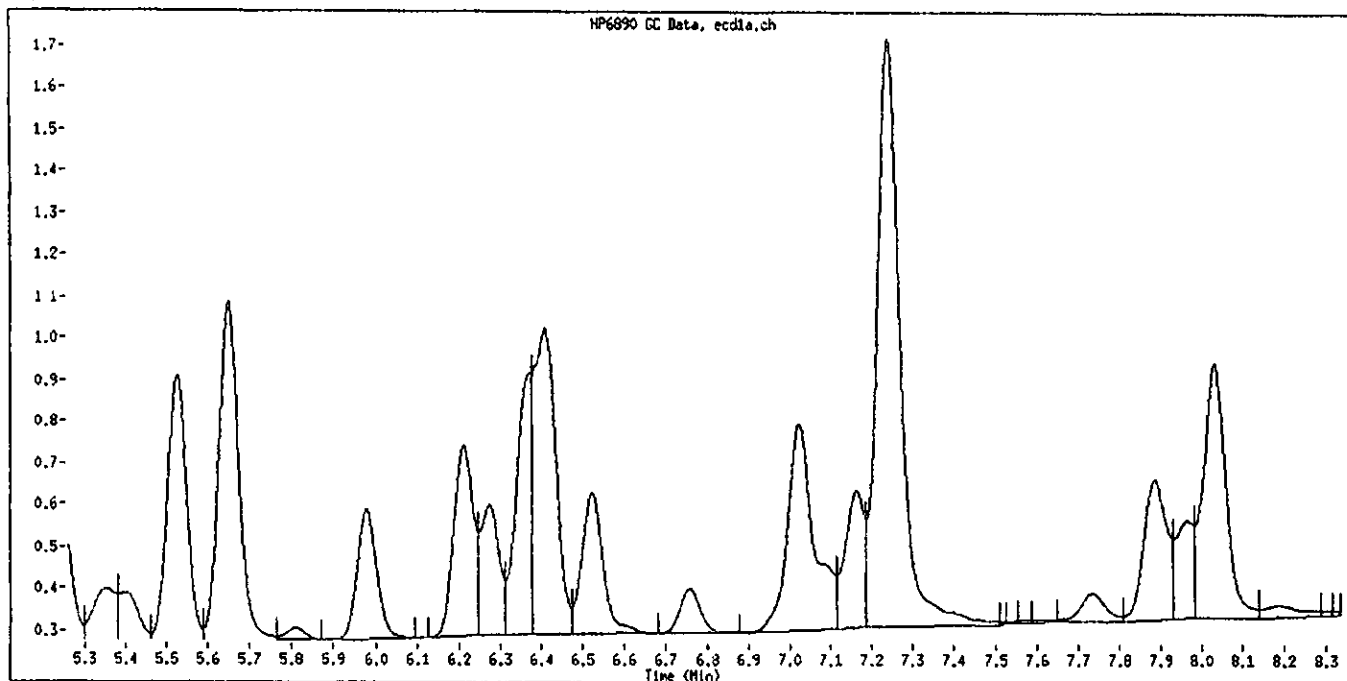
Instrument: 808.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\808.1\2191.b\H-R20615.D

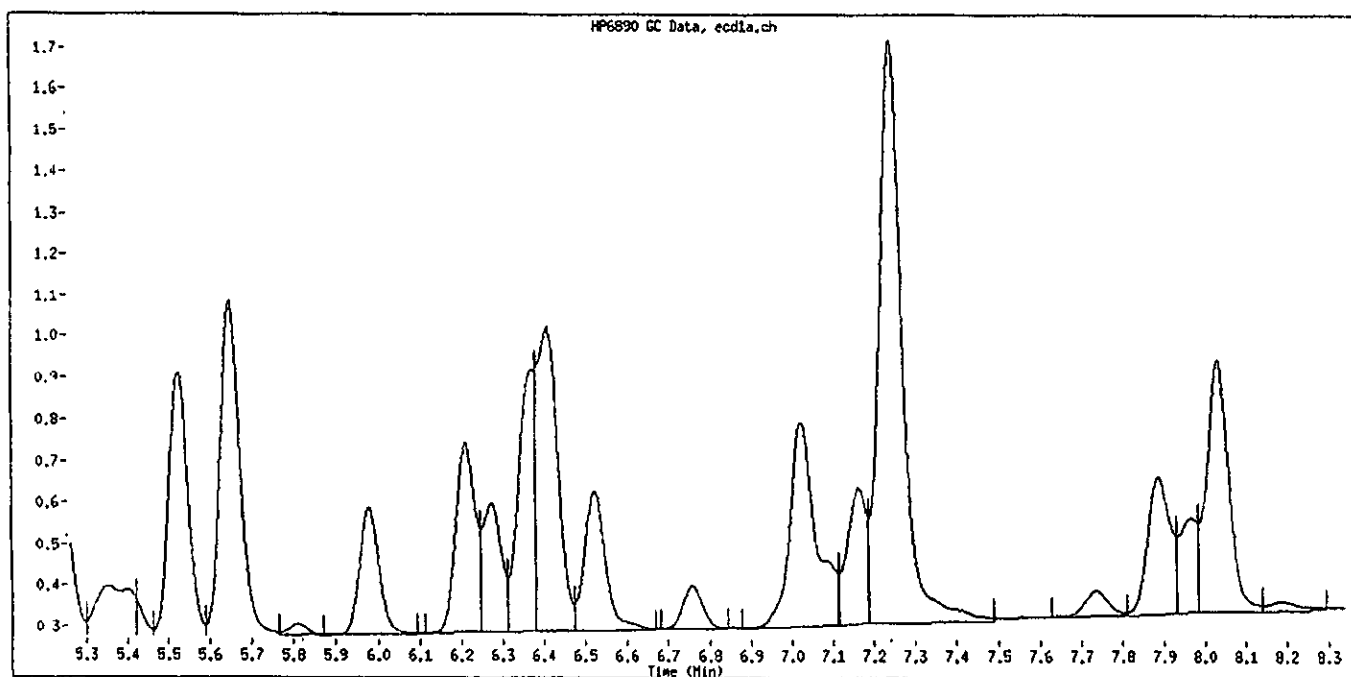


Data File Name H-A20615 D
Inj Date and Time 19-MAR 2001 13.02
Instrument ID gc8 i
Client ID
Compound Name Aroclor-1260
CAS # 11096-82-5
Report Date 03/19/2001

679 517



Original Integration



Manual Integration

Manually Integrated By EppingerD
Manual Integration Reason. Poor Chromatography

679 518

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20616.D
Report Date: 19-Mar-2001 14:43

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20616.D
Lab Smp Id: M1660
Inj Date : 19-MAR-2001 13:22
Operator : 010139
Smp Info : M1660,2191.b
Misc Info : 190-111-13
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 14:42 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 13:22 Cal File: H-A20616.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

AMOUNTS							
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO	
20 Aroclor-1016 CAS #. 12674-11-2							
2.190	2 190	(0 000)	64764 0 50000	0.48304	0 00- 0 00	0.00	
2 602	2 602	(0.000)	126827 0 50000	0.47735	80 00- 120 00	0.00	
3 009	3 009	(0 000)	194676 0.50000	0.48775	203.51- 243.51	0.00	
3.380	3 380	(0 000)	119133 0 50000	0.48042	203.51- 243.51	0.00	
3 820	3 820	(0.000)	78959 0.50000	0.48511	297 56- 337.56	0.00	
Average of Peak Amounts =				0.48273			

\$ 1 Tetrachloro-m-xylene CAS #. 877-09-8							
1 680	1 680	(0 000)	233296 0 02500	0.024910			

\$ 34 Decachlorobiphenyl CAS # 2051-24-3							
10.603	10 603	(0 000)	80706 0 02500	0.025536			

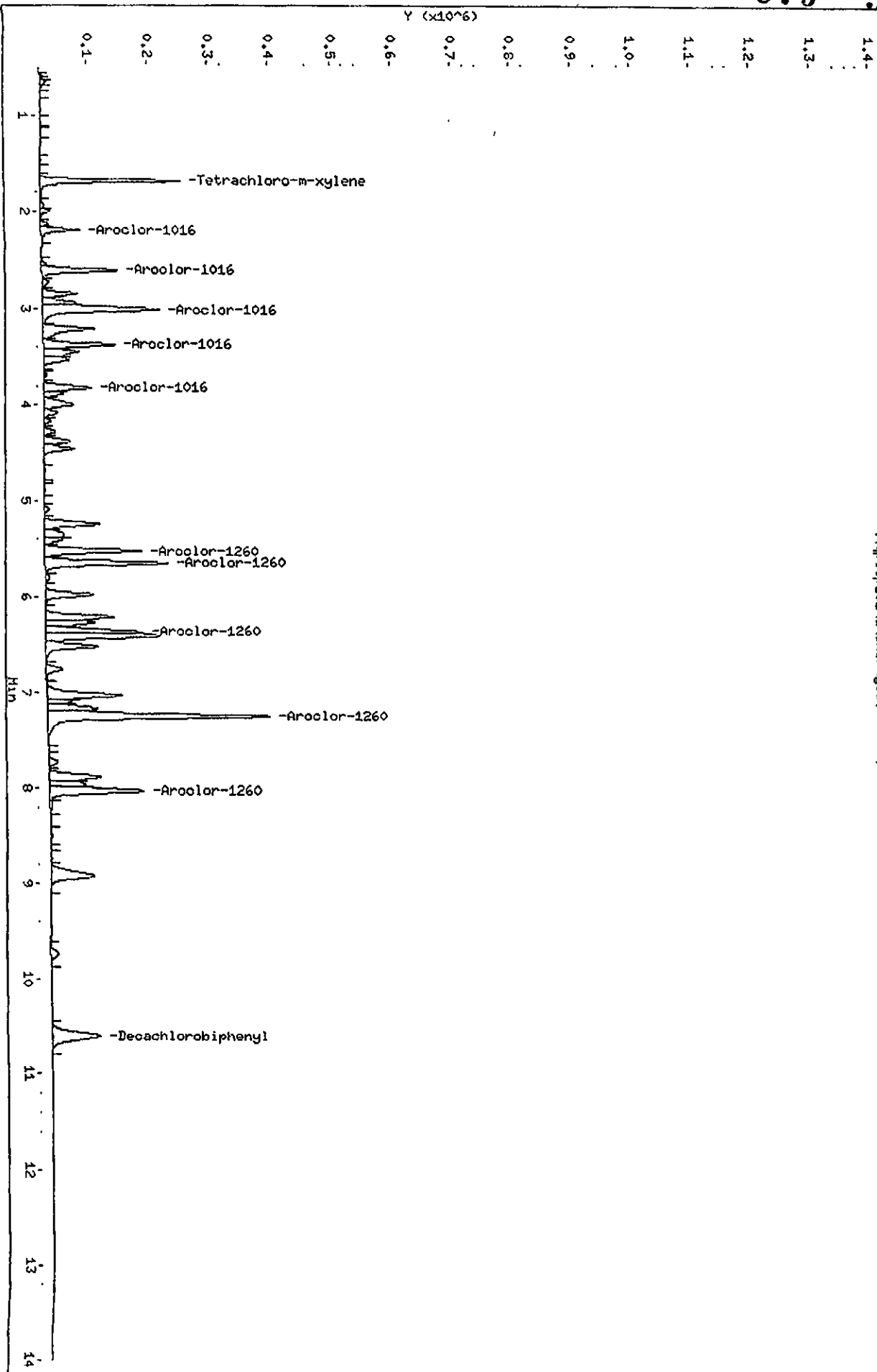
36 Aroclor-1260 CAS # 11096-82-5							
5 525	5 525	(0 000)	161819 0 50000	0.48959	0 00- 0.00	0.00	
5 650	5 650	(0.000)	205286 0.50000	0.49503	95.86 135 86	0.00	
6 366	6 366	(0 000)	161762 0.50000	0.50132	116 91- 156.91	0.00	
7 240	7 240	(0 000)	367943 0 50000	0.51288	120.00- 160 00	0.00	
8 031	8 031	(0.000)	156647 0.50000	0.50516	108 33- 148 33	0.00	
Average of Peak Amounts =				0.5008			

Data File: \\qpltpa02\chem\gc8.1\2191.b\H-A20616.D
Date: 19-MAR-2001 13:22
Client ID:
Sample Info: M1660, 2191.b

Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\qpltpa02\chem\gc8.1\2191.b\H-A20616.D



Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20617.D
 Report Date: 19-Mar-2001 14:43

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20617.D
 Lab Smp Id: MH1660
 Inj Date : 19-MAR-2001 13:42
 Operator : 010139
 Smp Info : MH1660,2191.b
 Misc Info : 190-111-14
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:43 eppingerd
 Cal Date : 19-MAR-2001 13:42
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20617.D
 Calibration Sample, Level: 4
 Compound Sublist: 1660.sub
 Sample Matrix: None

AMOUNTS								
			CAL-AMT	ON-COL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016					CAS #: 12674-11-2			
2 188	2 190	(-0 002)	122079	1 00000	0 93136	0 00-	0 00	0 00
2 601	2 602	(-0 001)	234506	1.00000	0 90931	80 00-	120 00	0 00
3 009	3 009	(0 000)	370473	1.00000	0 94517	203 51-	243.51	0.00
3 379	3 380	(-0 001)	230994	1.00000	0 94774	203.51-	243 51	0 00
3 817	3.820	(-0 003)	153922	1.00000	0 95869	297 56-	337.56	0.00
Average of Peak Amounts =					0 93845			

\$ 1 Tetrachloro-m-xylene					CAS # 877-09-8			
1.679	1 680	(-0 001)	447817	0.05000	0.048343			

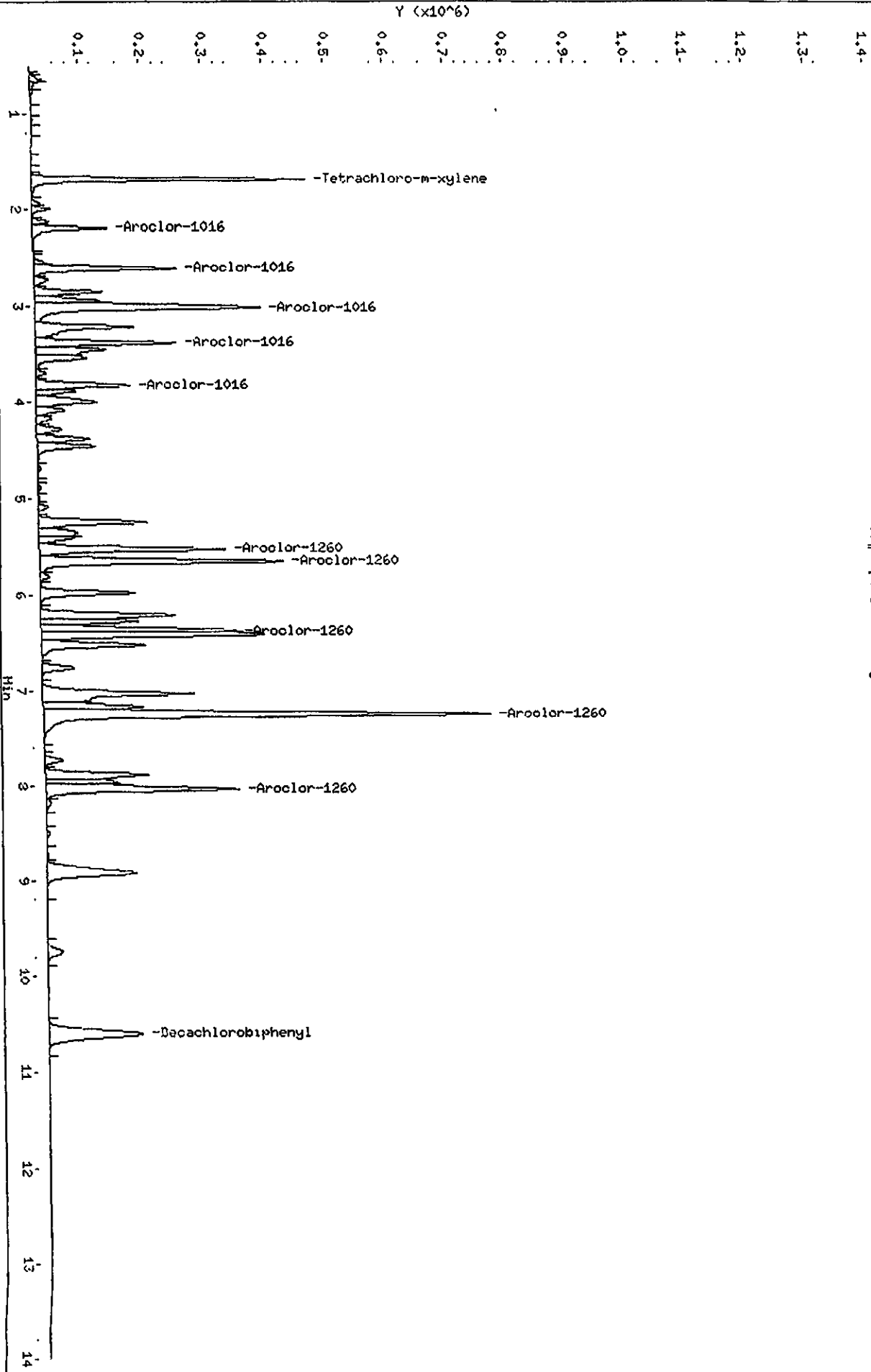
\$ 34 Decachlorobiphenyl					CAS # 2051-24-3			
10 599	10 603	(-0 004)	155984	0.05000	0.049515			

36 Aroclor-1260					CAS # 11096 82-5			
5.524	5 525	(-0 001)	306386	1.00000	0 94422	0 00-	0 00	0 00
5 647	5 650	(0 003)	401031	1 00000	0 97508	95 86-	135 86	0 00
6 375	6 366	(0 009)	320377	1 00000	0 99465	116 91-	156 91	0 00
7 239	7 240	(-0 001)	740772	1 00000	1.0242	120.00-	160.00	0 00
8 031	8.031	(0.000)	316578	1.00000	1 0156	108 33-	148.33	0 00
Average of Peak Amounts =					0.99076			

Data File: \\qf1tpa02\chem\gc8.i\2191.b\H-A20617.D
 Date: 19-MAR-2001 13:42
 Client ID:
 Sample Info: MH1660,2191.b
 Column Phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53

\\qf1tpa02\chem\gc8.i\2191.b\H-A20617.D



Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20618.D
 Report Date: 19-Mar-2001 14:43

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20618.D
 Lab Smp Id: H1660
 Inj Date : 19-MAR-2001 14:02
 Operator : 010139
 Smp Info : H1660,2191.b
 Misc Info : 190-112-1
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:43 eppingerd
 Cal Date : 19-MAR-2001 14:02
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20618.D
 Calibration Sample, Level: 5
 Compound Sublist: 1660.sub
 Sample Matrix: None

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====
20 Aroclor-1016				CAS #: 12674-11-2		
2 190	2 190	(0 000)	225886 2.00000	1.7723	0 00- 0 00	0.00(M)
2 602	2 602	(0 000)	442611 2 00000	1.7664	80 00- 120.00	0 00
3 010	3 009	(0 001)	714457 2.00000	1 8556	203.51- 243.51	0 00
3 377	3 380	(-0 003)	441719 2.00000	1 8470	203.51- 243 51	0 00
3 818	3 820	(-0 002)	292631 2 00000	1.8555	297 56- 337 56	0.00
Average of Peak Amounts =				1 8194		

\$ 1 Tetrachloro-m-xylene				CAS # 877-09-8		
1 679	1 680	(-0 001)	873483 0 10000	0 095384		

\$ 34 Decachlorobiphenyl				CAS #: 2051-24-3		
10 602	10 603	(-0 001)	315428 0.10000	0 10010		

36 Aroclor-1260				CAS # 11096-82-5		
5 526	5 525	(0 001)	598390 2.00000	1.8733	0.00- 0.00	0.00(M)
5.647	5 650	(-0 003)	771442 2 00000	1 8993	95 86- 135 86	0.00
6 377	6 366	(0 011)	631761 2.00000	1.9690	116 91- 156.91	0.00
7 239	7 240	(-0 001)	1431558 2 00000	1.9834	120 00- 160 00	0 00
8 031	8 031	(0 000)	621433 2 00000	1.9949	108 33- 148 33	0.00
Average of Peak Amounts =				1 944		

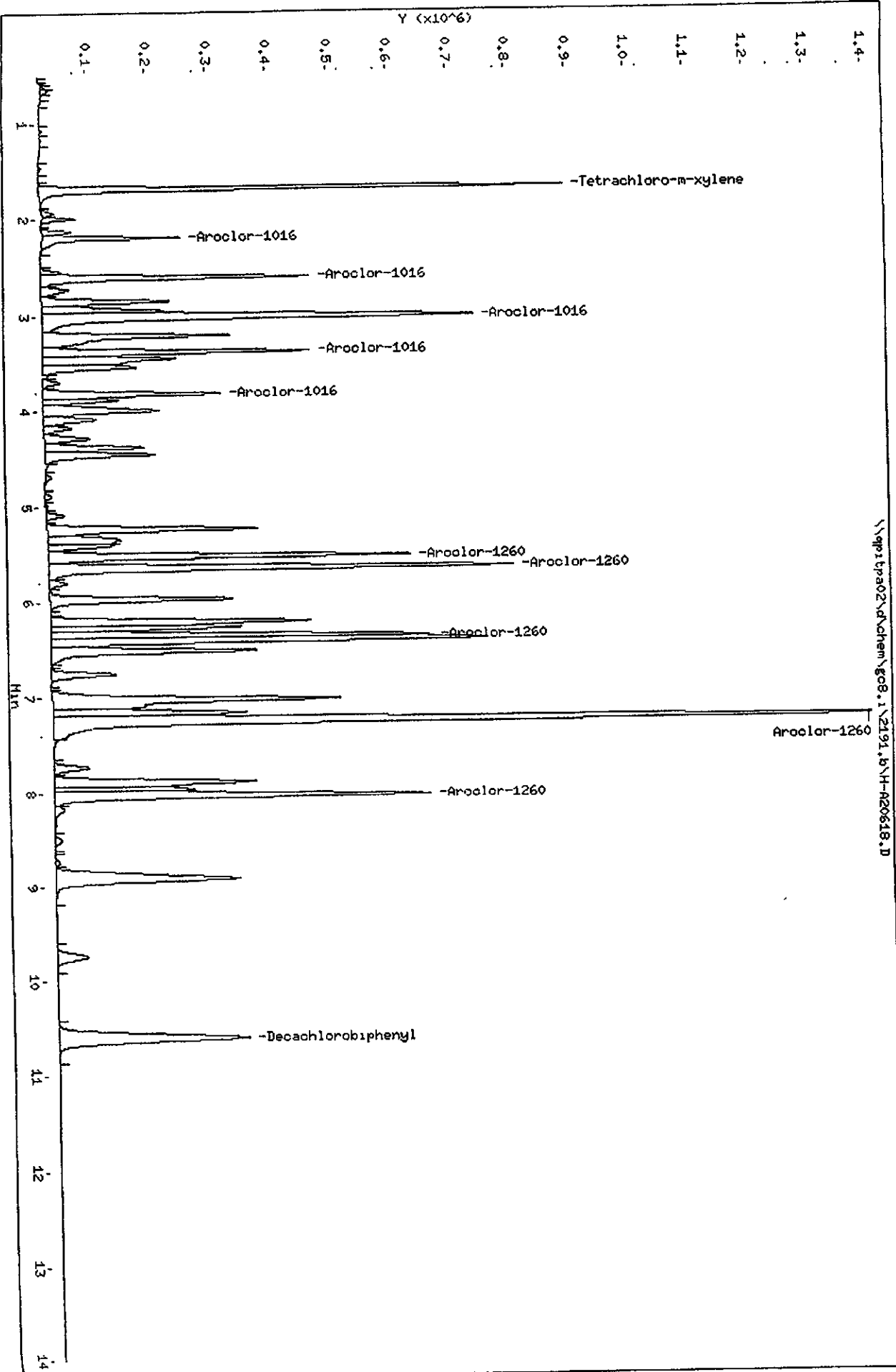
Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20618.D
Report Date: 19-Mar-2001 14:43

QC Flag Legend

M - Compound response manually integrated.

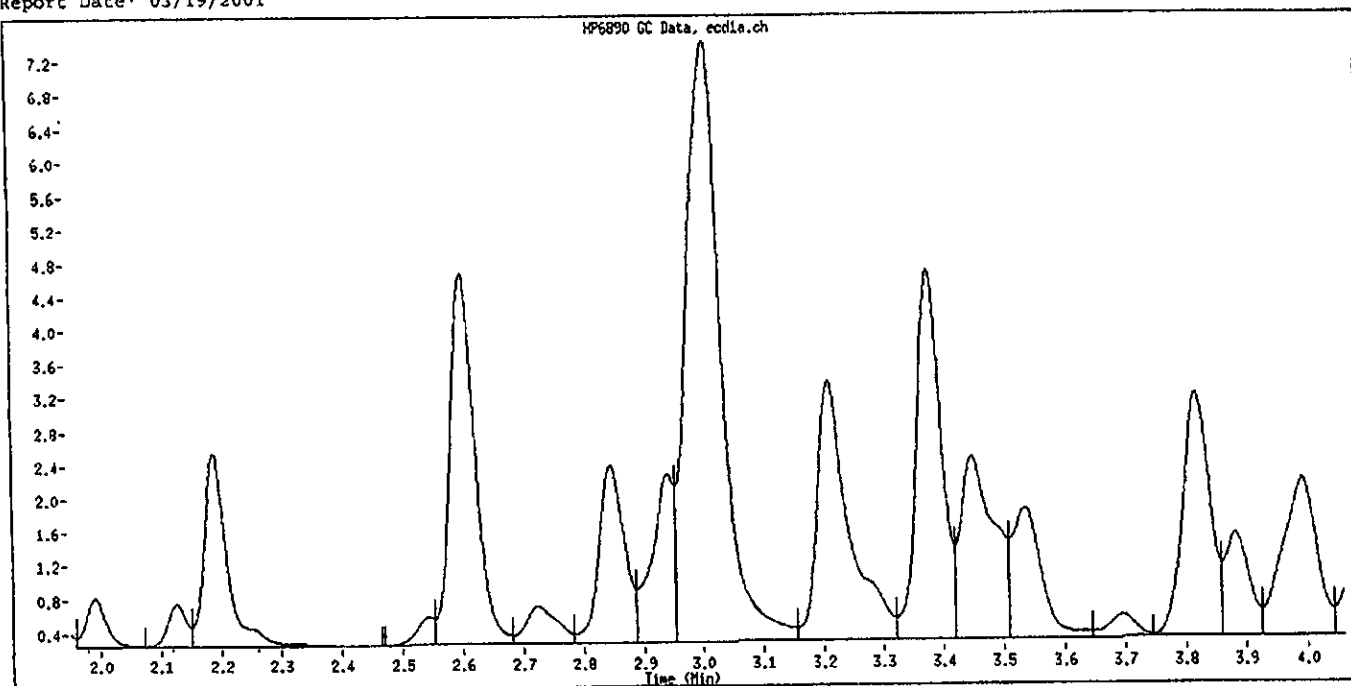
Data File: \\qptp02\chem\g08.1\2191.b\H-A20618.D
Date: 19-MAR-2001 14:02
Client ID:
Sample Info: H1660,2191.b
Column phase: DB608

Instrument: g08.i
Operator: 010139
Column diameter: 0.53

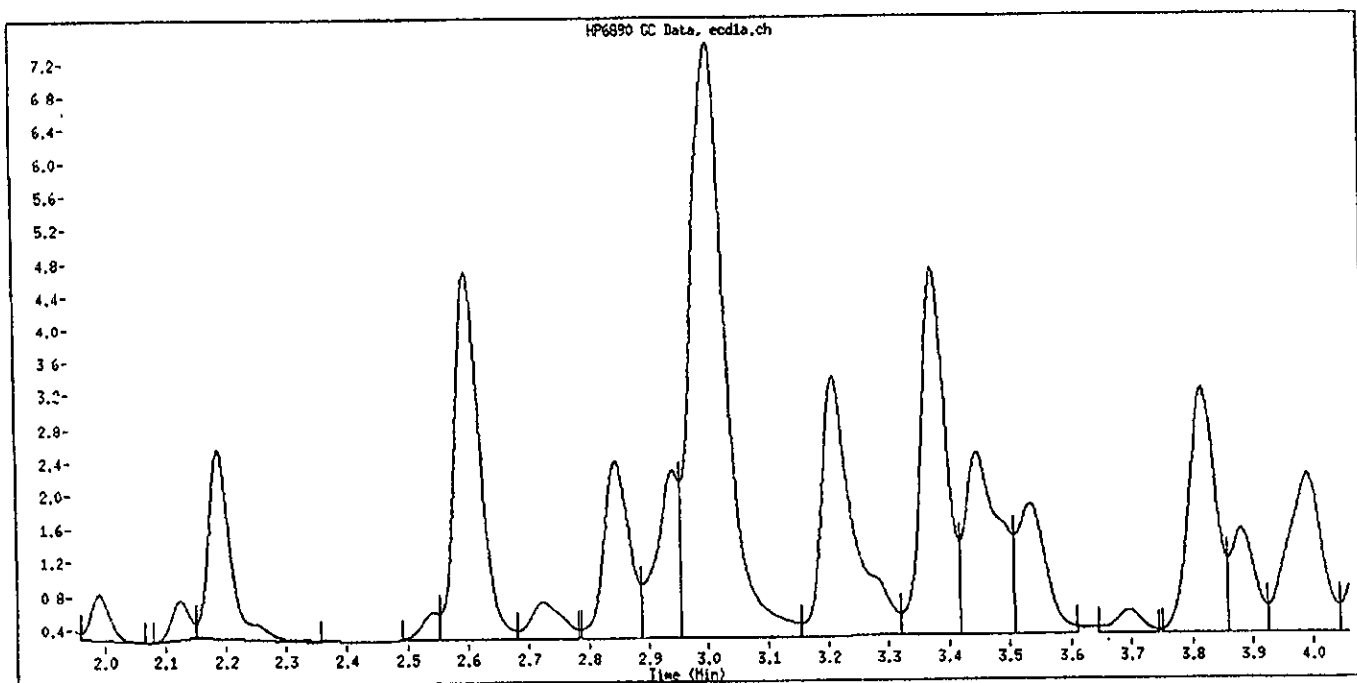


Data File Name H-A20618 D
Inj Date and Time 19-MAR 2001 14 02
Instrument ID gc8 1
Client ID
Compound Name: Aroclor-1016
CAS # 12674-11-2
Report Date: 03/19/2001

679 525



Original Integration



Manual Integration

Manually Integrated By: EppingerD
Manual Integration Reason: Poor Chromatography

Inj Date and Time 19-MAR-2001 14 02

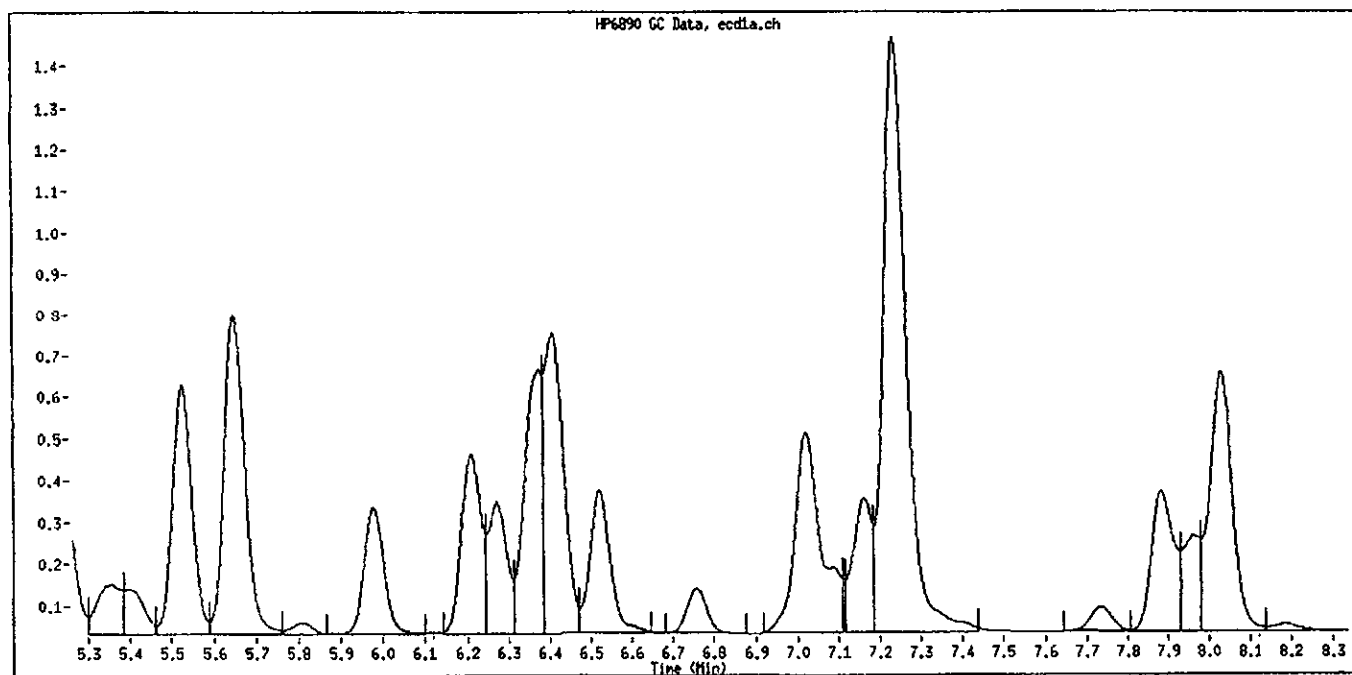
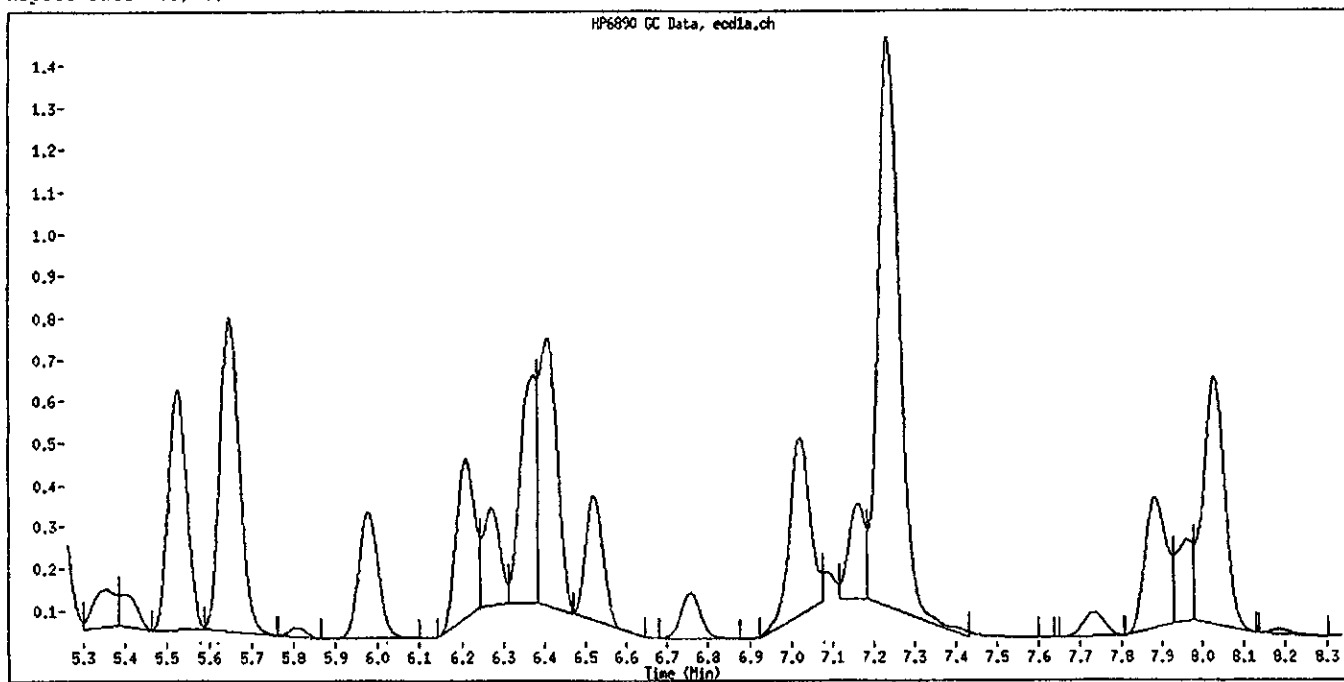
Instrument ID gc8 1

Client ID

Compound Name Aroclor-1260

CAS # 11096-82-5

Report Date 03/19/2001



Manually Integrated By EppingerD

Manual Integration Reason Poor Chromatography

679 527

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20619.D
Lab Smp Id: XH1660
Inj Date : 19-MAR-2001 14:21
Operator : 010139
Smp Info : XH1660,2191.b
Misc Info : 190-112-2
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 14:44 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.D
Calibration Sample, Level: 6
Compound Sublist: 1660.sub
Sample Matrix: None

AMOUNTS						
		CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (ng)	(ng)	TARGET RANGE	RATIO
..						
20 Aroclor-1016				CAS # 12674-11-2		
2 189	2 190	(-0 001)	443668 4 00000	3.5580	0 00- 0.00	0 00
2 601	2 602	(-0 001)	848611 4 00000	3 4755	80 00- 120.00	0 00
3 009	3 009	(0 000)	1393423 4.00000	3 6775	203.51- 243.51	0 00
3.378	3 380	(-0 002)	869305 4.00000	3.6910	203 51- 243.51	0.00
3 819	3 820	(-0 001)	564289 4.00000	3.6421	297 56- 337 56	0.00
Average of Peak Amounts =				3.6088		

\$ 1 Tetrachloro-m-xylene				CAS # 877-09-8		
1 680	1 680	(0.000)	1704526 0 20000	0 18831		

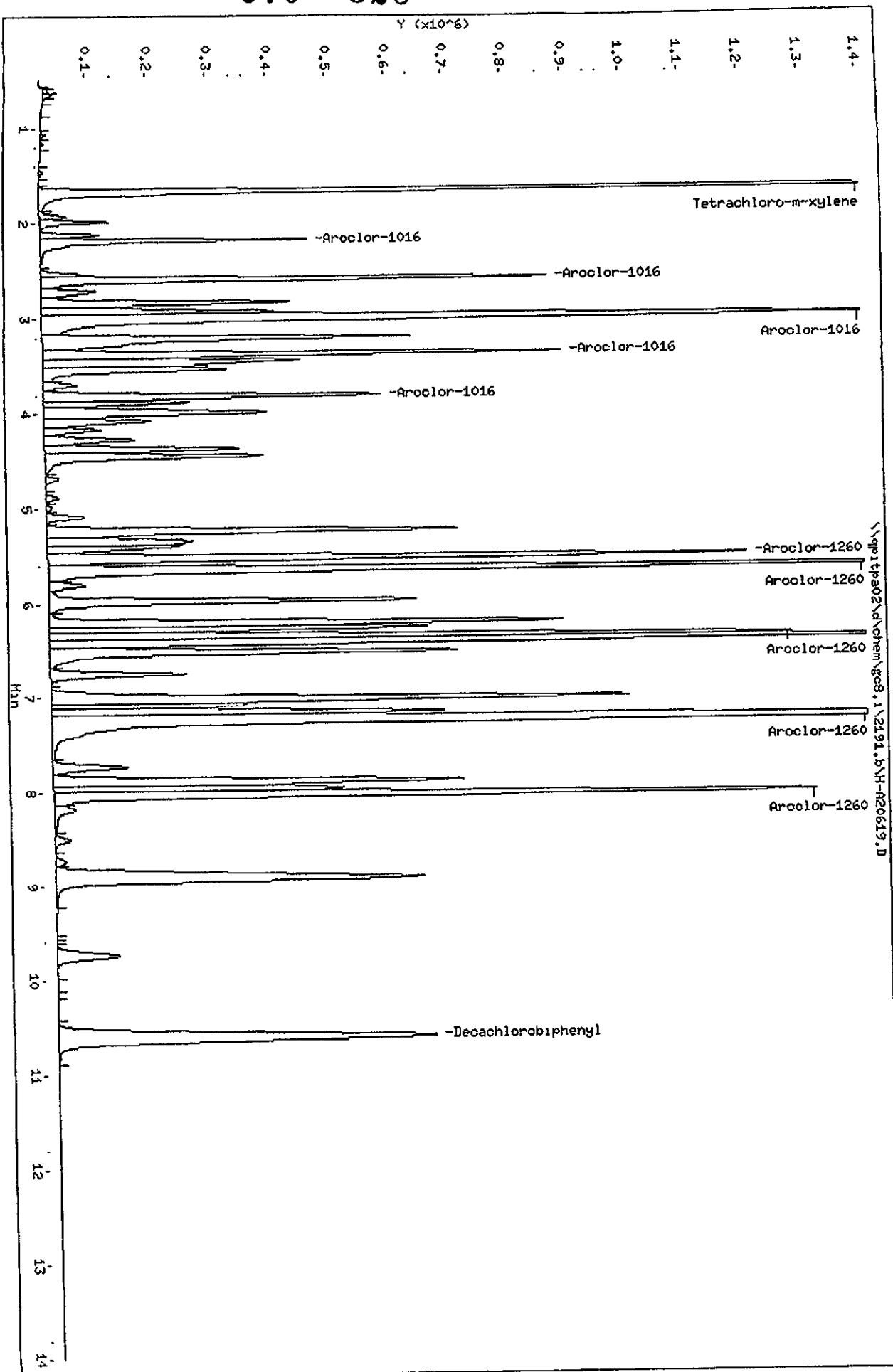
\$ 34 Decachlorobiphenyl				CAS # 2051-24-3		
10.599	10 603	(-0.004)	631339 0 20000	0 20030		

36 Aroclor-1260				CAS # 11096-82-5		
5 524	5.525	(-0 001)	1173218 4.00000	3 7236	0 00- 0 00	0 00
5.649	5 650	(-0 001)	1542271 4.00000	3.8295	95.86- 135 86	0 00
6 372	6 366	(0 006)	1240645 4 00000	3 8883	116 91- 156.91	0 00
7 241	7 240	(0 001)	2926873 4 00000	4.0459	120 00- 160 00	0 00
8 033	8 031	(0 002)	1276930 4.00000	4.0822	108 33- 148.33	0 00
Average of Peak Amounts =				3.9139		

679 528

Data File: \\pptpa02\chem\gc8.1\2191.b\H-A20619.D
 Date: 19-MAR-2001 14:21
 Client ID:
 Sample Info: XH1560.2191.b
 Column phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53



679 529

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20620.D
Lab Smp Id: 2M2154
Inj Date : 19-MAR-2001 14:41
Operator : 010139
Smp Info : 2M2154,2191.b
Misc Info : 190-120-10
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 14:59 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061
Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.D
Continuing Calibration Sample
Compound Sublist: 2154.sub
Sample Matrix: None

AMOUNTS							
		CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	TARGET RANGE	RATIO
ng)							
8	Aroclor-1221					CAS #: 11104-28-2	
1 466	1 464	{0 002}	31385	0 50000	0 56944	0 00- 0.00	0 00
1 990	1 987	{0 003}	42374	0 50000	0.53195	116 57- 156.57	0.00
2 189	2 186	{0 003}	84729	0.50000	0.55779	66.04- 106.04	0.00
Average of Peak Amounts =				0 55306	10.67-D		

\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8
1 678 1.680 {-0.002} 9238 0 02500 0 0010206

\$ 34 Decachlorobiphenyl CAS #: 2051-24-3

Compound Not Detected

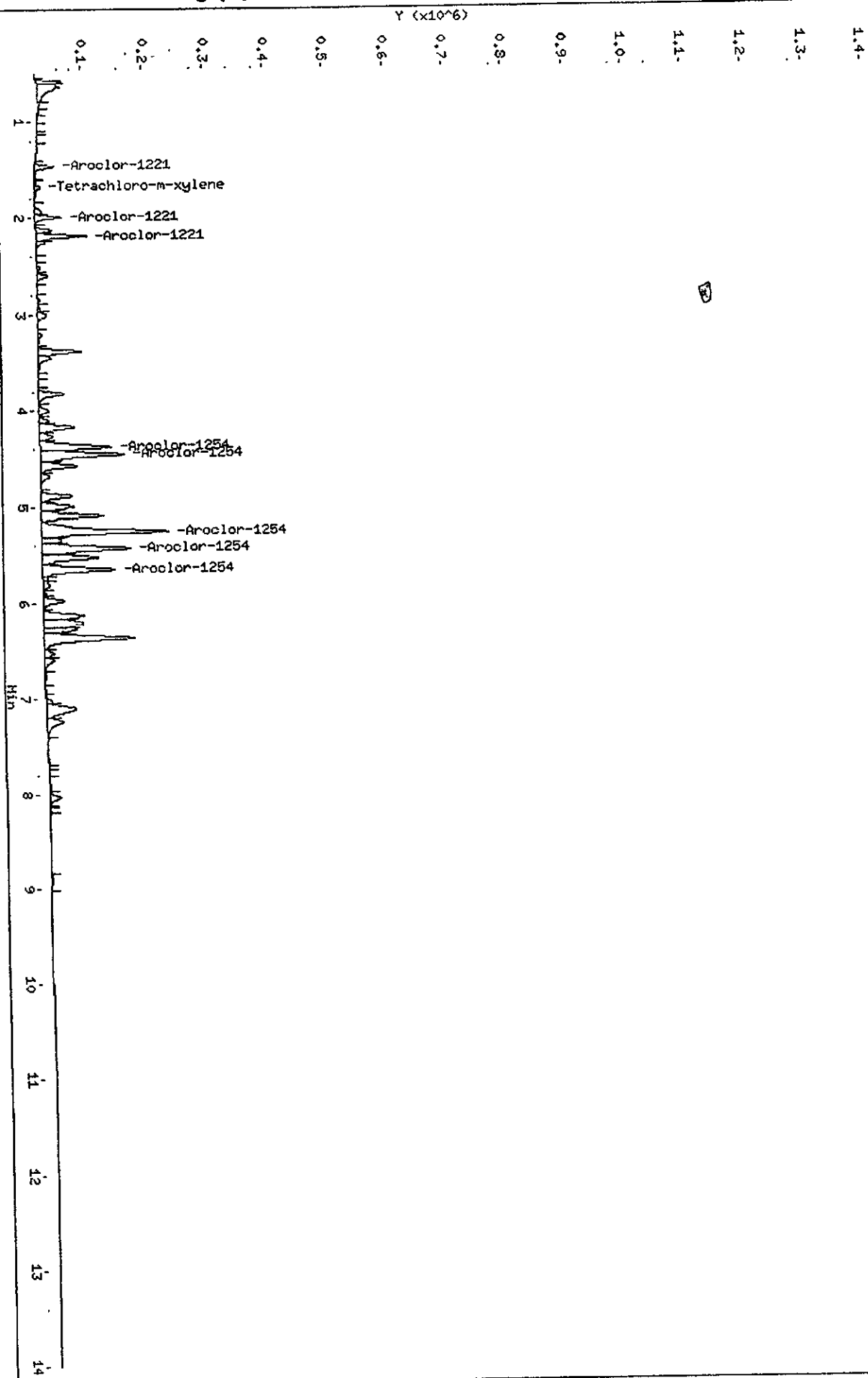
33	Aroclor-1254					CAS # 11097-69-1	
4 379	4 374	{0 005}	118865	0 50000	0 56511	0 00- 0 00	0 00
4 453	4 451	{0 002}	139191	0.50000	0.54928	92.23- 132 23	0 00
5.254	5 250	{0 004}	208829	0 50000	0.55863	77 40- 117 40	0 00
5 431	5 429	{0 002}	146397	0.50000	0.56741	51.09- 91 09	0 00
5 647	5 646	{0 001}	120675	0 50000	0.51382	65 01- 105 01	0 00
Average of Peak Amounts =				0 55085	10.77-D		

2nd
SOURCE

Data File: \\p1tpa02\chem\g08.1\2191.b\H-A20620.D
 Date: 19-MAR-2001 14:41
 Client ID:
 Sample Info: 2H2154, 2191.b
 Column phase: DB608

Instrument: g08.1
 Operator: 010139
 Column diameter: 0.53

\\p1tpa02\chem\g08.1\2191.b\H-A20620.D



679 531

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20621.D
Lab Smp Id: 2M1232
Inj Date : 19-MAR-2001 15:01
Operator : 010139
Smp Info : 2M1232,2191.b
Misc Info : 190-120-11
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 15:22 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061
Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.D
Continuing Calibration Sample
Compound Sublist: 1232.sub
Sample Matrix: None

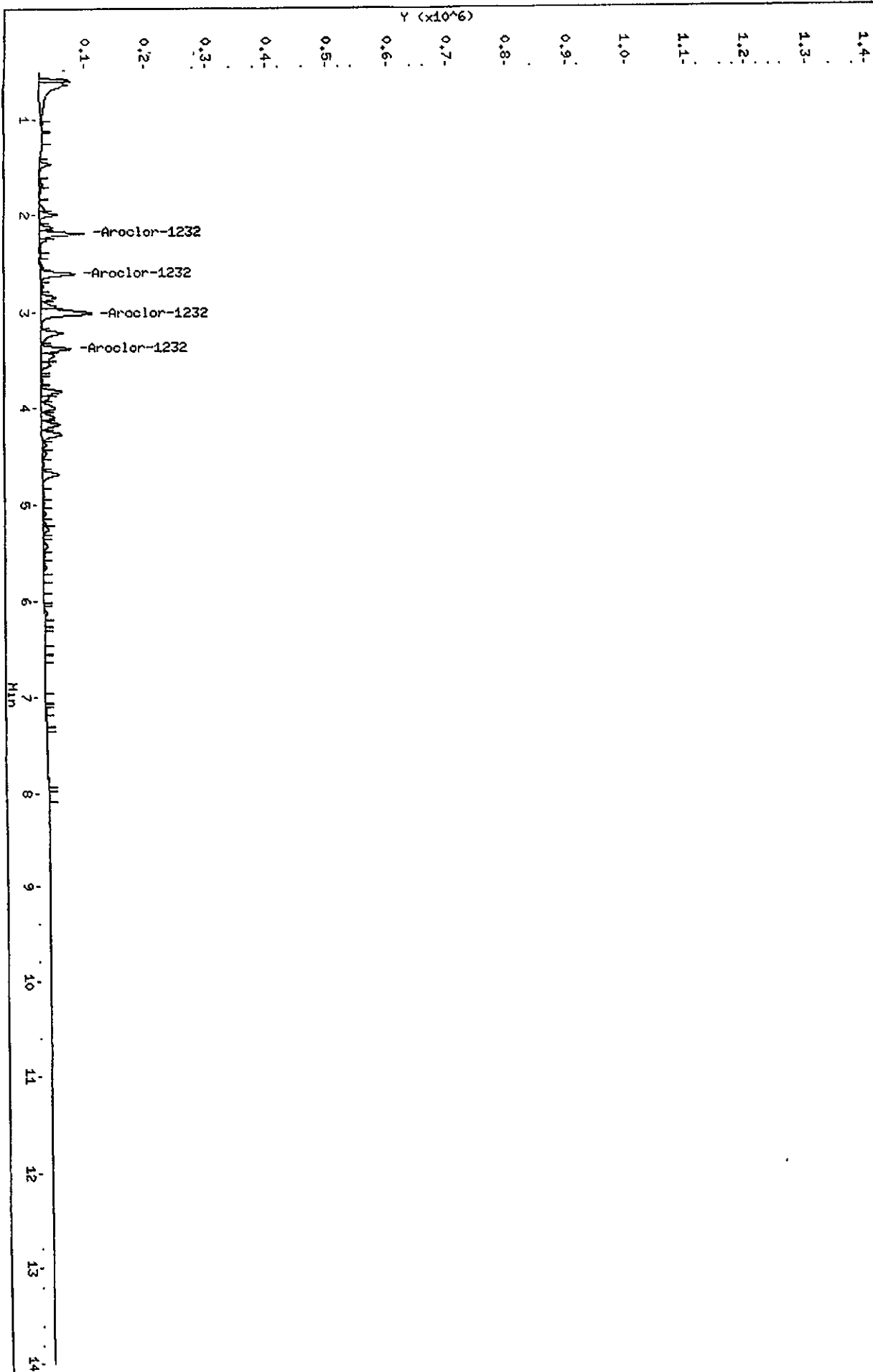
AMOUNTS							
		CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE
RATIO							
14	Aroclor-1232						CAS # 11141-16-5
2 188	2 188	(0.000)	74325	0 50000	0.69825	0 00-	0 00
2 601	2.600	(0.001)	59625	0.50000	0 59761	146.26-	186.26
3 009	3 008	(0 001)	85355	0 50000	0 59620	65 99-	105.99
3 377	3 377	(0 000)	49931	0 50000	0 52510	74 18-	114 18
Average of Peak Amounts =				0 60429			

2nd
SOURCE

Data File: \\pp1tpa02\chem\ec8.1\2191.b\H-A20621.D
Date: 19-MAR-2001 15:04
Client ID:
Sample Info: 2H1232,2191.b
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\ec8.1\2191.b\H-A20621.D



679 533

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20622.D
Lab Smp Id: 2M1242
Inj Date : 19-MAR-2001 15:21
Operator : 010139
Smp Info : 2M1242,2191.b
Misc Info : 190-120-12
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 16:09 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061
Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.D
Continuing Calibration Sample
Compound Sublist: 1242.sub
Sample Matrix: None

AMOUNTS						
		CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ng)	TARGET RANGE
..						
15 Aroclor-1242			CAS #. 53469-21-9			
3 010	3.010	(0.000)	153222	0.50000	0 52515	0.00- 0.00 0 00
3 379	3.380	(-0.001)	93994	0.50000	0 52021	310 13- 350.13 0 00
3 818	3.818	(0.000)	67694	0.50000	0 50804	749 70- 789.70 0 00
4 269	4.269	(0.000)	67794	0.50000	0 51589	512.48- 552.48 0 00
4.684	4.682	(0.002)	56809	0.50000	0 50230	314 30- 354.30 0 00

Average of Peak Amounts =

0.51432

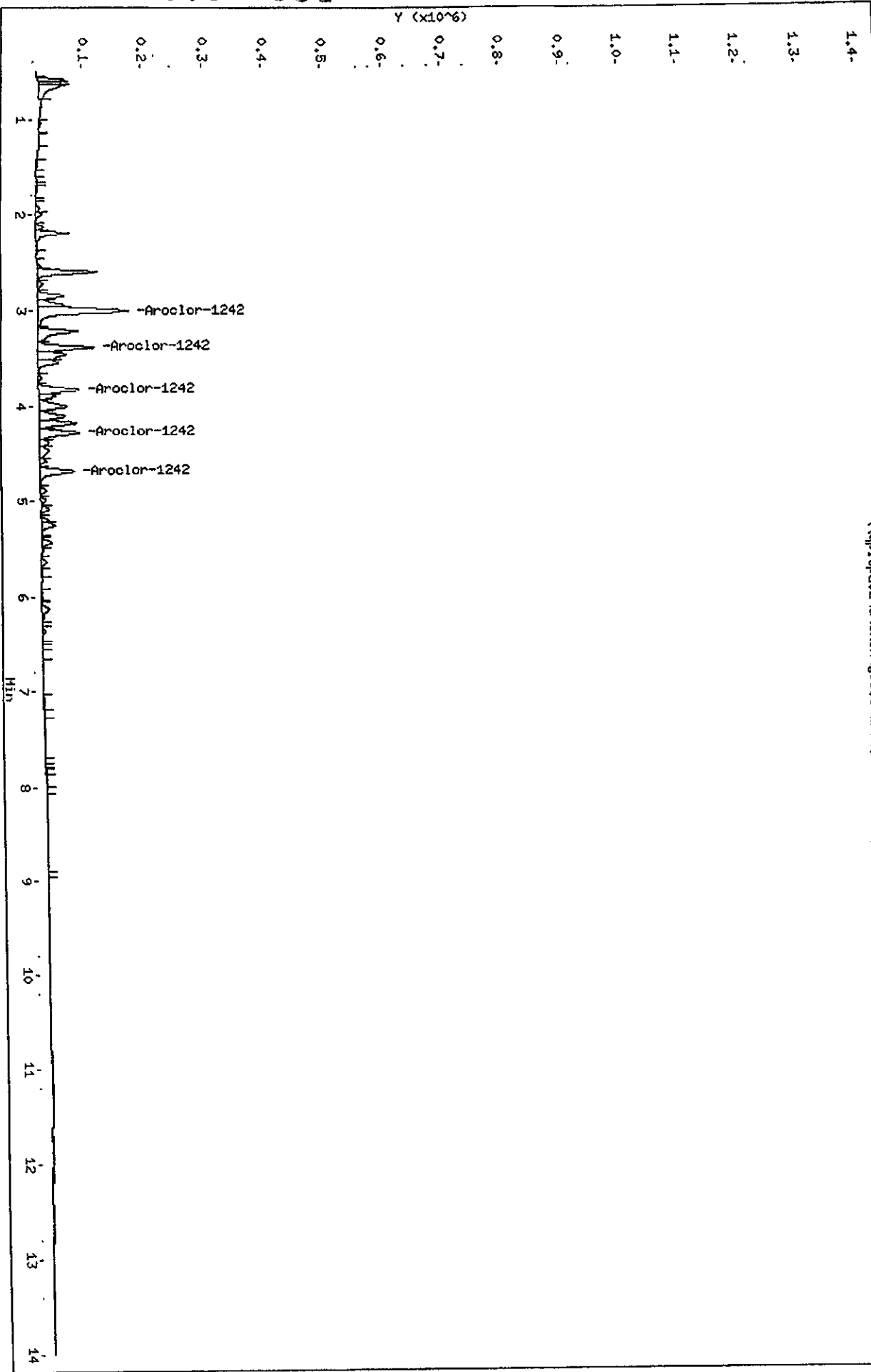
2.97.0

2nd
SOURCE

Data File: \\gpi1tpa02\chem\gc8.1\2191.b\H-A20622.D
 Date: 19-MAR-2004 15:21
 Client ID:
 Sample Info: 2H1242,2191.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

\\gpi1tpa02\chem\gc8.1\2191.b\H-A20622.D



679 535

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20623.D
Lab Smp Id: 2M1248
Inj Date : 19-MAR-2001 15:41
Operator : 010139
Smp Info : 2M1248,2191.b
Misc Info : 190-120-13
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 16:09 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.D
Continuing Calibration Sample
Compound Sublist: 1248.sub
Sample Matrix: None

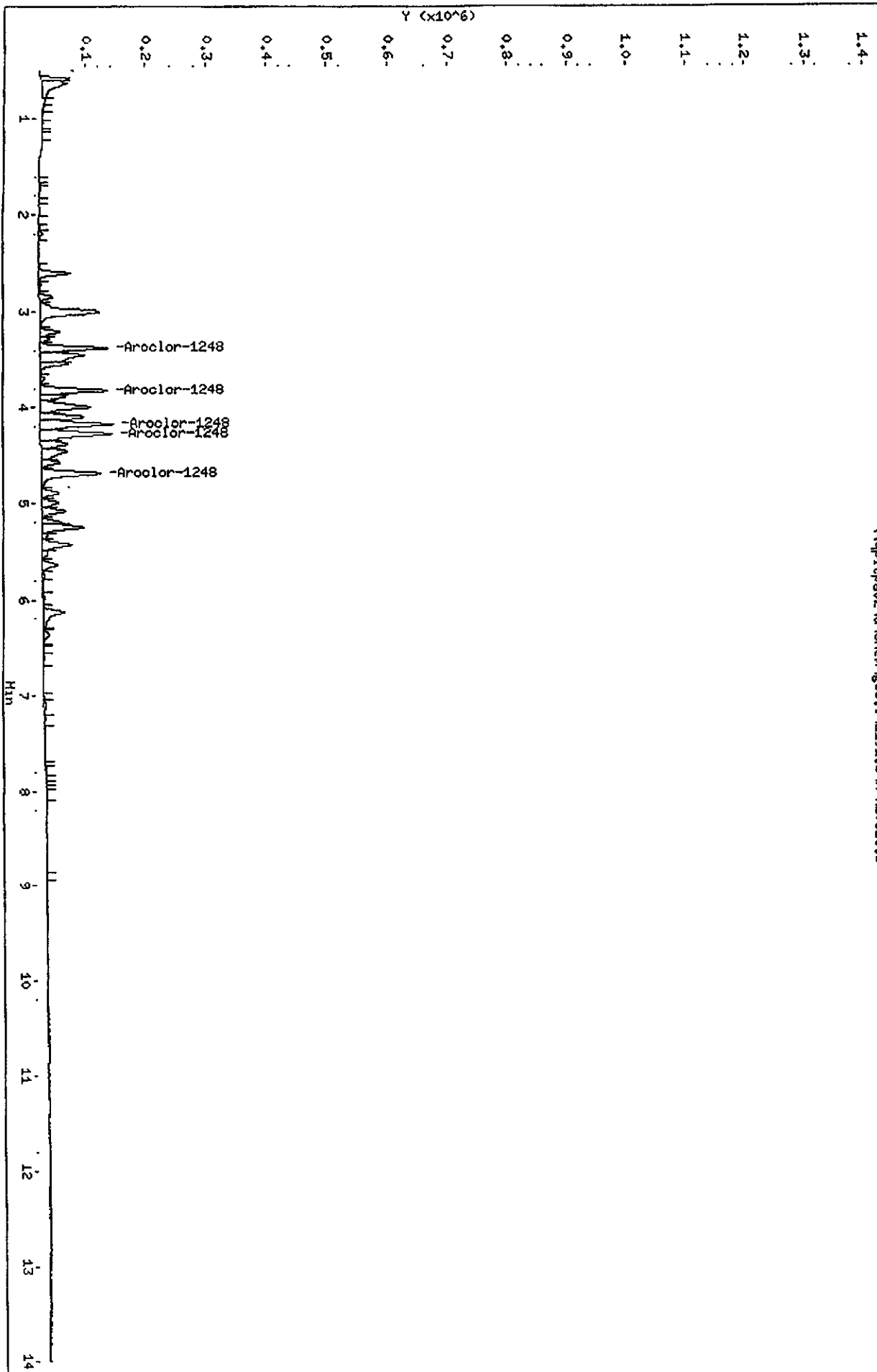
AMOUNTS									
			CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE		RATIO
..	*****	*****	*****	*****	*****	*****	*****	*****	*****
21 Aroclor-1248					CAS #: 12672-29-6				
3 380	3 380	(0 000)	112005	0 50000	0 56641	0 00-	0 00		0.00
3 822	3.819	(0 003)	109870	0.50000	0.59011	114 57-	154.57		0.00
4 170	4 169	(0 001)	118777	0 50000	0 56206	63 67-	103.67		0.00
4 269	4 270	(-0 001)	115711	0 50000	0 59260	43 86-	83.86		0 00
4 683	4.685	(-0 002)	98131	0.50000	0.51320	128.08-	168 08		0 00
Average of Peak Amounts =					0.56488	137.0			

2nd
SOURCE

Data File: \\pptpa02\chem\gc8.1\2191.b\H-A20623.D
Date : 19-MAR-2001 15:41
Client ID:
Sample Info: 2H1248,2191.b
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\pptpa02\chem\gc8.1\2191.b\H-A20623.D



679 537

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20624.D
Lab Smp Id: 2M1660
Inj Date : 19-MAR-2001 16:00
Operator : 010139
Smp Info : 2M1660,2191.b
Misc Info : 190-120-14
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 16:25 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061
Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.D
Continuing Calibration Sample
Compound Sublist: 1660.sub
Sample Matrix: None

		AMOUNTS					
		CAL-AMT	ON-COL				
RT	EXP RT	DLT RT	RT	RESPONSE (ng)	(ng)	TARGET RANGE	RATIO
..		*****	*****	*****	*****	*****	*****
20 Aroclor-1016				CAS # 12674-11-2			
2 189	2 190	(-0 001)		66194 0 50000	0.53085	0.00- 0 00	0 00
2 601	2 602	(-0 001)		130007 0 50000	0 53244	80.00- 120.00	0.00
3 009	3.009	(0 000)		201404 0 50000	0.53154	203 51- 243 51	0 00
3 379	3 380	(-0 001)		126129 0 50000	0.53554	203.51- 243 51	0.00
3 821	3.820	(0.001)		81607 0.50000	0.52672	297 56- 337.56	0.00
Average of Peak Amounts =				0.53142			

6.37-D

\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8

Compound Not Detected

\$ 34 Decachlorobiphenyl CAS # 2051-24-3
10 604 10 603 (0.001) 1400 0.02500 0 00044416

36 Aroclor-1260				CAS # 11096-82-5			
5 527	5.525	(0 002)		177955 0.50000	0.56480	0 00- 0.00	0.00
5 649	5 650	(-0.001)		224961 0 50000	0.55858	95 86- 135.86	0 00
6 369	6 366	(0 003)		188520 0 50000	0 59084	116 91- 156.91	0.00
7.240	7.240	(0.000)		358759 0.50000	0.49593	120.00- 160 00	0 00
8 032	8 031	(0.001)		161796 0.50000	0.51725	108.33- 148 33	0.00
Average of Peak Amounts =				0.54546			

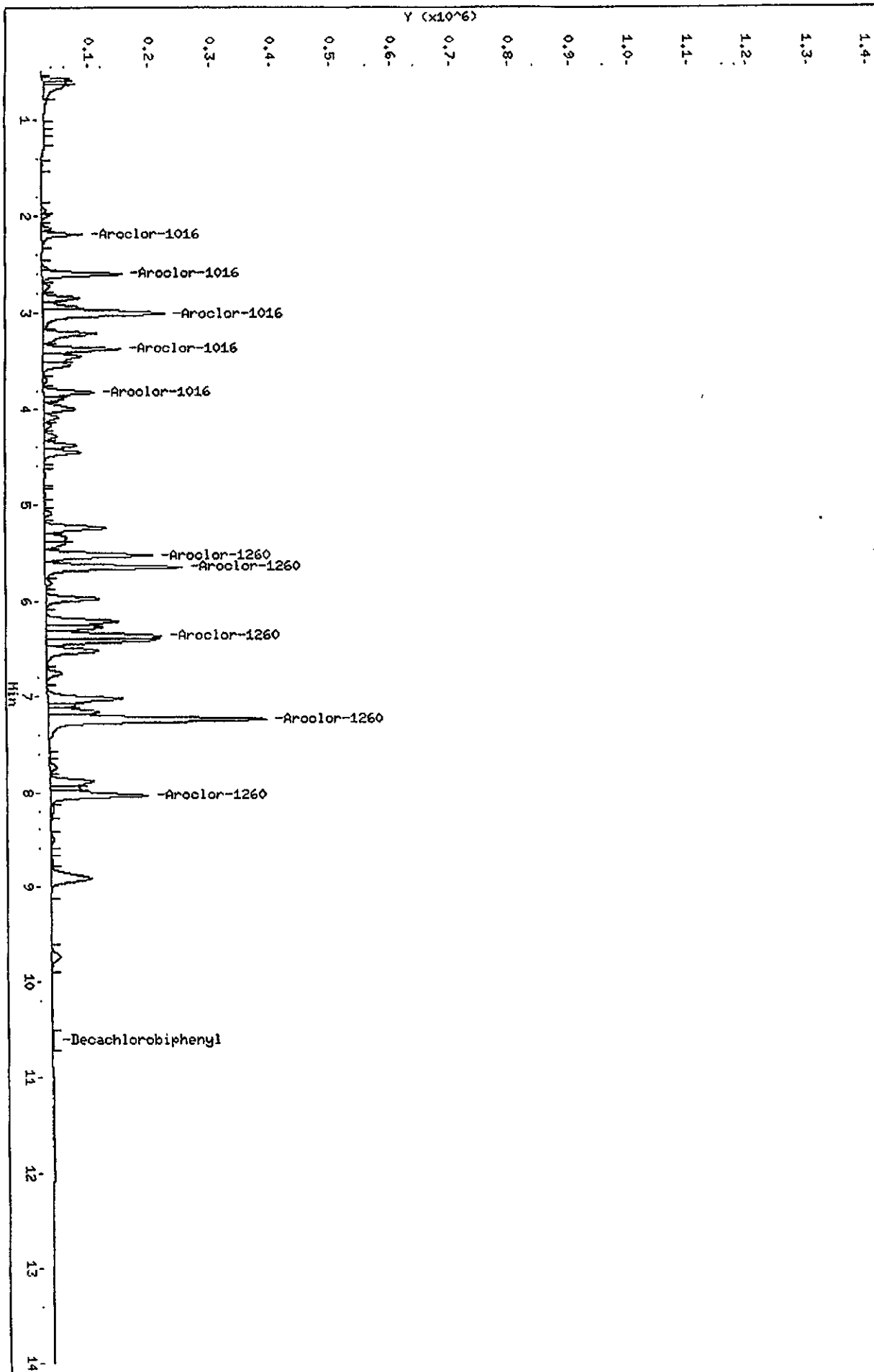
9.17-D

2nd
SOURCE

Data File: \\xp1tpa02\chem\g08.1\2191.b\H-820624.D
Date: 19-MAR-2001 16:00
Client ID:
Sample Info: 214660,2191.b
Column phase: DB608

Instrument: g08.1
Operator: 010139
Column diameter: 0.53

\\xp1tpa02\chem\g08.1\2191.b\H-820624.D



679 539

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20761.D
Lab Smp Id: M2154
Inj Date : 23-MAR-2001 10:43
Operator : 010139
Smp Info : M2154,2131.b
Misc Info : 190-111-7
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 23-Mar-2001 11:55 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.D
Continuing Calibration Sample
Compound Sublist: 2154.sub
Sample Matrix: None

AMOUNTS								
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO		
---	-----	-----	RESPONSE (ng)	(ng)	-----	-----	-----	-----
8 Aroclor-1221								
				CAS #	11104-28-2			
1.464	1.464	(0.000)	30576 0.50000	0.55476	0.00- 0.00	0.00	0.00	0.00
1.988	1.987	(0.001)	43814 0.50000	0.55003	116.57- 156.57	0.00	0.00	0.00
2.187	2.186	(0.001)	83909 0.50000	0.55240	66.04- 106.04	0.00	0.00	0.00
Average of Peak Amounts =				0.55239	10.59-D			

\$ 1 Tetrachloro-m-xylene				CAS #:	877-09-8			
1.677	1.680	(-0.003)	221807 0.02500	0.024504				

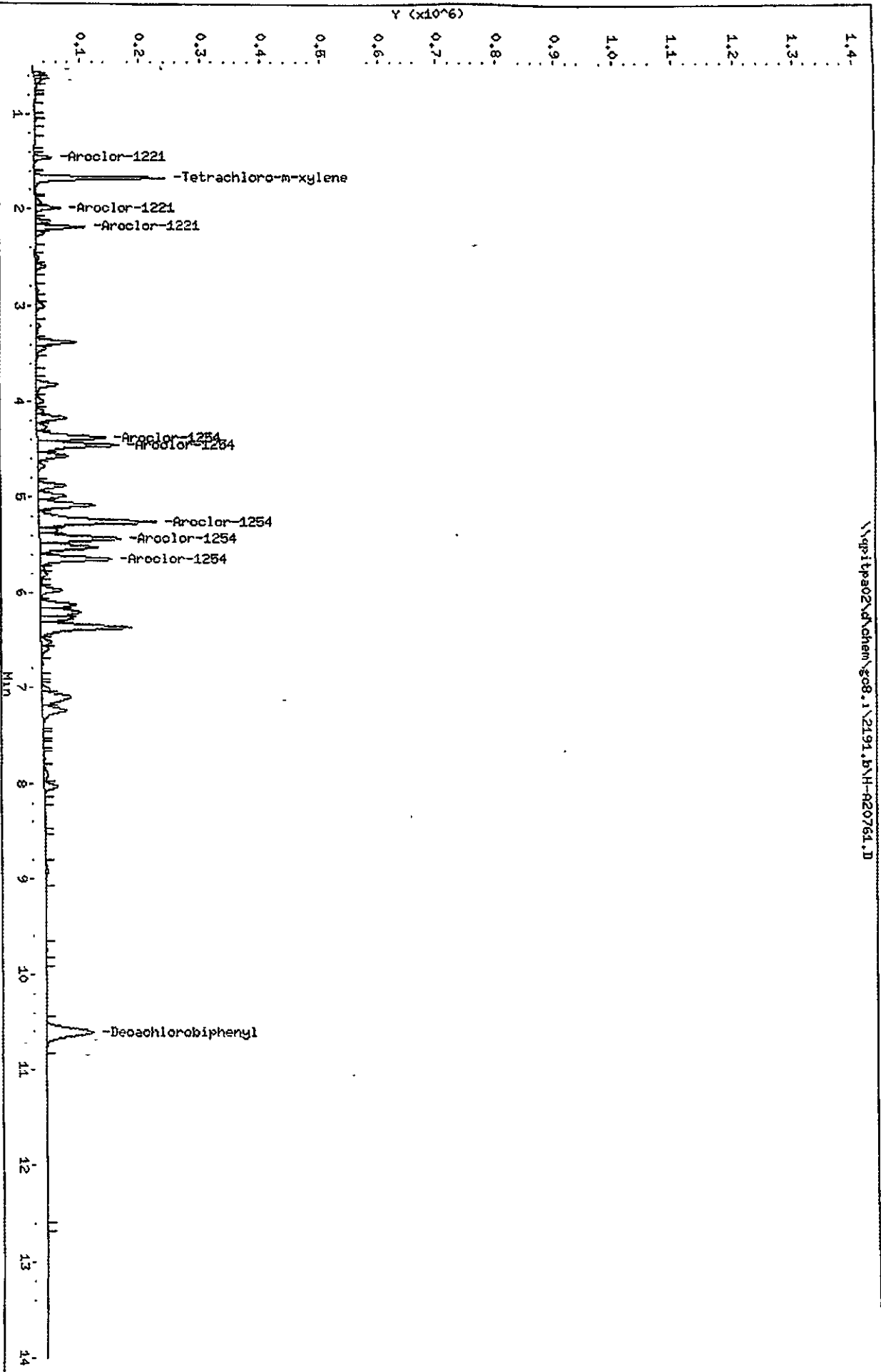
\$ 34 Decachlorobiphenyl				CAS #:	2051-24-3			
10.605	10.603	(0.002)	78048 0.02500	0.024761				

33 Aroclor-1254				CAS #:	11097-69-1			
4.377	4.374	(0.003)	114528 0.50000	0.54449	0.00- 0.00	0.00	0.00	0.00
4.453	4.451	(0.002)	136508 0.50000	0.53869	92.23- 132.23	0.00	0.00	0.00
5.253	5.250	(0.003)	199283 0.50000	0.53309	77.40- 117.40	0.00	0.00	0.00
5.431	5.429	(0.002)	137997 0.50000	0.53485	51.09- 91.09	0.00	0.00	0.00
5.646	5.646	(0.000)	121480 0.50000	0.51725	65.01- 105.01	0.00	0.00	0.00
Average of Peak Amounts =				0.53367	6.79-D			

CCAL

Data File: \\qpltpa02\chem\gc8.1\2191.b\H-A20761.D
Date: 23-MAR-2001 10:43
Client ID:
Sample Info: H2154,2131.b
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53



679 541

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20762.D
Lab Smp Id: M1232
Inj Date : 23-MAR-2001 11:03
Operator : 010139
Smp Info : M1232,2131.b
Misc Info : 190-111-8
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 23-Mar-2001 11:55 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061
Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.D
Continuing Calibration Sample
Compound Sublist: 1232.sub
Sample Matrix: None

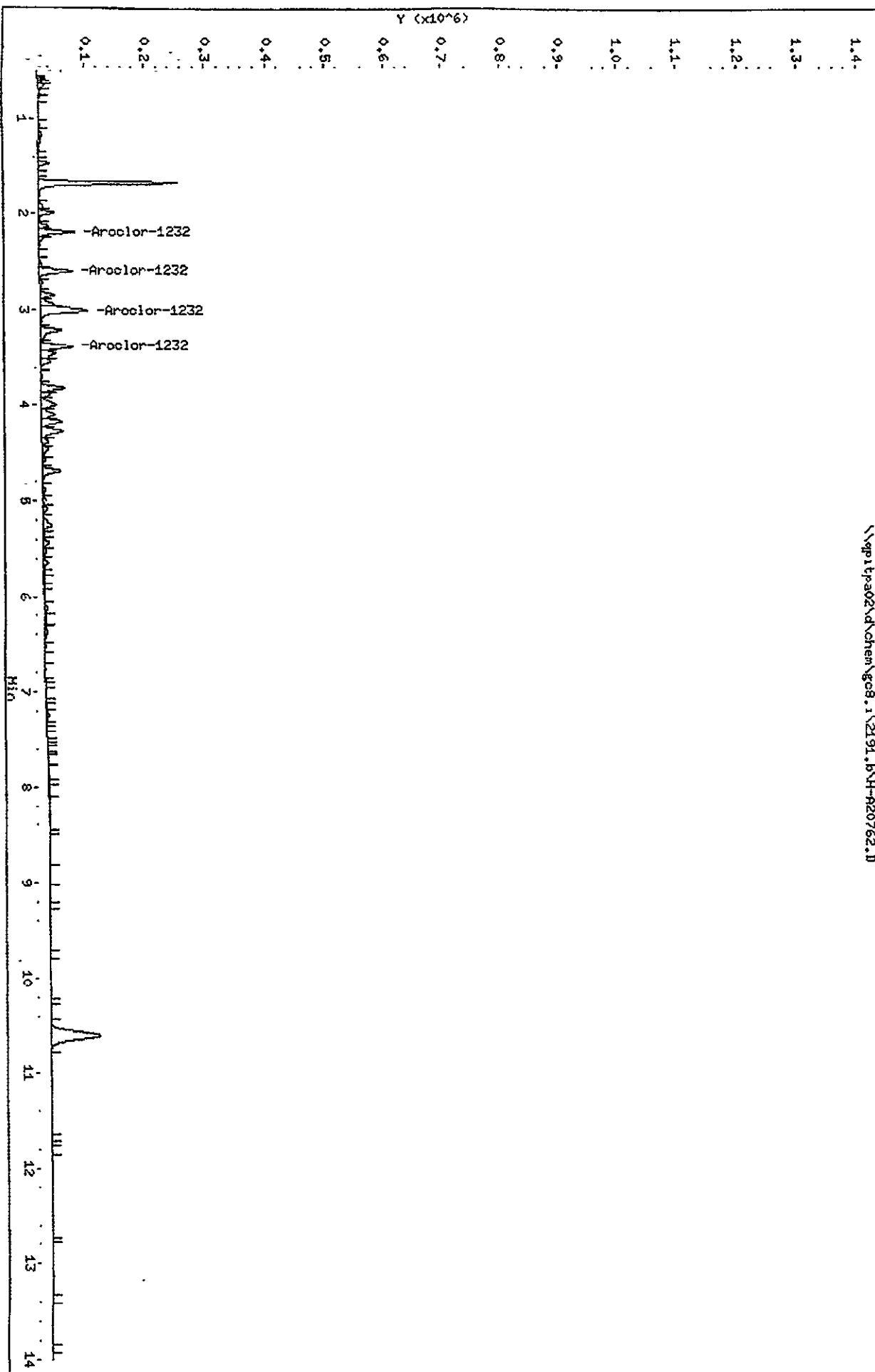
AMOUNTS								
RT	EXP RT	DLT RT	RESPONSE	(ng)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
..								
14 Aroclor-1232					CAS #	11141-16-5		
2 189	2 188	(0.001)	59720	0.50000	0.56105	0.00-	0.00	0.00
2 602	2.600	(0.002)	55121	0.50000	0.55247	146 26-	186.26	0.00
3 009	3.008	(0.001)	78435	0.50000	0.54787	65 99-	105.99	0.00
3 379	3 377	(0.002)	52608	0.50000	0.55326	74 18-	114.18	0.00
Average of Peak Amounts =					0.55366	1177.0		

10.77-D
CCAL

Data File: \\pp1tpa02\chem\gc8.1\2191.b\H-R20762.D
Date: 23-MAR-2001 11:03
Client ID:
Sample Info: H1232,2134.b
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc8.1\2191.b\H-R20762.D



679 543

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20763.D
Lab Smp Id: M1242
Inj Date : 23-MAR-2001 11:23
Operator : 010139
Smp Info : M1242,2131.b
Misc Info : 190-111-9
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 23-Mar-2001 11:55 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.D
Continuing Calibration Sample
Compound Sublist: 1242.sub
Sample Matrix: None

AMOUNTS						
		CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ng)	TARGET RANGE
..						
15 Aroclor-1242			CAS # 53469-21-9			
3.010	3.010	(0.000)	157213	0.50000	0.53883	0.00- 0.00 0.00
3.379	3.380	(-0.001)	96810	0.50000	0.53579	310.13- 350.13 0.00
3.818	3.818	(0.000)	70284	0.50000	0.52748	749.70- 789.70 0.00
4.268	4.269	(-0.001)	70800	0.50000	0.53876	512.48- 552.48 0.00
4.683	4.682	(0.001)	59645	0.50000	0.52737	314.30- 354.30 0.00
Average of Peak Amounts =			0.53365			

6.77-D
CCAL

Data File: \\ppltpa02\chem\gc8.1\2191.b\H-A20763.D

Date: 23-JUN-2001 11:23

Client ID:

Sample Info: H1242,2131.b

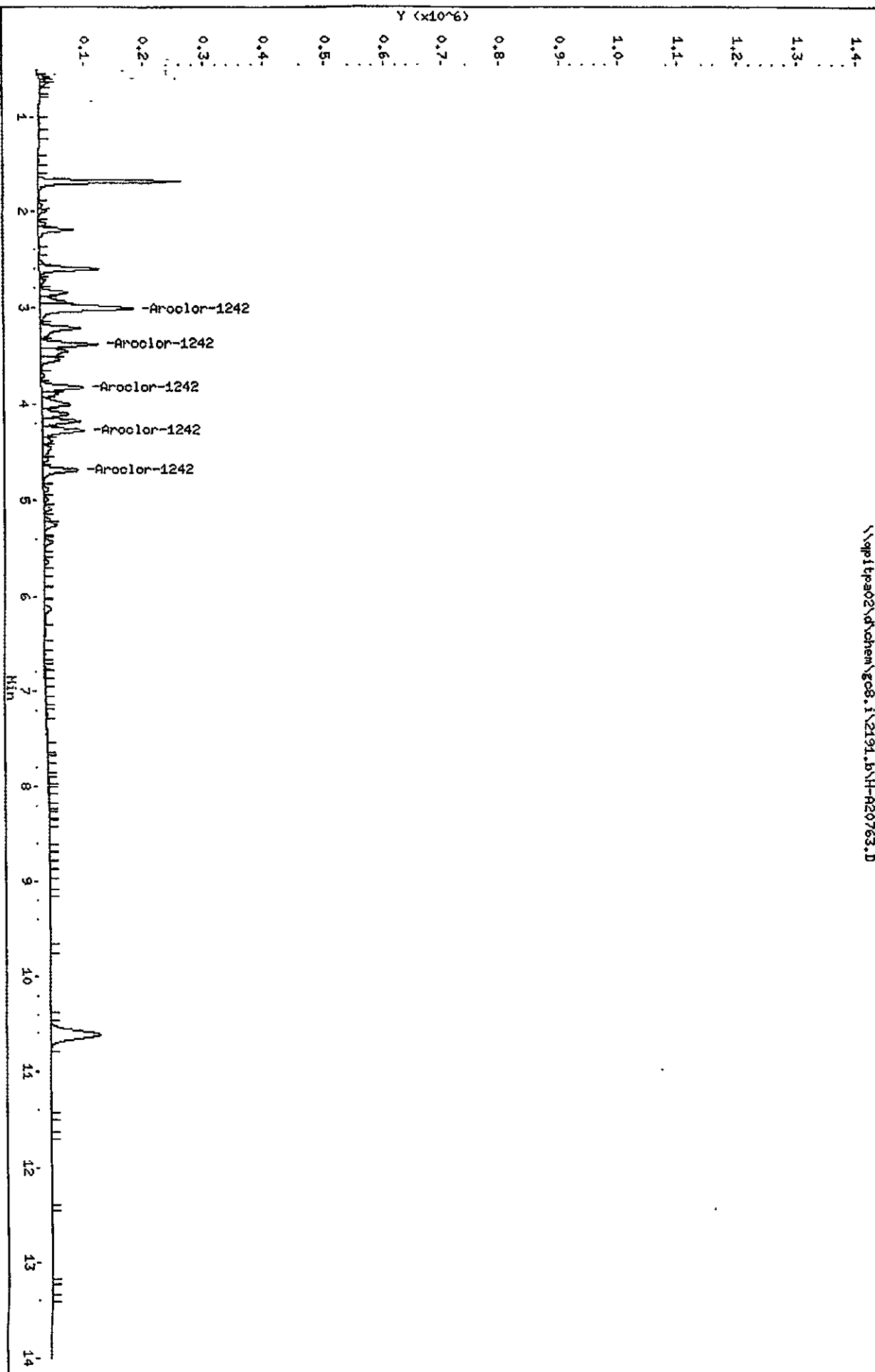
Column phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53

\\ppltpa02\chem\gc8.1\2191.b\H-A20763.D



679 545

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20764.D
Lab Smp Id: M1248
Inj Date : 23-MAR-2001 11:43
Operator : 010139
Smp Info : M1248,2131.b
Misc Info : 190-111-10
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 23-Mar-2001 12:40 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 5 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

AMOUNTS								
		CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE	RATIO
--	-----	-----	-----	-----	-----	-----	-----	-----
21 Aroclor-1248			CAS #: 12672-29-6					
3 379	3.380	(-0.001)	102578 0	50000	0.51874	0.00-	0.00	0 00
3 820	3.819	(0 001)	97060 0.50000		0.52131	114.57-	154.57	0 00
4 170	4.169	(0 001)	110250 0	50000	0 52170	63.67-	103 67	0.00
4.269	4.270	(-0 001)	102417 0.50000		0.52452	43 86-	83.86	0 00
4 685	4 685	(0 000)	102345 0.50000		0.53524	128.08-	168.08	0 00
Average of Peak Amounts =					0.5243	4.9700		

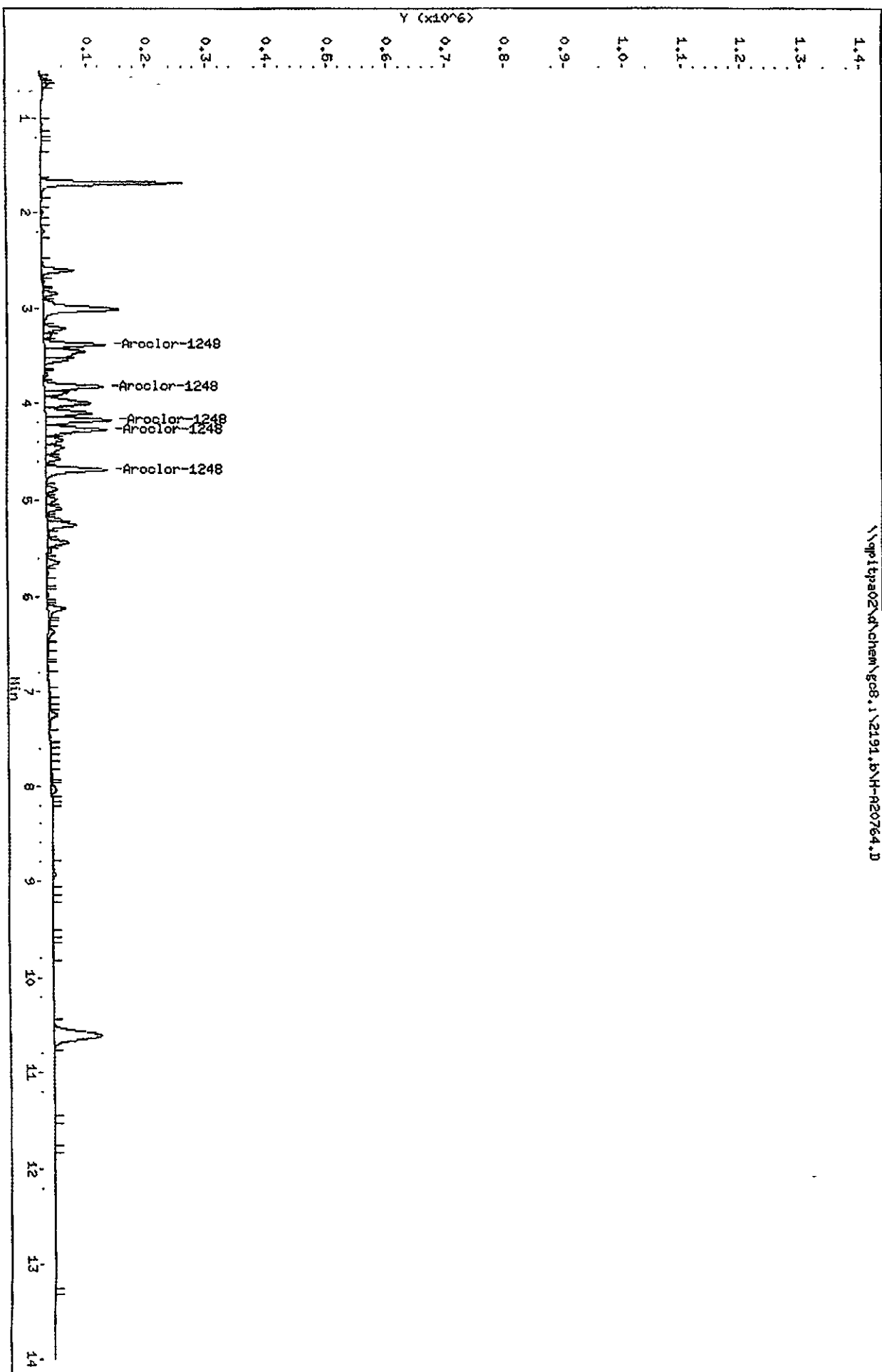
CCAL

Data File: \\pp1cpa02\chem\gc8.1\2191.b\H-R20764.D
Date: 23-Mar-2001 11:43
Client ID:
Sample Info: H4248,2131.b

Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\pp1cpa02\chem\gc8.1\2191.b\H-R20764.D



679 547

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc8.i\2191.b\H-A20765.D
 Lab Smp Id: M1660
 Inj Date : 23-MAR-2001 12:03
 Operator : 010139
 Smp Info : M1660,2191.b
 Misc Info : 190-111-13
 Comment : 8082 PCB ANALYSIS
 Method : \\gpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 23-Mar-2001 12:40 eppingerd
 Cal Date : 19-MAR-2001 14:21
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20619.D
 Continuing Calibration Sample
 Compound Sublist: 1660.sub
 Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO		
..									
20 Aroclor-1016					CAS # 12674-11-2				
2.189	2.190	(-0.001)	68573	0.50000	0.54993	0 00-	0.00	0.00	
2 602	2 602	(0.000)	131485	0.50000	0.53849	80.00-	120.00	0.00	
3.008	3.009	(-0 001)	203729	0.50000	0.53768	203.51-	243.51	0.00	
3 379	3.380	(-0 001)	124686	0.50000	0 52941	203.51-	243.51	0 00	
3.821	3.820	(0.001)	82443	0.50000	0.53211	297 56-	337 56	0.00	
Average of Peak Amounts =					0.53752				

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8				
1 679	1.680	(-0.001)	242577	0 02500	0.026799				

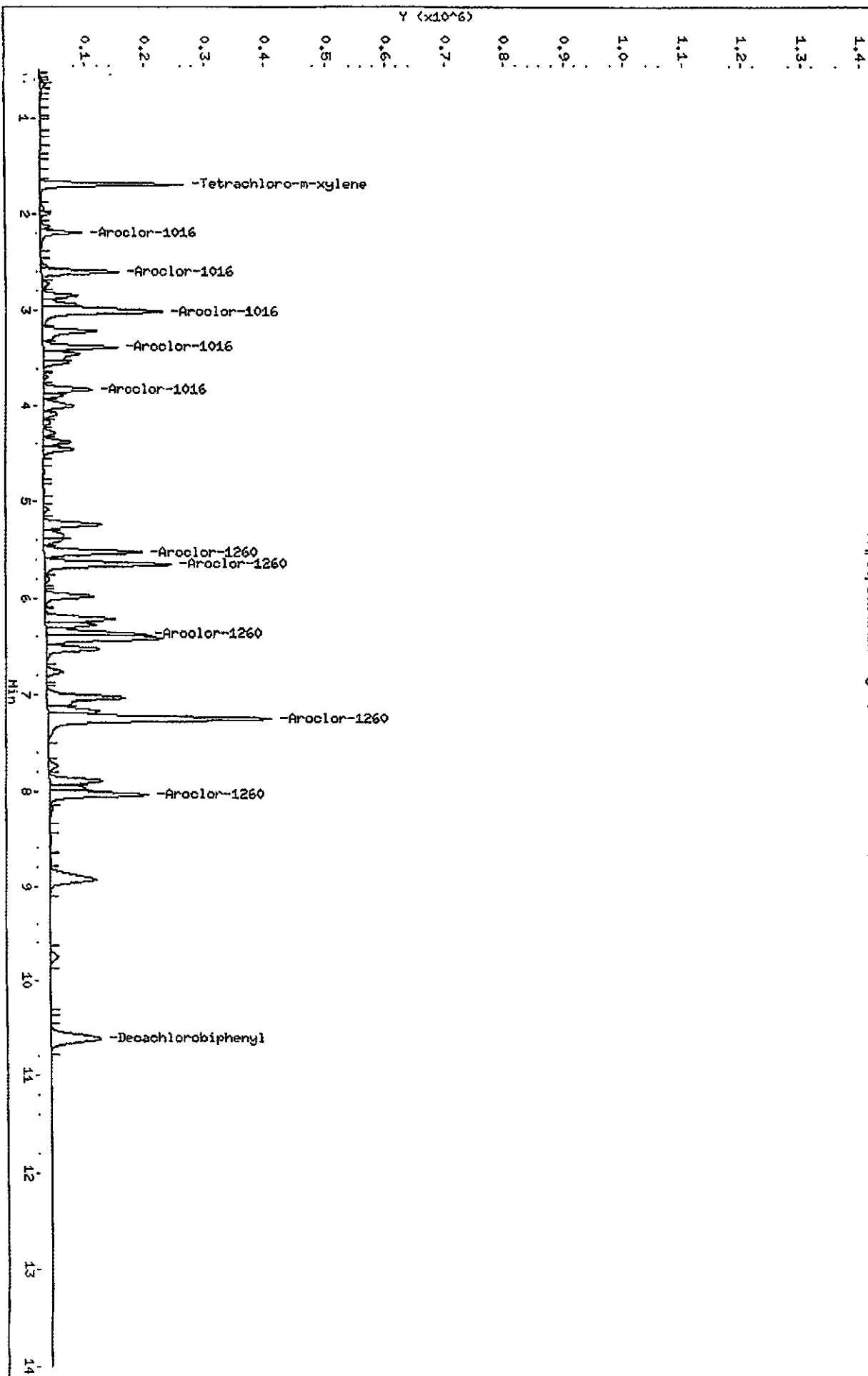
\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3				
10 610	10.603	(0.007)	83257	0.02500	0 026414				

36 Aroclor-1260					CAS #. 11096-82-5				
5.525	5.525	(0 000)	165473	0 50000	0 52519	0.00-	0.00	0 00	
5 650	5 650	(0.000)	213519	0.50000	0.53017	95 86-	135 86	0 00	
6 372	6.366	(0 006)	168708	0 50000	0.52874	116.91-	156.91	0 00	
7 244	7 240	(0 004)	376069	0.50000	0.51985	120 00-	160 00	0.00	
8.034	8 031	(0.003)	166436	0 50000	0.53208	108.33-	148 33	0 00	
Average of Peak Amounts =					0.52721				

Data File: \\pptpa02\chem\gc8.i\2191.b\H-A20765.D
Date: 23-MAR-2001 12:03
Client ID:
Sample Info: M1660,2191.b
Column phase: DB608

Instrument: gc8.i
Operator: 010139
Column diameter: 0.53

\\pptpa02\chem\gc8.i\2191.b\H-A20765.D



679 549

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20786.D
Lab Smp Id: M1660
Inj Date : 23-MAR-2001 18:59
Operator : 010139
Smp Info : M1660,2191.b
Misc Info : 190-111-13
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 26-Mar-2001 08:27 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 27
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.D
Continuing Calibration Sample
Compound Sublist: 1660.sub
Sample Matrix: None

AMOUNTS							
		CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RT	RESPONSE (ng)	(ng)	TARGET RANGE	RATIO
..	*****	*****		*****	*****	*****	*****
20 Aroclor-1016				CAS #. 12674-11-2			
2 190	2 190	(0.000)		70492 0 50000	0.56532	0.00- 0 00	0 00(M)
2 602	2.602	(0 000)		137413 0 50000	0 56277	80.00- 120.00	0.00
3 008	3 009	(-0.001)		213420 0.50000	0 56325	203 51- 243 51	0.00
3 381	3 380	(0.001)		131279 0 50000	0 55741	203.51- 243 51	0.00
3 820	3 820	(0 000)		86742 0 50000	0.55986	297.56- 337 56	0.00
Average of Peak Amounts =				0.56172			

\$ 1 Tetrachloro-m-xylene				CAS # 877-09-8			
1 680	1.680	(0 000)		250449 0 02500	0.027668		

\$ 34 Decachlorobiphenyl				CAS # 2051-24-3			
10.605	10 603	(0.002)		88564 0.02500	0 028098		

36 Aroclor-1260				CAS #: 11096-82-5			
5 526	5 525	(0.001)		175930 0 50000	0.55838	0.00- 0 00	0.00(M)
5 650	5 650	(0 000)		222841 0.50000	0 55332	95 86- 135 86	0 00
6 371	6 366	(0.005)		179608 0 50000	0.56290	116.91- 156.91	0 00
7 246	7 240	(0 006)		408111 0.50000	0 56415	120 00- 160.00	0 00
8 035	8 031	(0 004)		175556 0.50000	0.56124	108 33- 148.33	0 00
Average of Peak Amounts =				0 56			

Data File: \\gpitpa02\d\chem\gc8.i\2191.b\H-A20786.D
Report Date: 26-Mar-2001 08:27

Page 2

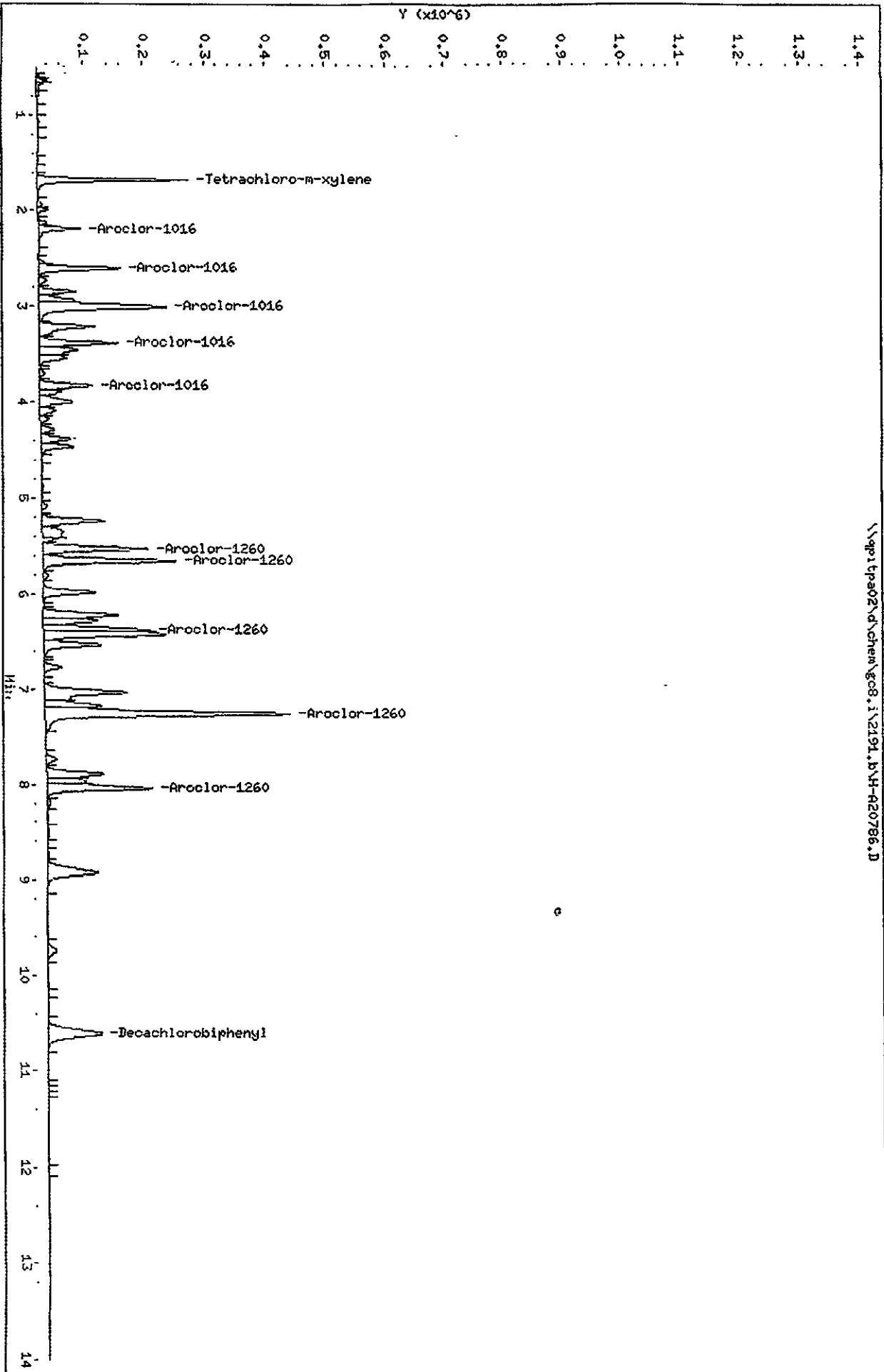
679 550

QC Flag Legend

M - Compound response manually integrated.

Data File: \\pp1tpa02\chem\gc8.1\2191.b\H-A20786.D
Date: 23-MAR-2001 18:59
Client ID:
Sample Info: M1660,2191.b
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53



Data File Name: H-A20786.D

Inj. Date and Time: 23-MAR-2001 18:59

Instrument ID: gc8.1

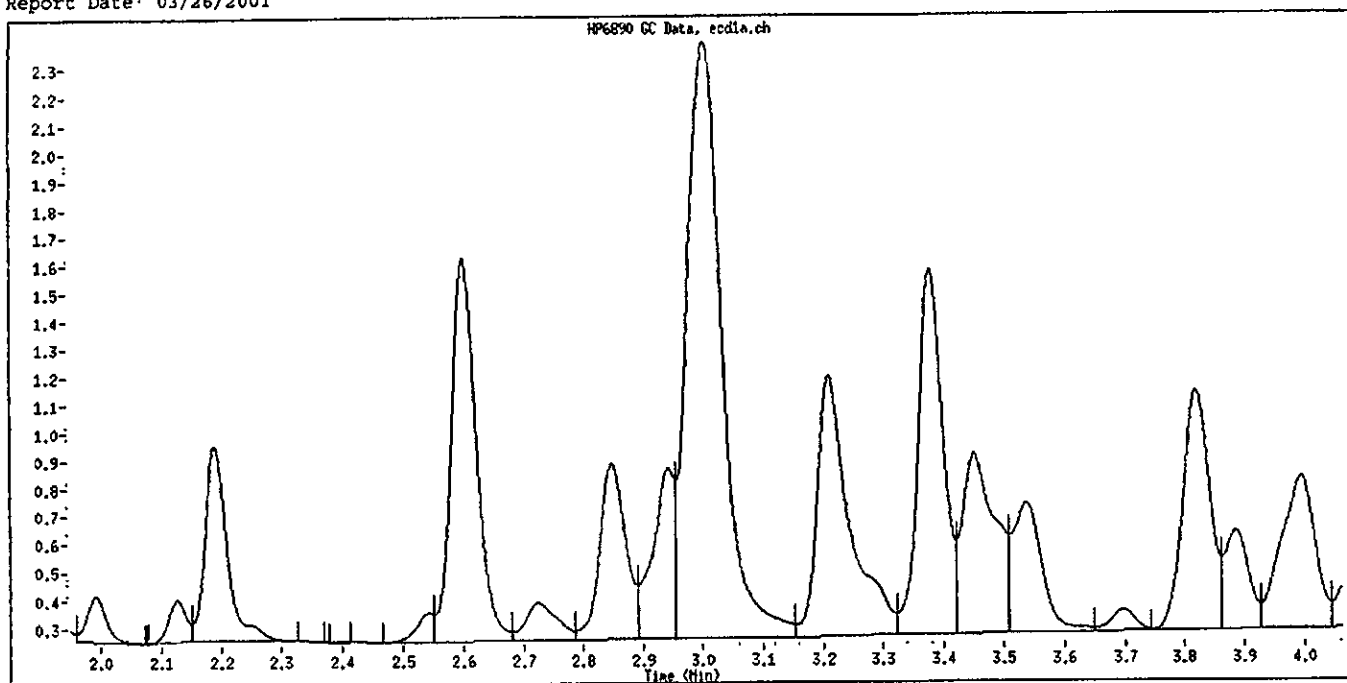
Client ID:

Compound Name Aroclor-1016

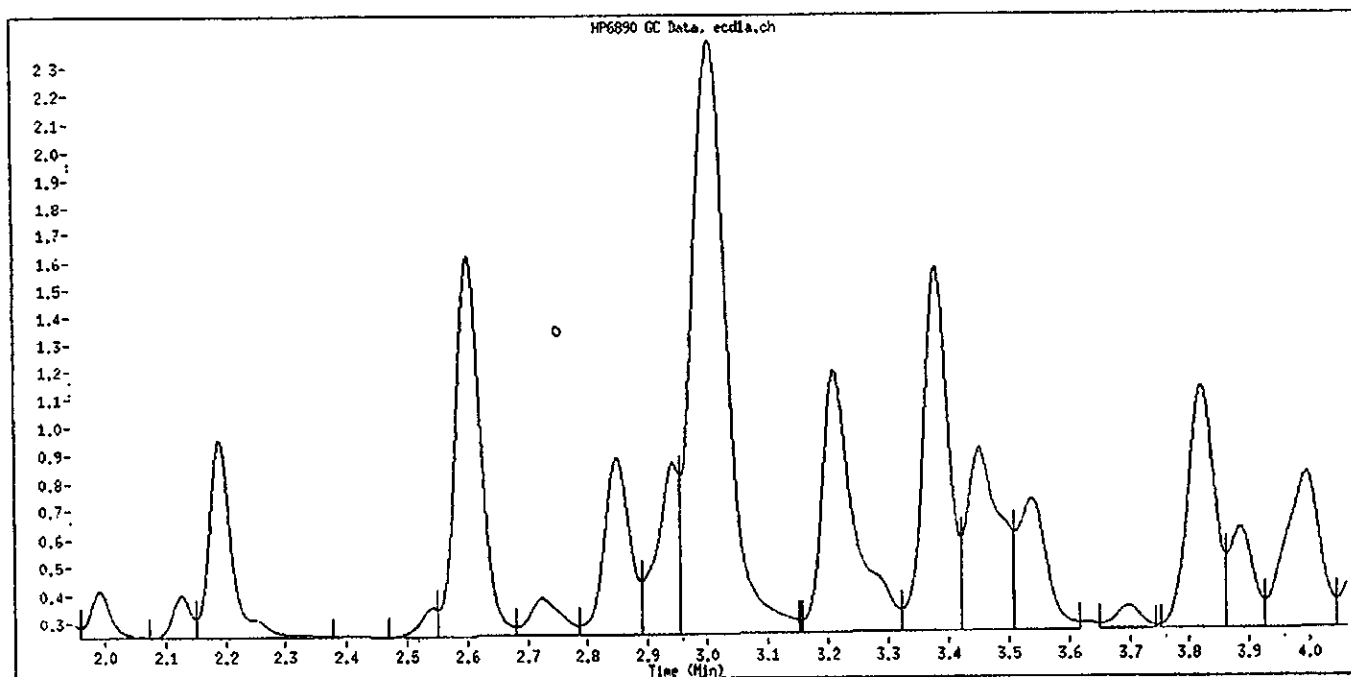
CAS # 12674-11-2

Report Date: 03/26/2001

679 552



Original Integration



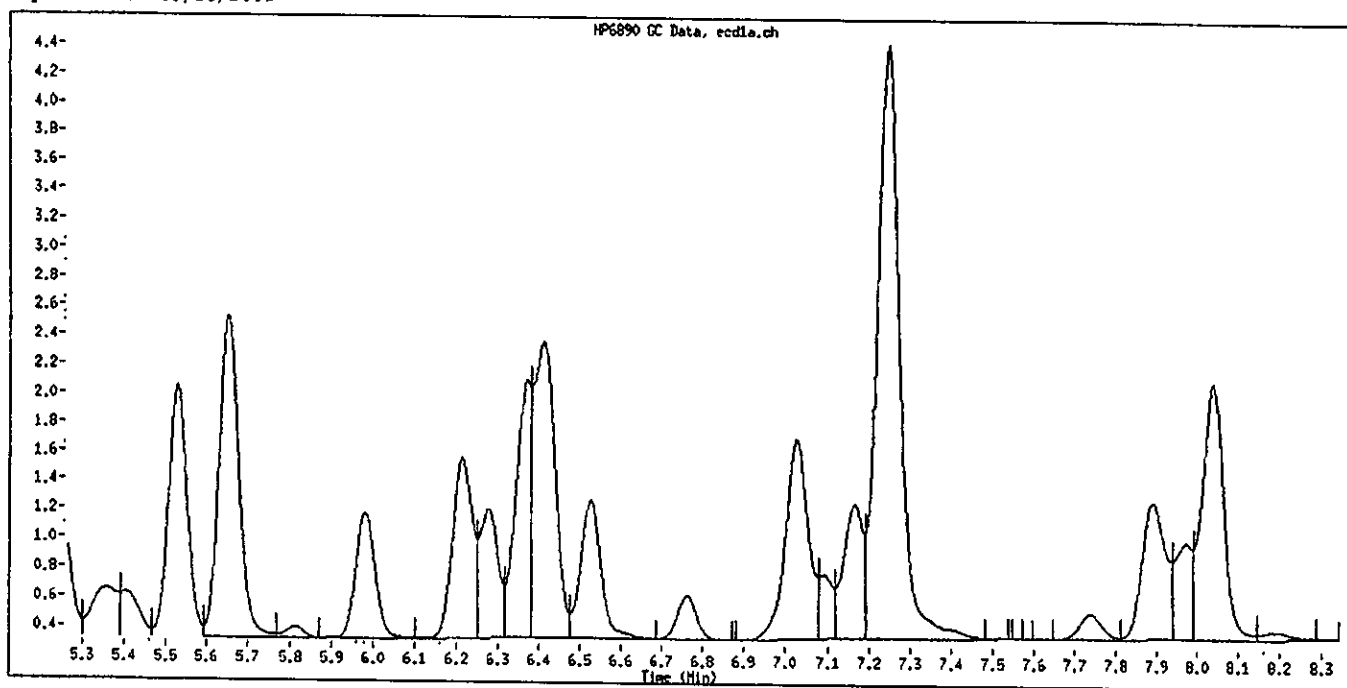
Manual Integration

Manually Integrated By EppingerD

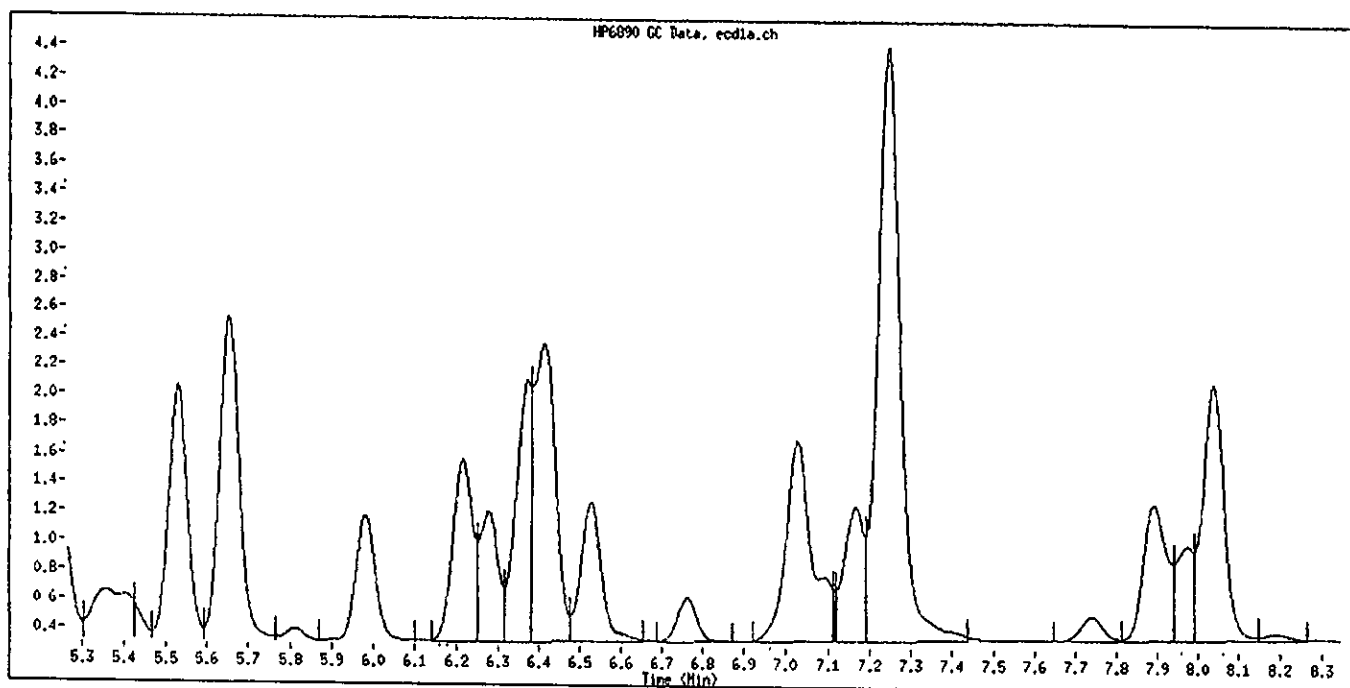
Manual Integration Reason Poor Chromatography

Data File Name H-A20786 D
Inj Date and Time 23-MAR-2001 18.59
Instrument ID gc8 1
Client ID
Compound Name Aroclor-1260
CAS #. 11096-82-5
Report Date. 03/26/2001

679 553



Original Integration



Manual Integration

Manually Integrated By EppingerD
Manual Integration Reason Poor Chromatography

679 554

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20807.D
Lab Smp Id: M1660
Inj Date : 24-MAR-2001 01:56
Operator : 010139
Smp Info : M1660,2191.b
Misc Info : 190-111-13
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 26-Mar-2001 08:39 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 48 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

AMOUNTS							
		CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ng)	(ng)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	
20 Aroclor-1016				CAS # 12674-11-2			
2 189	2 190	(-0 001)	73630 0 50000	0.59048	0.00- 0.00	0.00(M)	
2 604	2.602	(0 002)	139186 0.50000	0.57003	80.00- 120.00	0 00	
3 010	3 009	(0 001)	219631 0.50000	0.57964	203 51- 243 51	0.00	
3 380	3 380	(0 000)	134036 0.50000	0.56911	203 51- 243 51	0.00	
3.821	3 820	(0 001)	88526 0 50000	0.57138	297.56- 337 56	0.00	
Average of Peak Amounts =				0.57613			

\$ 1 Tetrachloro-m-xylene				CAS # 877-09-8			
1 679	1 680	(-0.001)	258783 0 02500	0.028589			

\$ 34 Decachlorobiphenyl				CAS #: 2051-24-3			
10.612	10.603	(0.009)	91288 0 02500	0.028962			

36 Aroclor-1260				CAS # 11096-82-5			
5 527	5.525	(0 002)	177101 0 50000	0.56209	0.00- 0.00	0.00(M)	
5.651	5 650	(0 001)	230467 0 50000	0.57226	95 86- 135.86	0.00	
6.374	6 366	(0 008)	182829 0.50000	0.57300	116 91- 156 91	0.00	
7 243	7.240	(0 003)	414752 0.50000	0.57333	120 00- 160.00	0.00	
8 036	8 031	(0 005)	183995 0.50000	0.58822	108 33- 148 33	0 00	
Average of Peak Amounts =				0.57378			

679 555

QC Flag Legend

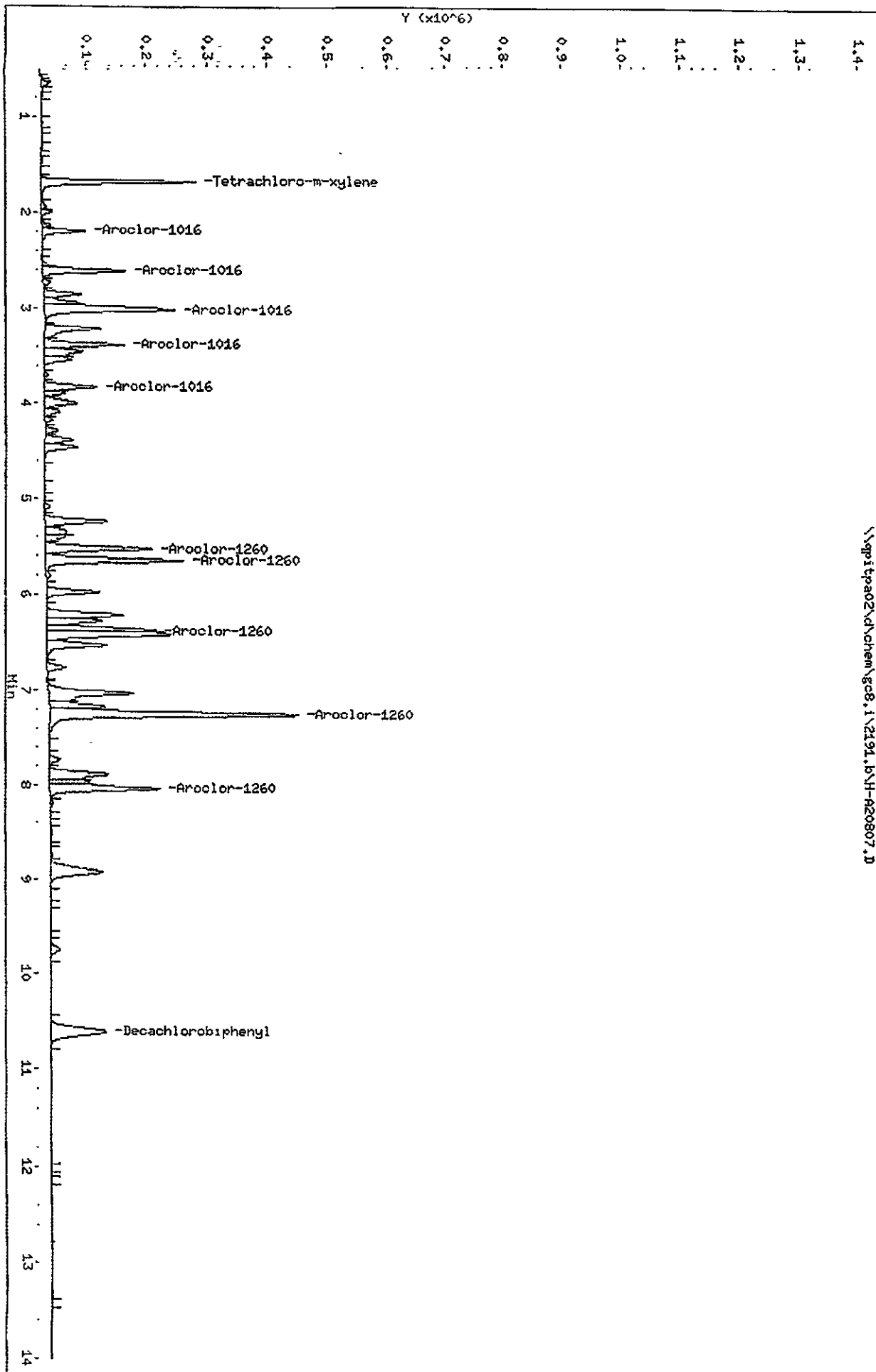
M - Compound response manually integrated.

Data File: \\pittpa02\chem\gc8.1\2191.b\H-A20807.D
Date: 24-Mar-2001 01:56
Client ID:
Sample Info: M1660,2191.b

Column phase: DB608

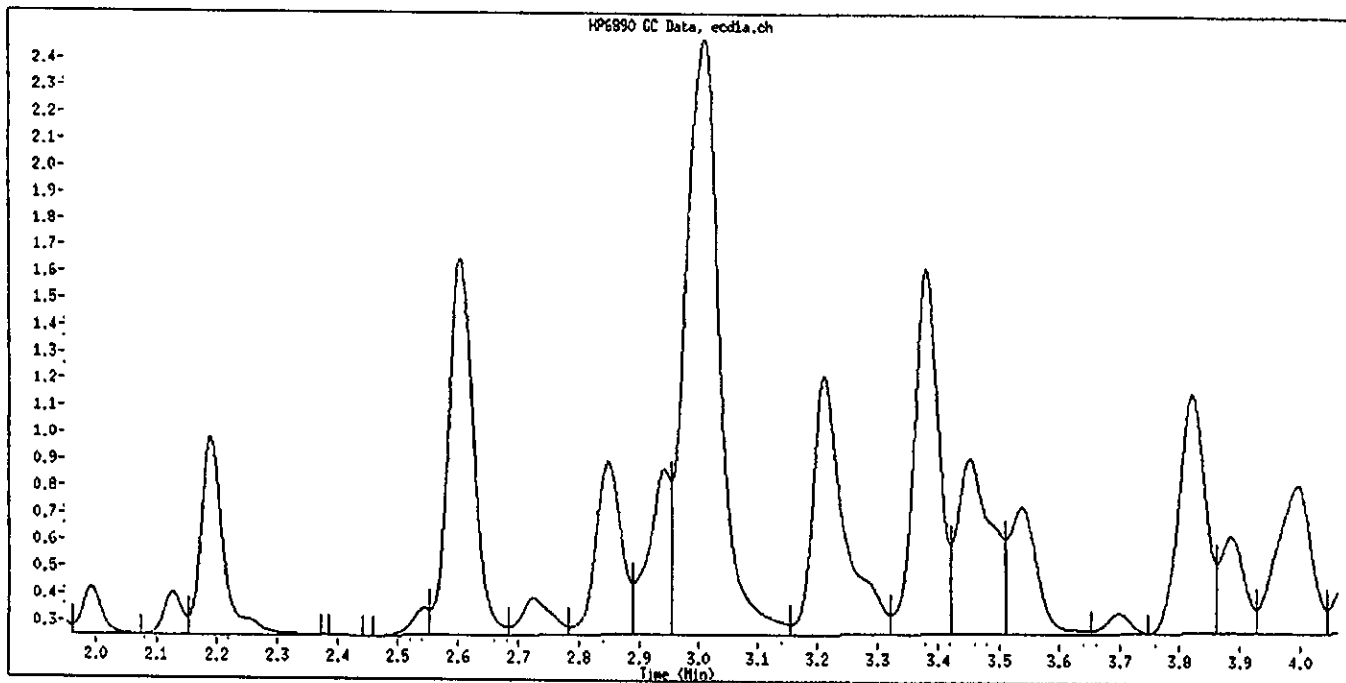
Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\pittpa02\chem\gc8.1\2191.b\H-A20807.D

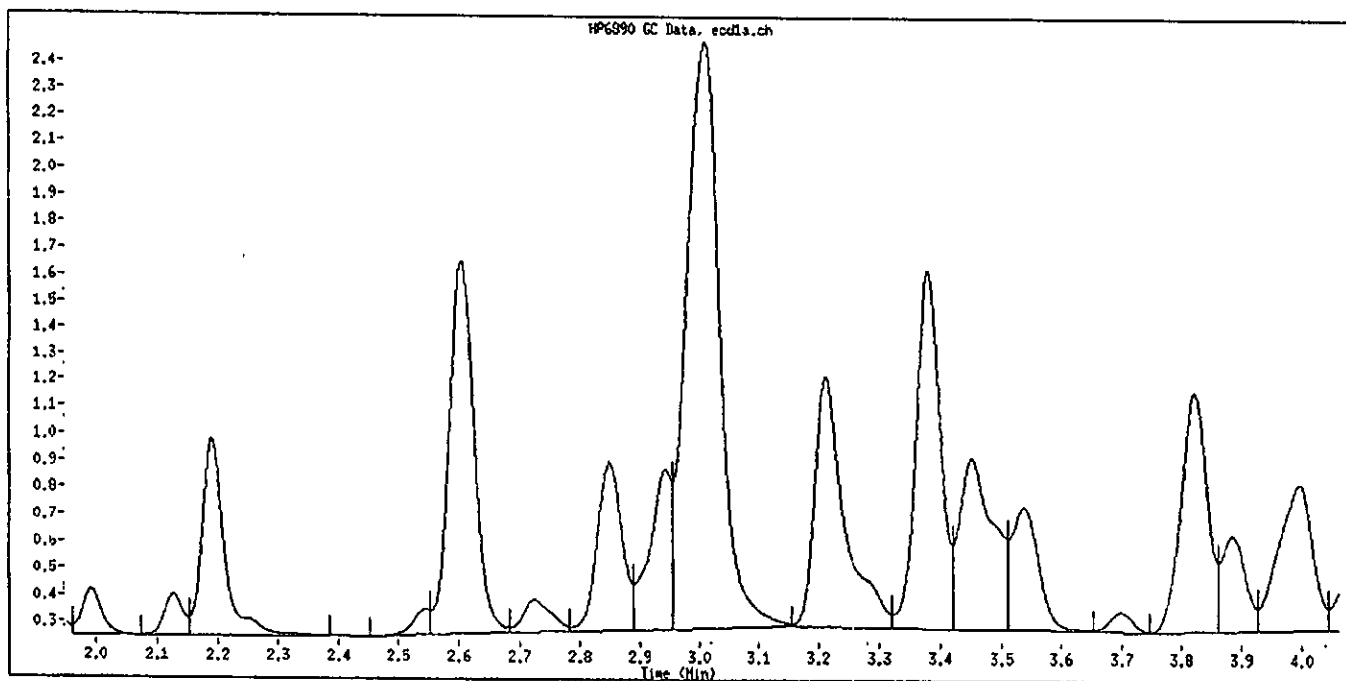


Data File Name: H-A20807.D
Inj Date and Time 24-MAR-2001 01:56
Instrument ID: gc8 1
Client ID
Compound Name Aroclor-1016
CAS # 12674-11-2
Report Date 03/26/2001

679 557



Original Integration

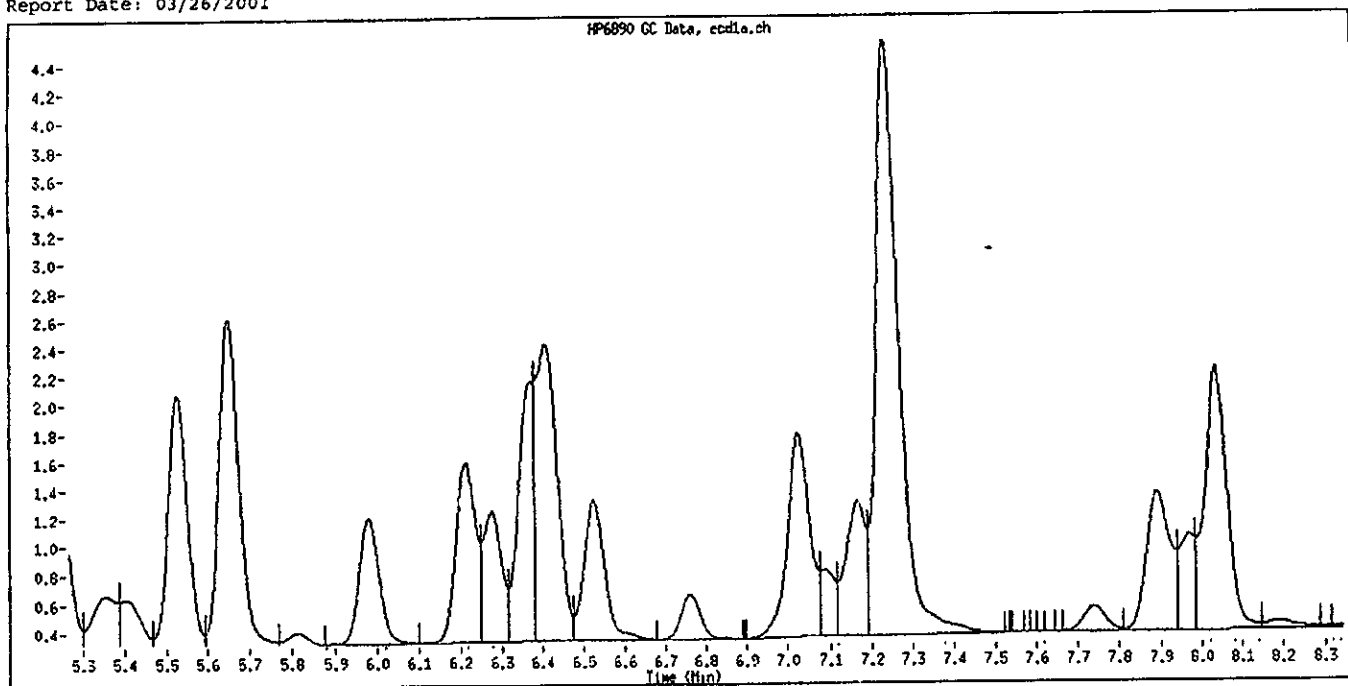


Manual Integration

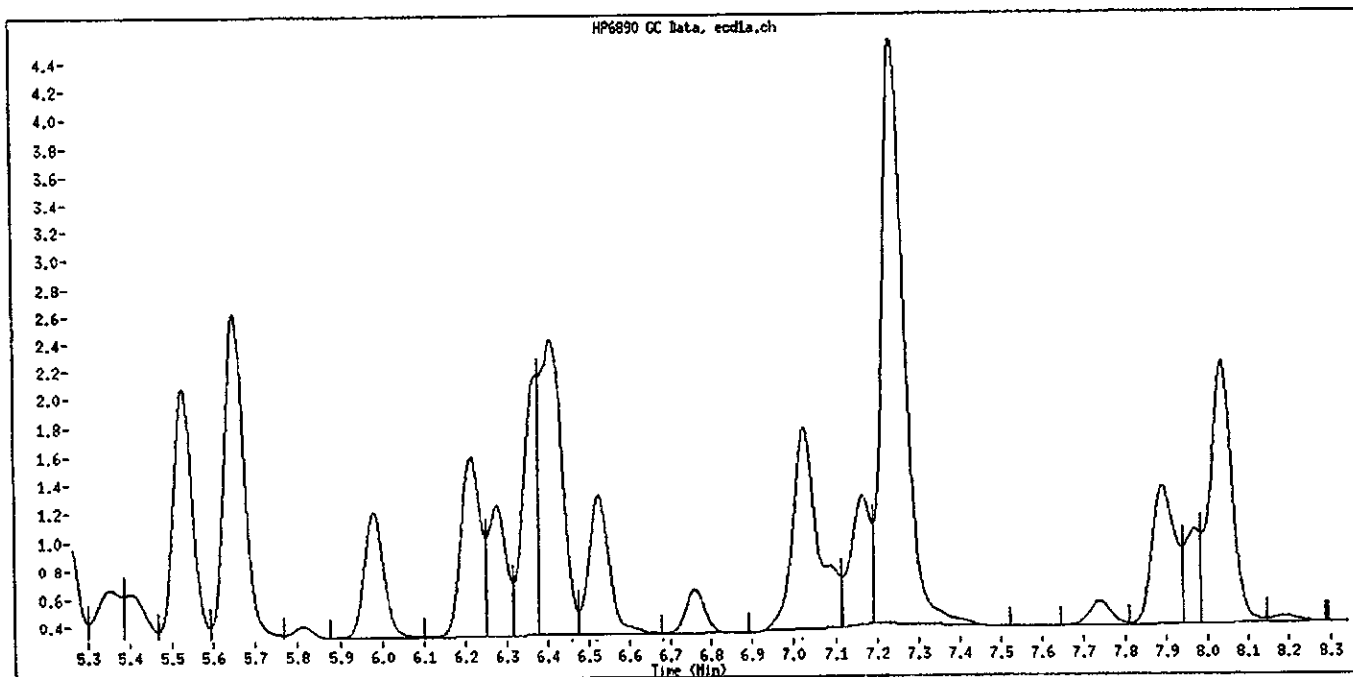
Manually Integrated By EppingerD
Manual Integration Reason: Poor Chromatography

Data File Name: H-A20807 D
Inj Date and Time 24-MAR-2001 01.56
Instrument ID gc8 1
Client ID
Compound Name Aroclor-1260
CAS # 11096-82-5
Report Date: 03/26/2001

679 558



Original Integration



Manual Integration

Manually Integrated By EppingerD
Manual Integration Reason Poor Chromatography

679 559

PCB
QC DATA

679 560

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER
Method: SW846 8082
PCBs (8082)

Lab Sample ID: C1C220000 500

Sample WT/Vol: 1000 / mL
Work Order: DXTL21AA
Dilution factor: 1

Date Received: 03/21/01
Date Extracted: 03/22/01
Date Analyzed: 03/24/01

QC Batch: 1081500

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	1.0	U
11141-16-5	Aroclor 1232	1.0	U
53469-21-9	Aroclor 1242	1.0	U
12672-29-6	Aroclor 1248	1.0	U
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	U

679 561

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20804.D
Lab Smp Id: DXTL21AA Client Smp ID: PBLK1500
Inj Date : 24-MAR-2001 00:56
Operator : 010139 Inst ID: gc8.i
Smp Info : DXTL21AA,2191.b
Misc Info : 210184BLK
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 26-Mar-2001 08:39 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 45 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PITPC061

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

CONCENTRATIONS						
			ON-COL	FINAL		
RT	EXP RT	DLT RT	RESPONSE (ng)	(ug/L)	TARGET RANGE	RATIO
..						
\$ 1	Tetrachloro-m-xylene		CAS #. 877-09-8			
1.680	1.680	(0 000)	151704	0.01676	0.16760	

8 Aroclor-1221 CAS #. 11104-28-2

Qualifier signal(s) failed ratio test.

14 Aroclor-1232 CAS # 11141-16-5

Peaks not detected for Quant or Qual signal(s)

679 562

Data File: \\gpitpa02\d\chem\gc8.i\2191.b\H-A20804.D
Report Date: 26-Mar-2001 09:44

Page 2

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE (ng)	(ug/L)	=====	=====
15			Aroclor-1242		CAS #: 53469-21-9	
Peaks not detected for Quant. or Qual. signal(s).						

20			Aroclor-1016		CAS # 12674-11-2	
Peaks not detected for Quant. or Qual signal(s).						

21			Aroclor-1248		CAS #: 12672-29-6	
Peaks not detected for Quant or Qual signal(s).						

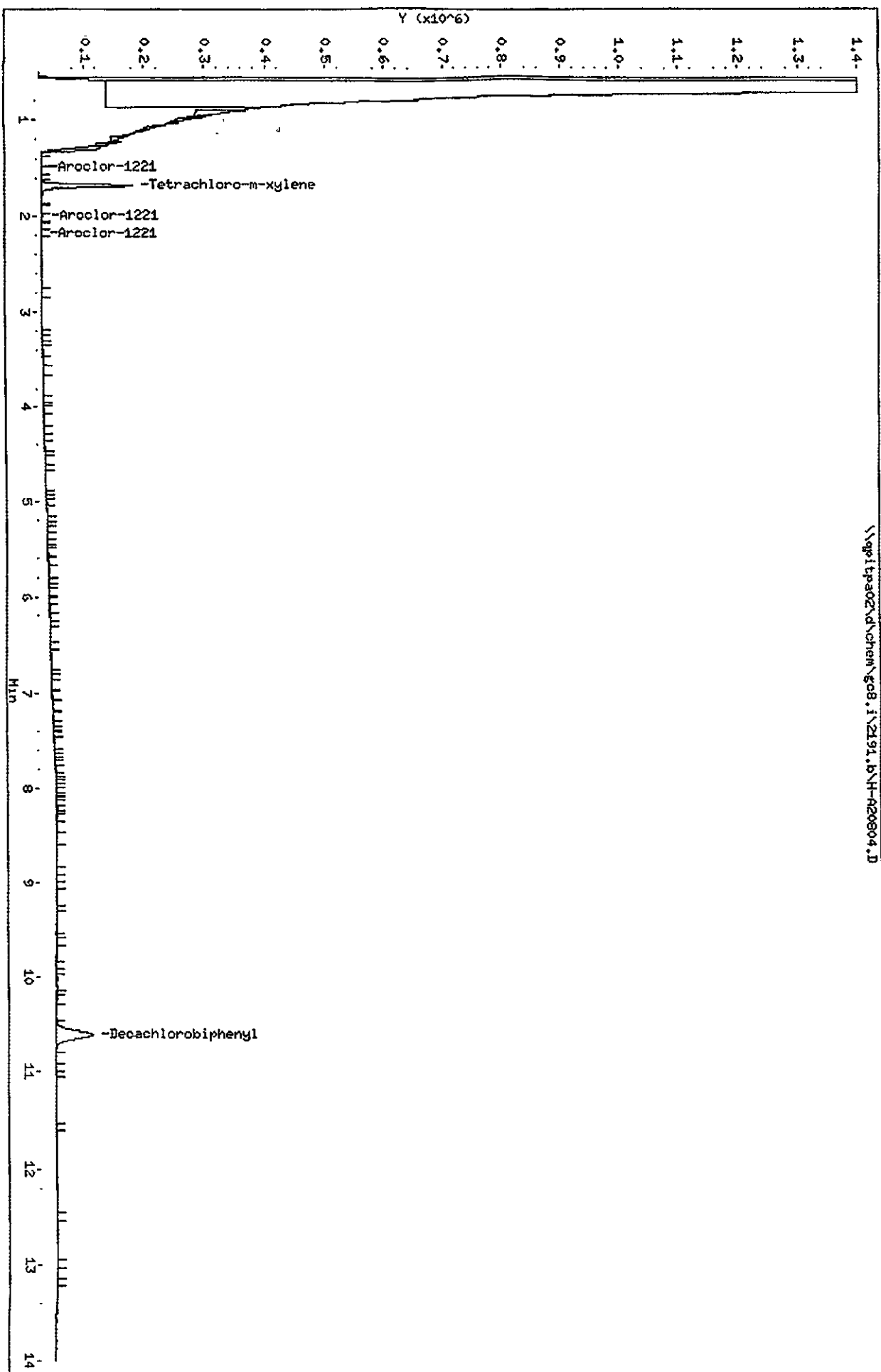
33			Aroclor-1254		CAS #: 11097-69-1	
Peaks not detected for Quant or Qual signal(s).						

\$ 34			Decachlorobiphenyl		CAS #: 2051-24-3	
10 610	10 603	(0 007)	61602	0.01954	0 19544	

36			Aroclor-1260		CAS # 11096-82-5	
Peaks not detected for Quant. or Qual. signal(s).						

Data File: \\gpi1p302\chem\gc8.i\2191.b\H-A20804.D
Date: 24-Mar-2001 00:56
Client ID: PBLK1500
Sample Info: DMTL2191,2191.b
Volume Injected (uL): 1.0
Column Phase: DB608

Instrument: gc8.i
Operator: 010139
Column diameter: 0.53



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER
Method: SW846 8082
PCBs (8082)

Lab Sample ID: C1C220000 500

Sample WT/Vol: 1000 / mL
Work Order: DXTL21AC
Dilution factor: 1Date Received: 03/21/01
Date Extracted: 03/22/01
Date Analyzed: 03/24/01

QC Batch: 1081500

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	8.52	
11096-82-5	Aroclor 1260	9.25	

679 565

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20805.D
Lab Smp Id: DXTL21AC Client Smp ID: LCS1500
Inj Date : 24-MAR-2001 01:16
Operator : 010139 Inst ID: gc8.i
Smp Info : DXTL21AC,2191.b
Misc Info : 210184LCS
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 26-Mar-2001 08:39 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 46 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PITPC061

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL RESPONSE (ng)	FINAL (ug/L)	TARGET RANGE	RATIO

20	Aroclor-1016			CAS #: 12674-11-2		
2.189	2 190	(-0 001)	104927 0 84147	8 4147	0.00- 0 00	0.00
2.603	2 602	(0 001)	203794 0.83463	8.3463	80.00- 120.00	0.00
3.011	3 009	(0 002)	328764 0.86767	8.6766	203.51- 243.51	0.00
3.381	3 380	(0 001)	202659 0 86048	8.6048	203.51- 243 51	0.00
3 820	3.820	(0.000)	132480 0.85507	8.5507	297.56- 337.56	0.00
Average of Peak Concentrations =				8.5186		

\$ 1 Tetrachloro-m-xylene			CAS # 877 09-8			
1.680	1.680	(0 000)	153695 0 01698	0.16980		
\$ 34 Decachlorobiphenyl			CAS #: 2051 24-3			
10 609	10 603	(0.006)	61619 0.01955	0.19549		

679 566

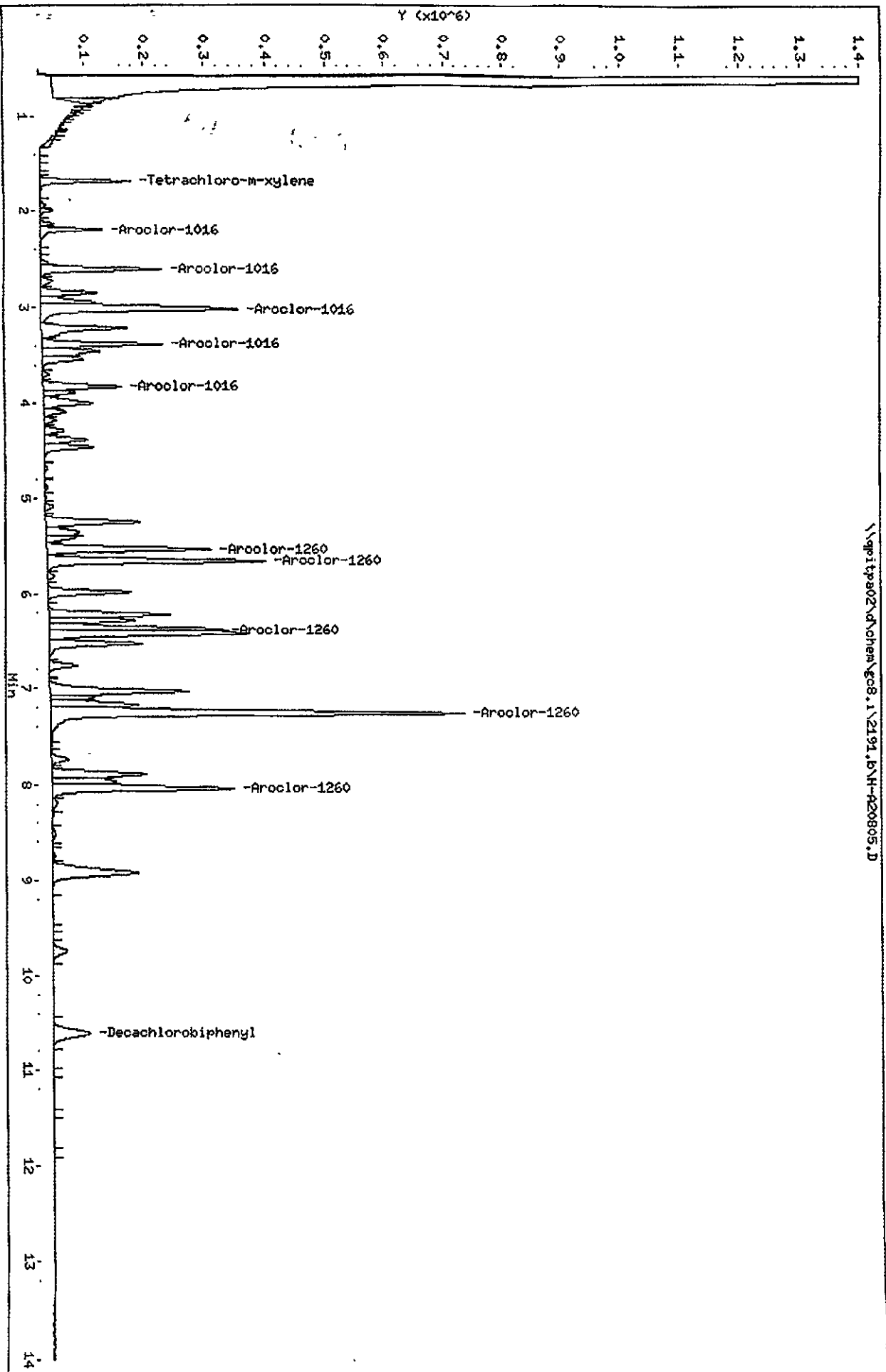
Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20805.D
Report Date: 26-Mar-2001 09:44

Page 2

CONCENTRATIONS								
			ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE (ng)		(ug/L)		TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
36 Aroclor-1260					CAS #: 11096-82-5			
5.527	5 525	(0.002)	275855	0 87552	8 7552	0 00-	0.00	0 00
5.652	5 650	(0 002)	365789	0 90827	9.0826	95.86-	135.86	0.00
6 374	6 366	(0 008)	290518	0.91051	9.1051	116 91-	156.91	0.00
7 243	7.240	(0 003)	696162	0.96233	9.6233	120.00-	160 00	0.00
8 037	8.031	(0.006)	303651	0 97075	9 7075	108.33-	148.33	0 00
Average of Peak Concentrations =					9.2547			

Data File: \\pp1tpa02\chem\gc8.i\2191.b\H-A20805.D
Date: 24-Mar-2004 01:16
Client ID: LCS4500
Sample Info: DXIL219C,2191.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53



UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

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

Matrix: (soil/water) WATER
Method: SW846 8082
PCBs (8082)

Lab Sample ID: C1C220000 500

Sample WT/Vol: 1000 / mL
Work Order: DXTL21AD
Dilution factor: 1Date Received: 03/21/01
Date Extracted: 03/22/01
Date Analyzed: 03/24/01

QC Batch: 1081500

Client Sample Id: DUPLICATE CHECK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	7.85	
11096-82-5	Aroclor 1260	9.50	

679 569

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20806.D
 Lab Smp Id: DXTL21AD Client Smp ID: LCD1500
 Inj Date : 24-MAR-2001 01:36
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DXTL21AD,2191.b
 Misc Info : 210184LCD
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 26-Mar-2001 08:39 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
 Als bottle: 47 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1660.sub
 Target Version: 4.04 Sample Matrix: WATER
 Processing Host: PITPC061

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

CONCENTRATIONS							
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO	
---	-----	-----	RESPONSE (ng)	(ug/L)	-----	-----	-----
20 Aroclor-1016 CAS #. 12674-11-2							
2 190	2.190	(0.000)	95458 0 76553	7 6553	0 00- 0 00	0.00	
2 602	2.602	(0.000)	184861 0 75709	7 5709	80 00- 120 00	0.00	
3 010	3 009	(0.001)	301803 0 79651	7 9651	203 51- 243.51	0.00	
3.379	3 380	(-0.001)	187691 0 79693	7 9693	203.51- 243.51	0.00	
3 821	3.820	(0.001)	125147 0 80774	8.0774	297 56- 337.56	0.00	
Average of Peak Concentrations =				7 8476			

\$ 1 Tetrachloro-m-xylene CAS # 877-09-8							
1 680	1 680	(0.000)	139525 0.01541	0.15414			

\$ 34 Decachlorobiphenyl CAS # 2051-24 3							
10 610	10 603	(0.007)	62563 0 01985	0 19849			

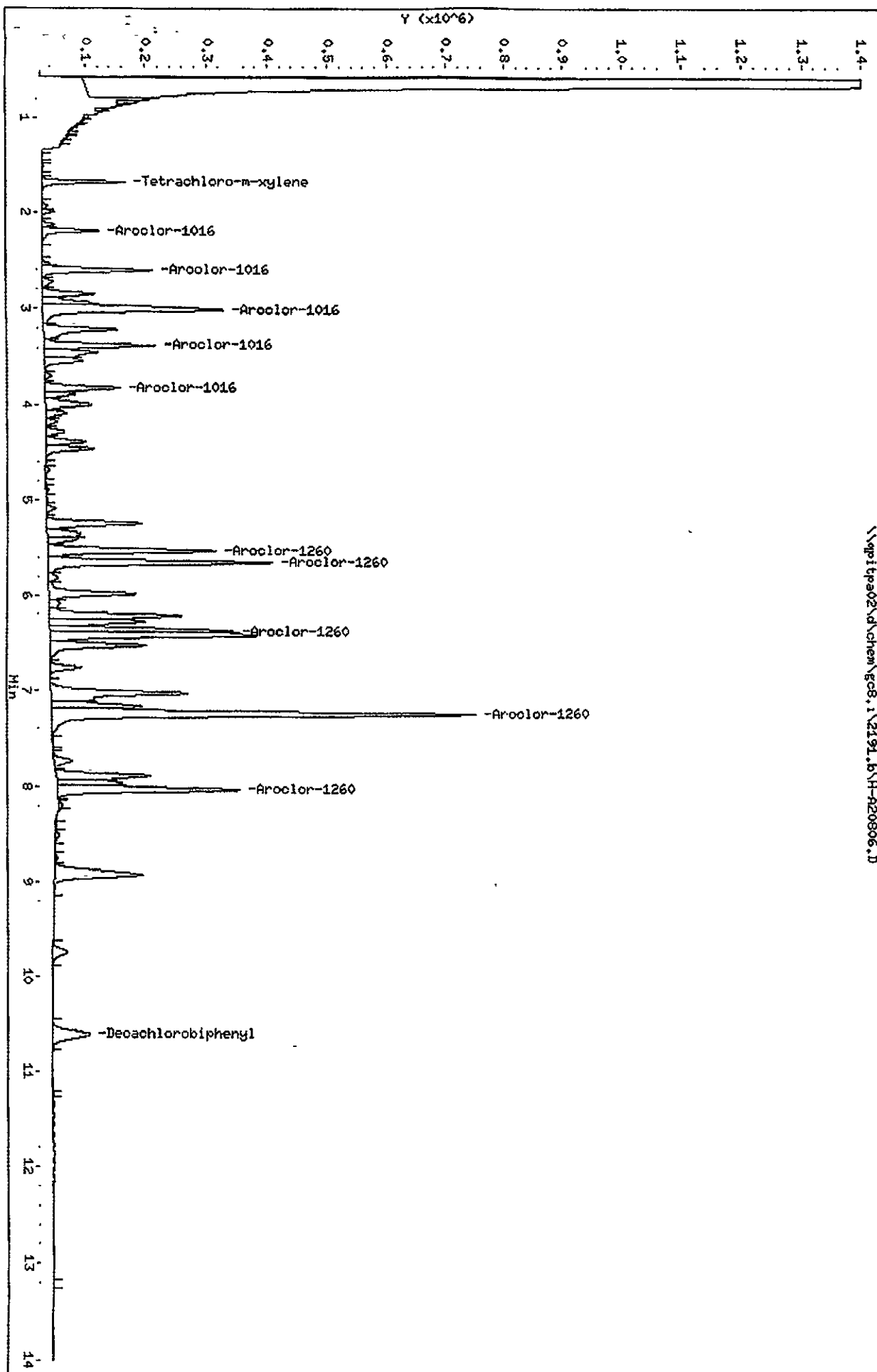
679 570

CONCENTRATIONS						
			ON-COL		FINAL	RATIO
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/L)	
..	=====	=====	=====	=====	=====	=====
36 Aroclor-1260					CAS # 11096-82-5	
5.528	5 525	(0 003)	281484	0.89339	8 9339 0 00- 0 00	0 00
5.652	5 650	(0.002)	375920	0 93342	9 3342 95.86- 135.86	0.00
6 377	6 366	(0.011)	308947	0.96826	9 6826 116 91- 156.91	0 00
7.243	7 240	(0 003)	710144	0.98166	9.8166 120 00- 160.00	0 00
8 038	8 031	(0.007)	304418	0.97320	9 7320 108.33- 148 33	0 00
Average of Peak Concentrations =					9.4999	

Data File: \\p1tpa02\chem\gc8.i\2191.b\H-A20806.D
Date: 24-MAR-2004 01:36
Client ID: LCD1500
Sample Info: DXTL21AD, 2191.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\p1tpa02\chem\gc8.i\2191.b\H-A20806.D



PCB
MISCELLANEOUS

Created: DE 3-19-01

Sequence Table (Front Injector):

Vial Information Part:



Line	Vial	Vial Information
====	====	=====
1	1	8082 ANALYSIS
2	2	190-111-7 610
3	3	190-111-8
4	4	190-111-9
5	5	190-111-10
6	6	190-111-11
7	7	190-111-12 615
8	8	190-111-13
9	9	190-111-14
10	10	190-112-1
11	11	190-112-2
12	12	190-120-10 620
13	13	190-120-11
14	14	190-120-12
15	15	190-120-13
16	16	190-120-14
17	17	150168002 625
18	18	150168002S
19	19	150168002D
20	20	140122001
21	21	140122002
22	22	140122003 630
23	23	140122004
24	24	150161001
25	25	150161002

Line	Vial	Vial Information	679	575
====	====	=====		
26	26	150161003		
27	27	150161004 635		
28	28	150161005		
29	29	150161012		
30	30	150161013		
31	31	150161014		
32	32	150304001 640		
33	33	190-111-13		
34	34	608BLK3		
35	35	1248#1		
36	36	1248#2		
37	37	1248#3 645		
38	38	1248#4		
39	39	1248#5		
40	40	1248#6		
41	41	1248#7		
42	42	1248#8 650		
43	43	1248#9		
44	44	190-111-13		
45	45	1660#1		
46	46	1660#2		
47	47	1660#3 655		
48	48	1660#4		
49	49	1660#5		
50	50	1660#6		
51	51	1660#7		
52	52	1660#8 660		
53	53	1660#9		

Sequence: C:\HPCHEM\1\SEQUENCE\2191.S

679 576

Line	Vial	Vial Information

====

=====

54

54

190-111-13 *bbz*

Sequence Table (Back Injector):

No entries - empty table!

Created: DE 3-23-01

679 577

M

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	1	8082 ANALYSIS
2	2	190-111-7 761
3	3	190-111-8
4	4	190-111-9
5	5	190-111-10
6	<u>6</u>	190-111-13 765
7	7	200146001
8	8	200146003
9	9	200146004
10	<u>10</u>	200146005
11	11	200146006 770
12	<u>12</u>	200146008
13	<u>13</u>	200146009
14	14	200146010
15	<u>15</u>	200146012
16	16	200146013 775
17	17	200146014
18	18	200146015
19	19	200146016
20	20	200146018
21	21	200146BLK 780
22	22	200146LCS
23	23	200146LCD
24	24	160148001
25	25	160148BLK

679 578

Line	Vial	Vial Information
====	====	=====
26	26	160148LCS 785
27	27	190-111-13
28	28	160148001S
29	29	160148001D
30	30	160148002
31	31	160148004 790
32	32	160148007
33	33	160148010
34	34	170114004
35	35	170114005
36	36	170114007 795
37	37	170114008
38	38	170114009
39	39	170114010
40	40	200111005
41	41	200111006 800
42	42	200111007
43	43	210184001
44	44	210167031
45	45	210184BLK
46	46	210184LCS 805
47	47	210184LCD
48	48	190-111-13
49	49	210167032
50	50	190151001
51	51	190151002 810
52	52	190151003
53	53	170114011

Line	Vial	Vial Information	679	579
====	====	=====		
54	54	190151BLKW		
55	55	190151LCSW		
56	56	190151LCDW 815		
57	57	190151004		
58	58	190151005		
59	59	190151005S		
60	60	190151005D		
61	61	190151006 820		
62	62	190151BLKS		
63	63	190151LCSS		
64	64	190151008		
65	65	190151010		
66	66	190151012 825		
67	67	190151BLKF		
68	68	190151LCSF		
69	69	190-111-13		
70	70	190151LCDF		
71	71	190-111-13 830		

Sequence Table (Back Injector):

No entries - empty table!

679 580

PSR024 3/22/01 13 31:42 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY YUSHINSC

METHOD QH PCBs (8082)

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX	QTY	QTY	
		CNTR#							DESCRIPTION	RCVD	REQD	
14A	DXPLT-1-AA	___	322376	364323	I-09-QH	C1C210167	031		WATER	0	2	1
14A	DXPLX-1-AA	___	322377	364323	I-09-QH	C1C210167	032		WATER	0	2	1
14A,CLP1	DXPK3-1-AE	___	322375	399411	I-09-QH	C1C210184	001		WATER	0	13	1

Used 1 liter per sample,
and empty bottle was
thrown away!

P. Yushinski
3-22-01

RELINQUISHED BY

RECEIVED BY

DATE/TIME

P. Yushinski
P. Yushinski

P. Yushinski
P. Yushinski

3-22-01 1540
3-22-01 1800

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

HERBICIDE DATA

679 582

HERBICIDE
QC SUMMARY

2E
WATER PESTICIDE SURROGATE RECOVERY

679 583

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C210184

GC Column(1): RTX-50

ID: 0.53 (mm)

	EPA SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	S2 1 %REC #	S2 2 %REC #	S3 1 %REC #	S3 2 %REC #	TOT OUT
01	LCS2391	76						0
02	LCD2391	69						0
03	PBLK2391	75	72					0
04	DF/24-B/1079	912D	349D					0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
(53-119)

S1 = DCAA

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

679 584

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C230000

WO #: DXWV51AC

BATCH: 1082391

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,4-D	16.0	11.5	72	46 - 124	
2,4,5-TP (Silvex)	4.00	2.73	68	53 - 127	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIIT

SDG No:

Lot #: C1C230000

WO #: DXWV51AD

BATCH: 1082391

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,4-D	16.0	9.47	59	46 - 124	
2,4,5-TP (Silvex)	4.00	2.54	64	53 - 127	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

679 586

4C

EPA SAMPLE NO.

PESTICIDE METHOD BLANK SUMMARY

PBLK2391

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: C1C210184
Lab Sample ID: DXWV51AA Lab File ID: A-A20371
Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SW846 8151A
Sulfur Cleanup (Y/N) N Date Extracted: 03/23/01
Date Analyzed (1): 03/27/01 Date Analyzed (2): 03/27/01
Time Analyzed (1): 2100 Time Analyzed (2): 2131
Instrument ID (1): GC1 Instrument ID (2): GC1
GC Column (1): RTX-50 ID: 0.53(mm) GC Column (2): DB1701 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	LCS2391	DXWV51AC	03/27/01	
02	LCD2391	DXWV51AD	03/27/01	
03	DF/24-B/1079	DXPK31CC	03/28/01	03/28/01
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

HERBICIDE
SAMPLE DATA

679 588

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C210184 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/21/01

Work Order: DXPK31CC

Date Extracted: 03/23/01

Dilution factor: 10

Date Analyzed: 03/28/01

Moisture %: NA

QC Batch: 1082391

Client Sample Id: DF/24-B/1079/IDW/006

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
94-75-7	2,4-D		40	U
93-72-1	2,4,5-TP (Silvex)		2.7	J P

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20421.D
 Report Date: 28-Mar-2001 13:13

679 589

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20421.D
 Lab Smp Id: DXPK31CC Client Smp ID: DF/24-B/1079/IDW/00
 Inj Date : 28-MAR-2001 10:57
 Operator : 010139 Inst ID: gc1.i
 Smp Info : DXPK31CC,2151A.b
 Misc Info : 210184001
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 28-Mar-2001 13:11 morganw Quant Type: ESTD
 Cal Date : 15-MAR-2001 19:05 Cal File: A-B20280.D
 Als bottle: 3
 Dil Factor: 10.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC003

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	10.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	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	5.086	5.077	0.009	8911260	0.82864	1657
2 DCAA	13.133	13.083	0.050	811667	0.01744	34.89(R)
3 DICAMBA	13.650	13.680	-0.030	418761	0.01029	20.57
4 MCPP	14.190	14.123	0.067	508696	13.6616	27320
5 MCPA	15.026	14.998	0.028	259201	5.12675	10250
6 DICHLOROPROP	16.164	16.139	0.025	67060	0.00787	15.74
7 2,4-D	Compound Not Detected.					
8 PENTACHLOROPHENOL	18.016	18.066	-0.050	159808	0.00138	2.766
9 2,4,5-TP(SILVEX)	19.746	19.767	-0.021	553938	0.00604	12.08
10 2,4,5-T	20.491	20.538	-0.047	80263	<0.0	1.655
11 2,4-DB	21.115	21.118	-0.003	117797	0.00813	16.25
12 DINOSEB	21.795	21.824	-0.029	381824	0.00411	8.225

679 590

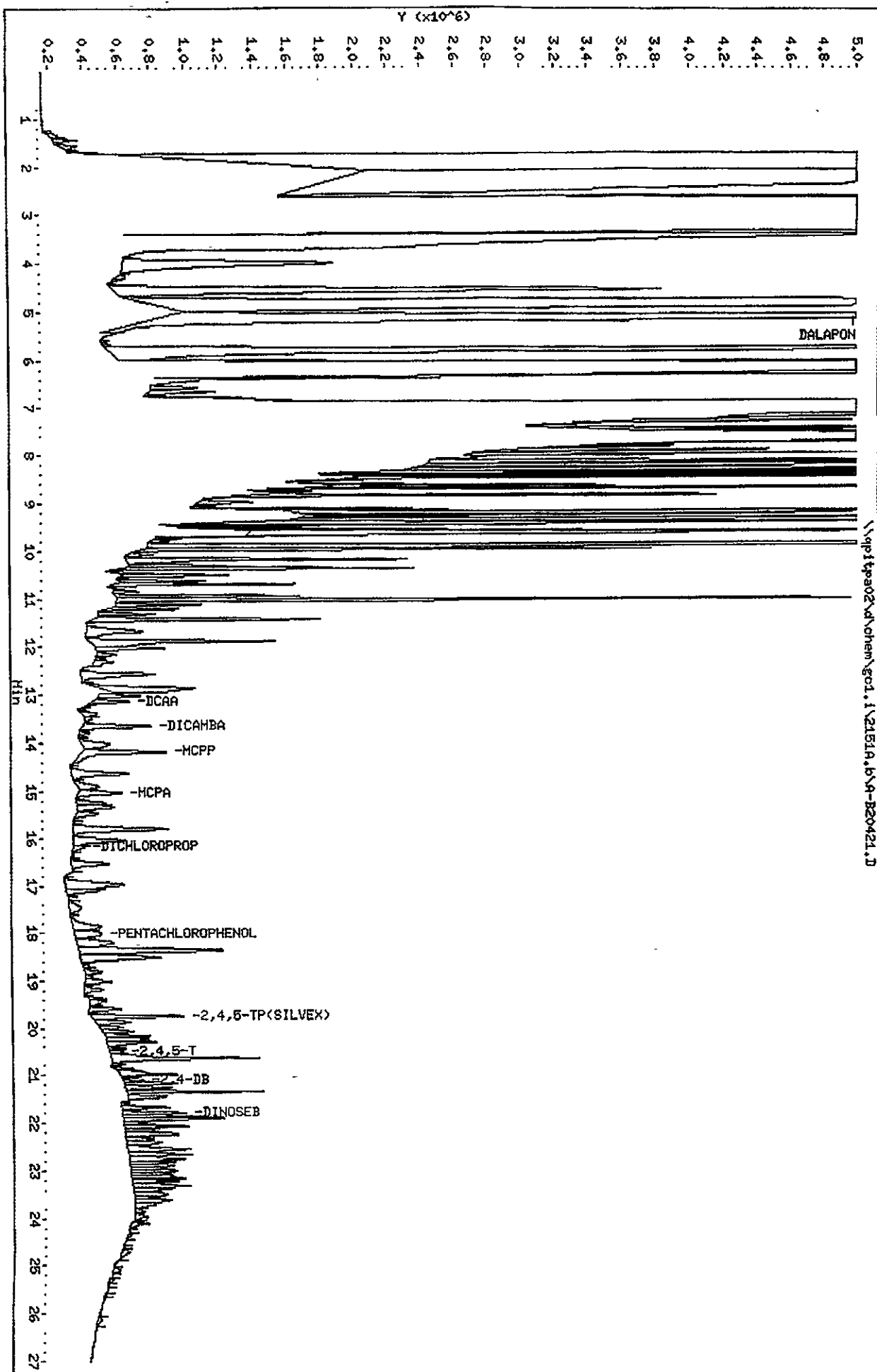
Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20421.D
Report Date: 28-Mar-2001 13:13

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\sp1p02\chem\g01.1\2151A.b\A-B20421.D
 Date: 28-MAR-2001 10:57
 Client ID: DF/24-B/1079/IDM/00
 Sample Info: DPK31CC, 2151A.b
 Volume Injected (ul): 1.0
 Column phase: DB1701

Instrument: g01.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20386.D
Report Date: 28-Mar-2001 13:04

679 592

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20386.D
Lab Smp Id: DXPK31CC Client Smp ID: DF/24-B/1079/IDW/00
Inj Date : 28-MAR-2001 10:26 Inst ID: gc1.i
Operator : 010139
Smp Info : DXPK31CC, 2151.b
Misc Info : 210184001
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Meth Date : 28-Mar-2001 12:58 MorganW Quant Type: ESTD
Cal Date : 15-MAR-2001 18:34 Cal File: A-A20279.D
Als bottle: 3
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC003

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	10.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	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						
2 DCAA	14 405	14.445	-0.040	2850516	0.04558	91.15(R)
3 MCPP	15 068	15 080	-0.012	379573	4 22995	8460
4 DICAMBA	15 219	15.262	-0 043	55750	0.00132	2.642
5 MCPA						
6 DICHLOROPROP						
7 2,4-D						
8 PENTACHLOROPHENOL	19 988	19 976	0 012	583885	0.00216	4.330
9 2,4,5-TP(SILVEX)	20 351	20 383	-0 032	473766	0 00137	2.749(M)
10 2,4,5-T	21 151	21 160	-0 009	1572765	0 00524	10 48
11 DINOSEB	21.521	21 476	0.045	801499	0.00325	6 510
12 2,4-DB	21.632	21 630	0.002	668989	0.01833	36.65

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20386.D
Report Date: 28-Mar-2001 13:04

679 593

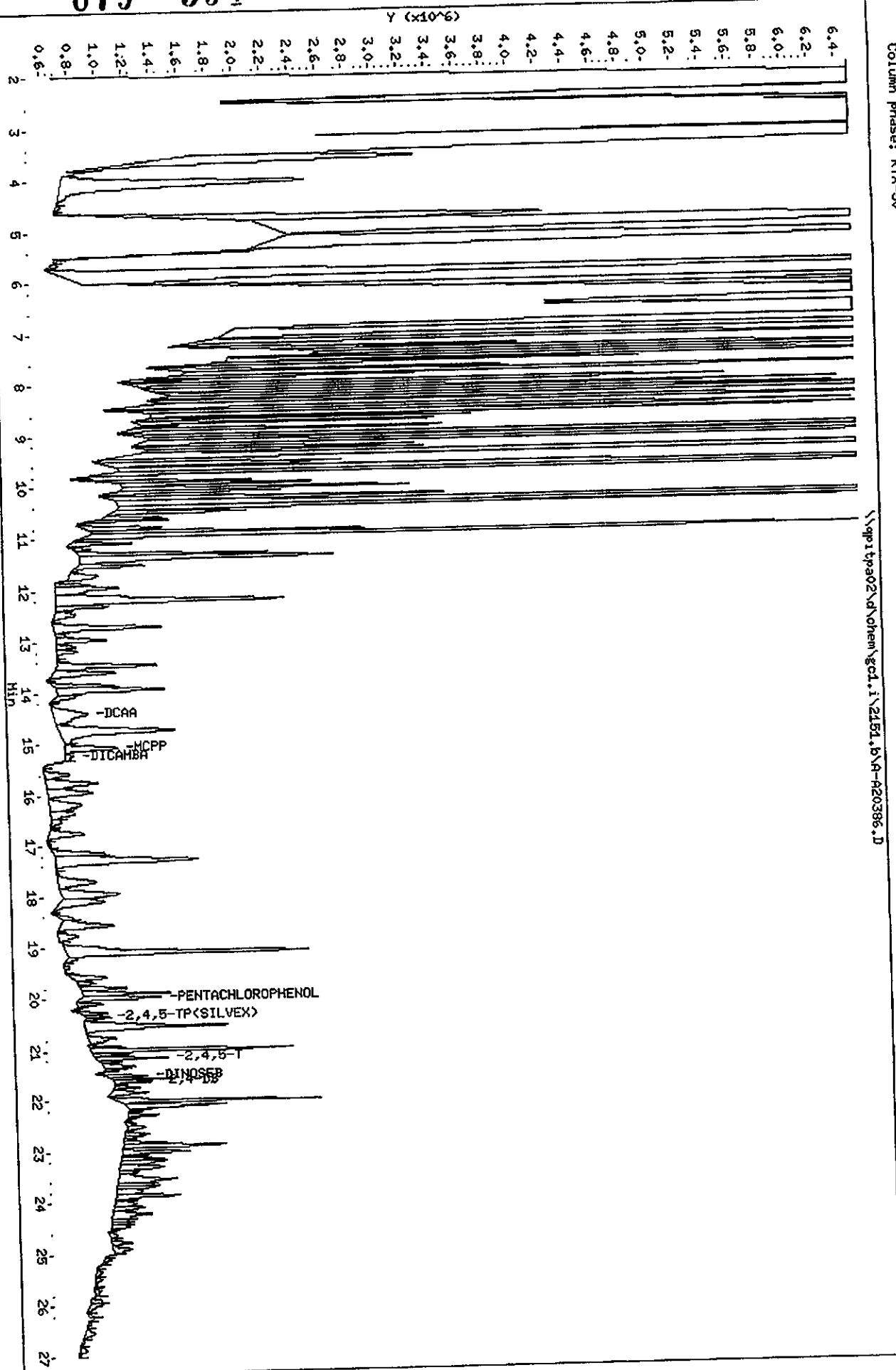
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

679 594

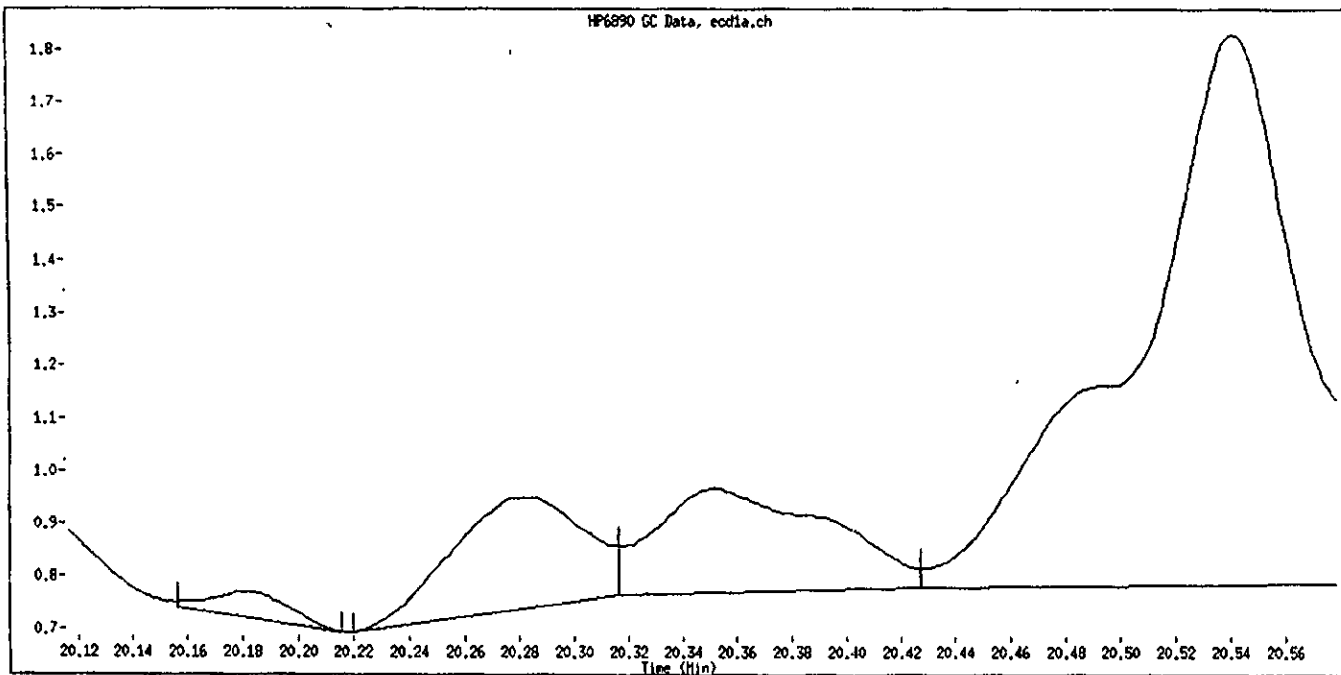
Data File: \\pp1tpa02\chem\gc1.i\2151.b\A-A20386.D
 Date : 28-MAR-2001 10:26
 Client ID: DF/24-B/1079/IDM/00
 Sample Info: DPK34CC, 2151.b
 Volume Injected (uL): 1.0
 Column Phase: RTX-50

Instrument: gc1.i
 Operator: 010139
 Column diameter: 0.53

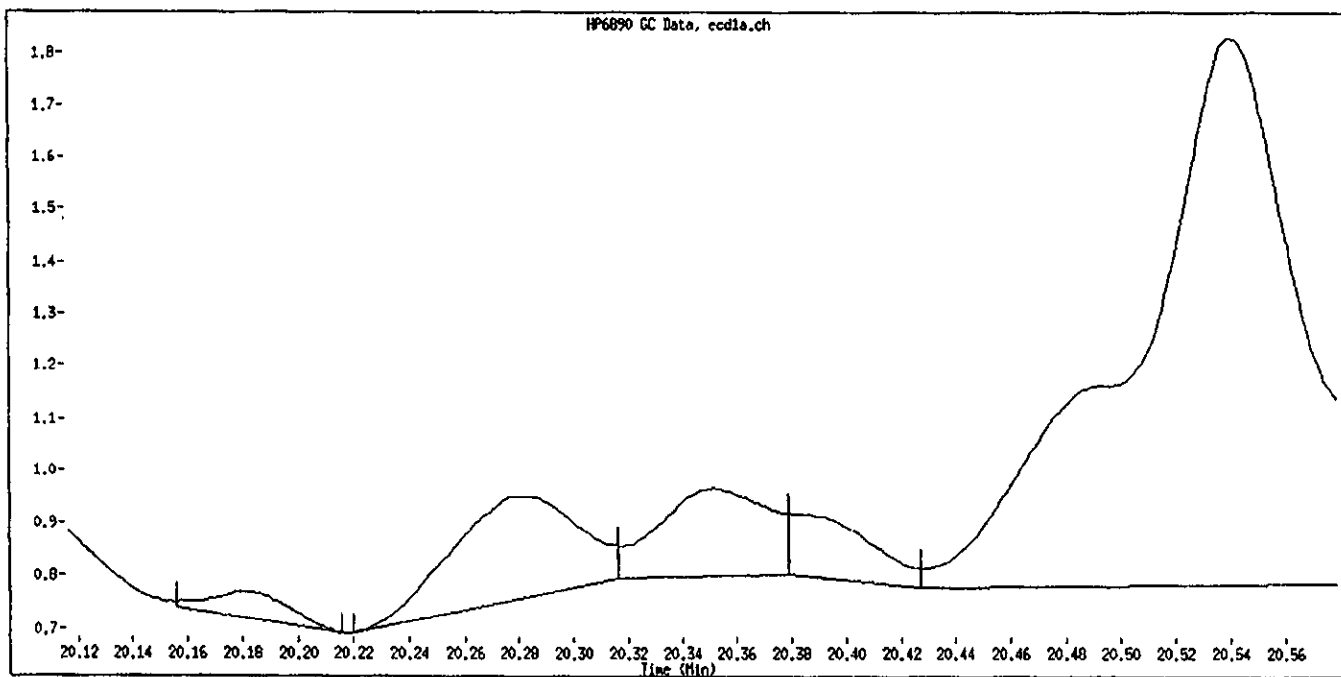


Data File Name. A-A20386 D
Inj Date and Time 28-MAR-2001 10 26
Instrument ID. gcl 1
Client ID: DF/24-B/1079/IDW/00
Compound Name: 2,4,5-TP(SILVEX)
CAS #: 93-72-1
Report Date 03/28/2001

679 595



Original Integration



Manual Integration

Manually Integrated By: MorganW
Manual Integration Reason: Unknown

679 596

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

DF/24-B/1
079/IDW/00

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C210184

Lab Sample ID: DXPK31CC

Date(s) Analyzed: 03/28/01 03/28/01

Instrument ID (1): GC1

Instrument ID (2): GC1

GC Column(1): RTX-50

ID: 0.53(mm)

GC Column(2): DB1701

ID: 0.53(mm)

ANALYTE =====	COL =====	RT =====	RT WINDOW		CONCENTRATION =====	%D =====
			FROM =====	TO =====		
2,4,5-TP (SILVEX)	1	20.35	20.33	20.43	2.749	
	2	19.75	19.70	19.84	12.08	339.4
~~2,4,5-T~~	~~1~~	~~21.15~~	~~21.11~~	~~21.21~~	~~10.48~~	
	2	20.49	20.47	20.61	1.655	533.2
2,4-DB	1	21.63	21.58	21.68	36.65	
	2	21.12	21.05	21.19	16.25	125.5
DICAMBA	1	15.22	15.21	15.31	2.642	
	2	13.65	13.61	13.75	20.57	678.6
DINOSEB	1	21.52	21.43	21.53	6.510	
	2	21.80	21.75	21.89	8.225	26.3
MCPD	1	15.07	15.03	15.13	8460	
	2	14.19	14.05	14.19	27320	222.9
PENTACHLOROPHENOL	1	19.99	19.93	20.03	4.330	
	2	18.02	18.00	18.14	2.766	56.5
	1					
	2					

679 597

HERBICIDE
CALIBRATION DATA

679 598

6D
HP18901A
RTX-SD

Report Date : 27-Mar-2001 14:00

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Quant Method : ESTD Target Version : 4.04
 Last Update : 27-Mar-2001 13:59 Number of Cpnds : 12
 Data Type : GC MULTI COMP

Global Integrator : Falcon
 Chromat Events

Values

 Initial:Start Threshold 376.000000
 Initial:End Threshold 188.000000
 Initial:Area Threshold 3760.000000
 Initial:P-P Resolution 1.000000
 Initial:Bunch Factor 9.000000
 Initial:Negative Peaks ON
 Initial:Tension 0.200000

Compound	RT	RT Window	RF
1 DALAPON	5.315	5.265-5.365	1.33e+007
\$ 2 DCAA	14.451	14.401-14.501	6.25e+007
3 MCPP	15.082	15.032-15.132	8.97e+004
4 DICAMBA	15.263	15.213-15.313	4.22e+007
5 MCPA	16.426	16.376-16.476	1.06e+005
6 DICHLOROPROP	17.424	17.374-17.474	9.55e+006
7 2,4-D	19.066	19.016-19.116	1.63e+007
8 PENTACHLOROPHENOL	19.977	19.927-20.027	2.70e+008
9 2,4,5-TP(SILVEX)	20.385	20.335-20.435	3.45e+008
10 2,4,5-T	21.162	21.112-21.212	3.00e+008
11 DINOSEB	21.479	21.429-21.529	2.46e+008
12 2,4-DB	21.632	21.582-21.682	3.65e+007

FINAL PAGE

PART I

ADMINISTRATIVE RECORD

PART I

FINAL PAGE